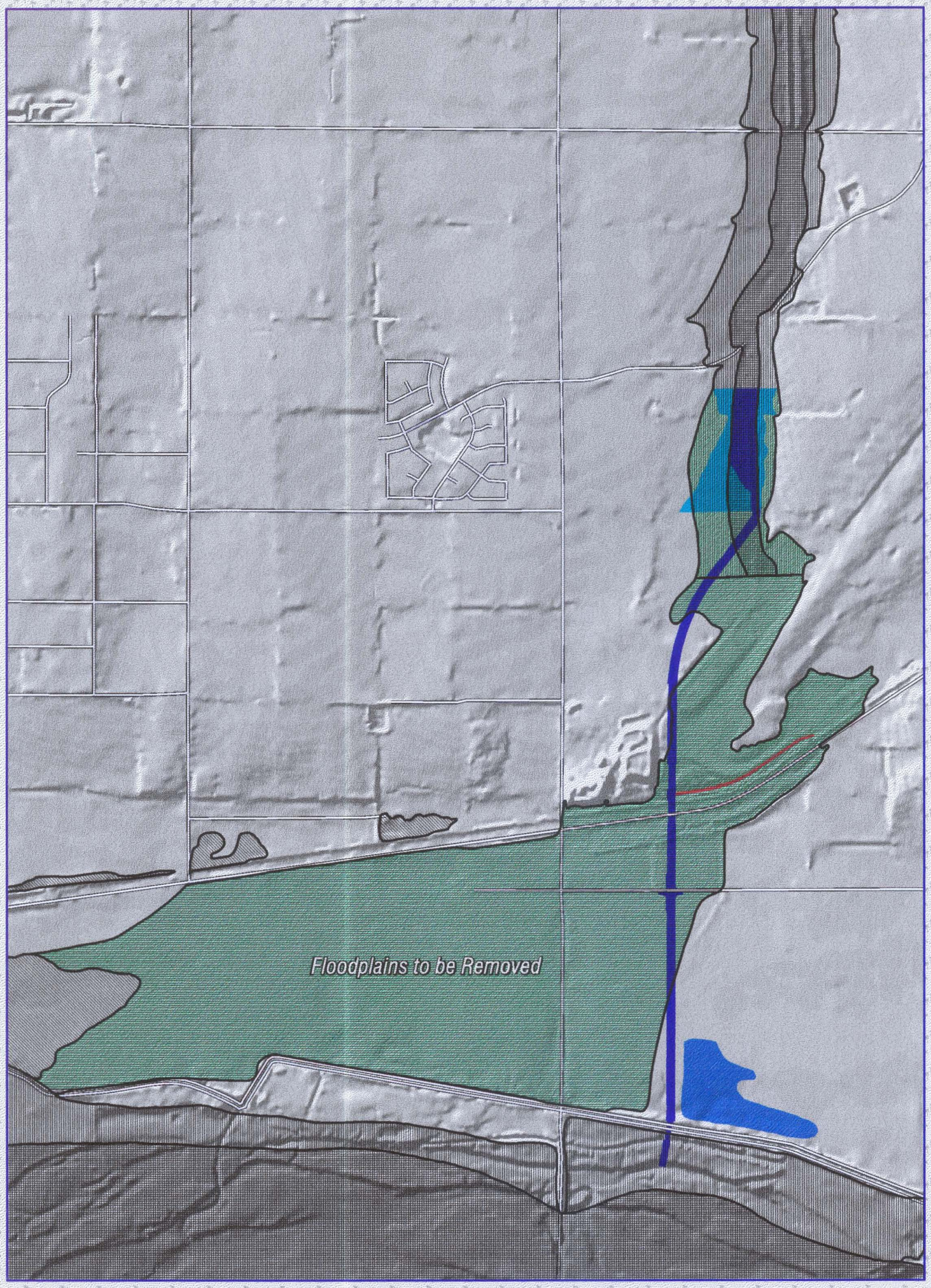
Bullard Wash Channel Improvements

City of Goodyear, Maricopa County, Arizona

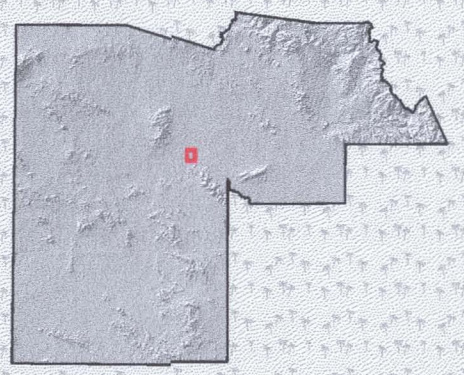
TECHNICAL DATA NOTEBOOK

VOLUME 1 OF 2

FCD #95-39



Location within Maricopa County



FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
2801 West Durango
Phoenix, Arizona 85009
(602) 506-1501
http://www.fcd.maricopa.gov/msmain.htm

THE CITY OF GOODYEAR
112 E. Western
Goodyear, Arizona 85338
(623) 932-3494
http://www.ci.goodyear.az.us/

FLOOD CONTROL DISTRICT of MARICOPA COUNTY

CITY OF GOODYEAR ARIZONA

Federal Emergency Management Agency

Washington, D.C. 20472

OCT 15 1999

FLOOD CONTROL DISTRICT
RECEIVED
OCT 18 1999
REMARKS BIZ

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 99-09-862R

The Honorable Bill Arnold
Mayor, City of Goodyear
119 North Litchfield Road
Goodyear, AZ 85338

Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

Community: City of Goodyear, Arizona
Community No.: 040046

104

Dear Mayor Arnold:

This responds to a request that the Federal Emergency Management Agency (FEMA) comment on the effects that a proposed project would have on the effective Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for Maricopa County, Arizona and Incorporated Areas (the effective FIRM and FIS report for your community), in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated May 10, 1999, Bing Zhao, Ph.D., P.E., Civil Engineer, Engineering Division, Flood Control District of Maricopa County, requested that FEMA evaluate the effects that new hydrology, construction of the Union Pacific Railroad and State Route 85 bridges over Bullard Wash, channelization along Bullard Wash from Lower Buckeye Road to the confluence with the Gila River, and channelization along an unnamed tributary to Bullard Wash would have on the flood hazard information shown on the effective FIRM and FIS report.

All data required to complete our review of this request for a Conditional Letter of Map Revision (CLOMR) were submitted with letters from Dr. Zhao.

Because this project shows the effects of a detailed hydrologic or hydraulic study conducted by a Federal, State, or local agency to replace an approximate study conducted by FEMA, fees were not assessed for the review.

We have completed our review of the submitted data and the flood data used to prepare the effective FIRM for your community. We believe that, if the proposed project is constructed as shown on the plans entitled "Bullard Wash Channel Improvement Project, Project No. 4700731," Sheets 1 through 81, prepared by Sverdrup Corporation, dated September 18, 1998, and the data listed below are received, a revision to the FIRM would be warranted.

As a result of the proposed project, the elevations of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) and the widths of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, and the regulatory floodway will decrease along Bullard Wash from approximately 1,600 feet upstream of Lower Buckeye Road to the confluence with the Gila River. The maximum decrease in base flood elevation (BFE), approximately 4 feet, will occur approximately 2,750 feet downstream of Lower Buckeye Road. The maximum decrease in SFHA width, approximately 8,900 feet, will occur just upstream of the confluence with the Gila River. The maximum decrease in floodway width, approximately 300 feet, will occur approximately 2,000 feet downstream of Lower Buckeye Road. The base flood will be contained in Bullard Wash Channel from Lower Buckeye Road to the confluence with the Gila River. A floodwater ponding area will be added to the FIRM just northeast of the confluence with the Gila River.

Upon completion of the project, your community may submit the data listed below and request that we make a final determination on revising the effective FIS report and FIRM.

- Detailed application and certification forms, which were used in processing this request, must be used for requesting final revisions to the maps. Therefore, when the map revision request for the area covered by this letter is submitted, Form 1, entitled "Revision Requester and Community Official Form," must be included. (A copy of this form is enclosed.)

- The detailed application and certification forms listed below may be required if as-built conditions differ from the preliminary plans. If required, please submit new forms (copies of which are enclosed) or annotated copies of the previously submitted forms showing the revised information.

  Form 3, entitled "Hydrologic Analysis Form"

  Form 4, entitled "Riverine Hydraulic Analysis Form"

  Form 5, entitled "Riverine/Coastal Mapping Form"

  Form 6, entitled "Channelization Form"

  Form 7, entitled "Bridge/Culvert Form"

  Hydraulic analyses, for as-built conditions, of the base flood and the floodway must be submitted with Form 4, and a topographic work map showing the revised floodplain and floodway boundaries must be submitted with Form 5.

- Effective March 1, 1999, FEMA revised the fee schedule for reviewing and processing requests for conditional and final modifications to published flood information and maps. In accordance with this schedule, the fee for your map revision request will be $3,400 and must be received before we can begin processing your request. Payment of this fee shall be made in the form of a check or money order, made payable in U.S. funds to the National Flood Insurance Program, or by credit card. The payment must be forwarded to the following address:

  Federal Emergency Management Agency
  Fee-Collection System Administrator
  P.O. Box 3173
  Merrifield, VA 22116-3173

- As-built plans, certified by a registered professional engineer, of all proposed project elements

- Community acknowledgment of the map revision request

- Certification that all fill placed in the currently effective base floodplain and below the proposed BFE is compacted to 95 percent of the maximum density obtainable with the Standard Proctor Test method issued by the American Society for Testing and Materials (ASTM Standard D-698) or an acceptable equivalent method for all areas to be removed from the base floodplain

- A copy of the public notice distributed by your community stating its intent to revise the floodway, or a statement by your community that it has notified all affected property owners and affected adjacent jurisdictions

- A letter stating that your community will adopt and enforce the modified floodway, OR, if the State has jurisdiction over either the floodway or its adoption by your community, a copy of your community's letter to the appropriate State agency notifying it of the floodway modification and a copy of the letter from that agency stating its approval of the modification

- The proposed project relies on Dysart Drain to divert flow from approximately the upper one-third of the watershed away from the project site. FEMA issued a CLOMR for Dysart Drain on March 27, 1996, that requested several items, including a hydraulic analysis and as-built plans, certified by a registered professional engineer, for Dysart Drain. A copy of this CLOMR is enclosed. Please submit the information requested in the March 27 CLOMR, or show the effects of any additional flow on the project site.

- The width of the base floodplain shown on the submitted work map entitled "Bullard Wash Channel Improvements," prepared by the Flood Control District of Maricopa County, dated May 1, 1999, does not match the base floodplain width from Cross Section 119+43 to Cross Section 122+00 in the submitted HEC-RAS hydraulic computer model. Please make appropriate changes to resolve the discrepancies.

- The effective base floodplain extends approximately 1,200 feet upstream of the proposed inlet of the proposed East Tributary Channel. Please submit a hydraulic analysis for the reach upstream of the proposed East Tributary Channel and a work map that shows the revised SFHA boundary delineations, or information to demonstrate that the flow will not create an SFHA with average depths greater than or equal to 1.0 foot.

After receiving appropriate documentation to show that the project has been completed, FEMA will initiate a revision to the FIRM and FIS report. Because the BFEs would change as a result of the project, a 90-day appeal period would be initiated, during which community officials and interested persons may appeal the revised BFEs based on scientific or technical data.

The basis of this CLOMR is, in whole or in part, a channel-modification project. NFIP regulations, as cited in Paragraph 60.3(b)(7), require that communities assure that the flood-carrying capacity within the altered or relocated portion of any watercourse is maintained. This provision is incorporated into your community's existing floodplain management regulations. Consequently, the ultimate responsibility for maintenance of the modified channel rests with your community.

This CLOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development, and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in San Francisco, California, at (415) 923-7177. If you have any technical questions regarding this

CLOMR, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,

Max H. Yuan, P.E., Project Engineer
Hazards Study Branch
Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

Enclosure(s)

cc: Mr. Ron Nevitt
Program Manager
NFIP Program
Flood Control District of Maricopa County

Bing Zhao, Ph.D., P.E.
Civil Engineer
Engineering Division
Flood Control District of Maricopa County

Mr. Harvey Krauss
Community Development Director
City of Goodyear

BULLARD WASH CHANNEL IMPROVEMENTS

City of Goodyear, Maricopa County, Arizona

TECHNICAL DATA NOTEBOOK

VOLUME 1 OF 2

FCD #95-39

Bing Zhao, Ph.D.

Registered Professional Engineer (Civil)
CERTIFICATE NO
32345
BING
ZHAO
Date Signed 5/19/99
ARIZONA U.S.A.

Prepared by:

Engineering Division
Flood Control District of Maricopa County
2801 West Durango
Phoenix, AZ 85009
(602) 506-1501

May 10, 1999

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Registered Professional Engineer (Civil)
CERTIFICATE NO
32345
BING
ZHAO
Date Signed 5/10/99
ARIZONA U.S.A.

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1.0 INTRODUCTION

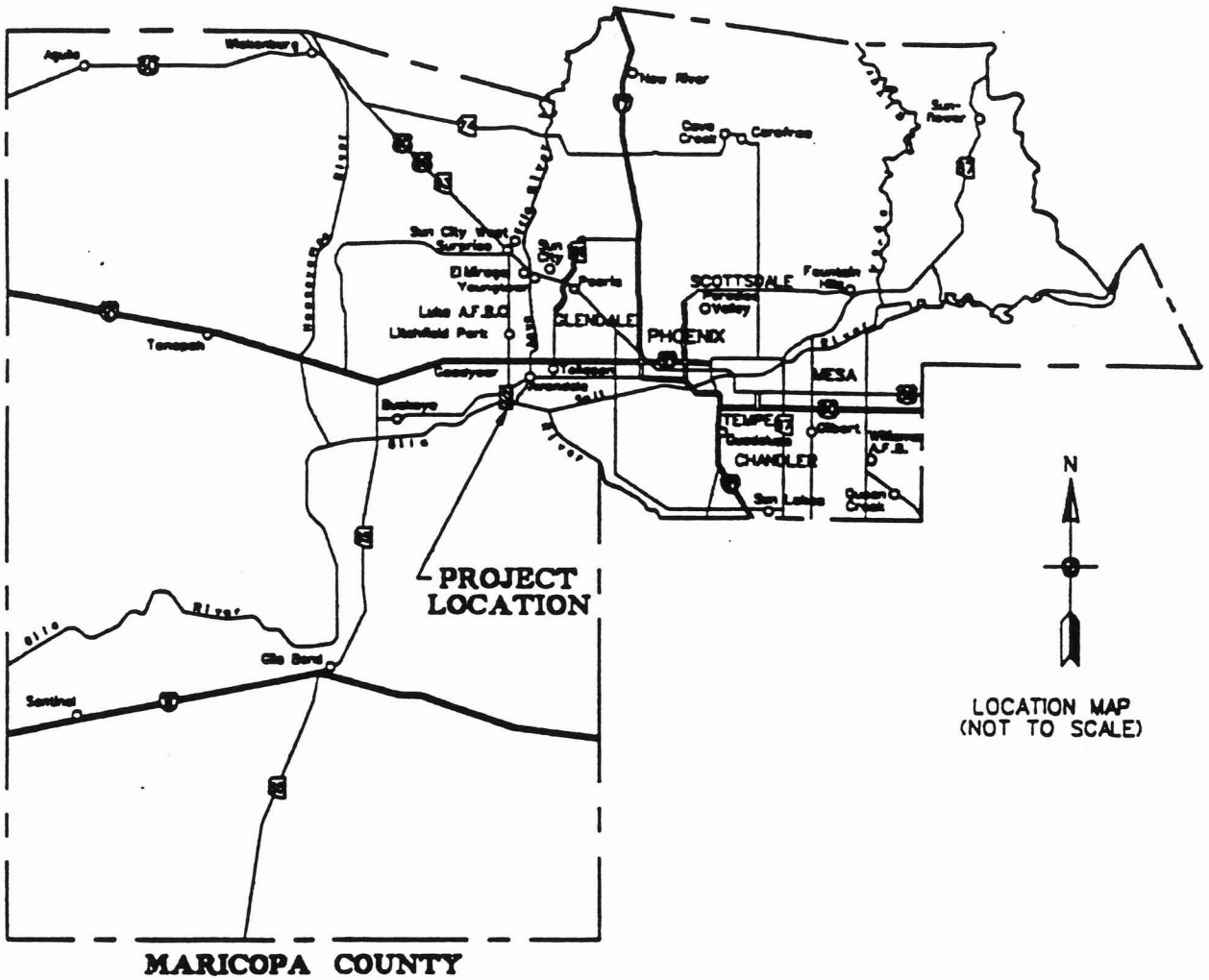
1.1 Purpose of Submittal

The purpose of this submittal is to provide Federal Emergency Management Agency (FEMA) documentations on the proposed Bullard Wash Channelization to obtain a Conditional Letter of Map Revision (CLOMR) from FEMA.

1.2 Location of Study

The proposed channelization of Bullard Wash is between the Gila River and Lower Buckeye Road. The project area lies entirely within the incorporated limits of the City of Goodyear between Sarival Road on the west, Bullard Avenue on the east, Yuma Road on the north, and the Gila River on the south (Figures 1, 2 and 3). It is within T1N R1W (sections 17, 18, 19, 20, 29, and 30). Bullard Wash is approximately eight miles long, and originates just south of Luke Air Force Base near Bethany Home Road (Figure 4). The wash continues south between Estrella Parkway (formerly Reems Road) and Bullard Avenue. The outfall of Bullard Wash has been encroached upon, and in some locations almost completely obliterated due to farming activities over the years. The Bullard Wash Channel ends near the Maricopa County Highway Route 85 (MC 85) - Estrella Parkway intersection, with only a minor roadside ditch and 42" cmp outfall pipe to convey low flows to the Gila River.

BULLARD WASH OUTFALL FEASIBILITY STUDY
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
(FCD 94-06)



MARICOPA COUNTY

Figure 1 Location Map

Source: Bullard Wash Outfall Feasibility Study

BULLARD WASH OUTFALL FEASIBILITY STUDY
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
(FCD 94-06)

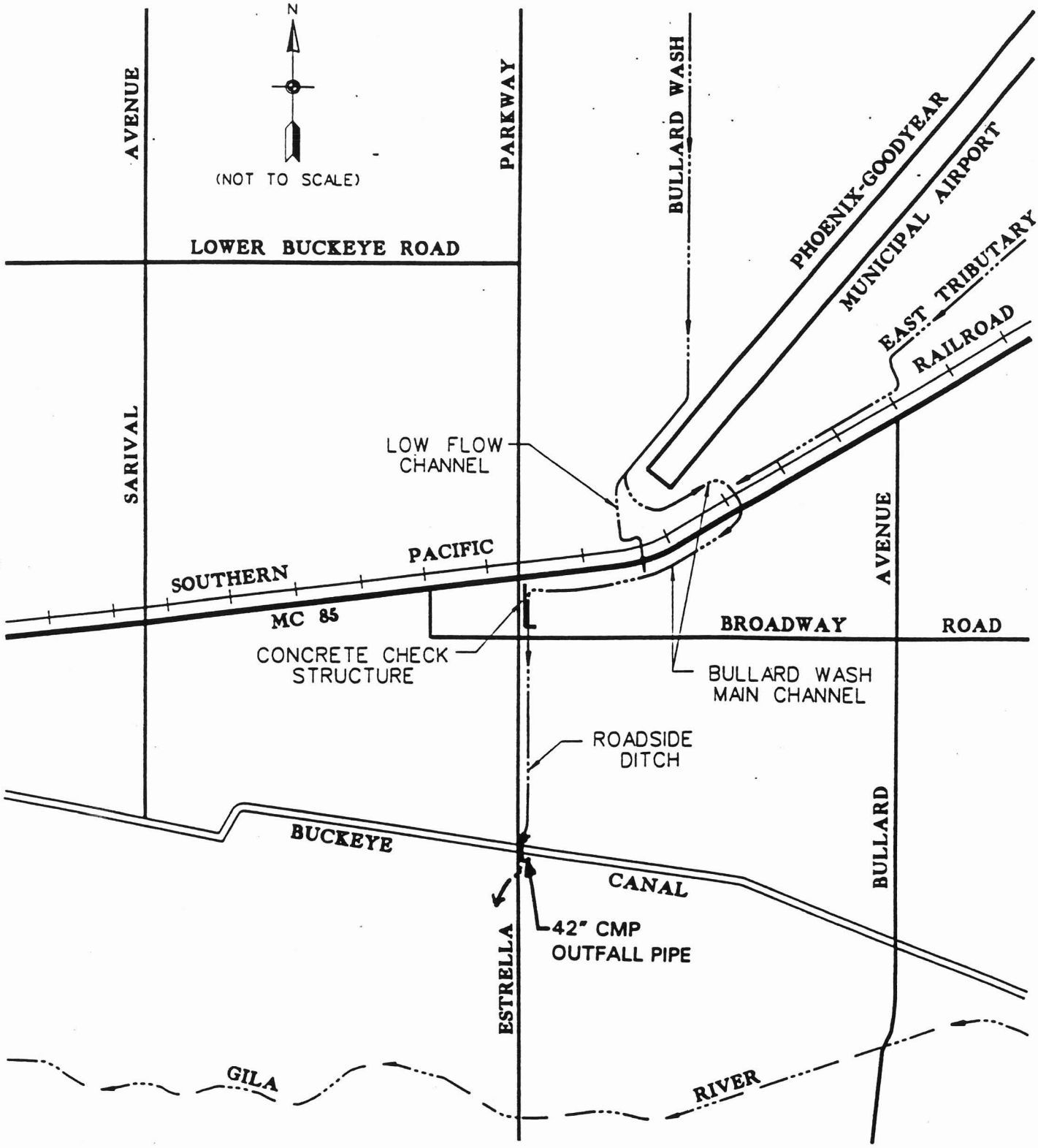


Figure 2 Vicinity Map

Source: Bullard Wash Outfall Feasibility Study

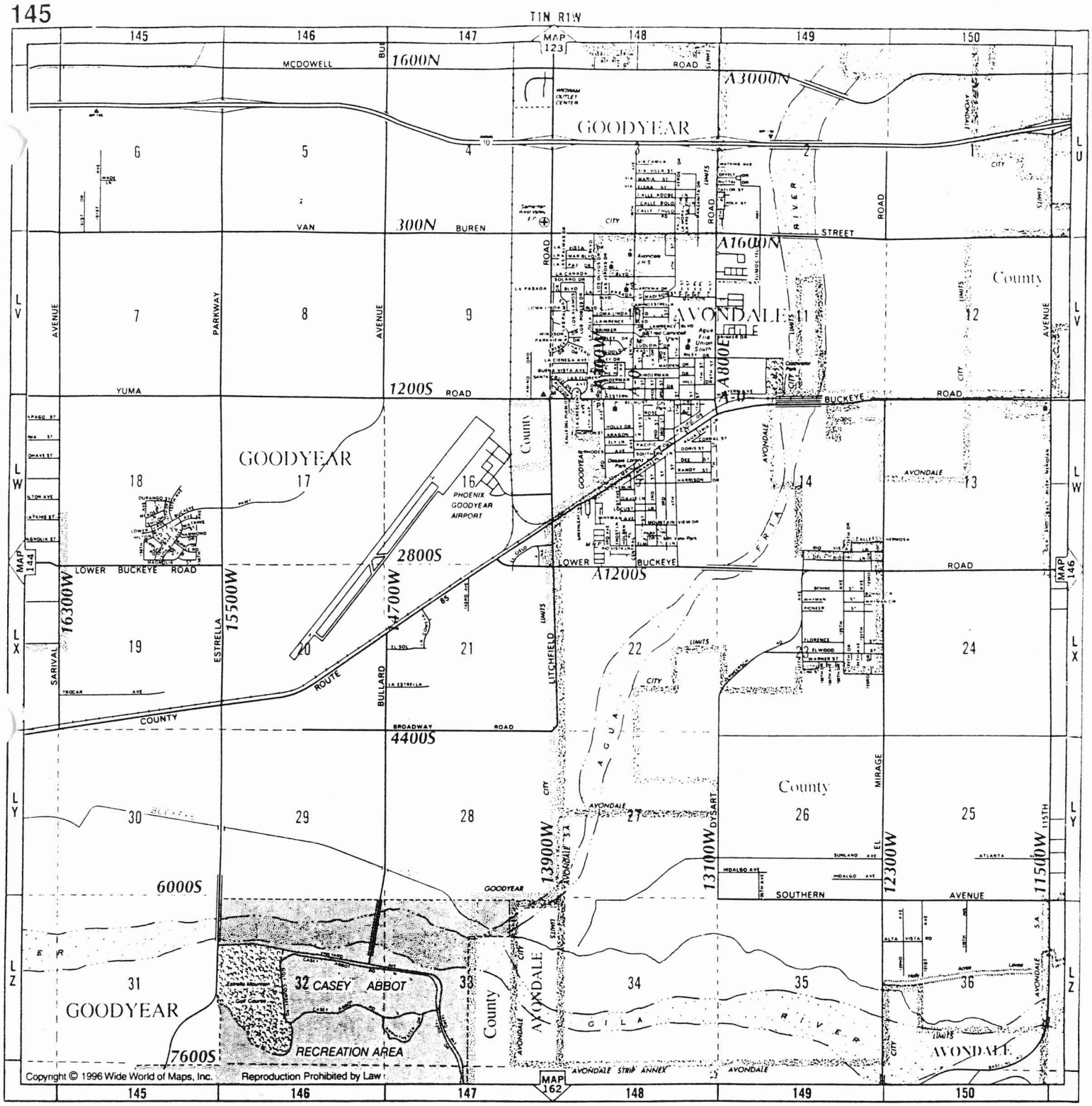


Figure 3 Road Map

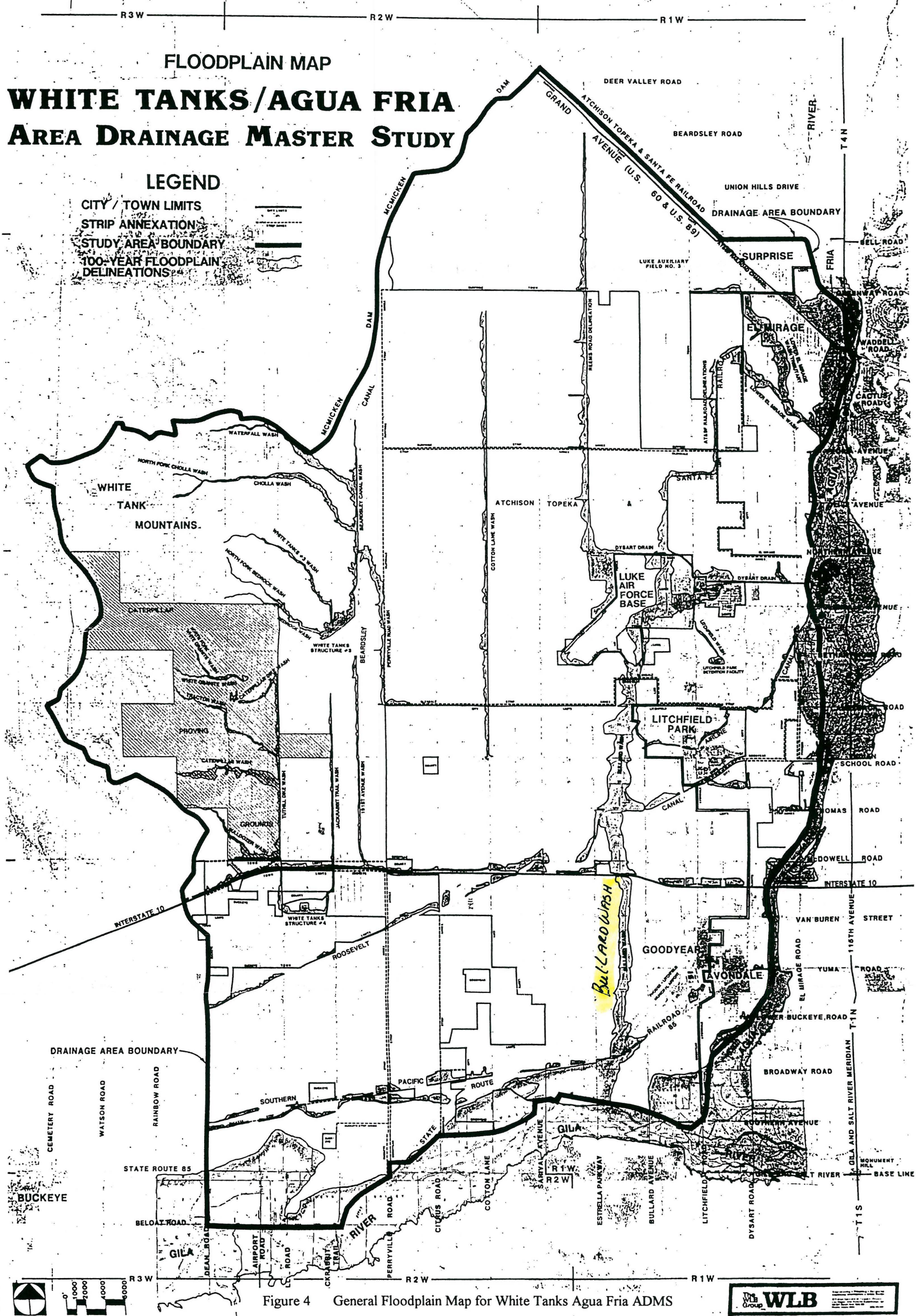


Figure 4 General Floodplain Map for White Tanks Agua Fria ADMS

1.3 Literature Review

The flooding problems of the area have been previously studied in the *White Tanks/Agua Fria Area Drainage Master Study (ADMS)* prepared by WLB (1992). The current effective FIS maps were generated from the White Tanks/Agua Fria ADMS (1992). Figure 4 shows a general floodplain map from the White Tanks/Agua Fria ADMS (1992). Figure 5 shows the drainage map from the White Tanks/Agua Fria ADMS (1992).

The *Bullard Wash Outfall Feasibility Study, Final Design Concept Report for Recommended Alternative* was prepared for the Flood Control District of Maricopa County (FCDMC) by Stanley Consultants, Inc. (Stanley) and submitted in September 1995. That Report documented a recommended alternative for the Bullard Wash Outfall Channel. Subsequent to the Stanley's Report, the FCDMC has selected a horizontal alignment of the channel and type of channel lining, including typical cross-sections, with inputs from the City of Goodyear, Maricopa County Department of Transportation (MCDOT), and Sverdrup Civil, Inc.

1.4 Authority for Study

The FCDMC has contracted (FCD #95-39) with Sverdrup Civil, Inc. (Sverdrup) to complete final design plans and construction documents for the channelization of

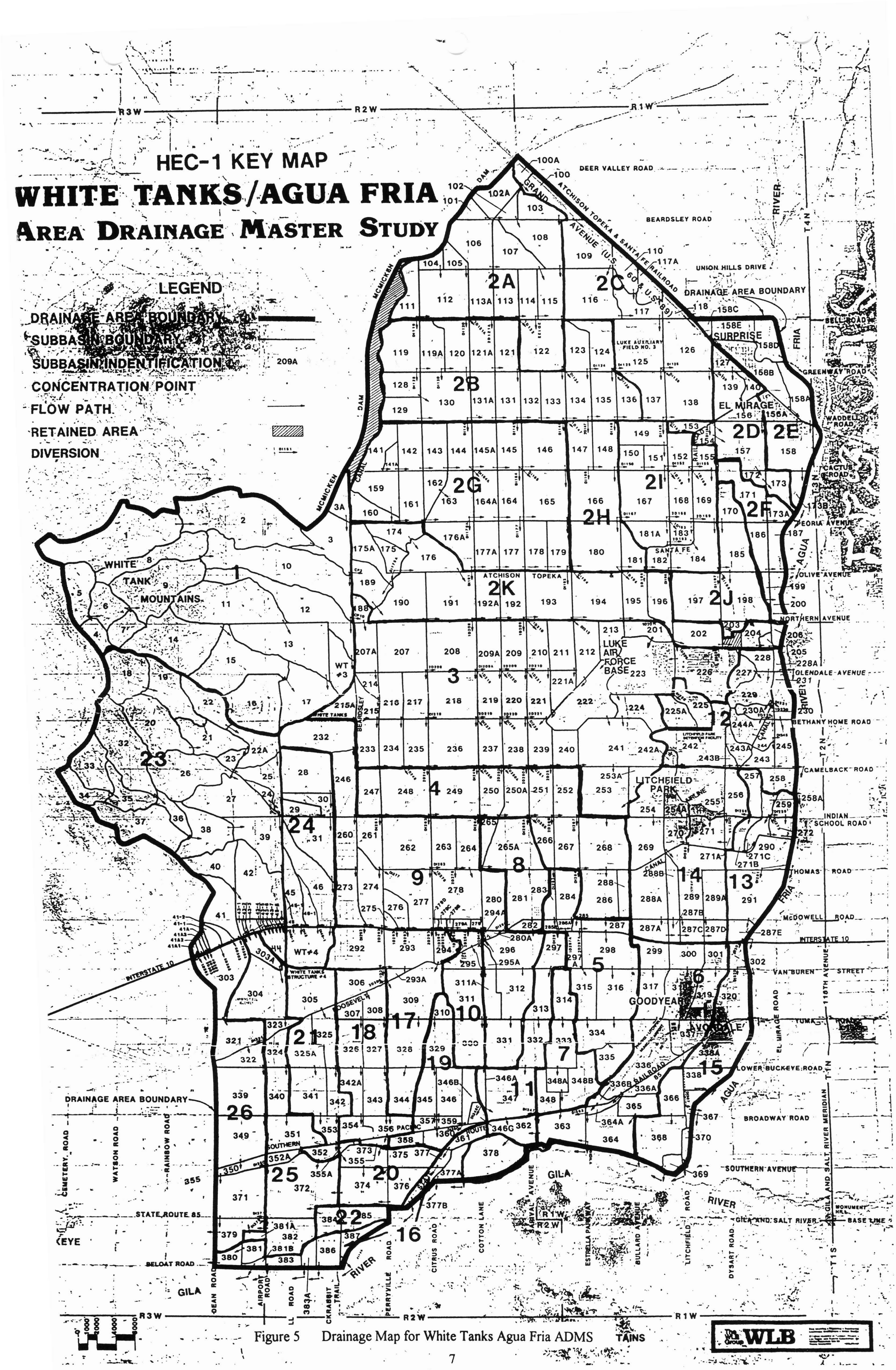


Figure 5 Drainage Map for White Tanks Agua Fria ADMS

Bullard Wash between the Gila River and Lower Buckeye Road. Wood, Patel & Associates, Inc., as a sub-consultant, has been assisting Sverdrup on several tasks, more specifically, interior drainage hydrology, hydraulics, sediment transport, and scour analysis for the proposed design. Brooks, Hersey and Associates, Inc. and Cooper Aerial of Phoenix, Inc. are the sub-consultants for ground survey and aerial photos services. FCDMC and JE Fuller Hydrology & Geomorphology, Inc have developed a hydrologic model (HEC-1) for Bullard Wash by modifying previous HEC-1 models including the White Tanks ADMS HEC-1 (WLB, 1992) model, Dysart Drain HEC-1 model (WLB, 1993), and Bullard Wash Outfall Feasibility Study HEC-1 model (Stanley Consultants, 1995).

There are major transportation facilities located within the study area involving the jurisdictions of MCDOT (MC 85), the City of Phoenix (Phoenix - Goodyear Municipal Airport), the Union Pacific Railroad (UPRR, formerly Southern Pacific Railroad), as well as the local roadways within the City of Goodyear right-of-way. The study area also includes jurisdictions of the Buckeye Irrigation District (BID) and the Roosevelt Irrigation District (RID). There are also numerous major utilities within the study area.

1.5 Methodology

The following methods of analysis are used for this project:

•Hydrology – The hydrologic methods follow the *FCDMC Drainage Design Manual, Volume I, Hydrology,* revised January 1995. The 100-year, 24-hour peak design discharge is 3,200 cfs for Bullard Wash, as modeled by the US Army Corps of Engineers (COE) HEC-1 Version 4.0 microcomputer software.

•Hydraulics – The hydraulic methods follow the *FCDMC Drainage Design Manual, Volume II, - Hydraulics,* January 1996. The proposed Bullard Wash channelization is modeled utilizing the COE HEC-RAS Version 2.1 hydraulic modeling software. The proposed East Tributary Channel is modeling utilizing Haestad Methods' Open Channel Flow Module Version 3.43 (1991). The culvert analysis is performed for the culverts discharging into Buckeye Irrigation District Canal by using Haestad Methods' CulvertMaster Version 1.0.

•Erosion and Sedimentation Transport – The methods of erosion and sediment transport analysis follow ADWR's *Design Manual for Engineering Analysis of Fluvial Systems,* 1985.

1.6 Study Results

The drainage area map for this study can be seen in Figure 6 or Exhibit B. The Bullard Wash Channel with 3200 cfs design capacity is proposed to carry flow from Lower Buckeye Road to the Gila River. Therefore, the effective floodplains (Zone A) from Lower Buckeye Road to Gila River along Bullard Wash will be

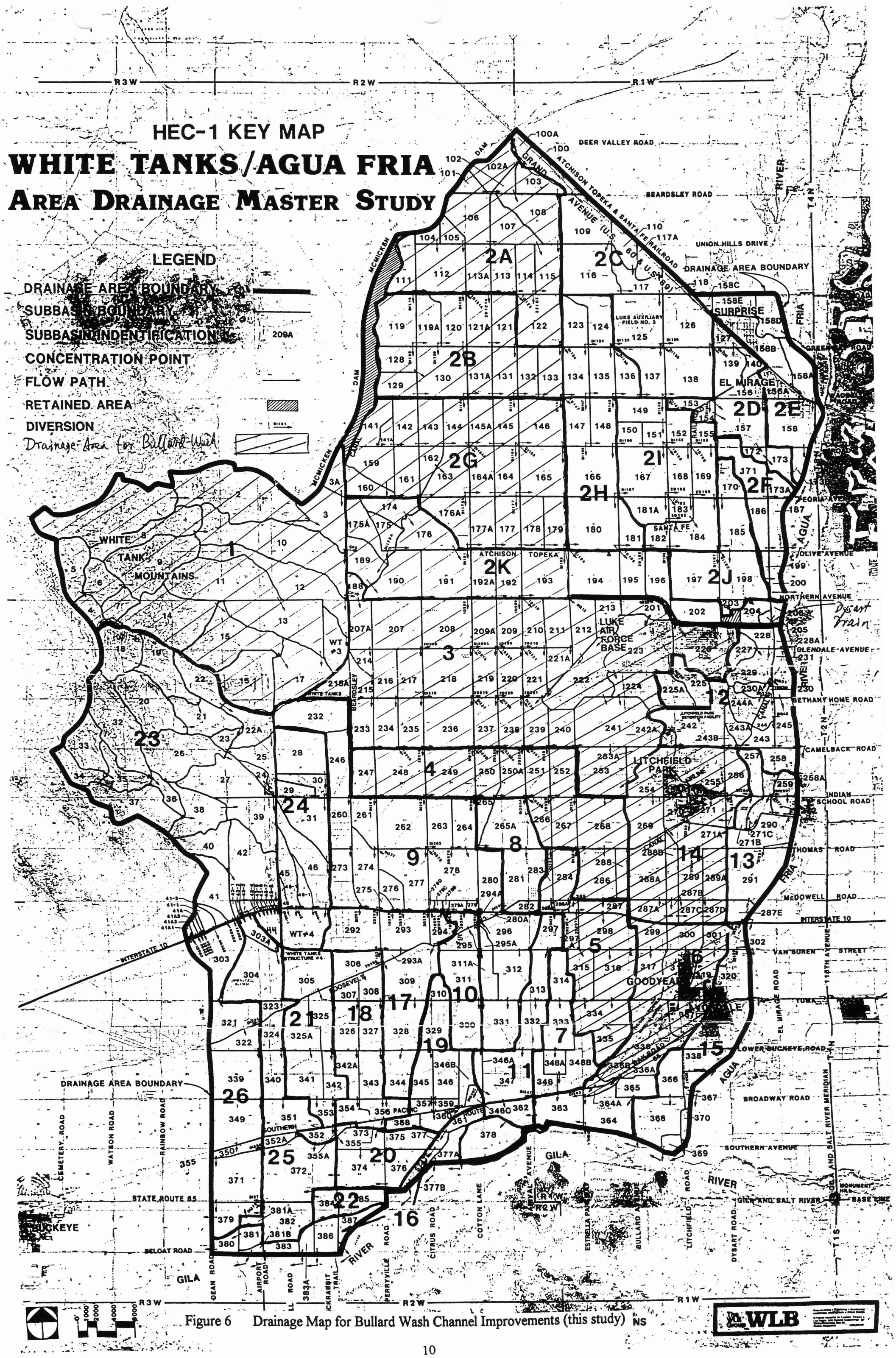
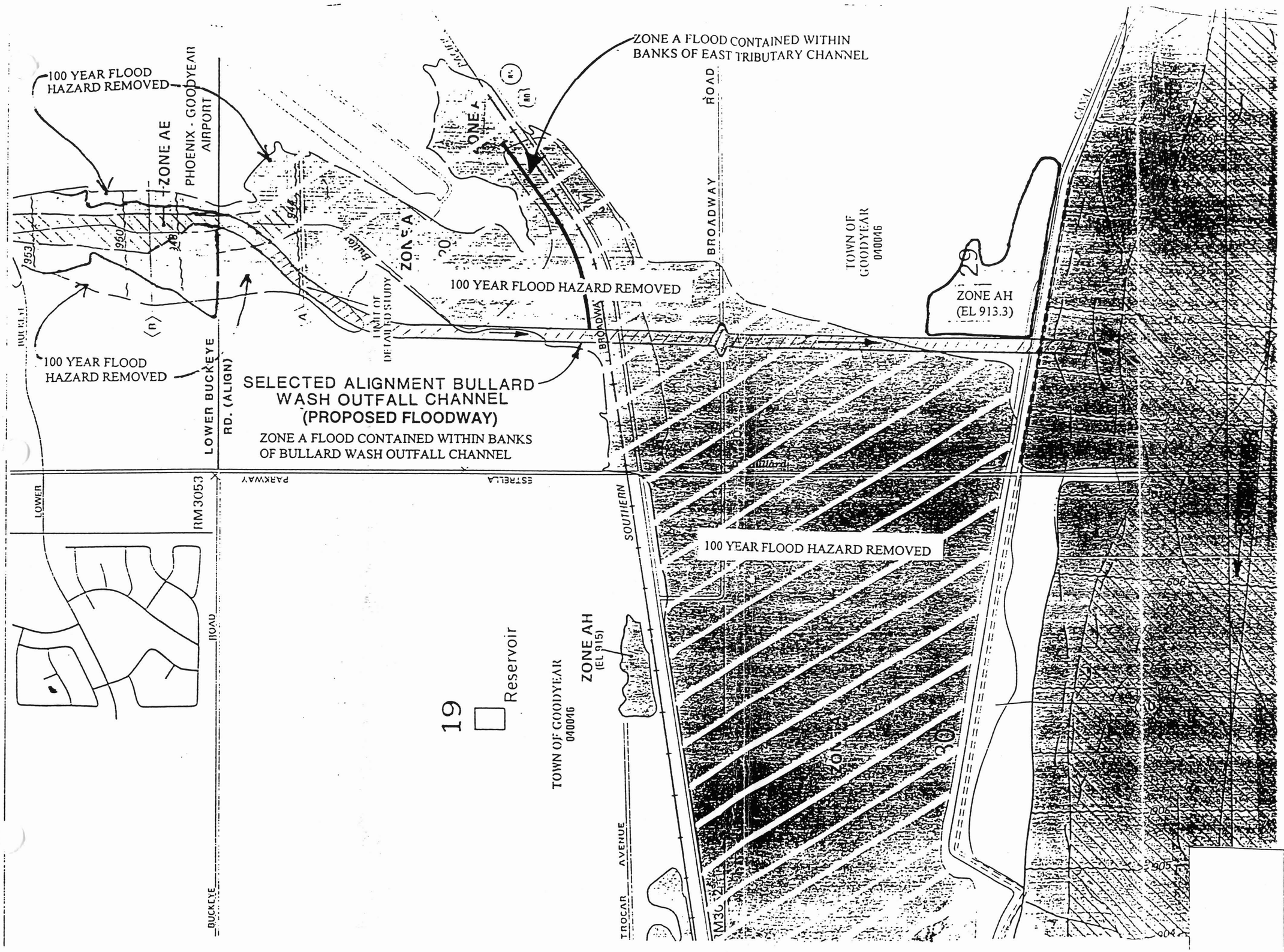


Figure 6 Drainage Map for Bullard Wash Channel Improvements (this study)

removed (Figures 7). The Bullard Wash Channel is modeled by using HEC-RAS and recommended to be designated as the floodway. The floodplain areas about 1800' north of Lower Buckeye Road are reduced (Figure 8). A small channel called East Tributary Channel with 850 cfs design capacity is proposed along the north side of the railroad near the intersection of Bullard Avenue and Lower Buckeye Road to carry flow into Bullard Wash Channel. The East Tributary Channel is modeled by Manning's equation and recommended to be designated as Zone A (Figure 7). The ponding area near the northeast corner of the Bullard Wash alignment and Buckeye Irrigation District Canal is recommended to be delineated as Zone AH (Figure 7). Figure 9 or Exhibit C shows the proposed floodplains and effective floodplains on a topographic workmap.

The results of this project are documented in two separate technical data notebook volumes, Volume One and Volume Two. This report is Volume One. Volume Two is titled *Bullard Wash Channel Improvements, Technical Data Notebook, Volume Two*, November, 1998. For ease of discussion, that report will be herein referred to as TDN Volume Two. Both volumes are intended to follow the Arizona Department of Water Resources (ADWR) State Standard SS-97 Technical Data Notebook (TDN) format.



NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 2070 OF 4350

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
GOODYEAR, TOWN OF	[illegible]	[illegible]	F
MARICOPA COUNTY UNINCORPORATED AREAS	040037	2070	F

MAP NUMBER
04013C2070 F

MAP REVISED:
SEPTEMBER 30, 1995

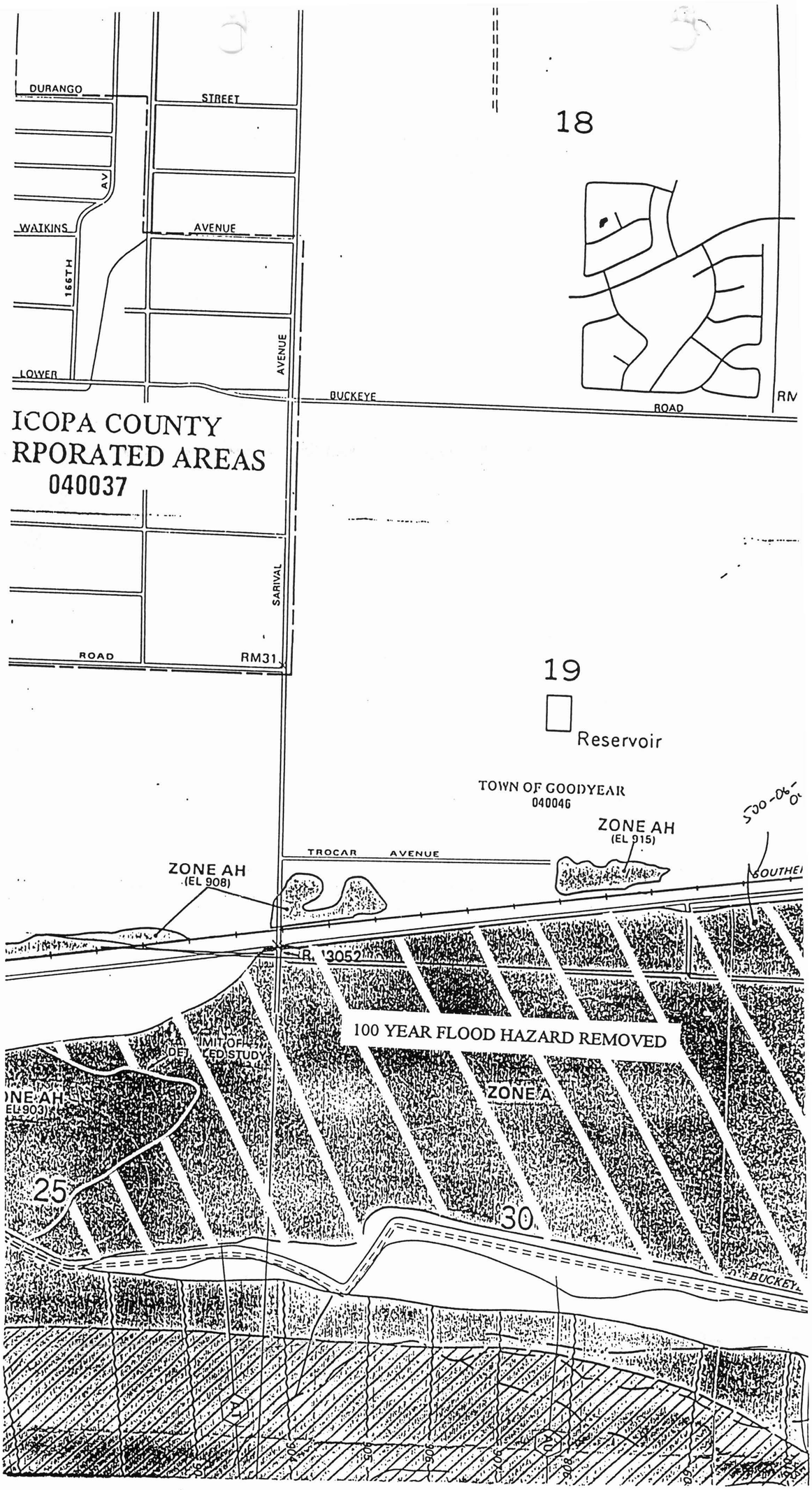
Federal Emergency Management Agency

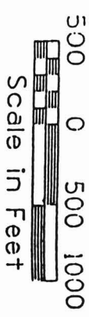
Figure 7 Annotated FIRM

500 0 500 1000
Scale in Feet

FLOOD INSURANCE RATE MA
FIGURE 7

WOOD/PATEL ASSOCIATES Civil Engineers Hydrologists	SCALE 1" = 1000'	SHEET 1 OF
	DATE [illegible]	JOB NO. 56464





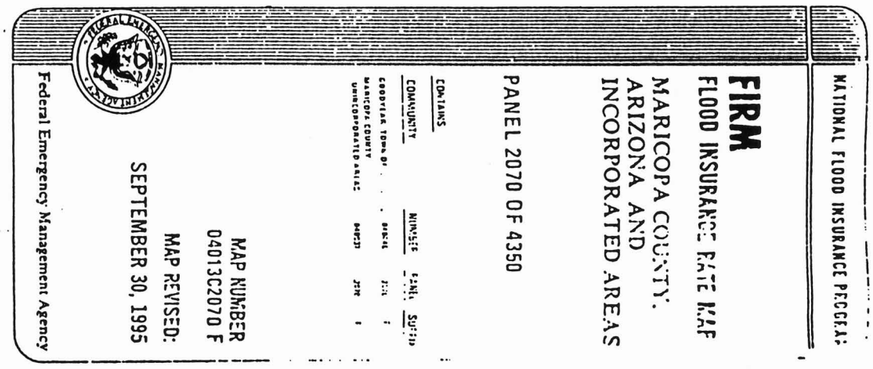


Figure 7 Annotated FIRM

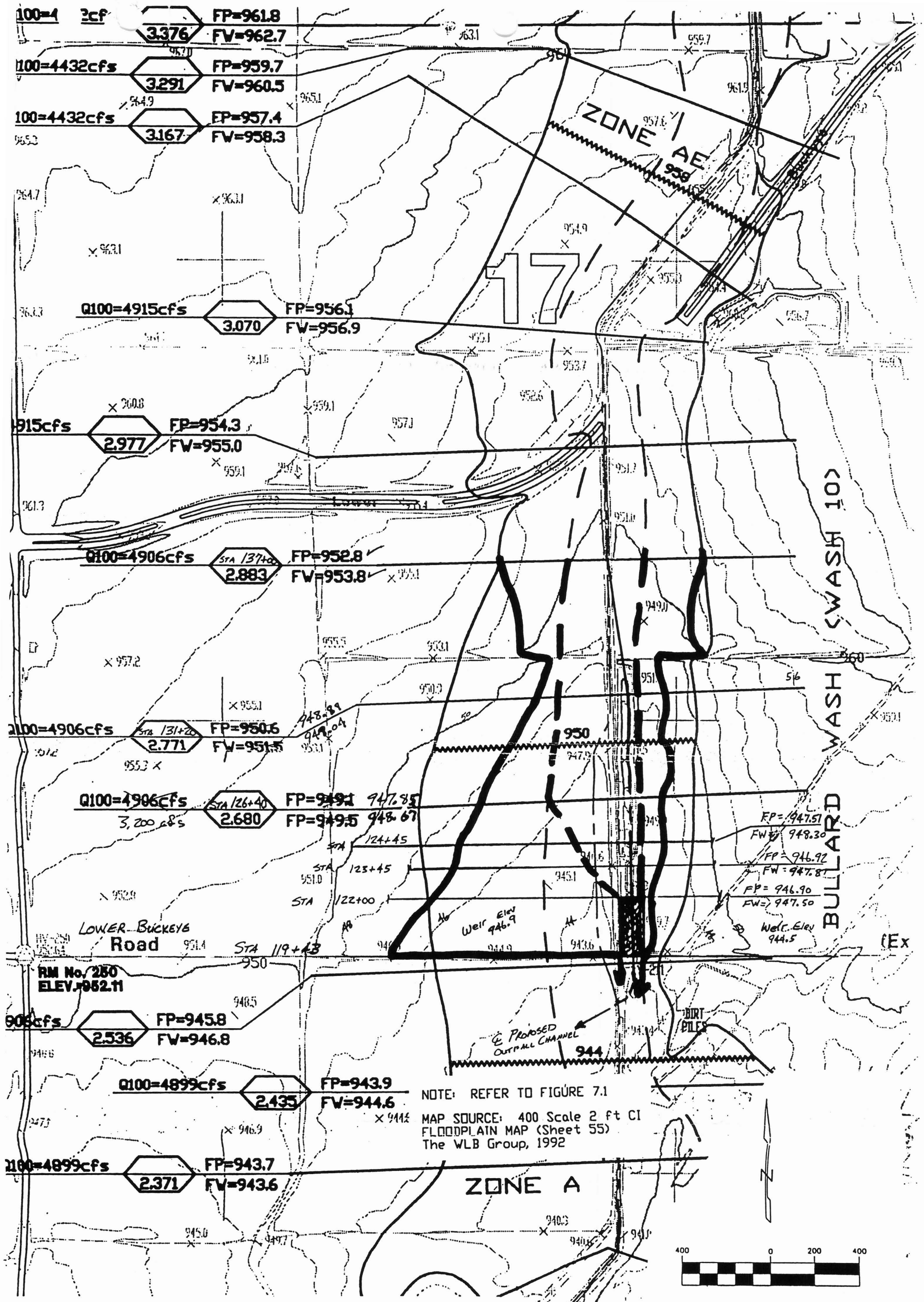


Figure 8 Proposed Floodplains (1800' Upstream of Lower Buckeye Road)

Bullard Wash Channel Improvements

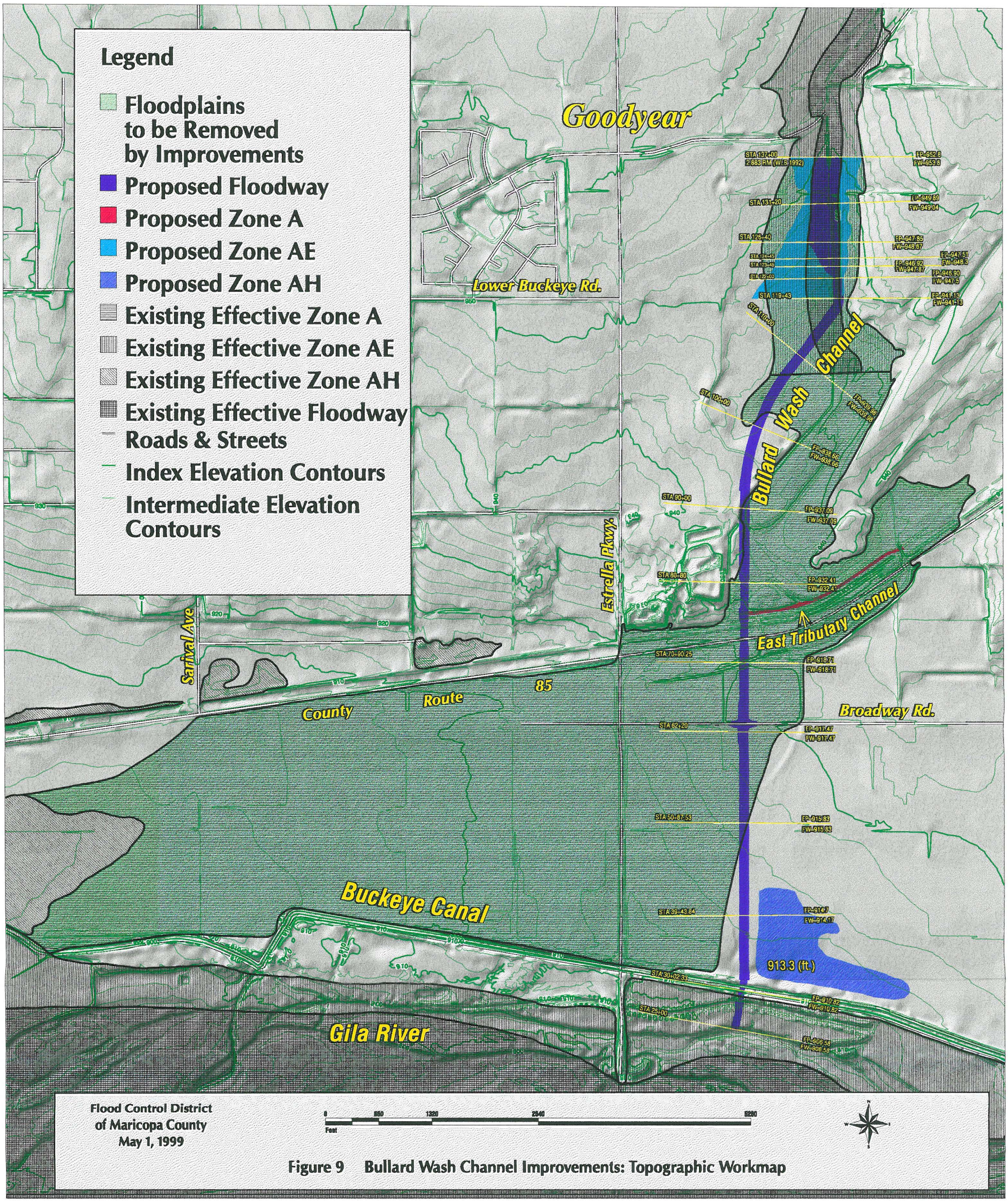


Figure 9 Bullard Wash Channel Improvements: Topographic Workmap

2.0 ADWR/FEMA FORMS

2.1 Study Documentation Abstract for FEMA Submittals

Study Documentation Abstract for FEMA Submittals		Initial Study		Restudy		CLOMR	X	LOMR		Other	

2.1.1	Date Study Accepted	
2.1.2	Study Contractor Contract(s) Address Phone Internal Reference Number	Sverdrup Civil, Inc. Brad Olbert, P.E. 637 South 48th Street, Suite 101 Tempe, AZ 85281 (602) 303-9799 Fax (602) 303-9899
2.1.3	FEMA Technical Review Contractor Contact(s) Address Phone Internal Reference Number	
2.1.4	FEMA Regional Reviewer Phone	Michael Baker, Jr. Engineering (703)960-8800
2.1.5	State Technical Reviewer Phone	Arizona Department of Water Resources (602)417-2445
2.1.6	Local Technical Reviewer Phone	Flood Control District of Maricopa County (602) 506-1501
2.1.7	Reach Description	Bullard Wash Channel Improvements (from Lower Buckeye Road to Gila River)
2.1.8	USGS Quad Sheet(s) with original photo date & Latest photo revision date	7.5 Minute Perryville, AZ Quad Map, 1957, photo revised 1982
2.1.9	Unique Conditions and Problems	None
2.1.10	Coordination of Q's Discharges (Agency, Date, Comments)	100-year, 24-hour peak discharge = 3,200 cfs (FCDMC)

2.2 FEMA Forms

The following are FEMA forms (FEMA MT-2 packet, May 1996 and 1997) for Bullard Wash Channel and East Tributary Channel.

Form 1	Revision Requestor and Community Official Form
Form 2	Certification by Registered Professional Engineer and/or Land Surveyor Forms; Please see TDN Volume 2 for more certifications
Form 3	Hydrologic Analysis Form
Form 4	Riverine Hydraulic Analysis Form
Form 5	Riverine Coastal Mapping Form
Form 6	Channelization Form (East Tributary Channel); Please see TDN Volume 2 for Bullard Wash Channel
Form 7	Bridge/Culvert Forms --- see TDN Volume 2
Form 8	Levee/Floodwall System Analysis Form --- see TDN Volume 2

FEDERAL EMERGENCY MANAGEMENT AGENCY **REVISION REQUESTER AND COMMUNITY OFFICIAL FORM**	O.M.B No. 3067-0148 Expires April 30, 2001

Public reporting burden for this form is estimated to average 2.13 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

1. REQUESTED RESPONSE FROM FEMA

This request is for a:

☒ CLOMR A letter from FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60,65 & 72).

☐ LOMR A letter from FEMA officially revising the current NFIP map to show the changes to floodplains, floodway or flood elevations. LOMRs typically decrease flood hazards. (See 44 CFR Ch. 1 Parts 60 & 65.)

☐ Other Describe: _____

2. OVERVIEW

1. The basis for this revision request is (are): (check all that apply)

☒ Physical Change ☐ Improved Methodology/Data ☐ Floodway Revision

☐ Other Describe: _____

Note: A photograph is not required, but is very helpful during review.

2. Flooding Source: Bullard Wash

3. Project Name/Identifier: Bullard Wash Channel Improvements

4. FEMA zone designations affected: A, AE, X
(example: A, AH, AO, A1-A30, A99, AE, V, V1-V30, VE, B, C, D, X)

5. The NFIP map panel(s) affected for all impacted communities is (are):

Community No.	Community Name	State	Map No.	Panel No.	Effective Date
Ex: 480301 480287	Katy, City Harris County	TX TX	480301 48201C	0005D 0220G	02/08/83 09/28/90
040046	City of Goodyear	AZ	04013C	2070F	09/30/95

6. The area of revision encompasses the following types of flooding and structures. Check all that apply.

Types of Flooding	Structures
☒ Riverine	☒ Channelization
☐ Coastal	☒ Levee/Floodwall
☐ Alluvial fan	☒ Bridge/Culvert
☐ Shallow Flooding (e.g. Zones AO and AH)	☐ Dam
☐ Lakes	☐ Fill
☐ Other (describe)	☐ Other (describe)

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

4. ENCROACHMENT INFORMATION

1. Does the State have jurisdiction over the floodway or its adoption by communities participating in the NFIP?
   ☐ Yes ☒ No

If Yes, attach a copy of a letter notifying the appropriate State agency of the floodway revision and documentation of the approval of the revised floodway by the appropriate State agency.

2. Does the development in the floodway cause the 1% annual chance (base) elevation to increase at any location by more than 0.000 feet? ☐ Yes ☒ No ☐ N/A

3. Does the cumulative effect of all development that has occurred since the effective SFHA was originally identified cause the base flood elevation to increase at any location by more than one foot (or other increase limit if community or state has adopted more stringent criteria - even if a floodway has not been delineated by FEMA)? ☐ Yes ☒ No

If the answer to either items is Yes, please attach documentation that all requirements of Section 65.12 of the NFIP regulations have been met, regarding evaluation of alternatives, notice to individual legal property owners, concurrence of CEO, and certification that no insurable structures are impacted.

5. MAINTENANCE RESPONSIBILITY

The community is willing to assume responsibility for ☒ performing ☐ overseeing compliance with the maintenance and operation plans of the Bullard Wash Channel,E. Tributary Channel, BID Canal Spillway,O&M Rd, Lower Buckey Rd
(Name)
flood control structure. If not performed promptly by an owner other than the community, the community will provide the necessary services without cost to the Federal government.

Operation and maintenance plans are attached. ☒ **Yes** ☐ **No** ☐ **N/A**

6. REVIEW FEE

The review fee for the appropriate request category has been included. ☐ Yes Fee amount: $_____

OR

This request is based on a federally sponsored flood-control project where 50 percent or more of the project's cost is federally sponsored, or the request is based on detailed hydrologic and hydraulic studies conducted by Federal, State, or local agencies to replace approximate studies conducted by FEMA and shown on the effective FIRM; thus the project is fee exempt. ☒ Yes

Please see Instructions for Fee Amounts

7. SIGNATURE

Note: **I understand that my signature indicates that all information submitted in support of this request is correct**

Signature of Revision Requester

Michael S. Ellegood, P.E., Chief Engineer and General Manager
Printed Name and Title of Revision Requester

Flood Control District of Maricopa County
Company Name

Telephone No.: (602) 506-4700 Date: 05/12/1999

Note: **Signature indicates that the community understands, from the revision requester, the impacts of the revision on flooding conditions in the community.**

Harvey Krauss
Signature of Community Official

Harvey Krauss, Community Development Director
Printed Name and Title of Community Official

City of Goodyear
Community Name

Telephone No.: (602) 932-3494 Date: 05/12/1999

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is in accordance with 44 CFR Ch. 1, Sect 65.2

Bing Zhao
Signature

Bing Zhao, P.E., Ph.D., Civil Engineer
Printed Name and Title of Revision Requester

Registr No. 32345 Expires (Date) 03/31/2001 State AZ

Type of License/Expertise: Civil

Check which forms have been included with this request

Form Name and (Number)	Required if .....
☒ **Hydrologic** (3)	new or revised discharges
☒ **Hydraulic** (4)	new or revised water-surface elevations
☒ **Mapping** (5)	floodplain/floodway changes
☒ **Channelization** (6)	channel is modified
☒ **Bridge/Culvert** (7)	addition/revision of bridge/culvert
☒ **Levee/Floodwall** (8)	addition/revision of levee/floodwall
☐ **Coastal** (9)	new or revised coastal elevations
☐ **Coastal Structures** (10)	addition/revision of coastal structure
☐ **Dam** (11)	addition/revision of dam
☐ **Alluvial Fan** (12)	structures proposed on alluvial fan

4. ENCROACHMENT INFORMATION

1. Does the State have jurisdiction over the floodway or its adoption by communities participating in the NFIP?
   ☐ Yes ☒ No

If Yes, attach a copy of a letter notifying the appropriate State agency of the floodway revision and documentation of the approval of the revised floodway by the appropriate State agency.

2. Does the development in the floodway cause the 1% annual chance (base) elevation to increase at any location by more than 0.000 feet? ☐ Yes ☒ No ☐ N/A

3. Does the cumulative effect of all development that has occurred since the effective SFHA was originally identified cause the base flood elevation to increase at any location by more than one foot (or other increase limit if community or state has adopted more stringent criteria - even if a floodway has not been delineated by FEMA)? ☐ Yes ☒ No

If the answer to either items is Yes, please attach documentation that all requirements of Section 65.12 of the NFIP regulations have been met, regarding evaluation of alternatives, notice to individual legal property owners, concurrence of CEO, and certification that no insurable structures are impacted.

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(Name)
flood control structure. If not performed promptly by an owner other than the community, the community will provide the necessary services without cost to the Federal government.

Operation and maintenance plans are attached. ☒ **Yes** ☐ **No** ☐ **N/A**

6. REVIEW FEE

The review fee for the appropriate request category has been included. ☐ Yes Fee amount: $_____

OR

This request is based on a federally sponsored flood-control project where 50 percent or more of the project's cost is federally sponsored, or the request is based on detailed hydrologic and hydraulic studies conducted by Federal, State, or local agencies to replace approximate studies conducted by FEMA and shown on the effective FIRM; thus the project is fee exempt. ☒ Yes

Please see Instructions for Fee Amounts

7. SIGNATURE

Note: **I understand that my signature indicates that all information submitted in support of this request is correct**

X

Signature of Revision Requester

Michael S. Ellegood, P.E., Chief Engineer and General Manager
Printed Name and Title of Revision Requester

Flood Control District of Maricopa County
Company Name

Telephone No.: (602) 506-4700 Date: 05/12/1999

Note: **Signature indicates that the community understands, from the revision requester, the impacts of the revision on flooding conditions in the community.**

Signature of Community Official

Harvey Krauss, Community Development Director
Printed Name and Title of Community Official

City of Goodyear
Community Name

Telephone No.: (602) 932-3494 Date: 05/12/1999

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is in accordance with 44 CFR Ch. 1, Sect 65.2

Bing Zhao
Signature

Bing Zhao, P.E., Ph.D., Civil Engineer
Printed Name and Title of Revision Requester

Registr No. 32345 Expires (Date) 03/31/2001 State AZ

Type of License/Expertise: Civil

Check which forms have been included with this request

Form Name and (Number)	Required if .....
☒ **Hydrologic** (3)	new or revised discharges
☒ **Hydraulic** (4)	new or revised water-surface elevations
☒ **Mapping** (5)	floodplain/floodway changes
☒ **Channelization** (6)	channel is modified
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1. Does the State have jurisdiction over the floodway or its adoption by communities participating in the NFIP?
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2. Does the development in the floodway cause the 1% annual chance (base) elevation to increase at any location by more than 0.000 feet? ☐ Yes ☒ No ☐ N/A

3. Does the cumulative effect of all development that has occurred since the effective SFHA was originally identified cause the base flood elevation to increase at any location by more than one foot (or other increase limit if community or state has adopted more stringent criteria - even if a floodway has not been delineated by FEMA)? ☐ Yes ☒ No

If the answer to either items is Yes, please attach documentation that all requirements of Section 65.12 of the NFIP regulations have been met, regarding evaluation of alternatives, notice to individual legal property owners, concurrence of CEO, and certification that no insurable structures are impacted.

5. MAINTENANCE RESPONSIBILITY

The community is willing to assume responsibility for ☒ performing ☐ overseeing compliance with the maintenance and operation plans of the Bullard Wash Channel,E. Tributary Channel, BID Canal Spillway,O&M Rd, Lower Buckey Rd
(Name)
flood control structure. If not performed promptly by an owner other than the community, the community will provide the necessary services without cost to the Federal government.

Operation and maintenance plans are attached. ☒ **Yes** ☐ **No** ☐ **N/A**

6. REVIEW FEE

The review fee for the appropriate request category has been included. ☐ Yes Fee amount: $_____

OR

This request is based on a federally sponsored flood-control project where 50 percent or more of the project's cost is federally sponsored, or the request is based on detailed hydrologic and hydraulic studies conducted by Federal, State, or local agencies to replace approximate studies conducted by FEMA and shown on the effective FIRM; thus the project is fee exempt. ☒ Yes

Please see Instructions for Fee Amounts

7. SIGNATURE

Note: **I understand that my signature indicates that all information submitted in support of this request is correct**

X

Signature of Revision Requester

Michael S. Ellegood, P.E., Chief Engineer and General Manager
Printed Name and Title of Revision Requester

Flood Control District of Maricopa County
Company Name

Telephone No.: (602) 506-4700 Date: 05/12/1999

Note: **Signature indicates that the community understands, from the revision requester, the impacts of the revision on flooding conditions in the community.**

Signature of Community Official

Harvey Krauss, Community Development Director
Printed Name and Title of Community Official

City of Goodyear
Community Name

Telephone No.: (602) 932-3494 Date: 05/12/1999

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Bing Zhao

Signature

Bing Zhao, P.E., Ph.D., Civil Engineer
Printed Name and Title of Revision Requester

Registr No. 32345 Expires (Date) 03/31/2001 State AZ

Type of License/Expertise: Civil

Check which forms have been included with this request

Form Name and (Number)	Required if .....
☒ **Hydrologic** (3)	new or revised discharges
☒ **Hydraulic** (4)	new or revised water-surface elevations
☒ **Mapping** (5)	floodplain/floodway changes
☒ **Channelization** (6)	channel is modified
☒ **Bridge/Culvert** (7)	addition/revision of bridge/culvert
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☐ **Coastal Structures** (10)	addition/revision of coastal structure
☐ **Dam** (11)	addition/revision of dam
☐ **Alluvial Fan** (12)	structures proposed on alluvial fan

Explanations
For
Revision Requester and Community Official Form (Form 1)

1. The explanation for "5. Maintenance Responsibility"
The operation and maintenance plans can be found in Appendix B3 of TDN Volume 2.

2. The explanation for "6. Review Fee"
Since the detailed hydrologic study was conducted by local government (FCDMC) and Zone A is removed, we request the fee exemption.

3. The explanation for "7. Signature"
Eight more certifications can be found in Chapter Two of TDN Volume 2.

FEDERAL EMERGENCY MANAGEMENT AGENCY **CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR FORM**	*O.M.B. Burden No. 3067-0148* *Expires July 31, 1997*	*FEMA USE ONLY*

PUBLIC BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average . 23 hour per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden, to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington, DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067- 0148), Washington, DC 20503.

1. This certification is in accordance with 44 CFR Ch. I, Section 65.2
2. I am licensed with an expertise in water resources
   [example: water resources *(hydrology, hydraulics, sediment transport, interior drainage)** structural, geotechnical, land surveying.]
3. I have 9 years experience in the expertise listed above.
4. I have ☒ prepared ☐ reviewed the attached supporting data and analyses related to my expertise. (Hydrology)
5. I ☒ have ☐ have not visited and physically viewed the project.
6. In my opinion, the following analyses and /or designs, is/are being certified:
   Bullard Wash hydrology
7. Base upon the following review, the modifications in place have been constructed in general accordance with plans and specifications.

   Basis for above statement: (check all that apply)

   a. ☐ Viewed all phases of actual construction.
   b. ☐ Compared plans and specifications with as-built survey information.
   c. ☐ Examined plans and specifications and compared with completed projects.
   d. ☐ Other _____
8. All information submitted in support of this request is correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Name: BING ZHAO, P.E., Ph.D.
(please print or type)

Title: CIVIL ENGINEER
(please print or type)

Registration No. 32345 Expiration Date: 03/31/2001

State ARIZONA

Type of License CIVIL

Bing Zhao
Signature

04/09/1999
Date

Registered Professional Engineer (Civil)
CERTIFICATE NO
32345
BING
ZHAO
Date Signed 4/9/99
ARIZONA U.S.A.

Seal
(Optional)

*Specify Subdiscipline

Note: Insert not applicable (N/A) when statement does not apply.

Explanations
For
Certification by Registered Professional Engineer and/or Land Surveyor Form
(Form 2)

Eight more certifications can be found in Chapter Two of TDN Volume 2.

FEDERAL EMERGENCY MANAGEMENT AGENCY **HYDROLOGIC ANALYSIS FORM**	O.M.B No. 3067-0148 Expires July 31, 1997

Public reporting burden for this form is estimated to average **3.67** hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

Note: Fill out one form for each flooding source studied

Community Name: Town of Goodyear, Arizona

Flooding Source: Bullard Wash

Project Name/Identifier: Bullard Wash Channel Improvements

1. REASON FOR NEW HYDROLOGIC ANALYSIS

☐ No existing analysis ☐ Improved data ☒ Changed physical condition of watershed

☐ Alternative methodology ☒ Proposed Conditions (CLOMR) ☐ Other

For the reason stated above, please attach a detailed explanation. If a computer program/model was used in revising the hydrologic analysis, **please provide a diskette with the input files** for the same flood recurrence intervals contained in the FIS for that stream; and at least for the 1% annual chance (base) flood where no detailed study exists.

Explanation provided: ☒ Yes ☐ No **Diskettes provided:** ☒ Yes ☐ No

2. METHODOLOGY FOR NEW ANALYSIS

Indicate Method	Required Data	Data Included
☐ Statistical Analysis of Gage Records	Form 3 - Attachment A	☐ Yes ☐ No
☐ Regional Regression Equations	Form 3 - Attachment C	☐ Yes ☐ No
☒ Precipitation/Runoff Model	Form 3 - Attachment D	☒ Yes ☐ No
☐ Other	Back-up computations and supporting data	☐ Yes ☐ No

3. APPROVAL OF ANALYSIS

The hydrologic analysis has already been approved by a local, state, or Federal Agency. ☐ Yes ☐ No ☒ Not Required

If Yes, attach evidence of approval. ☐ **Approval attached.** If No, attach explanation. ☒ **Explanation attached.**

4. COMPARISON OF BASE FLOOD DISCHARGES

Location:	Drainage Area (SqMi)	FIS(cfs)	Revised (cfs)
CP364A:Bullard Wash Channel(Reems Rd & Broadway Rd)	97(FIS);58(rev)	4895	3198
East Tributary Channel	4.59	863	847

Note: When revised discharges are not significantly different than the FIS discharges, FEMA may require a confidence limits analysis (see attachment B) at a later date to complete the review.

If only a portion of a detailed study area was revised please attach an explanation describing the transition from the proposed discharges to the effective discharges. ☐ **Explanation Included** ☒ **Explanation Not Required**

5. HISTORICAL FLOODING INFORMATION

If historical data are available for the flooding source please provide: Location, peak discharges/water-surface elevations and dates, and source of information. ☐ **Data Attached** ☒ **Data Not Available**

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

ATTACHMENT A: STATISTICAL ANALYSIS OF GAGE RECORDS

Gaging Station: _____

Gage Location (latitude and longitude): _____

		FIS:		Revised:	
1.	Number of years of data	_____		_____	
	Systematic	_____		_____	
	Historical	_____		_____	
2.	Homogeneous data	☐ Yes	☐ No	☐ Yes	☐ No
3.	Data adjustments	☐ Yes	☐ No	☐ Yes	☐ No
4.	Number of high outliers	_____		_____	
	Low outliers	_____		_____	
	Zero events	_____		_____	
5.	Generalized skew	_____		_____	
6.	Station skew	_____		_____	
7.	Adopted skew	_____		_____	
8.	Probability distribution used (justify if log-Pearson III was not used)	_____		_____	
9.	Transfer equations to ungaged sites			☐ Yes	☐ No

If Yes, specify method

_____

_____

_____

10.	Expected probability*	☐ Yes	☐ No
11.	Comparison of results with other analyses	☐ Yes	☐ No

If Yes, describe comparison

_____

_____

_____

12. **Attach analysis including plot of flood-frequency curve.** **Analysis Attached?** ☐ Yes ☐ No

*FEMA does not accept expected probability analyses for the purpose of reflecting flood hazard information in a FIS.

If any data are not available, indicate by N/A.

ATTACHMENT B: CONFIDENCE LIMITS EVALUATION

Stream: _____

Select one location for Confidence Limits Evaluation (*describe location*): _____

_____

1. Discharges for selected location:

Exceedence Probability		FIS:	Revised:
10%	(10-year)	_____ cfs	_____ cfs
2%	(50-year)	_____ cfs	_____ cfs
1%	(100-year)	_____ cfs	_____ cfs
0.2%	(500-year)	_____ cfs	_____ cfs

2. 1% Annual Chance (Base) Flood Confidence Intervals

90% Confidence Interval:	5% limit	_____ cfs
	95% limit	_____ cfs
50% Confidence Interval:	25% limit	_____ cfs
	75% limit	_____ cfs

3. If the discharge of the base flood in the FIS is beyond the 50% confidence interval but within the 90% confidence interval, does the base flood elevation change by 1.0 foot or more? ☐ Yes ☐ No

An example of confidence limits analysis can be found in Appendix 9 of Bulletin 17B.

4. **Confidence Limits Analysis Attached?** ☐ Yes ☐ No

ATTACHMENT C: REGIONAL REGRESSION EQUATIONS

1. Bibliographical Reference:

(Attach a copy of title page, table of contents, and pertinent pages including equations.)

2. Gaged or ungaged stream: _____

3. Hydrologic region(s): _____
Attach backup map.

4. Provide parameters, values, and source of data used to define parameters.

		FIS:		Revised:	
5.	Urbanized conditions calculations	☐ Yes	☐ No	☐ Yes	☐ No
6.	Percent of watershed urbanization	------		------	
7.	Is the watershed controlled?	☐ Yes	☐ No	☐ Yes	☐ No
8.	Comparison with other analyses	☐ Yes	☐ No	☐ Yes	☐ No

If the answer to 5, 7, or 8 is Yes, explain methdology below. If data are not available, indicate with N/A.

Comments

------

9. **Attach computation and supporting maps, delineating the watershed boundary and drainage area divides.**

Computation and Supporting Maps provided? ☐ Yes ☐ No

ATTACHMENT D: PRECIPITATION/RUNOFF MODEL

		FIS:		Revised:	
1.	Method or model used:	HEC-1		HEC-1	
	Version:	1988 Version		1990 Version (4.0)	
	Date:	1988		1990	
2.	Source of rainfall depth:	NOAA Atlas II		NOAA Atlas II	
3.	Source of rainfall distribution:	SCS Type II		SCS Type II	
4.	Rainfall duration:	24-hour		24-hour	
5.	Areal adjustment to precipitation (%):	NOAA Atlas II		NOAA Atlas II	
6.	Maximum overland flow length	22 mile (watershed)		22 mile (watershed))	
7.	Hydrograph development method:	Phoenix Valley S-Graph		Phoenix Valley S-Graph	
8.	Loss rate method:	Green-Ampt		Green-Ampt	
	Source of soils information:	SCS		SCS	
	Source of land use information:	Maricopa County		Maricopa County	
9.	Channel routing method:	Normal Depth		Normal Depth	
10.	Reservoir routing:	☒ Yes	☐ No	☒ Yes	☐ No
11.	Baseflow considerations:	☐ Yes	☒ No	☐ Yes	☒ No
12.	Snowmelt considerations:	☐ Yes	☒ No	☐ Yes	☒ No
13.	Model calibration:	☐ Yes	☒ No	☐ Yes	☒ No
14.	Future land use condition:	☐ Yes	☒ No	☐ Yes	☒ No

If Yes, explain below how baseflow was determined:

If Yes, explain below how calibration was performed

Checked against FIS hydrologic analysis (White Tanks/Agua Fria ADMS) to see if results were within reasonable limits___

If Yes, explain why below

------

15. **Attach precipitation/runoff model, hydrologic model schematic, curve number calculations, time of concentration calculations, and supporting maps, delineating the watershed boundary and drainage area divides.**

Information and Maps provided? ☒ Yes ☐ No

NOTE: FEMA policy is to base flooding on existing conditions.

Explanations
For
Hydrologic Analysis Form (Form 3)

1. Explanation for "1. Reason for New Hydrologic Analysis"
The reasons for new hydrologic analysis are the proposed condition (CLOMR) and changed physical conditions of watershed. The proposed condition (CLOMR) is the proposed Bullard Wash Channel Improvements and east tributary channel. The changed physical conditions of watershed is the reduction of drainage area, which is due to the recently improved Dysart Drain intercepting the 100-year flows and carrying them to Agua Fria River. The detailed discussions on the hydrologic analysis can be found in "4.0 Hydrology" of TDN Volume 1 (this report). The diskette for the HEC-1 model ("bullab3.dat") is provided in the end of this report (TDN Volume 1).

2. Explanation for "3. Approval of Analysis"
The approval of analysis is not required because the Flood Control District of Maricopa County (local agency) and JE Fuller Hydrology & Geomorphology developed the HEC-1 model.

FEDERAL EMERGENCY MANAGEMENT AGENCY **RIVERINE HYDRAULIC ANALYSIS FORM**	O.M.B No. 3067-0148 Expires April 30, 2001

Public reporting burden for this form is estimated to average 2.25 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

Note: Fill out one form for each flooding source studied

Community Name: City of Goodyear, Arizona

Flooding Source: Bullard Wash

Project Name/Identifier: Bullard Wash Channel Improvements

1. REACH TO BE REVISED

Describe the limits of the revision OR submit a copy of the FIRM with the revision area clearly highlighted.
Copy of FIRM(s) attached depicting area of the revision (highlighted, or circled)? ☒ Yes

Downstream Limit: Gila River or 500 ft south of Buckeye Irrigation District Canal (River Station 25+00)

Upstream Limit: 1600 ft north of Lower Buckeye Rd (River Station 137+00 in this study;or 2.883 RM in FIS)

2. MODELS SUBMITTED

Requirements: for areas which have detailed flooding:	**for areas which do not have detailed flooding:**
Full input and output listings along with files on diskette for each of the models listed below (items 1-4) and a summary of the source of input parameters used in the models must be provided. The summary must include a description of any changes made from model to model (e.g., Duplicate Effective model to Corrected Effective model). At a minimum, the Duplicate Effective (item 1) and the Revised or Post-Project Conditions (item 4) models must be submitted. See instructions for directions on when other models may be required.	Only the 100-year (Base) flood profile is required. A hydraulic model is not required for areas which do not have detailed flooding; however, BFEs may not be added to the revised FIRM. If a hydraulic model is developed for the area, items 3 and 4 described below must be submitted.

If hydraulic models are not developed, hydraulic analyses (including all calculations) for existing or pre-project conditions and revised or post-project conditions must be submitted.

1. Duplicate Effective Model ☒ **Natural** **File Name** 10.h2i ☒ **Floodway** **File Name** 10.h2i
Copies of the hydraulic analysis used in the effective FIS, referred to as the effective models (10-, 50-, 100-, and 500-year multi-profile runs and the floodway run) must be obtained and then reproduced on the requester's equipment to produce the Duplicate Effective model. This is required to assure that the effective models input data has been transferred correctly to the requester's equipment and to assure that the revised data will be integrated into the effective data to provide a continuous FIS model upstream and downstream of the revised reach.

2. Corrected Effective Model ☐ **Natural** **File Name** _____ ☐ **Floodway** **File Name** _____
The Corrected Effective model is the model that corrects any errors that occur in the Duplicate Effective model, adds any additional cross sections to the Duplicate Effective model, or incorporates more detailed topographic information than that used in the currently effective model. The Correctly Effective model must not reflect any man-made physical changes since the date of the effective model. An error could be a technical error in the modeling procedures, or any construction in the floodplain that occurred prior to the date of the effective model but was not incorporated into the effective model.

3. Existing or Pre-Project Conditions Model ☐ **Natural** **File Name** _____ ☐ **Floodway** **File Name** _____
The Duplicate Effective model or Corrective Effective model is modified to produce the Existing or Pre-Project Conditions model to reflect any modifications that have occurred within the floodplain since the date of the Effective model but prior to the construction of the project for which the revision is being requested. If no modification has occurred since the date of the effective model, then this model would be identical to the Corrected Effective model or Duplicate Effective model.

4. Revised or Post-Project Conditions Model ☒ **Natural** **File Name** bw-final.prj ☒ **Floodway** **File Name** bw-final.prj
The Existing or Pre-Project Conditions model (or Duplicate Effective model or Corrected Effective model, as appropriate) is revised to reflect revised or post-project conditions. This model must incorporate any physical changes to the floodplain since the effective model was produced as well as the effects of the project. When the request is for the proposed project this model must reflect proposed conditions.

5. Other – Please attach a sheet describing all other models submitted along with the file names. ☐ **Natural** ☐ **Floodway**

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

3. STARTING WATER-SURFACE ELEVATIONS

Explain how they were determined. Explanation Attached? ☒ Yes ☐ No

NOTE: If the effective study is an approximate study, the slope/area method is recommended.
For detailed analysis studies, using a known water-surface elevation is recommended.

4. RESULTS (from the model used to revise the 100-year water surface elevations)

If the results indicate any of the following, attach an explanation - to this form, or to the hydraulic model printout- as to the reasonableness of the situation.

☒ Supercritial depth ☒ Critical Depth ☐ Drawdowns ☐ Negative Floodway Surcharges

☐ Floodway Surcharges Greater Than Maximum Allowed by Community/State

☐ Water surface elevations higher than the end points of cross sections.

☐ Floodway discharge is different than the Natural 100-year (base) flood discharge.

☐ Project causes 100-year floodplain or floodway elevations to increase (state if increases are located off the requester's property)

Explanation attached with Form ☒ **Explanation provided on attached printout** ☐

If Hydraulic model used is HEC-2, has it been checked with FEMA'S CHECK-2 computer program ☐ **Yes** ☐ **No**
(see instructions for information on how to obtain CHECK-2)

5. REVISED FIRM/FBFM AND FLOOD PROFILES

1. **Profile Transition**

a. 100-Year Water-Surface Elevations - indicate the difference in water surface elevations where the project 100-year elevations tie into the existing 100-year water surface elevations at each end of the project.

Downstream End 25+00 within N/A (feet) Upstream End 137+00 or FIS 2.883 within 0.0 (feet)
Cross-Section # *Cross-Section #*

b. Floodway Elevations - indicate the difference in water surface elevations where the project floodway elevations tie into the existing floodway water surface elevations at each end of the project.

Downstream End 25+00 within N/A (feet) Upstream End 137+00 or FIS 2.883 within 0.0 (feet)
Cross-Section # *Cross-Section #*

c. Floodway widths - indicate the difference in floodway widths where the project floodway widths tie into the existing floodway width at each end of the project.

Downstream End 25+00 within N/A (feet) Upstream End 137+00 or FIS 2.883 within 0.0 (feet)
Cross-Section # *Cross-Section #*

2. **Profile Checklist (check box if information has been provided on profile)**

The following information (unless in parentheses) must be included at the same scale as the existing profiles for this project:

☒ Stream Name ☒ Community Name ☐ Corporate Limits labeled ☒ Study limits labeled

☒ Confluences labeled ☒ Channel Stationing ☒ Streambed profiled ☒ Cross Sections labeled

☒ Horizontal/Vertical Scales indicated ☒ 100-year elevs profiled*

☒ Road Crossings ☒ Labeled ☒ Low Chord Elevations ☒ Top of Road Elevations

*All recurrence intervals in the effective study must also be profiled.

Floodway Data Table

Attach a Floodway Data Table for each cross section listed in the published Floodway Data table in the FIS report.

Floodway Data Table Attached ☒ **Yes** ☐ **Not Required**

Explanations
For
Riverine Hydraulic Analysis Form (Form 4)

1. Explanation for "2.Models Submitted"
The Duplicate Effective Model ("10.h2i") is an HEC-2 model developed by WLB in 1992 for the effective FIS. However, the effective floodplains downstream of RM 2.371 in WLB's HEC-2 model was delineated by an approximate method in the WLB's FIS though this HEC-2 model covers the area downstream of RM 2.371. "10.h2o" is the output file for "10.h2i". Both files are contained in the sub-directory of "FIShec2" in the attached disk (back of TDN Volume 2). The HEC-RAS model for this study is "bw-final.prj" contained in the attached disk (back of TDN Volume 2).

2. Explanation for "3. Starting Water-surface Elevations"
The downstream boundary condition (Gila River) specified in the HEC-RAS model is the slope-area method (0.002 ft/ft). After the HEC-RAS model is run, it is found that the computed water surface elevation at the downstream boundary (Gila River) is 906.58 ft. The 10-year water surface elevation in the Gila River is 906.3 ft per the FEMA study by Dames & Moore.

The upstream boundary condition specified in the HEC-RAS model is the "known water surface". The known water surface elevations (952.83 ft; 953.79 ft for floodway) are the existing 100-year water surface elevations (effective FIS).

3. Explanation for "4. Results"
The HEC-RAS results show the existence of the supercritical depth and critical depth along the Bullard Wash Channel (from 77+44 to 81+00; from 29+95 to 30+02). The supercritical and critical depth areas are limited to two sloping drop. Please see sheet 15 and 20 of the construction plans in Exhibit C.

4. Explanation for "5. Revised FIRM/FBFM and Flood Profiles"
No comparison can be made to show how the proposed water surface elevation and width at the <u>downstream end</u> are tied into the existing FIS because the existing FIS is an approximate study.

Floodway Data Table can be found in Table 7.2 of TDN Volume 2.

Flood Profiles can be found in Figure 7.2 of TDN Volume 2.

FEDERAL EMERGENCY MANAGEMENT AGENCY **RIVERINE / COASTAL MAPPING FORM**	O.M.B No. 3067-0148 Expires April 30, 2001

Public reporting burden for this form is estimated to average 1.5 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

Note: Fill out one form for each flooding source studied

Community Name: Town of Goodyear, Arizona

Flooding Source: Bullard Wash

Project Name/Identifier: Bullard Wash Channel Improvements

This is a ☒ Manual ☐ Digital submission. *Digital map submissions may be used to update digital FIRMs (DFIRMs). For updating DFIRMs, these submissions must be coordinated with FEMA Headquarters as far in advance as possible.*

1. MAPPING CHANGES

1. A topographic workmap must be submitted showing the following information (check N/A when not applicable):

a. Revised approximate 100-year floodplain boundaries (Zone A)	☒ Yes	☐ No	☐ N/A
b. Revised detailed 100- and 500-year floodplain boundaries.	☒ Yes	☐ No	☐ N/A
c. Revised floodway boundaries	☒ Yes	☐ No	☐ N/A
d. Location and alignment of all cross sections with stationing control indicated.	☒ Yes	☐ No	☐ N/A
e. Stream alignments, road alignments and dam alignments.	☒ Yes	☐ No	☐ N/A
f. Current community boundaries.	☒ Yes	☐ No	☐ N/A
g. Effective 100- year floodplain and floodway boundaries from FIRM/FBFM reduced or enlarged to the scale of the topographic workmap	☒ Yes	☐ No	☐ N/A
h. Tie-ins between the effective and revised 100-, 500-year and floodway boundaries	☒ Yes	☐ No	☐ N/A
i. The requester's property boundaries and community easements	☒ Yes	☐ No	☐ N/A
j. The signed certification of a registered professional engineer	☒ Yes	☐ No	☐ N/A
k. Location and description of reference marks	☒ Yes	☐ No	☐ N/A
l. Vertical datum (example: NGVD, NAVD)	☒ Yes	☐ No	☐ N/A
m. Coastal zone designations tie into adjacent areas not being revised	☐ Yes	☐ No	☒ N/A
n. Location and alignment of all coastal transects used to revise the coastal analyze	☐ Yes	☐ No	☒ N/A
o. V-zone has been delineated to extend landward to the heel of the primary frontal dune	☐ Yes	☐ No	☒ N/A

If any items are marked No or N/A please attach an explanation.

2. What is the source and date of the updated topographic information (example: orthophoto maps, July 1985; filed survey, May 1979, beach profile, June 1987 etc.)? Aerial photos (flying date 08/18/97); field survey (97-98)

3. What is the scale and contour interval of the following workmaps?

Effective FIS Scale 1" = 400' Contour Interval 2'

Revision Request Scale 1" = 40' Contour Interval 1' (see Exhibit C of TDN Volume 1 for detailed 1' contour mapping)'

NOTE: Revised topographic information must be of equal or greater detail than effective.

4. Attach an annotated FIRM/FBFM at the scale of the effective FIRM/FBFM showing the revised 100- and 500-year floodplain and the floodway boundaries and how they tie into those shown on the effective FIRM/FBFM downstream and upstream of the revisions or adjacent to the area of revision for coastal studies. **FIRM/FBFM attached?** ☒ **Yes** ☐ **No**

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

2. EARTH FILL PLACEMENT

1. The fill is: ☐ Existing ☐ Proposed

2. Has fill been/will be placed in the regulatory floodway? ☐ Yes ☐ No
If Yes, please attach completed Riverine Hydraulic Analysis Form (Form 4).

3. Has fill been/will be placed in floodway fringe (*area between the floodway and 100-year floodplain boundaries*)? ☐ Yes ☐ No

If Yes, then complete A, B, C, and D below.

a. Are fill slopes for granular materials steeper than one vertical on one-and-one-half horizontal? ☐ Yes ☐ No

If Yes, justify steeper slopes _____

b. Is adequate erosion protection provided for fill slopes exposed to moving flood waters? (*Slopes exposed to flows with velocities of up to 5 feet per second (fps) during the 100-year flood must, at a minimum, be protected by a cover of grass, vines, weeds, or similar vegetation; slopes exposed to flows with velocities greater than 5 fps during the 100-year flood must, at a minimum, be protected by stone or rock riprap.)*

☐ Yes ☐ No

If No, describe erosion protection provided _____

c. Has all fill placed in revised 100-year floodplain been compacted to 95 percent of the maximum density obtainable with the Standard Proctor Test Method or acceptable equivalent method? ☐ Yes ☐ No

d. Can structures conceivably be constructed on the fill at any time in the future? ☐ Yes ☐ No

If Yes, attach certification of fill compaction (item 3c. above) by the community's NFIP permit official, a registered professional engineer, or an accredited soils engineer in accordance with Subparagraph 65.5(a)(6) of the NFIP regulations.

Fill certification attached ☐ **Yes** ☐ **No**

4. Has fill been/will be placed in a V zone? ☐ Yes ☐ No

If Yes, is the fill protected from erosion by a flood control structure such as a revetment or seawall?

☐ Yes ☐ No

If Yes, attach the Coastal Structures Form (Form 10).

Explanations
For
Riverine / Coastal Mapping Form (Form 5)

1. Explanation for "1. Mapping Changes"
The topographic workmap entitled "Bullard Wash Channel Improvements" can be found in Figure 9 and Exhibit C of TDN Volume 1. The detailed topographic map can be found in Construction Plans (Exhibit A of TDN Volume 1).

Neither coastal zone nor V-zone exists.

The annotated FIRM can be found in Figure 7 of TDN Volume 1 or Figure 7.1 of TDN Volume 2.

FEDERAL EMERGENCY MANAGEMENT AGENCY **CHANNELIZATION FORM**	O.M.B. Burden No. 3067-0148 Expires April 30, 2001

PUBLIC BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1.75 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington, DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

Community Name: City of Goodyear, Arizona

Flooding Source: Tributary to Bullard Wash

Project Name/Identifier: Bullard Wash Channel Improvements/East Tributary Channel

1. REACH TO BE REVISED

Describe the limits of the revision **OR** submit a copy of the FIRM with the revision area clearly highlighted.
Copy of FIRM(s) attached depicting area of the revision (highlighted, or circled)? ☒ Yes

Downstream Limit: Sta 76+65.03(Bullard Wash) or Sta 0+00 (E. Trib);see Construction Plans (sheets 26,27,28) in Exhibit C

Upstream Limit: 2120 feet upstream of downstream limit along Southern Pacific Railrod (Sta 21+20 along E. Trib)

2. CHANNEL DESCRIPTION

Attach the following information about the channel (check box if information has been provided):

☒ Description of the inlet and outlet

☒ Description of the shape of the channel *(both cross sectional and planimetric configuration)* and its lining *(channel bottom and sides)*:

3. ACCESSORY STRUCTURES

The channelization includes:

- ☐ Levees *(Attach Levee/Floodwall System Analysis Form - Form 8)*
- ☒ Drop structures
- ☐ Superelevated sections
- ☐ Transitions in cross sectional geometry
- ☐ Debris basin/detention basin
- ☐ Energy dissipater
- ☐ Other (Describe):

4. DRAWING CHECKLIST

Attach the plans of the channelization certified by a registered professional engineer. The plan detail and information should include (check box if information has been provided):

☒ Channel alignment and locations of inlet, outlet, and accessory structures

☒ Channel lining

☒ Typical cross sections and profiles of channel banks and invert

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

5. HYDRAULIC CONSIDERATIONS

1. The channel was designed to carry 850 (cfs) and/or the 100-year flood.

2. The design elevation in the channel based on:

   ☒ Subcritical flow

   ☐ Critical flow

   ☒ Supercritical flow

   ☐ Energy grade line

3. **If there is the potential for a hydraulic jump at the following locations, check the box(es) that apply and attach an explanation of how the hydraulic jump is controlled without affecting the stability of the channel.**

Inlet to channel?	☐ Yes
Outlet of channel?	☐ Yes
At Drop Structures?	☒ Yes
At Transitions?	☐ Yes
Other locations?	☐ Yes

Explanation Attached? ☒ **Yes** ☐ **No** ☐ **N/A**

6. SEDIMENT TRANSPORT CONSIDERATIONS

If there is any indication from historical records that sediment transport (including scour and deposition) can affect the 100-year (base flood) water-surface elevations; and/or based on the stream geomorphology, vegetative cover, development of the watershed and bank conditions, there is a potential for debris and sediment transport (including sewer and deposition) to affect the base flood water-surface elevations, then provide the following information **(Check the box if provided):**

☐ Estimated sediment load

☐ Method used to estimate sediment transport

☐ Method used to estimate scour and/or deposition

☐ Method used to revise hydraulic or hydrologic analysis (model) to account for sediment transport

Explanations
For
Channelization Form (Form 6)

1. Explanation for "2. Channel Descriptions"

Inlets: (1) concrete inlet apron (shallow V-shape; about 110 ft long and 40 ft wide) with 4.58 ft deep drop structure at Sta 21+62.73;
(2) four 60-inch RGRCP from Sta 21+00 to 21+40;
Outlet: discharge into Bullard Wash Channel (concrete portion) at Sta 76+65.03 (Bullard Wash Channel) or Sta 0+00 (E. Tributary Channel)

The East Tributary Channel is a concrete trapezoidal channel (bottom width 15 ft; side slope: H:V = 1.5:1; about 2163 ft long). Please see the Construction Plan for more details (sheets 26, 27, and 28) in Exhibit C.

2. Explanation for "5. Hydraulic Considerations"

The design discharge is 850 cfs (100-year, 24-hr storm). Manning's equation is used to compute the depth and velocity throughout the channel. The flow in the channel is subcritical flow. The flow at the channel inlet (V-shape concrete apron) is supercritical flow. The velocities are 7.81 ft/s (Sta 0+40 – 8+60), 8.46 ft/s (Sta 8+60 – 10+00), 7.81 ft/s (Sta 10+20 – 21+62). The depths are 4.88 ft (Sta 0+40 – 8+60), 4.59 ft (Sta 8+60 – 10+00), 4.88 ft (Sta 10+20 – 21+62). The freeboards are 4 ft (0+40 – 10+00) and 2 ft (10+20 – 21+62.73).

There is potential hydraulic jump at drop structures. However, the stability of channel is not affected because the channel is concrete-lined.

Please see Form 6 of TDN Volume 2 for Bullard Wash Channel Channelization Form.

Please see Form 7 of TDN Volume 2 for Bridge/Culvert Forms

Please see Form 8 of TDN Volume 2 for Levee/Floodwall System Analysis Form

3.0 SURVEY AND MAPPING INFORMATION

Ground survey was conducted to produce 1-foot contour interval within the 400' channel corridor along the project area by Brooks, Hersey & Associates, Inc. (1997-1998). The project name used by Brooks, Hersey & Associates, Inc. is Estrella Parkway Section Corners. The base map is the 2-foot contour maps for White Tanks ADMS, which was used to produce the current effective FIS by WLB (1992). Additional aerial photos were taken to generate 2-foot contour intervals outside the 400' channel corridor by Cooper Aerial of Phoenix, Inc. (flight date: 08/18/1997). The project name used by Cooper Aerial of Phoenix, Inc. is Bullard Wash.

3.1 Field Survey Information

Copies of the ground survey notes are provided in Appendix C of this report. The vertical control is based on National Geodetic Vertical Datum (NGVD). The benchmark descriptions are as following:

Benchmark Descriptions	**Elevation**
MCHD Brass Cap in Hand Hole @ Intersection of Bullard Avenue & Broadway Road	922.00 ft
Aluminum Cap located on Headwall @ the Northeast corner of Bridge on MC85	933.43 ft
MCHD Brass Cap in Hand Hole Estrella Parkway & Broadway Road	913.18 ft
MCHD Brass Cap in Hand Hole Estrella Parkway & Lower Buckeye Road	952.11 ft
Brass Cap in Hand Hole at intersection of Lower Buckeye Road & 157th Avenue	949.87 ft
½" Rebar North ¼ Corner Section 20	942.97 ft

The horizontal control is based on a local coordinate system different from North American 1983 Datum. The following list shows the monument coordinates in both local coordinate system and NAD 83 coordinate system.

Monument	Coordinate System	Northing	Easting	Descriptions
T1N, R1W, South ¼ Corner Section 19	Local	44,664.30	42,124.07	½" Rebar
	NAD 83	875,722.90	552291.91	
T1N, R1W, North ¼ Corner Section 19	Local	49,935.69	42,130.89	½" Rebar
	NAD 83	880,994.30	552298.73	
T1N, R1W, West ¼ Corner Section 17	Local	52,607.29	44,672.28	Brasscap in Hand Hole
	NAD 83	883,665.89	554840.12	
T1N, R1W, Northwest Corner Section 17	Local	55,256.03	44,613.89	Stone with Drill Hole
	NAD 83	886,314.63	554781.73	
T1N, R1W, North ¼ Corner Section 17	Local	55,249.39	47,201.24	Cotton Picker Spindle
	NAD 83	886,307.99	557369.08	
T1N, R1W, West ¼ Corner Section 8	Local	57,894.44	44,615.50	Brasscap in Hand Hole
	NAD 83	88,8953.04	554783.34	
T1N, R1W, North ¼ Corner Section 18	Local	55,258.84	42,028.61	Cotton Picker Spindle
	NAD 83	88,6317.44	552196.45	

3.2 Mapping

Maps used in this study are from three sources. The first source is WLB's White Tanks ADMS which was used to produce effective FIS (WLB, 1992). The WLB's 2-foot contour maps are the base map for the project. The scale is 1"=400'. The hydrology watershed map is based on WLB's hydrology watershed map. The second source is ground survey data by Brooke, Hersey & Associates (02/18/97; 5/29/97; 9/18/97; 2/1998), which is used to generate the 1-foot contour within the 400' channel corridor (1"=40'). The third source is aerial photography and digital mapping by Cooper Aerial of Phoenix, Inc. (08/18/1998), which is used to produce 2-foot

contour intervals outside the 400' channel corridor. The controls for aerial photography are set by Brooke, Hersey & Associates. Detailed mapping work by Cooper Aerial of Phoenix, Inc. can be found in Appendix C and Exhibit A.

Please refer to Figure 6 or Exhibit B for detail of hydrology watershed mapping used for this study. Figure 7 shows the annotated FIRM map. As can be seen from Figure 7, the entire effective FIS floodplains (Zone A) from Lower Buckeye Road to Gila River is recommended to be replaced by the narrow Bullard Wash Channel to be designated as floodway. The East Tributary Channel is recommended to be designated as Zone A. The ponding area near the intersection of Bullard Wash Channel and Buckeye Irrigation District Canal is recommended to be designated as Zone AH. Figure 8 is the workmap showing the revised 1800' long floodplain north of Lower Buckeye Road along Bullard Wash. Figure 9 and Exhibit C show the proposed floodplains and the effective FIS floodplains. Exhibit A is the construction plan with the detailed topographic data. The soil and land-use maps are the same as those used in WLB (1992). No subsidence has been found in the project area (see Figure 10 for subsidence information).

4.0 HYDROLOGY

4.1 Method Description

The hydrology has two parts. The first part is the drainage area contributing to Bullard Wash Channel (Figure 6 and Exhibit B). The peak flowrate at the drainage area outlet is used for Bullard Wash Channel design (3200 cfs). The East Tributary Channel design is

Water-Level Change and Aquifer Compaction

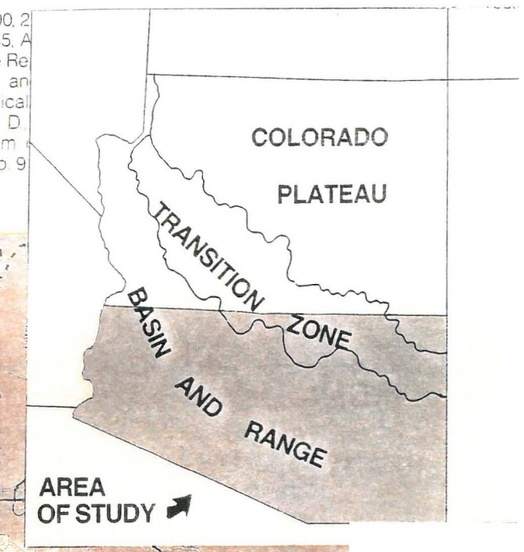
Throughout most of the study area, ground-water depletion has caused water levels in wells to decline, some by more than 550 ft (Thomsen and Baldys, 1985). Ground-water depletion has caused the aquifer system to compact. This compaction, in turn, has resulted in large areas of land subsidence.

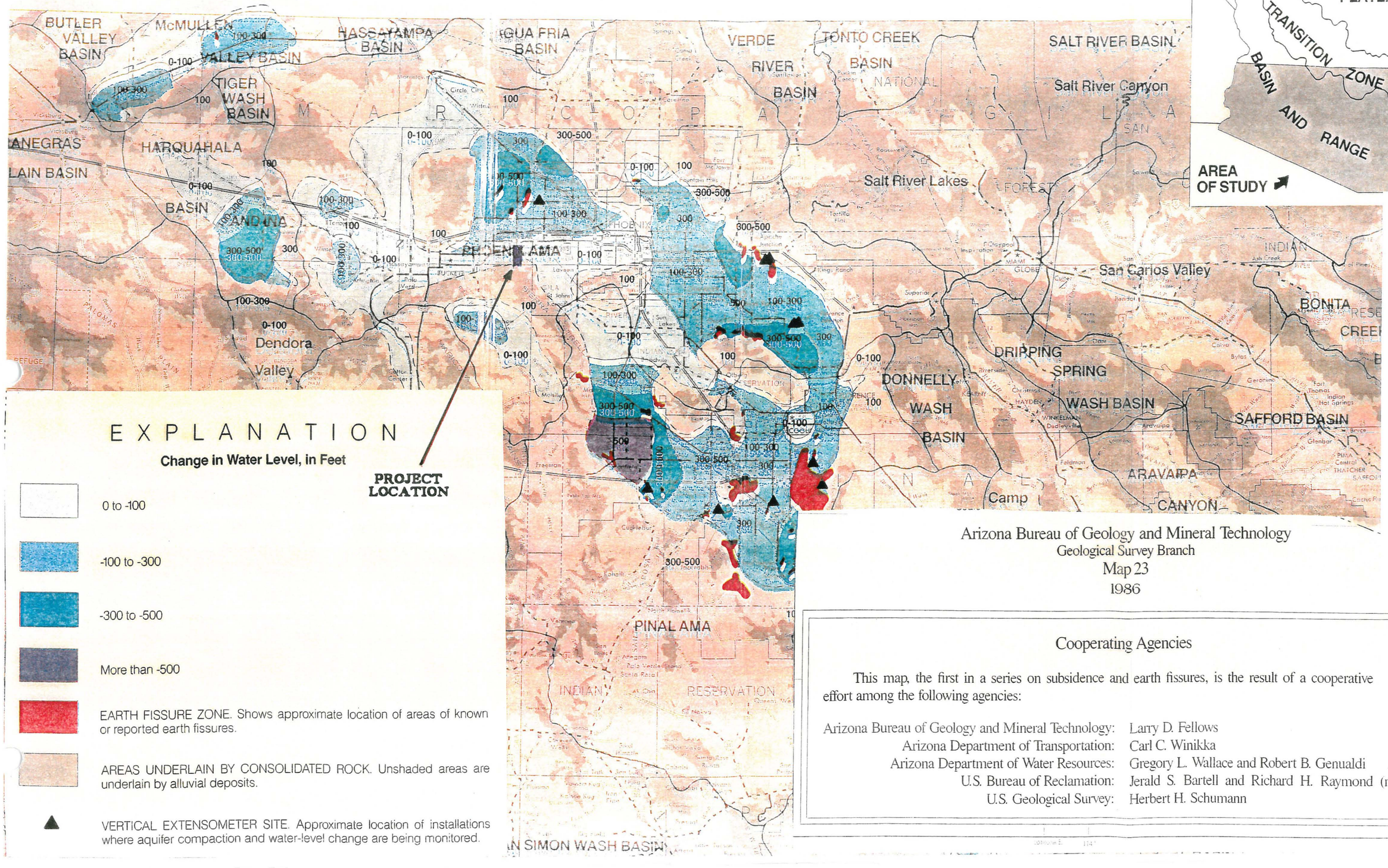
The relation between water-level change, aquifer compaction, and land subsidence in Arizona was first documented at the vertical extensometer installation near Eloy in the lower Santa Cruz basin and Avra Valleys; and Willcox and San Simon basins. Significant amounts of ground-water depletion have occurred in all of these areas.

Environmental Effects of Land Subsidence and Earth Fissures

Environmental effects of land subsidence and earth fissures include actual and potential damage to engineering structures, accelerated erosion along earth fissures and drainages, increased flood hazards, and the potential for ground-water pollution. Damaged engineering struc-

85-4073, scale 1:250,000, 2
U.S. Geological Survey, 1985, A
spring 1984: Open-File Re
Wilson, E. D., Moore, R. T., an
Mines and U.S. Geological
Winikka, C. C., and Wold, P. D.
international symposium o
ences Publication 121, p. 9





Arizona Bureau of Geology and Mineral Technology
Geological Survey Branch
Map 23
1986

Cooperating Agencies

This map, the first in a series on subsidence and earth fissures, is the result of a cooperative effort among the following agencies:

Arizona Bureau of Geology and Mineral Technology:	Larry D. Fellows
Arizona Department of Transportation:	Carl C. Winikka
Arizona Department of Water Resources:	Gregory L. Wallace and Robert B. Genualdi
U.S. Bureau of Reclamation:	Jerald S. Bartell and Richard H. Raymond (retired)
U.S. Geological Survey:	Herbert H. Schumann

Figure 10 Subsidence Map

also based on this hydrology (The East Tributary Channel is located along the north side of the railroad near the intersection of Bullard Avenue and Lower Buckeye Road). The second part is for an interior drainage area contributing to the northwest corner of the intersection of the Bullard Wash alignment and the Buckeye Irrigation District Canal. This report only documents the hydrology for Bullard Wash Channel. The discussion on the second part (interior drainage hydrology) can be found in TDN Volume 2.

The hydrologic model (HEC-1 model) for Bullard Wash Channel Improvements is developed to compute the 100-year, 24-hour peak flowrates for the Bullard Wash Channel and East Tributary Channel by modifying a 1992-FEMA-approved HEC-1 model for White Tanks/Agua Fria Area Drainage Master Study FIS (WLB, 1992) and the Dysart Drain HEC-1 model (WLB, 1993). The major modification is to account for the recently constructed Dysart Drain Channel Improvements project which increases the channel capacity allowing all the 100-year flows to be contained in the channel and carried to Agua-Fria River (Figure 11). The breakout flows along Dysart Drain are eliminated based on the Dysart Drain HEC-1 model (Figure 12). The filename for the Bullard Wash Improvements HEC-1 model is "bullab3.dat". Version 4.0 of HEC-1 (HEC, 1990) is used to run the model. The filename for the generated output file is "bullab3.out".

4.2 Parameter Estimation

4.2.1 Drainage Area Boundaries

The drainage area for Bullard Wash Channel Improvements can be found in

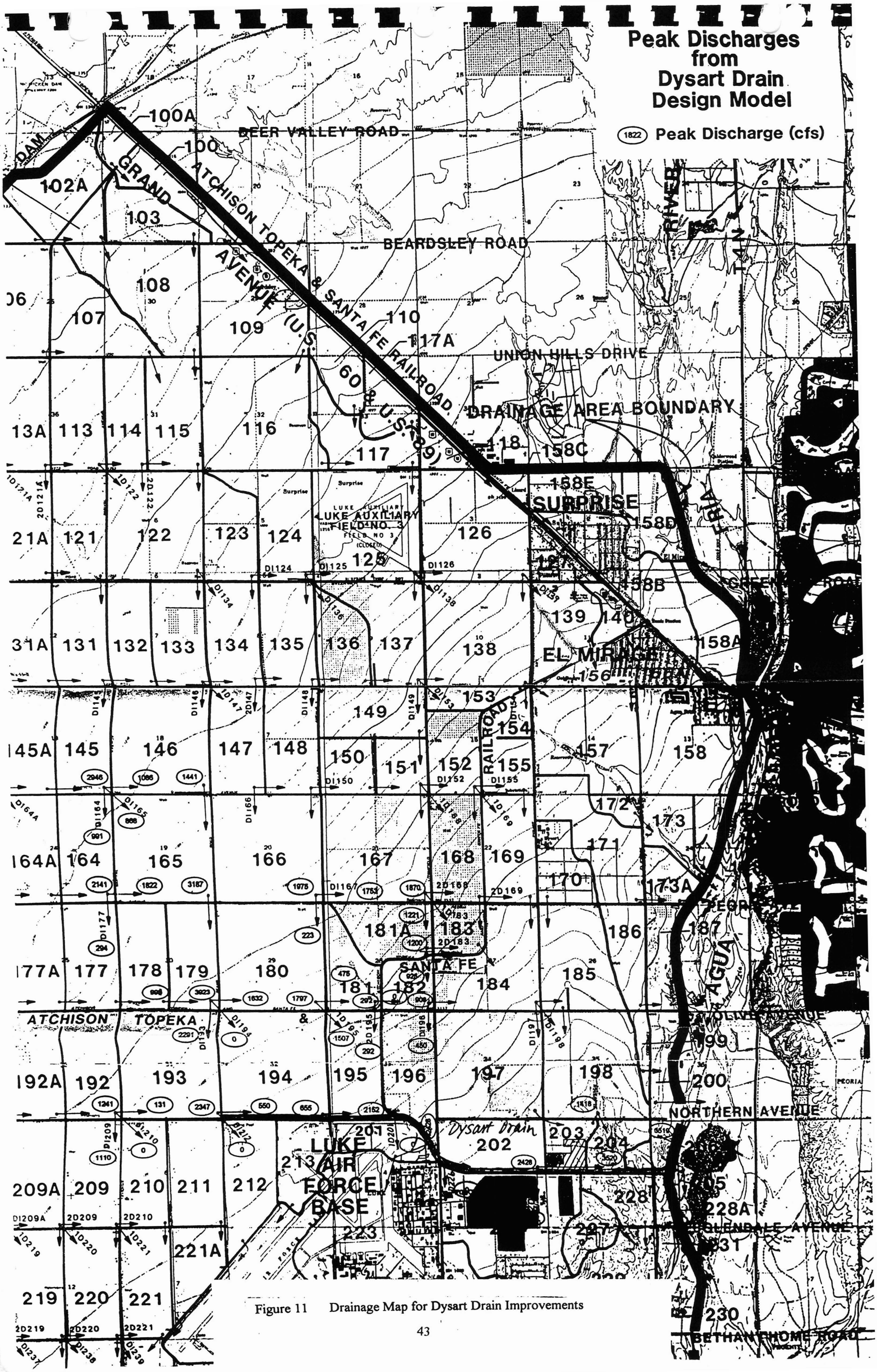


Figure 11 Drainage Map for Dysart Drain Improvements

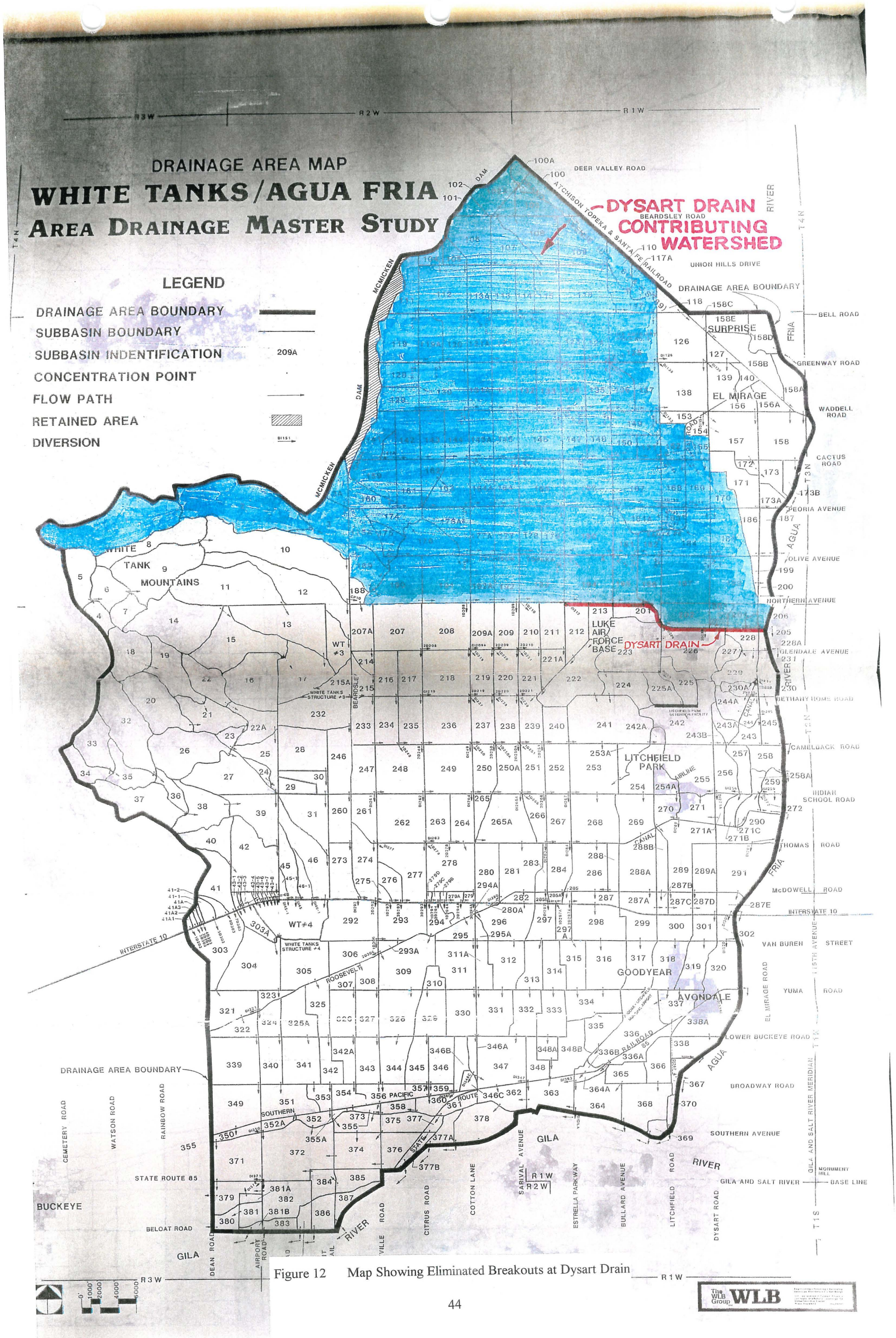


Figure 12 Map Showing Eliminated Breakouts at Dysart Drain

Figure 6 and Exhibit B. It is based on the drainage area map for the FEMA-approved White Tanks/Agua Fria Area Drainage Master Study effective FIS (WLB, 1992). The drainage area for Bullard Wash Channel Improvements is approximately 58 square miles.

4.2.2 Watershed Work Maps

The watershed work maps are the same as the maps for the FEMA-approved White Tanks/Agua Fria Area Drainage Master Study FIS (WLB, 1992). The reader is referred to the hydrology submittals for the White Tanks/Agua Fria Area Drainage Master Study (WLB, 1992).

4.2.3 Gage Data

No stream gages are located in the study area (WLB, 1992).

4.2.4 Statistical Parameters

As in the FEMA-approved White Tanks/Agua Fria Area Drainage Master Study FIS (WLB, 1992), no statistical analysis was performed because stream gage data is not available in this area. It should be pointed out that the Phoenix Valley S-graph unit hydrograph is based on a statistical analysis of stream flow in and around Maricopa County (WLB, 1992).

4.2.5 Precipitation

The precipitation data for the 100-year, 24-hour storm for this project is the same as the data for the White Tanks/Agua Fria Area Drainage Master Study FIS (WLB, 1992) which was developed from criteria as presented in the "Drainage

Design Manual for Maricopa County, Arizona, Volume I, Hydrology "(Sabol et al., 1995) and the "Precipitation-Frequency Atlas of the Western United States, Volume VIII – Arizona, NOAA Atlas" (Miller et al., 1973).

4.2.6 Physical Parameters

The major physical parameters are the same as those in the White Tanks/Agua Fria FIS (WLB, 1992). The physical parameters are for rainfall losses, unit hydrograph, channel routing, reservoir storage routing, diversions, hydrograph combinations, and Manning's roughness coefficient. The Green-Ampt loss method is used to compute the rainfall losses. The Phoenix S-Graph method is used to compute the unit hydrograph. The normal depth procedure is used for channel routing. The reader is referred to the White Tanks/Agua Fria FIS for the details of these parameters. The drainage area values in hydrograph combination cards and the channel routing steps (NSTEPS) are modified to account for the recently constructed Dysart Drain Improvements project which increases the channel capacity to carry all the 100-year flows to Agua Fria River (WLB, 1993). The breakout flows along Dysart Drain are eliminated. Please refer to Figure 11 and Figure 12 on Dysart Drain improvement project.

4.3 Problems Encountered during the Study

No special problems are encountered.

4.4 Calibration

As in the White Tanks/Agua Fria FIS (WLB, 1992), no calibration is performed

because there is no gage station within the watershed. However, comparison between this study and the White Tanks/Agua Fria FIS shows that the peak discharge at the Bullard Wash Improvements project area is less than that for the White Tanks/Agua Fria FIS. This is expected because the recently improved Dysart Drain intercepted all the 100-year flows and carry them to Agua Fria River (WLB, 1993). The breakout flows along Dysart Drain are eliminated (see Figure 11).

4.5 Final Results

The final results are obtained by running HEC-1 computer model (version 4.0). The input and output files are "bullab3.dat" and "bullab3.out", respectively. The detailed results are contained in "bullab3.out" in Appendix D7 of TDN Volume 1 (this report). The peak flowrates can be found in the summary table of "bullab3.out". The location for the Bullard Wash Channel Improvements project corresponds to the concentration point CP364A in "bullab3.out". As can be found in "bullab3.out", the peak flowrate at the Bullard Wash Channel Improvements (CP364A) is 3198 cfs. The time-of-peak is 20 hours. The design flow for the Bullard Wash Channel is 3200 cfs.

The HEC-1 model does not directly compute the peak flowrate for the East Tributary Channel because there is no concentration point to directly combine sub-basin 336 and 1I336. However, the peak flowrate for the East Tributary Channel can be conservatively estimated by adding the peak flowrates at 336 and 1I336.

The estimated flowrate will be slightly higher than the actual flowrate because the times-to-peak at 336 and 1I336 are slightly different (13.92 hrs and 13.83 hrs for 336 and 1I336, respectively). Adding the flowrates at 336 (552 cfs) and 1I336 (295 cfs) gives 847 cfs which is a conservative estimate of the flowrate for the East Tributary Channel.

5.0 HYDRAULICS

5.1 Method Description

The hydraulics for floodplain delineation has three parts. The first part is for the proposed Bullard Wash Channel to be delineated as floodway. The channel design capacity is 3200 cfs. The Bullard Wash Channel will remove the entire floodplains (Zone A) from Lower Buckeye Road to Gila River and reduce the 1800' long floodplains along Bullard Wash north of Lower Buckeye Road. Please refer to Figure 7, Figure 8, and Figure 9 for the annotated FIRM map, the revised floodplains from Lower Buckeye Road to 1800 ft north of Lower Buckeye Road, and the Bullard Wash Channel Improvements. The COE HEC-RAS v 2.1 microcomputer program is utilized to model the hydraulic characteristics of Bullard Wash Channel and the 1800' long segment of Bullard Wash north of Lower Buckeye Road. Cross section geometry is based on the proposed construction drawings as documented on Exhibit A. The detailed discussion on Bullard Wash Channel hydraulics (HEC-RAS) can be found in TDN Volume 2.

The second part hydraulics is for the East Tributary Channel to be delineated as Zone A. The channel design capacity is 850 cfs. Manning's equation is used to flow depth and velocity in the channel (Haestad Methods' Open Channel Flow Module, Version 3.43). Please refer to Appendix E6 of TDN Volume 2 for the hydraulic calculations for East Tributary Channel. The third part hydraulics is for the ponding area near the northeast corner of the Bullard Wash alignment and Buckeye Irrigation District Canal, which is to be delineated as Zone AH (913.3 ft water surface elevation). The hydrology for this ponding area is based on the interior drainage. Two pipe culverts collect the flow from the interior drainage and discharge water into the Buckeye Irrigation District Canal. CulvertMaster (v1.0) is used to compute the headwater surface elevation (913.3 ft). Please refer to Appendix E7 of TDN Volume 2 for hydraulic calculations for Interior Drainage Outlet Structure. The computed headwater surface elevation (913.3 ft) is then projected horizontally to determine the ponding area. Please refer to Figures 7-9 for the annotated FIRM map and Exhibit C of TDN Volume 2 for the workmap.

5.2 Work Study Map

Please refer to TDN Volume 2.

5.3 Parameter Estimation

Please refer to TDN Volume 2.

5.4 Cross Section Description

Please refer to TDN Volume 2.

5.5 Modeling Considerations

Please refer to TDN Volume 2.

5.6 Floodway Modeling

Please refer to TDN Volume 2.

5.7 Problems Encountered During the Study

Please refer to TDN Volume 2.

5.8 Calibration

Please refer to TDN Volume 2.

5.9 Final Results

Please refer to TDN Volume 2.

6.0 EROSION AND SEDIMENT TRANSPORT

Please refer to TDN Volume 2.

7.0 DRAFT FIS REPORT DATA

Please refer to TDN Volume 2.

Appendix A Data Collection and References

Appendix A1 Data Collection Summary

The following are the data collection summary cited in this report. Please refer to TDN Volume 2 for other summary cited in TDN Volume 2.

- Electronic copies of the White Tanks/Agua Fria ADMS HEC-1 input and output files, electronic copies of HEC-2 input files.
- Electronic copies of the Dysart Drain Improvement project HEC-1 input and output files
- A 24" x 36" copy of the White Tanks/Agua Fria ADMS Drainage Area Map.
- FEMA FIRM panel 04013C2070F, dated September 30, 1995.
- Digital floodplain maps and contour maps (in GIS format) for White Tanks/Agua Fria ADMS
- A 11" x 17" Dysart Drain contributing watershed map by WLB, 1993, Figure 6 in this report.
- A 11" x 17" Dysart Drain peak discharges map by WLB, 1993, Figure 7 in this report.
- A 11" x 17" reduced copy of the construction plans for the proposed Bullard Wash Outfall Channel by Sverdrup Civil, Inc., September 1998, included in Exhibit A.
- A 24" x 36" construction plans for the proposed Bullard Wash Outfall Channel by Sverdrup Civil, Inc., September 1998, under a separate cover.

Appendix A2 List of References

The following are the references cited in this report. Please refer to TDN Volume 2 for other references cited in TDN Volume 2.

Hydrologic Engineering Center (1991). "HEC-1 Flood Hydrograph Package, User's

Manual," US Army Corps of Engineers.

Miller, J.F., Frederick. R.H., and Tracey, R.J. (1973). "Precipitation-Frequency Atlas of the Western United States, VIII: Arizona, NOAA Atlas 2," National Oceanic and Atmospheric Administration, Silver Spring, Maryland.

Sabol, G. V., Rumann, J. M., Khalili, D., Waters, S. D., and T. Lehman (January, 1995). "Drainage Design Manual for Maricopa County, Arizona, Volume I, Hydrology, " prepared for Flood Control District of Maricopa County.

Stanley Consultants, Inc. (1995). "*Bullard Wash Outfall Feasibility Study (FCD 94-06), Volume 1 of 2*," prepared for Flood Control District of Maricopa County,

WLB Group, (1992). "White Tanks/Agua Fria Area Drainage Master Study: Flood Study Technical Data Notebook"

WLB Group, (1993). "Dysart Drain Improvement Project: Concept Design Study Selected Alternative," Prepared for Flood Control District of Maricopa County.

Appendix B General Documentation & Correspondence

Please refer to Appendix B of TDN Volume 2.

Appendix C Survey Field Notes

BROOKS, HERSEY & ASSOCIATES, INC.
ENGINEERS/SURVEYORS
CONSTRUCTION ADMINISTRATORS

October 13, 1997

Brad Olbert
Sverdrup
432 North 44th Street, #250
Phoenix, Arizona 85008

Re: **Bench Marks for Estrella Parkway/Bullard Wash**

Dear Brad,

Please note the following benchmarks for the above mentioned project. These benchmarks should be easily identifiable on your plans.

BENCHMARK DESCRIPTION	ELEVATION
MCHD Brass Cap in Hand Hole @ Intersection of Bullard Avenue & Broadway Road	922.00
Aluminum Cap located on Headwall @ the Northeast corner of Bridge on MC 85	933.43
MCHD Brass Cap in Hand Hole Estrella Parkway & Broadway Road	913.18
MCHD Brass Cap in Hand Hole Estrella Parkway & Lower Buckeye Road	952.11
Brass Cap in Hand Hole at intersection of Lower Buckeye Road & 157th Avenue	949.87
½" Rebar North ¼ Corner Section 20	942.97

You may reach me at 437-3733 if you have any questions.

Sincerely,
Brooks, Hersey and Associates, Inc.

Allen C. Aerni, R.L.S.
Survey Manager

ACA/nef

4602 E. Elwood Street #16
Phoenix, Arizona 85040-1960
PH (602) 437-3733
FAX (602) 858-0204

BROOKS, HERSEY & ASSOCIATES, INC.
ENGINEERS/SURVEYORS
CONSTRUCTION ADMINISTRATORS

September 12, 1997

Brad Olbert
Sverdrup
432 North 44th Street, #250
Phoenix, Arizona 85008

Re: **Estrella Parkway Section Corners**

Dear Brad,

Please note the following coordinates and monument description to be used for control for the above referenced project.

Township 1 North, Range 1 West

SECTION CORNER	NORTHING	EASTING	DESCRIPTION
South ¼ Corner Section 19	44,664.30	42,124.07	½" Rebar

Please call if I can be of further assistance.

Sincerely,
Brooks, Hersey & Associates, Inc.

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
24513
ALLEN C.
AERNI
Date Signed 9-12-97
ARIZONA, U.S.A.

Allen C. Aerni, R.L.S.
Survey Manager

ACA/nef

C:\WPDOCS\WPACA\ESTRLA-2.LTR

4602 E. Elwood Street #16
Phoenix, Arizona 85040-1960
PH (602) 437-3733
FAX (602) 858-0204

BROOKS, HERSEY & ASSOCIATES, INC.
ENGINEERS/SURVEYORS
CONSTRUCTION ADMINISTRATORS

September 2, 1997

Brad Olbert
Sverdrup
432 North 44th Street, #250
Phoenix, Arizona 85008

Re: **Estrella Parkway Section Corners**

Dear Brad,

Please note the following coordinates and monument description to be used for control for the above referenced project.

Township 1 North, Range 1 West

SECTION CORNER	NORTHING	EASTING	DESCRIPTION
North ¼ Corner Section 19	49,935.69	42,130.89	½" Rebar
West ¼ Corner Section 17	52,607.29	44,672.28	Brasscap in Hand Hole
Northwest Corner Section 17	55,256.03	44,613.89	Stone with Drill Hole
North ¼ Corner Section 17	55,249.39	47,201.24	Cotton Picker Spindle
West ¼ Corner Section 8	57,894.44	44,615.50	Brasscap in Hand Hole
North ¼ Corner Section 18	55,258.84	42,028.61	Cotton Picker Spindle

Please call if I can be of further assistance.

Sincerely,
Brooks, Hersey & Associates, Inc.

REGISTERED LAND SURVEYOR
CERTIFICATE NO. 24513
ALLEN C. AERNI
Date Signed 9-3-97
ARIZONA, U.S.A.

Allen C. Aerni, R.L.S.
Survey Manager

ACA/nef

C:\WPDOCS\HHACA\ESTRLA.LTR

4602 E. Elwood Street #16
Phoenix, Arizona 85040-1960
PH (602) 437-3733
FAX (602) 858-0204

SVERDRUP

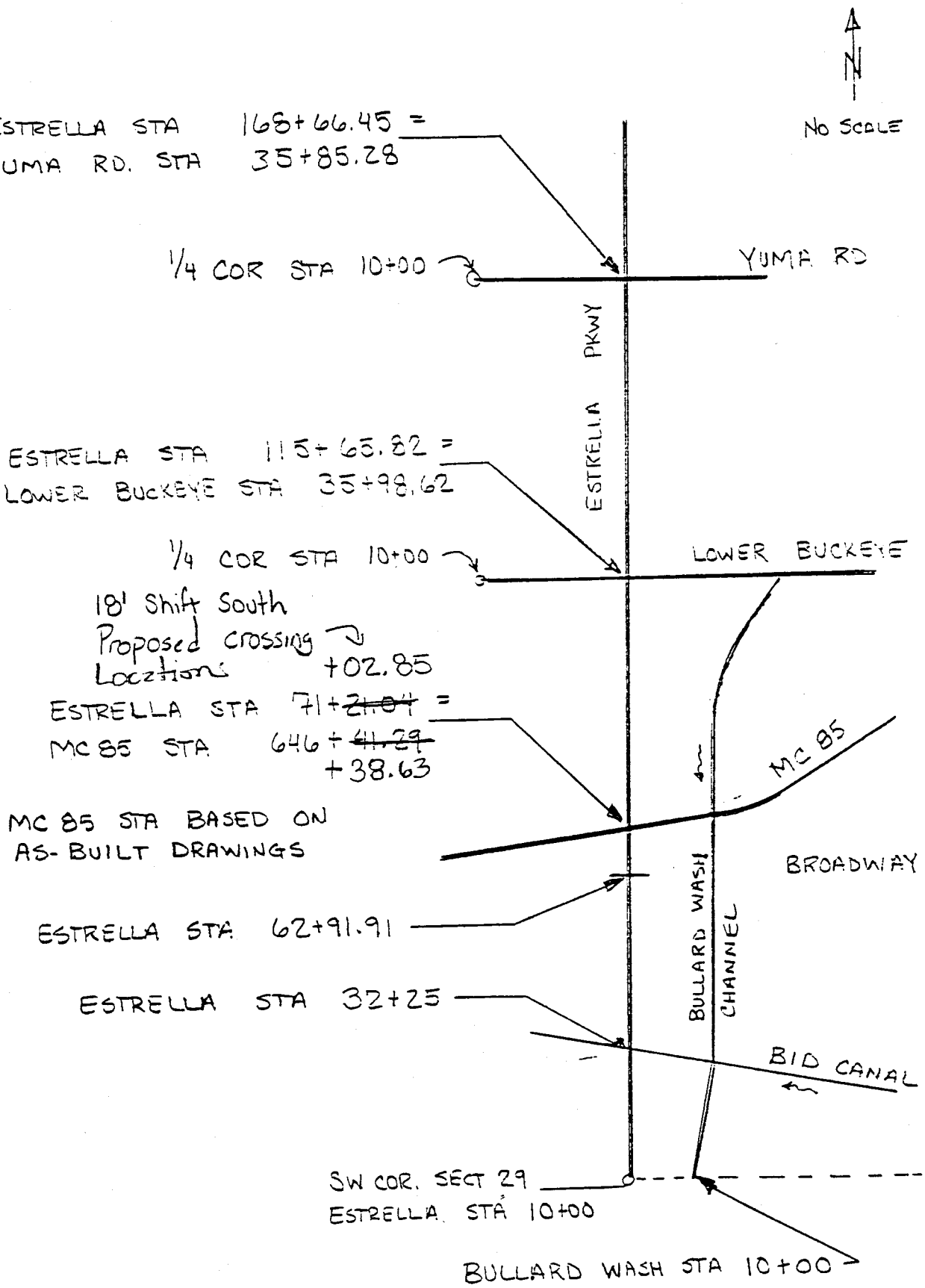
JOB BULLARD WASH CHANNEL IMPROVEMENTS FINAL DESIGN

COMPUTATIONS FOR PROJECT STATIONING

SHEET NO. 1 OF 1

DATE 12 SEP 97

BY SWG CHKD



DATA COLLECTOR CODES

ROAD

R1	B.C. IN H.H.
R2	B.C. FLUSH
R3	GUTTER
RA	APRON
RB	BACK OF CURB
RC	CENTER LINE
RD	DRIVE-WAY
RE	EDGE OF PAVING
RF	FLOW LINE
RG	SIGN
RH	A/C @ FACE OF CURB
RI	EDGE OF ROAD (WHAT TYPE)
RJ	DEPRESSED CURB
RK	P.K. NAIL
RL	LIP OF GUTTER
RM	MONUMENT LINE
RN	BULL NOSE
RO	CURB OPENING
RP	PAVING
RR	RETURN
RS	SHOULD
RT	TOE
RU	RETENTION
RV	VALLEY GUTTER
RW	WALK
RX	EXTRUDED CURB
RY	MEDIAN
RZ	MISCELLANEOUS

SEWER

SC	CLEAN-OUT
SL	SEWER LINE
SM	MANHOLE
SY	TAP
SZ	MISCELLANEOUS

WATER

WF	FIRE HYDRANT
WL	WATER LINE
WM	WATER METER
WP	WATER PIPE
WT	TAIL WATER
WV	WATER VALVE
WZ	MISCELLANEOUS

NOTE AIRPLANE TIE POINT

STORM DRAIN

HC	CATCH BASIN
HD	DRY WELL
HM	MANHOLE
HP	PIPE
HS	STORM DRAIN
HZ	MISCELLANEOUS

IRRIGATION

IC	CONCRETE TOE
ID	TAIL WATER
IE	CONCRETE SHOULDER
IF	FLOW LINE
IG	GROUND
IH	HEADWALL
II	IRRIGATION BOX
IP	STANDPIPE
IS	SHOULDER
IT	TOE
IV	IRRIGATION VALVE
IW	WING WALL
IZ	MISCELLANEOUS

STRUCTURES

BA	AIR CONDITIONING
BB	BUILDING SIGN
BC	CORNER BUILDING
BD	EDGE OF SWIMMING POOL
BE	EDGE OF WALK
BF	FINISHED FLOOR
BG	GENERATOR
BH	PUMP (WHAT KIND)
BI	PATIO
BJ	CURB STOPS
BK	PARKING
BL	RAILS
BN	ANGLE POINT
BO	OVER-HANG
BP	EDGE OF PLANTER
BR	RAMP
BS	STAIRS
BT	CONDUIT
BU	COLUMN
BV	MAILBOX
BY	YARD
BZ	MISCELLANEOUS

TELEPHONE

TM	TELE. MANHOLE
TR	TELE. RISE

MISC.

PT	PALM TREE
TT	TREE
TV	CABLE TV

ELECTRIC

EB	ELECTRIC BOX
EE	ELECTRIC METER
EF	TRANSFORMER (PAD OF BOX)
EG	GUY WIRE (OR POLE)
EI	PEDESTRIAN LITE
EL	TRAFFIC LITE
EM	MANHOLE
EN	LINE
EP	POWER POLE
ER	RISE (WHAT KIND)
ES	STREET LITE
ET	TRAFFIC CONTROL BOX
EU	UTILITY POLE
EV	SERVICE POLE
EZ	MISCELLANEOUS

GAS

GB	BLUE LINE
GH	GAS MANHOLE
GL	GAS LINE
GM	GAS METER
GV	GAS VALVE
GZ	MISCELLANEOUS

WALLS OR FENCES

FA	ANGLE POINT (WHAT TYPE)
FB	BACK WALL (WHAT TYPE)
FC	FENCE CORNER (WHAT TYPE)
FF	END WALL OR FENCE (WHAT TYPE)
FL	FACE WALL (WHAT TYPE)
FL	FENCE LINE (WHAT TYPE)
FT	TOP WALL (WHAT TYPE)
FZ	MISCELLANEOUS

SVERDRUP

JOB Bullard / Estrella

COMPUTATIONS FOR Survey

SHEET NO. _____ OF _____

DATE _____

BY _____ CHKD _____

Undefined Survey Codes

FL IG -

FO

FO RG

FO / RE

RB MOC Back of Curb

TH

~~FFS~~

FL MOC

MOC

OP IG

~~STR~~ South Top of Rail

TH

TT

RP (where on pavement)

```
*BULLARD WASH (SURVEY DATA #1)
DELETE COORDINATES (1-50)
STORE   6       42058.61        44753.81        910.84  *START
STORE   16      49956.32        44730.04        952.11  *R1
STORE   18      44682.70        44739.93        913.18  *R1
STORE   40      45578.29        44771.85        917.91  *TRAV.PT.
STORE   48      41682.60        44751.59        913.30  *TRAV.PT.
STORE   49      42694.57        44803.17        909.12  *TRAV.PT.
STORE   50      43285.43        44791.35        910.57  *TRAV.PT.
STORE   51      43887.74        44804.91        912.49  *TRAV.PT.
STORE   52      44348.14        44799.30        913.43  *TRAV.PT.
STORE   53      45107.10        44677.84        914.90  *TRAV.PT.
STORE   54      46036.49        44757.90        923.91  *TRAV.PT.
STORE   55      46495.12        44705.47        927.75  *TRAV.PT.
STORE   56      47003.41        44706.19        932.48  *TRAV.PT.
STORE   57      47361.17        44693.99        934.92  *TRAV.PT.
STORE   58      47861.72        44697.80        937.15  *TRAV.PT.
STORE   59      48364.55        44701.62        939.57  *TRAV.PT.
STORE   60      48864.93        44705.43        944.55  *TRAV.PT.
STORE   61      49368.22        44697.12        947.78  *TRAV.PT.
STORE   62      49617.89        44690.04        949.57  *TRAV.PT.
STORE   63      50465.81        44682.62        952.21  *TRAV.PT.
STORE   64      50958.87        44671.78        957.31  *TRAV.PT.
STORE   65      51464.70        44661.35        959.52  *TRAV.PT.
STORE   66      51755.86        44691.25        -99999.00       *.
STORE   67      49952.38        44230.71        953.64  *TRAV.PT.
STORE   68      49948.42        43729.17        952.81  *TRAV.PT.
STORE   69      49944.46        43226.86        951.45  *TRAV.PT.
STORE   70      49941.82        42891.47        949.87  *R1
STORE   100     41586.83        44684.39        910.16  *IG
STORE   101     41584.21        44740.46        911.07  *IG
STORE   102     41583.63        44758.87        912.90  *RE
STORE   103     41581.25        44773.26        912.77  *RC
STORE   104     41578.07        44794.87        912.49  *RE
STORE   105     41575.69        44832.55        911.47  *IG
STORE   106     41573.88        44882.89        910.06  *IG
STORE   107     41649.23        44822.43        900.63  *INV.24INCONCPIPE
STORE   108     41678.02        44874.47        908.95  *IG
STORE   109     41683.63        44826.14        909.69  *IG
STORE   110     41688.36        44794.11        912.94  *RE
STORE   111     41692.04        44772.53        913.15  *RC
STORE   112     41694.23        44758.20        913.30  *RE
STORE   113     41674.77        44758.28        913.29  *RE
STORE   114     41668.79        44794.26        912.77  *RE
STORE   115     41694.50        44752.79        913.43  *IG
STORE   116     41694.00        44692.55        908.27  *IG
STORE   117     41696.36        44660.18        907.70  *IG
STORE   118     41751.32        44825.52        912.01  *IH
STORE   119     41751.30        44820.43        912.03  *IH
STORE   120     41754.38        44815.11        912.00  *IH
STORE   121     41761.23        44814.92        912.02  *IH
STORE   122     41756.25        44815.90        908.44  *INV 24IN CMP
STORE   123     41753.72        44818.04        906.33  *INV 42IN CMP
STORE   124     41730.69        44921.97        911.93  *TOP
STORE   125     41737.47        44922.72        907.01  *TOE
STORE   126     41739.61        44922.71        907.19  *TOE
STORE   127     41746.34        44924.38        911.64  *TOP
STORE   128     41749.54        44903.69        911.03  *TOP
STORE   129     41742.96        44902.56        907.22  *TOE
STORE   130     41740.87        44902.43        907.13  *TOE
STORE   131     41734.68        44901.29        911.51  *TOP
STORE   132     41737.97        44876.69        912.15  *TOP
STORE   133     41743.93        44877.32        907.05  *TOE
STORE   134     41745.86        44878.07        907.10  *TOE
STORE   135     41755.51        44879.51        911.79  *TOP
STORE   136     41759.62        44854.75        911.56  *TOP
STORE   137     41750.71        44854.46        907.07  *TOE
STORE   138     41748.73        44853.43        907.00  *TOE
STORE   139     41740.78        44851.12        913.10  *TOP
STORE   140     41860.89        44805.03        911.73  *TOP
STORE   141     41860.77        44813.60        906.90  *TOE
STORE   142     41834.80        44814.61        906.49  *TOE
STORE   143     41834.29        44806.40        912.27  *TOP
STORE   144     41808.87        44806.81        912.56  *TOP
STORE   145     41809.05        44815.67        906.58  *TOE
STORE   146     41781.74        44814.15        906.75  *TOE
STORE   147     41782.08        44806.79        912.07  *TOP
STORE   148     41781.69        44830.98        911.79  *TOP
STORE   149     41781.65        44820.90        906.65  *TOE
```

STORE	150	41808.57	44822.86	906.85	*TOE
STORE	151	41809.11	44835.69	911.83	*TOP
STORE	152	41835.81	44834.43	911.82	*TOP
STORE	153	41833.72	44819.84	906.41	*TOE
STORE	154	41860.64	44820.20	906.83	*TOE
STORE	155	41860.50	44831.33	911.28	*TOP
STORE	156	41780.54	44888.33	910.91	*IG
STORE	157	41781.99	44804.92	911.67	*IG
STORE	158	41782.95	44792.32	912.05	*RE
STORE	159	41783.01	44771.95	912.32	*RC
STORE	160	41783.15	44757.84	912.41	*RE
STORE	161	41783.30	44732.20	912.10	*IG
STORE	162	41783.08	44727.94	912.86	*IG
STORE	163	41782.01	44696.60	912.38	*IG
STORE	164	41781.96	44689.37	911.48	*IG
STORE	165	41782.08	44675.81	911.44	*IG
STORE	166	41781.32	44669.13	912.29	*IG
STORE	167	41799.65	44724.53	911.72	*IW
STORE	168	41800.40	44727.74	911.74	*IW
STORE	169	41805.00	44730.56	911.70	*IW
STORE	170	41808.59	44728.53	911.68	*IW
STORE	171	41803.00	44729.05	907.24	*INV 24IN CMP
STORE	172	41896.88	44744.97	910.57	*TOP
STORE	173	41896.86	44737.68	908.59	*TOE
STORE	174	41896.92	44734.21	908.65	*TOE
STORE	175	41896.19	44728.42	911.35	*TOP
STORE	176	41874.29	44729.65	911.19	*TOP
STORE	177	41874.64	44734.27	908.53	*TOE
STORE	178	41874.87	44738.08	908.58	*TOE
STORE	179	41874.77	44745.26	910.50	*TOP
STORE	180	41851.66	44744.69	910.87	*TOP
STORE	181	41851.46	44738.45	908.38	*TOE
STORE	182	41851.43	44735.47	908.40	*TOE
STORE	183	41851.00	44730.32	911.12	*TOP
STORE	184	41835.57	44727.14	911.12	*TOP
STORE	185	41833.03	44731.88	908.38	*TOE
STORE	186	41831.80	44734.37	908.49	*TOE
STORE	187	41829.00	44739.01	910.98	*TOP
STORE	188	41883.04	44771.42	910.91	*RC
STORE	189	41883.00	44757.33	910.99	*RE
STORE	190	41883.38	44744.88	910.61	*TOP
STORE	191	41883.71	44737.31	908.39	*TOE
STORE	192	41883.86	44734.41	908.24	*TOE
STORE	193	41883.02	44729.02	911.15	*TOP
STORE	194	41883.47	44696.03	911.21	*IG
STORE	195	41883.33	44664.59	910.98	*IG
STORE	196	41882.45	44789.28	910.74	*RE
STORE	197	41882.28	44803.18	910.70	*IG
STORE	198	41881.72	44808.54	910.99	*TOP
STORE	199	41881.75	44815.02	906.74	*TOE
STORE	200	41880.46	44820.62	906.55	*TOE
STORE	201	41880.00	44829.79	911.68	*TOP
STORE	202	41880.31	44843.19	912.18	*IG
STORE	203	41881.19	44862.00	910.40	*IG
STORE	204	41881.47	44891.95	910.30	*IG
STORE	205	41984.77	44913.38	910.46	*IG
STORE	206	41984.96	44860.42	910.60	*IG
STORE	207	41983.98	44845.91	912.49	*IG
STORE	208	41984.00	44831.51	912.13	*TOP
STORE	209	41983.74	44822.23	906.69	*TOE
STORE	210	41984.34	44817.18	906.67	*TOE
STORE	211	41984.22	44812.74	909.57	*TOP
STORE	212	41968.34	44795.45	910.55	*RG
STORE	213	41984.37	44798.87	909.50	*IG
STORE	214	41984.01	44786.58	910.23	*RE
STORE	215	41983.58	44770.78	910.60	*RC
STORE	216	41984.07	44756.60	910.72	*RE
STORE	217	41984.21	44737.71	910.09	*TOP
STORE	218	41970.38	44745.45	910.85	*RG
STORE	219	41984.46	44735.89	908.88	*TOE
STORE	220	41984.31	44733.15	908.69	*TOE
STORE	221	41983.24	44727.11	911.79	*TOP
STORE	222	41991.64	44731.05	911.35	*RG
STORE	223	41990.55	44728.92	911.53	*RG
STORE	224	41983.97	44695.63	911.88	*IG
STORE	225	41981.29	44671.05	911.84	*IG
STORE	226	41986.21	44734.57	908.69	*INV 24IN CMP
STORE	227	41916.96	44744.62	910.64	*TOP
STORE	228	41917.00	44737.58	908.80	*TOE

STORE	229	41916.55	44733.78	908.64	*TOE
STORE	230	41917.08	44728.34	911.45	*TOP
STORE	231	41938.98	44728.25	911.44	*TOP
STORE	232	41938.97	44734.00	908.68	*TOE
STORE	233	41938.94	44737.25	908.68	*TOE
STORE	234	41939.41	44744.61	910.62	*TOP
STORE	235	42016.26	44819.03	905.68	*INV 42INCONCPIPE
STORE	236	42053.37	44818.27	905.80	*INV 42INCONCPIPE
STORE	237	42060.89	44811.15	911.93	*IW
STORE	238	42052.48	44811.16	911.92	*IW
STORE	239	42052.65	44822.15	911.95	*IH
STORE	240	42059.03	44821.96	911.93	*IH
STORE	241	42054.90	44821.22	908.83	*INV 18INCONCPIPE
STORE	242	42052.02	44830.34	911.77	*GATEPOST
STORE	243	42022.03	44829.39	911.37	*GATEPOST
STORE	244	41960.40	44832.68	911.89	*TOP
STORE	245	41960.21	44824.09	906.79	*TOE
STORE	246	41936.73	44822.82	906.64	*TOE
STORE	247	41936.11	44833.07	912.24	*TOP
STORE	248	41911.98	44832.18	912.05	*TOP
STORE	249	41912.42	44822.38	906.68	*TOE
STORE	250	41993.17	44817.30	906.54	*TOE
STORE	251	41992.43	44810.73	909.84	*TOP
STORE	252	41960.92	44811.82	909.92	*TOP
STORE	253	41961.00	44818.63	906.77	*TOE
STORE	254	41936.13	44810.78	910.51	*TOP
STORE	255	41936.43	44817.55	906.57	*TOE
STORE	256	42032.27	44732.89	911.03	*RG
STORE	257	42036.37	44734.92	908.86	*INV 24IN CMP
STORE	258	42060.35	44741.23	910.38	*TOP
STORE	259	42060.65	44736.52	908.95	*IF
STORE	260	42059.61	44725.46	911.39	*TOP
STORE	261	42085.42	44724.92	911.42	*TOP
STORE	262	42084.79	44736.70	909.15	*TOE
STORE	263	42084.75	44739.25	908.98	*TOE
STORE	264	42084.46	44743.03	910.25	*TOP
STORE	265	42085.95	44656.81	910.68	*IG
STORE	266	42084.94	44685.18	910.54	*IG
STORE	267	42085.57	44715.97	910.62	*IG
STORE	268	42085.57	44719.93	911.58	*IG
STORE	269	42083.99	44756.41	910.99	*RE
STORE	270	42112.06	44751.80	910.65	*RG
STORE	271	42112.44	44748.12	910.37	*RG
STORE	272	42083.90	44770.46	910.80	*RC
STORE	273	42083.54	44784.72	910.34	*RE
STORE	274	42083.74	44812.55	909.36	*TOP
STORE	275	42083.58	44817.84	906.88	*TOE
STORE	276	42086.85	44821.27	906.70	*TOE
STORE	277	42086.83	44832.92	911.61	*TOP
STORE	278	42087.60	44848.93	911.99	*IG
STORE	279	42087.72	44851.89	911.10	*IG
STORE	280	42087.35	44885.51	910.61	*IG
STORE	281	42185.00	44886.05	910.84	*IG
STORE	282	42184.90	44850.88	911.03	*IG
STORE	283	42184.95	44845.79	912.14	*IG
STORE	284	42186.20	44829.73	912.20	*TOP
STORE	285	42186.06	44820.86	906.84	*TOE
STORE	286	42285.20	44816.98	906.83	*TOE
STORE	287	42284.70	44826.63	912.28	*TOP
STORE	288	42285.43	44842.81	912.34	*IG
STORE	289	42285.60	44848.24	911.18	*IG
STORE	290	42286.84	44885.64	911.07	*IG
STORE	291	42384.32	44815.77	907.00	*TOE
STORE	292	42383.17	44825.45	912.52	*TOP
STORE	293	42383.50	44841.58	912.52	*IG
STORE	294	42384.38	44847.66	911.30	*IG
STORE	295	42386.47	44882.03	911.22	*IG
STORE	296	42183.50	44817.61	906.93	*TOE
STORE	297	42183.65	44810.66	909.22	*TOP
STORE	298	42184.65	44798.86	909.46	*IG
STORE	299	42185.19	44792.46	910.49	*IG
STORE	300	42185.31	44783.68	910.66	*RE
STORE	301	42184.37	44769.94	911.01	*RC
STORE	302	42184.16	44756.09	911.11	*RE
STORE	303	42184.04	44738.25	909.52	*IF
STORE	304	42184.52	44719.66	911.93	*TOP
STORE	305	42184.58	44716.92	910.83	*IG
STORE	306	42181.70	44666.73	910.87	*IG
STORE	307	42286.94	44670.23	910.94	*IG

STORE	308	42285.88	44716.05	910.78	*IG
STORE	309	42284.81	44718.66	911.85	*TOP
STORE	310	42284.45	44738.41	909.54	*IF
STORE	311	42284.31	44755.62	911.34	*RE
STORE	312	42284.56	44769.76	911.18	*RC
STORE	313	42284.77	44783.10	910.82	*RE
STORE	314	42284.53	44808.82	908.93	*TOP
STORE	315	42284.98	44813.94	906.87	*TOE
STORE	316	42384.90	44813.02	906.99	*TOE
STORE	317	42384.95	44808.11	909.01	*TOP
STORE	318	42384.31	44783.07	911.08	*RE
STORE	319	42384.99	44769.33	911.42	*RC
STORE	320	42384.67	44755.37	911.52	*RE
STORE	321	42384.92	44737.43	909.55	*IF
STORE	322	42385.06	44718.43	911.85	*TOP
STORE	323	42384.74	44714.96	910.79	*IG
STORE	324	42382.81	44661.27	910.89	*IG
STORE	325	42485.96	44816.73	907.13	*TOE
STORE	326	42486.78	44825.22	912.34	*TOP
STORE	327	42486.69	44840.70	912.56	*IG
STORE	328	42486.62	44845.41	911.37	*IG
STORE	329	42483.44	44895.03	911.30	*IG
STORE	330	42586.34	44814.47	907.14	*TOE
STORE	331	42586.71	44822.91	912.75	*TOP
STORE	332	42586.15	44839.76	912.96	*IG
STORE	333	42586.05	44844.73	911.61	*IG
STORE	334	42584.94	44882.31	911.51	*IG
STORE	335	42683.20	44888.66	911.57	*IG
STORE	336	42684.52	44844.06	911.84	*IG
STORE	337	42684.75	44840.48	912.68	*IG
STORE	338	42687.72	44823.65	912.99	*TOP
STORE	339	42684.82	44814.90	907.22	*TOE
STORE	340	42786.32	44814.26	907.29	*TOE
STORE	341	42784.17	44822.46	913.12	*TOP
STORE	342	42786.36	44838.64	913.12	*IG
STORE	343	42786.36	44843.79	911.83	*IG
STORE	344	42787.11	44882.11	911.85	*IG
STORE	345	42883.85	44884.79	911.93	*IG
STORE	346	42884.87	44842.53	912.05	*IG
STORE	347	42884.82	44838.00	913.36	*IG
STORE	348	42885.69	44821.04	913.25	*TOP
STORE	349	42885.33	44812.47	907.43	*TOE
STORE	350	42986.74	44811.09	907.50	*TOE
STORE	351	42986.92	44820.35	913.77	*TOP
STORE	352	42986.18	44837.82	913.53	*IG
STORE	353	42986.49	44842.52	912.17	*IG
STORE	354	42986.36	44889.68	912.13	*IG
STORE	355	42581.15	44791.35	911.16	*WF
STORE	356	42580.85	44752.46	911.78	*WV
STORE	357	42486.24	44813.18	907.01	*TOE
STORE	358	42485.91	44808.05	909.30	*TOP
STORE	359	42485.04	44782.94	911.13	*RE
STORE	360	42485.21	44768.96	911.52	*RC
STORE	361	42485.19	44755.04	911.68	*RE
STORE	362	42485.24	44736.62	909.60	*IF
STORE	363	42485.52	44718.11	911.80	*TOP
STORE	364	42485.59	44714.44	910.68	*IG
STORE	365	42484.47	44666.32	910.85	*IG
STORE	366	42583.02	44665.98	910.87	*IG
STORE	367	42583.42	44691.22	910.88	*IG
STORE	368	42584.38	44715.12	910.96	*IG
STORE	369	42584.28	44717.46	912.02	*TOP
STORE	370	42584.98	44735.78	909.82	*IF
STORE	371	42585.13	44755.05	911.89	*RE
STORE	372	42585.12	44768.64	911.74	*RC
STORE	373	42585.39	44782.16	911.44	*RE
STORE	374	42586.56	44806.45	909.68	*TOP
STORE	375	42586.35	44810.99	907.12	*TOE
STORE	376	42684.89	44811.17	907.23	*TOE
STORE	377	42684.71	44806.39	909.52	*TOP
STORE	378	42684.82	44782.51	911.39	*RE
STORE	379	42685.01	44768.22	911.85	*RC
STORE	380	42685.23	44754.61	912.01	*RE
STORE	381	42685.37	44735.85	909.84	*IF
STORE	382	42685.58	44716.76	911.96	*TOP
STORE	383	42685.63	44713.89	910.89	*IG
STORE	384	42685.26	44687.65	910.96	*IG
STORE	385	42685.32	44662.34	910.94	*IG
STORE	386	42783.38	44662.18	910.83	*IG

STORE	387	42783.90	44688.81	910.96	*IG
STORE	388	42783.82	44713.03	910.68	*IG
STORE	389	42784.50	44716.14	911.88	*TOP
STORE	390	42785.18	44735.65	909.92	*IF
STORE	391	42785.32	44754.37	912.12	*RE
STORE	392	42785.25	44767.94	911.99	*RC
STORE	393	42786.00	44781.72	911.71	*RE
STORE	394	42786.00	44805.07	909.81	*TOP
STORE	395	42786.42	44810.24	907.40	*TOE
STORE	396	42884.84	44808.19	907.36	*TOE
STORE	397	42885.02	44803.28	909.82	*TOP
STORE	398	42885.54	44781.13	911.52	*RE
STORE	399	42885.95	44768.14	911.84	*RC
STORE	400	42885.76	44753.75	912.01	*RE
STORE	401	42828.47	44749.75	911.75	*RG
STORE	402	42829.11	44746.10	911.56	*RG
STORE	403	42885.87	44736.21	909.93	*IF
STORE	404	42885.97	44716.66	911.99	*TOP
STORE	405	42886.44	44714.06	910.96	*IG
STORE	406	42886.32	44687.91	911.02	*IG
STORE	407	42887.05	44660.31	911.00	*IG
STORE	408	42984.31	44659.94	911.01	*IG
STORE	409	42984.29	44685.97	911.19	*IG
STORE	410	42985.16	44714.52	911.03	*IG
STORE	411	42986.00	44717.43	912.15	*TOP
STORE	412	42986.06	44735.70	910.16	*IF
STORE	413	42985.78	44753.47	911.87	*RE
STORE	414	42986.12	44767.40	911.67	*RC
STORE	415	42986.22	44781.06	911.33	*RE
STORE	416	42986.65	44801.08	910.28	*TOP
STORE	417	42986.71	44807.26	907.40	*TOE
STORE	418	43051.53	44788.83	910.95	*TM
STORE	419	43051.12	44792.65	910.84	*RG
STORE	420	43072.88	44786.48	911.43	*RG
STORE	421	43074.27	44747.74	912.28	*RG
STORE	422	43085.38	44661.07	911.01	*IG
STORE	423	43086.27	44692.42	910.98	*IG
STORE	424	43085.95	44714.76	910.92	*IG
STORE	425	43086.05	44717.31	911.95	*TOP
STORE	426	43086.15	44736.66	910.23	*IF
STORE	427	43085.86	44753.11	911.75	*RE
STORE	428	43086.12	44767.57	911.59	*RC
STORE	429	43086.07	44780.51	911.16	*RE
STORE	430	43085.82	44805.08	909.64	*TOP
STORE	431	43085.90	44807.37	907.69	*TOE
STORE	432	43085.87	44811.01	907.66	*TOE
STORE	433	43085.87	44819.86	913.82	*TOP
STORE	434	43085.64	44836.04	913.85	*IG
STORE	435	43085.36	44841.18	912.40	*IG
STORE	436	43084.80	44869.02	912.22	*IG
STORE	437	43084.33	44894.87	912.24	*IG
STORE	438	43184.33	44896.92	912.40	*IG
STORE	439	43184.46	44867.39	912.52	*IG
STORE	440	43184.21	44839.86	912.75	*IG
STORE	441	43183.94	44835.70	913.90	*IG
STORE	442	43184.71	44819.20	913.87	*TOP
STORE	443	43185.69	44809.11	907.65	*TOE
STORE	444	43185.24	44805.74	907.83	*TOE
STORE	445	43184.56	44801.47	909.97	*TOP
STORE	446	43185.65	44780.38	911.04	*RE
STORE	447	43185.60	44767.04	911.38	*RC
STORE	448	43186.03	44752.88	911.52	*RE
STORE	449	43185.88	44738.54	910.36	*IF
STORE	450	43185.28	44718.78	912.29	*TOP
STORE	451	43184.75	44715.95	911.15	*IG
STORE	452	43185.30	44685.38	911.12	*IG
STORE	453	43185.48	44655.35	911.02	*IG
STORE	454	43283.15	44657.29	911.04	*IG
STORE	455	43284.31	44686.79	911.30	*IG
STORE	456	43285.05	44716.51	911.18	*IG
STORE	457	43285.53	44719.68	912.29	*TOP
STORE	458	43286.23	44737.33	910.45	*IF
STORE	459	43286.31	44752.48	911.39	*RE
STORE	460	43286.09	44766.89	911.23	*RC
STORE	461	43285.96	44780.12	910.84	*RE
STORE	462	43286.34	44805.63	907.78	*TOE
STORE	463	43286.00	44808.71	907.65	*TOE
STORE	464	43285.28	44817.42	913.90	*TOP
STORE	465	43285.20	44834.51	914.02	*IG

STORE	466	43284.98	44840.12	912.73	*IG
STORE	467	43284.47	44874.38	912.46	*IG
STORE	468	43282.79	44902.19	912.54	*IG
STORE	469	43344.49	44901.11	913.84	*TOP
STORE	470	43346.49	44901.30	911.90	*TOE
STORE	471	43347.58	44901.21	911.89	*TOE
STORE	472	43349.58	44901.57	913.78	*TOP
STORE	473	43350.15	44844.15	913.94	*IH
STORE	474	43350.20	44837.23	913.90	*IH
STORE	475	43343.75	44836.95	913.89	*IH
STORE	476	43347.37	44837.67	910.25	*INV 18INCONCPIPE
STORE	477	43349.40	44839.87	910.25	*INV 18INCONCPIPE
STORE	478	43372.64	44840.37	910.19	*INV 18INCONCPIPE
STORE	479	43377.12	44838.58	913.77	*IH
STORE	480	43371.86	44838.50	913.77	*IH
STORE	481	43371.80	44843.83	913.72	*IH
STORE	482	43347.57	44799.43	908.76	*INV 18INCONCPIPE
STORE	483	43349.18	44798.10	908.09	*INV 36IN CMP
STORE	484	43343.25	44802.10	911.73	*IH
STORE	485	43345.70	44800.22	911.82	*IH
STORE	486	43350.01	44800.26	911.83	*IH
STORE	487	43350.02	44795.62	911.87	*IH
STORE	488	43345.62	44795.66	911.85	*IH
STORE	489	43343.33	44793.81	911.83	*IH
STORE	490	43340.16	44790.39	911.52	*TOP
STORE	491	43340.38	44794.32	907.88	*TOE
STORE	492	43341.28	44802.34	908.48	*TOE
STORE	493	43341.47	44803.38	911.05	*GRADE BK IG
STORE	494	43341.01	44809.90	913.46	*TOP
STORE	495	43344.62	44810.06	913.07	*GATEPOST
STORE	496	43347.70	44734.82	911.06	*TOP
STORE	497	43347.42	44732.83	909.04	*INV 18IN CMP
STORE	498	43347.26	44727.91	912.00	*TOP
STORE	499	43347.60	44717.61	912.23	*END TOP
STORE	500	43349.74	44717.82	910.08	*END TOE
STORE	501	43351.44	44717.66	909.87	*END TOE
STORE	502	43353.93	44717.68	912.29	*END TOP
STORE	503	43353.58	44666.47	912.26	*TOP
STORE	504	43351.23	44667.00	909.87	*TOE
STORE	505	43349.66	44667.00	909.85	*TOE
STORE	506	43347.18	44667.05	912.23	*TOP
STORE	507	43383.25	44724.90	912.20	*TOP
STORE	508	43383.48	44732.10	909.30	*INV 18IN CMP
STORE	509	43383.12	44735.81	911.33	*TOP
STORE	510	43379.30	44791.91	911.71	*TOP
STORE	511	43379.52	44797.88	908.32	*INV 36IN CMP
STORE	512	43379.58	44803.03	912.30	*TOP
STORE	513	43375.01	44808.49	912.82	*GATEPOST
STORE	514	43385.64	44876.66	912.00	*IG
STORE	515	43385.37	44844.39	912.34	*IG
STORE	516	43385.70	44839.68	913.25	*IG
STORE	517	43385.87	44835.22	912.15	*IG
STORE	518	43385.50	44816.18	912.82	*IG
STORE	519	43385.82	44809.91	914.55	*TOP
STORE	520	43386.26	44798.75	908.83	*TOE
STORE	521	43385.27	44796.74	908.78	*TOE
STORE	522	43386.56	44791.48	911.27	*TOP
STORE	523	43387.10	44779.40	910.83	*RE
STORE	524	43386.95	44766.18	911.27	*RC
STORE	525	43386.71	44752.50	911.35	*RE
STORE	526	43387.54	44735.44	911.21	*TOP
STORE	527	43387.95	44732.47	910.54	*IF
STORE	528	43388.36	44724.39	912.29	*TOP
STORE	529	43388.33	44694.47	911.95	*IG
STORE	530	43389.57	44668.62	911.68	*IG
STORE	531	43489.38	44655.19	912.01	*IG
STORE	532	43487.82	44714.83	912.01	*IG
STORE	533	43487.06	44726.58	912.10	*TOP
STORE	534	43486.76	44730.41	910.71	*IF
STORE	535	43486.95	44752.02	911.60	*RE
STORE	536	43486.88	44765.93	911.51	*RC
STORE	537	43486.64	44779.53	911.10	*RE
STORE	538	43487.09	44788.09	911.24	*TOP
STORE	539	43486.91	44794.44	909.37	*TOE
STORE	540	43486.93	44797.39	909.06	*TOE
STORE	541	43486.93	44807.37	912.60	*TOP
STORE	542	43486.45	44822.53	912.34	*IG
STORE	543	43486.56	44825.93	913.50	*IG
STORE	544	43486.66	44828.95	912.34	*IG

STORE	545	43486.88	44849.81	912.19	*IG
STORE	546	43487.05	44876.64	912.14	*IG
STORE	547	43587.24	44877.89	912.30	*IG
STORE	548	43588.04	44853.44	912.40	*IG
STORE	549	43587.05	44828.77	912.46	*IG
STORE	550	43587.81	44825.48	913.51	*IG
STORE	551	43588.61	44822.38	912.38	*IG
STORE	552	43588.51	44806.14	912.77	*TOP
STORE	553	43588.55	44796.63	909.46	*TOE
STORE	554	43588.67	44793.43	909.53	*TOE
STORE	555	43588.28	44787.51	911.43	*IG
STORE	556	43587.02	44779.27	911.27	*RE
STORE	557	43605.18	44782.47	911.40	*RG
STORE	558	43587.10	44765.64	911.76	*RC
STORE	559	43586.92	44751.58	911.86	*RE
STORE	560	43587.19	44730.52	910.71	*IF
STORE	561	43587.12	44725.62	912.57	*TOP
STORE	562	43586.49	44713.94	912.30	*IG
STORE	563	43585.74	44683.77	912.20	*IG
STORE	564	43583.46	44650.74	911.89	*IG
STORE	565	43687.77	44877.37	912.48	*IG
STORE	566	43687.90	44828.35	912.50	*IG
STORE	567	43687.64	44825.02	913.46	*IG
STORE	568	43687.30	44822.37	912.57	*IG
STORE	569	43687.71	44805.32	912.67	*TOP
STORE	570	43687.86	44795.77	909.74	*TOE
STORE	571	43687.83	44792.89	909.60	*TOE
STORE	572	43687.64	44786.72	911.35	*TOP
STORE	573	43687.73	44778.84	911.43	*RE
STORE	574	43687.45	44765.01	911.82	*RC
STORE	575	43687.58	44751.44	911.93	*RE
STORE	576	43687.40	44740.00	911.37	*TOP
STORE	577	43687.36	44735.73	910.79	*TOE
STORE	578	43687.14	44729.90	910.65	*TOE
STORE	579	43687.36	44724.89	912.47	*TOP
STORE	580	43687.30	44712.52	912.43	*IG
STORE	581	43686.97	44681.94	912.28	*IG
STORE	582	43689.24	44650.94	912.21	*IG
STORE	583	43781.33	44632.05	912.21	*IG
STORE	584	43782.59	44665.19	912.42	*IG
STORE	585	43785.98	44707.94	912.07	*IG
STORE	586	43786.35	44709.88	912.84	*IG
STORE	587	43786.27	44724.67	912.53	*TOP
STORE	588	43786.08	44730.38	910.38	*IF
STORE	589	43787.67	44751.00	912.12	*RE
STORE	590	43765.61	44739.23	912.22	*RG
STORE	591	43788.09	44765.03	912.00	*RC
STORE	592	43788.91	44778.42	911.70	*RE
STORE	593	43789.56	44788.71	911.29	*TOP
STORE	594	43790.01	44792.24	909.85	*TOE
STORE	595	43789.38	44794.91	909.76	*TOE
STORE	596	43790.02	44804.87	913.00	*TOP
STORE	597	43790.47	44821.25	912.61	*IG
STORE	598	43790.02	44824.78	913.45	*IG
STORE	599	43789.72	44827.31	912.83	*IG
STORE	600	43791.20	44857.18	912.77	*IG
STORE	601	43792.80	44888.71	912.77	*IG
STORE	602	43887.21	44888.02	912.93	*IG
STORE	603	43887.52	44859.49	912.94	*IG
STORE	604	43887.98	44826.51	912.98	*IG
STORE	605	43887.81	44823.52	913.84	*IG
STORE	606	43887.94	44820.88	912.93	*IG
STORE	607	43887.99	44795.26	909.77	*TOE
STORE	608	43887.46	44791.60	909.98	*TOE
STORE	609	43887.54	44788.37	911.65	*TOP
STORE	610	43887.80	44778.33	911.86	*RE
STORE	611	43888.05	44764.62	912.22	*RC
STORE	612	43887.89	44750.66	912.32	*RE
STORE	613	43888.02	44730.28	910.42	*IF
STORE	614	43887.88	44723.92	912.94	*TOP
STORE	615	43888.13	44708.60	912.82	*IG
STORE	616	43888.21	44706.21	912.14	*IG
STORE	617	43887.05	44676.33	912.76	*IG
STORE	618	43887.63	44639.94	912.76	*IG
STORE	619	43980.68	44617.88	912.59	*IG
STORE	620	43982.35	44659.18	912.51	*IG
STORE	621	43985.54	44703.61	912.24	*IG
STORE	622	43986.08	44706.38	912.87	*IG
STORE	623	43986.82	44722.57	913.04	*TOP

STORE	624	43985.71	44728.53	910.79	*IF
STORE	625	43987.96	44750.39	912.55	*RE
STORE	626	43989.54	44764.47	912.42	*RC
STORE	627	43988.95	44777.96	912.05	*RE
STORE	628	43989.77	44788.51	911.49	*TOP
STORE	629	43990.16	44791.86	910.29	*TOE
STORE	630	43990.35	44796.16	910.21	*TOE
STORE	631	43990.57	44804.35	913.08	*TOP
STORE	632	43991.26	44820.59	913.20	*IG
STORE	633	43991.45	44823.31	914.00	*IG
STORE	634	43991.49	44826.59	913.13	*IG
STORE	635	43992.76	44852.62	913.06	*IG
STORE	636	43994.17	44880.68	913.09	*IG
STORE	637	44094.15	44883.22	913.29	*IG
STORE	638	44092.96	44854.93	913.25	*IG
STORE	639	44092.07	44825.84	913.27	*IG
STORE	640	44091.99	44823.00	914.38	*IG
STORE	641	44091.79	44819.75	913.43	*IG
STORE	642	44090.49	44805.48	913.33	*TOP
STORE	643	44090.09	44795.72	910.41	*TOE
STORE	644	44090.27	44789.95	910.53	*TOE
STORE	645	44089.86	44784.61	912.03	*TOP
STORE	646	44089.75	44777.53	912.31	*RE
STORE	647	44089.09	44763.97	912.61	*RC
STORE	648	44088.62	44750.25	912.77	*RE
STORE	649	44087.71	44728.32	910.61	*IF
STORE	650	44087.71	44721.73	913.13	*TOP
STORE	651	44086.82	44705.78	913.19	*IG
STORE	652	44087.43	44702.38	912.51	*IG
STORE	653	44086.98	44671.48	912.88	*IG
STORE	654	44083.75	44638.46	912.73	*IG
STORE	655	44166.15	44781.01	912.90	*RG
STORE	656	44167.45	44737.94	912.12	*RG
STORE	657	44185.98	44650.24	913.04	*IG
STORE	658	44187.53	44701.05	912.54	*IG
STORE	659	44187.42	44703.94	913.42	*IG
STORE	660	44187.89	44720.55	913.16	*TOP
STORE	661	44188.46	44726.51	910.79	*IF
STORE	662	44189.26	44749.04	912.82	*RE ANG. PT
STORE	663	44189.38	44763.15	913.02	*RC
STORE	664	44189.58	44776.88	912.62	*RE ANG. PT.
STORE	665	44190.08	44784.48	912.32	*TOP
STORE	666	44190.21	44790.21	910.57	*TOE
STORE	667	44190.54	44795.44	910.34	*TOE
STORE	668	44190.92	44806.38	913.34	*TOP
STORE	669	44191.33	44820.01	913.52	*IG
STORE	670	44191.43	44823.29	914.51	*IG
STORE	671	44191.66	44825.90	913.53	*IG
STORE	672	44192.78	44854.79	913.45	*IG
STORE	673	44193.49	44881.81	913.49	*IG
STORE	674	44290.20	44883.35	913.67	*IG
STORE	675	44290.95	44854.22	913.64	*IG
STORE	676	44291.29	44825.36	913.77	*IG
STORE	677	44291.28	44822.95	914.49	*IG
STORE	678	44291.37	44819.89	913.58	*IG
STORE	679	44291.01	44800.92	913.88	*TOP
STORE	680	44290.33	44790.71	910.66	*TOE
STORE	681	44290.22	44784.77	910.66	*TOE
STORE	682	44289.23	44773.45	912.93	*RE
STORE	683	44289.46	44760.86	913.20	*RE
STORE	684	44271.78	44758.63	913.31	*RC
STORE	685	44289.86	44755.09	913.28	*RE
STORE	686	44281.65	44758.87	913.35	*RG
STORE	687	44289.62	44742.80	913.03	*RE
STORE	688	44289.35	44721.84	910.90	*IF
STORE	689	44289.27	44715.28	913.74	*TOP
STORE	690	44288.73	44700.61	913.84	*IG
STORE	691	44288.78	44697.81	912.94	*IG
STORE	692	44288.41	44671.97	913.24	*IG
STORE	693	44288.84	44646.65	913.62	*IG
STORE	694	44386.49	44624.66	913.21	*IG
STORE	695	44388.91	44660.53	913.24	*IG
STORE	696	44390.11	44695.89	913.47	*IG
STORE	697	44390.12	44697.07	913.86	*IG
STORE	698	44390.41	44707.89	913.69	*TOP
STORE	699	44390.20	44714.29	911.12	*IF
STORE	700	44369.07	44728.70	912.91	*RG
STORE	701	44390.75	44736.21	913.16	*RE
STORE	702	44390.82	44748.55	913.46	*RE

STORE	703	44390.77	44752.34	913.80	*RC IG
STORE	704	44391.04	44756.70	913.61	*RE
STORE	705	44391.37	44769.51	913.11	*RE
STORE	706	44391.41	44778.38	912.79	*TOP
STORE	707	44391.57	44784.92	910.72	*TOE
STORE	708	44391.61	44788.29	910.57	*TOE
STORE	709	44392.13	44796.91	914.20	*TOP
STORE	710	44392.67	44819.83	913.82	*IG
STORE	711	44392.66	44822.23	914.68	*IG
STORE	712	44392.73	44824.84	913.90	*IG
STORE	713	44393.02	44852.38	913.81	*IG
STORE	714	44393.84	44878.78	913.82	*IG
STORE	715	44497.32	44879.82	914.09	*IG
STORE	716	44497.23	44849.73	914.01	*IG
STORE	717	44496.70	44824.45	913.98	*IG
STORE	718	44496.58	44821.45	914.89	*IG
STORE	719	44496.46	44818.55	914.07	*IG
STORE	720	44495.37	44792.06	914.03	*TOP
STORE	721	44494.56	44785.78	910.85	*TOE
STORE	722	44494.10	44780.32	911.10	*TOE
STORE	723	44493.69	44775.87	912.53	*TOP
STORE	724	44492.99	44765.90	913.34	*RE
STORE	725	44492.07	44753.21	913.60	*RE
STORE	726	44491.67	44748.14	913.77	*RC IG
STORE	727	44491.39	44742.03	913.68	*RE
STORE	728	44490.51	44730.13	913.36	*RE
STORE	729	44489.43	44707.09	911.26	*IF
STORE	730	44488.18	44700.89	914.08	*TOP
STORE	731	44487.01	44666.84	913.61	*IG
STORE	732	44484.79	44631.84	913.87	*IG
STORE	733	44591.03	44610.73	914.07	*IG
STORE	734	44590.12	44648.73	913.71	*IG
STORE	735	44591.34	44691.89	914.12	*TOP
STORE	736	44592.02	44702.00	911.32	*IF
STORE	737	44572.01	44717.17	916.12	*WF
STORE	738	44573.02	44742.35	913.91	*WV TON 912.56
STORE	739	44591.59	44723.58	913.63	*RE
STORE	740	44591.73	44736.17	913.89	*RE
STORE	741	44592.38	44742.44	914.11	*RC IG
STORE	742	44592.68	44749.57	913.90	*RE
STORE	743	44575.43	44743.26	914.07	*RG
STORE	744	44592.53	44762.67	913.50	*RE
STORE	745	44592.16	44772.50	913.00	*TOP
STORE	746	44592.08	44778.03	911.17	*TOE
STORE	747	44592.06	44782.54	911.38	*TOE
STORE	748	44592.45	44790.66	914.25	*TOP
STORE	749	44592.21	44817.24	913.95	*IG
STORE	750	44592.23	44821.35	915.00	*IG
STORE	751	44592.06	44824.92	914.11	*IG
STORE	752	44592.84	44856.89	914.09	*IG
STORE	753	44592.30	44886.97	914.31	*IG
STORE	754	44630.35	44741.66	914.03	*RG
STORE	755	44629.10	44775.32	912.62	*TOP
STORE	756	44629.39	44779.85	911.04	*TOE
STORE	757	44629.72	44785.72	911.08	*TOE
STORE	758	44630.10	44792.06	915.20	*TOP
STORE	759	44633.14	44782.82	911.04	*INV 30IN CMP
STORE	760	44632.92	44776.28	913.80	*RG
STORE	761	44654.34	44788.07	915.50	*EP
STORE	762	44654.09	44791.70	915.34	*TR
STORE	763	44652.89	44795.85	915.28	*IG
STORE	764	44648.55	44795.55	916.48	*TOP
STORE	765	44645.10	44796.27	913.93	*TOE
STORE	766	44644.61	44795.52	913.60	*INV 24INCONCPIPE
STORE	767	44644.03	44796.36	913.86	*TOE
STORE	768	44640.13	44796.33	916.37	*TOP
STORE	769	44634.95	44796.16	915.09	*IG
STORE	770	44639.92	44745.94	914.05	*RE
STORE	771	44638.75	44735.93	913.96	*RE
STORE	772	44639.10	44702.37	913.01	*TOP
STORE	773	44638.87	44699.96	911.67	*INV.18INCONCPIPE
STORE	774	44638.60	44692.65	914.47	*TOP
STORE	775	44641.59	44686.56	915.31	*TOP
STORE	776	44643.36	44686.21	913.30	*TOE
STORE	777	44644.09	44686.40	913.06	*INV.24INCONCPIPE
STORE	778	44647.03	44686.69	915.49	*TOP
STORE	779	44644.58	44685.98	913.23	*TOE
STORE	780	44683.95	44692.20	914.65	*TOP
STORE	781	44684.07	44699.65	911.82	*INV.18INCONCPIPE

STORE	782	44684.78	44706.41	913.88	*TOP
STORE	783	44681.02	44702.79	913.97	*RG
STORE	784	44672.74	44713.19	913.80	*SM
STORE	785	44672.86	44731.67	913.98	*SM
STORE	786	44675.89	44742.08	913.95	*WV
STORE	787	44680.24	44745.57	913.97	*WV
STORE	788	44679.70	44741.21	913.94	*WV
STORE	789	44686.42	44747.08	914.63	*RB
STORE	790	44686.35	44747.68	914.05	*RH
STORE	791	44684.27	44746.05	914.02	*RH
STORE	792	44686.28	44743.92	914.03	*RH
STORE	793	44686.20	44744.54	914.57	*RB
STORE	794	44688.25	44746.02	914.29	*RG
STORE	795	44686.01	44720.20	913.74	*RE
STORE	796	44686.38	44759.75	913.72	*RE
STORE	797	44691.33	44771.04	914.13	*TOP
STORE	798	44691.79	44777.72	911.69	*TOE
STORE	799	44691.86	44782.64	911.67	*TOE
STORE	800	44693.08	44785.83	915.96	*TOP
STORE	801	44688.30	44780.06	911.63	*INV. 36IN CMP
STORE	802	44686.54	44671.39	915.21	*TOP
STORE	803	44687.49	44673.86	915.16	*TOP
STORE	804	44692.30	44674.68	915.06	*TOP
STORE	805	44692.67	44669.57	915.06	*TOP
STORE	806	44691.81	44668.72	915.15	*TOP
STORE	807	44692.61	44671.57	913.16	*TOE
STORE	808	44692.73	44672.68	913.09	*TOE
STORE	809	44690.00	44668.52	913.12	*TOE
STORE	810	44688.41	44668.39	913.12	*TOE
STORE	811	44681.91	44679.03	915.28	*IG
STORE	812	44730.09	44679.75	915.13	*IG
STORE	813	44783.46	44678.45	915.08	*IG
STORE	814	44697.24	44677.94	915.15	*WM
STORE	815	44672.56	44678.68	915.05	*IG
STORE	816	44651.53	44678.28	913.96	*IG
STORE	817	44646.95	44678.31	915.41	*TOP
STORE	818	44644.40	44678.70	913.56	*TOE
STORE	819	44643.54	44678.57	913.57	*TOE
STORE	820	44641.14	44678.92	915.25	*TOP
STORE	821	44634.46	44679.36	914.08	*IG
STORE	822	44611.91	44679.10	914.70	*IG
STORE	823	44583.86	44678.64	913.74	*IG
STORE	824	44579.39	44624.56	913.69	*IG
STORE	825	44638.37	44625.44	914.71	*IG
STORE	826	44640.48	44625.82	914.82	*TOP
STORE	827	44642.94	44625.65	913.43	*TOE
STORE	828	44643.71	44625.70	913.47	*TOE
STORE	829	44646.07	44625.32	915.15	*TOP
STORE	830	44651.26	44624.83	913.88	*IG
STORE	831	44666.00	44624.80	914.09	*IG
STORE	832	44681.38	44625.17	914.97	*IG
STORE	833	44685.92	44625.18	915.29	*TOP
STORE	834	44689.49	44625.41	913.15	*TOE
STORE	835	44687.89	44625.32	913.15	*TOE
STORE	836	44691.63	44624.92	915.27	*TOP
STORE	837	44696.14	44625.28	915.48	*IG
STORE	838	44697.69	44625.27	914.31	*IG
STORE	839	44752.45	44626.45	913.69	*IG
STORE	840	44789.63	44625.62	913.76	*IG
STORE	841	44789.29	44601.72	914.70	*EP
STORE	842	44762.74	44596.35	914.37	*EP
STORE	843	44789.23	44574.47	913.79	*IG
STORE	844	44741.12	44573.99	914.08	*IG
STORE	845	44699.32	44574.05	913.83	*IG
STORE	846	44697.59	44574.41	915.03	*IG
STORE	847	44691.40	44573.64	915.29	*TOP
STORE	848	44689.25	44573.59	913.17	*TOE
STORE	849	44687.65	44573.55	913.16	*TOE
STORE	850	44685.58	44574.23	915.33	*TOP
STORE	851	44680.70	44574.30	914.78	*IG
STORE	852	44664.60	44574.26	913.89	*IG
STORE	853	44650.41	44573.94	913.91	*IG
STORE	854	44645.71	44573.79	914.92	*TOP
STORE	855	44643.82	44573.90	913.14	*TOE
STORE	856	44642.78	44574.01	913.11	*TOE
STORE	857	44640.68	44574.26	914.83	*TOP
STORE	858	44638.62	44574.19	914.76	*IG
STORE	859	44637.41	44573.98	913.93	*IG
STORE	860	44605.88	44574.26	913.99	*IG

STORE	861	44561.94	44573.87	913.61	*IG
STORE	862	44784.63	44898.97	917.01	*IG
STORE	863	44733.92	44895.97	916.67	*IG
STORE	864	44684.29	44898.92	914.84	*IG
STORE	865	44675.84	44899.48	915.04	*RI DIRT
STORE	866	44653.31	44899.16	915.04	*RI DIRT
STORE	867	44648.14	44899.47	915.93	*TOP
STORE	868	44645.93	44899.44	914.02	*TOE
STORE	869	44644.84	44899.64	914.00	*TOE
STORE	870	44642.74	44899.91	915.85	*TOP
STORE	871	44637.97	44899.28	913.67	*IG
STORE	872	44592.22	44899.89	914.18	*IG
STORE	873	44635.24	44845.97	914.68	*IG
STORE	874	44642.19	44845.55	915.91	*TOP
STORE	875	44644.42	44845.13	913.95	*TOE
STORE	876	44645.43	44845.14	913.98	*TOE
STORE	877	44647.48	44845.29	915.85	*TOP
STORE	878	44653.05	44845.60	915.13	*RI DIRT
STORE	879	44674.59	44846.68	915.11	*RI DIRT
STORE	880	44682.88	44846.37	915.03	*IG
STORE	881	44690.39	44846.57	917.77	*IG
STORE	882	44693.79	44846.41	917.07	*IG
STORE	883	44730.20	44845.67	917.39	*IG
STORE	884	44773.43	44845.90	917.13	*IG
STORE	885	44683.60	44794.57	915.84	*IG
STORE	886	44674.59	44793.85	915.29	*RI DIRT
STORE	887	44656.72	44793.62	914.98	*RI DIRT
STORE	888	44706.79	44795.17	916.91	*IG
STORE	889	44747.74	44796.87	917.22	*IG
STORE	890	44792.74	44792.89	917.16	*IG
STORE	891	44792.91	44791.02	917.59	*IG
STORE	892	44793.11	44783.21	917.38	*TOP
STORE	893	44792.62	44774.64	912.00	*TOE
STORE	894	44792.78	44772.06	912.09	*TOE
STORE	895	44793.08	44760.00	914.01	*RE
STORE	896	44793.27	44747.85	914.37	*RF
STORE	897	44793.33	44747.26	914.88	*RB
STORE	898	44793.35	44744.51	914.97	*RB
STORE	899	44793.37	44743.86	914.47	*RF
STORE	900	44793.89	44720.31	913.96	*RE
STORE	901	44818.20	44711.96	914.29	*RG
STORE	902	44792.81	44699.01	912.96	*IF
STORE	903	44793.52	44674.63	915.01	*TOP
STORE	904	44793.45	44672.65	913.01	*TOE
STORE	905	44793.96	44671.61	913.00	*TOE
STORE	906	44793.93	44669.41	914.99	*TOP
STORE	907	44794.03	44666.71	914.93	*IG
STORE	908	44794.14	44664.71	913.96	*IG
STORE	909	44878.81	44675.88	915.74	*IH
STORE	910	44883.99	44675.72	915.71	*IH
STORE	911	44881.39	44674.90	912.84	*INV.18INCONCPIPE
STORE	912	44881.33	44776.83	912.47	*INV.18INCONCPIPE
STORE	913	44884.13	44776.13	913.91	*IH
STORE	914	44879.59	44776.03	915.06	*IH
STORE	915	44879.44	44779.47	915.11	*IH
STORE	916	44895.34	44844.18	917.23	*IG
STORE	917	44893.31	44798.08	917.26	*IG
STORE	918	44893.51	44795.45	917.83	*IG
STORE	919	44893.24	44787.68	917.59	*TOP
STORE	920	44892.92	44774.31	912.38	*TOE
STORE	921	44893.40	44769.20	912.55	*TOE
STORE	922	44893.69	44760.10	914.20	*RE
STORE	923	44893.59	44747.98	914.59	*RF
STORE	924	44893.57	44747.39	915.06	*RB
STORE	925	44893.58	44744.61	915.12	*RB
STORE	926	44893.63	44744.02	914.63	*RF
STORE	927	44893.86	44720.53	914.20	*RE
STORE	928	44894.25	44699.70	913.06	*IF
STORE	929	44893.92	44676.11	915.55	*TOP DIRT
STORE	930	44893.93	44674.40	914.86	*TOP CONC
STORE	931	44894.15	44672.35	912.87	*TOE
STORE	932	44894.18	44671.38	912.86	*TOE
STORE	933	44894.46	44666.67	914.28	*IG
STORE	934	44894.65	44665.12	914.07	*IG
STORE	935	44894.51	44618.15	913.62	*IG
STORE	936	44896.66	44744.01	914.63	*RF PC
STORE	937	44896.64	44744.61	915.10	*RB PC
STORE	938	44946.57	44738.52	915.18	*RB PRC
STORE	939	44946.52	44737.95	914.72	*RF PRC

STORE	940	44997.00	44732.22	914.80	*RF PT
STORE	941	44996.96	44732.76	915.27	*RB PT
STORE	942	44997.09	44739.29	915.62	*RC IG
STORE	943	44996.72	44720.14	914.42	*RE
STORE	944	44996.31	44699.11	913.18	*IF
STORE	945	44996.17	44676.33	915.29	*TOP IG
STORE	946	44996.04	44674.38	914.72	*TOP CONC
STORE	947	44995.99	44672.51	912.83	*TOE
STORE	948	44995.91	44671.24	912.81	*TOE
STORE	949	44995.95	44669.30	914.69	*TOP CONC
STORE	950	44995.62	44666.93	914.63	*IG
STORE	951	44995.31	44665.38	913.95	*IG
STORE	952	44993.54	44633.21	913.84	*IG
STORE	953	44991.36	44602.17	914.04	*IG
STORE	954	44996.91	44747.64	915.22	*RB
STORE	955	44997.07	44748.24	914.74	*RF
STORE	956	44996.58	44760.25	914.46	*RE
STORE	957	44996.51	44768.83	912.79	*TOE
STORE	958	44996.46	44773.73	912.90	*TOE
STORE	959	44994.54	44774.84	914.12	*EG
STORE	960	45014.13	44775.03	913.09	*EP
STORE	961	44997.71	44785.81	917.65	*TOP
STORE	962	44997.83	44814.95	917.60	*IG
STORE	963	45000.19	44844.86	917.50	*IG
STORE	964	45089.66	44841.36	917.14	*IG
STORE	965	45094.45	44786.54	917.15	*TOP
STORE	966	45093.21	44775.85	912.77	*TOE
STORE	967	45093.77	44773.77	913.22	*TOE
STORE	968	45093.63	44771.81	914.31	*TOP
STORE	969	45099.09	44769.84	914.81	*RG
STORE	970	45098.90	44767.20	914.39	*RG
STORE	971	45094.07	44760.42	914.67	*RE
STORE	972	45095.15	44748.27	914.96	*RF
STORE	973	45095.11	44747.69	915.45	*RB
STORE	974	45098.58	44743.46	915.53	*RG
STORE	975	45093.66	44732.86	915.52	*RB
STORE	976	45093.63	44732.30	915.02	*RF
STORE	977	45093.65	44720.32	914.61	*RE
STORE	978	45093.81	44699.90	913.41	*IF
STORE	979	45093.20	44676.58	915.23	*TOP IG
STORE	980	45092.79	44674.68	914.63	*TOP CONC
STORE	981	45093.00	44672.77	912.78	*TOE
STORE	982	45093.01	44671.45	912.79	*TOE
STORE	983	45093.00	44669.56	914.61	*TOP CONC
STORE	984	45092.81	44667.24	914.54	*IG
STORE	985	45092.94	44665.26	913.80	*IG
STORE	986	45092.42	44633.92	914.01	*IG
STORE	987	45092.38	44602.73	914.04	*IG
STORE	988	45189.23	44601.14	913.74	*IG
STORE	989	45190.21	44632.57	913.86	*IG
STORE	990	45192.59	44666.02	913.75	*IG
STORE	991	45192.71	44667.77	915.09	*IG
STORE	992	45192.53	44669.84	914.49	*TOP CONC
STORE	993	45192.37	44671.56	912.82	*TOE
STORE	994	45192.52	44672.91	912.63	*TOE
STORE	995	45192.81	44674.87	914.54	*TOP CONC
STORE	996	45193.30	44677.33	915.43	*TOP IG
STORE	997	45194.74	44704.20	914.15	*IF
STORE	998	45194.47	44720.38	914.89	*RE
STORE	999	45194.09	44732.43	915.20	*RF
STORE	1000	45194.06	44733.02	915.70	*RB
STORE	1001	45193.51	44744.36	915.72	*RB
STORE	1002	45193.18	44745.03	915.24	*RF
STORE	1003	45192.41	44761.08	914.84	*RE
STORE	1004	45192.39	44774.96	914.11	*TOE
STORE	1005	45192.06	44783.66	916.90	*TOP
STORE	1006	45193.03	44796.33	913.81	*TOE
STORE	1007	45192.98	44800.92	913.76	*TOE
STORE	1008	45194.76	44805.34	916.45	*TOP
STORE	1009	45194.01	44812.10	915.44	*IG
STORE	1010	45194.83	44834.88	917.17	*IG
STORE	1011	45180.31	44827.54	916.75	*TT
STORE	1012	45202.20	44857.27	917.14	*TOP
STORE	1013	45212.02	44853.68	912.45	*TOE
STORE	1014	45208.60	44829.41	911.71	*TOE
STORE	1015	45196.91	44830.37	917.05	*TOP
STORE	1016	45205.88	44804.95	916.67	*IH
STORE	1017	45206.89	44804.92	916.69	*IH
STORE	1018	45206.97	44802.83	915.27	*IH

STORE	1019	45206.92	44795.25	915.27	*IH
STORE	1020	45206.93	44792.63	916.67	*IH
STORE	1021	45216.55	44792.61	916.65	*IH
STORE	1022	45216.51	44793.94	916.66	*IH
STORE	1023	45216.54	44797.73	913.35	*IH
STORE	1024	45220.16	44829.36	916.57	*TOP
STORE	1025	45213.11	44830.05	912.39	*TOE
STORE	1026	45216.38	44852.72	911.74	*TOE
STORE	1027	45221.92	44850.28	916.55	*TOP
STORE	1028	45213.34	44793.29	911.27	*INV 24INCONCPIPE
STORE	1029	45210.16	44793.27	911.32	*INV 24INCONCPIPE
STORE	1030	45132.40	44744.40	915.74	*WM
STORE	1031	45128.92	44744.47	915.45	*RG
STORE	1032	45145.93	44747.71	915.59	*RB PC
STORE	1033	45145.87	44748.25	915.11	*RF PC
STORE	1034	45186.15	44745.82	915.19	*RF PT
STORE	1035	45186.13	44745.25	915.67	*RB PT
STORE	1036	45241.23	44741.08	915.43	*RF ANG PT
STORE	1037	45241.29	44740.54	915.93	*RB ANG PT
STORE	1038	45227.86	44710.96	914.79	*BEG GUARD RAIL
STORE	1039	45239.49	44695.97	916.54	*II
STORE	1040	45239.43	44690.83	916.49	*II
STORE	1041	45247.82	44690.74	916.57	*II
STORE	1042	45247.92	44695.91	916.52	*II
STORE	1043	45241.74	44694.98	911.09	*INV.30INCONCPIPE
STORE	1044	45246.83	44693.48	910.10	*INV.36INCONCPIPE
STORE	1045	45251.93	44693.49	910.92	*INV.36INCONCPIPE
STORE	1046	45256.88	44685.00	915.53	*TOP
STORE	1047	45256.30	44686.39	914.94	*IH
STORE	1048	45256.66	44691.02	911.36	*TOE
STORE	1049	45257.60	44695.58	911.15	*TOE
STORE	1050	45257.19	44699.34	914.79	*IH
STORE	1051	45251.43	44698.45	914.97	*IH
STORE	1052	45251.14	44687.10	915.00	*IH
STORE	1053	45263.31	44710.95	915.16	*RG
STORE	1054	45293.76	44614.24	913.84	*IG
STORE	1055	45293.81	44665.40	914.03	*IG
STORE	1056	45294.18	44668.11	914.91	*IG
STORE	1057	45294.08	44669.92	914.45	*TOP
STORE	1058	45294.34	44671.69	912.71	*TOE
STORE	1059	45294.18	44673.13	912.79	*TOE
STORE	1060	45294.01	44676.99	915.94	*TOP IG
STORE	1061	45294.15	44674.99	914.51	*TOP CONC
STORE	1062	45294.26	44686.10	916.10	*TOP
STORE	1063	45294.09	44690.96	912.79	*TOE
STORE	1064	45293.83	44695.38	912.45	*TOE
STORE	1065	45294.44	44701.05	916.40	*TOP
STORE	1066	45294.46	44709.54	916.97	*TOP
STORE	1067	45293.50	44713.85	915.22	*IG
STORE	1068	45294.04	44720.33	915.27	*RE
STORE	1069	45293.25	44733.45	915.61	*RF
STORE	1070	45293.16	44734.02	916.13	*RB
STORE	1071	45293.01	44740.55	916.24	*RB
STORE	1072	45292.99	44741.18	915.76	*RF
STORE	1073	45293.04	44760.84	915.31	*RE
STORE	1074	45293.48	44775.03	914.72	*IG
STORE	1075	45293.54	44792.56	914.95	*IG
STORE	1076	45293.57	44792.88	916.64	*IH
STORE	1077	45292.90	44793.35	915.12	*IG
STORE	1078	45295.40	44835.18	915.93	*IG
STORE	1079	45638.61	44389.66	919.16	*TOP
STORE	1080	45638.06	44381.34	913.97	*TOE
STORE	1081	45636.50	44374.25	913.79	*TOE
STORE	1082	45635.01	44368.94	917.73	*TOP
STORE	1083	45635.40	44375.46	913.75	*INV. 36IN CMP
STORE	1084	45636.02	44379.54	913.27	*INV. 36IN CMP
STORE	1085	45654.82	44389.86	919.12	*TOP
STORE	1086	45659.17	44383.56	914.27	*TOE
STORE	1087	45662.15	44379.79	914.14	*TOE
STORE	1088	45666.62	44371.17	917.65	*TOP
STORE	1089	45681.68	44399.62	921.87	*TOP
STORE	1090	45671.51	44401.55	914.43	*TOE
STORE	1091	45667.43	44401.75	913.99	*TOE
STORE	1092	45659.78	44402.97	919.84	*TOP
STORE	1093	45664.26	44437.53	919.95	*TOP
STORE	1094	45672.36	44435.97	914.25	*TOE
STORE	1095	45676.53	44434.78	914.24	*TOE
STORE	1096	45685.89	44433.38	919.72	*TOP
STORE	1097	45715.85	44664.95	921.59	*TOP

STORE	1098	45706.64	44666.61	916.03	*TOE
STORE	1099	45696.74	44667.25	915.61	*TOE
STORE	1100	45693.82	44667.13	921.86	*TOP
STORE	1101	45698.69	44691.44	922.65	*TOP
STORE	1102	45700.93	44690.20	916.13	*TOE
STORE	1103	45708.76	44684.39	915.94	*TOE
STORE	1104	45716.48	44683.83	920.43	*TOP
STORE	1105	45721.16	44687.19	921.02	*TOP
STORE	1106	45720.52	44691.14	916.33	*TOE
STORE	1107	45721.22	44697.87	916.44	*TOE
STORE	1108	45721.32	44703.75	920.92	*TOP
STORE	1109	45717.74	44706.26	921.14	*TR
STORE	1110	45715.68	44717.05	920.89	*FO
STORE	1111	45776.50	44775.66	920.87	*EP
STORE	1112	45784.15	44777.39	920.90	*FA 8 FT BLOCK
STORE	1113	45790.62	44775.24	921.06	*EG
STORE	1114	45814.18	44775.47	921.61	*EP
STORE	1115	45815.59	44774.47	921.43	*TR
STORE	1116	45792.73	44777.09	920.96	*IG FL CONC BLK
STORE	1117	45792.68	44765.28	920.87	*IG
STORE	1118	45792.91	44751.07	921.83	*RE
STORE	1119	45792.29	44736.79	922.20	*RC
STORE	1120	45792.20	44722.65	921.86	*RE
STORE	1121	45779.48	44706.20	921.53	*SM
STORE	1122	45791.62	44700.96	921.04	*TOP
STORE	1123	45791.86	44693.49	917.55	*TOE
STORE	1124	45791.53	44691.23	917.67	*TOE
STORE	1125	45788.09	44681.82	921.65	*TOP
STORE	1126	45793.87	44668.26	921.77	*IG FL 8FT BLK
STORE	1127	45759.83	44668.19	921.57	*FA 8FT CONC BLK
STORE	1128	45763.32	44681.95	921.36	*EP
STORE	1129	45764.88	44688.61	920.90	*WF
STORE	1130	45768.83	44687.70	921.39	*WV
STORE	1131	45773.49	44687.42	921.34	*WV
STORE	1132	45835.33	44686.39	922.51	*TOP
STORE	1133	45834.89	44694.05	918.23	*INV. 30IN CMP
STORE	1134	45835.29	44697.17	921.49	*TOP
STORE	1135	45877.04	44700.88	923.99	*TOP
STORE	1136	45876.41	44695.79	919.91	*INV. 24IN CMP
STORE	1137	45876.24	44688.14	923.21	*TOP
STORE	1138	45876.68	44684.46	922.89	*WV
STORE	1139	45891.32	44668.35	922.37	*IG FL
STORE	1140	45893.39	44684.66	922.47	*TOE
STORE	1141	45893.53	44688.38	924.62	*TOP
STORE	1142	45893.05	44695.32	920.58	*TOE
STORE	1143	45892.91	44698.69	920.63	*TOE
STORE	1144	45892.70	44704.60	925.07	*TOP
STORE	1145	45893.40	44710.44	922.13	*TOE
STORE	1146	45892.99	44715.19	921.85	*FO
STORE	1147	45892.59	44722.78	922.94	*RE
STORE	1148	45892.39	44737.01	923.41	*RC
STORE	1149	45892.64	44750.36	923.15	*RE
STORE	1150	45892.09	44777.29	921.86	*IG FL
STORE	1151	45885.65	44773.43	922.24	*WM
STORE	1152	45848.79	44777.37	921.64	*C/L 30FT GATE
STORE	1153	45861.31	44668.39	921.48	*C/L 20FT GATE
STORE	1154	45958.25	44668.33	923.22	*FA 8FT CONC.BLK
STORE	1155	45999.53	44621.26	923.17	*IG
STORE	1156	45995.63	44666.87	923.63	*IG
STORE	1157	45995.25	44681.69	923.63	*IG
STORE	1158	45994.91	44683.15	924.57	*IG
STORE	1159	45995.41	44687.40	925.14	*TOP
STORE	1160	45995.06	44691.27	921.87	*TOE
STORE	1161	45994.66	44698.50	922.01	*TOE
STORE	1162	45993.93	44704.74	926.56	*TOP
STORE	1163	45993.51	44709.77	923.27	*TOE
STORE	1164	45993.38	44714.74	922.95	*TOE FO
STORE	1165	45993.25	44723.80	924.26	*RE
STORE	1166	45993.29	44737.23	924.61	*RC
STORE	1167	45993.11	44751.64	924.33	*RE
STORE	1168	45992.18	44762.00	923.07	*IG
STORE	1169	45991.64	44777.33	923.30	*IG FL
STORE	1170	46023.04	44761.75	923.87	*RG
STORE	1171	46022.30	44710.33	924.42	*RG
STORE	1172	46027.99	44700.54	925.58	*TOP
STORE	1173	46027.42	44696.25	923.82	*BEG TOP CONC
STORE	1174	46027.47	44691.26	923.72	*BEG TOP CONC
STORE	1175	46027.52	44693.28	921.82	*BEG IC
STORE	1176	46027.56	44694.31	921.85	*BEG IC

STORE	1177	46047.13	44777.45	926.13	*IG FL
STORE	1178	46059.08	44780.34	931.17	*FL ON CONC
STORE	1179	46046.78	44762.77	924.56	*CONC TOE
STORE	1180	46092.48	44780.60	932.35	*FL ON CONC
STORE	1181	46093.38	44762.16	925.67	*CONC TOE
STORE	1182	46093.48	44761.55	925.01	*IG
STORE	1183	46093.08	44751.90	925.66	*RE
STORE	1184	46093.95	44737.38	925.86	*RC
STORE	1185	46093.78	44724.41	925.50	*RE
STORE	1186	46093.75	44713.95	924.34	*FO
STORE	1187	46094.50	44710.09	924.20	*TOE
STORE	1188	46094.39	44699.84	926.27	*TOP
STORE	1189	46094.11	44696.27	924.14	*TOP CONC
STORE	1190	46094.47	44694.52	922.55	*IC
STORE	1191	46094.85	44693.49	922.53	*IC
STORE	1192	46094.67	44691.40	924.46	*TOP CONC
STORE	1193	46094.33	44688.82	925.60	*TOP IG
STORE	1194	46094.63	44686.91	923.80	*IG
STORE	1195	46095.36	44666.62	923.59	*IG
STORE	1196	46094.65	44620.20	923.18	*IG
STORE	1197	46198.98	44624.60	923.68	*IG
STORE	1198	46196.61	44667.84	924.82	*IG
STORE	1199	46196.54	44669.74	924.09	*IG
STORE	1200	46195.94	44687.19	924.55	*IG
STORE	1201	46195.81	44689.35	926.14	*TOP IG
STORE	1202	46195.77	44691.96	925.47	*TOP CONC
STORE	1203	46195.84	44694.13	923.50	*IC
STORE	1204	46195.80	44696.44	923.33	*IC
STORE	1205	46195.23	44701.65	927.34	*TOP IG
STORE	1206	46195.32	44709.03	925.35	*TOE
STORE	1207	46195.29	44712.78	925.44	*TOE FO
STORE	1208	46206.12	44706.25	926.51	*RG
STORE	1209	46194.66	44725.11	926.92	*RE
STORE	1210	46194.14	44737.34	927.20	*RC
STORE	1211	46194.03	44752.36	926.99	*RE
STORE	1212	46193.77	44762.44	927.34	*IC
STORE	1213	46193.93	44778.64	933.97	*FL ON CONC
STORE	1214	46128.23	44776.44	932.73	*EP
STORE	1215	46254.10	44777.07	933.49	*EP
STORE	1216	46292.72	44779.16	933.39	*FL ON CONC
STORE	1217	46293.85	44763.40	928.17	*IC
STORE	1218	46293.95	44761.22	927.71	*IG
STORE	1219	46294.41	44752.28	927.91	*RE
STORE	1220	46294.36	44737.91	928.05	*RC
STORE	1221	46294.40	44725.26	927.77	*RE
STORE	1222	46294.23	44712.99	926.40	*FO
STORE	1223	46294.68	44707.61	926.38	*TOE
STORE	1224	46294.76	44699.97	927.57	*TOP IG
STORE	1225	46294.77	44697.75	926.50	*TOP CONC
STORE	1226	46294.64	44695.74	924.50	*IC
STORE	1227	46294.80	44694.72	924.50	*IC
STORE	1228	46294.89	44692.58	926.44	*TOP CONC
STORE	1229	46295.15	44690.04	927.37	*TOP IG
STORE	1230	46295.30	44688.18	925.62	*IG
STORE	1231	46295.78	44672.02	924.88	*IG
STORE	1232	46295.86	44668.55	925.90	*IG
STORE	1233	46297.19	44619.02	925.04	*IG
STORE	1234	46332.03	44706.05	926.39	*SM
STORE	1235	46361.48	44779.57	931.12	*END CONC AT FL
STORE	1236	46361.11	44764.03	928.62	*END CONC TOE
STORE	1237	46392.08	44779.78	929.60	*FL ON IG
STORE	1238	46393.15	44763.44	928.33	*IG
STORE	1239	46394.04	44752.86	928.73	*RE
STORE	1240	46394.12	44738.28	929.03	*RC
STORE	1241	46394.35	44725.28	928.57	*RE
STORE	1242	46394.59	44713.95	927.64	*FO
STORE	1243	46394.16	44710.85	927.05	*IG
STORE	1244	46394.00	44707.74	927.08	*IG
STORE	1245	46394.27	44700.19	928.32	*TOP IG
STORE	1246	46393.94	44698.23	927.34	*TOP CONC
STORE	1247	46394.60	44696.20	925.34	*IC
STORE	1248	46394.77	44695.22	925.35	*IC
STORE	1249	46394.39	44692.94	927.36	*TOP CONC
STORE	1250	46394.62	44690.82	928.00	*TOP IG
STORE	1251	46394.83	44688.86	926.22	*IG
STORE	1252	46394.72	44671.13	925.74	*IG
STORE	1253	46394.48	44669.58	926.23	*IG
STORE	1254	46394.66	44629.76	925.80	*IG
STORE	1255	46497.44	44627.21	926.80	*IG

STORE	1256	46496.12	44668.75	927.37	*IG
STORE	1257	46496.23	44670.38	926.69	*IG
STORE	1258	46495.92	44689.43	927.18	*IG
STORE	1259	46495.54	44691.76	928.48	*TOP IG
STORE	1260	46495.32	44693.27	928.28	*TOP CONC
STORE	1261	46495.40	44695.45	926.27	*IC
STORE	1262	46495.23	44696.48	926.26	*IC
STORE	1263	46495.39	44698.59	928.30	*TOP CONC
STORE	1264	46495.24	44700.88	929.06	*TOP IG
STORE	1265	46495.04	44712.35	928.09	*FO
STORE	1266	46494.63	44725.42	929.34	*RE
STORE	1267	46494.35	44738.50	929.88	*RC
STORE	1268	46494.80	44754.32	929.66	*RE
STORE	1269	46494.41	44767.85	929.50	*RP
STORE	1270	46494.08	44781.24	930.02	*RP
STORE	1271	46488.67	44777.86	929.68	*EP
STORE	1272	46483.68	44780.36	929.56	*FL PC
STORE	1273	46490.53	44783.68	930.13	*FL MOC
STORE	1274	46491.57	44789.36	930.63	*FL PT
STORE	1275	46494.34	44806.71	931.14	*WM
STORE	1276	46491.31	44821.07	931.50	*FF CONC BLK
STORE	1277	46512.45	44806.85	931.26	*C/L RD
STORE	1278	46531.86	44807.27	931.35	*BEG FL CONC BLK
STORE	1279	46531.88	44785.30	930.55	*FL PC
STORE	1280	46535.33	44781.98	930.50	*FL MOC
STORE	1281	46539.72	44780.58	930.64	*FL PT
STORE	1282	46542.55	44705.63	928.60	*SM
STORE	1283	46594.37	44780.72	930.98	*FL IG
STORE	1284	46594.31	44767.04	930.13	*IG
STORE	1285	46595.43	44754.95	930.52	*RE
STORE	1286	46621.09	44778.44	931.50	*IV
STORE	1287	46622.49	44778.49	931.50	*IV
STORE	1288	46595.49	44738.36	930.73	*RC
STORE	1289	46595.90	44726.25	930.29	*RE
STORE	1290	46595.34	44712.26	929.04	*FO
STORE	1291	46595.90	44704.70	928.79	*IG
STORE	1292	46596.02	44700.40	929.91	*TOP IG
STORE	1293	46595.91	44698.90	929.39	*TOP CONC
STORE	1294	46596.10	44696.89	927.42	*IC
STORE	1295	46596.11	44695.87	927.41	*IC
STORE	1296	46596.22	44693.67	929.41	*TOP CONC
STORE	1297	46596.37	44691.88	929.85	*TOP IG
STORE	1298	46596.38	44689.98	928.27	*IG
STORE	1299	46597.04	44671.07	927.73	*IG
STORE	1300	46597.05	44669.44	928.22	*IG
STORE	1301	46597.31	44631.31	928.11	*IG
STORE	1302	46699.18	44633.04	929.56	*IG
STORE	1303	46699.04	44669.41	929.46	*IG
STORE	1304	46699.51	44670.94	929.00	*IG
STORE	1305	46698.46	44690.53	929.48	*IG
STORE	1306	46698.08	44692.39	931.28	*TOP IG
STORE	1307	46698.35	44694.00	930.45	*TOP CONC
STORE	1308	46698.71	44696.20	928.46	*IC
STORE	1309	46698.61	44697.21	928.46	*IC
STORE	1310	46699.17	44699.30	930.47	*TOP CONC
STORE	1311	46699.36	44701.43	931.23	*TOP IG
STORE	1312	46699.31	44708.76	929.75	*IG
STORE	1313	46698.72	44711.69	930.21	*FO
STORE	1314	46696.83	44727.54	931.46	*RE
STORE	1315	46696.70	44739.86	931.73	*RC
STORE	1316	46696.11	44755.56	931.47	*RE
STORE	1317	46695.89	44769.30	930.83	*IG
STORE	1318	46695.83	44781.08	932.15	*FL IG
STORE	1319	46753.86	44777.72	932.36	*EP
STORE	1320	46787.27	44689.48	931.81	*RG TR
STORE	1321	46800.30	44632.29	930.37	*IG
STORE	1322	46800.19	44670.72	930.74	*IG
STORE	1323	46800.11	44672.46	930.10	*IG
STORE	1324	46798.88	44688.30	930.59	*IG
STORE	1325	46798.63	44692.96	932.20	*TOP IG
STORE	1326	46798.33	44694.54	931.48	*TOP CONC
STORE	1327	46798.28	44696.79	929.44	*IC
STORE	1328	46798.12	44697.68	929.43	*IC
STORE	1329	46798.14	44699.72	931.36	*TOP CONC
STORE	1330	46798.16	44702.12	932.20	*TOP IG
STORE	1331	46797.53	44709.78	930.60	*IG
STORE	1332	46796.93	44712.52	931.26	*FO
STORE	1333	46796.81	44727.61	932.51	*RE
STORE	1334	46796.93	44740.42	932.74	*RC

STORE	1335	46796.93	44757.73	932.29	*RE
STORE	1336	46797.92	44771.98	931.56	*IG
STORE	1337	46798.74	44781.75	932.75	*FL IG
STORE	1338	46872.94	44686.12	932.32	*AIR RELIEF VALVE
STORE	1339	46884.60	44706.20	931.52	*SM
STORE	1340	46917.05	44702.25	933.13	*GL 40' West
STORE	1341	46946.80	44781.48	934.53	*GL 40' East
STORE	1342	46895.99	44782.21	933.70	*FL IG
STORE	1343	46896.95	44771.10	932.58	*IG
STORE	1344	46897.25	44758.30	933.13	*RE
STORE	1345	46897.32	44741.01	933.55	*RC
STORE	1346	46897.54	44727.47	933.22	*RE
STORE	1347	46897.82	44716.17	932.40	*IG
STORE	1348	46898.10	44714.08	931.54	*FO
STORE	1349	46898.04	44710.47	932.67	*IG
STORE	1350	46898.09	44700.27	932.32	*TOP CONC
STORE	1351	46898.44	44698.09	930.35	*IC
STORE	1352	46898.52	44697.02	930.38	*IC
STORE	1353	46898.73	44694.89	932.39	*TOP CONC
STORE	1354	46898.75	44692.73	933.25	*TOP IG
STORE	1355	46899.15	44689.44	931.51	*IG
STORE	1356	46898.85	44671.00	930.98	*IG
STORE	1357	46898.73	44669.28	931.49	*IG
STORE	1358	46901.21	44628.89	931.28	*IG
STORE	1359	47002.88	44632.28	931.48	*IG
STORE	1360	47001.80	44670.86	932.01	*IG
STORE	1361	47001.80	44672.68	931.53	*IG
STORE	1362	47000.79	44691.59	931.95	*IG
STORE	1363	47000.65	44693.31	933.46	*TOP IG
STORE	1364	47000.55	44695.25	932.84	*TOP CONC
STORE	1365	47000.21	44697.47	930.88	*IC
STORE	1366	47000.07	44698.45	930.86	*IC
STORE	1367	46999.87	44700.58	932.84	*TOP CONC
STORE	1368	46999.69	44702.57	933.58	*TOP IG
STORE	1369	46996.83	44707.70	932.86	*IG
STORE	1370	46998.10	44716.75	933.16	*FO
STORE	1371	46997.82	44727.84	933.89	*RE
STORE	1372	46997.57	44742.40	934.21	*RC
STORE	1373	46997.80	44758.92	933.79	*RE
STORE	1374	46998.06	44771.23	933.25	*IG
STORE	1375	46998.81	44782.70	934.73	*FL IG
STORE	1376	47098.10	44783.06	934.67	*FL IG
STORE	1377	47097.98	44772.67	933.62	*IG
STORE	1378	47098.43	44759.43	934.45	*RE
STORE	1379	47098.49	44743.39	934.81	*RC
STORE	1380	47098.21	44728.62	934.36	*RE
STORE	1381	47098.11	44716.56	933.27	*FO
STORE	1382	47098.21	44711.83	933.20	*IG
STORE	1383	47098.10	44703.58	934.56	*TOP IG
STORE	1384	47097.97	44701.18	932.97	*TOP CONC
STORE	1385	47099.03	44699.30	931.19	*IC
STORE	1386	47099.08	44697.98	931.18	*IC
STORE	1387	47098.72	44695.99	933.06	*TOP CONC
STORE	1388	47098.90	44694.29	933.77	*TOP IG
STORE	1389	47099.03	44692.48	932.27	*IG
STORE	1390	47098.95	44673.00	931.91	*IG
STORE	1391	47099.07	44670.88	932.20	*IG
STORE	1392	47099.18	44633.38	931.86	*IG
STORE	1393	47200.19	44633.77	931.95	*IG
STORE	1394	47200.11	44670.23	932.41	*IG
STORE	1395	47198.95	44691.66	933.02	*IG
STORE	1396	47199.25	44693.67	934.58	*TOP IG
STORE	1397	47200.44	44696.13	933.19	*TOP CONC
STORE	1398	47200.80	44698.28	931.21	*IC
STORE	1399	47200.78	44699.22	931.21	*IC
STORE	1400	47200.74	44701.27	933.19	*TOP CONC
STORE	1401	47200.59	44704.56	935.46	*TOP IG
STORE	1402	47199.61	44716.46	933.51	*IG FO
STORE	1403	47198.76	44730.30	934.81	*RE
STORE	1404	47198.49	44744.53	935.10	*RC
STORE	1405	47198.34	44759.83	934.80	*RE
STORE	1406	47197.80	44773.60	934.26	*IG
STORE	1407	47198.58	44783.41	934.66	*FL IG
STORE	1408	47231.59	44690.48	933.50	*WF
STORE	1409	47236.82	44688.45	932.93	*WV
STORE	1410	47275.75	44704.21	936.29	*IH
STORE	1411	47283.56	44703.91	936.19	*IH
STORE	1412	47283.26	44696.09	936.28	*IH
STORE	1413	47282.74	44699.50	931.82	*INV 18INCONCPIPE

STORE	1414	47281.27	44703.29	931.65	*INV 18INCONCPIPE
STORE	1415	47257.30	44731.67	934.92	*RE PC
STORE	1416	47290.64	44713.84	934.04	*C/L 6FT RV
STORE	1417	47292.89	44710.62	934.12	*BEG RX
STORE	1418	47297.81	44692.33	934.57	*RH
STORE	1419	47297.27	44692.33	935.04	*RB
STORE	1420	47293.13	44690.25	935.41	*RG
STORE	1421	47297.06	44639.87	935.65	*RB
STORE	1422	47297.67	44639.74	935.21	*RH
STORE	1423	47296.91	44593.61	935.66	*RB
STORE	1424	47297.46	44593.62	935.21	*RH
STORE	1425	47311.04	44593.93	935.01	*RC
STORE	1426	47326.21	44594.32	934.76	*RF
STORE	1427	47326.83	44594.39	935.27	*RB
STORE	1428	47327.01	44640.17	935.22	*RB
STORE	1429	47326.41	44640.18	934.72	*RF
STORE	1430	47326.76	44691.14	934.55	*RH
STORE	1431	47327.32	44691.35	934.99	*RB
STORE	1432	47333.91	44687.27	934.80	*TR
STORE	1433	47321.60	44708.12	934.34	*SM
STORE	1434	47331.19	44710.34	934.37	*BEG RX
STORE	1435	47333.36	44713.07	934.35	*C/L 6FT RV
STORE	1436	47341.00	44704.39	932.29	*WV T.O.N.
STORE	1437	47367.73	44731.84	935.14	*RE PC
STORE	1438	47311.83	44760.35	935.31	*RE
STORE	1439	47312.52	44745.48	935.36	*RC
STORE	1440	47277.02	44770.84	934.93	*IV
STORE	1441	47281.37	44777.97	935.38	*EP
STORE	1442	47283.19	44783.65	935.20	*FA
STORE	1443	47292.34	44787.69	935.21	*FA
STORE	1444	47292.90	44812.14	935.74	*END FL CONC BLK
STORE	1445	47298.79	44774.47	935.70	*TOP IG
STORE	1446	47293.78	44773.47	935.89	*IH
STORE	1447	47289.32	44773.80	935.86	*IH
STORE	1448	47292.24	44774.34	932.07	*INV.18INCONCPIPE
STORE	1449	47287.19	44773.88	935.13	*RG
STORE	1450	47303.68	44784.06	936.17	*TOP IG
STORE	1451	47303.44	44789.96	936.17	*TOP IG
STORE	1452	47303.29	44787.17	933.06	*INV 24INCONCPIPE
STORE	1453	47314.43	44782.93	936.16	*TOP IG
STORE	1454	47326.09	44783.59	935.54	*TOP IG
STORE	1455	47322.66	44793.46	935.66	*TOP IG
STORE	1456	47319.66	44793.34	933.28	*TOE
STORE	1457	47316.18	44793.90	933.17	*TOE
STORE	1458	47320.44	44787.76	933.33	*TOE
STORE	1459	47314.09	44787.04	933.03	*INV.24INCONCPIPE
STORE	1460	47313.57	44792.43	936.11	*TOP IG
STORE	1461	47312.61	44838.40	935.13	*TOP IG
STORE	1462	47314.52	44838.54	933.48	*TOE
STORE	1463	47317.52	44838.51	933.67	*TOE
STORE	1464	47322.21	44838.31	936.58	*TOP IG
STORE	1465	47324.39	44838.63	934.90	*IG
STORE	1466	47319.53	44887.84	935.48	*TOP IG
STORE	1467	47317.63	44887.90	933.88	*TOE
STORE	1468	47314.49	44888.12	933.78	*TOE
STORE	1469	47312.59	44888.37	935.64	*TOP IG
STORE	1470	47327.86	44778.10	935.92	*EP
STORE	1471	47334.65	44771.43	930.65	*WV T.O.N
STORE	1472	47353.29	44770.66	931.51	*WV T.O.N
STORE	1473	47348.05	44713.41	933.58	*INV 18IN CMP
STORE	1474	47367.58	44713.54	934.17	*INV 18IN CMP
STORE	1475	47374.40	44706.32	935.51	*IH
STORE	1476	47368.15	44705.52	935.56	*IH
STORE	1477	47368.74	44697.35	935.58	*IH
STORE	1478	47369.22	44700.86	931.86	*INV 18INCONCPIPE
STORE	1479	47398.89	44636.03	934.99	*IG
STORE	1480	47398.90	44689.06	934.08	*IG
STORE	1481	47399.01	44690.23	934.88	*IG
STORE	1482	47398.81	44691.68	934.54	*IG
STORE	1483	47399.51	44712.54	935.40	*IG
STORE	1484	47399.71	44715.48	934.72	*IG
STORE	1485	47399.49	44720.62	934.95	*FO
STORE	1486	47399.69	44732.04	935.18	*RE
STORE	1487	47399.54	44745.86	935.34	*RC
STORE	1488	47399.13	44759.25	935.37	*RE
STORE	1489	47399.37	44779.02	934.58	*IG
STORE	1490	47400.46	44847.83	935.21	*IG
STORE	1491	47501.73	44849.15	935.45	*IG
STORE	1492	47502.69	44779.05	934.72	*IG

STORE	1493	47501.83	44759.41	935.70	*RE	
STORE	1494	47500.51	44746.34	935.66	*RC	
STORE	1495	47500.52	44732.30	935.48	*RE	
STORE	1496	47500.01	44720.00	935.03	*IG	
STORE	1497	47500.06	44715.20	935.03	*IG	
STORE	1498	47499.65	44709.30	935.80	*IG	
STORE	1499	47500.43	44699.83	935.18	*IG	
STORE	1500	47500.67	44698.14	935.58	*IG	
STORE	1501	47500.74	44695.38	934.68	*IG	
STORE	1502	47500.95	44692.08	935.87	*IG	
STORE	1503	47500.65	44689.64	935.11	*IG	
STORE	1504	47500.91	44632.93	935.61	*IG	
STORE	1505	47599.87	44628.82	936.12	*IG	
STORE	1506	47599.91	44689.07	935.98	*IG	
STORE	1507	47599.97	44691.56	936.92	*IG	
STORE	1508	47600.06	44694.99	935.65	*IG	
STORE	1509	47600.33	44697.64	936.52	*IG	
STORE	1510	47600.25	44707.76	936.44	*IG	
STORE	1511	47600.77	44715.31	935.16	*IG	
STORE	1512	47600.40	44720.48	935.31	*FO	
STORE	1513	47600.51	44731.77	935.80	*RE	
STORE	1514	47600.61	44745.69	936.00	*RC	
STORE	1515	47600.00	44759.41	935.92	*RE	
STORE	1516	47600.44	44779.77	935.08	*IG	
STORE	1517	47601.13	44833.50	935.35	*IG	
STORE	1518	47647.45	44709.19	937.68	*RG	TR
STORE	1519	47700.35	44636.33	936.69	*IG	
STORE	1520	47700.10	44690.47	936.68	*IG	
STORE	1521	47699.86	44692.30	937.47	*IG	
STORE	1522	47699.77	44694.83	936.35	*IG	
STORE	1523	47699.95	44697.15	936.45	*IG	
STORE	1524	47700.02	44698.71	937.11	*IG	
STORE	1525	47700.09	44706.52	937.09	*IG	
STORE	1526	47700.36	44716.63	935.41	*IG	
STORE	1527	47700.56	44719.97	935.69	*FO	
STORE	1528	47700.74	44731.52	936.15	*RE	
STORE	1529	47700.74	44744.78	936.40	*RC	
STORE	1530	47700.81	44757.73	936.41	*RE	
STORE	1531	47700.67	44778.74	935.42	*IG	
STORE	1532	47727.11	44776.38	936.20	*EP	
STORE	1533	47701.01	44848.76	936.03	*IG	
STORE	1534	47802.52	44851.02	936.48	*IG	
STORE	1535	47801.06	44792.11	936.44	*IG	
STORE	1536	47801.09	44777.55	935.85	*IG	
STORE	1537	47801.34	44757.41	936.92	*RE	
STORE	1538	47801.44	44744.18	936.97	*RC	
STORE	1539	47801.68	44731.42	936.77	*RE	
STORE	1540	47801.42	44719.32	936.08	*FO	
STORE	1541	47800.94	44715.96	935.74	*IG	
STORE	1542	47794.28	44706.14	936.68	*SM	
STORE	1543	47802.30	44705.60	937.98	*IG	
STORE	1544	47802.05	44700.03	936.82	*IG	
STORE	1545	47802.10	44698.01	937.46	*IG	
STORE	1546	47802.11	44696.44	936.72	*IG	
STORE	1547	47802.07	44694.80	936.72	*IG	
STORE	1548	47802.20	44692.00	937.81	*IG	
STORE	1549	47802.38	44689.35	937.08	*IG	
STORE	1550	47802.46	44636.13	937.22	*IG	
STORE	1551	47901.12	44631.66	937.58	*IG	
STORE	1552	47901.32	44689.64	937.50	*IG	
STORE	1553	47901.31	44692.42	938.39	*IG	
STORE	1554	47901.48	44695.97	937.29	*IG	
STORE	1555	47901.58	44698.71	938.16	*IG	
STORE	1556	47901.46	44706.52	938.27	*IG	
STORE	1557	47901.56	44714.48	936.64	*IG	
STORE	1558	47901.78	44718.35	936.70	*FO	
STORE	1559	47902.01	44729.59	937.39	*RE	
STORE	1560	47901.96	44743.82	937.42	*RC	
STORE	1561	47902.62	44756.26	937.20	*RE	
STORE	1562	47903.68	44778.30	936.25	*IG	
STORE	1563	47903.52	44795.61	937.01	*IG	
STORE	1564	47903.07	44850.87	937.20	*IG	
STORE	1565	48002.77	44856.50	937.63	*IG	
STORE	1566	48002.99	44791.87	937.51	*IG	
STORE	1567	48002.66	44779.33	936.55	*IG	
STORE	1568	48001.75	44755.37	937.78	*RE	
STORE	1569	48001.82	44742.66	937.93	*RC	
STORE	1570	48001.78	44728.65	937.84	*RE	
STORE	1571	48001.64	44717.70	937.39	*FO	

STORE	1572	48001.55	44712.64	937.38	*IG
STORE	1573	48001.56	44707.34	938.50	*IG
STORE	1574	48001.55	44698.36	938.54	*IG
STORE	1575	48001.51	44695.93	937.76	*IG
STORE	1576	48001.38	44692.72	938.66	*IG
STORE	1577	48001.27	44689.71	938.06	*IG
STORE	1578	48000.15	44636.84	938.32	*IG
STORE	1579	48101.94	44629.94	938.70	*IG
STORE	1580	48101.48	44690.68	938.75	*IG
STORE	1581	48101.72	44693.47	939.34	*IG
STORE	1582	48102.18	44696.69	938.29	*IG
STORE	1583	48102.41	44699.27	939.13	*IG
STORE	1584	48102.52	44707.47	938.81	*IG
STORE	1585	48102.37	44712.70	937.59	*IG
STORE	1586	48102.30	44717.20	937.76	*FO
STORE	1587	48102.02	44727.27	938.42	*RE
STORE	1588	48102.22	44741.92	938.75	*RC
STORE	1589	48102.40	44754.80	938.65	*RE
STORE	1590	48102.93	44777.90	937.13	*IG
STORE	1591	48103.54	44792.84	937.93	*IG
STORE	1592	48104.00	44854.06	938.38	*IG
STORE	1593	48233.89	44703.89	939.48	*SM
STORE	1594	48202.23	44634.51	939.35	*IG
STORE	1595	48202.54	44691.86	939.14	*IG
STORE	1596	48202.70	44694.49	939.94	*IG
STORE	1597	48202.89	44697.92	938.61	*IG
STORE	1598	48203.09	44700.32	939.40	*IG
STORE	1599	48203.55	44708.18	939.25	*IG
STORE	1600	48203.16	44712.30	938.36	*IG
STORE	1601	48202.95	44717.01	938.45	*FO
STORE	1602	48202.99	44727.34	939.03	*RE
STORE	1603	48202.98	44741.34	939.53	*RC
STORE	1604	48202.74	44754.28	939.27	*RE
STORE	1605	48197.58	44774.11	938.97	*EP
STORE	1606	48203.64	44776.84	938.69	*IG
STORE	1607	48203.44	44782.13	937.89	*IG
STORE	1608	48204.49	44794.13	938.57	*IG
STORE	1609	48206.30	44846.26	938.95	*IG
STORE	1610	48304.88	44849.68	939.52	*IG
STORE	1611	48303.57	44791.83	939.27	*IG
STORE	1612	48302.41	44777.52	938.30	*IG
STORE	1613	48303.23	44753.81	940.03	*RE
STORE	1614	48302.50	44740.38	940.30	*RC
STORE	1615	48302.83	44727.56	940.03	*RE
STORE	1616	48302.72	44717.13	939.27	*FO
STORE	1617	48302.59	44710.78	939.07	*IG
STORE	1618	48302.89	44709.36	939.63	*IG
STORE	1619	48302.96	44702.30	940.06	*IG
STORE	1620	48302.75	44699.79	939.05	*IG
STORE	1621	48302.89	44695.86	940.30	*IG
STORE	1622	48302.68	44693.35	939.68	*IG
STORE	1623	48301.47	44637.74	939.91	*IG
STORE	1624	48402.45	44633.44	940.20	*IG
STORE	1625	48403.28	44692.99	940.28	*IG
STORE	1626	48402.82	44695.13	940.68	*IG
STORE	1627	48402.97	44699.05	939.64	*IG
STORE	1628	48402.73	44701.70	940.68	*IG
STORE	1629	48402.95	44709.58	940.31	*IG
STORE	1630	48403.01	44713.01	939.86	*IG
STORE	1631	48403.18	44716.52	940.15	*FO
STORE	1632	48403.04	44727.53	940.84	*RE
STORE	1633	48402.76	44740.08	940.99	*RC
STORE	1634	48403.99	44753.54	940.83	*RE
STORE	1635	48404.30	44777.08	939.09	*IG
STORE	1636	48404.43	44790.82	939.92	*IG
STORE	1637	48405.52	44848.46	940.14	*IG
STORE	1638	48505.69	44852.36	940.89	*IG
STORE	1639	48505.35	44789.93	940.63	*IG
STORE	1640	48505.43	44777.51	939.82	*IG
STORE	1641	48504.19	44753.27	941.65	*RE
STORE	1642	48503.77	44739.41	941.80	*RC
STORE	1643	48503.35	44726.01	941.54	*RE
STORE	1644	48503.94	44715.12	940.72	*FO
STORE	1645	48503.61	44711.97	940.62	*IG
STORE	1646	48503.92	44709.41	941.10	*IG
STORE	1647	48502.78	44702.11	941.16	*IG
STORE	1648	48502.93	44699.39	940.30	*IG
STORE	1649	48503.02	44695.39	941.66	*IG
STORE	1650	48503.12	44692.76	941.01	*IG

STORE	1651	48502.24	44639.17	940.77	*IG
STORE	1652	48590.34	44611.19	940.88	*IG
STORE	1653	48594.73	44611.36	943.68	*TOP CONC
STORE	1654	48596.92	44611.48	941.86	*IC
STORE	1655	48598.06	44611.41	941.82	*IC
STORE	1656	48600.11	44611.34	943.57	*TOP CONC
STORE	1657	48600.31	44651.38	943.64	*BEG TOP CONC
STORE	1658	48595.04	44651.33	943.63	*BEG TOP CONC
STORE	1659	48597.20	44651.37	941.91	*BEG IC
STORE	1660	48598.24	44651.31	941.93	*BEG IC
STORE	1661	48592.04	44651.20	940.94	*IG
STORE	1662	48603.20	44642.87	944.08	*IG
STORE	1663	48604.62	44684.44	943.94	*IG
STORE	1664	48603.68	44714.59	943.01	*FO
STORE	1665	48603.92	44724.80	942.45	*RE
STORE	1666	48599.06	44713.22	942.64	*TOP IG
STORE	1667	48599.13	44707.14	942.84	*TOP IG
STORE	1668	48599.06	44710.19	941.01	*INV 18IN CMP
STORE	1669	48619.11	44709.86	941.44	*INV 18IN CMP
STORE	1670	48619.28	44707.73	943.09	*TOP IG
STORE	1671	48619.33	44712.54	943.05	*TOP IG
STORE	1672	48651.06	44682.46	938.54	*WV T.O.N.
STORE	1673	48651.31	44678.91	939.63	*WV T.O.N.
STORE	1674	48603.55	44739.03	942.63	*RC
STORE	1675	48603.80	44751.23	942.48	*RE
STORE	1676	48603.88	44774.95	940.29	*IG
STORE	1677	48603.92	44793.67	941.23	*IG
STORE	1678	48603.88	44845.63	941.45	*IG
STORE	1679	48665.43	44772.52	943.26	*EP
STORE	1680	48679.64	44768.35	943.08	*TOP IG
STORE	1681	48679.17	44773.13	943.80	*TOP IG
STORE	1682	48679.20	44770.91	941.86	*INV 12IN CMP
STORE	1683	48719.28	44771.24	942.36	*INV 12IN CMP
STORE	1684	48719.25	44773.40	943.85	*TOP IG
STORE	1685	48718.97	44769.77	943.68	*TOP IG
STORE	1686	48703.34	44839.29	943.80	*IG
STORE	1687	48703.64	44779.84	944.76	*IG
STORE	1688	48703.62	44751.62	943.32	*RE
STORE	1689	48703.37	44738.25	943.46	*RC
STORE	1690	48703.38	44723.95	943.38	*RE
STORE	1691	48702.78	44714.01	942.71	*FO
STORE	1692	48703.05	44710.61	942.39	*IG
STORE	1693	48703.00	44708.31	943.73	*IG
STORE	1694	48702.97	44699.28	944.32	*IG
STORE	1695	48702.89	44639.13	944.39	*IG
STORE	1696	48801.21	44620.19	944.98	*IG
STORE	1697	48803.53	44700.58	944.98	*IG
STORE	1698	48803.80	44709.64	943.48	*IG
STORE	1699	48803.58	44712.99	943.43	*FO
STORE	1700	48803.96	44722.91	944.35	*RE
STORE	1701	48804.70	44737.88	944.36	*RC
STORE	1702	48803.84	44750.35	944.23	*RE
STORE	1703	48802.85	44768.27	943.66	*IG
STORE	1704	48803.81	44776.58	944.78	*IG
STORE	1705	48805.69	44850.29	944.54	*IG
STORE	1706	48905.67	44850.25	944.82	*IG
STORE	1707	48904.92	44776.39	945.01	*IG
STORE	1708	48904.89	44767.57	944.20	*IG
STORE	1709	48904.23	44749.46	945.21	*RE
STORE	1710	48904.41	44737.38	945.30	*RC
STORE	1711	48904.22	44722.10	945.19	*RE
STORE	1712	48903.27	44711.67	944.53	*FO
STORE	1713	48903.38	44709.08	943.87	*IG
STORE	1714	48903.18	44705.52	945.00	*IG
STORE	1715	48903.00	44697.15	945.78	*IG
STORE	1716	48903.24	44688.42	945.32	*IG
STORE	1717	48903.96	44641.47	945.31	*IG
STORE	1718	48840.70	44702.30	946.75	*TR
STORE	1719	48842.76	44710.98	944.72	*TH
STORE	1720	49001.76	44626.65	945.97	*IG
STORE	1721	49003.67	44688.88	946.12	*IG
STORE	1722	49004.54	44696.36	946.71	*IG
STORE	1723	49005.06	44706.85	944.87	*IG
STORE	1724	49005.12	44711.12	945.10	*FO
STORE	1725	49004.61	44721.91	945.89	*RE
STORE	1726	49005.17	44736.82	946.15	*RC
STORE	1727	49004.77	44749.38	945.99	*RE
STORE	1728	49004.24	44768.20	944.78	*IG
STORE	1729	49004.37	44775.80	945.66	*IG

STORE	1730	49003.07	44845.95	945.54	*IG
STORE	1731	49102.52	44845.33	946.06	*IG
STORE	1732	49104.56	44774.59	946.40	*IG
STORE	1733	49104.44	44766.44	946.04	*IG
STORE	1734	49135.80	44770.75	946.88	*EP
STORE	1735	49104.04	44748.57	946.72	*RE
STORE	1736	49104.42	44736.48	946.83	*RC
STORE	1737	49103.99	44721.59	946.58	*RE
STORE	1738	49103.87	44710.52	945.69	*FO
STORE	1739	49103.50	44705.28	945.40	*IG
STORE	1740	49104.45	44694.50	947.02	*IG
STORE	1741	49104.60	44681.53	946.37	*IG
STORE	1742	49103.54	44628.59	946.47	*IG
STORE	1743	49203.41	44621.54	947.05	*IG
STORE	1744	49202.92	44678.05	946.87	*IG
STORE	1745	49203.80	44697.84	947.15	*IG
STORE	1746	49203.77	44705.57	945.99	*IG
STORE	1747	49204.13	44710.26	946.39	*FO
STORE	1748	49204.33	44720.70	947.21	*RE
STORE	1749	49204.86	44735.75	947.42	*RC
STORE	1750	49204.69	44748.44	947.33	*RE
STORE	1751	49204.27	44765.69	946.41	*IG
STORE	1752	49204.27	44773.36	946.94	*IG
STORE	1753	49205.48	44860.20	946.69	*IG
STORE	1754	49304.21	44858.96	947.05	*IG
STORE	1755	49304.25	44773.69	947.42	*IG
STORE	1756	49304.83	44764.70	946.79	*IG
STORE	1757	49304.89	44747.70	947.80	*RE
STORE	1758	49304.54	44733.66	947.80	*RC
STORE	1759	49304.30	44720.75	947.66	*RE
STORE	1760	49304.38	44710.67	947.04	*FO
STORE	1761	49304.36	44705.00	946.50	*IG
STORE	1762	49304.73	44695.63	947.84	*IG
STORE	1763	49304.74	44688.70	947.40	*IG
STORE	1764	49301.42	44614.42	947.45	*IG
STORE	1765	49400.23	44602.72	948.06	*IG
STORE	1766	49403.44	44677.44	947.87	*IG
STORE	1767	49404.10	44695.82	948.47	*IG
STORE	1768	49442.64	44696.12	949.28	*RG
STORE	1769	49405.41	44705.40	947.20	*IG
STORE	1770	49405.78	44710.41	947.56	*FO
STORE	1771	49405.06	44720.64	948.19	*RE
STORE	1772	49403.91	44734.15	948.25	*RC
STORE	1773	49403.66	44746.99	948.23	*RE
STORE	1774	49449.07	44763.16	947.82	*RG
STORE	1775	49405.40	44762.41	947.44	*IG
STORE	1776	49405.03	44772.81	947.82	*IG
STORE	1777	49405.50	44850.81	947.66	*IG
STORE	1778	49502.43	44851.17	948.04	*IG
STORE	1779	49503.65	44776.05	948.18	*IG
STORE	1780	49504.22	44769.64	949.11	*IG
STORE	1781	49504.43	44762.65	948.46	*IG
STORE	1782	49504.75	44746.84	948.82	*RE
STORE	1783	49504.83	44733.24	948.97	*RC
STORE	1784	49504.80	44720.23	948.90	*RE
STORE	1785	49505.21	44711.08	948.29	*FO
STORE	1786	49505.12	44704.39	947.77	*IG
STORE	1787	49505.12	44695.65	948.92	*IG
STORE	1788	49505.32	44689.60	948.45	*IG
STORE	1789	49503.99	44619.49	948.29	*IG
STORE	1790	49554.97	44696.85	948.23	*SM
STORE	1791	49544.00	44786.31	949.96	*BEG CONC TOP
STORE	1792	49541.49	44784.32	949.91	*BEG CONC TOP
STORE	1793	49539.30	44787.00	949.78	*BEG CONC TOP
STORE	1794	49541.63	44788.76	947.74	*IC
STORE	1795	49542.42	44788.80	947.76	*IC
STORE	1796	49542.37	44845.14	947.96	*IC
STORE	1797	49543.09	44845.22	947.96	*IC
STORE	1798	49545.37	44845.00	949.94	*TOP CONC
STORE	1799	49540.03	44845.07	949.93	*TOP CONC
STORE	1800	49576.32	44769.11	950.31	*EP
STORE	1801	49582.87	44774.25	949.84	*PT
STORE	1802	49601.67	44770.27	950.02	*END LP GAS TANK
STORE	1803	49609.66	44769.93	950.13	*END LP GAS TANK
STORE	1804	49606.99	44765.80	949.85	*IG TOP
STORE	1805	49606.80	44763.32	948.86	*INV. 12IN CMP
STORE	1806	49607.04	44761.59	949.76	*TOP IG
STORE	1807	49602.86	44761.31	949.38	*RG
STORE	1808	49644.92	44760.14	950.26	*TOP IG

STORE	1809	49645.02	44763.63	950.24	*TOP IG
STORE	1810	49645.03	44762.43	949.52	*INV. 12IN CMP
STORE	1811	49610.01	44842.58	949.38	*IG
STORE	1812	49607.32	44777.03	949.65	*IG
STORE	1813	49606.23	44746.72	949.62	*RE
STORE	1814	49605.80	44733.06	949.70	*RC
STORE	1815	49605.41	44720.13	949.68	*RE
STORE	1816	49605.41	44712.17	949.03	*FO
STORE	1817	49606.02	44705.31	948.21	*IG
STORE	1818	49605.36	44693.35	949.31	*IG
STORE	1819	49605.58	44681.90	948.82	*IG
STORE	1820	49610.07	44626.92	948.71	*IG
STORE	1821	49618.08	44677.81	948.87	*IG
STORE	1822	49619.25	44680.13	950.50	*TOP IG
STORE	1823	49620.37	44682.43	948.93	*F/L
STORE	1824	49621.67	44685.00	950.28	*TOP IG
STORE	1825	49670.26	44668.15	950.81	*IG
STORE	1826	49667.25	44662.39	951.83	*TOP IG
STORE	1827	49663.52	44657.06	948.92	*F/L
STORE	1828	49660.56	44652.16	951.02	*TOP IG
STORE	1829	49658.95	44649.78	949.32	*IG
STORE	1830	49704.24	44621.61	949.76	*IG
STORE	1831	49705.22	44623.12	950.98	*TOP IG
STORE	1832	49707.32	44626.09	948.81	*TOE
STORE	1833	49709.33	44628.62	948.86	*TOE
STORE	1834	49713.24	44634.11	952.39	*TOP IG
STORE	1835	49721.92	44644.91	951.64	*IG
STORE	1836	49761.57	44610.59	952.05	*IG
STORE	1837	49755.39	44602.21	952.59	*TOP IG
STORE	1838	49752.07	44598.60	950.17	*TOE
STORE	1839	49749.93	44596.06	950.16	*TOE
STORE	1840	49748.21	44593.77	951.60	*TOP IG
STORE	1841	49747.02	44592.25	949.94	*IG
STORE	1842	49704.62	44611.02	949.42	*IG
STORE	1843	49704.20	44622.02	949.88	*IG
STORE	1844	49704.02	44623.87	951.00	*TOP IG
STORE	1845	49704.20	44627.96	949.05	*TOE
STORE	1846	49704.94	44632.07	948.95	*TOE
STORE	1847	49705.63	44689.56	950.56	*IG
STORE	1848	49706.51	44704.64	948.82	*IG
STORE	1849	49706.37	44711.73	949.90	*FO
STORE	1850	49706.10	44719.50	950.38	*RE
STORE	1851	49705.55	44733.16	950.46	*RC
STORE	1852	49705.13	44747.02	950.34	*RE
STORE	1853	49706.01	44762.11	949.71	*IG
STORE	1854	49706.56	44776.05	950.95	*IG
STORE	1855	49706.67	44809.24	950.64	*FL 4FT CL
STORE	1856	49708.66	44812.70	950.06	*BC
STORE	1857	49695.51	44808.61	950.54	*EP
STORE	1858	49687.10	44799.69	951.00	*TT
STORE	1859	49672.44	44799.18	950.37	*TT
STORE	1860	49668.23	44812.28	949.96	*BC
STORE	1861	49668.47	44809.08	950.48	*FA 4FT HI CL
STORE	1862	49661.47	44793.78	950.40	*FA 4FT HI CL
STORE	1863	49643.50	44793.40	950.59	*FA 4FT HI CL
STORE	1864	49643.07	44828.73	950.23	*FL
STORE	1865	49667.95	44838.65	950.31	*BC
STORE	1866	49726.26	44810.05	950.85	*FA
STORE	1867	49721.33	44806.92	950.57	*WATER STAND PIPE
STORE	1868	49736.83	44764.06	950.44	*TOP IG
STORE	1869	49736.82	44759.75	950.44	*TOP IG
STORE	1870	49736.80	44760.85	949.62	*INV. 12IN CMP
STORE	1871	49734.09	44759.33	949.92	*RG
STORE	1872	49816.07	44762.89	951.42	*TOP IG
STORE	1873	49816.12	44759.03	951.47	*TOP IG
STORE	1874	49816.32	44760.92	950.65	*INV. 12IN CMP
STORE	1875	49813.81	44763.45	951.53	*BV
STORE	1876	49812.47	44763.36	951.45	*BV
STORE	1877	49809.63	44763.32	951.46	*BV
STORE	1878	49811.00	44767.13	953.80	*TR
STORE	1879	49811.03	44767.95	951.02	*EP
STORE	1880	49812.02	44768.29	951.10	*FC 5FT BLK
STORE	1881	49812.93	44831.66	950.99	*FL
STORE	1882	49819.47	44833.33	952.21	*BC
STORE	1883	49810.05	44822.71	950.97	*IG
STORE	1884	49808.31	44766.63	951.06	*IG
STORE	1885	49808.09	44759.20	951.44	*IG
STORE	1886	49807.87	44745.64	951.21	*RE
STORE	1887	49806.96	44733.31	951.35	*RC

STORE	1888	49806.56	44719.34	951.10	*RE
STORE	1889	49807.14	44711.58	950.54	*FO
STORE	1890	49807.79	44705.92	949.45	*IG
STORE	1891	49807.59	44694.73	951.21	*IG
STORE	1892	49830.57	44688.24	951.73	*EP
STORE	1893	49755.18	44687.31	950.65	*EDGE TREE CLUSTR
STORE	1894	49734.59	44636.45	951.84	*EDGE TREE CLUSTR
STORE	1895	49857.66	44565.35	952.01	*EDGE TREE CLUSTR
STORE	1896	49880.28	44598.74	952.08	*EDGE TREE CLUSTR
STORE	1897	49867.41	44662.67	951.82	*TR
STORE	1898	49823.98	44765.77	951.45	*PT
STORE	1899	49867.77	44766.07	952.32	*PT
STORE	1900	49866.50	44830.51	951.17	*FC
STORE	1901	49885.05	44831.18	950.62	*FC
STORE	1902	49879.84	44832.99	950.61	*BC
STORE	1903	49899.55	44796.20	951.72	*FC 7FTHI CHAINLK
STORE	1904	49912.89	44795.98	952.39	*FC 7FTHI CHAINLK
STORE	1905	49913.44	44778.51	952.63	*FC 7FTHI CHAINLK
STORE	1906	49899.23	44779.09	952.50	*FC 7FTHI CHAINLK
STORE	1907	49904.33	44772.75	952.52	*EP
STORE	1908	49904.38	44765.47	952.39	*EP
STORE	1909	49901.82	44758.02	952.70	*REUSE AIR VALVE
STORE	1910	49897.17	44760.74	952.41	*WV
STORE	1911	49897.18	44760.74	946.88	*WV T.O.N.
STORE	1912	49897.11	44755.75	946.89	*WV T.O.N.
STORE	1913	49907.29	44756.45	946.30	*WV T.O.N.
STORE	1914	49907.13	44756.35	952.37	*WV
STORE	1915	49897.12	44755.72	952.28	*WV
STORE	1916	49890.46	44688.13	952.35	*TR
STORE	1917	49903.76	44618.35	952.29	*IG
STORE	1918	49904.86	44680.68	951.74	*TOP IG
STORE	1919	49917.77	44680.80	952.49	*TOP IG
STORE	1920	49912.11	44704.60	951.73	*TOP IG RG
STORE	1921	49898.60	44709.87	951.06	*TOP IG
STORE	1922	49900.11	44696.66	951.59	*TOP IG
STORE	1923	49901.67	44702.93	950.23	*F/L
STORE	1924	49908.85	44687.36	950.10	*F/L
STORE	1925	49915.87	44685.96	948.96	*INV. 24IN CMP
STORE	1926	49935.88	44677.79	952.91	*RE PC
STORE	1927	49932.17	44699.94	952.58	*RE MOC
STORE	1928	49906.81	44720.01	952.24	*RE PT
STORE	1929	49907.14	44731.96	952.31	*RC
STORE	1930	49907.21	44745.83	952.13	*RE
STORE	1931	49907.81	44753.72	951.70	*F/L
STORE	1932	49907.65	44754.90	952.07	*IG
STORE	1933	49907.05	44772.70	952.70	*IG
STORE	1934	49908.30	44811.16	950.77	*IG
STORE	1935	49908.49	44843.19	950.84	*IG
STORE	1936	49916.13	44843.78	952.09	*TOP CONC
STORE	1937	49918.33	44843.74	950.14	*IC
STORE	1938	49919.27	44843.81	950.14	*IC
STORE	1939	49920.84	44843.57	951.98	*TOP CONC
STORE	1940	49922.21	44805.67	952.53	*TOP CONC
STORE	1941	49926.04	44795.11	952.95	*IG
STORE	1942	49933.63	44791.56	952.82	*IG
STORE	1943	49933.91	44788.02	950.39	*INV 18INCONCPIPE
STORE	1944	49934.39	44783.60	952.58	*TOP IG
STORE	1945	49913.96	44780.68	952.88	*TOP IG
STORE	1946	49915.36	44806.94	952.43	*TOP CONC
STORE	1947	49918.16	44806.82	950.27	*IC
STORE	1948	49919.25	44806.96	950.31	*IC
STORE	1949	49917.96	44783.87	950.76	*IC
STORE	1950	49923.92	44793.27	950.66	*IC
STORE	1951	49918.62	44762.11	952.65	*TOP IG
STORE	1952	49918.45	44760.28	951.57	*INV. 12IN CMP
STORE	1953	49918.74	44759.43	952.47	*TOP IG
STORE	1954	49978.38	44761.47	952.72	*TOP IG
STORE	1955	49977.71	44759.01	951.26	*INV. 12IN CMP
STORE	1956	49977.84	44756.75	952.70	*TOP IG
STORE	1957	49967.40	44787.72	953.51	*TOP CONC
STORE	1958	49967.60	44790.01	950.23	*INV 18INCONCPIPE
STORE	1959	49967.18	44792.63	953.50	*TOP CONC
STORE	1960	50005.14	44763.34	953.00	*EP
STORE	1961	50010.30	44709.95	953.30	*RG
STORE	1962	50005.55	44717.66	953.00	*RE PC
STORE	1963	49977.82	44705.78	952.76	*RE MOC
STORE	1964	49961.13	44678.02	952.82	*RE PC
STORE	1965	49975.55	44682.35	952.47	*TOP IG
STORE	1966	49975.89	44685.73	950.18	*INV. 18IN CMP

STORE	1967	49974.59	44687.69	952.42	*TOP IG
STORE	1968	49988.67	44703.39	952.61	*TOP IG
STORE	1969	50005.68	44708.40	952.84	*TOP IG
STORE	1970	50006.23	44699.76	952.90	*TOP IG
STORE	1971	49992.43	44696.10	953.02	*TOP IG
STORE	1972	49987.94	44682.98	952.73	*TOP IG
STORE	1973	49984.04	44682.82	950.79	*TOE
STORE	1974	49978.82	44683.04	950.70	*TOE
STORE	1975	49990.40	44696.99	951.41	*TOE
STORE	1976	49989.48	44701.43	951.02	*TOE
STORE	1977	50006.15	44705.04	951.45	*TOE
STORE	1978	50006.42	44702.01	951.10	*TOE
STORE	1979	49993.92	44694.79	953.18	*SM
STORE	1980	50002.97	44674.49	949.21	*WV T.O.N.
STORE	1981	50002.79	44670.94	951.82	*WV T.O.N.
STORE	1982	50017.95	44674.98	947.96	*WV T.O.N.
STORE	1983	50023.94	44675.90	956.97	*WF
STORE	1984	50059.65	44613.95	953.27	*IG
STORE	1985	50056.71	44690.92	953.98	*IG
STORE	1986	50056.93	44700.76	952.06	*IG
STORE	1987	50056.86	44705.95	952.73	*FO
STORE	1988	50057.19	44716.45	953.30	*RE
STORE	1989	50057.65	44729.02	953.28	*RC
STORE	1990	50057.48	44743.66	953.13	*RE
STORE	1991	50056.81	44757.84	952.27	*IG
STORE	1992	50056.97	44768.35	953.92	*TOP CONC
STORE	1993	50057.09	44770.64	951.86	*IC
STORE	1994	50057.08	44771.66	951.83	*IC
STORE	1995	50057.23	44773.79	953.74	*TOP CONC
STORE	1996	50056.93	44776.80	952.80	*IG
STORE	1997	50061.38	44833.55	952.52	*IG
STORE	1998	50161.11	44838.72	952.93	*IG
STORE	1999	50159.68	44772.58	953.58	*IG
STORE	2000	50159.91	44771.04	954.42	*TOP CONC
STORE	2001	50159.99	44768.99	952.44	*IC
STORE	2002	50159.97	44768.01	952.44	*IC
STORE	2003	50160.11	44766.01	954.48	*TOP CONC
STORE	2004	50159.78	44755.31	952.66	*IG
STORE	2005	50158.11	44740.47	953.49	*RE
STORE	2006	50158.56	44726.79	953.80	*RC
STORE	2007	50158.08	44715.21	953.77	*RE
STORE	2008	50157.90	44704.09	953.45	*FO
STORE	2009	50158.42	44698.03	952.78	*IG
STORE	2010	50157.90	44688.84	954.44	*IG
STORE	2011	50157.94	44665.15	953.78	*IG
STORE	2012	50156.88	44601.90	953.71	*IG
STORE	2013	50255.72	44611.05	954.05	*IG
STORE	2014	50257.53	44687.36	954.87	*IG
STORE	2015	50257.64	44694.88	953.38	*IG
STORE	2016	50258.10	44702.38	953.84	*FO
STORE	2017	50257.94	44711.37	954.14	*RE
STORE	2018	50257.36	44724.48	954.21	*RC
STORE	2019	50258.36	44738.67	953.92	*RE
STORE	2020	50258.29	44753.10	953.67	*IG
STORE	2021	50258.53	44763.58	955.04	*TOP CONC
STORE	2022	50258.15	44765.71	953.03	*IC
STORE	2023	50258.20	44766.65	953.04	*IC
STORE	2024	50258.28	44768.84	955.05	*TOP CONC
STORE	2025	50256.85	44831.34	953.48	*IG
STORE	2026	50296.58	44760.86	955.41	*TR
STORE	2027	50354.40	44618.53	954.54	*IG
STORE	2028	50358.91	44685.55	955.21	*IG
STORE	2029	50358.02	44692.09	954.08	*IG
STORE	2030	50357.55	44701.03	954.18	*FO
STORE	2031	50358.05	44709.42	954.41	*RE
STORE	2032	50358.17	44722.17	954.31	*RC
STORE	2033	50447.56	44692.17	955.59	*RE
STORE	2034	50356.82	44749.93	954.04	*IG
STORE	2035	50356.86	44761.45	955.63	*TOP CONC
STORE	2036	50357.11	44763.57	953.61	*IC
STORE	2037	50356.93	44764.58	953.60	*IC
STORE	2038	50356.97	44766.85	955.58	*TOP CONC
STORE	2039	50358.29	44832.55	953.98	*IG
STORE	2040	50431.16	44755.76	955.83	*EP
STORE	2041	50456.66	44830.04	954.83	*IG
STORE	2042	50456.55	44769.79	955.15	*IG
STORE	2043	50457.42	44764.59	956.21	*TOP CONC
STORE	2044	50457.72	44762.52	954.21	*IC
STORE	2045	50457.68	44761.50	954.21	*IC

STORE	2046	50457.34	44759.39	956.20	*TOP CONC
STORE	2047	50457.22	44748.66	954.71	*IG
STORE	2048	50458.82	44733.96	954.82	*RE
STORE	2049	50458.90	44719.22	954.84	*RC
STORE	2050	50458.99	44707.06	954.86	*RE
STORE	2051	50459.68	44696.22	954.28	*FO
STORE	2052	50459.41	44692.43	954.42	*IG
STORE	2053	50447.57	44691.90	954.94	*RG
STORE	2054	50457.69	44683.90	955.54	*IG
STORE	2055	50453.83	44619.16	955.14	*IG
STORE	2056	50552.97	44617.12	955.50	*IG
STORE	2057	50557.62	44681.27	955.99	*IG
STORE	2058	50558.22	44688.46	954.79	*IG
STORE	2059	50558.12	44694.43	954.98	*FO
STORE	2060	50558.20	44703.89	955.33	*RE
STORE	2061	50558.28	44717.56	955.37	*RC
STORE	2062	50558.71	44731.05	955.44	*RE
STORE	2063	50558.74	44746.74	955.11	*IG
STORE	2064	50559.17	44757.18	956.82	*TOP CONC
STORE	2065	50559.43	44759.22	954.83	*IC
STORE	2066	50559.54	44760.24	954.82	*IC
STORE	2067	50560.03	44762.42	956.82	*TOP CONC
STORE	2068	50559.98	44767.45	955.75	*IG
STORE	2069	50560.41	44830.76	955.18	*IG
STORE	2070	50670.13	44833.16	955.65	*IG
STORE	2071	50663.60	44765.58	955.02	*IG
STORE	2072	50663.49	44760.36	957.08	*TOP CONC
STORE	2073	50663.59	44758.05	955.09	*IC
STORE	2074	50663.46	44757.04	955.09	*IC
STORE	2075	50663.52	44754.94	957.10	*TOP CONC
STORE	2076	50663.49	44743.81	955.58	*IG
STORE	2077	50661.77	44728.78	955.95	*RE
STORE	2078	50660.50	44715.45	956.05	*RC
STORE	2079	50659.89	44701.82	955.79	*RE
STORE	2080	50659.91	44692.75	955.35	*FO
STORE	2081	50660.81	44685.97	955.21	*IG
STORE	2082	50661.29	44679.90	956.28	*IG
STORE	2083	50679.81	44682.77	956.33	*TR
STORE	2084	50653.78	44609.00	956.09	*IG
STORE	2085	50758.60	44605.56	956.41	*IG
STORE	2086	50759.71	44674.93	956.93	*IG
STORE	2087	50759.67	44683.41	955.48	*IG
STORE	2088	50760.24	44691.96	955.87	*FO
STORE	2089	50760.28	44699.77	956.32	*RE
STORE	2090	50760.59	44712.96	956.63	*RC
STORE	2091	50760.69	44726.47	956.55	*RE
STORE	2092	50761.38	44741.26	955.79	*IG
STORE	2093	50761.84	44752.93	957.33	*TOP CONC
STORE	2094	50761.75	44755.02	955.32	*IC
STORE	2095	50761.69	44756.00	955.35	*IC
STORE	2096	50762.04	44758.16	957.34	*TOP CONC
STORE	2097	50762.11	44761.05	956.71	*IG
STORE	2098	50761.77	44823.72	955.79	*IG
STORE	2099	50851.09	44747.44	957.86	*EP
STORE	2100	50861.16	44823.02	956.47	*IG
STORE	2101	50859.84	44758.82	957.07	*IG
STORE	2102	50859.19	44756.09	957.71	*TOP CONC
STORE	2103	50859.21	44753.90	955.61	*IC
STORE	2104	50859.26	44752.95	955.62	*IC
STORE	2105	50859.11	44750.80	957.66	*TOP CONC
STORE	2106	50859.21	44738.48	956.52	*IG
STORE	2107	50859.01	44723.66	957.03	*RE
STORE	2108	50859.46	44710.79	957.14	*RC
STORE	2109	50859.51	44697.38	956.91	*RE
STORE	2110	50859.61	44689.97	956.33	*FO
STORE	2111	50858.81	44682.42	955.92	*IG
STORE	2112	50858.62	44674.92	957.25	*IG
STORE	2113	50855.86	44612.54	956.96	*IG
STORE	2114	50959.64	44610.70	957.36	*IG
STORE	2115	50959.34	44679.85	956.07	*IG
STORE	2116	50959.13	44686.52	956.70	*FO
STORE	2117	50959.56	44695.48	957.37	*RE
STORE	2118	50959.39	44708.68	957.46	*RC
STORE	2119	50959.88	44721.01	957.42	*RE
STORE	2120	50959.88	44736.12	956.83	*IG
STORE	2121	50960.48	44748.53	957.95	*TOP CONC
STORE	2122	50960.83	44750.66	955.95	*IC
STORE	2123	50960.90	44751.68	955.94	*IC
STORE	2124	50961.07	44753.90	957.95	*TOP CONC

STORE	2125	50961.35	44758.45	957.09	*IG
STORE	2126	50963.18	44821.47	956.52	*IG
STORE	2127	51062.94	44818.71	956.67	*IG
STORE	2128	51059.94	44755.14	956.52	*IG
STORE	2129	51060.66	44751.67	958.25	*TOP CONC
STORE	2130	51060.77	44749.55	956.23	*IC
STORE	2131	51060.79	44748.49	956.23	*IC
STORE	2132	51060.81	44746.33	958.19	*TOP CONC
STORE	2133	51060.65	44736.10	957.33	*IG
STORE	2134	51060.96	44719.09	957.82	*RE
STORE	2135	51060.80	44706.52	957.87	*RC
STORE	2136	51060.03	44692.46	957.60	*RE
STORE	2137	51059.81	44683.55	957.05	*FO
STORE	2138	51060.00	44677.24	956.83	*IG
STORE	2139	51060.07	44671.42	958.08	*IG
STORE	2140	51056.55	44606.14	957.83	*IG
STORE	2141	51156.62	44604.11	957.92	*IG
STORE	2142	51159.36	44669.98	958.23	*IG
STORE	2143	51159.91	44675.72	957.33	*IG
STORE	2144	51159.57	44680.62	957.37	*FO
STORE	2145	51160.46	44691.07	957.93	*RE
STORE	2146	51160.74	44704.13	958.16	*RC
STORE	2147	51161.26	44716.94	958.09	*RE
STORE	2148	51161.37	44731.72	957.69	*RE
STORE	2149	51157.28	44733.88	957.86	*RG
STORE	2150	51163.87	44743.97	958.56	*TOP CONC
STORE	2151	51163.94	44746.17	956.56	*IC
STORE	2152	51163.98	44747.17	956.57	*IC
STORE	2153	51163.97	44749.42	958.55	*TOP CONC
STORE	2154	51163.49	44752.81	958.21	*IG
STORE	2155	51162.70	44816.66	956.95	*IG
STORE	2156	51187.13	44739.77	957.98	*BV
STORE	2157	51240.61	44728.17	958.06	*RG
STORE	2158	51246.14	44725.19	958.71	*TOP IG
STORE	2159	51246.30	44727.47	958.70	*TOP IG
STORE	2160	51245.94	44726.32	957.70	*INV 12IN CMP
STORE	2161	51266.36	44726.08	957.97	*INV 12IN CMP
STORE	2162	51265.50	44725.41	958.84	*TOP IG
STORE	2163	51265.70	44727.07	958.90	*TOP IG
STORE	2164	51265.51	44734.31	956.31	*INV 24IN CMP
STORE	2165	51265.38	44738.27	959.37	*IG
STORE	2166	51247.88	44740.54	959.02	*IG
STORE	2167	51249.42	44746.55	958.97	*IG
STORE	2168	51247.59	44743.49	956.63	*INV 24IN CMP
STORE	2169	51274.80	44743.14	959.07	*FC 4FT CHAIN LK
STORE	2170	51281.59	44727.17	958.91	*EP
STORE	2171	51283.29	44726.92	958.85	*TR
STORE	2172	51260.70	44714.60	958.58	*RE
STORE	2173	51260.11	44701.57	958.32	*RC
STORE	2174	51260.39	44688.29	958.10	*RE
STORE	2175	51260.62	44679.15	957.65	*FO
STORE	2176	51261.17	44673.63	957.77	*IG
STORE	2177	51262.14	44663.94	958.79	*IG
STORE	2178	51263.83	44600.91	958.37	*IG
STORE	2179	51364.05	44595.53	958.59	*IG
STORE	2180	51363.49	44663.69	959.10	*IG
STORE	2181	51362.37	44670.94	958.12	*IG
STORE	2182	51361.68	44674.98	958.09	*FO
STORE	2183	51361.61	44684.72	958.42	*RE
STORE	2184	51362.36	44699.63	958.59	*RC
STORE	2185	51362.45	44712.36	958.64	*RE
STORE	2186	51362.92	44720.38	958.67	*IG
STORE	2187	51361.25	44726.46	959.28	*TOP CONC
STORE	2188	51361.29	44731.91	958.67	*TOP CONC
STORE	2189	51361.05	44729.51	956.85	*INV 24INCONCPIPE
STORE	2190	51364.16	44741.43	959.25	*FL
STORE	2191	51370.03	44741.50	959.22	*FC
STORE	2192	51379.81	44732.32	959.37	*TOP CONC
STORE	2193	51381.74	44730.59	957.74	*IC
STORE	2194	51382.73	44729.60	957.67	*IC
STORE	2195	51384.79	44727.73	959.29	*TOP CONC
STORE	2196	51385.41	44738.77	959.79	*TOP CONC
STORE	2197	51383.79	44740.61	957.91	*IC
STORE	2198	51382.51	44741.70	957.91	*IC
STORE	2199	51380.89	44743.37	959.75	*TOP CONC
STORE	2200	51369.97	44801.62	958.84	*FC 4FT CHLK
STORE	2201	51462.63	44821.08	958.06	*IG
STORE	2202	51463.74	44748.43	957.82	*IG
STORE	2203	51463.80	44743.13	959.97	*TOP CONC

STORE	2204	51463.65	44740.92	957.97	*IC
STORE	2205	51463.66	44739.91	957.96	*IC
STORE	2206	51464.02	44737.82	959.96	*TOP CONC
STORE	2207	51464.23	44722.53	958.95	*IG
STORE	2208	51463.42	44711.55	958.96	*RE
STORE	2209	51462.45	44697.20	959.17	*RC
STORE	2210	51462.34	44683.22	958.92	*RE
STORE	2211	51460.15	44670.26	958.28	*FO
STORE	2212	51460.66	44668.15	958.47	*IG
STORE	2213	51459.93	44661.54	959.44	*IG
STORE	2214	51458.48	44595.17	959.76	*IG
STORE	2215	50060.00	44526.20	953.45	*IG
STORE	2216	49987.01	44526.63	953.83	*IG
STORE	2217	49977.73	44527.92	952.62	*IG
STORE	2218	49960.72	44529.25	953.02	*RE
STORE	2219	49949.61	44529.93	953.07	*RC
STORE	2220	49936.48	44529.48	953.03	*RE
STORE	2221	49922.02	44530.07	952.26	*IG
STORE	2222	49918.64	44529.57	952.48	*IG
STORE	2223	49857.91	44529.82	951.91	*IG
STORE	2224	49854.03	44528.88	952.43	*TOP CONC.
STORE	2225	49846.57	44527.81	952.53	*TOP CONC.
STORE	2226	49850.02	44528.17	950.72	*IC
STORE	2227	49851.87	44528.06	950.68	*IC
STORE	2228	49843.65	44527.51	950.82	*IG
STORE	2229	49808.83	44527.84	950.24	*IG
STORE	2230	49806.66	44555.76	952.10	*TOP CONC.
STORE	2231	49809.95	44560.06	951.91	*TOP CONC.
STORE	2232	49881.63	44509.27	952.44	*TOP CONC.
STORE	2233	49878.78	44505.36	952.54	*TOP CONC.
STORE	2234	49901.06	44484.36	952.61	*TOP CONC.
STORE	2235	49905.15	44486.89	952.69	*TOP CONC.
STORE	2236	49903.55	44485.80	950.85	*IC
STORE	2237	49902.63	44485.29	950.82	*IC
STORE	2238	49877.99	44508.24	950.69	*IC
STORE	2239	49878.47	44509.07	950.66	*IC
STORE	2240	49809.52	44557.50	950.21	*IC
STORE	2241	49809.23	44556.82	950.24	*IC
STORE	2242	49877.19	44632.52	952.12	*IG
STORE	2243	49913.13	44631.51	951.93	*IG
STORE	2244	49937.14	44629.87	952.94	*RE
STORE	2245	49949.17	44630.38	952.88	*RC
STORE	2246	49960.85	44629.22	952.80	*RE
STORE	2247	49977.86	44629.56	952.12	*IG
STORE	2248	49989.45	44629.77	953.45	*IG
STORE	2249	50065.75	44628.99	953.69	*IG
STORE	2250	50070.27	44426.51	953.37	*IG
STORE	2251	49989.56	44427.58	953.87	*IG
STORE	2252	49977.69	44427.79	952.51	*IG
STORE	2253	49961.21	44428.91	953.27	*RE
STORE	2254	49949.32	44429.50	953.40	*RC
STORE	2255	49935.56	44429.88	953.44	*RE
STORE	2256	49921.44	44429.30	952.77	*IG
STORE	2257	49918.57	44429.07	953.34	*IG
STORE	2258	49916.13	44429.02	952.85	*TOP CONC.
STORE	2259	49911.22	44428.72	952.80	*TOP CONC.
STORE	2260	49913.21	44428.71	951.00	*IC
STORE	2261	49914.12	44428.73	951.02	*IC
STORE	2262	49908.89	44428.92	950.95	*IG
STORE	2263	49843.96	44438.09	950.49	*IG
STORE	2264	49838.88	44336.90	950.84	*IG
STORE	2265	49908.27	44331.97	951.59	*IG
STORE	2266	49910.72	44331.10	953.12	*TOP CONC.
STORE	2267	49915.65	44331.05	953.21	*TOP CONC.
STORE	2268	49913.62	44331.05	951.34	*IC
STORE	2269	49912.74	44331.01	951.33	*IC
STORE	2270	49922.00	44329.73	952.86	*IG
STORE	2271	49935.50	44329.91	953.45	*RE
STORE	2272	49948.89	44330.34	953.43	*RC
STORE	2273	49961.13	44329.68	953.34	*RE
STORE	2274	49976.74	44329.78	952.72	*IG
STORE	2275	49989.46	44330.33	953.97	*IG
STORE	2276	50064.67	44328.54	953.58	*IG
STORE	2277	49993.04	44390.29	953.02	*SM
STORE	2278	50073.45	44232.07	953.84	*IG
STORE	2279	49988.76	44230.35	954.39	*IG
STORE	2280	49975.60	44230.23	952.93	*IG
STORE	2281	49961.22	44230.53	953.47	*RE
STORE	2282	49933.67	44230.47	953.59	*RE

STORE	2283	49920.98	44230.31	952.92	*IG
STORE	2284	49915.42	44230.20	953.30	*TOP CONC.
STORE	2285	49910.10	44230.72	953.27	*TOP CONC.
STORE	2286	49912.14	44230.79	951.54	*IC
STORE	2287	49913.01	44230.79	951.57	*IC
STORE	2288	49906.78	44231.26	951.87	*IG
STORE	2289	49854.20	44233.33	951.27	*IG
STORE	2290	49848.97	44128.21	951.28	*IG
STORE	2291	49905.44	44129.92	952.14	*IG
STORE	2292	49909.65	44129.95	953.65	*TOP CONC.
STORE	2293	49914.43	44130.03	953.70	*TOP CONC.
STORE	2294	49912.45	44129.52	951.89	*IC
STORE	2295	49911.75	44129.40	951.86	*IC
STORE	2296	49922.87	44131.43	954.44	*IG
STORE	2297	49926.22	44130.85	954.02	*IG
STORE	2298	49933.88	44130.27	954.11	*RE
STORE	2299	49945.40	44130.42	954.07	*RC
STORE	2300	49957.14	44129.83	953.92	*RE
STORE	2301	49973.22	44128.62	953.24	*IG
STORE	2302	49988.38	44127.08	954.21	*IG
STORE	2303	50050.16	44126.15	954.68	*IG
STORE	2304	49971.11	44150.51	953.48	*RG
STORE	2305	49922.37	44158.12	953.77	*RG
STORE	2307	49990.62	44082.05	954.12	*SM
STORE	2308	50005.07	44088.09	954.86	*TOP IG
STORE	2309	50005.35	44084.34	952.97	*TOP CONC
STORE	2310	50005.96	44081.66	951.08	*IC
STORE	2311	50006.19	44080.54	951.07	*IC
STORE	2312	50006.58	44078.02	952.96	*TOP CONC
STORE	2313	50007.23	44074.76	954.07	*TOP IG
STORE	2314	50006.99	44069.18	953.81	*FL 6FT CONC BLK
STORE	2315	49984.24	44069.73	952.78	*FA
STORE	2316	49974.27	44074.83	954.50	*IH
STORE	2317	49974.21	44066.41	954.46	*IH
STORE	2318	49975.18	44070.82	949.98	*INV 30INCONCPIPE
STORE	2319	49920.33	44071.75	949.84	*INV 30INCONCPIPE
STORE	2320	49921.30	44066.79	954.42	*IH
STORE	2321	49921.61	44077.42	954.26	*IH
STORE	2322	49899.80	44068.27	954.30	*IH
STORE	2323	49899.64	44075.04	954.36	*IH
STORE	2324	49901.67	44072.11	949.68	*INV 24INCONCPIPE
STORE	2325	49881.69	44072.58	949.54	*INV 24INCONCPIPE
STORE	2326	49883.17	44077.27	953.22	*BEG TOP CONC
STORE	2327	49952.38	44230.71	1124.10	*BEG TOP CONC
STORE	2328	49877.04	44075.65	950.43	*BEG IC
STORE	2329	49880.20	44076.84	950.96	*BEG IC
STORE	2330	49830.87	44033.93	951.17	*IG
STORE	2331	49875.56	44034.43	951.78	*IG
STORE	2332	49878.60	44034.40	953.35	*TOP CONC
STORE	2333	49883.66	44034.18	953.26	*TOP CONC
STORE	2334	49881.86	44034.23	951.82	*IC
STORE	2335	49880.51	44034.69	951.80	*IC
STORE	2336	49886.85	44034.71	953.58	*TOP IG
STORE	2337	49888.77	44034.63	952.93	*TOE
STORE	2338	49900.99	44032.78	952.93	*IG
STORE	2339	49905.01	44032.43	953.93	*TOP IG
STORE	2340	49908.24	44031.51	952.58	*TOP CONC
STORE	2341	49910.90	44031.26	950.45	*IC
STORE	2342	49912.20	44031.03	950.44	*IC
STORE	2343	49914.82	44031.15	952.54	*TOP CONC
STORE	2344	49919.94	44031.27	954.88	*TOP
STORE	2345	49922.45	44030.88	953.93	*IG
STORE	2346	49932.12	44030.44	954.19	*RE
STORE	2347	49943.92	44030.02	954.18	*RC
STORE	2348	49957.53	44029.91	953.92	*RE
STORE	2349	49984.01	44030.23	953.83	*FL
STORE	2350	49983.12	43926.99	954.64	*FL IG
STORE	2351	49973.89	43927.17	952.47	*TOE
STORE	2352	49959.13	43928.44	953.04	*RE
STORE	2353	49943.52	43929.61	953.38	*RC
STORE	2354	49930.00	43930.05	953.41	*RE
STORE	2355	49918.62	43930.28	953.03	*IG
STORE	2356	49916.55	43930.49	953.58	*TOP IG
STORE	2357	49914.01	43930.07	952.44	*TOP CONC
STORE	2358	49911.32	43930.32	950.28	*IC
STORE	2359	49910.30	43930.27	950.28	*IC
STORE	2360	49907.48	43931.01	952.46	*TOP CONC
STORE	2361	49904.69	43930.90	953.16	*TOP IG
STORE	2362	49902.22	43930.95	951.84	*TOE

STORE	2363	49887.68	43930.55	951.88	*TOE
STORE	2364	49883.43	43930.65	953.33	*TOP CONC
STORE	2365	49881.72	43930.97	951.66	*IC
STORE	2366	49880.48	43930.89	951.66	*IC
STORE	2367	49878.41	43930.92	953.27	*TOP CONC
STORE	2368	49874.38	43931.10	951.55	*TOE
STORE	2369	49830.81	43933.72	951.02	*IG
STORE	2370	49830.67	43830.85	950.93	*IG
STORE	2371	49874.22	43832.70	951.33	*IG
STORE	2372	49877.79	43832.35	953.19	*TOP CONC
STORE	2373	49879.68	43832.54	951.46	*IC
STORE	2374	49881.13	43832.73	951.55	*IC
STORE	2375	49882.76	43832.84	953.20	*TOP CONC
STORE	2376	49884.80	43833.17	952.99	*TOP IG
STORE	2377	49887.81	43833.15	951.79	*TOE
STORE	2378	49902.00	43831.49	951.85	*TOE
STORE	2379	49904.46	43831.29	953.06	*TOP IG
STORE	2380	49906.66	43831.04	952.40	*TOP CONC
STORE	2381	49909.51	43830.93	950.19	*TOE
STORE	2382	49910.45	43831.14	950.20	*TOE
STORE	2383	49913.46	43831.08	952.37	*TOP CONC
STORE	2384	49916.19	43830.90	953.72	*TOP IG
STORE	2385	49917.87	43830.62	952.99	*IG
STORE	2386	49928.95	43829.54	953.11	*RE
STORE	2387	49943.19	43829.26	953.00	*RC
STORE	2388	49957.50	43828.80	952.79	*RE
STORE	2389	49972.73	43828.26	952.20	*TOE
STORE	2390	49982.21	43827.74	954.33	*FL IG
STORE	2391	49981.05	43729.53	954.56	*FL IG
STORE	2392	49969.85	43730.22	951.95	*TOE
STORE	2393	49956.25	43729.47	952.66	*RE
STORE	2394	49928.83	43729.53	952.82	*RE
STORE	2395	49916.88	43729.23	952.81	*IG
STORE	2396	49915.37	43729.70	953.51	*TOP IG
STORE	2397	49912.68	43729.98	952.28	*TOP CONC
STORE	2398	49909.92	43730.07	950.13	*IC
STORE	2399	49908.83	43730.13	950.14	*IC
STORE	2400	49905.98	43730.33	952.31	*TOP CONC
STORE	2401	49904.40	43730.40	952.99	*TOP IG
STORE	2402	49902.30	43730.45	951.75	*TOE
STORE	2403	49887.21	43731.40	951.69	*IG
STORE	2404	49883.86	43731.47	953.46	*TOP IG
STORE	2405	49882.51	43731.57	953.02	*TOP CONC
STORE	2406	49880.30	43731.66	951.46	*IC
STORE	2407	49879.04	43731.68	951.32	*IC
STORE	2408	49877.15	43731.65	953.04	*TOP CONC
STORE	2409	49872.93	43731.89	951.15	*TOE
STORE	2410	49828.61	43729.81	950.97	*IG
STORE	2411	49828.76	43629.35	950.76	*IG
STORE	2412	49872.26	43629.20	951.17	*TOE
STORE	2413	49876.28	43629.31	953.00	*TOP CONC
STORE	2414	49877.94	43629.23	951.46	*IC
STORE	2415	49879.37	43629.13	951.33	*IC
STORE	2416	49881.22	43629.19	953.04	*TOP CONC
STORE	2417	49883.53	43629.06	953.23	*TOP IG
STORE	2418	49886.57	43628.83	951.47	*TOE
STORE	2419	49900.96	43629.25	951.58	*TOE
STORE	2420	49903.33	43629.29	952.83	*TOP IG
STORE	2421	49905.39	43629.06	952.17	*TOP CONC
STORE	2422	49907.53	43628.89	949.97	*IC
STORE	2423	49909.13	43628.88	949.97	*IC
STORE	2424	49911.98	43628.94	952.13	*TOP CONC
STORE	2425	49914.25	43629.21	953.23	*TOP IG
STORE	2426	49915.54	43629.01	952.59	*IG
STORE	2427	49927.89	43628.77	952.54	*RE
STORE	2428	49942.07	43628.57	952.48	*RC
STORE	2429	49954.67	43628.26	952.39	*RE
STORE	2430	49969.17	43627.93	951.72	*TOE
STORE	2431	49980.65	43627.61	953.49	*FL 6FT CONCBLK
STORE	2432	49979.52	43526.69	953.06	*FL 6FT CONCBLK
STORE	2433	49969.52	43526.34	951.60	*TOE
STORE	2434	49955.25	43526.63	952.17	*RE
STORE	2435	49941.93	43526.86	952.15	*RC
STORE	2436	49927.83	43527.65	952.29	*RE
STORE	2437	49914.89	43527.47	952.36	*IG
STORE	2438	49914.04	43527.92	952.77	*TOP IG
STORE	2439	49911.28	43527.92	952.05	*TOP CONC
STORE	2440	49908.46	43527.80	949.87	*IC
STORE	2441	49907.49	43527.85	949.86	*IC

STORE	2442	49904.39	43528.35	952.07	*TOP CONC
STORE	2443	49902.91	43528.18	952.81	*TOP IG
STORE	2444	49900.71	43528.28	951.68	*IG
STORE	2445	49885.78	43529.25	951.62	*IG
STORE	2446	49881.97	43529.80	952.77	*TOP IG
STORE	2447	49880.72	43529.64	952.78	*TOP CONC
STORE	2448	49878.76	43530.05	951.29	*IC
STORE	2449	49877.31	43529.92	951.13	*IC
STORE	2450	49875.50	43530.16	952.71	*TOP CONC
STORE	2451	49874.49	43530.14	952.86	*TOP IG
STORE	2452	49871.44	43530.23	950.98	*IG
STORE	2453	49825.68	43529.32	950.69	*IG
STORE	2454	49979.21	43428.89	952.67	*FL IG
STORE	2455	49970.29	43429.47	951.44	*TOE
STORE	2456	49954.49	43428.53	952.20	*RE
STORE	2457	49941.51	43428.37	952.17	*RC
STORE	2458	49928.01	43427.92	952.32	*RE
STORE	2459	49914.63	43427.76	952.40	*IG
STORE	2460	49913.25	43427.65	952.90	*TOP IG
STORE	2461	49910.76	43427.37	951.91	*TOP CONC
STORE	2462	49907.70	43427.01	949.75	*IC
STORE	2463	49906.96	43426.94	949.74	*IC
STORE	2464	49903.98	43426.94	951.94	*TOP CONC
STORE	2465	49901.92	43426.69	952.60	*TOP IG
STORE	2466	49900.15	43426.48	951.53	*IG
STORE	2467	49884.68	43427.12	951.48	*IG
STORE	2468	49882.05	43427.13	952.42	*TOP IG
STORE	2469	49879.88	43427.15	952.63	*TOP CONC
STORE	2470	49877.98	43427.24	951.20	*IC
STORE	2471	49876.52	43427.29	951.19	*IC
STORE	2472	49874.91	43427.12	952.58	*TOP CONC
STORE	2473	49870.73	43427.46	950.73	*IG
STORE	2474	49825.50	43426.56	950.63	*IG
STORE	2475	49826.86	43326.92	950.50	*IG
STORE	2476	49870.70	43326.56	950.89	*IG
STORE	2477	49873.97	43326.34	952.72	*TOP CONC
STORE	2478	49875.86	43326.13	950.94	*IC
STORE	2479	49876.94	43326.26	950.90	*IC
STORE	2480	49878.99	43326.10	952.69	*TOP CONC
STORE	2481	49880.80	43326.09	952.42	*TOP IG
STORE	2482	49883.96	43325.92	951.30	*IG
STORE	2483	49899.50	43326.53	951.44	*IG
STORE	2484	49901.28	43326.80	952.28	*TOP IG
STORE	2485	49903.23	43327.12	951.88	*TOP CONC
STORE	2486	49906.17	43327.12	949.67	*IC
STORE	2487	49906.91	43327.02	949.67	*IC
STORE	2488	49909.96	43326.86	951.83	*TOP CONC
STORE	2489	49912.06	43326.85	952.40	*TOP IG
STORE	2490	49914.39	43326.89	951.90	*IG
STORE	2491	49927.49	43326.91	951.99	*RE
STORE	2492	49941.43	43326.22	951.84	*RC
STORE	2493	49954.51	43326.35	951.93	*RE
STORE	2494	49969.39	43326.37	951.05	*TOE
STORE	2495	49978.36	43326.19	952.79	*FL IG
STORE	2496	49977.20	43226.57	952.40	*FL IG
STORE	2497	49968.30	43225.86	950.60	*TOE
STORE	2498	49955.38	43226.27	951.39	*RE
STORE	2499	49928.09	43225.96	951.41	*RE
STORE	2500	49913.75	43226.20	951.64	*IG
STORE	2501	49911.00	43226.46	952.28	*TOP IG
STORE	2502	49909.27	43226.67	951.71	*TOP CONC
STORE	2503	49906.29	43226.80	949.55	*IC
STORE	2504	49905.29	43226.86	949.60	*IC
STORE	2505	49902.60	43226.77	951.77	*TOP CONC
STORE	2506	49900.84	43227.04	952.38	*TOP IG
STORE	2507	49898.56	43227.13	951.44	*IG
STORE	2508	49882.83	43228.31	951.11	*IG
STORE	2509	49878.90	43228.32	952.52	*TOP IG
STORE	2510	49878.05	43228.36	952.55	*TOP CONC
STORE	2511	49876.17	43228.22	950.86	*IC
STORE	2512	49875.00	43228.24	950.86	*IC
STORE	2513	49873.00	43228.49	952.50	*TOP CONC
STORE	2514	49869.02	43228.56	950.81	*IG
STORE	2515	49823.74	43230.56	950.35	*IG
STORE	2516	49943.65	43123.79	950.81	*RM
STORE	2517	49942.87	43024.43	950.44	*RM
STORE	2518	49942.08	42924.43	950.29	*RM
STORE	2519	49941.71	42824.65	950.12	*RM
STORE	2520	49940.83	42724.71	949.95	*RM

STORE	2521	49883.26	44830.21	950.53	*IG
STORE	2522	49909.17	44829.30	950.90	*IG
STORE	2523	49916.02	44829.25	952.15	*TOP CONC
STORE	2524	49918.28	44828.74	950.21	*IC
STORE	2525	49919.33	44828.87	950.24	*IC
STORE	2526	49921.38	44829.24	951.96	*TOP CONC
STORE	2527	49957.09	44830.27	952.25	*C/L IG
STORE	2528	49964.16	44830.63	951.78	*TOE
STORE	2529	49966.39	44830.37	952.85	*TOP IG
STORE	2530	49968.37	44830.19	951.82	*TOE
STORE	2531	50007.19	44830.82	952.24	*IG
STORE	2532	50058.33	44831.72	952.49	*IG
STORE	2533	50057.40	44930.19	952.33	*IG
STORE	2534	50009.82	44930.33	952.00	*IG
STORE	2535	49968.01	44930.38	951.84	*TOE
STORE	2536	49965.43	44930.39	953.19	*TOP IG
STORE	2537	49962.95	44930.21	951.83	*TOE
STORE	2538	49957.96	44930.03	952.01	*C/L IG
STORE	2539	49922.23	44930.40	951.83	*TOP CONC
STORE	2540	49919.86	44929.85	949.75	*IC
STORE	2541	49918.72	44929.83	949.82	*IC
STORE	2542	49916.68	44929.62	951.75	*TOP CONC
STORE	2543	49903.92	44929.33	951.27	*IG
STORE	2544	49851.30	44929.65	950.83	*IG
STORE	2545	49849.19	45032.67	949.25	*IG
STORE	2546	49914.59	45031.22	950.02	*IG
STORE	2547	49917.58	45031.66	951.45	*TOP CONC
STORE	2548	49919.73	45031.59	949.68	*IC
STORE	2549	49920.81	45031.66	949.62	*IC
STORE	2550	49922.98	45031.98	951.49	*TOP CONC
STORE	2551	49958.79	45029.71	951.53	*C/L IG
STORE	2552	49963.06	45029.91	951.42	*TOE
STORE	2553	49965.70	45030.09	952.62	*TOP IG
STORE	2554	49968.35	45029.67	951.71	*TOE
STORE	2555	50008.41	45028.60	951.85	*IG
STORE	2556	50057.37	45026.64	952.12	*IG
STORE	2557	50056.59	45129.32	951.97	*IG
STORE	2558	50008.83	45129.76	951.59	*IG
STORE	2559	49969.40	45130.50	951.47	*TOE
STORE	2560	49966.95	45130.15	952.01	*TOP IG
STORE	2561	49963.72	45129.83	951.13	*TOE
STORE	2562	49959.66	45130.06	951.20	*C/L IG
STORE	2563	49925.55	45130.08	951.86	*IG
STORE	2564	49924.01	45130.04	951.34	*TOP CONC
STORE	2565	49921.74	45130.08	949.40	*IC
STORE	2566	49920.85	45130.22	949.41	*IC
STORE	2567	49918.73	45130.15	951.39	*TOP CONC
STORE	2568	49915.35	45129.82	949.96	*IG
STORE	2569	49843.87	45130.78	949.25	*IG
STORE	2570	49839.54	45229.44	949.15	*IG
STORE	2571	49916.07	45229.86	949.75	*IG
STORE	2572	49919.52	45230.05	951.22	*TOP CONC
STORE	2573	49921.61	45230.20	949.28	*IC
STORE	2574	49922.56	45230.44	949.28	*IC
STORE	2575	49924.56	45230.55	950.78	*TOP CONC
STORE	2576	49925.72	45230.82	951.38	*IG
STORE	2577	49963.99	45230.18	950.84	*TOE
STORE	2578	49965.84	45230.24	951.96	*TOP IG
STORE	2579	49967.53	45229.81	951.12	*TOE
STORE	2580	50013.58	45229.51	951.36	*IG
STORE	2581	50069.78	45228.91	951.73	*IG
STORE	2582	50062.30	45330.29	951.74	*IG
STORE	2583	50014.06	45329.99	951.22	*IG
STORE	2584	49967.12	45330.24	951.02	*TOE
STORE	2585	49965.82	45330.44	951.72	*TOP IG
STORE	2586	49963.93	45329.97	950.78	*TOE
STORE	2587	49961.25	45330.24	950.82	*C/L IG
STORE	2588	49950.61	45330.48	950.88	*IG
STORE	2589	49938.09	45330.03	951.33	*IG
STORE	2590	49927.57	45329.70	951.31	*IG
STORE	2591	49925.39	45330.06	950.86	*TOP CONC
STORE	2592	49923.56	45329.89	949.16	*IC
STORE	2593	49922.44	45330.02	949.12	*IC
STORE	2594	49920.31	45329.98	951.34	*TOP CONC
STORE	2595	49916.41	45330.01	949.56	*IG
STORE	2596	49853.50	45329.72	949.08	*IG
STORE	2597	49845.53	45431.94	949.00	*IG
STORE	2598	49917.71	45432.65	949.48	*IG
STORE	2599	49921.36	45431.29	951.05	*TOP CONC

STORE	2600	49923.33	45431.36	949.12	*IC
STORE	2601	49924.37	45431.61	949.12	*IC
STORE	2602	49926.04	45430.97	950.68	*TOP CONC
STORE	2603	49927.68	45430.99	951.16	*IG
STORE	2604	49940.47	45430.51	951.09	*IG
STORE	2605	49950.68	45430.35	950.64	*IG
STORE	2606	49961.95	45430.23	950.48	*C/L IG
STORE	2607	49963.87	45430.43	950.40	*TOE
STORE	2608	49965.58	45430.41	951.62	*TOP IG
STORE	2609	49966.90	45430.24	950.80	*TOE
STORE	2610	50013.34	45429.50	951.04	*IG
STORE	2611	50067.09	45428.95	951.51	*IG
STORE	2612	50066.60	45529.07	951.21	*IG
STORE	2613	50014.11	45529.77	950.67	*IG
STORE	2614	49966.79	45530.52	950.61	*TOE
STORE	2615	49965.24	45530.38	951.31	*TOP IG
STORE	2616	49962.85	45530.45	950.27	*C/L IG
STORE	2617	49927.42	45529.25	950.80	*TOP CONC
STORE	2618	49922.44	45529.75	950.98	*TOP CONC
STORE	2619	49924.45	45529.17	949.06	*IC
STORE	2620	49925.56	45529.45	949.06	*IC
STORE	2621	49918.75	45529.44	949.37	*IG
STORE	2622	49854.35	45528.93	948.86	*IG
STORE	2623	49849.96	45631.25	948.72	*IG
STORE	2624	49920.42	45630.58	949.16	*IG
STORE	2625	49923.28	45630.49	950.89	*TOP CONC
STORE	2626	49928.35	45630.46	950.52	*TOP CONC
STORE	2627	49926.41	45630.78	948.96	*IC
STORE	2628	49925.29	45631.04	948.96	*IC
STORE	2629	49963.81	45630.17	950.28	*C/L IG
STORE	2630	49965.19	45630.08	951.22	*TOP IG
STORE	2631	49967.22	45629.98	950.42	*TOE
STORE	2632	50018.89	45629.43	950.58	*IG
STORE	2633	50065.86	45629.62	950.98	*IG
STORE	2634	50066.72	45734.16	950.66	*IG
STORE	2635	50016.67	45734.53	950.23	*IG
STORE	2636	49967.74	45735.63	950.21	*TOE
STORE	2637	49961.16	45735.91	950.47	*TOE
STORE	2638	49929.01	45735.88	950.48	*TOP CONC
STORE	2639	49924.22	45736.28	950.69	*TOP CONC
STORE	2640	49927.19	45736.00	948.90	*IC
STORE	2641	49926.16	45735.83	948.92	*IC
STORE	2642	49920.79	45736.01	949.11	*IG
STORE	2643	49853.99	45735.42	948.74	*IG
STORE	2644	49847.06	45835.38	948.83	*IG
STORE	2645	49921.53	45836.09	949.34	*IG
STORE	2646	49925.01	45835.95	950.72	*TOP CONC
STORE	2647	49929.98	45835.88	950.22	*TOP CONC
STORE	2648	49931.78	45835.42	950.86	*IG
STORE	2649	49963.68	45834.65	950.29	*TOE
STORE	2650	49965.34	45834.54	950.90	*C/L IG
STORE	2651	49967.69	45834.73	950.17	*TOE
STORE	2652	50018.89	45834.10	950.24	*IG
STORE	2653	50072.67	45833.58	950.42	*IG
STORE	2654	50072.02	45933.19	950.26	*IG
STORE	2655	50019.97	45934.00	950.03	*IG
STORE	2656	49966.24	45934.59	950.43	*C/L IG
STORE	2657	49931.09	45933.83	950.61	*TOP CONC
STORE	2658	49925.90	45935.29	950.65	*TOP CONC
STORE	2659	49927.86	45934.95	948.82	*IC
STORE	2660	49929.08	45934.68	948.72	*IC
STORE	2661	49921.92	45935.71	949.30	*IG
STORE	2662	49856.25	45935.84	949.35	*IG
STORE	2663	49964.61	45949.06	948.10	*INV 18INCONCPIPE
STORE	2664	49931.15	45969.68	947.94	*INV 18INCONCPIPE
STORE	2665	49929.53	45977.19	948.28	*IG
STORE	2666	49931.90	45972.56	950.75	*TOP CONC ANG PT
STORE	2667	49878.99	45977.52	947.43	*IG
STORE	2668	49879.39	45972.59	950.22	*TOP CONC
STORE	2669	49878.93	45970.55	948.26	*IC
STORE	2670	49878.70	45969.28	948.37	*IC
STORE	2671	49878.33	45967.25	950.23	*TOP CONC
STORE	2672	49926.02	45967.00	950.43	*TOP CONC ANG PT
STORE	2673	49859.67	46031.83	947.05	*IG
STORE	2674	49928.34	46034.31	947.65	*IG
STORE	2675	49966.98	46034.39	948.50	*IG
STORE	2676	50032.19	46035.39	948.91	*IG
STORE	2677	50071.87	46035.86	949.83	*IG
STORE	2678	50075.05	46131.48	947.47	*IG

STORE	2679	50023.13	46132.88	947.14	*IG
STORE	2680	49967.66	46134.57	946.84	*C/L IG
STORE	2681	49950.43	46135.60	946.92	*IG
STORE	2682	49938.75	46135.73	947.53	*IG
STORE	2683	49927.40	46135.93	947.01	*IG
STORE	2684	49894.90	46136.89	946.86	*IG
STORE	2685	49840.80	46138.30	946.60	*IG
STORE	2686	49837.58	46239.51	946.17	*IG
STORE	2687	49890.42	46238.06	946.51	*IG
STORE	2688	49927.40	46236.86	946.65	*IG
STORE	2689	49940.99	46235.53	946.91	*IG
STORE	2690	49948.44	46235.68	945.82	*IG
STORE	2691	50019.28	46234.51	946.63	*IG
STORE	2692	50069.21	46230.97	947.07	*IG
STORE	2693	49969.38	46334.74	945.59	*C/L IG
STORE	2694	49970.19	46434.44	945.23	*C/L IG
STORE	2695	49971.01	46534.73	944.95	*C/L IG
STORE	2696	49971.82	46634.33	944.44	*C/L IG
STORE	2697	49972.64	46734.79	944.30	*FFS
STORE	10031	47858.56	49961.47	939.50	*.
STORE	10032	47115.37	48875.44	931.00	*.
STORE	10033	46191.82	47674.45	932.37	*.
STORE	10034	46684.81	48209.15	932.21	*.
STORE	10035	45982.34	47309.17	927.52	*.
STORE	10036	45836.03	46952.08	924.84	*.
STORE	10037	45865.35	46506.43	924.69	*.
STORE	10038	45783.43	46011.22	922.00	*.
STORE	10039	45701.99	45518.97	919.99	*.
STORE	10040	45578.43	44772.07	917.97	*.
STORE	10041	45393.04	44194.92	915.76	*.
STORE	10042	45329.95	43725.71	914.61	*.
STORE	10043	45243.53	43208.18	913.12	*.
STORE	10044	45168.29	42676.17	912.08	*.
STORE	10045	45094.18	42152.21	911.67	*.
STORE	10046	45018.11	41614.35	908.32	*.
STORE	10120	45218.31	41607.42	910.24	*TOE
STORE	10121	45215.76	41608.74	911.05	*TOP
STORE	10122	45212.28	41609.36	911.70	*NTR
STORE	10123	45203.22	41610.06	911.02	*TOP
STORE	10124	45189.52	41612.38	908.64	*TOE
STORE	10125	45183.11	41613.45	908.43	*IG
STORE	10126	45166.41	41615.43	908.86	*IG
STORE	10127	45156.18	41616.89	908.79	*IG
STORE	10128	45151.75	41617.73	909.35	*IG
STORE	10129	45147.76	41618.74	909.00	*IG
STORE	10130	45134.01	41620.20	909.48	*IG
STORE	10131	45105.32	41625.54	907.61	*IG
STORE	10132	45076.41	41629.19	910.46	*RE
STORE	10133	45056.04	41630.31	910.87	*RC
STORE	10134	45036.70	41633.19	910.49	*RE
STORE	10135	45018.61	41635.59	908.57	*IG
STORE	10136	44982.11	41638.47	908.21	*IG
STORE	10137	44908.14	41649.01	907.83	*IG
STORE	10138	45187.80	41682.57	909.25	*EG
STORE	10139	45189.18	41691.91	909.29	*EP
STORE	10140	45231.83	41706.69	910.57	*TOE
STORE	10141	45229.49	41706.95	911.39	*TOP
STORE	10142	45226.71	41707.33	912.07	*NTR
STORE	10143	45218.05	41708.51	911.45	*TOP
STORE	10144	45215.16	41708.99	910.51	*TOE
STORE	10145	45198.72	41710.87	908.79	*IG
STORE	10146	45179.05	41713.75	909.34	*IG
STORE	10147	45168.10	41716.19	909.21	*IG
STORE	10148	45165.45	41716.39	909.61	*IG
STORE	10149	45148.16	41719.07	909.82	*IG
STORE	10150	45126.27	41721.53	908.25	*IG
STORE	10151	45116.97	41723.70	908.09	*IG
STORE	10152	45090.71	41727.60	910.88	*RE
STORE	10153	45071.02	41730.15	911.17	*RC
STORE	10154	45051.02	41732.99	910.70	*RE
STORE	10155	45033.45	41736.29	908.81	*IG
STORE	10156	44982.68	41743.48	908.44	*IG
STORE	10157	44930.77	41749.95	908.08	*IG
STORE	10158	45246.56	41804.63	911.11	*TOE
STORE	10159	45244.70	41805.47	911.78	*TOP
STORE	10160	45241.19	41805.99	912.46	*NTR
STORE	10161	45233.06	41807.57	911.83	*TOP
STORE	10162	45229.88	41808.19	910.86	*TOE
STORE	10163	45220.09	41809.66	909.60	*IG

STORE	10164	45210.30	41811.02	909.53	*IG
STORE	10165	45206.00	41811.86	909.97	*IG
STORE	10166	45212.44	41851.66	910.50	*EP
STORE	10167	45184.40	41861.20	910.37	*FO
STORE	10168	45184.79	41814.19	909.68	*IG
STORE	10169	45180.05	41816.36	910.29	*IG
STORE	10170	45176.64	41817.05	909.89	*IG
STORE	10171	45163.65	41818.38	910.60	*IG
STORE	10172	45137.85	41823.27	908.40	*IG
STORE	10173	45130.38	41822.71	908.44	*IG
STORE	10174	45105.27	41826.19	911.34	*RE
STORE	10175	45085.12	41828.69	911.66	*RC
STORE	10176	45065.19	41831.53	911.22	*RE
STORE	10177	45045.87	41835.31	908.58	*IG
STORE	10178	44991.57	41841.48	908.35	*IG
STORE	10179	44939.70	41849.74	908.25	*IG
STORE	10180	45260.94	41902.14	911.48	*TOE
STORE	10181	45258.94	41902.75	912.21	*TOP
STORE	10182	45255.50	41903.25	912.86	*NTR
STORE	10183	45247.54	41904.75	912.24	*TOP
STORE	10184	45243.90	41904.56	911.08	*TOE
STORE	10185	45235.01	41905.44	910.22	*IG
STORE	10186	45223.80	41906.89	910.08	*IG
STORE	10187	45219.38	41907.91	910.49	*IG
STORE	10188	45210.16	41910.14	910.51	*IG
STORE	10189	45198.72	41912.15	910.22	*IG
STORE	10190	45195.07	41912.94	910.79	*IG
STORE	10191	45191.74	41912.62	910.36	*IG
STORE	10192	45182.88	41914.64	910.49	*IG
STORE	10193	45175.70	41916.18	911.06	*IG
STORE	10194	45150.13	41921.36	908.74	*IG
STORE	10195	45140.57	41922.62	908.93	*IG
STORE	10196	45120.05	41925.65	911.59	*RE
STORE	10197	45099.65	41927.69	911.84	*RC
STORE	10198	45079.94	41930.61	911.58	*RE
STORE	10199	45055.44	41934.38	908.72	*IG
STORE	10200	44998.35	41945.27	908.31	*IG
STORE	10201	44939.34	41956.33	908.42	*IG
STORE	10202	45234.16	41998.99	911.00	*EP
STORE	10203	45275.30	42002.71	912.07	*TOE
STORE	10204	45274.15	42003.14	912.54	*TOP
STORE	10205	45270.20	42003.52	913.25	*NTR
STORE	10206	45261.88	42004.32	912.64	*TOP
STORE	10207	45259.19	42004.80	911.54	*TOE
STORE	10208	45248.78	42006.58	910.64	*IG
STORE	10209	45237.82	42009.05	910.80	*IG
STORE	10210	45214.91	42012.04	910.53	*IG
STORE	10211	45209.36	42012.88	911.04	*IG
STORE	10212	45203.45	42013.58	910.55	*IG
STORE	10213	45189.27	42016.00	911.44	*IG
STORE	10214	45162.02	42020.62	909.08	*IG
STORE	10215	45134.57	42024.55	912.04	*RE
STORE	10216	45114.28	42028.14	912.40	*RC
STORE	10217	45094.71	42031.17	911.94	*RE
STORE	10218	45055.79	42036.84	908.65	*IG
STORE	10219	45048.11	42045.17	908.81	*IT
STORE	10220	45048.09	42048.45	909.94	*TOP
STORE	10221	45048.10	42054.19	907.96	*IF
STORE	10222	45048.38	42058.60	910.01	*TOP
STORE	10223	44964.40	42064.25	909.34	*IT
STORE	10224	44964.43	42062.50	910.17	*TOP
STORE	10225	44964.23	42056.76	907.63	*IF
STORE	10226	44964.47	42050.21	910.30	*TOP
STORE	10227	44971.43	42047.81	908.81	*IT
STORE	10228	45053.65	42098.48	907.41	*IF 24IN CONCPIPE
STORE	10229	45057.19	42099.14	908.18	*IF 24IN CONCPIPE
STORE	10230	45072.47	42119.25	908.17	*IF 24IN CONCPIPE
STORE	10231	45067.98	42120.48	907.86	*IF 24IN CONCPIPE
STORE	10232	44986.26	42100.17	910.91	*TOP
STORE	10233	44985.92	42097.19	908.44	*IT
STORE	10234	44984.80	42092.40	908.59	*IT
STORE	10235	44985.34	42088.32	911.27	*TOP
STORE	10236	45051.66	42084.73	912.18	*TOP
STORE	10237	45049.60	42088.42	908.52	*IT
STORE	10238	45046.19	42093.63	908.75	*IT
STORE	10239	45043.59	42099.68	911.34	*TOP
STORE	10240	45051.67	42132.06	911.35	*WM
STORE	10241	45058.58	42150.98	911.21	*WV
STORE	10242	45172.88	42139.28	910.27	*SM

STORE	10243	45178.00	42152.06	911.95	*WV
STORE	10244	45202.74	42113.52	911.15	*GL
STORE	10245	45198.06	42113.96	911.25	*GL
STORE	10246	45254.34	42135.43	911.69	*EP
STORE	10247	45232.75	42184.51	912.17	*FO
STORE	10248	45290.21	42096.93	912.37	*TOE
STORE	10249	45287.46	42098.04	912.89	*TOP
STORE	10250	45284.18	42098.82	913.62	*NTR
STORE	10251	45275.91	42099.06	912.84	*TOP
STORE	10252	45271.51	42100.46	911.77	*TOE
STORE	10253	45255.74	42103.30	910.92	*IG
STORE	10254	45229.25	42109.01	911.03	*IG
STORE	10255	45220.94	42110.21	911.45	*IG
STORE	10256	45196.74	42114.83	911.02	*IG
STORE	10257	45185.64	42116.92	909.83	*IG
STORE	10258	45166.34	42120.78	910.18	*IG
STORE	10259	45148.65	42124.09	912.54	*RE
STORE	10260	45128.79	42128.03	912.82	*RC
STORE	10261	45109.71	42131.89	912.40	*RE
STORE	10262	45092.43	42134.44	911.61	*IG
STORE	10263	45080.30	42137.23	912.03	*TOP
STORE	10264	45076.32	42138.34	908.60	*IT
STORE	10265	45073.93	42139.31	908.33	*IT
STORE	10266	45068.83	42139.41	911.76	*TOP
STORE	10267	45022.30	42147.64	909.51	*IG
STORE	10268	44969.69	42158.92	909.44	*IG
STORE	10269	44988.04	42262.33	909.43	*IG
STORE	10270	45036.65	42256.67	909.53	*IG
STORE	10271	45067.10	42253.01	909.93	*IG
STORE	10272	45082.55	42246.17	911.26	*TOP
STORE	10273	45087.12	42245.28	908.74	*IT
STORE	10274	45091.32	42243.60	908.77	*IT
STORE	10275	45099.82	42241.75	912.16	*TOP
STORE	10276	45108.46	42240.03	911.87	*IG
STORE	10277	45125.12	42236.68	912.91	*RE
STORE	10278	45143.77	42229.82	913.27	*RC
STORE	10279	45163.43	42224.50	912.95	*RE
STORE	10280	45183.13	42222.21	910.00	*IG
STORE	10281	45202.06	42220.68	909.93	*IG
STORE	10282	45225.03	42218.45	911.65	*IG
STORE	10283	45263.56	42213.16	912.10	*IG
STORE	10284	45272.16	42212.54	911.13	*IG
STORE	10285	45288.50	42210.69	912.64	*TOE
STORE	10286	45291.62	42210.73	913.34	*TOP
STORE	10287	45300.50	42209.84	914.00	*NTR
STORE	10288	45303.67	42209.67	913.38	*TOP
STORE	10289	45306.17	42209.15	912.65	*TOE
STORE	10290	45277.02	42290.19	910.80	*EP
STORE	10291	45320.19	42303.22	913.01	*TOE
STORE	10292	45318.31	42303.73	913.59	*TOP
STORE	10293	45314.28	42303.90	914.36	*NTR
STORE	10294	45306.00	42305.32	913.77	*TOP
STORE	10295	45303.82	42305.70	912.91	*TOE
STORE	10296	45300.14	42306.63	912.95	*IG
STORE	10297	45292.26	42307.90	911.12	*IG
STORE	10298	45280.16	42309.82	911.17	*IG
STORE	10299	45268.35	42310.51	911.93	*IG
STORE	10300	45257.16	42312.41	911.76	*IG
STORE	10301	45253.58	42313.20	912.17	*IG
STORE	10302	45249.89	42312.98	911.61	*IG
STORE	10303	45237.20	42315.64	912.21	*IG
STORE	10304	45214.75	42318.74	910.20	*IG
STORE	10305	45202.08	42319.91	910.29	*IG
STORE	10306	45195.51	42320.98	910.37	*IG
STORE	10307	45177.61	42322.81	913.33	*RE
STORE	10308	45157.81	42326.08	913.59	*RC
STORE	10309	45138.33	42328.37	913.21	*RE
STORE	10310	45123.35	42330.95	911.84	*IG
STORE	10311	45113.09	42332.85	912.25	*TOP
STORE	10312	45106.16	42333.68	908.97	*IT
STORE	10313	45101.82	42334.57	908.96	*IT
STORE	10314	45096.77	42334.60	911.72	*TOP
STORE	10315	45070.08	42338.58	909.73	*IG
STORE	10316	45030.85	42344.87	909.62	*IG
STORE	10317	44987.99	42351.23	909.59	*IG
STORE	10318	45010.96	42446.97	909.75	*IG
STORE	10319	45048.40	42442.21	909.77	*IG
STORE	10320	45085.44	42436.91	909.98	*IG
STORE	10321	45110.75	42433.35	911.61	*TOP

STORE	10322	45115.88	42432.48	909.14	*IT
STORE	10323	45120.18	42433.97	909.13	*IT
STORE	10324	45128.05	42431.16	912.47	*TOP
STORE	10325	45137.75	42429.77	911.77	*IG
STORE	10326	45152.83	42427.72	913.19	*RE
STORE	10327	45172.27	42424.56	913.65	*RC
STORE	10328	45191.97	42421.38	913.40	*RE
STORE	10329	45210.26	42418.25	910.45	*IG
STORE	10330	45235.01	42413.85	910.54	*IG
STORE	10331	45249.68	42411.57	912.09	*IG
STORE	10332	45254.66	42444.78	912.49	*GL
STORE	10333	45246.42	42444.99	911.38	*GL
STORE	10334	45264.19	42407.98	911.46	*IG
STORE	10335	45267.07	42407.49	911.96	*IG
STORE	10336	45270.30	42407.96	911.32	*IG
STORE	10337	45291.65	42404.26	911.84	*IG
STORE	10338	45306.35	42401.42	911.37	*IG
STORE	10339	45314.24	42400.42	913.46	*IG
STORE	10340	45318.24	42399.31	913.39	*TOE
STORE	10341	45320.10	42398.80	914.12	*TOP
STORE	10342	45328.22	42398.72	914.74	*NTR
STORE	10343	45331.90	42397.77	914.11	*TOP
STORE	10344	45334.17	42397.41	913.37	*TOE
STORE	10345	45300.21	42444.72	912.16	*EP
STORE	10346	45349.51	42497.56	913.83	*TOE
STORE	10347	45346.18	42498.37	914.42	*TOP
STORE	10348	45342.87	42498.72	915.11	*NTR
STORE	10349	45335.33	42500.32	914.41	*TOP
STORE	10350	45332.27	42500.45	913.52	*TOE
STORE	10351	45324.98	42501.85	912.79	*IG
STORE	10352	45320.94	42502.19	911.45	*IG
STORE	10353	45284.11	42509.20	911.59	*IG
STORE	10354	45281.40	42508.27	911.91	*IG
STORE	10355	45278.36	42508.93	911.35	*IG
STORE	10356	45265.98	42511.82	912.15	*IG
STORE	10357	45246.91	42514.16	910.29	*IG
STORE	10358	45225.17	42518.14	910.78	*IG
STORE	10359	45206.79	42520.96	913.42	*RE
STORE	10360	45187.23	42523.90	913.75	*RC
STORE	10361	45167.19	42526.84	913.24	*RE
STORE	10362	45151.73	42528.72	911.86	*IG
STORE	10363	45139.36	42531.34	912.21	*TOP
STORE	10364	45134.70	42531.78	909.30	*IT
STORE	10365	45129.91	42532.29	909.28	*IT
STORE	10366	45125.26	42533.17	911.80	*TOP
STORE	10367	45114.94	42534.86	911.65	*IG
STORE	10368	45097.61	42537.60	910.00	*IG
STORE	10369	45042.19	42546.14	909.84	*IG
STORE	10370	45009.61	42551.63	910.00	*IG
STORE	10371	45025.51	42646.27	910.02	*IG
STORE	10372	45070.18	42640.50	910.08	*IG
STORE	10373	45112.51	42634.49	910.09	*IG
STORE	10374	45129.44	42631.95	911.61	*IG
STORE	10375	45139.32	42630.44	911.78	*TOP
STORE	10376	45144.74	42628.97	909.35	*IT
STORE	10377	45148.98	42627.51	909.27	*IT
STORE	10378	45153.61	42626.24	912.85	*TOP
STORE	10379	45166.46	42626.69	912.37	*IG
STORE	10380	45181.51	42624.41	913.46	*RE
STORE	10381	45201.12	42621.82	913.76	*RC
STORE	10382	45220.92	42619.16	913.33	*RE
STORE	10383	45239.01	42615.14	910.72	*IG
STORE	10384	45255.31	42612.94	910.38	*IG
STORE	10385	45280.74	42609.61	912.21	*IG
STORE	10386	45316.59	42601.07	910.93	*IG
STORE	10387	45319.94	42580.88	911.48	*EP
STORE	10388	45340.34	42598.14	911.77	*IG
STORE	10389	45346.35	42596.91	913.81	*TOE
STORE	10390	45349.69	42596.65	914.88	*TOP
STORE	10391	45357.24	42596.16	915.52	*NTR
STORE	10392	45360.81	42595.21	914.72	*TOP
STORE	10393	45363.48	42594.81	914.24	*TOE
STORE	10394	45379.04	42698.28	914.54	*TOE
STORE	10395	45375.26	42698.54	915.15	*TOP
STORE	10396	45372.27	42699.00	915.86	*NTR
STORE	10397	45364.36	42700.18	915.17	*TOP
STORE	10398	45361.80	42700.57	914.17	*TOE
STORE	10399	45358.65	42701.34	914.09	*IG
STORE	10400	45351.64	42703.23	911.35	*IG

STORE	10401	45342.20	42733.36	911.22	*EP
STORE	10402	45318.71	42707.12	911.04	*IG
STORE	10403	45311.52	42705.92	911.59	*IG
STORE	10404	45293.31	42710.34	911.69	*IG
STORE	10405	45272.73	42712.86	910.47	*IG
STORE	10406	45255.22	42714.99	910.67	*IG
STORE	10407	45235.47	42718.02	913.49	*RE
STORE	10408	45215.72	42720.45	913.86	*RC
STORE	10409	45196.39	42723.53	913.52	*RE
STORE	10410	45181.39	42725.90	912.37	*IG
STORE	10411	45168.81	42727.42	912.98	*TOP
STORE	10412	45162.96	42728.80	909.41	*IT
STORE	10413	45158.95	42729.74	909.42	*IT
STORE	10414	45154.95	42731.59	911.79	*TOP
STORE	10415	45139.42	42733.67	911.37	*IG
STORE	10416	45126.44	42735.15	910.19	*IG
STORE	10417	45090.81	42740.29	910.23	*IG
STORE	10418	45054.55	42745.30	910.29	*IG
STORE	10419	45067.31	42845.67	910.48	*IG
STORE	10420	45103.85	42839.95	910.38	*IG
STORE	10421	45141.33	42833.82	910.36	*IG
STORE	10422	45153.79	42832.07	911.33	*IG
STORE	10423	45168.78	42829.79	912.32	*TOP
STORE	10424	45173.69	42829.23	909.57	*IT
STORE	10425	45177.75	42827.74	909.48	*IT
STORE	10426	45183.01	42827.08	912.81	*TOP
STORE	10427	45196.08	42825.46	912.64	*IG
STORE	10428	45210.93	42822.59	913.61	*RE
STORE	10429	45202.30	42801.39	913.32	*RG
STORE	10430	45230.19	42819.69	913.92	*RC
STORE	10431	45250.17	42816.59	913.50	*RE
STORE	10432	45269.10	42814.49	910.74	*IG
STORE	10433	45306.92	42808.57	911.69	*IG
STORE	10434	45353.98	42801.16	911.44	*IG
STORE	10435	45368.46	42799.03	912.45	*TOE
STORE	10436	45378.23	42797.47	915.56	*TOP
STORE	10437	45386.63	42796.83	916.25	*NTR
STORE	10438	45390.18	42796.93	915.62	*TOP
STORE	10439	45393.80	42795.99	914.85	*TOE
STORE	10440	45406.65	42895.51	916.02	*COR RR BRIDGE
STORE	10441	45404.27	42879.02	915.85	*COR RR BRIDGE
STORE	10442	45388.54	42881.72	915.80	*COR RR BRIDGE
STORE	10443	45390.73	42898.20	915.73	*COR RR BRIDGE
STORE	10444	45389.16	42890.50	909.02	*C/L BRIDGE F/L
STORE	10445	45361.27	42864.14	909.70	*EP
STORE	10446	45328.93	42852.91	912.69	*FO
STORE	10447	45314.54	42854.49	911.75	*GL
STORE	10448	45306.54	42855.31	911.71	*GL
STORE	10449	45209.77	42850.81	913.61	*RG
STORE	10450	45213.76	42875.26	913.65	*RG
STORE	10451	45216.11	42898.78	914.03	*RG
STORE	10452	45218.72	42917.71	913.76	*RG
STORE	10453	45214.89	42917.99	911.51	*IW
STORE	10454	45217.51	42914.31	914.49	*IH
STORE	10455	45216.16	42907.82	909.67	*F/L BOX CULVERT
STORE	10456	45215.38	42900.75	914.31	*IH
STORE	10457	45212.62	42898.60	911.95	*IW
STORE	10458	45194.32	42901.60	913.03	*TOP
STORE	10459	45195.36	42908.89	910.27	*IT
STORE	10460	45195.08	42914.70	910.44	*IT
STORE	10461	45196.48	42921.58	913.25	*TOP
STORE	10462	45268.91	42909.94	911.30	*IW
STORE	10463	45265.38	42907.35	914.27	*IH
STORE	10464	45263.57	42893.81	914.29	*IH
STORE	10465	45265.75	42890.97	911.57	*IW
STORE	10466	45265.02	42901.01	909.59	*IF BOX CULVERT
STORE	10467	45310.36	42886.55	912.19	*TOE
STORE	10468	45310.44	42888.36	912.55	*TOP
STORE	10469	45310.29	42896.33	909.03	*IT
STORE	10470	45314.03	42911.58	912.39	*TOE
STORE	10471	45313.42	42909.68	913.43	*TOP
STORE	10472	45311.89	42902.24	908.85	*IT
STORE	10473	45321.49	42956.29	913.74	*GL
STORE	10474	45329.01	42954.41	911.48	*GL
STORE	10475	45342.45	42949.50	912.37	*FO
STORE	10476	45410.99	42904.14	913.93	*TOE
STORE	10477	45407.12	42904.14	915.73	*TOP
STORE	10478	45402.57	42904.46	916.48	*NTR
STORE	10479	45393.95	42905.77	915.88	*TOP

STORE	10480	45385.55	42907.05	912.98	*TOE
STORE	10481	45293.42	42913.71	912.29	*IG
STORE	10482	45264.62	42916.48	913.78	*RE
STORE	10483	45245.04	42918.93	914.11	*RC
STORE	10484	45225.29	42922.12	913.79	*RE
STORE	10485	45218.05	42923.22	913.60	*IG
STORE	10486	45212.39	42923.16	914.37	*IG
STORE	10487	45197.36	42926.98	913.07	*TOP
STORE	10488	45190.97	42928.24	909.86	*IT
STORE	10489	45185.94	42928.28	909.69	*IT
STORE	10490	45180.34	42929.26	912.84	*TOP
STORE	10491	45167.71	42931.29	912.02	*IG
STORE	10492	45153.68	42929.94	910.59	*IG
STORE	10493	45118.50	42933.88	910.52	*IG
STORE	10494	45087.44	42937.47	910.57	*IG
STORE	10495	45099.52	43033.86	910.72	*IG
STORE	10496	45133.59	43030.80	910.65	*IG
STORE	10497	45169.46	43026.74	910.84	*IG
STORE	10498	45181.57	43024.42	911.86	*IG
STORE	10499	45182.96	43024.32	912.46	*IG
STORE	10500	45194.20	43023.54	912.77	*TOP
STORE	10501	45200.06	43022.60	909.67	*IT
STORE	10502	45204.56	43023.21	909.82	*IT
STORE	10503	45212.58	43021.68	913.43	*TOP
STORE	10504	45224.00	43019.91	912.79	*IG
STORE	10505	45239.67	43017.88	913.89	*RE
STORE	10506	45259.16	43015.26	914.13	*RC
STORE	10507	45279.28	43012.11	913.59	*RE
STORE	10508	45282.88	43007.33	913.06	*RG
STORE	10509	45275.61	42958.24	913.31	*RG
STORE	10510	45296.20	43010.57	911.14	*IG
STORE	10511	45335.79	43008.56	911.56	*IG
STORE	10512	45380.81	43004.61	911.68	*IG
STORE	10513	45386.64	43003.62	912.21	*IG
STORE	10514	45400.39	43000.07	912.74	*TOE
STORE	10515	45408.59	42999.30	915.84	*TOP
STORE	10516	45416.10	42997.29	916.46	*NTR
STORE	10517	45418.87	42996.34	915.81	*TOP
STORE	10518	45422.10	42995.80	914.95	*TOE
STORE	10519	45387.63	43042.59	911.55	*EP
STORE	10520	45353.20	43046.63	912.02	*FO
STORE	10521	45437.07	43090.56	914.93	*TOE
STORE	10522	45432.99	43090.77	915.75	*TOP
STORE	10523	45429.85	43091.08	916.47	*NTR
STORE	10524	45422.04	43092.65	915.86	*TOP
STORE	10525	45411.25	43094.47	912.58	*TOE
STORE	10526	45369.29	43100.80	911.27	*IG
STORE	10527	45366.67	43101.67	911.96	*IG
STORE	10528	45363.83	43102.61	911.13	*IG
STORE	10529	45319.29	43111.23	910.97	*IG
STORE	10530	45310.43	43109.48	911.24	*IG
STORE	10531	45293.42	43111.44	913.81	*RE
STORE	10532	45273.67	43114.62	914.23	*RC
STORE	10533	45254.07	43117.42	914.03	*RE
STORE	10534	45238.86	43120.59	912.78	*IG
STORE	10535	45228.15	43123.09	913.52	*TOP
STORE	10536	45219.44	43125.04	909.84	*IT
STORE	10537	45215.16	43125.29	909.82	*IT
STORE	10538	45209.41	43126.14	913.07	*TOP
STORE	10539	45199.09	43127.59	912.95	*IG
STORE	10540	45181.47	43129.93	910.93	*IG
STORE	10541	45150.82	43134.36	910.86	*IG
STORE	10542	45119.58	43137.72	910.87	*IG
STORE	10543	45129.54	43233.37	911.05	*IG
STORE	10544	45159.82	43230.57	911.08	*IG
STORE	10545	45196.07	43225.66	911.21	*IG
STORE	10546	45209.89	43223.24	912.20	*IG
STORE	10547	45211.04	43223.14	912.91	*IG
STORE	10548	45222.65	43221.77	913.19	*TOP
STORE	10549	45227.70	43220.77	910.08	*IT
STORE	10550	45232.45	43220.45	910.13	*IT
STORE	10551	45242.46	43219.94	913.85	*TOP
STORE	10552	45253.04	43218.07	912.81	*IG
STORE	10553	45268.33	43215.55	913.92	*RE
STORE	10554	45288.04	43212.58	914.24	*RC
STORE	10555	45307.87	43210.62	913.88	*RE
STORE	10556	45325.44	43207.07	911.44	*IG
STORE	10557	45360.47	43206.79	911.44	*IG
STORE	10558	45382.94	43206.47	911.81	*IG

STORE	10559	45389.14	43206.01	911.23	*IG
STORE	10560	45409.97	43197.80	911.49	*EP
STORE	10561	45425.89	43199.15	912.15	*TOE
STORE	10562	45437.46	43196.79	916.08	*TOP
STORE	10563	45445.16	43195.67	916.52	*NTR
STORE	10564	45448.15	43195.46	916.04	*TOP
STORE	10565	45450.56	43195.95	914.96	*TOE
STORE	10566	45462.67	43290.06	915.87	*TOP
STORE	10567	45459.06	43290.68	916.61	*NTR
STORE	10568	45445.91	43292.49	915.36	*TOP
STORE	10569	45438.38	43293.68	911.83	*TOE
STORE	10570	45429.36	43331.10	913.22	*EP
STORE	10571	45400.50	43297.24	911.52	*IG
STORE	10572	45396.21	43298.31	912.10	*IG
STORE	10573	45376.83	43301.47	912.27	*IG
STORE	10574	45354.50	43307.13	911.39	*IG
STORE	10575	45340.43	43305.96	911.51	*IG
STORE	10576	45322.40	43308.24	913.95	*RE
STORE	10577	45302.23	43310.36	914.40	*RC
STORE	10578	45282.39	43313.12	914.00	*RE
STORE	10579	45266.95	43315.75	913.06	*IG
STORE	10580	45253.57	43317.51	913.29	*TOP
STORE	10581	45246.71	43317.66	910.15	*IT
STORE	10582	45242.45	43318.28	909.89	*IT
STORE	10583	45238.21	43317.08	912.54	*TOP
STORE	10584	45224.04	43319.68	912.23	*IG
STORE	10585	45210.02	43321.68	911.28	*IG
STORE	10586	45180.30	43324.14	911.13	*IG
STORE	10587	45145.86	43329.98	911.19	*IG
STORE	10588	45256.01	43378.21	909.80	*INV 36IN PIPE
STORE	10589	45257.93	43375.96	912.89	*IH
STORE	10590	45253.16	43376.71	912.67	*IH
STORE	10591	45258.00	43395.94	909.48	*INV 36IN PIPE
STORE	10592	45262.29	43395.71	912.57	*IH
STORE	10593	45255.27	43396.30	912.85	*IH
STORE	10594	45263.37	43402.96	912.33	*IH
STORE	10595	45256.25	43409.74	910.07	*INV 30IN PIPE
STORE	10596	45215.34	43409.64	912.84	*TOP OF BANK
STORE	10597	45215.32	43406.90	910.24	*IT
STORE	10598	45215.10	43405.94	910.21	*IT
STORE	10599	45214.56	43403.46	912.70	*TOP OF BANK
STORE	10600	45274.51	43406.82	913.57	*TT
STORE	10601	45281.09	43404.50	913.91	*BV
STORE	10602	45261.43	43440.49	910.46	*INV 30IN PIPE
STORE	10603	45265.94	43439.44	913.53	*IH
STORE	10604	45257.89	43440.99	913.78	*IH
STORE	10605	45273.67	43440.99	915.31	*RG
STORE	10606	45303.38	43459.92	914.25	*RE
STORE	10607	45288.66	43441.21	914.04	*RE
STORE	10608	45269.09	43431.97	913.96	*RE
STORE	10609	45268.18	43413.73	913.55	*RE
STORE	10610	45283.14	43406.97	913.81	*RE
STORE	10611	45292.82	43388.73	914.17	*RE
STORE	10612	45489.61	43385.19	915.47	*TOE
STORE	10613	45484.12	43385.22	916.17	*TOP
STORE	10614	45473.00	43386.37	916.70	*NTR
STORE	10615	45462.28	43387.79	916.00	*TOP
STORE	10616	45453.58	43389.15	912.07	*TOE
STORE	10617	45412.69	43395.93	911.90	*IG
STORE	10618	45390.96	43398.60	912.25	*IG
STORE	10619	45362.64	43402.81	911.67	*IG
STORE	10620	45355.33	43404.08	911.75	*IG
STORE	10621	45336.59	43407.30	914.36	*RE
STORE	10622	45316.69	43409.60	914.58	*RC
STORE	10623	45260.06	43418.82	913.60	*RP
STORE	10624	45201.11	43426.12	913.04	*RP
STORE	10625	45157.08	43432.71	912.98	*IG
STORE	10626	45506.16	43481.29	915.00	*TOE
STORE	10627	45502.21	43481.62	916.58	*TOP
STORE	10628	45487.42	43483.92	916.88	*NTR
STORE	10629	45477.65	43486.23	916.06	*TOP
STORE	10630	45467.40	43487.99	912.41	*TOE
STORE	10631	45459.35	43489.10	911.54	*IG
STORE	10632	45452.85	43485.98	912.46	*EP
STORE	10633	45409.91	43497.33	912.33	*IG
STORE	10634	45389.30	43500.58	911.54	*IG
STORE	10635	45370.05	43503.86	912.13	*IG
STORE	10636	45350.98	43506.65	914.54	*RE
STORE	10637	45331.65	43510.44	914.77	*RC

STORE	10638	45311.56	43512.87	914.38	*RE
STORE	10639	45299.31	43514.62	913.87	*IG
STORE	10640	45287.17	43516.57	916.36	*TOP
STORE	10641	45279.30	43517.27	911.98	*IT
STORE	10642	45274.01	43518.81	911.73	*IT
STORE	10643	45268.32	43520.12	915.36	*TOP
STORE	10644	45252.64	43521.94	914.20	*IG
STORE	10645	45240.77	43526.01	912.87	*IG
STORE	10646	45203.67	43533.89	912.74	*IG
STORE	10647	45165.02	43540.01	912.67	*IG
STORE	10648	45173.59	43636.50	912.78	*IG
STORE	10649	45210.33	43630.98	912.82	*IG
STORE	10650	45255.71	43621.75	913.06	*IG
STORE	10651	45269.09	43619.27	915.31	*IG
STORE	10652	45283.49	43617.18	915.91	*TOP
STORE	10653	45290.79	43616.36	911.80	*IT
STORE	10654	45295.17	43615.23	911.87	*IT
STORE	10655	45304.50	43613.66	916.75	*TOP
STORE	10656	45314.60	43612.25	914.45	*IG
STORE	10657	45326.42	43611.30	914.62	*RE
STORE	10658	45345.58	43607.83	914.90	*RC
STORE	10659	45365.60	43605.29	914.62	*RE
STORE	10660	45383.48	43602.61	912.36	*IG
STORE	10661	45408.53	43597.88	911.96	*IG
STORE	10662	45425.89	43595.96	912.39	*IG
STORE	10663	45444.51	43592.52	912.27	*IG
STORE	10664	45474.88	43588.15	911.66	*IG
STORE	10665	45482.32	43586.80	912.44	*TOE
STORE	10666	45491.95	43585.90	916.19	*TOP
STORE	10667	45502.27	43584.81	916.82	*NTR
STORE	10668	45509.32	43582.90	916.47	*TOP
STORE	10669	45511.62	43582.38	915.58	*TOE
STORE	10670	45475.45	43642.56	912.94	*EP
STORE	10671	45522.79	43684.28	916.07	*TOE
STORE	10672	45520.54	43684.73	916.66	*TOP
STORE	10673	45516.97	43684.98	917.11	*NTR
STORE	10674	45508.98	43685.69	916.41	*TOP
STORE	10675	45501.68	43685.57	915.38	*IG
STORE	10676	45495.94	43687.18	912.48	*TOE
STORE	10677	45485.49	43688.59	912.00	*IG
STORE	10678	45477.07	43689.99	912.68	*IG
STORE	10679	45459.02	43692.72	912.82	*IG
STORE	10680	45455.10	43693.35	913.32	*IG
STORE	10681	45430.23	43696.55	913.06	*IG
STORE	10682	45419.70	43698.15	912.11	*IG
STORE	10683	45398.29	43700.94	912.49	*IG
STORE	10684	45380.16	43703.60	914.85	*RE
STORE	10685	45360.29	43705.72	915.16	*RC
STORE	10686	45340.69	43708.73	914.88	*RE
STORE	10687	45329.99	43710.14	914.69	*IG
STORE	10688	45319.50	43710.88	916.72	*TOP
STORE	10689	45310.07	43711.96	911.49	*IT
STORE	10690	45306.37	43713.29	911.48	*IT
STORE	10691	45297.66	43713.94	915.91	*TOP
STORE	10692	45280.44	43717.58	915.46	*IG
STORE	10693	45268.74	43718.18	913.19	*IG
STORE	10694	45229.17	43723.13	912.89	*IG
STORE	10695	45187.91	43729.16	912.93	*IG
STORE	10696	45201.14	43828.30	913.01	*IG
STORE	10697	45238.15	43823.59	913.11	*IG
STORE	10698	45284.29	43818.58	913.42	*IG
STORE	10699	45294.54	43817.00	915.42	*IG
STORE	10700	45313.17	43815.33	915.80	*TOP
STORE	10701	45320.53	43814.26	911.99	*IT
STORE	10702	45325.06	43812.82	911.84	*IT
STORE	10703	45333.45	43811.77	916.81	*TOP
STORE	10704	45344.30	43810.23	914.73	*IG
STORE	10705	45355.48	43808.60	915.09	*RE
STORE	10706	45374.69	43805.92	915.36	*RC
STORE	10707	45394.71	43802.35	915.07	*RE
STORE	10708	45413.23	43799.55	912.65	*IG
STORE	10709	45420.56	43797.80	913.36	*IG
STORE	10710	45436.48	43796.58	912.64	*IG
STORE	10711	45455.35	43794.09	913.58	*IG
STORE	10712	45474.18	43790.66	913.34	*IG
STORE	10713	45485.49	43788.95	912.97	*IG
STORE	10714	45499.38	43787.45	912.52	*IG
STORE	10715	45495.12	43778.85	913.11	*EP
STORE	10716	45508.52	43785.98	913.07	*TOE

STORE	10717	45515.71	43785.58	915.72	*IG
STORE	10718	45523.61	43785.60	916.59	*TOP
STORE	10719	45531.41	43783.31	917.34	*NTR
STORE	10720	45534.44	43782.90	916.58	*TOP
STORE	10721	45536.57	43782.40	915.67	*TOE
STORE	10722	45550.46	43879.54	916.08	*TOE
STORE	10723	45547.62	43880.16	916.96	*TOP
STORE	10724	45545.71	43880.48	917.61	*NTR
STORE	10725	45538.27	43881.31	917.04	*TOP
STORE	10726	45533.54	43881.74	916.30	*IG
STORE	10727	45524.45	43882.80	913.11	*TOE
STORE	10728	45513.25	43884.71	912.76	*IG
STORE	10729	45517.58	43931.89	914.25	*EP
STORE	10730	45498.24	43886.81	913.61	*IG
STORE	10731	45471.47	43892.59	913.83	*IG
STORE	10732	45468.63	43892.65	914.18	*IG
STORE	10733	45447.65	43895.23	913.11	*IG
STORE	10734	45438.39	43896.81	913.47	*IG
STORE	10735	45427.21	43898.54	912.93	*IG
STORE	10736	45409.47	43901.64	915.35	*RE
STORE	10737	45388.90	43904.55	915.71	*RC
STORE	10738	45369.51	43907.26	915.30	*RE
STORE	10739	45358.23	43908.87	914.74	*IG
STORE	10740	45347.55	43909.96	916.79	*TOP
STORE	10741	45336.88	43911.43	911.89	*IT
STORE	10742	45332.61	43911.48	912.13	*IT
STORE	10743	45327.05	43910.78	916.30	*TOP
STORE	10744	45309.16	43915.58	915.97	*IG
STORE	10745	45294.77	43917.83	913.27	*IG
STORE	10746	45259.94	43921.07	913.11	*IG
STORE	10747	45220.21	43929.15	913.05	*IG
STORE	10748	45233.97	44028.73	913.12	*IG
STORE	10749	45270.96	44023.38	913.27	*IG
STORE	10750	45310.42	44017.93	913.19	*IG
STORE	10751	45318.25	44017.44	914.57	*IG
STORE	10752	45321.29	44017.30	915.85	*IG
STORE	10753	45342.28	44014.82	916.21	*TOP
STORE	10754	45347.00	44014.11	912.23	*IT
STORE	10755	45350.96	44013.96	912.28	*IT
STORE	10756	45361.60	44010.82	916.76	*TOP
STORE	10757	45374.85	44009.46	914.91	*IG
STORE	10758	45372.57	43999.69	915.34	*RG
STORE	10759	45384.53	44006.59	915.60	*RE
STORE	10760	45403.82	44003.43	915.91	*RC
STORE	10761	45424.06	44000.34	915.48	*RE
STORE	10762	45443.24	43998.04	913.02	*IG
STORE	10763	45444.89	43998.00	913.36	*IG
STORE	10764	45483.06	43992.25	914.65	*IG
STORE	10765	45517.30	43991.07	914.12	*IG
STORE	10766	45529.99	43985.06	913.29	*IG
STORE	10767	45537.96	43984.53	913.69	*TOE
STORE	10768	45544.62	43983.27	916.17	*IG
STORE	10769	45550.43	43983.32	916.24	*IG
STORE	10770	45553.24	43983.71	917.18	*TOP
STORE	10771	45560.87	43983.90	917.88	*NTR
STORE	10772	45564.17	43983.66	917.15	*TOP
STORE	10773	45565.56	43982.42	916.59	*TOE
STORE	10774	45251.63	44124.15	913.25	*IG
STORE	10775	45286.98	44119.20	913.34	*IG
STORE	10776	45324.68	44114.07	913.54	*IG
STORE	10777	45337.91	44112.89	916.35	*IG
STORE	10778	45356.37	44110.34	916.35	*TOP
STORE	10779	45362.69	44109.24	912.32	*IT
STORE	10780	45367.58	44108.52	912.50	*IT
STORE	10781	45376.19	44107.69	917.16	*TOP
STORE	10782	45386.63	44105.82	915.08	*IG
STORE	10783	45398.89	44104.17	915.63	*RE
STORE	10784	45418.12	44101.23	915.97	*RC
STORE	10785	45438.20	44098.63	915.70	*RE
STORE	10786	45455.97	44096.63	913.27	*IG
STORE	10787	45469.14	44094.15	913.89	*IG
STORE	10788	45488.07	44091.80	914.08	*IG
STORE	10789	45497.32	44089.66	914.82	*IG
STORE	10790	45514.18	44087.37	914.55	*IG
STORE	10791	45540.29	44085.56	914.09	*EP
STORE	10792	45544.78	44085.54	913.51	*IG
STORE	10793	45552.50	44084.41	913.91	*TOE
STORE	10794	45558.41	44083.72	916.13	*IG
STORE	10795	45564.88	44082.28	916.54	*IG

STORE	10796	45568.14	44082.28	917.58	*TOP
STORE	10797	45575.29	44081.58	918.21	*NTR
STORE	10798	45578.63	44080.77	917.52	*TOP
STORE	10799	45581.03	44080.45	916.51	*TOE
STORE	10800	45594.54	44174.90	916.98	*TOE
STORE	10801	45591.45	44175.21	917.92	*TOP
STORE	10802	45589.06	44175.49	918.50	*NTR
STORE	10803	45581.48	44176.62	917.86	*TOP
STORE	10804	45578.95	44177.12	916.93	*IG
STORE	10805	45572.59	44178.61	916.63	*IG
STORE	10806	45566.27	44179.28	914.13	*IG
STORE	10807	45555.87	44181.09	913.62	*IG
STORE	10808	45562.96	44240.47	914.07	*EP
STORE	10809	45528.46	44184.92	914.33	*IG
STORE	10810	45545.26	44186.15	913.98	*IG
STORE	10811	45492.61	44190.97	913.67	*IG
STORE	10812	45470.28	44194.99	913.67	*IG
STORE	10813	45452.57	44197.34	915.85	*RE
STORE	10814	45433.16	44200.41	916.16	*RC
STORE	10815	45413.12	44203.33	915.88	*RE
STORE	10816	45400.32	44205.64	915.36	*IG
STORE	10817	45408.30	44250.62	915.95	*RG
STORE	10818	45390.50	44206.69	917.01	*TOP
STORE	10819	45381.30	44208.50	912.63	*IT
STORE	10820	45376.99	44209.19	912.23	*IT
STORE	10821	45372.29	44210.12	916.50	*TOP
STORE	10822	45355.66	44212.35	916.73	*IG
STORE	10823	45348.35	44213.76	915.21	*IG
STORE	10824	45339.96	44214.63	913.67	*IG
STORE	10825	45300.75	44220.32	913.36	*IG
STORE	10826	45257.29	44226.16	913.40	*IG
STORE	10827	45271.28	44324.96	913.47	*IG
STORE	10828	45315.98	44317.83	913.54	*IG
STORE	10829	45354.62	44312.97	913.78	*IG
STORE	10830	45362.72	44311.65	915.52	*IG
STORE	10831	45371.23	44310.38	916.77	*IG
STORE	10832	45385.96	44308.55	916.52	*TOP
STORE	10833	45390.59	44307.74	912.79	*IT
STORE	10834	45395.55	44306.69	912.67	*IT
STORE	10835	45404.68	44306.06	917.00	*TOP
STORE	10836	45414.74	44304.58	915.49	*IG
STORE	10837	45427.72	44302.24	916.04	*RE
STORE	10838	45448.05	44299.31	916.38	*RC
STORE	10839	45467.54	44296.44	916.07	*RE
STORE	10840	45485.85	44294.49	914.22	*IG
STORE	10841	45528.86	44289.59	914.98	*IG
STORE	10842	45560.50	44285.60	915.18	*IG
STORE	10843	45570.16	44284.30	914.54	*IG
STORE	10844	45582.63	44283.08	914.81	*IG
STORE	10845	45588.64	44282.90	916.75	*IG
STORE	10846	45592.44	44281.84	917.02	*IG
STORE	10847	45596.83	44281.17	918.18	*TOP
STORE	10848	45604.36	44279.85	918.85	*NTR
STORE	10849	45607.80	44279.58	918.08	*TOP
STORE	10850	45611.35	44279.35	917.10	*TOE
STORE	10851	45635.20	44375.45	913.83	*INV 36IN CMP
STORE	10852	45635.80	44379.98	913.37	*INV 36IN CMP
STORE	10853	45595.67	44384.78	913.33	*INV 36IN CMP
STORE	10854	45595.10	44380.89	913.21	*INV 36IN CMP
STORE	10855	45582.01	44367.18	917.31	*EP
STORE	10856	45547.16	44342.62	916.51	*FO
STORE	10857	45530.96	44338.28	916.00	*GL
STORE	10858	45523.37	44338.81	915.84	*GL
STORE	10859	45483.34	44320.94	915.34	*RG
STORE	10860	45532.95	44374.98	917.05	*TOE
STORE	10861	45533.56	44378.67	917.51	*TOP
STORE	10862	45535.47	44382.37	913.43	*IT
STORE	10863	45484.92	44384.96	914.33	*IW
STORE	10864	45482.03	44386.43	916.18	*RG
STORE	10865	45482.57	44387.60	916.78	*IH
STORE	10866	45484.64	44401.20	916.80	*IH
STORE	10867	45484.29	44402.66	916.16	*RG
STORE	10868	45487.67	44402.94	914.34	*IW
STORE	10869	45539.13	44401.53	916.91	*TOE
STORE	10870	45539.82	44398.96	916.66	*TOP
STORE	10871	45539.66	44395.17	913.96	*IT
STORE	10872	45541.67	44412.59	917.37	*GL
STORE	10873	45534.10	44413.32	917.30	*GL
STORE	10874	45597.35	44395.41	917.50	*TOE

STORE	10875	45596.95	44391.61	918.07	*TOP
STORE	10876	45595.94	44386.46	913.84	*IT
STORE	10877	45594.17	44380.00	914.09	*IT
STORE	10878	45594.21	44374.66	918.71	*TOP
STORE	10879	45593.07	44364.70	917.31	*TOE
STORE	10880	45484.35	44394.28	912.28	*INV BOX CULVERT
STORE	10881	45462.81	44397.49	916.94	*RC
STORE	10882	45434.19	44392.12	914.44	*IW
STORE	10883	45437.53	44394.30	916.88	*IH
STORE	10884	45437.75	44393.12	916.21	*RG
STORE	10885	45437.51	44400.15	912.13	*INV BOX CULVERT
STORE	10886	45439.21	44407.85	916.86	*IH
STORE	10887	45439.54	44409.45	916.40	*RG
STORE	10888	45437.34	44410.13	914.81	*IW
STORE	10889	45422.10	44413.11	917.22	*TOP
STORE	10890	45415.32	44406.70	912.83	*IT
STORE	10891	45413.63	44401.68	913.11	*IT
STORE	10892	45418.30	44393.26	918.14	*TOP
STORE	10893	45428.20	44500.30	913.29	*IT
STORE	10894	45434.49	44498.97	917.56	*TOP
STORE	10895	45444.59	44497.48	916.33	*IG
STORE	10896	45456.16	44495.66	916.96	*RE
STORE	10897	45468.41	44461.94	917.72	*RC
STORE	10898	45495.81	44489.58	916.93	*RE
STORE	10899	45511.25	44487.96	915.57	*IG
STORE	10900	45519.60	44488.00	916.20	*IG
STORE	10901	45571.97	44478.42	916.24	*IG
STORE	10902	45615.93	44469.35	916.08	*TOE
STORE	10903	45623.96	44469.49	918.89	*TOP
STORE	10904	45632.08	44468.26	919.65	*NTR
STORE	10905	45635.35	44468.29	918.99	*TOP
STORE	10906	45638.01	44467.82	918.48	*TOE
STORE	10907	45614.88	44442.63	917.60	*RG
STORE	10908	45609.83	44442.74	916.96	*RG
STORE	10909	45562.95	44447.80	917.47	*FO
STORE	10910	45605.90	44528.38	915.18	*EP
STORE	10911	45405.94	44408.94	912.88	*IT
STORE	10912	45399.99	44410.52	917.48	*TOP
STORE	10913	45379.54	44411.67	915.79	*IG
STORE	10914	45371.42	44413.24	914.10	*IG
STORE	10915	45342.03	44417.78	913.66	*IG
STORE	10916	45287.09	44423.44	913.63	*IG
STORE	10917	45300.04	44520.48	913.66	*IG
STORE	10918	45355.74	44510.61	913.71	*IG
STORE	10919	45385.98	44507.67	914.05	*IG
STORE	10920	45393.90	44506.86	915.72	*IG
STORE	10921	45415.81	44502.22	916.25	*TOP
STORE	10922	45421.28	44501.68	913.44	*IT
STORE	10923	45434.21	44600.22	913.45	*TOE
STORE	10924	45429.48	44600.85	916.36	*TOP
STORE	10925	45408.97	44603.29	915.38	*IG
STORE	10926	45401.05	44604.15	913.98	*IG
STORE	10927	45374.12	44610.95	913.70	*IG
STORE	10928	45315.89	44615.53	913.80	*IG
STORE	10929	45442.40	44598.86	913.23	*IT
STORE	10930	45449.05	44596.91	917.97	*TOP
STORE	10931	45458.64	44596.05	916.76	*IG
STORE	10932	45470.68	44594.93	917.46	*RE
STORE	10933	45490.13	44592.59	917.73	*RC
STORE	10934	45510.31	44589.24	917.34	*RE
STORE	10935	45527.91	44587.67	915.36	*IG
STORE	10936	45572.46	44582.23	915.38	*IG
STORE	10937	45613.49	44576.27	915.10	*IG
STORE	10938	45626.56	44574.31	915.48	*TOE
STORE	10939	45633.58	44572.90	918.20	*IG
STORE	10940	45639.23	44571.92	919.32	*TOP
STORE	10941	45647.09	44570.94	920.03	*NTR
STORE	10942	45650.61	44571.00	919.27	*TOP
STORE	10943	45652.48	44570.39	919.05	*TOE
STORE	10944	45666.93	44668.60	919.46	*TOE
STORE	10945	45664.25	44669.06	919.91	*TOP
STORE	10946	45661.64	44669.12	920.44	*NTR
STORE	10947	45650.94	44670.67	919.56	*TOP
STORE	10948	45646.27	44671.48	917.05	*TOE
STORE	10949	45595.77	44677.23	916.23	*IG
STORE	10950	45583.42	44679.48	916.57	*IG
STORE	10951	45549.23	44679.87	915.37	*IG
STORE	10952	45538.12	44678.80	915.80	*IG
STORE	10953	45524.83	44688.45	917.80	*RE

STORE	10954	45504.85	44691.92	918.14	*RC
STORE	10955	45479.11	44695.87	917.63	*RE
STORE	10956	45448.44	44702.27	916.43	*IG
STORE	10957	45405.21	44707.35	916.60	*IG
STORE	10958	45363.94	44706.73	917.30	*IG
STORE	10959	45476.16	44678.40	917.34	*RG
STORE	10960	45555.54	44549.02	915.96	*GL
STORE	10961	45561.47	44548.32	916.15	*GL
STORE	10962	45685.07	44641.85	920.44	*IG
STORE	10963	45694.97	44695.99	921.29	*EP
STORE	10964	45691.52	44720.57	920.51	*RG
STORE	10965	45684.62	44715.31	920.53	*RG
STORE	10966	45682.53	44715.71	920.46	*RAILROAD SIGN
STORE	10967	45691.10	44722.80	920.72	*RE
STORE	10968	45691.55	44738.68	921.00	*RC
STORE	10969	45692.05	44751.08	920.85	*RE
STORE	10970	45698.05	44835.63	919.88	*IG
STORE	10971	45660.45	44775.02	919.59	*EB
STORE	10972	45655.59	44761.39	919.95	*RAILROAD SIGN
STORE	10973	45653.92	44762.07	919.88	*RG
STORE	10974	45643.95	44709.08	919.55	*EF
STORE	10975	45642.90	44701.81	919.43	*EF
STORE	10976	45628.60	44686.94	917.28	*FO
STORE	10977	45628.63	44684.80	917.26	*EP
STORE	10978	45591.14	44635.96	915.66	*IG
STORE	10979	45598.42	44713.98	916.93	*IG
STORE	10980	45593.20	44712.42	917.48	*SM
STORE	10981	45588.00	44700.14	916.13	*GL
STORE	10982	45600.09	44718.13	918.78	*IG
STORE	10983	45600.95	44728.62	918.98	*RE
STORE	10984	45601.60	44742.70	919.26	*RC
STORE	10985	45602.88	44756.30	918.76	*RE
STORE	10986	45603.27	44766.75	918.43	*IG
STORE	10987	45605.67	44783.11	916.60	*IG
STORE	10988	45617.91	44850.16	917.15	*IG
STORE	10989	45597.18	44773.30	917.49	*GL
STORE	10990	45588.05	44773.55	917.49	*GL
STORE	10991	45584.79	44769.80	918.24	*RG
STORE	10992	45575.03	44774.12	917.97	*RG
STORE	10993	45573.98	44758.59	918.26	*REPC
STORE	10994	45554.79	44769.03	917.96	*MOC
STORE	10995	45542.63	44808.04	918.20	*REPT
STORE	10996	45545.97	44784.73	917.90	*MOC
STORE	10997	45548.09	44799.42	917.65	*RG
STORE	10998	45554.10	44791.48	916.52	*RG
STORE	10999	45549.76	44787.25	917.52	*RG
STORE	11000	45553.06	44779.03	916.80	*RG
STORE	11001	45558.56	44773.49	917.47	*RG
STORE	11002	45554.66	44785.13	916.65	*IH
STORE	11003	45554.17	44780.59	916.60	*IH
STORE	11004	45558.65	44779.99	916.67	*IH
STORE	11005	45557.29	44781.03	913.77	*INV24INCONCPIPE
STORE	11006	45572.38	44729.31	918.25	*RE
STORE	11007	45553.90	44728.83	917.95	*PC
STORE	11008	45535.60	44717.79	917.49	*MOC
STORE	11009	45525.21	44694.74	917.87	*REPC
STORE	11010	45539.13	44705.02	916.97	*RG
STORE	11011	45546.34	44710.26	916.00	*IH
STORE	11012	45547.18	44715.41	915.99	*IH
STORE	11013	45550.14	44714.10	912.93	*INV24INCONCPIPE
STORE	11014	45553.98	44713.99	916.02	*IH
STORE	11015	45555.68	44717.23	917.51	*RG
STORE	11016	45552.06	44723.48	917.95	*RG
STORE	11017	45513.07	44745.97	918.36	*RP
STORE	11018	45482.28	44673.43	917.75	*REPC
STORE	11019	45478.67	44697.69	917.63	*MOC
STORE	11020	45468.28	44717.43	917.54	*MOC
STORE	11021	45450.05	44721.59	917.33	*REPT
STORE	11022	45443.63	44736.67	917.59	*RH
STORE	11023	45443.47	44741.22	917.60	*RH
STORE	11024	45452.69	44708.21	916.67	*BEG GUARD RAIL
STORE	11025	45421.67	44712.23	916.22	*GUARD RAIL
STORE	11026	45420.43	44703.03	916.14	*IH
STORE	11027	45415.53	44701.21	915.99	*IH
STORE	11028	45418.46	44701.44	913.06	*INV18INCONCPIPE
STORE	11029	45456.11	44746.53	917.64	*WV
STORE	11030	45458.66	44766.80	916.42	*RG
STORE	11031	45457.86	44773.81	915.51	*WF
STORE	11032	45465.43	44761.30	917.50	*REPC

STORE	11033	45485.06	44766.25	917.73	*MOC
STORE	11034	45498.69	44790.15	918.05	*REPT
STORE	11035	45477.16	44777.47	917.19	*RG
STORE	11036	45472.60	44774.28	916.39	*EPES
STORE	11037	45399.17	44790.39	915.24	*RG
STORE	11038	45399.72	44799.19	916.61	*FT CONC
STORE	11039	45398.06	44797.60	916.62	*FT CONC
STORE	11040	45398.07	44792.99	916.62	*FA.CONC
STORE	11041	45395.43	44793.76	913.35	*INV18INCONCPIPE
STORE	11042	45369.69	44865.32	915.88	*IG
STORE	11043	45367.86	44824.37	916.44	*IG
STORE	11044	45367.91	44816.01	915.72	*IG
STORE	11045	45367.64	44804.41	916.09	*IG
STORE	11046	45368.07	44797.40	914.41	*IG
STORE	11047	45366.68	44793.59	914.63	*IG
STORE	11048	45366.63	44793.19	916.58	*FT CONC
STORE	11049	45366.93	44792.78	915.21	*IG
STORE	11050	45365.48	44780.72	914.98	*IG
STORE	11051	45368.41	44768.83	915.70	*TM
STORE	11052	45365.09	44761.61	915.95	*RE
STORE	11053	45365.14	44741.25	916.53	*RH
STORE	11054	45365.13	44740.77	917.04	*RB
STORE	11055	45365.16	44735.64	916.92	*RB
STORE	11056	45365.27	44735.12	916.42	*RH
STORE	11057	45365.12	44720.67	916.06	*RE
STORE	11058	45364.43	44713.12	915.68	*GUARD RAIL IG
STORE	11059	45364.97	44710.76	917.10	*TOP
STORE	11060	45364.84	44704.10	917.00	*TOP
STORE	11061	45365.20	44697.48	913.36	*IT
STORE	11062	45365.15	44690.73	913.33	*IT
STORE	11063	45365.58	44685.80	916.23	*TOP
STORE	11064	45364.88	44677.42	916.12	*TOP
STORE	11065	45364.96	44673.73	912.83	*IT
STORE	11066	45365.03	44672.08	912.80	*IT
STORE	11067	45364.98	44670.02	914.52	*TOP
STORE	11068	45364.54	44664.84	914.12	*IG
STORE	11069	45358.34	44622.66	913.76	*IG
STORE	11070	45403.29	44670.31	914.63	*BEG TOP
STORE	11071	45402.98	44671.95	913.09	*BEG TOE
STORE	11072	45402.93	44673.80	913.00	*BEG TOE
STORE	11073	45404.12	44678.67	916.03	*BEG TOP
STORE	11074	45439.02	44665.95	916.96	*TOP
STORE	11075	45418.04	44684.51	916.01	*TOP
STORE	11076	45420.80	44688.75	913.32	*TOE
STORE	11077	45444.81	44668.34	913.41	*TOE
STORE	11078	45452.36	44671.83	913.34	*TOE
STORE	11079	45458.86	44673.65	917.15	*TOP
STORE	11080	45425.77	44694.98	913.16	*TOE
STORE	11081	45432.38	44701.04	917.37	*TOP
STORE	11082	45647.29	44814.10	916.35	*FO
STORE	11083	45651.42	44838.69	916.74	*EP
STORE	11084	45697.44	44869.17	919.63	*TOE
STORE	11085	45693.74	44869.91	920.45	*TOP
STORE	11086	45691.10	44870.15	921.19	*NTR
STORE	11087	45682.76	44871.47	920.48	*TOP
STORE	11088	45675.10	44872.23	919.10	*IG
STORE	11089	45668.34	44874.25	916.77	*TOE
STORE	11090	45627.80	44881.27	917.18	*IG
STORE	11091	45608.90	44884.55	917.45	*IG
STORE	11092	45604.16	44884.69	917.91	*IG
STORE	11093	45597.41	44885.16	917.49	*IG
STORE	11094	45571.44	44886.52	917.18	*IG
STORE	11095	45554.06	44889.17	918.65	*RE
STORE	11096	45534.85	44891.58	918.91	*RC
STORE	11097	45513.98	44894.92	918.56	*RE
STORE	11098	45498.80	44897.01	916.28	*IG
STORE	11099	45440.03	44901.14	915.92	*IG
STORE	11100	45415.32	44901.77	915.79	*TOP
STORE	11101	45411.57	44902.28	915.10	*TOE
STORE	11102	45423.15	45010.17	916.49	*IG
STORE	11103	45456.30	45005.35	916.13	*IG
STORE	11104	45498.56	45000.83	916.31	*IG
STORE	11105	45512.78	44998.54	916.17	*IG
STORE	11106	45528.93	44995.09	918.88	*RE
STORE	11107	45548.95	44992.03	919.30	*RC
STORE	11108	45569.05	44988.65	919.03	*RE
STORE	11109	45584.66	44986.20	917.37	*IG
STORE	11110	45601.12	44983.97	917.60	*IG
STORE	11111	45626.29	44980.16	918.27	*IG

STORE	11112	45630.73	44980.38	918.66	*IG
STORE	11113	45637.01	44980.36	918.15	*IG
STORE	11114	45670.33	44974.35	918.41	*IG
STORE	11115	45682.44	44973.54	917.94	*TOE
STORE	11116	45691.29	44970.49	921.05	*TOP
STORE	11117	45705.71	44969.77	921.62	*NTR
STORE	11118	45710.56	44969.35	920.88	*TOP
STORE	11119	45714.92	44968.82	920.54	*TOE
STORE	11120	45726.37	45062.34	921.47	*IG
STORE	11121	45722.27	45064.49	921.52	*TOP
STORE	11122	45719.64	45064.78	922.07	*NTR
STORE	11123	45711.32	45066.04	921.34	*TOP
STORE	11124	45696.90	45068.27	918.79	*TOE
STORE	11125	45646.46	45076.90	918.49	*IG
STORE	11126	45601.89	45084.39	917.34	*IG
STORE	11127	45583.45	45087.80	919.49	*RE
STORE	11128	45563.83	45091.24	919.72	*RC
STORE	11129	45543.72	45094.96	919.39	*RE
STORE	11130	45525.10	45097.14	916.78	*IG
STORE	11131	45519.88	45098.70	917.63	*IG
STORE	11132	45488.52	45105.46	916.40	*IG
STORE	11133	45464.43	45108.82	917.18	*IG
STORE	11134	45435.66	45114.81	917.74	*TOP
STORE	11135	45430.47	45115.70	916.14	*TOE
STORE	11136	45408.58	45117.59	915.80	*IG
STORE	11137	45422.70	45221.45	915.65	*IG
STORE	11138	45469.80	45211.48	916.17	*IG
STORE	11139	45508.66	45202.72	916.37	*IG
STORE	11140	45540.26	45195.86	917.22	*IG
STORE	11141	45557.95	45193.62	919.81	*RE
STORE	11142	45577.95	45189.78	920.18	*RC
STORE	11143	45597.48	45186.74	919.89	*RE
STORE	11144	45616.05	45184.34	917.72	*IG
STORE	11145	45659.63	45178.70	919.07	*IG
STORE	11146	45711.54	45162.78	919.07	*TOE
STORE	11147	45718.61	45164.70	921.39	*TOP
STORE	11148	45733.80	45161.30	922.45	*NTR
STORE	11149	45742.85	45159.69	921.76	*TOP
STORE	11150	45709.59	45242.24	919.30	*EP
STORE	11151	45617.87	45251.42	919.41	*RG
STORE	11152	45557.95	45260.17	919.40	*RG
STORE	11153	45438.50	45316.11	916.28	*IG
STORE	11154	45490.30	45306.35	916.48	*IG
STORE	11155	45536.11	45299.52	915.93	*IG
STORE	11156	45553.91	45294.49	917.23	*IG
STORE	11157	45572.64	45291.82	920.26	*RE
STORE	11158	45592.46	45289.24	920.60	*RC
STORE	11159	45612.01	45285.79	920.33	*RE
STORE	11160	45632.81	45282.83	917.80	*IG
STORE	11161	45642.08	45280.48	918.83	*IG
STORE	11162	45669.27	45277.75	919.37	*IG
STORE	11163	45719.27	45268.30	918.97	*TOE
STORE	11164	45727.34	45267.34	921.91	*TOP
STORE	11165	45748.92	45264.20	923.01	*NTR
STORE	11166	45752.58	45263.32	922.44	*TOP
STORE	11167	45757.60	45262.68	921.96	*TOE
STORE	11168	45770.22	45361.09	922.58	*TOE
STORE	11169	45766.57	45361.58	922.84	*TOP
STORE	11170	45763.32	45362.03	923.41	*NTR
STORE	11171	45750.19	45364.22	922.23	*TOP
STORE	11172	45741.62	45365.32	920.07	*TOE
STORE	11173	45725.35	45345.22	919.87	*EP
STORE	11174	45726.45	45355.91	920.37	*EG
STORE	11175	45689.45	45375.08	920.20	*IG
STORE	11176	45658.66	45379.33	918.99	*IG
STORE	11177	45644.97	45381.07	918.32	*IG
STORE	11178	45626.51	45384.33	920.66	*RE
STORE	11179	45606.66	45387.25	920.87	*RC
STORE	11180	45587.15	45390.44	920.45	*RE
STORE	11181	45567.94	45393.19	917.12	*IG
STORE	11182	45523.72	45399.19	916.77	*IG
STORE	11183	45433.65	45412.40	916.98	*IG
STORE	11184	45451.04	45517.90	917.62	*IG
STORE	11185	45514.50	45505.86	917.30	*IG
STORE	11186	45578.58	45495.22	917.16	*IG
STORE	11187	45601.62	45490.75	920.84	*RE
STORE	11188	45621.34	45487.79	921.17	*RC
STORE	11189	45641.17	45484.37	920.92	*RE
STORE	11190	45657.87	45482.32	918.30	*IG

STORE	11191	45658.61	45509.08	918.69	*RG
STORE	11192	45674.42	45478.74	918.83	*IG
STORE	11193	45702.75	45473.44	920.51	*IG
STORE	11194	45740.25	45466.27	920.86	*IG
STORE	11195	45745.54	45465.58	920.15	*IG
STORE	11196	45753.39	45464.24	920.62	*TOE
STORE	11197	45738.55	45436.63	920.50	*EP
STORE	11198	45767.36	45461.65	921.81	*IG
STORE	11199	45770.68	45460.73	923.15	*TOP
STORE	11200	45777.63	45459.82	923.85	*NTR
STORE	11201	45781.28	45458.49	923.35	*TOP
STORE	11202	45783.14	45458.06	922.77	*TOE
STORE	11203	45799.08	45562.31	923.45	*TOE
STORE	11204	45795.64	45563.29	923.72	*TOP
STORE	11205	45792.82	45563.68	924.29	*NTR
STORE	11206	45784.86	45564.45	923.61	*TOP
STORE	11207	45780.78	45565.18	922.22	*IG
STORE	11208	45769.89	45566.64	920.87	*TOE
STORE	11209	45757.33	45570.38	920.50	*EP
STORE	11210	45717.58	45576.19	919.90	*IG
STORE	11211	45676.93	45581.51	918.29	*IG
STORE	11212	45655.88	45585.22	921.26	*RE
STORE	11213	45636.02	45588.50	921.51	*RC
STORE	11214	45616.28	45591.35	921.29	*RE
STORE	11215	45584.07	45594.95	917.15	*IG
STORE	11216	45538.43	45599.13	917.29	*IG
STORE	11217	45482.60	45607.33	918.07	*IG
STORE	11218	45813.25	45662.95	923.28	*TOE
STORE	11219	45810.37	45663.65	924.13	*TOP
STORE	11220	45807.68	45664.53	924.65	*NTR
STORE	11221	45799.80	45665.83	923.94	*TOP
STORE	11222	45796.54	45668.03	922.41	*IG
STORE	11223	45782.60	45669.88	920.32	*TOE
STORE	11224	45773.90	45671.21	920.07	*IG
STORE	11225	45767.56	45672.90	920.69	*IG
STORE	11226	45732.60	45676.50	920.23	*IG
STORE	11227	45711.39	45679.15	918.18	*IG
STORE	11228	45697.56	45680.86	918.39	*IG
STORE	11229	45681.20	45691.92	920.47	*RG
STORE	11230	45677.57	45692.38	920.92	*RG
STORE	11231	45670.60	45684.67	921.60	*RE
STORE	11232	45650.60	45687.74	921.84	*RC
STORE	11233	45631.32	45690.58	921.57	*RE
STORE	11234	45606.50	45693.70	918.14	*IG
STORE	11235	45559.16	45701.30	917.46	*IG
STORE	11236	45502.48	45708.24	917.88	*IG
STORE	11237	45516.24	45808.47	917.91	*IG
STORE	11238	45568.99	45801.07	917.79	*IG
STORE	11239	45620.84	45794.07	918.56	*IG
STORE	11240	45645.84	45790.30	921.65	*RE
STORE	11241	45665.10	45787.73	921.97	*RC
STORE	11242	45684.53	45784.62	921.69	*RE
STORE	11243	45705.70	45781.13	918.99	*IG
STORE	11244	45712.57	45779.48	919.07	*IG
STORE	11245	45746.00	45773.60	921.37	*IG
STORE	11246	45783.60	45772.31	921.45	*IG
STORE	11247	45790.32	45771.07	920.53	*IG
STORE	11248	45800.86	45770.09	921.27	*TOE
STORE	11249	45811.69	45768.71	923.15	*IG
STORE	11250	45815.63	45768.59	924.36	*TOP
STORE	11251	45822.94	45768.43	925.06	*NTR
STORE	11252	45825.32	45768.14	924.37	*TOP
STORE	11253	45828.64	45767.88	923.06	*TOE
STORE	11254	45795.59	45800.49	920.69	*FO
STORE	11255	45843.75	45865.11	923.45	*TOE
STORE	11256	45840.83	45865.60	924.65	*TOP
STORE	11257	45837.35	45866.34	925.37	*NTR
STORE	11258	45829.35	45867.22	924.69	*TOP
STORE	11259	45827.26	45867.14	923.91	*IG
STORE	11260	45812.76	45868.17	921.50	*TOE
STORE	11261	45804.21	45869.06	921.01	*IG
STORE	11262	45800.65	45869.88	921.66	*IG
STORE	11263	45803.55	45878.70	921.92	*EP
STORE	11264	45769.51	45872.72	921.22	*IG
STORE	11265	45759.30	45874.85	921.92	*IG
STORE	11266	45727.58	45880.30	919.63	*IG
STORE	11267	45721.58	45880.76	919.47	*IG
STORE	11268	45699.85	45884.90	922.21	*RE
STORE	11269	45680.05	45887.67	922.35	*RC

STORE	11270	45662.54	45890.07	922.12	*RE
STORE	11271	45658.14	45923.62	922.08	*RG
STORE	11272	45647.89	45939.42	920.46	*RG
STORE	11273	45634.47	45892.92	919.45	*IG
STORE	11274	45604.98	45897.53	918.09	*IG
STORE	11275	45565.87	45901.26	917.79	*IG
STORE	11276	45551.53	45902.48	918.03	*IG
STORE	11277	45518.03	45906.37	918.34	*IG
STORE	11278	45531.35	46011.48	918.52	*IG
STORE	11279	45590.02	46003.44	918.60	*IG
STORE	11280	45593.26	46003.04	918.09	*IG
STORE	11281	45606.90	46001.04	917.98	*IG
STORE	11282	45611.04	46000.45	918.31	*IG
STORE	11283	45649.31	45993.37	918.98	*IG
STORE	11284	45675.27	45989.85	922.18	*RE
STORE	11285	45694.33	45987.07	922.54	*RC
STORE	11286	45714.69	45984.18	922.36	*RE
STORE	11287	45734.10	45981.08	919.99	*IG
STORE	11288	45774.07	45976.02	921.98	*IG
STORE	11289	45783.64	45974.43	921.33	*IG
STORE	11290	45812.19	45969.50	921.61	*IG
STORE	11291	45820.78	45968.48	921.23	*IG
STORE	11292	45828.86	45967.08	921.74	*TOE
STORE	11293	45843.29	45964.61	924.86	*TOP
STORE	11294	45851.70	45963.91	925.64	*NTR
STORE	11295	45855.16	45963.20	924.96	*TOP
STORE	11296	45858.68	45962.69	923.69	*TOE
STORE	11297	45826.08	46032.23	921.94	*EP
STORE	11298	45872.74	46064.89	924.35	*TOE
STORE	11299	45869.11	46066.18	925.34	*TOP
STORE	11300	45866.76	46066.38	925.94	*NTR
STORE	11301	45859.58	46067.19	925.35	*TOP
STORE	11302	45843.69	46068.78	922.26	*TOE
STORE	11303	45831.44	46070.54	921.50	*IG
STORE	11304	45825.48	46071.35	921.85	*IG
STORE	11305	45784.19	46075.37	921.63	*IG
STORE	11306	45790.12	46096.69	921.41	*GL
STORE	11307	45782.39	46097.73	921.14	*GL
STORE	11308	45749.03	46080.91	920.23	*IG
STORE	11309	45729.31	46083.14	922.43	*RE
STORE	11310	45709.00	46085.31	922.76	*RC
STORE	11311	45689.88	46088.63	922.48	*RE
STORE	11312	45671.13	46090.98	919.73	*IG
STORE	11313	45639.60	46095.90	918.41	*IG
STORE	11314	45625.31	46097.82	918.55	*IG
STORE	11315	45612.79	46099.03	919.06	*IG
STORE	11316	45577.31	46102.89	919.17	*IG
STORE	11317	45549.68	46108.08	918.86	*IG
STORE	11318	45579.61	46210.21	919.74	*IG
STORE	11319	45627.15	46205.56	919.58	*IG
STORE	11320	45654.90	46201.05	918.47	*IG
STORE	11321	45664.03	46199.96	918.84	*IG
STORE	11322	45685.31	46192.88	920.03	*IG
STORE	11323	45704.25	46187.91	922.49	*RE
STORE	11324	45723.53	46185.43	922.76	*RC
STORE	11325	45743.68	46182.30	922.46	*RE
STORE	11326	45762.92	46179.63	921.21	*IG
STORE	11327	45775.69	46175.70	921.76	*IG
STORE	11328	45788.95	46173.66	921.06	*IG
STORE	11329	45804.98	46172.48	921.65	*IG
STORE	11330	45825.16	46170.46	920.88	*IG
STORE	11331	45845.95	46172.40	921.62	*EP
STORE	11332	45858.18	46167.25	922.01	*TOE
STORE	11333	45873.58	46164.58	925.70	*TOP
STORE	11334	45881.11	46164.41	926.36	*NTR
STORE	11335	45883.69	46163.81	925.84	*TOP
STORE	11336	45888.96	46162.82	924.71	*TOE
STORE	11337	45901.63	46260.57	925.04	*TOE
STORE	11338	45898.12	46261.35	926.19	*TOP
STORE	11339	45895.50	46261.50	926.77	*NTR
STORE	11340	45888.10	46262.67	926.25	*TOP
STORE	11341	45870.45	46264.93	921.32	*TOE
STORE	11342	45837.26	46271.71	920.60	*IG
STORE	11343	45819.36	46273.90	921.55	*IG
STORE	11344	45814.79	46274.41	921.16	*IG
STORE	11345	45776.94	46278.93	921.27	*IG
STORE	11346	45758.15	46281.22	922.42	*RE
STORE	11347	45738.07	46284.20	922.66	*RC
STORE	11348	45718.69	46286.30	922.40	*RE

STORE	11349	45699.00	46288.88	920.15	*IG
STORE	11350	45690.59	46289.99	919.18	*IG
STORE	11351	45681.47	46291.68	918.67	*IG
STORE	11352	45658.02	46294.31	919.89	*IG
STORE	11353	45609.72	46300.90	920.55	*IG
STORE	11354	45916.07	46356.68	925.39	*TOE
STORE	11355	45912.25	46357.26	926.57	*TOP
STORE	11356	45909.59	46357.63	927.21	*NTR
STORE	11357	45901.97	46358.33	926.64	*TOP
STORE	11358	45884.29	46360.92	921.20	*TOE
STORE	11359	45869.29	46324.44	920.94	*EP
STORE	11360	45845.58	46366.32	921.34	*IG
STORE	11361	45837.87	46367.28	921.92	*IG
STORE	11362	45797.99	46375.18	922.13	*IG
STORE	11363	45789.18	46376.80	921.81	*IG
STORE	11364	45772.86	46379.90	922.48	*RE
STORE	11365	45752.63	46383.49	922.84	*RC
STORE	11366	45733.76	46386.96	922.66	*RE
STORE	11367	45708.79	46390.26	920.01	*IG
STORE	11368	45711.17	46408.38	919.90	*FD 1/2IN REBAR
STORE	11369	45689.20	46394.94	920.14	*IG
STORE	11370	45658.09	46398.26	919.92	*IG
STORE	11371	45646.37	46400.34	920.47	*IG
STORE	11372	45623.94	46402.83	920.94	*IG
STORE	11373	45625.92	46477.42	920.40	*TOP
STORE	11374	45625.65	46482.19	916.34	*IT
STORE	11375	45625.82	46486.13	916.74	*IT
STORE	11376	45626.30	46491.02	920.52	*TOP
STORE	11377	45726.10	46513.80	922.11	*TOP
STORE	11378	45727.38	46508.38	916.82	*IT
STORE	11379	45728.00	46504.89	916.84	*IT
STORE	11380	45728.80	46501.98	921.81	*TOP
STORE	11381	45739.28	46456.76	923.13	*RG
STORE	11382	45743.17	46480.06	922.86	*RG
STORE	11383	45746.69	46503.91	923.04	*RG
STORE	11384	45748.46	46511.26	923.16	*RG
STORE	11385	45746.23	46511.93	923.00	*IH
STORE	11386	45742.89	46513.16	920.87	*IW
STORE	11387	45745.30	46505.72	923.05	*IH
STORE	11388	45741.41	46505.27	920.64	*IW
STORE	11389	45745.10	46508.76	916.45	*INV BOX CULVERT
STORE	11390	45793.41	46501.31	916.50	*INV BOX CULVERT
STORE	11391	45751.24	46507.82	923.06	*RE
STORE	11392	45770.66	46504.98	922.91	*RC
STORE	11393	45789.56	46501.94	922.55	*RE
STORE	11394	45792.83	46504.85	923.29	*IH
STORE	11395	45795.86	46505.13	921.19	*IW
STORE	11396	45793.21	46508.21	922.61	*RG
STORE	11397	45792.15	46498.93	923.24	*IH
STORE	11398	45795.33	46497.56	920.77	*IW
STORE	11399	45844.18	46453.74	922.94	*GL
STORE	11400	45851.29	46453.03	922.60	*GL
STORE	11401	45860.55	46483.77	923.17	*TOP
STORE	11402	45862.61	46492.10	917.76	*IT
STORE	11403	45863.87	46497.44	916.96	*IT
STORE	11404	45886.36	46448.72	923.73	*FO
STORE	11405	45889.86	46463.18	924.36	*EP
STORE	11406	45908.82	46474.10	924.65	*TOP
STORE	11407	45910.12	46482.54	918.47	*IT
STORE	11408	45911.44	46485.84	918.47	*IT
STORE	11409	45912.70	46498.04	925.95	*TOP
STORE	11410	45918.60	46490.59	926.79	*TOP RR BRIDGE
STORE	11411	45933.45	46488.26	926.85	*TOP RR BRIDGE
STORE	11412	45931.28	46473.23	926.78	*TOP RR BRIDGE
STORE	11413	45916.43	46475.37	926.85	*TOP RR BRIDGE
STORE	11414	45927.68	46481.00	927.88	*NTR
STORE	11415	45898.18	46530.48	924.30	*FO
STORE	11416	45799.40	46535.24	922.35	*RG
STORE	11417	45804.12	46559.98	922.39	*RG
STORE	11418	45811.97	46609.04	922.38	*RG
STORE	11419	45735.51	46552.04	920.17	*TT
STORE	11420	45630.54	46594.16	920.89	*IG
STORE	11421	45750.27	46577.59	923.11	*IG
STORE	11422	45762.24	46575.74	923.42	*RE
STORE	11423	45780.98	46572.71	922.96	*RC
STORE	11424	45801.43	46569.13	922.21	*RE
STORE	11425	45818.05	46567.04	921.70	*IG
STORE	11426	45820.67	46567.06	922.11	*IG
STORE	11427	45840.18	46562.68	921.41	*IG

STORE	11428	45868.45	46557.51	922.65	*IG
STORE	11429	45917.19	46549.35	923.65	*TOE
STORE	11430	45926.98	46548.09	927.38	*TOP
STORE	11431	45937.27	46546.69	928.37	*NTR
STORE	11432	45947.51	46546.04	927.06	*TOP
STORE	11433	45956.85	46546.11	922.05	*TOE
STORE	11434	45971.48	46638.79	922.36	*TOE
STORE	11435	45956.96	46646.33	928.09	*TOP
STORE	11436	45952.26	46647.71	928.89	*NTR
STORE	11437	45941.58	46649.64	927.96	*TOP
STORE	11438	45925.45	46651.32	921.93	*TOE
STORE	11439	45914.62	46651.83	920.61	*IG
STORE	11440	45914.19	46631.73	921.31	*EP
STORE	11441	45868.17	46659.09	920.56	*IG
STORE	11442	45843.56	46664.32	920.99	*IG
STORE	11443	45832.60	46665.53	921.20	*IG
STORE	11444	45818.10	46667.69	922.20	*RE
STORE	11445	45798.55	46670.75	923.15	*RC
STORE	11446	45779.34	46674.17	923.82	*RE
STORE	11447	45757.31	46678.09	920.93	*IG
STORE	11448	45714.78	46684.50	921.00	*IG
STORE	11449	45675.11	46689.07	920.59	*IG
STORE	11450	45685.44	46791.05	920.67	*IG
STORE	11451	45728.51	46785.10	921.12	*IG
STORE	11452	45751.76	46780.76	920.95	*IG
STORE	11453	45778.89	46775.02	920.73	*IG
STORE	11454	45783.24	46774.75	923.08	*IG
STORE	11455	45799.83	46771.28	924.42	*RE
STORE	11456	45819.14	46769.12	923.43	*RC
STORE	11457	45838.96	46765.22	922.19	*RE
STORE	11458	45855.08	46762.31	921.03	*IG
STORE	11459	45866.86	46759.57	920.62	*IG
STORE	11460	45888.63	46731.13	920.77	*GL
STORE	11461	45896.67	46730.32	921.00	*GL
STORE	11462	45897.48	46751.71	920.27	*IG
STORE	11463	45900.67	46752.32	921.11	*IG
STORE	11464	45929.40	46750.33	920.94	*IG
STORE	11465	45941.91	46748.58	922.27	*TOE
STORE	11466	45935.25	46770.83	921.18	*EP
STORE	11467	45925.63	46772.08	920.87	*EG
STORE	11468	45957.74	46745.12	928.53	*TOP
STORE	11469	45967.55	46742.71	929.26	*NTR
STORE	11470	45971.54	46741.60	928.34	*TOP
STORE	11471	45985.59	46737.69	923.21	*TOE
STORE	11472	46005.37	46833.72	923.22	*TOE
STORE	11473	45996.27	46835.11	927.87	*TOP
STORE	11474	45988.83	46835.85	928.74	*IG
STORE	11475	45984.85	46835.93	929.69	*NTR
STORE	11476	45976.16	46837.55	929.31	*TOP
STORE	11477	45959.50	46840.88	922.80	*TOE
STORE	11478	45932.94	46847.51	921.10	*IG
STORE	11479	45921.90	46849.33	922.09	*IG
STORE	11480	45897.82	46854.78	920.76	*IG
STORE	11481	45879.86	46859.40	921.30	*IG
STORE	11482	45863.76	46862.21	922.56	*RE
STORE	11483	45844.83	46866.55	923.91	*RC
STORE	11484	45824.72	46870.30	925.14	*RE
STORE	11485	45809.48	46873.57	923.93	*IG
STORE	11486	45804.16	46875.89	920.84	*IG
STORE	11487	45754.32	46884.89	920.03	*IG
STORE	11488	45719.52	46895.91	921.50	*IG
STORE	11489	45739.31	47006.10	921.24	*IG
STORE	11490	45807.40	46984.79	919.69	*IG
STORE	11491	45832.80	46976.50	921.18	*IG
STORE	11492	45839.48	46974.75	924.94	*IG
STORE	11493	45855.29	46970.42	925.66	*RE
STORE	11494	45874.30	46964.04	924.61	*RC
STORE	11495	45893.06	46958.11	923.23	*RE
STORE	11496	45910.71	46952.28	921.69	*IG
STORE	11497	45951.25	46939.58	921.81	*IG
STORE	11498	45968.08	46925.91	922.36	*EP
STORE	11499	45980.98	46936.50	923.45	*TOE
STORE	11500	45996.18	46924.67	929.98	*TOP
STORE	11501	46004.12	46922.59	930.14	*NTR
STORE	11502	46007.42	46920.94	929.18	*TOP
STORE	11503	46016.30	46919.83	927.91	*IG
STORE	11504	46022.53	46917.07	923.93	*TOE
STORE	11505	46051.17	47009.94	924.39	*TOE
STORE	11506	46044.46	47012.09	928.36	*IG

STORE	11507	46036.62	47015.06	928.67	*IG
STORE	11508	46033.77	47016.31	929.66	*TOP
STORE	11509	46029.79	47016.75	930.68	*NTR
STORE	11510	46021.19	47019.32	930.52	*TOP
STORE	11511	46006.44	47024.83	923.35	*TOE
STORE	11512	45985.65	47031.74	922.19	*IG
STORE	11513	45980.08	47033.74	922.76	*IG
STORE	11514	46011.79	47076.34	924.69	*EP
STORE	11515	45974.88	47035.13	922.11	*IG
STORE	11516	45943.86	47045.77	922.21	*IG
STORE	11517	45926.01	47051.93	923.67	*RE
STORE	11518	45907.67	47058.00	925.12	*RC
STORE	11519	45888.33	47064.17	926.47	*RE
STORE	11520	45873.12	47069.63	925.74	*IG
STORE	11521	45864.98	47072.92	923.49	*IG
STORE	11522	45844.68	47079.08	921.43	*IG
STORE	11523	45805.64	47092.69	921.32	*IG
STORE	11524	45782.50	47100.09	921.22	*IG
STORE	11525	45822.16	47201.14	921.13	*IG
STORE	11526	45876.36	47181.35	921.94	*IG
STORE	11527	45901.71	47170.02	923.32	*IG
STORE	11528	45913.52	47165.72	926.06	*IG
STORE	11529	45927.22	47160.79	927.10	*RE
STORE	11530	45945.64	47152.93	925.72	*RC
STORE	11531	45963.55	47145.40	924.22	*RE
STORE	11532	45982.22	47137.76	922.75	*IG
STORE	11533	46006.74	47128.40	922.65	*IG
STORE	11534	46012.88	47126.70	923.08	*IG
STORE	11535	46019.38	47124.28	922.66	*IG
STORE	11536	46035.82	47117.31	924.00	*TOE
STORE	11537	46050.85	47110.08	930.95	*TOP
STORE	11538	46059.99	47108.00	931.17	*NTR
STORE	11539	46062.70	47107.02	930.30	*TOP
STORE	11540	46066.78	47105.58	928.41	*IG
STORE	11541	46069.58	47104.59	928.65	*IG
STORE	11542	46079.60	47101.64	924.65	*TOE
STORE	11543	45839.67	47313.12	923.35	*IG
STORE	11544	45866.34	47300.78	922.29	*IG
STORE	11545	45913.33	47279.22	922.67	*IG
STORE	11546	45937.49	47268.39	923.32	*IG
STORE	11547	45951.52	47260.87	925.04	*IG
STORE	11548	45955.58	47258.66	926.66	*IG
STORE	11549	45969.15	47253.22	927.78	*RE
STORE	11550	45987.23	47244.58	926.35	*RC
STORE	11551	46004.92	47236.40	924.69	*RE
STORE	11552	46023.29	47227.59	923.08	*IG
STORE	11553	46044.25	47217.84	923.02	*IG
STORE	11554	46052.06	47214.85	923.62	*IG
STORE	11555	46036.87	47195.88	922.89	*GL
STORE	11556	46044.57	47192.69	923.09	*GL
STORE	11557	46059.37	47227.00	923.55	*EG
STORE	11558	46068.44	47222.73	924.25	*EP
STORE	11559	46072.17	47203.50	925.23	*TOE
STORE	11560	46086.17	47198.64	931.34	*TOP
STORE	11561	46094.09	47195.13	931.62	*NTR
STORE	11562	46096.80	47194.04	930.74	*TOP
STORE	11563	46099.53	47191.67	929.48	*IG
STORE	11564	46101.89	47188.85	929.11	*IG
STORE	11565	46114.49	47199.75	925.84	*TOE
STORE	11566	46151.43	47271.58	925.39	*TOE
STORE	11567	46136.85	47280.48	931.08	*TOP
STORE	11568	46133.63	47282.24	932.01	*NTR
STORE	11569	46125.66	47285.96	931.81	*TOP
STORE	11570	46111.66	47293.29	925.41	*TOE
STORE	11571	46084.74	47307.00	923.52	*IG
STORE	11572	46067.42	47316.28	923.69	*IG
STORE	11573	46049.85	47325.48	925.62	*RE
STORE	11574	46032.35	47334.38	927.07	*RC
STORE	11575	46014.83	47344.20	928.40	*RE
STORE	11576	46000.21	47351.42	927.71	*IG
STORE	11577	45997.28	47352.89	925.85	*IG
STORE	11578	45970.87	47366.36	923.38	*IG
STORE	11579	45906.32	47399.28	922.79	*IG
STORE	11580	45955.45	47494.28	924.21	*IG
STORE	11581	45988.27	47476.83	923.54	*IG
STORE	11582	46044.13	47444.79	925.89	*IG
STORE	11583	46051.09	47441.28	928.32	*IG
STORE	11584	46064.93	47433.26	928.93	*RE
STORE	11585	46082.91	47422.93	927.80	*RC

STORE	11586	46099.25	47413.20	926.52	*RE
STORE	11587	46117.31	47405.00	924.68	*IG
STORE	11588	46126.59	47398.43	924.83	*IG
STORE	11589	46142.98	47388.69	927.00	*IG
STORE	11590	46127.55	47371.47	926.14	*EG
STORE	11591	46137.62	47366.74	927.90	*EP
STORE	11592	46159.34	47381.94	927.07	*TOE
STORE	11593	46164.79	47377.19	930.42	*IG
STORE	11594	46168.97	47375.78	930.66	*IG
STORE	11595	46170.91	47372.58	932.16	*TOP
STORE	11596	46178.46	47368.56	932.41	*NTR
STORE	11597	46181.52	47366.89	931.39	*TOP
STORE	11598	46184.22	47365.42	930.25	*IG
STORE	11599	46189.79	47361.89	929.82	*IG
STORE	11600	46201.39	47357.58	925.55	*TOE
STORE	11601	46246.11	47436.54	925.54	*TOE
STORE	11602	46237.96	47442.45	930.71	*TOP
STORE	11603	46232.36	47446.14	930.52	*IG
STORE	11604	46229.51	47449.05	931.82	*TOP
STORE	11605	46226.44	47450.65	932.74	*NTR
STORE	11606	46219.08	47456.39	932.34	*TOP
STORE	11607	46216.44	47457.67	931.18	*IG
STORE	11608	46210.86	47460.27	931.29	*IG
STORE	11609	46205.16	47462.73	927.86	*TOE
STORE	11610	46205.12	47483.38	928.02	*EP
STORE	11611	46177.42	47481.01	925.76	*IG
STORE	11612	46167.20	47487.86	925.67	*IG
STORE	11613	46151.44	47498.20	927.33	*RE
STORE	11614	46135.15	47508.38	928.27	*RC
STORE	11615	46117.43	47519.06	929.14	*RE
STORE	11616	46103.35	47528.11	928.99	*IG
STORE	11617	46098.95	47530.99	927.24	*IG
STORE	11618	46068.84	47549.13	925.54	*IG
STORE	11619	46049.18	47561.96	925.67	*IG
STORE	11620	46035.52	47570.35	924.93	*IG
STORE	11621	46010.14	47585.79	925.74	*IG
STORE	11622	46045.94	47685.80	930.52	*IG
STORE	11623	46066.71	47671.67	928.10	*IG
STORE	11624	46089.94	47656.77	927.92	*IG
STORE	11625	46121.93	47636.25	928.50	*IG
STORE	11626	46151.25	47617.36	929.07	*IG
STORE	11627	46154.32	47615.61	931.25	*IG
STORE	11628	46159.21	47612.16	928.69	*IG
STORE	11629	46172.66	47602.85	929.29	*RE
STORE	11630	46189.87	47592.49	928.93	*RC
STORE	11631	46206.11	47581.71	928.40	*RE
STORE	11632	46221.04	47571.73	927.23	*IG
STORE	11633	46231.71	47564.60	928.30	*IG
STORE	11634	46246.01	47554.95	931.18	*IG
STORE	11635	46238.81	47546.66	929.88	*GL
STORE	11636	46254.46	47552.52	931.76	*FO
STORE	11637	46268.52	47540.02	931.59	*TOE
STORE	11638	46270.90	47538.21	932.62	*TOP
STORE	11639	46278.50	47532.34	933.01	*NTR
STORE	11640	46282.58	47529.71	932.17	*TOP
STORE	11641	46285.22	47527.46	931.09	*IG
STORE	11642	46289.17	47524.89	930.78	*IG
STORE	11643	46297.74	47519.70	926.43	*TOE
STORE	11644	46273.88	47587.31	934.64	*EP
STORE	11645	46280.85	47610.76	935.67	*GL
STORE	11646	46352.05	47604.20	926.11	*TOE
STORE	11647	46344.06	47610.92	930.36	*IG
STORE	11648	46340.94	47613.29	930.84	*IG
STORE	11649	46336.91	47615.79	932.47	*TOP
STORE	11650	46335.00	47616.91	933.26	*NTR
STORE	11651	46326.81	47622.12	932.71	*TOP
STORE	11652	46322.18	47624.95	932.41	*IG
STORE	11653	46315.91	47628.42	934.30	*IG
STORE	11654	46298.46	47640.52	934.32	*IG
STORE	11655	46305.74	47666.76	930.06	*R/W
STORE	11656	46285.98	47649.84	929.25	*TOE
STORE	11657	46276.56	47655.00	928.05	*IG
STORE	11658	46261.88	47664.43	929.20	*RE
STORE	11659	46245.61	47674.95	929.56	*RC
STORE	11660	46228.34	47686.25	929.50	*RE
STORE	11661	46215.77	47694.37	928.84	*TOE
STORE	11662	46211.76	47696.38	931.05	*IG
STORE	11663	46202.70	47703.04	930.94	*IG
STORE	11664	46193.21	47709.56	929.11	*IG

STORE	11665	46126.40	47746.45	928.65	*IG
STORE	11666	46109.74	47755.72	930.32	*IG
STORE	11667	46162.24	47854.01	930.57	*IG
STORE	11668	46195.65	47831.20	928.20	*IG
STORE	11669	46220.33	47813.93	928.45	*IG
STORE	11670	46239.69	47799.18	927.47	*IG
STORE	11671	46258.89	47787.49	927.90	*IG
STORE	11672	46285.64	47770.11	929.84	*RE
STORE	11673	46302.09	47758.79	930.07	*RC
STORE	11674	46318.34	47747.53	929.76	*RE
STORE	11675	46333.65	47736.85	928.15	*IG
STORE	11676	46343.96	47730.21	928.65	*IG
STORE	11677	46354.27	47722.52	933.41	*IG
STORE	11678	46370.58	47731.04	933.41	*EP
STORE	11679	46374.38	47709.36	932.94	*IG
STORE	11680	46377.52	47707.11	932.10	*IG
STORE	11681	46381.05	47704.85	932.11	*TOE
STORE	11682	46383.43	47703.58	932.77	*TOP
STORE	11683	46390.47	47698.28	933.54	*NTR
STORE	11684	46393.27	47696.68	932.76	*TOP
STORE	11685	46396.62	47694.82	931.21	*IG
STORE	11686	46400.41	47693.38	930.72	*IG
STORE	11687	46412.61	47685.74	926.37	*TOE
STORE	11688	46466.51	47771.70	926.03	*TOE
STORE	11689	46451.46	47781.91	933.12	*TOP
STORE	11690	46448.63	47783.72	933.85	*NTR
STORE	11691	46441.08	47788.40	933.21	*TOP
STORE	11692	46438.78	47789.80	932.18	*TOE
STORE	11693	46410.41	47807.23	930.95	*IG
STORE	11694	46401.32	47813.02	929.13	*IG
STORE	11695	46396.39	47816.24	928.74	*IG
STORE	11696	46374.26	47829.89	930.21	*RE
STORE	11697	46357.35	47839.59	930.45	*RC
STORE	11698	46340.97	47851.16	930.22	*RE
STORE	11699	46325.99	47859.90	928.13	*IG
STORE	11700	46304.05	47874.27	927.55	*IG
STORE	11701	46250.82	47907.37	928.08	*IG
STORE	11702	46202.77	47935.90	929.54	*IG
STORE	11703	46264.95	48020.75	929.35	*IG
STORE	11704	46307.39	47991.92	928.32	*IG
STORE	11705	46348.62	47964.86	927.81	*IG
STORE	11706	46383.16	47943.03	928.42	*IG
STORE	11707	46398.18	47934.38	930.64	*RE
STORE	11708	46415.24	47924.29	930.91	*RC
STORE	11709	46431.16	47912.69	930.57	*RE
STORE	11710	46450.35	47900.16	928.25	*IG
STORE	11711	46465.60	47890.13	929.31	*IG
STORE	11712	46468.91	47888.45	929.20	*IG
STORE	11713	46474.56	47885.11	928.60	*IG
STORE	11714	46485.74	47876.24	929.25	*TOE
STORE	11715	46447.64	47844.27	930.28	*EP
STORE	11716	46497.28	47870.36	933.53	*TOP
STORE	11717	46504.90	47866.43	934.18	*NTR
STORE	11718	46508.25	47864.72	933.38	*TOP
STORE	11719	46524.07	47853.97	928.98	*TOE
STORE	11720	46413.87	47977.93	930.82	*GL
STORE	11721	46411.14	47981.39	929.79	*RG
STORE	11722	46433.64	47994.23	930.60	*BEG GUARD RAIL
STORE	11723	46465.14	48034.61	930.87	*GUARD RAIL
STORE	11724	46328.96	48102.93	927.90	*IG
STORE	11725	46338.95	48096.39	927.75	*IG
STORE	11726	46367.41	48076.80	925.24	*IG
STORE	11727	46390.09	48061.73	925.77	*IG
STORE	11728	46453.80	48018.46	930.88	*RE
STORE	11729	46470.82	48006.51	931.14	*RC
STORE	11730	46487.29	47995.66	930.85	*RE
STORE	11731	46508.12	47981.72	928.74	*IG
STORE	11732	46524.20	47970.53	930.13	*IG
STORE	11733	46535.99	47974.12	929.41	*EP
STORE	11734	46542.60	47957.16	929.46	*TOE
STORE	11735	46553.02	47952.39	933.77	*TOP
STORE	11736	46560.10	47947.60	934.53	*NTR
STORE	11737	46563.23	47945.58	933.71	*TOP
STORE	11738	46576.54	47937.49	929.52	*TOE
STORE	11739	46641.25	48020.95	930.69	*TOE
STORE	11740	46623.43	48031.33	934.05	*TOP
STORE	11741	46618.27	48033.02	934.88	*NTR
STORE	11742	46609.56	48039.03	934.05	*TOP
STORE	11743	46607.04	48039.68	933.30	*TOE

STORE	11744	46578.99	48056.06	931.38	*IG
STORE	11745	46564.48	48065.15	929.00	*IG
STORE	11746	46543.92	48078.42	930.93	*RE
STORE	11747	46527.06	48089.68	931.23	*RC
STORE	11748	46509.94	48100.24	931.05	*RE
STORE	11749	46472.36	48124.93	928.45	*IG
STORE	11750	46456.91	48135.13	926.33	*IG
STORE	11751	46429.60	48151.61	925.69	*IG
STORE	11752	46383.47	48179.05	927.40	*IG
STORE	11753	46434.71	48266.14	928.77	*IG
STORE	11754	46473.37	48242.64	926.77	*IG
STORE	11755	46520.23	48217.66	926.55	*IG
STORE	11756	46566.73	48183.48	930.96	*RE
STORE	11757	46583.61	48172.33	931.16	*RC
STORE	11758	46600.48	48161.60	931.02	*RE
STORE	11759	46603.20	48159.78	931.06	*IG
STORE	11760	46599.64	48151.59	931.30	*RG
STORE	11761	46578.35	48122.85	931.06	*BEG GUARD RAIL
STORE	11762	46604.06	48167.19	931.02	*GUARD RAIL
STORE	11763	46619.93	48147.98	929.46	*IG
STORE	11764	46636.79	48137.29	931.55	*IG
STORE	11765	46655.42	48125.25	931.79	*TOE
STORE	11766	46623.85	48103.77	932.11	*EP
STORE	11767	46665.37	48118.40	934.49	*TOP
STORE	11768	46672.86	48113.29	935.19	*NTR
STORE	11769	46675.98	48111.71	934.57	*TOP
STORE	11770	46679.53	48108.52	933.64	*TOE
STORE	11771	46736.72	48190.52	933.51	*TOE
STORE	11772	46732.12	48193.04	934.82	*TOP
STORE	11773	46728.94	48195.76	935.49	*NTR
STORE	11774	46721.13	48200.83	934.85	*TOP
STORE	11775	46715.83	48204.26	932.91	*TOE
STORE	11776	46699.31	48215.01	932.60	*EP
STORE	11777	46702.16	48218.90	932.47	*FO
STORE	11778	46690.41	48217.35	932.20	*GL
STORE	11779	46691.43	48221.53	931.85	*IG
STORE	11780	46674.41	48233.18	929.34	*IG
STORE	11781	46658.23	48243.79	930.66	*IG
STORE	11782	46646.31	48227.48	930.88	*BEG CONC WALL
STORE	11783	46611.89	48250.84	930.68	*BEG CONC WALL
STORE	11784	46625.59	48269.48	930.90	*RE
STORE	11785	46622.53	48269.55	930.28	*IG
STORE	11786	46658.06	48245.87	931.04	*RE
STORE	11787	46641.05	48257.44	931.07	*RC
STORE	11788	46603.73	48283.17	928.40	*IG
STORE	11789	46547.41	48318.92	927.57	*IG
STORE	11790	46470.30	48314.97	928.05	*TOP
STORE	11791	46551.53	48337.24	927.09	*TOP
STORE	11792	46647.39	48329.89	927.30	*TOP
STORE	11793	46651.71	48326.66	926.39	*GL
STORE	11794	46661.61	48325.25	926.29	*TOP
STORE	11795	46674.99	48347.55	926.86	*TOP
STORE	11796	46667.31	48333.08	922.40	*F/L
STORE	11797	46667.18	48348.83	926.30	*GL
STORE	11798	46640.24	48358.98	925.57	*TOP
STORE	11799	46634.93	48360.97	922.61	*F/L
STORE	11800	46622.97	48367.24	929.71	*TOP
STORE	11801	46548.51	48372.40	932.21	*TOP
STORE	11802	46551.79	48355.89	922.37	*TOE
STORE	11803	46462.60	48331.17	922.12	*TOE
STORE	11804	46455.43	48346.12	931.55	*TOP
STORE	11805	46464.53	48325.31	922.01	*TOE
STORE	11806	46549.69	48347.45	922.29	*TOE
STORE	11807	46682.88	48353.46	930.71	*RE
STORE	11808	46716.40	48332.33	930.97	*RE
STORE	11809	46699.10	48342.93	931.02	*RC
STORE	11810	46695.39	48373.10	930.66	*FF CONC
STORE	11811	46729.50	48350.10	930.75	*FF CONC
STORE	11812	46720.89	48333.63	930.33	*TOP
STORE	11813	46714.50	48326.81	924.66	*TOE
STORE	11814	46704.93	48312.92	922.74	*TOE
STORE	11815	46701.25	48307.16	926.06	*TOP
STORE	11816	46731.21	48216.91	934.56	*COR RR BRIDGE
STORE	11817	46743.68	48208.47	934.74	*COR RR BRIDGE
STORE	11818	46803.24	48295.71	934.86	*COR RR BRIDGE
STORE	11819	46790.24	48303.21	934.82	*COR RR BRIDGE
STORE	11820	46781.98	48292.42	929.01	*TOP
STORE	11821	46771.86	48277.18	922.44	*TOE
STORE	11822	46769.38	48272.95	922.45	*TOE

STORE	11823	46764.81	48267.09	928.72	*TOP
STORE	11824	46810.37	48296.95	932.35	*TOE
STORE	11825	46805.75	48299.60	934.80	*TOP
STORE	11826	46801.01	48301.90	935.60	*NTR
STORE	11827	46793.93	48306.45	934.95	*TOP
STORE	11828	46781.04	48313.89	930.25	*TOE
STORE	11829	46766.13	48322.00	928.56	*IG
STORE	11830	46760.77	48319.27	928.32	*GL
STORE	11831	46712.22	48361.99	931.08	*RC
STORE	11832	46690.36	48375.64	929.47	*IG
STORE	11833	46670.63	48391.13	929.61	*TOP
STORE	11834	46666.30	48396.63	925.19	*TOE
STORE	11835	46662.67	48403.15	924.96	*TOE
STORE	11836	46652.45	48401.87	930.19	*TOP
STORE	11837	46621.64	48422.46	930.54	*IG
STORE	11838	46664.40	48501.97	930.91	*IG
STORE	11839	46703.15	48467.21	929.20	*TOP
STORE	11840	46711.07	48466.60	926.10	*F/L
STORE	11841	46714.20	48463.10	930.69	*TOP
STORE	11842	46727.20	48449.30	930.36	*IG
STORE	11843	46729.30	48447.71	929.60	*IG
STORE	11844	46740.56	48436.99	930.86	*RE
STORE	11845	46754.53	48424.12	931.13	*RC
STORE	11846	46769.17	48410.81	930.88	*RE
STORE	11847	46805.29	48386.64	929.06	*IG
STORE	11848	46809.06	48376.58	929.82	*EP
STORE	11849	46814.54	48379.09	930.10	*FO
STORE	11850	46828.20	48371.36	931.30	*TOE
STORE	11851	46835.59	48365.06	934.87	*TOP
STORE	11852	46842.19	48362.35	935.56	*NTR
STORE	11853	46844.91	48360.74	934.77	*TOP
STORE	11854	46854.33	48354.21	930.71	*TOE
STORE	11855	46960.47	48521.06	933.78	*RR SPR TRV PT
STORE	11856	46922.57	48427.75	928.46	*TOE
STORE	11857	46900.64	48442.13	934.93	*TOP
STORE	11858	46897.57	48443.75	935.62	*NTR
STORE	11859	46890.84	48448.10	934.97	*TOP
STORE	11860	46881.05	48454.79	930.83	*TOE
STORE	11861	46862.79	48466.77	929.18	*IG
STORE	11862	46887.22	48490.29	930.30	*EP
STORE	11863	46850.49	48476.92	929.23	*IG
STORE	11864	46825.95	48494.29	930.99	*RE
STORE	11865	46809.39	48505.08	931.31	*RC
STORE	11866	46793.40	48516.48	930.96	*RE
STORE	11867	46744.88	48444.81	930.81	*GUARD RAIL
STORE	11868	46762.92	48477.75	930.89	*END GUARD RAIL
STORE	11869	46779.06	48525.95	929.94	*IG
STORE	11870	46767.47	48535.36	931.24	*TOP
STORE	11871	46764.85	48537.02	927.30	*TOE
STORE	11872	46759.59	48538.94	927.28	*TOE
STORE	11873	46755.13	48538.67	931.08	*TOP
STORE	11874	46702.73	48568.10	929.59	*IG
STORE	11875	46728.29	48685.13	930.11	*IG
STORE	11876	46810.55	48627.85	929.86	*IG
STORE	11877	46813.76	48625.71	931.27	*TOP
STORE	11878	46816.71	48622.98	927.46	*TOE
STORE	11879	46819.10	48621.95	927.59	*TOE
STORE	11880	46823.76	48618.20	931.27	*TOP
STORE	11881	46826.72	48616.07	930.19	*TOE
STORE	11882	46829.84	48612.55	930.86	*IG
STORE	11883	46835.34	48609.70	930.95	*IG
STORE	11884	46836.93	48608.82	930.02	*IG
STORE	11885	46849.63	48599.63	931.20	*RE
STORE	11886	46865.94	48587.62	931.56	*RC
STORE	11887	46882.58	48577.31	931.25	*RE
STORE	11888	46883.32	48576.33	931.19	*GUARD RAIL
STORE	11889	46908.32	48606.01	931.10	*END GUARD RAIL
STORE	11890	46909.02	48557.68	929.28	*IG
STORE	11891	46934.85	48539.68	930.31	*TOE
STORE	11892	46946.87	48530.81	935.08	*TOP
STORE	11893	46954.25	48527.10	935.72	*NTR
STORE	11894	46957.69	48525.39	935.03	*TOP
STORE	11895	46974.98	48514.30	928.71	*TOE
STORE	11896	46974.34	48618.91	929.86	*EP
STORE	11897	47033.32	48595.39	928.62	*TOE
STORE	11898	47014.11	48608.78	935.09	*TOP
STORE	11899	47011.79	48611.61	935.76	*NTR
STORE	11900	47004.91	48616.19	935.18	*TOP
STORE	11901	46994.08	48623.59	930.27	*TOE

STORE	11902	46968.19	48641.73	929.71	*IG
STORE	11903	46940.27	48661.20	931.33	*RE
STORE	11904	46923.46	48672.42	931.73	*RC
STORE	11905	46907.07	48683.31	931.39	*RE
STORE	11906	46897.97	48688.95	930.42	*IG
STORE	11907	46892.54	48692.23	930.68	*IG
STORE	11908	46890.04	48694.07	931.35	*IG
STORE	11909	46883.11	48699.60	930.82	*TOE
STORE	11910	46881.36	48701.32	932.13	*TOP
STORE	11911	46875.37	48703.07	928.90	*TOE
STORE	11912	46869.81	48705.09	928.08	*TOE
STORE	11913	46867.10	48706.96	931.00	*TOP
STORE	11914	46866.20	48707.38	930.01	*TOE
STORE	11915	46818.64	48735.00	930.36	*IG
STORE	11916	46772.21	48765.94	930.25	*IG
STORE	11917	46813.41	48855.86	930.41	*IG
STORE	11918	46866.19	48821.67	930.52	*IG
STORE	11919	46925.97	48795.72	930.67	*TOE
STORE	11920	46928.60	48793.88	931.99	*TOP
STORE	11921	46929.02	48793.05	929.38	*TOE
STORE	11922	46934.19	48790.93	929.60	*TOE
STORE	11923	46938.82	48786.97	932.07	*TOP
STORE	11924	46940.54	48785.10	931.02	*IG
STORE	11925	46943.20	48783.11	931.11	*IG
STORE	11926	46944.86	48781.89	931.78	*IG
STORE	11927	46947.59	48777.81	931.89	*IG
STORE	11928	46951.69	48775.39	930.95	*IG
STORE	11929	46955.37	48772.73	930.91	*IG
STORE	11930	46964.35	48767.55	931.92	*RE
STORE	11931	46980.76	48756.22	932.00	*RC
STORE	11932	46996.83	48744.41	931.65	*RE
STORE	11933	47012.07	48732.57	930.34	*IG
STORE	11934	47034.05	48716.28	930.61	*IG
STORE	11935	47040.35	48716.00	930.68	*EP
STORE	11936	47052.04	48708.39	930.72	*TOE
STORE	11937	47063.09	48701.21	935.36	*TOP
STORE	11938	47070.11	48697.32	935.91	*NTR
STORE	11939	47072.67	48695.56	935.32	*TOP
STORE	11940	47077.46	48677.84	931.02	*TOE
STORE	11941	47142.13	48767.24	930.55	*TOE
STORE	11942	47135.47	48772.11	933.98	*IG
STORE	11943	47131.67	48775.25	934.29	*IG
STORE	11944	47129.77	48779.18	935.55	*TOP
STORE	11945	47126.99	48781.15	936.23	*NTR
STORE	11946	47120.10	48786.38	935.59	*TOP
STORE	11947	47107.90	48794.87	931.03	*TOE
STORE	11948	47093.16	48805.12	931.19	*IG
STORE	11949	47117.34	48829.84	931.47	*EP
STORE	11950	47082.59	48810.91	930.42	*IG
STORE	11951	47071.65	48819.17	930.75	*IG
STORE	11952	47055.59	48830.75	932.07	*RE
STORE	11953	47038.61	48841.95	932.40	*RC
STORE	11954	47021.72	48851.90	932.11	*RE
STORE	11955	47010.11	48859.17	931.27	*IG
STORE	11956	47005.34	48862.56	932.75	*IG
STORE	11957	46999.00	48866.84	931.29	*IG
STORE	11958	46994.49	48868.36	932.66	*IG
STORE	11959	46989.73	48870.29	929.28	*TOE
STORE	11960	46985.66	48877.86	932.47	*TOP
STORE	11961	46983.58	48879.19	931.01	*IG
STORE	11962	46940.59	48907.65	930.95	*IG
STORE	11963	46897.24	48934.64	930.99	*IG
STORE	11964	46951.24	49015.55	931.55	*IG
STORE	11965	46994.74	48989.04	931.56	*IG
STORE	11966	47038.83	48962.76	932.04	*IG
STORE	11967	47041.99	48961.19	933.45	*TOP
STORE	11968	47045.07	48959.64	930.45	*TOE
STORE	11969	47047.78	48957.07	930.23	*TOE
STORE	11970	47052.43	48953.97	933.37	*TOP
STORE	11971	47054.85	48950.81	931.98	*IG
STORE	11972	47058.74	48948.16	932.78	*IG
STORE	11973	47066.76	48945.50	932.67	*IG
STORE	11974	47069.20	48943.92	931.91	*IG
STORE	11975	47080.32	48937.78	932.65	*RE
STORE	11976	47097.15	48927.92	932.94	*RC
STORE	11977	47113.61	48916.21	932.58	*RE
STORE	11978	47129.50	48906.27	931.10	*IG
STORE	11979	47142.87	48897.37	931.03	*IG
STORE	11980	47153.82	48890.13	931.55	*IG

STORE	11981	47166.87	48882.09	930.96	*TOE
STORE	11982	47180.55	48873.37	935.91	*TOP
STORE	11983	47187.28	48869.57	936.52	*NTR
STORE	11984	47190.49	48867.58	935.87	*TOP
STORE	11985	47206.24	48857.00	930.64	*TOE
STORE	11986	47261.03	48938.42	931.28	*TOE
STORE	11987	47245.37	48949.65	936.30	*TOP
STORE	11988	47243.15	48951.89	936.95	*NTR
STORE	11989	47236.61	48956.74	936.32	*TOP
STORE	11990	47225.10	48965.49	931.39	*TOE
STORE	11991	47209.58	48974.82	931.64	*IG
STORE	11992	47225.62	48988.88	931.60	*EP
STORE	11993	47205.44	48977.28	931.20	*IG
STORE	11994	47186.83	48990.29	931.68	*IG
STORE	11995	47171.01	49000.52	933.21	*RE
STORE	11996	47154.24	49011.81	933.50	*RC
STORE	11997	47138.05	49023.21	933.14	*RE
STORE	11998	47127.71	49030.27	932.59	*IG
STORE	11999	47122.56	49033.87	933.79	*IG
STORE	12000	47118.95	49037.19	933.21	*IG
STORE	12001	47117.87	49038.17	932.51	*IG
STORE	12002	47113.92	49039.91	932.49	*IG
STORE	12003	47111.77	49041.52	933.49	*TOP
STORE	12004	47107.40	49043.05	932.15	*TOE
STORE	12005	47102.77	49045.48	932.50	*TOE
STORE	12006	47101.47	49048.32	933.81	*TOP
STORE	12007	47099.26	49049.49	932.78	*IG
STORE	12008	47052.37	49082.23	932.20	*IG
STORE	12009	47307.47	49156.17	932.11	*TRV. PT
STORE	12010	47321.74	49024.02	931.71	*TOE
STORE	12011	47303.02	49034.64	936.79	*TOP
STORE	12012	47300.47	49036.17	937.50	*NTR
STORE	12013	47293.84	49040.50	936.89	*TOP
STORE	12014	47279.06	49050.45	931.24	*TOE
STORE	12015	47268.50	49059.27	931.65	*IG
STORE	12016	47244.86	49074.61	931.76	*IG
STORE	12017	47228.74	49085.63	933.89	*RE
STORE	12018	47211.49	49096.23	934.11	*RC
STORE	12019	47195.51	49107.42	933.84	*RE
STORE	12020	47186.35	49114.94	933.24	*IG
STORE	12021	47183.67	49116.69	934.25	*IG
STORE	12022	47169.08	49126.85	934.25	*TOP
STORE	12023	47166.43	49128.43	932.99	*TOE
STORE	12024	47157.81	49126.80	933.40	*TOE
STORE	12025	47154.19	49126.85	934.31	*TOP
STORE	12026	47108.10	49164.39	932.98	*IG
STORE	12027	47061.45	49196.15	933.14	*IG
STORE	12028	47122.10	49289.04	934.33	*IG
STORE	12029	47217.60	49221.30	934.41	*IG
STORE	12030	47219.34	49220.03	935.62	*TOP
STORE	12031	47222.92	49217.90	934.28	*TOE
STORE	12032	47231.16	49207.38	934.07	*TOE
STORE	12033	47235.13	49206.46	934.76	*TOP
STORE	12034	47240.42	49202.90	934.64	*IG
STORE	12035	47242.07	49201.74	933.81	*IG
STORE	12036	47254.08	49193.59	934.53	*RE
STORE	12037	47270.32	49182.39	934.87	*RC
STORE	12038	47286.84	49170.45	934.69	*RE
STORE	12039	47315.86	49120.76	931.47	*EP
STORE	12040	47339.05	49135.79	931.48	*TOE
STORE	12041	47351.39	49125.00	937.34	*TOP
STORE	12042	47357.87	49120.67	938.00	*NTR
STORE	12043	47359.80	49118.47	937.32	*TOP
STORE	12044	47374.33	49104.37	932.10	*TOE
STORE	12045	47430.62	49195.91	933.24	*TOE
STORE	12046	47419.12	49205.22	937.78	*TOP
STORE	12047	47416.54	49206.87	938.46	*NTR
STORE	12048	47410.20	49211.17	937.89	*TOP
STORE	12049	47397.94	49219.89	932.25	*TOE
STORE	12050	47375.22	49202.60	931.74	*FO
STORE	12051	47363.67	49243.78	933.00	*IG
STORE	12052	47345.13	49256.23	935.48	*RE
STORE	12053	47327.87	49267.27	935.76	*RC
STORE	12054	47312.29	49278.96	935.38	*RE
STORE	12055	47300.55	49285.97	934.86	*IG
STORE	12056	47296.69	49289.19	936.79	*IG
STORE	12057	47292.18	49292.97	936.09	*TOP
STORE	12058	47290.88	49294.00	935.06	*TOE
STORE	12059	47282.18	49302.04	935.51	*TOE

STORE	12060	47276.80	49305.82	937.13	*TOP
STORE	12061	47274.48	49306.93	936.12	*IG
STORE	12062	47226.73	49331.89	935.60	*IG
STORE	12063	47176.14	49361.93	935.48	*IG
STORE	20300	49980.45	47639.92	947.92	*FA 6FT CHAINLK
STORE	20301	49041.36	46815.31	941.34	*C/L IG
STORE	20302	49979.67	47543.98	946.72	*FL IG
STORE	20303	49979.24	47487.75	945.65	*FL IG
STORE	20304	49978.86	47434.43	945.45	*FL IG
STORE	20305	49977.37	47377.11	945.70	*TOP IG
STORE	20306	49977.84	47368.04	938.84	*TOE
STORE	20307	49977.30	47364.48	938.18	*TOE
STORE	20308	49977.90	47361.97	943.14	*FC
STORE	20309	49977.34	47354.92	945.43	*TOP
STORE	20310	49977.66	47335.45	944.90	*IG
STORE	20311	49977.59	47330.10	942.17	*IG
STORE	20312	49973.82	47270.25	942.96	*IG
STORE	20313	49836.39	47256.58	941.84	*IG
STORE	20314	49836.42	47310.65	941.42	*IG
STORE	20315	49835.70	47340.53	941.09	*IG
STORE	20316	49838.00	47360.99	942.59	*FL IG
STORE	20317	49836.97	47365.31	942.48	*TOP IG
STORE	20318	49837.32	47372.56	937.91	*TOE
STORE	20319	49837.17	47375.56	937.96	*TOE
STORE	20320	49836.38	47383.11	943.82	*TOP IG
STORE	20321	49837.72	47418.89	944.84	*C/L IG
STORE	20322	49836.94	47437.97	944.61	*IG
STORE	20323	49836.16	47441.16	944.24	*IG
STORE	20324	49833.34	47475.14	943.67	*IG
STORE	20325	49823.94	47553.30	945.46	*IG
STORE	20326	49756.62	47361.18	942.70	*FL 6FT CHAINLK
STORE	20327	49754.02	47364.49	942.37	*OP IG
STORE	20328	49753.64	47365.51	941.23	*C/L IG
STORE	20329	49748.20	47373.77	937.72	*TOE
STORE	20330	49746.95	47375.76	937.70	*TOE
STORE	20331	49741.68	47383.28	943.71	*TOP IG
STORE	20332	49712.63	47425.62	944.02	*IG
STORE	20333	49711.00	47428.71	943.59	*IG
STORE	20334	49693.60	47454.98	943.46	*IG
STORE	20335	49669.63	47490.69	942.34	*IG
STORE	20336	49655.19	47514.00	942.43	*IG
STORE	20337	49757.02	47360.09	942.68	*IG
STORE	20338	49758.10	47359.06	941.88	*IG
STORE	20339	49768.87	47342.47	940.90	*IG
STORE	20340	49798.11	47296.93	941.46	*IG
STORE	20341	49836.28	47240.67	941.91	*IG
STORE	20342	49864.72	47199.28	942.17	*IG
STORE	20343	49785.01	47182.67	942.07	*IG
STORE	20344	49746.62	47224.83	941.72	*IG
STORE	20345	49713.84	47261.43	941.45	*IG
STORE	20346	49674.51	47304.59	940.94	*C/L IG
STORE	20347	49641.22	47340.93	940.15	*IG
STORE	20348	49626.35	47358.30	941.56	*IG
STORE	20349	49624.99	47360.97	942.46	*FL IG
STORE	20350	49622.47	47362.69	942.68	*TOP IG
STORE	20351	49614.84	47370.53	937.74	*TOE
STORE	20352	49612.86	47373.39	937.90	*TOE
STORE	20353	49604.21	47380.85	942.50	*TOP IG
STORE	20354	49601.73	47386.98	943.25	*IG
STORE	20355	49570.50	47422.39	943.08	*IG
STORE	20356	49567.39	47425.51	942.90	*IG
STORE	20357	49537.79	47459.27	943.16	*IG
STORE	20358	49595.25	47243.35	941.13	*C/L IG
STORE	20359	49554.36	47291.01	940.39	*IG
STORE	20360	49518.29	47333.55	940.18	*IG
STORE	20361	49515.34	47337.36	940.39	*IG
STORE	20362	49508.09	47345.60	939.83	*IG
STORE	20363	49507.18	47347.13	940.43	*IG
STORE	20364	49497.95	47358.63	941.20	*IG
STORE	20365	49495.98	47360.45	941.26	*FL IG
STORE	20366	49493.72	47362.01	941.40	*TOP IG
STORE	20367	49485.63	47369.07	938.36	*TOE
STORE	20368	49483.35	47373.38	938.05	*TOE
STORE	20369	49475.35	47384.26	942.52	*TOP IG
STORE	20370	49627.09	47203.83	941.27	*IG
STORE	20371	49658.73	47166.78	941.67	*IG
STORE	20372	49693.63	47129.22	941.95	*IG
STORE	20373	49516.17	47182.22	941.32	*C/L IG
STORE	20374	49482.87	47221.50	940.66	*IG

STORE	20375	49453.75	47261.49	940.64	*IG
STORE	20376	49418.59	47300.25	940.23	*IG
STORE	20377	49546.27	47142.35	941.35	*IG
STORE	20378	49575.39	47103.63	941.53	*IG
STORE	20379	49604.89	47064.57	941.86	*IG
STORE	20380	49437.12	47121.12	941.15	*C/L IG
STORE	20381	49497.74	47044.41	941.46	*IG
STORE	20382	49529.26	47004.10	941.93	*IG
STORE	20383	49407.37	47158.20	940.88	*IG
STORE	20384	49376.34	47196.23	940.79	*IG
STORE	20385	49344.61	47234.40	940.48	*IG
STORE	20386	49358.16	47060.08	940.90	*C/L IG
STORE	20387	49385.94	47020.67	941.17	*IG
STORE	20388	49414.27	46982.08	941.44	*IG
STORE	20389	49442.87	46942.68	941.75	*IG
STORE	20390	49330.49	47097.95	940.78	*IG
STORE	20391	49301.31	47138.29	940.74	*IG
STORE	20392	49271.55	47178.99	940.69	*IG
STORE	20393	49278.79	46998.74	941.14	*C/L IG
STORE	20394	49305.73	46961.31	941.36	*IG
STORE	20395	49334.14	46921.94	941.46	*IG
STORE	20396	49362.19	46882.65	941.70	*IG
STORE	20397	49247.24	47041.10	940.94	*IG
STORE	20398	49217.58	47081.45	940.87	*IG
STORE	20399	49188.68	47120.86	940.65	*IG
STORE	20400	49199.73	46937.63	941.52	*C/L IG
STORE	20401	49230.55	46900.73	941.70	*IG
STORE	20402	49260.65	46864.55	941.54	*IG
STORE	20403	49292.10	46827.27	941.83	*IG
STORE	20404	49169.26	46973.56	941.02	*IG
STORE	20405	49136.37	47009.88	940.99	*IG
STORE	20406	49104.54	47047.09	940.90	*IG
STORE	20407	49120.48	46876.37	941.46	*C/L IG
STORE	20408	49152.09	46839.39	941.48	*IG
STORE	20409	49183.59	46802.81	941.76	*IG
STORE	20410	49215.29	46765.83	941.83	*IG
STORE	20411	49092.02	46911.63	941.18	*IG
STORE	20412	49059.37	46950.11	941.01	*IG
STORE	20413	49027.57	46987.56	940.82	*IG
STORE	20414	49041.31	46815.27	941.35	*C/L IG
STORE	20415	49075.49	46773.53	941.54	*IG
STORE	20416	49106.68	46735.46	941.95	*IG
STORE	20417	49138.11	46696.25	942.28	*IG
STORE	20418	49006.91	46855.08	940.97	*IG
STORE	20419	48972.21	46893.80	940.98	*IG
STORE	20420	48937.74	46932.97	940.68	*IG
STORE	20421	48993.44	46717.36	941.69	*IG
STORE	20422	49026.49	46679.84	941.89	*IG
STORE	20423	49059.80	46640.80	942.31	*IG
STORE	20424	48926.79	46795.44	940.86	*IG
STORE	20425	48892.90	46834.56	940.85	*IG
STORE	20426	48855.69	46878.15	940.67	*IG
STORE	20427	48794.24	46827.91	940.89	*IG
STORE	20428	48819.58	46788.04	940.93	*IG
STORE	20429	48846.42	46747.62	941.12	*IG
STORE	20430	48877.76	46700.36	941.13	*C/L IG
STORE	20431	48905.22	46658.58	941.60	*IG
STORE	20432	48932.05	46619.75	941.77	*IG
STORE	20433	48957.28	46581.34	942.05	*IG
STORE	20434	48851.58	46550.84	941.89	*IG
STORE	20435	48828.93	46589.20	941.55	*IG
STORE	20436	48806.37	46626.29	941.42	*IG
STORE	20437	48792.92	46647.46	941.72	*C/L IG
STORE	20438	48766.97	46689.49	941.40	*IG
STORE	20439	48740.39	46731.86	940.78	*IG
STORE	20440	48658.56	46707.49	941.47	*IG
STORE	20441	48676.68	46665.04	941.35	*IG
STORE	20442	48693.53	46626.07	940.90	*IG
STORE	20443	48706.19	46598.07	941.34	*C/L IG
STORE	20444	48726.87	46551.64	941.38	*IG
STORE	20445	48747.01	46506.94	942.03	*IG
STORE	20446	48765.29	46462.86	942.12	*IG
STORE	20447	48665.65	46409.82	941.94	*IG
STORE	20448	48652.68	46452.00	941.59	*IG
STORE	20449	48638.29	46492.91	941.36	*IG
STORE	20450	48623.53	46534.80	941.66	*IG
STORE	20451	48617.38	46551.69	941.63	*C/L IG
STORE	20452	48600.25	46599.30	941.89	*IG
STORE	20453	48584.42	46647.03	942.22	*IG

STORE	20454	48567.54	46692.02	942.63	*IG
STORE	20455	48469.02	46647.74	943.21	*IG
STORE	20456	48485.87	46607.08	943.18	*IG
STORE	20457	48505.93	46560.95	942.69	*IG
STORE	20458	48527.09	46508.91	942.26	*C/L IG
STORE	20459	48546.80	46460.90	941.90	*IG
STORE	20460	48566.05	46413.61	941.72	*IG
STORE	20461	48586.10	46363.43	941.68	*IG
STORE	20462	48435.25	46469.36	942.73	*C/L IG
STORE	20463	48451.80	46423.18	942.07	*IG
STORE	20464	48469.11	46374.04	942.15	*IG
STORE	20465	48487.61	46322.86	942.09	*IG
STORE	20466	48418.18	46516.76	943.01	*IG
STORE	20467	48401.11	46563.96	943.46	*IG
STORE	20468	48384.25	46610.84	943.67	*IG
STORE	20469	48306.49	46597.00	944.01	*IG
STORE	20470	48316.30	46552.47	943.91	*IG
STORE	20471	48326.74	46506.11	943.67	*IG
STORE	20472	48342.06	46433.59	943.34	*C/L IG
STORE	20473	48352.25	46385.02	942.73	*IG
STORE	20474	48362.75	46337.49	942.51	*IG
STORE	20475	48374.50	46287.31	942.29	*IG
STORE	20476	48287.39	46248.62	942.58	*IG
STORE	20477	48275.27	46292.54	942.94	*IG
STORE	20478	48264.94	46334.66	943.01	*IG
STORE	20479	48247.40	46401.19	943.57	*C/L IG
STORE	20480	48234.85	46449.58	943.80	*IG
STORE	20481	48223.09	46496.37	943.67	*IG
STORE	20482	48210.98	46546.38	944.29	*IG
STORE	20483	48116.84	46542.91	944.37	*IG
STORE	20484	48125.95	46499.88	944.42	*IG
STORE	20485	48135.04	46455.18	944.40	*IG
STORE	20486	48144.35	46407.98	944.13	*IG
STORE	20487	48151.66	46372.28	944.00	*C/L IG
STORE	20488	48161.08	46329.22	943.62	*IG
STORE	20489	48169.79	46284.70	943.65	*IG
STORE	20490	48178.37	46237.97	943.22	*IG
STORE	20491	48073.59	46205.85	944.60	*TOE
STORE	20492	48069.32	46205.36	946.80	*TOP CONC
STORE	20493	48067.69	46205.06	945.38	*IC
STORE	20494	48066.69	46204.86	945.38	*IC
STORE	20495	48065.16	46204.31	946.77	*TOP CONC
STORE	20496	48059.72	46203.59	944.35	*TOE
STORE	20497	48048.35	46251.69	944.83	*TOE
STORE	20498	48052.40	46252.55	946.84	*TOP CONC
STORE	20499	48056.53	46253.79	946.73	*TOP CONC
STORE	20500	48054.17	46253.19	945.20	*IC
STORE	20501	48055.16	46253.49	945.21	*IC
STORE	20502	48060.35	46254.88	944.72	*TOE
STORE	20503	48066.87	46256.30	944.53	*IG
STORE	20504	48060.71	46303.97	944.15	*IG
STORE	20505	48044.93	46298.98	944.99	*TOE
STORE	20506	48041.23	46297.81	946.64	*TOP CONC
STORE	20507	48037.00	46295.70	946.84	*TOP CONC
STORE	20508	48039.77	46296.99	945.16	*IC
STORE	20509	48038.78	46296.61	945.16	*IC
STORE	20510	48033.20	46294.18	944.63	*TOE
STORE	20511	48054.85	46347.12	944.63	*C/L IG
STORE	20512	48021.07	46339.01	945.05	*TOE
STORE	20513	48017.49	46337.31	946.61	*TOP CONC
STORE	20514	48015.51	46336.46	945.09	*C/L CONC. IRR
STORE	20515	48013.03	46335.83	946.82	*TOP CONC
STORE	20516	48008.94	46334.85	944.75	*TOE
STORE	20517	47979.79	46366.20	944.46	*TOE
STORE	20518	47982.20	46368.47	946.67	*TOP CONC
STORE	20519	47985.18	46371.76	946.67	*TOP CONC
STORE	20520	47983.53	46370.07	945.06	*IC
STORE	20521	47984.27	46370.78	945.06	*IC
STORE	20522	47988.16	46374.43	945.24	*TOE
STORE	20523	48044.87	46424.95	944.63	*IG
STORE	20524	48038.15	46470.40	944.64	*IG
STORE	20525	47955.57	46404.95	945.33	*TOE
STORE	20526	47953.13	46402.50	946.74	*TOP CONC
STORE	20527	47949.88	46399.41	946.66	*TOP CONC
STORE	20528	47951.14	46400.43	945.02	*IC
STORE	20529	47951.91	46401.18	945.04	*IC
STORE	20530	47947.64	46396.88	944.38	*TOE
STORE	20531	47989.34	46185.01	943.34	*IG
STORE	20532	47980.28	46230.18	943.49	*IG

STORE	20533	47968.35	46275.55	943.43	*IG
STORE	20534	47957.19	46325.62	943.88	*C/L IG
STORE	20535	47945.61	46373.63	943.86	*IG
STORE	20536	47938.48	46404.63	944.50	*TOE
STORE	20537	47935.20	46423.17	945.48	*TOE
STORE	20538	47923.11	46466.22	944.74	*IG
STORE	20539	47922.17	46434.14	945.47	*TOE
STORE	20540	47920.04	46432.11	946.56	*TOP CONC
STORE	20541	47916.95	46428.64	946.54	*TOP CONC
STORE	20542	47919.00	46430.62	944.96	*IC
STORE	20543	47918.19	46429.82	944.96	*IC
STORE	20544	47914.47	46425.51	944.41	*TOE
STORE	20545	47827.23	46457.09	944.58	*IG
STORE	20546	47837.96	46413.89	943.63	*IG
STORE	20547	47846.46	46367.41	943.50	*IG
STORE	20548	47858.58	46307.84	943.27	*C/L IG
STORE	20549	47868.07	46262.98	943.17	*IG
STORE	20550	47876.98	46218.38	942.95	*IG
STORE	20551	47887.08	46173.51	943.01	*IG
STORE	20552	47781.18	46158.05	942.53	*IG
STORE	20553	47774.70	46202.15	942.78	*IG
STORE	20554	47767.54	46244.79	943.26	*IG
STORE	20555	47759.99	46293.85	943.24	*C/L IG
STORE	20556	47753.42	46338.92	943.46	*IG
STORE	20557	47744.11	46384.52	944.05	*TOE
STORE	20558	47742.00	46388.29	945.89	*TOP CONC
STORE	20559	47742.40	46391.32	944.08	*IC
STORE	20560	47742.39	46392.65	944.09	*IC
STORE	20561	47742.07	46395.16	945.87	*TOP CONC
STORE	20562	47741.95	46401.30	944.91	*IG
STORE	20563	47739.61	46419.99	944.45	*IG
STORE	20564	47739.51	46422.52	945.18	*FL 6FT CHAINLK
STORE	20565	47648.97	46343.21	944.83	*FL 6FT CHAINLK
STORE	20566	47649.39	46340.71	943.97	*IG
STORE	20567	47652.78	46324.17	944.38	*IG
STORE	20568	47653.88	46318.03	945.56	*TOP CONC
STORE	20569	47654.12	46315.70	943.76	*IC
STORE	20570	47654.31	46314.29	943.76	*IC
STORE	20571	47655.25	46312.56	945.55	*TOP CONC
STORE	20572	47656.72	46306.40	943.38	*IG
STORE	20573	47660.28	46283.21	943.20	*C/L IG
STORE	20574	47669.85	46234.33	942.92	*IG
STORE	20575	47678.82	46187.99	942.63	*IG
STORE	20576	47686.21	46143.82	942.48	*IG
STORE	20577	47642.80	46371.06	944.31	*IG
STORE	20578	47635.42	46405.68	944.64	*IG
STORE	20579	47561.41	46267.09	944.45	*FL IG 6FTCHAINLK
STORE	20580	47560.39	46276.85	944.16	*C/L IG
STORE	20581	47555.92	46317.33	943.86	*IG
STORE	20582	47552.63	46341.58	943.79	*IG
STORE	20583	47552.59	46347.20	939.47	*IG
STORE	20584	47548.18	46381.69	938.52	*IG
STORE	20585	47548.12	46386.36	936.42	*TOE
STORE	20586	47449.98	46169.38	943.96	*FL IG
STORE	20587	47455.80	46219.91	943.73	*IG
STORE	20588	47462.91	46274.08	943.50	*C/L IG
STORE	20589	47461.66	46283.30	938.86	*IG
STORE	20590	47466.32	46320.33	937.69	*IG
STORE	20591	47466.81	46323.64	935.87	*TOE
STORE	20592	47372.63	46141.62	943.18	*IG
STORE	20593	47365.29	46224.65	944.02	*IG
STORE	20594	47365.33	46229.14	942.32	*IG
STORE	20595	47362.67	46252.96	940.35	*IG
STORE	20596	47362.21	46261.01	935.95	*TOE
STORE	20597	47362.43	46274.14	935.28	*TOE
STORE	20598	47360.67	46277.07	937.63	*IG
STORE	20599	47358.12	46297.80	938.21	*IG
STORE	20600	47357.58	46310.95	943.44	*IG
STORE	20601	47355.58	46372.08	943.90	*IG
STORE	20602	47355.27	46390.78	944.47	*IG
STORE	20603	47357.37	46445.85	944.36	*IG
STORE	20604	47464.09	46339.44	936.44	*TOE
STORE	20605	47469.52	46357.31	943.83	*IG
STORE	20606	47472.97	46389.61	944.65	*IG
STORE	20607	47477.45	46439.66	944.82	*IG
STORE	20608	47481.72	46469.19	945.41	*IG
STORE	20609	47547.71	46406.33	936.51	*TOE
STORE	20610	47546.30	46420.62	944.09	*IG
STORE	20611	47542.94	46436.58	944.78	*IG

STORE	20612	47543.61	46462.46	945.45	*IG
STORE	20613	47538.35	46492.16	945.41	*IG
STORE	20614	47561.53	46264.23	943.57	*IG
STORE	20615	47563.57	46247.42	943.96	*IG
STORE	20616	47563.99	46239.97	945.22	*TOP CONC
STORE	20617	47563.73	46237.05	943.37	*IC
STORE	20618	47563.55	46235.50	943.38	*IC
STORE	20619	47564.49	46233.67	945.19	*TOP CONC
STORE	20620	47565.28	46229.25	943.23	*IG
STORE	20621	47569.74	46174.84	942.59	*IG
STORE	20622	47450.66	46166.61	943.07	*IG
STORE	20623	47448.15	46146.06	943.44	*IG
STORE	20624	47447.33	46138.72	944.70	*TOP CONC
STORE	20625	47446.33	46131.26	944.62	*TOP CONC
STORE	20626	47446.84	46134.22	942.86	*IC
STORE	20627	47446.48	46135.37	942.84	*IC
STORE	20628	47445.92	46125.87	942.93	*IG
STORE	20629	47243.60	46426.75	943.36	*IG
STORE	20630	47240.36	46455.09	943.54	*IG
STORE	20631	47248.00	46385.45	943.20	*IG
STORE	20632	47250.32	46365.36	942.66	*IG
STORE	20633	47252.44	46344.05	942.69	*IG
STORE	20634	47254.04	46327.37	942.80	*IG
STORE	20635	47257.38	46303.48	942.29	*IG
STORE	20636	47258.82	46293.44	941.32	*IG
STORE	20637	47259.44	46282.05	937.63	*IG
STORE	20638	47260.58	46273.64	937.27	*C/L IG
STORE	20639	47262.98	46252.91	937.15	*IG
STORE	20640	47263.18	46247.60	935.07	*TOE
STORE	20641	47267.26	46239.01	935.36	*TOE
STORE	20642	47266.26	46226.20	943.79	*IG
STORE	20643	47269.79	46197.73	942.38	*IG
STORE	20644	47275.90	46150.80	942.14	*IG
STORE	20645	47226.49	46240.04	936.16	*IH
STORE	20646	47226.34	46241.43	936.17	*IH
STORE	20647	47221.56	46241.88	936.13	*IH
STORE	20648	47219.02	46235.58	937.84	*IH
STORE	20649	47217.98	46232.68	937.86	*IH
STORE	20650	47214.52	46230.69	937.79	*IH
STORE	20651	47216.48	46227.07	937.91	*IH
STORE	20652	47219.95	46229.13	937.93	*IH
STORE	20653	47222.78	46228.35	938.05	*IH
STORE	20654	47216.23	46229.02	932.76	*INV 24INCONCPIPE
STORE	20655	47163.64	46197.91	932.40	*INV 24INCONCPIPE
STORE	20656	47160.84	46200.22	934.44	*IH
STORE	20657	47163.50	46199.42	936.47	*IH
STORE	20658	47164.92	46196.66	936.47	*IH
STORE	20659	47164.34	46194.11	934.64	*IH
STORE	20660	47172.82	46183.59	941.83	*IG
STORE	20661	47173.45	46202.10	941.24	*IG
STORE	20662	47156.98	46209.17	941.52	*IG
STORE	20663	47223.10	46216.74	941.48	*IG
STORE	20664	47208.33	46241.61	938.74	*IG
STORE	20665	47217.84	46049.35	941.26	*GL
STORE	20666	47224.80	46079.81	940.86	*GL
STORE	20667	47112.18	46136.76	941.10	*IG
STORE	20668	47112.39	46110.12	941.67	*IG
STORE	20669	47111.63	46151.24	933.76	*TOE
STORE	20670	47118.48	46166.67	933.94	*TOE
STORE	20671	47113.55	46178.32	941.37	*IG
STORE	20672	47113.73	46267.73	940.68	*IG
STORE	20673	47113.72	46276.01	937.36	*IG
STORE	20674	47113.94	46298.14	936.64	*IG
STORE	20675	47113.53	46304.73	935.57	*IG
STORE	20676	47113.90	46316.38	936.83	*IG
STORE	20677	47113.57	46340.79	937.29	*IG
STORE	20678	47114.21	46373.08	938.85	*IG
STORE	20679	47114.52	46393.57	939.51	*IG
STORE	20680	47113.42	46433.61	939.33	*IG
STORE	20681	47010.23	46433.32	935.91	*IG
STORE	20682	47011.10	46404.32	936.00	*IG
STORE	20683	47011.16	46401.69	936.58	*IG
STORE	20684	47011.70	46383.91	936.62	*IG
STORE	20685	47011.92	46381.66	936.03	*IG
STORE	20686	46974.89	46403.73	934.80	*INV. 12IN PVC
STORE	20687	47004.64	46377.16	934.86	*INV. 12IN PVC
STORE	20688	47012.43	46369.88	935.13	*IG
STORE	20689	47012.33	46358.98	936.20	*IG
STORE	20690	47013.02	46323.61	936.14	*IG

STORE	20691	47014.41	46245.33	940.13	*IG
STORE	20692	47015.59	46202.23	940.90	*IG
STORE	20693	47015.87	46158.84	941.03	*IG
STORE	20694	47016.44	46141.35	941.77	*IG
STORE	20695	47017.16	46114.48	941.84	*IG
STORE	20696	46963.78	46113.23	941.79	*IG
STORE	20697	46962.98	46148.07	941.59	*IG
STORE	20698	46963.16	46161.96	940.69	*IG
STORE	20699	46962.45	46232.76	940.25	*IG
STORE	20700	46959.92	46272.71	938.78	*C/L IG
STORE	20701	46959.87	46347.16	936.17	*IG
STORE	20702	46958.69	46374.81	935.85	*IG
STORE	20703	46958.91	46381.93	936.41	*IG
STORE	20704	46959.15	46401.13	936.11	*IG
STORE	20705	46958.82	46403.07	935.54	*IG
STORE	20706	46958.78	46418.56	935.09	*IG
STORE	20707	46958.02	46429.15	935.88	*IG
STORE	20708	46858.41	46426.36	935.87	*IG
STORE	20709	46859.03	46385.53	936.19	*IG
STORE	20710	46859.39	46330.71	937.29	*IG
STORE	20711	46860.55	46272.95	938.56	*C/L IG
STORE	20712	46861.87	46221.19	939.62	*IG
STORE	20713	46863.41	46167.75	940.44	*IG
STORE	20714	46863.93	46144.94	941.37	*IG
STORE	20715	46864.77	46118.02	941.26	*IG
STORE	20716	46762.68	46115.87	939.71	*IG
STORE	20717	46762.25	46156.25	939.56	*IG
STORE	20718	46761.50	46200.32	938.59	*IG
STORE	20719	46760.75	46238.26	938.64	*IG
STORE	20720	46760.32	46272.79	938.91	*C/L IG
STORE	20721	46759.63	46323.62	938.14	*IG
STORE	20722	46758.82	46374.38	937.32	*IG
STORE	20723	46757.99	46425.19	936.80	*IG
STORE	20724	46662.06	46433.90	937.33	*IG
STORE	20725	46661.86	46381.87	937.93	*IG
STORE	20726	46661.19	46327.53	938.69	*IG
STORE	20727	46660.72	46272.79	938.39	*C/L IG
STORE	20728	46672.06	46266.06	938.44	*GL
STORE	20729	46660.20	46213.25	937.01	*IG
STORE	20730	46659.85	46168.11	938.32	*IG
STORE	20731	46659.67	46120.17	938.83	*IG
STORE	20732	46560.86	46123.59	938.33	*IG
STORE	20733	46560.83	46155.97	938.21	*IG
STORE	20734	46560.73	46187.68	936.74	*IG
STORE	20735	46560.41	46229.49	936.29	*IG
STORE	20736	46560.50	46272.54	937.28	*C/L IG
STORE	20737	46560.52	46325.24	937.53	*IG
STORE	20738	46561.04	46376.05	937.67	*IG
STORE	20739	46560.94	46427.13	938.23	*IG
STORE	20740	46459.86	46439.27	935.52	*IG
STORE	20741	46454.55	46440.63	935.75	*IG
STORE	20742	46448.58	46442.78	938.50	*IG
STORE	20743	46459.68	46386.44	935.16	*IG
STORE	20744	46460.17	46319.78	935.87	*IG
STORE	20745	46460.48	46272.20	935.08	*C/L IG
STORE	20746	46461.03	46213.66	934.98	*IG
STORE	20747	46461.57	46156.19	937.50	*IG
STORE	20748	46461.91	46117.58	937.50	*IG
STORE	20749	46382.39	46272.26	933.47	*IG
STORE	20750	46364.15	46271.89	937.94	*IG
STORE	20751	46360.67	46421.70	938.78	*IG
STORE	20752	46361.33	46370.41	938.48	*IG
STORE	20753	46360.69	46309.10	937.90	*IG
STORE	20754	46360.79	46268.97	938.18	*IG
STORE	20755	46360.31	46252.15	933.19	*IG
STORE	20756	46360.88	46194.62	933.71	*IG
STORE	20757	46358.34	46148.14	935.21	*IG
STORE	20758	46359.06	46113.22	935.20	*IG
STORE	20759	46255.77	46112.57	931.86	*IG
STORE	20760	46256.73	46146.40	931.68	*IG
STORE	20761	46257.76	46177.79	930.43	*IG
STORE	20762	46258.16	46191.40	934.90	*IG
STORE	20763	46259.26	46231.16	936.85	*IG
STORE	20764	46260.34	46259.37	936.56	*IG
STORE	20765	46260.62	46271.99	936.88	*C/L IG
STORE	20766	46261.22	46322.80	937.77	*IG
STORE	20767	46262.04	46375.74	938.12	*IG
STORE	20768	46263.10	46429.68	937.94	*IG
STORE	20769	46162.08	46422.43	936.43	*IG

STORE	20770	46161.76	46371.01	936.64	*IG
STORE	20771	46160.82	46300.31	937.18	*IG
STORE	20772	46160.59	46271.84	936.65	*C/L IG
STORE	20773	46160.38	46259.47	936.53	*IG
STORE	20774	46159.92	46228.09	935.06	*IG
STORE	20775	46160.12	46185.82	936.20	*IG
STORE	20776	46160.50	46170.89	927.84	*IG
STORE	20777	46159.71	46120.53	928.27	*IG
STORE	20778	46138.60	46160.80	927.39	*TOE
STORE	20779	46108.84	46193.07	927.64	*TOE
STORE	20780	46104.75	46272.02	927.76	*TOE
STORE	20781	46106.32	46325.16	928.26	*TOE
STORE	20782	46105.12	46378.23	928.17	*TOE
STORE	20783	46100.67	46427.75	927.44	*TOE
STORE	20784	46123.37	46426.03	936.27	*TOP IG
STORE	20785	46123.17	46376.35	936.31	*TOP IG
STORE	20786	46120.56	46323.75	936.09	*TOP IG
STORE	20787	46120.19	46271.90	935.77	*TOP IG
STORE	20788	46120.72	46229.09	934.65	*TOP IG
STORE	20789	46124.56	46194.57	934.50	*TOP IG
STORE	20790	46044.37	46180.51	926.09	*TOP IG
STORE	20791	46039.42	46185.44	923.04	*TOE
STORE	20792	46055.22	46271.69	925.85	*TOP IG
STORE	20793	46050.90	46273.65	922.68	*TOE
STORE	20794	46062.72	46321.99	925.91	*TOP IG
STORE	20795	46057.73	46322.47	922.04	*TOE
STORE	20796	46070.61	46377.81	926.15	*TOP IG
STORE	20797	46064.40	46378.68	922.53	*TOE
STORE	20798	46074.12	46425.32	925.46	*TOP IG
STORE	20799	46068.89	46424.78	922.71	*TOE
STORE	20800	46023.40	46183.44	924.82	*TOP IG
STORE	20801	46028.45	46183.51	922.86	*TOE
STORE	20802	46037.43	46271.62	924.64	*TOP IG
STORE	20803	46041.66	46270.91	922.61	*TOE
STORE	20804	46049.17	46323.48	922.61	*TOE
STORE	20805	46046.28	46323.94	924.58	*TOP IG
STORE	20806	46052.14	46380.23	924.38	*TOP IG
STORE	20807	46055.84	46379.39	922.32	*TOE
STORE	20808	46058.21	46425.23	922.50	*TOE
STORE	20809	46054.34	46425.16	924.15	*TOP IG
STORE	20810	46028.52	46435.23	923.69	*FL IG
STORE	20811	46021.39	46387.41	924.01	*FL IG 5FTCHAINLK
STORE	20812	46013.18	46333.45	924.14	*FL IG 5FTCHAINLK
STORE	20813	46004.34	46271.99	924.25	*FL IG 5FTCHAINLK
STORE	20814	45997.76	46227.79	924.55	*FL IG 5FTCHAINLK
STORE	20815	45990.39	46177.50	924.28	*FL IG 5FTCHAINLK
STORE	20816	45982.78	46126.13	924.70	*FL IG 5FTCHAINLK
STORE	20817	45971.39	46047.22	924.97	*FC IG
STORE	20818	46047.41	46047.07	926.29	*FL IG
STORE	20819	46042.29	46441.81	924.20	*TOP IG
STORE	20820	46046.27	46445.51	922.46	*TOE
STORE	20821	46025.86	46459.20	924.58	*TOP IG
STORE	20822	46026.81	46464.98	921.78	*TOE
STORE	20823	45997.25	46466.13	923.17	*TOP IG
STORE	20824	45998.39	46471.41	921.97	*TOE
STORE	20825	46027.11	46475.82	924.03	*TOP IG
STORE	20826	46025.05	46472.30	921.94	*TOE
STORE	20827	46057.29	46454.23	924.11	*TOP IG
STORE	20828	46054.10	46452.41	922.56	*TOE
STORE	20829	45970.99	46271.82	920.02	*C/L IG
STORE	20830	45960.44	46271.27	919.54	*C/L IG
STORE	20831	45960.79	46242.68	920.49	*IG
STORE	20832	45957.57	46183.78	923.14	*IG
STORE	20833	45957.87	46205.40	921.34	*IG
STORE	20834	45962.72	46109.12	923.23	*IG
STORE	20835	45945.41	46113.07	921.30	*IG
STORE	20836	45923.01	46114.31	920.85	*IG
STORE	20837	45924.82	46164.97	920.39	*IG
STORE	20838	45930.70	46214.23	919.96	*IG
STORE	20839	45941.14	46271.93	919.61	*C/L IG
STORE	20840	45960.34	46321.49	919.12	*IG
STORE	20841	45953.79	46322.73	919.18	*IG
STORE	20842	45972.78	46322.67	919.43	*IG
STORE	20843	45985.47	46324.30	921.46	*IG
STORE	20844	45956.57	46360.43	919.26	*IG
STORE	20845	45981.36	46361.45	919.08	*IG
STORE	20846	45969.32	46401.09	919.20	*IG
STORE	20847	46004.81	46387.10	922.36	*IG
STORE	20848	45912.58	46114.72	926.01	*TOP IG

STORE	20849	45908.83	46165.75	926.02	*TOP IG
STORE	20850	45914.55	46215.84	926.25	*TOP IG
STORE	20851	45919.93	46269.60	926.55	*TOP IG
STORE	20852	45928.25	46312.10	926.38	*TOP IG
STORE	20853	45936.40	46364.31	926.71	*TOP IG
STORE	20854	45865.28	46506.23	924.53	*PT. 37
STORE	20855	45783.38	46011.00	921.83	*PT. 38
STORE	20856	45944.07	46416.22	926.89	*TOP IG
STORE	20857	45938.09	46464.75	925.69	*TOP IG
STORE	20858	45944.21	46489.27	924.32	*TOP IG
STORE	20859	45917.19	46498.57	926.10	*TOP IG
STORE	20860	45915.67	46484.41	918.60	*TOE
STORE	20861	45915.47	46481.55	918.36	*TOE
STORE	20862	45911.48	46471.67	925.06	*TOP IG
STORE	20863	45889.18	46477.25	924.00	*TOP IG
STORE	20864	45890.69	46482.63	917.72	*TOE
STORE	20865	45863.00	46482.59	923.01	*TOP IG
STORE	20866	45863.96	46492.10	917.51	*TOE
STORE	20867	45864.17	46496.93	916.96	*TOE
STORE	20868	45835.70	46486.91	922.89	*TOP IG
STORE	20869	45835.71	46494.25	916.96	*TOE
STORE	20870	45804.38	46490.05	922.20	*TOP IG
STORE	20871	45804.91	46494.82	916.93	*TOE
STORE	20872	45804.96	46498.45	916.86	*TOE
STORE	20873	45806.51	46506.57	922.95	*TOP IG
STORE	20874	45836.37	46505.43	924.08	*TOP IG
STORE	20875	45835.16	46498.35	916.99	*TOE
STORE	20876	45720.17	46512.41	921.76	*TOP IG
STORE	20877	45721.81	46506.50	916.68	*TOE
STORE	20878	45698.99	46497.60	916.68	*TOE
STORE	20879	45697.31	46502.09	921.30	*TOP IG
STORE	20880	45672.65	46494.42	921.51	*TOP IG
STORE	20881	45673.85	46488.70	916.63	*TOE
STORE	20882	45647.78	46485.51	916.40	*TOE
STORE	20883	45648.33	46492.04	921.17	*TOP IG
STORE	20884	45723.54	46500.46	921.66	*TOP IG
STORE	20885	45722.53	46503.58	916.46	*TOE
STORE	20886	45699.30	46494.16	916.36	*TOE
STORE	20887	45700.58	46491.08	920.82	*TOP IG
STORE	20888	45673.71	46481.64	920.07	*TOP IG
STORE	20889	45673.91	46485.51	916.10	*TOE
STORE	20890	45649.02	46482.87	915.97	*TOE
STORE	20891	45649.19	46479.61	920.58	*TOP IG
STORE	20892	45934.53	46417.62	926.74	*TOP IG
STORE	20893	45929.09	46417.85	925.70	*TOE
STORE	20894	45925.70	46418.54	925.62	*TOE
STORE	20895	45921.20	46419.07	926.80	*TOP
STORE	20896	45918.60	46419.37	927.36	*NTR
STORE	20897	45913.80	46420.59	927.37	*STR
STORE	20898	45910.03	46420.83	926.78	*TOP
STORE	20899	45897.27	46422.32	925.10	*IG
STORE	20900	45888.80	46423.74	922.60	*TOE
STORE	20901	45883.79	46370.39	920.83	*TOE
STORE	20902	45898.49	46370.11	925.14	*IG
STORE	20903	45903.57	46368.51	926.52	*TOP
STORE	20904	45906.11	46368.30	927.09	*STR
STORE	20905	45910.97	46367.39	927.06	*NTR
STORE	20906	45913.58	46366.88	926.53	*TOP
STORE	20907	45917.98	46366.58	925.29	*TOE
STORE	20908	45922.56	46366.12	925.44	*TOE
STORE	20909	45928.99	46365.10	926.46	*TOP IG
STORE	20910	45918.43	46315.10	927.14	*TOP IG
STORE	20911	45913.43	46315.72	925.44	*TOE
STORE	20912	45909.23	46316.28	925.22	*TOE
STORE	20913	45906.04	46316.28	926.27	*TOP
STORE	20914	45903.58	46316.84	926.81	*NTR
STORE	20915	45898.63	46317.55	926.80	*STR
STORE	20916	45896.13	46317.80	926.27	*TOP
STORE	20917	45879.49	46320.51	921.33	*TOE
STORE	20918	45871.05	46271.67	921.14	*TOE
STORE	20919	45874.84	46271.92	922.98	*IG
STORE	20920	45889.28	46271.98	925.97	*TOP
STORE	20921	45891.89	46271.74	926.60	*STR
STORE	20922	45896.87	46271.59	926.64	*NTR
STORE	20923	45899.43	46271.40	926.07	*TOP
STORE	20924	45903.03	46271.38	925.13	*TOE
STORE	20925	45906.18	46271.59	925.21	*TOE
STORE	20926	45911.66	46271.75	926.42	*TOP IG
STORE	20927	45904.01	46217.13	926.39	*TOP IG

STORE	20928	45899.55	46218.34	924.97	*TOE
STORE	20929	45896.22	46218.27	924.70	*TOE
STORE	20930	45891.61	46219.25	925.91	*TOP
STORE	20931	45889.16	46219.33	926.43	*NTR
STORE	20932	45884.35	46220.25	926.45	*STR
STORE	20933	45881.84	46220.51	925.92	*TOP
STORE	20934	45871.23	46221.50	923.50	*IG
STORE	20935	45865.86	46222.06	921.09	*TOE
STORE	20936	45858.27	46172.76	921.64	*TOE
STORE	20937	45874.43	46170.42	925.57	*TOP
STORE	20938	45876.97	46170.18	926.18	*STR
STORE	20939	45881.85	46169.52	926.22	*NTR
STORE	20940	45884.65	46168.86	925.75	*TOP
STORE	20941	45889.26	46168.35	924.59	*TOE
STORE	20942	45892.44	46167.96	924.70	*TOE
STORE	20943	45896.05	46167.75	925.61	*TOP IG
STORE	20944	45889.65	46165.45	924.55	*RR RG
STORE	20945	45897.94	46116.66	925.71	*TOP IG
STORE	20946	45891.32	46117.44	924.05	*TOE
STORE	20947	45881.76	46118.78	924.25	*TOE
STORE	20948	45877.04	46119.77	925.52	*TOP
STORE	20949	45874.68	46120.21	926.08	*NTR
STORE	20950	45869.75	46120.72	926.04	*STR
STORE	20951	45867.15	46121.43	925.50	*TOP
STORE	20952	45850.28	46123.40	922.27	*TOE
STORE	20953	45868.04	46424.85	921.85	*IG
STORE	20954	45843.65	46427.84	921.66	*IG
STORE	20955	45809.86	46431.69	922.28	*IG
STORE	20956	45798.48	46433.02	922.24	*IG
STORE	20957	45796.63	46433.13	921.77	*IG
STORE	20958	45780.85	46434.91	922.34	*RE
STORE	20959	45772.96	46379.97	922.28	*RE
STORE	20960	45789.06	46376.54	921.68	*IG
STORE	20961	45790.92	46375.06	922.11	*IG
STORE	20962	45810.26	46372.53	921.52	*IG
STORE	20963	45836.99	46371.67	921.66	*IG
STORE	20964	45840.78	46371.33	921.65	*IG
STORE	20965	45862.80	46371.15	921.06	*IG
STORE	20966	45857.23	46322.05	920.79	*IG
STORE	20967	45844.39	46322.57	920.42	*IG
STORE	20968	45838.17	46322.77	920.85	*IG
STORE	20969	45810.35	46324.21	921.21	*IG
STORE	20970	45791.08	46325.15	921.99	*IG
STORE	20971	45785.10	46325.85	921.96	*IG
STORE	20972	45784.00	46325.90	921.53	*IG
STORE	20973	45764.73	46325.90	922.36	*RE
STORE	20974	45756.77	46271.08	922.21	*RE
STORE	20975	45774.60	46271.55	921.12	*IG
STORE	20976	45776.97	46271.63	921.49	*IG
STORE	20977	45785.71	46271.59	921.32	*IG
STORE	20978	45810.59	46271.95	920.95	*IG
STORE	20979	45819.58	46272.35	921.38	*IG
STORE	20980	45835.15	46272.44	920.50	*IG
STORE	20981	45832.23	46222.40	920.76	*IG
STORE	20982	45812.00	46222.25	921.46	*IG
STORE	20983	45802.87	46222.32	920.53	*IG
STORE	20984	45777.28	46222.65	921.57	*IG
STORE	20985	45770.05	46222.68	921.36	*IG
STORE	20986	45767.46	46222.53	921.04	*IG
STORE	20987	45749.48	46222.91	922.30	*RE
STORE	20988	45742.24	46173.07	922.27	*RE
STORE	20989	45761.75	46173.53	921.02	*IG
STORE	20990	45774.67	46172.06	921.52	*IG
STORE	20991	45789.61	46172.83	920.88	*IG
STORE	20992	45803.91	46172.41	921.39	*IG
STORE	20993	45810.58	46172.48	920.96	*IG
STORE	20994	45830.64	46172.28	920.95	*IG
STORE	20995	45828.62	46122.34	920.90	*IG
STORE	20996	45810.56	46123.00	920.92	*IG
STORE	20997	45783.07	46122.60	920.90	*IG
STORE	20998	45755.67	46122.87	921.30	*IG
STORE	20999	45754.27	46122.98	920.68	*IG
STORE	21000	45734.86	46122.62	922.31	*RE
STORE	21001	45695.44	46123.33	922.33	*RE
STORE	21002	45714.63	46122.55	922.60	*RC
STORE	21003	45722.08	46173.00	922.57	*RC
STORE	21004	45702.15	46173.04	922.32	*RE
STORE	21005	45709.68	46222.67	922.29	*RE
STORE	21006	45729.18	46222.56	922.55	*RC

STORE	21007	45736.17	46270.89	922.48	*RC
STORE	21008	45716.40	46270.81	922.20	*RE
STORE	21009	45725.22	46327.39	922.35	*RE
STORE	21010	45744.43	46326.61	922.55	*RC
STORE	21011	45751.31	46374.02	922.65	*RC
STORE	21012	45732.01	46374.67	922.48	*RE
STORE	21013	45741.26	46438.99	922.70	*RE
STORE	21014	45760.42	46436.66	922.72	*RC
STORE	21015	45713.27	46420.81	919.90	*IG
STORE	21016	45699.34	46420.58	919.99	*IG
STORE	21017	45680.27	46420.76	920.13	*IG
STORE	21018	45668.84	46420.20	919.80	*IG
STORE	21019	45658.97	46420.24	920.19	*IG
STORE	21020	45635.90	46420.18	920.35	*IG
STORE	21021	45611.80	46420.05	920.82	*IG
STORE	21022	45586.16	46419.62	921.26	*IG
STORE	21023	45560.97	46419.20	922.30	*IG
STORE	21024	45535.50	46418.54	922.74	*IG
STORE	21025	45523.66	46418.51	922.23	*TOP IG
STORE	21026	45512.07	46418.63	915.37	*TOE
STORE	21027	45484.84	46370.01	915.65	*TOE
STORE	21028	45505.12	46369.67	921.95	*TOP IG
STORE	21029	45535.92	46369.70	923.26	*IG
STORE	21030	45561.13	46369.73	922.13	*IG
STORE	21031	45585.79	46369.60	921.01	*IG
STORE	21032	45611.56	46370.09	920.79	*IG
STORE	21033	45636.19	46369.83	920.46	*IG
STORE	21034	45659.43	46370.25	920.22	*IG
STORE	21035	45661.10	46370.08	919.75	*IG
STORE	21036	45675.49	46370.33	918.97	*IG
STORE	21037	45703.54	46370.71	919.79	*IG
STORE	21038	45707.05	46320.61	920.16	*IG
STORE	21039	45694.01	46320.57	919.55	*IG
STORE	21040	45691.96	46321.02	918.76	*IG
STORE	21041	45683.16	46321.56	918.63	*IG
STORE	21042	45666.78	46321.00	919.75	*IG
STORE	21043	45660.17	46320.58	919.84	*IG
STORE	21044	45635.79	46320.21	920.26	*IG
STORE	21045	45611.21	46320.24	920.64	*IG
STORE	21046	45585.87	46319.94	920.73	*IG
STORE	21047	45560.73	46319.43	920.64	*IG
STORE	21048	45535.58	46319.18	921.22	*IG
STORE	21049	45518.68	46318.58	922.79	*IG
STORE	21050	45488.07	46318.21	921.87	*TOP IG
STORE	21051	45470.42	46319.24	915.14	*TOE
STORE	21052	45457.34	46271.48	915.25	*TOE
STORE	21053	45473.06	46271.12	921.96	*TOP IG
STORE	21054	45500.63	46270.88	922.54	*IG
STORE	21055	45535.58	46270.91	920.26	*IG
STORE	21056	45560.67	46270.84	920.15	*IG
STORE	21057	45585.69	46271.43	919.83	*IG
STORE	21058	45610.71	46271.25	920.00	*IG
STORE	21059	45635.78	46271.25	919.77	*IG
STORE	21060	45660.84	46271.16	919.26	*IG
STORE	21061	45679.98	46270.61	918.27	*IG
STORE	21062	45685.97	46270.82	918.87	*IG
STORE	21063	45687.68	46270.87	919.49	*IG
STORE	21064	45710.63	46270.74	921.30	*IG
STORE	21065	45688.51	46220.10	919.68	*IG
STORE	21066	45675.10	46220.71	919.24	*IG
STORE	21067	45667.20	46220.49	918.24	*IG
STORE	21068	45660.14	46220.69	918.18	*IG
STORE	21069	45635.47	46221.34	919.39	*IG
STORE	21070	45610.46	46221.75	919.59	*IG
STORE	21071	45585.32	46221.49	919.68	*IG
STORE	21072	45560.68	46222.34	919.36	*IG
STORE	21073	45535.88	46222.80	919.56	*IG
STORE	21074	45513.52	46223.00	920.18	*IG
STORE	21075	45485.26	46223.61	922.29	*IG
STORE	21076	45456.89	46223.87	921.71	*TOP IG
STORE	21077	45440.23	46223.67	915.06	*TOE
STORE	21078	45424.52	46189.42	915.36	*TOE
STORE	21079	45444.83	46187.42	922.10	*TOP IG
STORE	21080	45470.08	46185.91	922.24	*IG
STORE	21081	45500.37	46182.78	919.70	*IG
STORE	21082	45535.93	46180.06	919.14	*IG
STORE	21083	45560.82	46177.49	919.21	*IG
STORE	21084	45609.88	46173.32	919.27	*IG
STORE	21085	45635.36	46171.36	918.73	*IG

STORE	21086	45659.95	46169.17	918.55	*IG
STORE	21087	45681.38	46167.32	919.64	*IG
STORE	21088	45674.08	46119.79	919.51	*IG
STORE	21089	45660.39	46120.71	919.04	*IG
STORE	21090	45649.59	46121.12	918.39	*IG
STORE	21091	45635.04	46121.46	918.26	*IG
STORE	21092	45609.83	46122.15	918.97	*IG
STORE	21093	45585.13	46122.70	919.31	*IG
STORE	21094	45560.50	46122.91	918.87	*IG
STORE	21095	45536.12	46123.77	918.91	*IG
STORE	21096	45504.71	46125.38	918.75	*IG
STORE	21097	45443.20	46126.34	921.75	*IG
STORE	21098	45422.34	46128.24	921.15	*IG
STORE	21099	45413.92	46270.89	921.59	*TRV PT. 241
STORE	21100	46105.22	46108.60	926.86	*TOP IG
STORE	21101	46105.03	46100.96	922.86	*INV 60INSTEELPIP
STORE	21102	46104.69	46090.70	927.09	*TOP IG
STORE	21103	46103.99	46047.70	927.48	*FL IG
STORE	21104	46145.63	46047.14	928.99	*FL IG
STORE	21105	46145.85	46089.94	927.76	*TOP IG
STORE	21106	46147.41	46110.79	928.16	*TOP IG
STORE	21107	46146.41	46098.72	922.68	*INV 60INSTEELPIP
STORE	21108	46159.51	46774.06	936.09	*TOP IG
STORE	21109	46139.05	46778.40	925.84	*TOE
STORE	21110	46089.17	46789.88	924.33	*IG
STORE	21111	46085.69	46790.54	924.91	*FL IG
STORE	21112	46064.52	46680.79	924.50	*FL IG
STORE	21113	46108.80	46672.25	924.49	*IG
STORE	21114	46113.17	46672.09	925.71	*IG
STORE	21115	46119.24	46671.37	926.21	*TOE
STORE	21116	46140.24	46667.96	935.92	*TOP IG
STORE	21117	46129.26	46565.17	935.97	*TOP IG
STORE	21118	46104.84	46568.29	926.02	*TOE
STORE	21119	46096.51	46569.17	924.95	*IG
STORE	21120	46051.53	46575.04	923.85	*IG
STORE	21121	46049.06	46575.63	924.37	*FL IG
STORE	21122	46046.45	46575.81	924.22	*IG
STORE	21123	46040.12	46577.80	921.50	*IG
STORE	21124	46027.39	46575.25	921.14	*IG
STORE	21125	46008.92	46585.35	928.24	*IG
STORE	21126	46000.20	46583.60	928.16	*IG
STORE	21127	45987.23	46584.72	922.52	*IG
STORE	21128	45968.41	46589.04	921.70	*TOE IG
STORE	21129	45952.97	46592.76	927.03	*TOP IG
STORE	21130	45961.48	46685.19	928.10	*TOP
STORE	21131	45980.40	46680.61	922.31	*TOE
STORE	21132	46008.02	46685.43	923.41	*TOE
STORE	21133	46016.92	46683.53	928.08	*TOP IG
STORE	21134	46025.94	46682.91	928.14	*TOP IG
STORE	21135	46039.74	46681.53	922.22	*TOE
STORE	21136	46057.60	46681.29	922.10	*TOE
STORE	21137	46076.69	46791.88	921.61	*TOE
STORE	21138	46067.47	46794.09	921.26	*TOE
STORE	21139	46046.48	46795.90	928.45	*TOP IG
STORE	21140	46036.72	46798.06	928.27	*TOP IG
STORE	21141	46023.26	46801.02	923.50	*TOE
STORE	21142	45999.69	46804.73	922.95	*TOE
STORE	21143	45990.36	46806.60	927.97	*TOP IG
STORE	21144	44710.39	46107.39	920.00	*IG
STORE	21145	44705.35	46107.77	921.26	*IG
STORE	21146	44693.23	46108.44	918.84	*IG
STORE	21147	44659.51	46107.92	918.61	*IG
STORE	21148	44655.67	46107.44	919.13	*TOP CONC
STORE	21149	44650.72	46107.54	918.96	*TOP CONC
STORE	21150	44652.66	46107.16	917.27	*IC
STORE	21151	44653.65	46107.14	917.31	*IC
STORE	21152	44645.34	46107.18	917.53	*IG
STORE	21153	44681.44	46043.75	919.44	*SM
STORE	21154	44646.37	46164.88	917.58	*IG
STORE	21155	44650.99	46164.03	919.16	*TOP CONC
STORE	21156	44655.77	46164.26	919.39	*TOP CONC
STORE	21157	44653.98	46164.48	917.46	*IC
STORE	21158	44652.98	46164.41	917.43	*IC
STORE	21159	44664.81	46163.55	918.38	*IG
STORE	21160	44664.73	46176.95	919.07	*EP
STORE	21161	44664.28	46201.60	918.96	*EG
STORE	21162	44696.43	46164.33	919.05	*IG
STORE	21163	44706.16	46164.45	921.44	*IG
STORE	21164	44711.25	46164.66	919.97	*IG

STORE	21165	44712.05	46216.77	919.92	*IG
STORE	21166	44706.53	46216.32	921.34	*IG
STORE	21167	44697.84	46216.69	918.91	*IG
STORE	21168	44661.90	46216.61	918.71	*IG
STORE	21169	44660.45	46216.32	919.23	*IG
STORE	21170	44656.07	46216.21	919.59	*TOP CONC
STORE	21171	44651.26	46216.03	919.19	*TOP CONC
STORE	21172	44654.21	46215.93	917.61	*IC
STORE	21173	44653.30	46215.74	917.53	*IC
STORE	21174	44647.06	46215.87	918.14	*IG
STORE	21175	44647.74	46269.87	918.00	*IG
STORE	21176	44651.94	46269.52	919.45	*TOP CONC
STORE	21177	44656.83	46269.52	919.41	*TOP CONC
STORE	21178	44653.88	46269.56	917.64	*IC
STORE	21179	44654.85	46269.68	917.62	*IC
STORE	21180	44660.62	46269.69	918.57	*IG
STORE	21181	44706.65	46269.49	921.49	*IG
STORE	21182	44712.72	46269.08	920.04	*IG
STORE	21183	44684.65	46484.26	919.03	*SM
STORE	21184	44713.45	46427.16	920.10	*IG
STORE	21185	44708.03	46427.08	921.46	*IG
STORE	21186	44698.81	46427.07	919.06	*IG
STORE	21187	44661.08	46427.54	919.03	*IG
STORE	21188	44657.93	46428.08	919.91	*TOP CONC
STORE	21189	44653.11	46429.29	919.88	*TOP CONC
STORE	21190	44654.93	46429.06	918.12	*IC
STORE	21191	44655.97	46429.08	918.12	*IC
STORE	21192	44648.60	46429.31	919.09	*IG
STORE	21193	44648.46	46374.67	918.47	*IG
STORE	21194	44652.73	46374.62	919.78	*TOP CONC
STORE	21195	44657.55	46374.80	919.82	*TOP CONC
STORE	21196	44654.71	46375.24	918.04	*IC
STORE	21197	44655.64	46375.25	918.04	*IC
STORE	21198	44660.21	46375.71	919.14	*IG
STORE	21199	44698.01	46375.92	918.60	*IG
STORE	21200	44707.93	46375.66	921.43	*IG
STORE	21201	44713.68	46375.68	919.96	*IG
STORE	21202	44713.73	46322.83	920.07	*IG
STORE	21203	44707.49	46323.12	921.43	*IG
STORE	21204	44696.42	46322.56	918.81	*IG
STORE	21205	44659.08	46322.89	918.81	*IG
STORE	21206	44657.30	46323.32	919.67	*TOP CONC
STORE	21207	44652.30	46323.54	919.68	*TOP CONC
STORE	21208	44654.22	46323.76	917.93	*IC
STORE	21209	44655.27	46323.91	917.89	*IC
STORE	21210	44648.51	46324.26	918.72	*IG
STORE	21211	44552.55	46117.30	917.60	*IG
STORE	21212	44554.81	46169.03	917.76	*IG
STORE	21213	44557.93	46224.73	918.00	*IG
STORE	21214	44560.47	46270.16	918.05	*C/L IG
STORE	21215	44564.10	46326.72	918.45	*IG
STORE	21216	44567.72	46379.04	918.49	*IG
STORE	21217	44563.74	46428.44	918.69	*IG
STORE	21218	44459.88	46428.42	918.38	*IG
STORE	21219	44460.92	46354.17	918.20	*IG
STORE	21220	44460.32	46270.56	917.81	*C/L IG
STORE	21221	44458.37	46192.77	917.42	*IG
STORE	21222	44458.29	46118.70	917.41	*IG
STORE	21223	44355.82	46120.23	917.27	*IG
STORE	21224	44357.33	46193.33	917.21	*IG
STORE	21225	44360.56	46270.99	917.37	*C/L IG
STORE	21226	44362.15	46344.50	917.83	*IG
STORE	21227	44363.19	46421.97	918.22	*IG
STORE	21228	44263.89	46424.03	917.92	*IG
STORE	21229	44262.50	46349.34	917.61	*IG
STORE	21230	44260.07	46271.66	917.24	*C/L IG
STORE	21231	44258.19	46195.74	917.00	*IG
STORE	21232	44255.69	46121.64	916.98	*IG
STORE	21233	44157.05	46123.75	916.78	*IG
STORE	21234	44157.47	46197.79	916.66	*IG
STORE	21235	44160.39	46272.31	916.99	*C/L IG
STORE	21236	44161.59	46343.19	917.32	*IG
STORE	21237	44163.80	46418.18	917.58	*IG
STORE	21238	45383.13	46128.11	922.46	*TOP IG
STORE	21239	45359.98	46127.79	921.71	*IG
STORE	21240	45353.10	46127.62	919.96	*IG
STORE	21241	45405.08	46191.91	922.66	*TOP IG
STORE	21242	45382.83	46193.91	921.94	*IG
STORE	21243	45375.62	46193.96	919.82	*IG

STORE	21244	45418.04	46224.38	922.77	*TOP IG
STORE	21245	45394.00	46225.24	921.72	*IG
STORE	21246	45386.70	46226.15	920.16	*IG
STORE	21247	45436.35	46271.06	922.75	*TOP IG
STORE	21248	45405.39	46270.46	920.27	*IG
STORE	21249	45451.89	46318.61	923.52	*TOP IG
STORE	21250	45429.42	46318.58	922.45	*IG
STORE	21251	45420.66	46319.13	920.02	*IG
STORE	21252	45466.50	46369.97	923.48	*TOP IG
STORE	21253	45447.11	46369.09	922.86	*IG
STORE	21254	45436.91	46368.72	920.17	*IG
STORE	21255	45451.41	46417.28	920.00	*IG
STORE	21256	45464.94	46417.06	923.46	*IG
STORE	21257	45482.83	46417.86	923.51	*TOP IG
STORE	21258	45054.08	46419.55	919.90	*IG
STORE	21259	45056.39	46370.51	919.90	*IG
STORE	21260	45058.54	46320.26	919.96	*IG
STORE	21261	45060.69	46270.05	919.96	*C/L IG
STORE	21262	45063.20	46217.74	919.87	*IG
STORE	21263	45065.97	46165.40	919.93	*IG
STORE	21264	45067.97	46109.80	919.85	*IG
STORE	21265	45164.82	46109.16	919.81	*IG
STORE	21266	45162.86	46184.23	919.88	*IG
STORE	21267	45160.35	46270.30	919.89	*C/L IG
STORE	21268	45158.88	46342.45	919.89	*IG
STORE	21269	45157.40	46415.06	919.84	*IG
STORE	21270	45253.11	46414.07	919.92	*IG
STORE	21271	45257.17	46343.56	919.98	*IG
STORE	21272	45260.24	46270.39	919.96	*C/L IG
STORE	21273	45264.32	46199.15	919.88	*IG
STORE	21274	45267.88	46127.19	919.84	*IG
STORE	21275	45268.67	46098.91	919.87	*IG
STORE	21276	45362.84	46204.45	919.95	*IG
STORE	21277	45360.39	46270.59	919.84	*C/L IG
STORE	21278	45358.78	46346.09	919.95	*IG
STORE	21279	45356.28	46419.71	919.88	*IG
STORE	21280	44962.12	46119.48	919.83	*IG
STORE	21281	44963.47	46194.55	919.86	*IG
STORE	21282	44962.89	46270.05	919.96	*C/L IG
STORE	21283	44963.68	46343.88	919.86	*IG
STORE	21284	44965.07	46420.36	919.84	*IG
STORE	21285	44862.66	46423.60	919.94	*IG
STORE	21286	44861.95	46348.72	919.99	*IG
STORE	21287	44860.51	46269.64	919.92	*C/L IG
STORE	21288	44860.75	46217.80	919.89	*IG
STORE	21289	44861.11	46123.91	919.72	*IG
STORE	21290	44758.95	46120.28	920.01	*IG
STORE	21291	44759.61	46194.31	919.91	*IG
STORE	21292	44760.16	46269.52	919.90	*C/L IG
STORE	21293	44760.86	46338.47	919.91	*IG
STORE	21294	44759.94	46420.98	919.99	*IG
STORE	21295	44061.31	46130.30	916.46	*IG
STORE	21296	44059.99	46200.56	916.41	*IG
STORE	21297	44059.98	46272.07	916.75	*C/L IG
STORE	21298	44059.91	46343.49	917.08	*IG
STORE	21299	44064.58	46428.20	917.33	*IG
STORE	21300	43966.90	46414.64	916.89	*IG
STORE	21301	43964.13	46342.58	916.86	*IG
STORE	21302	43960.51	46272.65	916.56	*C/L IG
STORE	21303	43956.70	46199.02	916.27	*IG
STORE	21304	43953.96	46126.80	916.15	*IG
STORE	21305	43856.38	46127.24	916.00	*IG
STORE	21306	43857.93	46196.90	916.09	*IG
STORE	21307	43859.57	46273.06	916.31	*C/L IG
STORE	21308	43861.62	46346.03	916.58	*IG
STORE	21309	43863.86	46417.38	916.60	*IG
STORE	21310	43767.50	46418.82	916.29	*IG
STORE	21311	43763.88	46346.18	916.29	*IG
STORE	21312	43760.51	46273.83	916.04	*C/L IG
STORE	21313	43756.87	46201.98	915.76	*IG
STORE	21314	43753.91	46132.21	915.74	*IG
STORE	21315	43754.09	46110.27	915.56	*IG
STORE	21316	43657.97	46110.03	915.22	*IG
STORE	21317	43658.93	46181.75	915.47	*IG
STORE	21318	43659.80	46274.18	915.82	*C/L IG
STORE	21319	43660.26	46346.62	916.02	*IG
STORE	21320	43660.36	46426.30	916.18	*IG
STORE	21321	43562.86	46428.68	915.90	*IG
STORE	21322	43562.07	46357.90	915.69	*IG

STORE	21323	43560.57	46274.40	915.56	*C/L IG
STORE	21324	43559.90	46200.42	915.28	*IG
STORE	21325	43559.08	46127.51	915.12	*IG
STORE	21326	43459.57	46126.44	914.96	*IG
STORE	21327	43459.44	46197.42	915.04	*IG
STORE	21328	43459.61	46274.89	915.20	*C/L IG
STORE	21329	43459.71	46348.40	915.43	*IG
STORE	21330	43459.53	46422.36	915.67	*IG
STORE	21331	43430.18	46124.00	914.91	*IG
STORE	21332	43421.65	46124.33	916.39	*IG
STORE	21333	43409.77	46124.91	915.18	*IG
STORE	21334	43382.32	46125.43	914.89	*IG
STORE	21335	43359.53	46125.88	915.27	*IG
STORE	21336	43354.20	46125.64	916.19	*TOP CONC
STORE	21337	43349.20	46125.26	916.15	*TOP CONC
STORE	21338	43352.26	46125.23	914.23	*IC
STORE	21339	43351.30	46125.00	914.21	*IC
STORE	21340	43344.65	46124.51	914.45	*IG
STORE	21341	43344.81	46201.66	914.38	*IG
STORE	21342	43349.52	46202.45	916.27	*TOP CONC
STORE	21343	43354.61	46202.38	916.28	*TOP CONC
STORE	21344	43352.42	46202.64	914.36	*IC
STORE	21345	43351.58	46202.59	914.34	*IC
STORE	21346	43358.66	46202.72	915.58	*IG
STORE	21347	43374.38	46202.69	914.89	*IG
STORE	21348	43408.28	46201.77	914.76	*IG
STORE	21349	43410.76	46201.80	915.69	*IG
STORE	21350	43422.60	46201.61	916.13	*IG
STORE	21351	43428.17	46201.41	915.35	*IG
STORE	21352	43429.95	46275.52	915.57	*IG
STORE	21353	43423.65	46275.47	916.54	*IG
STORE	21354	43412.29	46275.74	915.66	*IG
STORE	21355	43363.43	46275.89	914.95	*IG
STORE	21356	43354.96	46276.43	916.48	*TOP CONC
STORE	21357	43349.94	46275.82	916.33	*TOP CONC
STORE	21358	43346.02	46275.59	914.69	*IG
STORE	21359	43351.96	46276.05	914.46	*IC
STORE	21360	43352.95	46276.02	914.51	*IC
STORE	21361	43431.85	46425.14	915.67	*IG
STORE	21362	43425.81	46425.80	916.68	*IG
STORE	21363	43414.41	46426.02	916.15	*IG
STORE	21364	43408.19	46425.75	915.11	*IG
STORE	21365	43379.85	46425.54	914.73	*IG
STORE	21366	43360.72	46426.28	915.67	*IG
STORE	21367	43355.31	46426.30	916.88	*TOP CONC
STORE	21368	43350.11	46426.49	916.85	*TOP CONC
STORE	21369	43352.26	46426.90	914.92	*IC
STORE	21370	43353.21	46426.87	914.93	*IC
STORE	21371	43345.97	46426.20	914.95	*IG
STORE	21372	43346.17	46350.55	914.85	*IG
STORE	21373	43349.91	46351.16	916.64	*TOP CONC
STORE	21374	43355.08	46351.85	916.66	*TOP CONC
STORE	21375	43359.36	46350.47	915.46	*IG
STORE	21376	43352.04	46353.04	914.71	*IC
STORE	21377	43353.08	46353.03	914.72	*IC
STORE	21378	43408.63	46348.77	914.90	*IG
STORE	21379	43415.25	46348.68	916.19	*IG
STORE	21380	43425.06	46348.53	916.62	*IG
STORE	21381	43431.67	46348.54	915.51	*IG
STORE	21382	42863.51	46129.64	913.50	*IG
STORE	21383	42863.53	46112.25	913.43	*IG
STORE	21384	42862.50	46186.97	913.64	*IG
STORE	21385	42860.40	46278.03	913.79	*C/L IG
STORE	21386	42858.77	46353.25	913.97	*IG
STORE	21387	42858.28	46427.17	913.85	*IG
STORE	21388	42957.29	46427.35	914.15	*IG
STORE	21389	42959.17	46350.35	914.22	*IG
STORE	21390	42960.44	46277.43	913.98	*C/L IG
STORE	21391	42961.53	46203.81	913.86	*IG
STORE	21392	42961.48	46121.13	913.58	*IG
STORE	21393	43057.58	46119.65	913.84	*IG
STORE	21394	43059.15	46201.36	914.08	*IG
STORE	21395	43061.21	46277.14	914.16	*C/L IG
STORE	21396	43062.64	46351.67	914.24	*IG
STORE	21397	43063.41	46424.32	914.37	*IG
STORE	21398	43158.30	46422.18	914.62	*IG
STORE	21399	43162.90	46350.02	914.52	*IG
STORE	21400	43161.11	46276.68	914.35	*C/L IG
STORE	21401	43157.92	46202.92	914.15	*IG

STORE	21402	43155.16	46122.79	913.97	*IG
STORE	21403	43252.06	46119.64	914.11	*IG
STORE	21404	43256.22	46194.73	914.58	*IG
STORE	21405	43260.04	46276.11	914.58	*C/L IG
STORE	21406	43260.70	46351.36	914.86	*IG
STORE	21407	43260.44	46422.37	914.81	*IG
STORE	21408	42757.23	46128.77	913.21	*IG
STORE	21409	42757.08	46112.33	913.22	*IG
STORE	21410	42758.61	46189.85	913.48	*IG
STORE	21411	42759.41	46278.78	913.59	*C/L IG
STORE	21412	42760.89	46356.87	913.78	*IG
STORE	21413	42763.51	46433.15	913.81	*IG
STORE	21414	42662.66	46423.45	913.64	*IG
STORE	21415	42661.48	46354.64	913.55	*IG
STORE	21416	42660.37	46279.04	913.37	*C/L IG
STORE	21417	42658.57	46204.73	913.19	*IG
STORE	21418	42657.74	46109.92	913.22	*IG
STORE	21419	42557.26	46122.01	912.84	*IG
STORE	21420	42558.55	46194.82	912.97	*IG
STORE	21421	42560.77	46279.35	913.19	*C/L IG
STORE	21422	42562.99	46356.94	913.40	*IG
STORE	21423	42565.16	46420.47	913.36	*IG
STORE	21424	42465.83	46418.41	913.20	*IG
STORE	21425	42463.01	46346.21	912.99	*IG
STORE	21426	42460.44	46279.90	912.98	*C/L IG
STORE	21427	42458.96	46205.20	912.81	*IG
STORE	21428	42456.10	46123.14	912.68	*IG
STORE	21429	42355.47	46123.41	912.54	*IG
STORE	21430	42358.30	46199.08	912.52	*IG
STORE	21431	42360.83	46280.49	912.79	*C/L IG
STORE	21432	42359.94	46359.03	912.84	*IG
STORE	21433	42361.06	46432.11	912.95	*IG
STORE	21434	42264.81	46432.77	912.78	*IG
STORE	21435	42262.75	46350.65	912.51	*IG
STORE	21436	42260.44	46280.79	912.54	*C/L IG
STORE	21437	42258.99	46203.13	912.29	*IG
STORE	21438	42257.73	46128.64	912.41	*IG
STORE	21439	42159.60	46128.96	912.16	*IG
STORE	21440	42160.29	46202.98	912.12	*IG
STORE	21441	42160.76	46281.22	912.42	*C/L IG
STORE	21442	42160.77	46354.49	912.41	*IG
STORE	21443	42160.58	46427.57	912.57	*IG
STORE	21444	42068.98	46430.00	912.33	*IG
STORE	21445	42063.70	46430.94	913.66	*IG
STORE	21446	42060.26	46431.10	911.95	*IG
STORE	21447	42056.51	46431.83	911.94	*IG
STORE	21448	42052.92	46431.66	913.37	*IG
STORE	21449	42050.61	46432.09	912.81	*IG
STORE	21450	42032.25	46432.33	912.74	*IG
STORE	21451	42029.03	46432.72	913.33	*TOP CONC
STORE	21452	42023.40	46432.58	913.26	*TOP CONC
STORE	21453	42018.45	46433.34	911.93	*IG
STORE	21454	42025.82	46432.74	911.12	*IC
STORE	21455	42026.72	46432.78	911.16	*IC
STORE	21456	42068.52	46359.09	912.11	*IG
STORE	21457	42063.07	46359.16	913.75	*IG
STORE	21458	42058.71	46359.42	911.78	*IG
STORE	21459	42055.59	46359.62	911.80	*IG
STORE	21460	42052.24	46359.54	913.36	*IG
STORE	21461	42049.50	46359.58	912.73	*IG
STORE	21462	42032.15	46358.88	912.69	*IG
STORE	21463	42028.61	46358.82	913.30	*TOP CONC
STORE	21464	42023.06	46358.82	913.30	*TOP CONC
STORE	21465	42018.83	46358.83	911.93	*IG
STORE	21466	42025.38	46358.48	911.17	*IC
STORE	21467	42026.35	46358.58	911.16	*IC
STORE	21468	42017.97	46281.29	911.67	*IG
STORE	21469	42022.81	46281.87	913.26	*TOP CONC
STORE	21470	42028.46	46281.60	913.27	*TOP CONC
STORE	21471	42025.07	46281.37	911.10	*IC
STORE	21472	42026.12	46281.38	911.09	*IC
STORE	21473	42031.54	46281.69	912.76	*IG
STORE	21474	42051.31	46281.76	912.88	*IG
STORE	21475	42052.06	46281.87	913.47	*IG
STORE	21476	42056.31	46281.47	911.52	*IG
STORE	21477	42057.80	46282.04	911.55	*IG
STORE	21478	42062.78	46281.74	913.62	*IG
STORE	21479	42068.00	46281.80	912.09	*IG
STORE	21480	42066.50	46132.28	912.12	*IG

STORE	21481	42063.07	46131.46	913.21	*IG
STORE	21482	42058.21	46130.79	911.22	*IG
STORE	21483	42056.81	46130.76	911.19	*IG
STORE	21484	42052.27	46130.94	913.34	*IG
STORE	21485	42048.54	46130.76	912.78	*IG
STORE	21486	42031.91	46130.08	912.66	*IG
STORE	21487	42028.02	46129.99	913.09	*TOP CONC
STORE	21488	42022.29	46130.26	913.08	*TOP CONC
STORE	21489	42016.14	46130.37	911.96	*IG
STORE	21490	42024.62	46130.12	910.97	*IC
STORE	21491	42025.66	46130.10	910.99	*IC
STORE	21492	42017.59	46208.31	911.66	*IG
STORE	21493	42022.59	46208.21	913.18	*TOP CONC
STORE	21494	42028.11	46208.45	913.26	*TOP CONC
STORE	21495	42025.90	46208.35	911.07	*IC
STORE	21496	42024.92	46208.26	911.06	*IC
STORE	21497	42032.19	46208.54	912.70	*IG
STORE	21498	42049.67	46208.85	912.66	*IG
STORE	21499	42051.90	46208.92	913.24	*IG
STORE	21500	42056.65	46209.05	911.39	*IG
STORE	21501	42057.99	46209.10	911.38	*IG
STORE	21502	42062.66	46209.29	913.58	*IG
STORE	21503	42067.40	46209.60	912.12	*IG
STORE	21504	41954.13	46431.28	911.67	*IG
STORE	21505	41957.26	46355.84	911.68	*IG
STORE	21506	41960.46	46281.93	911.63	*C/L IG
STORE	21507	41962.78	46207.87	911.66	*IG
STORE	21508	41965.00	46133.99	911.60	*IG
STORE	21509	41871.46	46121.38	911.73	*IG
STORE	21510	41866.49	46191.37	911.59	*IG
STORE	21511	41860.65	46282.42	911.70	*C/L IG
STORE	21512	41857.83	46354.99	911.73	*IG
STORE	21513	41854.10	46422.53	911.64	*IG
STORE	21514	41753.78	46419.11	911.80	*IG
STORE	21515	41757.17	46347.18	911.74	*IG
STORE	21516	41760.73	46282.45	911.64	*C/L IG
STORE	21517	41764.36	46207.79	911.64	*IG
STORE	21518	41768.70	46114.66	911.75	*IG
STORE	21519	41773.02	46138.92	912.69	*TOWER
STORE	21520	41775.58	46161.02	912.69	*TOWER
STORE	21521	41804.33	46157.42	912.66	*TOWER
STORE	21522	41801.55	46135.56	912.65	*TOWER
STORE	21523	41698.00	46185.38	914.10	*C/L 9FT MH
STORE	21524	41690.25	46180.70	912.89	*SERVICE PANEL
STORE	21525	41651.11	46436.28	911.72	*IG
STORE	21526	41655.56	46360.37	911.70	*IG
STORE	21527	41660.14	46282.43	911.72	*C/L IG
STORE	21528	41663.93	46206.80	911.75	*IG
STORE	21529	41667.23	46139.00	911.62	*IG
STORE	21530	41590.61	46108.42	912.00	*IG
STORE	21531	41577.74	46186.04	911.61	*IG
STORE	21532	41560.67	46281.62	911.61	*C/L IG
STORE	21533	41556.12	46356.59	911.70	*IG
STORE	21534	41542.40	46427.84	911.66	*IG
STORE	21535	41511.23	46430.39	911.80	*IG
STORE	21536	41508.26	46429.87	912.40	*IG
STORE	21537	41498.09	46427.39	912.13	*TOP IG
STORE	21538	41494.08	46426.74	907.61	*TOE
STORE	21539	41510.45	46351.75	907.91	*TOE
STORE	21540	41515.77	46353.01	912.92	*TOP IG
STORE	21541	41523.89	46354.93	912.40	*IG
STORE	21542	41525.97	46355.16	911.75	*IG
STORE	21543	41541.03	46283.55	911.75	*IG
STORE	21544	41537.32	46282.33	912.55	*IG
STORE	21545	41528.19	46281.38	911.62	*TOP IG
STORE	21546	41525.56	46280.96	908.22	*TOE
STORE	21547	41538.27	46209.83	908.22	*TOE
STORE	21548	41541.27	46210.11	911.49	*TOP IG
STORE	21549	41545.03	46210.61	912.97	*IG
STORE	21550	41555.82	46211.89	911.84	*IG
STORE	21551	41569.24	46136.89	911.71	*IG
STORE	21552	41558.26	46136.96	913.38	*IG
STORE	21553	41530.98	46282.28	912.74	*IG
STORE	21554	41541.51	46132.57	913.64	*TOP IG
STORE	21555	41528.40	46129.93	914.05	*TOP IG
STORE	21556	41523.51	46129.19	911.94	*IG
STORE	21557	41534.47	46209.12	908.18	*TOE
STORE	21558	41528.75	46208.51	912.62	*TOP IG
STORE	21559	41513.30	46205.46	913.04	*IG

STORE	21560	41521.15	46281.16	907.66	*TOE
STORE	21561	41516.97	46280.39	912.10	*TOP IG
STORE	21562	41500.85	46279.77	912.95	*IG
STORE	21563	41494.96	46278.90	910.30	*IG
STORE	21564	41480.71	46345.78	910.56	*IG
STORE	21565	41484.74	46346.70	912.46	*TOP IG
STORE	21566	41502.38	46350.27	911.89	*TOP IG
STORE	21567	41505.67	46351.25	907.81	*TOE
STORE	21568	41489.87	46425.39	907.76	*TOE
STORE	21569	41485.42	46425.01	911.77	*TOP IG
STORE	21570	41468.66	46421.80	912.50	*IG
STORE	21571	41465.01	46421.25	910.77	*IG
STORE	21572	41508.97	46205.00	910.61	*IG
STORE	21573	41548.12	46134.94	908.33	*TOE
STORE	21574	41551.41	46137.41	908.29	*TOE
STORE	21575	41127.81	46372.67	907.95	*IG
STORE	21576	41097.65	46366.30	907.01	*IG
STORE	21577	41161.35	46375.69	904.90	*IG
STORE	21578	41189.08	46376.87	903.40	*IG
STORE	21579	41201.33	46384.49	903.39	*IG
STORE	21580	41236.87	46387.55	914.25	*IG
STORE	21581	41254.64	46388.51	910.75	*IG
STORE	21582	41298.75	46210.83	907.75	*IG
STORE	21583	41298.11	46205.48	906.33	*IG
STORE	21584	41298.56	46192.80	905.87	*IG
STORE	21585	41301.77	46179.80	908.50	*IG
STORE	21586	41270.88	46167.03	912.82	*IG
STORE	21587	41268.93	46189.04	905.35	*IG
STORE	21588	41269.06	46204.42	905.99	*IG
STORE	21589	41269.65	46208.06	909.99	*IG
STORE	21590	41264.60	46235.80	911.50	*C/L IG
STORE	21591	41272.83	46237.44	909.42	*IG
STORE	21592	41251.16	46232.97	913.41	*IG
STORE	21593	41220.87	46205.49	904.51	*IG
STORE	21594	41209.79	46208.05	904.56	*IG
STORE	21595	41175.81	46165.24	911.37	*IG
STORE	21596	41171.47	46186.93	907.57	*IG
STORE	21597	41170.67	46198.47	908.02	*IG
STORE	21598	41165.72	46223.63	911.90	*IG
STORE	21599	41177.01	46220.90	910.80	*IG
STORE	21600	41117.93	46210.24	910.55	*IG
STORE	21601	41117.99	46201.33	906.16	*IG
STORE	21602	41117.38	46192.37	906.40	*IG
STORE	21603	41068.43	46201.82	905.64	*C/L IG
STORE	21604	40969.30	46184.63	910.34	*IG
STORE	21605	40901.53	46172.67	909.38	*IG
STORE	21606	40905.22	46016.80	909.43	*IG
STORE	21607	40975.53	46025.04	909.64	*IG
STORE	21608	40988.93	46021.55	909.44	*IG
STORE	21609	41473.01	46273.86	910.52	*EG
STORE	21610	41459.01	46278.87	911.46	*EP
STORE	21611	41275.21	46347.13	911.09	*EP
STORE	21612	41248.06	46356.62	912.40	*EG
STORE	21613	41102.68	45979.82	913.92	*TRAV. PT.
STORE	21614	40877.06	46014.32	899.60	*IG
STORE	21615	40905.30	46013.50	909.32	*IG
STORE	21616	41086.25	46051.00	909.81	*IG
STORE	21617	41145.55	46055.99	912.86	*IG
STORE	21618	41173.71	46067.14	909.59	*IG
STORE	21619	41190.70	46068.58	903.92	*IG
STORE	21620	41215.59	46075.35	903.95	*IG
STORE	21621	41229.02	46070.45	909.68	*IG
STORE	21622	41248.27	46076.01	912.26	*IG
STORE	21623	41262.39	46080.93	909.27	*IG
STORE	21624	41157.34	46317.08	907.57	*IG
STORE	21625	41161.46	46284.92	912.77	*IG
STORE	21626	41165.72	46248.49	908.08	*IG
STORE	21627	41017.25	46347.29	910.63	*IG
STORE	21628	40934.51	46334.97	910.16	*IG
STORE	21629	40880.63	46323.10	908.45	*IG
STORE	21630	40843.21	46324.01	900.15	*IG
STORE	21631	40714.92	46289.32	902.87	*IG
STORE	21632	40773.43	46148.81	901.95	*IG
STORE	21633	40746.52	45977.86	903.26	*IG
STORE	21634	40763.55	45976.56	896.74	*IG
STORE	21635	40777.86	45956.08	896.47	*IG
STORE	21636	40790.10	45955.21	900.15	*IG
STORE	21637	40828.20	45945.07	900.45	*IG
STORE	21638	40850.43	45949.88	897.77	*IG

STORE	21639	40900.97	46171.02	909.03	*IG
STORE	21640	40866.02	46165.83	898.48	*IG
STORE	21641	40825.08	46161.50	900.31	*IG
STORE	21642	40787.47	46164.94	896.24	*IG
STORE	21643	40774.24	46170.06	901.78	*IG
STORE	21644	40652.46	46287.16	903.48	*IG
STORE	21645	40662.46	46214.81	903.33	*IG
STORE	21646	40667.30	46173.96	903.64	*IG
STORE	21647	40673.52	46132.56	902.04	*C/L IG
STORE	21648	40673.79	46116.44	902.24	*IG
STORE	21649	40674.30	46107.19	903.05	*IG
STORE	21650	40677.01	46062.01	901.94	*IG
STORE	21651	40682.08	45999.19	900.78	*IG
STORE	21652	40546.56	46255.30	904.79	*IG
STORE	21653	40555.21	46212.36	904.13	*IG
STORE	21654	40563.45	46168.93	903.03	*IG
STORE	21655	40575.38	46116.09	903.36	*C/L IG
STORE	21656	40599.13	46052.23	902.29	*IG
STORE	21657	40608.84	46003.79	902.74	*IG
STORE	21658	40614.25	45980.50	902.54	*IG
STORE	21659	40445.52	46226.23	903.72	*IG
STORE	21660	40461.26	46165.81	902.84	*IG
STORE	21661	40475.93	46098.86	901.73	*C/L IG
STORE	21662	40479.44	46084.36	901.78	*IG
STORE	21663	40492.62	46063.26	902.37	*IG
STORE	21664	40513.30	46020.23	900.89	*IG
STORE	21665	40530.93	45982.78	901.06	*IG
STORE	21666	40541.12	45951.91	901.27	*IG
STORE	21667	40403.59	45936.21	902.44	*IG
STORE	21668	40390.22	46008.62	902.77	*IG
STORE	21669	40377.96	46081.73	902.75	*C/L IG
STORE	21670	40373.51	46105.08	901.98	*IG
STORE	21671	40368.85	46131.07	902.48	*IG
STORE	21672	40362.33	46179.64	903.30	*IG
STORE	21673	40351.94	46236.66	902.40	*IG
STORE	21674	40255.80	46215.95	903.36	*IG
STORE	21675	40261.32	46155.70	903.17	*IG
STORE	21676	40277.39	46088.03	902.54	*IG
STORE	21677	40279.13	46065.10	902.94	*C/L IG
STORE	21678	40282.72	46035.57	902.94	*IG
STORE	21679	40283.21	46024.04	901.67	*IG
STORE	21680	40285.82	45978.98	901.47	*IG
STORE	21681	40289.69	45959.31	903.39	*IG
STORE	21682	40293.43	45930.80	904.28	*IG
STORE	21683	40199.23	46052.46	901.78	*IG
STORE	21684	40181.34	46048.38	897.12	*C/L IG
STORE	21685	40194.21	45986.81	896.62	*IG
STORE	21686	40204.41	45931.02	896.62	*IG
STORE	21687	40162.57	46143.14	898.31	*IG
STORE	21688	40162.34	46150.39	899.34	*IG
STORE	21689	40154.60	46180.48	899.37	*IG
STORE	21690	40077.03	46169.62	902.77	*IG
STORE	21691	40067.88	46166.98	897.99	*IG
STORE	21692	40075.48	46108.06	901.16	*IG
STORE	21693	40079.58	46064.19	901.00	*IG
STORE	21694	40081.77	46030.81	899.61	*C/L IG
STORE	21695	40100.37	46030.19	900.17	*IG
STORE	21696	40127.57	46034.75	902.64	*IG
STORE	21697	40158.10	46041.49	897.66	*IG
STORE	21698	40094.42	45964.36	899.70	*IG
STORE	21699	40105.70	45889.25	899.08	*IG
STORE	21700	40008.61	45873.91	898.66	*IG
STORE	21701	39997.76	45941.30	897.41	*IG
STORE	21702	39983.62	46014.21	898.24	*IG
STORE	21703	39972.40	46078.62	898.01	*IG
STORE	21704	39960.20	46143.12	897.46	*IG
STORE	21705	39407.31	45769.69	897.58	*IG
STORE	21706	39401.06	45838.08	898.01	*IG
STORE	21707	39392.97	45911.31	898.89	*C/L IG
STORE	21708	39386.83	45976.64	898.41	*IG
STORE	21709	39378.76	46053.78	898.25	*IG
STORE	21710	39470.34	46075.38	898.49	*IG
STORE	21711	39478.69	46017.69	899.96	*IG
STORE	21712	39484.91	45971.12	900.02	*IG
STORE	21713	39488.03	45949.30	899.22	*IG
STORE	21714	39491.36	45928.21	899.19	*C/L IG
STORE	21715	39500.71	45865.12	898.76	*IG
STORE	21716	39507.58	45820.86	899.17	*IG
STORE	21717	39513.29	45782.89	899.94	*IG

STORE	21718	39614.27	45802.06	900.68	*IG
STORE	21719	39610.54	45831.85	900.68	*IG
STORE	21720	39600.98	45879.54	901.66	*IG
STORE	21721	39589.99	45945.64	900.44	*C/L IG
STORE	21722	39577.72	46017.37	898.25	*IG
STORE	21723	39564.02	46096.73	899.36	*IG
STORE	21724	39663.52	46112.81	901.31	*IG
STORE	21725	39674.18	46049.62	901.20	*IG
STORE	21726	39681.89	46000.51	900.97	*IG
STORE	21727	39688.13	45962.58	900.61	*C/L IG
STORE	21728	39698.84	45901.05	900.74	*IG
STORE	21729	39711.83	45824.78	899.83	*IG
STORE	21730	39816.19	45838.50	900.20	*IG
STORE	21731	39807.73	45878.78	901.04	*IG
STORE	21732	39798.80	45926.54	900.59	*IG
STORE	21733	39791.32	45957.63	899.73	*IG
STORE	21734	39786.98	45979.77	900.26	*C/L IG
STORE	21735	39771.81	46046.61	901.01	*IG
STORE	21736	39753.98	46129.35	901.44	*IG
STORE	21737	40739.42	46346.01	901.72	*IG
STORE	21738	40785.70	46353.39	900.30	*IG
STORE	21739	40797.16	46346.82	896.52	*IG
STORE	21740	40826.76	46342.38	898.63	*IG
STORE	22300	41476.80	45869.01	908.32	*TOP
STORE	22301	41478.80	45869.02	907.44	*IG
STORE	22302	41489.31	45869.19	906.93	*IG
STORE	22303	41492.49	45869.38	906.27	*TOE
STORE	22304	41494.60	45869.45	910.36	*IG
STORE	22305	41500.24	45870.01	915.60	*TOP
STORE	22306	41502.69	45870.47	914.56	*IG
STORE	22307	41521.68	45873.44	914.23	*IG
STORE	22308	41538.28	45875.65	913.78	*IG
STORE	22309	41556.27	45878.80	912.20	*IG
STORE	22310	41460.61	45968.37	908.42	*TOP
STORE	22311	41462.12	45968.68	907.42	*IG
STORE	22312	41473.16	45970.92	906.66	*IG
STORE	22313	41476.33	45971.90	906.44	*TOE
STORE	22314	41478.73	45972.98	910.42	*IG
STORE	22315	41484.36	45972.78	915.00	*TOP
STORE	22316	41486.59	45972.41	914.34	*IG
STORE	22317	41504.15	45975.94	914.21	*IG
STORE	22318	41540.43	45985.18	912.66	*IG
STORE	22319	41444.60	46072.84	908.71	*TOP
STORE	22320	41446.00	46072.89	907.88	*IG
STORE	22321	41455.96	46073.65	907.50	*IG
STORE	22322	41460.29	46073.69	907.31	*TOE
STORE	22323	41461.02	46074.12	911.44	*IG
STORE	22324	41467.25	46075.02	915.73	*TOP
STORE	22325	41470.26	46075.76	914.56	*IG
STORE	22326	41485.54	46078.29	914.23	*IG
STORE	22327	41493.20	46080.22	913.31	*IG
STORE	22328	41523.10	46084.89	912.56	*IG
STORE	22329	41426.79	46174.81	908.75	*TOP
STORE	22330	41428.06	46175.00	907.94	*IG
STORE	22331	41438.90	46175.26	907.43	*IG
STORE	22332	41443.13	46176.09	906.82	*TOE
STORE	22333	41444.20	46176.45	910.51	*IG
STORE	22334	41450.29	46177.80	914.45	*TOP
STORE	22335	41453.48	46177.88	913.42	*IG
STORE	22336	41469.05	46180.39	913.05	*IG
STORE	22337	41475.41	46181.91	911.96	*IG
STORE	22338	41507.69	46185.88	910.67	*IG
STORE	22339	41411.47	46275.55	908.69	*TOP
STORE	22340	41412.93	46275.70	907.52	*IG
STORE	22341	41424.11	46277.90	906.63	*IG
STORE	22342	41428.62	46279.03	906.00	*TOE
STORE	22343	41430.54	46277.97	907.93	*IG
STORE	22344	41438.25	46280.72	913.50	*TOP
STORE	22345	41454.27	46284.08	912.12	*IG
STORE	22346	41465.53	46285.42	910.94	*IG
STORE	22347	41492.87	46287.22	910.63	*IG
STORE	22348	41395.52	46369.27	908.77	*TOP
STORE	22349	41397.40	46369.35	907.59	*IG
STORE	22350	41407.69	46370.71	906.99	*IG
STORE	22351	41411.85	46371.86	906.63	*TOE
STORE	22352	41412.26	46371.93	909.94	*IG
STORE	22353	41418.56	46372.61	914.29	*TOP
STORE	22354	41420.38	46373.21	913.43	*IG
STORE	22355	41437.80	46376.63	912.65	*IG

STORE	22356	41445.98	46378.21	911.26	*IG
STORE	22357	41459.08	46379.97	910.65	*IG
STORE	22358	41472.50	46383.31	910.83	*IG
STORE	22359	41379.83	46463.95	908.53	*TOP
STORE	22360	41381.29	46464.20	907.93	*IG
STORE	22361	41390.81	46466.74	907.45	*IG
STORE	22362	41395.11	46468.13	906.78	*TOE
STORE	22363	41395.99	46468.22	910.85	*IG
STORE	22364	41402.06	46468.74	914.89	*TOP
STORE	22365	41404.25	46469.16	913.84	*IG
STORE	22366	41425.31	46472.83	913.03	*IG
STORE	22367	41445.76	46474.46	910.59	*IG
STORE	22368	41454.93	46475.17	910.88	*IG
STORE	22369	41363.64	46560.28	909.44	*TOP
STORE	22370	41365.62	46560.45	908.30	*IG
STORE	22371	41375.69	46561.94	907.60	*IG
STORE	22372	41379.82	46562.54	907.27	*TOE
STORE	22373	41380.63	46562.84	910.41	*IG
STORE	22374	41387.35	46564.07	915.38	*TOP
STORE	22375	41389.52	46564.42	914.31	*IG
STORE	22376	41409.94	46568.41	913.36	*IG
STORE	22377	41433.65	46572.18	911.16	*IG
STORE	22378	41347.87	46656.89	908.74	*TOP
STORE	22379	41349.35	46656.72	907.84	*IG
STORE	22380	41360.86	46657.60	907.06	*IG
STORE	22381	41364.87	46658.42	906.92	*TOE
STORE	22382	41367.40	46659.37	912.41	*IG
STORE	22383	41371.99	46660.19	913.72	*TOP
STORE	22384	41374.01	46660.23	913.20	*IG
STORE	22385	41398.88	46663.73	912.85	*IG
STORE	22386	41401.82	46663.58	912.01	*IG
STORE	22387	41410.70	46664.52	911.96	*IG
STORE	22388	41426.56	46667.77	912.13	*IG
STORE	22389	41436.47	45860.26	908.18	*TOP
STORE	22390	41434.97	45859.92	907.44	*IG
STORE	22391	41422.21	45857.40	906.75	*IG
STORE	22392	41418.99	45856.85	906.41	*TOE
STORE	22393	41410.06	45855.74	913.76	*TOP
STORE	22394	41396.82	45853.95	913.85	*IG
STORE	22395	41372.23	45852.48	911.09	*IG
STORE	22396	41357.64	45851.71	910.58	*IG
STORE	22397	41418.03	45961.86	909.15	*TOP
STORE	22398	41416.34	45961.49	908.56	*IG
STORE	22399	41403.81	45960.30	907.99	*IG
STORE	22400	41400.72	45959.65	907.62	*TOE
STORE	22401	41394.12	45958.57	913.16	*TOP
STORE	22402	41374.21	45956.06	913.43	*IG
STORE	22403	41366.34	45953.07	911.15	*IG
STORE	22404	41347.66	45952.70	909.92	*IG
STORE	22405	41334.70	45950.42	909.47	*IG
STORE	22406	41399.39	46061.33	909.85	*TOP
STORE	22407	41397.81	46060.92	909.23	*IG
STORE	22408	41386.46	46058.55	908.94	*IG
STORE	22409	41381.60	46057.13	908.35	*TOE
STORE	22410	41374.63	46055.86	911.89	*TOP
STORE	22411	41360.96	46054.01	911.67	*IG
STORE	22412	41335.90	46051.13	909.72	*IG
STORE	22413	41322.91	46049.59	909.43	*IG
STORE	22414	41380.80	46163.25	909.40	*TOP
STORE	22415	41379.32	46162.95	908.90	*IG
STORE	22416	41366.97	46160.20	908.45	*IG
STORE	22417	41361.16	46158.56	907.45	*TOE
STORE	22418	41355.03	46157.40	909.74	*TOP
STORE	22419	41341.68	46155.44	910.05	*IG
STORE	22420	41334.16	46153.88	908.97	*IG
STORE	22421	41308.08	46149.15	909.15	*IG
STORE	22422	41358.82	46271.83	908.77	*TOP
STORE	22423	41345.57	46270.11	908.32	*IG
STORE	22424	41338.82	46268.35	907.15	*IG
STORE	22425	41328.44	46265.93	909.00	*IG
STORE	22426	41289.39	46262.24	909.87	*IG
STORE	22427	41344.04	46364.46	911.11	*TOP
STORE	22428	41329.87	46362.35	910.11	*IG
STORE	22429	41322.14	46361.72	908.58	*TOE
STORE	22430	41308.63	46359.18	911.18	*TOP
STORE	22431	41284.17	46356.33	910.28	*IG
STORE	22432	41272.36	46354.54	910.86	*IG
STORE	22433	41325.02	46458.64	912.05	*TOP
STORE	22434	41312.32	46456.87	911.52	*IG

STORE	22435	41305.25	46457.04	910.37	*TOE
STORE	22436	41298.40	46455.86	912.17	*TOP
STORE	22437	41289.55	46454.88	912.55	*IG
STORE	22438	41286.97	46454.74	911.68	*IG
STORE	22439	41257.21	46449.10	911.53	*IG
STORE	22440	41310.98	46551.42	913.03	*TOP
STORE	22441	41297.00	46549.69	912.19	*IG
STORE	22442	41290.12	46549.14	911.12	*TOE
STORE	22443	41286.02	46548.41	912.07	*TOP
STORE	22444	41276.01	46547.51	912.48	*IG
STORE	22445	41273.28	46547.78	911.56	*IG
STORE	22446	41237.63	46543.33	911.19	*IG
STORE	22447	41224.58	46631.35	911.19	*IG
STORE	22448	41242.43	46637.62	910.71	*IG
STORE	22449	41263.13	46639.81	911.46	*IG
STORE	22450	41273.10	46642.72	911.30	*TOP
STORE	22451	41275.03	46643.21	910.93	*TOE
STORE	22452	41281.87	46645.07	911.93	*IG
STORE	22453	41296.61	46647.82	912.52	*TOP
STORE	22454	41386.84	46166.35	906.36	*IG
STORE	22455	41388.85	46166.73	899.29	*TOE
STORE	22456	41403.10	46167.97	896.11	*IG
STORE	22457	41416.97	46170.86	898.29	*TOE
STORE	22458	41422.43	46171.82	904.90	*IG
STORE	22459	41442.09	46072.69	906.41	*IG
STORE	22460	41435.29	46071.31	898.16	*TOE
STORE	22461	41421.59	46065.91	896.49	*IG
STORE	22462	41407.25	46066.74	898.60	*TOE
STORE	22463	41404.16	46066.96	904.63	*IG
STORE	22464	41456.70	45965.94	904.59	*IG
STORE	22465	41452.45	45965.53	898.76	*TOE
STORE	22466	41437.21	45960.44	896.40	*IG
STORE	22467	41426.82	45960.65	898.94	*TOE
STORE	22468	41422.61	45959.97	904.80	*IG
STORE	22469	41438.27	45863.46	906.45	*IG
STORE	22470	41442.74	45862.05	898.48	*TOE
STORE	22471	41453.40	45862.46	896.08	*IG
STORE	22472	41468.56	45864.82	897.89	*TOE
STORE	22473	41474.00	45865.61	904.31	*IG
STORE	22474	41393.19	46370.07	906.15	*IG
STORE	22475	41388.77	46369.57	898.48	*TOE
STORE	22476	41371.00	46365.83	896.46	*IG
STORE	22477	41355.75	46364.51	898.54	*TOE
STORE	22478	41351.80	46363.94	904.50	*IG
STORE	22479	41336.60	46455.21	902.94	*IG
STORE	22480	41343.68	46459.90	898.27	*TOE
STORE	22481	41354.77	46458.96	895.70	*IG
STORE	22482	41371.35	46462.68	899.09	*TOE
STORE	22483	41374.67	46464.51	903.44	*IG
STORE	22484	41359.78	46559.51	905.76	*IG
STORE	22485	41355.90	46558.15	899.65	*TOE
STORE	22486	41336.70	46557.69	896.42	*IG
STORE	22487	41325.52	46557.58	899.16	*TOE
STORE	22488	41314.82	46556.71	910.76	*IG
STORE	22489	41343.74	46655.74	904.82	*IG
STORE	22490	41338.65	46654.88	898.52	*TOE
STORE	22491	41324.12	46650.49	896.26	*IG
STORE	22492	41310.92	46652.97	898.70	*TOE
STORE	22493	41301.18	46651.70	909.69	*IG
STORE	22494	41366.34	46272.43	906.30	*IG
STORE	22495	41370.54	46273.11	898.39	*TOE
STORE	22496	41385.34	46272.83	896.20	*IG
STORE	22497	41402.22	46276.12	898.20	*TOE
STORE	22498	41407.49	46278.95	904.92	*IG

*BULLARD WASH (SURVEY DATA #2)

STORE	30066	51755.86	44691.26	959.71	*	R1
STORE	30075	52253.49	44645.92	961.51	*	TRAV.PT.
STORE	30077	52753.20	44634.17	962.64	*	TRAV.PT.
STORE	30078	53254.44	44622.39	964.22	*	TRAV.PT.
STORE	30079	53753.05	44610.67	965.58	*	TRAV.PT.
STORE	30080	54252.79	44598.92	967.93	*	TRAV.PT.
STORE	30081	54753.95	44587.13	969.84	*	TRAV.PT.
STORE	30082	55256.13	44614.57	971.82	*	R1
STORE	30083	55750.17	44639.98	972.86	*	TRAV.PT.
STORE	30084	56350.29	44640.72	975.16	*	TRAV.PT.
STORE	30085	56951.05	44641.47	977.05	*	TRAV.PT.
STORE	30086	57550.19	44642.21	979.19	*	TRAV.PT.
STORE	30087	57894.50	44616.18	0.00	*	R1
STORE	30125	52254.24	44654.86	961.43	*	PT.75 ELVCK
STORE	30126	51464.64	44661.35	959.47	*	CKPT 65
STORE	30127	51561.40	44577.42	961.32	*	IG
STORE	30128	51562.19	44632.56	960.03	*	FO
STORE	30129	51562.98	44660.18	960.08	*	TOP
STORE	30130	51563.74	44665.78	958.70	*	IG
STORE	30131	51563.15	44681.02	959.38	*	RE
STORE	30132	51563.40	44695.34	959.64	*	RC
STORE	30133	51564.06	44707.22	959.50	*	RE
STORE	30134	51564.34	44718.12	959.06	*	IG
STORE	30135	51564.10	44735.73	960.09	*	TOP CONC DITCH
STORE	30136	51563.88	44740.76	960.08	*	TOP CONC DITCH
STORE	30137	51563.97	44737.73	958.10	*	TOE CONC DITCH
STORE	30138	51563.63	44738.76	958.10	*	TOE CONC DITCH
STORE	30139	51564.25	44742.73	959.80	*	IG
STORE	30140	51564.79	44743.89	959.51	*	IG
STORE	30141	51566.01	44796.58	958.58	*	IG
STORE	30142	51634.69	44679.48	959.88	*	RE ANG.PT.
STORE	30143	51665.30	44576.30	961.01	*	IG
STORE	30144	51664.34	44630.68	961.07	*	FO
STORE	30145	51664.73	44656.19	960.98	*	IG
STORE	30146	51658.51	44656.18	960.68	*	TR
STORE	30147	51664.79	44663.54	958.90	*	IG
STORE	30148	51664.10	44675.06	960.07	*	RE
STORE	30149	51664.33	44692.53	960.37	*	RC
STORE	30150	51664.97	44705.33	960.10	*	RE
STORE	30151	51665.82	44719.24	959.66	*	IG
STORE	30152	51665.98	44733.49	960.34	*	TOP CONC DITCH
STORE	30153	51666.98	44738.47	960.39	*	TOP CONC DITCH
STORE	30154	51671.56	44736.39	958.39	*	TOE CONC DITCH
STORE	30155	51671.56	44735.34	958.39	*	TOE CONC DITCH
STORE	30156	51664.73	44742.83	958.24	*	IG
STORE	30157	51663.07	44801.22	958.66	*	IG
STORE	30158	51680.43	44723.67	960.24	*	WZ AIR RELEASE
STORE	30159	51697.02	44731.66	960.75	*	IH
STORE	30160	51698.76	44733.21	960.76	*	IH
STORE	30161	51702.03	44733.08	960.72	*	IH
STORE	30162	51702.18	44737.11	960.80	*	IH
STORE	30163	51698.89	44737.29	960.82	*	IH
STORE	30164	51697.32	44738.97	960.80	*	IH
STORE	30165	51701.56	44735.06	955.50	*	24IN. CONC INV
STORE	30166	51704.99	44724.72	959.73	*	WV RIM
STORE	30167	51705.20	44724.61	957.72	*	WV TOP
STORE	30168	51699.23	44705.03	960.28	*	RE/FACE CURB
STORE	30169	51699.21	44705.62	960.53	*	RB PC
STORE	30170	51713.23	44709.37	960.36	*	RB MOC
STORE	30171	51713.82	44709.08	959.89	*	R3
STORE	30172	51721.00	44720.29	959.80	*	RB PC END
STORE	30173	51711.01	44713.67	960.20	*	EP
STORE	30174	51722.96	44768.29	960.55	*	RB BEGIN
STORE	30175	51723.65	44768.20	960.06	*	R3 BEGIN
STORE	30176	51721.20	44768.76	960.48	*	RG
STORE	30177	51749.49	44769.12	960.44	*	R3 PC
STORE	30178	51750.06	44769.06	960.94	*	RB PC
STORE	30179	51752.86	44768.99	960.93	*	RB PC
STORE	30180	51753.36	44768.93	960.43	*	R3
STORE	30181	51751.47	44767.28	960.90	*	RB MOC

STORE	30182	51750.63	44722.01	959.79	*	RP
STORE	30183	51791.54	44766.26	960.09	*	R3 BEGIN
STORE	30184	51792.09	44766.06	960.58	*	RB BEGIN
STORE	30185	51793.85	44845.70	960.46	*	RB
STORE	30186	51793.28	44845.67	960.01	*	R3
STORE	30187	51755.09	44846.85	960.54	*	R3
STORE	30188	51754.55	44846.90	961.03	*	RB
STORE	30189	51751.76	44846.70	960.98	*	RB
STORE	30190	51751.22	44846.80	960.50	*	R3
STORE	30191	51725.19	44847.81	960.00	*	R3
STORE	30192	51724.64	44847.97	960.47	*	RB
STORE	30193	51702.61	44848.21	961.48	*	IG
STORE	30194	51693.13	44848.36	961.18	*	IG
STORE	30195	51680.05	44848.00	958.79	*	IG
STORE	30196	51679.38	44848.80	958.03	*	IG
STORE	30197	51674.33	44849.47	958.00	*	IG
STORE	30198	51672.37	44849.70	959.68	*	IG
STORE	30199	51670.48	44849.79	958.75	*	IG
STORE	30200	51811.94	44844.67	960.69	*	IG
STORE	30201	51819.81	44844.86	959.50	*	IG
STORE	30202	51811.29	44765.57	960.27	*	IG
STORE	30203	51795.15	44766.00	960.32	*	IG
STORE	30204	51717.48	44768.22	960.42	*	IG
STORE	30205	51703.06	44768.84	961.30	*	IG
STORE	30206	51691.86	44768.87	960.93	*	IG
STORE	30207	51686.89	44769.13	960.43	*	IG
STORE	30208	51679.65	44769.27	957.75	*	IG
STORE	30209	51677.64	44769.53	957.76	*	IG
STORE	30210	51673.83	44769.97	959.85	*	IG
STORE	30211	51670.98	44769.83	958.95	*	IG
STORE	30212	51700.42	44666.23	959.84	*	RE
STORE	30213	51711.95	44660.30	959.61	*	RE
STORE	30214	51719.60	44647.52	959.72	*	RE
STORE	30215	51711.96	44649.04	960.37	*	RG STOP
STORE	30216	51728.50	44656.36	959.70	*	SM
STORE	30217	51761.54	44657.72	959.77	*	RP
STORE	30218	51713.84	44626.19	960.38	*	ES
STORE	30219	51712.14	44625.79	960.58	*	EB 1FT*2FTN/S
STORE	30220	51697.47	44616.66	961.31	*	IG
STORE	30221	51714.69	44615.91	960.58	*	RW BEGIN
STORE	30222	51719.70	44615.66	960.52	*	RB BEGIN
STORE	30223	51720.29	44615.59	960.02	*	R3 BEGIN
STORE	30224	51758.25	44613.16	960.63	*	R3
STORE	30225	51758.75	44613.12	961.14	*	RB PC
STORE	30226	51761.72	44612.98	961.04	*	RB PC
STORE	30227	51762.22	44613.06	960.52	*	R3
STORE	30228	51760.36	44615.11	960.58	*	R3
STORE	30229	51760.18	44614.68	961.09	*	RB MOC
STORE	30230	51769.31	44633.56	960.27	*	WV RIM
STORE	30231	51769.43	44633.46	954.33	*	WV TOP
STORE	30232	51772.81	44633.11	960.25	*	WV RIM
STORE	30233	51772.74	44633.13	956.01	*	WV TOP
STORE	30234	51772.82	44636.99	960.20	*	WV RIM
STORE	30235	51772.90	44636.80	956.02	*	WV TOP
STORE	30236	51788.29	44614.81	960.89	*	R3 BEGIN
STORE	30237	51788.84	44614.85	961.42	*	RB BEGIN
STORE	30238	51793.85	44614.88	961.49	*	RW BEGIN
STORE	30239	51808.29	44614.70	962.23	*	IG
STORE	30240	51810.55	44546.74	962.48	*	IG
STORE	30241	51792.38	44547.48	961.59	*	RW
STORE	30242	51787.41	44547.67	960.62	*	RB
STORE	30243	51786.80	44547.67	960.14	*	R3
STORE	30244	51760.33	44548.62	960.62	*	R3
STORE	30245	51759.82	44548.77	961.12	*	RB
STORE	30246	51756.87	44548.61	961.26	*	RB
STORE	30247	51756.33	44548.63	960.77	*	R3
STORE	30248	51718.84	44548.91	960.14	*	R3
STORE	30249	51718.27	44548.95	960.61	*	RB
STORE	30250	51713.26	44548.84	960.66	*	RW
STORE	30251	51696.99	44544.78	961.53	*	IG
STORE	30252	51790.11	44641.54	959.92	*	RE

STORE	30253	51803.65	44660.41	959.89	*	RE
STORE	30254	51836.30	44672.71	960.34	*	RE
STORE	30255	51832.02	44636.58	961.37	*	WF
STORE	30256	51825.59	44634.99	961.74	*	WV RIM
STORE	30257	51825.55	44635.01	956.56	*	WV TOP
STORE	30258	51814.96	44637.44	962.70	*	CATV BOX
STORE	30259	51815.74	44728.92	961.32	*	IH
STORE	30260	51814.15	44730.49	961.29	*	IH
STORE	30261	51810.80	44730.59	961.26	*	IH
STORE	30262	51810.89	44734.59	961.27	*	IH
STORE	30263	51814.15	44734.53	961.29	*	IH
STORE	30264	51815.62	44736.22	961.30	*	IH
STORE	30265	51811.42	44732.72	956.73	*	24IN. CONC INV
STORE	30266	51819.35	44708.27	960.37	*	RE
STORE	30267	51796.95	44721.01	959.70	*	RE
STORE	30268	51790.79	44737.26	959.91	*	RE
STORE	30269	51871.09	44571.75	961.24	*	IG
STORE	30270	51871.00	44624.84	961.03	*	IG
STORE	30271	51871.86	44651.51	961.15	*	GB
STORE	30272	51871.64	44655.63	960.89	*	IG
STORE	30273	51871.70	44659.14	960.43	*	FO
STORE	30274	51872.39	44662.73	960.02	*	IG
STORE	30275	51872.79	44672.25	960.50	*	RE
STORE	30276	51872.74	44687.79	960.94	*	RC
STORE	30277	51873.20	44705.15	960.44	*	RE
STORE	30278	51873.42	44708.80	960.30	*	IG
STORE	30279	51873.25	44726.54	961.32	*	IG
STORE	30280	51873.67	44728.96	960.80	*	TOP CONC DITCH
STORE	30281	51874.32	44733.94	961.20	*	TOP CONC DITCH
STORE	30282	51874.01	44731.99	958.85	*	TOE CONC DITCH
STORE	30283	51873.91	44730.98	958.85	*	TOE CONC DITCH
STORE	30284	51874.47	44735.68	960.96	*	IG
STORE	30285	51874.48	44737.59	959.52	*	IG
STORE	30286	51875.04	44793.49	958.99	*	IG
STORE	30287	51929.48	44699.76	960.67	*	RE ANG. PT.
STORE	30288	51976.04	44565.73	961.21	*	IG
STORE	30289	51976.39	44649.28	961.20	*	GB
STORE	30290	51976.92	44656.75	960.77	*	FO
STORE	30291	51977.20	44661.95	960.23	*	IG
STORE	30292	51977.28	44670.38	960.59	*	RE
STORE	30293	51976.82	44684.71	961.03	*	RC
STORE	30294	51976.85	44698.74	960.69	*	RE
STORE	30295	51977.17	44706.22	960.36	*	IG
STORE	30296	51977.55	44723.98	961.78	*	IG
STORE	30297	51977.39	44726.79	961.04	*	TOP CONC DITCH
STORE	30298	51977.70	44732.22	961.06	*	TOP CONC DITCH
STORE	30299	51977.71	44729.92	959.06	*	TOE CONC DITCH
STORE	30300	51978.02	44728.88	959.05	*	TOE CONC DITCH
STORE	30301	51978.75	44734.04	961.04	*	IG
STORE	30302	51978.82	44735.70	959.76	*	IG
STORE	30303	51980.44	44785.35	959.42	*	IG
STORE	30304	52753.20	44634.17	962.62	*	TRAV PT 77EL CK
STORE	30305	52015.79	44653.13	961.65	*	RG
STORE	30306	52079.20	44682.41	961.19	*	RC
STORE	30307	52079.35	44696.27	960.87	*	RE
STORE	30308	52079.20	44708.67	960.64	*	IG
STORE	30309	52079.61	44722.87	961.89	*	IG
STORE	30310	52079.38	44724.67	961.35	*	CONC TOP
STORE	30311	52079.40	44729.74	961.32	*	CONC TOP
STORE	30312	52079.56	44726.71	959.36	*	IC
STORE	30313	52079.68	44727.73	959.34	*	IC
STORE	30314	52079.88	44732.04	961.24	*	IG
STORE	30315	52081.02	44733.77	959.72	*	IG
STORE	30316	52081.02	44785.73	959.41	*	IG
STORE	30317	52078.67	44668.14	960.89	*	RE
STORE	30318	52078.19	44657.08	960.48	*	IG
STORE	30319	52079.63	44654.53	961.16	*	FO
STORE	30320	52079.51	44646.88	961.37	*	GB
STORE	30321	52077.60	44585.55	961.56	*	IG
STORE	30322	52151.57	44701.58	960.98	*	EP
STORE	30323	52177.48	44574.03	961.80	*	IG

STORE	30324	52177.70	44644.89	961.62	*	GB
STORE	30325	52177.53	44652.85	961.44	*	FO
STORE	30326	52177.42	44654.09	960.85	*	IG
STORE	30327	52178.73	44665.90	961.22	*	RE
STORE	30328	52178.86	44680.50	961.40	*	RC
STORE	30329	52178.84	44694.10	961.05	*	RE
STORE	30330	52178.69	44704.87	960.66	*	IG
STORE	30331	52178.75	44721.69	961.85	*	IG
STORE	30332	52178.77	44722.56	961.62	*	CONC TOP
STORE	30333	52179.15	44727.56	961.62	*	CONC TOP
STORE	30334	52178.86	44724.52	959.64	*	IC
STORE	30335	52178.94	44725.54	959.62	*	IC
STORE	30336	52179.45	44729.51	961.13	*	IG
STORE	30337	52180.19	44730.87	960.17	*	IG
STORE	30338	52180.60	44789.20	959.82	*	IG
STORE	30339	52284.17	44559.68	962.18	*	IG
STORE	30340	52283.35	44642.13	961.93	*	GB
STORE	30341	52284.49	44650.41	961.54	*	FO
STORE	30342	52284.33	44652.52	961.02	*	IG
STORE	30343	52284.66	44663.36	961.44	*	RE
STORE	30344	52284.04	44677.64	961.61	*	RC
STORE	30345	52284.45	44691.46	961.17	*	RE
STORE	30346	52284.86	44703.15	961.10	*	IG
STORE	30347	52285.67	44718.55	962.60	*	IG
STORE	30348	52285.52	44720.28	961.91	*	CONC TOP
STORE	30349	52286.08	44725.40	961.89	*	CONC TOP
STORE	30350	52285.82	44723.29	959.90	*	IC
STORE	30351	52285.81	44722.31	959.91	*	IC
STORE	30352	52286.07	44727.63	961.41	*	IG
STORE	30353	52285.59	44728.25	960.54	*	IG
STORE	30354	52287.82	44785.81	960.15	*	IG
STORE	30355	52386.66	44784.22	960.40	*	IG
STORE	30356	52388.60	44726.93	960.78	*	IG
STORE	30357	52388.54	44724.57	962.23	*	IG
STORE	30358	52388.49	44723.13	962.21	*	CONC TOP
STORE	30359	52388.91	44718.02	962.15	*	CONC TOP
STORE	30360	52388.78	44721.05	960.17	*	IC
STORE	30361	52388.67	44720.06	960.18	*	IC
STORE	30362	52389.49	44716.80	962.27	*	IG
STORE	30363	52388.89	44698.54	960.98	*	IG
STORE	30364	52388.23	44689.01	961.41	*	RE
STORE	30365	52387.90	44675.13	961.93	*	RC
STORE	30366	52387.58	44660.88	961.77	*	RE
STORE	30367	52387.92	44650.13	961.19	*	IG
STORE	30368	52388.18	44648.82	961.59	*	FO
STORE	30369	52387.85	44641.41	961.91	*	GB
STORE	30370	52387.40	44583.95	962.17	*	IG
STORE	30371	52405.10	44648.50	961.97	*	RG
STORE	30372	52487.91	44575.30	962.69	*	IG
STORE	30373	52488.51	44600.00	963.09	*	IG
STORE	30374	52489.88	44638.39	962.18	*	GB
STORE	30375	52490.18	44645.89	962.04	*	FO
STORE	30376	52489.65	44648.27	961.35	*	IG
STORE	30377	52489.93	44658.43	962.07	*	RE
STORE	30378	52490.34	44672.83	962.28	*	RC
STORE	30379	52490.95	44686.64	961.69	*	RE
STORE	30380	52491.60	44694.16	961.17	*	IG
STORE	30381	52491.93	44714.43	962.79	*	IG
STORE	30382	52492.28	44715.82	962.46	*	CONC TOP
STORE	30383	52492.14	44720.94	962.48	*	CONC TOP
STORE	30384	52492.31	44718.83	960.48	*	IC
STORE	30385	52492.12	44717.89	960.46	*	IC
STORE	30386	52492.66	44722.55	962.41	*	IG
STORE	30387	52492.86	44724.39	961.11	*	IG
STORE	30388	52491.85	44776.62	960.82	*	IG
STORE	30389	52553.55	44643.27	962.42	*	EG
STORE	30390	52587.93	44642.69	962.81	*	EP
STORE	30391	52590.39	44689.59	962.83	*	EP
STORE	30392	52590.33	44690.85	963.06	*	EP SUPPORT
STORE	30393	52575.15	44691.11	962.84	*	IH
STORE	30394	52577.83	44694.28	962.82	*	IH

STORE	30395	52582.72	44694.10	962.89	*	IH
STORE	30396	52584.80	44691.90	962.99	*	IH
STORE	30397	52577.76	44696.44	961.58	*	INV 12IN CMP
STORE	30398	52634.17	44694.31	961.93	*	INV 12IN CMP
STORE	30399	52540.66	44714.69	962.75	*	TOP CONC ANG PT
STORE	30400	52540.85	44719.71	962.60	*	TOP CONC ANG PT
STORE	30401	52565.49	44700.82	962.37	*	WV RIM
STORE	30402	52565.44	44700.82	960.17	*	WV NUT
STORE	30403	52575.90	44707.62	963.01	*	IH
STORE	30404	52578.27	44710.40	963.03	*	IH
STORE	30405	52582.59	44709.94	963.01	*	IH
STORE	30406	52584.38	44708.10	963.08	*	IH
STORE	30407	52586.87	44704.54	963.47	*	TOP OF BANK
STORE	30408	52593.95	44704.88	963.72	*	TOP OF BANK
STORE	30409	52596.98	44708.35	963.34	*	TOP OF BANK
STORE	30410	52597.01	44712.18	963.46	*	TOP OF BANK
STORE	30411	52592.13	44715.55	963.07	*	IH
STORE	30412	52590.21	44717.51	963.06	*	IH
STORE	30413	52590.22	44722.40	963.04	*	IH
STORE	30414	52593.04	44724.58	963.03	*	IH
STORE	30415	52596.23	44728.14	962.78	*	TOP OF BANK
STORE	30416	52593.62	44734.02	962.73	*	TOP OF BANK
STORE	30417	52592.66	44751.43	962.61	*	TOP OF BANK
STORE	30418	52590.59	44751.79	961.33	*	TOP CONC
STORE	30419	52585.26	44751.68	961.24	*	TOP CONC
STORE	30420	52587.95	44751.42	959.58	*	INV 24INCONCPIPE
STORE	30421	52582.98	44751.88	962.45	*	TOP OF BANK
STORE	30422	52587.67	44736.15	959.20	*	INV 24INCONCPIPE
STORE	30423	52582.92	44724.91	962.99	*	IH
STORE	30424	52585.65	44722.44	962.97	*	IH
STORE	30425	52585.62	44717.46	962.99	*	IH
STORE	30426	52582.67	44714.77	963.02	*	IH
STORE	30427	52578.30	44715.02	963.02	*	IH
STORE	30428	52576.14	44717.66	962.94	*	IH
STORE	30429	52595.37	44709.95	960.44	*	INV 24INCONCPIPE
STORE	30430	52610.84	44709.80	960.28	*	INV 24INCONCPIPE
STORE	30431	52593.42	44774.56	962.00	*	IG
STORE	30432	52592.61	44684.31	962.37	*	RE
STORE	30433	52592.88	44670.79	962.66	*	RC
STORE	30434	52592.41	44656.21	962.25	*	RE
STORE	30435	52592.16	44648.86	961.92	*	IG
STORE	30436	52592.62	44647.20	961.32	*	INV 12IN CMP
STORE	30437	52592.57	44645.73	962.05	*	FO
STORE	30438	52592.19	44641.11	962.95	*	IG
STORE	30439	52591.60	44635.78	962.38	*	GB
STORE	30440	52591.11	44583.64	962.16	*	IG
STORE	30441	52612.55	44646.74	962.27	*	IG
STORE	30442	52612.54	44649.28	962.30	*	RG
STORE	30443	52612.74	44647.61	961.41	*	INV 12IN CMP
STORE	30444	52617.05	44643.00	962.81	*	IH
STORE	30445	52616.96	44647.00	962.80	*	IH
STORE	30446	52620.84	44647.09	962.81	*	IH
STORE	30447	52620.88	44643.04	962.84	*	IH
STORE	30448	52619.01	44646.34	959.17	*	INV 30INCONCPIPE
STORE	30449	52630.80	44689.34	962.59	*	EP SUPPORT
STORE	30450	52650.44	44689.03	962.71	*	EG
STORE	30451	52643.12	44638.87	962.82	*	TR W/RG
STORE	30452	52613.25	44705.90	963.67	*	TOP CONC
STORE	30453	52610.20	44706.90	963.61	*	TOP CONC
STORE	30454	52609.98	44712.89	963.65	*	TOP CONC
STORE	30455	52613.24	44712.92	963.64	*	TOP CONC
STORE	30456	52614.45	44774.04	961.24	*	IG
STORE	30457	52590.89	44774.19	961.16	*	TOP CONC
STORE	30458	52588.75	44774.73	959.13	*	IC
STORE	30459	52587.52	44772.57	959.33	*	IC
STORE	30460	52585.38	44771.87	960.88	*	TOP CONC
STORE	30461	52583.40	44771.11	962.37	*	IG
STORE	30462	52580.06	44771.83	962.49	*	IG
STORE	30463	52578.86	44771.93	961.61	*	IG
STORE	30464	52696.13	44558.75	962.84	*	IG
STORE	30465	52696.50	44632.10	962.63	*	GB

STORE	30466	52695.95	44639.18	962.34	*	FO
STORE	30467	52696.97	44643.53	962.02	*	IG
STORE	30468	52697.93	44653.80	962.45	*	RE
STORE	30469	52697.61	44667.84	962.92	*	RC
STORE	30470	52697.35	44682.18	962.61	*	RE
STORE	30471	52697.82	44689.99	962.41	*	IG
STORE	30472	52698.45	44704.71	963.34	*	TOP CONC
STORE	30473	52698.25	44707.15	961.39	*	IC
STORE	30474	52698.10	44708.17	961.37	*	IC
STORE	30475	52698.37	44710.78	963.42	*	TOP CONC
STORE	30476	52698.30	44713.58	963.40	*	IG
STORE	30477	52698.48	44716.14	962.00	*	IG
STORE	30478	52698.46	44766.77	961.88	*	IG
STORE	30479	52805.78	44768.13	962.24	*	IG
STORE	30480	52803.23	44713.33	962.30	*	IG
STORE	30481	52803.23	44708.52	963.53	*	TOP CONC
STORE	30482	52803.56	44705.95	961.53	*	IC
STORE	30483	52803.00	44704.92	961.51	*	IC
STORE	30484	52802.99	44702.40	963.49	*	TOP CONC
STORE	30485	52803.05	44687.83	962.45	*	IG
STORE	30486	52802.61	44680.02	962.88	*	RE
STORE	30487	52802.20	44665.60	963.21	*	RC
STORE	30488	52802.41	44651.70	962.79	*	RE
STORE	30489	52802.06	44639.19	962.27	*	IG
STORE	30490	52802.33	44635.99	962.85	*	FO
STORE	30491	52802.80	44630.12	963.02	*	GB
STORE	30492	52802.66	44556.81	963.03	*	IG
STORE	30493	52902.69	44554.69	963.50	*	IG
STORE	30494	52903.36	44625.94	963.74	*	IG
STORE	30495	52903.40	44628.08	963.48	*	GB
STORE	30496	52903.81	44637.15	962.55	*	FO
STORE	30497	52904.03	44649.55	963.17	*	RE
STORE	30498	52951.28	44633.74	963.62	*	EP
STORE	30499	52903.28	44663.85	963.50	*	RC
STORE	30500	52903.46	44677.60	963.09	*	RE
STORE	30501	52904.19	44687.55	962.95	*	IG
STORE	30502	52904.62	44700.01	963.68	*	TOP CONC
STORE	30503	52904.79	44702.55	961.64	*	IC
STORE	30504	52905.02	44703.47	961.63	*	IC
STORE	30505	52905.18	44706.08	963.60	*	TOP CONC
STORE	30506	52905.51	44708.95	963.63	*	IG
STORE	30507	52905.75	44711.06	962.69	*	IG
STORE	30508	52907.13	44764.93	962.47	*	IG
STORE	30509	53009.83	44759.77	962.91	*	IG
STORE	30510	53009.33	44708.90	963.03	*	IG
STORE	30511	53009.55	44706.74	964.07	*	IG
STORE	30512	53010.12	44703.60	963.67	*	TOP CONC
STORE	30513	53010.01	44701.15	961.69	*	IC
STORE	30514	53009.90	44700.24	961.68	*	IC
STORE	30515	53009.75	44697.65	963.71	*	TOP CONC
STORE	30516	53009.41	44681.09	963.00	*	IG
STORE	30517	53009.49	44675.28	963.36	*	RE
STORE	30518	53009.42	44661.27	963.71	*	RC
STORE	30519	53008.89	44647.42	963.38	*	RE
STORE	30520	53009.00	44635.34	962.80	*	FO
STORE	30521	53008.74	44626.44	963.76	*	GB
STORE	30522	53006.10	44547.69	963.83	*	IG
STORE	30523	53104.79	44545.71	964.10	*	IG
STORE	30524	53106.08	44621.49	964.02	*	IG
STORE	30525	53105.77	44623.44	963.86	*	GB
STORE	30526	53105.80	44632.88	963.07	*	FO
STORE	30527	53106.76	44644.54	963.55	*	RE
STORE	30528	53107.02	44658.82	963.92	*	RC
STORE	30529	53107.30	44672.51	963.58	*	RE
STORE	30530	53107.79	44681.74	963.31	*	IG
STORE	30531	53107.29	44692.95	963.83	*	IG
STORE	30532	53107.21	44695.52	963.87	*	TOP CONC
STORE	30533	53106.93	44701.57	963.81	*	TOP CONC
STORE	30534	53105.91	44698.11	961.82	*	IC
STORE	30535	53106.48	44699.08	961.83	*	IC
STORE	30536	53106.68	44705.40	964.28	*	IG

STORE	30537	53106.49	44707.17	963.35	*	IG
STORE	30538	53107.57	44755.64	963.15	*	IG
STORE	30539	53211.86	44758.70	963.38	*	IG
STORE	30540	53209.80	44705.62	963.48	*	IG
STORE	30541	53209.31	44703.49	964.72	*	IG
STORE	30542	53208.37	44699.28	963.89	*	TOP CONC
STORE	30543	53208.08	44696.78	961.97	*	IC
STORE	30544	53207.74	44695.84	961.96	*	IC
STORE	30545	53207.98	44693.16	964.03	*	TOP CONC
STORE	30546	53207.36	44690.88	964.70	*	IG
STORE	30547	53207.20	44679.56	963.58	*	IG
STORE	30548	53207.25	44669.85	963.97	*	RE
STORE	30549	53206.99	44656.51	964.26	*	RC
STORE	30550	53206.81	44641.90	963.79	*	RE
STORE	30551	53206.33	44630.79	963.30	*	FO
STORE	30552	53205.25	44620.52	964.30	*	GB
STORE	30553	53204.14	44616.65	964.38	*	IG
STORE	30554	53200.92	44546.96	964.33	*	IG
STORE	30555	53309.66	44543.24	964.60	*	IG
STORE	30556	53309.88	44616.60	964.58	*	IG
STORE	30557	53310.07	44618.80	964.40	*	GB
STORE	30558	53310.34	44628.29	963.70	*	IG
STORE	30559	53310.82	44629.51	963.65	*	FO
STORE	30560	53281.93	44626.63	964.40	*	EP
STORE	30561	53310.37	44639.36	964.01	*	RE
STORE	30562	53310.96	44653.62	964.49	*	RC
STORE	30563	53311.33	44667.39	964.18	*	RE
STORE	30564	53311.68	44674.18	963.75	*	IG
STORE	30565	53312.01	44687.37	964.52	*	IG
STORE	30566	53312.40	44689.20	964.95	*	IG
STORE	30567	53312.40	44690.79	964.28	*	TOP CONC
STORE	30568	53312.68	44693.43	962.21	*	IC
STORE	30569	53312.00	44694.37	962.19	*	IC
STORE	30570	53312.15	44697.05	964.05	*	TUP CONC
STORE	30571	53312.20	44700.65	964.72	*	IG
STORE	30572	53312.36	44702.33	963.92	*	IG
STORE	30573	53313.55	44752.21	963.75	*	IG
STORE	30574	53412.00	44754.59	963.96	*	IG
STORE	30575	53409.90	44701.85	964.09	*	IG
STORE	30576	53410.82	44699.21	964.91	*	IG
STORE	30577	53411.05	44694.79	964.15	*	TOP CONC
STORE	30578	53411.16	44691.94	962.38	*	IC
STORE	30579	53410.83	44691.35	962.40	*	IC
STORE	30580	53411.10	44688.53	964.60	*	TOP CONC
STORE	30581	53410.87	44687.23	965.09	*	IG
STORE	30582	53410.87	44673.56	964.06	*	IG
STORE	30583	53410.93	44665.25	964.48	*	RE
STORE	30584	53410.52	44651.79	964.71	*	RC
STORE	30585	53410.16	44637.32	964.37	*	RE
STORE	30586	53409.56	44626.60	963.96	*	FO
STORE	30587	53409.43	44616.32	964.97	*	GB
STORE	30588	53404.09	44539.80	964.93	*	IG
STORE	30589	53426.85	44582.81	965.13	*	TR COR
STORE	30590	53430.65	44582.61	965.08	*	TR COR
STORE	30591	53430.58	44587.44	965.05	*	TR COR
STORE	30592	53426.78	44587.42	965.15	*	TR COR
STORE	30593	53417.45	44601.67	964.66	*	WF
STORE	30594	53424.90	44600.57	965.58	*	WV RIM
STORE	30595	53425.02	44600.55	959.95	*	WV NUT
STORE	30596	53438.95	44597.24	965.45	*	WV RIM
STORE	30597	53439.09	44597.23	960.07	*	WV NUT
STORE	30598	53439.79	44603.66	965.00	*	TR
STORE	30599	53508.95	44540.84	965.30	*	IG
STORE	30600	53509.07	44600.11	965.10	*	IG
STORE	30601	53509.71	44614.34	965.05	*	GB
STORE	30602	53509.80	44624.74	964.39	*	FO
STORE	30603	53509.27	44635.27	964.69	*	RE
STORE	30604	53509.68	44649.85	965.04	*	RC
STORE	30605	53509.98	44663.45	964.75	*	RE
STORE	30606	53510.24	44671.55	964.73	*	IG
STORE	30607	53510.91	44681.92	965.06	*	IG

STORE	30608	53511.12	44684.30	965.88	*	IG
STORE	30609	53511.50	44686.28	964.52	*	TOP CONC
STORE	30610	53511.68	44689.06	962.58	*	IC
STORE	30611	53511.50	44689.95	962.59	*	IC
STORE	30612	53511.65	44692.71	964.54	*	TOP CONC
STORE	30613	53511.77	44696.95	964.94	*	IG
STORE	30614	53510.65	44698.92	964.25	*	IG
STORE	30615	53511.76	44749.05	964.26	*	IG
STORE	30616	53604.38	44541.15	965.44	*	IG
STORE	30617	53603.77	44583.63	964.96	*	IG
STORE	30618	53605.52	44606.67	965.51	*	IG
STORE	30619	53628.43	44599.43	965.47	*	TR
STORE	30620	53605.50	44612.48	965.14	*	GB
STORE	30621	53603.40	44619.49	965.45	*	EP
STORE	30622	53605.64	44622.19	964.50	*	FO
STORE	30623	53606.16	44633.50	965.03	*	RE
STORE	30624	53605.64	44647.79	965.39	*	RC
STORE	30625	53606.18	44661.37	965.06	*	RE
STORE	30626	53606.66	44668.17	964.64	*	IG
STORE	30627	53606.92	44680.91	965.54	*	IG
STORE	30628	53606.99	44682.43	965.93	*	IG
STORE	30629	53606.83	44684.33	965.17	*	TOP CONC
STORE	30630	53607.45	44686.95	963.19	*	IC
STORE	30631	53607.06	44687.81	963.19	*	IC
STORE	30632	53607.09	44690.42	965.26	*	TOP CONC
STORE	30633	53607.79	44694.33	965.65	*	IG
STORE	30634	53607.87	44696.46	964.66	*	IG
STORE	30635	53606.67	44747.50	964.49	*	IG
STORE	30636	53706.01	44748.52	964.79	*	IG
STORE	30637	53706.31	44694.33	964.73	*	IG
STORE	30638	53705.27	44659.49	965.24	*	RE
STORE	30639	53705.74	44645.49	965.71	*	RC
STORE	30640	53704.92	44631.50	965.38	*	RE
STORE	30641	53704.13	44619.52	964.80	*	FO
STORE	30642	53703.89	44617.71	965.32	*	IG
STORE	30643	53703.99	44610.26	965.71	*	GB
STORE	30644	53703.29	44580.62	965.27	*	IG
STORE	30645	53701.21	44517.73	965.93	*	IG
STORE	30646	53797.53	44514.53	966.11	*	IG
STORE	30647	53798.91	44579.50	965.56	*	IG
STORE	30648	53799.31	44604.14	966.42	*	IG
STORE	30649	53799.35	44607.09	966.22	*	GB
STORE	30650	53799.82	44616.47	965.16	*	FO
STORE	30651	53826.41	44611.59	966.11	*	TR W/RG
STORE	30652	53800.09	44629.25	965.69	*	RE
STORE	30653	53800.55	44643.64	965.96	*	RC
STORE	30654	53800.54	44657.15	965.47	*	RE
STORE	30655	53800.51	44666.00	965.15	*	IG
STORE	30656	53799.92	44676.12	965.90	*	IG
STORE	30657	53799.86	44677.42	966.53	*	IG
STORE	30658	53800.23	44679.81	965.73	*	TOP CONC
STORE	30659	53799.83	44682.39	963.76	*	IC
STORE	30660	53799.86	44683.39	963.79	*	IC
STORE	30661	53800.33	44685.90	965.82	*	TOP CONC
STORE	30662	53800.18	44689.99	966.11	*	IG
STORE	30663	53800.33	44692.60	965.25	*	IG
STORE	30664	53801.51	44742.78	965.11	*	IG
STORE	30665	53900.64	44749.52	965.26	*	IG
STORE	30667	53898.78	44701.07	965.63	*	IG
STORE	30668	53899.69	44694.21	967.09	*	IG
STORE	30669	53901.02	44673.69	966.85	*	IG
STORE	30670	53901.40	44661.40	965.90	*	IG
STORE	30671	53901.52	44655.19	966.21	*	RE
STORE	30672	53900.51	44641.58	966.50	*	RC
STORE	30673	53900.38	44627.28	966.05	*	RE
STORE	30674	53900.49	44615.19	965.64	*	FO
STORE	30675	53900.54	44605.52	966.60	*	GB
STORE	30676	53899.46	44577.09	966.01	*	IG
STORE	30677	53896.81	44526.71	966.42	*	IG
STORE	30678	53921.47	44612.20	966.69	*	EP
STORE	30679	53884.92	44681.24	963.79	*	INV 24INCONCPIPE

STORE	30680	53907.72	44680.80	964.14	*	INV 24INCONCPIPE
STORE	30681	53932.52	44680.10	964.40	*	INV 24INCONCPIPE
STORE	30682	53948.07	44679.74	964.59	*	INV 24INCONCPIPE
STORE	30683	53919.59	44674.68	967.96	*	EP
STORE	30684	53920.57	44683.97	967.66	*	FC 6FTHI CHLK
STORE	30685	53920.00	44703.44	966.76	*	FC 6FTHI CHLK
STORE	30686	53903.16	44698.63	966.90	*	FC 6FTHI CHLK
STORE	30687	53902.39	44684.43	967.22	*	FC 6FTHI CHLK
STORE	30688	53885.80	44684.10	967.04	*	TOP CONC
STORE	30689	53885.51	44678.50	966.40	*	TOP CONC
STORE	30690	53906.52	44682.75	968.18	*	TOP CONC
STORE	30691	53906.87	44677.80	968.13	*	TOP CONC
STORE	30692	53933.14	44676.77	967.66	*	TOP CONC
STORE	30693	53933.31	44684.11	967.83	*	TOP CONC
STORE	30694	53928.96	44685.64	967.47	*	TOP CONC
STORE	30695	53922.68	44685.47	967.56	*	TOP CONC
STORE	30696	53927.62	44685.58	965.23	*	IC
STORE	30697	53925.29	44685.70	965.14	*	IC
STORE	30698	53936.58	44752.19	966.82	*	IG
STORE	30699	53933.51	44752.17	967.27	*	IG
STORE	30700	53931.07	44752.11	966.55	*	TOP CONC
STORE	30701	53928.59	44751.99	965.12	*	IC
STORE	30702	53926.36	44751.85	965.05	*	IC
STORE	30703	53924.28	44751.52	966.50	*	TOP CONC
STORE	30704	53922.06	44751.69	967.10	*	IG
STORE	30705	53917.70	44751.38	965.78	*	IG
STORE	30706	54004.52	44653.03	966.68	*	RE
STORE	30707	54004.60	44660.43	966.39	*	IG
STORE	30708	54005.03	44670.20	966.55	*	IG
STORE	30709	54005.24	44675.78	967.56	*	TOP CONC
STORE	30710	54005.45	44678.39	965.64	*	IC
STORE	30711	54005.17	44679.24	965.66	*	IC
STORE	30712	54005.08	44681.79	967.72	*	TOP CONC
STORE	30713	54005.55	44684.05	968.83	*	IG
STORE	30714	54005.55	44686.08	967.44	*	IG
STORE	30715	54008.15	44740.00	966.61	*	IG
STORE	30716	54004.16	44639.43	966.95	*	RC
STORE	30717	54003.93	44625.35	966.51	*	RE
STORE	30718	54003.80	44614.41	966.17	*	IG
STORE	30719	54003.92	44611.70	966.50	*	FO
STORE	30720	54003.67	44604.49	966.71	*	GB
STORE	30721	54004.27	44573.33	966.37	*	IG
STORE	30722	54004.28	44534.05	966.75	*	IG
STORE	30723	54022.99	44584.27	966.74	*	WV RIM
STORE	30724	54022.77	44584.33	961.25	*	WV NUT
STORE	30725	54026.98	44587.90	967.40	*	WV RIM
STORE	30726	54027.04	44587.73	962.06	*	WV NUT
STORE	30727	54027.66	44600.93	966.90	*	WF
STORE	30728	54050.98	44586.64	967.76	*	WV RIM
STORE	30729	54051.04	44586.72	966.39	*	WV NUT
STORE	30730	54050.73	44583.60	967.83	*	WV RIM
STORE	30731	54050.74	44583.81	965.40	*	WV NUT
STORE	30732	54099.98	44524.78	967.23	*	IG
STORE	30733	54101.24	44572.99	966.84	*	IG
STORE	30734	54102.62	44598.86	967.49	*	IG
STORE	30735	54102.33	44602.14	967.35	*	GB
STORE	30736	54102.22	44609.87	966.57	*	FO
STORE	30737	54102.76	44623.21	967.20	*	RE
STORE	30738	54103.05	44637.12	967.56	*	RC
STORE	30739	54103.47	44651.06	967.17	*	RE
STORE	30740	54103.05	44668.18	966.98	*	IG
STORE	30741	54102.88	44671.92	968.27	*	IG
STORE	30742	54102.86	44673.42	967.66	*	TOP CONC
STORE	30743	54103.26	44676.10	965.70	*	IC
STORE	30744	54103.25	44676.99	965.71	*	IC
STORE	30745	54103.44	44679.53	967.75	*	TOP CONC
STORE	30746	54103.86	44682.22	969.11	*	IG
STORE	30747	54103.82	44685.35	967.30	*	IG
STORE	30748	54104.28	44741.38	966.73	*	IG
STORE	30749	54202.47	44744.28	966.80	*	IG
STORE	30750	54203.15	44683.82	967.62	*	IG

STORE	30751	54202.77	44679.82	969.37	*	IG
STORE	30752	54202.38	44677.37	967.94	*	TOP CONC
STORE	30753	54202.86	44674.69	965.88	*	IC
STORE	30754	54202.60	44673.97	965.87	*	IC
STORE	30755	54203.07	44671.17	967.84	*	TOP CONC
STORE	30756	54202.79	44669.42	968.49	*	IG
STORE	30757	54203.70	44666.66	967.66	*	IG
STORE	30758	54203.61	44648.69	967.87	*	RE
STORE	30759	54202.49	44635.20	968.08	*	RC
STORE	30760	54202.38	44620.85	967.64	*	RE
STORE	30761	54202.16	44608.48	966.89	*	FO
STORE	30762	54202.14	44599.92	967.70	*	GB
STORE	30763	54202.22	44596.57	968.01	*	IG
STORE	30764	54201.18	44569.68	967.17	*	IG
STORE	30765	54199.88	44517.55	967.56	*	IG
STORE	30766	54304.12	44515.69	967.97	*	IG
STORE	30767	54304.06	44568.34	967.65	*	IG
STORE	30768	54329.44	44584.52	968.27	*	TR
STORE	30769	54304.94	44594.87	968.78	*	IG
STORE	30770	54304.37	44597.17	968.58	*	GB
STORE	30771	54283.86	44604.25	968.41	*	EP
STORE	30772	54304.12	44606.81	967.42	*	FO
STORE	30773	54304.34	44619.01	968.23	*	RE
STORE	30774	54337.99	44618.03	968.33	*	RE ANG PT
STORE	30775	54304.50	44633.20	968.63	*	RC
STORE	30776	54305.00	44646.78	968.42	*	RE
STORE	30777	54305.61	44660.09	968.09	*	IG
STORE	30778	54305.83	44666.85	969.05	*	IG
STORE	30779	54306.09	44668.91	967.95	*	TOP CONC
STORE	30780	54306.27	44671.64	965.97	*	IC
STORE	30781	54306.12	44672.35	965.98	*	IC
STORE	30782	54306.31	44675.02	968.04	*	IG
STORE	30783	54305.82	44677.73	969.66	*	IG
STORE	30784	54305.78	44681.39	967.88	*	IG
STORE	30785	54307.60	44745.21	967.55	*	IG
STORE	30786	54406.92	44740.86	967.92	*	IG
STORE	30787	54405.67	44680.04	968.27	*	IG
STORE	30788	54405.88	44676.13	970.10	*	IG
STORE	30789	54405.43	44672.92	968.10	*	TOP CONC
STORE	30790	54405.23	44670.23	966.03	*	IC
STORE	30791	54405.23	44669.39	966.02	*	IC
STORE	30792	54404.91	44666.75	967.98	*	TOP CONC
STORE	30793	54404.78	44663.86	969.56	*	IG
STORE	30794	54404.84	44660.48	968.37	*	IG
STORE	30795	54405.33	44644.39	968.55	*	RE
STORE	30796	54405.07	44630.69	968.88	*	RC
STORE	30797	54405.80	44615.03	968.42	*	RE
STORE	30798	54406.09	44604.62	967.88	*	FO
STORE	30799	54406.30	44595.30	968.96	*	GB
STORE	30800	54406.70	44592.30	969.17	*	IG
STORE	30801	54406.45	44565.66	968.06	*	IG
STORE	30802	54404.57	44500.88	968.32	*	IG
STORE	30803	54507.32	44498.84	968.61	*	IG
STORE	30804	54507.90	44564.61	968.35	*	IG
STORE	30805	54507.51	44589.24	969.46	*	IG
STORE	30806	54507.50	44591.86	969.29	*	GB
STORE	30807	54508.01	44601.85	968.44	*	FO
STORE	30808	54508.08	44611.24	968.92	*	RE
STORE	30809	54467.05	44599.84	969.11	*	RG
STORE	30810	54509.43	44628.40	969.12	*	RC
STORE	30811	54509.05	44642.25	968.86	*	RE
STORE	30812	54509.03	44657.85	968.56	*	IG
STORE	30813	54509.21	44661.33	969.71	*	IG
STORE	30814	54509.33	44664.58	968.11	*	TOP CONC
STORE	30815	54509.18	44667.20	966.13	*	IC
STORE	30816	54509.17	44668.09	966.17	*	IC
STORE	30817	54509.27	44670.69	968.22	*	TOP CONC
STORE	30818	54508.89	44674.23	970.41	*	IG
STORE	30819	54509.47	44678.15	968.70	*	IG
STORE	30820	54509.85	44737.95	968.37	*	IG
STORE	30821	54609.93	44519.11	968.98	*	IG

STORE	30822	54608.35	44562.61	968.67	*	IG
STORE	30823	54609.16	44588.98	969.59	*	GB
STORE	30824	54635.90	44570.34	970.22	*	WV RIM
STORE	30825	54635.98	44570.51	965.15	*	WV NUT
STORE	30826	54635.61	44574.27	970.25	*	WV RIM
STORE	30827	54635.75	44574.26	965.52	*	WV NUT
STORE	30828	54633.15	44570.78	969.21	*	RG
STORE	30829	54647.29	44596.28	970.07	*	EP
STORE	30830	54608.63	44598.70	968.84	*	FO
STORE	30831	54609.85	44606.87	969.18	*	RE
STORE	30832	54609.99	44625.76	969.34	*	RC
STORE	30833	54609.69	44639.87	968.93	*	RE
STORE	30834	54609.27	44645.77	968.47	*	IG
STORE	30835	54609.79	44656.31	968.57	*	IG
STORE	30836	54609.83	44659.37	969.68	*	IG
STORE	30837	54609.73	44662.33	968.28	*	TOP CONC
STORE	30838	54610.27	44668.42	968.37	*	TOP CONC
STORE	30839	54609.70	44664.83	966.32	*	IC
STORE	30840	54610.06	44665.82	966.32	*	IC
STORE	30841	54609.98	44672.10	970.65	*	IG
STORE	30842	54609.63	44675.45	969.15	*	IG
STORE	30843	54606.44	44731.14	968.62	*	IG
STORE	30844	54709.41	44730.55	968.84	*	IG
STORE	30845	54708.26	44675.31	969.34	*	IG
STORE	30846	54708.17	44670.37	971.21	*	IG
STORE	30847	54708.05	44666.32	968.42	*	TOP CONC
STORE	30848	54707.84	44660.23	968.35	*	TOP CONC
STORE	30849	54708.29	44662.76	966.39	*	IC
STORE	30850	54707.86	44663.74	966.37	*	IC
STORE	30851	54707.68	44656.31	970.24	*	IG
STORE	30852	54707.30	44653.67	969.16	*	IG
STORE	30853	54712.00	44646.84	968.90	*	RG
STORE	30854	54708.24	44643.48	968.75	*	IG
STORE	30855	54708.18	44637.97	969.26	*	RE
STORE	30856	54707.72	44623.78	969.61	*	RC
STORE	30857	54707.85	44603.20	969.48	*	RE
STORE	30858	54707.60	44598.46	969.25	*	FO
STORE	30859	54707.39	44595.91	969.26	*	IG
STORE	30860	54707.62	44589.22	969.77	*	GB
STORE	30861	54707.24	44586.68	969.87	*	IG
STORE	30862	54715.47	44585.21	969.76	*	WF
STORE	30863	54708.93	44553.69	968.86	*	IG
STORE	30864	54706.95	44504.78	969.23	*	IG
STORE	30865	54755.42	44592.00	969.86	*	RG
STORE	30866	54808.90	44514.08	969.56	*	IG
STORE	30867	54808.60	44549.85	969.09	*	IG
STORE	30868	54808.52	44582.64	970.27	*	IG
STORE	30869	54808.75	44586.05	969.99	*	GB
STORE	30870	54808.85	44592.70	969.49	*	IG
STORE	30871	54808.55	44595.68	969.51	*	FO
STORE	30872	54808.90	44601.02	969.70	*	RE
STORE	30873	54809.05	44622.41	970.04	*	RC
STORE	30874	54809.40	44635.91	969.80	*	RE
STORE	30875	54809.77	44651.56	969.48	*	IG
STORE	30876	54809.88	44655.17	969.90	*	IG
STORE	30877	54810.09	44657.85	968.43	*	TOP CONC
STORE	30878	54810.11	44663.98	968.46	*	TOP CONC
STORE	30879	54810.12	44661.40	966.42	*	IC
STORE	30880	54809.96	44660.56	966.40	*	IC
STORE	30881	54811.23	44669.33	971.65	*	IG
STORE	30882	54810.30	44673.13	969.88	*	IG
STORE	30883	54810.30	44724.30	969.35	*	IG
STORE	30884	54911.25	44728.44	969.67	*	IG
STORE	30885	54909.10	44671.87	970.02	*	IG
STORE	30886	54908.93	44667.00	971.93	*	IG
STORE	30887	54908.53	44661.82	968.66	*	TOP CONC
STORE	30888	54908.06	44655.76	968.55	*	TOP CONC
STORE	30889	54908.32	44659.23	966.58	*	IC
STORE	30890	54908.28	44658.42	966.57	*	IC
STORE	30891	54908.17	44651.94	970.46	*	IG
STORE	30892	54908.06	44649.88	969.73	*	IG

STORE	30893	54902.64	44647.13	969.77	*	RG
STORE	30894	54903.12	44644.16	969.80	*	RG
STORE	30895	54907.41	44633.92	970.07	*	RE
STORE	30896	54907.22	44618.82	970.46	*	RC
STORE	30897	54906.62	44595.49	970.10	*	RE
STORE	30898	54907.36	44593.58	969.97	*	FO
STORE	30899	54907.32	44589.35	969.89	*	IG
STORE	30900	54907.67	44583.32	970.23	*	GB
STORE	30901	54906.91	44557.32	969.43	*	IG
STORE	30902	54904.52	44499.07	969.78	*	IG
STORE	30903	55013.51	44587.78	970.52	*	EP
STORE	30904	55029.39	44582.71	971.07	*	RG
STORE	30905	55029.22	44578.93	971.05	*	RG
STORE	30906	55005.61	44500.57	970.01	*	IG
STORE	30907	55005.57	44555.92	969.78	*	IG
STORE	30908	55004.99	44577.27	970.84	*	IG
STORE	30909	55005.26	44581.23	970.62	*	GB
STORE	30910	55005.27	44587.58	970.53	*	IG
STORE	30911	55005.10	44591.63	970.43	*	FO/RE
STORE	30912	55005.53	44617.20	970.79	*	RC
STORE	30913	55006.26	44631.92	970.38	*	RE
STORE	30914	55006.49	44648.06	969.99	*	IG
STORE	30915	55006.20	44649.95	970.40	*	IG
STORE	30916	55006.35	44653.62	968.73	*	TOP CONC
STORE	30917	55006.91	44659.66	968.81	*	TOP CONC
STORE	30918	55007.17	44657.14	966.75	*	IC
STORE	30919	55007.09	44656.24	966.74	*	IC
STORE	30920	55006.62	44665.14	971.93	*	IG
STORE	30921	55007.05	44669.79	970.13	*	IG
STORE	30922	55007.19	44727.52	970.03	*	IG
STORE	30923	55067.50	44676.04	970.30	*	RG
STORE	30924	55067.24	44682.59	970.51	*	RG
STORE	30925	55101.40	44723.57	969.96	*	IG
STORE	30926	55102.83	44666.94	970.60	*	IG
STORE	30927	55102.79	44662.90	972.15	*	IG
STORE	30928	55102.65	44657.40	968.90	*	TOP CONC
STORE	30929	55102.32	44651.48	968.88	*	TOP CONC
STORE	30930	55102.34	44655.03	966.93	*	IC
STORE	30931	55102.31	44654.04	966.87	*	IC
STORE	30932	55102.59	44647.90	970.69	*	IG
STORE	30933	55109.10	44636.25	971.09	*	WM
STORE	30934	55102.69	44629.95	970.96	*	RE
STORE	30935	55102.12	44614.79	971.35	*	RC
STORE	30936	55101.18	44589.76	971.09	*	RE
STORE	30937	55110.56	44585.23	971.16	*	TR
STORE	30938	55101.83	44580.98	970.92	*	GB
STORE	30939	55100.90	44571.91	971.09	*	IG
STORE	30940	55100.28	44546.91	970.03	*	IG
STORE	30941	55099.77	44486.05	970.28	*	IG
STORE	30942	55135.95	44579.42	971.73	*	GV
STORE	30943	55356.25	44519.24	972.36	*	IG
STORE	30944	55358.26	44564.34	972.89	*	IG
STORE	30945	55358.14	44567.51	971.42	*	IG TOE
STORE	30946	55356.30	44570.50	971.42	*	IG TOE
STORE	30947	55356.37	44573.40	973.29	*	IG
STORE	30948	55355.68	44581.38	972.20	*	IG
STORE	30949	55355.49	44589.36	972.48	*	RE
STORE	30950	55356.94	44614.98	972.78	*	RC
STORE	30951	55357.32	44629.55	972.57	*	RE
STORE	30952	55358.03	44642.56	971.80	*	IG
STORE	30953	55350.82	44652.20	973.62	*	TR
STORE	30954	55358.37	44651.67	973.93	*	IG
STORE	30955	55358.40	44658.51	969.50	*	IG TOE
STORE	30956	55358.21	44661.70	969.21	*	IG TOE
STORE	30957	55358.05	44667.50	973.38	*	IG
STORE	30958	55358.26	44732.09	971.74	*	IG
STORE	30959	55454.34	44735.53	971.92	*	IG
STORE	30960	55451.91	44668.07	973.39	*	IG
STORE	30961	55451.96	44666.70	974.30	*	IG
STORE	30962	55450.69	44659.74	969.26	*	IG TOE
STORE	30963	55450.46	44657.86	969.21	*	IG TOE

STORE	30964	55451.11	44650.16	974.36	*	IG
STORE	30965	55451.19	44641.34	972.01	*	IG
STORE	30966	55451.75	44629.46	972.81	*	RE
STORE	30967	55451.41	44611.15	973.18	*	RC
STORE	30968	55452.03	44589.61	972.78	*	RE
STORE	30969	55452.41	44579.52	972.35	*	IG
STORE	30970	55452.30	44572.12	973.78	*	IG
STORE	30971	55451.80	44567.42	971.50	*	IG TOE
STORE	30972	55451.97	44566.16	971.62	*	IG TOE
STORE	30973	55452.27	44561.82	973.81	*	IG
STORE	30974	55452.17	44553.77	973.08	*	IG
STORE	30975	55453.87	44517.81	972.78	*	IG
STORE	30976	55552.40	44520.94	972.29	*	IG
STORE	30977	55552.07	44562.58	974.36	*	IG
STORE	30978	55551.86	44566.53	971.84	*	IG TOE
STORE	30979	55551.94	44567.68	971.79	*	IG TOE
STORE	30980	55551.87	44572.33	974.63	*	IG
STORE	30981	55552.33	44582.22	972.69	*	IG
STORE	30982	55545.01	44581.24	972.98	*	RG
STORE	30983	55545.35	44578.21	973.11	*	RG
STORE	30984	55549.71	44590.96	973.36	*	RE
STORE	30985	55548.72	44610.23	973.64	*	RC
STORE	30986	55548.77	44629.26	973.39	*	RE
STORE	30987	55549.12	44641.18	972.27	*	IG
STORE	30988	55549.06	44650.84	974.48	*	IG
STORE	30989	55439.22	44649.50	973.89	*	TR
STORE	30990	55548.79	44657.06	969.77	*	IG TOE
STORE	30991	55549.10	44661.42	969.77	*	IG TOE
STORE	30992	55548.70	44667.59	974.66	*	IG
STORE	30993	55548.96	44669.53	973.78	*	IG
STORE	30994	55549.79	44729.68	972.58	*	IG
STORE	30995	55649.22	44728.57	972.77	*	IG
STORE	30996	55649.59	44669.17	973.88	*	IG
STORE	30997	55649.68	44666.15	974.82	*	IG
STORE	30998	55649.65	44662.76	971.35	*	IG TOE
STORE	30999	55667.54	44662.44	973.66	*	IH
STORE	31000	55296.78	44661.89	974.05	*	IH
STORE	31001	55295.32	44660.09	974.07	*	IH
STORE	31002	55291.13	44659.82	974.06	*	IH
STORE	31003	55291.47	44655.27	974.05	*	IH
STORE	31004	55295.71	44655.58	974.03	*	IH
STORE	31005	55297.55	44654.05	974.02	*	IH
STORE	31006	55302.89	44571.94	973.83	*	IH
STORE	31007	55301.38	44570.16	973.87	*	IH
STORE	31008	55297.59	44569.93	973.85	*	IH
STORE	31009	55297.84	44565.35	973.85	*	IH
STORE	31010	55301.47	44565.57	973.86	*	IH
STORE	31011	55303.28	44563.97	973.85	*	IH
STORE	31012	55215.10	44571.94	974.46	*	IH
STORE	31013	55213.43	44573.62	974.45	*	IH
STORE	31014	55213.50	44578.69	974.48	*	IH
STORE	31015	55207.63	44578.83	974.49	*	IH
STORE	31016	55207.51	44573.75	974.46	*	IH
STORE	31017	55205.76	44572.03	974.45	*	IH
STORE	31018	55216.01	44633.07	972.95	*	IH
STORE	31019	55208.67	44633.01	972.95	*	IH
STORE	31020	55206.21	44635.61	972.88	*	IH
STORE	31021	55206.22	44637.62	972.93	*	IH
STORE	31022	55202.06	44637.61	972.86	*	IH
STORE	31023	55199.35	44635.02	972.75	*	IH
STORE	31024	55199.43	44644.98	972.86	*	IH
STORE	31025	55202.01	44642.31	972.94	*	IH
STORE	31026	55206.11	44642.22	972.99	*	IH
STORE	31027	55206.21	44644.17	973.00	*	IH
STORE	31028	55208.74	44646.52	973.00	*	IH
STORE	31029	55210.64	44646.46	972.96	*	IH
STORE	31030	55210.77	44650.61	972.97	*	IH
STORE	31031	55208.31	44653.20	972.99	*	IH
STORE	31032	55218.15	44653.01	972.98	*	IH
STORE	31033	55215.45	44650.38	972.94	*	IH
STORE	31034	55215.39	44646.33	972.94	*	IH

STORE	31035	55217.34	44646.28	972.92	*	IH
STORE	31036	55292.57	44657.51	969.05	*	INV. 18IN. RCP
STORE	31037	55293.58	44656.73	968.62	*	INV. 24IN. RCP
STORE	31038	55299.69	44568.90	969.08	*	INV. 24IN. RCP
STORE	31039	55210.37	44577.69	968.06	*	INV. 36IN. RCP
STORE	31040	55213.15	44634.02	967.44	*	INV. 36IN. RCP
STORE	31041	55183.31	44655.41	966.47	*	INV. 18IN.PCP
STORE	31042	55216.27	44630.50	971.62	*	RE
STORE	31043	55230.63	44636.68	971.90	*	RE
STORE	31044	55235.01	44648.49	972.04	*	RE
STORE	31045	55275.83	44650.54	972.23	*	RE
STORE	31046	55280.77	44636.34	972.03	*	RE
STORE	31047	55289.96	44629.32	972.16	*	RE
STORE	31048	55293.35	44588.95	972.22	*	RE
STORE	31049	55279.69	44581.62	972.31	*	RE
STORE	31050	55276.23	44568.62	972.49	*	RE
STORE	31051	55234.53	44567.88	972.11	*	RE
STORE	31052	55227.32	44582.64	971.87	*	RE
STORE	31053	55212.60	44589.37	971.90	*	RE
STORE	31054	55216.37	44609.74	972.14	*	RP
STORE	31055	55255.51	44608.76	972.69	*	RP
STORE	31056	55297.06	44609.56	972.45	*	RP
STORE	31057	55255.55	44566.82	972.79	*	RP
STORE	31058	55255.39	44649.38	972.57	*	RP
STORE	31059	55290.51	44636.29	972.14	*	TR
STORE	31060	55279.77	44649.34	972.00	*	RG STOP
STORE	31061	55216.37	44631.59	971.39	*	RG STOP
STORE	31062	55195.28	44633.63	971.47	*	RG
STORE	31063	55163.81	44570.84	971.25	*	GV SOUTH END
STORE	31064	55169.33	44570.84	971.24	*	GV NORTH END
STORE	31065	55160.61	44568.62	971.40	*	4FT. GUARD POST
STORE	31066	55160.51	44571.35	971.28	*	4FT. GUARD POST
STORE	31067	55160.68	44574.20	971.59	*	4FT. GUARD POST
STORE	31068	55163.52	44574.19	971.31	*	4FT. GUARD POST
STORE	31069	55166.39	44574.22	971.27	*	4FT. GUARD POST
STORE	31070	55169.39	44574.25	971.32	*	4FT. GUARD POST
STORE	31071	55172.31	44574.19	971.40	*	4FT. GUARD POST
STORE	31072	55172.35	44571.49	971.32	*	4FT. GUARD POST
STORE	31073	55172.39	44568.46	971.33	*	4FT. GUARD POST
STORE	31074	55186.43	44564.47	971.57	*	TR
STORE	31075	55186.61	44566.08	971.74	*	TR
STORE	31076	55189.15	44565.86	971.63	*	TR
STORE	31077	55189.07	44564.33	971.57	*	TR
STORE	31078	55219.93	44584.53	972.12	*	RG
STORE	31079	55229.18	44566.87	972.24	*	RG STOP
STORE	31080	55218.04	44584.18	972.25	*	EG
STORE	31081	55205.77	44583.24	972.62	*	EP
STORE	31082	55177.78	44576.02	971.66	*	WF
STORE	31083	55208.42	44564.73	973.02	*	TOP OF LINING
STORE	31084	55214.94	44564.48	973.11	*	TOP OF LINING
STORE	31085	55212.17	44564.37	970.88	*	TOE OF LINING
STORE	31086	55211.27	44564.58	970.86	*	TOE OF LINING
STORE	31087	55181.47	44651.81	967.17	*	TOE OF LINING
STORE	31088	55199.83	44638.22	968.71	*	TOE OF LINING
STORE	31089	55198.98	44642.70	968.55	*	TOE OF LINING
STORE	31090	55184.39	44653.74	966.85	*	TOE OF LINING
STORE	31091	55185.95	44655.82	970.31	*	TOP OF LINING
STORE	31092	55198.41	44645.74	971.24	*	TOP OF LINING
STORE	31093	55197.44	44635.16	971.58	*	TOP OF LINING
STORE	31094	55178.90	44649.56	969.32	*	TOP OF LINING
STORE	31095	55178.73	44645.22	971.24	*	IG
STORE	31096	55184.01	44661.46	971.89	*	IG
STORE	31097	55183.96	44699.83	970.79	*	IG
STORE	31098	55209.83	44705.74	971.91	*	TOP OF LINING
STORE	31099	55212.05	44706.09	969.97	*	TOE OF LINING
STORE	31100	55213.47	44706.23	969.98	*	TOE OF LINING
STORE	31101	55215.54	44706.17	971.84	*	TOP OF LINING
STORE	31102	55219.56	44706.33	972.27	*	IG
STORE	31103	55224.50	44706.25	970.65	*	IG
STORE	31104	55234.90	44707.00	971.97	*	RE
STORE	31105	55255.73	44706.95	972.39	*	RE

STORE	31106	55275.42	44707.57	972.22	*	RE
STORE	31107	55285.34	44707.72	971.53	*	IG
STORE	31108	55299.29	44707.87	973.02	*	IG
STORE	31109	55295.16	44581.91	972.35	*	RG
STORE	31110	55307.84	44543.36	973.47	*	TR
STORE	31111	55304.49	44618.71	967.62	*	WV TOP NUT
STORE	31112	55232.83	44620.39	966.68	*	WV TOP NUT
STORE	31113	55228.06	44625.03	966.56	*	WV TOP NUT
STORE	31114	55301.73	44562.17	968.85	*	WV TOP NUT
STORE	31115	55297.38	44555.27	968.79	*	WV TOP NUT
STORE	31116	55237.09	44568.18	972.18	*	GV
STORE	31117	55135.83	44579.44	971.74	*	GV
STORE	31118	55135.43	44518.66	970.22	*	IG
STORE	31119	55135.25	44562.25	971.01	*	IG
STORE	31120	55135.92	44588.71	971.34	*	RE
STORE	31121	55136.05	44614.07	971.68	*	RP
STORE	31122	55134.94	44629.91	971.27	*	RE
STORE	31123	55135.06	44647.75	970.87	*	IG
STORE	31124	55135.27	44650.69	968.89	*	TOP OF LINING
STORE	31125	55134.72	44653.18	966.94	*	TOE OF LINING
STORE	31126	55132.77	44654.36	966.94	*	TOE OF LINING
STORE	31127	55133.47	44656.93	968.97	*	TOP OF LINING
STORE	31128	55133.43	44662.73	972.22	*	IG
STORE	31129	55133.11	44666.86	970.50	*	IG
STORE	31130	55131.37	44722.66	970.11	*	IG
STORE	31131	55190.11	44547.47	972.59	*	TOP OF LINING
STORE	31132	55186.15	44552.87	972.56	*	TOP OF LINING
STORE	31133	55182.31	44545.60	972.49	*	TOP OF LINING
STORE	31134	55185.14	44545.96	971.05	*	TOE OF LINING
STORE	31135	55187.64	44545.40	971.15	*	TOE OF LINING
STORE	31136	55308.19	44481.21	972.22	*	WF
STORE	31137	55304.56	44481.17	969.36	*	WV NUT
STORE	31138	55288.33	44494.33	973.06	*	EP
STORE	31139	55402.83	44472.08	972.06	*	IG
STORE	31140	55343.15	44476.13	972.29	*	IG
STORE	31141	55310.45	44477.38	972.89	*	IG
STORE	31142	55291.19	44478.62	972.88	*	IG
STORE	31143	55275.69	44480.35	972.83	*	RE
STORE	31144	55254.96	44480.06	973.16	*	RP
STORE	31145	55235.87	44480.19	972.63	*	RE
STORE	31146	55226.64	44480.42	972.35	*	IG
STORE	31147	55217.61	44480.25	973.62	*	IG
STORE	31148	55215.89	44480.23	973.22	*	TOP OF LINING
STORE	31149	55212.97	44480.34	971.02	*	TOE OF LINING
STORE	31150	55212.03	44480.25	971.01	*	TOE OF LINING
STORE	31151	55208.97	44480.04	973.14	*	TOP OF LINING
STORE	31152	55201.60	44479.75	971.90	*	IG
STORE	31153	55193.14	44479.73	971.95	*	IG
STORE	31154	55190.79	44479.80	972.76	*	IG
STORE	31155	55189.37	44480.39	972.37	*	TOP OF LINING
STORE	31156	55187.27	44480.37	971.10	*	TOE OF LINING
STORE	31157	55185.60	44480.11	971.09	*	TOE OF LINING
STORE	31158	55183.07	44480.03	972.60	*	TOP OF LINING
STORE	31159	55182.37	44479.80	972.51	*	IG
STORE	31160	55178.95	44479.87	970.12	*	IG
STORE	31161	55148.16	44480.13	970.43	*	IG
STORE	31162	55133.22	44479.60	970.22	*	IG
STORE	31163	55130.09	44376.61	970.60	*	IG
STORE	31164	55181.03	44379.79	970.73	*	IG
STORE	31165	55184.09	44380.30	972.77	*	IG
STORE	31166	55184.54	44380.23	972.90	*	TOP OF LINING
STORE	31167	55187.05	44380.33	971.54	*	TOE OF LINING
STORE	31168	55188.23	44380.34	971.54	*	TOE OF LINING
STORE	31169	55190.14	44380.40	972.41	*	TOP OF LINING
STORE	31170	55191.86	44380.37	973.14	*	IG
STORE	31171	55193.92	44380.38	972.14	*	IG
STORE	31172	55205.59	44380.39	972.15	*	IG
STORE	31173	55209.18	44380.45	973.31	*	IG
STORE	31174	55210.11	44380.29	973.27	*	TOP OF LINING
STORE	31175	55213.12	44380.18	971.12	*	TOE OF LINING
STORE	31176	55214.06	44380.23	971.16	*	TOE OF LINING

STORE	31177	55216.85	44380.10	973.36	*	TOP OF LINING
STORE	31178	55218.75	44379.81	973.88	*	IG
STORE	31179	55225.50	44379.88	972.71	*	IG
STORE	31180	55235.69	44379.02	972.97	*	RE
STORE	31181	55255.39	44378.43	973.42	*	RP
STORE	31182	55275.72	44377.80	973.21	*	RE
STORE	31183	55280.60	44377.45	972.65	*	IG
STORE	31184	55292.70	44377.37	973.10	*	IG
STORE	31185	55334.26	44375.52	972.23	*	IG
STORE	31186	55381.39	44373.11	972.31	*	IG
STORE	31187	55390.04	44289.06	974.66	*	FL 9FT. BLOCK
STORE	31188	55355.34	44289.03	974.66	*	FF 9FT. BLOCK
STORE	31189	55346.12	44281.79	974.62	*	FF 9FT. BLOCK
STORE	31190	55346.06	44268.53	974.69	*	FL 9FT. BLOCK
STORE	31191	55343.52	44268.19	974.93	*	IG
STORE	31192	55321.68	44269.56	973.80	*	IG
STORE	31193	55289.34	44268.14	972.98	*	IG
STORE	31194	55283.74	44268.25	972.62	*	IG
STORE	31195	55273.47	44267.73	973.62	*	RE
STORE	31196	55255.24	44266.69	973.82	*	RP
STORE	31197	55237.88	44266.67	973.37	*	RE
STORE	31198	55226.82	44266.73	972.72	*	IG
STORE	31199	55219.73	44266.49	974.04	*	IG
STORE	31200	55218.07	44266.37	973.46	*	TOP OF LINING
STORE	31201	55215.19	44266.24	971.21	*	TOE OF LINING
STORE	31202	55214.39	44266.27	971.21	*	TOE OF LINING
STORE	31203	55211.42	44266.07	973.39	*	TOP OF LINING
STORE	31204	55210.00	44266.01	973.62	*	IG
STORE	31205	55205.18	44265.82	972.92	*	IG
STORE	31206	55195.51	44266.03	972.84	*	IG
STORE	31207	55193.04	44266.57	973.32	*	IG
STORE	31208	55192.53	44266.60	973.37	*	TOP OF LINING
STORE	31209	55189.64	44266.88	971.79	*	TOE OF LINING
STORE	31210	55187.74	44267.25	971.78	*	TOE OF LINING
STORE	31211	55185.55	44267.19	973.16	*	TOP OF LINING
STORE	31212	55184.74	44267.07	973.22	*	IG
STORE	31213	55181.44	44266.91	971.08	*	IG
STORE	31214	55152.00	44265.60	971.14	*	IG
STORE	31215	55224.87	44278.60	973.35	*	FO
STORE	31216	55226.35	44504.43	972.27	*	FO
STORE	31217	55226.23	44586.95	971.91	*	TM
STORE	31218	55293.76	44334.53	973.19	*	FO WARNING SIGN
STORE	31219	55302.49	44155.56	973.39	*	WM
STORE	31220	55345.91	44168.45	976.91	*	FL 7FT. BLOCK
STORE	31221	55337.22	44166.71	976.80	*	IG
STORE	31222	55291.33	44165.04	973.02	*	IG
STORE	31223	55280.26	44164.94	973.27	*	IG
STORE	31224	55271.53	44164.47	973.96	*	RE
STORE	31225	55256.00	44163.52	974.19	*	RP
STORE	31226	55239.98	44163.04	973.93	*	RE
STORE	31227	55231.40	44162.59	973.14	*	IG
STORE	31228	55226.81	44162.89	973.75	*	IG
STORE	31229	55221.21	44163.06	974.34	*	IG
STORE	31230	55219.17	44162.92	973.56	*	TOP OF LINING
STORE	31231	55216.34	44163.34	971.36	*	BOTTOM OF LINING
STORE	31232	55215.23	44163.56	971.48	*	TOE OF LINING
STORE	31233	55212.49	44163.74	973.51	*	TOP OF LINING
STORE	31234	55210.93	44163.58	973.72	*	IG
STORE	31235	55193.65	44163.71	973.41	*	IG
STORE	31236	55192.24	44163.46	973.32	*	TOP OF LINING
STORE	31237	55189.78	44163.66	971.91	*	TOE OF LINING
STORE	31238	55188.60	44163.65	971.82	*	TOE OF LINING
STORE	31239	55185.81	44163.98	973.34	*	TOP OF LINING
STORE	31240	55184.93	44163.83	973.42	*	IG
STORE	31241	55182.96	44164.01	971.52	*	IG
STORE	31242	55131.19	44164.85	971.30	*	IG
STORE	31243	55131.74	44064.14	971.32	*	IG
STORE	31244	55181.33	44064.23	971.50	*	IG
STORE	31245	55185.36	44064.20	973.72	*	IG
STORE	31246	55186.17	44064.29	973.65	*	TOP OF LINING
STORE	31247	55189.00	44064.48	972.00	*	TOE OF LINING

STORE	31248	55191.28	44064.80	972.05	*	TOE OF LINING
STORE	31249	55194.03	44064.88	973.69	*	TOP OF LINING
STORE	31250	55195.42	44064.90	973.70	*	IG
STORE	31251	55211.53	44065.34	974.15	*	IG
STORE	31252	55213.51	44065.24	973.63	*	IG
STORE	31253	55216.41	44064.98	971.48	*	TOE OF LINING
STORE	31254	55217.26	44064.69	971.50	*	TOE OF LINING
STORE	31255	55220.11	44064.68	973.71	*	TOP OF LINING
STORE	31256	55222.22	44064.87	974.38	*	IG
STORE	31257	55230.98	44065.09	973.80	*	IG
STORE	31258	55241.75	44065.17	974.38	*	RE
STORE	31259	55256.15	44064.52	974.67	*	RP
STORE	31260	55270.40	44063.93	974.59	*	RE
STORE	31261	55280.58	44063.53	973.78	*	IG
STORE	31262	55334.23	44061.72	977.19	*	IG
STORE	31263	55346.26	44061.31	977.60	*	FL 6FT. BLOCK
STORE	31264	55306.05	44082.07	974.34	*	WF
STORE	31265	55301.10	44082.63	972.57	*	WV NUT
STORE	31266	55298.18	44077.27	972.28	*	WV NUT
STORE	31267	55224.72	44035.87	975.32	*	TR
STORE	31268	55227.38	44043.43	975.12	*	FO
STORE	31269	55221.14	44025.40	974.95	*	IH
STORE	31270	55218.88	44025.44	974.98	*	IH
STORE	31271	55215.37	44025.16	974.95	*	IH
STORE	31272	55212.24	44024.98	974.90	*	IH
STORE	31273	55212.51	44022.49	974.88	*	IH
STORE	31274	55212.36	44019.07	974.78	*	IH
STORE	31275	55212.25	44016.83	974.88	*	IH
STORE	31276	55208.50	44003.86	974.80	*	IH
STORE	31277	55213.42	44004.39	974.84	*	IH
STORE	31278	55213.19	44001.88	974.86	*	IH
STORE	31279	55208.50	43996.85	974.82	*	IH
STORE	31280	55212.31	43996.70	974.82	*	IH
STORE	31281	55212.25	43994.31	974.52	*	IH
STORE	31282	55214.98	43994.31	974.83	*	IH
STORE	31283	55218.46	43994.29	974.83	*	IH
STORE	31284	55220.81	43994.28	974.74	*	IH
STORE	31285	55220.19	44048.74	973.60	*	TOP OF LINING
STORE	31286	55217.28	44048.62	971.45	*	TOE OF LINING
STORE	31287	55216.35	44048.61	971.47	*	TOE OF LINING
STORE	31288	55213.45	44048.88	973.63	*	TOP OF LINING
STORE	31289	55221.05	44016.76	974.79	*	TOP OF LINING
STORE	31290	55221.37	44005.11	974.98	*	TOP OF LINING
STORE	31291	55223.31	44004.31	974.78	*	TOP OF LINING
STORE	31292	55225.40	44007.75	975.52	*	TOP OF LINING
STORE	31293	55229.57	44007.95	975.25	*	TOP OF LINING
STORE	31294	55233.62	44007.00	975.29	*	TOP OF LINING
STORE	31295	55235.50	44004.27	975.02	*	TOP OF LINING
STORE	31296	55235.54	44000.90	974.95	*	TOP OF LINING
STORE	31297	55234.53	43996.72	975.00	*	TOP OF LINING
STORE	31298	55232.04	43995.14	975.14	*	TOP OF LINING
STORE	31299	55225.40	43995.91	974.99	*	TOP OF LINING
STORE	31300	55220.09	43996.60	974.57	*	TOP OF LINING
STORE	31301	55219.94	43983.64	974.76	*	TOP OF LINING
STORE	31302	55221.12	43954.06	974.25	*	TOP OF LINING
STORE	31303	55219.42	43951.64	974.24	*	TOP OF LINING
STORE	31304	55215.13	43952.26	974.57	*	TOP OF LINING
STORE	31305	55213.27	43959.97	974.22	*	TOP OF LINING
STORE	31306	55201.46	43959.97	974.15	*	TOP OF LINING
STORE	31307	55191.11	43961.34	974.28	*	TOP OF LINING
STORE	31308	55191.10	43964.42	974.30	*	TOP OF LINING
STORE	31309	55199.93	43965.57	974.37	*	TOP OF LINING
STORE	31310	55212.34	43965.75	974.03	*	TOP OF LINING
STORE	31311	55211.87	43983.75	974.43	*	TOP OF LINING
STORE	31312	55205.59	43997.37	973.55	*	TOP OF LINING
STORE	31313	55202.72	43995.04	973.61	*	TOP OF LINING
STORE	31314	55198.16	43995.23	972.07	*	TOP OF LINING
STORE	31315	55185.19	43986.10	971.85	*	TOP OF LINING
STORE	31316	55157.03	43964.48	972.28	*	TOP OF LINING
STORE	31317	55150.75	43961.12	972.20	*	TOP OF LINING
STORE	31318	55142.62	43960.97	972.14	*	TOP OF LINING

STORE	31319	55132.10	43961.33	971.92	*	TOP OF LINING
STORE	31320	55132.77	43965.06	969.41	*	CL 2FT. BOTTOM
STORE	31321	55132.66	43968.81	971.89	*	TOP OF LINING
STORE	31322	55144.20	43969.06	972.02	*	TOP OF LINING
STORE	31323	55149.37	43969.41	972.11	*	TOP OF LINING
STORE	31324	55153.69	43972.34	972.36	*	TOP OF LINING
STORE	31325	55151.81	43965.63	969.71	*	CL 2FT. BOTT.
STORE	31326	55182.35	43988.26	969.68	*	CL 2FT. BOTT.
STORE	31327	55179.99	43991.47	971.89	*	TOP OF LINING
STORE	31328	55201.88	44006.54	972.66	*	TOP OF LINING
STORE	31329	55204.79	44003.59	973.21	*	TOP OF LINING
STORE	31330	55213.16	44010.72	974.90	*	TOP OF LINING
STORE	31331	55208.01	44016.68	974.14	*	TOP OF LINING
STORE	31332	55198.84	44021.12	973.42	*	TOP OF LINING
STORE	31333	55189.87	44029.42	973.78	*	TOP OF LINING
STORE	31334	55180.16	44012.31	973.77	*	TOP OF LINING
STORE	31335	55164.23	43991.35	973.79	*	TOP OF LINING
STORE	31336	55158.46	43990.69	973.98	*	TOP OF LINING
STORE	31337	55158.16	43994.99	974.03	*	TOP OF LINING
STORE	31338	55173.76	44016.37	973.56	*	TOP OF LINING
STORE	31339	55183.70	44043.41	973.72	*	TOP OF LINING
STORE	31340	55189.35	44038.73	972.95	*	TOP OF LINING
STORE	31341	55199.66	44029.04	973.21	*	TOP OF LINING
STORE	31342	55207.98	44025.02	974.29	*	TOP OF LINING
STORE	31343	55186.76	44035.78	971.67	*	CL 2FT. BOTT.
STORE	31344	55161.90	43994.82	972.00	*	CL 2FT. BOTT.
STORE	31345	55172.74	43999.61	972.04	*	FL 18IN. RCP
STORE	31346	55197.58	43964.12	972.33	*	FL 18IN. RCP
STORE	31347	55187.06	43974.31	973.68	*	EV
STORE	31348	55187.20	43968.41	973.60	*	EV
STORE	31349	55185.12	43963.00	974.12	*	WELL
STORE	31350	55217.64	43930.13	970.81	*	FL 18IN. RCP
STORE	31351	55217.24	43953.54	971.15	*	FL 18IN. RCP
STORE	31352	55220.75	43927.41	973.61	*	TOP OF LINING
STORE	31353	55217.96	43931.52	973.59	*	TOP OF LINING
STORE	31354	55214.33	43925.87	973.59	*	TOP OF LINING
STORE	31355	55236.27	43993.37	975.11	*	RG
STORE	31356	55232.26	44001.29	973.56	*	TOP 36IN. RCP
STORE	31357	55280.23	44000.95	973.73	*	TOP 36IN. RCP
STORE	31358	55329.52	44004.57	975.28	*	TOP OF LINING
STORE	31359	55328.53	44000.74	972.71	*	CL 2FT. BOTT.
STORE	31360	55329.11	43997.05	975.19	*	TOP OF LINING
STORE	31361	55291.30	43997.20	975.07	*	TOP OF LINING
STORE	31362	55291.86	44000.65	972.60	*	CL 2FT. BOTT.
STORE	31363	55287.41	43996.61	975.15	*	TOP OF LINING
STORE	31364	55283.61	43994.55	975.18	*	TOP OF LINING
STORE	31365	55277.01	43994.86	975.39	*	TOP OF LINING
STORE	31366	55276.81	44005.88	975.45	*	TOP OF LINING
STORE	31367	55291.49	44005.17	975.28	*	TOP OF LINING
STORE	31368	55277.43	44007.15	975.38	*	RG
STORE	31369	55345.59	44225.52	975.04	*	FC 7FT. BLOCK
STORE	31370	55343.65	44225.46	974.77	*	FC 7FT. BLOCK
STORE	31371	55343.53	44219.58	974.80	*	FC 7FT. BLOCK
STORE	31372	55345.76	44219.79	974.91	*	FC 7FT. BLOCK
STORE	31373	55346.00	44120.15	977.55	*	FC 7FT. BLOCK
STORE	31374	55343.93	44120.34	977.55	*	FC 7FT. BLOCK
STORE	31375	55343.88	44114.67	977.68	*	FC 7FT. BLOCK
STORE	31376	55346.07	44114.70	977.61	*	FC 7FT. BLOCK
STORE	31377	55346.38	44016.15	977.49	*	FC 7FT. BLOCK
STORE	31378	55342.93	44012.79	975.52	*	FC 7FT. BLOCK
STORE	31379	55341.70	44014.25	975.47	*	FC 7FT. BLOCK
STORE	31380	55337.43	44010.33	975.46	*	FC 7FT. BLOCK
STORE	31381	55339.11	44008.77	975.43	*	FC 7FT. BLOCK
STORE	31382	55336.59	44006.15	975.40	*	FC 7FT. BLOCK
STORE	31383	55288.53	43994.64	975.30	*	EP
STORE	31384	55286.89	43994.71	975.47	*	TR
STORE	31385	55336.46	43949.68	974.79	*	FF 6FT. BLOCK
STORE	31386	55337.42	43939.26	974.63	*	IG
STORE	31387	55301.95	43940.17	974.38	*	IG
STORE	31388	55270.39	43941.39	974.61	*	RE
STORE	31389	55255.92	43940.91	974.76	*	RP

STORE	31390	55242.76	43941.14	974.53	*	RE
STORE	31391	55218.28	43942.29	973.52	*	IG
STORE	31392	55189.00	43942.62	972.77	*	IG
STORE	31393	55132.11	43945.20	972.15	*	IG
STORE	31394	55238.83	43924.75	974.29	*	GB
STORE	31395	55239.40	44007.42	974.72	*	GB
STORE	31396	55239.37	44095.48	974.13	*	GB
STORE	31397	55226.63	44081.69	974.04	*	FO
STORE	31398	55227.28	44043.29	975.10	*	FO
STORE	31399	55336.43	43924.94	974.08	*	BEG 5FT BLK WALL
STORE	31400	55214.43	43887.01	973.63	*	TR
STORE	31401	55336.47	43813.97	974.05	*	IG FL6FT BLKWALL
STORE	31402	55296.88	43816.68	974.56	*	IG
STORE	31403	55283.37	43816.70	973.79	*	IG
STORE	31404	55274.59	43816.25	974.10	*	GB
STORE	31405	55270.10	43816.22	974.15	*	RE
STORE	31406	55256.66	43816.86	974.34	*	RC
STORE	31407	55243.82	43816.59	974.15	*	RE
STORE	31408	55239.88	43816.97	973.95	*	GB
STORE	31409	55225.78	43816.81	973.16	*	IG
STORE	31410	55222.27	43817.14	974.08	*	IG
STORE	31411	55221.26	43817.04	973.62	*	TOP CONC
STORE	31412	55215.64	43817.01	973.52	*	TOP CONC
STORE	31413	55217.37	43817.06	971.90	*	IC
STORE	31414	55219.16	43817.45	971.78	*	IC
STORE	31415	55213.05	43816.97	971.64	*	IG
STORE	31416	55146.97	43816.54	971.43	*	IG
STORE	31417	55150.04	43720.07	971.43	*	IG
STORE	31418	55213.44	43722.01	971.60	*	IG
STORE	31419	55215.07	43722.40	973.38	*	IG
STORE	31420	55216.37	43722.46	973.44	*	TOP CONC
STORE	31421	55218.50	43722.70	971.31	*	IC
STORE	31422	55219.49	43722.43	971.34	*	IC
STORE	31423	55221.85	43722.35	973.54	*	TOP CONC
STORE	31424	55223.80	43722.52	974.24	*	IG
STORE	31425	55227.03	43722.85	973.35	*	IG
STORE	31426	55239.80	43722.35	973.75	*	GB
STORE	31427	55242.80	43722.62	974.04	*	RE
STORE	31428	55256.16	43722.71	974.28	*	RC
STORE	31429	55269.73	43723.79	974.18	*	RE
STORE	31430	55274.63	43723.72	973.99	*	GB
STORE	31431	55284.52	43723.76	973.84	*	IG
STORE	31432	55292.38	43723.52	974.41	*	IG
STORE	31433	55325.61	43723.63	974.15	*	IG
STORE	31434	55336.69	43723.91	972.72	*	IG FL
STORE	31435	55294.28	43765.01	974.48	*	TH
STORE	31436	55336.78	43626.82	973.24	*	FL IG
STORE	31437	55327.58	43627.65	974.23	*	IG
STORE	31438	55292.19	43627.15	974.05	*	IG
STORE	31439	55285.77	43626.33	973.58	*	IG
STORE	31440	55275.10	43625.65	974.06	*	GB
STORE	31441	55270.35	43625.95	974.31	*	RE
STORE	31442	55255.98	43626.05	974.27	*	RC
STORE	31443	55242.98	43626.06	974.03	*	RE
STORE	31444	55230.70	43636.49	972.93	*	RG
STORE	31445	55239.46	43626.29	973.75	*	GB
STORE	31446	55227.68	43625.02	973.22	*	IG
STORE	31447	55225.26	43625.33	974.11	*	IG
STORE	31448	55222.30	43625.28	973.54	*	TOP CONC
STORE	31449	55217.12	43625.15	973.48	*	TOP CONC
STORE	31450	55218.90	43625.22	971.63	*	IC
STORE	31451	55220.20	43625.17	971.55	*	IC
STORE	31452	55215.38	43625.83	973.36	*	IG
STORE	31453	55214.45	43625.92	971.99	*	IG
STORE	31454	55154.35	43623.89	971.53	*	IG
STORE	31455	55147.29	43530.30	971.61	*	IG
STORE	31456	55214.78	43528.47	971.89	*	IG
STORE	31457	55216.21	43527.93	973.31	*	IG
STORE	31458	55217.34	43528.14	973.54	*	TOP CONC
STORE	31459	55219.62	43527.77	971.51	*	IC
STORE	31460	55220.93	43527.88	971.65	*	IC

STORE	31461	55222.94	43527.49	973.59	*	TOP CONC
STORE	31462	55224.85	43503.86	974.01	*	TR
STORE	31463	55240.55	43527.82	973.91	*	GB
STORE	31464	55243.58	43527.81	974.21	*	RE
STORE	31465	55256.88	43527.96	974.35	*	RC
STORE	31466	55270.90	43527.87	974.34	*	RE
STORE	31467	55275.22	43527.93	974.05	*	GB
STORE	31468	55285.89	43527.79	973.63	*	IG
STORE	31469	55293.10	43527.79	974.26	*	IG
STORE	31470	55289.00	43563.06	974.11	*	EP
STORE	31471	55329.71	43529.18	973.86	*	IG
STORE	31472	55337.02	43528.64	973.31	*	IG FL
STORE	31473	55336.96	43428.39	973.87	*	IG FL
STORE	31474	55288.70	43429.07	973.92	*	IG
STORE	31475	55286.33	43428.76	973.54	*	IG
STORE	31476	55276.05	43428.71	973.96	*	GB
STORE	31477	55270.80	43428.44	974.19	*	RE
STORE	31478	55256.83	43428.02	974.25	*	RC
STORE	31479	55244.17	43428.16	974.06	*	RE
STORE	31480	55240.30	43428.13	973.70	*	GB
STORE	31481	55227.40	43428.27	973.15	*	IG
STORE	31482	55225.43	43428.34	973.95	*	IG
STORE	31483	55223.67	43428.34	973.53	*	TOP CONC
STORE	31484	55217.99	43428.42	973.51	*	TOP CONC
STORE	31485	55221.44	43428.28	971.57	*	IC
STORE	31486	55220.13	43428.35	971.60	*	IC
STORE	31487	55214.56	43428.18	971.53	*	IG
STORE	31488	55148.28	43429.08	971.51	*	IG
STORE	31489	55143.89	43331.01	971.54	*	IG
STORE	31490	55215.67	43330.31	972.01	*	IG
STORE	31491	55218.59	43331.00	973.37	*	TOP CONC
STORE	31492	55224.05	43330.69	973.42	*	TOP CONC
STORE	31493	55222.21	43330.94	971.55	*	IC
STORE	31494	55220.59	43330.97	971.54	*	IC
STORE	31495	55225.90	43330.96	974.20	*	IG
STORE	31496	55228.79	43330.39	973.13	*	IG
STORE	31497	55240.16	43330.66	973.71	*	GB
STORE	31498	55243.51	43330.33	974.05	*	RE
STORE	31499	55257.26	43330.60	974.26	*	RC
STORE	31500	55270.97	43331.48	974.22	*	RE
STORE	31501	55275.47	43331.21	973.95	*	GB
STORE	31502	55286.60	43330.84	973.49	*	IG
STORE	31503	55288.85	43330.72	973.88	*	IG
STORE	31504	55336.14	43332.42	974.05	*	FL IG
STORE	31505	55336.92	43326.26	973.73	*	FA 6FT HIBLKWALL
STORE	31506	55288.74	43313.04	974.10	*	FO RG
STORE	31507	55344.80	43234.54	973.67	*	IG
STORE	31508	55311.86	43234.01	973.40	*	IG
STORE	31509	55304.30	43233.97	974.33	*	IG
STORE	31510	55285.80	43234.00	973.61	*	IG
STORE	31511	55271.89	43233.89	974.17	*	RE
STORE	31512	55257.31	43233.80	974.41	*	RC
STORE	31513	55244.48	43233.96	974.19	*	RE
STORE	31514	55240.94	43233.69	973.81	*	GB
STORE	31515	55228.34	43233.44	973.10	*	IG
STORE	31516	55226.69	43233.54	973.97	*	IG
STORE	31517	55224.87	43233.36	973.42	*	TOP CONC
STORE	31518	55219.40	43233.29	973.42	*	TOP CONC
STORE	31519	55222.78	43233.33	971.42	*	IC
STORE	31520	55221.34	43233.26	971.48	*	IC
STORE	31521	55218.02	43233.03	973.46	*	IG
STORE	31522	55216.50	43233.51	972.30	*	IG
STORE	31523	55156.20	43234.98	971.92	*	IG
STORE	31524	55289.67	43147.41	973.78	*	EP
STORE	31525	55225.30	43152.45	973.28	*	TOP CONC PC
STORE	31526	55220.00	43152.18	973.42	*	TOP CONC PC
STORE	31527	55216.14	43149.04	973.36	*	TOP CONC PC
STORE	31528	55216.88	43143.43	973.43	*	TOP CONC PC
STORE	31529	55223.33	43144.93	973.40	*	TOP CONC MOC
STORE	31530	55219.33	43150.38	973.41	*	TOP CONC MOC
STORE	31531	55220.68	43148.49	971.27	*	IC MOC

STORE	31532	55221.63	43147.49	971.27	*	IC MOC
STORE	31533	55165.89	43136.44	972.77	*	IG
STORE	31534	55165.95	43139.93	973.04	*	IG
STORE	31535	55166.24	43142.04	973.85	*	IG
STORE	31536	55166.12	43143.64	973.35	*	TOP CONC
STORE	31537	55166.17	43149.16	973.34	*	TOP CONC
STORE	31538	55166.18	43146.91	971.18	*	IC
STORE	31539	55166.05	43145.85	971.30	*	IC
STORE	31540	55166.33	43150.56	973.21	*	IG
STORE	31541	55166.38	43151.26	972.34	*	IG
STORE	31542	55233.89	43135.20	973.18	*	IG
STORE	31543	55240.28	43135.83	973.70	*	GB
STORE	31544	55245.21	43135.56	974.09	*	RE
STORE	31545	55257.63	43135.36	974.39	*	RC
STORE	31546	55271.59	43135.59	974.29	*	RE
STORE	31547	55286.85	43135.80	973.71	*	IG
STORE	31548	55288.00	43135.86	974.11	*	IG
STORE	31549	55307.39	43136.15	974.25	*	IG
STORE	31550	55313.05	43136.04	973.57	*	IG
STORE	31551	55350.78	43135.62	973.51	*	IG
STORE	31552	55307.01	43083.17	974.27	*	WF
STORE	31553	55298.87	43082.57	973.77	*	WV RIM
STORE	31554	55298.73	43082.70	969.57	*	WV NUT
STORE	31555	55295.80	43077.14	973.81	*	WV RIM
STORE	31556	55295.75	43077.08	969.24	*	WV NUT
STORE	31557	55355.29	43037.46	973.60	*	IG
STORE	31558	55311.27	43038.83	973.51	*	IG
STORE	31559	55306.21	43038.91	974.23	*	IG
STORE	31560	55286.54	43038.23	973.52	*	IG
STORE	31561	55271.85	43038.22	974.27	*	RE
STORE	31562	55257.90	43038.12	974.36	*	RC
STORE	31563	55244.98	43038.23	974.04	*	RE
STORE	31564	55219.51	43038.61	972.47	*	IG
STORE	31565	55239.67	43038.33	973.78	*	GB
STORE	31566	55163.56	43038.05	972.39	*	IG
STORE	31567	55224.08	42958.17	973.04	*	TR
STORE	31568	55163.63	42927.49	972.29	*	IG
STORE	31569	55223.82	42927.14	972.84	*	IG
STORE	31570	55245.42	42927.05	974.14	*	RE
STORE	31571	55241.66	42927.83	973.80	*	GB
STORE	31572	55257.56	42927.37	974.40	*	RC
STORE	31573	55272.21	42927.43	974.33	*	RE
STORE	31574	55288.68	42927.53	973.53	*	IG
STORE	31575	55305.56	42927.13	973.97	*	IG
STORE	31576	55312.02	42927.14	973.32	*	IG
STORE	31577	55353.30	42927.17	973.56	*	IG
STORE	31578	55341.38	42826.82	973.26	*	IG
STORE	31579	55310.41	42828.46	973.24	*	IG
STORE	31580	55305.42	42828.58	973.87	*	IG
STORE	31581	55289.60	42828.51	973.96	*	IG
STORE	31582	55286.08	42828.38	973.46	*	IG
STORE	31583	55271.90	42828.22	974.25	*	RE
STORE	31584	55288.34	42788.65	973.73	*	TH
STORE	31585	55258.41	42828.62	974.35	*	RC
STORE	31586	55245.94	42828.54	974.12	*	RE
STORE	31587	55226.49	42849.19	973.50	*	TH
STORE	31588	55222.80	42847.48	973.38	*	TR
STORE	31589	55233.00	42828.22	973.27	*	IG
STORE	31590	55223.31	42828.48	973.94	*	IG
STORE	31591	55240.72	42828.34	973.71	*	GB
STORE	31592	55177.82	42833.41	972.53	*	IG
STORE	31593	55176.14	42729.54	972.04	*	IG
STORE	31594	55224.03	42730.58	972.64	*	IG
STORE	31595	55233.33	42730.23	973.25	*	IG
STORE	31596	55240.22	42730.20	973.65	*	GB
STORE	31597	55244.97	42730.24	974.09	*	RE
STORE	31598	55258.13	42730.06	974.35	*	RC
STORE	31599	55272.13	42729.95	974.26	*	RE
STORE	31600	55287.28	42730.28	973.53	*	IG
STORE	31601	55288.46	42730.11	973.97	*	IG
STORE	31602	55290.69	42733.34	973.74	*	EP

STORE	31603	55305.21	42729.64	973.86	*	IG
STORE	31604	55309.84	42730.14	973.03	*	IG
STORE	31605	55350.08	42730.20	973.15	*	IG
STORE	31606	55287.76	42686.55	973.91	*	TR
STORE	31607	55343.97	42627.92	973.08	*	IG
STORE	31608	55308.74	42629.38	972.98	*	IG
STORE	31609	55303.29	42629.33	973.66	*	IG
STORE	31610	55285.32	42629.58	973.28	*	IG
STORE	31611	55271.43	42630.19	974.20	*	RE
STORE	31612	55258.30	42630.13	974.36	*	RC
STORE	31613	55244.58	42630.04	974.07	*	RE
STORE	31614	55240.51	42630.17	973.77	*	GB
STORE	31615	55212.52	42630.63	972.21	*	IG
STORE	31616	55175.79	42633.10	971.98	*	IG
STORE	31617	55176.83	42532.05	972.42	*	IG
STORE	31618	55227.99	42531.68	972.79	*	IG
STORE	31619	55240.98	42531.99	973.65	*	GB
STORE	31620	55245.22	42531.66	974.03	*	RE
STORE	31621	55258.78	42531.28	974.40	*	RC
STORE	31622	55273.51	42531.35	974.18	*	RE
STORE	31623	55286.28	42530.81	972.85	*	IG
STORE	31624	55307.16	42531.95	973.36	*	IG
STORE	31625	55312.15	42531.90	972.66	*	IG
STORE	31626	55355.15	42529.71	972.85	*	IG
STORE	31627	55350.84	42431.87	972.88	*	IG
STORE	31628	55312.92	42430.43	972.13	*	IG
STORE	31629	55308.21	42430.47	973.57	*	IG
STORE	31630	55285.12	42430.15	973.97	*	IG
STORE	31631	55283.80	42398.09	973.76	*	RG
STORE	31632	55273.72	42430.05	974.13	*	RE
STORE	31633	55258.72	42430.29	974.38	*	RC
STORE	31634	55245.68	42430.40	974.19	*	RE
STORE	31635	55241.00	42430.14	974.26	*	GB
STORE	31636	55231.92	42430.91	974.33	*	IG
STORE	31637	55227.89	42430.89	974.80	*	IG
STORE	31638	55137.25	42329.89	971.01	*	IG
STORE	31639	55197.87	42328.56	971.29	*	IG
STORE	31640	55200.56	42328.45	973.09	*	TOP CONC
STORE	31641	55206.07	42328.21	973.12	*	TOP CONC
STORE	31642	55202.76	42328.10	970.97	*	IC
STORE	31643	55203.79	42328.15	970.96	*	IC
STORE	31644	55207.75	42328.00	973.76	*	IG
STORE	31645	55210.66	42328.19	972.58	*	IG
STORE	31646	55241.24	42326.81	973.68	*	GB
STORE	31647	55246.44	42326.83	974.13	*	RE
STORE	31648	55258.42	42326.94	974.26	*	RC
STORE	31649	55274.80	42327.09	973.88	*	RE
STORE	31650	55291.61	42327.35	973.00	*	IG
STORE	31651	55291.12	42318.39	973.08	*	FO RG
STORE	31652	55308.92	42329.21	973.48	*	IG
STORE	31653	55315.60	42328.99	972.55	*	IG
STORE	31654	55360.13	42328.35	972.90	*	IG
STORE	31655	55308.77	42445.73	973.38	*	IG TOP
STORE	31656	55308.79	42447.02	971.99	*	IG TOE
STORE	31657	55308.66	42450.74	971.90	*	IG TOE
STORE	31658	55308.57	42451.82	973.23	*	IG TOP
STORE	31659	55284.44	42464.24	974.53	*	RG
STORE	31660	55283.81	42452.29	973.74	*	IH
STORE	31661	55283.86	42445.81	973.75	*	IH
STORE	31662	55284.18	42449.30	971.03	*	INV 24INCONCPIPE
STORE	31663	55230.83	42456.23	973.90	*	TR
STORE	31664	55235.61	42450.50	974.12	*	IH
STORE	31665	55235.94	42442.64	974.41	*	IH
STORE	31666	55234.72	42446.89	971.52	*	INV 24INCONCPIPE
STORE	31667	55236.14	42442.02	974.68	*	RG
STORE	31668	55195.75	42438.30	973.15	*	TOP CONC
STORE	31669	55198.57	42433.68	973.29	*	TOP CONC
STORE	31670	55180.04	42453.65	973.04	*	TOP CONC
STORE	31671	55177.00	42449.24	973.25	*	TOP CONC
STORE	31672	55191.80	42432.43	973.15	*	TOP CONC
STORE	31673	55200.30	42402.63	973.00	*	TOP CONC

STORE	31674	55205.89	42402.38	973.25	*	TOP CONC
STORE	31675	55202.48	42401.97	971.04	*	IC
STORE	31676	55203.56	42401.95	971.08	*	IC
STORE	31677	55193.79	42433.75	970.98	*	IC
STORE	31678	55197.32	42435.68	971.15	*	IC
STORE	31679	55196.83	42436.64	971.08	*	IC
STORE	32000	55667.04	44655.43	973.55	*	IH
STORE	32001	55715.96	44661.44	973.97	*	IH
STORE	32002	55715.85	44655.22	973.92	*	IH
STORE	32003	55716.38	44659.12	971.96	*	INV 18INCONCPIPE
STORE	32004	55739.54	44649.98	975.01	*	TR
STORE	32005	55750.11	44728.06	973.23	*	IG
STORE	32006	55749.60	44695.35	973.67	*	IG
STORE	32007	55750.24	44668.15	974.65	*	IG
STORE	32008	55750.09	44665.90	975.71	*	IG
STORE	32009	55750.11	44660.55	972.29	*	IG TOE
STORE	32010	55750.28	44656.51	972.10	*	IG TOE
STORE	32011	55749.91	44650.77	975.27	*	IG
STORE	32012	55750.49	44629.24	974.22	*	RE
STORE	32013	55750.91	44613.86	974.50	*	RC
STORE	32014	55750.94	44594.93	974.12	*	RE
STORE	32015	55751.02	44585.09	973.42	*	IG
STORE	32016	55751.72	44583.73	974.34	*	RG
STORE	32017	55751.19	44573.07	975.55	*	IG
STORE	32018	55751.26	44568.51	972.60	*	IG TOE
STORE	32019	55751.33	44567.27	972.67	*	IG TOE
STORE	32020	55751.07	44562.92	975.58	*	IG
STORE	32021	55751.12	44560.37	974.95	*	IG
STORE	32022	55752.46	44507.06	974.56	*	IG
STORE	32023	55850.28	44504.66	975.12	*	IG
STORE	32024	55849.97	44559.96	975.47	*	IG
STORE	32025	55849.92	44563.02	976.23	*	IG
STORE	32026	55850.33	44567.33	972.85	*	IG TOE
STORE	32027	55850.13	44567.95	972.83	*	IG TOE
STORE	32028	55850.87	44572.77	975.97	*	IG
STORE	32029	55850.46	44576.29	976.31	*	IG
STORE	32030	55850.08	44586.01	974.08	*	IG
STORE	32031	55849.90	44596.82	974.73	*	RE
STORE	32032	55849.28	44615.08	974.81	*	RC
STORE	32033	55849.75	44629.28	974.55	*	RE
STORE	32034	55849.69	44640.99	973.30	*	IG
STORE	32035	55850.31	44650.37	976.04	*	IG
STORE	32036	55850.19	44655.22	972.43	*	IG TOE
STORE	32037	55850.43	44659.67	972.36	*	IG TOE
STORE	32038	55850.38	44665.44	975.92	*	IG
STORE	32039	55850.52	44667.41	974.96	*	IG
STORE	32040	55850.77	44717.98	973.62	*	IG
STORE	32041	55948.42	44721.94	973.89	*	IG
STORE	32042	55948.20	44667.62	975.45	*	IG
STORE	32043	55947.55	44666.36	976.13	*	IG
STORE	32044	55947.97	44661.06	972.46	*	IG TOE
STORE	32045	55948.21	44656.36	972.43	*	IG TOE
STORE	32046	55947.99	44650.05	976.57	*	IG
STORE	32047	55948.13	44639.84	973.75	*	IG
STORE	32048	55947.88	44629.24	974.85	*	RE
STORE	32049	55948.26	44614.33	975.22	*	RC
STORE	32050	55947.66	44597.96	975.06	*	RE
STORE	32051	55947.76	44586.84	974.48	*	IG
STORE	32052	55948.12	44575.69	976.95	*	IG
STORE	32053	55948.56	44568.97	973.31	*	IG TOE
STORE	32054	55948.72	44568.02	973.36	*	IG TOE
STORE	32055	55948.41	44563.62	976.38	*	IG
STORE	32056	55947.94	44560.46	975.77	*	IG
STORE	32057	55948.05	44517.14	975.56	*	IG
STORE	32058	55970.92	44517.63	976.63	*	SM
STORE	32059	56047.49	44512.27	976.15	*	IG
STORE	32060	56047.01	44561.11	975.97	*	IG
STORE	32061	56046.91	44564.01	976.60	*	IG
STORE	32062	56046.47	44568.16	973.68	*	IG TOE
STORE	32063	56046.62	44568.94	973.73	*	IG TOE
STORE	32064	56046.89	44576.33	977.30	*	IG

STORE	32065	56046.08	44589.91	974.78	*	IG
STORE	32066	56045.80	44600.39	975.48	*	RE
STORE	32067	56074.53	44601.14	975.52	*	RE ANG PT
STORE	32068	56045.26	44614.88	975.56	*	RC
STORE	32069	56044.93	44629.18	975.03	*	RE
STORE	32070	56044.75	44640.51	973.98	*	IG
STORE	32071	56044.80	44650.06	976.73	*	IG
STORE	32072	56044.35	44656.07	972.57	*	IG TOE
STORE	32073	56044.71	44661.11	972.78	*	IG TOE
STORE	32074	56044.25	44665.50	976.35	*	IG
STORE	32075	56044.25	44667.38	975.57	*	IG
STORE	32076	56045.59	44722.23	974.15	*	IG
STORE	32077	56145.75	44728.41	974.82	*	IG
STORE	32078	56144.12	44666.36	975.94	*	IG
STORE	32079	56144.27	44662.98	977.21	*	IG
STORE	32080	56144.21	44658.42	972.74	*	IG TOE
STORE	32081	56144.29	44654.68	972.82	*	IG TOE
STORE	32082	56144.12	44649.11	977.21	*	IG
STORE	32083	56144.07	44640.22	974.61	*	IG
STORE	32084	56144.76	44629.27	975.39	*	RE
STORE	32085	56145.55	44615.21	975.90	*	RC
STORE	32086	56145.62	44600.93	975.80	*	RE
STORE	32087	56145.43	44589.34	975.14	*	IG
STORE	32088	56145.44	44575.36	977.81	*	IG
STORE	32089	56145.80	44569.00	974.16	*	IG TOE
STORE	32090	56145.90	44568.07	974.18	*	IG TOE
STORE	32091	56146.12	44563.80	977.22	*	IG
STORE	32092	56145.96	44559.94	976.50	*	IG
STORE	32093	56145.71	44509.40	976.36	*	IG
STORE	32094	56174.00	44652.55	975.05	*	IH
STORE	32095	56174.13	44658.71	975.10	*	IH
STORE	32096	56173.93	44655.36	973.47	*	INV 18INCONCPIPE
STORE	32097	56172.87	44653.90	971.94	*	IG TOE END
STORE	32098	56172.22	44658.01	972.24	*	IG TOE END
STORE	32099	56192.16	44655.42	973.73	*	INV 18INCONCPIPE
STORE	32100	56205.10	44645.17	975.73	*	RG
STORE	32101	56248.77	44721.65	974.96	*	IG
STORE	32102	56244.61	44645.88	976.08	*	IG
STORE	32103	56245.21	44639.54	974.96	*	IG
STORE	32104	56245.15	44629.63	975.58	*	RE
STORE	32105	56245.56	44615.11	976.22	*	RC
STORE	32106	56245.53	44601.16	976.14	*	RE
STORE	32107	56245.63	44589.92	975.60	*	IG
STORE	32108	56245.01	44573.50	977.76	*	IG
STORE	32109	56245.32	44569.08	974.53	*	IG.TOE
STORE	32110	56245.38	44568.12	974.51	*	IG TOE
STORE	32111	56245.36	44563.57	977.49	*	IG
STORE	32112	56246.09	44560.18	976.86	*	IG
STORE	32113	56245.40	44507.33	977.06	*	IG
STORE	32114	56351.27	44499.76	977.54	*	IG
STORE	32115	56351.36	44562.45	977.41	*	IG
STORE	32116	56351.42	44564.99	978.22	*	IG
STORE	32117	56351.16	44569.68	974.94	*	IG TOE
STORE	32118	56351.22	44570.38	975.04	*	IG TOE
STORE	32119	56351.08	44575.15	978.06	*	IG
STORE	32120	56350.81	44589.44	975.90	*	IG
STORE	32121	56351.03	44601.08	976.52	*	RE
STORE	32122	56350.44	44614.91	976.55	*	RC
STORE	32123	56350.89	44628.83	976.06	*	RE
STORE	32124	56350.23	44647.44	976.21	*	IG
STORE	32125	56350.11	44709.60	975.26	*	IG
STORE	32126	56451.11	44507.55	978.07	*	IG
STORE	32127	56451.58	44559.19	977.75	*	IG
STORE	32128	56451.48	44563.47	978.57	*	IG
STORE	32129	56451.57	44567.56	975.45	*	IG TOE
STORE	32130	56451.36	44568.87	975.57	*	IG TOE
STORE	32131	56451.71	44575.27	978.77	*	IG
STORE	32132	56498.06	44576.49	979.03	*	IG ANG PT
STORE	32133	56498.05	44569.89	975.62	*	IG TOE ANG PT
STORE	32134	56497.94	44568.86	975.57	*	IG TOE ANG PT
STORE	32135	56497.69	44564.47	978.67	*	IG ANG PT

STORE	32136	56452.22	44589.84	976.13	*	IG
STORE	32137	56451.74	44601.42	976.79	*	RE
STORE	32138	56451.62	44615.09	976.82	*	RC
STORE	32139	56451.70	44629.69	976.36	*	RE
STORE	32140	56452.04	44639.88	975.50	*	IG
STORE	32141	56451.63	44647.48	976.44	*	IG
STORE	32142	56454.03	44717.53	975.89	*	IG
STORE	32143	56548.54	44717.72	976.29	*	IG
STORE	32144	56551.37	44647.36	976.81	*	IG
STORE	32145	56551.42	44639.90	975.77	*	IG
STORE	32146	56551.07	44629.40	976.72	*	RE
STORE	32147	56551.36	44615.38	977.23	*	RC
STORE	32148	56551.71	44601.33	977.08	*	RE
STORE	32149	56551.63	44591.04	976.54	*	IG
STORE	32150	56550.73	44581.21	978.75	*	IG
STORE	32151	56550.22	44576.36	975.84	*	IG TOE
STORE	32152	56550.37	44575.08	975.90	*	IG TOE
STORE	32153	56550.80	44571.13	978.18	*	IG
STORE	32154	56550.34	44515.94	977.41	*	IG
STORE	32155	56572.33	44572.14	978.47	*	IG
STORE	32156	56572.40	44580.71	978.48	*	IG
STORE	32157	56572.43	44575.68	975.85	*	INV 18INCONCPIPE
STORE	32158	56586.18	44575.22	975.94	*	INV 18INCONCPIPE
STORE	32159	56586.20	44571.53	978.29	*	IG
STORE	32160	56586.07	44580.39	978.56	*	IG
STORE	32161	56587.65	44586.36	978.13	*	IG
STORE	32162	56587.88	44592.58	977.22	*	IG
STORE	32163	56588.21	44589.61	976.51	*	INV 12IN CMP
STORE	32164	56568.22	44589.70	976.43	*	INV 12IN CMP
STORE	32165	56568.60	44585.48	978.50	*	IG
STORE	32166	56568.52	44593.30	977.43	*	IG
STORE	32167	56654.39	44505.87	977.75	*	IG
STORE	32168	56651.94	44572.71	978.18	*	IG
STORE	32169	56651.58	44575.91	976.70	*	IG TOE
STORE	32170	56651.61	44577.50	976.54	*	IG TOE
STORE	32171	56652.21	44581.43	979.16	*	IG
STORE	32172	56652.20	44590.77	977.00	*	IG
STORE	32173	56651.84	44601.26	977.43	*	RE
STORE	32174	56651.56	44615.89	977.54	*	RC
STORE	32175	56651.71	44629.48	977.13	*	RE
STORE	32176	56651.55	44639.90	976.21	*	IG
STORE	32177	56651.55	44647.70	977.09	*	IG
STORE	32178	56649.63	44716.79	976.71	*	IG
STORE	32179	56751.88	44716.80	977.14	*	IG
STORE	32180	56751.39	44647.61	977.53	*	IG
STORE	32181	56751.63	44640.41	976.45	*	IG
STORE	32182	56751.37	44629.37	977.51	*	RE
STORE	32183	56751.68	44615.71	977.85	*	RC
STORE	32184	56751.52	44601.22	977.77	*	RE
STORE	32185	56751.66	44590.46	977.12	*	IG
STORE	32186	56751.36	44582.03	979.39	*	IG
STORE	32187	56751.81	44577.99	976.80	*	IG TOE
STORE	32188	56751.96	44576.98	976.81	*	IG TOE
STORE	32189	56751.58	44573.24	978.65	*	IG
STORE	32190	56752.75	44502.56	978.33	*	IG
STORE	32191	56857.34	44502.50	978.74	*	IG
STORE	32192	56851.39	44573.68	978.94	*	IG
STORE	32193	56851.00	44576.78	977.15	*	IG TOE
STORE	32194	56850.84	44577.81	977.07	*	IG TOE
STORE	32195	56850.78	44581.85	979.85	*	IG
STORE	32196	56851.01	44590.38	977.47	*	IG
STORE	32197	56851.33	44601.37	978.12	*	RE
STORE	32198	56851.31	44615.80	978.27	*	RC
STORE	32199	56851.19	44629.42	977.92	*	RE
STORE	32200	56851.31	44640.77	976.90	*	IG
STORE	32201	56851.00	44647.71	978.09	*	IG
STORE	32202	56851.96	44720.14	977.82	*	IG
STORE	32203	56950.92	44720.17	978.23	*	IG
STORE	32204	56950.98	44647.27	978.05	*	IG
STORE	32205	56951.22	44629.60	978.34	*	RE
STORE	32206	56952.04	44615.62	978.70	*	RC

STORE	32207	56951.44	44601.43	978.63	*	RE	
STORE	32208	56951.55	44590.34	977.67	*	IG	
STORE	32209	56951.68	44581.36	980.03	*	IG	
STORE	32210	56951.81	44577.66	977.60	*	IG	TOE
STORE	32211	56951.93	44576.22	977.45	*	IG	TOE
STORE	32212	56951.52	44572.24	979.57	*	IG	
STORE	32213	56951.74	44502.54	979.10	*	IG	
STORE	32214	57049.72	44502.38	979.46	*	IG	
STORE	32215	57052.37	44572.78	979.64	*	IG	
STORE	32216	57052.29	44575.97	977.78	*	IG	TOE
STORE	32217	57052.06	44577.22	977.80	*	IG	TOE
STORE	32218	57052.61	44581.18	980.42	*	IG	
STORE	32219	57052.74	44590.78	978.05	*	IG	
STORE	32220	57052.34	44601.30	979.01	*	RE	
STORE	32221	57052.07	44616.19	979.13	*	RC	
STORE	32222	57051.95	44629.45	978.70	*	RE	
STORE	32223	57051.65	44641.35	977.41	*	IG	
STORE	32224	57051.98	44646.58	978.16	*	IG	
STORE	32225	57051.12	44720.53	978.43	*	IG	
STORE	32226	57152.58	44720.64	978.94	*	IG	
STORE	32227	57152.30	44646.91	978.61	*	IG	
STORE	32228	57152.35	44641.35	977.76	*	IG	
STORE	32229	57152.13	44629.68	979.07	*	RE	
STORE	32230	57152.22	44616.12	979.52	*	RC	
STORE	32231	57152.17	44601.48	979.35	*	RE	
STORE	32232	57152.12	44590.61	978.42	*	IG	
STORE	32233	57151.92	44580.90	980.76	*	IG	
STORE	32234	57152.13	44576.53	978.05	*	IG	TOE
STORE	32235	57152.11	44575.47	978.06	*	IG	TOE
STORE	32236	57152.91	44571.83	980.15	*	IG	
STORE	32237	57153.71	44501.93	979.71	*	IG	
STORE	32238	57250.45	44501.95	979.99	*	IG	
STORE	32239	57252.29	44572.29	980.43	*	IG	
STORE	32240	57251.86	44575.89	978.35	*	IG	TOE
STORE	32241	57251.84	44577.20	978.35	*	IG	TOE
STORE	32242	57252.22	44581.34	981.04	*	IG	
STORE	32243	57252.09	44590.42	978.77	*	IG	
STORE	32244	57251.94	44601.53	979.79	*	RE	
STORE	32245	57251.76	44616.26	980.00	*	RC	
STORE	32246	57251.95	44629.76	979.47	*	RE	
STORE	32247	57252.37	44641.24	978.16	*	IG	
STORE	32248	57252.34	44647.39	978.99	*	IG	
STORE	32249	57252.64	44718.21	979.06	*	IG	
STORE	32250	57348.84	44717.13	979.46	*	IG	
STORE	32251	57352.63	44648.69	979.56	*	IG	
STORE	32252	57352.85	44641.93	978.63	*	IG	
STORE	32253	57352.84	44629.91	979.94	*	RE	
STORE	32254	57353.21	44615.88	980.50	*	RC	
STORE	32255	57353.16	44601.72	980.21	*	RE	
STORE	32256	57353.59	44591.26	979.16	*	IG	
STORE	32257	57353.12	44580.41	981.52	*	IG	
STORE	32258	57352.84	44576.40	978.72	*	IG	TOE
STORE	32259	57352.85	44575.15	978.56	*	IG	TOE
STORE	32260	57352.81	44570.82	981.09	*	IG	
STORE	32261	57351.81	44506.26	980.18	*	IG	
STORE	32262	57452.07	44507.31	980.44	*	IG	
STORE	32263	57452.32	44570.76	981.46	*	IG	
STORE	32264	57452.50	44574.90	978.96	*	IG	TOE
STORE	32265	57452.38	44576.00	979.02	*	IG	TOE
STORE	32266	57452.35	44580.05	981.97	*	IG	
STORE	32267	57453.25	44589.78	979.66	*	IG	
STORE	32268	57453.08	44601.88	980.54	*	RE	
STORE	32269	57452.17	44616.40	980.89	*	RC	
STORE	32270	57452.73	44630.19	980.36	*	RE	
STORE	32271	57452.55	44642.71	978.95	*	IG	
STORE	32272	57452.82	44648.92	979.98	*	IG	
STORE	32273	57452.14	44717.29	979.91	*	IG	
STORE	32274	57548.77	44717.98	980.29	*	IG	
STORE	32275	57550.10	44648.78	980.28	*	IG	
STORE	32276	57550.36	44630.31	980.81	*	RE	
STORE	32277	57550.72	44616.12	981.31	*	RC	

STORE	32278	57550.93	44602.07	981.07	*	RE
STORE	32279	57551.10	44590.02	980.09	*	IG
STORE	32280	57551.38	44580.22	982.13	*	IG
STORE	32281	57551.73	44575.92	979.39	*	IG TOE
STORE	32282	57551.67	44574.72	979.43	*	IG TOE
STORE	32283	57551.52	44570.79	981.65	*	IG
STORE	32284	57553.51	44505.47	980.87	*	IG
STORE	32285	55362.66	44816.29	971.55	*	IG
STORE	32286	55304.62	44817.08	971.82	*	IG
STORE	32287	55288.44	44816.37	972.13	*	IG
STORE	32288	55283.75	44816.29	971.14	*	IG
STORE	32289	55275.26	44816.02	971.99	*	RE
STORE	32290	55292.78	44737.86	972.61	*	TH
STORE	32291	55221.73	44777.21	971.78	*	RG
STORE	32292	55256.00	44815.98	972.10	*	RC
STORE	32293	55235.10	44815.86	971.89	*	RE
STORE	32294	55223.51	44815.69	970.78	*	IG
STORE	32295	55222.64	44815.75	971.67	*	IG
STORE	32296	55218.32	44815.30	972.25	*	IG
STORE	32297	55215.35	44815.42	971.65	*	TOP CONC
STORE	32298	55209.66	44815.20	971.72	*	TOP CONC
STORE	32299	55213.24	44815.44	969.65	*	IC
STORE	32300	55212.07	44815.41	969.60	*	IC
STORE	32301	55206.44	44815.50	970.90	*	IG
STORE	32302	55147.67	44811.04	970.12	*	IG
STORE	32303	55123.45	44906.19	970.07	*	IG
STORE	32304	55206.20	44909.61	970.72	*	IG
STORE	32305	55209.84	44909.60	971.68	*	TOP CONC
STORE	32306	55215.22	44909.77	971.60	*	TOP CONC
STORE	32307	55213.11	44909.63	969.54	*	IC
STORE	32308	55212.03	44909.44	969.49	*	IC
STORE	32309	55217.20	44909.25	972.35	*	IG
STORE	32310	55223.11	44909.59	971.59	*	IG
STORE	32311	55224.72	44909.67	970.76	*	IG
STORE	32312	55236.25	44909.49	971.43	*	RE
STORE	32313	55255.38	44909.19	971.86	*	RC
STORE	32314	55273.46	44909.61	971.70	*	RE
STORE	32315	55284.21	44909.09	970.97	*	IG
STORE	32316	55287.42	44909.13	972.17	*	IG
STORE	32317	55297.77	44908.80	972.62	*	IG
STORE	32318	55303.64	44908.53	971.84	*	IG
STORE	32319	55361.10	44913.72	971.79	*	IG
STORE	32320	55287.94	44964.65	972.68	*	EP
STORE	32321	55359.97	45005.46	971.51	*	IG
STORE	32322	55300.86	45005.58	971.64	*	IG
STORE	32323	55296.43	45005.19	971.87	*	IG
STORE	32324	55285.48	45004.98	971.46	*	IG
STORE	32325	55280.38	45004.69	970.68	*	IG
STORE	32326	55271.83	45004.46	971.57	*	RE
STORE	32327	55254.77	45004.03	971.83	*	RC
STORE	32328	55238.22	45003.74	971.49	*	RE
STORE	32329	55225.96	45003.81	970.50	*	IG
STORE	32330	55224.34	45003.83	971.43	*	IG
STORE	32331	55223.15	45009.79	971.38	*	RG
STORE	32332	55218.30	45003.47	972.20	*	IG
STORE	32333	55215.19	45003.64	971.67	*	TOP CONC
STORE	32334	55209.77	45003.58	971.63	*	TOP CONC
STORE	32335	55213.00	45003.72	969.48	*	IC
STORE	32336	55211.96	45003.64	969.52	*	IC
STORE	32337	55207.42	45003.80	970.55	*	IG
STORE	32338	55142.92	44999.97	970.00	*	IG
STORE	32339	55128.33	45102.59	969.63	*	IG
STORE	32340	55206.38	45098.69	970.46	*	IG
STORE	32341	55209.73	45098.56	971.50	*	TOP CONC
STORE	32342	55215.21	45098.45	971.53	*	TOP CONC
STORE	32343	55212.97	45098.75	969.38	*	IC
STORE	32344	55212.04	45098.61	969.39	*	IC
STORE	32345	55219.05	45098.44	972.29	*	IG
STORE	32346	55226.83	45098.56	970.17	*	IG
STORE	32347	55239.57	45098.51	971.38	*	RE
STORE	32348	55255.39	45098.74	971.65	*	RC

STORE	32349	55269.44	45099.16	971.43	*	RE
STORE	32350	55268.62	45148.05	971.29	*	RE ANG PT
STORE	32351	55240.96	45147.48	971.25	*	RE ANG PT
STORE	32352	55280.44	45100.04	970.78	*	IG
STORE	32353	55284.23	45100.58	971.65	*	IG
STORE	32354	55299.77	45100.93	971.50	*	IG
STORE	32355	55362.38	45103.55	971.70	*	IG
STORE	32356	55362.43	45201.28	971.52	*	IG
STORE	32357	55301.04	45197.35	971.41	*	IG
STORE	32358	55295.92	45197.65	971.68	*	IG
STORE	32359	55283.97	45198.21	971.44	*	IG
STORE	32360	55280.41	45198.53	970.87	*	IG
STORE	32361	55268.40	45198.67	971.25	*	RE
STORE	32362	55255.40	45198.02	971.37	*	RC
STORE	32363	55241.43	45197.95	971.20	*	RE
STORE	32364	55227.54	45197.43	970.42	*	IG
STORE	32365	55225.11	45197.30	971.34	*	IG
STORE	32366	55219.01	45197.22	972.00	*	IG
STORE	32367	55215.15	45197.86	971.51	*	TOP CONC
STORE	32368	55209.68	45198.30	971.51	*	TOP CONC
STORE	32369	55211.87	45198.31	969.39	*	IC
STORE	32370	55212.89	45198.53	969.36	*	IC
STORE	32371	55207.25	45198.91	970.32	*	IG
STORE	32372	55147.28	45198.09	969.84	*	IG
STORE	32373	55144.10	45293.29	969.98	*	IG
STORE	32374	55194.27	45295.51	969.89	*	IG
STORE	32375	55197.53	45295.42	971.17	*	WV RIM
STORE	32376	55197.52	45295.48	965.52	*	WV NUT
STORE	32377	55197.11	45291.17	970.72	*	WV RIM
STORE	32378	55197.12	45291.13	966.58	*	WV NUT
STORE	32379	55200.40	45291.48	971.51	*	WV RIM
STORE	32380	55200.41	45291.39	966.72	*	WV NUT
STORE	32381	55207.94	45308.07	970.72	*	WF
STORE	32382	55209.53	45295.50	971.39	*	TOP CONC
STORE	32383	55215.06	45296.36	971.41	*	TOP CONC
STORE	32384	55211.92	45296.52	969.25	*	IC
STORE	32385	55212.85	45296.61	969.25	*	IC
STORE	32386	55219.44	45297.01	972.03	*	IG
STORE	32387	55224.53	45297.50	971.38	*	IG
STORE	32388	55226.90	45297.47	970.46	*	IG
STORE	32389	55241.42	45296.91	971.22	*	RE
STORE	32390	55255.12	45296.56	971.38	*	RC
STORE	32391	55268.16	45296.56	971.25	*	RE
STORE	32392	55280.16	45298.12	970.94	*	IG
STORE	32393	55284.33	45298.95	971.63	*	IG
STORE	32394	55299.39	45298.87	971.73	*	IG
STORE	32395	55301.01	45298.91	971.33	*	IG
STORE	32396	55357.63	45300.31	971.62	*	IG
STORE	32397	55290.62	45375.68	971.64	*	TH
STORE	32398	55287.42	45433.54	972.02	*	EP
STORE	32399	55356.30	45397.36	971.75	*	IG
STORE	32400	55303.17	45396.91	971.27	*	IG
STORE	32401	55299.51	45397.13	971.71	*	IG
STORE	32402	55287.48	45397.02	971.56	*	IG
STORE	32403	55282.35	45396.56	970.53	*	IG
STORE	32404	55267.87	45395.86	971.41	*	RE
STORE	32405	55254.89	45395.45	971.47	*	RC
STORE	32406	55241.24	45395.50	971.30	*	RE
STORE	32407	55226.56	45394.85	970.53	*	IG
STORE	32408	55217.97	45394.02	971.96	*	IG
STORE	32409	55214.79	45394.41	971.39	*	TOP CONC
STORE	32410	55209.37	45395.48	971.49	*	TOP CONC
STORE	32411	55212.49	45395.97	969.27	*	IC
STORE	32412	55211.55	45396.02	969.29	*	IC
STORE	32413	55206.34	45396.29	970.61	*	IG
STORE	32414	55153.48	45393.57	969.90	*	IG
STORE	32415	55281.38	45595.81	971.96	*	TH
STORE	32416	55294.40	45576.62	971.85	*	TR
STORE	32417	55286.23	45559.94	971.59	*	RG
STORE	32418	55367.36	45491.55	971.61	*	IG
STORE	32419	55302.64	45493.06	971.22	*	IG

STORE	32420	55287.16	45493.61	971.47	*	IG
STORE	32421	55282.24	45494.03	970.62	*	IG
STORE	32422	55268.07	45493.89	971.63	*	RE
STORE	32423	55255.08	45493.61	971.72	*	RC
STORE	32424	55240.83	45493.93	971.49	*	RE
STORE	32425	55224.35	45493.75	970.29	*	IG
STORE	32426	55218.07	45493.85	971.81	*	IG
STORE	32427	55214.60	45493.82	971.42	*	TOP CONC
STORE	32428	55209.08	45493.62	971.48	*	TOP CONC
STORE	32429	55212.25	45493.62	969.28	*	IC
STORE	32430	55211.44	45493.53	969.30	*	IC
STORE	32431	55206.53	45493.59	970.46	*	IG
STORE	32432	55142.70	45495.40	969.89	*	IG
STORE	32433	55144.87	45595.93	969.77	*	IG
STORE	32434	55207.04	45593.93	970.66	*	IG
STORE	32435	55209.11	45593.22	971.56	*	TOP CONC
STORE	32436	55214.53	45592.98	971.44	*	TOP CONC
STORE	32437	55212.15	45592.76	969.36	*	IC
STORE	32438	55211.39	45592.98	969.37	*	IC
STORE	32439	55216.67	45592.60	971.76	*	IG
STORE	32440	55221.85	45592.68	971.55	*	IG
STORE	32441	55223.55	45592.72	970.18	*	IG
STORE	32442	55240.61	45592.80	971.60	*	RE
STORE	32443	55255.27	45593.12	972.05	*	RC
STORE	32444	55267.90	45592.86	971.99	*	RE
STORE	32445	55287.96	45593.28	970.69	*	IG
STORE	32446	55291.65	45593.10	971.55	*	IG
STORE	32447	55301.45	45593.32	971.37	*	IG
STORE	32448	55357.47	45593.17	971.42	*	IG
STORE	32449	55358.38	45696.32	971.39	*	IG
STORE	32450	55298.32	45697.51	970.97	*	IG
STORE	32451	55285.54	45697.93	971.20	*	IG
STORE	32452	55281.65	45697.88	970.93	*	IG
STORE	32453	55280.53	45734.96	971.17	*	RG
STORE	32454	55268.44	45698.38	972.03	*	RE
STORE	32455	55254.33	45698.26	972.08	*	RC
STORE	32456	55241.13	45698.74	971.72	*	RE
STORE	32457	55214.65	45699.65	971.48	*	TOP CONC
STORE	32458	55208.69	45700.89	971.56	*	TOP CONC
STORE	32459	55207.23	45699.60	971.64	*	TOP CONC
STORE	32460	55207.25	45693.55	971.62	*	TOP CONC
STORE	32461	55208.76	45692.51	971.37	*	TOP CONC
STORE	32462	55214.26	45692.03	971.35	*	TOP CONC
STORE	32463	55212.19	45692.27	969.39	*	IC
STORE	32464	55211.09	45692.40	969.23	*	IC
STORE	32465	55207.11	45695.92	969.09	*	IC
STORE	32466	55207.16	45697.27	969.16	*	IC
STORE	32467	55210.65	45700.60	969.39	*	IC
STORE	32468	55212.11	45700.57	969.34	*	IC
STORE	32469	55139.25	45707.16	970.16	*	IG
STORE	32470	55138.87	45700.90	970.74	*	TOP CONC
STORE	32471	55138.40	45695.58	970.82	*	TOP CONC
STORE	32472	55138.53	45692.46	970.12	*	IG
STORE	32473	55137.99	45697.70	968.90	*	IC
STORE	32474	55137.96	45698.76	968.93	*	IC
STORE	32475	55356.45	45799.06	971.12	*	IG
STORE	32476	55296.60	45798.48	970.81	*	IG
STORE	32477	55283.02	45799.26	970.91	*	IG
STORE	32478	55268.16	45799.29	971.72	*	RE
STORE	32479	55254.64	45798.99	971.86	*	RC
STORE	32480	55240.78	45798.97	971.46	*	RE
STORE	32481	55222.67	45798.63	970.16	*	IG
STORE	32482	55221.32	45798.49	971.06	*	IG
STORE	32483	55214.10	45798.62	971.32	*	TOP CONC
STORE	32484	55208.56	45798.66	971.38	*	TOP CONC
STORE	32485	55210.52	45798.68	969.47	*	IC
STORE	32486	55211.61	45798.98	969.34	*	IC
STORE	32487	55203.91	45798.92	970.64	*	IG
STORE	32488	55198.65	45790.01	970.62	*	PT
STORE	32489	55141.01	45802.69	970.28	*	IG
STORE	32490	55208.92	45888.03	971.06	*	TOP CONC END

STORE	32491	55210.93	45888.22	969.01	*	IC END
STORE	32492	55212.30	45888.22	968.98	*	IC END
STORE	32493	55213.96	45888.14	971.14	*	TOP CONC END
STORE	32494	55184.27	45885.41	970.74	*	PT
STORE	32495	55188.64	45911.42	970.36	*	PT
STORE	32496	55166.23	45928.64	970.18	*	PT
STORE	32497	55166.69	45940.82	970.02	*	PT
STORE	32498	55125.87	45904.88	970.09	*	IG
STORE	32499	55225.48	45900.89	970.66	*	IG
STORE	32500	55240.53	45899.49	971.15	*	RE
STORE	32501	55254.21	45899.43	971.60	*	RC
STORE	32502	55268.21	45899.37	971.52	*	RE
STORE	32503	55284.58	45899.52	970.68	*	IG
STORE	32504	55286.91	45899.73	970.96	*	IG
STORE	32505	55286.95	45889.64	971.44	*	EP
STORE	32506	55298.27	45899.19	970.52	*	IG
STORE	32507	55353.40	45900.68	971.28	*	IG
STORE	32508	55357.38	45998.15	970.93	*	IG
STORE	32509	55297.32	46001.34	970.06	*	IG
STORE	32510	55268.37	45999.63	971.16	*	RE
STORE	32511	55254.39	45999.97	971.24	*	RC
STORE	32512	55241.24	46000.15	970.88	*	RE
STORE	32513	55227.53	46000.05	970.29	*	IG
STORE	32514	55219.94	46000.21	970.68	*	IG
STORE	32515	55226.50	46018.24	971.06	*	GL RG
STORE	32516	55225.09	46039.60	970.78	*	GL RG
STORE	32517	55150.69	46010.11	969.55	*	IG
STORE	32518	55197.85	45985.95	971.01	*	WV RIM
STORE	32519	55197.89	45985.90	966.68	*	WV NUT
STORE	32520	55199.60	45980.10	969.81	*	WF
STORE	32521	55193.86	45962.83	970.63	*	WV RIM
STORE	32522	55193.79	45962.84	965.36	*	WV NUT
STORE	32523	55193.62	45959.75	970.68	*	WV RIM
STORE	32524	55193.66	45959.77	966.50	*	WV NUT
STORE	32525	55197.01	45959.51	970.71	*	WV RIM
STORE	32526	55196.97	45959.42	966.35	*	WV NUT
STORE	32527	55218.67	45862.69	971.36	*	GL RG
STORE	32528	55115.47	46102.48	969.17	*	IG
STORE	32529	55202.33	46102.92	969.71	*	IG
STORE	32530	55201.47	46143.61	969.29	*	FO RG
STORE	32531	55212.44	46107.90	970.11	*	BEG TOP CONC
STORE	32532	55218.99	46107.91	969.95	*	BEG TOP CONC
STORE	32533	55215.54	46107.95	968.84	*	C/L IRRI DITCH
STORE	32534	55222.21	46101.37	970.30	*	IG
STORE	32535	55225.71	46101.65	970.33	*	IG
STORE	32536	55227.33	46101.79	969.86	*	IG
STORE	32537	55242.00	46101.63	970.75	*	RE
STORE	32538	55254.44	46101.84	971.10	*	RC
STORE	32539	55268.42	46102.14	970.95	*	RE
STORE	32540	55294.82	46102.11	969.90	*	IG
STORE	32541	55355.91	46099.91	970.66	*	IG
STORE	32542	55355.60	46194.70	970.27	*	IG
STORE	32543	55291.70	46197.68	969.74	*	IG
STORE	32544	55268.45	46199.03	970.72	*	RE
STORE	32545	55254.51	46199.25	970.91	*	RC
STORE	32546	55242.56	46199.32	970.62	*	RE
STORE	32547	55224.94	46199.02	969.44	*	IG
STORE	32548	55220.34	46199.39	970.05	*	IG
STORE	32549	55217.70	46199.33	970.06	*	TOP CONC
STORE	32550	55212.31	46198.97	970.02	*	TOP CONC
STORE	32551	55215.83	46199.39	968.85	*	IC
STORE	32552	55214.22	46199.27	968.92	*	IC
STORE	32553	55209.60	46199.52	969.20	*	IG
STORE	32554	55142.76	46196.01	968.29	*	IG
STORE	32555	55144.67	46298.24	967.68	*	IG
STORE	32556	55186.49	46347.04	968.57	*	TH
STORE	32557	55209.12	46298.75	968.66	*	IG
STORE	32558	55212.87	46298.77	970.01	*	TOP CONC
STORE	32559	55217.84	46299.02	969.84	*	TOP CONC
STORE	32560	55214.54	46299.05	968.85	*	IC
STORE	32561	55216.33	46299.04	968.88	*	IC

STORE	32562	55216.31	46299.14	970.77	*	IG
STORE	32563	55241.61	46299.07	970.52	*	RE
STORE	32564	55254.03	46299.82	970.81	*	RC
STORE	32565	55268.18	46299.47	970.65	*	RE
STORE	32566	55282.94	46300.53	969.67	*	IG
STORE	32567	55295.53	46299.51	969.30	*	IG
STORE	32568	55355.78	46299.49	970.02	*	IG
STORE	32569	55355.43	46398.75	969.66	*	IG
STORE	32570	55295.81	46398.01	968.72	*	IG
STORE	32571	55286.29	46390.63	970.00	*	EP
STORE	32572	55268.27	46396.90	970.47	*	RE
STORE	32573	55254.26	46396.41	970.71	*	RC
STORE	32574	55241.51	46395.93	970.42	*	RE
STORE	32575	55225.16	46396.50	969.66	*	IG
STORE	32576	55223.64	46396.29	970.36	*	IG
STORE	32577	55220.75	46396.53	970.59	*	IG
STORE	32578	55217.74	46396.39	969.86	*	TOP CONC
STORE	32579	55212.45	46396.14	969.76	*	TOP CONC
STORE	32580	55214.38	46396.30	968.69	*	IC
STORE	32581	55215.98	46396.34	968.71	*	IC
STORE	32582	55209.25	46396.76	968.98	*	IG
STORE	32583	55149.74	46394.26	968.33	*	IG
STORE	32584	55143.83	46493.17	967.81	*	IG
STORE	32585	55209.42	46494.21	968.62	*	IG
STORE	32586	55212.35	46494.02	969.94	*	TOP CONC
STORE	32587	55217.55	46493.89	969.79	*	TOP CONC
STORE	32588	55214.33	46493.98	968.61	*	IC
STORE	32589	55215.71	46494.24	968.59	*	IC
STORE	32590	55221.24	46494.26	970.45	*	IG
STORE	32591	55224.14	46494.33	969.56	*	IG
STORE	32592	55241.36	46494.25	970.29	*	RE
STORE	32593	55254.43	46494.23	970.63	*	RC
STORE	32594	55268.37	46494.69	970.32	*	RE
STORE	32595	55280.00	46495.34	969.70	*	IG
STORE	32596	55285.68	46495.40	968.97	*	IG
STORE	32597	55354.72	46496.35	969.34	*	IG
STORE	32598	55361.42	46596.36	968.85	*	IG
STORE	32599	55293.03	46594.42	968.09	*	IG
STORE	32600	55284.46	46594.12	968.63	*	IG
STORE	32601	55276.94	46593.85	969.94	*	IG
STORE	32602	55268.04	46594.06	970.31	*	RE
STORE	32603	55253.94	46594.34	970.39	*	RC
STORE	32604	55240.66	46594.42	970.09	*	RE
STORE	32605	55222.24	46593.83	969.07	*	IG
STORE	32606	55220.01	46593.36	970.16	*	IG
STORE	32607	55217.48	46593.51	969.53	*	TOP CONC
STORE	32608	55211.64	46594.04	969.72	*	TOP CONC
STORE	32609	55213.79	46594.24	968.41	*	IC
STORE	32610	55215.63	46594.52	968.40	*	IC
STORE	32611	55208.02	46594.76	968.38	*	IG
STORE	32612	55152.10	46592.41	967.96	*	IG
STORE	32613	55146.43	46695.28	967.56	*	IG
STORE	32614	55207.90	46694.81	968.38	*	IG
STORE	32615	55211.79	46694.58	969.19	*	TOP CONC
STORE	32616	55213.58	46694.59	968.12	*	IC
STORE	32617	55215.47	46694.80	968.04	*	IC
STORE	32618	55217.24	46694.42	969.11	*	TOP CONC
STORE	32619	55220.00	46694.18	969.85	*	IG
STORE	32620	55222.33	46694.16	968.70	*	IG
STORE	32621	55240.20	46694.28	969.77	*	RE
STORE	32622	55254.60	46694.11	970.07	*	RC
STORE	32623	55267.97	46694.88	969.96	*	RE
STORE	32624	55277.66	46694.64	969.37	*	IG
STORE	32625	55283.99	46694.70	968.33	*	IG
STORE	32626	55294.32	46694.29	967.53	*	IG
STORE	32627	55352.56	46694.74	968.47	*	IG
STORE	32628	55354.79	46788.63	967.99	*	IG
STORE	32629	55293.69	46794.51	967.14	*	IG
STORE	32630	55283.43	46794.07	967.78	*	IG
STORE	32631	55277.53	46793.95	968.95	*	IG
STORE	32632	55267.31	46793.96	969.59	*	RE

STORE	32633	55253.86	46793.64	969.70	*	RC
STORE	32634	55241.41	46793.61	969.42	*	RE
STORE	32635	55222.69	46792.78	968.01	*	IG
STORE	32636	55221.43	46792.67	968.73	*	IG
STORE	32637	55216.76	46792.59	968.79	*	TOP CONC
STORE	32638	55211.10	46792.05	968.89	*	TOP CONC
STORE	32639	55213.23	46791.93	967.82	*	IC
STORE	32640	55214.84	46791.89	967.84	*	IC
STORE	32641	55206.87	46791.73	967.75	*	IG
STORE	32642	55146.44	46792.82	967.35	*	IG
STORE	32643	55199.01	46834.54	967.69	*	FO RG
STORE	32644	55114.78	46909.92	966.80	*	IG
STORE	32645	55208.13	46900.69	967.40	*	IG
STORE	32646	55210.85	46900.56	968.61	*	TOP CONC
STORE	32647	55216.85	46900.17	968.59	*	TOP CONC
STORE	32648	55212.84	46900.38	967.42	*	IC
STORE	32649	55214.65	46900.42	967.44	*	IC
STORE	32650	55218.71	46899.88	968.57	*	IG
STORE	32651	55221.56	46899.75	967.41	*	IG
STORE	32652	55240.77	46900.11	968.94	*	RE
STORE	32653	55253.93	46899.74	969.20	*	RC
STORE	32654	55267.31	46900.54	968.98	*	RE
STORE	32655	55279.60	46901.56	968.44	*	IG
STORE	32656	55286.29	46886.50	967.79	*	EP
STORE	32657	55290.12	46901.84	966.91	*	IG
STORE	32658	55296.21	46902.14	966.42	*	IG
STORE	32659	55351.48	46900.87	967.13	*	IG

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*BULLARD WASH (SURVEY DATA #3) received 9/23/97
DELETE COORDINATES (1-50000)
STORE   33004   43406.52        46275.73        914.77  *ELEV CK
STORE   33005   41456.40        45365.46        912.68  *GL
STORE   33006   41351.75        45888.58        910.47  *EP WOOD
STORE   33007   41354.29        46090.20        912.28  *GL
STORE   33008   41342.05        46149.82        910.98  *GL
STORE   33009   41274.58        46348.15        910.93  *EP WOOD
STORE   33010   41228.14        46809.60        911.61  *GL
STORE   33011   41794.15        45539.23        904.68  *WL C/L 96IN
STORE   33012   41777.00        45654.24        904.90  *WL C/L 96IN
STORE   33013   41501.59        46035.66        915.40  *TOP TOWER BASE
STORE   33014   41506.13        46076.46        915.36  *TOP TOWER BASE
STORE   33015   41547.06        46071.97        915.36  *TOP TOWER BASE
STORE   33016   41542.55        46031.31        915.33  *TOP TOWER BASE
STORE   33017   41459.07        46279.07        911.87  *EP WOOD
STORE   33018   41761.93        46973.65        906.13  *WL C/L 96IN
STORE   33019   41767.30        47018.87        906.20  *WL C/L 96IN
STORE   33020   41919.60        47323.51        913.26  *TOP TOWER BASE
STORE   33021   41922.84        47349.26        913.21  *TOP TOWER BASE
STORE   33022   41958.57        47344.23        913.23  *TOP TOWER BASE
STORE   33023   41954.81        47319.04        913.23  *TOP TOWER BASE
STORE   33024   41702.69        47324.75        913.18  *TOP TOWER BASE
STORE   33025   41669.38        47328.95        913.15  *TOP TOWER BASE
STORE   33026   41673.50        47362.18        913.12  *TOP TOWER BASE
STORE   33027   41707.02        47357.99        913.14  *TOP TOWER BASE
STORE   33028   42022.55        45844.57        913.44  *TOP TOWER BASE
STORE   33029   42025.42        45868.34        913.43  *TOP TOWER BASE
STORE   33030   42049.42        45865.39        913.43  *TOP TOWER BASE
STORE   33031   42046.20        45841.35        913.41  *TOP TOWER BASE
STORE   33032   42128.64        46687.08        914.49  *TOP TOWER BASE
STORE   33033   42131.79        46712.37        914.48  *TOP TOWER BASE
STORE   33034   42156.89        46709.53        914.51  *TOP TOWER BASE
STORE   33035   42153.85        46683.99        914.50  *TOP TOWER BASE
STORE   33038   41694.23        44758.13        913.29  *BRIDGE APPROSLAB
STORE   33039   41688.36        44794.07        912.94  *BRIDGE APPROSLAB
STORE   33040   41577.82        44794.88        912.48  *BRIDGE APPROSLAB
STORE   33041   41583.52        44758.83        912.89  *BRIDGE APPROSLAB
STORE   33042   41603.52        44758.78        913.08  *FACE  BARRIER
STORE   33043   41603.79        44757.11        913.12  *EDGE BRIDGEATBAR
STORE   33044   41596.66        44801.24        912.53  *EDGE BRIDGE
STORE   33045   41597.77        44794.72        912.62  *FACE BARRIER
STORE   33046   41668.60        44794.23        912.77  *FACE BARRIER
STORE   33047   41667.71        44800.69        912.68  *EDGE BRIDGE
STORE   33050   44761.25        45552.44        918.66  *EZ HIVOLTMETLPOL
STORE   33051   44662.19        45822.89        917.12  *EP WOOD
STORE   33052   44664.70        46176.97        918.91  *EP WOOD
STORE   33053   44664.26        46201.51        918.89  *EG
STORE   33054   44666.52        46206.02        918.34  *FO
STORE   33055   44665.09        46269.25        918.43  *FO
STORE   33056   44665.63        46355.18        918.70  *FO
STORE   33057   44667.25        46489.00        919.42  *EP WOOD
STORE   33058   44747.34        46510.79        921.65  *EZ HIVOLTMETLPOL
STORE   33061   45813.33        46252.21        921.10  *GL
STORE   33062   45807.12        46253.79        920.69  *GL
STORE   33063   45809.93        46270.97        920.93  *GL
STORE   33064   45816.26        46270.09        920.97  *GL
STORE   33065   45821.22        46305.71        920.85  *GL
STORE   33066   45815.85        46308.02        921.02  *GL
STORE   33069   46182.32        47514.14        926.30  *GL
STORE   33070   46183.33        47547.30        928.01  *GL
STORE   33071   46181.99        47561.70        928.46  *GL
STORE   33072   46170.44        47599.27        929.30  *GL
STORE   33073   46183.31        47641.52        928.98  *GL
STORE   33076   45342.67        44918.14        916.16  *FO
STORE   33077   45344.72        44854.17        915.74  *FO
STORE   33078   45339.37        44782.53        915.12  *FO
STORE   33079   45341.44        44776.12        915.03  *FO
STORE   33080   45347.79        44775.98        915.08  *FO
STORE   33081   45467.03        44781.22        915.58  *FO
STORE   33082   45497.46        44787.76        917.99  *FO
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*BULLARD WASH (SURVEY DATA #3) received 9/23/97
* Sorted by description and point number
DELETE COORDINATES (1-50000)
STORE   33038   41694.23        44758.13        913.29  *BRIDGE APPROSLAB
STORE   33039   41688.36        44794.07        912.94  *BRIDGE APPROSLAB
STORE   33040   41577.82        44794.88        912.48  *BRIDGE APPROSLAB
STORE   33041   41583.52        44758.83        912.89  *BRIDGE APPROSLAB
STORE   33134   55074.71        44568.16        969.94  *CATV
STORE   33139   55292.90        44562.80        972.04  *CATV
STORE   33140   55293.03        44556.53        972.15  *CATV
STORE   33146   55302.24        44555.95        972.49  *CATV
STORE   33123   51614.15        44630.95        960.20  *CATV BLUSTK
STORE   33124   51719.11        44633.08        959.79  *CATV BLUSTK
STORE   33125   51813.10        44627.61        961.63  *CATV BLUSTK
STORE   33126   51812.38        44569.68        961.53  *CATV BLUSTK
STORE   33127   51819.06        44640.54        961.90  *CATV BLUSTK
STORE   33128   52027.12        44633.89        961.32  *CATV BLUSTK
STORE   33122   51814.97        44637.56        962.74  *CATV BOX
STORE   33044   41596.66        44801.24        912.53  *EDGE BRIDGE
STORE   33047   41667.71        44800.69        912.68  *EDGE BRIDGE
STORE   33043   41603.79        44757.11        913.12  *EDGE BRIDGEATBAR
STORE   33053   44664.26        46201.51        918.89  *EG
STORE   33004   43406.52        46275.73        914.77  *ELEV CK
STORE   33006   41351.75        45888.58        910.47  *EP WOOD
STORE   33009   41274.58        46348.15        910.93  *EP WOOD
STORE   33017   41459.07        46279.07        911.87  *EP WOOD
STORE   33051   44662.19        45822.89        917.12  *EP WOOD
STORE   33052   44664.70        46176.97        918.91  *EP WOOD
STORE   33057   44667.25        46489.00        919.42  *EP WOOD
STORE   33050   44761.25        45552.44        918.66  *EZ HIVOLTMETLPOL
STORE   33058   44747.34        46510.79        921.65  *EZ HIVOLTMETLPOL
STORE   33042   41603.52        44758.78        913.08  *FACE  BARRIER
STORE   33045   41597.77        44794.72        912.62  *FACE BARRIER
STORE   33046   41668.60        44794.23        912.77  *FACE BARRIER
STORE   33054   44666.52        46206.02        918.34  *FO
STORE   33055   44665.09        46269.25        918.43  *FO
STORE   33056   44665.63        46355.18        918.70  *FO
STORE   33076   45342.67        44918.14        916.16  *FO
STORE   33077   45344.72        44854.17        915.74  *FO
STORE   33078   45339.37        44782.53        915.12  *FO
STORE   33079   45341.44        44776.12        915.03  *FO
STORE   33080   45347.79        44775.98        915.08  *FO
STORE   33081   45467.03        44781.22        915.58  *FO
STORE   33082   45497.46        44787.76        917.99  *FO
STORE   33083   45544.90        44788.84        917.87  *FO
STORE   33084   45647.48        44783.46        916.93  *FO
STORE   33085   45661.35        44877.18        916.85  *FO
STORE   33086   45642.05        44752.33        920.10  *FO
STORE   33087   45640.05        44727.68        920.03  *FO
STORE   33088   45619.82        44617.14        915.52  *FO
STORE   33089   45587.99        44514.89        915.41  *FO
STORE   33090   45565.83        44441.75        917.12  *FO
STORE   33091   45558.63        44399.73        917.27  *FO
STORE   33092   45685.09        44781.04        920.09  *FO
STORE   33093   45709.30        44779.24        920.26  *FO
STORE   33094   45715.55        44774.43        920.34  *FO
STORE   33095   45719.15        44769.34        920.60  *FO
STORE   33096   45717.42        44749.56        921.18  *FO
STORE   33097   45714.22        44721.85        921.15  *FO
STORE   33098   45715.30        44717.91        920.97  *FO
STORE   33099   45722.21        44716.48        921.00  *FO
STORE   33100   45798.07        44711.32        921.49  *FO
STORE   33005   41456.40        45365.46        912.68  *GL
STORE   33007   41354.29        46090.20        912.28  *GL
STORE   33008   41342.05        46149.82        910.98  *GL
STORE   33010   41228.14        46809.60        911.61  *GL
STORE   33061   45813.33        46252.21        921.10  *GL
STORE   33062   45807.12        46253.79        920.69  *GL
STORE   33063   45809.93        46270.97        920.93  *GL
STORE   33064   45816.26        46270.09        920.97  *GL
STORE   33065   45821.22        46305.71        920.85  *GL
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STORE	33066	45815.85	46308.02	921.02	*GL
STORE	33069	46182.32	47514.14	926.30	*GL
STORE	33070	46183.33	47547.30	928.01	*GL
STORE	33071	46181.99	47561.70	928.46	*GL
STORE	33072	46170.44	47599.27	929.30	*GL
STORE	33073	46183.31	47641.52	928.98	*GL
STORE	33103	45587.82	44701.57	916.01	*GL
STORE	33104	45579.85	44715.78	917.05	*GL
STORE	33105	45584.16	44743.25	918.75	*GL
STORE	33106	45593.60	44743.08	919.02	*GL
STORE	33107	45597.25	44773.10	917.49	*GL
STORE	33108	45588.19	44773.34	917.48	*GL
STORE	33116	51709.86	44641.60	960.19	*GL
STORE	33117	51704.24	44640.57	960.94	*GL
STORE	33118	51708.61	44582.12	960.57	*GL
STORE	33119	51798.27	44641.41	960.48	*GL
STORE	33120	51816.05	44654.38	960.78	*GL
STORE	33121	51897.03	44651.05	961.13	*GL
STORE	33133	55187.71	44565.12	973.06	*TELCO BOX
STORE	33141	55307.04	44544.06	972.65	*TELCO RISER
STORE	33145	55290.65	44636.35	971.67	*TELCO RISER
STORE	33013	41501.59	46035.66	915.40	*TOP TOWER BASE
STORE	33014	41506.13	46076.46	915.36	*TOP TOWER BASE
STORE	33015	41547.06	46071.97	915.36	*TOP TOWER BASE
STORE	33016	41542.55	46031.31	915.33	*TOP TOWER BASE
STORE	33020	41919.60	47323.51	913.26	*TOP TOWER BASE
STORE	33021	41922.84	47349.26	913.21	*TOP TOWER BASE
STORE	33022	41958.57	47344.23	913.23	*TOP TOWER BASE
STORE	33023	41954.81	47319.04	913.23	*TOP TOWER BASE
STORE	33024	41702.69	47324.75	913.18	*TOP TOWER BASE
STORE	33025	41669.38	47328.95	913.15	*TOP TOWER BASE
STORE	33026	41673.50	47362.18	913.12	*TOP TOWER BASE
STORE	33027	41707.02	47357.99	913.14	*TOP TOWER BASE
STORE	33028	42022.55	45844.57	913.44	*TOP TOWER BASE
STORE	33029	42025.42	45868.34	913.43	*TOP TOWER BASE
STORE	33030	42049.42	45865.39	913.43	*TOP TOWER BASE
STORE	33031	42046.20	45841.35	913.41	*TOP TOWER BASE
STORE	33032	42128.64	46687.08	914.49	*TOP TOWER BASE
STORE	33033	42131.79	46712.37	914.48	*TOP TOWER BASE
STORE	33034	42156.89	46709.53	914.51	*TOP TOWER BASE
STORE	33035	42153.85	46683.99	914.50	*TOP TOWER BASE
STORE	33131	55177.81	44575.94	971.07	*WF
STORE	33144	55308.15	44479.29	972.17	*WF
STORE	33101	45678.45	44660.71	920.35	*WL
STORE	33102	45626.94	44663.45	916.39	*WL
STORE	33115	51720.56	44637.64	959.88	*WL BLUESTK
STORE	33135	55200.93	44562.07	971.51	*WL BLUSTK
STORE	33136	55200.39	44630.68	970.87	*WL BLUSTK
STORE	33011	41794.15	45539.23	904.68	*WL C/L 96IN
STORE	33012	41777.00	45654.24	904.90	*WL C/L 96IN POTHOLES
STORE	33018	41761.93	46973.65	906.13	*WL C/L 96IN
STORE	33019	41767.30	47018.87	906.20	*WL C/L 96IN
STORE	33111	51777.48	44790.21	960.30	*WL END ?
STORE	33112	51772.76	44637.04	960.20	*WV
STORE	33113	51772.73	44632.92	960.24	*WV
STORE	33114	51769.33	44633.56	960.27	*WV
STORE	33132	55177.86	44561.83	970.78	*WV
STORE	33137	55301.89	44562.15	972.52	*WV
STORE	33138	55297.33	44555.39	972.46	*WV
STORE	33142	55304.50	44618.70	971.93	*WV
STORE	33143	55232.93	44620.38	971.72	*WV

STORE	33083	45544.90	44788.84	917.87	*FO
STORE	33084	45647.48	44783.46	916.93	*FO
STORE	33085	45661.35	44877.18	916.85	*FO
STORE	33086	45642.05	44752.33	920.10	*FO
STORE	33087	45640.05	44727.68	920.03	*FO
STORE	33088	45619.82	44617.14	915.52	*FO
STORE	33089	45587.99	44514.89	915.41	*FO
STORE	33090	45565.83	44441.75	917.12	*FO
STORE	33091	45558.63	44399.73	917.27	*FO
STORE	33092	45685.09	44781.04	920.09	*FO
STORE	33093	45709.30	44779.24	920.26	*FO
STORE	33094	45715.55	44774.43	920.34	*FO
STORE	33095	45719.15	44769.34	920.60	*FO
STORE	33096	45717.42	44749.56	921.18	*FO
STORE	33097	45714.22	44721.85	921.15	*FO
STORE	33098	45715.30	44717.91	920.97	*FO
STORE	33099	45722.21	44716.48	921.00	*FO
STORE	33100	45798.07	44711.32	921.49	*FO
STORE	33101	45678.45	44660.71	920.35	*WL
STORE	33102	45626.94	44663.45	916.39	*WL
STORE	33103	45587.82	44701.57	916.01	*GL
STORE	33104	45579.85	44715.78	917.05	*GL
STORE	33105	45584.16	44743.25	918.75	*GL
STORE	33106	45593.60	44743.08	919.02	*GL
STORE	33107	45597.25	44773.10	917.49	*GL
STORE	33108	45588.19	44773.34	917.48	*GL
STORE	33111	51777.48	44790.21	960.30	*WL END
STORE	33112	51772.76	44637.04	960.20	*WV
STORE	33113	51772.73	44632.92	960.24	*WV
STORE	33114	51769.33	44633.56	960.27	*WV
STORE	33115	51720.56	44637.64	959.88	*WL BLUESTK
STORE	33116	51709.86	44641.60	960.19	*GL
STORE	33117	51704.24	44640.57	960.94	*GL
STORE	33118	51708.61	44582.12	960.57	*GL
STORE	33119	51798.27	44641.41	960.48	*GL
STORE	33120	51816.05	44654.38	960.78	*GL
STORE	33121	51897.03	44651.05	961.13	*GL
STORE	33122	51814.97	44637.56	962.74	*CATV BOX
STORE	33123	51614.15	44630.95	960.20	*CATV BLUSTK
STORE	33124	51719.11	44633.08	959.79	*CATV BLUSTK
STORE	33125	51813.10	44627.61	961.63	*CATV BLUSTK
STORE	33126	51812.38	44569.68	961.53	*CATV BLUSTK
STORE	33127	51819.06	44640.54	961.90	*CATV BLUSTK
STORE	33128	52027.12	44633.89	961.32	*CATV BLUSTK
STORE	33131	55177.81	44575.94	971.07	*WF
STORE	33132	55177.86	44561.83	970.78	*WV
STORE	33133	55187.71	44565.12	973.06	*TELCO BOX
STORE	33134	55074.71	44568.16	969.94	*CATV
STORE	33135	55200.93	44562.07	971.51	*WL BLUSTK
STORE	33136	55200.39	44630.68	970.87	*WL BLUSTK
STORE	33137	55301.89	44562.15	972.52	*WV
STORE	33138	55297.33	44555.39	972.46	*WV
STORE	33139	55292.90	44562.80	972.04	*CATV
STORE	33140	55293.03	44556.53	972.15	*CATV
STORE	33141	55307.04	44544.06	972.65	*TELCO RISER
STORE	33142	55304.50	44618.70	971.93	*WV
STORE	33143	55232.93	44620.38	971.72	*WV
STORE	33144	55308.15	44479.29	972.17	*WF
STORE	33145	55290.65	44636.35	971.67	*TELCO RISER
STORE	33146	55302.24	44555.95	972.49	*CATV

```
*BULLARD WASH (SURVEY DATA #3) received 9/23/97
* Sorted by description and point number
DELETE COORDINATES (1-50000)
STORE   33038   41694.23        44758.13        913.29  *BRIDGE APPROSLAB
STORE   33039   41688.36        44794.07        912.94  *BRIDGE APPROSLAB
STORE   33040   41577.82        44794.88        912.48  *BRIDGE APPROSLAB
STORE   33041   41583.52        44758.83        912.89  *BRIDGE APPROSLAB
STORE   33134   55074.71        44568.16        969.94  *CATV
STORE   33139   55292.90        44562.80        972.04  *CATV
STORE   33140   55293.03        44556.53        972.15  *CATV
STORE   33146   55302.24        44555.95        972.49  *CATV
STORE   33123   51614.15        44630.95        960.20  *CATV BLUSTK
STORE   33124   51719.11        44633.08        959.79  *CATV BLUSTK
STORE   33125   51813.10        44627.61        961.63  *CATV BLUSTK
STORE   33126   51812.38        44569.68        961.53  *CATV BLUSTK
STORE   33127   51819.06        44640.54        961.90  *CATV BLUSTK
STORE   33128   52027.12        44633.89        961.32  *CATV BLUSTK
STORE   33122   51814.97        44637.56        962.74  *CATV BOX
STORE   33044   41596.66        44801.24        912.53  *EDGE BRIDGE
STORE   33047   41667.71        44800.69        912.68  *EDGE BRIDGE
STORE   33043   41603.79        44757.11        913.12  *EDGE BRIDGEATBAR
STORE   33053   44664.26        46201.51        918.89  *EG
STORE   33004   43406.52        46275.73        914.77  *ELEV CK
STORE   33006   41351.75        45888.58        910.47  *EP WOOD
STORE   33009   41274.58        46348.15        910.93  *EP WOOD
STORE   33017   41459.07        46279.07        911.87  *EP WOOD
STORE   33051   44662.19        45822.89        917.12  *EP WOOD
STORE   33052   44664.70        46176.97        918.91  *EP WOOD
STORE   33057   44667.25        46489.00        919.42  *EP WOOD
STORE   33050   44761.25        45552.44        918.66  *EZ HIVOLTMETLPOL
STORE   33058   44747.34        46510.79        921.65  *EZ HIVOLTMETLPOL
STORE   33042   41603.52        44758.78        913.08  *FACE  BARRIER
STORE   33045   41597.77        44794.72        912.62  *FACE BARRIER
STORE   33046   41668.60        44794.23        912.77  *FACE BARRIER
STORE   33054   44666.52        46206.02        918.34  *FO
STORE   33055   44665.09        46269.25        918.43  *FO
STORE   33056   44665.63        46355.18        918.70  *FO
STORE   33076   45342.67        44918.14        916.16  *FO
STORE   33077   45344.72        44854.17        915.74  *FO
STORE   33078   45339.37        44782.53        915.12  *FO
STORE   33079   45341.44        44776.12        915.03  *FO
STORE   33080   45347.79        44775.98        915.08  *FO
STORE   33081   45467.03        44781.22        915.58  *FO
STORE   33082   45497.46        44787.76        917.99  *FO
STORE   33083   45544.90        44788.84        917.87  *FO
STORE   33084   45647.48        44783.46        916.93  *FO
STORE   33085   45661.35        44877.18        916.85  *FO
STORE   33086   45642.05        44752.33        920.10  *FO
STORE   33087   45640.05        44727.68        920.03  *FO
STORE   33088   45619.82        44617.14        915.52  *FO
STORE   33089   45587.99        44514.89        915.41  *FO
STORE   33090   45565.83        44441.75        917.12  *FO
STORE   33091   45558.63        44399.73        917.27  *FO
STORE   33092   45685.09        44781.04        920.09  *FO
STORE   33093   45709.30        44779.24        920.26  *FO
STORE   33094   45715.55        44774.43        920.34  *FO
STORE   33095   45719.15        44769.34        920.60  *FO
STORE   33096   45717.42        44749.56        921.18  *FO
STORE   33097   45714.22        44721.85        921.15  *FO
STORE   33098   45715.30        44717.91        920.97  *FO
STORE   33099   45722.21        44716.48        921.00  *FO
STORE   33100   45798.07        44711.32        921.49  *FO
STORE   33005   41456.40        45365.46        912.68  *GL
STORE   33007   41354.29        46090.20        912.28  *GL
STORE   33008   41342.05        46149.82        910.98  *GL
STORE   33010   41228.14        46809.60        911.61  *GL
STORE   33061   45813.33        46252.21        921.10  *GL
STORE   33062   45807.12        46253.79        920.69  *GL
STORE   33063   45809.93        46270.97        920.93  *GL
STORE   33064   45816.26        46270.09        920.97  *GL
STORE   33065   45821.22        46305.71        920.85  *GL
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STORE	33066	45815.85	46308.02	921.02	*GL
STORE	33069	46182.32	47514.14	926.30	*GL
STORE	33070	46183.33	47547.30	928.01	*GL
STORE	33071	46181.99	47561.70	928.46	*GL
STORE	33072	46170.44	47599.27	929.30	*GL
STORE	33073	46183.31	47641.52	928.98	*GL
STORE	33103	45587.82	44701.57	916.01	*GL
STORE	33104	45579.85	44715.78	917.05	*GL
STORE	33105	45584.16	44743.25	918.75	*GL
STORE	33106	45593.60	44743.08	919.02	*GL
STORE	33107	45597.25	44773.10	917.49	*GL
STORE	33108	45588.19	44773.34	917.48	*GL
STORE	33116	51709.86	44641.60	960.19	*GL
STORE	33117	51704.24	44640.57	960.94	*GL
STORE	33118	51708.61	44582.12	960.57	*GL
STORE	33119	51798.27	44641.41	960.48	*GL
STORE	33120	51816.05	44654.38	960.78	*GL
STORE	33121	51897.03	44651.05	961.13	*GL
STORE	33133	55187.71	44565.12	973.06	*TELCO BOX
STORE	33141	55307.04	44544.06	972.65	*TELCO RISER
STORE	33145	55290.65	44636.35	971.67	*TELCO RISER
STORE	33013	41501.59	46035.66	915.40	*TOP TOWER BASE
STORE	33014	41506.13	46076.46	915.36	*TOP TOWER BASE
STORE	33015	41547.06	46071.97	915.36	*TOP TOWER BASE
STORE	33016	41542.55	46031.31	915.33	*TOP TOWER BASE
STORE	33020	41919.60	47323.51	913.26	*TOP TOWER BASE
STORE	33021	41922.84	47349.26	913.21	*TOP TOWER BASE
STORE	33022	41958.57	47344.23	913.23	*TOP TOWER BASE
STORE	33023	41954.81	47319.04	913.23	*TOP TOWER BASE
STORE	33024	41702.69	47324.75	913.18	*TOP TOWER BASE
STORE	33025	41669.38	47328.95	913.15	*TOP TOWER BASE
STORE	33026	41673.50	47362.18	913.12	*TOP TOWER BASE
STORE	33027	41707.02	47357.99	913.14	*TOP TOWER BASE
STORE	33028	42022.55	45844.57	913.44	*TOP TOWER BASE
STORE	33029	42025.42	45868.34	913.43	*TOP TOWER BASE
STORE	33030	42049.42	45865.39	913.43	*TOP TOWER BASE
STORE	33031	42046.20	45841.35	913.41	*TOP TOWER BASE
STORE	33032	42128.64	46687.08	914.49	*TOP TOWER BASE
STORE	33033	42131.79	46712.37	914.48	*TOP TOWER BASE
STORE	33034	42156.89	46709.53	914.51	*TOP TOWER BASE
STORE	33035	42153.85	46683.99	914.50	*TOP TOWER BASE
STORE	33131	55177.81	44575.94	971.07	*WF
STORE	33144	55308.15	44479.29	972.17	*WF
STORE	33101	45678.45	44660.71	920.35	*WL
STORE	33102	45626.94	44663.45	916.39	*WL
STORE	33115	51720.56	44637.64	959.88	*WL BLUESTK
STORE	33135	55200.93	44562.07	971.51	*WL BLUSTK
STORE	33136	55200.39	44630.68	970.87	*WL BLUSTK
STORE	33011	41794.15	45539.23	904.68	*WL C/L 96IN
STORE	33012	41777.00	45654.24	904.90	*WL C/L 96IN
STORE	33018	41761.93	46973.65	906.13	*WL C/L 96IN
STORE	33019	41767.30	47018.87	906.20	*WL C/L 96IN
STORE	33111	51777.48	44790.21	960.30	*WL END
STORE	33112	51772.76	44637.04	960.20	*WV
STORE	33113	51772.73	44632.92	960.24	*WV
STORE	33114	51769.33	44633.56	960.27	*WV
STORE	33132	55177.86	44561.83	970.78	*WV
STORE	33137	55301.89	44562.15	972.52	*WV
STORE	33138	55297.33	44555.39	972.46	*WV
STORE	33142	55304.50	44618.70	971.93	*WV
STORE	33143	55232.93	44620.38	971.72	*WV

DELETE COORDINATES (40000-50000)

STORE	40100	41527.30	44798.88	911.91	*END GUARDRAIL
STORE	40101	41563.29	44754.77	912.59	*END GUARDRAIL
STORE	40102	41750.84	44749.99	913.03	*END GUARDRAIL
STORE	40103	41709.41	44801.69	912.07	*END GUARDRAIL
STORE	40104	41723.27	44791.11	912.65	*RE
STORE	40105	41724.15	44804.83	912.36	*ANG PT RE
STORE	40106	41705.88	44837.73	911.04	*RE
STORE	40107	41722.68	44845.38	910.72	*RE
STORE	40108	41740.15	44809.34	912.18	*RE
STORE	40109	41749.80	44793.36	912.40	*ANG PT RE
STORE	40110	41763.21	44757.82	912.59	*ANG PT RE
STORE	40111	41771.14	44743.03	912.48	*C/L RD16FT RP
STORE	40112	41760.53	44704.46	911.34	*C/L RD16FT RP
STORE	40113	41745.13	44663.18	909.91	*C/L RD16FT RP
STORE	40114	42010.48	44756.38	910.74	*RE C/L40WWTPDIRT
STORE	40115	42010.67	44729.77	910.96	*C/L RD40WWTPDIRT
STORE	40116	42009.54	44701.19	911.32	*C/L RD40WWTPDIRT
STORE	40117	42053.09	44785.07	910.24	*ANG PT RE
STORE	40118	42049.79	44792.52	910.03	*ANG PT RE
STORE	40119	42029.20	44792.33	910.14	*ANG PT RE
STORE	40120	42022.77	44785.51	910.29	*ANG PT RE
STORE	40121	42037.34	44801.41	909.74	*C/L 22RD DIRT
STORE	40122	42037.06	44827.86	911.03	*C/L 22RD DIRT
STORE	40123	42058.61	44753.31	911.16	*WV
STORE	40124	41910.03	44758.10	910.87	*WZBLSK 96INWL
STORE	40125	41905.74	44787.32	910.59	*WZBLSK 96INWL
STORE	40126	43346.04	44779.39	910.80	*ANG PT RE
STORE	40127	43352.02	44789.10	911.49	*ANG PT RE
STORE	40128	43367.93	44789.82	911.44	*ANG PT RE
STORE	40129	43374.92	44779.43	910.79	*ANG PT RE
STORE	40130	43380.02	44752.27	911.33	*ANG PT RE
STORE	40131	43376.47	44743.69	911.58	*ANG PT RE
STORE	40132	43356.85	44743.19	911.51	*ANG PT RE
STORE	40133	43350.12	44752.13	911.26	*ANG PT RE
STORE	40134	43366.76	44713.80	912.57	*C/L 15FTDIRTROAD
STORE	40135	43390.07	44748.81	911.26	*WV
STORE	40136	43360.35	44808.96	912.76	*C/L 30FT RD IG
STORE	40137	44684.83	44720.19	913.76	*ANG PT RE
STORE	40138	44678.71	44712.39	913.78	*ANG PT RE
STORE	40139	44656.59	44714.27	913.74	*ANG PT RE
STORE	40140	44648.06	44720.34	913.61	*ANG PT RE
STORE	40141	44644.35	44761.00	913.69	*ANG PT RE
STORE	40142	44651.58	44768.12	914.10	*ANG PT RE
STORE	40143	44676.41	44768.79	914.26	*ANG PT RE
STORE	40144	44682.12	44759.99	913.76	*ANG PT RE
STORE	40145	44681.17	44780.06	914.94	*RD EDGE IG
STORE	40146	44685.91	44788.59	915.55	*RD EDGE IG
STORE	40147	44696.06	44790.26	916.33	*RD EDGE IG
STORE	40148	44710.55	44791.01	917.01	*RD EDGE IG
STORE	40149	44707.18	44834.01	917.47	*RD EDGE IG
STORE	40150	44688.27	44825.11	916.57	*RD EDGE IG
STORE	40151	44674.88	44818.83	915.29	*RD EDGE IG
STORE	40152	44659.26	44809.69	915.04	*RD EDGE IG
STORE	40153	44658.31	44780.23	914.64	*RD EDGE IG
STORE	40154	45081.82	44715.60	914.93	*SMINV.N.S.907.39
STORE	40155	45013.76	44773.77	912.72	*EP
STORE	40156	45013.34	44844.41	917.88	*EP
STORE	40157	45037.09	44929.62	918.16	*EP
STORE	40158	45057.87	45005.46	918.52	*BC
STORE	40159	45058.18	44954.97	918.94	*BC
STORE	40160	45098.92	44955.05	918.29	*BC
STORE	40161	45058.14	44988.93	919.29	*BF
STORE	40162	45074.31	44907.28	917.97	*EV
STORE	40163	46470.68	44755.24	929.24	*ANG PT RE
STORE	40164	46479.42	44767.65	929.06	*RE
STORE	40165	46476.17	44766.81	929.22	*IV

STORE	40166	46487.20	44774.19	929.34	*RE
STORE	40167	46491.81	44776.98	929.72	*RE
STORE	40168	46492.09	44783.22	930.19	*RE PC
STORE	40169	46491.56	44789.16	930.54	*FL PC
STORE	40170	46488.67	44777.88	929.65	*EP
STORE	40171	46486.53	44780.77	929.80	*PLANTER EDGE
STORE	40172	46474.13	44765.25	929.58	*PLANTER EDGE
STORE	40173	46462.53	44765.65	929.56	*PLANTER EDGE
STORE	40174	46463.06	44780.25	929.98	*PLANTER EDGE
STORE	40175	46466.77	44772.70	929.34	*PV 4 IN.
STORE	40176	46460.60	44776.66	929.25	*PV 4 IN.
STORE	40177	46456.94	44771.64	929.22	*MESQ 4 IN.
STORE	40178	46428.76	44771.24	928.86	*MESQ 4 IN.
STORE	40179	46408.77	44772.49	929.11	*MESQ 2 IN.
STORE	40180	46400.25	44777.10	929.29	*MESQ 2 IN.
STORE	40181	46386.33	44771.72	929.15	*MESQ 2 IN.
STORE	40182	46483.72	44780.44	929.67	*FL PC
STORE	40183	46492.30	44826.88	931.38	*BC
STORE	40184	46492.43	44868.75	931.51	*BC
STORE	40185	46531.72	44807.23	931.39	*FF BLOCK 8 FT
STORE	40186	46531.71	44786.12	930.62	*FL PC
STORE	40187	46532.00	44783.47	930.83	*PLANTER EDGE
STORE	40188	46535.45	44776.32	930.57	*PLANTER EDGE
STORE	40189	46543.62	44767.34	930.49	*PLANTER EDGE
STORE	40190	46540.62	44780.66	930.68	*FL PC
STORE	40191	46546.42	44775.43	930.20	*MESQ 6 IN.
STORE	40192	46561.78	44766.71	930.66	*PLANTER EDGE
STORE	40193	46561.86	44780.71	931.10	*PLANTER EDGE
STORE	40194	45793.29	44783.18	920.96	*IG
STORE	40195	45796.20	44802.40	921.23	*IG
STORE	40196	45910.55	44779.09	922.36	*IG
STORE	40197	45909.95	44794.41	925.19	*IG TOP
STORE	40198	46006.41	44780.03	925.36	*IG
STORE	40199	46006.00	44790.40	928.27	*IG TOP
STORE	40200	46059.05	44781.04	934.07	*IG
STORE	40201	46060.29	44798.18	932.70	*CONC
STORE	40202	46056.33	44782.61	936.07	*TOP CONC WALL
STORE	40203	46061.76	44783.29	932.57	*CONC SLAB
STORE	40204	46169.01	44779.13	934.16	*IG
STORE	40205	46169.10	44782.80	934.54	*IG
STORE	40206	46169.09	44783.57	937.40	*TOP CONC WALL
STORE	40207	46170.42	44794.12	933.79	*CONC
STORE	40208	46237.89	44805.72	934.24	*CONC
STORE	40209	46238.18	44784.95	934.12	*CONC
STORE	40210	46238.25	44784.02	937.78	*TOP CONC WALL
STORE	40211	46238.03	44783.43	934.49	*IG
STORE	40212	46237.98	44779.47	934.01	*IG
STORE	40213	46326.34	44823.75	933.55	*CONC
STORE	40214	46332.26	44783.95	937.70	*TOP CONC WALLEND
STORE	40215	46332.24	44783.18	933.82	*IG
STORE	40216	46332.43	44780.09	933.16	*IG
STORE	40217	46418.26	44780.55	931.08	*IG
STORE	40218	46418.44	44801.20	931.33	*IG
STORE	40219	46486.24	44785.24	930.77	*CONC
STORE	40220	46487.19	44804.16	930.98	*CONC
STORE	40221	46782.53	44782.49	933.11	*IG
STORE	40222	46783.41	44799.81	933.40	*IG
STORE	40223	46800.18	44801.75	935.20	*IG
STORE	40224	46800.68	44786.03	935.39	*IG
STORE	40225	46904.52	44785.85	935.90	*IG
STORE	40226	46904.23	44797.95	936.01	*IG
STORE	40227	47003.10	44787.26	935.05	*IG
STORE	40228	47004.43	44801.82	935.26	*IG
STORE	40229	47118.69	44788.64	934.61	*IG
STORE	40230	47117.53	44805.11	934.74	*IG
STORE	40231	47287.62	44790.14	935.62	*IG
STORE	40232	47291.62	44815.72	935.99	*IG

STORE	40233	46703.67	44784.55	933.00	*IG
STORE	40234	46704.17	44790.85	932.96	*IG
STORE	40235	46586.66	44782.12	931.10	*IG
STORE	40236	46587.59	44791.63	931.21	*IG
STORE	40237	46531.73	44776.79	930.09	*RE MOC
STORE	40238	46553.83	44754.52	930.16	*RE
STORE	40239	46508.22	44754.52	929.82	*RE
STORE	40240	46510.93	44768.76	929.79	*RP
STORE	40241	46512.17	44811.25	931.36	*RP
STORE	40242	45795.51	44768.87	922.12	*MESQ 4 IN.
STORE	40243	45803.46	44770.53	924.85	*MESQ 4 IN.
STORE	40244	45826.32	44770.66	922.77	*PV 4 IN.
STORE	40245	45916.00	44769.74	924.96	*MESQ 4 IN.
STORE	40246	46038.92	44772.05	927.91	*PV 2 IN.
STORE	40247	47266.74	44776.01	934.82	*MESQ 6 IN.
STORE	40248	47250.80	44779.56	933.78	*PV 4 IN.
STORE	40249	47179.72	44776.19	935.70	*MESQ 2 IN.
STORE	40250	47119.72	44776.93	931.32	*PV 5 IN.
STORE	40251	47087.95	44776.02	930.79	*MESQ 4 IN.
STORE	40252	47051.66	44775.48	933.81	*MESQ 2 IN.
STORE	40253	46964.07	44773.79	930.79	*MESQ 2 IN.
STORE	40254	46927.05	44778.30	930.64	*PV 4 IN.
STORE	40255	46887.88	44778.27	928.80	*PV 4 IN.
STORE	40256	46874.03	44774.02	930.39	*MESQ 3 IN.
STORE	40257	46859.78	44778.23	929.97	*PV 3 IN.
STORE	40258	46779.36	44777.82	928.93	*MESQ 3 IN.
STORE	40259	46722.19	44773.83	927.36	*PV 4 IN.
STORE	40260	46703.35	44775.92	929.14	*MESQ 6 IN.
STORE	40261	46627.06	44773.37	929.04	*PV 5 IN.
STORE	40262	41782.30	44843.26	911.64	*RC IG 14FT WIDE
STORE	40263	41878.18	44843.72	912.04	*RC IG 14FT WIDE
STORE	40264	41988.10	44841.54	912.52	*RC IG 14FT WIDE
STORE	40265	42013.34	44841.86	912.06	*RC IG 14FT WIDE
STORE	40266	42034.34	44841.40	910.99	*RC IG 14FT WIDE
STORE	40267	42085.71	44839.72	911.66	*RC IG 14FT WIDE
STORE	40268	42185.61	44837.54	911.99	*RC IG 14FT WIDE
STORE	40269	42286.59	44834.60	912.21	*RC IG 14FT WIDE
STORE	40270	42384.61	44832.72	912.48	*RC IG 14FT WIDE
STORE	40271	42510.59	44831.52	912.58	*RC IG 14FT WIDE
STORE	40272	42637.01	44831.65	912.87	*RC IG 14FT WIDE
STORE	40273	42785.15	44830.80	913.11	*RC IG 14FT WIDE
STORE	40274	42885.39	44830.64	913.28	*RC IG 14FT WIDE
STORE	40275	42984.29	44828.85	913.40	*RC IG 14FT WIDE
STORE	40276	43087.11	44828.78	913.63	*RC IG 14FT WIDE
STORE	40277	43183.39	44827.26	913.77	*RC IG 14FT WIDE
STORE	40278	43286.15	44826.06	913.88	*RC IG 14FT WIDE
STORE	40279	43334.93	44824.38	913.63	*RC IG 14FT WIDE
STORE	40280	43360.42	44825.08	912.69	*RC IG 14FT WIDE
STORE	40281	43398.73	44823.33	912.50	*RC IG 14FT WIDE
STORE	40282	43440.62	44817.10	912.59	*RC IG 16FT+/-WD
STORE	40283	43484.14	44816.77	912.53	*RC IG 16FT+/-WD
STORE	40284	43585.69	44815.97	912.59	*RC IG 16FT+/-WD
STORE	40285	43686.22	44815.14	912.76	*RC IG 16FT+/-WD
STORE	40286	43785.15	44814.27	913.00	*RC IG 16FT+/-WD
STORE	40287	43887.47	44814.49	912.97	*RC IG 16FT+/-WD
STORE	40288	43985.27	44814.17	913.30	*RC IG 16FT+/-WD
STORE	40289	44088.58	44813.28	913.49	*RC IG 16FT+/-WD
STORE	40290	44187.12	44812.87	913.67	*RC IG 16FT+/-WD
STORE	40291	44290.97	44811.51	913.95	*RC IG 16FT+/-WD
STORE	40292	44393.87	44809.44	914.13	*RC IG 16FT+/-WD
STORE	40293	44494.33	44808.74	914.35	*RC IG 16FT+/-WD
STORE	40294	44594.93	44808.78	914.10	*RC IG 16FT+/-WD
STORE	40295	44634.58	44807.41	914.31	*END RC IG
STORE	40296	45707.07	44749.87	921.07	*RE
STORE	40297	45735.60	44766.56	920.46	*RI DIRT
STORE	40298	45750.70	44785.23	920.45	*RI DIRT
STORE	40299	45771.16	44780.41	920.30	*RI DIRT

STORE	40300	45775.69	44764.21	920.75	*RI DIRT
STORE	40301	45784.12	44751.71	921.76	*RE
STORE	40302	45787.54	44861.06	919.22	*RI DIRT
STORE	40303	45772.70	44859.68	919.20	*RI DIRT
STORE	40304	45791.88	44977.11	918.95	*RI DIRT
STORE	40305	45809.16	44982.69	919.51	*RI DIRT
STORE	40306	45824.86	45100.34	920.84	*RI DIRT
STORE	40307	45809.03	45101.62	920.40	*RI DIRT
STORE	40308	45804.97	45171.25	920.85	*RI DIRT
STORE	40309	45831.06	45169.05	920.76	*RI DIRT
STORE	40310	45826.73	45254.95	921.54	*RI DIRT
STORE	40311	45807.16	45257.18	921.68	*RI DIRT
STORE	40312	45823.96	45303.18	924.02	*RI DIRT
STORE	40313	45840.55	45294.47	923.08	*RI DIRT
STORE	40314	45863.86	45335.43	924.99	*RI DIRT
STORE	40315	45853.60	45354.09	925.12	*RI DIRT
STORE	40316	45872.50	45366.57	925.83	*RI DIRT
STORE	40317	45883.06	45352.64	925.86	*RI DIRT
STORE	40318	45878.72	45359.76	925.79	*C/L RR TRACK
STORE	40319	45857.98	45343.90	925.30	*C/L RR TRACK
STORE	40320	45839.09	45327.62	924.85	*C/L RR TRACK
STORE	40321	45817.89	45305.01	924.07	*C/L RR TRACK
STORE	40322	45797.89	45280.06	923.67	*C/L RR TRACK
STORE	40323	45779.16	45251.91	922.94	*C/L RR TRACK
STORE	40324	45764.24	45225.98	922.44	*C/L RR TRACK
STORE	40325	45751.13	45197.80	921.97	*C/L RR TRACK
STORE	40326	45740.38	45166.72	921.67	*C/L RR TRACK
STORE	40327	45733.29	45138.70	921.66	*C/L RR TRACK
STORE	40328	47334.84	44760.54	935.21	*RE
STORE	40329	47322.02	44773.92	935.57	*RI DIRT
STORE	40330	47314.75	44789.77	936.38	*RI DIRT
STORE	40331	47307.55	44821.39	935.37	*RI DIRT
STORE	40332	47308.42	44849.19	934.71	*RI DIRT
STORE	40333	47309.79	44885.64	935.14	*RI DIRT
STORE	40334	47295.55	44885.90	934.89	*RI DIRT
STORE	40335	47296.44	44857.53	935.10	*RI DIRT
STORE	40336	47296.86	44838.68	935.02	*RI DIRT
STORE	40337	47298.97	44809.43	936.04	*RI DIRT
STORE	40338	47303.70	44783.20	936.01	*RI DIRT
STORE	40339	47304.00	44776.61	935.79	*RI DIRT
STORE	40340	47289.62	44759.49	935.24	*RE
STORE	40341	48626.74	44724.81	942.75	*RE
STORE	40342	48616.89	44709.80	943.06	*RI DIRT
STORE	40343	48617.09	44675.77	944.10	*RI DIRT
STORE	40344	48617.17	44639.76	944.27	*RI DIRT
STORE	40345	48605.55	44639.12	944.22	*RI DIRT
STORE	40346	48605.13	44674.31	944.34	*RI DIRT
STORE	40347	48603.69	44695.00	943.43	*RI DIRT
STORE	40348	48602.94	44714.66	942.98	*RI DIRT
STORE	40349	48596.92	44724.94	942.38	*RE
STORE	40350	48693.18	44751.36	943.25	*RE
STORE	40351	48692.46	44765.62	943.44	*RI DIRT
STORE	40352	48692.46	44780.26	944.20	*RI DIRT
STORE	40353	48695.90	44800.38	944.27	*RI DIRT
STORE	40354	48694.78	44849.52	943.62	*RI DIRT
STORE	40355	48705.83	44849.73	943.80	*RI DIRT
STORE	40356	48707.18	44804.66	944.04	*RI DIRT
STORE	40357	48713.13	44777.80	944.91	*RI DIRT
STORE	40358	48715.71	44765.09	943.56	*RI DIRT
STORE	40359	48718.56	44751.37	943.49	*RE
STORE	40360	49610.47	44746.76	949.59	*RE
STORE	40361	49611.30	44761.16	950.07	*RI DIRT
STORE	40362	49611.37	44790.59	949.77	*RI DIRT
STORE	40363	49643.41	44788.55	950.10	*RI DIRT
STORE	40364	49642.93	44762.64	950.48	*RI DIRT
STORE	40365	49642.54	44746.69	949.88	*RE
STORE	40366	49667.74	44836.94	951.14	*BF

STORE	40367	49779.58	44747.70	950.86	*RE
STORE	40368	49779.51	44764.19	950.74	*COR AC RD
STORE	40369	49779.61	44809.91	950.75	*RE
STORE	40370	49780.60	44854.14	950.83	*ANG PT AC
STORE	40371	49791.37	44854.02	950.93	*ANG PT AC
STORE	40372	49791.91	44873.97	950.65	*COR AC RD
STORE	40373	49802.22	44874.11	950.61	*COR AC RD
STORE	40374	49801.80	44827.54	950.99	*RE
STORE	40375	49803.63	44765.65	950.80	*COR AC RD
STORE	40376	49804.20	44760.70	951.46	*TOP 12 IN.CULPIP
STORE	40377	49803.68	44746.92	951.11	*RE
STORE	40378	49924.04	44700.26	952.59	*RG STOP SIGN
STORE	40379	49819.48	44833.26	952.15	*BF
STORE	40380	49983.68	44745.91	952.83	*RE
STORE	40381	49964.74	44764.47	952.95	*RI DIRT
STORE	40382	49961.66	44794.04	953.08	*RI DIRT
STORE	40383	49961.09	44849.17	951.88	*RI DIRT
STORE	40384	49940.02	44849.19	952.15	*RI DIRT
STORE	40385	49938.50	44813.35	952.33	*RI DIRT
STORE	40386	49936.64	44783.49	952.77	*RI DIRT
STORE	40387	49928.98	44763.81	952.82	*RI DIRT
STORE	40388	49911.99	44745.92	952.19	*RE
STORE	40389	49906.62	44789.67	952.97	*C/L IRRI PUMP
STORE	40390	49902.94	44781.81	955.56	*COR POWER PANEL
STORE	40391	49909.18	44781.44	955.60	*COR POWER PANEL
STORE	40392	50005.31	44763.18	952.90	*EP
STORE	40393	50431.30	44755.68	955.51	*EP
STORE	40394	50849.95	44746.74	958.04	*EP
STORE	40395	51280.49	44726.52	959.06	*EP
STORE	40396	51267.61	44713.49	958.47	*RE
STORE	40397	51263.97	44729.53	959.13	*RI DIRT
STORE	40398	51264.07	44749.18	959.09	*RI DIRT
STORE	40399	51264.88	44766.97	959.11	*RI DIRT
STORE	40400	51252.61	44766.90	958.78	*RI DIRT
STORE	40401	51250.08	44739.49	958.88	*RI DIRT
STORE	40402	51246.95	44725.94	958.74	*RI DIRT
STORE	40403	51238.95	44714.50	958.35	*RE
STORE	40404	51294.74	44772.86	958.87	*BF
STORE	40405	51294.03	44786.03	962.78	*BC
STORE	40406	51293.18	44759.47	958.50	*BC
STORE	40407	51333.30	44758.56	958.36	*BC
STORE	40408	51338.10	44738.61	960.29	*TT 24IN DIA
STORE	40409	51365.24	44742.77	959.79	*TT 48IN DIA

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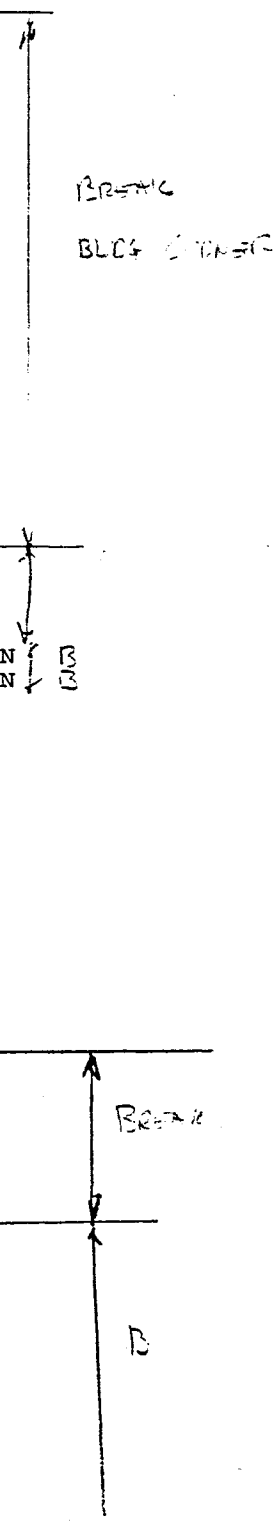
Date 3/6/98
Survey 5
DELETE COORDINATES (50000-60000)

STORE	50015	49944.31	47642.83	947.22	*
STORE	50321	55210.70	44658.21	972.79	*12IN DIP LINE
STORE	50694	46671.83	44855.63	935.39	*AC UNIT
STORE	50695	46671.87	44850.13	935.31	*AC UNIT
STORE	50176	49813.73	44877.35	950.96	*BC
STORE	50177	49789.61	44877.52	950.54	*BC
STORE	50178	49789.88	44897.84	950.97	*BC
STORE	50179	49671.84	44926.68	950.25	*BC
STORE	50180	49671.54	44884.98	950.11	*BC
STORE	50181	49686.82	44882.77	950.09	*BC
STORE	50182	49686.58	44857.65	950.21	*BC
STORE	50183	49643.25	44839.55	950.29	*BC
STORE	50184	49633.11	44839.94	950.04	*BC
STORE	50185	49632.31	44831.88	949.99	*BC
STORE	50186	49711.76	44857.80	950.77	*BC
STORE	50187	49712.06	44882.00	950.55	*BC
STORE	50188	49712.10	44884.69	950.58	*BC
STORE	50189	49712.34	44926.32	950.64	*BC
STORE	50190	49814.22	44897.57	951.11	*BC
STORE	50647	46465.41	44868.63	931.18	*BC
STORE	50648	46465.08	44827.00	931.24	*BC
STORE	50664	46621.59	44862.83	932.99	*BC
STORE	50668	46621.63	44830.30	932.62	*BC
STORE	50674	46670.02	44830.45	933.09	*BC
STORE	50676	46492.17	44868.80	931.46	*BC
STORE	50683	46669.72	44862.97	933.02	*BC
STORE	50672	46643.86	44830.37	933.04	*BF
STORE	50650	46482.33	44826.74	931.21	*BN
STORE	50651	46482.41	44820.89	931.18	*BN
STORE	50652	46490.80	44820.91	933.14	*BN+
STORE	50599	46145.35	44783.02	937.01	*C/L COR CONC BIN
STORE	50601	46144.83	44807.60	939.27	*C/L COR CONC BIN
STORE	50597	46057.83	44808.66	932.81	*CONC SLAB
STORE	50600	46146.66	44784.47	933.54	*CONC SLAB
STORE	50602	46146.22	44806.85	933.56	*CONC SLAB
STORE	50604	46170.98	44807.84	933.79	*CONC SLAB
STORE	50608	46144.69	44853.42	934.09	*CONC SLAB
STORE	50611	46237.57	44786.02	934.13	*CONC SLAB
STORE	50615	46266.35	44806.75	934.17	*CONC SLAB
STORE	50620	46238.59	44858.45	933.88	*CONC SLAB
STORE	50622	46283.43	44858.88	933.56	*CONC SLAB
STORE	50624	46328.74	44856.71	933.31	*CONC SLAB
STORE	50626	46327.88	44787.30	934.04	*CONC SLAB
STORE	50630	46365.84	44846.43	931.81	*CONC SLAB
STORE	50634	46337.15	44854.86	931.98	*CONC SLAB
STORE	50635	46334.55	44803.31	932.13	*CONC SLAB
STORE	50636	46362.31	44806.41	932.03	*CONC SLAB
STORE	50631	46364.50	44840.42	933.65	*COR CONC BASE
STORE	50632	46364.81	44826.54	933.68	*COR CONC BASE
STORE	50633	46350.97	44826.31	933.60	*COR CONC BASE
STORE	50643	46437.14	44828.08	933.65	*COR CONC BASE
STORE	50644	46423.32	44827.78	933.64	*COR CONC BASE
STORE	50645	46423.00	44841.62	933.62	*COR CONC BASE
STORE	50646	46436.78	44841.96	933.59	*COR CONC BASE
STORE	50595	46056.13	44782.21	936.12	*COR CONC BIN
STORE	50596	46055.78	44808.09	935.46	*COR CONC BIN
STORE	50603	46169.84	44807.75	939.31	*COR CONC BIN
STORE	50605	46144.49	44830.89	939.44	*COR CONC BIN
STORE	50606	46173.27	44831.14	939.12	*COR CONC BIN
STORE	50607	46144.71	44853.61	939.54	*COR CONC BIN
STORE	50610	46239.28	44783.59	937.91	*COR CONC BIN
STORE	50612	46238.98	44807.01	939.66	*COR CONC BIN
STORE	50616	46238.81	44830.39	939.53	*COR CONC BIN
STORE	50625	46332.28	44783.90	937.72	*COR CONC BIN
STORE	50627	46331.97	44798.48	937.72	*COR CONC BIN
STORE	50628	46368.88	44800.01	937.50	*COR CONC BIN



STORE	50638	46391.50	44801.02	937.43	*COR CONC BIN
STORE	50639	46418.17	44802.13	937.38	*COR CONC BIN
STORE	50641	46444.28	44802.69	937.27	*COR CONC BIN
STORE	50314	53904.81	44689.02	967.08	*COR PUMP PAD
STORE	50315	53905.01	44692.72	967.03	*COR PUMP PAD
STORE	50316	53908.79	44692.64	967.11	*COR PUMP PAD
STORE	50317	53908.58	44688.69	966.89	*COR PUMP PAD
STORE	50318	53918.10	44692.45	967.01	*EAST END ELETPAN
STORE	50432	55290.03	43988.19	975.38	*EB 1FTX1.5FT
STORE	50613	46213.63	44807.66	939.58	*END CONC BIN
STORE	50614	46264.74	44807.96	939.54	*END CONC BIN
STORE	50617	46213.19	44831.04	939.41	*END CONC BIN
STORE	50618	46264.51	44830.99	939.43	*END CONC BIN
STORE	50619	46238.72	44855.89	939.41	*END CONC BIN
STORE	50623	46330.62	44856.67	937.78	*END CONC BIN
STORE	50629	46368.01	44846.39	937.52	*END CONC BIN
STORE	50637	46391.05	44828.65	937.28	*END CONC BIN
STORE	50640	46417.34	44830.29	937.38	*END CONC BIN
STORE	50642	46443.05	44838.88	937.19	*END CONC BIN
STORE	50446	55288.98	43994.65	975.52	*EP W/1 TRANS
STORE	50445	55288.28	43776.49	974.59	*EP W/3TRANS
STORE	50598	46128.33	44776.25	936.34	*EP+
STORE	50609	46140.17	44851.49	935.74	*EP+
STORE	50621	46159.04	44928.15	941.52	*EP+
STORE	50511	56571.12	44289.72	978.46	*FA 7FT BLK
STORE	50684	46784.01	44863.73	932.98	*FC COR PARK LOT
STORE	50092	55258.80	42028.61	0.00	*FD.C.P.S.
STORE	50097	55249.33	47201.88	0.00	*FD.C.P.S.
STORE	50688	46782.17	44782.29	933.02	*FF CHLK
STORE	50649	46471.17	44826.97	931.40	*FIN FLOOR
STORE	50563	45957.22	44365.27	920.84	*FL IG
STORE	50658	46536.09	44846.69	931.38	*FLAGPOLE
STORE	50594	45886.63	44779.20	922.05	*GAS RISER
STORE	50693	46670.04	44832.30	933.17	*GL
STORE	50838	47333.24	46034.92	941.60	*IC
STORE	50839	47332.60	46035.75	941.61	*IC
STORE	50845	47465.41	46150.28	943.04	*IC
STORE	50846	47464.79	46151.07	943.05	*IC
STORE	50853	48055.14	46253.46	945.21	*IC
STORE	50854	48054.19	46253.24	945.21	*IC
STORE	50861	48084.02	46132.30	945.39	*IC
STORE	50862	48083.13	46131.78	945.39	*IC
STORE	50110	47368.78	44658.47	933.86	*IG
STORE	50111	47391.32	44658.32	934.84	*IG
STORE	50112	47365.22	44558.21	934.86	*IG
STORE	50113	47348.75	44557.38	935.14	*IG
STORE	50129	47363.38	44452.83	934.92	*IG
STORE	50130	47361.65	44354.83	935.56	*IG
STORE	50143	41973.49	44580.76	911.91	*IG
STORE	50144	41923.71	44580.95	910.87	*IG
STORE	50149	41711.19	44578.00	907.44	*IG
STORE	50156	41951.19	44481.29	911.62	*IG
STORE	50157	41969.95	44480.91	912.38	*IG
STORE	50166	41931.72	44382.39	911.22	*IG
STORE	50192	51831.15	45083.73	959.41	*IG
STORE	50201	51730.57	45095.81	958.57	*IG
STORE	50202	51716.61	45098.67	960.09	*IG
STORE	50203	51707.42	45098.31	960.11	*IG
STORE	50204	51690.54	45100.93	957.80	*IG
STORE	50205	51683.69	44996.18	958.72	*IG
STORE	50206	51703.86	44996.54	960.81	*IG
STORE	50216	51816.56	44992.25	959.95	*IG
STORE	50217	51827.59	44991.59	960.34	*IG
STORE	50220	51816.75	44895.15	960.44	*IG
STORE	50221	51805.87	44895.39	960.41	*IG
STORE	50230	51698.39	44897.24	961.49	*IG
STORE	50231	51681.03	44898.12	958.41	*IG
STORE	50232	51680.55	44799.64	958.50	*IG
STORE	50233	51700.99	44798.53	961.27	*IG
STORE	50242	51805.37	44795.51	960.81	*IG

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continue to

wash

STORE	50243	51817.51	44794.87	959.57	*IG
STORE	50244	51809.51	44300.72	961.95	*IG
STORE	50245	51797.87	44301.99	962.01	*IG
STORE	50256	51693.87	44306.48	961.71	*IG
STORE	50259	51695.87	44395.23	961.79	*IG
STORE	50271	51811.27	44397.19	961.93	*IG
STORE	50272	51802.57	44492.96	961.67	*IG
STORE	50283	51700.12	44495.43	961.62	*IG
STORE	50284	51697.47	44593.30	961.50	*IG
STORE	50295	51809.75	44591.87	961.67	*IG
STORE	50553	46001.61	44580.16	922.93	*IG
STORE	50556	46107.92	44583.49	923.09	*IG
STORE	50557	46001.67	44469.52	922.30	*IG
STORE	50558	46211.95	44585.68	924.10	*IG
STORE	50559	46211.60	44468.42	923.78	*IG
STORE	50560	46108.60	44467.39	922.98	*IG
STORE	50561	46001.51	44365.49	921.99	*IG
STORE	50562	46107.93	44366.41	922.67	*IG
STORE	50564	46211.22	44367.79	923.60	*IG
STORE	50565	46001.74	44264.13	922.04	*IG
STORE	50566	46206.83	44267.57	923.73	*IG
STORE	50567	46101.76	44264.97	922.56	*IG
STORE	50568	46002.37	44159.48	921.57	*IG
STORE	50569	46101.55	44161.93	922.36	*IG
STORE	50570	46205.49	44165.58	923.27	*IG
STORE	50575	50416.38	44435.11	954.41	*IG
STORE	50576	50419.81	44540.80	954.74	*IG
STORE	50577	50516.84	44431.96	955.06	*IG
STORE	50578	50520.50	44538.34	955.33	*IG
STORE	50579	50619.57	44428.52	955.56	*IG
STORE	50580	50621.53	44534.52	955.74	*IG
STORE	50581	50720.62	44425.49	956.09	*IG
STORE	50582	50720.45	44532.49	956.21	*IG
STORE	50583	50821.25	44422.09	956.59	*IG
STORE	50584	50821.29	44529.64	956.75	*IG
STORE	50585	50922.43	44418.91	957.09	*IG
STORE	50586	50923.42	44529.33	957.29	*IG
STORE	50587	51023.58	44415.13	957.68	*IG
STORE	50588	51024.66	44527.81	957.72	*IG
STORE	50590	45849.51	44788.78	922.22	*IG
STORE	50591	45848.82	44796.79	924.33	*IG
STORE	50592	45849.46	44803.70	924.41	*IG
STORE	50593	45852.79	44813.68	932.93	*IG
STORE	50696	55622.55	44448.26	972.72	*IG
STORE	50697	55621.01	44353.71	972.93	*IG
STORE	50698	55620.53	44302.03	975.42	*IG
STORE	50699	55620.07	44293.71	979.75	*IG
STORE	50700	55718.32	44291.69	979.80	*IG
STORE	50701	55718.45	44303.22	975.48	*IG
STORE	50702	55717.76	44353.96	974.74	*IG
STORE	50703	55716.33	44449.97	974.39	*IG
STORE	50704	55817.51	44451.79	974.95	*IG
STORE	50705	55818.75	44354.60	975.45	*IG
STORE	50706	55820.79	44303.48	976.06	*IG
STORE	50707	55820.96	44292.45	979.71	*IG
STORE	50708	55922.61	44294.91	979.51	*IG
STORE	50709	55922.31	44303.36	976.42	*IG
STORE	50710	55922.23	44355.25	975.93	*IG
STORE	50711	55920.81	44453.96	975.46	*IG
STORE	50712	56020.46	44455.77	976.20	*IG
STORE	50713	56021.83	44354.71	976.52	*IG
STORE	50714	56023.41	44303.52	976.98	*IG
STORE	50715	56023.48	44294.56	979.52	*IG
STORE	50716	56120.42	44294.78	979.87	*IG
STORE	50717	56120.31	44301.85	977.68	*IG
STORE	50718	56121.16	44356.92	976.75	*IG
STORE	50719	56122.26	44456.33	976.77	*IG
STORE	50720	56223.34	44458.02	977.35	*IG
STORE	50721	56217.73	44354.72	977.44	*IG
STORE	50722	56215.75	44301.52	977.79	*IG

STORE	50723	56215.46	44294.89	979.60	*IG
STORE	50749	50564.66	47511.38	946.82	*IG
STORE	50750	50567.18	47610.18	947.69	*IG
STORE	50761	50554.91	47277.46	945.66	*IG
STORE	50762	50552.06	47181.91	945.26	*IG
STORE	50763	50785.47	47178.91	946.24	*IG
STORE	50764	50786.58	47251.05	945.87	*IG
STORE	50781	50794.22	47501.81	947.12	*IG
STORE	50782	50804.65	47601.11	948.02	*IG
STORE	50783	51011.74	47601.37	948.50	*IG
STORE	50784	51008.09	47499.77	947.66	*IG
STORE	50801	50999.06	47250.73	946.44	*IG
STORE	50802	50995.67	47156.20	947.12	*IG
STORE	50803	51204.45	47591.46	948.69	*IG
STORE	50804	51204.19	47488.54	947.95	*IG
STORE	50820	51197.61	47236.36	946.82	*IG
STORE	50821	51195.79	47150.20	947.64	*IG
STORE	50822	51406.23	47177.78	948.28	*IG
STORE	50823	51408.06	47251.66	947.74	*IG
STORE	50824	51410.35	47285.33	948.12	*IG
STORE	50831	51411.78	47376.64	948.28	*IG
STORE	50832	51415.37	47477.68	948.62	*IG
STORE	50833	51416.64	47591.36	949.10	*IG
STORE	50589	45849.08	44778.01	921.77	*IG AT FL 8FT BLK
STORE	50744	50561.21	47400.03	940.38	*IG C/L
STORE	50775	50790.17	47395.23	939.38	*IG C/L
STORE	50789	51001.05	47388.78	939.25	*IG C/L
STORE	50809	51196.76	47381.55	940.36	*IG C/L
STORE	50554	45958.35	44578.59	921.95	*IG FL 6FT CLK
STORE	50555	45958.58	44472.45	921.64	*IG FL 6FT CLK
STORE	50777	50791.02	47419.03	941.93	*IG GB
STORE	50100	47241.21	44658.66	932.74	*IG TOE
STORE	50107	47335.02	44659.24	934.23	*IG TOE
STORE	50108	47345.07	44658.22	934.23	*IG TOE
STORE	50119	47247.46	44556.61	932.27	*IG TOE
STORE	50120	47240.34	44455.94	931.91	*IG TOE
STORE	50126	47333.45	44454.37	934.40	*IG TOE
STORE	50127	47336.60	44454.27	934.42	*IG TOE
STORE	50132	47338.45	44354.71	935.28	*IG TOE
STORE	50138	47244.29	44355.32	931.96	*IG TOE
STORE	50139	42042.25	44580.11	910.45	*IG TOE
STORE	50142	42017.43	44580.52	911.99	*IG TOE
STORE	50145	41798.69	44581.28	910.54	*IG TOE
STORE	50148	41745.80	44581.26	909.70	*IG TOE
STORE	50150	41729.04	44479.27	907.24	*IG TOE
STORE	50153	41814.01	44482.70	910.65	*IG TOE
STORE	50154	41890.03	44481.74	910.67	*IG TOE
STORE	50158	42018.34	44481.14	912.54	*IG TOE
STORE	50161	42040.39	44479.58	911.01	*IG TOE
STORE	50162	42038.50	44381.80	911.06	*IG TOE
STORE	50165	42016.51	44382.79	912.48	*IG TOE
STORE	50167	41822.23	44383.61	910.91	*IG TOE
STORE	50170	41743.37	44379.91	905.69	*IG TOE
STORE	50171	41758.03	44662.12	910.17	*IG TOE
STORE	50172	41773.83	44673.46	911.43	*IG TOE
STORE	50173	41785.51	44660.55	911.13	*IG TOE
STORE	50534	56313.82	44819.32	973.21	*IG TOE
STORE	50535	56312.20	44820.72	973.18	*IG TOE
STORE	50536	56306.87	44825.28	975.15	*IG TOE
STORE	50537	56280.11	44782.92	973.12	*IG TOE
STORE	50538	56278.62	44784.19	973.18	*IG TOE
STORE	50539	56273.37	44789.40	974.87	*IG TOE
STORE	50544	56247.48	44747.15	973.18	*IG TOE
STORE	50545	56246.07	44748.42	973.18	*IG TOE
STORE	50546	56240.75	44753.60	974.99	*IG TOE
STORE	50547	56211.70	44711.86	973.48	*IG TOE
STORE	50548	56213.67	44710.43	973.27	*IG TOE
STORE	50549	56206.53	44716.05	975.16	*IG TOE
STORE	50745	50561.51	47415.85	940.69	*IG TOE
STORE	50748	50563.68	47456.54	947.29	*IG TOE

Wash

STORE	50751	50562.38	47383.48	940.68	*IG TOE
STORE	50754	50560.84	47342.01	943.20	*IG TOE
STORE	50755	50560.22	47338.05	942.84	*IG TOE
STORE	50758	50558.75	47329.87	947.59	*IG TOE
STORE	50760	50558.44	47309.06	945.29	*IG TOE
STORE	50765	50787.65	47301.05	945.90	*IG TOE
STORE	50767	50787.03	47322.19	947.82	*IG TOE
STORE	50769	50787.36	47329.62	942.94	*IG TOE
STORE	50770	50787.04	47333.85	942.84	*IG TOE
STORE	50772	50787.44	47342.87	949.26	*IG TOE
STORE	50774	50789.08	47371.68	940.49	*IG TOE
STORE	50776	50791.05	47412.22	940.36	*IG TOE
STORE	50780	50792.63	47448.89	947.72	*IG TOE
STORE	50785	51002.83	47442.91	948.22	*IG TOE
STORE	50786	51002.61	47440.31	950.62	*IG TOE
STORE	50788	51001.91	47405.39	940.22	*IG TOE
STORE	50790	50998.23	47368.08	940.14	*IG TOE
STORE	50792	51002.52	47348.88	949.04	*IG TOE
STORE	50793	51002.31	47336.25	949.30	*IG TOE
STORE	50795	51001.24	47327.56	943.21	*IG TOE
STORE	50796	50999.96	47322.72	943.21	*IG TOE
STORE	50798	51000.68	47315.26	948.20	*IG TOE
STORE	50800	51000.20	47295.72	946.69	*IG TOE
STORE	50805	51204.22	47436.68	948.63	*IG TOE
STORE	50808	51202.98	47401.37	941.11	*IG TOE
STORE	50810	51196.98	47362.17	940.95	*IG TOE
STORE	50814	51199.39	47321.28	943.10	*IG TOE
STORE	50815	51197.69	47315.47	943.12	*IG TOE
STORE	50817	51197.62	47308.46	948.63	*IG TOE
STORE	50819	51197.29	47288.85	947.08	*IG TOE
STORE	50825	51409.88	47303.07	948.55	*IG TOE
STORE	50827	51409.68	47309.14	943.52	*IG TOE
STORE	50828	51406.11	47314.84	943.37	*IG TOE
STORE	50830	51408.63	47322.18	949.19	*IG TOE
STORE	50835	47330.71	46038.71	942.99	*IG TOE
STORE	50841	47337.35	46031.15	941.04	*IG TOE
STORE	50842	47460.06	46156.40	943.59	*IG TOE
STORE	50848	47469.47	46145.65	942.55	*IG TOE
STORE	50849	48047.48	46250.91	944.42	*IG TOE
STORE	50856	48061.95	46255.67	944.76	*IG TOE
STORE	50857	48076.73	46130.33	943.78	*IG TOE
STORE	50864	48089.02	46133.22	945.05	*IG TOE
STORE	50101	47269.78	44659.38	934.56	*IG TOP
STORE	50106	47329.55	44659.70	935.20	*IG TOP
STORE	50109	47355.18	44658.02	935.00	*IG TOP
STORE	50118	47269.93	44556.68	935.19	*IG TOP
STORE	50121	47268.06	44455.23	935.25	*IG TOP
STORE	50128	47340.52	44453.90	935.13	*IG TOP
STORE	50131	47341.80	44354.96	935.76	*IG TOP
STORE	50137	47265.14	44354.89	935.03	*IG TOP
STORE	50140	42033.45	44580.53	912.92	*IG TOP
STORE	50141	42023.68	44580.48	912.91	*IG TOP
STORE	50146	41783.09	44579.30	913.28	*IG TOP
STORE	50147	41753.97	44581.30	913.08	*IG TOP
STORE	50151	41742.15	44482.81	913.18	*IG TOP
STORE	50152	41799.64	44482.64	912.69	*IG TOP
STORE	50155	41912.01	44482.04	911.69	*IG TOP
STORE	50159	42024.53	44480.95	913.07	*IG TOP
STORE	50160	42032.85	44480.37	912.82	*IG TOP
STORE	50163	42031.46	44382.31	912.94	*IG TOP
STORE	50164	42020.54	44382.97	912.93	*IG TOP
STORE	50168	41783.73	44383.54	913.31	*IG TOP
STORE	50169	41759.57	44382.65	913.28	*IG TOP
STORE	50174	41773.61	44661.44	912.61	*IG TOP
STORE	50175	41766.25	44662.29	912.53	*IG TOP
STORE	50532	56317.73	44813.48	976.79	*IG TOP
STORE	50533	56308.62	44822.51	975.98	*IG TOP
STORE	50540	56275.84	44786.62	976.12	*IG TOP
STORE	50541	56284.61	44778.68	976.53	*IG TOP
STORE	50542	56243.05	44750.82	976.14	*IG TOP

STORE	50543	56252.46	44742.95	976.50	*IG TOP
STORE	50550	56208.85	44714.22	976.29	*IG TOP
STORE	50551	56216.76	44707.49	976.37	*IG TOP
STORE	50552	56206.08	44704.29	975.95	*IG TOP
STORE	50746	50562.61	47439.37	949.93	*IG TOP
STORE	50747	50563.96	47453.77	949.76	*IG TOP
STORE	50752	50561.05	47364.26	948.42	*IG TOP
STORE	50753	50561.40	47347.64	949.42	*IG TOP
STORE	50756	50558.70	47333.29	948.41	*IG TOP
STORE	50757	50558.21	47331.55	948.47	*IG TOP
STORE	50759	50558.55	47311.99	946.55	*IG TOP
STORE	50766	50787.05	47304.42	947.19	*IG TOP
STORE	50768	50786.52	47324.30	948.66	*IG TOP
STORE	50771	50787.26	47341.17	949.93	*IG TOP
STORE	50773	50788.99	47356.80	948.76	*IG TOP
STORE	50778	50791.58	47431.47	949.99	*IG TOP
STORE	50779	50792.54	47446.31	950.07	*IG TOP
STORE	50787	51002.38	47424.39	950.46	*IG TOP
STORE	50791	51003.07	47350.46	949.55	*IG TOP
STORE	50794	51002.27	47334.11	950.15	*IG TOP
STORE	50797	51000.40	47316.80	948.90	*IG TOP
STORE	50799	51000.19	47297.23	947.54	*IG TOP
STORE	50806	51203.82	47433.02	951.42	*IG TOP
STORE	50807	51203.44	47418.77	951.09	*IG TOP
STORE	50811	51200.87	47342.41	949.49	*IG TOP
STORE	50812	51199.84	47328.80	949.41	*IG TOP
STORE	50813	51200.22	47327.24	950.18	*IG TOP
STORE	50816	51197.88	47310.19	949.41	*IG TOP
STORE	50818	51197.23	47290.33	947.83	*IG TOP
STORE	50826	51409.82	47304.59	949.05	*IG TOP
STORE	50829	51408.47	47319.74	950.24	*IG TOP
STORE	50847	47467.66	46147.64	944.36	*IG TOP
STORE	50850	48050.78	46252.34	946.68	*IG TOP
STORE	50855	48057.89	46254.32	946.47	*IG TOP
STORE	50858	48079.88	46131.43	947.02	*IG TOP
STORE	50863	48087.07	46132.78	946.86	*IG TOP
STORE	50840	47335.97	46032.88	943.36	*IG TOP
STORE	50320	53913.01	44681.89	967.24	*INV 12IN OUTFALL
STORE	50724	46863.66	48219.59	928.23	*INV 5FTSTEELPIPE
STORE	50725	46867.07	48225.21	927.89	*INV 5FTSTEELPIPE
STORE	50726	46871.17	48230.75	927.74	*INV 5FTSTEELPIPE
STORE	50727	46875.77	48235.35	925.55	*INV 5FTSTEELPIPE
STORE	50728	46888.28	48207.42	928.68	*INV 5FTSTEELPIPE
STORE	50729	46890.72	48212.83	928.64	*INV 5FTSTEELPIPE
STORE	50730	46893.08	48218.20	928.60	*INV 5FTSTEELPIPE
STORE	50731	46901.31	48229.72	925.78	*INV 5FTSTEELPIPE
STORE	50732	46903.86	48234.44	926.32	*INV 5FTSTEELPIPE
STORE	50733	46870.84	48241.64	924.93	*INV 5FTSTEELPIPE
STORE	50669	46599.43	44859.01	931.46	*PAVEMENT
STORE	50670	46599.77	44822.29	931.74	*PAVEMENT
STORE	50296	51806.48	44605.27	961.39	*PT
STORE	50298	51806.07	44581.01	961.54	*PT
STORE	50300	51806.38	44554.83	961.50	*PT
STORE	50305	51805.07	44503.91	961.26	*PT
STORE	50306	51699.36	44505.92	961.50	*PT
STORE	50308	51699.25	44531.17	961.47	*PT
STORE	50309	51699.92	44556.53	961.24	*PT
STORE	50311	51700.67	44582.01	961.07	*PT
STORE	50313	51701.97	44606.54	960.90	*PT
STORE	50422	55706.79	44520.82	974.32	*PT 18 FT HIGH
STORE	50423	55649.17	44521.10	973.99	*PT 18 FT HIGH
STORE	50424	55586.32	44519.86	972.82	*PT 18 FT HIGH
STORE	50425	55528.07	44520.03	972.39	*PT 18 FT HIGH
STORE	50426	55466.82	44519.36	972.25	*PT 18 FT HIGH
STORE	50427	55407.04	44519.98	972.43	*PT 18 FT HIGH
STORE	50428	55347.74	44475.54	973.16	*PT 18 FT HIGH
STORE	50429	55346.52	44414.55	972.76	*PT 18 FT HIGH
STORE	50430	55346.08	44354.80	972.78	*PT 18 FT HIGH
STORE	50416	56005.74	44533.31	975.78	*PT 18FT HIGH
STORE	50417	55944.12	44533.10	975.86	*PT 18FT HIGH

WASH

STORE	50418	55885.02	44532.65	975.32	*PT 18FT HIGH
STORE	50419	55827.18	44522.03	975.18	*PT 18FT HIGH
STORE	50420	55767.46	44521.68	974.73	*PT 18FT HIGH
STORE	50512	56479.55	44534.85	978.34	*PT 18FT HIGH
STORE	50513	56423.01	44535.65	978.26	*PT 18FT HIGH
STORE	50514	56362.69	44534.66	977.77	*PT 18FT HIGH
STORE	50515	56302.49	44534.17	977.44	*PT 18FT HIGH
STORE	50516	56244.70	44534.47	976.92	*PT 18FT HIGH
STORE	50517	56185.28	44534.04	976.74	*PT 18FT HIGH
STORE	50518	56124.88	44534.48	976.51	*PT 18FT HIGH
STORE	50519	56063.47	44533.54	976.01	*PT 18FT HIGH
STORE	50332	55356.95	44308.24	973.69	*PT 7FT HI
STORE	50333	55356.98	44317.42	973.66	*PT 7FT HI
STORE	50334	55356.87	44326.79	973.63	*PT 7FT HI
STORE	50335	55357.28	44335.54	973.34	*PT 7FT HI
STORE	50336	55357.40	44345.71	973.23	*PT 7FT HI
STORE	50337	55356.93	44353.13	973.12	*PT 7FT HI
STORE	50338	55357.12	44364.17	973.16	*PT 7FT HI
STORE	50339	55356.81	44371.28	973.12	*PT 7FT HI
STORE	50340	55356.77	44380.92	973.24	*PT 7FT HI
STORE	50341	55356.60	44389.04	973.12	*PT 7FT HI
STORE	50342	55356.83	44399.70	973.42	*PT 7FT HI
STORE	50343	55356.43	44408.37	973.24	*PT 7FT HI
STORE	50344	55356.99	44419.50	973.48	*PT 7FT HI
STORE	50345	55356.80	44427.09	973.38	*PT 7FT HI
STORE	50346	55356.84	44436.70	973.41	*PT 7FT HI
STORE	50347	55357.65	44446.33	973.32	*PT 7FT HI
STORE	50348	55357.05	44456.31	973.46	*PT 7FT HI
STORE	50349	55357.12	44473.86	973.37	*PT 7FT HI
STORE	50350	55406.52	44507.86	972.18	*PT 7FT HI
STORE	50351	55415.27	44507.87	972.04	*PT 7FT HI
STORE	50352	55423.96	44508.57	972.34	*PT 7FT HI
STORE	50353	55433.66	44508.11	972.09	*PT 7FT HI
STORE	50354	55442.05	44508.80	972.32	*PT 7FT HI
STORE	50355	55452.05	44508.90	972.45	*PT 7FT HI
STORE	50356	55460.32	44508.48	972.51	*PT 7FT HI
STORE	50357	55468.88	44508.78	972.31	*PT 7FT HI
STORE	50358	55477.90	44507.86	972.62	*PT 7FT HI
STORE	50359	55486.57	44508.44	972.41	*PT 7FT HI
STORE	50360	55495.29	44508.55	972.57	*PT 7FT HI
STORE	50361	55504.73	44508.97	972.45	*PT 7FT HI
STORE	50362	55513.04	44509.13	972.53	*PT 7FT HI
STORE	50363	55522.07	44508.53	972.63	*PT 7FT HI
STORE	50364	55530.63	44508.71	972.85	*PT 7FT HI
STORE	50365	55541.27	44508.57	972.60	*PT 7FT HI
STORE	50366	55549.63	44508.73	972.82	*PT 7FT HI
STORE	50367	55558.86	44508.72	972.76	*PT 7FT HI
STORE	50368	55567.92	44508.61	972.71	*PT 7FT HI
STORE	50369	55576.90	44509.63	972.48	*PT 7FT HI
STORE	50370	55586.32	44509.16	972.81	*PT 7FT HI
STORE	50371	55595.38	44509.31	972.80	*PT 7FT HI
STORE	50372	55604.76	44509.20	972.90	*PT 7FT HI
STORE	50373	55613.21	44509.89	972.65	*PT 7FT HI
STORE	50374	55623.66	44510.41	972.88	*PT 7FT HI
STORE	50375	55632.74	44510.19	972.90	*PT 7FT HI
STORE	50376	55641.70	44509.97	973.27	*PT 7FT HI
STORE	50377	55650.00	44510.04	973.62	*PT 7FT HI
STORE	50378	55659.06	44509.90	973.99	*PT 7FT HI
STORE	50379	55668.24	44510.66	973.98	*PT 7FT HI
STORE	50380	55676.87	44510.15	974.35	*PT 7FT HI
STORE	50381	55685.80	44510.45	974.29	*PT 7FT HI
STORE	50382	55697.32	44510.50	974.45	*PT 7FT HI
STORE	50383	55704.86	44510.65	974.47	*PT 7FT HI
STORE	50384	55713.24	44510.08	974.49	*PT 7FT HI
STORE	50385	55722.31	44511.22	974.14	*PT 7FT HI
STORE	50386	55731.83	44510.74	974.37	*PT 7FT HI
STORE	50387	55740.49	44511.02	974.20	*PT 7FT HI
STORE	50388	55749.93	44511.20	974.47	*PT 7FT HI
STORE	50389	55767.02	44510.90	974.84	*PT 7FT HI
STORE	50390	55774.21	44511.68	974.83	*PT 7FT HI

STORE	50391	55785.11	44511.62	974.96	*PT 7FT HI
STORE	50392	55795.42	44511.75	975.00	*PT 7FT HI
STORE	50393	55804.43	44511.51	975.03	*PT 7FT HI
STORE	50394	55812.70	44512.23	974.98	*PT 7FT HI
STORE	50395	55822.51	44512.52	975.15	*PT 7FT HI
STORE	50396	55830.57	44512.14	975.02	*PT 7FT HI
STORE	50397	55840.05	44511.77	975.03	*PT 7FT HI
STORE	50398	55848.60	44511.87	975.06	*PT 7FT HI
STORE	50399	55860.54	44520.42	975.10	*PT 7FT HI
STORE	50400	55869.19	44521.36	975.27	*PT 7FT HI
STORE	50401	55877.97	44521.28	975.40	*PT 7FT HI
STORE	50402	55886.88	44522.07	975.36	*PT 7FT HI
STORE	50403	55895.84	44521.84	975.50	*PT 7FT HI
STORE	50404	55905.26	44521.28	975.38	*PT 7FT HI
STORE	50405	55915.15	44521.21	975.41	*PT 7FT HI
STORE	50406	55924.06	44521.38	975.60	*PT 7FT HI
STORE	50407	55933.08	44520.88	975.64	*PT 7FT HI
STORE	50408	55941.63	44520.70	975.67	*PT 7FT HI
STORE	50409	55949.90	44521.36	975.70	*PT 7FT HI
STORE	50410	55958.67	44522.12	975.85	*PT 7FT HI
STORE	50411	55968.45	44522.86	976.11	*PT 7FT HI
STORE	50412	55977.17	44522.43	976.05	*PT 7FT HI
STORE	50413	55986.92	44521.41	975.76	*PT 7FT HI
STORE	50414	55995.57	44522.93	975.93	*PT 7FT HI
STORE	50415	56005.14	44522.03	975.59	*PT 7FT HI
STORE	50453	56013.35	44521.86	975.65	*PT 7FT HIGH
STORE	50454	56031.76	44521.27	975.61	*PT 7FT HIGH
STORE	50455	56040.42	44521.84	975.56	*PT 7FT HIGH
STORE	50456	56049.07	44521.94	975.92	*PT 7FT HIGH
STORE	50457	56058.28	44522.34	976.09	*PT 7FT HIGH
STORE	50458	56066.98	44522.47	976.06	*PT 7FT HIGH
STORE	50459	56076.55	44521.95	976.15	*PT 7FT HIGH
STORE	50460	56085.15	44521.53	976.10	*PT 7FT HIGH
STORE	50461	56093.61	44521.79	976.33	*PT 7FT HIGH
STORE	50462	56103.16	44521.95	976.09	*PT 7FT HIGH
STORE	50463	56112.41	44522.38	976.16	*PT 7FT HIGH
STORE	50464	56120.93	44522.58	976.19	*PT 7FT HIGH
STORE	50465	56130.47	44522.50	976.30	*PT 7FT HIGH
STORE	50466	56139.42	44522.82	976.35	*PT 7FT HIGH
STORE	50467	56148.72	44522.68	976.43	*PT 7FT HIGH
STORE	50468	56157.76	44522.56	976.58	*PT 7FT HIGH
STORE	50469	56165.59	44523.06	976.65	*PT 7FT HIGH
STORE	50470	56175.08	44523.71	976.59	*PT 7FT HIGH
STORE	50471	56183.69	44523.18	976.75	*PT 7FT HIGH
STORE	50472	56192.52	44523.27	976.69	*PT 7FT HIGH
STORE	50473	56202.98	44522.80	976.77	*PT 7FT HIGH
STORE	50474	56212.04	44523.13	976.82	*PT 7FT HIGH
STORE	50475	56222.02	44523.31	976.76	*PT 7FT HIGH
STORE	50476	56230.74	44523.41	976.79	*PT 7FT HIGH
STORE	50477	56240.27	44522.77	976.70	*PT 7FT HIGH
STORE	50478	56248.19	44523.45	976.79	*PT 7FT HIGH
STORE	50479	56257.24	44523.21	976.78	*PT 7FT HIGH
STORE	50480	56265.69	44523.09	976.56	*PT 7FT HIGH
STORE	50481	56276.44	44523.68	976.74	*PT 7FT HIGH
STORE	50482	56286.21	44523.50	976.97	*PT 7FT HIGH
STORE	50483	56298.53	44523.67	977.30	*PT 7FT HIGH
STORE	50484	56309.10	44524.09	977.40	*PT 7FT HIGH
STORE	50485	56320.47	44523.57	977.42	*PT 7FT HIGH
STORE	50486	56330.61	44523.38	977.61	*PT 7FT HIGH
STORE	50487	56341.28	44523.89	977.76	*PT 7FT HIGH
STORE	50488	56353.07	44523.87	977.76	*PT 7FT HIGH
STORE	50489	56364.90	44523.65	977.84	*PT 7FT HIGH
STORE	50490	56375.59	44524.46	977.82	*PT 7FT HIGH
STORE	50491	56384.54	44524.27	977.85	*PT 7FT HIGH
STORE	50492	56392.98	44523.36	977.80	*PT 7FT HIGH
STORE	50493	56402.47	44524.41	978.10	*PT 7FT HIGH
STORE	50494	56411.64	44524.43	978.07	*PT 7FT HIGH
STORE	50495	56423.75	44523.80	978.06	*PT 7FT HIGH
STORE	50496	56431.43	44524.58	978.23	*PT 7FT HIGH
STORE	50497	56441.22	44523.84	978.05	*PT 7FT HIGH

STORE	50498	56450.49	44524.06	978.08	*PT 7FT HIGH
STORE	50499	56457.29	44524.48	978.09	*PT 7FT HIGH
STORE	50500	56467.69	44524.09	978.18	*PT 7FT HIGH
STORE	50501	56476.40	44524.07	978.15	*PT 7FT HIGH
STORE	50502	56487.79	44523.80	978.09	*PT 7FT HIGH
STORE	50503	56497.16	44523.06	978.16	*PT 7FT HIGH
STORE	50504	56506.68	44523.93	978.17	*PT 7FT HIGH
STORE	50452	55221.01	46167.58	972.04	*PT STUMP
STORE	50301	51802.13	44540.18	968.99	*PT+
STORE	50302	51806.02	44528.20	970.16	*PT+
STORE	50070	49941.82	42891.47	949.87	*R1
~~STORE~~	~~50087~~	~~57894.50~~	~~44616.18~~	~~0.00~~	~~*R1~~
STORE	50104	47326.55	44659.84	934.72	*R3
STORE	50115	47326.06	44557.85	934.81	*R3
STORE	50124	47325.69	44454.54	934.91	*R3
STORE	50134	47325.21	44354.31	935.02	*R3
STORE	50194	51809.31	45086.55	957.76	*R3
STORE	50195	51783.58	45090.31	958.36	*R3
STORE	50198	51767.52	45091.66	958.36	*R3
STORE	50199	51741.93	45096.38	957.87	*R3
STORE	50208	51730.06	44996.25	958.73	*R3
STORE	50209	51755.81	44995.40	959.27	*R3
STORE	50213	51770.62	44993.75	959.25	*R3
STORE	50214	51797.83	44992.55	958.76	*R3
STORE	50223	51794.21	44895.73	959.63	*R3
STORE	50224	51756.20	44897.12	960.23	*R3
STORE	50227	51752.29	44896.83	960.21	*R3
STORE	50228	51726.24	44897.15	959.56	*R3
STORE	50235	51724.12	44797.88	960.12	*R3
STORE	50236	51750.19	44797.11	960.72	*R3
STORE	50239	51754.12	44797.07	960.74	*R3
STORE	50240	51792.19	44796.34	960.15	*R3
STORE	50248	51781.53	44301.49	960.63	*R3
STORE	50249	51754.63	44303.10	961.09	*R3
STORE	50252	51739.64	44303.90	961.08	*R3
STORE	50253	51713.58	44304.04	960.61	*R3
STORE	50262	51715.66	44397.37	960.44	*R3
STORE	50263	51751.61	44398.42	961.12	*R3
STORE	50267	51756.28	44397.93	960.90	*R3
STORE	50268	51783.53	44397.75	960.43	*R3
STORE	50275	51785.64	44493.11	960.27	*R3
STORE	50276	51758.77	44494.18	960.73	*R3
STORE	50279	51754.80	44494.33	960.85	*R3
STORE	50280	51717.74	44494.68	960.25	*R3
STORE	50287	51719.81	44591.67	960.04	*R3
STORE	50288	51757.62	44592.08	960.67	*R3
STORE	50291	51761.88	44592.05	960.57	*R3
STORE	50292	51787.86	44592.30	960.06	*R3
~~STORE~~	~~50741~~	~~50584.94~~	~~47441.12~~	~~949.58~~	~~*RANDOM PT 741~~
STORE	50742	51003.18	47438.18	950.36	*RANDOM PT 742 Wash
~~STORE~~	~~50743~~	~~51413.74~~	~~47419.04~~	~~948.36~~	~~*RANDOM PT~~ 743
STORE	50102	47297.18	44659.37	935.60	*RB
STORE	50105	47327.18	44659.81	935.20	*RB
STORE	50114	47326.66	44557.84	935.31	*RB
STORE	50117	47296.74	44557.33	935.63	*RB
STORE	50122	47296.36	44455.14	935.82	*RB
STORE	50125	47326.30	44454.48	935.42	*RB
STORE	50133	47325.77	44354.25	935.50	*RB
STORE	50136	47295.78	44354.74	935.98	*RB
STORE	50193	51809.91	45086.62	958.24	*RB
STORE	50196	51782.97	45090.45	958.84	*RB
STORE	50197	51768.10	45091.54	958.87	*RB
STORE	50200	51741.44	45096.54	958.30	*RB
STORE	50207	51729.48	44996.19	959.20	*RB
STORE	50210	51756.41	44995.38	959.76	*RB
STORE	50212	51770.11	44994.08	959.76	*RB
STORE	50215	51798.31	44992.65	959.20	*RB
STORE	50222	51794.87	44895.77	960.07	*RB
STORE	50225	51755.66	44897.04	960.72	*RB
STORE	50226	51752.91	44896.96	960.69	*RB

B Gutter

B Back of curb

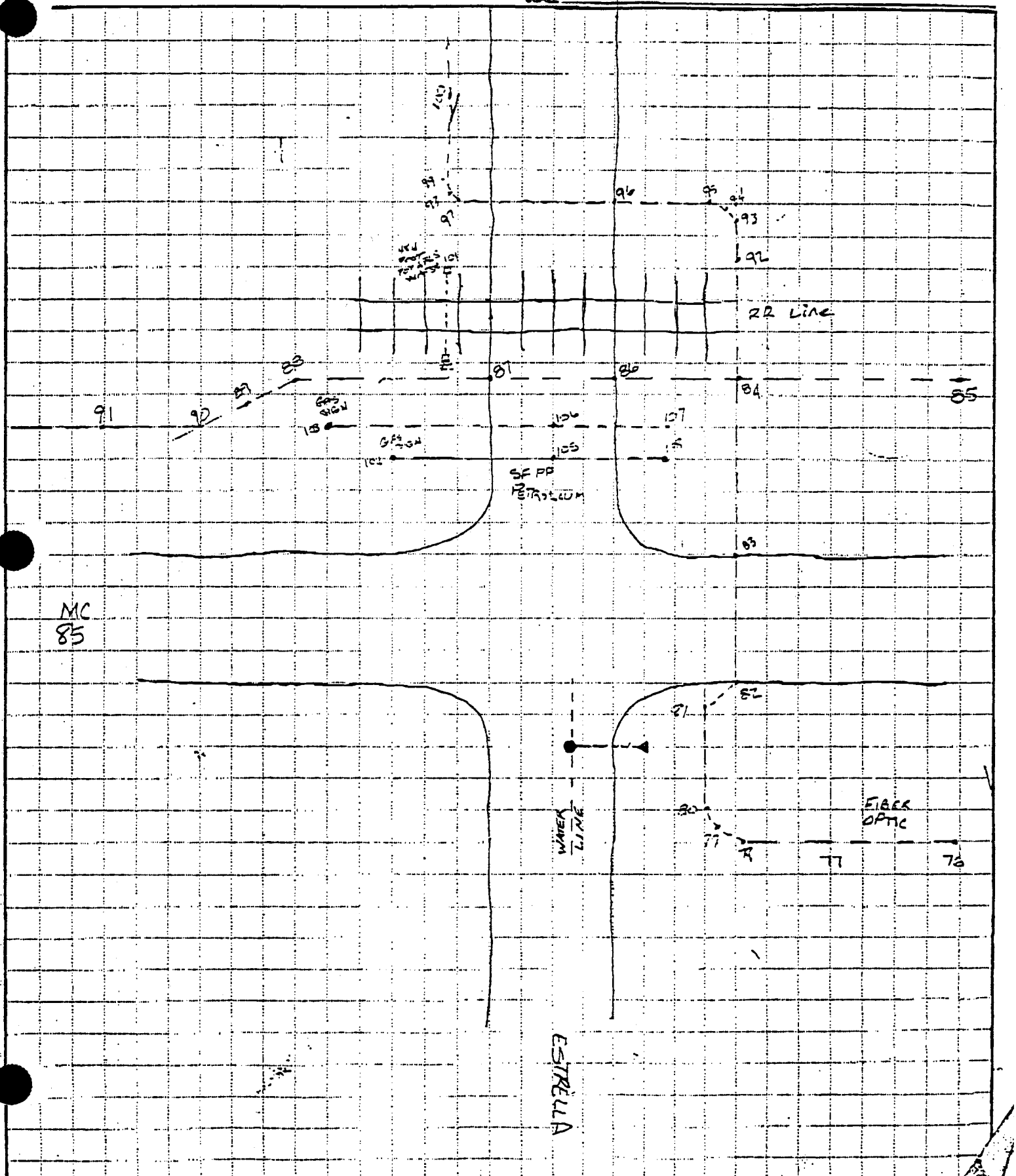
STORE	50229	51725.70	44897.29	960.06	*RB
STORE	50234	51723.59	44797.85	960.60	*RB
STORE	50237	51750.69	44797.05	961.19	*RB
STORE	50238	51753.42	44796.99	961.20	*RB
STORE	50241	51792.79	44796.31	960.62	*RB
STORE	50247	51782.09	44301.48	961.08	*RB
STORE	50250	51754.01	44302.99	961.60	*RB
STORE	50251	51740.12	44304.04	961.57	*RB
STORE	50254	51713.00	44303.92	961.03	*RB
STORE	50261	51714.97	44397.24	960.87	*RB
STORE	50264	51752.20	44398.32	961.58	*RB
STORE	50266	51755.68	44397.99	961.40	*RB
STORE	50269	51784.09	44397.63	960.90	*RB
STORE	50274	51786.22	44493.02	960.72	*RB
STORE	50277	51758.19	44494.33	961.21	*RB
STORE	50278	51755.31	44494.33	961.35	*RB
STORE	50281	51717.11	44494.76	960.71	*RB
STORE	50286	51719.20	44591.59	960.52	*RB
STORE	50289	51758.27	44592.04	961.18	*RB
STORE	50290	51761.12	44592.02	961.09	*RB
STORE	50293	51788.45	44592.22	960.50	*RB
STORE	50211	51772.55	45011.64	959.57	*RB PC
STORE	50257	51740.44	44322.85	961.58	*RB PC
STORE	50218	51759.09	44944.58	960.17	*RB PRC
STORE	50258	51747.74	44371.24	961.59	*RB PRC
STORE	50219	51756.19	44921.28	960.50	*RB PT
STORE	50265	51753.00	44414.43	961.41	*RB PT
STORE	50437	55316.94	43950.25	974.41	*RE
STORE	50440	55317.72	43924.92	974.35	*RE
STORE	50438	55336.40	43949.60	974.94	*RE AT F/L
STORE	50439	55336.47	43924.84	974.78	*RE AT F/L
STORE	50433	55270.04	43960.02	974.84	*RE PC
STORE	50435	55282.94	43949.91	974.22	*RE PC
STORE	50442	55282.08	43924.76	974.32	*RE PC
STORE	50444	55270.49	43914.52	974.38	*RE PC
STORE	50434	55276.45	43951.89	974.35	*RE POC
STORE	50443	55275.29	43923.74	974.30	*RE POC
STORE	50303	51792.92	44515.15	960.81	*RG
STORE	50322	55202.09	44571.36	972.25	*RG
STORE	50323	55202.31	44564.68	972.30	*RG
STORE	50324	55307.19	44555.74	972.96	*RG
STORE	50325	55307.06	44563.82	972.20	*RG
STORE	50421	55751.79	44583.91	974.05	*RG STOP AHEAD
STORE	50103	47297.74	44659.21	935.16	*RH
STORE	50116	47297.28	44557.48	935.19	*RH
STORE	50123	47296.86	44455.11	935.37	*RH
STORE	50135	47296.32	44354.77	935.53	*RH
STORE	50653	46531.78	44863.50	931.12	*RH
STORE	50656	46540.05	44863.05	931.14	*RH
STORE	50659	46531.88	44807.15	931.32	*RH
STORE	50661	46539.78	44806.15	931.26	*RH
STORE	50671	46598.30	44792.94	931.66	*RH
STORE	50677	46644.17	44793.17	932.45	*RH
STORE	50678	46645.60	44826.38	932.73	*RH
STORE	50686	46781.43	44824.83	933.11	*RH
STORE	50690	46725.75	44793.40	933.22	*RH
STORE	50687	46780.50	44793.87	933.58	*RH ANG PT
STORE	50665	46616.40	44862.63	932.41	*RH BEG
STORE	50685	46782.40	44862.61	932.97	*RH BEG
STORE	50657	46536.21	44844.68	931.17	*RH MOC
STORE	50662	46535.98	44810.60	931.35	*RH MOC
STORE	50654	46531.82	44849.39	931.13	*RH PC
STORE	50655	46539.94	44849.37	931.18	*RH PC
STORE	50666	46616.52	44828.90	932.29	*RH PC
STORE	50667	46619.26	44826.37	932.31	*RH PC
STORE	50673	46667.50	44826.65	933.04	*RH PC
STORE	50660	46539.88	44792.63	930.89	*RH RO
STORE	50520	56169.00	44639.93	974.83	*RI DIRT
STORE	50521	56190.30	44640.68	975.39	*RI DIRT
STORE	50522	56183.03	44668.13	975.50	*RI DIRT

STORE	50523	56191.88	44658.37	975.61	*RI DIRT
STORE	50524	56217.85	44705.19	975.45	*RI DIRT
STORE	50525	56226.79	44695.96	974.99	*RI DIRT
STORE	50526	56263.53	44732.50	975.01	*RI DIRT
STORE	50527	56253.96	44741.34	975.37	*RI DIRT
STORE	50528	56297.49	44767.14	975.09	*RI DIRT
STORE	50529	56287.13	44776.44	975.55	*RI DIRT
STORE	50530	56329.90	44802.54	975.09	*RI DIRT
STORE	50531	56319.97	44811.76	975.53	*RI DIRT
STORE	50663	46540.04	44828.75	931.19	*RP
STORE	50691	46725.21	44820.71	932.90	*RP
STORE	50692	46725.32	44863.14	932.53	*RP AT FL CHLK
STORE	50436	55296.87	43949.52	973.97	*RV END 4FT CONC
STORE	50441	55296.81	43924.77	974.16	*RV END 4FT CONC
STORE	50246	51787.06	44302.23	961.18	*RW
STORE	50255	51708.00	44303.97	961.14	*RW
STORE	50260	51710.00	44396.76	961.00	*RW
STORE	50270	51789.13	44397.42	960.96	*RW
STORE	50273	51791.19	44492.96	960.81	*RW
STORE	50282	51712.12	44494.86	960.81	*RW
STORE	50285	51714.26	44592.34	960.59	*RW
STORE	50294	51793.42	44592.21	960.65	*RW
STORE	50675	46651.13	44824.51	932.78	*SC
STORE	50734	46793.06	48284.55	926.07	*STEEL PILE
STORE	50735	46784.43	48271.64	920.44	*STEEL PILE
STORE	50736	46775.28	48259.02	929.71	*STEEL PILE
STORE	50447	55226.05	44033.96	975.43	*TELCO PAD
STORE	50448	55226.25	44030.74	975.44	*TELCO PAD
STORE	50449	55223.88	44030.47	975.44	*TELCO PAD
STORE	50450	55223.63	44033.69	975.41	*TELCO PAD
STORE	50836	47332.13	46038.01	943.53	*TOP CONC
STORE	50837	47335.08	46033.97	943.47	*TOP CONC
STORE	50843	47463.53	46152.38	944.88	*TOP CONC
STORE	50844	47466.94	46148.81	944.78	*TOP CONC
STORE	50851	48052.18	46253.12	946.89	*TOP CONC
STORE	50852	48056.62	46254.20	946.75	*TOP CONC
STORE	50859	48081.58	46131.90	946.86	*TOP CONC
STORE	50860	48085.56	46132.80	946.97	*TOP CONC
STORE	50431	55287.44	43993.67	975.56	*TR
STORE	50451	55224.24	44035.65	975.07	*TR
STORE	50063	50465.81	44682.62	955.21	*TRAV
STORE	50064	50958.87	44671.78	957.31	*TRAV
STORE	50006	42058.61	44753.81	910.84	*TRAV PT
STORE	50053	45107.10	44677.84	914.90	*TRAV PT
STORE	50054	46036.49	44757.90	923.91	*TRAV PT
STORE	50055	46495.12	44705.47	927.75	*TRAV PT
STORE	50056	47003.41	44706.19	932.48	*TRAV PT
STORE	50057	47361.17	44693.99	934.92	*TRAV PT
STORE	50191	49816.74	44756.15	951.46	*TRAV PT
STORE	50571	46532.56	44811.95	931.36	*TRAV PT
STORE	50572	46671.28	44824.65	933.01	*TRAV PT
STORE	50573	46367.40	44789.45	934.31	*TRAV PT
STORE	50574	46083.92	44786.85	936.48	*TRAV PT
STORE	50834	47824.03	46493.20	946.06	*TRAV PT 202
STORE	50016	49956.32	44730.04	952.11	*TRAV.PT.
STORE	50033	46191.82	47674.45	932.37	*TRAV.PT.
STORE	50034	46684.81	48209.15	932.21	*TRAV.PT.
STORE	50040	45578.29	44771.85	917.91	*TRAV.PT.
STORE	50048	41682.60	44751.59	913.30	*TRAV.PT.
STORE	50062	49617.89	44690.04	949.57	*TRAV.PT.
STORE	50065	51464.70	44661.35	959.52	*TRAV.PT.
STORE	50066	51755.86	44691.26	959.71	*TRAV.PT.
STORE	50067	49952.38	44230.72	953.64	*TRAV.PT.
STORE	50068	49948.42	43729.17	952.81	*TRAV.PT.
STORE	50069	49944.46	43226.86	951.45	*TRAV.PT.
STORE	50071	49960.39	45230.16	950.97	*TRAV.PT.
STORE	50075	52253.49	44645.92	961.51	*TRAV.PT.
STORE	50078	53254.44	44622.39	964.23	*TRAV.PT.
STORE	50079	53753.05	44610.67	965.58	*TRAV.PT.
STORE	50080	54252.79	44598.92	967.93	*TRAV.PT.

STORE	50081	54753.95	44587.14	969.84	*TRAV.PT.
STORE	50082	55256.14	44614.57	971.82	*TRAV.PT.
STORE	50083	55750.17	44639.98	972.86	*TRAV.PT.
STORE	50084	56350.30	44640.72	975.16	*TRAV.PT.
STORE	50085	56951.05	44641.47	977.05	*TRAV.PT.
STORE	50086	57550.19	44642.21	979.19	*TRAV.PT.
STORE	50088	55224.58	44127.65	973.99	*TRAV.PT.
STORE	50089	55227.52	43527.84	973.10	*TRAV.PT.
STORE	50090	55230.47	42926.98	973.02	*TRAV.PT.
STORE	50091	55233.41	42327.01	972.74	*TRAV.PT.
STORE	50093	55222.49	45098.49	971.06	*TRAV.PT.
STORE	50094	55224.00	45699.29	970.20	*TRAV.PT.
STORE	50095	55225.52	46298.97	969.44	*TRAV.PT.
STORE	50096	55227.03	46899.81	967.68	*TRAV.PT.
STORE	50297	51806.57	44592.07	961.47	*TT
STORE	50299	51806.89	44567.61	961.11	*TT
STORE	50304	51805.23	44517.98	960.94	*TT
STORE	50307	51699.33	44517.25	961.16	*TT
STORE	50310	51700.13	44568.16	961.03	*TT
STORE	50312	51700.61	44593.19	960.94	*TT
STORE	50679	46640.43	44784.01	931.98	*TT
STORE	50680	46596.09	44784.10	931.16	*TT
STORE	50681	46582.15	44784.45	931.03	*TT DEAD
STORE	50682	46566.28	44784.15	930.69	*TT DEAD
STORE	50689	46728.46	44785.10	933.01	*TT DEAD
STORE	50326	55380.22	44516.44	972.82	*TTD1H12C5MESQ
STORE	50327	55364.79	44516.60	973.25	*TTD1H12C5MESQ
STORE	50328	55349.69	44516.80	973.28	*TTD1H12C5MESQ
STORE	50329	55366.43	44504.04	973.83	*TTD1H12C5MESQ
STORE	50330	55349.41	44501.56	973.31	*TTD1H12C5MESQ
STORE	50331	55347.27	44486.36	973.16	*TTD1H12C5MESQ
STORE	50505	56539.00	44538.55	978.00	*TTD1INH12C3MESQ
STORE	50506	56556.23	44536.54	977.77	*TTD1INH12C3MESQ
STORE	50507	56571.67	44536.95	977.66	*TTD1INH12C3MESQ
STORE	50508	56572.82	44520.35	977.47	*TTD1INH12C3MESQ
STORE	50509	56573.10	44503.27	977.23	*TTD1INH12C3MESQ
STORE	50510	56557.36	44521.79	977.76	*TTD1INH12C3MESQ
STORE	50319	53918.52	44684.00	967.95	*WEST END ELECT
STORE	50737	46768.40	48246.53	929.62	*WOOD PILE
STORE	50738	46758.89	48233.68	931.19	*WOOD PILE
STORE	50739	46751.36	48221.34	931.54	*WOOD PILE
STORE	50740	46799.43	48293.97	932.95	*WOOD PILE

BROOKS HERSEY & ASSOCIATES, INC.
4602 East Elwood Street #16
PHOENIX, AZ 85040-1960
(602) 437-3733

SHEET NO. _____ OF _____
CALCULATED BY M. HOLLY DATE 9-18-97
CHECKED BY _____ DATE _____
SCALE _____



BROOKS HERSEY & ASSOCIATES, INC.
4602 East Elwood Street #16
PHOENIX, AZ 85040-1960
(602) 437-3733

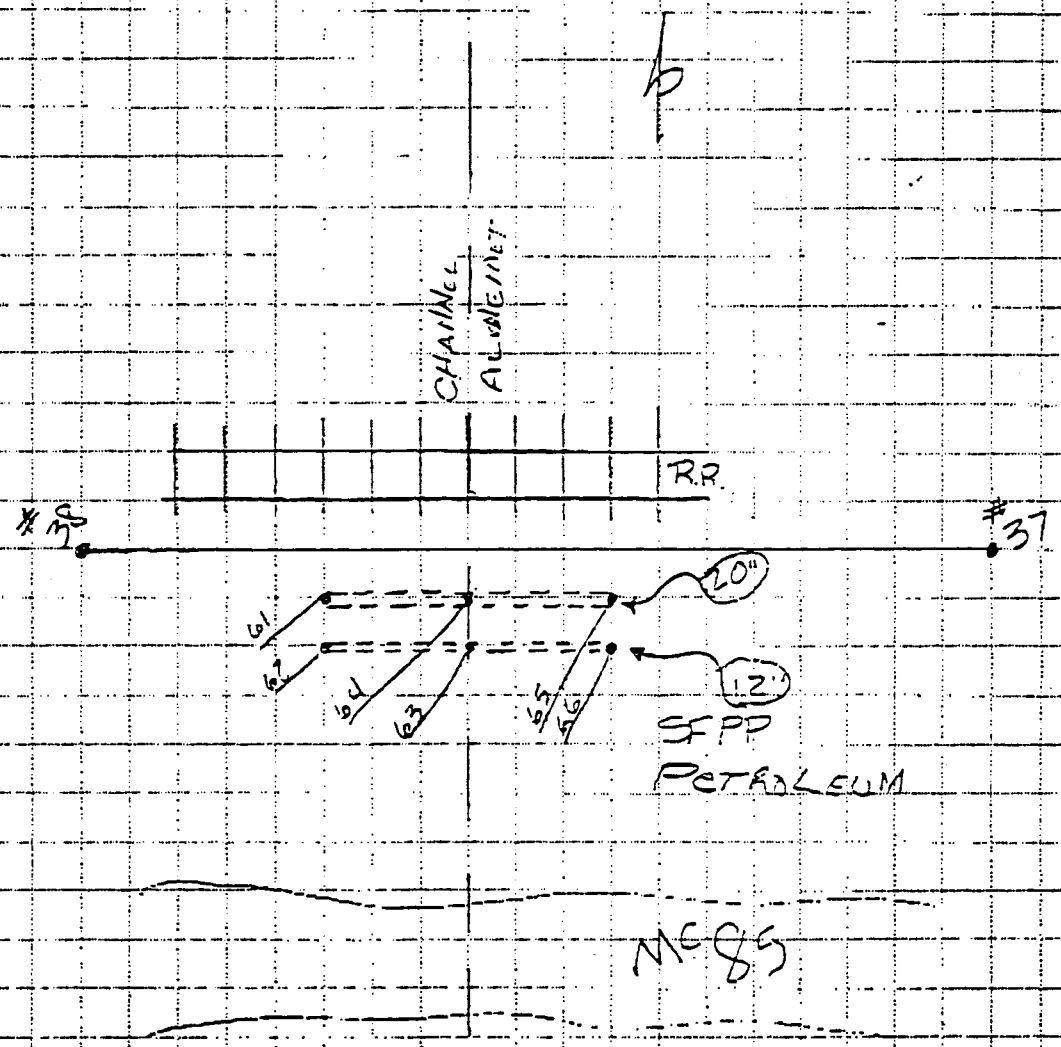
Job

SHEET NO. _____ OF _____

CALCULATED BY M. HOLLY DATE 9/18/97

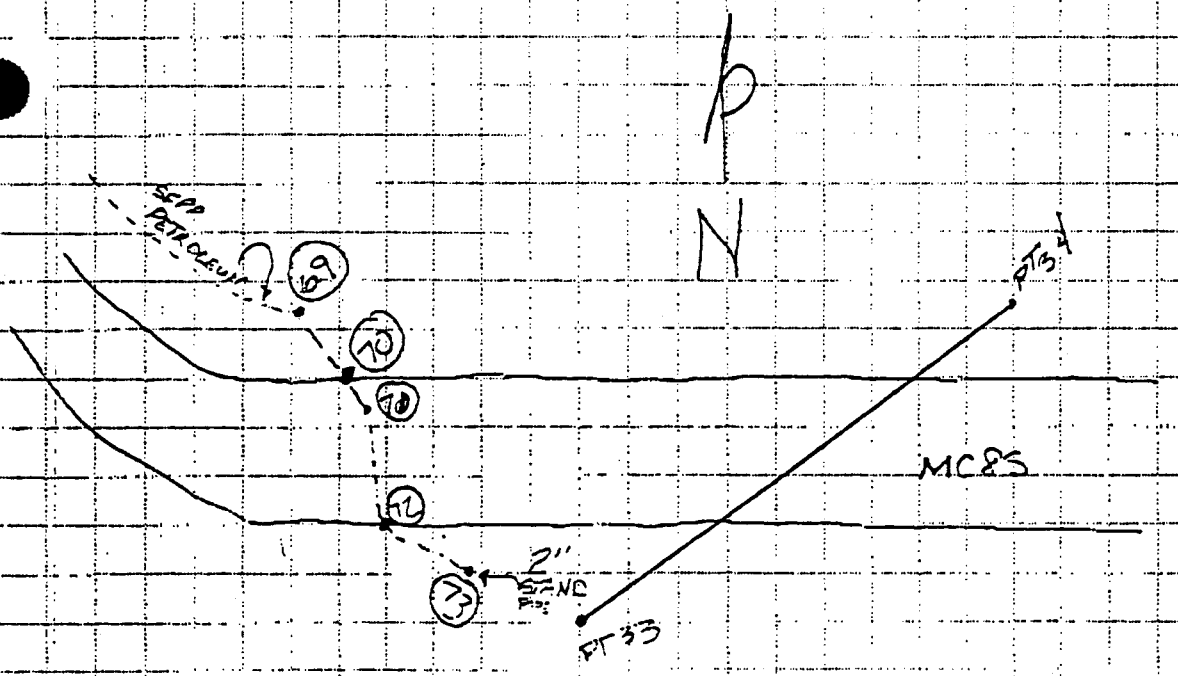
CHECKED BY _____ DATE _____

SCALE _____



BROOKS HERSEY & ASSOCIATES, INC.
4602 East Elwood Street #16
PHOENIX, AZ 85040-1960
(602) 437-3733

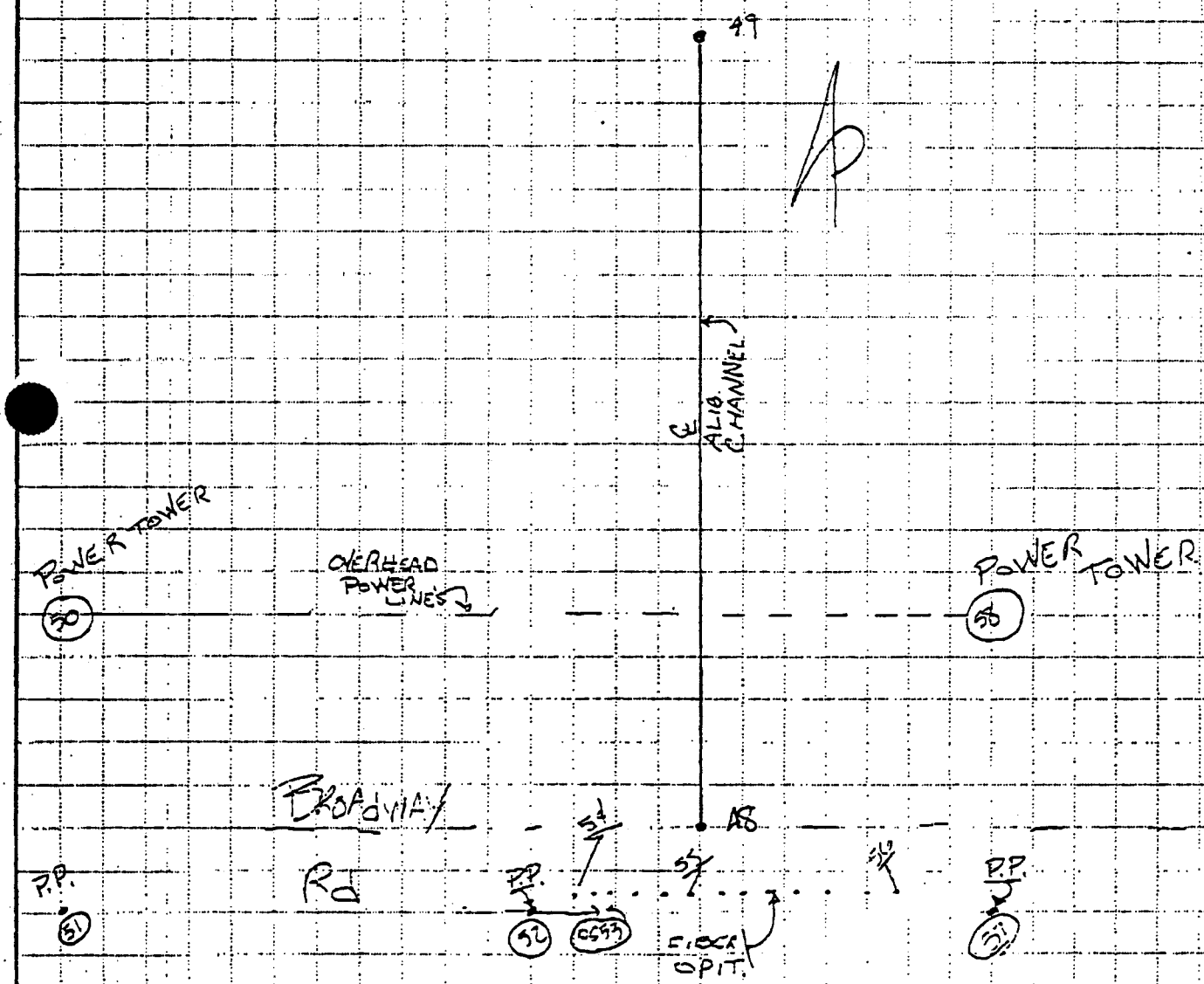
SHEET NO. _____ OF _____
CALCULATED BY M. HOLLY DATE 9/18/97
CHECKED BY _____ DATE _____
SCALE _____



(Single Sheets) 205-1 (Pastel) NEBS Inc. Groton, Mass. 01471. To Order PHONE TOLL FREE 1-800-225-6380

BROOKS HERSEY & ASSOCIATES, INC.
4602 East Elwood Street #16
PHOENIX, AZ 85040-1960
(602) 437-3733

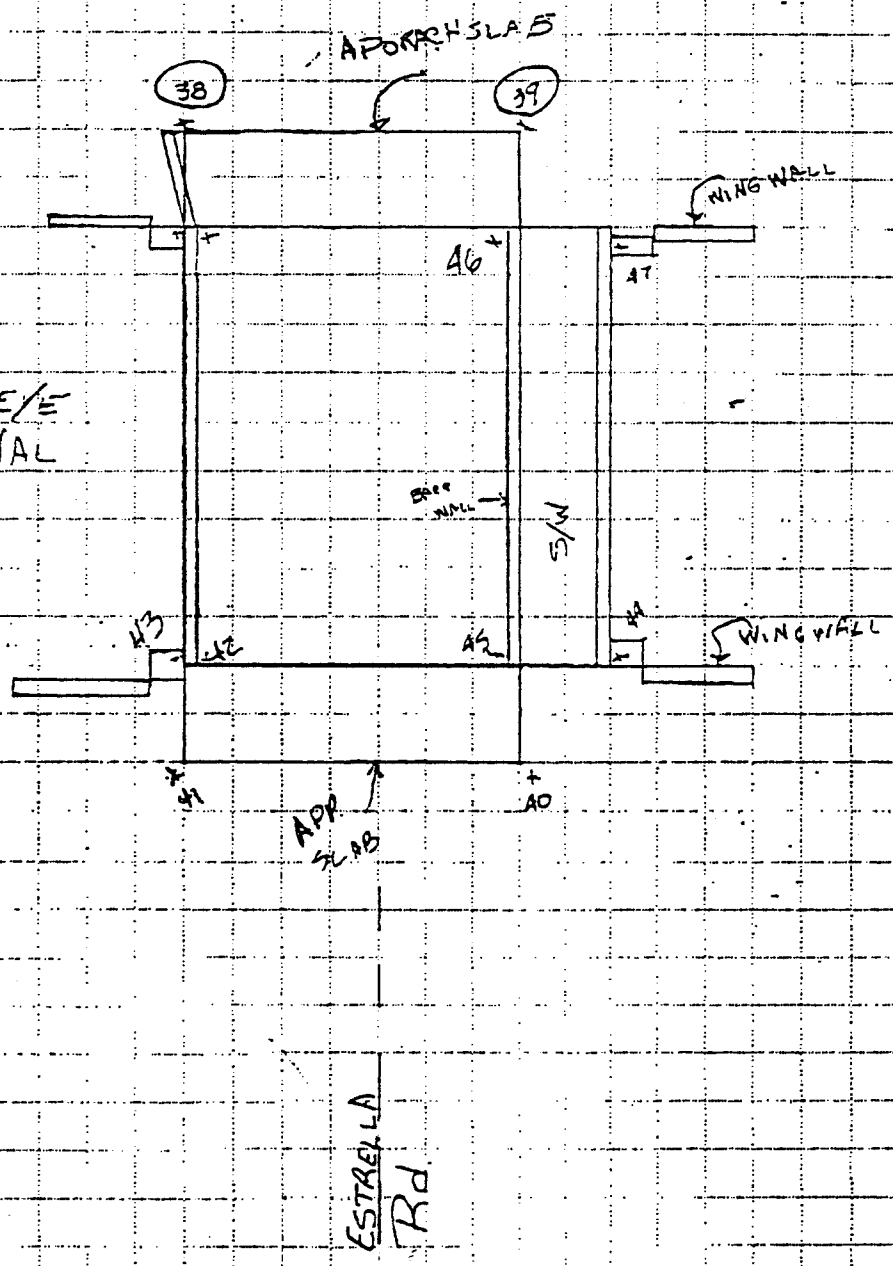
SHEET NO. _____ OF _____
CALCULATED BY M. Holly DATE 9/18/97
CHECKED BY _____ DATE _____
SCALE _____



PRODUCT 204-1 (Single Sheets) 205-1 (Padded) HERSEY Inc. Groton, Mass. 01471. To Order PHONE TOLL FREE 1-800-225-4380

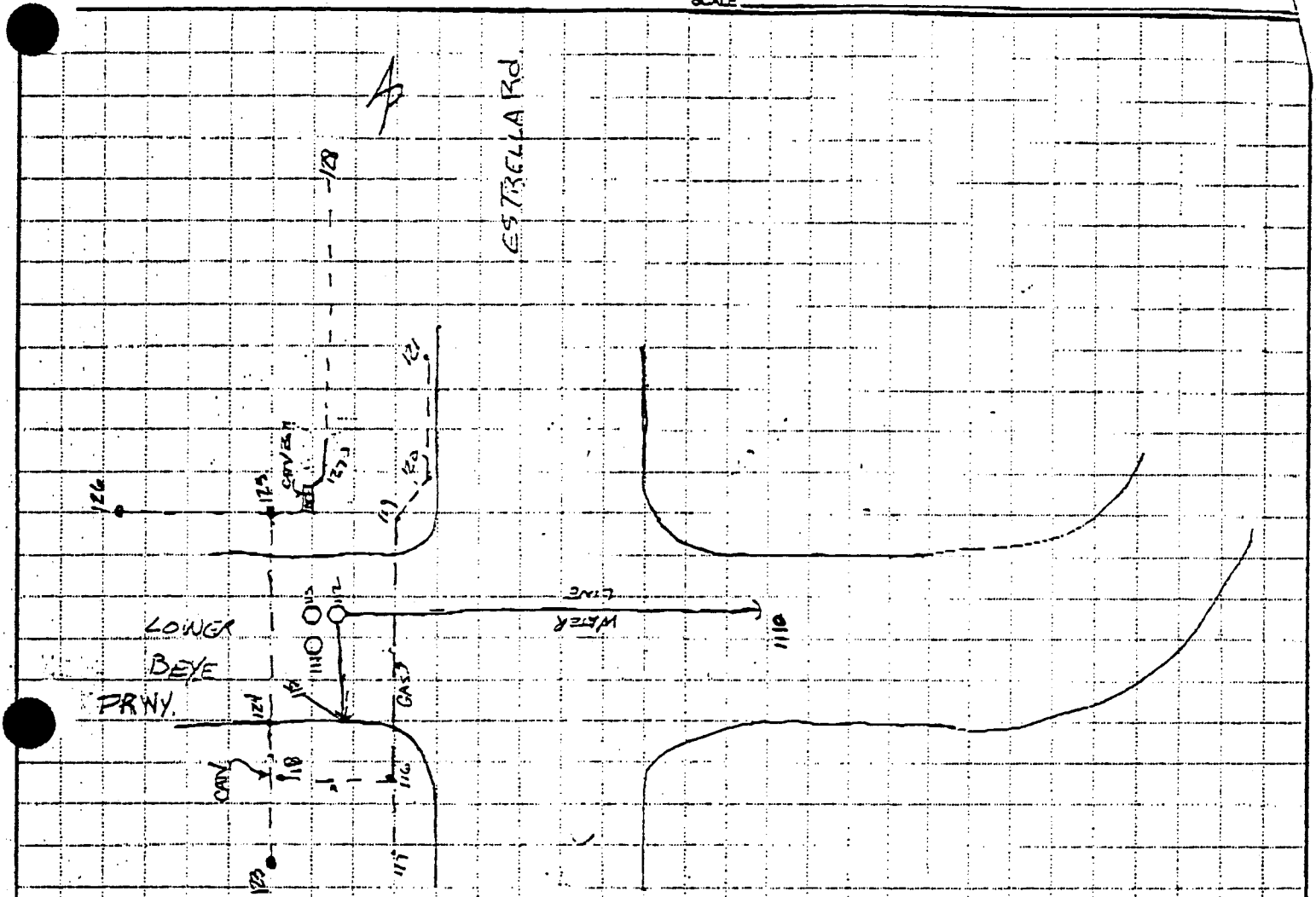
BROOKS HERSET & ASSOCIATES, INC.
4602 East Elwood Street #16
PHOENIX, AZ 85040-1960
(602) 437-3733

SHEET NO. _____ OF _____
CALCULATED BY M. HOLLY DATE 9/18/97
CHECKED BY _____ DATE _____
SCALE _____



BROOKS HERSEY & ASSOCIATES, INC.
4602 East Elwood Street #16
PHOENIX, AZ 85040-1960
(602) 437-3733

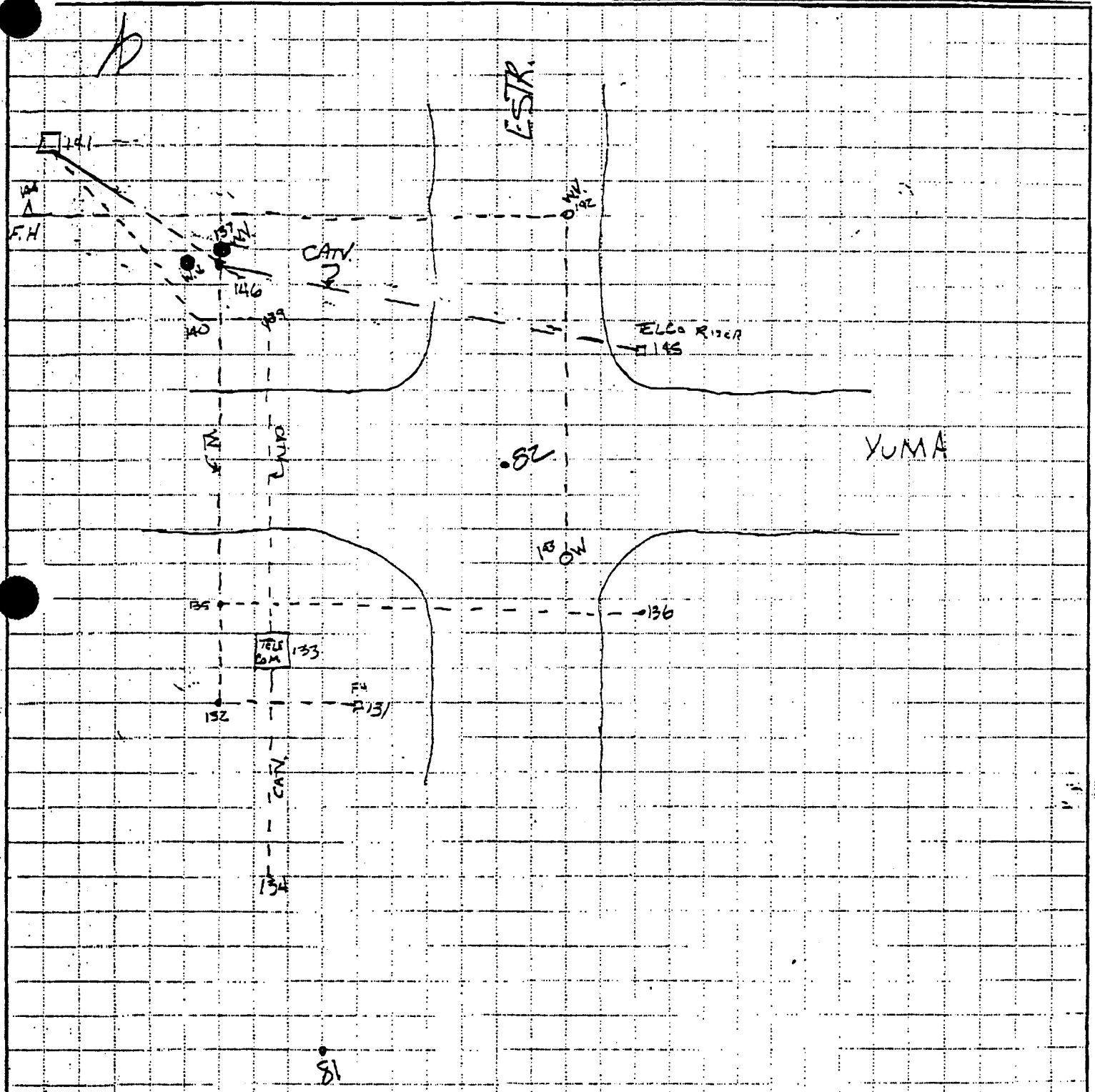
SHEET NO. _____ OF _____
CALCULATED BY M. Holly DATE 9/18/97
CHECKED BY _____ DATE _____
SCALE _____



PRODUCT 204-1 (Single Sheets) 205-1 (Padded) Ampad, Inc., Boston, Mass. 01471. To Order PHONE TOLL-FREE 1-800-225-6380

BROOKS HERSEY & ASSOCIATES, INC.
4602 East Elwood Street #16
PHOENIX, AZ 85040-1960
(602) 437-3733

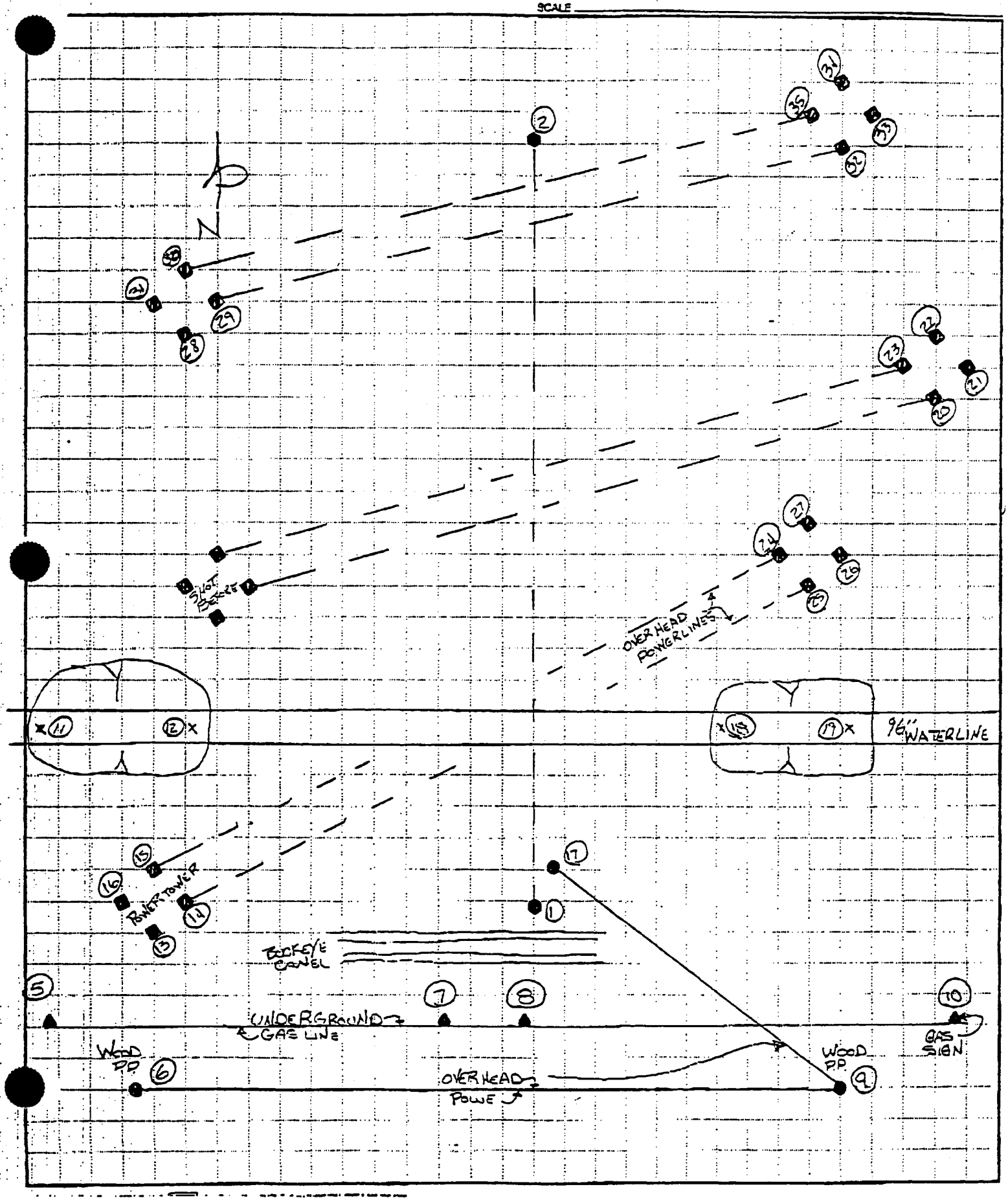
SHEET NO. _____ OF _____
CALCULATED BY M. Holly DATE 9/18/97
CHECKED BY _____ DATE _____
SCALE _____



PRODUCT 204-1 (Single Sheet) 205-1 (Padded) NEBS Inc., Groton, Mass. 01471. To Order PHONE TOLL FREE 1-800-225-6380

BROOKS HERSEY & ASSOCIATES, INC.
4602 East Elwood Street #16
PHOENIX, AZ 85040-1960
(602) 437-3733

SHEET NO. _____ OF _____
CALCULATED BY M. Hall DATE 9/18/97
CHECKED BY _____ DATE _____
SCALE _____



TOTAL P.09

SOKKIA™

MADE IN U.S.A.

[redacted]

SOKKIA™ 319

MCDOT

ENGINEER'S FIELD BOOK

No. 8152-30

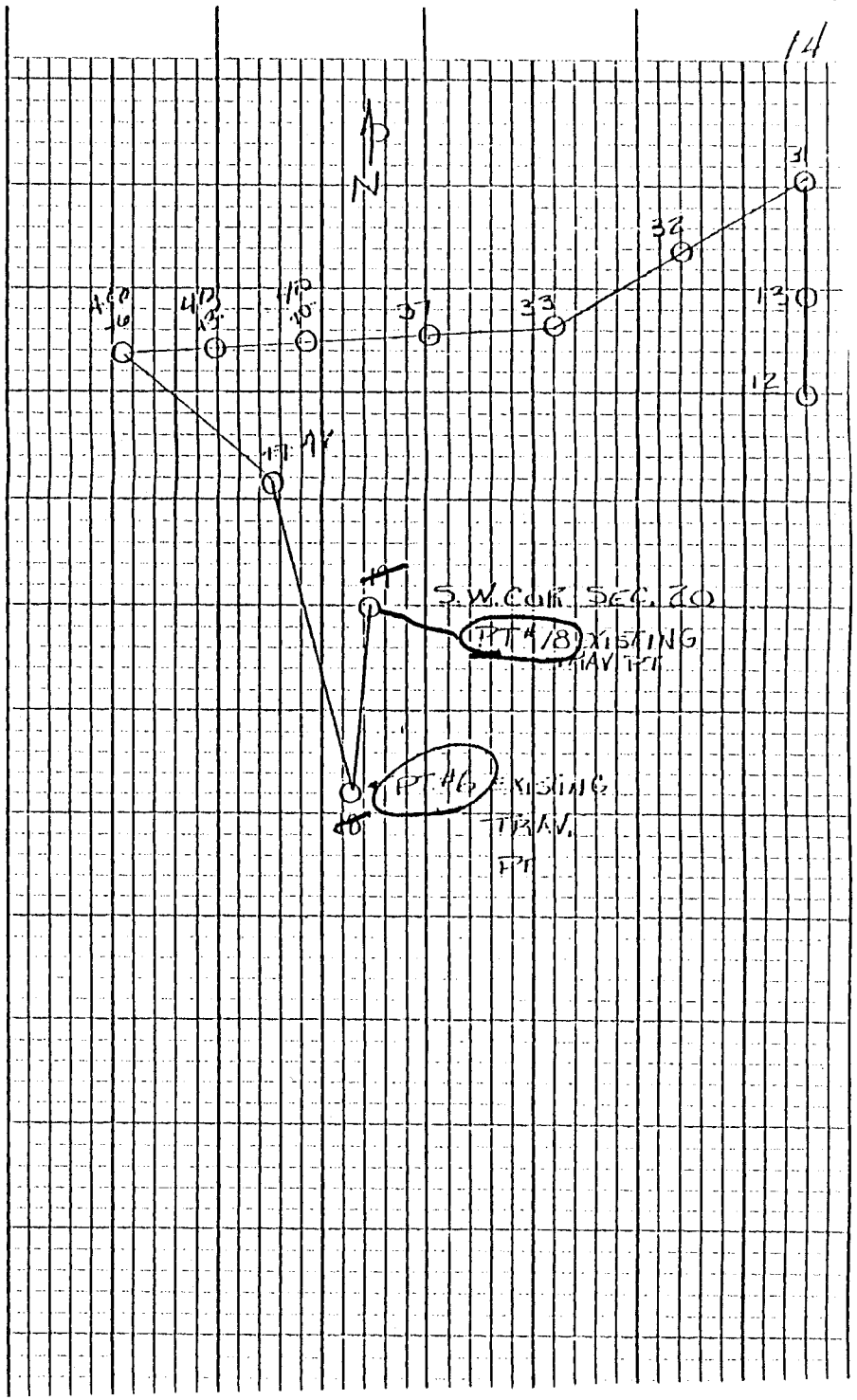
M.C. BT

2/18/97

M. Kelly

F. Greenhalgh

PT. #	DESC.
31	SET ½" REBAR APPOX. INT. MC 85 & BOLLARD AVE. 25± NORTH OF EPVMT & 10± W/S OF WTER
32	SET ½" REBAR
33	
34	
35	
36	
37	
38	
39	
~~38~~ 40	
41	
42	
43	
44	
45	
46	
47	SET TEXAS SPIKE
~~48~~	
49	
	EXISTING TRAV. PT.'S SEE BK 22 & BK-22 & 23
6	CHISEL CROSS ON EAST SIDE OF RIM OF W.V.
12	SET P.K. ON PVMT. @ ℄ STRIPE BOLLARD AVE
13	FD MCHO BC/H EAST ¼ SEC. 20
18	FD BC/H IN S/MAIN W.V. H.H.



TO 3 P.S. 12
SPT FT#31

I	00.00.49	I 180.00.40	
D	178.39.19	D 358.37.16	
∂	178.38.30	∂ 178.38.36	
I	00.00.47	I 180.00.40	
D	178.39.08	D 358.37.16	
∂	178.38.28	∂ 178.38.36	
M.∂	178.38.32.50		
ZD	90.23.22		
ZR	269.36.32		
SUN	359.57.51		
MT	90.23.23		
S.D.	499.58		
S.M	152.222		

TC31 BS 13			
ϕ RT	FT32		
I	00.01.18	I 180.01.54	
D	57.16.17	R 237.16.14	
ϕ	57.14.29	ϕ 57.14.20	
I	00.01.54	I 180.01.51	
D	57.16.15	R 237.16.16	
ϕ	57.14.21	ϕ 57.14.25	
MϕT	57.14.2375		
ZD	90.22.51		
ZR	269.37.30		
SUM	360.00.06		
MZ	90.22.28		
SD	131608		
SM	401.141		

T@32 B.531
ŧRT PT33

I	00.00.12	I 180.00.44	
D	176.50.21	R 356.50.16	
ŧ	176.49.39	ŧ 176.49.32	
I	00.00.37	I 180.00.45	
D	176.50.14	R 356.50.15	
ŧ	176.49.37	ŧ 176.49.30	
Mŧ	176.49.34.50		
ZD	89.58.13		
ZR	270.01.41		
SUM	359.59.56		
MZ	89.58.16		
S.D	1515.02		
S.M	461.78		

TC33 B.S32

∡ RT	PT34	SIDESHOT	
T	00.01.18	T	180.01.05
D	354.51.19	R	174.54.12
∡	354.53.01	∡	354.53.07
T	00.01.14	T	180.01.08
D	354.51.17	R	174.54.15
∡	354.53.03	∡	354.57.07
M∡	354.53.04 50		
ZD	90.02.44		
ZM	269.57.10		
SUM	359.59.54		
MZ	90.02.47		
SD	727.28		
SM	221.615		

TCB3 P.S.32

TPT	PT#3	CLOSE SHOT
T.	00.00.49	T 180.00.49
D	187.44.22	R 07.44.23
T	187.43.33	T 187.43.34
T	00.00.51	T 180.00.51
D	187.44.23	R 7.44.27
T	7.43.32	T 187.43.36
[illegible]	187.43.3375	
[illegible]	90.42.58	
[illegible]	269.16.59	
[illegible]	359.59.57	
MZ	90.43.00	
SD	421.12	
S.M	128.358	

T@35 B.S.32
↓RT PT35 SIDESHOT

I	00.01.02	I	180.01.07
D	191.21.21	R	11.21.28
∡	191.20.17	∡	191.20.21
I	00.01.07	I	180.01.09
D	191.21.21	R	11.21.28
∡	191.20.14	∡	191.20.20
M∡	191.20.18		
ZD	90.34.02		
ZR	269.25.48		
SUM	359.59.50		
IAZ	90.34.07		
S.D	805.28		
S.M	215.450		

TC35	5532			
∡ FT	FT	137		
			I 180.01.42	
I	00.01.42		R 21.58.24	
D	201.58.20		∡ 201.56.42	
∡	201.56.28			
I	0001.46		I 180.01.51	
D	201.58.26		R 21.58.31	
∡	201.56.40		∡ 201.56.40	
M∡	201.56.40			
ZO	90.21.02			
ZR	269.39.00			
SUM	360.00.02			
MZ	90.21.01			
S.B.	1[illegible].21			
SM	369.[illegible]4			

TC37	BS32		
∡RT	40		
I	00.01.04	I	180.01.17
D	186.14.32	R	06.14.37
∡	186.13.28	∡	186.13.20
I	00.01.07	I	180.01.11
D	186.14.30	R	06.14.40
∡	186.13.23	∡	186.13.29
M∡	186.13.25		
ZD	90.14.09		
ZR	269.45.48		
SUM	359.59.57		
MZ	90.14.11		
SD	1757.94		
SM	535.972		
	PT 38 43		
PT38		PT43	
ZD	90.23.55	90.19.18	
ZR	269.36.19	269.40.54	
MZ	90.23.43	90.19.12	
SD	501.95	1000.90	

1.40 B.S.37

℄RT PT. 41 SIDE S45T

I	00.01.03	I 180.01.02
D	171.36.07	R 351.36.08
S	171.35.01	S 171.35.06
I	00.00.55	I 180.01.03
D	171.36.06	R 351.36.07
S	171.35.11	S 171.35.06
IN	171.35.062	
ID	70.15.11	
IR	109.44.32	
OUT	351.59.42	
MS	70.15.14	
SD	[illegible]	
SM	184.770	

TOCO [illegible]31

*RT 42 SIDE SHOT

I	00.01.37	I 180.01.46
D	176.03.44	R 356.03.50
∢	176.02.07	∢ 176.02.04
I	00.01.42	I 180.01.43
D	176.03.46	R 356.03.44
∢	176.02.04	∢ 176.02.01
M∢	176.02.04	
Z.D.	90.12.19	
Z.R.	269.47.22	
SUM	359.59.41	
MZ	90.12.29	
S.D.	1075.47	
SM	327.804	

TRC) E:37
ART PT43

I	00.00.45	I 180.00.11
D	177.19.04	R 357.19.06
J	177.18.21	J 177.18.17
I	00.00.45	I 180.00.55
D	177.19.12	R 357.19.21
J	177.18.27	J 177.18.26
IA	177.18.22 E	
ID	00.00.46	
ZR	360.00.08	
SUM	360.00.02	
MZ	00.00.04	
S.D.	507.45	
S.M	487.44	

TC43 B5 90

S RT PT 46

T	00.00.41	T	180.00.41
D	184.02.47	R	04.02.51
S	184.02.12	S	184.02.10
T	00.00.33	T	180.00.38
D	184.02.44	R	04.02.48
S	184.02.11	S	184.02.10
MT	184.02.11		
LD	90.09.46		
LR	269.50.09		
LM	359.59.55		
MZ	90.09.49		
SD	609.35		
SM	490.530		
	PT#5	4.44	[illegible]
PT#4.1			[illegible]
LD	90.12.01		90.07.29
LR	[illegible]		269.52.23
MZ	90.12.07		90.07.33
SD	[illegible]		1066.43

$RT.	47		
I	00.01.17	I	180.01.10
D	21.19.31	R	201.19.29
$	21.18.14	$	21.18.19
I	00.01.16	I	180.01.15
D	21.19.33	R	201.19.29
$	21.18.17	$	21.18.14
M$	21.18.16		
ZD	89.52.10		
ZR	270.07.56		
SUM	360.00.06		
MZ	89.52.07		
SD	1851.21		
SM	564.251		

TC4 B.S. 46

℄ RT PT ~~#48~~ (PT#6 SEE BK 278 PG 22)

I	00.00.43	I	180.00.40
D	228.56.19	R	48.56.22
℄	228.55.36	℄	228.55.42
I	00.00.43	I	180.00.47
D	228.56.19	R	48.56.24
℄	228.55.36	℄	228.55.37
M℄	228.55.37.75		
ZD	90.03.33		
ZR	269.56.38		
SUM	360.00.11		
MZ	90.03.28		
S.D.	286628		
S.M	873.646		

TC ~~8~~ 6 B547

PT ~~PX~~ (PT#18 SEE BK 298 PG. 23)

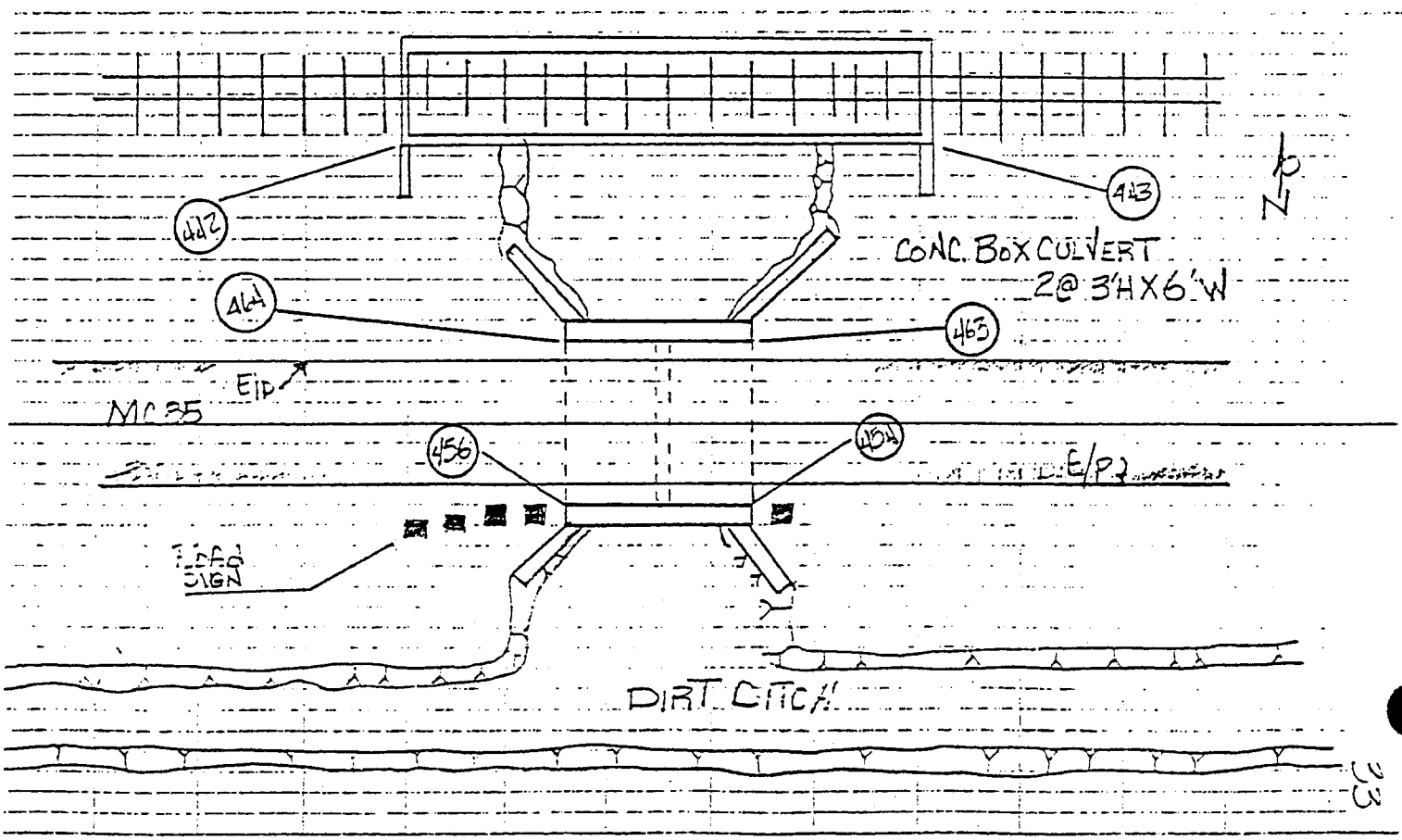
I	00.00.34	I 180.00.35
D	27.31.10	R 201 31.13
∡	27.30.36	∡ 27.30.38
I	00.00.31	I 180.00.31
D	27.31.12	R 207 31.11
∡	27.30.41	∡ 27.30.40
M∡	27.30.39 75	

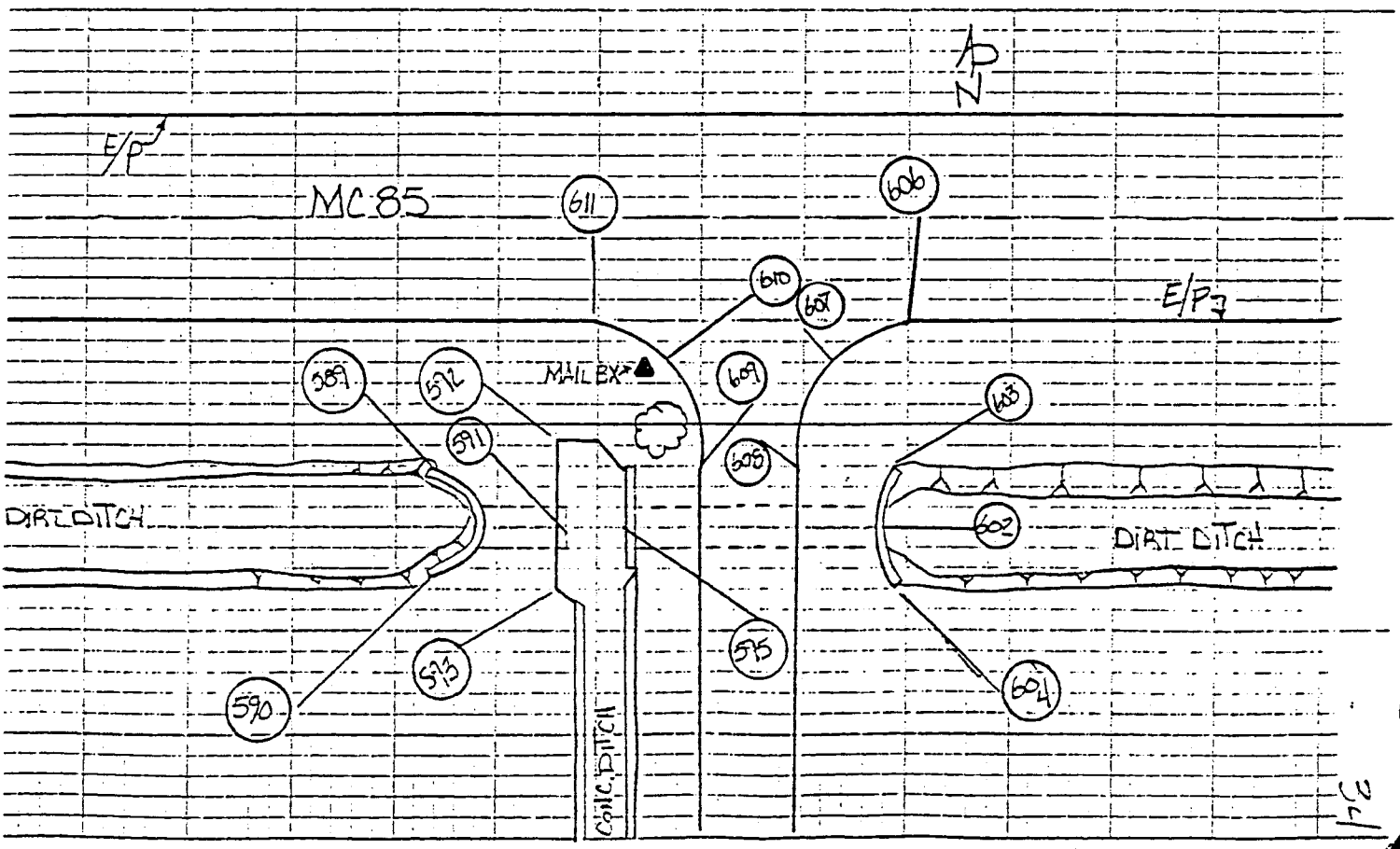
BENCH LOOP
M.C. 85
FOR CONTROL 2/20/97
PTS: MARK KEVIN
TOM GREENWALD

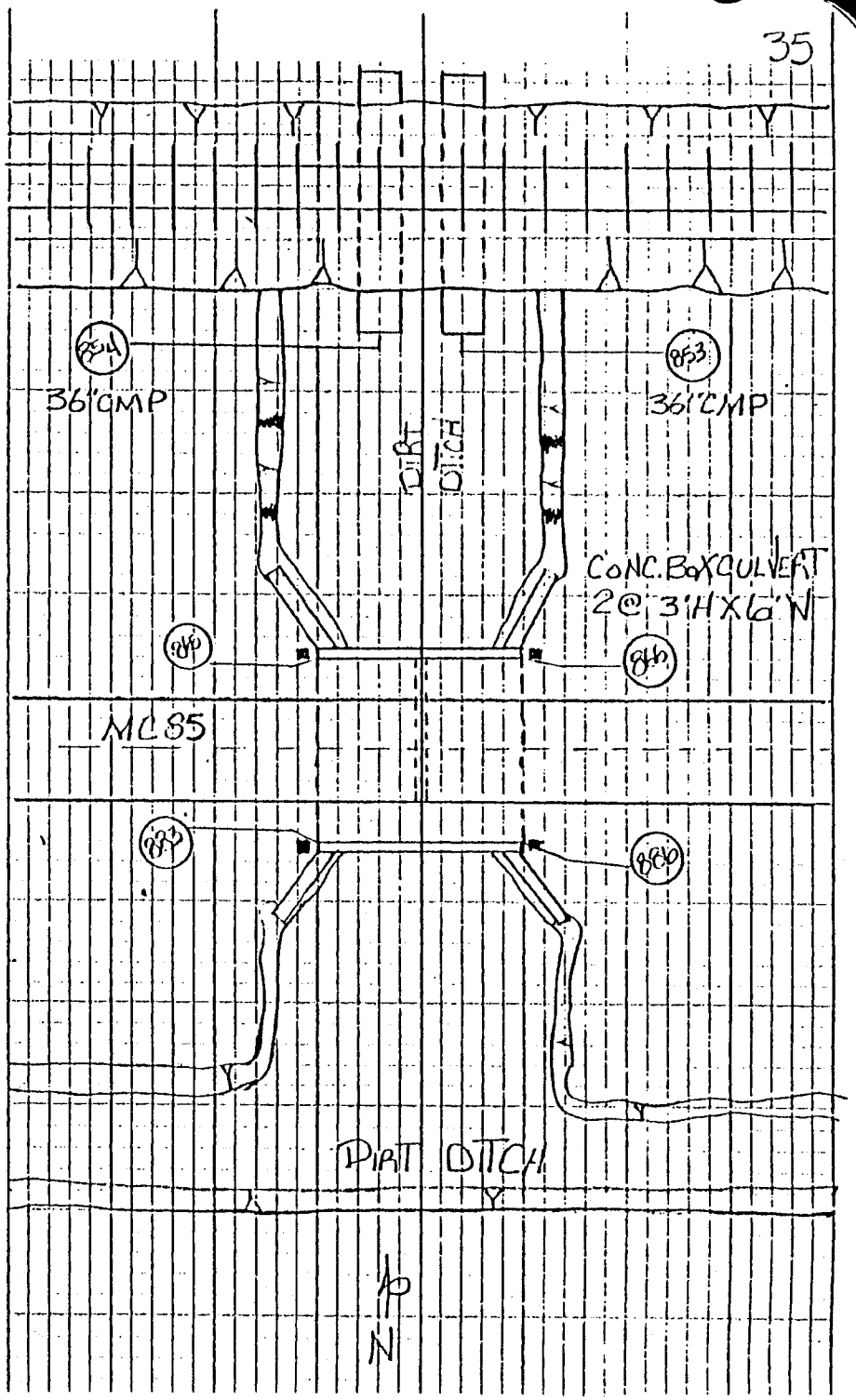
STA	+	HI	−	ELEV	ADJ.	DESC
				922.00		MCHD BRASS CAP IN H.H. BULLARD AVE & BROADWAY RD. RM #270
	6.21	928.21				
			1.33	926.88		TP#1 T/REINFORCING CONCRETE
	6.19	933.07				
			1.45	931.62		TP2 T/C BULLARD AVE EAST SID CHISLED H LA ESTRELLA
	9.87	941.49				
			2.03	939.46		TP3 T/C
	8.18	947.64				
			4.64	943.00		TP#4 T/C
	5.98	948.98				
			5.57	943.41		TP5 T/C
	4.65	948.06				
			8.59	939.47	939.50	PT# 31 1/2 REBAR
	4.88	944.35				
			8.13	936.22		TP#7 ROCK
	3.59	939.81				
			8.06	931.75		TP#8 ROCK
	5.78	937.53				
			6.60	930.93	931.00	PT#32 1/2 REBAR ?
	5.03	935.96				
			2.61	933.35	933.43	TP 10 ALUM CAP ALUM. OF ZHIDE MCRD NORTH SIDE EAST END OF BRIDGE
	2.29	935.64				
			3.51	932.13	932.21	PT#34 1/2 REBAR ?
	3.27	935.40				
			6.82	928.58		TP#11 ROCK
	6.79	935.37				

STA	+	HI	−	ELEV.	ADJ	DESC
		93537				
			.310	93227	93237	PT.# 33 1/2 REBAR
	1.74	93401				
			6.60	927.41	927.52	PT# 35 1/2 REBAR
	3.89	93130				
			6.58	924.72	924.84	PT# 36 1/2 REBAR
	3.73	928.45				
			3.86	924.57	924.69	PT.# 37 1/2 REBAR
	2.30	926.87				
			500	92187	922.00	PT# 38 1/2 REBAR
	4.63	926.50				
			6.65	919.85	919.99	PT# 39 1/2 REBAR
	4.76	921.61				
			6.79	917.82	917.97	PT# 40 1/2 REBAR
	3.81	921.63				
			6.02	915.61	915.76	PT# 41 1/2 REBAR
	5.11	920.72				
			6.27	914.45	914.61	PT.# 42 1/2 REBAR
	4.78	919.23				
			6.28	912.95	913.12	PT.# 43 1/2 REBAR
	5.80	918.75				
			6.85	911.90	912.08	PT# 44 1/2 REBAR
	5.44	917.34				
			5.85	911.49	911.67	PT# 45 1/2 REBAR
	2.92	914.41				
			6.12	908.13	908.32	PT.# 46 1/2 REBAR

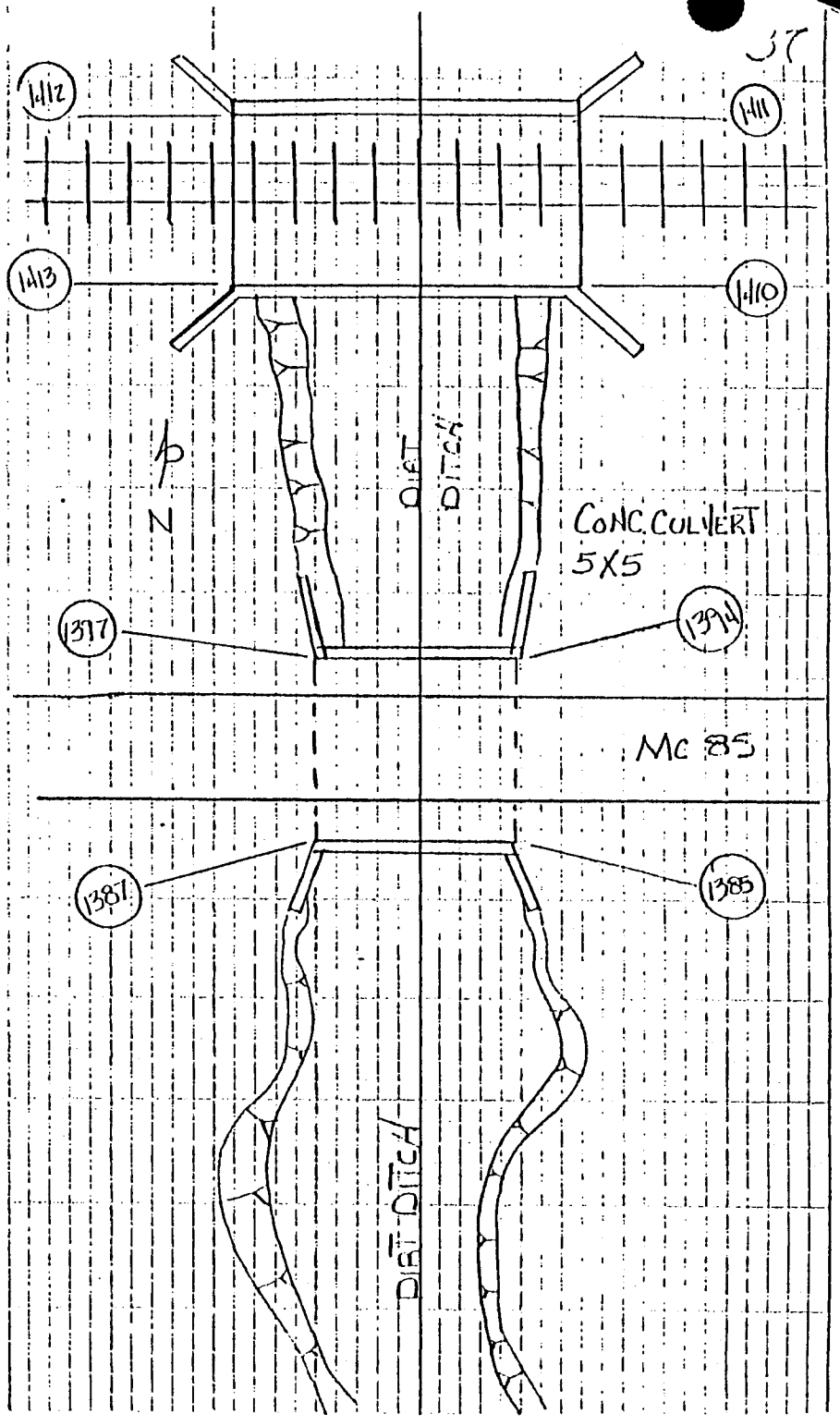
STA	+	HI	−	ELEV	ADJ.	DESC.
				x 905.13		
	1.616	914.29				
			2.81	911.48		T.P.
	5.99	917.47				
			5.59	911.88		T.P.
	6.70	918.58				
			5.65	912.93		T.P.
	6.32	919.25				
			4.82	914.43		T.P.
	6.06	920.49				
			4.90	915.59		T.P.
	6.41	922.00				
			4.50	917.50		T.P. E/P
	1.50	919.00				
	-		6.05	912.95		RM #269 B.C. IN H.H. ESTRELLA PK. WAY (Reema Rd) & BROADWAY PG. EL = 913.16

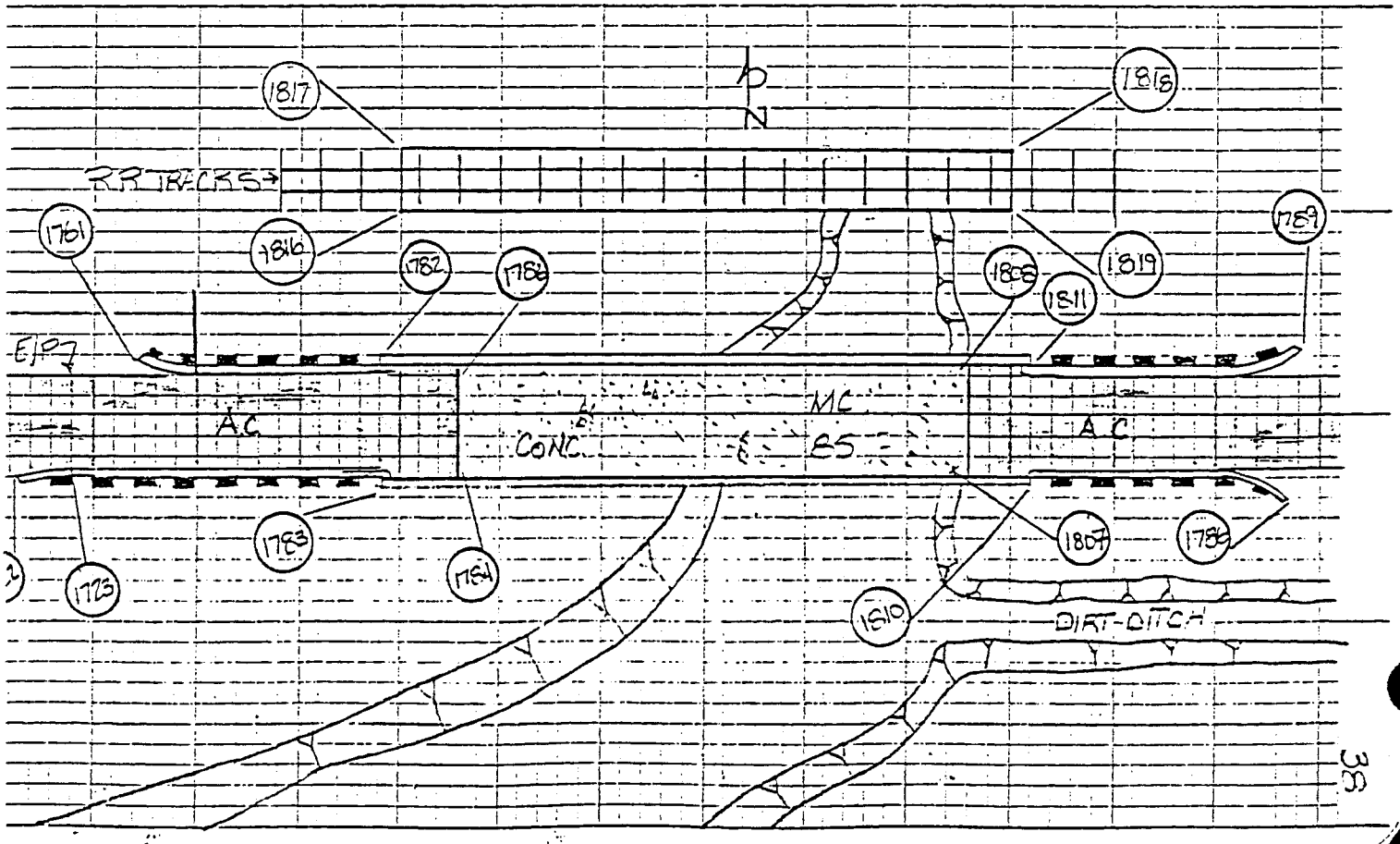

442
443
N
CONC. BOX CULVERT
2@ 3'H X 6'W
464
463
E/P
MC 35
456
454
E/P
FLOOD SIGN
DIRT DITCH


N
E/P
MC 85
611
606
610
607
E/P
589
592
MAILBX
609
603
591
608
DIRT DITCH
602
DIRT DITCH
575
593
604
590
COUNTY DITCH


854
36" CMP
853
36" CMP
DIRT DITCH
CONC. BOX CULVERT
2@ 3'H X 6'W
850
849
MC 85
853
850
DIRT DITCH
N

CONC. DITCH
DIRT DITCH
GUARD RAIL
MC 85
ESTRELLA
N


1412
1411
1413
1410
N
DIRT DITCH
CONC. CULVERT
5X5
1397
1394
MC 85
1387
1385
DIRT DITCH


N
RR TRACKS
1817
1816
1761
1816
1782
1782
1808
1811
1819
1789
EIP7
AC
CONC.
MC
BS
AC
1783
1764
1807
1786
1773
1810
DIRT-DITCH

BENCH
LOOP
FOR
ESTIMATE
PRO.
CROSS
SECTIONS

STA	+	HI	−	ELEV.	ADJ.	DESC.
				913.18		RM #269 B.C. IN H.H. ESTELLA PKWY (RECORD) & BROADWAY Rd
	5.21	918.39				
			6.62	911.77		TP E/P
	5.96	917.73				
			5.24	912.49		PT #51 1/2 REBAR
	4.68	917.17				
			6.61	910.56		PT #50 1/2 REBAR
	6.61	917.17				
			8.06	909.11		PT #49 1/2 REBAR
	7.70	916.81				PT #6 CHISLED CROSS ON EAST SIDE OF RIM OF
			5.97	910.84		WATER VALVE WEST SIDE OF ESTRELLA PKWY NEAR
	5.35	916.19				W¼ COR SEC. 29
			2.89	913.30		PT #48 1/2 REBAR
	2.72	916.02				
			5.17	910.85		TP E/P
	5.44	916.29				
			7.17	909.12		TP #49
	7.49	916.61				
			6.04	910.57		TP #50
	6.33	916.70				
			4.40	912.50		
	3.84	916.31				
			2.91	913.43		PT #52 1/2 REBAR
	4.01	917.44				
			4.25	913.19	E/C +.01	RM #269

STA	+	HI	−	EL	ADJ	DESC.
				913.18		RM #269
	5.68	918.86				
			3.94	914.92	914.90	PT #53 1/2 REBAR
	6.21	921.13				
			3.08	918.05		T.P.
	9.58	927.63				
			3.65	923.98	923.91	PT #54 1/2 REBAR
	8.13	932.11				
			4.27	927.84	927.75	PT #55 1/2 REBAR
	8.85	936.69				
			4.09	932.60	932.48	PT #56 1/2 REBAR
	6.23	938.83				
			3.77	935.06	934.92	PT #57 1/2 REBAR
	5.94	941.00				
			3.69	937.31	937.15	PT #58 1/2 REBAR
	5.97	943.28				
			3.52	939.76	939.57	PT #59 1/2 REBAR
	7.87	947.63				
			2.87	944.76	944.55	PT #60 1/2 REBAR
	6.99	951.75				
			3.74	948.01	947.78	PT #61 1/2 REBAR
	6.15	954.16				
		954.16	4.33	949.83	949.57	PT #62 1/2 REBAR SIDESHOT
		954.16	1.77	952.39	E/C+.28 952.11	RM 250 M.C.H.D. BRASSCAP IN H.H. ESTRELLA PKWY & LOWER BUCKEYE RD EL: 952.11

STA	+	HI	-	EL	ADJ
				952.11	
	6.81	958.92			
			3.71	955.21	
	5.51	960.72			
			3.41	957.31	
	5.78	963.09			
			3.57	959.52	
	3.38	962.90			
			5.60	957.30	
	3.92	961.22			
			6.03	955.19	
	3.98	959.17			
			7.08	952.09	E/C.02-
		958.56		952.11	
	6.45	~~945.68~~		953.64	
		958.78	4.92	~~940.74~~	
	5.14	~~945.88~~		952.81	
		957.63	5.97	~~939.91~~	
	4.82	~~944.73~~		951.45	
		955.87	6.18	~~938.55~~	
	4.42	~~942.97~~		949.87	
		956.02	6.00	~~936.97~~	
	6.15	~~943.12~~		951.45	
			4.57	~~938.55~~	

DESC.	42
RM #250 MCHD BRASSCAP IN H.H. ESTELLA PKWY & LOWER BUCKEYE Rd EL.= 952.11	
PT.# 63 1/2 REBAR	
PT. # 64 1/2 REBAR	
PT. # 65 1/2 REBAR	
T.P.	
T.P.	
RM # 250 EL. 952.11	
RM # 250 EL.= 952.11	
PT. # 67 PK NAIL	
PT. # 68 PK NAIL	
PT. # 69 PK NAIL	
PT. # 70 B.C. IN H.H. LOWER BUCKEYE Rd & 157th AVE.	
T.P.	

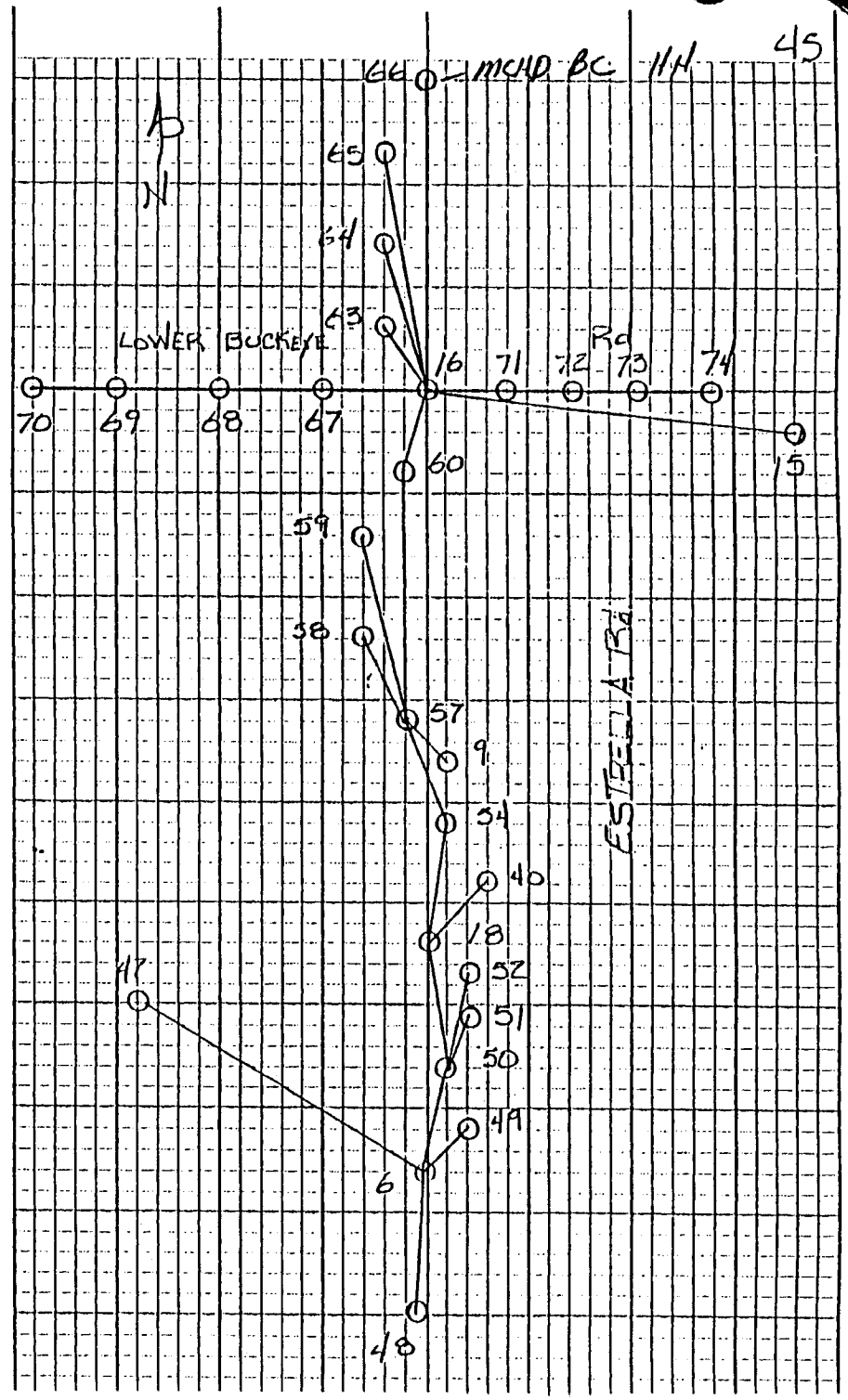
STA	+	HI	-	EL	Adj	DESC.
		951.45 ~~938.55~~				
	6.28	~~944.83~~	957.73	952.81		
			4.92	~~939.91~~		T.P.
		958.97				
	6.16	~~946.07~~		953.65		
		958.44	5.32	~~940.75~~		T.P.
	4.79	~~945.54~~				
			6.33	952.11		RM#250 EL=952.11
				952.11		RM#250
	5.18	957.29				
			6.32	950.97		PT.# 71 1/2 REBAR
	4.98	955.95				
			5.71	950.24		PT.# 72 1/2 REBAR
	5.69	955.93				
			10.55	945.38		PT.# 73 1/2" REBAR
	8.73	954.11				
			3.86	950.25		T.P.
	5.72	955.97				
			4.99	950.98		T.P.
	6.23	957.21				
			5.09	952.12	EL+.02	RM#250 EL=952.11

ESTRELLA RD
TRAVERSE
CONTROL
FOR CROSS SECTIONS

3/5/97

M. HOLLY
T. GREENWALD

PT.#	DESC.
47	TEXAS SPIKE
6	CHISLED CROSS ON EAST SIDE OF RIM OF W.V. COVER
50	SET 1/2" REBAR
18	B.C. IN H.H. BROADWAY & ESTRELLA PKWY S.W. COR. SEC 20
54	SET 1/2" REBAR
57	SET 1/2 REBAR
9	Fd. MCHD B.C. IN H.H. WEST 1/4 SEC 20
60	SET 1/2 REBAR
16	Fd. MCHD B.C. IN H.H. ESTRELLA PKWY & LOWER BUCKEYE Rd. N.W. COR SEC. 20
15	Fd. TEXAS SPIKE
70	Fd. B.C. IN H.H. LOWER BUCKEYE & 157th AVE
74	Fd. 1/2 REBAR NO CAP



TC PT#6 BS. 47
FS PT# 48 SIDESHOT

I	00.00.28	I	180.00.37
D	208.09.91	R	28.10.00
∡	208.09.23	∡	208.09.23
I	00.00.33	I	180.00.37
D	208.09.55	R	28.10.03
∡	208.09.22	∡	208.09.26
M∡	208.09.23 50		
ZD	89.40.30		
ZR	270.19.33		
SUM	360.00.03		
MZ	89.40.28		
S.D.	376.02		
SM	114.61'		

AC PT#6 B.S. PT.#47
F.S. PT.#49 SIDESHOT

I	00.00.43	I	180.00.45
D	32.16.02	R	212.16.03
∡	32.15.19	∡	32.15.18
I	00.00.41	I	180.00.45
D	32.16.03	R	212.16.01
∡	32.15.22	∡	32.15.16
M∡	32.15.19.75		
ZD	90.07.07		
ZR	269.52.46		
SUM	359.59.53		
MZ	90.07.11		
S.D.	637.87		
S.M	194.423		

TC PT-6 BS PT. #47
F.S. PT #50

I	00.00.27	I	180.00.26
D	29.34.37	R	209.34.37
∢	29.34.10	∢	29.34.11
I	00.00.19	I	180.00.23
D	29.34.36	R	209.34.37
∢	29.34.17	∢	29.34.14
M∢	29.34.13		
ZD	89.59.33		
ZR	270.00.25		
SUM	359.59.58		
MZ	89.59.34		
S.D.	122.739		
S.M.	374.109		

TC 50 BS. 6

FS 51 SIDE SHOT

I	00.00.51	I 180.01.00
D	179.33.08	R 359.33.13
∡	179.32.14	∡ 179.32.14
I	00.01.00	I 180.01.00
D	179.33.11	R 359.33.17
∡	179.32.11	∡ 179.32.17
M∡	179.32.14	
ZD	89.51.07	
ZR.	270.08.45	
SUM	359.59.52	
MZ.	59.51.11	
S.D.	602.47	
S.M	183.634	

T@50 BS 6
F.S. 52 SIDESHOT

I	00.00.55	I	180.00.55
D	178.41.28	R	358.41.29
∡	178.40.33	∡	178.40.34
I	00.00.54	I	180.00.55
D	178.41.27	R	358.41.32
∡	178.40.33	∡	178.40.37
M∡	178.40.34		
ZD	89.51.59		
ZR	270.08.03		
SUM	360.00.02		
MZ	89.51.58		
SD	1062.75		
SM	323.926		

T@ 50 P.S. 6
F.S. 18

I	00·01·21	I 180·01·28
D	176·09·45	R 356·09·53
$	176·08·24	$ 176·08·25
I	00·01·31	I 180·01·32
D	176·09·54	R 356·09·57
$	176·08·23	$ 176·08·25
M$	176·08·24.25	
ZD	89·53·30	
ZR	270·06·25	
SUM	359·59·55	
MZ	89·53·33	
S.D.	1398.22	
S.M	426.175	

T@18 B.S 50
F.S. 53 SIDESHOT

I	00.00.49	I	180.00.48
D	173.47.48	R	353.47.54
∡	173.46.59	∡	173.47.06
I	00.00.48	I	180.00.45
D	173.47.45	R	353.47.46
∡	173.46.57	∡	173.47.01
M∡	173.47.01		
Z.D	89.51.07		
ZR	270.09.02		
SUM	360.00.09		
MZ	59.51.02		
S.D.	428.92		
S.M.	130.735		

TP 18 BS.50
F.S. 40 SIDE SHOT

I	00.00.52	I	180.00.56
D	184.09.42	R	4.09.52
∡	184.08.50	∡	184.08.56
I	00.00.51	I	180.00.52
D	184.09.42	R	4.09.45
∡	184.08.51	∡	184.08.53

M∡ 184.08.53

ZD 89.45.21
ZR 270.14.38
SUM 359.59.59
MZ 89.45.21

S.D. 896.17
SM 273.153

TC 18 BS 50
FS 54

		I	180.01.15
I	00.01.11	R	2.53.15
D	182.53.14	∢	182.52.00
∢	182.52.03		
I	00.01.11	I	180.01.15
D	182.53.16	R	2.53.19
∢	182.52.05	∢	182.52.04
M∢	182.52.03		
ZD	89.39.09		
ZR	270.21.50		
SUM	360.00.09		
MZ	89.39.04		
S.D.	1353.94		
S.M	412.686		

T@S4 BS 18

FS 55 SIDESHOT

I	00.01.01	I 180.01.07
D	172.44.10	R 352.44.18
S	172.43.09	S 172.43.11
I	00.01.05	I 180.01.11
D	172.44.11	R 352.44.16
S	172.43.06	S 172.43.05
MS	172.43.07½	
ZD	89.31.04	
ZR	270.29.07	
SUM	360.00.11	
MZ	89.30.58	
SD	461.63	
SM	140.704	

T@ 54 B.S.18
FS 56 SIDESHOT

I	00.01.08	I	180.01.19
P	176.11.56	R	356.12.06
∡	176.10.48	∡	176.10.47
I	00.01.15	I	180.01.22
D	176.12.00	R	356.12.04
∡	176.10.45	∡	176.10.42
M∡	176.10.43.50		
ZD	89.28.30		
ZR	270.31.31		
SUM	360.00.01		
MZ	89.28.30		
S.D.	968.34		
S.M.	295.150		

TeSd BS 18

BS 57

I	00.01.03	I	180.01.07
D	176.29.45	R	356.29.45
☉	176.28.42	☉	176.28.38
I	00.01.00	I	180.01.06
D	176.29.45	R	356.29.45
☉	176.28.45	☉	176.28.39
M☉	176.28.41		
ZD	89.30.51		
ZR	270.29.17		
SUM	360.00.08		
MZ	89.30.47		
S.D.	1326.26		
SM	404.243		

TC: BS 54

F.S. 4 SIDE SHOT

I	00.00.45	I	180.00.45
D	326.00.04	R	146.00.06
∡	325.59.19	∡	325.59.21
I	00.00.45	I	180.00.44
D	326.00.06	R	146.00.09
∡	325.59.21	∡	325.59.25
M∡	325.59.21 50		
ZD	91.02.36		
ZR	268.57.22		
SUM	359.59.58		
MZ	91.02.37		
S.D.	82.72		
S.M	25.213		

TC	7 B 554		
FS	60		
I	00.01.17	I	180.01.25
D	183.13.10	R	3.13.15
∡	183.11.53	∡	180.11.50
I	00.01.19	I	180.01.27
D	183.13.11	R	3.13.17
∡	183.11.52	∡	183.11.50
MZ	183.11.51 25		
ZD	89.38.06		
ZR	270.21.44		
SUM	359.59.50		
MZ	89.38.11		
S.D.	1503.84		
S.M	458.37		
PT'S	ON WITH PT #60		
PT#58	H.D.	500.57	
PT#59	H.D.	1003.41	

TP 60 BS 57
FS 61 SIDE SHOT

I	00.01.18	I	180.01.22
D	178.38.24	R	358.38.26
∡	178.37.06	∡	178.37.04
I	00.01.15	I	180.01.20
D	178.38.20	R	358.38.21
∡	178.37.05	∡	178.37.01
MZ	178.37.04		
ZD	89.39.12		
ZR	270.20.12		
SUM	359.59.54		
MZ	89.39.45		
SD	503.37		
SM	153.426		

TC 60 B557
FS 62 SIDESHOT

I	00.00.48	I	180.00.55
D	178.24.26	R	358.24.32
∡	178.23.38	∡	178.23.37
I	00.00.48	I	180.00.54
D	178.24.23	R	358.24.30
∡	178.23.35	∡	178.23.36
M∡	178.23.36.5		
ZD	89.38.09		
ZR	270.21.41		
SUM	359.59.50		
MZ	89.38.14		
SD	753.13		
SM	229.553		

TC	60 B5 57		
FS	16		
I	00.01.09	I	180.01.09
D	180.52.30	R	00 52.31
☆	180.51.21	☆	180 51.22
I	00.01.04	I	180.01.08
D	180.52.28	R	00.52.27
☆	180.51.24	☆	180.51.19
MZ	180.51 21 50		
ZD	89.36.23		
ZR	270.23.40		
SUM	360.00.03		
MZ	89.36 22		
S.D.	1091.69		
S.M	332.749		

T@ 16 BS 60
FS 63 SIDESHOT

I	00.01.25	I	180.01.34
D	173.24.55	R	353.25.00
☆	173.23.30	☆	173.23.26
I	00.01.24	I	180.01.29
D	173.24.49	R	353.24.55
☆	173.23.25	☆	173.23.26
MZ	173.23.26 72		
ZD	89.41.59		
ZR	270.18.04		
SUM	360.00.03		
MZ	89.41.57		
S.D.	511.70		
SM	155.967		

TC 16 B 560

FS 64 SIDE SHOT

I	00.01.28	I	180.01.33
D	175.24.27	R	355.24.28
∡	175.22.59	∡	175.22.56
I	00.01.30	I	180.01.36
D	175.24.25	R	355.24.32
∡	175.22.55	∡	175.22.56

M∡ 175.22.56 25

ZD 89.35.42
ZR 270.24.24
SUM 360.00.06
MZ 89.35.39

S.A 1004.27
SM 306.102

TE/6 B560
FS 65 SIDESHOT

I	00.02.00	I	180.02.13
D	176.08.08	R	356.08.11
∡	176.06.08	∡	176.05.58
=	00.02.06	I	180.02.13
D	176.08.11	R	356.08.14
∡	176.06.05	∡	176.06.01
MZ	176.06.03		
ZD	89.45.20		
ZR	270.14.50		
SUM	360.00.10		
MZ	89.45.15		
S.D.	1509.96		
S.M	460.238		

TE	16	BS60	
FS	66	SIDE SHOT	
I	00.02.07	I	180.02.10
D	177.30.29	R	357.30.38
∡	177.28.22	∡	177.28.28
I	00.02.02	I	180.02.13
D	177.30.30	R	357.30.36
∡	177.28.28	∡	177.28.23
MZ	177.28.25 25		
ZD	2941.22		
ZR	270.18.40		
SUM	360.00.02		
MZ	29.41.21		
S.D.	1799.99		
S.M.	548.63 8		

TC16	BS 60		
F.S.	70		
I	00.02.40	I	180.02.41
D	88.18.02	R	268.18.08
∡	88.15.22	∡	88.15.27
I	00.02.40	I	180.02.46
D	88.18.01	R	268.18.08
∡	88.15.21	∡	88.15.22
M∡	88.15.23		
ZD	90.05.32		
ZR	269.51.19		
SUM	359.59.51		
MZ	90.05.37		
S.D.	1838.63		
S.M.	560.417		
	PT'S ON LINE WITH PT#70		
#67	H.D	499.34	
#68	H.D.	1000.90	
#69	H.D.	1503.23	

T@16 BS 60
F.S. 15

I	00.01.34	I	180.01.36
D	268.59.09	R	88.59.14
☿	268.57.35	☿	268.57.38
I	00.01.35	I	180.01.43
D	268.59.09	R	88.59.13
☿	268.57.34	☿	268.57.30
M☿	268.57.34 25		
ZD	90.07.28		
ZR	269.52.31		
SUM	359.59.59		
MZ	90.07.28		
S.D.	2913.23		
SM	887.955		

TC 16 BS 60
FS 74 Fd 1/2 REBAR NO CAP

I	00.01.46	I	180.01.53
D	Z68.16.19	D	88.16.24
∡	Z68.14.33	∡	Z68.14.31
I	00.01.17	I	180.01.25
D	268.15.48	R	88.15.53
∡	Z68.14.31	∡	Z68.14.28
MZ	Z68.14.30 75		
ZD	90.08.11		
ZR	Z69.51.50		
SUM	360.00.01		
MZ	90.08.11		
S.D.	2630.06		
S.M	801.644		

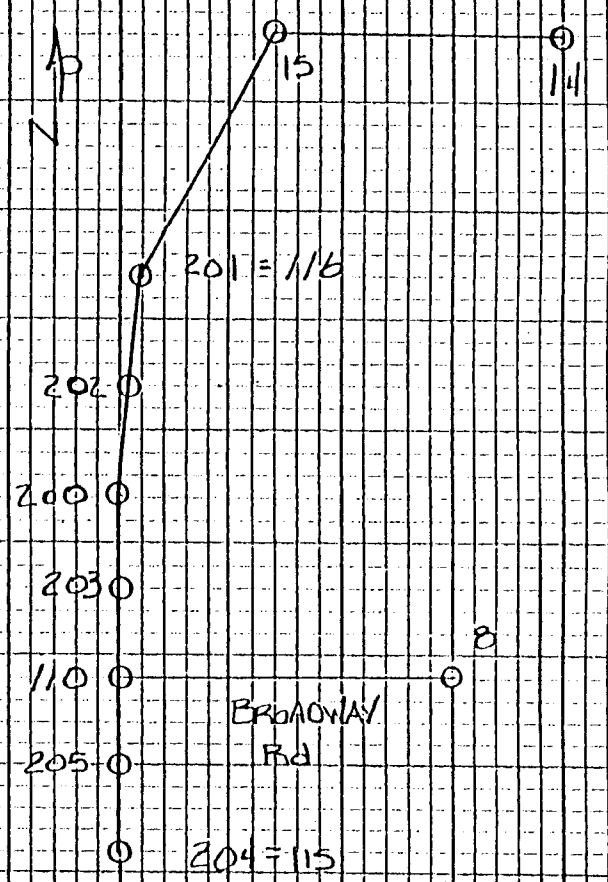
PT'S ON LINE WITH PT #74

#71	H.D.	500.14
#72	H.D.	1005.65
#73	H.D.	1504.72

BULLARD
WASH
TRAVERSE

R. LLEWELLYN
P. BORCHIE

PT#	DESC.
14	NE COR. SEC. 20 Fd. 1" SQUARE IRON BAR
15	Fd TEXAS SPIKE
201	SET TEXAS SPIKE = PT.# 116 PER. PT. SHEET
202	" " "
200	" " "
203	
110	Fd TEXAS SPIKE
205	SET TEXAS SPIKE
204	SET TEXAS SPIKE = PT.# 115 PER PT. SHEET
8	Fd. TEXAS SPIKE



TC	PT# 15	B.S. PT.# 14		
F.S.	PT# 201			
I	00.01.56			
1	133.58.35			
2	267.55.01			
4	174.48.04			
M$	133.56.31			
Z.O	90.20.57			
Z.R	269.10.10			
MZ	90.20.24			
	PT+OPT	S.D.FT	S.D.M.	
	15-201	1205.315	367.39	

T@ PT.#201 B.S. PT.#15
F.S. PT.#200 T/LOR. PT.#202

I	00.03.01
1	152.38.15
2	305.12.59
4	250.22.55
M.J	152.24.58

TE PT. # 200 B.S. PT # 201
F.S. PT. # 203

I	00.02.22				
1	164.5[illegible].22				
2	[illegible].4.13				
M ∂	164.5[illegible].02				

PT. TO PT.	S.D.F.T.	S.D.M	Z.D.	Z.R.	Z.M
200-201	211677	645.200	89.45.57	—	—
200-203	882.140	268.877	70.41.52	282.46.05	90.14.[illegible]
200-302	839515	255.[illegible]	87.34.10	270.26.42	87.33.44

TEP 1.4203 B.S.T.200
F.S. 110

I	00.03.15
1	180.03.32
2	0.03.03
M*	180.00.21
ZD	90.43.52
ZR	269.16.47
ZM	90.43.32
S.D.AT	143.05
S.D.MET.	138.62

TO PT# 110 S.O. PT# 2
TO PT# 204

I	00.02.55
I	90.14.12
P	180.25.16
MS	90.11.35.50

PI TO PT.
110-204

ZD	90.08.27
ZR	267.52.07
ZM	90.08.20
SD FT	2660.25

TL	7.13.40
T	268.47.45
ZM	90.12.57.50
SD FT	1286.20

BULLARD
WASH
LEVEL
LOOP

4/7/97
M.HOLLY
T. GREENWALD

STA	+	HI	−	EL	ADJ.	DESC.
				945.38		PT.#73 SEC. PG. 45
	6.05	951.43				
			6.72	944.71		T.P 60D NAIL
	4.74	949.45				
			6.48	942.97		1/2" Rebar N. 1/4 COR. SEC. 20
	4.84	947.81				
			3.51	944.30		PT.# 118 TEXAS SPIKE
	2.37	946.67				
			5.87	940.80		T.P 60D NAIL
	5.66	946.46				
			5.02	941.44		PT.# 201 TRAV. PT.# PT#116
	5.38	946.82				
			3.65	943.17		T.P. 60D NAIL
	6.42	949.59				
			3.53	946.06		TRAV PT.# 202
	3.69	947.75				
			6.08	943.17		T.P. 60D NAIL
	3.61	946.78				
			5.34	941.44		T.P. 60D NAIL
	5.10	946.54				
			5.74	940.80		T.P. 60D NAIL
	6.22	947.02				
			2.13	944.89		" " "
	4.25	949.14				
			4.39	944.75		" " "
	6.65	951.40				

STA	+	HI	-	EL	ADJ	DESC.
		21.10				
			6.00	95.40	E/C.02+	PT#-73

4-8-97

Stc	+	Hi	-	Elev	Adj	Desc
#202	4.58			946.06		Trav Pt #202 Set PS 76 This Book
		50.64				
			7.71			
TP-1	7.75			942.93		GOOD Nail
		50.68				
			4.62			
#202				46.06	EL 0.00	
TP-1	4.04			942.93		TP-1 Set Above
		46.97				
			8.19			
#200	5.05			38.78		Trav. #200 Bridge Spike
		43.83				
			6.48			
TP-2	6.13			37.35		GOOD Nail
		43.48				
			7.58			
#203	7.64			35.90		Trav Pt #203 Bridge Spike
		43.54				
			6.19			
TP-3	5.37			37.35		GOOD Nail
		42.72				
			4.58			
TP-4	8.83	46.97		38.14		GOOD Nail
TP-1			4.04	42.93		TP-1

Sta	+	Hi	−	Elev	Adj	Desc
RM 269	7.26			913.18		RM #269 RCHH Sec 8 40 This book
		920.44				
			3.81			
TP-5	6.08			916.63		GOD Nail
		922.71				
			4.88			
TP-6	5.32			917.83		GOD Nail
		923.15				
			4.32			
# 110	5.29			918.83		Trav Pt #110 (4) Bridge Spike (Downhill Rail)
		924.12				
			5.98			
TP-7	3.63			918.14		Hub
		921.77				
			4.89			
TP-8	3.95			916.88		Hub
		920.73				
			5.97			
# 205	5.37			914.76		Trav Pt # 205 Bridge Spike
		920.13				
			5.41			
TP-9	4.08			914.72		Hub
		918.80				
			5.41			
TP-10	4.84			913.39		Hub
		918.23				

Sta	+	Hi	−	Elev	Adj	Desc.
		918.23				
			5.62			
A 114	5.00			912.61		Traverse Pt #114 (A) Bridge Spike
		917.61				(#204)
			4.64			
#206	6.81			912.97		Traverse Pt #206 Bridge Spike
		919.78				
			4.59			
TP-11	4.30			915.19		60D Nail
		919.49				
			7.43			
TP-12	5.57			912.06		60D Nail Hub
		917.63				
			5.80			
TP-13	3.14			911.83		Hub
		914.97				
			4.08			
#6				910.89	910.84	Iron Water Valve Box Rim (See pg 40 This Bk.
					EC. +0.05	

SOKKIA™

SOKKIA™ 322

ENGINEER'S FIELD BOOK

5/29/97
M. HOLLY
T. GREENWALD
B. BRACKIE

M.C. 85
&
E STRELLA PKWY
INVERTS, M.H.'S & WATER VALVES

#	FLOW DIRECT	SIZE	DOWN	DESC.
1183				RUSTED SHUT
1183	E.TOW	12"	10.38	BULLARD WASH ALINEMENT SAN.SEWER
6	—	—	0.96	WATER VALVE TOP OF NUT
356	—	—	3.58	WATER VALVE T.O.N.
784	E.TOW.	12"	7.49	SAN.SEWER M.H. (ESTRELLA RD)
785				RUSTED SHUT
786	—	—	3.70	W.V. T.O.N.
788	—	—	2.40	W.V. T.O.N.
787	—	—	2.09	W.V. T.O.N.
242	N.TO.S	12"	7.27	SAN.SEWER (M.C. 85)
1121	N.TO.S	12"	12.88	" " (ESTRELLA)
980	N.TO.S.	12"	9.15	" " " "
1130	—	—	0.90	W.V. T.O.N.
1131	—	—	4.40	" " "
1234	N.TO.S.	12"	13.59	SAN. SEWER (ESTRELLA)
1282	N.TO.S	12"	14.30	" " "
1282	EAST	8"	14.10	" " "
1282	WEST	8"	7.00	" " "
1339	N.TO.S.	12"	14.86	" " "
1433	N.TO.S.	12"	14.18	" " "
1433	N.INV.	12"	11.30	" " "
1433	W.INV.	12"	13.72	" " "
1433	E.INV.	12"	13.92	" " "
1542	N.TO.S	12"	9.83	SAN. SEWER M.H. (ESTRELLA)
1542	E.INV.	8"	7.69	" " " "
1542	W.INV.	8"	9.79	" " " "

#	FLOW DIRECT.	SIZE	DOWN	DESC.
1593	N.TO.S.	12"	11.18	SAN. SEWER (ESTRELLA)
1593	E.INV.	8"	10.91	" " "
1593	W. INV.	8"	10.90	" " "
1672	—	—	4.5	W.V. T.O.N.
1673	—	—	4.5	" " "
1715				SPRINT TELE MH (LOCKED CAN'T OPEN)
1743	N.TO.S.	12"	15.60	SAN. SEWER M.H.
1743	WEST.INV	8.	15.43	" " "
1790	N.TO.S.	12"	15.76	" " "
1790.	W.INV.	8"	15.62	" " "
1979	E.TO.S	12"	19.42	" " "
2277	W.TO.E.	12"	18.50	" " "
2277	N.INV.	8"	18.28	" " "
2307	W.TO.E.	12"	18.90	" " "
216	N.S.&E.	12	23.65	SAN. SEWER ESTR. & LOWER BUCKEYE PKWY
2256	—	—	13.90	U.S. WEST FIBER OPTIC
2415	—	—	10.55	BELL SYSTEM
2397	—	—	19.65	U.S. WEST FIBER OPTIC
2290	—	—	16.67	" " " "
1453	—	—	11.61	BELL SYSTEM MH
1587	—	—	9.10	U.S. SPRINT FIBER OPTICS
1584	—	—	13.15	U.S. WEST FIBER OPTICS
2058	—	—	1.57	MONITORING WELL

SOKKIA™

SOKKIA™ 322

ENGINEER'S FIELD BOOK

5/29/97
M. HOLLY
T. GREENWALD
B. BROCKIE

M.C.85
"
ESTRELLA PKWY
INVERT, M.H.'S & VALVES

#	FLOW DIRECT	SIZE	DOWN	DESC.
1183				RUSTED SHUT
1183	E.TOW	12"	10.38	BULLARD WASH ALINEMENT SANSEWER
6	—	—	0.96	WATER VALVE TOP OF NUT
356	—	—	3.58	WATER VALVE T.O.N.
784	E.TOW.	12"	7.49	SAN.SEWER M.H. (ESTRELLA RD)
785				RUSTED SHUT
786	—	—	3.70	W.V. T.O.N.
788	—	—	2.40	W.V. T.O.N.
787	—	—	2.09	W.V. T.O.N.
242	N.TO.S	12"	7.27	SAN.SEWER (M.C. 85)
1121	N.TO.S	12"	12.88	" " (ESTRELLA)
980	N.TO.S.	12"	9.15	" " " "
1130	—	—	0.90	W.V. T.O.N.
1131	—	—	4.40	" " "
1234	N.TO.S.	12"	13.59	SAN. SEWER (ESTRELLA)
1282	N.TO.S	12"	14.30	" " "
1282	EAST	8"	14.10	" " "
1282	WEST	8"	7.00	" " "
1339	N.TO.S.	12"	14.86	" " "
1433	N.TO.S.	12"	14.18	" " "
1433	N.INV.	12"	11.30	" " "
1433	W.INV.	12"	13.72	" " "
1433	E.INV.	12"	13.92	" " "
1542	N.TO.S	12"	9.83	SAN. SEWER M.H. (ESTRELLA)
1542	E.INV.	8"	9.65	" " " "
1542	W INV	8"	9.79	" " " "

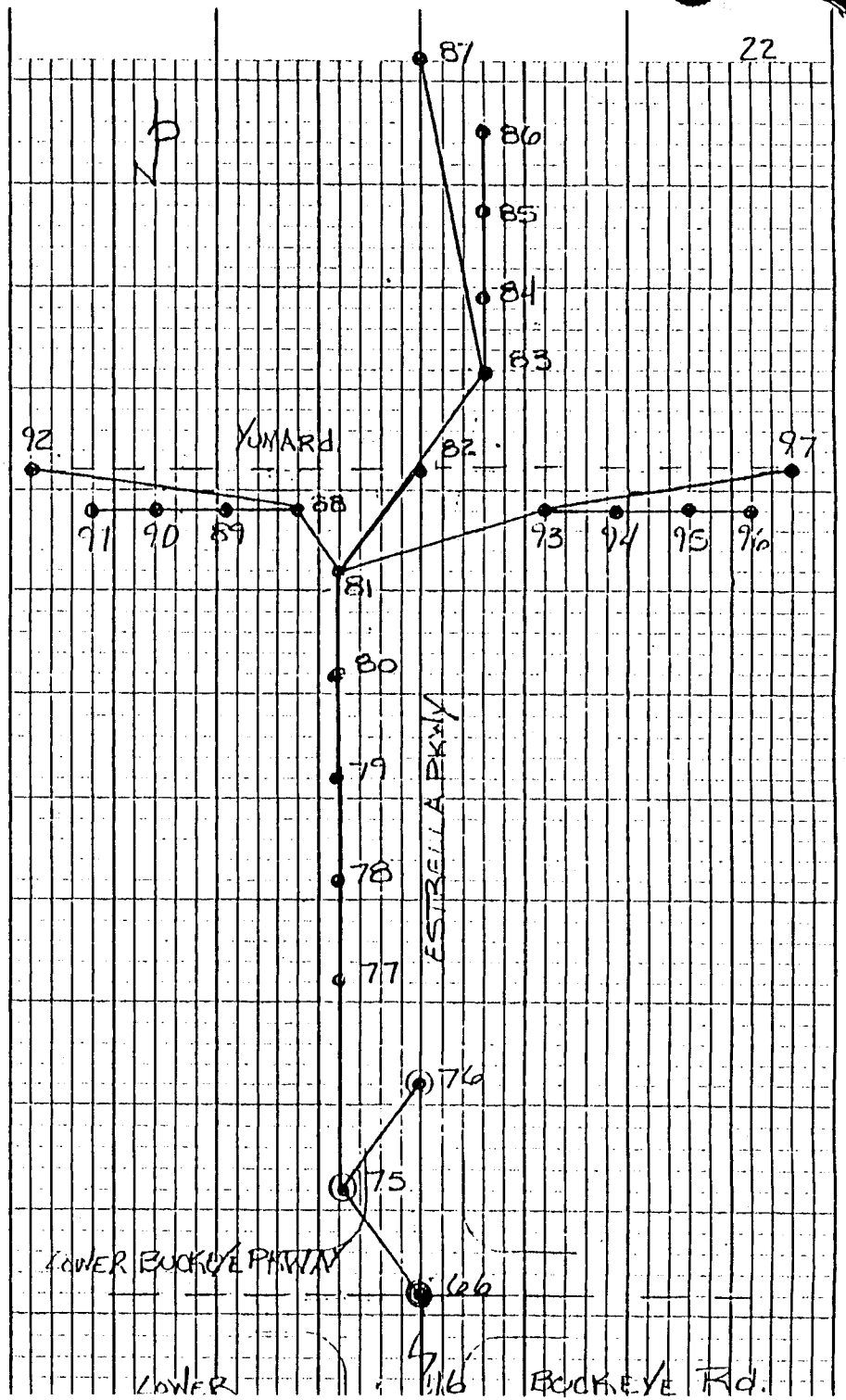
#	FLOW DIRECT.	SIZE	DOWN	DESC.
1593	N.TO S.	12"	11.18	SAN. SEWER (ESTRELLA)
1593	E. INV.	8"	10.91	" " "
1593	W. INV.	8"	10.90	" " "
1672	—	—	4.5	W.V. T.O.N.
1673	—	—	4.5	" " "
1715				SPRINT TELE MH (LOCKED CANTOPEN)
1743	N.TO S.	12"	15.60	SAN. SEWER M.H.
1743	WEST INV	8.	15.43	" " "
1770	N.TO S.	12"	15.76	" " "
1790.	W. INV.	8"	15.62	" " "
1979	E.TO S	12"	19.42	" " "
2277	W.TO E.	12"	18.50	" " "
2277	N. INV.	8"	18.28	" " "
2307	W.TO E.	12"	18.90	" " "
216	N.S.TO E	12	23.65	SAN. SEWER ESTR. & LOWER BUCKEYE PKWY

ESTRELLA RD.
TRAVERSE
UNION
FOR
CROSS
SECTIONS

3/17/97

M. HOLLY
P. BROOKIE

PT.#	DESC.			
16	Fd MCHD B.C. IN H.H.			
66	Fd MCHD B.C. IN H.H			
75	SET ½" REBAR TRAV.PT.			
76	Fd MCHD B.C. IN H.H			
77	SET ½" REBAR TRAV.PT.			
78	"	"	"	
79	"	"	"	
80	"	"	"	
81	"	"	"	
82	Fd STM OF BROKEN [illegible]			
83	SET ½" REBAR TRAV.PT.			
84	"	"	"	"
85	"	"	"	"
86	"	"	"	"
87	Fd MCHD [illegible] IN [illegible]			
88	SET ½" REBAR TRAV.PT.			
89	"	"	"	"
90	"	"	"	"
91	"	"	"	"
[illegible]	Fd. COTTON PICKER SPINDLE			
93	SET ½" REBAR TRAV.PT.			
94	"	"	"	"
95	"	"	"	"
96	"	"	"	"
97	Fd. COTTON PICKER SPINDLE			



T@	PT.#66 & RT.	BS.#16	FS.	PT.#75
INDEX	00.05.26			
1	176.07.10			
2	352.08.57			
4	344.12.30			
MX	176.01.46			
ZD	87.51.04			
ZR	270.05.54			
SUM	357.57.58			
MZ	87.54.05			
S.D.E.	479.67			
SDM	133.305			

TC	75	B.S. 66	F.S. 76	
	& RT.			
INDEX	00.06.59			
1	189.41.35			
2	19.16.14			
4	38.25.32			
MX	189.34.38			
ZO	89.52.29			
ZR	270.07.45			
SUM	360.00.14			
MZ	89.52.22			
S.D.F.T	354.40			
S.D.M	105.020			

TOTS E.S.66 45.81
Y PT
INDEX 00.07.08
1 [illegible]
2 7.30.17
4 15.35.06
MY 183.51.30
PT.577 THOR.GOONLINE

PT.TO PT.	75-77	75-78	75-79	75-80	75-81
ZD	—	—	—	—	89.49.48
ZR	—	—	—	—	270.10.18
SUM	—	—	—	—	360.00.36
MZ	—	—	—	—	89.49.30
S.O.FT.	—	—	—	—	250.16
S.O.M.	—	—	—	—	762.355
H.O.FT.	499.85	1001.22	1499.97	1999.85	

TC 81 B.S. 75 F.S. 82 SIDE SHOT

	∡RT.
INDEX	00.03.17
1	184.31.57
2	9.00.05
4	17.57.06
M∡	184.28.27
ZO	89.43.24
ZR	270.17.11
SUM	360.00.35
M∡	89.43.06
S.O.F.T.	502.94
S.O.M	153.295

TG 81	BS 15	FS 85	
	↑RT.		
INDEX	00.03.40		
1	184.25.47		
2	8.49.48		
4	17.35.46		
M*	184.23.00		
ZD	89.50.16		1
ZR	270.09.59		
SUM	360.00.15		
MZ	89.50.09		
S.RET	997.62		
SOM	304.074		

TC	83	F.S. 81	F.S. 87
	% FIT		
INDEX	00:06:18		
1	176:25:53		
2	352:45:40		
4	345:24:54		
MX	176:19:39		
ZD	89:46:15		
ZR	270:14:12		
SUM	360:00:27		
MZ	89:46:01		
SDFT	2144.48		
SDM	653.637		

	T283	ES 81	FS 86	
	℄ RT.			
INDEX	000.00.01			
1	177.07.17			
2	351.09.20			
4	348.12.17			
M ℄	177.02.04			
ZD	89.49.54			
ZR	270.10.22			
SUM	360.00.22			
MR	89.49.43			
SDFT	1800.03			
SDIA	548.647			
	PT.'S	84 & 85 ON LINE		
PT. TO PT	83-84	83-85		
H.D.FT	600.13	1200.27		

TC 81	B.S. 75	F.S.	F.S. 88
	∡RT.		
INDEX	00.04.05		
1	137.05.56		
2	274.07.56		
4	188.11.56		
M∡	137.01.58		
ZO	89.38.43		
ZR	270.21.18		
SUM	360.00.01		
M∡Z	89.38.43		
SDET	657.75		
SDM	200.432		

TC 81	B.S 75	FS. 93			
	★RT				
INDEX	00.04.55				
1	228.55.39				
2	97.46.42				
4	195.28.38				
M★	228.50.56				
ZD	89.53.51				
ZR	270.05.47				
SUM	359.59.38				
MKZ	[illegible]				
SDFT	693.55				
SDM	211.395				

TC 88 B.S. 81 F.S. 92

	∡RT.			
INDEX	00.07.56			
1	135.22.32			
2	270.37.40			
4	181.07.26			
M∡	135.14.53			
TC 88 B.S. 81				
∡RT # 91				
I	00.09.40			
1	134.45.25			
2	269.21.09			
4	178.37.30			
M∡	134.35.43			
	PT'S 89 & 90 ON LINE			
PT. TO PT.	88-92	88-91	88-90	88-89
ZD	90.00.01	90.02.12	—	—
ZR	269.57.46	269.57.24	—	—
SUM	359.39.47	359.59.36	—	—
MZ	90.00.08	90.02.24	—	—
SDFT	2097.31	1800.66	—	—
SDM.	639.267	548.842	—	—
H.D.FT.			1200.68	597.81

T@	93	BS 81	F.S.	97
	☆RT			
I	00.00.55			
1	221.53.03			
2	23.39.07			
4	167.10.53			
M☆	221.46.00			

T@	93	B.S. 81	F.S.	96
	☆RT.			
I	00.04.20			
1	222.25.42			
2	24.46.54			
4	169.29.08			
M☆	222.21.12			

PT. TO PT.	93-97	93-96	93-95	93-94
Z.D	90.06.52	90.07.09	—	—
ZR	269.53.15	269.52.50	—	—
SUM	360.00.07	359.59.59	—	—
MZ☆	90.06.47	90.07.10	—	—
SDFT	2103.57	1201.33	—	—
SDM	641.172	549.042	—	—
H.D.FT			1200.48	600.80

LEVEL LOOP ESTRELLA FIRM EXT. 6/18/97 M. HOLLY P. BROCKIE

STA	+	HI	−	EL.	DESC.
				959.52	1/2" REBAR TRAV PT #65 SEE BK #319 PG. 42
	6.89	966.41			
			4.92	961.49	60 D NAIL
	5.76	967.25			
			5.74	961.51	TRAV PT #75 1/2" REBAR
	5.89	967.40			
			4.76	962.64	TRAV. PT #77 1/2" REBAR
	6.11	968.75			
			4.53	964.22	TRAV. PT #78 1/2" REBAR
	6.14	970.36			
			4.78	965.58	TRAV. PT #77 1/2" REBAR
	6.49	972.07			
			4.14	967.93	TRAV. PT #80 1/2" REBAR
	6.42	974.35			
			4.51	969.84	TRAV. PT #81 1/2" REBAR
	6.23	976.07			
			4.25	971.82	TRAV. PT #82 M.C.H.D 3.0. IN HH
	4.13	975.95			
			6.11	969.84	T.P. #81
	4.10	974.04			
			6.61	967.93	T.P. #80
	3.82	971.75			
			6.17	965.58	T.P. #79
	4.07	969.65			
			5.42	964.23	T.P #78
	4.19	969.41			

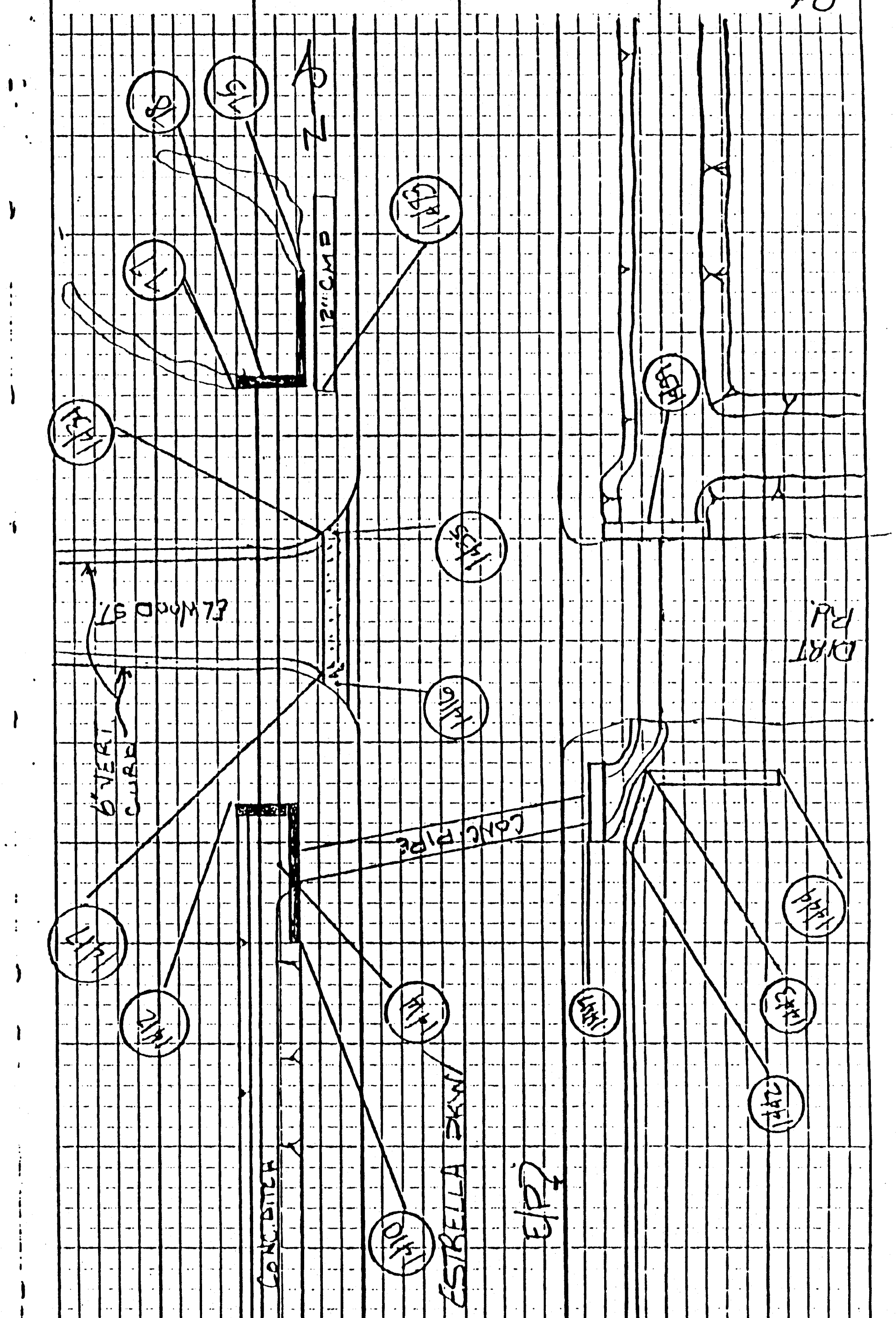
STA	+	HI	-	EL		DESC
		968.41				
			5.78	962.63		T.P. 77
	4.78	967.41				
			5.92	961.49		T.P. #76
	4.72	966.41				
			6.70	959.71		T.P. #66 M.C.H.D. R.C. IN. H.H
	6.23	965.94				
			6.43	959.51	E.C.-0.01	TRAY. PT. #[illegible] EL= 959.52
				971.82		TRAY. PT. #82
	6.85	978.67				
			4.68	973.99		TRAY. PT. #88 1/2" REBAR
	4.83	978.82				
			5.72	973.10		TRAY. PT. #89 1/2" REBAR
	5.13	978.23				
			5.21	973.02		TRAY. PT. #90 1/2" REBAR
	5.45	978.47				
			5.73	972.74		TRAY. PT. 91 1/2" Rebar
	6.02	978.76				
			5.73	973.03		T.P. #90
	5.71	978.74				
			5.63	973.11		T.P. #89
	6.10	979.21				
			5.22	973.99		T.P. #88
	3.05	979.1				

STA	+	HI	-	EL		DESC.
		977.94				
			6.10	971.84	E.C. +0.02	TRAV. PT# 82 EL.= 971.82
				971.82		TRAV. PT# 82
	6.02	977.90				
			5.04	972.86		TRAV. PT. # 83 1/2 REBAR
	6.99	979.85				
			4.69	975.16		TRAV. PT# 84 1/2" REBAR
	6.55	981.71				
			4.66	977.05		TRAV. PT. #85 1/2" REBAR
	6.87	982.92				
			4.73	979.19		TRAV. PT. #86 1/2 REBAR
	4.87	984.06				
			7.01	977.05		T.P. # 85
	4.87	981.92				
			6.76	975.16		T.P. # 84
	4.55	979.71				
			6.85	972.86		T.P. # 83
	4.77	977.63				
			5.82	971.81	E.C. -0.01	TRAV. PT # 82 EL.= 971.82

STA	+	H.I	-	EL		DESC
				971.82		TRAV PT. #92
	5.02	976.84				
			5.78	971.06		TRAV. PT. #93 1/2" REBAR
	5.31	976.37				
			6.17	970.20		TRAV. PT. #94 1/2 REBAR
	5.79	975.99				
			6.55	969.44		TRAV. PT. #95 1/2" REBAR
	5.68	975.12				
			7.44	967.68		TRAV. PT. #96 1/2" REBAR
	7.56	975.24				
			5.80	969.44		T.P. #95
	6.18	975.62				
			5.42	970.20		T.P. #94
	5.73	975.93				
			4.87	971.06		T.P. #93
	5.37	976.43				
			4.63	971.80	E.G.002	TRAV. PT. #82

N
BARGE CANAL
CONC
SIDEWALK
ESTRELLA
PIER
101
102
103
104
105
106
107
108

N
ESTRELLA PKWY
SPILLWAY
36" CMP
DIRT ROAD
GAME DRIVE
EMERGENCY
DIRT ROAD


12" CMP
ELWOOD ST.
6" VERT. CURB
CONC PIPE
ESTRELLA PKWY
DIRT RD.
E/P2

DIRT
DIRT
TUMA
RD
ESTRELLA
1083

18' RCP
8" PIPE
WELL
18' RCP
DOUGLAS RD

N
LOWER BUCKEYE RD.
30" CONC. PIPE
CONC. PIPE
23+00
23+15
23+30
23+45
23+60
23+75
23+90
24+05
24+20
24+35
24+50

ESTRELLA PKWY
12" CNC
PTWC "A"
DIRT PARKING
HOUSE
GATE
N
2/6
2/7
2/8
2/9
2/10
2/11
2/12
2/13
2/14
2/15
2/16

LOWER BRIDGE PKWY
UPPER COVE
TRELLA
N

N
STRELLA PKWY
LONG OFFICE
DIRT RD
12" CMP
12" CMP
CR
4.20
4.20
4.23
4.28
4.30
4.31
4.34
4.36
4.40
4.41
4.44
4.45
4.47
4.48
4.50
4.14
4.21
4.43

N
CONC. DITCH
PUMP
CASTELLA
PKWY
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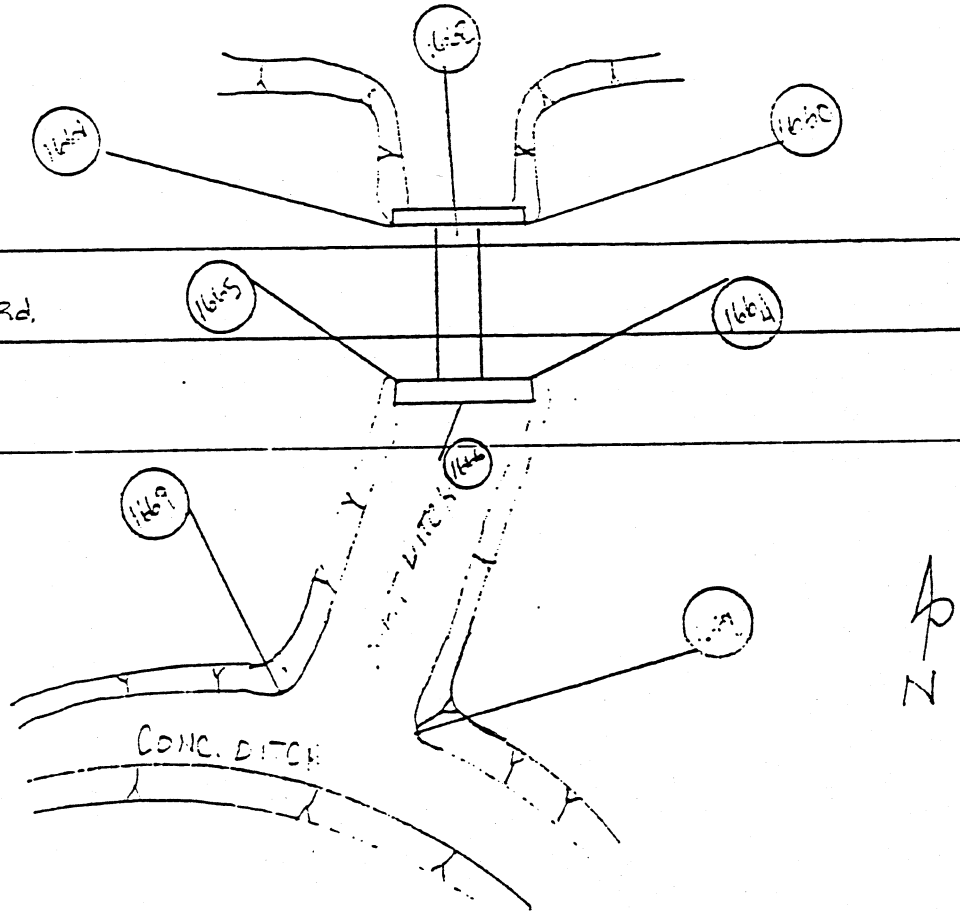
YUMA Rd.
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CHECKED BY DATE

SCALE N/A

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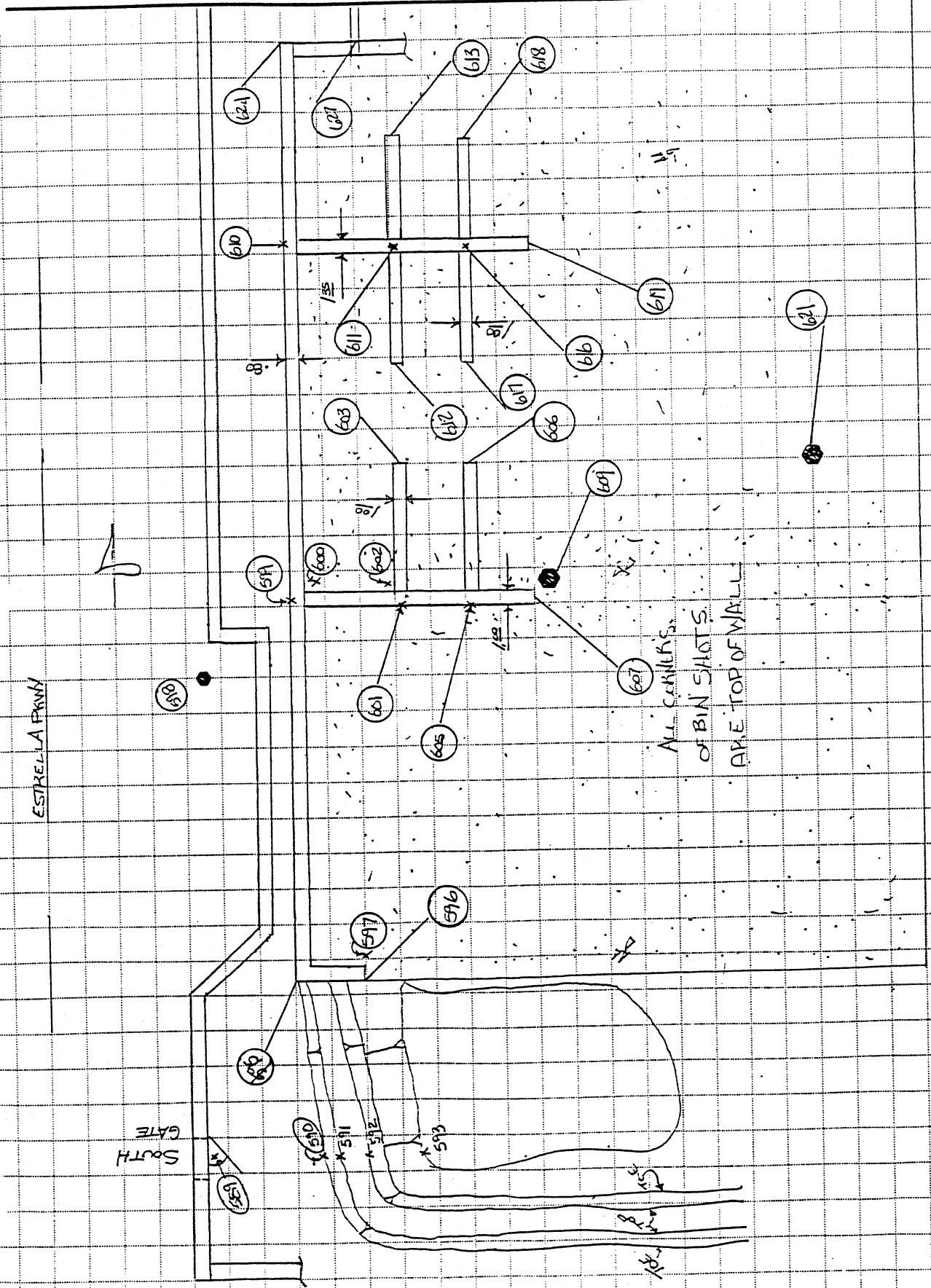

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DATE 2/98
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DATE
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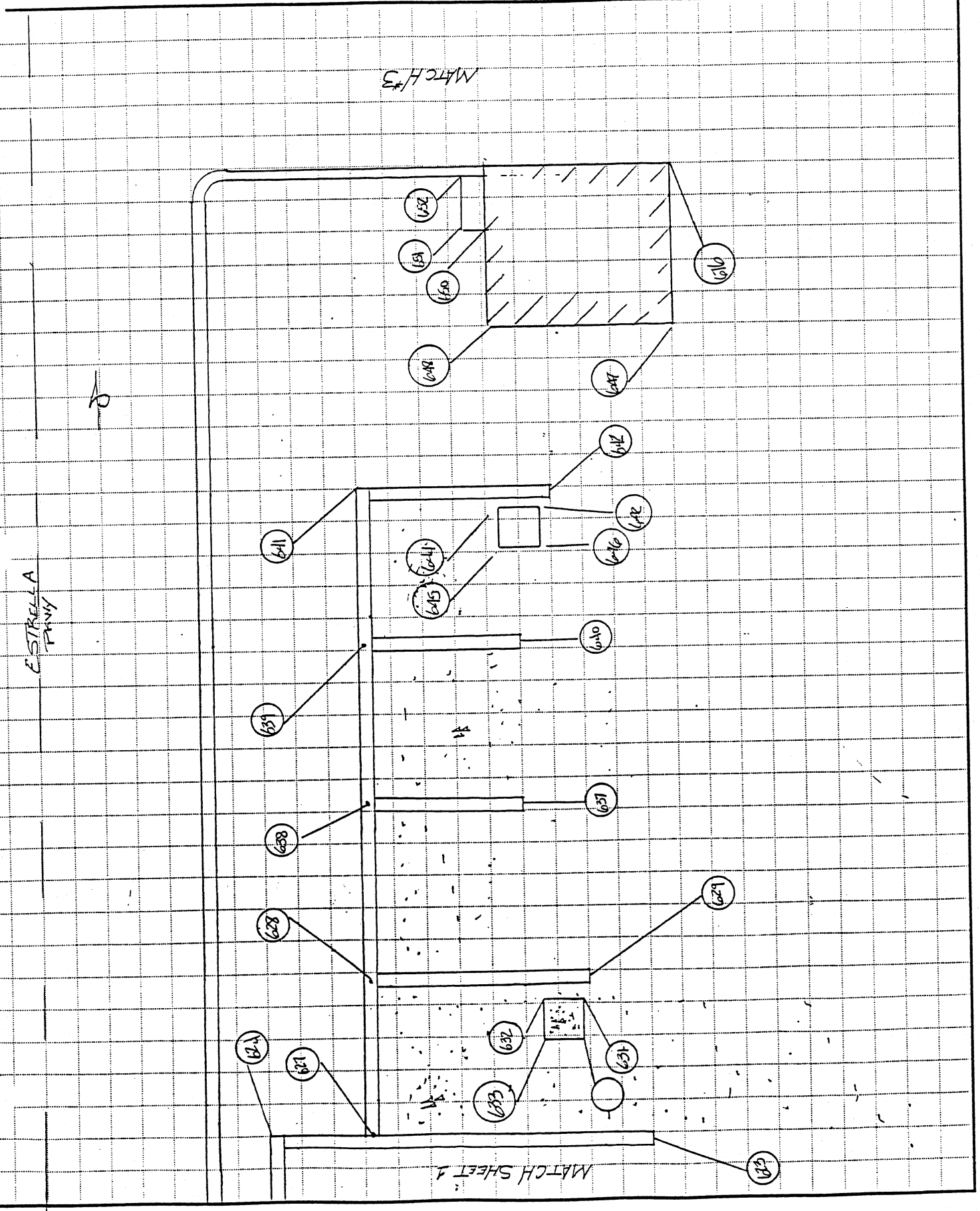

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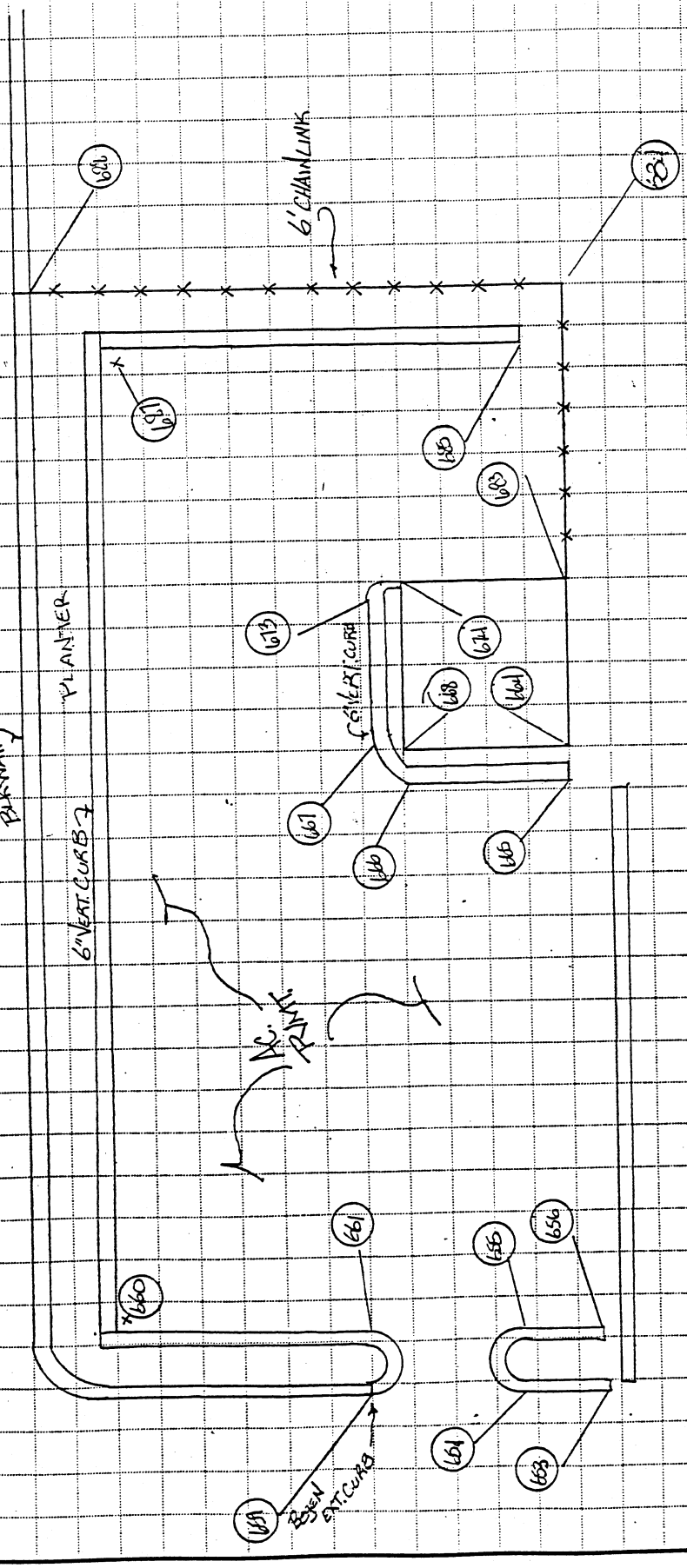
CALCULATED BY DATE 2/98

CHECKED BY DATE

SCALE N/A



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(602) 437-3733

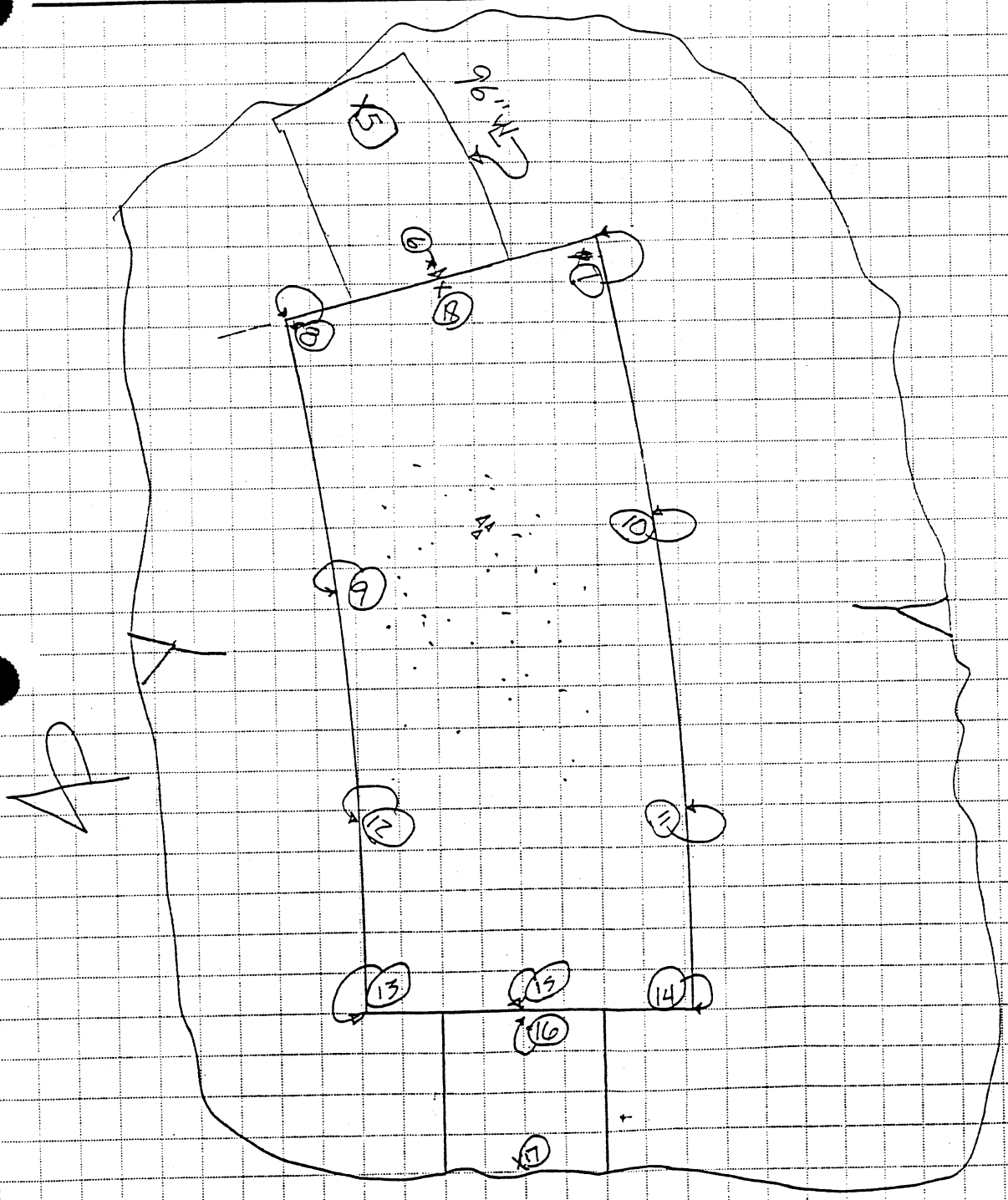
JOB BULCHRD WASH 76 W Conc. Cap

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE _____



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96IN.CR5 03/09/98 11:09:57

Point	Northing	Easting	Elevation	Description
1	42,021.2704	46,115.2016	912.69	TRAV.PT.
2	41,682.6031	44,751.5885	913.30	TRAV PT 48
3	42,058.6105	44,753.8121	910.84	TRAV PT 6
4	41,697.9716	46,185.4312	914.08	PT 4 APS MH
5	41,695.1394	46,202.9419	905.57	C/L TOP 96 IN.
6	41,693.0923	46,216.2645	905.68	C/L TOP 96 IN.
7	41,699.0797	46,217.6286	906.95	COR TOP CONC
8	41,687.1239	46,216.0057	906.99	COR TOP CONC
9	41,680.2675	46,262.8796	906.99	EDGE TOP CONC
10	41,692.3682	46,264.0946	906.99	EDGE TOP CONC
11	41,688.9139	46,315.1071	906.97	EDGE TOP CONC
12	41,676.8062	46,315.4750	906.97	EDGE TOP CONC
13	41,679.1619	46,358.6712	906.99	COR TOP CONC
14	41,691.1743	46,357.6032	906.98	COR TOP CONC
15	41,685.0766	46,358.1268	906.97	C/L EDGE TOPCONC
16	41,685.5517	46,361.1461	905.56	C/L TOP 96 IN.
17	41,686.3678	46,367.8359	905.60	C/L TOP 96 IN.
18	41,693.0309	46,216.8572	906.97	C/L EDGE TOPCONC

Appendix D Hydrologic Analysis Supporting Documentation

This appendix documents the hydrologic information on Bullard Wash Channel drainage area and East Tributary Channel drainage area. The hydrologic information on the interior drainage analysis can be found in Appendix D of TDN Volume 2.

Appendix D1 Precipitation Data

The precipitation data are from WLB's White Tanks ADMS (WLB, 1992) from which the effective FIS maps were generated by WLB (1992).

Appendix D2 Physical Parameters

The physical parameters data are from WLB's White Tanks ADMS (WLB, 1992) from which the effective FIS maps were generated.

Appendix D3 Hydrograph Routing Data

The hydrograph routing data are from WLB's White Tanks ADMS (WLB, 1992) from which the effective FIS maps were generated.

Appendix D4 Reservoir Routing Data

The reservoir routing data are from WLB's White Tanks ADMS (WLB, 1992) from which the effective FIS maps were generated.

Appendix D5 Flow Split and Diversion Data

The flow split and diversion data are from WLB's White Tanks ADMS (WLB, 1992) from which the effective FIS maps were generated.

Appendix D6 Hydrologic Calculations

This appendix contains the HEC-1 output file for the drainage area contributing to the Bullard Wash Channel. The HEC-1 input file is developed by modifying the White Tanks ADMS HEC-1 file and the Dysart Drain HEC-1 file to account for the recently improved Dysart Drain Channel which carries all the 100-year flows to Agua Fria River. Please refer to Figures 11 and 12 for the Dysart Drain information. The peak discharge generated by the HEC-1 model at the Bullard Wash watershed outlet is 3198 cfs. The design discharge for Bullard Wash Channel is 3200 cfs. Refer to the diskette holder for electronic copies of the input and output HEC-1 files. This HEC-1 output file also contains the hydrologic information documenting the East Tributary Channel peak flowrate.

Appendix D7 HEC-1 Results ("bullab3.out")

```
1*************************************
*************************************
*                                   *
*                                   *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *
*                                   *
*          SEPTEMBER 1990           *
*                                   *
*           VERSION 4.0             *
*                                   *
*                                   *
*                                   *
*  RUN DATE  10/15/1998  TIME  09:29:23 *
*                                   *
*                                   *
*                                   *
*************************************
*************************************
```

```
*                                   *
*                                   *
*   U.S. ARMY CORPS OF ENGINEERS    *
*   HYDROLOGIC ENGINEERING CENTER   *
*         609 SECOND STREET         *
*      DAVIS, CALIFORNIA 95616      *
*          (916) 756-1104           *
*                                   *
```

```
X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X               X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X               X
X     X  X        X     X         X
X     X  XXXXXXX   XXXXX         XXX
```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

```
1                                   HEC-1 INPUT                                                    PAGE  1

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

  1           ID        Filename:bullab3.dat
  2           ID        Purpose: Hydrology for Bullard Wash Channel, FCDMC, September, 1998
  3           ID
  4           ID        This HEC-1 model is for Bullard Wash Channel design.  It is developed
  5           ID        by modifying White Tanks/Agua Fria ADMS HEC-1 model.  The modification
  6           ID        is due to the recently completed Dysart Drain Improvement project(FCDMC)
  7           ID        which allows Dysart Drain to completely intercept flows from north
  8           ID        of Dysart Drain.
  9           ID
              *DIAGRAM
 10           IT       5                    300
 11           IO       5
 12           IN      15
 13           JD    4.03    .001
 14           PC    .000    .002    .005    .008    .011    .014    .017    .020    .023    .026
 15           PC    .029    .032    .035    .038    .041    .044    .048    .052    .056    .060
 16           PC    .064    .068    .072    .076    .080    .085    .090    .095    .100    .105
 17           PC    .110    .115    .120    .126    .133    .140    .147    .155    .163    .172
 18           PC    .181    .191    .203    .218    .236    .257    .283    .387    .663    .707
 19           PC    .735    .758    .776    .791    .804    .815    .825    .834    .842    .849
 20           PC    .856    .863    .869    .875    .881    .887    .893    .898    .903    .908
 21           PC    .913    .918    .922    .926    .930    .934    .938    .942    .946    .950
 22           PC    .953    .956    .959    .962    .965    .968    .971    .974    .977    .980
 23           PC    .983    .986    .989    .992    .995    .998    1.00   1.000   1.000   1.000
 24           JD    3.99      10
 25           JD    3.83      50
 26           JD    3.76     100
 27           JD    3.70     200

 28           KK       1
 29           KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 1.
 30           BA    1.94
 31           LG     .20     .34    3.21    1.14    9.90
 32           UI    182.    326.    742.    974.   1186.   1502.   2185.   1957.   1537.   1243.
 33           UI    989.    751.    417.    308.    230.    182.     64.     56.     56.     56.
 34           UI     56.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 35           UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 36           KK    RCP1
 37           KM        ROUTE FLOW FROM CP1 TO CP2.
 38           RL                     1    1428
 39           RS       5            -1       0
```

```
 40          RC     .06     .04     .06   17800   .0469
 41          RX    1000    1125    1300    1390    1405    1490    1590    1750
 42          RY    1440    1439    1437    1428    1428    1439    1442    1444

 43          KK       2
 44          KM         RUNOFF HYDROGRAPH FROM SUB-BASIN 2.
 45          BA    1.82
 46          LG     .18     .33    3.91     .70   11.70
 47          UI    115.    115.    259.    442.    556.    642.    727.    849.   1013.   1346.
 48          UI   1419.   1145.    985.    864.    735.    634.    545.    405.    268.    202.
 49          UI    189.    144.    115.    103.     35.     35.     35.     35.     35.     35.
 50          UI     35.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 51          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
1                                          HEC-1 INPUT                                          PAGE  2

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 52          KK     CP2
 53          KM         ADD HYDROGRAPHS AT CP2.
 54          HC       2

 55          KK    RCP2
 56          KM         ROUTE COMBINED HYDROGRAPHS AT CP2 TO CP3.
 57          RL                     1.5    1298
 58          RS       2              -1       0
 59          RC     .06    .035     .06    4500   .0111
 60          RX    1000    1100    1350    1705    1735    1780    1850    2000
 61          RY    1304    1302    1302    1298    1298    1303    1302    1305

 62          KK      3A
 63          KM         RUNOFF HYDROGRAPH FROM SUB-BASIN 3A
 64          BA     .29
 65          LG     .15     .33    3.99     .59     .00
 66          UI     34.     89.    165.    212.    286.    410.    314.    242.    182.    124.
 67          UI     62.     48.     33.     10.     10.     10.     10.      0.      0.      0.
 68          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 69          KK   RCP3A
 70          KM         ROUTE FLOW FROM CP3A TO CP3
 71          RL                     1.5    1284
 72          RS       2              -1       0
 73          RC     .03     .03     .05    5300   .0060
 74          RX    1000    1023    1032    1046    1058    1067    1250    1540
 75          RY    1289    1288    1286    1284    1284    1286    1288    1291

 76          KK       3
 77          KM         RUNOFF HYDROGRAPH FROM SUB-BASIN 3.
 78          BA     .81
 79          LG     .15     .33    4.08     .54     .00
 80          UI     91.    228.    430.    554.    725.   1088.    908.    700.    535.    396.
 81          UI    205.    152.     95.     57.     28.     28.     28.      0.      0.      0.
 82          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 83          KK   I1CP3
 84          KM         ADD HYDROGRAPHS AT CP3.
 85          HC       2

 86          KK     CP3
 87          KM         ADD HYDROGRAPHS AT CP3.
 88          HC       2

 89          KK     CP3
 90          KM         DIVERT FLOWS THAT WILL OVERTOP THE BEARDSLEY CANAL AT OLIVE AVENUE.  THE
 91          KM         HEC-2 DIVERSION RATING CURVE MODELED BY THE FLOOD CONTROL DISTRICT IS
 92          KM         INCORPORATED HERE.
 93          DT    DCP3
 94          DI       0    1000    2000    3000    5000    6000    6800    8000
 95          DQ       0       0     435     660    1570    2070    2520    3260
1                                          HEC-1 INPUT                                          PAGE  3

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


 96          KK    RCP3
 97          KM         ROUTE THE REMAINING HYDROGRAPH AT CP3 TO CP10.
 98          RL                       2    1245
 99          RS       2              -1       0
100          RC     .05     .03     .05    5280   .0083
101          RX    1010    1015    1020    1050    1100    1275    1580    1750
102          RY    1251    1249    1249    1245    1245    1250    1250    1254

103          KK       4
104          KM         RUNOFF HYDROGRAPH FORM SUB-BASIN 4.
105          BA     .30
106          LG     .20     .30    3.87     .77    1.00
107          UI     48.    192.    287.    444.    512.    346.    236.    115.     67.     35.
108          UI     14.     14.      0.      0.      0.      0.      0.      0.      0.      0.
109          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

110          KK       5
111          KM         RUNOFF HYDROGRAPH FROM SUB-BASIN 5.
112          BA     .72
```

```
113          LG     .20     .34    3.27    1.11    9.20
114          UI    110.    437.    658.    992.   1242.    849.    591.    315.    174.    101.
115          UI     34.     34.     34.      0.      0.      0.      0.      0.      0.      0.
116          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

117          KK     CP5
118          KM        ADD HYDROGRAPHS AT CP5.
119          HC       2

120          KK    RCP5
121          KM        ROUTE COMBINED HYDROGRAPHS AT CP5 TO CP7.
122          RL                     .5    2800
123          RS       1             -1       0
124          RC     .08     .05     .08    4800   .0833
125          RX     955     970     985    1000    1020    1035    1050    1065
126          RY    2815    2810    2805    2800    2800    2805    2810    2815

127          KK       6
128          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 6.
129          BA     .45
130          LG     .20     .34    3.21    1.14   10.00
131          UI    204.    622.   1139.    837.    427.    155.     54.     33.      0.      0.
132          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

133          KK   I1CP7
134          KM        ADD HYDROGRAPHS AT CP7.
135          HC       2

136          KK       7
137          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 7.
138          BA     .31
139          LG     .20     .34    3.21    1.14   10.00
140          UI    126.    387.    716.    606.    343.    129.     52.     22.      0.      0.
141          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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1                                   HEC-1 INPUT

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

142          KK     CP7
143          KM        ADD HYDROGRAPHS AT CP7.
144          HC       2

145          KK    RCP7
146          KM        ROUTE COMBINED HYDROGRAPHS AT CP7 TO CP9.
147          RL                     .5    1838
148          RS       3             -1       0
149          RC     .08     .05     .08   10200  .07745
150          RX    1000    1045    1120    1195    1230    1300    1350    1450
151          RY    1910    1880    1850    1838    1838    1850    1880    1910

152          KK       9
153          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 9.
154          BA    1.40
155          LG     .20     .34    3.24    1.12    9.70
156          UI    155.    381.    727.    935.   1216.   1832.   1591.   1224.    938.    705.
157          UI    386.    261.    177.    115.     47.     47.     47.     47.      0.      0.
158          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

159          KK   I1CP9
160          KM        ADD HYDROGRAPHS AT CP9.
161          HC       2

162          KK       8
163          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 8.
164          BA     .81
165          LG     .20     .34    3.21    1.14   10.00
166          UI    102.    313.    535.    703.   1054.   1140.    822.    608.    421.    208.
167          UI    147.     96.     31.     31.     31.      0.      0.      0.      0.      0.
168          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

169          KK     CP9
170          KM        ADD HYDROGRAPHS AT CP9.
171          HC       2

172          KK    RCP9
173          KM        ROUTE COMBINED HYDROGRAPHS AT CP9 TO CP10.
174          RL                    1.5    1308
175          RS       8             -1       0
176          RC     .06    .035     .06   19200   .0232
177          RX    1000    1085    1310    1395    1415    1450    1630    1665
178          RY    1317    1314    1311    1308    1308    1314    1314    1317

179          KK      10
180          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 10.
181          BA    2.02
182          LG     .16     .33    3.90     .66    3.30
183          UI    119.    119.    218.    427.    546.    632.    708.    812.    929.   1148.
184          UI   1499.   1393.   1156.   1006.    894.    765.    669.    577.    475.    325.
185          UI    210.    201.    193.    119.    119.     86.     36.     36.     36.     36.
186          UI     36.     36.     36.     36.      0.      0.      0.      0.      0.      0.
187          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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1                                   HEC-1 INPUT
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```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 188          KK  I1CP10
 189          KM        ADD HYDROGRAPHS AT CP10
 190          HC       2

 191          KK    CP10
 192          KM        ADD HYDROGRAPHS AT CP10
 193          HC       2   10.87

 194          KK    CP10
 195          KM        FLOW TO WHITE TANKS #3 UNDER NORTHERN AVE.  THE HEC-2 DIVERSION RATING
 196          KM        CURVE MODELED BY THE FLOOD CONTROL DISTRICT IS INCORPORATED HERE.
 197          DT   DCP10
 198          DI       0    1000    3000    4497    5000    6000    8000   10000
 199          DQ       0       0     770    1277    1450    1710    2470    3240

 200          KK   RCP10
 201          KM        ROUTE REMAINING HYDROGRAPH AT CP10 TO CP12.
 202          RL                     2.0    1211
 203          RS       1              -1       0
 204          RC     .03     .03     .05    3500   .0057
 205          RX     995    1000    1020    1055    1085    1165    1250    1330
 206          RY    1221    1220    1220    1211    1211    1218    1220    1222

 207          KK      12
 208          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 12.
 209          BA    1.38
 210          LG     .16     .32    4.18     .50    3.00
 211          UI    111.    129.    393.    535.    636.    758.    930.   1311.   1277.   1008.
 212          UI    850.    697.    574.    445.    264.    191.    169.    111.     92.     34.
 213          UI     34.     34.     34.     34.     34.      0.      0.      0.      0.      0.
 214          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 215          KK    CP12
 216          KM        ADD HYDROGRAPHS AT CP12.
 217          HC       2

 218          KK   RCP12
 219          KM        ROUTE COMBINED HYDROGRAPHS AT CP12 TO CPWT3
 220          RL                     2.0    1196
 221          RS       2              -1       0
 222          RC     .03     .03     .04    4800   .0031
 223          RX     995    1000    1020    1080    1200    1530    1665    1760
 224          RY    1211    1211    1210    1196    1196    1200    1204    1204

 225          KK      11
 226          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 11.
 227          BA    1.56
 228          LG     .18     .32    3.98     .67    6.80
 229          UI    143.    245.    571.    755.    913.   1142.   1648.   1623.   1254.   1026.
 230          UI    821.    643.    394.    248.    210.    143.     86.     44.     44.     44.
 231          UI     44.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 232          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 233          KK   RCP11
 234          KM        ROUTE HYROGRAPH FROM CP11 TO CP13.
 235          RL                     1.5    1196
 236          RS       3              -1       0
 237          RC     .06    .035     .06   10200   .0098
 238          RX    1000    1070    1300    1480    1510    1525    1555    1600
 239          RY    1233    1232    1230    1222    1222    1230    1232    1233

 240          KK      13
 241          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 13.
 242          BA    1.30
 243          LG     .15     .33    4.14     .51     .00
 244          UI    120.    210.    485.    639.    774.    973.   1416.   1333.   1039.    847.
 245          UI    674.    527.    303.    206.    167.    120.     60.     37.     37.     37.
 246          UI     37.      0.      0.      0.      0.      0.      0.      0.      0.      0.
 247          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

 248          KK    CP13
 249          KM        ADD HYDROGRAPHS AT CP13.
 250          HC       2

 251          KK   RCP13
 252          KM        ROUTE COMBINED HYDROGRAPHS AT CP13 TO CP17
 253          RL                     1.5    1222
 254          RS       2              -1       0
 255          RC     .03     .03     .04    2400   .0042
 256          RX    1000    1025    1040    1065    1085    1110    1175    1200
 257          RY    1206    1198    1196    1194    1194    1198    1198    1201

 258          KK      14
 259          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 14.
 260          BA    1.47
```

```
LG     .20     .34    3.24    1.12    9.00
UI    166.    421.    790.   1019.   1341.   1998.   1636.   1264.    961.    699.
UI    362.    274.    166.     93.     51.     51.     51.      0.      0.      0.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

KK   RCP14
KM        ROUTE FLOW FROM CP14 TO CP15.
RL                     2.0    1194
RS      4               -1       0
RC    .06    .035     .06    8800  .02556
RX   1000    1030    1075    1200    1220    1280    1415    1480
RY   1296    1295    1294    1288    1288    1294    1296    1300

KK     15
KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 15.
BA   1.26
LG    .18     .33    3.58     .86    6.40
UI    130.    281.    577.    747.    938.   1321.   1552.   1156.    920.    713.
UI    519.    277.    217.    138.     93.     40.     40.     40.     40.      0.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK  I1CP15
KM        ADD HYDROGRAPHS AT CP15
HC       2

KK     16
KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 16.
BA   1.13
LG    .17     .32    4.08     .41   11.10
UI    115.    240.    503.    652.    814.   1126.   1393.   1049.    839.    655.
UI    497.    268.    194.    137.    101.     35.     35.     35.     35.      0.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

KK   SR16
KM        STORAGE ROUTE THROUGH THE CATERPILLAR DETENTION BASIN IN SUBWATERSHED 16
RS      1    STOR       0       0
SV      0       1      31     114     270     502     807    1319    1776    1908
SQ      0                                                                      4050
SE   1198    1200    1210    1220    1230    1240    1250    1260    1266    1267

KK   CP15
KM        ADD HYDROGRAPHS AT CP15.
HC       2

KK   RCP15
KM        ROUTE COMBINED HYDROGRAPHS AT CP15 TO CP17.
RL                     2.0    1226
RS      3               -1       0
RC    .06    .035     .06    6800   .0079
RX   1000    1310    1380    1540    1640    1670    1700    1910
RY   1234    1232    1228    1226    1226    1228    1232    1235

KK     17
KM        RUNOFFF HYDROGRAPH FROM SUB-BASIN 17.
BA   1.07
LG    .19     .33    4.04     .54     .10
UI    117.    254.    572.    810.   1052.   1196.    753.    635.    540.    450.
UI    353.    287.    254.    194.    149.    129.    103.     90.     64.     57.
UI     57.     26.     22.     22.     22.     22.     22.     22.      0.      0.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

KK  I1CP17
KM        ADD HYDROGRAPHS AT CP17.
HC       2

KK   CP17
KM        ADD HYDROGRAPHS AT CP17.
HC       2
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK   RCP17
KM        ROUTE FLOW FROM CP17 TO CPWT3
RL                     2.0    1182
RS      2               -1       0
RC    .06     .04     .04    1600   .0022
RX   1000    1220    1280    1470    1530    1660    1680    1685
RY   1196    1194    1190    1182    1182    1210    1211    1212

KK    WT3
KM        RUNOFF HYDROGRAPH FROM SUB-BASIN WT3
BA    .44
LG    .35     .32    3.91     .33     .00
UI     36.     44.    128.    175.    207.    249.    308.    436.    399.    318.
UI    267.    220.    179.    133.     78.     61.     49.     36.     23.     11.
```

```
334          UI     11.     11.     11.     11.      0.      0.      0.      0.      0.      0.
335          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

336          KK  I1CWT3
337          KM        ADD HYDROGRAPHS AT CPWT3
338          HC       2

339          KK   CPWT3
340          KM        ADD HYDROGRAPHS AT CPWT3
341          HC       2

342          KK   SRWT3
343          KM        STORAGE ROUTE THROUGH WHITE TANKS STRUCTURE #3.
344          RS       1    STOR       0       0
345          SV       0       1      14      42      91     203     466     958    1704    2716
346          SV    3012    3325    3657    4006
347          SQ       0       0       0       0       0       0       0       0       0       0
348          SQ       0    3550    9000   17600
349          SE    1174    1176    1180    1184    1188    1192    1196    1200    1204    1208
350          SE    1209    1210    1211    1212
351          SS    1209       0       0       0
352          ST  1212.1    7667     2.2     1.5
353          SW    1000    1995    3000    4000    4988    6008    7007
354          SE  1212.1  1212.4 1212.63 1213.32 1214.72 1214.94  1214.8

355          KK     101
356          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 101.
357          BA     .16
358          LG     .35     .32    3.61     .26     .00
359          UI     22.     76.    121.    165.    258.    205.    150.    106.     54.     34.
360          UI     22.      7.      7.      7.      0.      0.      0.      0.      0.      0.
361          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

362          KK    102A
363          KM        RUNOFF HYDROGRAPH FROM SUB-SUBIN 102.
364          BA     .51
365          LG     .40     .20    6.05     .21     .00
366          UI     40.     43.    142.    190.    228.    270.    327.    453.    484.    378.
367          UI    319.    263.    218.    176.    114.     71.     66.     44.     40.     15.
368          UI     12.     12.     12.     12.     12.      0.      0.      0.      0.      0.
```



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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

369          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

370          KK   CP101
371          KM        ADD HYDROGRAPHS AT CP101
372          HC       2     .67

373          KK    R101
374          KM        ROUTE FLOW FROM CP101 TO CP102.
375          RS       2              -1       0
376          RC    .025    .022    .022    2750   .0062
377          RX    1000    1001    1030    1085    1120    1138    1139    1140
378          RY    1319    1319    1318    1316    1316    1317    1317    1317

379          KK     102
380          KM        RUNOFF FROM SUB-BASIN 102
381          BA     .10
382          LG     .50     .00    6.05     .29     .00
383          UI     10.     21.     44.     57.     70.     97.    122.     94.     75.     59.
384          UI     45.     26.     17.     13.     10.      3.      3.      3.      3.      3.
385          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
386          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

387          KK   CP102
388          KM        ADD HYDROGRAPHS AT CP102.
389          HC       2     .77

390          KK    R102
391          KM        ROUTE FLOW FROM CP102 TO CP108
392          RS      36              -1       0
393          RC    .075    .075    .075     702   .0054
394          RX    1000    1001    1120    1700    2030    2630    3070    3270
395          RY    1289    1289    1288    1286    1286    1288    1290    1292

396          KK     108
397          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 108.
398          BA     .79
399          LG     .44     .12    5.53     .25     .00
400          UI     31.     31.     31.     32.    101.    115.    136.    151.    167.    178.
401          UI    194.    213.    233.    257.    304.    366.    406.    353.    310.    281.
402          UI    259.    240.    217.    197.    181.    163.    148.    132.    108.     88.
403          UI     56.     54.     52.     51.     45.     31.     31.     31.     24.      9.
404          UI      9.      9.      9.      9.      9.      9.      9.      9.      9.      9.
405          UI      9.      0.      0.      0.      0.      0.      0.      0.      0.      0.
406          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

407          KK   1I108
408          KM        ADD HYDROGRAPHS AT CP108.
409          HC       2    1.56
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```
 410          KK     103
 411          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 103.
 412          BA     .37
 413          LG     .46      .09     4.33      .29      .00
 414          UI     19.      19.      20.      64.      79.      93.     105.     116.     131.     148.
 415          UI    175.     222.     248.     206.     178.     159.     143.     125.     111.      97.
1                                          HEC-1 INPUT                                                    PAGE 10

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 416          UI     84.      64.      45.      34.      32.      32.      19.      19.      19.       6.
 417          UI      6.       6.       6.       6.       6.       6.       6.       6.       0.       0.
 418          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

 419          KK    R103
 420          KM        ROUTE FLOW FROM CP103 TO CP108.
 421          RS       4               -1        0
 422          RC     .08     .022     .035     5380    .0041
 423          RX    1000     1050     1080     1095     1130     1150     1300     1830
 424          RY    1285     1284     1282     1280     1280     1282     1284     1286

 425          KK   CP108
 426          KM        ADD HYDROGRAPHS AT CP108.
 427          HC       2     1.93

 428          KK    R108
 429          KM        ROUTE FLOW FROM CP108 TO CP115.
 430          RS       7               -1        0
 431          RC    .035     .035     .075     5382    .0037
 432          RX    1000     1001     1002     1030     1100     1370     1900     2290
 433          RY    1259     1259     1259     1258     1258     1260     1262     1264

 434          KK     106
 435          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 106.
 436          BA     .77
 437          LG     .35      .29     6.63      .16      .00
 438          UI     68.     109.     267.     353.     425.     523.     727.     830.     634.     523.
 439          UI    422.     338.     237.     132.     114.      77.      65.      21.      21.      21.
 440          UI     21.      21.       0.       0.       0.       0.       0.       0.       0.       0.
 441          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

 442          KK    R106
 443          KM        ROUTE FLOW FROM CP106 TO CP107
 444          RS       3               -1        0
 445          RC    .075      .03      .03     5382     .039
 446          RX    1000     1430     1860     1890     1940     1960     1969     1970
 447          RY    1292     1291     1290   1289.5   1289.5     1290   1290.5   1290.5

 448          KK     107
 449          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 107.
 450          BA     .60
 451          LG     .46      .08     5.65      .29      .00
 452          UI     26.      26.      26.      53.      91.     109.     125.     141.     152.     167.
 453          UI    186.     203.     238.     291.     340.     308.     266.     238.     216.     199.
 454          UI    177.     160.     143.     129.     114.      90.      71.      46.      46.      43.
 455          UI     43.      27.      26.      26.      19.       8.       8.       8.       8.       8.
 456          UI      8.       8.       8.       8.       8.       8.       0.       0.       0.       0.
 457          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

 458          KK   CP107
 459          KM        ADD HYDROGRAPHS AT CP107.
 460          HC       2     1.37
1                                          HEC-1 INPUT                                                    PAGE 11

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 461          KK    R107
 462          KM        ROUTE FLOW FROM CP107 TO CP115
 463          RS       6               -1        0
 464          RC    .035     .035     .075     6240    .0048
 465          RX    1000     1001     1002     1030     1100     1370     1900     2290
 466          RY    1259     1259     1259     1258     1258     1260     1262     1264

 467          KK     115
 468          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 115.
 469          BA     .49
 470          LG     .50      .00     7.04      .24      .00
 471          UI     22.      22.      22.      45.      76.      91.     104.     117.     126.     138.
 472          UI    155.     170.     200.     245.     284.     247.     215.     192.     176.     161.
 473          UI    142.     129.     115.     103.      90.      69.      52.      38.      37.      35.
 474          UI     31.      22.      22.      22.      10.       7.       7.       7.       7.       7.
 475          UI      7.       7.       7.       7.       7.       0.       0.       0.       0.       0.
 476          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

 477          KK   1I115
 478          KM        ADD HYDROGRAPHS AT CP115.
 479          HC       2     1.86

 480          KK   2I115
 481          KM        ADD HYDROGRAPHS AT CP115.
 482          HC       2     3.79
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483          KK     111
484          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 111.
485          BA     .50
486          LG     .40      .21     5.55      .22      .00
487          UI     32.      32.      78.     129.     160.     184.     211.     246.     304.     406.
488          UI    374.     307.     266.     230.     196.     167.     139.      99.      58.      55.
489          UI     50.      32.      32.      15.      10.      10.      10.      10.      10.      10.
490          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
491          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

492          KK    D111
493          KM        DIVERT TO CP119 FROM CP111
494          DT   DI119
495          DI       0       32      109      228      389      599      858     1170     1539     1967
496          DQ       0       11       39       83      145      228      333      462      617      799

497          KK    R111
498          KM        ROUTE REMAINDER FROM CP111 TO CP112
499          RS       9                -1        0
500          RC    .075     .035     .035     5280    .0040
501          RX    1000     1570     2040     2370     2440     2468     2469     2470
502          RY    1312     1310     1308     1306     1306     1307     1307     1307
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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

503          KK     104
504          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 104
505          BA     .15
506          LG     .35      .31     4.93      .23      .00
507          UI     26.     101.     151.     242.     249.     169.     112.      50.      31.      14.
508          UI      7.       7.       0.       0.       0.       0.       0.       0.       0.       0.
509          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

510          KK    R104
511          KM        ROUTE FLOW FROM CP104 TO CP112
512          RS      53                -1        0
513          RC    .075     .075     .075     6552    .0056
514          RX    1000     1001     1230     1270     1750     2000     2380     2650
515          RY    1321     1321     1320     1318     1318     1319     1318     1320

516          KK     112
517          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 112
518          BA     .97
519          LG     .50      .00     3.65      .50      .00
520          UI     35.      35.      35.      35.      92.     123.     142.     165.     179.     193.
521          UI    207.     224.     245.     266.     290.     340.     400.     464.     424.     371.
522          UI    335.     308.     286.     267.     243.     220.     206.     185.     170.     155.
523          UI    131.     101.      77.      62.      61.      58.      58.      45.      35.      35.
524          UI     35.      28.      11.      11.      11.      11.      11.      11.      11.      11.
525          UI     11.      11.      11.      11.      11.       0.       0.       0.       0.       0.
526          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

527          KK   1I112
528          KM        ADD HYDROGRAPHS AT CP112.
529          HC       2     1.12

530          KK   2I112
531          KM        ADD HYDROGRAPHS AT CP112.
532          HC       2     1.62

533          KK     105
534          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 105
535          BA     .21
536          LG     .35      .27     7.68      .10      .00
537          UI     32.     129.     195.     295.     362.     246.     171.      88.      50.      28.
538          UI     10.      10.      10.       0.       0.       0.       0.       0.       0.       0.
539          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

540          KK    R105
541          KM        ROUTE FLOW FROM CP105 TO CP112
542          RS       3                -1        0
543          RC    .022     .022      .03     5220    .0044
544          RX    1000     1001     1010     1020     1040     1050     1099     1100
545          RY    1303     1303     1303     1302     1302     1304     1305     1305
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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

546          KK   CP112
547          KM        ADD HYDROGRAPHS AT CP112.
548          HC       2     1.83

549          KK    D112
550          KM        DIVERT TO CP120 FROM CP112
551          DT   DI120
552          DI       0       48      165      355      625      981     1434     1990
553          DQ       0       16       55      118      208      327      478      663

554          KK    D112
555          KM        DIVERT TO CP121A FROM CP112
```

```
556          DT  1D121A
557          DI       0      32     110     237     417     654     956    1327
558          DQ       0      16      55     118     208     327     478     663

559          KK    R112
560          KM        ROUTE REMAINDER FROM CP112 TO CP113A
561          RS       6                -1       0
562          RC    .075    .035    .035    2640   .0023
563          RX    1000    1490    1830    2600    2770    2788    2789    2790
564          RY    1290    1288    1286    1284    1284    1285    1285    1285

565          KK    113A
566          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 113A
567          BA     .50
568          LG     .50     .00    7.93     .15     .00
569          UI     22.     22.     22.     42.     75.     89.    103.    115.    125.    137.
570          UI    152.    167.    192.    238.    276.    260.    224.    199.    181.    167.
571          UI    149.    134.    121.    108.     98.     79.     62.     40.     38.     36.
572          UI     35.     26.     22.     22.     20.      7.      7.      7.      7.      7.
573          UI      7.      7.      7.      7.      7.      7.      0.      0.      0.      0.
574          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

575          KK  CP113A
576          KM        ADD HYDROGRAPHS AT CP113A
577          HC       2    2.33

578          KK   D113A
579          KM        DIVERT TO CP121A FROM CP113A
580          DT  2D121A
581          DI       0      26      67     134     232     278     399     561     799    1106
582          DQ       0       0       0       0       0       4      22      58     120     211

583          KK   R113A
584          KM        ROUTE REMAINDER FROM CP113A TO CP113
585          RS      25                -1       0
586          RC    .075    .035    .035    5280   .0032
587          RX    1000    1080    2620    2725    2735    2798    2799    2800
588          RY    1278    1277    1277    1276    1276    1277    1277    1277
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LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

589          KK     113
590          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 113
591          BA     .50
592          LG     .50     .00    8.54     .11     .00
593          UI     22.     22.     22.     49.     79.     95.    108.    122.    132.    145.
594          UI    162.    178.    213.    261.    291.    248.    216.    195.    178.    161.
595          UI    143.    131.    114.    105.     88.     65.     46.     39.     37.     37.
596          UI     27.     22.     22.     20.      7.      7.      7.      7.      7.      7.
597          UI      7.      7.      7.      7.      7.      0.      0.      0.      0.      0.
598          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

599          KK   CP113
600          KM        ADD HYDROGRAPHS AT CP113.
601          HC       2    2.83

602          KK    D113
603          KM        DIVERT TO CP122 FROM CP113
604          DT   1D122
605          DI       0      79     257     523     872    1307    1829
606          DQ       0      63     205     416     692    1033    1422

607          KK    R113
608          KM        ROUTE REMAINDER FROM CP113 TO CP114
609          RS       6                -1       0
610          RC    .075     .04     .04    2100   .0038
611          RX    1000    1020    1100    1850    2030    2048    2049    2050
612          RY    1266    1264    1262    1260    1260    1261    1261    1261

613          KK     114
614          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 114
615          BA     .38
616          LG     .50     .00    8.35     .13     .00
617          UI     17.     17.     17.     41.     62.     75.     86.     95.    104.    115.
618          UI    129.    144.    177.    215.    216.    183.    161.    146.    133.    118.
619          UI    106.     95.     85.     74.     58.     44.     31.     30.     28.     25.
620          UI     17.     17.     17.      6.      5.      5.      5.      5.      5.      5.
621          UI      5.      5.      5.      5.      0.      0.      0.      0.      0.      0.
622          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

623          KK   CP114
624          KM        ADD HYDROGRAPHS AT CP114.
625          HC       2    3.21

626          KK    D114
627          KM        DIVERT TO CP122 FROM CP114
628          DT   2D122
629          DI       0      17      54      80     333     952    2066
630          DQ       0       0       0       0      70     438    1217
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 631          KK    R114
 632          KM        ROUTE REMAINDER FROM CP114 TO CP115
 633          RS       2              -1       0
 634          RC     .06     .022     .35    2652    .0034
 635          RX    1000     1380    1790    1800     1840    1850    1899    1900
 636          RY    1258     1256    1254    1250     1250    1252    1253    1253

 637          KK   CP115
 638          KM        ADD HYDROGRAPHS AT CP115.
 639          HC       2     7.0

 640          KK    R115
 641          KM        ROUTE FLOWS FROM CP115 TO CP122
 642          RS       6              -1       0
 643          RC    .035     .035    .075    5280    .0038
 644          RX    1000     1001    1002    1015     1035    1360    1920    2460
 645          RY    1239     1239    1239    1238     1238    1240    1241    1242

 646          KK    D113
 647          KM        RETURN DIVERT AT CP113
 648          DR   1D122

 649          KK    R113
 650          KM        ROUTE FLOW FROM CP113 TO CP122
 651          RS      36              -1       0
 652          RC     .08      .08     .08    7488    .0049
 653          RX    1000     1001    1610    1820     1990    2010    3059    3060
 654          RY    1248     1248    1246    1245     1245    1246    1248    1248

 655          KK    D114
 656          KM        RETURN DIVERT AT CP114
 657          DR   2D122

 658          KK    R114
 659          KM        ROUTE FLOW FROM CP114 TO CP122
 660          RS      45              -1       0
 661          RC    .075     .075    .075    6240    .0046
 662          RX    1000     1001    1610    1820     1990    2010    3059    3060
 663          RY    1248     1248    1246    1245     1245    1246    1248    1248

 664          KK     122
 665          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 122
 666          BA     .89
 667          LG     .50      .00    5.83     .32      .00
 668          UI     32.      32.     32.     32.      87.    114.    132.    153.    166.    179.
 669          UI    193.     207.    229.    247.     272.    319.    378.    428.    385.    338.
 670          UI    306.     281.    262.    243.     220.    201.    188.    167.    155.    138.
 671          UI    114.      93.     63.     57.      56.     53.     53.     36.     32.     32.
 672          UI     32.      20.     10.     10.      10.     10.     10.     10.     10.     10.
 673          UI     10.      10.     10.     10.      10.      0.      0.      0.      0.      0.
 674          UI      0.       0.      0.      0.       0.      0.      0.      0.      0.      0.
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 675          KK   1I122
 676          KM        ADD HYDROGRAPHS AT CP122
 677          HC       3     4.1

 678          KK   CP122
 679          KM        ADD HYDROGRAPHS AT CP122
 680          HC       2    7.89

 681          KK    D122
 682          KM        DIVERT TO CP134 FROM CP122
 683          DT   DI134
 684          DI       0       6      32      56     117     259     471     757    1120    1562
 685          DI    2087
 686          DQ       0       0       0       0     115     249     446     706    1030    1418
 687          DQ    1873

 688          KK    R122
 689          KM        ROUTE REMAINDER FROM CP122 TO CP133
 690          RS      15              -1       0
 691          RC     .05      .05     .075    5280     .004
 692          RX    1000     1001    1002    1015     1235    1600    2030    2220
 693          RY    1219     1219    1219    1218     1218    1220    1222    1224

 694          KK    D111
 695          KM        RETURN DIVERT AT CP111
 696          DR   DI119

 697          KK    R111
 698          KM        ROUTE FLOWS FROM CP111 TO CP119
 699          RS      10              -1       0
 700          RC    .035     .035    .075    5250    .0034
 701          RX    1000     1001    1002    1025     1100    1320    1540    1730
 702          RY    1301     1301    1301    1300     1300    1302    1304    1306
```

```
703          KK     119
704          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 119
705          BA     .86
706          LG     .50      .00     5.56      .31      .00
707          UI     36.      36.      36.      58.     120.     142.     168.     185.     202.     218.
708          UI    241.     267.     292.     350.     424.     469.     404.     355.     319.     293.
709          UI    270.     241.     219.     197.     178.     161.     131.     103.      68.      63.
710          UI     60.      59.      47.      36.      36.      36.      16.      11.      11.      11.
711          UI     11.      11.      11.      11.      11.      11.      11.      11.       0.       0.
712          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

713          KK   CP119
714          KM        ADD HYDROGRAPHS AT CP119
715          HC       2    1.36
1                                          HEC-1 INPUT                                                    PAGE 17

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


716          KK    D119
717          KM        DIVERT TO CP128 FROM CP119
718          DT   DI128
719          DI       0       42      139      286      485      739     1052     1425
720          DQ       0       25       81      167      283      429      607      819

721          KK    R119
722          KM        ROUTE REMAINDER FROM CP119 TO CP119A
723          RS       6               -1        0
724          RC    .075     .035     .035     2640    .0015
725          RX    1000     1001     1450     1800     1820     1838     1839     1840
726          RY    1292     1292     1290     1288     1288     1289     1289     1289

727          KK    119A
728          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 119A
729          BA     .47
730          LG     .50      .00     6.91      .20      .00
731          UI     19.      19.      19.      29.      64.      75.      90.      98.     107.     116.
732          UI    128.     142.     154.     181.     219.     254.     226.     197.     177.     162.
733          UI    150.     134.     121.     111.      98.      91.      77.      59.      46.      34.
734          UI     33.      32.      31.      19.      19.      19.      16.       6.       6.       6.
735          UI      6.       6.       6.       6.       6.       6.       6.       6.       6.       0.
736          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
737          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

738          KK  CP119A
739          KM        ADD HYDROGRAPHS AT CP119A
740          HC       2    1.83

741          KK   D119A
742          KM        DIVERT TO CP130 FROM CP119A
743          DT   DI130
744          DI       0       13       46      100      177      281      413      577      774     1007
745          DI    1279     1600     1978
746          DQ       0        0        0        0        0        0        0        0        0        0
747          DQ       0        9       31

748          KK   R119A
749          KM        ROUTE REMAINDER FROM CP119A TO CP120
750          RS       2               -1        0
751          RC    .035     .035     .035     2300    .0096
752          RX    1000     1001     1002     1180     1200     1213     1214     1215
753          RY    1278     1278     1278     1276     1276     1277     1277     1277

754          KK     120
755          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 120
756          BA     .54
757          LG     .50      .00     7.23      .19      .00
758          UI     21.      21.      21.      23.      69.      79.      94.     105.     115.     123.
759          UI    134.     148.     161.     179.     212.     257.     277.     239.     211.     191.
760          UI    176.     164.     147.     133.     124.     109.     101.      88.      70.      57.
761          UI     37.      37.      35.      35.      28.      21.      21.      21.      13.       6.
762          UI      6.       6.       6.       6.       6.       6.       6.       6.       6.       6.
763          UI      6.       0.       0.       0.       0.       0.       0.       0.       0.       0.
1                                          HEC-1 INPUT                                                    PAGE 18

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

764          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

765          KK   1I120
766          KM        ADD HYDROGRAPHS AT CP120
767          HC       2    2.37

768          KK    D112
769          KM        RETURN DIVERT AT CP112
770          DR   DI120

771          KK    R112
772          KM        ROUTE FLOW FROM CP112 TO CP120
773          RS       8               -1        0
774          RC    .035     .035     .075     5270    .0044
775          RX    1000     1001     1002     1020     1040     1340     1820     2030
776          RY    1281     1281     1281     1280     1280     1282     1284     1286
```

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KK   CP120
KM       ADD HYDROGRAPHS AT CP120.
HC       2    4.20

KK    R120
KM        ROUTE FLOWS FROM CP120 TO CP130
RS       5              -1        0
RC     .03     .03     .06    5280   .0032
RX    1000    1001    1002    1020    1040    1090    1520    1830
RY    1261    1261    1261    1260    1260    1262    1264    1266

KK    D119
KM        RETURN DIVERT AT CP119
DR   DI128

KK    R119
KM        ROUTE FLOW CP119 TO CP128
RS       4              -1        0
RC    .035    .035     .06    2640   .0015
RX    1000    1001    1002    1010    1045    1085    1460    1710
RY    1287    1287    1287    1286    1286    1288    1290    1292

KK     128
KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 128
BA     .41
LG     .50     .00    3.59     .47     .00
UI     22.     22.     25.     73.     90.    106.    120.    133.    151.    170.
UI    206.    264.    270.    223.    195.    175.    155.    136.    119.    105.
UI     89.     64.     41.     38.     36.     29.     22.     22.     14.      7.
UI      7.      7.      7.      7.      7.      7.      7.      7.      0.      0.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

KK   CP128
KM       ADD HYDROGRAPHS AT CP128
HC       2    1.77
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

KK    R128
KM        ROUTE FLOW FROM CP128 TO CP130
RS      38              -1        0
RC    .075    .075    .075    6240   .0062
RX    1000    1400    1770    2240    3260    3468    3469    3470
RY    1272    1270    1268    1266    1266    1267    1267    1267

KK   D119A
KM        RETURN DIVERT AT CP119A
DR   DI130

KK   R119A
KM        ROUTE FLOW FROM CP119A TO CP130
RS       5              -1        0
RC     .08     .08     .08    6318   .0062
RX    1000    1400    1770    2240    3260    3468    3469    3470
RY    1272    1270    1268    1266    1266    1267    1267    1267

KK     130
KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 130
BA    1.00
LG     .50     .00    5.01     .28     .00
UI     37.     37.     37.     37.    108.    133.    156.    177.    194.    210.
UI    225.    244.    269.    289.    327.    397.    453.    482.    418.    371.
UI    338.    312.    291.    264.    241.    221.    202.    184.    170.    142.
UI    108.     85.     66.     65.     61.     61.     46.     37.     37.     37.
UI     25.     11.     11.     11.     11.     11.     11.     11.     11.     11.
UI     11.     11.     11.     11.      0.      0.      0.      0.      0.      0.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

KK   1I130
KM        ADD HYDROGRAPHS AT CP130
HC       3    3.24

KK     129
KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 129
BA     .43
LG     .42     .05    4.24     .48    4.00
UI     28.     28.     72.    116.    143.    164.    189.    222.    287.    360.
UI    312.    259.    226.    192.    164.    139.    109.     71.     50.     47.
UI     36.     28.     23.      9.      9.      9.      9.      9.      9.      9.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

KK    R129
KM        ROUTE FLOW FROM CP129 TO CP130
RS       9              -1        0
RC    .075     .04     .04    5280    .006
RX    1000    1250    1450    2070    2080    2098    2099    2100
RY    1270    1268    1266    1264    1264    1265    1265    1265
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 851          KK   CP130
 852          KM        ADD HYDROGRAPHS AT CP130.
 853          HC       3    5.54

 854          KK    D130
 855          KM        DIVERT TO CP144 FROM CP130
 856          DT   DI144
 857          DI       0       37      124      257      440      743     1487     2233     3928     6436
 858          DQ       0        0        0        0        0      196      657     1133     2198     3747

 859          KK    R130
 860          KM        ROUTE REMAINDER FROM CP130 TO CP131A
 861          RS       8                -1
 862          RC    .075      .04      .04     2640    .0057
 863          RX    1000     1001     1640     2050     2290     2328     2329     2330
 864          RY    1234     1234     1232     1230     1230     1231     1231     1231

 865          KK    131A
 866          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 131A
 867          BA     .49
 868          LG     .50      .00     5.47      .34      .00
 869          UI     22.      22.      22.      48.      77.      93.     106.     119.     129.     142.
 870          UI    159.     175.     208.     256.     285.     243.     212.     191.     174.     158.
 871          UI    141.     128.     112.     103.      86.      64.      45.      39.      36.      36.
 872          UI     27.      22.      22.      19.       7.       7.       7.       7.       7.       7.
 873          UI      7.       7.       7.       7.       7.       0.       0.       0.       0.       0.
 874          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

 875          KK  CP131A
 876          KM        ADD HYDROGRAPHS AT CP131A
 877          HC       2    6.03

 878          KK   R131A
 879          KM        ROUTE REMAINDER FROM CP131A TO R131
 880          RS       8                -1
 881          RC    .075      .04      .04     2640    .0051
 882          RX    1000     1001     1640     2050     2290     2328     2329     2330
 883          RY    1234     1234     1232     1230     1230     1231     1231     1231

 884          KK     131
 885          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 131
 886          BA     .49
 887          LG     .50      .00     5.47      .34      .00
 888          UI     22.      22.      22.      49.      78.      94.     107.     120.     130.     143.
 889          UI    161.     177.     212.     261.     285.     241.     211.     190.     174.     157.
 890          UI    140.     127.     111.     103.      83.      63.      42.      39.      36.      36.
 891          UI     25.      22.      22.      17.       7.       7.       7.       7.       7.       7.
 892          UI      7.       7.       7.       7.       0.       0.       0.       0.       0.       0.
 893          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 894          KK   1I131
 895          KM        ADD HYDROGRAPHS AT CP131
 896          HC       2    6.52

 897          KK    D112
 898          KM        RETURN DIVERT AT CP112
 899          DR  1D121A

 900          KK    R112
 901          KM        ROUTE FLOW FROM CP112 TO CP121A
 902          RS       6                -1        0
 903          RC     .05     .022      .05     6700    .0034
 904          RX    1000     1180     1205     1225     1295     1320     1345     1670
 905          RY    1265     1264     1262     1260     1260     1262     1264     1265

 906          KK    121A
 907          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 121A
 908          BA     .50
 909          LG     .46      .09     4.03      .57      .00
 910          UI     26.      26.      30.      89.     109.     129.     146.     161.     183.     205.
 911          UI    248.     317.     331.     274.     238.     214.     190.     166.     147.     129.
 912          UI    109.      80.      52.      46.      43.      37.      26.      26.      19.       8.
 913          UI      8.       8.       8.       8.       8.       8.       8.       8.       0.       0.
 914          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

 915          KK  1I121A
 916          KM        ADD HYDROGRAPHS AT CP121A
 917          HC       2    2.33

 918          KK   D113A
 919          KM        RETURN DIVERT AT CP113A
 920          DR  2D121A

 921          KK   R113A
 922          KM        ROUTE FLOW FROM CP113A TO CP121A
 923          RS       6                -1        0
```

```
924          RC     .05     .025     .05     5280    .0047
925          RX    1000     1001    1002     1020     1170    1200    1290    1500
926          RY    1278     1278    1278     1276     1276    1278    1279    1280

927          KK  CP121A
928          KM        ADD HYDROGRAPHS AT CP121A
929          HC       2    2.83

930          KK   R121A
931          KM        ROUTE FLOW FROM CP121A TO CP121
932          RS       2              -1        0
933          RC    .035     .035    .035     2640    .0096
934          RX    1000     1001    1002     1180     1200    1213    1214    1215
935          RY    1278     1278    1278     1276     1276    1277    1277    1277
1                                            HEC-1 INPUT                                                          PAGE 22

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


936          KK     121
937          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 121
938          BA     .50
939          LG     .46     .09    4.03     .57     .00
940          UI     26.     26.     31.     90.     110.    130.    147.    163.    185.    209.
941          UI    253.    325.    328.    272.     237.    213.    189.    165.    145.    127.
942          UI    107.     77.     49.     46.      44.     35.     26.     26.     16.      8.
943          UI      8.      8.      8.      8.       8.      8.      8.      0.      0.      0.
944          UI      0.      0.      0.      0.       0.      0.      0.      0.      0.      0.

945          KK   CP121
946          KM        ADD HYDROGRAPHS AT CP121
947          HC       2    3.33

948          KK    R121
949          KM        ROUTE FLOW FROM CP121 TO CP131
950          RS       7              -1        0
951          RC    .035     .035    .075     5280    .0055
952          RX    1000     1001    1002     1050     1115    1450    1910    1570
953          RY    1239     1239    1239     1238     1238    1239    1240    1242

954          KK   CP131
955          KM        ADD HYDROGRAPHS AT CP131.
956          HC       2    8.52

957          KK    D131
958          KM        DIVERT TO CP145 FROM CP131
959          DT   DI145
960          DI       0       60     608     1900     3801    6042    9665
961          DQ       0       39     491     1546     2353    4171    6841

962          KK    R131
963          KM        ROUTE REMAINDER FROM CP131 TO CP132
964          RS       4              -1        0
965          RC    .075     .035    .035     2150    .0028
966          RX    1000     1370    1760     2150     2165    2173    2174    2175
967          RY    1224     1222    1220     1218     1218    1219    1219    1219

968          KK     132
969          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 132
970          BA     .41
971          LG     .50     .00    4.15     .57     .00
972          UI      19      19      19      49      70      86      98     108     118     132
973          UI     147     169     212     248     223     191     170     155     140     124
974          UI     112      98      89      70      55      34      34      32      30      19
975          UI      19      19       8       6       6       6       6       6       6       6
976          UI       6       6       0       0       0       0       0       0       0       0
977          UI       0       0       0       0       0       0       0       0       0       0
1                                            HEC-1 INPUT                                                          PAGE 23

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


978          KK   CP132
979          KM        ADD HYDROGRAPHS AT CP132
980          HC       2    8.93

981          KK    R132
982          KM        ROUTE FLOW FROM CP132 TO CP133
983          RS       5              -1        0
984          RC     .08      .04     .04     2640     .003
985          RX    1000     1400    1670     2050     2230    2258    2259    2260
986          RY    1218     1216    1214     1212     1212    1213    1213    1213

987          KK     133
988          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 133
989          BA     .49
990          LG     .50     .00    3.62     .46     .00
991          UI     22.     22.     22.     48.     77.     93.    106.    119.    129.    142.
992          UI    159.    175.    208.    256.    285.    243.    212.    191.    174.    158.
993          UI    141.    128.    112.    103.     86.     64.     45.     39.     36.     36.
994          UI     27.     22.     22.     19.      7.      7.      7.      7.      7.      7.
995          UI      7.      7.      7.      7.      7.      0.      0.      0.      0.      0.
996          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```

```
997          KK   1I133
998          KM        ADD HYDROGRAPHS AT CP133
999          HC       2    9.42

1000         KK   CP133
1001         KM        ADD HYDROGRAPHS AT CP133
1002         HC       2   14.48

1003         KK    D133
1004         KM        DIVERT TO CP146 FROM CP133
1005         DT   DI146
1006         DI       0      80     341    1081    2600    4587    7337
1007         DQ       0      32     136     432    1040    1835    2935

1008         KK    D133
1009         KM        DIVERT TO CP147 FROM CP133
1010         DT   1D147
1011         DI       0      48     205     649    1560    2752    4402
1012         DQ       0      16      68     216     520     917    1467

1013         KK    R133
1014         KM        ROUTE REMAINDER FROM CP133 TO CP134
1015         RS       4              -1       0
1016         RC     .06    .035    .035    2640   .0049
1017         RX    1000    1340    1600    1815    1860    1888    1889    1890
1018         RY    1206    1204    1202    1200    1200    1203    1203    1203
                                           HEC-1 INPUT                                    PAGE 24
1

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1019         KK    D122
1020         KM        RETURN DIVERT AT   CP122
1021         DR   DI134

1022         KK    R122
1023         KM        ROUTE FLOW FROM CP122 TO CP134
1024         RS       8              -1       0
1025         RC     .04     .04    .075    6700   .0051
1026         RX    1000    1001    1002    1045    1150    1570    1960    2350
1027         RY    1209    1209    1209    1208    1208    1210    1212    1214

1028         KK     134
1029         KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 134
1030         BA     .50
1031         LG     .50     .00    3.67     .46     .00
1032         UI     22.     22.     22.     49.     79.     95.    108.    122.    132.    145.
1033         UI    162.    178.    213.    261.    291.    248.    216.    195.    178.    161.
1034         UI    143.    131.    114.    105.     88.     65.     46.     39.     37.     37.
1035         UI     27.     22.     22.     20.      7.      7.      7.      7.      7.      7.
1036         UI      7.      7.      7.      7.      7.      0.      0.      0.      0.      0.
1037         UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1038         KK   1I134
1039         KM        ADD HYDROGRAPHS AT CP134
1040         HC       2    8.39

1041         KK     123
1042         KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 123
1043         BA     .44
1044         LG     .50     .00    6.21     .30     .00
1045         UI     20.     20.     20.     51.     74.     90.    103.    114.    124.    138.
1046         UI    155.    175.    222.    259.    243.    208.    184.    167.    152.    134.
1047         UI    121.    107.     97.     81.     60.     41.     36.     34.     33.     23.
1048         UI     20.     20.     13.      6.      6.      6.      6.      6.      6.      6.
1049         UI      6.      6.      6.      0.      0.      0.      0.      0.      0.      0.
1050         UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1051         KK    D123
1052         KM        DIVERT TO CP124 FROM CP123
1053         DT   DI124
1054         DI       0      94     177     293     448     683    1014    1440    1964    2593
1055         DQ       0      94     177     293     448     448     448     448     448     448

1056         KK    R123
1057         KM        ROUTE REMAINDER FROM CP123 TO CP134
1058         RS       6              -1       0
1059         RC     .04     .04    .075    5280   .0038
1060         RX    1000    1001    1002    1045    1150    1570    1960    2350
1061         RY    1209    1209    1209    1208    1208    1210    1212    1214
                                           HEC-1 INPUT                                    PAGE 25
1

LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1062         KK   2I134
1063         KM        ADD HYDROGRAPHS AT CP134
1064         HC       2    8.83

1065         KK   CP134
1066         KM        ADD HYDROGRAPHS AT CP134
1067         HC       2   15.42
```

```
1068        KK    D134
1069        KM        DIVERT TO CP147 FROM CP134
1070        DT   2D147
1071        DI       0       26      162      614     1050     2192     3494     6483    10967
1072        DQ       0        0       62      352      697     1575     2539     4742     8027

1073        KK    R134
1074        KM        ROUTE REMAINDER FROM CP134 TO CP135
1075        RS       2                -1        0
1076        RC     .06      .03      .03     2640    .0045
1077        RX    1000     1490     1950     2015     2040     2048     2049     2050
1078        RY    1194     1192     1190     1188     1188     1189     1189     1189

1079        KK    D123
1080        KM        RETURN DIVERT AT CP123
1081        DR   DI124

1082        KK    R123
1083        KM        ROUTE FLOW FROM CP123 TO CP124
1084        RS       4                -1        0
1085        RC    .075     .035     .035     2640    .0038
1086        RX    1000     1350     1690     2040     2130     2148     2149     2150
1087        RY    1216     1214     1212     1210     1210     1211     1211     1211

1088        KK     124
1089        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 124
1090        BA     .57
1091        LG     .50      .00     6.41      .29      .00
1092        UI     20.      20.      20.      20.      50.      70.      80.      94.     102.     111.
1093        UI    118.     128.     138.     152.     163.     188.     228.     254.     257.     223.
1094        UI    201.     183.     170.     159.     146.     133.     122.     112.     102.      95.
1095        UI     82.      66.      57.      36.      36.      34.      33.      33.      21.      20.
1096        UI     20.      20.      12.       6.       6.       6.       6.       6.       6.       6.
1097        UI      6.       6.       6.       6.       6.       6.       0.       0.       0.       0.
1098        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1099        KK   CP124
1100        KM        ADD HYDROGRAPHS AT CP124
1101        HC       2    1.01

1102        KK    D124
1103        KM        DIVERT TO CP136 FROM CP124
1104        DT   DI136
1105        DI       0       42       84      232      605     1435     2923
1106        DQ       0       25       51      128      292      519      798
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1107        KK    D124
1108        KM        DIVERT TO CP125 FROM CP124
1109        DT   DI125
1110        DI       0       17       33      104      313      916     2125
1111        DQ       0       17       33       82      189      341      534

1112        KK    R124
1113        KM        ROUTE REMAINDER FROM CP124 TO CP135
1114        RS      10                -1        0
1115        RC    .035     .035     .075     5280    .0042
1116        RX    1000     1001     1002     1020     1070     1360     1800     2190
1117        RY    1195     1195     1195     1194     1194     1196     1198     1200

1118        KK   1I135
1119        KM        ADD HYDROGRAPHS AT CP135
1120        HC       2   15.63

1121        KK     135
1122        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 135
1123        BA     .49
1124        LG     .50      .00     3.58      .44      .00
1125        UI     21.      21.      21.      35.      69.      82.      97.     106.     117.     126.
1126        UI    139.     154.     170.     203.     249.     267.     228.     200.     181.     167.
1127        UI    153.     136.     124.     112.     100.      89.      72.      57.      36.      36.
1128        UI     34.      34.      24.      21.      21.      20.       6.       6.       6.       6.
1129        UI      6.       6.       6.       6.       6.       6.       6.       6.       0.       0.
1130        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1131        KK   CP135
1132        KM        ADD HYDROGRAPHS AT CP135
1133        HC       2   16.48

1134        KK    D135
1135        KM        DIVERT TO CP148 FROM CP135
1136        DT   DI148
1137        DI       0       24      136      323      849     1809     2524     4155     6589     8820
1138        DQ       0        0        0       21      135      427      747     1477     2566     3013

1139        KK    R135
1140        KM        ROUTE REMAINDER FROM CP135 TO CP136
1141        RS       4                -1        0
1142        RC    .075     .035     .035     2640    .0038
```

```
1143          RX    1000    1430    1790    2250    2275    2298    2299    2300
1144          RY    1182    1180    1178    1176    1176    1177    1177    1177

1145          KK    D124
1146          KM        RETURN DIVERT AT CP124
1147          DR   DI136
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1148          KK    R124
1149          KM        ROUTE FLOW FROM CP124 TO CP136
1150          RS      50              -1       0
1151          RC     .07     .07     .07    6084   .0053
1152          RX    1000    1001    1002    1260    2160    2448    2449    2450
1153          RY    1193    1193    1193    1192    1192    1193    1193    1193

1154          KK     136
1155          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 136
1156          BA     .46
1157          LG     .50     .00    3.67     .42     .00
1158          UI     21.     21.     21.     45.     73.     88.    100.    112.    122.    134.
1159          UI    150.    165.    198.    243.    268.    227.    198.    179.    164.    147.
1160          UI    131.    120.    105.     96.     79.     59.     40.     36.     34.     34.
1161          UI     24.     21.     21.     17.      6.      6.      6.      6.      6.      6.
1162          UI      6.      6.      6.      6.      6.      0.      0.      0.      0.      0.
1163          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1164          KK   1I136
1165          KM        ADD HYDROGRAPHS AT CP136
1166          HC       2    1.47

1167          KK   CP136
1168          KM        ADD HYDROGRAPHS AT CP136
1169          HC       2   16.94

1170          KK    R136
1171          KM        ROUTE FLOW FROM CP136 TO CP137
1172          RS       5              -1       0
1173          RC     .08    .035    .035    2640   .0042
1174          RX    1000    1370    1790    3210    3270    3298    3299    3300
1175          RY    1170    1168    1166    1164    1164    1165    1165    1165

1176          KK     137
1177          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 137
1178          BA     .54
1179          LG     .50     .00    4.62     .36     .00
1180          UI     18.     18.     18.     18.     37.     61.     70.     82.     89.     98.
1181          UI    104.    111.    120.    131.    141.    153.    179.    210.    240.    227.
1182          UI    200.    180.    166.    154.    145.    134.    121.    113.    104.     94.
1183          UI     88.     79.     67.     53.     41.     32.     32.     30.     30.     27.
1184          UI     18.     18.     18.     18.     10.      6.      6.      6.      6.      6.
1185          UI      6.      6.      6.      6.      6.      6.      6.      6.      6.      0.
1186          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
1187          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1188          KK   1I137
1189          KM        ADD HYDROGRAPHS AT CP137
1190          HC       2   17.12
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1191          KK    100A
1192          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 100A
1193          BA     .18
1194          LG     .50     .00    4.58     .28     .00
1195          UI     15.     18.     53.     72.     85.    102.    127.    179.    163.    130.
1196          UI    109.     90.     73.     54.     31.     25.     20.     15.      9.      5.
1197          UI      5.      5.      5.      5.      0.      0.      0.      0.      0.      0.
1198          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1199          KK   R100A
1200          KM        ROUTE REMAINDER FROM CP100A TO CP100
1201          RS      23              -1       0
1202          RC      .1      .1      .1    6500   .0058
1203          RX    1000    1200    1350    1550    1825    1950    2200    2500
1204          RY    1280  1279.5    1279    1278    1278    1279    1280  1280.5

1205          KK     100
1206          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 100
1207          BA     .26
1208          LG     .50     .00    4.58     .28     .00
1209          UI     19.     19.     59.     83.    101.    117.    139.    172.    235.    211.
1210          UI    172.    147.    123.    104.     86.     61.     35.     32.     26.     19.
1211          UI     15.      6.      6.      6.      6.      6.      6.      0.      0.      0.
1212          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1213          KK   CP100
1214          KM        ADD HYDROGRAPHS AT CP100
1215          HC       2     .44
```

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1216        KK    R100
1217        KM        ROUTE REMAINDER FROM CP100 TO CP109
1218        RS     23              -1       0
1219        RC     .1      .1      .1    6942   .0058
1220        RX   1000    1200    1350    1550    1825    1950    2200    2500
1221        RY   1280  1279.5    1279    1278    1278    1279    1280  1280.5

1222        KK     109
1223        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 109
1224        BA    .85
1225        LG    .50     .00    4.68     .32     .00
1226        UI    32.     32.     32.     32.     93.    114.    134.    151.    166.    180.
1227        UI   192.    210.    231.    248.    283.    345.    389.    408.    352.    315.
1228        UI   286.    264.    247.    223.    204.    188.    170.    155.    141.    119.
1229        UI    91.     68.     56.     55.     52.     52.     36.     32.     32.     32.
1230        UI    18.     10.     10.     10.     10.     10.     10.     10.     10.     10.
1231        UI    10.     10.     10.      0.      0.      0.      0.      0.      0.      0.
1232        UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1233        KK   CP109
1234        KM        ADD HYDROGRAPHS AT CP109
1235        HC       2    1.29
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1236        KK    R109
1237        KM        ROUTE FLOW FROM CP109 TO CP116
1238        RS      10              -1       0
1239        RC     .05     .05    .075    5694   .0046
1240        RX    1000    1001    1002    1060    1270    1610    1900    2000
1241        RY    1243    1243    1243    1242    1242    1244    1246    1247

1242        KK     116
1243        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 116
1244        BA    1.02
1245        LG    .50     .00    5.44     .33     .00
1246        UI    34.     34.     34.     34.     57.    111.    127.    146.    161.    175.
1247        UI   187.    200.    214.    231.    253.    268.    304.    362.    405.    447.
1248        UI   393.    351.    320.    296.    277.    262.    238.    220.    204.    188.
1249        UI   171.    160.    144.    123.     97.     76.     60.     60.     56.     55.
1250        UI    54.     34.     34.     34.     34.     25.     10.     10.     10.     10.
1251        UI    10.     10.     10.     10.     10.     10.     10.     10.     10.     10.
1252        UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
1253        UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1254        KK   CP116
1255        KM        ADD HYDROGRAPHS AT CP116
1256        HC       2    2.31

1257        KK    R116
1258        KM        ROUTE FLOW FROM CP116 TO CP117
1259        RS       4              -1       0
1260        RC     .05    .022    .022    4300   .0037
1261        RX    1000    1001    1002    1155    1185   1200    1240    1295
1262        RY    1220    1220    1220    1218    1218 1218.5    1218    1221

1263        KK     110
1264        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 110
1265        BA    .31
1266        LG    .46     .08    7.29     .18     .00
1267        UI    17.     17.     24.     59.     73.     87.     97.    108.    125.    142.
1268        UI   183.    219.    192.    162.    143.    129.    111.     98.     85.     72.
1269        UI    53.     35.     30.     28.     23.     17.     17.      9.      5.      5.
1270        UI     5.      5.      5.      5.      5.      5.      0.      0.      0.      0.
1271        UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1272        KK    R110
1273        KM        ROUTE FLOW FROM CP110 TO CP117
1274        RS      10              -1       0
1275        RC     .05     .05    .075    4212   .0050
1276        RX    1000    1001    1002    1015    1240    1740    2320    2670
1277        RY    1223    1223    1223    1222    1222    1224    1226    1228

1278        KK     117
1279        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 117
1280        BA    .41
1281        LG    .35     .09    4.12     .37    8.00
1282        UI    23.     23.     38.     83.    104.    121.    136.    154.    176.    209.
1283        UI   271.    296.    242.    209.    186.    162.    142.    122.    107.     80.
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1284        UI    55.     41.     39.     34.     23.     23.     14.      7.      7.      7.
1285        UI     7.      7.      7.      7.      7.      0.      0.      0.      0.      0.
1286        UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1287        KK   1I117
1288        KM        ADD HYDROGRAPHS AT CP117
1289        HC       2     .72
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1290        KK   21117
1291        KM        ADD HYDROGRAPHS AT CP117
1292        HC       2    3.03

1293        KK    117A
1294        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 117A
1295        BA     .21
1296        LG     .50      .00     6.96      .25      .00
1297        UI     12.      12.      19.      42.      53.      62.      70.      78.      90.     107.
1298        UI    138.     152.     124.     107.      95.      83.      73.      63.      55.      41.
1299        UI     28.      21.      20.      18.      12.      12.       8.       4.       4.       4.
1300        UI      4.       4.       4.       4.       4.       0.       0.       0.       0.       0.
1301        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1302        KK   R117A
1303        KM        ROUTE FLOW FROM CP117A TO CP117
1304        RS       4               -1       0
1305        RC    .035     .035     .06     2000   .0060
1306        RX    1000     1001    1002     1020    1090     1670     1850     2060
1307        RY  1212.5   1212.5  1212.5     1212    1212     1214     1215     1216

1308        KK   CP117
1309        KM        ADD HYDROGRAPHS AT CP117
1310        HC       2    3.24

1311        KK    R117
1312        KM        ROUTE FLOW FROM CP117 TO CP125
1313        RS       5               -1       0
1314        RC    .022     .022     .025     5450   .0033
1315        RX    1000     1001    1002     1025    1060     1355     1765     1910
1316        RY    1197     1197    1197     1196    1196     1198     1200     1201

1317        KK     125
1318        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 125
1319        BA    1.00
1320        LG     .35      .33     4.58      .24      .00
1321        UI     86.     124.     324.     432.     517.     629.     845.    1065.     850.     700.
1322        UI    569.     463.     367.     211.     148.     127.      86.      59.      26.      26.
1323        UI     26.      26.      26.       0.       0.       0.       0.       0.       0.       0.
1324        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1325        KK   1I125
1326        KM        ADD HYDROGRAPHS AT CP125
1327        HC       2    4.24
```



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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1328        KK    D124
1329        KM        RETURN DIVERT AT CP124
1330        DR   DI125

1331        KK    R124
1332        KM        ROUTE FLOW FROM CP124 TO CP125
1333        RS       7               -1       0
1334        RC    .025     .022     .022     5280   .0034
1335        RX    1000     1220    1400     1660    1680     1708     1709     1710
1336        RY    1200     1198    1196     1194    1194     1195     1195     1195

1337        KK   CP125
1338        KM        ADD HYDROGRAPHS AT CP125
1339        HC       2    5.25

1340        KK    D125
1341        KM        DIVERT TO CP126 FROM CP125
1342        DT   DI126
1343        DI       0       29      228      748     1285     2526     4403     6923    10115
1344        DQ       0       10       76      249      428      842     1468     2308     3372

1345        KK    D125
1346        KM        DIVERT TO CP138 FROM CP125
1347        DT   DI138
1348        DI       0       19      152      499      857     1684     2935     4615     6743
1349        DQ       0       10       76      249      428      842     1468     2308     3372

1350        KK    R125
1351        KM        ROUTE REMAINDER FROM CP125 TO CP137
1352        RS       8               -1       0
1353        RC    .035     .035     .075     5280   .0047
1354        RX    1000     1001    1002     1030    1175     1640     2135     2600
1355        RY    1171     1171    1171   1169.5    1170     1172     1174     1176

1356        KK   CP137
1357        KM        ADD HYDROGRAPHS AT CP137
1358        HC       2   21.72

1359        KK    D137
1360        KM        DIVERT TO CP149 FROM CP137
1361        DT   DI149
1362        DI       0        6      169      684     1659     3199     5400     8353    12141
1363        DQ       0        2       56      228      553     1066     1800     2784     4047
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```
1364        KK    D137
1365        KM        DIVERT TO CP153 FROM CP137
1366        DT   DI153
1367        DI       0       4     113     456    1106    2133    3600    6553    8094
1368        DQ       0       2      56     228     553    1066    1800    2784    4047
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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1369        KK    R137
1370        KM        ROUTE REMAINDER FROM CP137 TO CP138
1371        RS      22              -1       0
1372        RC     .08     .03     .03    5280   .0021
1373        RX    1000    2200    2310    2320    2340    2368    2369    2370
1374        RY    1162    1156  1156.5    1156    1156    1157    1157    1157

1375        KK     118
1376        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 118
1377        BA     .15
1378        LG     .50     .00    5.11     .37     .00
1379        UI      8.      8.     11.     28.     35.     41.     47.     52.     60.     68.
1380        UI     87.    104.     94.     79.     70.     62.     54.     48.     41.     36.
1381        UI     27.     18.     14.     13.     12.      8.      8.      5.      3.      3.
1382        UI      3.      3.      3.      3.      3.      3.      0.      0.      0.      0.
1383        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1384        KK    R118
1385        KM        ROUTE FLOW FROM CP118 TO CP126
1386        RS      19              -1       0
1387        RC    .035    .035    .075    6708   .0049
1388        RX    1000    1001    1030    1140    1260    1660    2349    2350
1389        RY  1192.5  1192.5    1192    1190    1190    1191    1192    1192

1390        KK     126
1391        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 126
1392        BA     .95
1393        LG     .50     .00    4.79     .39     .00
1394        UI     35.     35.     35.     35.     95.    123.    143.    164.    179.    193.
1395        UI    208.    223.    247.    266.    295.    345.    412.    460.    407.    360.
1396        UI    325.    299.    279.    258.    233.    215.    197.    177.    165.    144.
1397        UI    118.    100.     62.     61.     59.     57.     57.     35.     35.     35.
1398        UI     35.     16.     11.     11.     11.     11.     11.     11.     11.     11.
1399        UI     11.     11.     11.     11.     11.      0.      0.      0.      0.      0.
1400        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1401        KK   1I126
1402        KM        ADD HYDROGRAPHS AT CP126
1403        HC       2    1.10

1404        KK    D125
1405        KM        RETURN DIVERT AT CP125
1406        DR   DI126

1407        KK    R125
1408        KM        ROUTE FLOW FROM CP125 TO CP126
1409        RS       4              -1       0
1410        RC     .05     .03     .03    5280   .0038
1411        RX    1000    1350    1570    1590    1630    1645    1650    1670
1412        RY    1184    1182    1180    1176    1176    1180    1182    1183
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1413        KK   CP126
1414        KM        ADD HYDROGRAPHS AT CP126
1415        HC       2    6.35

1416        KK    D126
1417        KM        DIVERT TO CP139 FROM CP126
1418        DT   DI139
1419        DI       0     100     500    1000    1500    2000
1420        DQ       0      80     400     800    1200    1600

1421        KK    R126
1422        KM        ROUTE FLOW FROM CP126 TO CP138
1423        RS       8              -1       0
1424        RC    .035    .035    .075    5280   .0030
1425        RX    1000    1001    1002    1010    1180    1560    2020    2200
1426        RY    1161    1161    1161    1160    1160    1162    1164    1165

1427        KK    D125
1428        KM        RETURN DIVERT AT CP125
1429        DR   DI138

1430        KK    R125
1431        KM        ROUTE FLOW FROM CP125 TO CP138
1432        RS      50              -1       0
1433        RC    .075    .075    .075    7500   .0048
1434        RX    1000    1050    1100    1200    2020    2198    2250    2300
1435        RY    1171  1170.5  1170.5    1170    1170  1170.5  1170.5    1171
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```
1436        KK     138
1437        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 138
1438        BA    1.00
1439        LG     .50      .00     4.81      .38      .00
1440        UI     36.      36.      36.      36.      92.     125.     144.     168.     183.     198.
1441        UI    212.     229.     249.     272.     295.     344.     409.     469.     441.     386.
1442        UI    347.     319.     296.     277.     251.     229.     212.     193.     177.     163.
1443        UI    138.     105.      86.      64.      64.      59.      59.      50.      36.      36.
1444        UI     36.      34.      11.      11.      11.      11.      11.      11.      11.      11.
1445        UI     11.      11.      11.      11.      11.      11.       0.       0.       0.       0.
1446        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1447        KK   1I138
1448        KM        ADD HYDROGRAPHS AT CP138
1449        HC       2    6.25

1450        KK   2I138
1451        KM        ADD HYDROGRAPHS AT CP138
1452        HC       2    7.35

1453        KK   CP138
1454        KM        ADD HYDROGRAPHS AT CP138
1455        HC       2   23.82
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1456        KK    D137
1457        KM        RETURN DIVERT AT CP137
1458        DR   DI153

1459        KK    R137
1460        KM        ROUTE FLOW FROM CP137 TO CP153
1461        RS      51              -1       0
1462        RC    .075     .075     .075    5600    .0018
1463        RX     900     1000     1200    1450     1800     2000     2300     2450
1464        RY  1156.5     1156     1155  1154.7   1154.7     1155     1156   1156.5

1465        KK     153
1466        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 153
1467        BA     .20
1468        LG     .50      .00     3.58      .43      .00
1469        UI      7.       7.       7.       7.      17.      24.      28.      33.      35.      39.
1470        UI     41.      44.      48.      53.      56.      65.      79.      87.      91.      79.
1471        UI     71.      65.      60.      56.      52.      47.      43.      40.      36.      33.
1472        UI     29.      24.      20.      13.      12.      12.      12.      12.       8.       7.
1473        UI      7.       7.       5.       2.       2.       2.       2.       2.       2.       2.
1474        UI      2.       2.       2.       2.       2.       2.       0.       0.       0.       0.
1475        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1476        KK   CP153
1477        KM        ADD HYDROGRAPHS AT CP153
1478        HC       2   21.92

1479        KK   CP138
1480        KM        ADD HYDROGRAPHS AT CP138
1481        HC       2   24.02

1482        KK   SR138
1483        KM        STOAGE ROUTE BEHIND RAILROAD.
1484        RS       1    STOR       0       0
1485        SV       0    0.02    1.88    8.52   32.96
1486        SQ       0      18     465    1658    8940
1487        SE  1047.9    1048  1048.5    1049    1050

1488        KK    D138
1489        KM        DIVERT TO CP154 FROM CP138
1490        DT   DI154
1491        DI       0      44     392    1366    3326    6347   10546   16046
1492        DQ       0      30     268     874    1974    3682    6100    9324

1493        KK    R138
1494        KM        ROUTE REMAINDER FROM CP138 TO CP157
1495        RS      15              -1       0
1496        RC    .075     .04     .075    6708   .0051
1497        RX    1000    1001     1580    2290    2450     2710     2799     2800
1498        RY    1140    1140     1138    1136    1136     1138     1140     1140
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1499        KK    D138
1500        KM        RETURN DIVERT AT CP138
1501        DR   DI154

1502        KK    R138
1503        KM        ROUTE FLOW FROM CP138 TO CP154
1504        RS      15              -1       0
1505        RC     .08      .08      .08    2640   .0026
1506        RX    1000    1001     1002    1025    1160     1840     2099     2100
```

```
1507          RY    1145    1145    1145    1144    1144    1146    1148    1148

1508          KK     154
1509          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 154
1510          BA     .17
1511          LG     .50     .00    3.53     .39     .00
1512          UI     12.     12.     36.     53.     64.     74.     87.    106.    146.    142.
1513          UI    114.     98.     82.     69.     58.     43.     27.     21.     19.     12.
1514          UI     12.      5.      4.      4.      4.      4.      4.      4.      0.      0.
1515          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1516          KK   CP154
1517          KM        ADD HYDROGRAPHS AT CP154
1518          HC       2   24.19

1519          KK    R154
1520          KM        ROUTE FLOW FROM CP154 TO CP157
1521          RS      19              -1       0
1522          RC     .07     .06     .07    5800   .0048
1523          RX    1000    1001    1580    2290    2450    2710    3199    3200
1524          RY    1140    1140    1138    1136    1136    1138    1140    1140

1525          KK     157
1526          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 157
1527          BA     .89
1528          LG     .28     .00    3.71     .30     .00
1529          UI     64.     64.    193.    278.    339.    392.    463.    568.    781.    736.
1530          UI    593.    510.    427.    361.    303.    216.    133.    109.     97.     64.
1531          UI     63.     20.     20.     20.     20.     20.     20.     20.      0.      0.
1532          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1533          KK   1I157
1534          KM        ADD HYDROGRAPHS AT CP157
1535          HC       2   25.08

1536          KK   2I157
1537          KM        ADD HYDROGRAPHS AT CP157
1538          HC       2   25.08

1539          KK     127
1540          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 127
1541          BA     .22
1542          LG     .12     .18    7.17     .15   20.00
1543          UI     90.    276.    510.    430.    243.     91.     37.     15.      0.      0.
1544          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1545          KK    R127
1546          KM        ROUTE FLOW FROM CP127 TO CP139
1547          RS      29              -1       0
1548          RC     .08     .08     .08    3744   .0032
1549          RX    1000    1001    1002    1410    1820    2410    2860    3000
1550          RY    1155    1155    1155    1154    1154    1156    1158    1159

1551          KK     139
1552          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 139
1553          BA     .47
1554          LG     .50     .00    5.73     .32     .00
1555          UI     20.     20.     20.     41.     71.     85.     98.    110.    118.    130.
1556          UI    145.    158.    185.    227.    264.    242.    209.    187.    169.    156.
1557          UI    139.    126.    113.    101.     90.     72.     57.     36.     36.     34.
1558          UI     34.     22.     20.     20.     16.      6.      6.      6.      6.      6.
1559          UI      6.      6.      6.      6.      6.      6.      0.      0.      0.      0.
1560          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1561          KK   1I139
1562          KM        ADD HYDROGRAPHS AT CP139
1563          HC       2     .69

1564          KK    D126
1565          KM        RETURN DIVERT AT CP126.
1566          DR   DI139

1567          KK    R126
1568          KM        ROUTE FLOW FROM CP126 TO CP139
1569          RS      29              -1       0
1570          RC     .08     .08     .08    3744   .0032
1571          RX    1000    1001    1002    1410    1820    2410    2860    3000
1572          RY    1155    1155    1155    1154    1154    1156    1158    1159

1573          KK   2I139
1574          KM        ADD HYDROGRAPHS AT CP139
1575          HC       2    7.04

1576          KK     140
1577          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 140
1578          BA     .18
1579          LG     .50     .00    5.47     .25     .00
1580          UI     13.     13.     35.     53.     65.     75.     88.    104.    142.    155.
1581          UI    123.    105.     90.     76.     64.     52.     33.     22.     21.     16.
```

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1582        UI     13.      9.      4.      4.      4.      4.      4.      4.      0.      0.
1583        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1584        KK   CP139
1585        KM        ADD HYDROGRAPHS AT CP139
1586        HC       2    7.22
                                        HEC-1 INPUT                                          PAGE 37
1
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1587        KK   SR139
1588        KM        STOAGE ROUTE BEHIND RAILROAD.
1589        RS       1    STOR       0       0
1590        SV       0    1.14    3.12    6.43   29.35
1591        SQ       0       0     170    1037    5977
1592        SE  1046.2  1047.2  1047.5    1048    1049

1593        KK    R139
1594        KM        ROUTE FLOW FROM CP139 TO CP156
1595        RS       9              -1       0
1596        RC    .075    .075    .075    2028   .0059
1597        RX    1000    1310    1500    1610    1850    2020    3199    3200
1598        RY    1147    1146    1144    1143    1143    1144    1146    1146

1599        KK     156
1600        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 156
1601        BA     .30
1602        LG     .35     .09    3.95     .38    8.00
1603        UI     18.     18.     33.     64.     82.     94.    106.    121.    139.    173.
1604        UI    223.    206.    171.    149.    132.    113.     99.     85.     69.     47.
1605        UI     31.     30.     28.     18.     18.     12.      5.      5.      5.      5.
1606        UI      5.      5.      5.      5.      0.      0.      0.      0.      0.      0.
1607        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1608        KK   CP156
1609        KM        ADD HYDROGRAPHS AT CP156
1610        HC       2    7.52

1611        KK    R156
1612        KM        ROUTE FLOW FROM CP156 TO CP157
1613        RS      34              -1       0
1614        RC     .05     .05    .075    5850   .0036
1615        RX    1000    1001    1002    1020    1110    1400    1900    2320
1616        RY    1133    1133    1133    1132    1132    1133    1131    1133

1617        KK   CP157
1618        KM        ADD HYDROGRAPHS AT CP157
1619        HC       2   26.25

1620        KK    R157
1621        KM        ROUTE FLOW FROM CP157 TO CP172
1622        RS       3              -1       0
1623        RC    .035    .022     .06    1150   .0035
1624        RX    1000    1001    1020    1035    1075    1090    1210    1770
1625        RY    1117    1117    1116    1114    1114    1115    1113    1117

1626        KK     172
1627        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 172
1628        BA     .12
1629        LG     .50     .00    3.91     .42     .00
1630        UI      9.      9.     28.     39.     47.     55.     66.     82.    112.     96.
1631        UI     79.     68.     56.     47.     39.     26.     16.     15.     11.      9.
1632        UI      6.      3.      3.      3.      3.      3.      3.      0.      0.      0.
1633        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
                                        HEC-1 INPUT                                          PAGE 38
1
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1634        KK   CP172
1635        KM        ADD HYDROGRAPHS AT CP172
1636        HC       2   26.37

1637        KK    R172
1638        KM        ROUTE FLOW FROM CP172 TO CP173
1639        RS       4              -1       0
1640        RC    .075     .03    .075    4500   .0042
1641        RX    1000    1200    1360    1380    1430    1470    1639    1640
1642        RY    1111    1110    1108    1106    1106    1108    1110    1110

1643        KK     173
1644        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 173
1645        BA     .31
1646        LG     .50     .00    4.25     .69     .00
1647        UI     15.     15.     15.     43.     57.     71.     79.     87.     96.    109.
1648        UI    121.    146.    184.    191.    160.    139.    125.    114.    100.     90.
1649        UI     79.     71.     57.     43.     27.     26.     25.     22.     15.     15.
1650        UI     14.      5.      5.      5.      5.      5.      5.      5.      5.      5.
1651        UI      5.      0.      0.      0.      0.      0.      0.      0.      0.      0.
1652        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1653        KK   CP173
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1654        KM        ADD HYDROGRAPHS AT CP173
1655        HC       2   26.68

1656        KK    156A
1657        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 156A
1658        BA     .31
1659        LG     .12      .25     4.28      .53    20.00
1660        UI     82.     276.     434.     664.     443.     275.     114.      65.      18.      18.
1661        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
1662        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1663        KK   R156A
1664        KM        ROUTE FLOW FROM CP156A TO CP158
1665        RS      34                -1        0
1666        RC     .07      .07      .07     5400    .0030
1667        RX    1000     1001     1002     1380     2200     2838     2839     2840
1668        RY    1117     1117     1117     1116     1116     1118     1118     1118

1669        KK     158
1670        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 158
1671        BA     .97
1672        LG     .39      .08     3.97      .91     6.00
1673        UI     44.      44.      44.     100.     156.     188.     216.     240.     261.     288.
1674        UI    323.     356.     430.     534.     560.     473.     416.     374.     344.     307.
1675        UI    274.     247.     220.     197.     157.     123.      77.      77.      72.      71.
1676        UI     44.      44.      44.      26.      13.      13.      13.      13.      13.      13.
1677        UI     13.      13.      13.      13.       0.       0.       0.       0.       0.       0.
1678        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1679        KK   1I158
1680        KM        ADD HYDROGRAPHS AT CP158
1681        HC       2    1.28

1682        KK    158C
1683        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 158C
1684        BA     .09
1685        LG     .46      .03     7.25      .21     9.00
1686        UI      7.       7.      25.      33.      40.      47.      57.      78.      86.      67.
1687        UI     57.      47.      39.      31.      21.      12.      12.       8.       7.       3.
1688        UI      2.       2.       2.       2.       2.       0.       0.       0.       0.       0.
1689        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1690        KK   R158C
1691        KM        ROUTE FLOW FROM CP158C TO CP158B
1692        RS      12                -1        0
1693        RC     .07     .035      .07    10770    .0056
1694        RX    1000     1001     1120     1600     1670     1688     1689     1690
1695        RY  1062.5   1062.5     1062     1060     1060   1062.5   1062.5   1062.5

1696        KK    158B
1697        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 158B
1698        BA     .67
1699        LG     .31      .11     3.50      .39    10.00
1700        UI     33.      33.      33.      95.     124.     154.     171.     189.     209.     237.
1701        UI    263.     319.     404.     410.     344.     301.     271.     246.     215.     193.
1702        UI    169.     154.     121.      92.      58.      57.      54.      47.      33.      33.
1703        UI     29.      10.      10.      10.      10.      10.      10.      10.      10.      10.
1704        UI     10.       0.       0.       0.       0.       0.       0.       0.       0.       0.
1705        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1706        KK  CP158B
1707        KM        ADD HYDROGRAPHS AT CP158B
1708        HC       2     .76

1709        KK   R158B
1710        KM        ROUTE FLOW FROM CP158B TO CP158A
1711        RS       4                -1        0
1712        RC    .035     .035     .035     2500    .0024
1713        RX    1000     1130     1200     1240     1315     1338     1339     1340
1714        RY    1129     1128     1124     1122     1122     1126     1126     1126

1715        KK    158A
1716        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 158A
1717        BA     .38
1718        LG     .50      .00     2.81     1.90      .00
1719        UI     15.      15.      15.      18.      50.      57.      68.      75.      83.      89.
1720        UI     96.     107.     116.     131.     161.     185.     193.     165.     147.     133.
1721        UI    123.     114.     102.      93.      85.      76.      70.      59.      45.      35.
1722        UI     27.      26.      25.      25.      16.      15.      15.      15.       5.       5.
1723        UI      5.       5.       5.       5.       5.       5.       5.       5.       5.       5.
1724        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
1725        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1726        KK  CP158A
1727        KM        ADD HYDROGRAPHS AT CP158A
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1728        HC       2    1.14

1729        KK  SR158A
1730        KM        STORAGE ROUTE THROUGH AT&SF RAILROAD BRIDGE
1731        RS       1    STOR       0       0
1732        SV       0    5.23    9.23   28.93   36.79   74.04  110.59   159.4  177.39  225.93
1733        SQ       0       0       0       0       0    1687    3972    6993    8033   11282
1734        SE  1101.5    1108    1110    1114    1115    1118    1120    1122  1122.6    1124

1735        KK   D158A
1736        KM        DIVERT FLOW TO THE AGUA FRIA RIVER
1737        DT  DI158A
1738        DI       0    1687    3972    6993    8033   11282
1739        DQ       0       0       0       0       0     592

1740        KK   R158A
1741        KM        ROUTE REMAINDER FROM CP158A TO CP158
1742        RS       9              -1       0
1743        RC     .07    .035     .07    5300   .0028
1744        RX    1000    1001    1235    1240    1290    1300    1345    1450
1745        RY    1117    1117    1116    1114    1114    1116    1118    1119

1746        KK   CP158
1747        KM        ADD HYDROGRAPHS AT CP158
1748        HC       2    2.42

1749        KK    R158
1750        KM        ROUTE FLOW FROM CP158 TO CP173B
1751        RS       6              -1       0
1752        RC     .07     .04     .07    4524   .0035
1753        RX    1000    1001    1240    1360    1440    1500    1650    1750
1754        RY    1113    1113    1112    1110    1110    1112    1114    1115

1755        KK    173B
1756        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 173B
1757        BA     .20
1758        LG     .46     .11    3.20    1.40     .00
1759        UI     12.     12.     21.     42.     53.     61.     69.     78.     90.    109.
1760        UI    143.    141.    116.    101.     89.     77.     67.     58.     49.     35.
1761        UI     22.     20.     19.     13.     12.     11.      4.      4.      4.      4.
1762        UI      4.      4.      4.      4.      0.      0.      0.      0.      0.      0.
1763        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1764        KK  CP173B
1765        KM        ADD HYDROGRAPHS AT CP173B
1766        HC       2    2.62
```



```
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1767        KK    158E
1768        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 158E
1769        BA     .45
1770        LG     .17     .23    3.78     .39   16.00
1771        UI    105.    366.    561.    918.    672.    441.    208.    109.     48.     25.
1772        UI     25.      0.      0.      0.      0.      0.      0.      0.      0.      0.
1773        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1774        KK   R158E
1775        KM        ROUTE FLOW FROM CP158E TO CP158D
1776        RS       6              -1       0
1777        RC     .03     .03     .03    3500   .0029
1778        RX    1000    1001    1200    1240    1290    1310    1549    1550
1779        RY    1151    1151    1150    1148    1148    1150    1151    1151

1780        KK    158D
1781        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 158D
1782        BA     .37
1783        LG     .21     .23    3.73     .39   12.00
1784        UI     56.    221.    334.    501.    637.    439.    306.    169.     92.     54.
1785        UI     17.     17.     17.      0.      0.      0.      0.      0.      0.      0.
1786        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1787        KK  RC158D
1788        KM        ADD HYDROGRAPHS AT RCP158D
1789        HC       2     .82

1790        KK  RR158D
1791        KM        RIVER ROUTE FLOW AT RCP158D TO RCP158A
1792        RS       6              -1       0
1793        RC    .035    .035    .035    7200    .005
1794        RX    1000    1001    1002    1042    2042    2082    2083    2084
1795        RY    1135    1135    1135    1125    1125    1135    1135    1135

1796        KK   D158A
1797        KM        RETURN DIVERT AT RCP158A
1798        DR  DI158A

1799        KK  RC158A
1800        KM        ADD HYDROGRAPHS AT RCP158A
1801        HC       2    1.96
```

```
1802          KK  RR158A
1803          KM        RIVER ROUTE FLOW AT RCP158A TO RCP173B
1804          RS       6              -1       0
1805          RC     .04     .035     .04     9500     .005
1806          RX    1000     1001    1002     1042     2042     2082     2083     2084
1807          RY    1110     1110    1110     1100     1100     1110     1110     1110
```



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1                                          HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1808          KK  RC173B
1809          KM        ADD HYDROGRAPHS AT RCP173B
1810          HC       2    3.44

1811          KK  RCP173
1812          KM        ADD HYDROGRAPHS AT RCP173
1813          HC       2   30.12

1814          KK   RR173
1815          KM        RIVER ROUTE FLOW FROM RCP173 TO RCP173A
1816          RS       1              -1       0
1817          RC    .035     .035    .035     1650    .0050
1818          RX    1000     1001    1002     1042     2042     2082     2083     2084
1819          RY    1101     1101    1101     1091     1091     1101     1101     1101

1820          KK     171
1821          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 171
1822          BA     .70
1823          LG     .50      .00    4.97      .32      .00
1824          UI     24.      24.     24.      24.      47.      78.      91.     106.     115.     126.
1825          UI    135.     143.    154.     169.     181.     197.     229.     271.     307.     296.
1826          UI    260.     235.    215.     200.     188.     174.     157.     147.     137.     122.
1827          UI    114.     105.     90.      68.      56.      42.      42.      39.      39.      38.
1828          UI     24.      24.     24.      24.      15.       7.       7.       7.       7.       7.
1829          UI      7.       7.      7.       7.       7.       7.       7.       7.       7.       0.
1830          UI      0.       0.      0.       0.       0.       0.       0.       0.       0.       0.
1831          UI      0.       0.      0.       0.       0.       0.       0.       0.       0.       0.

1832          KK    R171
1833          KM        ROUTE FLOW FROM CP171 TO CP173A
1834          RS       3              -1       0
1835          RC    .075      .04     .04     2100    .0076
1836          RX    1000     1001    1170     1940     2005     2048     2049     2050
1837          RY    1105     1105    1104     1102     1102     1103     1103     1103

1838          KK    173A
1839          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 173A
1840          BA     .20
1841          LG     .50      .00    5.03      .30      .00
1842          UI     12.      12.     26.      46.      58.      67.      76.      88.     102.     133.
1843          UI    158.     130.    110.      97.      83.      73.      62.      52.      37.      22.
1844          UI     21.      20.     12.      12.       8.       4.       4.       4.       4.       4.
1845          UI      4.       4.      0.       0.       0.       0.       0.       0.       0.       0.
1846          UI      0.       0.      0.       0.       0.       0.       0.       0.       0.       0.

1847          KK  CP173A
1848          KM        ADD HYDROGRAPHS AT CP173A
1849          HC       2     .90
```



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1                                          HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1850          KK  RC173A
1851          KM        ADD HYDROGRAPHS AT RCP173A
1852          HC       2   31.02

1853          KK  RR173A
1854          KM        RIVER ROUTE FLOW FROM RCP173A TO RCP187
1855          RS       3              -1       0
1856          RC    .035     .035    .035     5600    .0050
1857          RX    1000     1001    1002     1042     2042     2082     2083     2084
1858          RY    1092     1092    1092     1082     1082     1092     1092     1092

1859          KK     186
1860          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 186
1861          BA     .33
1862          LG     .50      .00    3.52      .47      .00
1863          UI     12.      12.     12.      12.      35.      44.      51.      58.      64.      69.
1864          UI     74.      80.     88.      95.     108.     131.     149.     159.     138.     123.
1865          UI    112.     103.     96.      87.      80.      73.      67.      61.      56.      47.
1866          UI     36.      29.     22.      21.      20.      20.      15.      12.      12.      12.
1867          UI      9.       4.      4.       4.       4.       4.       4.       4.       4.       4.
1868          UI      4.       4.      4.       4.       0.       0.       0.       0.       0.       0.
1869          UI      0.       0.      0.       0.       0.       0.       0.       0.       0.       0.

1870          KK    R186
1871          KM        ROUTE FLOW FROM CP186 TO CP187
1872          RS       5              -1       0
1873          RC     .08      .04     .04     1950    .0035
1874          RX    1000     1001    1200     1320     1690     1828     1829     1830
1875          RY    1097     1097    1096   1094.5   1094.5     1095     1095     1095
```

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1876        KK     187
1877        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 187
1878        BA     .35
1879        LG     .46      .10     4.02      .39      .00
1880        UI     66.     147.      37.       5.       0.       0.       0.       0.       0.       0.
1881        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1882        KK   CP187
1883        KM        ADD HYDROGRAPHS AT CP187
1884        HC       2     .68

1885        KK  RCP187
1886        KM        ADD HYDROGRAPHS AT RCP187
1887        HC       2   31.70

1888        KK   RR187
1889        KM        RIVER ROUTE FLOW FROM RCP187 TO RCP200
1890        RS       3                -1        0
1891        RC    .035     .035     .035     5460    .0050
1892        RX    1000     1001     1002     1042     2042     2082     2083     2084
1893        RY    1080     1080     1080     1070     1070     1080     1080     1080
```



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1                                          HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1894        KK     199
1895        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 199
1896        BA     .11
1897        LG     .50      .00     3.67      .45      .00
1898        UI      5.       5.       5.      11.      17.      21.      24.      27.      29.      32.
1899        UI     36.      40.      48.      59.      64.      54.      47.      43.      39.      35.
1900        UI     31.      28.      25.      23.      18.      14.       9.       9.       8.       8.
1901        UI      5.       5.       5.       4.       2.       2.       2.       2.       2.       2.
1902        UI      2.       2.       2.       2.       0.       0.       0.       0.       0.       0.
1903        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1904        KK    R199
1905        KM        ROUTE FLOW FROM CP199 TO CP200
1906        RS       9                -1        0
1907        RC     .08      .08      .08     2180    .0138
1908        RX    1000     1001     1002     1150     1700     1948     1949     1950
1909        RY    1077     1077     1077     1076     1076     1077     1077     1077

1910        KK     200
1911        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 200
1912        BA     .29
1913        LG     .43      .18     3.70      .41      .00
1914        UI     19.      19.      44.      74.      92.     105.     121.     140.     172.     230.
1915        UI    220.     179.     155.     135.     115.      98.      82.      59.      36.      32.
1916        UI     30.      19.      19.      11.       6.       6.       6.       6.       6.       6.
1917        UI      6.       0.       0.       0.       0.       0.       0.       0.       0.       0.
1918        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

1919        KK   CP200
1920        KM        ADD HYDROGRAPHS AT CP200
1921        HC       2     .40

1922        KK  RCP200
1923        KM        ADD HYDROGRAPHS AT RCP200
1924        HC       2   32.10

1925        KK   RR200
1926        KM        RIVER ROUTE FLOW FROM RCP200 TO RCP206
1927        RS       2                -1        0
1928        RC    .035     .035     .035     2960    .0050
1929        RX    1000     1001     1002     1042     2042     2082     2083     2084
1930        RY    1070     1070     1070     1060     1060     1070     1070     1070

1931        KK     141
1932        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 141
1933        BA     .47
1934        LG     .35      .34     4.07      .52      .00
1935        UI     52.     126.     241.     310.     403.     607.     538.     413.     317.     239.
1936        UI    135.      88.      61.      41.      16.      16.      16.      16.       0.       0.
1937        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
```



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1                                          HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


1938        KK    R141
1939        KM        ROUTE FLOW FROM CP141 TO CP141A
1940        RS       1                -1        0
1941        RC    .025     .022     .022     1650    .0091
1942        RX    1000     1580     2170     2200     2230     2248     2249     2250
1943        RY    1194     1192     1190     1188     1188     1189     1189     1189

1944        KK    141A
1945        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 141A
1946        BA     .14
1947        LG     .35      .35     4.08      .52      .00
```

```
1948        UI     35.    122.    188.    302.    213.    138.     62.     34.     13.      8.
1949        UI      8.      0.      0.      0.      0.      0.      0.      0.      0.      0.
1950        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1951        KK  CP141A
1952        KM        ADD HYDROGRAPHS AT CP141A
1953        HC       2     .62

1954        KK   R141A
1955        KM        ROUTE FLOW FROM CP141A TO CP142
1956        RS       2              -1       0
1957        RC     .06    .035    .035    2640   .0079
1958        RX    1000    1620    2100    2220    2250    2268    2269    2270
1959        RY    1276    1274    1272    1270    1270    1271    1271    1271

1960        KK     142
1961        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 142
1962        BA     .51
1963        LG     .50     .00    4.18     .47     .00
1964        UI     24.     24.     24.     59.     86.    105.    119.    132.    144.    161.
1965        UI    180.    203.    258.    300.    281.    241.    213.    194.    176.    155.
1966        UI    140.    124.    112.     94.     70.     48.     42.     39.     39.     26.
1967        UI     24.     24.     16.      7.      7.      7.      7.      7.      7.      7.
1968        UI      7.      7.      7.      0.      0.      0.      0.      0.      0.      0.
1969        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1970        KK   CP142
1971        KM        ADD HYDROGRAPHS AT CP142
1972        HC       2    1.13

1973        KK    R142
1974        KM        ROUTE FLOW FROM CP142 TO CP143
1975        RS       8              -1       0
1976        RC     .07    .022    .022    2640   .0075
1977        RX    1000    1800    2235    2250    2275    2288    2289    2290
1978        RY    1250    1245    1247    1246    1246    1247    1247    1247

1979        KK     143
1980        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 143
1981        BA     .50
1982        LG     .50     .00    4.00     .41     .00
1983        UI     23.     23.     23.     57.     83.    101.    116.    128.    140.    155.
1984        UI    174.    196.    248.    289.    279.    237.    210.    190.    174.    153.
```



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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

1985        UI    138.    123.    110.     94.     71.     50.     41.     39.     38.     28.
1986        UI     23.     23.     18.      7.      7.      7.      7.      7.      7.      7.
1987        UI      7.      7.      7.      0.      0.      0.      0.      0.      0.      0.
1988        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

1989        KK   CP143
1990        KM        ADD HYDROGRAPHS AT CP143
1991        HC       2    1.63

1992        KK    R143
1993        KM        ROUTE FLOW FROM CP143 TO CP144
1994        RS       2              -1       0
1995        RC     .07     .03     .03    2640   .0072
1996        RX    1000    1490    2250    2370    2380    2394    2398    2400
1997        RY    1238    1236    1234    1232    1232    1233    1233    1233

1998        KK    D130
1999        KM        RETURN DIVERT AT CP130
2000        DR   DI144

2001        KK    R130
2002        KM        ROUTE FLOW FROM CP130 TO CP144
2003        RS       7              -1       0
2004        RC    .035    .035    .075    5280   .0049
2005        RX    1000    1001    1002    1020    1110    1570    2080    2370
2006        RY    1239    1239    1239    1238    1238    1240    1242    1244

2007        KK     144
2008        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 144
2009        BA     .51
2010        LG     .50     .00    3.65     .46     .00
2011        UI     23.     23.     23.     58.     85.    103.    118.    130.    142.    159.
2012        UI    178.    200.    253.    294.    285.    242.    215.    194.    177.    156.
2013        UI    141.    125.    112.     96.     72.     51.     42.     39.     39.     28.
2014        UI     23.     23.     18.      7.      7.      7.      7.      7.      7.      7.
2015        UI      7.      7.      7.      0.      0.      0.      0.      0.      0.      0.
2016        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2017        KK   1I144
2018        KM        ADD HYDROGRAPHS AT CP144
2019        HC       2    6.05

2020        KK   CP144
2021        KM        ADD HYDROGRAPHS AT CP144
2022        HC       2    7.68
```

```
2023          KK    D144
2024          KM        DIVERT TO CP164A FROM CP144
2025          DT   D164A
2026          DI       0     407    1451    2130    3746    6248    9200   13452
2027          DQ       0       0     123     241     602    1278    1864    3217
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1                                   HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2028          KK    R144
2029          KM        ROUTE REMAINDER FROM CP144 TO CP145A
2030          RS       7              -1       0
2031          RC    .075     .04     .04    2640   .0045
2032          RX    1000    1001    1630    2095    2150    2198    2199    2200
2033          RY    1220    1216    1216    1214    1214    1215    1215    1215

2034          KK    145A
2035          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 145A
2036          BA     .49
2037          LG     .50     .00    3.78     .42     .00
2038          UI     21.     21.     21.     41.     73.     87.    101.    113.    122.    134.
2039          UI    149.    163.    188.    234.    270.    255.    219.    195.    178.    163.
2040          UI    146.    131.    119.    106.     96.     78.     61.     39.     37.     35.
2041          UI     35.     25.     21.     21.     19.      6.      6.      6.      6.      6.
2042          UI      6.      6.      6.      6.      6.      6.      0.      0.      0.      0.
2043          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2044          KK  CP145A
2045          KM        ADD HYDROGRAPHS AT CP145A
2046          HC       2    8.17

2047          KK   R145A
2048          KM        ROUTE REMAINDER FROM CP145A TO CP145
2049          RS       7              -1       0
2050          RC    .075     .04     .04    2640   .0045
2051          RX    1000    1001    1630    2095    2150    2198    2199    2200
2052          RY    1220    1216    1216    1214    1214    1215    1215    1215

2053          KK    D131
2054          KM        RETURN DIVERT AT CP131
2055          DR   DI145

2056          KK    R131
2057          KM        ROUTE FLOW FROM CP131 TO CP145
2058          RS       8              -1       0
2059          RC     .04     .04    .075    5280   .0043
2060          RX    1000    1001    1002    1020    1050    1820    2210    2230
2061          RY    1213    1213    1213    1212    1212    1214    1216    1218

2062          KK     145
2063          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 145
2064          BA     .48
2065          LG     .50     .00    3.78     .42     .00
2066          UI     21.     21.     21.     47.     76.     91.    104.    117.    126.    139.
2067          UI    156.    171.    204.    251.    279.    238.    208.    187.    171.    155.
2068          UI    138.    125.    110.    101.     84.     63.     44.     38.     36.     35.
2069          UI     26.     21.     21.     19.      7.      7.      7.      7.      7.      7.
2070          UI      7.      7.      7.      7.      7.      0.      0.      0.      0.      0.
2071          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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1                                   HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2072          KK   1I145
2073          KM        ADD HYDROGRAPHS AT CP145
2074          HC       2     9.0

2075          KK   CP145
2076          KM        ADD HYDROGRAPHS AT CP145
2077          HC       2   11.63

2078          KK    D145
2079          KM        DIVERT TO CP164 FROM CP145
2080          DT   DI164
2081          DI       0      37     218     475    1177    1902    3592    5561    8738
2082          DQ       0       0       0      34     193     517    1285    1864    3181

2083          KK    D145
2084          KM        DIVERT TO CP165 FROM CP145
2085          DT   DI165
2086          DI       0      37     218     441     984    1385    2307    3697    5557
2087          DQ       0       0       0     111     383     584    1044    1740    2690

2088          KK    R145
2089          KM        ROUTE REMAINDER FROM CP145 TO CP146
2090          RS       5              -1       0
2091          RC    .075    .035    .035    4850   .0056
2092          RX    1000    1320    1650    1930    1955    1968    1969    1970
2093          RY    1192    1190    1188    1186    1186    1187    1187    1187

2094          KK    D133
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2095          KM        RETURN DIVERT AT CP133
2096          DR   DI146

2097          KK    R133
2098          KM        ROUTE FLOW FROM CP133 TO CP146
2099          RS       8              -1        0
2100          RC    .035     .035    .075    5280   .0068
2101          RX    1000     1001    1002    1015    1080    1440    1740    2130
2102          RY    1187     1187    1187    1186    1186    1188    1190    1192

2103          KK     146
2104          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 146
2105          BA     .90
2106          LG     .50      .00    3.51     .47     .00
2107          UI     36.      36.     36.     47.    119.    138.    166.    182.    199.    215.
2108          UI    233.     260.    281.    323.    399.    452.    449.    386.    344.    314.
2109          UI    290.     266.    238.    217.    197.    178.    161.    132.    104.     70.
2110          UI     64.      61.     59.     52.     36.     36.     36.     25.     11.     11.
2111          UI     11.      11.     11.     11.     11.     11.     11.     11.     11.     11.
2112          UI      0.       0.      0.      0.      0.      0.      0.      0.      0.      0.
2113          UI      0.       0.      0.      0.      0.      0.      0.      0.      0.      0.
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1                                   HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2114          KK   1I146
2115          KM        ADD HYDROGRAPHS AT CP146
2116          HC       2   15.02

2117          KK   CP146
2118          KM        ADD HYDROGRAPHS AT CP146
2119          HC       2   18.49

2120          KK    D146
2121          KM        DIVERT TO CP165 FROM CP146
2122          DT   1D165
2123          DI       0     240    5000
2124          DQ       0     240     240

2125          KK    D166
2126          KM        DIVERT ARTIFICIALLY,TO BE RETREIVED LATER
2127          DT   DD166
2128          DI       0    5000
2129          DQ       0    5000

2130          KK    D146
2131          KM        RETURN DIVERT AT CP146
2132          DR   1D165

2133          KK    R146
2134          KM        ROUTE FLOW FROM CP146 TO CP165
2135          RS       7              -1        0
2136          RC     .04      .04    .075    5280   .0047
2137          RX    1000     1001    1002    1035    1085    1570    2180    2500
2138          RY    1159     1159    1159    1158    1158    1160    1162    1163

2139          KK     159
2140          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 159
2141          BA     .58
2142          LG     .35      .34    3.81     .65     .00
2143          UI     66.     169.    316.    407.    539.    797.    641.    495.    375.    269.
2144          UI    139.     105.     66.     33.     20.     20.     20.      0.      0.      0.
2145          UI      0.       0.      0.      0.      0.      0.      0.      0.      0.      0.

2146          KK    R159
2147          KM        ROUTE FLOW FROM CP159 TO CP160
2148          RS       1              -1        0
2149          RC    .022     .022    .025     830   .0036
2150          RX    1000     1001    1002    1020    1060    1150    1320    1440
2151          RY    1265     1265    1265    1264    1264    1266    1268    1270

2152          KK     160
2153          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 160
2154          BA     .39
2155          LG     .35      .33    3.98     .34     .00
2156          UI     41.      92.    184.    238.    301.    435.    474.    354.    279.    216.
2157          UI    150.      79.     64.     41.     22.     13.     13.     13.     13.      0.
2158          UI      0.       0.      0.      0.      0.      0.      0.      0.      0.      0.
2159          UI      0.       0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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1                                   HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2160          KK   CP160
2161          KM        ADD HYDROGRAPHS AT CP160
2162          HC       2     .97

2163          KK    R160
2164          KM        ROUTE FLOW FROM CP160 TO CP161
2165          RS       3              -1        0
2166          RC    .075     .04     .04    2650   .0072
```

```
2167        RX    1000    1001    1210    1630    1670    1688    1689    1690
2168        RY    1259    1259    1258    1256    1256    1257    1257    1257

2169        KK     161
2170        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 161
2171        BA     .50
2172        LG     .49     .03    4.09     .77     .00
2173        UI     24.     24.     24.     70.     92.    114.    127.    140.    155.    176.
2174        UI    195.    236.    297.    307.    258.    225.    202.    184.    161.    145.
2175        UI    127.    115.     93.     70.     43.     42.     40.     36.     24.     24.
2176        UI     23.      7.      7.      7.      7.      7.      7.      7.      7.      7.
2177        UI      7.      0.      0.      0.      0.      0.      0.      0.      0.      0.
2178        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2179        KK   CP161
2180        KM        ADD HYDROGRAPHS AT CP161
2181        HC       2    1.47

2182        KK    R161
2183        KM        ROUTE FLOW FROM CP161 TO CP163
2184        RS       6              -1       0
2185        RC     .08     .04     .04    5280   .0074
2186        RX    1000    1500    1910    2455    2470    2488    2489    2490
2187        RY    1226    1224    1222    1220    1220    1221    1221    1221

2188        KK     162
2189        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 162
2190        BA     .25
2191        LG     .50     .00    3.96     .59     .00
2192        UI     22.     35.     86.    114.    137.    169.    233.    270.    206.    170.
2193        UI    138.    110.     78.     44.     37.     26.     22.      7.      7.      7.
2194        UI      7.      7.      0.      0.      0.      0.      0.      0.      0.      0.
2195        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2196        KK    R162
2197        KM        ROUTE FLOW FROM CP162 TO CP163
2198        RS       8              -1       0
2199        RC     .08     .04     .04    5460   .0062
2200        RX    1000    1500    1910    2455    2470    2488    2489    2490
2201        RY    1226    1224    1222    1220    1220    1221    1221    1221
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1                                        HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2202        KK     163
2203        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 163
2204        BA     .75
2205        LG     .50     .00    3.70     .42     .00
2206        UI     37.     37.     37.    107.    140.    173.    193.    212.    235.    267.
2207        UI    296.    361.    456.    458.    383.    336.    303.    274.    240.    216.
2208        UI    187.    170.    133.    101.     65.     63.     60.     51.     37.     37.
2209        UI     30.     11.     11.     11.     11.     11.     11.     11.     11.     11.
2210        UI     11.      0.      0.      0.      0.      0.      0.      0.      0.      0.
2211        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2212        KK   1I163
2213        KM        ADD HYDROGRAPHS AT CP163
2214        HC       2     1.0

2215        KK   CP163
2216        KM        ADD HYDROGRAPHS AT CP163
2217        HC       2    2.47

2218        KK    D163
2219        KM        DIVERT TO CP176A FROM CP163
2220        DT  DI176A
2221        DI       0      72     427    1229    2615    4708    5777    6545    8336   11092
2222        DQ       0       0       0       0       0       0       9      95     329     762

2223        KK    R163
2224        KM        ROUTE REMAINDER FROM CP163 TO CP164A
2225        RS       2              -1       0
2226        RC     .06    .035    .035    2640   .0078
2227        RX    1000    1410    1900    2110    2150    2168    2169    2170
2228        RY    1188    1186    1184    1182    1182    1183    1183    1183

2229        KK    D144
2230        KM        RETURN DIVERT AT CP144
2231        DR   D164A

2232        KK    R144
2233        KM        ROUTE FLOW FROM CP144 TO  CP164A
2234        RS      46              -1       0
2235        RC     .07     .07     .07    6400   .0058
2236        RX    1000    1001    1002    1400    1910    2610    2669    2670
2237        RY    1203    1203    1203    1202    1202    1204    1205    1205

2238        KK    164A
2239        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 164A
2240        BA     .49
2241        LG     .50     .00    5.59     .31     .00
2242        UI     22.     22.     22.     51.     79.     96.    110.    122.    133.    147.
```

```
2243        UI    164.    182.    220.    273.    282.    238.    209.    189.    174.    154.
2244        UI    138.    124.    111.     98.     78.     60.     39.     39.     36.     35.
2245        UI     22.     22.     22.     11.      7.      7.      7.      7.      7.      7.
2246        UI      7.      7.      7.      7.      0.      0.      0.      0.      0.      0.
2247        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2248        KK  1I164A
2249        KM        ADD HYDROGRAPHS AT CP164A
2250        HC       2    8.17

2251        KK  CP164A
2252        KM         ADD HYDROGRAPHS AT CP164A
2253        HC       2   10.64

2254        KK   R164A
2255        KM         ROUTE FLOW FROM CP164A TO CP164
2256        RS       5              -1       0
2257        RC     .06     .035    .035    2640   .0072
2258        RX    1000    1410    1900    2110    2150    2168    2169    2170
2259        RY    1188    1186    1184    1182    1182    1183    1183    1183

2260        KK     164
2261        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 164
2262        BA     .49
2263        LG     .50     .00    5.59     .31     .00
2264        UI     22.     22.     22.     49.     78.     94.    107.    120.    130.    143.
2265        UI    161.    177.    212.    261.    285.    241.    211.    190.    174.    157.
2266        UI    140.    127.    111.    103.     83.     63.     42.     39.     36.     36.
2267        UI     25.     22.     22.     17.      7.      7.      7.      7.      7.      7.
2268        UI      7.      7.      7.      7.      0.      0.      0.      0.      0.      0.
2269        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2270        KK   1I164
2271        KM        ADD HYDROGRAPHS AT CP164
2272        HC       2   11.13

2273        KK    D145
2274        KM        RETURN DIVERT AT CP145
2275        DR   DI164

2276        KK    R145
2277        KM        ROUTE FLOW FROM CP145 TO CP164
2278        RS       7              -1       0
2279        RC    .035    .035    .075    5280   .0058
2280        RX    1000    1001    1002    1040    1170    1520    1910    2190
2281        RY    1185    1185    1185    1184    1184    1186    1188    1190

2282        KK   CP164
2283        KM        ADD HYDROGRAPHS AT CP164
2284        HC       2   15.08

2285        KK    D164
2286        KM        DIVERT TO CP177 FROM CP164
2287        DT   DI177
2288        DI       0     295    1091    2467    4521    7345   11030
2289        DQ       0      22     124     352     743    1329    2143
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2290        KK    R164
2291        KM        ROUTE REMAINDER FROM CP164 TO CP165
2292        RS       7              -1       0
2293        RC     .04     .04    .075    4900   .0043
2294        RX    1000    1250    1730    2220    2320    2338    2339    2340
2295        RY    1164    1162    1160    1158    1158    1159    1159    1159

2296        KK    D145
2297        KM        RETURN DIVERT AT CP145
2298        DR   DI165

2299        KK    R145
2300        KM        ROUTE FLOW FROM CP145 TO CP165
2301        RS      38              -1       0
2302        RC     .08     .08     .08    7500   .0069
2303        RX    1000    1001    1420    1730    2220    2470    2999    3000
2304        RY    1177    1177    1176    1175    1175    1176    1177    1177

2305        KK     165
2306        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 165
2307        BA     .90
2308        LG     .50     .00    3.72     .43     .00
2309        UI     35.     35.     35.     38.    115.    131.    156.    173.    191.    204.
2310        UI    223.    244.    267.    295.    349.    422.    463.    401.    353.    320.
2311        UI    294.    274.    246.    223.    206.    184.    169.    149.    120.     99.
2312        UI     62.     62.     59.     58.     49.     35.     35.     35.     25.     11.
2313        UI     11.     11.     11.     11.     11.     11.     11.     11.     11.     11.
2314        UI     11.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```

```
2315        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2316        KK   1I165
2317        KM        ADD HYDROGRAPHS AT CP165
2318        HC       2   12.53

2319        KK   2I165
2320        KM        ADD HYDROGRAPHS AT CP165
2321        HC       2   15.98

2322        KK   CP165
2323        KM        ADD HYDROGRAPHS AT CP165
2324        HC       2   22.84

2325        KK    D165
2326        KM        DIVERT TO CP179 FROM CP165
2327        DT   DI179
2328        DI       0    1000    5000
2329        DQ       0    1000    1000

2330        KK    R165
2331        KM        ROUTE FLOW FROM CP165 TO CP180
2332        RS       8              -1       0
2333        RC     .07     .07     .07    7470   .0043
2334        RX    1000    1001    1470    1820    2510    2910    3299    3300
2335        RY    1133    1133    1132    1131    1131    1132    1133    1133
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1                                        HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2336        KK     180
2337        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 180
2338        BA     .99
2339        LG     .50     .00    4.94     .37     .00
2340        UI     35.     35.     35.     35.     84.    120.    138.    163.    176.    191.
2341        UI    203.    220.    238.    261.    280.    321.    391.    430.    449.    390.
2342        UI    350.    319.    296.    277.    255.    231.    214.    196.    178.    166.
2343        UI    146.    120.    101.     66.     62.     60.     57.     57.     41.     35.
2344        UI     35.     35.     26.     11.     11.     11.     11.     11.     11.     11.
2345        UI     11.     11.     11.     11.     11.     11.      0.      0.      0.      0.
2346        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2347        KK   1I180
2348        KM        ADD HYDROGRAPHS AT CP180
2349        HC       2   23.83

2350        KK    D163
2351        KM        RETURN DIVERT AT CP163
2352        DR   DI176A

2353        KK    R163
2354        KM        ROUTE FLOW FROM CP163 TO CP176A
2355        RS       6              -1       0
2356        RC    .035    .035    .075    5280   .0040
2357        RX    1000    1001    1002    1010    1025    1320    1620    1845
2358        RY    1197    1197    1197    1196    1196    1198    1200    1202

2359        KK    176A
2360        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 176A
2361        BA     .62
2362        LG     .50     .00    4.09     .42     .00
2363        UI     24.     24.     24.     24.     79.     89.    106.    118.    131.    139.
2364        UI    151.    166.    182.    200.    236.    283.    318.    279.    245.    221.
2365        UI    203.    189.    171.    155.    142.    129.    117.    105.     87.     69.
2366        UI     46.     43.     41.     40.     37.     24.     24.     24.     21.      7.
2367        UI      7.      7.      7.      7.      7.      7.      7.      7.      7.      7.
2368        UI      7.      0.      0.      0.      0.      0.      0.      0.      0.      0.
2369        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2370        KK   CP176A
2371        KM        ADD HYDROGRAPHS AT CP176A
2372        HC       2    3.09

2373        KK   D176A
2374        KM        DIVERT TO CP191 FROM CP176A
2375        DT   DI191
2376        DI       0      47     164     349     497    1107    2599    4968    8289
2377        DQ       0       0       0       0       0      60     278     719    1444
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1                                        HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2378        KK   R176A
2379        KM        ROUTE REMAINDER FROM CP176A TO CP177A
2380        RS       4              -1       0
2381        RC    .075     .04     .04    2640   .0064
2382        RX    1000    1200    1545    2020    2145    2168    2169    2170
2383        RY    1173    1172    1170    1168    1168    1169    1169    1169

2384        KK    177A
2385        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 177A
```

```
2386        BA     .49
2387        LG     .50      .00     3.99      .43      .00
2388        UI     22.      22.      22.      49.      78.      94.     107.     120.     130.     143.
2389        UI    161.     177.     212.     261.     285.     241.     211.     190.     174.     157.
2390        UI    140.     127.     111.     103.      83.      63.      42.      39.      36.      36.
2391        UI     25.      22.      22.      17.       7.       7.       7.       7.       7.       7.
2392        UI      7.       7.       7.       7.       0.       0.       0.       0.       0.       0.
2393        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

2394        KK  CP177A
2395        KM        ADD HYDROGRAPHS AT CP177A
2396        HC       2    3.58

2397        KK   R177A
2398        KM        ROUTE FLOW FROM CP177A TO CP177
2399        RS       8               -1        0
2400        RC    .075      .04      .04     2640    .0064
2401        RX    1000     1200     1545     2020     2145     2168     2169     2170
2402        RY    1173     1172     1170     1168     1168     1169     1169     1169

2403        KK     177
2404        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 177
2405        BA     .49
2406        LG     .50      .00     3.99      .43      .00
2407        UI     22.      22.      22.      51.      79.      96.     110.     122.     133.     147.
2408        UI    164.     182.     220.     273.     282.     238.     209.     189.     174.     154.
2409        UI    138.     124.     111.      98.      78.      60.      39.      39.      36.      35.
2410        UI     22.      22.      22.      11.       7.       7.       7.       7.       7.       7.
2411        UI      7.       7.       7.       7.       0.       0.       0.       0.       0.       0.
2412        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

2413        KK   1I177
2414        KM        ADD HYDROGRAPHS AT CP177
2415        HC       2    4.07

2416        KK    D164
2417        KM        RETURN DIVERT AT CP164
2418        DR   DI177

2419        KK    R164
2420        KM        ROUTE FLOW FROM CP164 TO CP177
2421        RS      11               -1        0
2422        RC    .035     .035      .07     5280    .0032
2423        RX    1000     1001     1002     1020     1040     1290     1540     1810
2424        RY    1159     1159     1159     1158     1158     1160     1162     1164
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1                                          HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2425        KK   CP177
2426        KM        ADD HYDROGRAPHS AT CP177
2427        HC       2   16.68

2428        KK    R177
2429        KM        ROUTE FLOW FROM CP177 TO CP178
2430        RS       3               -1        0
2431        RC     .07      .04      .04     2250    .0067
2432        RX    1000     1170     1550     2020     2060     2078     2079     2080
2433        RY    1149     1148     1146     1144     1144     1145     1145     1145

2434        KK     178
2435        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 178
2436        BA     .44
2437        LG     .50      .00     3.75      .45      .00
2438        UI     20.      20.      20.      46.      71.      86.      98.     109.     119.     131.
2439        UI    147.     162.     196.     244.     253.     214.     188.     170.     156.     139.
2440        UI    124.     112.     100.      89.      71.      55.      35.      35.      33.      32.
2441        UI     20.      20.      20.      11.       6.       6.       6.       6.       6.       6.
2442        UI      6.       6.       6.       6.       0.       0.       0.       0.       0.       0.
2443        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

2444        KK   CP178
2445        KM        ADD HYDROGRAPHS AT CP178
2446        HC       2   17.12

2447        KK    R178
2448        KM        ROUTE FLOW FROM CP178 TO CP179
2449        RS       5               -1        0
2450        RC    .075      .04      .04     2640    .0034
2451        RX    1000     1040     1560     2110     2320     2348     2349     2350
2452        RY    1137     1136     1134     1132     1132     1133     1133     1133

2453        KK    D165
2454        KM        RETURN DIVERT AT CP165
2455        DR   DI179

2456        KK    R165
2457        KM        ROUTE FLOW FROM CP165 TO CP179
2458        RS       7               -1        0
2459        RC    .022     .022      .04     5280    .0038
2460        RX    1000     1001     1002     1030     1075     1090     1250     2000
2461        RY    1135     1135     1135     1134     1134     1135     1133     1137
```

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2462          KK     179
2463          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 179
2464          BA     .46
2465          LG     .50      .00     6.02      .32      .00
2466          UI     20.      20.      20.      41.      70.      84.      97.     109.     117.     129.
2467          UI    144.     158.     184.     225.     264.     234.     203.     181.     165.     152.
2468          UI    135.     122.     109.      98.      86.      68.      52.      36.      35.      33.
2469          UI     32.      20.      20.      20.      12.       6.       6.       6.       6.       6.
2470          UI      6.       6.       6.       6.       6.       0.       0.       0.       0.       0.
2471          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
1                                                HEC-1 INPUT                                                    PAGE 57

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2472          KK   1I179
2473          KM        ADD HYDROGRAPHS AT CP179
2474          HC       2    23.3

2475          KK   CP179
2476          KM        ADD HYDROGRAPHS AT CP179
2477          HC       2   25.34

2478          KK    D179
2479          KM        DIVERT TO CP193 FROM CP179
2480          KM        DIVERT 50% OF FLOW ALONG REEMS RD.
2481          DT   DI193
2482          DI       0     480    2000    5000
2483          DQ       0     240    1000    1000

2484          KK    D179
2485          KM        DIVERT TO CP180 FROM CP179
2486          DT   DI180
2487          DI       0     240    1000    4000
2488          DQ       0     240     240     240

2489          KK    D179
2490          KM        DIVERT REMAINDER TO CP194 FROM CP179
2491          DT   DI194
2492          DI       0    5000
2493          DQ       0    5000

2494          KK    D179
2495          KM        RETURN DIVERT AT CP179
2496          DR   DI180

2497          KK    R179
2498          KM        ROUTE REMAINDER FROM CP179 TO CP180
2499          RS       4              -1       0
2500          RC     .07     .022    .022    5280   .0025
2501          RX    1000     1320    1700    1820    1840    1868    1869    1870
2502          RY    1124     1122    1120    1118    1118    1119    1119    1119

2503          KK   2I180
2504          KM        ADD HYDROGRAPHS AT CP180
2505          HC       2   26.33

2506          KK   2I180
2507          KM        ADD ARTIFICIALLY AT CP180 (TO REMOVE  0.0 LEFT HYD. AT CP179)
2508          HC       2   26.33

2509          KK    D133
2510          KM        RETURN DIVERT AT CP133
2511          DR   1D147
1                                                HEC-1 INPUT                                                    PAGE 58

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2512          KK    R133
2513          KM        ROUTE FLOW FROM CP133 TO CP147
2514          RS      55              -1       0
2515          RC     .07      .07     .07    6552   .0063
2516          RX    1000     1001    1720    1900    2290    2460    2619    2620
2517          RY    1189     1189    1188  1187.5  1187.5    1188    1189    1189

2518          KK     147
2519          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 147
2520          BA     .50
2521          LG     .50      .00     3.59      .47      .00
2522          UI     23.      23.      23.      57.      84.     102.     116.     128.     140.     156.
2523          UI    175.     197.     249.     289.     278.     237.     210.     190.     174.     153.
2524          UI    138.     123.     110.      94.      70.      50.      41.      39.      38.      27.
2525          UI     23.      23.      18.       7.       7.       7.       7.       7.       7.       7.
2526          UI      7.       7.       7.       0.       0.       0.       0.       0.       0.       0.
2527          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

2528          KK   1I147
2529          KM        ADD HYDROGRAPHS AT CP147
2530          HC       2   14.62

2531          KK    D134
```

```
2532          KM        RETURN DIVERT AT CP134
2533          DR   2D147

2534          KK    R134
2535          KM        ROUTE FLOW FROM CP134 TO CP147
2536          RS       7              -1       0
2537          RC     .05     .05     .15    5280   .0053
2538          RX    1000    1001    1002    1020    1190    1580    2180    2700
2539          RY    1187    1187    1187    1186    1186    1188    1190    1192

2540          KK  CP147
2541          KM        ADD HYDROGRAPHS AT CP147
2542          HC       2   15.92

2543          KK    D147
2544          KM        DIVERT TO CP166 FROM CP147
2545          DT   DI166
2546          DI       0     108    1147    2026    4338    8063   13066
2547          DQ       0     108    1129    1961    3822    6531   10041

2548          KK    R147
2549          KM        ROUTE REMAINDER FROM CP147 TO CP148
2550          RS       4              -1       0
2551          RC    .075     .04     .04    2640   .0038
2552          RX    1000    1420    1800    2230    2340    2368    2369    2370
2553          RY    1164    1162    1160    1158    1158    1159    1159    1159
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2554          KK     148
2555          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 148
2556          BA     .48
2557          LG     .50     .00    3.77     .44     .00
2558          UI     22.     22.     22.     51.     78.     95.    109.    120.    131.    145.
2559          UI    162.    181.    222.    270.    274.    232.    204.    185.    169.    150.
2560          UI    135.    120.    108.     94.     74.     56.     39.     38.     36.     32.
2561          UI     22.     22.     22.      9.      7.      7.      7.      7.      7.      7.
2562          UI      7.      7.      7.      7.      0.      0.      0.      0.      0.      0.
2563          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2564          KK   1I148
2565          KM        ADD HYDROGRAPHS AT CP148
2566          HC       2   16.40

2567          KK    D135
2568          KM        RETURN DIVERT AT CP135
2569          DR   DI148

2570          KK    R135
2571          KM        ROUTE FLOW FROM CP135 TO CP148
2572          RS      10              -1       0
2573          RC    .035    .035    .075    5280   .0049
2574          RX    1000    1001    1002    1070    1130    1400    1780    2250
2575          RY    1171    1171    1171    1170    1170    1172    1174    1176

2576          KK   CP148
2577          KM        ADD HYDROGRAPHS AT CP148
2578          HC       2   17.46

2579          KK    D148
2580          KM        DIVERT TO CP150 FROM CP148
2581          DT   DI150
2582          DI       0       3     104     399     807    1777    2687    5053    8363
2583          DQ       0       1      16      60     106     241     472    1000    1788

2584          KK    R148
2585          KM        ROUTE REMAINDER FROM CP148 TO CP166
2586          RS       6              -1       0
2587          RC     .04     .04    .075    5280   .0030
2588          RX    1000    1001    1002    1045    1330    2030    2380    2700
2589          RY    1153    1153    1153    1152    1152    1154    1156    1157

2590          KK    D147
2591          KM        RETURN DIVERT AT CP147
2592          DR   DI166

2593          KK    R147
2594          KM        ROUTE FLOW FROM CP147 TO CP166
2595          RS      29              -1       0
2596          RC     .08     .08     .08    6240   .0042
2597          RX    1000    1001    1220    1720    2460    2998    2999    3000
2598          RY    1155    1155    1154    1152    1152  1153.5  1153.5  1153.5
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2599          KK    D166
2600          KM        RETURN ARIFICIALLY DIVERTED HYD.
2601          DR   DD166
```

```
2602          KK    R146
2603          KM        ROUTE FLOW FROM CP146 TO CP166
2604          RS       8              -1       0
2605          RC     .07     .07     .07    7470   .0041
2606          RX    1000    1001    1220    1720    2460    2998    2999    3000
2607          RY    1155    1155    1154    1152    1152  1153.5  1153.5  1153.5

2608          KK     166
2609          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 166
2610          BA     .98
2611          LG     .50     .00    3.64     .46     .00
2612          UI     34.     34.     34.     34.     81.    118.    135.    160.    172.    188.
2613          UI    199.    215.    233.    256.    273.    312.    378.    420.    447.    390.
2614          UI    348.    317.    294.    275.    255.    230.    213.    197.    177.    165.
2615          UI    148.    123.     99.     71.     61.     60.     57.     57.     44.     34.
2616          UI     34.     34.     31.     11.     11.     11.     11.     11.     11.     11.
2617          UI     11.     11.     11.     11.     11.     11.     11.      0.      0.      0.
2618          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2619          KK   1I166
2620          KM        ADD HYDROGRAPHS AT CP166
2621          HC       2   19.47

2622          KK   2I166
2623          KM        ADD HYDROGRAPHS AT CP166
2624          HC       2   20.91

2625          KK   CP166
2626          KM        ADD HYDROGRAPHS AT CP166
2627          HC       2   22.45

2628          KK    D166
2629          KM        DIVERT TO CP167 FROM CP166
2630          DT   DI167
2631          DI       0      67     296     813    1921    3730    6346    9869
2632          DQ       0      67     296     765    1709    3184    5250    7966

2633          KK    R166
2634          KM        ROUTE REMAINDER FROM CP166 TO CP180
2635          RS      11              -1       0
2636          RC    .035    .035    .075    5280   .0051
2637          RX    1000    1001    1002    1020    1060    1420    2010    2320
2638          RY    1125    1125    1125    1124    1124    1126    1128    1130

2639          KK   CP180
2640          KM        ADD HYDROGRAPHS AT CP180
2641          HC       2   30.29
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2642          KK    D180
2643          KM        DIVERT TO CP195 FROM CP180
2644          DT   1D195
2645          DI       0       6     234     802    1724    3040    4789
2646          DQ       0       6     206     687    1448    2510    3899

2647          KK    R180
2648          KM        ROUTE REMAINDER FROM CP180 TO CP181
2649          RS       7              -1       0
2650          RC    .075     .04     .04    1350   .0007
2651          RX    1000    1001    1410    2240    2270    2298    2299    2300
2652          RY    1116    1116    1114    1112    1112    1113    1113    1113

2653          KK     181
2654          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 181
2655          BA     .37
2656          LG     .50     .00    3.78     .45     .00
2657          UI     19.     19.     20.     65.     79.     93.    106.    117.    132.    148.
2658          UI    177.    224.    248.    206.    178.    159.    143.    124.    111.     97.
2659          UI     83.     63.     44.     34.     32.     31.     19.     19.     18.      6.
2660          UI      6.      6.      6.      6.      6.      6.      6.      6.      0.      0.
2661          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2662          KK   CP181
2663          KM        ADD HYDROGRAPHS AT CP181
2664          HC       2   30.66

2665          KK    D181
2666          KM        DIVERT TO CP195 FROM CP181
2667          DT   2D195
2668          DI       0     100     200     328     500    1251    3000    6011
2669          DQ       0     100     200     328     500    1026    2250    4208

2670          KK    R181
2671          KM        ROUTE REMAINDER FROM CP181 TO CP182
2672          RS       7              -1       0
2673          RC    .075     .04     .04    2900   .0024
2674          RX    1000    1190    1640    2305    2340    2358    2359    2360
2675          RY    1111    1110    1108    1106    1106    1107    1107    1107

2676          KK     182
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2677          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 182
2678          BA     .24
2679          LG     .50     .00    3.89     .44     .00
2680          UI     15.     15.     32.     56.     71.     83.     93.    108.    127.    167.
2681          UI    190.    154.    131.    116.     99.     85.     73.     60.     40.     26.
2682          UI     25.     22.     15.     15.      7.      5.      5.      5.      5.      5.
2683          UI      5.      5.      0.      0.      0.      0.      0.      0.      0.      0.
2684          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
1                                          HEC-1 INPUT                                                PAGE 62

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2685          KK   1I182
2686          KM        ADD HYDROGRAPHS AT CP182
2687          HC       2    30.9

2688          KK    D148
2689          KM        RETURN DIVERT AT CP148
2690          DR   DI150

2691          KK    R148
2692          KM        ROUTE FLOW FROM CP148 TO CP150
2693          RS       7              -1       0
2694          RC    .075    .035    .035    2640   .0026
2695          RX    1000    1350    1830    2240    2340    2368    2369    2370
2696          RY    1158    1156    1154    1152    1152    1153    1153    1153

2697          KK     150
2698          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 150
2699          BA     .23
2700          LG     .50     .00    3.57     .50     .00
2701          UI     14.     14.     27.     50.     65.     74.     84.     96.    110.    144.
2702          UI    175.    154.    129.    113.     99.     85.     74.     64.     47.     32.
2703          UI     24.     23.     18.     14.     14.      5.      4.      4.      4.      4.
2704          UI      4.      4.      4.      0.      0.      0.      0.      0.      0.      0.
2705          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2706          KK   CP150
2707          KM        ADD HYDROGRAPHS AT CP150
2708          HC       2   17.69

2709          KK    R150
2710          KM        ROUTE FLOW FROM CP150 TO CP151
2711          RS       6              -1       0
2712          RC    .075    .035    .035    2640   .0030
2713          RX    1000    1250    1720    2110    2300    2348    2349    2350
2714          RY    1149    1148    1146    1144    1144    1145    1145    1145

2715          KK     151
2716          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 151
2717          BA     .25
2718          LG     .50     .00    3.79     .46     .00
2719          UI     15.     15.     27.     53.     67.     78.     87.    100.    114.    140.
2720          UI    184.    173.    143.    125.    111.     95.     83.     72.     60.     41.
2721          UI     26.     25.     24.     15.     15.     11.      4.      4.      4.      4.
2722          UI      4.      4.      4.      4.      0.      0.      0.      0.      0.      0.
2723          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2724          KK   1I151
2725          KM        ADD HYDROGRAPHS AT CP151
2726          HC       2   17.94
1                                          HEC-1 INPUT                                                PAGE 63

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2727          KK    D137
2728          KM        RETURN DIVERT AT CP137
2729          DR   DI149

2730          KK    R137
2731          KM        ROUTE FLOW FROM CP137 TO CP149
2732          RS       4              -1       0
2733          RC    .035    .035     .08    2640   .0038
2734          RX    1000    1001    1002    1015    1070    1470    1830    2350
2735          RY    1157    1157    1157    1156    1156    1158    1160    1162

2736          KK     149
2737          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 149
2738          BA     .48
2739          LG     .50     .00    3.81     .49     .00
2740          UI     21.     21.     21.     43.     73.     88.    101.    114.    122.    134.
2741          UI    150.    164.    192.    235.    275.    245.    211.    189.    173.    158.
2742          UI    140.    127.    114.    102.     90.     71.     54.     37.     36.     34.
2743          UI     33.     21.     21.     21.     13.      6.      6.      6.      6.      6.
2744          UI      6.      6.      6.      6.      6.      0.      0.      0.      0.      0.
2745          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2746          KK   CP149
2747          KM        ADD HYDROGRAPHS AT CP149
2748          HC       2   22.20
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```
2749        KK    R149
2750        KM        ROUTE FLOW FROM CP149 TO CP151
2751        RS       5              -1        0
2752        RC    .035     .035     .07     2640    .0038
2753        RX    1000     1001     1002    1030    1200    2050    2315    2350
2754        RY    1143     1143     1143    1142    1142    1144    1146    1147

2755        KK   CP151
2756        KM        ADD HYDROGRAPHS AT CP151
2757        HC       2   23.66

2758        KK    D151
2759        KM        DIVERT TO CP168 FROM CP151
2760        DT   1D168
2761        DI       0       22       73      360     833    1579    2881    4702    7044
2762        DQ       0        0       17      113     270     519     953    1560    2341

2763        KK    D151
2764        KM        DIVERT TO CP152 FROM CP151
2765        DT   DI152
2766        DI       0       22       56      247     563    1060    1928    3142    4703
2767        DQ       0        0       17      113     270     519     953    1560    2341
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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2768        KK    R151
2769        KM        ROUTE REMAINDER FROM CP151 TO CP167
2770        RS      11              -1        0
2771        RC    .035     .035     .07     5280    .0030
2772        RX    1000     1001     1002    1015    1085    1500    1770    2400
2773        RY    1129     1129     1129    1128    1128    1130    1132    1134

2774        KK     167
2775        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 167
2776        BA     .97
2777        LG     .50      .00     3.56     .46     .00
2778        UI     34.      34.      34.     34.     80.    117.    133.    158.    170.    186.
2779        UI    197.     213.     231.    253.    270.    309.    374.    415.    443.    386.
2780        UI    344.     314.     291.    272.    252.    227.    211.    195.    175.    163.
2781        UI    146.     122.      98.     71.     60.     59.     56.     56.     44.     34.
2782        UI     34.      34.      31.     10.     10.     10.     10.     10.     10.     10.
2783        UI     10.      10.      10.     10.     10.     10.     10.      0.      0.      0.
2784        UI      0.       0.       0.      0.      0.      0.      0.      0.      0.      0.

2785        KK   1I167
2786        KM        ADD HYDROGRAPHS AT CP167
2787        HC       2   24.63

2788        KK    D166
2789        KM        RETURN DIVERT AT CP166
2790        DR   DI167

2791        KK    R166
2792        KM        ROUTE FLOW FROM CP166 TO CP167
2793        RS       5              -1        0
2794        RC     .08     .025     .025    5280    .0028
2795        RX    1000     1510     2000    2250    2290    2318    2319    2320
2796        RY    1136     1134     1132    1130    1130    1131    1131    1131

2797        KK   CP167
2798        KM        ADD HYDROGRAPHS AT CP167
2799        HC       2   25.61

2800        KK    D167
2801        KM        DIVERT TO CP183 FROM CP167
2802        DT   1D183
2803        DI       0      274     1281    3337    6703   11624   18322
2804        DQ       0        0      335    1021    2143    3783    6016

2805        KK    D167
2806        KM        DIVERT TO CP168 FROM CP167
2807        DT   2D168
2808        DI       0      274      946    2316    4560    7841   12306
2809        DQ       0        0       64     250     587    1107    1838
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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2810        KK    R167
2811        KM        ROUTE REMAINDER FROM CP167 TO CP181A
2812        RS       4              -1        0
2813        RC    .035     .035     .08     2400    .0046
2814        RX    1000     1001     1002    1020    1080    1740    2169    2170
2815        RY    1119     1119     1119    1118    1118    1120    1119    1119

2816        KK    181A
2817        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 181A
2818        BA     .39
2819        LG     .50      .00     3.77     .45     .00
2820        UI     16.      16.      16.     28.     55.     65.     77.     85.     93.    100.
```

```
2821          UI   111.    123.    136.    162.    199.    212.    181.    159.    144.    133.
2822          UI   121.    108.     98.     89.     80.     71.     57.     45.     29.     29.
2823          UI    27.     27.     19.     16.     16.     16.      5.      5.      5.      5.
2824          UI     5.      5.      5.      5.      5.      5.      5.      5.      0.      0.
2825          UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2826          KK  CP181A
2827          KM        ADD HYDROGRAPHS AT CP181A
2828          HC       2    26.0

2829          KK   D181A
2830          KM        DIVERT TO CP183 FROM CP181A
2831          DT   2D183
2832          DI       0     133     491    1117    1637    2812    4542    6810    9620
2833          DQ       0      12      77     241     451     927    1631    2557    3709

2834          KK   R181A
2835          KM        ROUTE REMAINDER FROM CP181A TO CP182
2836          RS       5              -1       0
2837          RC     .04     .04     .08    2870   .0031
2838          RX    1000    1001    1002    1015    1075    1570    1880    2100
2839          RY    1109    1109    1109    1108    1108    1110    1112    1113

2840          KK   CP182
2841          KM        ADD HYDROGRAPHS AT CP182
2842          HC       2   38.46

2843          KK    D182
2844          KM        DIVERT TO CP196 FROM CP182
2845          DT   DI196
2846          DI       0     173     611    1337    2388    3802
2847          DQ       0      88     310     659    1212    1929

2848          KK    R182
2849          KM        ROUTE REMAINDER FROM CP182 TO CP184
2850          RS      14              -1       0
2851          RC    .075     .04     .04    5280   .0023
2852          RX    1000    1001    1700    2340    2450    2463    2464    2465
2853          RY    1104    1104    1102    1100    1100    1101    1101    1101
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2854          KK    D151
2855          KM        RETURN DIVERT AT CP151
2856          DR   DI152

2857          KK    R151
2858          KM        ROUTE FLOW FROM CP151 TO CP152
2859          RS       6              -1       0
2860          RC     .08    .035    .035    2600   .0027
2861          RX    1000    1090    1710    2160    2240    2268    2269    2270
2862          RY    1141    1140    1138    1136    1136    1137    1137    1137

2863          KK     152
2864          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 152
2865          BA     .35
2866          LG     .50     .00    5.16     .31     .00
2867          UI     17.     17.     17.     54.     69.     83.     94.    103.    114.    129.
2868          UI    147.    187.    221.    206.    175.    155.    140.    124.    110.     97.
2869          UI     86.     74.     56.     39.     31.     29.     29.     18.     17.     17.
2870          UI      7.      5.      5.      5.      5.      5.      5.      5.      5.      5.
2871          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
2872          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2873          KK   CP152
2874          KM        ADD HYDROGRAPHS AT CP152
2875          HC       2   24.01

2876          KK    D152
2877          KM        DIVERT TO CP169 FROM CP152
2878          DT   1D169
2879          DI       0     334     482    1536    3508    6291    9848   14192
2880          DQ       0       0      49     400    1058    1986    3171    4619

2881          KK    D152
2882          KM        DIVERT TO CP155 FROM CP152
2883          DT   DI155
2884          DI       0     334     433    1136    2450    4305    6677    9573
2885          DQ       0       0      49     400    1058    1986    3171    4619

2886          KK    R152
2887          KM        ROUTE REMAINDER FROM CP152 TO CP168
2888          RS      10              -1       0
2889          RC    .035    .035    .075    5280   .0034
2890          RX    1000    1001    1002    1020    1110    1450    1880    2100
2891          RY    1123    1123    1123    1122    1122    1124    1126    1127

2892          KK    D151
2893          KM        RETURN DIVERT AT CP151
2894          DR   1D168
```

```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2895          KK    R151
2896          KM        ROUTE FLOW FROM CP151 TO CP168
2897          RS      56              -1        0
2898          RC    .075    .075    .075    5928   .0042
2899          RX    1000    1001    1002    1180    2100    2458    2459    2460
2900          RY    1135    1135    1135    1134    1134    1135    1135    1135

2901          KK     168
2902          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 168
2903          BA     .51
2904          LG     .50     .00    4.01     .38     .00
2905          UI     21.     21.     21.     37.     73.     86.    101.    111.    122.    132.
2906          UI    145.    162.    179.    213.    262.    277.    236.    208.    188.    173.
2907          UI    158.    141.    128.    116.    104.     92.     73.     58.     38.     38.
2908          UI     35.     35.     24.     21.     21.     20.      7.      7.      7.      7.
2909          UI      7.      7.      7.      7.      7.      7.      7.      0.      0.      0.
2910          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2911          KK   1I168
2912          KM        ADD HYDROGRAPHS AT CP168
2913          HC       2   24.17

2914          KK    D167
2915          KM        RETURN DIVERT AT CP167
2916          DR   2D168

2917          KK    R167
2918          KM        ROUTE FLOW FROM CP167 TO CP168
2919          RS      10              -1        0
2920          RC    .075     .04     .04    2600   .0035
2921          RX    1000    1060    1460    2050    2315    2328    2329    2330
2922          RY    1125    1124    1122    1120    1120    1121    1121    1121

2923          KK   2I168
2924          KM        ADD HYDROGRAPHS AT CP168
2925          HC       2   26.12

2926          KK   CP168
2927          KM        ADD HYDROGRAPHS AT CP168
2928          HC       2   26.47

2929          KK    D168
2930          KM        DIVERT TO CP169 FROM CP168
2931          DT   2D169
2932          DI       0       4     282    1072    2510    4582    7322   10770
2933          DQ       0       0      59     334     981    1974    3330    5068

2934          KK    R168
2935          KM        ROUTE REMAINDER FROM CP168 TO CP183
2936          RS       5              -1        0
2937          RC     .04     .04    .075    2400   .0029
2938          RX    1000    1001    1002    1010    1030    1480    2259    2260
2939          RY    1113    1113    1113    1112    1112    1114    1116    1116
```



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1                                          HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

2940          KK    D167
2941          KM        RETURN DIVERT AT CP167
2942          DR   1D183

2943          KK    R167
2944          KM        ROUTE FLOW FROM CP167 TO CP183
2945          RS      19              -1        0
2946          RC    .075    .075    .075    2250   .0071
2947          RX    1000    1001    1002    1210    2310    2558    2559    2560
2948          RY    1115    1115    1115    1114    1114    1115    1115    1115

2949          KK     183
2950          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 183
2951          BA     .21
2952          LG     .50     .00    3.98     .42     .00
2953          UI     20.     38.     84.    109.    134.    172.    247.    206.    164.    131.
2954          UI    104.     74.     40.     33.     22.     16.      6.      6.      6.      6.
2955          UI      6.      0.      0.      0.      0.      0.      0.      0.      0.      0.
2956          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

2957          KK   1I183
2958          KM        ADD HYDROGRAPHS AT CP183
2959          HC       2   25.82

2960          KK   D181A
2961          KM        RETURN DIVERT AT CP181A
2962          DR   2D183

2963          KK   R181A
2964          KM        ROUTE FLOW FROM CP181A TO CP183
2965          RS       3              -1        0
```

```
2966          RC     .08      .04      .04     1250    .0040
2967          RX    1000     1001     1420     1850     1870     1888     1889     1890
2968          RY    1114     1114     1112     1110     1110     1111     1111     1111

2969          KK   2I183
2970          KM        ADD HYDROGRAPHS AT CP183
2971          HC       2   26.21

2972          KK   CP183
2973          KM        ADD HYDROGRAPHS AT CP183
2974          HC       2   27.07

2975          KK    R183
2976          KM        ROUTE FLOW FROM CP183 TO CP184
2977          RS      28               -1        0
2978          RC     .08      .08      .08     4520    .0035
2979          RX    1000     1001     1215     1910     2630     3250     3499     3500
2980          RY    1101     1101     1100     1098     1098     1100     1101     1101
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


2981          KK     184
2982          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 184
2983          BA     .79
2984          LG     .50      .00     3.50      .36      .00
2985          UI     33.      33.      33.      53.     110.     130.     154.     170.     186.     200.
2986          UI    221.     245.     268.     321.     389.     431.     371.     326.     293.     269.
2987          UI    248.     221.     201.     182.     164.     148.     121.      94.      63.      58.
2988          UI     55.      54.      43.      33.      33.      33.      15.      10.      10.      10.
2989          UI     10.      10.      10.      10.      10.      10.      10.      10.       0.       0.
2990          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

2991          KK   1I184
2992          KM        ADD HYDROGRAPHS AT CP184
2993          HC       2   27.86

2994          KK   2I184
2995          KM        ADD HYDROGRAPHS AT CP184
2996          HC       2   40.32

2997          KK    D152
2998          KM        RETURN DIVERT AT CP152
2999          DR   DI155

3000          KK    R152
3001          KM        ROUTE FLOW FROM CP152 TO CP155
3002          RS      14               -1        0
3003          RC    .075      .04      .04     2640    .0019
3004          RX    1000     1040     1580     2090     2360     2363     2364     2365
3005          RY  1135.2     1134     1132     1130     1130     1131     1131     1131

3006          KK     155
3007          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 155
3008          BA     .26
3009          LG     .50      .00     6.71      .25      .00
3010          UI     15.      15.      29.      56.      72.      83.      93.     107.     122.     156.
3011          UI    195.     177.     147.     129.     113.      98.      85.      73.      57.      39.
3012          UI     27.      26.      23.      15.      15.       8.       5.       5.       5.       5.
3013          UI      5.       5.       5.       0.       0.       0.       0.       0.       0.       0.
3014          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3015          KK   CP155
3016          KM        ADD HYDROGRAPHS AT CP155
3017          HC       2   24.27

3018          KK    R155
3019          KM        ROUTE FLOW FROM CP155 TO CP169
3020          RS      17               -1        0
3021          RC     .04      .04      .07     5280    .0036
3022          RX    1000     1001     1002     1020     1690     2220     2269     2270
3023          RY    1117     1117     1117     1116     1116     1118     1119     1119
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3024          KK    D152
3025          KM        RETURN DIVERT AT CP152
3026          DR   1D169

3027          KK    R152
3028          KM        ROUTE FLOW FROM CP152 TO CP169
3029          RS       7               -1        0
3030          RC     .08      .08      .08     5928    .0040
3031          RX    1000     1001     1002     1190     2510     2898     2899     2900
3032          RY    1121     1121     1121     1120     1120     1121     1121     1121

3033          KK     169
3034          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 169
3035          BA     .51
3036          LG     .50      .00     6.30      .27      .00
```

```
3037        UI     21.     21.     21.     35.     72.     84.    100.    110.    120.    130.
3038        UI    143.    159.    174.    209.    253.    278.    239.    210.    189.    174.
3039        UI    160.    142.    130.    117.    106.     95.     77.     61.     39.     38.
3040        UI     35.     35.     27.     21.     21.     21.      9.      7.      7.      7.
3041        UI      7.      7.      7.      7.      7.      7.      7.      7.      0.      0.
3042        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3043        KK   1I169
3044        KM        ADD HYDROGRAPHS AT CP169
3045        HC       2   24.52

3046        KK   2I169
3047        KM        ADD HYDROGRAPHS AT CP169
3048        HC       2   25.13

3049        KK    D168
3050        KM        RETURN DIVERT AT CP168
3051        DR   2D169

3052        KK    R168
3053        KM        ROUTE FLOW FROM CP168 TO CP169
3054        RS       9              -1       0
3055        RC     .08     .035    .035    2640   .0023
3056        RX    1000     1001    1440    1890    2100    2148    2149    2150
3057        RY    1116     1116    1114    1112    1112    1113    1113    1113

3058        KK   CP169
3059        KM        ADD HYDROGRAPHS AT CP169
3060        HC       2   27.24

3061        KK    R169
3062        KM        ROUTE FLOW FROM CP169 TO CP184
3063        RS      10              -1       0
3064        RC     .08     .04     .04    5280   .0032
3065        RX    1000     1001    1002    1020    1100    1670    2099    2100
3066        RY    1111     1111    1111    1110    1110    1112    1113    1113
```



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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3067        KK   CP184
3068        KM        ADD HYDROGRAPHS AT CP184
3069        HC       2   41.09

3070        KK    D184
3071        KM        DIVERT TO CP197 FROM CP184
3072        DT   DI197
3073        DI       0     350    1274    2834    4789    7664
3074        DQ       0     140     509    1134    1916    3066

3075        KK    D184
3076        KM        DIVERT TO CP198 FROM CP184
3077        DT   DI198
3078        DI       0     210     765    1700    2873    4598
3079        DQ       0     140     509    1134    1911    3066

3080        KK    R184
3081        KM        ROUTE REMAINDER FROM CP184 TO CP185
3082        RS       8              -1       0
3083        RC    .075     .04     .04    1400   .0007
3084        RX    1000     1001    1170    1970    2260    2308    2309    2310
3085        RY    1095     1095    1094    1092    1092    1093    1093    1093

3086        KK     170
3087        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 170
3088        BA     .29
3089        LG     .41     .04    7.38     .19    5.00
3090        UI     19.     19.     48.     77.     95.    110.    126.    148.    189.    242.
3091        UI    212.    175.    153.    130.    112.     94.     76.     49.     34.     32.
3092        UI     25.     19.     17.      6.      6.      6.      6.      6.      6.      6.
3093        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3094        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3095        KK    R170
3096        KM        ROUTE FLOW FROM CP170 TO CP185
3097        RS      16              -1       0
3098        RC    .035    .035    .035    5280   .0032
3099        RX    1000     1001    1002    2100    2280    2338    2339    2340
3100        RY    1101     1101    1101    1100    1100    1101    1101    1101

3101        KK     185
3102        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 185
3103        BA     .69
3104        LG     .50     .00    4.10     .42     .00
3105        UI     30.     30.     30.     62.    105.    126.    145.    163.    176.    193.
3106        UI    216.    236.    277.    338.    395.    352.    304.    272.    248.    227.
3107        UI    202.    183.    164.    147.    129.    101.     78.     53.     52.     50.
3108        UI     48.     30.     30.     30.     19.      9.      9.      9.      9.      9.
3109        UI      9.      9.      9.      9.      9.      0.      0.      0.      0.      0.
3110        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3111          KK   1I185
3112          KM        ADD HYDROGRAPHS AT CP185
3113          HC       2     .98

3114          KK   CP185
3115          KM        ADD HYDROGRAPHS AT CP185
3116          HC       2   42.07

3117          KK    R185
3118          KM        ROUTE FLOW FROM CP185 TO CP198
3119          RS       9              -1       0
3120          RC    .075    .075    .075    5450   .0022
3121          RX    1000    1001    1090    1410    1950    2190    2219    2220
3122          RY    1086    1086    1084    1083    1083    1084    1085    1085

3123          KK    D184
3124          KM        RETURN DIVERT AT CP184
3125          DR   DI198

3126          KK    R184
3127          KM        ROUTE FLOW FROM CP184 TO CP198
3128          RS      55              -1       0
3129          RC    .075    .075    .075    6630   .0020
3130          RX    1000    1001    1025    1220    1990    2010    2099    2100
3131          RY    1085    1085    1084    1083    1083    1084    1085    1085

3132          KK     198
3133          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 198
3134          BA     .91
3135          LG     .50     .00    4.97     .38     .00
3136          UI     30.     30.     30.     30.     53.     99.    114.    131.    145.    157.
3137          UI    168.    180.    192.    208.    227.    242.    276.    331.    365.    397.
3138          UI    348.    312.    285.    263.    246.    232.    211.    195.    180.    167.
3139          UI    152.    142.    125.    105.     87.     62.     53.     53.     50.     50.
3140          UI     45.     30.     30.     30.     30.     18.      9.      9.      9.      9.
3141          UI      9.      9.      9.      9.      9.      9.      9.      9.      9.      9.
3142          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3143          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3144          KK   1I198
3145          KM        ADD HYDROGRAPHS AT CP198
3146          HC       2    42.0

3147          KK   2I198
3148          KM        ADD HYDROGRAPHS AT CP198
3149          HC       2   42.98

3150          KK    D184
3151          KM        RETURN DIVERT AT CP184
3152          DR   DI197
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3153          KK    R184
3154          KM        ROUTE FLOW FROM CP184 TO CP197
3155          RS      18              -1       0
3156          RC     .04     .04     .08    5280   .0025
3157          RX    1000    1001    1002    1015    1870    2300    2699    2700
3158          RY    1087    1087    1087    1086    1086    1088    1089    1089

3159          KK     197
3160          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 197
3161          BA    1.00
3162          LG     .50     .00    3.58     .41     .00
3163          UI     32.     32.     32.     32.     46.    106.    119.    135.    152.    164.
3164          UI    177.    187.    200.    216.    235.    250.    276.    318.    371.    423.
3165          UI    402.    355.    321.    296.    276.    259.    242.    222.    204.    191.
3166          UI    175.    161.    151.    133.    112.     93.     68.     57.     57.     53.
3167          UI     53.     52.     32.     32.     32.     32.     27.     10.     10.     10.
3168          UI     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.
3169          UI     10.     10.      0.      0.      0.      0.      0.      0.      0.      0.
3170          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3171          KK   CP197
3172          KM        ADD HYDROGRAPHS AT CP197
3173          HC       2   42.09

3174          KK    R197
3175          KM        ROUTE FLOW FROM CP197 TO CP203
3176          RS       8              -1       0
3177          RC    .035    .035    .015    2650   .0004
3178          RX    1000    1001    1002    1030    1200    1350    1809    1810
3179          RY    1078    1078    1078  1077.5  1077.5    1078    1080    1080

3180          KK     203
3181          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 203
3182          BA     .11
3183          LG     .35     .38    5.29     .21     .00
```

```
3184          UI     16.     60.     92.    131.    189.    135.     96.     62.     29.     19.
3185          UI      9.      5.      5.      0.      0.      0.      0.      0.      0.      0.
3186          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3187          KK   CP203
3188          KM        ADD HYDROGRAPHS AT CP203
3189          HC       2    42.2

3190          KK   CP198
3191          KM        ADD HYDROGRAPHS AT CP198
3192          HC       2   44.09

3193          KK    R198
3194          KM        ROUTE FLOW FROM CP198 TO CP204
3195          RS       2              -1       0
3196          RC     .03    .025     .03    3120   .0029
3197          RX    1000    1050    1070    1090    1190    1220    1230    1270
3198          RY    1083    1082    1078    1076    1076    1078    1080    1083
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3199          KK     204
3200          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 204
3201          BA     .27
3202          LG     .35     .37    3.85     .34     .00
3203          UI     42.    172.    257.    396.    462.    312.    214.    105.     61.     33.
3204          UI     13.     13.      0.      0.      0.      0.      0.      0.      0.      0.
3205          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3206          KK   1I204
3207          KM        ADD HYDROGRAPHS AT CP204
3208          HC       2   44.36

3209          KK     174
3210          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 174
3211          BA     .45
3212          LG     .35     .33    3.90     .33     .00
3213          UI     62.    218.    346.    474.    735.    574.    418.    294.    145.     94.
3214          UI     57.     19.     19.     19.      0.      0.      0.      0.      0.      0.
3215          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3216          KK    R174
3217          KM        ROUTE FLOW FROM CP174 TO CP176
3218          RS       7              -1       0
3219          RC    .025    .025    .025    7020   .0073
3220          RX    1000    1040    1100    1200    1600    1620    1630    1750
3221          RY    1223    1222    1220    1218    1218    1220    1222    1224

3222          KK     175
3223          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 175
3224          BA     .28
3225          LG     .35     .33    3.87     .33     .00
3226          UI     38.    128.    207.    279.    440.    364.    267.    192.    103.     63.
3227          UI     38.     15.     12.     12.      0.      0.      0.      0.      0.      0.
3228          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3229          KK    D175
3230          KM        DIVERT TO CP175A FROM CP175
3231          DT  DI175A
3232          DI       0      53     200     459     854    1367    2544    4308    6658    9613
3233          DQ       0      53     200     459     854    1047    1478    2105    2915    3906

3234          KK    R175
3235          KM        ROUTE REMAINDER FROM CP175 TO CP176
3236          RS       5              -1       0
3237          RC    .025    .022    .022    6500   .0074
3238          RX    1000    1100    1300    1420    1470    1558    1559    1560
3239          RY    1226    1224    1222    1220    1220    1222    1222    1222

3240          KK     176
3241          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 176
3242          BA     .67
3243          LG     .35     .34    4.03     .35     .00
3244          UI     66.    128.    279.    362.    449.    588.    817.    642.    515.    407.
3245          UI    319.    208.    115.     99.     66.     37.     20.     20.     20.     20.
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3246          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3247          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3248          KK   1I176
3249          KM        ADD HYDROGRAPHS AT CP176
3250          HC       2     .95

3251          KK   CP176
3252          KM        ADD HYDROGRAPHS AT CP176
3253          HC       2    1.40

3254          KK    R176
```

```
3255          KM        ROUTE FLOW FROM CP176 TO CP191
3256          RS       5              -1        0
3257          RC    .035    .035    .075    5540   .0067
3258          RX    1000    1001    1002    1025    1100    1400    1720    2050
3259          RY    1163    1163    1163    1162    1162    1164    1166    1168

3260          KK    D175
3261          KM        RETURN DIVERT AT CP175
3262          DR  DI175A

3263          KK    R175
3264          KM        ROUTE FLOW FROM CP175 TO CP175A
3265          RS       2              -1        0
3266          RC    .022    .022    .025    1560   .0013
3267          RX    1000    1001    1002    1020    1055    1150    1190    1390
3268          RY    1136    1136    1136    1134    1134    1136    1138    1140

3269          KK    175A
3270          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 175A
3271          BA     .47
3272          LG     .35     .33    3.80     .65     .00
3273          UI     42.     66.    162.    215.    258.    317.    439.    507.    388.    320.
3274          UI    258.    207.    147.     82.     69.     48.     41.     13.     13.     13.
3275          UI     13.     13.      0.      0.      0.      0.      0.      0.      0.      0.
3276          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3277          KK  CP175A
3278          KM        ADD HYDROGRAPHS AT CP175A
3279          HC       2     .75

3280          KK   R175A
3281          KM        ROUTE FLOW FROM CP175A TO CP189
3282          RS      11              -1        0
3283          RC    .022    .022    .025    3300   .0009
3284          RX    1000    1001    1002    1020    1035    1170    1460    1720
3285          RY    1233    1233    1233    1232    1232    1234    1236    1238

3286          KK     CP3
3287          KM        RETURN DIVERTED HYDROGRAPH FROM WT#3 HEC-1 MODEL
3288          DR    DCP3
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3289          KK    RCP3
3290          KM        ROUTE FLOW AT CP3 TO CP189
3291          RS       5              -1        0
3292          RC     .05    .035     .05    4500   .0038
3293          RX    1000    1040    1175    1250    1275    1350    1430    1750
3294          RY    1261    1260  1260.5    1258    1258  1260.5    1258    1261

3295          KK   1I189
3296          KM        ADD HYDROGRAPHS AT CP189
3297          HC       2    5.61

3298          KK     189
3299          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 189
3300          BA     .51
3301          LG     .35     .35    4.17     .40     .00
3302          UI     52.    110.    229.    298.    372.    516.    631.    471.    376.    293.
3303          UI    219.    118.     88.     59.     43.     16.     16.     16.     16.      0.
3304          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3305          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3306          KK   CP189
3307          KM        ADD HYDROGRAPHS AT CP189
3308          HC       2    1.26

3309          KK    R189
3310          KM        ROUTE FLOW FROM CP189 TO CP190
3311          RS       8              -1        0
3312          RC     .08    .035    .035    6900   .0057
3313          RX    1000    1270    1700    2040    2090    2118    2119    2120
3314          RY    1212    1210    1208    1206    1206    1207    1207    1207

3315          KK     190
3316          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 190
3317          BA     .86
3318          LG     .50     .00    4.18     .42     .00
3319          UI     44.     44.     44.    141.    176.    209.    238.    261.    292.    331.
3320          UI    381.    482.    570.    492.    422.    374.    339.    297.    264.    232.
3321          UI    207.    167.    124.     77.     76.     72.     59.     44.     44.     31.
3322          UI     13.     13.     13.     13.     13.     13.     13.     13.     13.      0.
3323          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3324          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3325          KK   CP190
3326          KM        ADD HYDROGRAPHS AT CP190
3327          HC       2    2.12

3328          KK    R190
3329          KM        ROUTE FLOW FROM CP190 TO CP191
```

```
3330          RS       5                -1
3331          RC    .075     .035     .035     5280    .0076
3332          RX    1000     1260     2080     2310     2330     2358     2359     2360
3333          RY    1182     1180     1178     1176     1176     1177     1177     1177
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3334          KK   D176A
3335          KM        RETURN DIVERT AT CP176A
3336          DR   DI191

3337          KK   R176A
3338          KM        ROUTE FLOW FROM CP176A TO CP191
3339          RS       4                -1        0
3340          RC    .035     .035      .08     5280    .0062
3341          RX    1000     1001     1002     1025     1100     1400     1720     2050
3342          RY    1163     1163     1163     1162     1162     1164     1166     1168

3343          KK   1I191
3344          KM        ADD HYDROGRAPHS AT CP191
3345          HC       3     6.33

3346          KK     191
3347          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 191
3348          BA     .99
3349          LG     .50      .00     3.59      .41      .00
3350          UI     39.      39.      39.      40.     127.     144.     170.     189.     210.     223.
3351          UI    243.     267.     293.     322.     381.     459.     509.     443.     389.     353.
3352          UI    324.     301.     272.     247.     227.     204.     186.     166.     135.     111.
3353          UI     70.      68.      65.      63.      56.      39.      39.      39.      30.      12.
3354          UI     12.      12.      12.      12.      12.      12.      12.      12.      12.      12.
3355          UI     12.       0.       0.       0.       0.       0.       0.       0.       0.       0.
3356          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3357          KK   CP191
3358          KM        ADD HYDROGRAPHS AT CP191
3359          HC       2     7.32

3360          KK   CP191
3361          KM        DIVERT TO CP208 FROM CP191
3362          DT   DI208
3363          DI       0       80      468     1339     2000     3000     4000     5000     6000
3364          DQ       0       80      468     1339     1339     1339     1339     1339     1339

3365          KK    R191
3366          KM        ROUTE REMAINDER FROM CP191 TO CP192A
3367          RS       5                -1        0
3368          RC     .08      .04      .04     2640    .0045
3369          RX    1000     1350     1800     2200     2225     2278     2279     2280
3370          RY    1148     1146     1144     1142     1142     1143     1143     1143

3371          KK    192A
3372          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 192A
3373          BA     .50
3374          LG     .50      .00     4.18      .41      .00
3375          UI     22.      22.      22.      50.      79.      96.     110.     122.     133.     146.
3376          UI    164.     180.     217.     267.     291.     246.     215.     194.     178.     160.
3377          UI    142.     129.     114.     105.      85.      64.      43.      40.      37.      37.
3378          UI     25.      22.      22.      17.       7.       7.       7.       7.       7.       7.
3379          UI      7.       7.       7.       7.       0.       0.       0.       0.       0.       0.
3380          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3381          KK  CP192A
3382          KM        ADD HYDROGRAPHS AT CP192A
3383          HC       2     7.82

3384          KK   R192A
3385          KM        ROUTE REMAINDER FROM CP192A TO CP192
3386          RS       9                -1        0
3387          RC     .08      .04      .04     2640    .0045
3388          RX    1000     1350     1800     2200     2225     2278     2279     2280
3389          RY    1148     1146     1144     1142     1142     1143     1143     1143

3390          KK     192
3391          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 192
3392          BA     .50
3393          LG     .50      .00     4.18      .41      .00
3394          UI     22.      22.      22.      51.      80.      96.     110.     123.     134.     147.
3395          UI    165.     182.     219.     270.     290.     245.     215.     193.     178.     159.
3396          UI    142.     129.     114.     104.      83.      64.      41.      40.      37.      37.
3397          UI     24.      22.      22.      16.       7.       7.       7.       7.       7.       7.
3398          UI      7.       7.       7.       7.       0.       0.       0.       0.       0.       0.
3399          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3400          KK   CP192
3401          KM        ADD HYDROGRAPHS AT CP192
3402          HC       2     8.32
```

```
3403        KK    D192
3404        KM        DIVERT TO CP209 FROM CP192
3405        DT   DI209
3406        DI       0     126     480     965    3703    6169    9453
3407        DQ       0     126     419     853    3404    5491    8154

3408        KK    D192
3409        KM        DIVERT TO CP210 FROM CP192
3410        DT   DI210
3411        DI       0      61     112     299     678    1299    2208
3412        DQ       0       0       0       0       0     433     736

3413        KK    R192
3414        KM        ROUTE REMAINDER FROM CP192 TO CP193
3415        RS       5              -1       0
3416        RC     .08    .025    .022    4950   .0044
3417        RX    1000    1380    1800    2160    2195    2230    2275    2310
3418        RY    1124    1122    1120    1118    1118    1119    1116    1119

3419        KK     193
3420        KM        RUNOFF FROM SUBBASIN 193
3421        BA     .91
3422        LG     .50     .00    3.76     .46     .00
3423        UI     36.     36.     36.     38.    117.    133.    158.    175.    193.    206.
3424        UI    225.    247.    270.    299.    353.    426.    468.    405.    357.    324.
3425        UI    297.    277.    249.    226.    209.    186.    170.    151.    122.    100.
3426        UI     63.     63.     59.     58.     50.     36.     36.     36.     25.     11.
3427        UI     11.     11.     11.     11.     11.     11.     11.     11.     11.     11.
```



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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3428        UI     11.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3429        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3430        KK   1I193
3431        KM        ADD HYDROGRAPHS AT CP193
3432        HC       2   14.09

3433        KK    D179
3434        KM        RETURN DIVERT AT CP179
3435        DR   DI193

3436        KK    R179
3437        KM        ROUTE FLOW FROM CP179 TO CP193
3438        RS       7              -1       0
3439        RC    .022    .022     .06    5280   .0040
3440        RX    1000    1001    1002    1010    1050    1070    1150    1970
3441        RY    1113    1113    1113    1112    1112    1113    1112    1118

3442        KK   2I193
3443        KM        ADD HYDROGRAPHS AT CP193
3444        HC       2   36.34

3445        KK    D179
3446        KM        RETURN DIVERT AT CP179
3447        DR   DI194

3448        KK    R179
3449        KM        ROUTE FLOW FROM CP179 TO CP194 (AT DET. BASIN , ADD AT CP193)
3450        RS       4              -1       0
3451        RC    .075    .075    .075    3750   .0039
3452        RX    1000    1001    1002    1360    2780    2998    2999    3000
3453        RY    1109    1109    1109    1108    1108    1109    1109    1109

3454        KK   CP193
3455        KM        ADD HYDROGRAPHS AT CP193
3456        HC       2   36.34

3457        KK   SR193
3458        KM        STORAGE ROUTE THROUGH 74-ACRE DETENTION BASIN 1 AT CP193
3459        KM        1-6'X7' BOX CULVERT-INLET ELEVATION = 1089.85
3460        KM        CONVEY FLOWS SOUTH AROUND WEST EDGE OF LUKE AFB
3461        RS       1    STOR       0       0
3462        SV       0       0   15.56   48.03   104.2   207.3   566.8
3463        SQ       0      46     108     160     210     299     562
3464        SE  1089.9  1092.0  1093.5  1094.5  1095.5    1097    1102

3465        KK    D193
3466        KM        DIVERT TO CP212 FROM CP193
3467        DT   DI212
3468        DI       0     500     520     580    1000    1500    2000    2500    3000    5000
3469        DQ       0       0       0       0       0       0       0       0       0       0
```



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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3470        KK    R193
3471        KM        ROUTE DETENTION BASIN FLOWS FROM CP193 TO CP194
3472        RS       7              -1       0
3473        RC    .016    .016    .016    2640   .0015
```

```
3474          RX    2000    2007    2013    2020    2030    2037    2043    2050
3475          RY  1099.5  1096.2  1092.8  1089.5  1089.5  1092.8  1096.2  1099.5

3476          KK     194
3477          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 194
3478          BA     .99
3479          LG     .50     .00    3.75     .46     .00
3480          UI     34.     34.     34.     34.     73.    115.    131.    156.    168.    184.
3481          UI    196.    208.    227.    247.    265.    295.    343.    407.    453.    406.
3482          UI    359.    326.    300.    280.    263.    239.    220.    203.    186.    170.
3483          UI    159.    136.    110.     95.     60.     60.     58.     56.     56.     39.
3484          UI     34.     34.     34.     27.     10.     10.     10.     10.     10.     10.
3485          UI     10.     10.     10.     10.     10.     10.     10.     10.      0.      0.
3486          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3487          KK   CP194
3488          KM        ADD HYDROGRAPHS AT CP194
3489          HC       2   37.33

3490          KK    R194
3491          KM        ROUTE FLOW FROM CP194 TO CP195
3492          RS       2              -1       0
3493          RC    .016    .016    .016    3750   .0016
3494          RX    2000    2007    2013    2020    2030    2037    2043    2050
3495          RY  1094.5  1091.2  1087.8  1084.5  1084.5  1087.8  1091.2  1094.5

3496          KK    D180
3497          KM        RETURN DIVERT AT CP180
3498          DR   1D195

3499          KK    R180
3500          KM        ROUTE FLOW FROM CP180 TO CP195
3501          RS      40              -1       0
3502          RC     .08     .08     .08    7050   .0031
3503          RX    1000    1001    1002    1350    2300    2448    2449    2450
3504          RY    1101    1101    1100    1099    1099    1100    1101    1101

3505          KK     195
3506          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 195
3507          BA     .49
3508          LG     .50     .00    3.51     .44     .00
3509          UI     16.     16.     16.     16.     27.     53.     61.     70.     77.     84.
3510          UI     90.     95.    102.    110.    121.    128.    145.    172.    193.    215.
3511          UI    190.    169.    154.    143.    133.    126.    115.    106.     98.     91.
3512          UI     83.     77.     70.     60.     46.     38.     29.     29.     27.     26.
3513          UI     26.     17.     16.     16.     16.     13.      5.      5.      5.      5.
3514          UI      5.      5.      5.      5.      5.      5.      5.      5.      5.      5.
3515          UI      5.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3516          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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1                                        HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3517          KK   1I195
3518          KM        ADD HYDROGRAPHS AT CP195
3519          HC       2   35.64

3520          KK    D181
3521          KM        RETURN DIVERT AT CP181
3522          DR   2D195

3523          KK    R181
3524          KM        ROUTE FLOW FROM CP181 TO CP195
3525          RS       4              -1       0
3526          RC    .022    .022     .07    6400   .0033
3527          RX    1000    1001    1002    1040    1055    1080    1899    1900
3528          RY    1103    1103    1103    1098    1098    1102    1103    1103

3529          KK   CP195
3530          KM        ADD HYDROGRAPHS AT CP195
3531          HC       3   43.14

3532          KK    D195
3533          KM        DIVERT FLOW FROM CP195 TO CP201
3534          DT   1D201
3535          DI       0     410     430     500    1000    1500    2000    2500    3000    5000
3536          DQ       0       0       0       0       0       0       0       0       0       0

3537          KK    R195
3538          KM        ROUTE REMAINDER FROM CP195 TO CP196
3539          RS       1              -1       0
3540          RC    .016    .016    .016    2800    .005
3541          RX    1000    1006    1013    1020    1030    1037    1043    1050
3542          RY    1085    1082    1078    1074    1074    1078    1082    1085

3543          KK    D182
3544          KM        RETURN DIVERT AT CP182
3545          DR   DI196

3546          KK    R182
3547          KM        ROUTE FLOW FROM CP182 TO CP196
3548          RS      13              -1       0
```

```
3549          RC    .025    .025     .04    5280   .0034
3550          RX    1000    1001    1002    1030    1060    1115    1220    1750
3551          RY    1097    1097    1097    1096    1096  1096.5  1095.5    1097

3552          KK     196
3553          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 196
3554          BA     .47
3555          LG     .46     .03    3.74     .45    2.00
3556          UI     21.     21.     21.     50.     76.     92.    106.    117.    128.    142.
3557          UI    159.    176.    215.    264.    269.    227.    200.    181.    166.    147.
3558          UI    132.    118.    106.     93.     73.     56.     38.     37.     35.     32.
3559          UI     21.     21.     21.      9.      7.      7.      7.      7.      7.      7.
3560          UI      7.      7.      7.      7.      0.      0.      0.      0.      0.      0.
3561          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
                                          HEC-1 INPUT                                          PAGE 82
1
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3562          KK   1I196
3563          KM        ADD HYDROGRAPHS AT CP196
3564          HC       2   38.93

3565          KK   CP196
3566          KM        ADD HYDROGRAPHS AT CP196
3567          HC       2   51.75

3568          KK    D196
3569          KM        DIVERT FLOW FROM CP196 TO CP226
3570          DT   1D226
3571          DI       0     100     250     300     500    1000    1500    2000   10000
3572          DQ       0       0       0       0       0       0       0       0       0

3573          KK    R196
3574          KM        ROUTE REMAINDER FROM CP196 TO CP202
3575          RS       2              -1       0
3576          RC    .016    .016    .016    5460   .0005
3577          RX     994    1002    1011    1020    1030    1039    1048    1056
3578          RY    1078    1074    1069    1065    1065    1069    1074    1078

3579          KK     202
3580          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 202
3581          BA     .48
3582          LG     .50     .00    3.99     .40     .00
3583          UI     16.     16.     16.     16.     28.     52.     60.     69.     76.     83.
3584          UI     89.     95.    102.    110.    120.    128.    146.    175.    193.    209.
3585          UI    184.    165.    150.    139.    130.    122.    111.    103.     95.     88.
3586          UI     80.     75.     66.     55.     46.     33.     28.     28.     26.     26.
3587          UI     23.     16.     16.     16.     16.      9.      5.      5.      5.      5.
3588          UI      5.      5.      5.      5.      5.      5.      5.      5.      5.      5.
3589          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3590          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3591          KK   CP202
3592          KM        ADD HYDROGRAPHS AT CP202
3593          HC       2   52.23

3594          KK    D202
3595          KM        DIVERT FLOW AT CP202 TO CP226
3596          DT   2D226
3597          DI       0     500    1000    2000    2599    5604   10604
3598          DQ       0       0       0       0       0       0       0

3599          KK    R202
3600          KM        ROUTE FLOW FROM CP202 TO CP204
3601          RS       2              -1       0
3602          RC    .016    .016    .016    4200   .0005
3603          RX     968     985    1003    1020    1030    1047    1065    1082
3604          RY    1082    1073    1064    1056    1056    1064    1073    1082
                                          HEC-1 INPUT                                          PAGE 83
1
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3605          KK   CP204
3606          KM        ADD HYDROGRAPHS AT CP204
3607          HC       2   58.13

3608          KK    R204
3609          KM        ROUTE FLOW FROM CP204 TO CP205
3610          RS       1              -1       0
3611          RC    .016    .016    .016    1050   .0005
3612          RX     968     985    1003    1020    1030    1047    1065    1082
3613          RY    1080    1071    1062    1054    1054    1062    1071    1080

3614          KK     205
3615          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 205
3616          BA     .06
3617          LG     .35     .36    3.50     .28     .00
3618          UI     40.    117.    176.     90.     28.      9.      5.      0.      0.      0.
3619          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3620          KK   CP205
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3621          KM        ADD HYDROGRAPHS AT CP205
3622          HC       2   58.19

3623          KK    R205
3624          KM        ROUTE FLOW FROM CP205 TO CP206
3625          RS       1              -1       0
3626          RC    .016    .016    .016    1100   .0005
3627          RX     972     988    1004    1020    1030    1046    1062    1078
3628          RY    1076    1068    1060    1052    1052    1060    1060    1076

3629          KK     206
3630          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 206
3631          BA     .12
3632          LG     .35     .35    4.05     .36     .00
3633          UI     30.    102.    159.    252.    175.    112.     49.     27.     10.      7.
3634          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3635          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3636          KK   CP206
3637          KM        ADD HYDROGRAPHS AT CP206
3638          HC       2   58.31

3639          KK  RCP206
3640          KM        ADD HYDROGRAPHS AT RCP206
3641          HC       2   68.69
3642          KM        RIVER ROUTE RCP206 TO RCP228A
3643          RS       1              -1       0
3644          RC    .035    .035    .035    2500   .0036
3645          RX    1000    1001    1002    1042    2042    2082    2083    2084
3646          RY    1070    1070    1070    1060    1060    1070    1070    1070
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3647          KK    228A
3648          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 228A
3649          BA     .08
3650          LG     .35     .35    4.23     .44     .00
3651          UI     27.     86.    150.    170.    102.     47.     22.      7.      5.      0.
3652          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3653          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3654          KK  RC228A
3655          KM        ADD HYDROGRAPHS AT RCP228A
3656          HC       2   68.77

3657          KK  RR228A
3658          KM        RIVER ROUTE RCP228A TO RCP245
3659          RS      11              -1       0
3660          RC    .035    .035    .035   10560   .0025
3661          RX    1000    1001    1002    1042    2042    2082    2083    2084
3662          RY    1066    1066    1066    1050    1050    1066    1066    1066

3663          KK  DR228A
3664          KM        THIS IS AN ARTIFICALLY DIVERTED HYDROGRAPH TO BE RETRIEVED LATER
3665          DT  DR228A
3666          DI       0    1000    2000    4000    6000    8000
3667          DQ       0    1000    2000    4000    6000    8000

3668          KK    CP10
3669          KM        RETURN DIVERTED HYDROGRAPH FROM WT#3 HEC-1 MODEL
3670          DR   DCP10

3671          KK     R10
3672          KM        ROUTE FLOW AT CP10 TO CP188
3673          RS       1              -1       0
3674          RC     .06     .04     .06    1000   .0044
3675          RX    1000    1050    1150    1240    1300    1350    1400    1405
3676          RY    1228  1227.5    1226    1225    1225    1226  1227.5    1228

3677          KK     188
3678          KM        RUNOFFF HYDROGRAPH FROM SUB-BASIN 188
3679          BA     .19
3680          LG     .35     .33    4.11     .51     .00
3681          UI     29.    120.    179.    274.    326.    221.    152.     76.     44.     24.
3682          UI      9.      9.      0.      0.      0.      0.      0.      0.      0.      0.
3683          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3684          KK   CP188
3685          KM        ADD HYDROGRAPHS AT CP188
3686          HC       2   11.06

3687          KK    R188
3688          KM        ROUTE FLOW FROM CP188 TO CP207A
3689          RS       3              -1
3690          RC    .025    .022    .025    5460   .0079
3691          RX    1000    1100    1200    1210    1230    1335    1355    1510
3692          RY    1240    1214    1212    1210    1210    1212    1214    1240
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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3693          KK    207A
3694          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 207A
3695          BA     .50
3696          LG     .35      .34     4.03      .55      .00
3697          UI     53.     124.     244.     314.     400.     593.     595.     448.     350.     270.
3698          UI    176.      93.      76.      53.      20.      16.      16.      16.      0.       0.
3699          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3700          KK  CP207A
3701          KM        ADD HYDROGRAPHS AT CP207A
3702          HC       2   11.56

3703          KK   R207A
3704          KM        ROUTE FLOW FROM CP207A TO CP214
3705          RS       2              -1
3706          RC    .022     .022     .025     3200    .0069
3707          RX    1000     1020     1030     1045     1065     1085     1325     1490
3708          RY    1179     1176     1172     1170     1170     1172     1174     1176

3709          KK     214
3710          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 214
3711          BA     .16
3712          LG     .35      .35     4.16      .38      .00
3713          UI     22.      81.     127.     176.     267.     201.     146.     100.      47.      31.
3714          UI     18.       7.       7.       7.       0.       0.       0.       0.       0.       0.
3715          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3716          KK   CP214
3717          KM        ADD HYDROGRAPHS AT CP214
3718          HC       2   11.72

3719          KK    R214
3720          KM        ROUTE FLOW FROM CP214 TO CP215
3721          RS       1              -1
3722          RC    .022     .022     .025     2250    .0049
3723          RX    1000     1010     1030     1045     1070     1150     1190     1310
3724          RY    1061     1060     1058     1056     1056     1058     1060     1062

3725          KK    215A
3726          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 215A
3727          BA     .45
3728          LG     .35      .33     3.94      .34      .00
3729          UI     47.     103.     209.     271.     341.     487.     551.     410.     325.     252.
3730          UI    178.      95.      77.      47.      29.      14.      14.      14.      14.       0.
3731          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
3732          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3733          KK   R215A
3734          KM        ROUTE FLOW FROM CP215A TO CP215
3735          RS       2              -1
3736          RC    .025      .02     .025     2800    .0046
3737          RX    1000     1190     1425     1435     1455     1478     1479     1480
3738          RY    1158     1156     1154     1152     1152     1159     1159     1159
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3739          KK     215
3740          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 215
3741          BA     .35
3742          LG     .35      .34     3.71      .31      .00
3743          UI     39.      95.     181.     233.     303.     457.     398.     306.     235.     177.
3744          UI     98.      65.      45.      29.      12.      12.      12.      12.       0.       0.
3745          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3746          KK   1I215
3747          KM        ADD HYDROGRAPHS AT CP215
3748          HC       2     0.8

3749          KK   CP215
3750          KM        ADD HYDROGRAPHS AT CP215
3751          HC       2   12.52

3752          KK    R215
3753          KM        ROUTE FLOW FROM CP215 TO CP233
3754          RS       3              -1
3755          RC     .02      .02     .025     5280    .0032
3756          RX    1000     1010     1020     1030     1050     1070     1190     1540
3757          RY    1043     1042     1040     1038     1038     1040     1042     1044

3758          KK     233
3759          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 233
3760          BA     .50
3761          LG     .35      .35     4.22      .39      .00
3762          UI     49.      94.     206.     267.     331.     430.     604.     483.     386.     306.
3763          UI    242.     163.      86.      76.      49.      31.      15.      15.      15.      15.
3764          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
3765          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3766          KK   CP233
3767          KM        ADD HYDROGRAPHS AT CP233
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3768          HC       2   13.02

3769          KK    R233
3770          KM        ROUTE FLOW FROM CP233 TO CP234
3771          RS       2              -1
3772          RC    .075    .035    .035    2640   .0057
3773          RX    1000    1200    1540    1930    1965    1980    2009    2010
3774          RY    1031    1030    1028    1026    1026    1028    1029    1029

3775          KK     216
3776          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 216
3777          BA     .51
3778          LG     .46     .09    4.21     .40     .00
3779          UI     26.     26.     27.     88.    108.    128.    145.    160.    180.    203.
3780          UI    240.    304.    342.    285.    246.    220.    198.    172.    154.    134.
3781          UI    117.     89.     63.     47.     44.     43.     27.     26.     26.      9.
3782          UI      8.      8.      8.      8.      8.      8.      8.      8.      0.      0.
3783          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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1                                        HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3784          KK    R216
3785          KM        ROUTE FLOW FROM CP216 TO CP234
3786          RS       4              -1
3787          RC     .02     .02     .04    5280   .0044
3788          RX    1000    1015    1020    1035    1070    1080    1140    1400
3789          RY    1031    1030    1028    1026    1026    1028    1030    1032

3790          KK     234
3791          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 234
3792          BA     .53
3793          LG     .50     .00    4.25     .40     .00
3794          UI     22.     22.     22.     35.     74.     87.    103.    113.    124.    134.
3795          UI    148.    164.    179.    214.    259.    289.    250.    219.    197.    181.
3796          UI    167.    149.    136.    122.    110.    100.     82.     63.     43.     39.
3797          UI     37.     36.     30.     22.     22.     22.     11.      7.      7.      7.
3798          UI      7.      7.      7.      7.      7.      7.      7.      7.      0.      0.
3799          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3800          KK   1I234
3801          KM        ADD HYDROGRAPHS AT CP234
3802          HC       2    1.04

3803          KK   CP234
3804          KM        ADD HYDROGRAPHS AT CP234
3805          HC       2   14.06

3806          KK    D234
3807          KM        DIVERT FROM CP234 TO CP248
3808          DT   1D248
3809          DI       0     290     677    3521   13393
3810          DQ       0       0     174    1824   10224

3811          KK    R234
3812          KM        ROUTE REMAINDER FROM CP234 TO CP235
3813          RS       3              -1
3814          RC     .06    .025    .025    2640   .0023
3815          RX    1000    1460    1900    1915    1930    1958    1959    1960
3816          RY    1018    1016    1016    1014    1014    1015    1015    1015

3817          KK     207
3818          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 207
3819          BA    1.00
3820          LG     .50     .00    3.99     .39     .00
3821          UI     39.     39.     39.     39.    125.    143.    169.    187.    209.    222.
3822          UI    241.    263.    291.    316.    374.    445.    510.    454.    399.    358.
3823          UI    329.    306.    280.    252.    231.    210.    191.    174.    145.    111.
3824          UI     83.     68.     66.     63.     63.     40.     39.     39.     39.     14.
3825          UI     12.     12.     12.     12.     12.     12.     12.     12.     12.     12.
3826          UI     12.     12.      0.      0.      0.      0.      0.      0.      0.      0.
3827          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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1                                        HEC-1 INPUT

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3828          KK    D207
3829          KM        DIVERT FROM CP207 TO CP208
3830          DT   2D208
3831          DI       0    1709   12182
3832          DQ       0    1314    6607

3833          KK    R207
3834          KM        ROUTE REMAINDER FROM CP207 TO CP217
3835          RS       8              -1
3836          RC    .035    .035    .075    5280   .0057
3837          RX    1000    1001    1002    1015    1060    1490    1740    2250
3838          RY    1151    1151    1151    1150    1150    1152    1154    1156

3839          KK     217
3840          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 217
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```
3841          BA     .49
3842          LG     .50      .00     4.19      .38      .00
3843          UI     22.      22.      22.      54.      81.      98.     112.     124.     135.     150.
3844          UI    167.     188.     233.     278.     278.     235.     207.     188.     172.     152.
3845          UI    137.     122.     109.      95.      73.      54.      40.      38.      37.      31.
3846          UI     22.      22.      22.       7.       7.       7.       7.       7.       7.       7.
3847          UI      7.       7.       7.       7.       0.       0.       0.       0.       0.       0.
3848          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3849          KK   CP217
3850          KM        ADD HYDROGRAPHS AT CP217
3851          HC       2    1.49

3852          KK    D217
3853          KM        DIVERT FROM CP217 TO CP218
3854          DT   DI218
3855          DI       0       90      884     6576    28127
3856          DQ       0       51      163     1840    10674

3857          KK    R217
3858          KM        ROUTE REMAINDER FROM CP217 TO CP235
3859          RS       7               -1
3860          RC     .02      .03     .075     5280    .0036
3861          RX    1000     1020     1035     1040     1050     1300     1640     1790
3862          RY    1015     1014     1015     1014     1014     1016     1018     1019

3863          KK     235
3864          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 235
3865          BA     .47
3866          LG     .50      .00     4.27      .40      .00
3867          UI     19.      19.      19.      28.      63.      74.      89.      98.     106.     115.
3868          UI    126.     140.     152.     178.     216.     251.     228.     198.     177.     162.
3869          UI    150.     135.     122.     112.      99.      91.      79.      62.      49.      34.
3870          UI     33.      31.      31.      21.      19.      19.      19.       6.       6.       6.
3871          UI      6.       6.       6.       6.       6.       6.       6.       6.       6.       0.
3872          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
3873          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
1                                                HEC-1 INPUT                                          PAGE 89

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


3874          KK   1I235
3875          KM        ADD HYDROGRAPHS AT CP235
3876          HC       2    1.96

3877          KK   CP235
3878          KM        ADD HYDROGRAPHS AT CP235
3879          HC       2   16.02

3880          KK    D235
3881          KM        DIVERT FROM CP235 TO CP248
3882          DT   2D248
3883          DI       0      158      313     4490     9737
3884          DQ       0        0      155     2380     5077

3885          KK    R235
3886          KM        ROUTE REMAINDER FROM CP235 TO CP236
3887          RS       5               -1
3888          RC     .04      .02      .02     5280    .0051
3889          RX    1000     1640     1660     1675     1685     1778     1779     1780
3890          RY    1097     1094     1095     1094     1094     1095     1095     1095

3891          KK    D191
3892          KM         RETURN DIVERTED HYDROGRAPH AT CP291 IN THE WTPHS1 HEC-1 MODEL
3893          DR   DI208

3894          KK    R191
3895          KM        ROUTE FLOW FROM CP191 TO CP208
3896          RS       5               -1        0
3897          RC    .022     .022     .050     5280    .0040
3898          RX    1000     1001     1002     1045     1110     1130     1160     1890
3899          RY    1143     1143     1143     1142     1142     1143   1141.5     1150

3900          KK     208
3901          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 208
3902          BA    1.00
3903          LG     .50      .00     4.18      .42      .00
3904          UI     40.      40.      40.      57.     133.     156.     188.     206.     224.     243.
3905          UI    265.     294.     320.     371.     453.     523.     489.     424.     379.     346.
3906          UI    321.     290.     262.     239.     215.     195.     172.     137.     110.      72.
3907          UI     72.      67.      67.      50.      40.      40.      40.      17.      12.      12.
3908          UI     12.      12.      12.      12.      12.      12.      12.      12.      12.       0.
3909          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
3910          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

3911          KK   1I208
3912          KM        ADD HYDROGRAPHS AT CP208
3913          HC       2    8.32

3914          KK    D207
3915          KM        RETURN DIVERT AT CP207
3916          DR   2D208
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3917          KK    R207
3918          KM        ROUTE FLOW FROM CP207 TO CP208
3919          RS       8              -1
3920          RC    .075    .035    .035    5280   .0059
3921          RX    1000    1001    1350    2000    2020    2038    2039    2040
3922          RY    1056    1056    1054    1052    1052    1053    1053    1053

3923          KK   CP208
3924          KM        ADD HYDROGRAPHS AT CP208
3925          HC       2    9.32

3926          KK    D208
3927          KM        DIVERT FROM CP208 TO CP219
3928          DT   1D219
3929          DI       0     599    5129    9299
3930          DQ       0     406    1039    1295

3931          KK    D208
3932          KM        DIVERT FROM CP208 TO CP209A
3933          DT  DI209A
3934          DI       0     193    4090    8004
3935          DQ       0     193    4066    7610

3936          KK    R208
3937          KM        ROUTE REMAINDER FROM CP208 TO CP218
3938          RS      13              -1
3939          RC    .025    .025    .035    5280   .0047
3940          RX    1000    1001    1002    1010    1040    1055    1100    2010
3941          RY    1123    1123    1123    1122    1122    1125    1124    1130

3942          KK     218
3943          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 218
3944          BA    1.00
3945          LG     .50     .00    4.20     .39     .00
3946          UI     39.     39.     39.     41.    128.    145.    172.    191.    212.    225.
3947          UI    246.    269.    295.    325.    385.    463.    514.    447.    393.    356.
3948          UI    327.    304.    275.    249.    229.    206.    188.    168.    136.    112.
3949          UI     71.     69.     65.     64.     57.     39.     39.     39.     31.     12.
3950          UI     12.     12.     12.     12.     12.     12.     12.     12.     12.     12.
3951          UI     12.      0.      0.      0.      0.      0.      0.      0.      0.      0.
3952          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3953          KK   1I218
3954          KM        ADD HYDROGRAPHS AT CP218
3955          HC       2   10.32

3956          KK    D217
3957          KM        RETURN DIVERT AT CP217
3958          DR   DI218
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

3959          KK    R217
3960          KM        ROUTE FLOW FROM CP217 TO CP218
3961          RS      10              -1
3962          RC    .075    .035    .035    5280   .0047
3963          RX    1000    1190    1650    1980    2030    2048    2049    2050
3964          RY    1123    1122    1120    1118    1118    1119    1119    1119

3965          KK   CP218
3966          KM        ADD HYDROGRAPHS AT CP218
3967          HC       2   10.81

3968          KK    D218
3969          KM        DIVERT FROM CP218 TO CP237
3970          DT   DI237
3971          DI       0      68    1086   10670
3972          DQ       0      68     664    2533

3973          KK    D218
3974          KM        DIVERT FROM CP218 TO CP219
3975          DT   2D219
3976          DI       0       0     422    8137
3977          DQ       0       0      99    2461

3978          KK    R218
3979          KM        ROUTE REMAINDER FROM CP218 TO CP236
3980          RS       5              -1
3981          RC     .02     .02    .075    5280   .0040
3982          RX    1000    1001    1002    1020    1090    1100    1210    1720
3983          RY    1097    1097    1097    1096    1096    1099    1098    1102

3984          KK     236
3985          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 236
3986          BA    1.00
3987          LG     .50     .00    3.88     .45     .00
```

```
3988        UI     38.     38.     38.     38.    113.    137.    160.    180.    199.    214.
3989        UI    229.    251.    276.    297.    343.    419.    470.    474.    411.    366.
3990        UI    334.    310.    288.    261.    236.    220.    196.    181.    161.    132.
3991        UI    108.     70.     67.     64.     62.     60.     38.     38.     38.     38.
3992        UI     12.     12.     12.     12.     12.     12.     12.     12.     12.     12.
3993        UI     12.     12.     12.      0.      0.      0.      0.      0.      0.      0.
3994        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

3995        KK   1I236
3996        KM        ADD HYDROGRAPHS AT CP236
3997        HC       2   10.32

3998        KK   CP236
3999        KM        ADD HYDROGRAPHS AT CP236
4000        HC       2   26.34
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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4001        KK    D236
4002        KM        DIVERT FROM CP236 TO CP249
4003        DT   DI249
4004        DI       0     236     411    6597   30351
4005        DQ       0       0      38    2223    8777

4006        KK    D236
4007        KM        DIVERT FROM CP236 TO CP250
4008        DT   1D250
4009        DI       0     236     373    4374   21574
4010        DQ       0       0     124    2251    8636

4011        KK    R236
4012        KM        ROUTE REMAINDER FROM CP236 TO CP237
4013        RS       2              -1
4014        RC     .02     .02     .02    2640   .0038
4015        RX    1000    1070    1100    1120    1150    1178    1179    1180
4016        RY    1079    1075    1082    1076    1076    1077    1077    1077

4017        KK    209A
4018        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 209A
4019        BA     .50
4020        LG     .50     .00    4.27     .41     .00
4021        UI     22.     22.     22.     42.     75.     89.    103.    115.    124.    137.
4022        UI    152.    166.    191.    238.    275.    260.    224.    199.    181.    167.
4023        UI    149.    134.    121.    108.     99.     80.     62.     40.     38.     36.
4024        UI     35.     26.     22.     22.     20.      7.      7.      7.      7.      7.
4025        UI      7.      7.      7.      7.      7.      7.      0.      0.      0.      0.
4026        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4027        KK    D208
4028        KM        RETURN DIVERT AT CP208
4029        DR   DI209A

4030        KK    R208
4031        KM        ROUTE FLOW FROM CP208 TO CP209A
4032        RS       2              -1
4033        RC     .75     .03     .03    2640   .0045
4034        RX    1000    1490    1890    1950    1970    1998    1999    2000
4035        RY    1130    1128    1126    1124    1124    1125    1125    1125

4036        KK   CP209A
4037        KM        ADD HYDROGRAPHS AT CP209A
4038        HC       2    9.82

4039        KK   D209A
4040        KM        DIVERT FROM CP209A TO CP220
4041        DT   1D220
4042        DI       0      57    5215   28650
4043        DQ       0      39    1907    3775
```



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LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4044        KK   D209A
4045        KM        DIVERT FROM CP209A TO CP209
4046        DT   2D209
4047        DI       0      18    3308   24875
4048        DQ       0       0     900   10854

4049        KK   R209A
4050        KM        ROUTE REMAINDER FROM CP209A TO CP219
4051        RS       7              -1
4052        RC    .035    .035    .075    5280   .0045
4053        RX    1000    1001    1002    1010    1200    1500    1880    2100
4054        RY    1113    1113    1113    1112    1112    1114    1116    1117

4055        KK    D208
4056        KM        RETURN DIVERT AT CP208
4057        DR   1D219

4058        KK    R208
```

```
4059          KM        ROUTE FLOW FROM CP208 TO CP219
4060          RS      22              -1
4061          RC    .075    .075    .075    6070   .0059
4062          RX    1000    1001    1002    1270    2570    2698    2699    2700
4063          RY    1115    1115    1115    1114    1114    1115    1115    1115

4064          KK     219
4065          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 219
4066          BA     .50
4067          LG     .50     .00    4.21     .40     .00
4068          UI     22.     22.     22.     45.     77.     92.    105.    119.    128.    140.
4069          UI    158.    173.    202.    247.    289.    253.    220.    196.    180.    164.
4070          UI    146.    132.    119.    106.     93.     72.     55.     39.     38.     36.
4071          UI     33.     22.     22.     22.     12.      7.      7.      7.      7.      7.
4072          UI      7.      7.      7.      7.      7.      0.      0.      0.      0.      0.
4073          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4074          KK   1I219
4075          KM        ADD HYDROGRAPHS AT CP219
4076          HC       2    9.82

4077          KK   2I219
4078          KM        ADD HYDROGRAPHS AT CP219
4079          HC       2   10.32

4080          KK    D218
4081          KM        RETURN DIVERT AT CP218
4082          DR   2D219

4083          KK    R218
4084          KM        ROUTE FLOW FROM CP218 TO CP219
4085          RS      12              -1
4086          RC    .075     .04     .04    2640   .0045
4087          RX    1000    1110    1290    1600    2050    2108    2109    2110
4088          RY    1101    1100    1098    1096    1096    1097    1097    1097
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4089          KK   CP219
4090          KM        ADD HYDROGRAPHS AT CP219
4091          HC       2   11.81

4092          KK    D219
4093          KM        DIVERT FROM CP219 TO CP238
4094          DT   DI238
4095          DI       0      70    1410   16774
4096          DQ       0      68     990   10452

4097          KK    D219
4098          KM        DIVERT FROM CP219 TO CP220
4099          DT   2D220
4100          DI       0       2     420    6322
4101          DQ       0       0     174    3073

4102          KK    R219
4103          KM        ROUTE REMAINDER FROM CP219 TO CP237
4104          RS      14              -1
4105          RC    .035    .035    .075    5280   .0036
4106          RX    1000    1001    1002    1020    1300    1820    2099    2100
4107          RY    1087    1087    1087    1086    1086    1088    1089    1089

4108          KK    D218
4109          KM        RETURN DIVERT AT CP218
4110          DR   DI237

4111          KK    R218
4112          KM        ROUTE FLOW FROM CP218 TO CP237
4113          RS      14              -1
4114          RC    .035    .035    .075    6700   .0046
4115          RX    1000    1001    1002    1020    1300    1820    2099    2100
4116          RY    1087    1087    1087    1086    1086    1088    1089    1089

4117          KK     237
4118          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 237
4119          BA     .50
4120          LG     .50     .00    3.61     .46     .00
4121          UI     20.     20.     20.     23.     65.     74.     88.     98.    108.    115.
4122          UI    126.    139.    151.    169.    204.    241.    255.    219.    195.    176.
4123          UI    162.    150.    135.    123.    113.    100.     93.     80.     62.     49.
4124          UI     35.     35.     32.     32.     23.     20.     20.     20.      9.      6.
4125          UI      6.      6.      6.      6.      6.      6.      6.      6.      6.      6.
4126          UI      6.      0.      0.      0.      0.      0.      0.      0.      0.      0.
4127          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4128          KK   1I237
4129          KM        ADD HYDROGRAPHS AT CP237
4130          HC       2   11.31
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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```
4131          KK   2I237
4132          KM        ADD HYDROGRAPHS AT CP237
4133          HC       2   12.31

4134          KK   CP237
4135          KM        ADD HYDROGRAPHS AT CP237
4136          HC       2   27.84

4137          KK    D237
4138          KM        DIVERT FROM CP237 TO CP250
4139          DT   2D250
4140          DI       0     292     346     629    3340   24038
4141          DQ       0       0       0     103    1577   11878

4142          KK    D237
4143          KM        DIVERT FROM CP237 TO CP250A
4144          DT  1D250A
4145          DI       0     292     346     526    1763   12160
4146          DQ       0       0      54     203     974    3738

4147          KK    R237
4148          KM        ROUTE REMAINDER FROM CP237 TO CP238
4149          RS       1              -1
4150          RC     .04     .02     .02    2640   .0049
4151          RX    1000    1545    1560    1570    1585    1618    1619    1620
4152          RY    1069    1066    1067  1062.5  1062.5    1067    1067    1067

4153          KK   1D192
4154          KM        RETURN DIVERTED HYDROGRAPH FROM WTPHS1 HEC-1 MODEL
4155          DR   DI209

4156          KK    R192
4157          KM        ROUTE FLOW FROM CP192 TO CP209
4158          RS       5              -1       0
4159          RC    .035    .035     .15    5280   .0045
4160          RX    1000    1001    1002    1015    1200    1470    1840    2300
4161          RY    1111    1111    1111    1110    1110    1112    1114    1116

4162          KK     209
4163          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 209
4164          BA     .50
4165          LG     .50     .00    3.85     .46     .00
4166          UI     22.     22.     22.     51.     80.     97.    111.    123.    134.    148.
4167          UI    166.    183.    221.    273.    289.    244.    215.    193.    178.    158.
4168          UI    141.    128.    113.    103.     82.     64.     40.     40.     37.     37.
4169          UI     23.     22.     22.     14.      7.      7.      7.      7.      7.      7.
4170          UI      7.      7.      7.      7.      0.      0.      0.      0.      0.      0.
4171          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4172          KK   1I209
4173          KM        ADD HYDROGRAPHS AT CP209
4174          HC       2    8.82

4175          KK   D209A
4176          KM        RETURN DIVERT AT CP209A
4177          DR   2D209

4178          KK   R209A
4179          KM        ROUTE FLOW FROM CP209A TO CP209
4180          RS       7              -1
4181          RC    .075    .035    .035    2640   .0057
4182          RX    1000    1240    1700    1980    1990    3028    3029    3030
4183          RY    1117    1116    1114    1112    1112    1113    1113    1113

4184          KK   CP209
4185          KM        ADD HYDROGRAPHS AT CP209
4186          HC       2   11.32

4187          KK    D209
4188          KM        DIVERT FROM CP209 TO CP221
4189          DT   1D221
4190          DI       0      39    3983   16787
4191          DQ       0      34    1666    5085

4192          KK    D209
4193          KM        DIVERT FROM CP209 TO CP210
4194          DT   2D210
4195          DI       0       5    2317   11702
4196          DQ       0       0     703    5354

4197          KK    R209
4198          KM        ROUTE REMAINDER FROM CP209 TO CP220
4199          RS       7              -1
4200          RC    .035    .035    .075    5280   .0040
4201          RX    1000    1001    1002    1015    1180    1560    1820    2050
4202          RY    1091    1091    1091    1090    1090    1092    1094    1095

4203          KK   D209A
```

```
4204          KM        RETURN DIVERT AT CP209A
4205          DR   1D220

4206          KK   R209A
4207          KM        ROUTE FLOW FROM CP209A TO CP220
4208          RS      12              -1
4209          RC    .075    .075    .075    6230   .0058
4210          RX    1000    1001    1002    1090    1280    1298    1299    1300
4211          RY    1140    1107    1107    1106    1106    1107    1107    1140
```



```
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4212          KK     220
4213          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 220
4214          BA     .50
4215          LG     .50     .00    4.13     .41     .00
4216          UI     22.     22.     22.     41.     74.     89.    103.    115.    124.    136.
4217          UI    151.    166.    189.    237.    272.    262.    224.    199.    182.    167.
4218          UI    150.    134.    122.    109.    100.     81.     62.     42.     38.     36.
4219          UI     35.     27.     22.     22.     21.      7.      7.      7.      7.      7.
4220          UI      7.      7.      7.      7.      7.      7.      0.      0.      0.      0.
4221          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4222          KK   1I220
4223          KM        ADD HYDROGRAPHS AT CP220
4224          HC       2   10.32

4225          KK   2I220
4226          KM        ADD HYDROGRAPHS AT CP220
4227          HC       2   11.82

4228          KK    D219
4229          KM        RETURN DIVERT AT CP219
4230          DR   2D220

4231          KK    R219
4232          KM        ROUTE FLOW FROM CP219 TO CP220
4233          RS       3              -1
4234          RC    .075    .020    .020    2640   .0045
4235          RX    1000    1460    1670    1700    1730    1768    1769    1770
4236          RY    1088    1085    1087    1080    1080    1087    1087    1087

4237          KK   CP220
4238          KM        ADD HYDROGRAPHS AT CP220
4239          HC       2   13.81

4240          KK    D220
4241          KM        DIVERT FROM CP220 TO CP239
4242          DT   DI239
4243          DI       0     735    9080   34764
4244          DQ       0     537    3765    9314

4245          KK    D220
4246          KM        DIVERT FROM CP220 TO CP221
4247          DT   2D221
4248          DI       0     198    5315   25450
4249          DQ       0     174    4011   17035

4250          KK    R220
4251          KM        ROUTE REMAINDER FROM CP220 TO CP238
4252          RS      15              -1
4253          RC    .035    .035    .075    5280   .0038
4254          RX    1000    1001    1002    1020    1150    1670    1869    1870
4255          RY    1033    1033    1033    1032    1032    1034    1036    1036
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4256          KK    D219
4257          KM        RETURN DIVERT AT CP219
4258          DR   DI238

4259          KK    R219
4260          KM        ROUTE FLOW FROM CP219 TO CP238
4261          RS       8              -1
4262          RC    .035    .035    .075    6230   .0051
4263          RX    1000    1001    1002    1020    1150    1670    1869    1870
4264          RY    1033    1033    1033    1032    1032    1034    1036    1036

4265          KK     238
4266          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 238
4267          BA     .50
4268          LG     .50     .00    3.52     .47     .00
4269          UI     21.     21.     21.     34.     70.     83.     98.    108.    118.    127.
4270          UI    140.    156.    170.    204.    247.    273.    234.    206.    185.    170.
4271          UI    157.    140.    127.    115.    104.     93.     76.     60.     39.     37.
4272          UI     35.     34.     27.     21.     21.     21.      9.      6.      6.      6.
4273          UI      6.      6.      6.      6.      6.      6.      6.      6.      0.      0.
4274          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```

```
4275          KK   1I238
4276          KM        ADD HYDROGRAPHS AT CP238
4277          HC       2   12.31

4278          KK   2I238
4279          KM        ADD HYDROGRAPHS AT CP238
4280          HC       2   14.31

4281          KK   CP238
4282          KM        ADD HYDROGRAPHS AT CP238
4283          HC       2   30.34

4284          KK    D238
4285          KM        DIVERT FROM CP238 TO CP250A
4286          DT  2D250A
4287          DI       0     180     568    2711    8584   18252
4288          DQ       0       0       0     184     837    2617

4289          KK    D238
4290          KM        DIVERT FROM CP238 TO CP251
4291          DT   1D251
4292          DI       0     568    2527    7747   15635
4293          DQ       0       0     522    2262    4829

4294          KK    R238
4295          KM        ROUTE REMAINDER FROM CP238 TO CP239
4296          RS       4              -1
4297          RC    .075     .02     .02    2640   .0023
4298          RX    1000    1230    1780    1790    1800    1810    1829    1830
4299          RY    1062    1060    1058    1056    1056    1058    1059    1059
1                                          HEC-1 INPUT                                                    PAGE 99

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4300          KK   2D192
4301          KM        RETURN DIVERTED HYDROGRAPH FROM WTPHS1 HEC-1 MODEL
4302          DR   DI210

4303          KK    R192
4304          KM        ROUTE FLOW FROM CP192 TO CP210
4305          RS       7              -1       0
4306          RC     .15     .15     .15    5900   .0054
4307          RX    1000    1001    1002    1050    2400    2548    2549    2550
4308          RY  1113.5    1113    1113    1112    1112    1113    1113  1113.5

4309          KK     210
4310          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 210
4311          BA     .46
4312          LG     .50     .00    3.84     .52     .00
4313          UI     20.     20.     20.     42.     71.     85.     97.    110.    118.    130.
4314          UI    146.    160.    188.    230.    266.    232.    202.    180.    165.    151.
4315          UI    133.    121.    108.     97.     84.     65.     49.     36.     35.     33.
4316          UI     29.     20.     20.     20.      9.      6.      6.      6.      6.      6.
4317          UI      6.      6.      6.      6.      6.      0.      0.      0.      0.      0.
4318          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4319          KK   1I210
4320          KM        ADD HYDROGRAPHS AT CP210
4321          HC       2    8.78

4322          KK    D209
4323          KM        RETURN DIVERT AT CP209
4324          DR   2D210

4325          KK    R209
4326          KM        ROUTE FLOW FROM CP209 TO CP210
4327          RS       6              -1
4328          RC    .075    .035    .035    2560   .0030
4329          RX    1000    1001    1630    2120    2250    2268    2269    2270
4330          RY    1102    1102    1100    1098    1098    1099    1099    1099

4331          KK   CP210
4332          KM        ADD HYDROGRAPHS AT CP210
4333          HC       2   11.78

4334          KK    R210
4335          KM        ROUTE FLOW FROM CP210 TO CP221
4336          RS      14              -1
4337          RC    .035    .035    .075    5450   .0033
4338          RX    1000    1001    1002    1020    1280    1880    2469    2470
4339          RY    1083    1083    1083    1082    1082    1084    1086    1088

4340          KK    D209
4341          KM        RETURN DIVERT AT CP209
4342          DR   1D221
1                                          HEC-1 INPUT                                                    PAGE100

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4343          KK    R209
4344          KM        ROUTE FLOW FROM CP209 TO CP221
```

```
4345          RS      22              -1
4346          RC    .075    .075    .075    5910   .0044
4347          RX    1000    1001    1002    1120    2150    2278    2279    2280
4348          RY    1091    1091    1091    1090    1090    1091    1091    1091

4349          KK     221
4350          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 221
4351          BA     .48
4352          LG     .50     .00    3.53     .48     .00
4353          UI     20.     20.     20.     36.     69.     82.     96.    106.    116.    126.
4354          UI    139.    154.    172.    210.    250.    258.    220.    194.    176.    162.
4355          UI    147.    132.    120.    107.     97.     84.     66.     50.     36.     35.
4356          UI     33.     33.     20.     20.     20.     15.      6.      6.      6.      6.
4357          UI      6.      6.      6.      6.      6.      6.      6.      0.      0.      0.
4358          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4359          KK   1I221
4360          KM        ADD HYDROGRAPHS AT CP221
4361          HC       2   11.80

4362          KK   2I221
4363          KM        ADD HYDROGRAPHS AT CP221
4364          HC       2   12.26

4365          KK    D220
4366          KM        RETURN DIVERT AT CP220
4367          DR   2D221

4368          KK    R220
4369          KM        ROUTE FLOW FROM CP220 TO CP221
4370          RS       4              -1
4371          RC    .075    .035    .035    2200   .0023
4372          RX    1000    1001    1470    1870    2160    2178    2179    2180
4373          RY    1082    1082    1080    1078    1078    1081    1081    1081

4374          KK   CP221
4375          KM        ADD HYDROGRAPHS AT CP221
4376          HC       2   14.75

4377          KK    R221
4378          KM        ROUTE FLOW FROM CP221 TO CP239
4379          RS      20              -1
4380          RC    .075    .075    .075    5750   .0032
4381          RX    1000    1001    1002    1320    2850    2998    2999    2999
4382          RY    1100    1071    1071    1070    1070    1071    1071    1100

4383          KK    D220
4384          KM        RETURN DIVERT AT CP220
4385          DR   DI239
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4386          KK    R220
4387          KM        ROUTE FLOW FROM CP220 TO CP239
4388          RS      21              -1
4389          RC    .075    .075    .075    5750   .0045
4390          RX    1000    1001    1002    1320    2850    2998    2999    3000
4391          RY    1071    1071    1071    1070    1070    1071    1071    1071

4392          KK     239
4393          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 239
4394          BA     .48
4395          LG     .50     .00    3.56     .47     .00
4396          UI     21.     21.     21.     41.     72.     86.    100.    112.    120.    133.
4397          UI    148.    161.    188.    231.    269.    247.    213.    191.    173.    159.
4398          UI    142.    128.    115.    104.     92.     74.     59.     37.     37.     34.
4399          UI     34.     23.     21.     21.     17.      6.      6.      6.      6.      6.
4400          UI      6.      6.      6.      6.      6.      6.      0.      0.      0.      0.
4401          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4402          KK   1I239
4403          KM        ADD HYDROGRAPHS AT CP239
4404          HC       2   14.29

4405          KK   2I239
4406          KM        ADD HYDROGRAPHS AT CP239
4407          HC       2   15.23

4408          KK   CP239
4409          KM        ADD HYDROGRAPHS AT CP239
4410          HC       2   31.76

4411          KK    D239
4412          KM        DIVERT FROM CP239 TO CP251
4413          DT   2D251
4414          DI       0     283     389     786    3215
4415          DQ       0       0      69     333    2481

4416          KK    R239
4417          KM        ROUTE REMAINDER FROM CP239 TO CP240
4418          RS       5              -1
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```
4419          RC     .05     .02     .02    2640   .0007
4420          RX    1000    1510    1755    1765    1775    1785    1809    1810
4421          RY    1058    1056    1054    1052    1052    1054    1055    1055

4422          KK     240
4423          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 240
4424          BA     .40
4425          LG     .50     .00    3.59     .48     .00
4426          UI     19.     19.     19.     53.     71.     89.     99.    110.    121.    136.
4427          UI    151.    180.    225.    249.    209.    182.    163.    149.    131.    117.
4428          UI    104.     92.     79.     59.     41.     34.     32.     32.     21.     19.
4429          UI     19.     11.      6.      6.      6.      6.      6.      6.      6.      6.
4430          UI      6.      0.      0.      0.      0.      0.      0.      0.      0.      0.
4431          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
1                                                HEC-1 INPUT                                          PAGE102

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4432          KK   CP240
4433          KM        ADD HYDROGRAPHS AT CP240
4434          HC       2   32.16

4435          KK    R240
4436          KM        ROUTE FLOW FROM CP240 TO CP241
4437          RS       5              -1
4438          RC    .025     .02     .02    3600   .0011
4439          RX    1000    1280    1620    1745    1770    1798    1799    1800
4440          RY    1056    1054    1052    1050    1050    1051    1051    1051

4441          KK     213
4442          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 213
4443          BA     .35
4444          LG     .35     .35    3.50     .28     .00
4445          UI     31.     51.    124.    164.    197.    244.    345.    374.    285.    235.
4446          UI    189.    151.    103.     56.     52.     32.     26.     10.     10.     10.
4447          UI     10.     10.      0.      0.      0.      0.      0.      0.      0.      0.
4448          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4449          KK    R213
4450          KM        ROUTE FLOW FROM CP213 TO CP212
4451          RS       8              -1
4452          RC    .025    .022    .025    4060   .0002
4453          RX    1000    1001    1140    1220    1290    1478    1479    1480
4454          RY  1077.7  1077.7    1076    1074    1074    1076  1077.7  1077.7

4455          KK     212
4456          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 212
4457          BA     .54
4458          LG     .50     .00    3.59     .49     .00
4459          UI     18.     18.     18.     18.     34.     59.     69.     80.     87.     95.
4460          UI    102.    109.    116.    127.    137.    148.    171.    205.    226.    232.
4461          UI    203.    183.    167.    155.    146.    135.    124.    114.    106.     97.
4462          UI     89.     84.     70.     57.     49.     32.     32.     31.     30.     30.
4463          UI     22.     18.     18.     18.     17.      6.      6.      6.      6.      6.
4464          UI      6.      6.      6.      6.      6.      6.      6.      6.      6.      0.
4465          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
4466          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4467          KK    D193
4468          KM        RETURN DIVERTED HYDROGRAPH FROM WTPHS1 HEC-1 MODEL
4469          DR   DI212

4470          KK    R193
4471          KM        ROUTE FLOW FROM CP193 TO CP212
4472          RS       5              -1       0
4473          RC    .022    .022     .06    8500   .0038
4474          RX    1000    1001    1002    1035    1070    1085    1140    2450
4475          RY  1095.5    1095    1095    1094    1094    1095    1094    1100
1                                                HEC-1 INPUT                                          PAGE103

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4476          KK   1I212
4477          KM        ADD HYDROGRAPHS AT CP212
4478          HC       2    0.54

4479          KK   SR212
4480          KM        STORAGE ROUTE THROUGH CP212
4481          RS       1    STOR       0       0
4482          SV       0    2.48   13.74   26.18   63.33
4483          SQ       0       0       0     483    6314
4484          SE  1077.1    1078  1079.4    1080    1081

4485          KK   CP212
4486          KM        ADD HYDROGRAPHS AT CP212
4487          HC       2    0.89

4488          KK    R212
4489          KM        ROUTE FLOW FROM CP212 TO CP221A
4490          RS      11              -1
4491          RC    .025    .022    .025    5000   .0002
```

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4492          RX    1000    1001    1070    1090    1220    1287    1289    1290
4493          RY    1077    1077    1076    1074    1074    1079    1079    1079

4494          KK     211
4495          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 211
4496          BA     .49
4497          LG     .50     .00    3.69     .52     .00
4498          UI     21.     21.     21.     40.     72.     86.    100.    112.    121.    132.
4499          UI    147.    162.    183.    231.    264.    258.    220.    196.    178.    165.
4500          UI    147.    132.    120.    107.     98.     81.     60.     43.     37.     35.
4501          UI     35.     28.     21.     21.     21.      8.      6.      6.      6.      6.
4502          UI      6.      6.      6.      6.      6.      6.      0.      0.      0.      0.
4503          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4504          KK    R211
4505          KM        ROUTE FLOW FROM CP211 TO CP221A
4506          RS       9              -1
4507          RC    .035    .035    .075    5400   .0009
4508          RX    1000    1001    1002    1020    1100    1620    2119    2120
4509          RY    1081    1081    1081    1080    1080    1082    1084    1084

4510          KK    221A
4511          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 221A
4512          BA     .31
4513          LG     .50     .00    3.66     .53     .00
4514          UI     12.     12.     12.     12.     36.     43.     50.     57.     63.     67.
4515          UI     72.     79.     87.     94.    109.    132.    151.    145.    126.    113.
4516          UI    103.     96.     88.     80.     73.     67.     60.     56.     48.     38.
4517          UI     32.     21.     21.     20.     19.     17.     12.     12.     12.      9.
4518          UI      4.      4.      4.      4.      4.      4.      4.      4.      4.      4.
4519          UI      4.      4.      4.      0.      0.      0.      0.      0.      0.      0.
4520          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4521          KK  1I221A
4522          KM        ADD HYDROGRAPHS AT CP221A
4523          HC       2     .80

4524          KK  SR221A
4525          KM        STORAGE ROUTE THROUGH CP221A
4526          RS       1    STOR       0       0
4527          SV       0    1.31    8.04   28.16      40
4528          SQ       0       0       0    2250    5262
4529          SE    1077    1078  1078.9    1080  1080.5

4530          KK  CP221A
4531          KM        ADD HYDROGRAPHS AT CP221A
4532          HC       2    1.69

4533          KK   R221A
4534          KM        ROUTE FLOW FROM CP221A TO CP222
4535          RS       6              -1
4536          RC    .025    .022    .022    7800   .0024
4537          RX    1000    1001    1070    1090    1220    1287    1289    1290
4538          RY    1077    1077    1076    1074    1074    1079    1079    1079

4539          KK     222
4540          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 222
4541          BA    1.10
4542          LG     .31     .35    3.59     .29   15.00
4543          UI     34.     34.     34.     34.     34.    112.    121.    135.    158.    168.
4544          UI    184.    194.    205.    219.    237.    257.    272.    305.    354.    407.
4545          UI    455.    414.    370.    337.    311.    291.    274.    257.    236.    218.
4546          UI    204.    189.    173.    163.    148.    130.     98.     87.     60.     60.
4547          UI     58.     56.     56.     47.     34.     34.     34.     34.     24.     10.
4548          UI     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.
4549          UI     10.     10.     10.     10.      0.      0.      0.      0.      0.      0.
4550          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4551          KK   CP222
4552          KM        ADD HYDROGRAPHS AT CP222
4553          HC       2    2.79

4554          KK    R222
4555          KM        ROUTE FLOW FROM CP222 TO CP241
4556          RS       8              -1
4557          RC     .03    .025     .03    5770   .0022
4558          RX    1000    1100    1320    1540    2350    2470    2630    2710
4559          RY    1057    1056    1054    1052    1052    1054    1056    1057

4560          KK    D202
4561          KM        RETURN DIVERTED HYDROGRAPH FROM CP202
4562          DR   2D226
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4563          KK    R202
4564          KM        ROUTE FLOW FROM CP202 TO CP226
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```
4565          RS      19              -1       0
4566          RC     .05     .05     .05    5620   .0014
4567          RX    1000    1001    1002    1600    2090    2098    2099    2100
4568          RY    1080    1080    1080    1078    1078    1080    1080    1080

4569          KK     226
4570          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 226
4571          BA    1.18
4572          LG     .15     .26    3.53     .34   17.00
4573          UI    134.    343.    641.    827.   1094.   1619.   1306.   1008.    765.    549.
4574          UI    283.    214.    134.     68.     41.     41.     41.      0.      0.      0.
4575          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4576          KK   1I226
4577          KM        ADD HYDROGRAPHS AT CP226
4578          HC       2    1.18

4579          KK    D196
4580          KM        RETURN DIVERTED FLOW AT CP196
4581          DR   1D226

4582          KK   CP226
4583          KM        ADD HYDROGRAPHS AT CP226
4584          HC       2    1.18

4585          KK   SR226
4586          KM        STORAGE ROUTE THROUGH CP226
4587          RS       1    STOR       0       0
4588          SV       0    0.24    3.34   18.04   51.44  102.84  171.74
4589          SQ       0       0      21     136     428     875    1487
4590          SE  1075.2  1075.5    1076  1076.5    1077  1077.5    1078

4591          KK    R226
4592          KM        ROUTE FLOW FROM CP226 TO CP223
4593          RS      26              -1       0
4594          RC     .05     .05     .05    7840   .0011
4595          RX    1000    1200    1300    1500    1600    1800    1900    2000
4596          RY    1100  1074.5    1074    1073    1073    1074  1074.5    1100

4597          KK    D195
4598          KM        RETURN DIVERTED FLOW AT CP195
4599          DR   1D201

4600          KK    R195
4601          KM        ROUTE DIVERTED FLOW FROM CP195 TO CP201
4602          RS       1              -1
4603          RC    .035    .035    .035    1000   .0019
4604          RX       0     100     200     800    1000    1700    2000    2400
4605          RY    1089  1088.5    1088  1086.5  1086.5    1088    1089    1090
```

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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4606          KK     201
4607          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 201
4608          BA     .34
4609          LG     .35     .35    3.56     .29     .00
4610          UI     38.     96.    180.    233.    304.    457.    381.    294.    225.    166.
4611          UI     86.     64.     40.     24.     12.     12.     12.      0.      0.      0.
4612          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4613          KK   CP201
4614          KM        ADD HYDROGRAPHS AT CP201
4615          HC       2    0.34

4616          KK    R201
4617          KM        ROUTE FLOW FROM CP201 TO CP223
4618          RS      19              -1       0
4619          RC     .05    .035    .050    7000   .0017
4620          RX    1000    1200    1300    1500    1600    1800    1900    2000
4621          RY    1078  1074.5    1074    1073    1073    1074  1074.5    1078

4622          KK     223
4623          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 223
4624          BA    1.26
4625          LG     .12     .33    5.09     .20   72.00
4626          UI    119.    218.    491.    643.    786.   1003.   1453.   1254.    993.    797.
4627          UI    634.    465.    257.    200.    140.    112.     37.     37.     37.     37.
4628          UI     37.      0.      0.      0.      0.      0.      0.      0.      0.      0.
4629          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4630          KK   1I223
4631          KM        ADD HYDROGRAPHS AT CP223
4632          HC       2    1.60

4633          KK   CP223
4634          KM        ADD HYDROGRAPHS AT CP223
4635          HC       2    2.78

4636          KK    D223
4637          KM        DIVERT FROM CP223 TO CP225
4638          DT   DI225
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4639          DI       0      60     400    1000    4000    8000
4640          DQ       0      60      60      60      60      60

4641          KK    R223
4642          KM        ROUTE REMAINDER FROM CP223 TO CP224
4643          RS       4              -1
4644          RC     .03    .025     .03    2900   .0017
4645          RX    1000    1120    1350    1590    1780    1960    2129    2130
4646          RY    1067    1066    1064    1063    1063    1064  1065.5  1065.5
1                                         HEC-1 INPUT                                                          PAGE107

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4647          KK     224
4648          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 224
4649          BA     .80
4650          LG     .35     .32    4.03     .25     .00
4651          UI     94.    258.    469.    606.    833.   1145.    854.    655.    492.    310.
4652          UI    163.    121.     79.     29.     29.     29.     29.      0.      0.      0.
4653          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4654          KK   CP224
4655          KM        ADD HYDROGRAPHS AT CP224
4656          HC       2    3.58

4657          KK    R224
4658          KM        ROUTE FLOW FROM CP224 TO CP241
4659          RS       7              -1
4660          RC     .03    .025     .03    5460   .0027
4661          RX    1000    1100    1320    1540    2350    2470    2630    2710
4662          RY    1057    1056    1054    1052    1052    1054    1056    1057

4663          KK     241
4664          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 241
4665          BA    1.51
4666          LG     .38     .28    4.04     .40     .00
4667          UI    133.    206.    513.    682.    817.   1005.   1376.   1635.   1253.   1036.
4668          UI    834.    673.    488.    276.    223.    162.    133.     50.     41.     41.
4669          UI     41.     41.      0.      0.      0.      0.      0.      0.      0.      0.
4670          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4671          KK   1I241
4672          KM        ADD HYDROGRAPHS AT CP241
4673          HC       2    5.09

4674          KK   2I241
4675          KM        ADD HYDROGRAPHS AT CP241
4676          HC       2    7.88

4677          KK   CP241
4678          KM        ADD HYDROGRAPHS AT CP241
4679          HC       2   40.04

4680          KK   SR241
4681          KM        STORAGE ROUTE THROUGH CP241
4682          RS       1    STOR       0       0
4683          SV       0     .09     .65     .94    8.45   16.94
4684          SQ       0       4     280     324    1773    7505
4685          SE  1042.2    1044    1046  1046.3    1048    1049

4686          KK    R241
4687          KM        ROUTE FLOW FROM CP241 TO CP253
4688          RS       4              -1
4689          RC    .075     .03    .075    5700   .0039
4690          RX    1000    1001    1440    1565    1585    1700    2324    2325
4691          RY    1030    1030    1028    1026    1026    1028    1030    1030
1                                         HEC-1 INPUT                                                          PAGE108

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4692          KK     253
4693          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 253
4694          BA    1.00
4695          LG     .50     .00    3.82     .43     .00
4696          UI     42.     42.     42.     67.    140.    164.    195.    214.    235.    253.
4697          UI    280.    310.    339.    406.    491.    545.    470.    413.    371.    341.
4698          UI    314.    280.    255.    230.    207.    188.    153.    119.     80.     73.
4699          UI     70.     68.     56.     42.     42.     42.     20.     13.     13.     13.
4700          UI     13.     13.     13.     13.     13.     13.     13.     13.      0.      0.
4701          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4702          KK   1I253
4703          KM        ADD HYDROGRAPHS AT CP253
4704          HC       2   41.04

4705          KK    253A
4706          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 253A
4707          BA     .25
4708          LG     .32     .33    4.04     .37     .00
4709          UI     29.     75.    139.    179.    239.    349.    274.    211.    160.    111.
4710          UI     57.     43.     29.     12.      9.      9.      9.      0.      0.      0.
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4711          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4712          KK   R253A
4713          KM        ROUTE FLOW FROM CP253A TO CP253
4714          RS      10              -1
4715          RC    .075    .075    .075    2800   .0030
4716          RX    1000    1001    1010    1110    1320    1480    1709    1710
4717          RY    1027    1027    1026    1025    1025    1026    1027    1027

4718          KK   2I253
4719          KM        ADD HYDROGRAPHS AT CP253
4720          HC       2    41.29
              *
              *   ADD PORTIONS OF STANLEY MODEL (12278H1A)FOR DOWNSTREAM PART OF WATERSHED
              *   TO FCDMC MODEL "DYSHEC1.DAT"
              *

4721          KK     247
4722          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 247
4723          BA     .50
4724          LG     .50     .00    4.21     .40     .00
4725          UI     21.     21.     21.     38.     72.     85.    100.    111.    121.    131.
4726          UI    145.    161.    180.    219.    261.    269.    229.    203.    183.    169.
4727          UI    153.    137.    125.    111.    101.     88.     68.     52.     37.     37.
4728          UI     35.     34.     21.     21.     21.     15.      6.      6.      6.      6.
4729          UI      6.      6.      6.      6.      6.      6.      6.      0.      0.      0.
4730          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
1                                          HEC-1 INPUT                                          PAGE109

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4731          KK    D247
4732          KM        DIVERT FROM CP247 TO CP261
4733          DT   DI261
4734          DI       0    3183    4006    8756   30610
4735          DQ       0       0       0     293    4086

4736          KK    R247
4737          KM        ROUTE REMAINDER FROM CP247 TO CP248
4738          RS       6              -1
4739          RC    .075     .03     .03    5280   .0049
4740          RX    1000    1370    1800    1950    2080    2108    2109    2110
4741          RY    1100    1098    1096    1094    1094    1095    1095    1095

4742          KK     248
4743          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 248
4744          BA    1.00
4745          LG     .50     .00    4.22     .40     .00
4746          UI     37.     37.     37.     37.    108.    134.    156.    177.    194.    210.
4747          UI    225.    245.    269.    290.    328.    399.    454.    482.    417.    371.
4748          UI    338.    312.    291.    264.    241.    221.    201.    184.    169.    142.
4749          UI    107.     84.     66.     65.     61.     61.     45.     37.     37.     37.
4750          UI     24.     11.     11.     11.     11.     11.     11.     11.     11.     11.
4751          UI     11.     11.     11.     11.      0.      0.      0.      0.      0.      0.
4752          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4753          KK    D234
4754          KM        RETURN DIVERT AT CP234
4755          DR   1D248

4756          KK    R234
4757          KM        ROUTE FLOW FROM CP234 TO CP248
4758          RS       5              -1
4759          RC     .02     .02     .04    6550   .0050
4760          RX    1000    1001    1002    1040    1090    1100    1130    2000
4761          RY    1101    1101    1101    1100    1100    1101    1100    1102

4762          KK   1I248
4763          KM        ADD HYDROGRAPHS AT CP248
4764          HC       2   15.06

4765          KK   2I248
4766          KM        ADD HYDROGRAPHS AT CP248
4767          HC       2   17.52

4768          KK    D235
4769          KM        RETURN DIVERT AT CP235
4770          DR   2D248

4771          KK    R235
4772          KM        ROUTE FLOW FROM CP235 TO CP248
4773          RS       4              -1
4774          RC     .02     .02     .04    5280   .0051
4775          RX    1000    1001    1002    1040    1090    1100    1130    2000
4776          RY    1101    1101    1101    1100    1100    1101    1100    1102
1                                          HEC-1 INPUT                                          PAGE110

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4777          KK   CP248
4778          KM        ADD HYDROGRAPHS AT CP248
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4779          HC       2   12.55

4780          KK    D248
4781          KM        DIVERT FROM CP248 TO CP262
4782          DT   DI262
4783          DI       0     691    6380   18685
4784          DQ       0     683    5565   15348

4785          KK    R248
4786          KM        ROUTE REMAINDER FROM CP248 TO CP249
4787          RS      10              -1
4788          RC    .075    .035    .035    5280   .0036
4789          RX    1000    1290    1690    1970    2000    2028    2029    2030
4790          RY    1085    1084    1082    1080    1080    1081    1081    1081

4791          KK     249
4792          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 249
4793          BA    1.00
4794          LG     .50     .00    3.98     .48     .00
4795          UI     37.     37.     37.     37.    112.    136.    159.    179.    197.    213.
4796          UI    228.    249.    274.    294.    338.    415.    461.    478.    412.    368.
4797          UI    335.    310.    290.    261.    238.    220.    198.    181.    163.    135.
4798          UI    108.     75.     66.     64.     62.     62.     39.     37.     37.     37.
4799          UI     17.     11.     11.     11.     11.     11.     11.     11.     11.     11.
4800          UI     11.     11.     11.      0.      0.      0.      0.      0.      0.      0.
4801          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4802          KK   1I249
4803          KM        ADD HYDROGRAPHS AT CP249
4804          HC       2   18.52

4805          KK    D236
4806          KM        RETURN DIVERT AT CP236
4807          DR   DI249

4808          KK    R236
4809          KM        ROUTE FLOW FROM CP236 TO CP249
4810          RS       6              -1
4811          RC     .02     .02    .075    5280   .0036
4812          RX    1000    1001    1002    1040    1100    1110    1280    1520
4813          RY    1073    1073    1073    1072    1072    1074    1076    1078

4814          KK   CP249
4815          KM        ADD HYDROGRAPHS AT CP249
4816          HC       2   28.84

4817          KK    D249
4818          KM        DIVERT FROM CP249 TO CP264
4819          DT   DI264
4820          DI       0      72     654    2109    5685
4821          DQ       0       0      66     481    1754
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

4822          KK    R249
4823          KM        ROUTE REMAINDER FROM CP249 TO CP250
4824          RS       6              -1
4825          RC     .05     .03     .03    5280   .0040
4826          RX    1000    1580    1660    1670    1705    1728    1729    1730
4827          RY    1100    1058    1059    1058    1058    1059    1059    1100

4828          KK    D236
4829          KM        RETURN DIVERT AT CP236
4830          DR   1D250

4831          KK    R236
4832          KM        ROUTE FLOW FROM CP236 TO CP250
4833          RS      39              -1
4834          RC    .075    .075    .075    7540   .0047
4835          RX    1000    1001    1002    1140    2330    2718    2719    2720
4836          RY    1071    1071    1071    1070    1070    1071    1071    1071

4837          KK     250
4838          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 250
4839          BA     .49
4840          LG     .50     .00    3.73     .47     .00
4841          UI     21.     21.     21.     40.     72.     86.    100.    112.    121.    132.
4842          UI    147.    161.    183.    230.    263.    258.    221.    196.    178.    165.
4843          UI    147.    132.    121.    107.     98.     82.     60.     43.     37.     35.
4844          UI     35.     28.     21.     21.     21.      8.      6.      6.      6.      6.
4845          UI      6.      6.      6.      6.      6.      6.      0.      0.      0.      0.
4846          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4847          KK   1I250
4848          KM        ADD HYDROGRAPHS AT CP250
4849          HC       2   26.83

4850          KK    D237
4851          KM        RETURN DIVERT AT CP237
4852          DR   2D250
```

```
4853          KK    R237
4854          KM        ROUTE FLOW FROM CP237 TO CP250
4855          RS      10              -1
4856          RC    .035    .035    .075    5280   .0032
4857          RX    1000    1001    1002    1010    1120    1670    1929    1930
4858          RY  1058.5  1058.5  1058.5    1058    1058    1060    1061    1061

4859          KK   2I250
4860          KM        ADD HYDROGRAPHS AT CP250
4861          HC       2   28.33

4862          KK   CP250
4863          KM        ADD HYDROGRAPHS AT CP250
4864          HC       2   30.83
1                                   HEC-1 INPUT                                    PAGE112

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4865          KK    R250
4866          KM        ROUTE FLOW FROM CP250 TO CP250A
4867          RS       5              -1
4868          RC     .05     .03     .03    3050   .0036
4869          RX    1000    1580    1660    1670    1705    1728    1729    1730
4870          RY    1100    1050    1051    1050    1050    1051    1051    1100

4871          KK    D237
4872          KM        RETURN DIVERT AT CP237
4873          DR  1D250A

4874          KK    R237
4875          KM        ROUTE FLOW FROM CP237 TO CP250A
4876          RS      12              -1
4877          RC     .02    .035    .075    6550   .0040
4878          RX    1000    1030    1050    1070    1220    1580    1839    1840
4879          RY    1051    1050    1051    1050    1050    1052    1054    1054

4880          KK    250A
4881          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 250A
4882          BA     .51
4883          LG     .50     .00    3.59     .47     .00
4884          UI     20.     20.     20.     25.     67.     77.     92.    102.    111.    120.
4885          UI    130.    145.    157.    178.    220.    251.    257.    221.    196.    179.
4886          UI    165.    152.    136.    125.    113.    102.     94.     78.     59.     44.
4887          UI     36.     35.     33.     33.     20.     20.     20.     18.      6.      6.
4888          UI      6.      6.      6.      6.      6.      6.      6.      6.      6.      6.
4889          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
4890          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4891          KK  1I250A
4892          KM        ADD HYDROGRAPHS AT CP250A
4893          HC       2   28.35

4894          KK    D238
4895          KM        RETURN DIVERT AT CP238
4896          DR  2D250A

4897          KK    R238
4898          KM        ROUTE FLOW FROM CP238 TO CP250A
4899          RS      20              -1
4900          RC     .02    .035    .075    5280   .0030
4901          RX    1000    1030    1050    1070    1220    1580    1839    1040
4902          RY    1051    1050    1051    1050    1050    1052    1054    1054

4903          KK  2I250A
4904          KM        ADD HYDROGRAPHS AT CP250A
4905          HC       2   30.85
1                                   HEC-1 INPUT                                    PAGE113

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4906          KK  CP250A
4907          KM        ADD HYDROGRAPHS AT CP250A
4908          HC       2   33.84

4909          KK   D250A
4910          KM        DIVERT FROM CP250A TO CP265A
4911          DT  DI265A
4912          DI       0     825    2520    4782   10712
4913          DQ       0       0      13     174     958

4914          KK   D250A
4915          KM        DIVERT FROM CP250A TO CP266
4916          DT   1D266
4917          DI       0     825    2507    4608    9754
4918          DQ       0       0    1091    2426    4520

4919          KK   R250A
4920          KM        ROUTE REMAINDER FROM CP250A TO CP251
4921          RS       3              -1
4922          RC    .075     .03     .03    2550   .0031
4923          RX    1000    1001    1440    1650    1680    1708    1709    1710
```

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4924          RY    1043    1043    1042    1040    1040    1041    1041    1041

4925          KK    D238
4926          KM        RETURN DIVERT AT CP238
4927          DR   1D251

4928          KK    R238
4929          KM        ROUTE FLOW FROM CP238 TO CP251
4930          RS      42              -1
4931          RC    .075    .075    .075    5910   .0041
4932          RX    1000    1001    1002    1120    2210    2488    2489    2490
4933          RY    1047    1047    1047    1046    1046    1047    1047    1047

4934          KK     251
4935          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 251
4936          BA     .50
4937          LG     .50     .00    3.53     .48     .00
4938          UI     21.     21.     21.     34.     70.     83.     98.    108.    118.    127.
4939          UI    141.    156.    171.    204.    248.    273.    234.    206.    185.    170.
4940          UI    157.    140.    127.    115.    104.     93.     75.     60.     38.     37.
4941          UI     35.     34.     27.     21.     21.     21.      9.      6.      6.      6.
4942          UI      6.      6.      6.      6.      6.      6.      6.      6.      0.      0.
4943          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4944          KK   1I251
4945          KM        ADD HYDROGRAPHS AT CP251
4946          HC       2   30.84
1                                   HEC-1 INPUT                                          PAGE114

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4947          KK    D239
4948          KM        RETURN DIVERT AT CP239
4949          DR   2D251

4950          KK    R239
4951          KM        ROUTE FLOW FROM CP239 TO CP251
4952          RS       6              -1
4953          RC    .035    .035    .075    5280   .0034
4954          RX    1000    1001    1002    1055    1095    1770    1959    1960
4955          RY    1049    1049    1049    1048    1048    1050    1051    1051

4956          KK   2I251
4957          KM        ADD HYDROGRAPHS AT CP251
4958          HC       2   32.26

4959          KK   CP251
4960          KM        ADD HYDROGRAPHS AT CP251
4961          HC       2   35.76

4962          KK    D251
4963          KM        DIVERT FROM CP251 TO CP266
4964          DT   2D266
4965          DI       0      70     825    2936
4966          DQ       0      48     687    2384

4967          KK    R251
4968          KM        ROUTE REMAINDER FROM CP251 TO CP252
4969          RS       3              -1
4970          RC    .075    .035    .035    2640   .0019
4971          RX    1000    1001    1240    1880    1970    1998    1999    2000
4972          RY    1039    1039    1038    1036    1036    1037    1037    1037

4973          KK     252
4974          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 252
4975          BA     .50
4976          LG     .50     .00    4.45     .40     .00
4977          UI     21.     21.     21.     33.     69.     81.     97.    106.    116.    125.
4978          UI    138.    153.    167.    199.    241.    272.    237.    207.    187.    171.
4979          UI    158.    141.    128.    116.    104.     96.     79.     59.     43.     37.
4980          UI     35.     34.     30.     21.     21.     21.     13.      6.      6.      6.
4981          UI      6.      6.      6.      6.      6.      6.      6.      6.      0.      0.
4982          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

4983          KK   CP252
4984          KM        ADD HYDROGRAPHS AT CP252
4985          HC       2   36.66

4986          KK    D252
4987          KM        DIVERT FROM CP252 TO CP267
4988          DT   DI267
4989          DI       0      67    2745    5417   10449
4990          DQ       0      66    2582    5037    8991
1                                   HEC-1 INPUT                                          PAGE115

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


4991          KK    R252
4992          KM        ROUTE REMAINDER FROM CP252 TO CP253
4993          RS      11              -1
4994          RC    .075    0.35    .035    2900   .0028
```

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4995          RX    1000    1001    1002    1910    1930    1958    1959    1960
4996          RY    1032    1032    1030    1028    1028    1029    1029    1029

4997          KK   CP253
4998          KM        ADD HYDROGRAPHS AT CP253
4999          HC       2   46.19

5000          KK   SR253
5001          KM        STORAGE ROUTE THROUGH CP253
5002          RS       1    STOR       0       0
5003          SV       0    .045    3.58   16.31   29.98   43.46   60.96
5004          SQ       0       2     190     380    1145    3731    6823
5005          SE  1021.1    1022    1024  1025.3    1026  1026.5  1027.0

5006          KK    R253
5007          KM        ROUTE FLOW FROM CP253 TO CP268
5008          RS       4              -1
5009          RC    .075     .03    .075    5280   .0023
5010          RX    1000    1001    1002    1400    1520    2630    2629    2628
5011          RY    1100    1022    1022    1020    1020    1022    1022    1100

5012          KK     268
5013          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 268
5014          BA     .95
5015          LG     .50     .00    5.00     .38     .00
5016          UI     36.     36.     36.     36.    116.    134.    158.    176.    196.    209.
5017          UI    226.    247.    273.    295.    346.    413.    479.    436.    381.    343.
5018          UI    314.    291.    269.    240.    222.    201.    182.    169.    141.    109.
5019          UI     86.     64.     64.     60.     60.     43.     36.     36.     36.     20.
5020          UI     11.     11.     11.     11.     11.     11.     11.     11.     11.     11.
5021          UI     11.     11.      0.      0.      0.      0.      0.      0.      0.      0.
5022          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5023          KK   1I268
5024          KM        ADD HYDROGRAPHS AT CP268
5025          HC       2   47.14

5026          KK   D250A
5027          KM        RETURN DIVERT AT CP250A
5028          DR   1D266

5029          KK   R250A
5030          KM        ROUTE FLOW FROM CP250A TO CP266
5031          RS      15              -1
5032          RC     .03     .03    .075    6230   .0034
5033          RX    1000    1001    1002    1060    1110    1838    1839    1840
5034          RY    1031    1031    1031    1030    1030    1032    1032    1032
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5035          KK     266
5036          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 266
5037          BA     .33
5038          LG     .50     .00    3.50     .47     .00
5039          UI     12.     12.     12.     12.     28.     40.     46.     54.     59.     64.
5040          UI     68.     73.     79.     87.     94.    108.    131.    145.    150.    130.
5041          UI    116.    106.     98.     92.     85.     77.     71.     65.     59.     55.
5042          UI     48.     39.     34.     21.     21.     20.     19.     19.     13.     12.
5043          UI     12.     12.      8.      4.      4.      4.      4.      4.      4.      4.
5044          UI      4.      4.      4.      4.      4.      4.      0.      0.      0.      0.
5045          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5046          KK   1I266
5047          KM        ADD HYDROGRAPHS AT CP266
5048          HC       2   34.17

5049          KK    D251
5050          KM        RETURN DIVERT AT CP251
5051          DR   2D266

5052          KK    R251
5053          KM        ROUTE FLOW FROM CP251 TO CP266
5054          RS       3              -1
5055          RC     .03     .03    .075    5280   .0025
5056          RX    1000    1001    1002    1060    1110    1838    1839    1840
5057          RY    1100    1031    1031    1030    1030    1032    1032    1032

5058          KK   CP266
5059          KM        ADD HYDROGRAPHS AT CP266
5060          HC       2   36.09

5061          KK    D266
5062          KM        DIVERT FROM CP266 TO CP283
5063          DT   DI283
5064          DI       0     231     647    1811    5693
5065          DQ       0      38      73     203    1051

5066          KK    R266
5067          KM        ROUTE REMAINDER FROM CP266 TO CP267
5068          RS       1              -1
5069          RC    .075    .035    .035    2500   .0036
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5070        RX    1000    1001    1002    1680    1890    1908    1909    1910
5071        RY    1100    1021    1021    1020    1020    1021    1021    1100

5072        KK    D252
5073        KM        RETURN DIVERT AT CP252
5074        DR   DI267

5075        KK    R252
5076        KM        ROUTE FLOW FROM CP252 TO CP267
5077        RS       6              -1
5078        RC     .02     .03    .075    5280   .0032
5079        RX    1000    1020    1050    1065    1085    1590    1919    1920
5080        RY    1027    1026    1027    1026    1026    1028    1029    1029
                                          HEC-1 INPUT                                                    PAGE117
1
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5081        KK     267
5082        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 267
5083        BA     .50
5084        LG     .50     .00    5.36     .36     .00
5085        UI     21.     21.     21.     33.     69.     81.     97.    106.    116.    125.
5086        UI    138.    153.    167.    199.    241.    272.    237.    207.    187.    171.
5087        UI    158.    141.    128.    116.    104.     96.     79.     59.     43.     37.
5088        UI     35.     34.     30.     21.     21.     21.     13.      6.      6.      6.
5089        UI      6.      6.      6.      6.      6.      6.      6.      6.      0.      0.
5090        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5091        KK   1I267
5092        KM        ADD HYDROGRAPHS AT CP267
5093        HC       2   37.16

5094        KK   CP267
5095        KM        ADD HYDROGRAPHS AT CP267
5096        HC       2   37.49

5097        KK    D267
5098        KM        DIVERT FROM CP267 TO CP284
5099        DT   DI284
5100        DI       0     5.4     506    3382
5101        DQ       0     5.4     412    1981

5102        KK    R267
5103        KM        ROUTE REMAINDER FROM CP267 TO CP268
5104        RS       3              -1
5105        RC    .075    .035    .035    2350   .0013
5106        RX    1000    1001    1220    1600    1890    1928    1929    1930
5107        RY    1017    1017    1016    1014    1014    1015    1015    1015

5108        KK   CP268
5109        KM        ADD HYDROGRAPHS AT CP268
5110        HC       2   47.97

5111        KK   SR268
5112        KM        STORAGE ROUTE THROUGH CP268
5113        RS       1    STOR       0       0
5114        SV       0    7.04   46.85   92.08  124.01
5115        SQ       0       0     288    3172    8930
5116        SE  1008.3  1009.3    1011    1012  1012.5

5117        KK    R268
5118        KM        ROUTE FLOW FROM CP268 TO CP286
5119        RS       7              -1
5120        RC    .075     .05    .075    6700   .0031
5121        RX    1000    1001    1260    1650    2410    2870    2059    2060
5122        RY    1003    1003    1002    1000    1000    1002    1004    1004
                                          HEC-1 INPUT                                                    PAGE118
1
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5123        KK     286
5124        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 286
5125        BA     .70
5126        LG     .50     .00    5.06     .37     .00
5127        UI     30.     30.     30.     53.    101.    120.    141.    156.    170.    185.
5128        UI    205.    226.    253.    312.    367.    375.    320.    283.    256.    236.
5129        UI    214.    191.    175.    155.    141.    121.     93.     71.     53.     51.
5130        UI     49.     46.     30.     30.     30.     19.      9.      9.      9.      9.
5131        UI      9.      9.      9.      9.      9.      9.      9.      0.      0.      0.
5132        UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5133        KK   1I286
5134        KM        ADD HYDROGRAPHS AT CP286
5135        HC       2   48.67

5136        KK     288
5137        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 288
5138        BA     .22
5139        LG     .50     .00    7.50     .19     .00
5140        UI      8.      8.      8.      8.     27.     31.     37.     41.     46.     49.
5141        UI     53.     58.     64.     69.     82.     98.    112.    100.     88.     79.
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```
5142          UI     72.     67.     62.     56.     51.     46.     42.     39.     32.     24.
5143          UI     18.     15.     15.     14.     14.      9.      8.      8.      8.      3.
5144          UI      3.      3.      3.      3.      3.      3.      3.      3.      3.      3.
5145          UI      3.      3.      0.      0.      0.      0.      0.      0.      0.      0.
5146          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5147          KK    R288
5148          KM        ROUTE FLOW FROM CP288 TO CP286
5149          RS       3              -1
5150          RC    .035    .035    .075    1500   .0033
5151          RX    1000    1001    1002    1040    1055    1280    1849    1850
5152          RY     997     997     997     996     996     998    1000    1000

5153          KK   CP286
5154          KM        ADD HYDROGRAPHS AT CP286
5155          HC       2   48.89

5156          KK    R286
5157          KM        ROUTE FLOW FROM CP286 TO CP287
5158          RS       2              -1
5159          RC    .075    .075    .075    1100   .0027
5160          RX    1000    1001    1210    1510    1950    2360    2529    2530
5161          RY    1000     993     992     990     990     992     993    1000

5162          KK     287
5163          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 287
5164          BA     .23
5165          LG     .50     .00    3.77     .38     .00
5166          UI     15.     15.     39.     63.     77.     89.    103.    121.    158.    194.
5167          UI    165.    138.    120.    102.     87.     74.     56.     36.     27.     25.
5168          UI     18.     15.     11.      5.      5.      5.      5.      5.      5.      5.
5169          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
5170          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5171          KK   1I287
5172          KM        ADD HYDROGRAPHS AT CP287
5173          HC       2   49.12

5174          KK    D266
5175          KM        RETURN DIVERT AT CP266
5176          DR   DI283

5177          KK    R266
5178          KM        ROUTE FLOW FROM CP266 TO CP283
5179          RS      12              -1
5180          RC     .03     .03     .075    5900   .0017
5181          RX    1000    1001    1002    1030    1050    1240    1479    1480
5182          RY    1021    1021    1021    1020    1020    1022    1023    1023

5183          KK     283
5184          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 283
5185          BA     .16
5186          LG     .50     .00    3.52     .47     .00
5187          UI      7.      7.      7.     12.     23.     28.     32.     36.     39.     42.
5188          UI     47.     52.     58.     72.     84.     85.     73.     65.     58.     54.
5189          UI     49.     44.     40.     35.     32.     28.     21.     16.     12.     12.
5190          UI     11.     10.      7.      7.      7.      4.      2.      2.      2.      2.
5191          UI      2.      2.      2.      2.      2.      2.      2.      0.      0.      0.
5192          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5193          KK   CP283
5194          KM        ADD HYDROGRAPHS AT CP283
5195          HC       2   36.25

5196          KK    R283
5197          KM        ROUTE FLOW FROM CP283 TO CP285B
5198          RS       5              -1
5199          RC    .075    .075    .075    1100   .0045
5200          RX    1000    1001    1002    1070    1700    1748    1849    1850
5201          RY    1001    1001    1001    1000    1000    1001    1001    1001

5202          KK    285B
5203          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 285B
5204          BA     .06
5205          LG     .50     .00    3.50     .47     .00
5206          UI      7.     20.     36.     47.     65.     86.     63.     48.     36.     21.
5207          UI     12.      9.      5.      2.      2.      2.      0.      0.      0.      0.
5208          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5209          KK  CP285B
5210          KM        ADD HYDROGRAPHS AT CP285B
5211          HC       2   36.32
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5212          KK  SR285B
5213          KM        STORAGE ROUTE THROUGH CP285B
```

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5214          RS       1    STOR       0       0
5215          SV       0      .7    5.68    7.84    10.0
5216          SQ       0      16     227     435    1468
5217          SE  1005.5  1006.9  1009.5  1010.0  1011.0

5218          KK   D285B
5219          KM        DIVERT FROM CP285B TO CP297
5220          DT   DI297
5221          DI       0      16     227     435
5222          DQ       0      16     227     274

5223          KK   R285B
5224          KM        ROUTE REMAINDER FROM CP285B TO CP285A
5225          RS       7              -1
5226          RC    .075    .035    .035    1072   .0009
5227          RX    1000    1001    1002    1280    1550    1598    1599    1600
5228          RY    1011    1011    1011    1010    1010    1015    1015    1015

5229          KK    D267
5230          KM        RETURN DIVERT AT CP267
5231          DR   DI284

5232          KK    R267
5233          KM        ROUTE FLOW FROM CP267 TO CP284
5234          RS       9              -1
5235          RC    .025    .025     .05    6080   .0008
5236          RX    1000    1001    1002    1040    1060    1190    1740    1940
5237          RY    1013    1013    1013    1012    1012    1014    1016    1017

5238          KK     284
5239          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 284
5240          BA     .52
5241          LG     .50     .00    3.56     .46     .00
5242          UI     21.     21.     21.     33.     71.     84.    100.    110.    120.    130.
5243          UI    143.    158.    173.    204.    247.    282.    248.    216.    195.    178.
5244          UI    165.    148.    133.    122.    108.    100.     84.     63.     47.     38.
5245          UI     37.     35.     33.     21.     21.     21.     15.      7.      7.      7.
5246          UI      7.      7.      7.      7.      7.      7.      7.      7.      0.      0.
5247          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5248          KK   CP284
5249          KM        ADD HYDROGRAPHS AT CP284
5250          HC       2   38.01

5251          KK   SR284
5252          KM        STORAGE ROUTE THROUGH CP284
5253          RS       1    STOR       0       0
5254          SV       0     .18   25.77  34.058   60.22   83.97
5255          SQ       0       0       0       0     457    2222
5256          SE  1007.6    1008    1010  1010.3    1011  1011.5
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5257          KK    R284
5258          KM        ROUTE FLOW FROM CP284 TO CP285A
5259          RS       2              -1
5260          RC    .075    .075    .075    1050   .0076
5261          RX    1000    1001    1002    1020    1440    1448    1449    1450
5262          RY    1050    1009    1009    1008    1008    1009    1009    1050

5263          KK    285A
5264          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 285A
5265          BA     .06
5266          LG     .50     .00    3.50     .47     .00
5267          UI      7.     18.     33.     43.     57.     84.     66.     51.     38.     27.
5268          UI     14.     10.      7.      3.      2.      2.      2.      0.      0.      0.
5269          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5270          KK  1I285A
5271          KM        ADD HYDROGRAPHS AT CP285A
5272          HC       2   38.07

5273          KK  CP285A
5274          KM        ADD HYDROGRAPHS AT CP285A
5275          HC       2   38.29

5276          KK  SR285A
5277          KM        STORAGE ROUTE THROUGH CP285A
5278          RS       1    STOR       0       0
5279          SV       0     .13    4.35    4.40    5.19    6.89   15.46
5280          SQ       0      35     193   196.5   246.5   925.5    3914
5281          SE   999.7  1000.7 1005.47  1005.5  1006.0  1006.5  1007.5

5282          KK   D285A
5283          KM        DIVERT FROM CP285A TO CP297A
5284          DT  1D297A
5285          DI       0      35     193     196     246     925
5286          DQ       0      35     193     196     218     237

5287          KK   R285A
5288          KM        ROUTE REMAINDER FROM CP285A TO CP285
```

```
5289        RS       2                -1
5290        RC     .07      .02     .025     1745    .0029
5291        RX    1000     1001     1530     1540     1550     1560     1570     1610
5292        RY    1010      999      998      996      996      998     1000     1010

5293        KK     285
5294        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 285
5295        BA     .04
5296        LG     .50      .00     3.50      .47      .00
5297        UI      5.      14.      25.      32.      46.      58.      42.      32.      23.      12.
5298        UI      8.       5.       3.       1.       1.       1.       0.       0.       0.       0.
5299        UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5300        KK   CP285
5301        KM        ADD HYDROGRAPHS AT CP285
5302        HC       2   38.33

5303        KK   SR285
5304        KM        STORAGE ROUTE THROUGH CP285
5305        RS       1    STOR       0       0
5306        SV       0     .17    1.61    4.19
5307        SQ       0      82     694    1687
5308        SE  1002.8    1003  1003.5    1004

5309        KK    D285
5310        KM        DIVERT FROM CP285 TO CP297A
5311        DT  2D297A
5312        DI       0      82     694    1687
5313        DQ       0      23     188     462

5314        KK    R285
5315        KM        ROUTE REMAINDER  FROM CP285 TO CP287
5316        RS       2                -1       0
5317        RC    .075     .02    .025    2460    .0061
5318        RX    1000    1001    1530    1540     1550     1560     1570     1610
5319        RY     999     999     998     996      996      998     1000     1010

5320        KK   CP287
5321        KM        ADD HYDROGRAPHS AT CP287
5322        HC       2   49.96

5323        KK   SR287
5324        KM        STORAGE ROUTE THROUGH CP287
5325        RS       1    STOR       0       0
5326        SV       0   14.18   61.23  266.05  356.54  502.54
5327        SQ       0     373    2288    4167    5000    6570
5328        SE     988     990     992     994   994.5  995.23

5329        KK    R287
5330        KM        ROUTE FLOW FROM CP287 TO CP298
5331        RS       4                -1       0
5332        RC     .05     .03     .05    4370   .0023
5333        RX    1000    1200    1380    1500    1890     2090     2330     2560
5334        RY     990     988     986     984     984      986      988      990

5335        KK     298
5336        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 298
5337        BA     .84
5338        LG     .50     .00    3.53     .46     .00
5339        UI     40.     40.     40.    105.    146.     181.     203.     225.     247.     277.
5340        UI    306.    360.    445.    521.    449.     388.     347.     316.     282.     250.
5341        UI    224.    199.    175.    137.    102.      70.      68.      65.      54.      40.
5342        UI     40.     36.     12.     12.     12.      12.      12.      12.      12.      12.
5343        UI     12.     12.      0.      0.      0.       0.       0.       0.       0.       0.
5344        UI      0.      0.      0.      0.      0.       0.       0.       0.       0.       0.
```



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1                                   HEC-1 INPUT

LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5345        KK   CP298
5346        KM        ADD HYDROGRAPHS AT CP298
5347        HC       2   50.80

5348        KK   SR298
5349        KM        STORAGE ROUTE THROUGH CP298
5350        RS       1    STOR       0       0
5351        SV       0     .08    7.03    9.28   32.19   53.97
5352        SQ       0       0       0       0    2881    8075
5353        SE   975.5     976     978   978.3     980     981

5354        KK    R298
5355        KM        ROUTE FLOW FROM CP298 TO CP316
5356        RS       4                -1       0
5357        RC     .05     .03     .05    5280    .003
5358        RX    1000    1100    1210    1410    1830     2030     2140     2310
5359        RY     980     978     976     974     974      976      978      980

5360        KK     316
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5361          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 316
5362          BA     .82
5363          LG     .50      .00     3.57      .42      .00
5364          UI     33.      33.      33.      43.     108.     125.     151.     165.     181.     195.
5365          UI    212.     236.     255.     293.     363.     410.     409.     352.     314.     286.
5366          UI    264.     243.     217.     198.     180.     163.     147.     121.      94.      65.
5367          UI     58.      55.      54.      48.      33.      33.      33.      24.      10.      10.
5368          UI     10.      10.      10.      10.      10.      10.      10.      10.      10.      10.
5369          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
5370          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5371          KK   CP316
5372          KM        ADD HYDROGRAPHS AT CP316
5373          HC       2   50.82

5374          KK    R316
5375          KM        ROUTE FLOW FROM CP316 TO CP334
5376          RS       2              -1       0
5377          RC     .06      .03      .06     3280     .003
5378          RX    1000     1360     1570     1590     1780     2070     2280     2400
5379          RY     966    960.5      961      960      960      962      964      965

5380          KK     334
5381          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 334
5382          BA     .64
5383          LG     .50      .00     3.57      .43      .00
5384          UI     30.      30.      30.      76.     109.     133.     151.     167.     182.     204.
5385          UI    227.     259.     327.     382.     351.     300.     267.     243.     219.     194.
5386          UI    176.     153.     140.     115.      86.      57.      53.      49.      49.      30.
5387          UI     30.      30.      16.       9.       9.       9.       9.       9.       9.       9.
5388          UI      9.       9.       9.       0.       0.       0.       0.       0.       0.       0.
5389          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.
1                                          HEC-1 INPUT                                                    PAGE124

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5390          KK   1I334
5391          KM        ADD HYDROGRAPHS AT CP334
5392          HC       2   51.46

5393          KK    D285
5394          KM        RETURN DIVERT AT CP285
5395          DR  2D297A

5396          KK    R285
5397          KM        ROUTE FLOW FROM CP285 TO CP297A
5398          RS       3              -1       0
5399          RC     .03      .03      .07     3950     .003
5400          RX    1000     1001     1002     1020     1050     1460     1819     1820
5401          RY    1050      997      997      996      996      998      999     1050

5402          KK   D285A
5403          KM        RETURN DIVERT AT 285A
5404          DR  1D297A

5405          KK   R285A
5406          KM        ROUTE FLOW FROM CP285A TO CP297A
5407          RS       5              -1       0
5408          RC     .03      .03      .07     4370    .0041
5409          RX    1000     1001     1002     1020     1050     1460     1819     1820
5410          RY   997.5      997      997      996      996      998      999      999

5411          KK    297A
5412          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 297A
5413          BA     .27
5414          LG     .50      .00     3.50      .47      .00
5415          UI     14.      14.      17.      48.      59.      70.      79.      88.     100.     112.
5416          UI    136.     175.     178.     147.     128.     115.     102.      89.      78.      69.
5417          UI     58.      42.      26.      25.      23.      19.      14.      14.       9.       4.
5418          UI      4.       4.       4.       4.       4.       4.       4.       0.       0.       0.
5419          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5420          KK  1I297A
5421          KM        ADD HYDROGRAPHS AT CP297A
5422          HC       2   38.56

5423          KK  CP297A
5424          KM        ADD HYDROGRAPHS AT CP297A
5425          HC       2   38.6

5426          KK   R297A
5427          KM        ROUTE FLOW FROM CP297A TO CP315
5428          RS      19              -1
5429          RC    .075     .075     .075     5620    .0032
5430          RX    1000     1001     1002     1090     1910     2148     2149     2150
5431          RY    1000      985      985      984      984      985      985     1000
1                                          HEC-1 INPUT                                                    PAGE125

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5432          KK     315
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5433          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 315
5434          BA     .47
5435          LG     .50      .00     3.56      .47      .00
5436          UI     18.      18.      18.      18.      59.      67.      79.      88.      98.     104.
5437          UI    113.     124.     136.     148.     175.     209.     239.     214.     188.     168.
5438          UI    155.     144.     131.     119.     109.      99.      90.      82.      69.      52.
5439          UI     39.      32.      31.      30.      30.      19.      18.      18.      18.       7.
5440          UI      6.       6.       6.       6.       6.       6.       6.       6.       6.       6.
5441          UI      6.       6.       0.       0.       0.       0.       0.       0.       0.       0.
5442          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5443          KK   CP315
5444          KM        ADD HYDROGRAPHS AT CP315
5445          HC       2   39.07

5446          KK    R315
5447          KM        ROUTE FLOW FROM CP315 TO CP334
5448          RS       9              -1
5449          RC     .06      .06      .06     4370    .0046
5450          RX    1000     1001     1002     1130     2070     2208     2209     2210
5451          RY     963      963      963      962      962      963      963      963

5452          KK   CP334
5453          KM        ADD HYDROGRAPHS AT CP334
5454          HC       2   52.20

5455          KK    R334
5456          KM        ROUTE FLOW FROM CP334 TO CP335
5457          RS       3              -1
5458          RC     .04      .02      .04     3450    .0035
5459          RX    1000     1380     1430     1450     1465     1470     1540     2040
5460          RY    1054     1050     1051     1050     1050     1051     1050     1054

5461          KK     335
5462          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 335
5463          BA     .35
5464          LG     .50      .00     4.39      .39      .00
5465          UI     18.      18.      20.      61.      75.      89.     100.     111.     126.     141.
5466          UI    169.     214.     234.     194.     168.     150.     134.     117.     104.      91.
5467          UI     78.      59.      40.      32.      30.      29.      18.      18.      16.       6.
5468          UI      6.       6.       6.       6.       6.       6.       6.       6.       0.       0.
5469          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5470          KK   CP335
5471          KM        ADD HYDROGRAPHS AT CP335
5472          HC       2   52.55

5473          KK    R335
5474          KM        ROUTE FLOW FROM CP335 TO CP336
5475          RS       2              -1
5476          RC     .04      .02      .04     4520    .0022
5477          RX    1000     1070     1170     1210     1270     1290     1410     1450
5478          RY     944      942      940      938      938      940      942      943
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5479          KK     299
5480          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 299
5481          BA     .40
5482          LG     .50      .00     4.62      .40      .00
5483          UI     19.      19.      19.      49.      69.      84.      95.     106.     115.     129.
5484          UI    144.     166.     207.     243.     217.     186.     166.     151.     136.     120.
5485          UI    109.      95.      86.      68.      53.      33.      33.      31.      29.      19.
5486          UI     19.      19.       7.       6.       6.       6.       6.       6.       6.       6.
5487          UI      6.       6.       0.       0.       0.       0.       0.       0.       0.       0.
5488          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5489          KK    R299
5490          KM        ROUTE FLOW FROM CP299 TO CP317
5491          RS      16              -1
5492          RC     .06      .06      .06     5460    .0033
5493          RX    1000     1001     1002     1420     1840     2220     2514     2515
5494          RY     980      980      980      978      978      980      982      982

5495          KK     317
5496          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 317
5497          BA     .57
5498          LG     .50      .00     3.52      .47      .00
5499          UI     22.      22.      22.      25.      73.      84.     100.     111.     122.     130.
5500          UI    142.     157.     171.     190.     226.     272.     292.     252.     223.     202.
5501          UI    186.     172.     155.     140.     130.     115.     106.      93.      73.      59.
5502          UI     40.      40.      37.      37.      29.      22.      22.      22.      13.       7.
5503          UI      7.       7.       7.       7.       7.       7.       7.       7.       7.       7.
5504          UI      7.       0.       0.       0.       0.       0.       0.       0.       0.       0.
5505          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5506          KK   CP317
5507          KM        ADD HYDROGRAPHS AT CP317
5508          HC       2     .97

5509          KK    R317
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5510          KM        ROUTE FLOW FROM CP317 TO CP336
5511          RS      7              -1
5512          RC    .04     .02     .04   12170   .0032
5513          RX   1000    1070    1170    1210    1270    1290    1410    1450
5514          RY    944     942     940     938     938     940     942     943

5515          KK    300
5516          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 300
5517          BA    .39
5518          LG    .50     .00    6.36     .30     .00
5519          UI    22.     22.     39.     80.    101.    118.    132.    150.    172.    208.
5520          UI   271.    278.    227.    197.    176.    152.    133.    114.     97.     72.
5521          UI    46.     39.     37.     29.     22.     22.      9.      7.      7.      7.
5522          UI     7.      7.      7.      7.      0.      0.      0.      0.      0.      0.
5523          UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5524          KK   R300
5525          KM        ROUTE FLOW FROM CP300 TO CP318
5526          RS     21              -1
5527          RC    .05     .05     .05    5620   .0028
5528          RX   1000    1001    1002    1190    1800    2268    2269    2270
5529          RY    975     975     975     974     974     976     976     976

5530          KK    318
5531          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 318
5532          BA    .62
5533          LG    .27     .14    3.66     .39   12.00
5534          UI    43.     43.    119.    181.    222.    254.    299.    354.    475.    537.
5535          UI   428.    363.    313.    264.    222.    183.    124.     76.     71.     58.
5536          UI    43.     36.     13.     13.     13.     13.     13.     13.     13.      0.
5537          UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
5538          UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5539          KK   CP318
5540          KM        ADD HYDROGRAPHS AT CP318
5541          HC      2    1.01

5542          KK   R318
5543          KM        ROUTE FLOW FROM CP318 TO CP337
5544          RS      4              -1
5545          RC    .03     .03     .03    2000   .0029
5546          RX   1000    1001    1280    1440    2180    2420    2469    2470
5547          RY   1063    1063    1062    1061    1061    1062    1063    1063

5548          KK    301
5549          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 301
5550          BA    .30
5551          LG    .24     .28    5.79     .23   10.00
5552          UI    80.    269.    424.    644.    427.    263.    110.     61.     17.     17.
5553          UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
5554          UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5555          KK   R301
5556          KM        ROUTE FLOW FROM CP301 TO CP319
5557          RS     24              -1
5558          RC    .05     .05     .05    6240   .0024
5559          RX   1000    1001    1002    1250    2020    2280    2349    2350
5560          RY    973     973     972     970     970     972     973     973

5561          KK    319
5562          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 319
5563          BA    .54
5564          LG    .23     .18    3.50     .40   14.00
5565          UI    45.     61.    167.    225.    268.    324.    414.    570.    471.    383.
5566          UI   317.    259.    208.    140.     80.     74.     48.     44.     14.     14.
5567          UI    14.     14.     14.      0.      0.      0.      0.      0.      0.      0.
5568          UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5569          KK   CP319
5570          KM        ADD HYDROGRAPHS AT CP319
5571          HC      2     .84

5572          KK   R319
5573          KM        ROUTE FLOW FROM CP319 TO CP337
5574          RS      6              -1
5575          RC    .03     .03     .03    2400   .0027
5576          RX   1000    1001    1280    1440    2180    2420    2469    2470
5577          RY   1063    1063    1062    1061    1061    1062    1063    1063

5578          KK    337
5579          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 337
5580          BA    .49
5581          LG    .19     .30    3.60     .33   23.50
5582          UI    68.    238.    378.    519.    803.    624.    455.    319.    156.    101.
5583          UI    61.     21.     21.     21.      0.      0.      0.      0.      0.      0.
```

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5584          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5585          KK   CP337
5586          KM        ADD HYDROGRAPHS AT CP337
5587          HC       3    2.34

5588          KK   SR337
5589          KM        STORAGE ROUTE THROUGH CP337
5590          RS       1    STOR       0       0
5591          SV       0     .06    3.14   15.08   45.28  110.59  221.78  290.44  449.81
5592          SQ       0      10     100     250     370     380     383     383    8928
5593          SE   951.3     952     954     956     958     960     962   962.8     964

5594          KK    D337
5595          KM        DIVERT FLOW IN 96" STORM DRAIN TO AGUA FRIA RIVER AT CP367
5596          DT   DI367
5597          DI       0      10     100     250     370     380     383     383    8928
5598          DQ       0      10     100     250     370     380     383     383     383

5599          KK    R337
5600          KM        ROUTE FLOW FROM CP337 TO CP336
5601          RS      11              -1
5602          RC     .03     .03     .03    9830   .0034
5603          RX    1000    1080    1130    1240    1660    1770    1810    1830
5604          RY    1057    1056    1054    1052    1052    1054    1056    1057

5605          KK   1I336
5606          KM        ADD HYDROGRAPHS AT CP336
5607          HC       2    3.31

5608          KK   2I336
5609          KM        ADD HYDROGRAPHS AT CP336
5610          HC       2   55.86
1                                   HEC-1 INPUT                                          PAGE129

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5611          KK     336
5612          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 336
5613          BA    1.28
5614          LG     .43     .05    3.50     .43   13.50
5615          UI     32.     32.     32.     32.     32.     32.     98.    107.    124.    135.
5616          UI    150.    159.    171.    179.    188.    197.    208.    222.    237.    250.
5617          UI    264.    291.    330.    380.    408.    429.    386.    352.    326.    305.
5618          UI    288.    272.    260.    248.    230.    215.    203.    193.    181.    168.
5619          UI    159.    150.    135.    124.     94.     93.     63.     57.     57.     56.
5620          UI     53.     53.     53.     40.     32.     32.     32.     32.     32.     20.
5621          UI     10.     10.     10.     10.     10.     10.     10.     10.     10.     10.
5622          UI     10.     10.     10.     10.     10.     10.     10.     10.     10.      0.
5623          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
5624          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5625          KK   CP336
5626          KM        ADD HYDROGRAPHS AT CP336
5627          HC       2   57.14

5628          KK   SR336
5629          KM        STORAGE ROUTE THROUGH CP336
5630          RS       1    STOR       0       0
5631          SV       0     .54    1.72    4.49    5.79   15.91   32.49
5632          SQ       0    1400    2075    2335    2414    2800    8534
5633          SE   922.3     930     932   932.8     933     934     935

5634          KK    336A
5635          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 336A
5636          BA     .37
5637          LG     .51     .02    3.86     .44    2.00
5638          UI      9.      9.      9.      9.      9.      9.     25.     30.     34.     37.
5639          UI     42.     44.     47.     50.     52.     55.     58.     61.     65.     69.
5640          UI     72.     79.     88.    101.    107.    122.    116.    105.     97.     90.
5641          UI     85.     80.     76.     73.     69.     64.     60.     57.     54.     51.
5642          UI     47.     45.     42.     38.     35.     27.     26.     18.     16.     16.
5643          UI     16.     15.     15.     15.     12.      9.      9.      9.      9.      9.
5644          UI      8.      3.      3.      3.      3.      3.      3.      3.      3.      3.
5645          UI      3.      3.      3.      3.      3.      3.      3.      3.      3.      3.
5646          UI      3.      0.      0.      0.      0.      0.      0.      0.      0.      0.
5647          UI      0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5648          KK  CP336A
5649          KM        ADD HYDROGRAPHS AT CP336A
5650          HC       2   57.51

5651          KK   R336A
5652          KM        ROUTE FLOW FROM CP336A TO CP364A
5653          RS       1              -1
5654          RC     .03     .02     .03    4210   .0056
5655          RX    1000    1020    1025    1030    1070    1100    1180    1310
5656          RY    1050    1030    1028    1026    1026  1028.5    1027    1050
1                                   HEC-1 INPUT                                          PAGE130

LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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5657          KK    364A
5658          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 364A
5659          BA     .07
5660          LG     .35      .35     3.50      .28      .00
5661          UI     10.      33.      53.      71.     112.      90.      66.      47.      24.      15.
5662          UI     10.       3.       3.       3.       0.       0.       0.       0.       0.       0.
5663          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5664          KK   1I364A
5665          KM        ADD HYDROGRAPHS AT CP364A
5666          HC       2   57.58

5667          KK    336B
5668          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 336B
5669          BA     .08
5670          LG     .35      .35     4.07      .36      .00
5671          UI     83.     262.     198.      57.      13.       0.       0.       0.       0.       0.
5672          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5673          KK   SR336B
5674          KM        STORAGE ROUTE THROUGH CP336B AT S.P.R.R.
5675          RS       1    STOR        0        0
5676          SV       0    2.37     5.42     7.76
5677          SQ       0     110      169     1249
5678          SE   921.3     924      925    925.5

5679          KK    R336B
5680          KM        ROUTE FLOW FROM CP336B TO CP364A
5681          RS       2               -1        0
5682          RC    .025    .025     .025     1250    .0048
5683          RX    1000    1001     1015     1030     1340     1380     1430     1510
5684          RY     921     921      920      918      918      921      919      920

5685          KK   CP364A
5686          KO       3
5687          KM        ADD HYDROGRAPHS AT CP364A
5688          HC       2   57.66

5689          KK    D364A
5690          KM        DIVERT FROM CP364A TO CP363
5691          DT    DI363
5692          DI       0     112      925     3216
5693          DQ       0      12      325     1166

5694          KK    R364A
5695          KM        ROUTE REMAINDER FROM CP364A TO CP364
5696          RS       5               -1
5697          RC    .075    .035     .035     3400    .0015
5698          RX    1000    1001     1270     1800     2070     2088     2089     2090
5699          RY     917     917      916      914      914      915      915      915
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5700          KK     365
5701          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 365
5702          BA     .38
5703          LG     .50      .00     4.11      .73      .00
5704          UI     22.      22.      37.      78.      98.     114.     128.     145.     167.     200.
5705          UI    261.     272.     222.     192.     172.     148.     130.     111.      96.      71.
5706          UI     47.      38.      36.      29.      22.      22.       9.       7.       7.       7.
5707          UI      7.       7.       7.       7.       0.       0.       0.       0.       0.       0.
5708          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5709          KK     R365
5710          KM        ROUTE FLOW FROM CP365 TO CP364
5711          RS      26               -1
5712          RC    .035    .035     .075     7020    .0017
5713          RX    1000    1001     1015     1140     1560     1700     2009     2010
5714          RY     915     915      914    913.5    913.5      914      915      915

5715          KK     364
5716          KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 364
5717          BA     .78
5718          LG     .50      .00     4.22      .43      .00
5719          UI     37.      37.      37.      99.     136.     169.     190.     210.     230.     258.
5720          UI    286.     338.     418.     484.     415.     359.     321.     293.     261.     231.
5721          UI    207.     184.     161.     125.      92.      65.      63.      61.      49.      37.
5722          UI     37.      31.      11.      11.      11.      11.      11.      11.      11.      11.
5723          UI     11.      11.       0.       0.       0.       0.       0.       0.       0.       0.
5724          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5725          KK    1I364
5726          KM        ADD HYDROGRAPHS AT CP364
5727          HC       2    1.16

5728          KK    CP364
5729          KM        ADD HYDROGRAPHS AT CP364
5730          HC       2   58.82

5731          KK    SR364
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5732        KM        STORAGE ROUTE CP364 BEHIND BUCKEYE CANAL
5733        RS      1    STOR       0       0
5734        SV      0     .91    4.65    6.88   14.06   22.19   33.52
5735        SQ      0       0       0      21     506    4186    7154
5736        SE    908     910     911   911.3     912   912.5   913.0

5737        KK    D364
5738        KM        DIVERT FROM CP364 TO GILA RIVER
5739        DT  DIGILA
5740        DI      0      21     506    4186
5741        DQ      0      21     163     597
                                     HEC-1 INPUT                                          PAGE132
1
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5742        KK    R364
5743        KM        ROUTE REMAINDER FROM CP364 TO CP363
5744        RS     16              -1
5745        RC   .075     .06    .075    5770   .0016
5746        RX   1000    1001    1040    1200    2040    2180    2239    2240
5747        RY    950     907     906     905     905     906     907     950

5748        KK   D364A
5749        KM        RETURN DIVERT AT CP364A
5750        DR   DI363

5751        KK   R364A
5752        KM        ROUTE FLOW FROM CP364A TO CP363
5753        RS     17              -1
5754        RC   .075     .06    .075    5460   .0020
5755        RX   1000    1001    1040    1200    2040    2180    2239    2240
5756        RY    907     907     906     905     905     906     907     907

5757        KK     363
5758        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 363
5759        BA    .63
5760        LG    .50     .00    3.71     .46     .00
5761        UI    23.     23.     23.     23.     68.     84.     98.    112.    122.    132.
5762        UI   142.    154.    170.    183.    207.    252.    286.    303.    262.    234.
5763        UI   213.    196.    183.    166.    152.    139.    127.    116.    106.     90.
5764        UI    67.     53.     41.     41.     38.     38.     28.     23.     23.     23.
5765        UI    15.      7.      7.      7.      7.      7.      7.      7.      7.      7.
5766        UI     7.      7.      7.      7.      0.      0.      0.      0.      0.      0.
5767        UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5768        KK   1I363
5769        KM        ADD HYDROGRAPHS AT CP363
5770        HC      2   58.29

5771        KK   2I363
5772        KM        ADD HYDROGRAPHS AT CP363
5773        HC      2   59.45

5774        KK     314
5775        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 314
5776        BA    .42
5777        LG    .50     .00    3.50     .47     .00
5778        UI    20.     20.     20.     51.     72.     89.    101.    111.    122.    136.
5779        UI   151.    176.    219.    257.    227.    195.    174.    158.    142.    126.
5780        UI   114.    100.     90.     71.     54.     35.     34.     32.     29.     20.
5781        UI    20.     20.      7.      6.      6.      6.      6.      6.      6.      6.
5782        UI     6.      6.      0.      0.      0.      0.      0.      0.      0.      0.
5783        UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.
                                     HEC-1 INPUT                                          PAGE133
1
LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10


5784        KK    R314
5785        KM        ROUTE FLOW FROM CP314 TO CP333
5786        RS     25              -1
5787        RC   .075    .075    .075    5770   .0040
5788        RX   1000    1001    1200    1690    2100    2788    2789    2790
5789        RY    967     967     966     964     964     966     966     966

5790        KK     333
5791        KM        RUNOFF HYDROGRAPH FROM SUB-BASIN 333
5792        BA    .58
5793        LG    .50     .00    3.50     .47     .00
5794        UI    26.     26.     26.     59.     93.    112.    128.    143.    156.    172.
5795        UI   192.    212.    256.    316.    336.    283.    249.    224.    206.    184.
5796        UI   164.    149.    132.    119.     95.     75.     46.     46.     43.     43.
5797        UI    27.     26.     26.     17.      8.      8.      8.      8.      8.      8.
5798        UI     8.      8.      8.      8.      0.      0.      0.      0.      0.      0.
5799        UI     0.      0.      0.      0.      0.      0.      0.      0.      0.      0.

5800        KK   CP333
5801        KM        ADD HYDROGRAPHS AT CP333
5802        HC      2     1.0

5803        KK    R333
5804        KM        ROUTE FLOW FROM CP333 TO  CP348A
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5805          RS       8                -1
5806          RC     .06      .04      .06     2700    .0048
5807          RX    1000     1001     1005     1600     2210     2560     2900     3020
5808          RY     947      947      946      944      944      946      948      949

5809          KK    348A
5810          KM         RUNOFF HYDROGRAPH FROM SUB-BASIN 348A
5811          BA     .22
5812          LG     .50      .00     3.62      .46      .00
5813          UI     17.      18.      61.      81.      97.     115.     138.     190.     211.     164.
5814          UI    138.     114.      95.      77.      52.      30.      28.      20.      17.       8.
5815          UI      5.       5.       5.       5.       5.       0.       0.       0.       0.       0.
5816          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5817          KK   CP348A
5818          KM         ADD HYDROGRAPHS AT CP348A
5819          HC       2    1.22

5820          KK   R348A
5821          KM         ROUTE FLOW FROM CP348A TO CP348B
5822          RS       4                -1
5823          RC     .03      .03     .075     4050    .0077
5824          RX    1000     1005     1010     1040     1100     1370     1450     1470
5825          RY  1032.5   1032.5     1032     1030     1030     1032     1034   1034.5
```



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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5826          KK    348B
5827          KM         RUNOFF FROM SUBBASIN 348B
5828          BA     .66
5829          LG     .49      .04     3.59      .45      .00
5830          UI     24.      24.      24.      24.      60.      82.      94.     110.     120.     130.
5831          UI    138.     150.     163.     178.     192.     223.     268.     303.     293.     257.
5832          UI    230.     211.     196.     184.     166.     153.     140.     128.     117.     109.
5833          UI     92.      72.      60.      42.      42.      39.      39.      36.      24.      24.
5834          UI     24.      24.       9.       7.       7.       7.       7.       7.       7.       7.
5835          UI      7.       7.       7.       7.       7.       7.       0.       0.       0.       0.
5836          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5837          KK   CP348B
5838          KM         ADD HYDROGRAPHS AT CP348B
5839          HC       2    1.88

5840          KK   SR348B
5841          KM         STORAGE ROUTE BEHIND S.P.R.R. AT CP348B
5842          RS       1     STOR        0        0
5843          SV       0      .08     8.33    14.16    23.37
5844          SQ       0       50      285      778     4586
5845          SE   908.5    910.1      914      915      916

5846          KK   R348B
5847          KM         ROUTE FLOW FROM CP348B TO CP363
5848          RS      10                -1        0
5849          RC    .075      .06     .075     3100    .0029
5850          RX    1000     1001     1040     1200     2040     2180     2239     2240
5851          RY     907      907      906      905      905      906      907      907

5852          KK   3I363
5853          KM         ADD HYDROGRAPHS AT CP363
5854          HC       2   61.33

5855          KK     348
5856          KM         RUNOFF HYDROGRAPH FROM SUB-BASIN 348
5857          BA     .34
5858          LG     .50      .00     3.70      .45      .00
5859          UI     20.      20.      35.      71.      90.     104.     117.     133.     153.     187.
5860          UI    244.     239.     196.     171.     152.     131.     114.      98.      83.      60.
5861          UI     37.      34.      33.      22.      20.      18.       6.       6.       6.       6.
5862          UI      6.       6.       6.       6.       0.       0.       0.       0.       0.       0.
5863          UI      0.       0.       0.       0.       0.       0.       0.       0.       0.       0.

5864          KK   SR348
5865          KM         STORAGE ROUTE BEHIND SOUTHERN PACIFIC RAILROAD
5866          RS       1     STOR        0        0
5867          SV       0        0      .72     2.12    15.51    22.03
5868          SQ       0       .5        5        9     3101     5661
5869          SE   906.6    907.6      908    908.3    909.6      910
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LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

5870          KK     D348
5871          KM         DIVERT FROM CP348 TO CP347
5872          DT    DI347
5873          DI       0     3083     5640
5874          DQ       0        0      165

5875          KK     R348
5876          KM         ROUTE REMAINDER FROM CP348 TO CP363
5877          RS       8                -1
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```
5878          RC    .075     .06    .075    1600   .0025
5879          RX    1000    1001    1040    1200    2040    2180    2239    2240
5880          RY     907     907     906     905     905     906     907     907

5881          KK   CP363
5882          KM        ADD HYDROGRAPHS AT CP363
5883          HC       2   61.67
5884          ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

  NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

   28          1
               V
               V
   36        RCP1
               .
               .
   43          .           2
               .           .
               .           .
   52         CP2............
               V
               V
   55        RCP2
               .
               .
   62          .          3A
               .           V
               .           V
   69          .       RCP3A
               .           .
               .           .
   76          .           .           3
               .           .           .
               .           .           .
   83          .       I1CP3............
               .           .
               .           .
   86         CP3............
               .
               .
   93          .------->    DCP3
   89         CP3
               V
               V
   96        RCP3
               .
               .
  103          .           4
               .           .
               .           .
  110          .           .           5
               .           .           .
               .           .           .
  117          .         CP5............
               .           V
               .           V
  120          .        RCP5
               .           .
               .           .
  127          .           .           6
               .           .           .
               .           .           .
  133          .       I1CP7............
               .           .
               .           .
  136          .           .           7
               .           .           .
               .           .           .
  142          .         CP7............
               .           V
               .           V
  145          .        RCP7
               .           .
               .           .
  152          .           .           9
               .           .           .
               .           .           .
  159          .       I1CP9............
               .           .
               .           .
  162          .           .           8
               .           .           .
               .           .           .
  169          .         CP9............
               .           V
               .           V
  172          .        RCP9
               .           .
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                .           .
179             .           .          10
                .           .           .
                .           .           .
188             .      I1CP10............
                .           .
                .           .
191          CP10............
                .
                .
197             .-------->  DCP10
194          CP10
                V
                V
200         RCP10
                .
                .
207             .          12
                .           .
                .           .
215          CP12............
                V
                V
218         RCP12
                .
                .
225             .          11
                .           V
                .           V
233             .       RCP11
                .           .
                .           .
240             .           .          13
                .           .           .
                .           .           .
248             .       CP13............
                .           V
                .           V
251             .       RCP13
                .           .
                .           .
258             .           .          14
                .           .           V
                .           .           V
265             .           .       RCP14
                .           .           .
                .           .           .
272             .           .           .          15
                .           .           .           .
                .           .           .           .
280             .           .     I1CP15............
                .           .           .
                .           .           .
283             .           .           .          16
                .           .           .           V
                .           .           .           V
291             .           .           .       SR16
                .           .           .           .
                .           .           .           .
297             .           .       CP15............
                .           .           V
                .           .           V
300             .           .      RCP15
                .           .           .
                .           .           .
307             .           .           .          17
                .           .           .           .
                .           .           .           .
315             .           .     I1CP17............
                .           .           .
                .           .           .
318             .       CP17............
                .           V
                .           V
321             .       RCP17
                .           .
                .           .
328             .           .          WT3
                .           .           .
                .           .           .
336             .      I1CWT3............
                .           .
                .           .
339          CPWT3............
                V
                V
342         SRWT3
                .
                .
355             .         101
                .           .
                .           .
362             .           .        102A
```

```
                .          .
                .          .
370             .     CP101.....
                .        V
                .        V
373             .      R101
                .        .
                .        .
379             .        .        102
                .        .          .
                .        .          .
387             .     CP102.....
                .        V
                .        V
390             .      R102
                .        .
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556                 .-------> 1D121A
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559              R112
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649              R113
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688          R122
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696                 .<-------  DI119
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697              R111
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738                          CP119A...........
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770                                      .<-------  DI120
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771                                 R112
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780                          R120
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816                                        .     R119A
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854                          D130
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930          .          .          .      R121A
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959          .          .          .-------->  DI145
957          .          .       D131
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962          .          .       R131
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978          .          .      CP132............
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981          .          .       R132
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1013         .       R133
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1021         .          .          .<-------  DI134
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1199          R100A
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1213          CP100............
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1337           CP125............
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2503                                 2I180............
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2509             .         .         .         .      D133
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2518             .         .         .         .         .         147
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2534             .         .         .         .         .       R134
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3839                  .          .          217
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3849                  .       CP217............
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3854                  .          .-------> DI218
3852                  .        D217
                      .          V
                      .          V
3857                  .        R217
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3863                  .          .          235
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3874                  .       1I235............
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3877             CP235............
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3882                  .-------> 2D248
3880             D235
                    V
                    V
3885             R235
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3893                  .          .<------- DI208
3891                  .        D191
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                 .         .         .         .         V
                 .         .         .         .         V
3894             .         .         .         .      R191
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3900             .         .         .         .         .        208
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3911             .         .         .         .     1I208............
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                 .         .         .         .         .
3916             .         .         .         .         .          .<-------   2D208
3914             .         .         .         .         .      D207
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                 .         .         .         .         .          V
3917             .         .         .         .         .      R207
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3923             .         .         .         .     CP208............
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3928             .         .         .         .         .------->   1D219
3926             .         .         .         .      D208
                 .         .         .         .         .
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3933             .         .         .         .         .------->  DI209A
3931             .         .         .         .      D208
                 .         .         .         .         V
                 .         .         .         .         V
3936             .         .         .         .      R208
                 .         .         .         .         .
                 .         .         .         .         .
3942             .         .         .         .         .        218
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3953             .         .         .         .     1I218............
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3958             .         .         .         .         .          .<-------   DI218
3956             .         .         .         .         .      D217
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                 .         .         .         .         .          V
3959             .         .         .         .         .      R217
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3965             .         .         .         .     CP218............
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3970             .         .         .         .         .------->   DI237
3968             .         .         .         .      D218
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3975             .         .         .         .         .------->   2D219
3973             .         .         .         .      D218
                 .         .         .         .         V
                 .         .         .         .         V
3978             .         .         .         .      R218
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3984             .         .         .         .         .        236
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3995             .         .         .         .     1I236............
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3998             .         .         .     CP236............
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4003             .         .         .         .------->   DI249
4001             .         .         .      D236
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4008             .         .         .         .------->   1D250
4006             .         .         .      D236
                 .         .         .         V
                 .         .         .         V
4011             .         .         .      R236
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4017             .         .         .         .      209A
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4029             .         .         .         .         .          .<-------  DI209A
4027             .         .         .         .         .      D208
                 .         .         .         .         .          V
                 .         .         .         .         .          V
4030             .         .         .         .         .      R208
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4036             .         .         .         .     CP209A............
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4041             .         .         .         .         .------->   1D220
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4039      .   .   .   .   D209A
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4046                       D209A
4044                         V
                             V
4049                       R209A
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4057                         .     D208
4055                         .       V
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4058                         .     R208
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4064                         .       .        219
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4074                         .     1I219........
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4077                       2I219.......
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4082                         .       .<------- 2D219
4080                         .     D218
                             .       V
4083                         .       V
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4089                       CP219.......
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4094                         .-------> DI238
4092                       D219
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4099                         .-------> 2D220
4097                       D219
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                             V
4102                       R219
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4110                         .       .<------- DI237
4108                         .     D218
                             .       V
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4111                         .     R218
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4117                         .       .        237
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4134              CP237.......
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4139                .-------> 2D250
4137              D237
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4144                .-------> 1D250A
4142              D237
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                    V
4147              R237
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4155                .       .<------- DI209
4153                .     1D192
                    .       V
                    .       V
4156                .     R192
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4162                .       .        209
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4172                .     1I209........
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4177                .       .       .<------- 2D209
4175                .       .     D209A
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4178                                            R209A
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4184                                       CP209...........
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4189                                               .-------> 1D221
4187                                        D209
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4194                                               .-------> 2D210
4192                                        D209
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4197                                        R209
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4205                                               .<------- 1D220
4203                                            D209A
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4206                                            R209A
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4222                                            1I220...........
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4225                                       2I220...........
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4230                                               .<------- 2D220
4228                                           D219
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4231                                           R219
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4237                                       CP220...........
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4242                                               .-------> DI239
4240                                        D220
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4247                                               .-------> 2D221
4245                                        D220
                                                   V
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4250                                        R220
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4258                                               .<------- DI238
4256                                           D219
                                                   V
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4259                                           R219
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4265                                               .        238
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4275                                            1I238...........
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4278                                       2I238...........
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4281                                  CP238...........
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4286                                               .-------> 2D250A
4284                                        D238
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4291                                               .-------> 1D251
4289                                        D238
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4294                                        R238
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4302                                               .<------- DI210
4300                                       2D192
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4303                                        R192
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4309                                               .        210
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4319                    1I210............
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4324                                 D209
4322                                    V
                                        V
4325                                 R209
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4331                    CP210............
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                            V
4334                     R210
                                         .<-------   1D221
4342                                 D209
4340                                    V
                                        V
4343                                 R209
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4349                                    .          221
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4359                                 1I221............
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4362                     2I221............
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4367                                 D220
4365                                    V
                                        V
4368                                 R220
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4374                     CP221............
                            V
                            V
4377                      R221
                                         .<-------   DI239
4385                                 D220
4383                                    V
                                        V
4386                                 R220
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4392                                    .          239
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4402                                 1I239............
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4405                     2I239............
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4408                CP239............
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4413                D239
4411                   V
                       V
4416                R239
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4422                        240
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4432                CP240............
                       V
                       V
4435                R240
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4441                        213
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4449                        R213
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4455                                    .          212
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4469                                    .          D193
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4470                                                            R193
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4476                                                     1I212.........
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4479                                                        SR212
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4485                                            CP212.........
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                                                    V
4488                                             R212
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4494                                                   211
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4504                                                   R211
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4521                                                     1I221A.........
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4524                                                     SR221A
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4530                                            CP221A.........
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4533                                             R221A
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4551                                            CP222.........
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4554                                             R222
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4562                                                   .<-------   2D226
4560                                                 D202
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4563                                                 R202
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4576                                                     1I226.........
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4581                                                                   .<-------   1D226
4579                                                                D196
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4582                                                     CP226.........
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4585                                                     SR226
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4599                                                                   .<-------   1D201
4597                                                                D195
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4600                                                                R195
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4613                                                                CP201.........
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4616                                                                R201
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4630                                                                1I223.........
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4633                                  CP223............
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4638                                   D223
4636                                      V
                                          V
4641                                   R223
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4647                                                .
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4654                                  CP224............
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                                          V
4657                                   R224
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4663                                                .
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4671                                  1I241............

4674                            2I241............

4677                     CP241............
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4680                     SR241
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4686                      R241

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4712                                R253A

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4736                                R247

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4753                                                   V
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4756                                                R234

4762                                         1I248............

4765                                2I248............

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4770                                         D235
4768                                            V
                                                V
4771                                         R235

4777                                CP248............

4782                                    .-------> DI262
4780                                 D248
                                        V
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4785                            R248
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4791                                   249
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4802                            1I249.....
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4807                                   .<-------   DI249
4805                                D236
                                      V
                                      V
4808                                R236
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4814                            CP249.....
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4819                               .------->   DI264
4817                            D249
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                                   V
4822                            R249
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4830                                   .<-------   1D250
4828                                D236
                                      V
                                      V
4831                                R236
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4837                                   .         250
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4847                                1I250.....
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4852                                   .           .<-------   2D250
4850                                   .         D237
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4853                                   .         R237
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4862                            CP250.....
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4865                            R250
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4873                                   .<-------  1D250A
4871                                D237
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4874                                R237
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4880                                   .         250A
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4891                               1I250A.....
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4896                                   .           .<-------  2D250A
4894                                   .         D238
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4897                                   .         R238
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4903                               2I250A.....
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4906                            CP250A.....
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4911                               .------->  DI265A
4909                            D250A
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4916                               .------->   1D266
4914                            D250A
                                   V
                                   V
4919                            R250A
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4927    .    .    .    .    .          D238
4925    .    .    .    .    .             V
                                          V
4928    .    .    .    .    .          R238
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4934    .    .    .    .    .             .                .
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4944    .    .    .    .    .          1I251................
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4949    .    .    .    .    .             .             D239
4947    .    .    .    .    .             .                V
                                          .                V
4950    .    .    .    .    .             .             R239
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4956    .    .    .    .    .          2I251................
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4959    .    .    .    .    CP251..........
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4964    .    .    .    .    .-------->   2D266
4962    .    .    .    .    D251
                            V
4967    .    .    .    .    V
                            R251
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4973    .    .    .    .    .          252
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4983    .    .    .    .    CP252..........
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4988    .    .    .    .    .-------->   DI267
4986    .    .    .    .    D252
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4991    .    .    .    .    V
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4997    .    .    .    CP253.............
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5000    .    .    .    V
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5006    .    .    .    V
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5028    .    .    .    .    .<-------   1D266
5026    .    .    .    .    D250A
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5029    .    .    .    .    V
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5035    .    .    .    .    .          266
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5046    .    .    .    .    1I266..........
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5051    .    .    .    .    .            .<-------   2D266
5049    .    .    .    .    .         D251
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5052    .    .    .    .    .            V
                            .         R251
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5058    .    .    .    .    CP266..........
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5063    .    .    .    .    .-------->   DI283
5061    .    .    .    .    D266
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5066    .    .    .    .    V
                            R266
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5074    .    .    .    .    .            .<-------   DI267
5072    .    .    .    .    .         D252
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5075                                            R252
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5081                                               .            .
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5097                                           V
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5220                                       .         D285B
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5229                                       .            .            V
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5446                                        R315
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5555                                                  .          R301
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5561                                                  .          .          319
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5572                                                  .          R319
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5578                                                  .          .          337
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                                              .          .          .          .
5585                                                  CP337.......................
                                              .          V
                                              .          V
5588                                                  SR337
                                              .          .
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5596                                                  .-------> DI367
5594                                            D337
                                                  V
                                                  V
5599                                            R337
                                                  .
                                                  .
5605                                     1I336............
                                                  .
                                                  .
5608                              2I336............
                                     .
                                     .
5611                                        336
                                                  .
                                                  .
5625                              CP336............
                                     V
                                     V
5628                              SR336
                                     .
                                     .
5634                                       336A
                                                  .
                                                  .
5648                             CP336A............
                                     V
                                     V
5651                              R336A
                                     .
                                     .
5657                                       364A
                                                  .
                                                  .
5664                             1I364A............
                                     .
                                     .
5667                                       336B
                                                  V
                                                  V
5673                                     SR336B
                                                  V
                                                  V
5679                                      R336B
                                                  .
                                                  .
5685                             CP364A............
                                     .
                                     .
5691                                 .-------> DI363
5689                              D364A
                                     V
                                     V
5694                              R364A
                                     .
                                     .
5700                                        365
                                                  V
                                                  V
5709                                       R365
                                                  .
                                                  .
5715                                                      364
                                                            .
                                                            .
5725                                     1I364............
                                                  .
                                                  .
5728                              CP364............
                                     V
                                     V
5731                              SR364
                                     .
                                     .
5739                                 .-------> DIGILA
5737                               D364
                                     V
                                     V
5742                               R364
                                     .
                                     .
5750                                          .<-------  DI363
5748                                     D364A
                                                  V
                                                  V
5751                                     R364A
                                                  .
                                                  .
5757                                                      363
                                                            .
                                                            .
5768                                     1I363............
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                .         .         .         .         .
                .         .         .         .         .
 5771           .         .         .     2I363...........
                .         .         .         .
                .         .         .         .
 5774           .         .         .         .       314
                .         .         .         .         V
                .         .         .         .         V
 5784           .         .         .         .      R314
                .         .         .         .         .
                .         .         .         .         .
 5790           .         .         .         .         .        333
                .         .         .         .         .          .
                .         .         .         .         .          .
 5800           .         .         .         .     CP333...........
                .         .         .         .         V
                .         .         .         .         V
 5803           .         .         .         .      R333
                .         .         .         .         .
                .         .         .         .         .
 5809           .         .         .         .         .       348A
                .         .         .         .         .          .
                .         .         .         .         .          .
 5817           .         .         .         .    CP348A...........
                .         .         .         .         V
                .         .         .         .         V
 5820           .         .         .         .     R348A
                .         .         .         .         .
                .         .         .         .         .
 5826           .         .         .         .         .       348B
                .         .         .         .         .          .
                .         .         .         .         .          .
 5837           .         .         .         .    CP348B...........
                .         .         .         .         V
                .         .         .         .         V
 5840           .         .         .         .    SR348B
                .         .         .         .         V
                .         .         .         .         V
 5846           .         .         .         .     R348B
                .         .         .         .         .
                .         .         .         .         .
 5852           .         .         .     3I363...........
                .         .         .         .
                .         .         .         .
 5855           .         .         .         .       348
                .         .         .         .         V
                .         .         .         .         V
 5864           .         .         .         .     SR348
                .         .         .         .         .
                .         .         .         .         .
 5872           .         .         .         .         .-------->   DI347
 5870           .         .         .         .      D348
                .         .         .         .         V
                .         .         .         .         V
 5875           .         .         .         .      R348
                .         .         .         .         .
                .         .         .         .         .
 5881           .         .         .     CP363...........

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************
*************************************
 *                                   *                                                  *
 *                                   *                                                  *
 *   FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *                                               *   U.S. ARMY CORPS OF ENGINEERS
 *                                   *                                                  *
 *            SEPTEMBER 1990         *                                                  *   HYDROLOGIC ENGINEERING CENTER
 *                                   *                                                  *
 *             VERSION 4.0           *                                                  *         609 SECOND STREET
 *                                   *                                                  *
 *                                   *                                                  *      DAVIS, CALIFORNIA 95616
 *                                   *                                                  *
 *  RUN DATE  10/15/1998  TIME  09:29:23 *                                              *          (916) 756-1104
 *                                   *                                                  *
 *                                   *                                                  *
 *****************************************
*************************************
```

Filename:bullab3.dat
Purpose: Hydrology for Bullard Wash Channel, FCDMC, September, 1998

This HEC-1 model is for Bullard Wash Channel design. It is developed by modifying White Tanks/Agua Fria ADMS HEC-1 model. The modification is due to the recently completed Dysart Drain Improvement project(FCDMC) which allows Dysart Drain to completely intercept flows from north of Dysart Drain.

```
11 IO          OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE

   IT          HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1   0  STARTING DATE
                    ITIME       0000  STARTING TIME
                       NQ        300  NUMBER OF HYDROGRAPH ORDINATES
                  NDDATE      2   0  ENDING DATE
                  NDTIME       0055  ENDING TIME
                   ICENT         19  CENTURY MARK

              COMPUTATION INTERVAL     .08 HOURS
                   TOTAL TIME BASE   24.92 HOURS

        ENGLISH UNITS
             DRAINAGE AREA          SQUARE MILES
             PRECIPITATION DEPTH    INCHES
             LENGTH, ELEVATION      FEET
             FLOW                   CUBIC FEET PER SECOND
             STORAGE VOLUME         ACRE-FEET
             SURFACE AREA           ACRES
             TEMPERATURE            DEGREES FAHRENHEIT

13 JD          INDEX STORM NO. 1
                     STRM       4.03  PRECIPITATION DEPTH
                     TRDA        .00  TRANSPOSITION DRAINAGE AREA

14 PI            PRECIPITATION PATTERN
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
                   .01       .01       .01       .01       .01       .01       .01       .01       .03       .03
                   .03       .09       .09       .09       .01       .01       .01       .01       .01       .01
                   .01       .01       .01       .01       .01       .01       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00

24 JD          INDEX STORM NO. 2
                     STRM       3.99  PRECIPITATION DEPTH
                     TRDA      10.00  TRANSPOSITION DRAINAGE AREA

 0 PI            PRECIPITATION PATTERN
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
                   .01       .01       .01       .01       .01       .01       .01       .01       .03       .03
                   .03       .09       .09       .09       .01       .01       .01       .01       .01       .01
                   .01       .01       .01       .01       .01       .01       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                   .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
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                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00

25 JD        INDEX STORM NO. 3
                STRM        3.83  PRECIPITATION DEPTH
                TRDA       50.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .03       .03
                .03       .09       .09       .09       .01       .01       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00

26 JD        INDEX STORM NO. 4
                STRM        3.76  PRECIPITATION DEPTH
                TRDA      100.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .03       .03
                .03       .09       .09       .09       .01       .01       .01       .01       .01       .01
                .01       .01       .01       .01       .01       .01       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00

27 JD        INDEX STORM NO. 5
                STRM        3.70  PRECIPITATION DEPTH
                TRDA      200.00  TRANSPOSITION DRAINAGE AREA

 0 PI         PRECIPITATION PATTERN
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
                .00       .00       .00       .00       .00       .00       .00       .01       .00       .01
                .01       .01       .01       .01       .01       .01       .01       .01       .03       .03
                .03       .09       .09       .09       .01       .01       .01       .01       .01       .01
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.01     .01     .01     .01     .01     .01     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00     .00     .00
.00     .00     .00     .00     .00     .00     .00     .00
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              **************
              *            *
5685 KK       *    CP364A  *
              *            *
              **************

5686 KO           OUTPUT CONTROL VARIABLES
                        IPRNT          3  PRINT CONTROL
                        IPLOT          0  PLOT CONTROL
                        QSCAL         0.  HYDROGRAPH PLOT SCALE
                                 ADD HYDROGRAPHS AT CP364A

5688 HC           HYDROGRAPH COMBINATION
                        ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                  ***

      ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION   CP364A
                      TRANSPOSITION AREA       .0 SQ MI

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+    3499.     19.92                3171.       1182.       1139.        1139.
                       (INCHES)      .511        .763        .763         .763
                        (AC-FT)     1572.       2345.       2345.        2345.

                       CUMULATIVE AREA =   57.66 SQ MI

      ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION   CP364A
                      TRANSPOSITION AREA     10.0 SQ MI

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+    3442.     19.92                3123.       1164.       1121.        1121.
                       (INCHES)      .504        .751        .751         .751
                        (AC-FT)     1548.       2309.       2309.        2309.

                       CUMULATIVE AREA =   57.66 SQ MI

      ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION   CP364A
                      TRANSPOSITION AREA     50.0 SQ MI

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+    3217.     20.00                2932.       1092.       1051.        1051.
                       (INCHES)      .473        .704        .704         .704
                        (AC-FT)     1454.       2165.       2165.        2165.

                       CUMULATIVE AREA =   57.66 SQ MI

      ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION   CP364A
                      TRANSPOSITION AREA    100.0 SQ MI

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR       72-HR     24.92-HR
```

```
+   (CFS)        (HR)
                          (CFS)
+    3120.      20.00                  2847.        1060.        1021.        1021.
                          (INCHES)      .459         .684         .684         .684
                          (AC-FT)      1412.        2103.        2103.        2103.

                          CUMULATIVE AREA =   57.66 SQ MI

      ***              ***              ***              ***              ***

                          HYDROGRAPH AT STATION   CP364A
                         TRANSPOSITION AREA    200.0 SQ MI

  PEAK FLOW      TIME                            MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR        72-HR      24.92-HR
+   (CFS)        (HR)
                          (CFS)
+    3036.      20.00                  2774.        1033.         995.         995.
                          (INCHES)      .447         .666         .666         .666
                          (AC-FT)      1375.        2049.        2049.        2049.

                          CUMULATIVE AREA =   57.66 SQ MI

      ***              ***              ***              ***              ***


                          INTERPOLATED HYDROGRAPH AT   CP364A

  PEAK FLOW      TIME                            MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR        72-HR      24.92-HR
+   (CFS)        (HR)
                          (CFS)
+    3198.      20.00                  2915.        1085.        1045.        1045.
                          (INCHES)      .470         .700         .700         .700
                          (AC-FT)      1445.        2153.        2153.        2153.

                          CUMULATIVE AREA =   57.66 SQ MI

1
                                                  RUNOFF SUMMARY
                                              FLOW IN CUBIC FEET PER SECOND
                                           TIME IN HOURS,  AREA IN SQUARE MILES

                                                PEAK    TIME OF    AVERAGE FLOW FOR MAXIMUM PERIOD      BASIN    MAXIMUM    TIME OF
+          OPERATION          STATION          FLOW     PEAK                                          AREA     STAGE     MAX STAGE
                                                                    6-HOUR      24-HOUR      72-HOUR
+          HYDROGRAPH AT
                                   1          1342.    12.50         175.         50.          48.      1.94
+          ROUTED TO
                                RCP1          1114.    12.75         165.         42.          40.      1.94
+          HYDROGRAPH AT
                                   2          1174.    12.75         206.         58.          56.      1.82
+          2 COMBINED AT
                                 CP2          2284.    12.75         370.        100.          96.      3.76
+          ROUTED TO
                                RCP2          2048.    12.92         358.         92.          88.      3.76
+          HYDROGRAPH AT
                                  3A           296.    12.33          29.          7.           7.       .29
+          ROUTED TO
                               RCP3A           229.    12.58          27.          7.           7.       .29
+          HYDROGRAPH AT
                                   3           828.    12.33          83.         21.          20.       .81
+          2 COMBINED AT
                               I1CP3           997.    12.42         110.         28.          27.      1.10
+          2 COMBINED AT
                                 CP3          2245.    12.92         468.        119.         115.      4.86
+          DIVERSION TO
                                DCP3           490.    12.92          60.         15.          14.      4.86
+          HYDROGRAPH AT
                                 CP3          1755.    12.92         408.        104.         100.      4.86
+          ROUTED TO
                                RCP3          1647.    13.08         391.         98.          94.      4.86
+          HYDROGRAPH AT
                                   4           339.    12.25          26.          7.           6.       .30
+          HYDROGRAPH AT
                                   5           716.    12.25          65.         18.          18.       .72
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+	2 COMBINED AT	CP5	1053.	12.25	90.	25.	24.	1.02
+	ROUTED TO	RCP5	973.	12.33	89.	24.	23.	1.02
+	HYDROGRAPH AT	6	591.	12.08	41.	12.	11.	.45
+	2 COMBINED AT	I1CP7	1289.	12.17	130.	35.	34.	1.47
+	HYDROGRAPH AT	7	390.	12.08	28.	8.	8.	.31
+	2 COMBINED AT	CP7	1668.	12.17	158.	43.	41.	1.78
+	ROUTED TO	RCP7	1435.	12.33	151.	38.	36.	1.78
+	HYDROGRAPH AT	9	1096.	12.42	127.	36.	35.	1.40
+	2 COMBINED AT	I1CP9	2527.	12.33	277.	74.	71.	3.18
+	HYDROGRAPH AT	8	704.	12.33	73.	21.	20.	.81
+	2 COMBINED AT	CP9	3227.	12.33	350.	94.	91.	3.99
+	ROUTED TO	RCP9	2648.	12.75	326.	81.	78.	3.99
+	HYDROGRAPH AT	10	1173.	12.75	201.	52.	50.	2.02
+	2 COMBINED AT	I1CP10	3816.	12.75	525.	133.	129.	6.01
+	2 COMBINED AT	CP10	5141.	12.75	911.	230.	222.	10.87
+	DIVERSION TO	DCP10	1486.	12.75	193.	48.	46.	10.87
+	HYDROGRAPH AT	CP10	3655.	12.75	718.	182.	175.	10.87
+	ROUTED TO	RCP10	3503.	12.92	711.	178.	171.	10.87
+	HYDROGRAPH AT	12	1149.	12.58	156.	40.	39.	1.38
+	2 COMBINED AT	CP12	4125.	12.83	861.	217.	209.	12.25
+	ROUTED TO	RCP12	3696.	13.08	822.	205.	198.	12.25
+	HYDROGRAPH AT	11	1313.	12.50	165.	44.	43.	1.56
+	ROUTED TO	RCP11	1011.	12.75	164.	44.	43.	1.56
+	HYDROGRAPH AT	13	1170.	12.42	137.	34.	33.	1.30
+	2 COMBINED AT	CP13	1743.	12.58	301.	78.	76.	2.86
+	ROUTED TO	RCP13	1719.	12.67	301.	78.	75.	2.86
+	HYDROGRAPH AT	14	1163.	12.33	130.	37.	35.	1.47
+	ROUTED TO	RCP14	1041.	12.58	130.	37.	35.	1.47
+	HYDROGRAPH AT	15	1039.	12.42	117.	32.	30.	1.26
+	2 COMBINED AT	I1CP15	1920.	12.50	246.	68.	66.	2.73
+	HYDROGRAPH AT	16	1255.	12.42	155.	43.	41.	1.13

+	ROUTED TO	SR16	0.	.08	0.	0.	0.	1.13
+	2 COMBINED AT	CP15	1920.	12.50	246.	68.	66.	3.86
+	ROUTED TO	RCP15	1453.	12.83	211.	53.	51.	3.86
+	HYDROGRAPH AT	17	929.	12.25	110.	27.	26.	1.07
+	2 COMBINED AT	I1CP17	1738.	12.75	321.	80.	77.	4.93
+	2 COMBINED AT	CP17	3428.	12.75	621.	158.	153.	7.79
+	ROUTED TO	RCP17	3377.	12.83	614.	154.	148.	7.79
+	HYDROGRAPH AT	WT3	413.	12.50	54.	14.	13.	.44
+	2 COMBINED AT	I1CWT3	3605.	12.83	668.	167.	161.	8.23
+	2 COMBINED AT	CPWT3	6649.	12.92	1450.	362.	349.	20.48
+	ROUTED TO	SRWT3	0.	.08	0.	0.	0.	20.48
+	HYDROGRAPH AT	101	233.	12.25	22.	5.	5.	.16
+	HYDROGRAPH AT	102A	525.	12.58	73.	18.	18.	.51
+	2 COMBINED AT	CP101	635.	12.50	95.	24.	23.	.67
+	ROUTED TO	R101	629.	12.50	95.	24.	23.	.67
+	HYDROGRAPH AT	102	135.	12.42	17.	4.	4.	.10
+	2 COMBINED AT	CP102	753.	12.50	112.	28.	27.	.77
+	ROUTED TO	R102	763.	12.58	112.	28.	27.	.77
+	HYDROGRAPH AT	108	478.	13.25	117.	29.	28.	.79
+	2 COMBINED AT	1I108	999.	12.58	228.	57.	55.	1.56
+	HYDROGRAPH AT	103	286.	12.92	55.	14.	13.	.37
+	ROUTED TO	R103	267.	13.08	55.	14.	13.	.37
+	2 COMBINED AT	CP108	1158.	12.75	283.	71.	68.	1.93
+	ROUTED TO	R108	1123.	13.25	283.	71.	68.	1.93
+	HYDROGRAPH AT	106	871.	12.50	111.	28.	27.	.77
+	ROUTED TO	R106	778.	12.67	111.	28.	27.	.77
+	HYDROGRAPH AT	107	398.	13.08	88.	22.	21.	.60
+	2 COMBINED AT	CP107	1044.	12.75	199.	50.	48.	1.37
+	ROUTED TO	R107	948.	13.17	199.	50.	48.	1.37
+	HYDROGRAPH AT	115	379.	13.08	89.	22.	22.	.49
+	2 COMBINED AT	1I115	1313.	13.17	288.	72.	69.	1.86

+	2 COMBINED AT	2I115	2429.	13.17	570.	143.	137.	3.79
+	HYDROGRAPH AT	111	443.	12.67	71.	18.	17.	.50
+	DIVERSION TO	DI119	166.	12.67	26.	7.	6.	.50
+	HYDROGRAPH AT	D111	276.	12.67	45.	11.	11.	.50
+	ROUTED TO	R111	232.	13.33	45.	11.	11.	.50
+	HYDROGRAPH AT	104	236.	12.17	20.	5.	5.	.15
+	ROUTED TO	R104	89.	14.67	20.	5.	5.	.15
+	HYDROGRAPH AT	112	534.	13.33	138.	34.	33.	.97
+	2 COMBINED AT	1I112	534.	13.33	157.	40.	38.	1.12
+	2 COMBINED AT	2I112	765.	13.33	202.	51.	49.	1.62
+	HYDROGRAPH AT	105	354.	12.25	34.	9.	8.	.21
+	ROUTED TO	R105	316.	12.42	34.	9.	8.	.21
+	2 COMBINED AT	CP112	790.	13.33	236.	59.	57.	1.83
+	DIVERSION TO	DI120	263.	13.33	79.	20.	19.	1.83
+	HYDROGRAPH AT	D112	527.	13.33	158.	40.	38.	1.83
+	DIVERSION TO	1D121A	263.	13.33	79.	20.	19.	1.83
+	HYDROGRAPH AT	D112	264.	13.33	79.	20.	19.	1.83
+	ROUTED TO	R112	241.	13.75	79.	20.	19.	1.83
+	HYDROGRAPH AT	113A	409.	13.08	106.	27.	26.	.50
+	2 COMBINED AT	CP113A	560.	13.08	183.	46.	45.	2.33
+	DIVERSION TO	2D121A	58.	13.08	9.	2.	2.	2.33
+	HYDROGRAPH AT	D113A	502.	13.08	174.	44.	42.	2.33
+	ROUTED TO	R113A	444.	15.00	173.	44.	42.	2.33
+	HYDROGRAPH AT	113	431.	13.08	117.	29.	28.	.50
+	2 COMBINED AT	CP113	556.	13.08	284.	73.	71.	2.83
+	DIVERSION TO	1D122	442.	13.08	226.	58.	56.	2.83
+	HYDROGRAPH AT	D113	114.	13.08	58.	15.	14.	2.83
+	ROUTED TO	R113	106.	13.50	58.	15.	14.	2.83
+	HYDROGRAPH AT	114	326.	13.00	84.	21.	20.	.38
+	2 COMBINED AT	CP114	376.	13.08	140.	36.	35.	3.21
+	DIVERSION TO	2D122	96.	13.08	20.	5.	5.	3.21

+	HYDROGRAPH AT	D114	280.	13.08	120.	31.	30.	3.21
+	ROUTED TO	R114	278.	13.17	119.	31.	30.	3.21
+	2 COMBINED AT	CP115	2705.	13.17	688.	173.	167.	7.00
+	ROUTED TO	R115	2541.	13.67	686.	173.	167.	7.00
+	HYDROGRAPH AT	D113	442.	13.08	226.	58.	56.	2.83
+	ROUTED TO	R113	393.	14.50	220.	58.	56.	2.83
+	HYDROGRAPH AT	D114	96.	13.08	20.	5.	5.	3.21
+	ROUTED TO	R114	74.	15.08	20.	5.	5.	3.21
+	HYDROGRAPH AT	122	552.	13.33	146.	37.	35.	.89
+	3 COMBINED AT	1I122	571.	14.33	357.	99.	96.	4.10
+	2 COMBINED AT	CP122	2976.	13.58	1041.	273.	263.	7.89
+	DIVERSION TO	DI134	2643.	13.58	949.	243.	234.	7.89
+	HYDROGRAPH AT	D122	332.	13.58	94.	29.	28.	7.89
+	ROUTED TO	R122	308.	14.42	93.	28.	27.	7.89
+	HYDROGRAPH AT	D111	166.	12.67	26.	7.	6.	.50
+	ROUTED TO	R111	136.	13.33	26.	7.	6.	.50
+	HYDROGRAPH AT	119	600.	13.17	143.	36.	34.	.86
+	2 COMBINED AT	CP119	706.	13.17	169.	42.	41.	1.36
+	DIVERSION TO	DI128	410.	13.17	98.	25.	24.	1.36
+	HYDROGRAPH AT	D119	296.	13.17	70.	18.	17.	1.36
+	ROUTED TO	R119	270.	13.58	70.	18.	17.	1.36
+	HYDROGRAPH AT	119A	356.	13.17	91.	23.	22.	.47
+	2 COMBINED AT	CP119A	533.	13.25	161.	40.	39.	1.83
+	DIVERSION TO	DI130	0.	.08	0.	0.	0.	1.83
+	HYDROGRAPH AT	D119A	533.	13.25	161.	40.	39.	1.83
+	ROUTED TO	R119A	531.	13.50	161.	40.	39.	1.83
+	HYDROGRAPH AT	120	397.	13.25	106.	27.	26.	.54
+	2 COMBINED AT	1I120	895.	13.33	266.	67.	64.	2.37
+	HYDROGRAPH AT	D112	263.	13.33	79.	20.	19.	1.83
+	ROUTED TO	R112	239.	13.83	78.	20.	19.	1.83
+	2 COMBINED AT	CP120	1056.	13.33	342.	86.	83.	4.20

+	ROUTED TO	R120	1023.	13.92	341.	86.	83.	4.20
+	HYDROGRAPH AT	D119	410.	13.17	98.	25.	24.	1.36
+	ROUTED TO	R119	383.	13.50	98.	25.	24.	1.36
+	HYDROGRAPH AT	128	312.	12.92	59.	15.	14.	.41
+	2 COMBINED AT	CP128	537.	13.25	158.	39.	38.	1.77
+	ROUTED TO	R128	538.	14.42	157.	39.	38.	1.77
+	HYDROGRAPH AT	D119A	0.	.08	0.	0.	0.	1.83
+	ROUTED TO	R119A	0.	.08	0.	0.	0.	1.83
+	HYDROGRAPH AT	130	647.	13.25	172.	43.	41.	1.00
+	3 COMBINED AT	1I130	715.	14.42	323.	82.	79.	3.24
+	HYDROGRAPH AT	129	378.	12.67	61.	16.	15.	.43
+	ROUTED TO	R129	315.	13.25	61.	16.	15.	.43
+	3 COMBINED AT	CP130	1703.	13.42	724.	184.	178.	5.54
+	DIVERSION TO	DI144	795.	13.42	242.	61.	58.	5.54
+	HYDROGRAPH AT	D130	908.	13.42	481.	124.	119.	5.54
+	ROUTED TO	R130	907.	13.75	480.	124.	119.	5.54
+	HYDROGRAPH AT	131A	354.	13.08	79.	20.	19.	.49
+	2 COMBINED AT	CP131A	1102.	13.58	553.	143.	138.	6.03
+	ROUTED TO	R131A	1098.	13.75	552.	143.	138.	6.03
+	HYDROGRAPH AT	131	355.	13.08	79.	20.	19.	.49
+	2 COMBINED AT	1I131	1274.	13.58	621.	163.	157.	6.52
+	HYDROGRAPH AT	D112	263.	13.33	79.	20.	19.	1.83
+	ROUTED TO	R112	247.	13.67	78.	20.	19.	1.83
+	HYDROGRAPH AT	121A	324.	12.92	60.	15.	14.	.50
+	2 COMBINED AT	1I121A	465.	12.92	137.	35.	33.	2.33
+	HYDROGRAPH AT	D113A	58.	13.08	9.	2.	2.	2.33
+	ROUTED TO	R113A	40.	14.25	9.	2.	2.	2.33
+	2 COMBINED AT	CP121A	465.	12.92	146.	37.	36.	2.83
+	ROUTED TO	R121A	434.	13.08	146.	37.	36.	2.83
+	HYDROGRAPH AT	121	325.	12.92	60.	15.	14.	.50
+	2 COMBINED AT	CP121	708.	13.00	205.	52.	50.	3.33

+	ROUTED TO	R121	642.	13.50	202.	52.	50.	3.33
+	2 COMBINED AT	CP131	1909.	13.50	822.	215.	207.	8.52
+	DIVERSION TO	DI145	1550.	13.50	665.	172.	166.	8.52
+	HYDROGRAPH AT	D131	359.	13.50	157.	42.	41.	8.52
+	ROUTED TO	R131	352.	13.83	157.	42.	41.	8.52
+	HYDROGRAPH AT	132	271.	13.00	56.	14.	13.	.41
+	2 COMBINED AT	CP132	460.	13.58	208.	56.	54.	8.93
+	ROUTED TO	R132	451.	13.92	206.	56.	54.	8.93
+	HYDROGRAPH AT	133	328.	13.08	71.	18.	17.	.49
+	2 COMBINED AT	1I133	579.	13.42	270.	74.	71.	9.42
+	2 COMBINED AT	CP133	725.	14.33	354.	101.	97.	14.48
+	DIVERSION TO	DI146	290.	14.33	141.	40.	39.	14.48
+	HYDROGRAPH AT	D133	435.	14.33	213.	61.	59.	14.48
+	DIVERSION TO	1D147	145.	14.33	71.	20.	19.	14.48
+	HYDROGRAPH AT	D133	291.	14.33	142.	41.	39.	14.48
+	ROUTED TO	R133	281.	14.58	142.	40.	39.	14.48
+	HYDROGRAPH AT	D122	2643.	13.58	949.	243.	234.	7.89
+	ROUTED TO	R122	2572.	14.00	941.	243.	234.	7.89
+	HYDROGRAPH AT	134	334.	13.08	73.	18.	18.	.50
+	2 COMBINED AT	1I134	2655.	14.00	980.	262.	252.	8.39
+	HYDROGRAPH AT	123	338.	13.00	74.	18.	18.	.44
+	DIVERSION TO	DI124	338.	13.00	74.	18.	18.	.44
+	HYDROGRAPH AT	D123	0.	.08	0.	0.	0.	.44
+	ROUTED TO	R123	0.	.08	0.	0.	0.	.44
+	2 COMBINED AT	2I134	2655.	14.00	980.	262.	252.	8.83
+	2 COMBINED AT	CP134	2847.	14.00	1106.	298.	287.	15.42
+	DIVERSION TO	2D147	2060.	14.00	741.	193.	186.	15.42
+	HYDROGRAPH AT	D134	787.	14.00	365.	105.	101.	15.42
+	ROUTED TO	R134	771.	14.17	365.	105.	101.	15.42
+	HYDROGRAPH AT	D123	338.	13.00	74.	18.	18.	.44
+	ROUTED TO	R123	311.	13.33	74.	18.	18.	.44

+	HYDROGRAPH AT	124	355.	13.33	97.	24.	23.	.57
+	2 COMBINED AT	CP124	665.	13.33	171.	43.	41.	1.01
+	DIVERSION TO	DI136	308.	13.33	87.	22.	21.	1.01
+	HYDROGRAPH AT	D124	356.	13.33	83.	21.	20.	1.01
+	DIVERSION TO	DI125	200.	13.33	56.	14.	14.	1.01
+	HYDROGRAPH AT	D124	157.	13.33	27.	7.	6.	1.01
+	ROUTED TO	R124	129.	14.00	27.	7.	6.	1.01
+	2 COMBINED AT	1I135	885.	14.17	391.	112.	107.	15.63
+	HYDROGRAPH AT	135	315.	13.17	72.	18.	17.	.49
+	2 COMBINED AT	CP135	970.	14.08	449.	129.	124.	16.48
+	DIVERSION TO	DI148	172.	14.08	52.	13.	13.	16.48
+	HYDROGRAPH AT	D135	798.	14.08	396.	116.	112.	16.48
+	ROUTED TO	R135	781.	14.33	395.	115.	111.	16.48
+	HYDROGRAPH AT	D124	308.	13.33	87.	22.	21.	1.01
+	ROUTED TO	R124	297.	14.92	81.	22.	21.	1.01
+	HYDROGRAPH AT	136	315.	13.08	69.	17.	17.	.46
+	2 COMBINED AT	1I136	315.	13.08	139.	39.	37.	1.47
+	2 COMBINED AT	CP136	931.	14.92	523.	154.	148.	16.94
+	ROUTED TO	R136	868.	15.25	520.	153.	147.	16.94
+	HYDROGRAPH AT	137	307.	13.42	85.	21.	20.	.54
+	2 COMBINED AT	1I137	907.	13.50	590.	174.	167.	17.12
+	HYDROGRAPH AT	100A	212.	12.50	31.	8.	7.	.18
+	ROUTED TO	R100A	101.	14.83	30.	8.	7.	.18
+	HYDROGRAPH AT	100	283.	12.58	45.	11.	11.	.26
+	2 COMBINED AT	CP100	283.	12.58	70.	19.	18.	.44
+	ROUTED TO	R100	150.	14.75	61.	18.	17.	.44
+	HYDROGRAPH AT	109	536.	13.25	140.	35.	34.	.85
+	2 COMBINED AT	CP109	535.	13.25	184.	53.	51.	1.29
+	ROUTED TO	R109	475.	14.00	178.	52.	50.	1.29
+	HYDROGRAPH AT	116	575.	13.50	166.	41.	40.	1.02
+	2 COMBINED AT	CP116	892.	13.75	331.	93.	90.	2.31

+	ROUTED TO	R116	885.	14.00	330.	93.	89.	2.31
+	HYDROGRAPH AT	110	270.	12.83	51.	13.	12.	.31
+	ROUTED TO	R110	228.	13.50	51.	13.	12.	.31
+	HYDROGRAPH AT	117	335.	12.83	63.	17.	16.	.41
+	2 COMBINED AT	1I117	359.	13.33	114.	30.	29.	.72
+	2 COMBINED AT	2I117	1104.	13.83	439.	122.	118.	3.03
+	HYDROGRAPH AT	117A	195.	12.83	38.	9.	9.	.21
+	ROUTED TO	R117A	182.	13.08	38.	9.	9.	.21
+	2 COMBINED AT	CP117	1172.	13.75	476.	131.	127.	3.24
+	ROUTED TO	R117	1148.	14.08	474.	131.	126.	3.24
+	HYDROGRAPH AT	125	1044.	12.50	134.	33.	32.	1.00
+	2 COMBINED AT	1I125	1148.	14.08	598.	164.	158.	4.24
+	HYDROGRAPH AT	D124	200.	13.33	56.	14.	14.	1.01
+	ROUTED TO	R124	189.	13.83	56.	14.	14.	1.01
+	2 COMBINED AT	CP125	1318.	14.08	654.	178.	171.	5.25
+	DIVERSION TO	DI126	439.	14.08	218.	59.	57.	5.25
+	HYDROGRAPH AT	D125	879.	14.08	436.	119.	114.	5.25
+	DIVERSION TO	DI138	439.	14.08	218.	59.	57.	5.25
+	HYDROGRAPH AT	D125	440.	14.08	218.	59.	57.	5.25
+	ROUTED TO	R125	428.	14.58	215.	59.	57.	5.25
+	2 COMBINED AT	CP137	1306.	14.50	795.	230.	221.	21.72
+	DIVERSION TO	DI149	435.	14.50	265.	76.	74.	21.72
+	HYDROGRAPH AT	D137	870.	14.50	530.	153.	147.	21.72
+	DIVERSION TO	DI153	435.	14.50	265.	76.	74.	21.72
+	HYDROGRAPH AT	D137	435.	14.50	265.	77.	74.	21.72
+	ROUTED TO	R137	421.	15.58	259.	75.	72.	21.72
+	HYDROGRAPH AT	118	126.	12.83	23.	6.	6.	.15
+	ROUTED TO	R118	101.	14.00	23.	6.	6.	.15
+	HYDROGRAPH AT	126	562.	13.33	146.	36.	35.	.95
+	2 COMBINED AT	1I126	563.	13.33	169.	42.	41.	1.10
+	HYDROGRAPH AT	D125	439.	14.08	218.	59.	57.	5.25

	ROUTED TO						
+	R125	433.	14.25	216.	59.	57.	5.25
	2 COMBINED AT						
+	CP126	856.	13.33	381.	101.	98.	6.35
	DIVERSION TO						
+	DI139	685.	13.33	305.	81.	78.	6.35
	HYDROGRAPH AT						
+	D126	171.	13.33	76.	20.	20.	6.35
	ROUTED TO						
+	R126	162.	14.33	75.	20.	19.	6.35
	HYDROGRAPH AT						
+	D125	439.	14.08	218.	59.	57.	5.25
	ROUTED TO						
+	R125	419.	15.75	198.	55.	53.	5.25
	HYDROGRAPH AT						
+	138	587.	13.33	155.	39.	37.	1.00
	2 COMBINED AT						
+	1I138	586.	13.33	312.	93.	90.	6.25
	2 COMBINED AT						
+	2I138	613.	13.42	385.	113.	109.	7.35
	2 COMBINED AT						
+	CP138	934.	15.58	596.	184.	177.	23.82
	HYDROGRAPH AT						
+	D137	435.	14.50	265.	76.	74.	21.72
	ROUTED TO						
+	R137	421.	16.17	245.	71.	68.	21.72
	HYDROGRAPH AT						
+	153	112.	13.33	30.	7.	7.	.20
	2 COMBINED AT						
+	CP153	423.	16.17	246.	78.	75.	21.92
	2 COMBINED AT						
+	CP138	1329.	15.50	812.	261.	252.	24.02
	ROUTED TO						
+	SR138	1327.	15.75	812.	261.	252.	24.02
	DIVERSION TO						
+	DI154	849.	15.75	529.	172.	166.	24.02
	HYDROGRAPH AT						
+	D138	477.	15.75	283.	89.	86.	24.02
	ROUTED TO						
+	R138	468.	16.67	280.	86.	83.	24.02
	HYDROGRAPH AT						
+	D138	849.	15.75	529.	172.	166.	24.02
	ROUTED TO						
+	R138	845.	16.33	528.	168.	162.	24.02
	HYDROGRAPH AT						
+	154	171.	12.58	26.	7.	6.	.17
	2 COMBINED AT						
+	CP154	845.	16.33	529.	175.	168.	24.19
	ROUTED TO						
+	R154	829.	17.25	526.	167.	161.	24.19
	HYDROGRAPH AT						
+	157	946.	12.58	150.	37.	36.	.89
	2 COMBINED AT						
+	1I157	919.	12.58	526.	204.	196.	25.08
	2 COMBINED AT						
+	2I157	1258.	17.17	798.	289.	279.	25.08
	HYDROGRAPH AT						
+	127	469.	12.08	42.	12.	11.	.22
	ROUTED TO						
+	R127	255.	13.42	42.	12.	11.	.22
	HYDROGRAPH AT						
+	139	338.	13.08	77.	19.	19.	.47

+	2 COMBINED AT	1I139	521.	13.33	119.	31.	30.	.69
+	HYDROGRAPH AT	D126	685.	13.33	305.	81.	78.	6.35
+	ROUTED TO	R126	660.	14.42	297.	80.	77.	6.35
+	2 COMBINED AT	2I139	832.	13.83	399.	111.	107.	7.04
+	HYDROGRAPH AT	140	194.	12.67	32.	8.	8.	.18
+	2 COMBINED AT	CP139	843.	13.83	429.	119.	115.	7.22
+	ROUTED TO	SR139	835.	13.92	428.	118.	114.	7.22
+	ROUTED TO	R139	819.	14.25	427.	118.	113.	7.22
+	HYDROGRAPH AT	156	252.	12.75	46.	12.	12.	.30
+	2 COMBINED AT	CP156	829.	14.25	462.	130.	125.	7.52
+	ROUTED TO	R156	792.	15.58	455.	126.	122.	7.52
+	2 COMBINED AT	CP157	1771.	17.00	1228.	411.	396.	26.25
+	ROUTED TO	R157	1768.	17.08	1227.	409.	394.	26.25
+	HYDROGRAPH AT	172	122.	12.58	18.	5.	4.	.12
+	2 COMBINED AT	CP172	1768.	17.08	1227.	413.	398.	26.37
+	ROUTED TO	R172	1754.	17.42	1224.	410.	395.	26.37
+	HYDROGRAPH AT	173	198.	13.00	39.	10.	9.	.31
+	2 COMBINED AT	CP173	1753.	17.42	1224.	419.	404.	26.68
+	HYDROGRAPH AT	156A	508.	12.17	46.	13.	13.	.31
+	ROUTED TO	R156A	184.	14.17	45.	13.	13.	.31
+	HYDROGRAPH AT	158	494.	13.08	108.	29.	28.	.97
+	2 COMBINED AT	1I158	497.	13.08	148.	42.	40.	1.28
+	HYDROGRAPH AT	158C	105.	12.58	17.	4.	4.	.09
+	ROUTED TO	R158C	53.	14.33	16.	4.	4.	.09
+	HYDROGRAPH AT	158B	483.	13.00	104.	28.	27.	.67
+	2 COMBINED AT	CP158B	483.	13.00	119.	33.	31.	.76
+	ROUTED TO	R158B	465.	13.17	119.	32.	31.	.76
+	HYDROGRAPH AT	158A	114.	13.25	26.	6.	6.	.38
+	2 COMBINED AT	CP158A	577.	13.17	145.	39.	37.	1.14
+	ROUTED TO	SR158A	304.	13.75	78.	20.	20.	1.14
+	DIVERSION TO	DI158A	0.	.08	0.	0.	0.	1.14

+	HYDROGRAPH AT	D158A	304.	13.75	78.	20.	20.	1.14
+	ROUTED TO	R158A	298.	14.08	76.	20.	19.	1.14
+	2 COMBINED AT	CP158	557.	14.17	219.	62.	60.	2.42
+	ROUTED TO	R158	494.	14.67	217.	61.	59.	2.42
+	HYDROGRAPH AT	173B	88.	12.83	14.	4.	3.	.20
+	2 COMBINED AT	CP173B	496.	14.58	229.	65.	63.	2.62
+	HYDROGRAPH AT	158E	767.	12.17	70.	20.	19.	.45
+	ROUTED TO	R158E	679.	12.42	70.	20.	19.	.45
+	HYDROGRAPH AT	158D	560.	12.25	55.	15.	15.	.37
+	2 COMBINED AT	RC158D	1149.	12.33	125.	35.	34.	.82
+	ROUTED TO	RR158D	578.	13.25	125.	35.	34.	.82
+	HYDROGRAPH AT	D158A	0.	.08	0.	0.	0.	1.14
+	2 COMBINED AT	RC158A	578.	13.25	125.	35.	34.	1.96
+	ROUTED TO	RR158A	385.	14.50	125.	35.	33.	1.96
+	2 COMBINED AT	RC173B	880.	14.58	354.	99.	96.	3.44
+	2 COMBINED AT	RCP173	1826.	17.33	1460.	512.	493.	30.12
+	ROUTED TO	RR173	1819.	17.50	1454.	510.	491.	30.12
+	HYDROGRAPH AT	171	409.	13.42	115.	29.	28.	.70
+	ROUTED TO	R171	388.	13.67	115.	29.	28.	.70
+	HYDROGRAPH AT	173A	191.	12.75	34.	8.	8.	.20
+	2 COMBINED AT	CP173A	421.	13.58	148.	37.	36.	.90
+	2 COMBINED AT	RC173A	1822.	17.42	1563.	545.	525.	31.02
+	ROUTED TO	RR173A	1802.	17.75	1536.	537.	517.	31.02
+	HYDROGRAPH AT	186	187.	13.25	48.	12.	12.	.33
+	ROUTED TO	R186	173.	13.67	48.	12.	12.	.33
+	HYDROGRAPH AT	187	81.	12.00	5.	1.	1.	.35
+	2 COMBINED AT	CP187	173.	13.67	52.	13.	13.	.68
+	2 COMBINED AT	RCP187	1801.	17.75	1570.	549.	529.	31.70
+	ROUTED TO	RR187	1787.	18.08	1542.	540.	520.	31.70
+	HYDROGRAPH AT	199	74.	13.08	16.	4.	4.	.11
+	ROUTED TO	R199	65.	13.67	16.	4.	4.	.11

+	HYDROGRAPH AT	200	231.	12.67	37.	9.	9.	.29
+	2 COMBINED AT	CP200	231.	12.67	53.	13.	13.	.40
+	2 COMBINED AT	RCP200	1786.	18.08	1550.	552.	532.	32.10
+	ROUTED TO	RR200	1780.	18.25	1538.	546.	526.	32.10
+	HYDROGRAPH AT	141	460.	12.33	47.	12.	11.	.47
+	ROUTED TO	R141	456.	12.42	47.	12.	11.	.47
+	HYDROGRAPH AT	141A	202.	12.17	14.	4.	3.	.14
+	2 COMBINED AT	CP141A	540.	12.33	61.	15.	15.	.62
+	ROUTED TO	R141A	504.	12.50	61.	15.	15.	.62
+	HYDROGRAPH AT	142	351.	13.00	74.	18.	18.	.51
+	2 COMBINED AT	CP142	692.	12.50	134.	34.	32.	1.13
+	ROUTED TO	R142	656.	12.92	134.	34.	32.	1.13
+	HYDROGRAPH AT	143	354.	13.00	75.	19.	18.	.50
+	2 COMBINED AT	CP143	992.	13.00	209.	52.	50.	1.63
+	ROUTED TO	R143	973.	13.08	209.	52.	50.	1.63
+	HYDROGRAPH AT	D130	795.	13.42	242.	61.	58.	5.54
+	ROUTED TO	R130	772.	14.00	242.	61.	58.	5.54
+	HYDROGRAPH AT	144	351.	13.00	74.	18.	18.	.51
+	2 COMBINED AT	1I144	858.	13.83	316.	79.	76.	6.05
+	2 COMBINED AT	CP144	1398.	13.67	524.	131.	126.	7.68
+	DIVERSION TO	D164A	117.	13.67	33.	8.	8.	7.68
+	HYDROGRAPH AT	D144	1281.	13.67	492.	123.	119.	7.68
+	ROUTED TO	R144	1264.	13.92	491.	123.	119.	7.68
+	HYDROGRAPH AT	145A	327.	13.08	73.	18.	18.	.49
+	2 COMBINED AT	CP145A	1467.	13.25	563.	141.	136.	8.17
+	ROUTED TO	R145A	1440.	13.50	562.	141.	136.	8.17
+	HYDROGRAPH AT	D131	1550.	13.50	665.	172.	166.	8.52
+	ROUTED TO	R131	1510.	14.08	659.	172.	166.	8.52
+	HYDROGRAPH AT	145	328.	13.08	72.	18.	17.	.48
+	2 COMBINED AT	1I145	1590.	14.00	708.	190.	183.	9.00
+	2 COMBINED AT	CP145	2946.	14.00	1263.	330.	318.	11.63

+	DIVERSION TO	DI164	991.	14.00	315.	79.	76.	11.63
+	HYDROGRAPH AT	D145	1954.	14.00	948.	251.	242.	11.63
+	DIVERSION TO	DI165	868.	14.00	365.	91.	88.	11.63
+	HYDROGRAPH AT	D145	1086.	14.00	583.	160.	154.	11.63
+	ROUTED TO	R145	1076.	14.25	580.	159.	154.	11.63
+	HYDROGRAPH AT	D133	290.	14.33	141.	40.	39.	14.48
+	ROUTED TO	R133	273.	14.83	140.	40.	39.	14.48
+	HYDROGRAPH AT	146	548.	13.17	130.	33.	31.	.90
+	2 COMBINED AT	1I146	629.	13.25	259.	72.	69.	15.02
+	2 COMBINED AT	CP146	1441.	14.08	813.	229.	221.	18.49
+	DIVERSION TO	1D165	240.	12.50	240.	86.	83.	18.49
+	HYDROGRAPH AT	D146	1201.	14.08	573.	144.	138.	18.49
+	DIVERSION TO	DD166	1201.	14.08	573.	144.	138.	18.49
+	HYDROGRAPH AT	D166	0.	.08	0.	0.	0.	18.49
+	HYDROGRAPH AT	D146	240.	12.50	240.	86.	83.	18.49
+	ROUTED TO	R146	240.	14.67	240.	84.	81.	18.49
+	HYDROGRAPH AT	159	531.	12.33	51.	13.	12.	.58
+	ROUTED TO	R159	525.	12.42	51.	13.	12.	.58
+	HYDROGRAPH AT	160	432.	12.42	47.	12.	11.	.39
+	2 COMBINED AT	CP160	955.	12.42	98.	25.	24.	.97
+	ROUTED TO	R160	847.	12.58	98.	25.	24.	.97
+	HYDROGRAPH AT	161	294.	13.00	58.	14.	14.	.50
+	2 COMBINED AT	CP161	1032.	12.58	156.	39.	38.	1.47
+	ROUTED TO	R161	877.	13.08	156.	39.	38.	1.47
+	HYDROGRAPH AT	162	268.	12.50	34.	8.	8.	.25
+	ROUTED TO	R162	197.	13.17	34.	8.	8.	.25
+	HYDROGRAPH AT	163	551.	12.92	112.	28.	27.	.75
+	2 COMBINED AT	1I163	726.	13.00	146.	36.	35.	1.00
+	2 COMBINED AT	CP163	1575.	13.00	301.	75.	72.	2.47
+	DIVERSION TO	DI176A	0.	.08	0.	0.	0.	2.47
+	HYDROGRAPH AT	D163	1575.	13.00	301.	75.	72.	2.47

+	ROUTED TO	R163	1535.	13.17	301.	75.	72.	2.47
+	HYDROGRAPH AT	D144	117.	13.67	33.	8.	8.	7.68
+	ROUTED TO	R144	100.	15.83	33.	8.	8.	7.68
+	HYDROGRAPH AT	164A	365.	13.08	82.	20.	20.	.49
+	2 COMBINED AT	1I164A	364.	13.08	104.	28.	27.	8.17
+	2 COMBINED AT	CP164A	1865.	13.17	403.	103.	99.	10.64
+	ROUTED TO	R164A	1839.	13.25	403.	103.	99.	10.64
+	HYDROGRAPH AT	164	363.	13.08	81.	20.	20.	.49
+	2 COMBINED AT	1I164	2141.	13.25	480.	123.	119.	11.13
+	HYDROGRAPH AT	D145	991.	14.00	315.	79.	76.	11.63
+	ROUTED TO	R145	969.	14.42	315.	79.	76.	11.63
+	2 COMBINED AT	CP164	2141.	13.25	790.	202.	194.	15.08
+	DIVERSION TO	DI177	294.	13.25	93.	24.	23.	15.08
+	HYDROGRAPH AT	D164	1822.	13.25	687.	176.	169.	15.08
+	ROUTED TO	R164	1682.	13.67	683.	176.	169.	15.08
+	HYDROGRAPH AT	D145	868.	14.00	365.	91.	88.	11.63
+	ROUTED TO	R145	843.	15.25	351.	91.	88.	11.63
+	HYDROGRAPH AT	165	548.	13.25	133.	33.	32.	.90
+	2 COMBINED AT	1I165	858.	15.17	434.	124.	119.	12.53
+	2 COMBINED AT	2I165	2031.	13.67	1106.	298.	287.	15.98
+	2 COMBINED AT	CP165	2237.	13.67	1316.	378.	364.	22.84
+	DIVERSION TO	DI179	1000.	13.17	887.	270.	261.	22.84
+	HYDROGRAPH AT	D165	1237.	13.67	430.	107.	103.	22.84
+	ROUTED TO	R165	842.	16.33	409.	106.	103.	22.84
+	HYDROGRAPH AT	180	574.	13.33	154.	39.	37.	.99
+	2 COMBINED AT	1I180	851.	16.33	504.	143.	138.	23.83
+	HYDROGRAPH AT	D163	0.	.08	0.	0.	0.	2.47
+	ROUTED TO	R163	0.	.08	0.	0.	0.	2.47
+	HYDROGRAPH AT	176A	378.	13.25	92.	23.	22.	.62
+	2 COMBINED AT	CP176A	378.	13.25	92.	23.	22.	3.09
+	DIVERSION TO	DI191	0.	.08	0.	0.	0.	3.09

+	HYDROGRAPH AT	D176A	378.	13.25	92.	23.	22.	3.09
+	ROUTED TO	R176A	351.	13.50	92.	23.	22.	3.09
+	HYDROGRAPH AT	177A	334.	13.08	73.	18.	17.	.49
+	2 COMBINED AT	CP177A	581.	13.17	165.	41.	40.	3.58
+	ROUTED TO	R177A	576.	13.50	165.	41.	40.	3.58
+	HYDROGRAPH AT	177	336.	13.08	73.	18.	18.	.49
+	2 COMBINED AT	1I177	814.	13.33	237.	59.	57.	4.07
+	HYDROGRAPH AT	D164	294.	13.25	93.	24.	23.	15.08
+	ROUTED TO	R164	258.	13.92	92.	24.	23.	15.08
+	2 COMBINED AT	CP177	902.	13.75	321.	82.	79.	16.68
+	ROUTED TO	R177	886.	13.92	320.	82.	79.	16.68
+	HYDROGRAPH AT	178	298.	13.08	64.	16.	15.	.44
+	2 COMBINED AT	CP178	993.	13.42	382.	97.	94.	17.12
+	ROUTED TO	R178	989.	13.92	380.	97.	94.	17.12
+	HYDROGRAPH AT	D165	1000.	13.17	887.	270.	261.	22.84
+	ROUTED TO	R165	1000.	14.83	880.	268.	258.	22.84
+	HYDROGRAPH AT	179	333.	13.08	76.	19.	18.	.46
+	2 COMBINED AT	1I179	1108.	13.83	909.	286.	275.	23.30
+	2 COMBINED AT	CP179	2081.	13.83	1272.	381.	367.	25.34
+	DIVERSION TO	DI193	1000.	13.75	634.	190.	183.	25.34
+	HYDROGRAPH AT	D179	1081.	13.83	639.	191.	184.	25.34
+	DIVERSION TO	DI180	240.	12.92	240.	91.	88.	25.34
+	HYDROGRAPH AT	D179	841.	13.83	399.	100.	97.	25.34
+	DIVERSION TO	DI194	841.	13.83	399.	100.	97.	25.34
+	HYDROGRAPH AT	D179	0.	.08	0.	0.	0.	25.34
+	HYDROGRAPH AT	D179	240.	12.92	240.	91.	88.	25.34
+	ROUTED TO	R179	240.	14.83	240.	90.	87.	25.34
+	2 COMBINED AT	2I180	240.	14.83	240.	90.	87.	26.33
+	2 COMBINED AT	2I180	1083.	16.33	726.	232.	224.	26.33
+	HYDROGRAPH AT	D133	145.	14.33	71.	20.	19.	14.48
+	ROUTED TO	R133	132.	16.08	66.	18.	18.	14.48

+	HYDROGRAPH AT	147	342.	13.00	72.	18.	17.	.50
+	2 COMBINED AT	1I147	337.	13.00	118.	36.	35.	14.62
+	HYDROGRAPH AT	D134	2060.	14.00	741.	193.	186.	15.42
+	ROUTED TO	R134	1983.	14.42	736.	193.	186.	15.42
+	2 COMBINED AT	CP147	2010.	14.42	818.	229.	220.	15.92
+	DIVERSION TO	DI166	1943.	14.42	801.	224.	216.	15.92
+	HYDROGRAPH AT	D147	66.	14.42	17.	4.	4.	15.92
+	ROUTED TO	R147	49.	15.17	17.	4.	4.	15.92
+	HYDROGRAPH AT	148	328.	13.00	71.	18.	17.	.48
+	2 COMBINED AT	1I148	323.	13.00	85.	22.	21.	16.40
+	HYDROGRAPH AT	D135	172.	14.08	52.	13.	13.	16.48
+	ROUTED TO	R135	156.	14.75	52.	13.	13.	16.48
+	2 COMBINED AT	CP148	323.	13.00	134.	35.	34.	17.46
+	DIVERSION TO	DI150	49.	13.00	20.	5.	5.	17.46
+	HYDROGRAPH AT	D148	274.	13.00	113.	29.	28.	17.46
+	ROUTED TO	R148	195.	14.08	109.	29.	28.	17.46
+	HYDROGRAPH AT	D147	1943.	14.42	801.	224.	216.	15.92
+	ROUTED TO	R147	1826.	15.58	794.	218.	210.	15.92
+	HYDROGRAPH AT	D166	1201.	14.08	573.	144.	138.	18.49
+	ROUTED TO	R146	1058.	15.67	534.	143.	137.	18.49
+	HYDROGRAPH AT	166	533.	13.33	142.	36.	34.	.98
+	2 COMBINED AT	1I166	1071.	15.67	598.	177.	170.	19.47
+	2 COMBINED AT	2I166	2869.	15.58	1319.	392.	378.	20.91
+	2 COMBINED AT	CP166	3003.	15.58	1395.	420.	405.	22.45
+	DIVERSION TO	DI167	2591.	15.58	1250.	383.	369.	22.45
+	HYDROGRAPH AT	D166	412.	15.58	146.	38.	36.	22.45
+	ROUTED TO	R166	400.	16.17	146.	38.	36.	22.45
+	2 COMBINED AT	CP180	1460.	16.25	851.	267.	257.	30.29
+	DIVERSION TO	1D195	1230.	16.25	725.	229.	221.	30.29
+	HYDROGRAPH AT	D180	230.	16.25	126.	38.	37.	30.29
+	ROUTED TO	R180	227.	16.67	125.	38.	37.	30.29

+	HYDROGRAPH AT	181	283.	12.92	54.	14.	13.	.37
+	2 COMBINED AT	CP181	280.	12.92	158.	51.	49.	30.66
+	DIVERSION TO	2D195	280.	12.92	158.	51.	49.	30.66
+	HYDROGRAPH AT	D181	0.	.08	0.	0.	0.	30.66
+	ROUTED TO	R181	0.	.08	0.	0.	0.	30.66
+	HYDROGRAPH AT	182	212.	12.75	35.	9.	9.	.24
+	2 COMBINED AT	1I182	204.	12.75	34.	8.	8.	30.90
+	HYDROGRAPH AT	D148	49.	13.00	20.	5.	5.	17.46
+	ROUTED TO	R148	40.	13.67	20.	5.	5.	17.46
+	HYDROGRAPH AT	150	193.	12.75	33.	8.	8.	.23
+	2 COMBINED AT	CP150	196.	12.75	51.	13.	13.	17.69
+	ROUTED TO	R150	172.	13.17	51.	13.	13.	17.69
+	HYDROGRAPH AT	151	208.	12.75	36.	9.	9.	.25
+	2 COMBINED AT	1I151	312.	12.92	85.	22.	21.	17.94
+	HYDROGRAPH AT	D137	435.	14.50	265.	76.	74.	21.72
+	ROUTED TO	R137	428.	14.75	263.	76.	73.	21.72
+	HYDROGRAPH AT	149	312.	13.08	68.	17.	16.	.48
+	2 COMBINED AT	CP149	533.	13.58	316.	93.	89.	22.20
+	ROUTED TO	R149	524.	13.92	314.	92.	89.	22.20
+	2 COMBINED AT	CP151	638.	13.75	388.	114.	110.	23.66
+	DIVERSION TO	1D168	205.	13.75	122.	34.	33.	23.66
+	HYDROGRAPH AT	D151	433.	13.75	266.	80.	77.	23.66
+	DIVERSION TO	DI152	205.	13.75	122.	34.	33.	23.66
+	HYDROGRAPH AT	D151	228.	13.75	144.	46.	44.	23.66
+	ROUTED TO	R151	223.	14.42	142.	44.	43.	23.66
+	HYDROGRAPH AT	167	528.	13.33	141.	35.	34.	.97
+	2 COMBINED AT	1I167	589.	13.42	263.	78.	76.	24.63
+	HYDROGRAPH AT	D166	2591.	15.58	1250.	383.	369.	22.45
+	ROUTED TO	R166	2552.	15.92	1249.	380.	366.	22.45
+	2 COMBINED AT	CP167	2720.	15.92	1446.	457.	440.	25.61
+	DIVERSION TO	1D183	815.	15.92	390.	108.	104.	25.61

+	HYDROGRAPH AT	D167	1905.	15.92	1056.	349.	336.	25.61
+	DIVERSION TO	2D168	194.	15.92	84.	23.	22.	25.61
+	HYDROGRAPH AT	D167	1711.	15.92	972.	326.	314.	25.61
+	ROUTED TO	R167	1688.	16.25	971.	324.	312.	25.61
+	HYDROGRAPH AT	181A	249.	13.17	57.	14.	14.	.39
+	2 COMBINED AT	CP181A	1687.	16.25	992.	337.	325.	26.00
+	DIVERSION TO	2D183	471.	16.25	224.	69.	67.	26.00
+	HYDROGRAPH AT	D181A	1216.	16.25	768.	268.	258.	26.00
+	ROUTED TO	R181A	1206.	16.50	767.	265.	255.	26.00
+	2 COMBINED AT	CP182	1192.	16.50	760.	271.	261.	38.46
+	DIVERSION TO	DI196	589.	16.50	381.	136.	131.	38.46
+	HYDROGRAPH AT	D182	603.	16.50	379.	135.	130.	38.46
+	ROUTED TO	R182	587.	17.33	378.	129.	124.	38.46
+	HYDROGRAPH AT	D151	205.	13.75	122.	34.	33.	23.66
+	ROUTED TO	R151	203.	14.08	121.	34.	33.	23.66
+	HYDROGRAPH AT	152	284.	12.92	58.	15.	14.	.35
+	2 COMBINED AT	CP152	320.	13.25	170.	48.	46.	24.01
+	DIVERSION TO	1D169	0.	.08	0.	0.	0.	24.01
+	HYDROGRAPH AT	D152	320.	13.25	170.	48.	46.	24.01
+	DIVERSION TO	DI155	0.	.08	0.	0.	0.	24.01
+	HYDROGRAPH AT	D152	320.	13.25	170.	48.	46.	24.01
+	ROUTED TO	R152	312.	13.83	167.	48.	46.	24.01
+	HYDROGRAPH AT	D151	205.	13.75	122.	34.	33.	23.66
+	ROUTED TO	R151	199.	15.67	110.	31.	30.	23.66
+	HYDROGRAPH AT	168	340.	13.17	79.	20.	19.	.51
+	2 COMBINED AT	1I168	330.	13.17	144.	50.	49.	24.17
+	HYDROGRAPH AT	D167	194.	15.92	84.	23.	22.	25.61
+	ROUTED TO	R167	190.	16.42	83.	23.	22.	25.61
+	2 COMBINED AT	2I168	354.	16.33	215.	73.	71.	26.12
+	2 COMBINED AT	CP168	515.	13.50	379.	121.	116.	26.47
+	DIVERSION TO	2D169	140.	13.50	94.	29.	28.	26.47

+	HYDROGRAPH AT	D168	375.	13.50	285.	92.	89.	26.47
+	ROUTED TO	R168	369.	13.83	284.	91.	88.	26.47
+	HYDROGRAPH AT	D167	815.	15.92	390.	108.	104.	25.61
+	ROUTED TO	R167	811.	16.33	389.	108.	104.	25.61
+	HYDROGRAPH AT	183	258.	12.42	31.	8.	8.	.21
+	2 COMBINED AT	1I183	811.	16.33	389.	115.	111.	25.82
+	HYDROGRAPH AT	D181A	471.	16.25	224.	69.	67.	26.00
+	ROUTED TO	R181A	469.	16.33	224.	69.	66.	26.00
+	2 COMBINED AT	2I183	1279.	16.33	608.	184.	177.	26.21
+	2 COMBINED AT	CP183	1616.	16.42	877.	275.	265.	27.07
+	ROUTED TO	R183	1588.	17.33	874.	266.	256.	27.07
+	HYDROGRAPH AT	184	531.	13.17	124.	31.	30.	.79
+	2 COMBINED AT	1I184	1586.	17.33	877.	296.	285.	27.86
+	2 COMBINED AT	2I184	2146.	17.33	1237.	420.	405.	40.32
+	HYDROGRAPH AT	D152	0.	.08	0.	0.	0.	24.01
+	ROUTED TO	R152	0.	.08	0.	0.	0.	24.01
+	HYDROGRAPH AT	155	250.	12.75	47.	12.	11.	.26
+	2 COMBINED AT	CP155	243.	12.75	45.	11.	11.	24.27
+	ROUTED TO	R155	189.	13.92	45.	11.	11.	24.27
+	HYDROGRAPH AT	D152	0.	.08	0.	0.	0.	24.01
+	ROUTED TO	R152	0.	.08	0.	0.	0.	24.01
+	HYDROGRAPH AT	169	368.	13.17	89.	22.	21.	.51
+	2 COMBINED AT	1I169	357.	13.17	86.	22.	21.	24.52
+	2 COMBINED AT	2I169	359.	13.83	131.	33.	32.	25.13
+	HYDROGRAPH AT	D168	140.	13.50	94.	29.	28.	26.47
+	ROUTED TO	R168	137.	14.00	93.	28.	27.	26.47
+	2 COMBINED AT	CP169	491.	13.83	209.	61.	59.	27.24
+	ROUTED TO	R169	442.	14.50	205.	60.	58.	27.24
+	2 COMBINED AT	CP184	2270.	17.33	1394.	479.	461.	41.09
+	DIVERSION TO	DI197	908.	17.33	557.	191.	184.	41.09
+	HYDROGRAPH AT	D184	1362.	17.33	837.	287.	277.	41.09

+	DIVERSION TO	DI198	908.	17.33	557.	191.	184.	41.09
+	HYDROGRAPH AT	D184	454.	17.33	280.	96.	92.	41.09
+	ROUTED TO	R184	449.	17.75	279.	94.	91.	41.09
+	HYDROGRAPH AT	170	301.	12.67	53.	14.	13.	.29
+	ROUTED TO	R170	237.	13.75	52.	14.	13.	.29
+	HYDROGRAPH AT	185	465.	13.08	103.	26.	25.	.69
+	2 COMBINED AT	1I185	487.	13.58	154.	39.	38.	.98
+	2 COMBINED AT	CP185	552.	13.67	350.	131.	127.	42.07
+	ROUTED TO	R185	426.	15.25	333.	120.	115.	42.07
+	HYDROGRAPH AT	D184	908.	17.33	557.	191.	184.	41.09
+	ROUTED TO	R184	903.	18.67	555.	170.	164.	41.09
+	HYDROGRAPH AT	198	494.	13.42	140.	35.	34.	.91
+	2 COMBINED AT	1I198	902.	18.67	556.	203.	196.	42.00
+	2 COMBINED AT	2I198	1194.	18.92	860.	322.	310.	42.98
+	HYDROGRAPH AT	D184	908.	17.33	557.	191.	184.	41.09
+	ROUTED TO	R184	894.	18.08	555.	182.	175.	41.09
+	HYDROGRAPH AT	197	524.	13.50	150.	38.	36.	1.00
+	2 COMBINED AT	CP197	894.	18.08	564.	217.	209.	42.09
+	ROUTED TO	R197	878.	18.50	564.	210.	203.	42.09
+	HYDROGRAPH AT	203	162.	12.25	14.	4.	3.	.11
+	2 COMBINED AT	CP203	878.	18.50	564.	214.	206.	42.20
+	2 COMBINED AT	CP198	2054.	18.67	1416.	535.	516.	44.09
+	ROUTED TO	R198	2044.	18.83	1415.	531.	511.	44.09
+	HYDROGRAPH AT	204	381.	12.25	32.	8.	8.	.27
+	2 COMBINED AT	1I204	2044.	18.83	1415.	538.	518.	44.36
+	HYDROGRAPH AT	174	612.	12.25	55.	14.	13.	.45
+	ROUTED TO	R174	410.	12.75	55.	14.	13.	.45
+	HYDROGRAPH AT	175	375.	12.25	34.	9.	8.	.28
+	DIVERSION TO	DI175A	375.	12.25	34.	9.	8.	.28
+	HYDROGRAPH AT	D175	0.	.08	0.	0.	0.	.28
+	ROUTED TO	R175	0.	.08	0.	0.	0.	.28

+	HYDROGRAPH AT	176	701.	12.42	79.	20.	19.	.67
+	2 COMBINED AT	1I176	700.	12.42	79.	20.	19.	.95
+	2 COMBINED AT	CP176	792.	12.50	134.	34.	32.	1.40
+	ROUTED TO	R176	708.	12.92	134.	34.	32.	1.40
+	HYDROGRAPH AT	D175	375.	12.25	34.	9.	8.	.28
+	ROUTED TO	R175	342.	12.42	34.	9.	8.	.28
+	HYDROGRAPH AT	175A	362.	12.50	42.	10.	10.	.47
+	2 COMBINED AT	CP175A	687.	12.42	76.	19.	18.	.75
+	ROUTED TO	R175A	650.	12.67	76.	19.	18.	.75
+	HYDROGRAPH AT	CP3	490.	12.92	60.	15.	14.	4.86
+	ROUTED TO	RCP3	379.	13.42	60.	15.	14.	4.86
+	2 COMBINED AT	1I189	650.	12.67	135.	34.	33.	5.61
+	HYDROGRAPH AT	189	521.	12.42	57.	14.	14.	.51
+	2 COMBINED AT	CP189	943.	12.58	192.	48.	46.	1.26
+	ROUTED TO	R189	795.	13.17	192.	48.	46.	1.26
+	HYDROGRAPH AT	190	657.	12.92	128.	32.	31.	.86
+	2 COMBINED AT	CP190	1340.	13.08	320.	80.	77.	2.12
+	ROUTED TO	R190	1283.	13.33	319.	80.	77.	2.12
+	HYDROGRAPH AT	D176A	0.	.08	0.	0.	0.	3.09
+	ROUTED TO	R176A	0.	.08	0.	0.	0.	3.09
+	3 COMBINED AT	1I191	1777.	13.25	452.	113.	109.	6.33
+	HYDROGRAPH AT	191	610.	13.25	149.	37.	36.	.99
+	2 COMBINED AT	CP191	2384.	13.25	599.	150.	145.	7.32
+	DIVERSION TO	DI208	1339.	12.83	492.	124.	119.	7.32
+	HYDROGRAPH AT	CP191	1045.	13.25	107.	27.	26.	7.32
+	ROUTED TO	R191	959.	13.50	107.	27.	26.	7.32
+	HYDROGRAPH AT	192A	345.	13.08	75.	19.	18.	.50
+	2 COMBINED AT	CP192A	1173.	13.50	182.	45.	44.	7.82
+	ROUTED TO	R192A	1128.	13.75	182.	45.	44.	7.82
+	HYDROGRAPH AT	192	346.	13.08	75.	19.	18.	.50
+	2 COMBINED AT	CP192	1287.	13.67	256.	64.	62.	8.32

+	DIVERSION TO	DI209	1153.	13.67	230.	57.	55.	8.32
+	HYDROGRAPH AT	D192	134.	13.67	27.	7.	6.	8.32
+	DIVERSION TO	DI210	0.	.08	0.	0.	0.	8.32
+	HYDROGRAPH AT	D192	134.	13.67	27.	7.	6.	8.32
+	ROUTED TO	R192	127.	14.00	27.	7.	6.	8.32
+	HYDROGRAPH AT	193	545.	13.25	132.	33.	32.	.91
+	2 COMBINED AT	1I193	596.	13.25	156.	39.	38.	14.09
+	HYDROGRAPH AT	D179	1000.	13.75	634.	190.	183.	25.34
+	ROUTED TO	R179	996.	14.42	629.	189.	182.	25.34
+	2 COMBINED AT	2I193	1248.	14.17	722.	225.	217.	36.34
+	HYDROGRAPH AT	D179	841.	13.83	399.	100.	97.	25.34
+	ROUTED TO	R179	660.	15.08	369.	99.	95.	25.34
+	2 COMBINED AT	CP193	1624.	14.75	1058.	323.	311.	36.34
+	ROUTED TO	SR193	431.	19.50	416.	180.	174.	36.34
+	DIVERSION TO	DI212	0.	.08	0.	0.	0.	36.34
+	HYDROGRAPH AT	D193	431.	19.50	416.	180.	174.	36.34
+	ROUTED TO	R193	431.	19.58	416.	179.	172.	36.34
+	HYDROGRAPH AT	194	535.	13.42	144.	36.	35.	.99
+	2 COMBINED AT	CP194	638.	13.42	416.	213.	206.	37.33
+	ROUTED TO	R194	629.	13.50	415.	210.	204.	37.33
+	HYDROGRAPH AT	D180	1230.	16.25	725.	229.	221.	30.29
+	ROUTED TO	R180	1198.	17.58	707.	212.	205.	30.29
+	HYDROGRAPH AT	195	256.	13.50	72.	18.	17.	.49
+	2 COMBINED AT	1I195	1192.	17.58	707.	229.	221.	35.64
+	HYDROGRAPH AT	D181	280.	12.92	158.	51.	49.	30.66
+	ROUTED TO	R181	258.	13.17	157.	51.	49.	30.66
+	3 COMBINED AT	CP195	1753.	17.67	1207.	485.	468.	43.14
+	DIVERSION TO	1D201	0.	.08	0.	0.	0.	43.14
+	HYDROGRAPH AT	D195	1753.	17.67	1207.	485.	468.	43.14
+	ROUTED TO	R195	1754.	17.67	1207.	483.	467.	43.14
+	HYDROGRAPH AT	D182	589.	16.50	381.	136.	131.	38.46

+	ROUTED TO	R182	579.	17.25	380.	131.	126.	38.46
+	HYDROGRAPH AT	196	313.	13.00	68.	17.	17.	.47
+	2 COMBINED AT	1I196	579.	17.25	383.	148.	142.	38.93
+	2 COMBINED AT	CP196	2280.	17.58	1561.	626.	604.	51.75
+	DIVERSION TO	1D226	0.	.08	0.	0.	0.	51.75
+	HYDROGRAPH AT	D196	2280.	17.58	1561.	626.	604.	51.75
+	ROUTED TO	R196	2268.	17.75	1559.	620.	598.	51.75
+	HYDROGRAPH AT	202	258.	13.42	73.	18.	18.	.48
+	2 COMBINED AT	CP202	2267.	17.75	1560.	637.	615.	52.23
+	DIVERSION TO	2D226	0.	.08	0.	0.	0.	52.23
+	HYDROGRAPH AT	D202	2267.	17.75	1560.	637.	615.	52.23
+	ROUTED TO	R202	2262.	17.92	1559.	631.	610.	52.23
+	2 COMBINED AT	CP204	3968.	18.75	2943.	1160.	1119.	58.13
+	ROUTED TO	R204	3963.	18.75	2943.	1158.	1117.	58.13
+	HYDROGRAPH AT	205	125.	12.08	8.	2.	2.	.06
+	2 COMBINED AT	CP205	3963.	18.75	2943.	1160.	1119.	58.19
+	ROUTED TO	R205	3962.	18.83	2942.	1158.	1117.	58.19
+	HYDROGRAPH AT	206	188.	12.17	14.	3.	3.	.12
+	2 COMBINED AT	CP206	3962.	18.83	2942.	1161.	1120.	58.31
+	ROUTED TO	RCP206	3909.	19.00	2938.	1145.	1104.	58.31
+	HYDROGRAPH AT	228A	125.	12.17	8.	2.	2.	.08
+	2 COMBINED AT	RC228A	3909.	19.00	2938.	1147.	1106.	68.77
+	ROUTED TO	RR228A	3804.	19.75	2911.	1058.	1021.	68.77
+	DIVERSION TO	DR228A	3804.	19.75	2911.	1058.	1021.	68.77
+	HYDROGRAPH AT	DR228A	0.	.08	0.	0.	0.	68.77
+	HYDROGRAPH AT	CP10	1486.	12.75	193.	48.	46.	10.87
+	ROUTED TO	R10	1454.	12.83	193.	48.	46.	10.87
+	HYDROGRAPH AT	188	240.	12.25	19.	5.	5.	.19
+	2 COMBINED AT	CP188	1457.	12.83	212.	53.	51.	11.06
+	ROUTED TO	R188	1412.	13.00	212.	53.	51.	11.06
+	HYDROGRAPH AT	207A	469.	12.42	48.	12.	12.	.50

+	2 COMBINED AT	CP207A	1450.	13.00	259.	65.	62.	11.56
+	ROUTED TO	R207A	1391.	13.08	259.	65.	62.	11.56
+	HYDROGRAPH AT	214	208.	12.25	18.	5.	4.	.16
+	2 COMBINED AT	CP214	1392.	13.08	276.	69.	67.	11.72
+	ROUTED TO	R214	1367.	13.17	276.	69.	67.	11.72
+	HYDROGRAPH AT	215A	497.	12.42	55.	14.	13.	.45
+	ROUTED TO	R215A	477.	12.50	55.	14.	13.	.45
+	HYDROGRAPH AT	215	419.	12.33	44.	11.	11.	.35
+	2 COMBINED AT	1I215	874.	12.42	99.	25.	24.	.80
+	2 COMBINED AT	CP215	1484.	12.42	373.	93.	90.	12.52
+	ROUTED TO	R215	1371.	12.67	373.	93.	90.	12.52
+	HYDROGRAPH AT	233	496.	12.42	56.	14.	13.	.50
+	2 COMBINED AT	CP233	1685.	12.58	427.	107.	103.	13.02
+	ROUTED TO	R233	1598.	12.75	426.	107.	103.	13.02
+	HYDROGRAPH AT	216	366.	12.92	69.	17.	17.	.51
+	ROUTED TO	R216	350.	13.08	69.	17.	17.	.51
+	HYDROGRAPH AT	234	347.	13.17	81.	20.	19.	.53
+	2 COMBINED AT	1I234	689.	13.08	150.	37.	36.	1.04
+	2 COMBINED AT	CP234	2084.	12.83	572.	143.	138.	14.06
+	DIVERSION TO	1D248	990.	12.83	225.	56.	54.	14.06
+	HYDROGRAPH AT	D234	1094.	12.83	347.	87.	84.	14.06
+	ROUTED TO	R234	1000.	13.42	347.	87.	84.	14.06
+	HYDROGRAPH AT	207	619.	13.25	153.	38.	37.	1.00
+	DIVERSION TO	2D208	476.	13.25	118.	29.	28.	1.00
+	HYDROGRAPH AT	D207	143.	13.25	35.	9.	9.	1.00
+	ROUTED TO	R207	122.	13.92	35.	9.	9.	1.00
+	HYDROGRAPH AT	217	350.	13.00	76.	19.	18.	.49
+	2 COMBINED AT	CP217	372.	13.08	111.	28.	27.	1.49
+	DIVERSION TO	DI218	91.	13.08	38.	9.	9.	1.49
+	HYDROGRAPH AT	D217	281.	13.08	73.	18.	18.	1.49
+	ROUTED TO	R217	258.	13.58	73.	18.	18.	1.49

+	HYDROGRAPH AT	235	303.	13.17	71.	18.	17.	.47
+	2 COMBINED AT	1I235	483.	13.42	144.	36.	35.	1.96
+	2 COMBINED AT	CP235	1467.	13.42	486.	122.	117.	16.02
+	DIVERSION TO	2D248	770.	13.42	237.	59.	57.	16.02
+	HYDROGRAPH AT	D235	697.	13.42	249.	63.	60.	16.02
+	ROUTED TO	R235	680.	13.83	247.	63.	60.	16.02
+	HYDROGRAPH AT	D191	1339.	12.83	492.	124.	119.	7.32
+	ROUTED TO	R191	1339.	13.83	490.	124.	119.	7.32
+	HYDROGRAPH AT	208	632.	13.17	149.	37.	36.	1.00
+	2 COMBINED AT	1I208	1929.	13.25	636.	161.	155.	8.32
+	HYDROGRAPH AT	D207	476.	13.25	118.	29.	28.	1.00
+	ROUTED TO	R207	428.	13.75	118.	29.	28.	1.00
+	2 COMBINED AT	CP208	2188.	13.33	753.	190.	183.	9.32
+	DIVERSION TO	1D219	628.	13.33	298.	76.	73.	9.32
+	HYDROGRAPH AT	D208	1560.	13.33	454.	114.	110.	9.32
+	DIVERSION TO	DI209A	1551.	13.33	452.	114.	110.	9.32
+	HYDROGRAPH AT	D208	8.	13.33	2.	1.	1.	9.32
+	ROUTED TO	R208	8.	14.17	2.	1.	1.	9.32
+	HYDROGRAPH AT	218	624.	13.25	153.	38.	37.	1.00
+	2 COMBINED AT	1I218	621.	13.25	154.	39.	37.	10.32
+	HYDROGRAPH AT	D217	91.	13.08	38.	9.	9.	1.49
+	ROUTED TO	R217	86.	13.83	38.	9.	9.	1.49
+	2 COMBINED AT	CP218	676.	13.25	191.	48.	46.	10.81
+	DIVERSION TO	DI237	424.	13.25	133.	33.	32.	10.81
+	HYDROGRAPH AT	D218	252.	13.25	58.	14.	14.	10.81
+	DIVERSION TO	2D219	59.	13.25	14.	3.	3.	10.81
+	HYDROGRAPH AT	D218	193.	13.25	44.	11.	11.	10.81
+	ROUTED TO	R218	181.	13.50	44.	11.	11.	10.81
+	HYDROGRAPH AT	236	582.	13.25	146.	37.	35.	1.00
+	2 COMBINED AT	1I236	721.	13.33	190.	48.	46.	10.32
+	2 COMBINED AT	CP236	1222.	13.58	425.	108.	104.	26.34

+	DIVERSION TO	DI249	325.	13.58	78.	20.	19.	26.34
+	HYDROGRAPH AT	D236	898.	13.58	346.	88.	85.	26.34
+	DIVERSION TO	1D250	403.	13.58	116.	29.	28.	26.34
+	HYDROGRAPH AT	D236	495.	13.58	230.	59.	57.	26.34
+	ROUTED TO	R236	491.	13.67	230.	59.	57.	26.34
+	HYDROGRAPH AT	209A	335.	13.08	75.	19.	18.	.50
+	HYDROGRAPH AT	D208	1551.	13.33	452.	114.	110.	9.32
+	ROUTED TO	R208	1526.	13.67	452.	114.	110.	9.32
+	2 COMBINED AT	CP209A	1720.	13.50	526.	133.	128.	9.82
+	DIVERSION TO	1D220	641.	13.50	207.	52.	50.	9.82
+	HYDROGRAPH AT	D209A	1079.	13.50	319.	80.	77.	9.82
+	DIVERSION TO	2D209	290.	13.50	83.	21.	20.	9.82
+	HYDROGRAPH AT	D209A	789.	13.50	236.	59.	57.	9.82
+	ROUTED TO	R209A	775.	14.00	236.	59.	57.	9.82
+	HYDROGRAPH AT	D208	628.	13.33	298.	76.	73.	9.32
+	ROUTED TO	R208	614.	14.83	279.	74.	71.	9.32
+	HYDROGRAPH AT	219	343.	13.08	76.	19.	18.	.50
+	2 COMBINED AT	1I219	632.	14.75	324.	93.	90.	9.82
+	2 COMBINED AT	2I219	1250.	14.58	558.	152.	147.	10.32
+	HYDROGRAPH AT	D218	59.	13.25	14.	3.	3.	10.81
+	ROUTED TO	R218	52.	14.00	14.	3.	3.	10.81
+	2 COMBINED AT	CP219	1281.	14.58	570.	155.	149.	11.81
+	DIVERSION TO	DI238	901.	14.58	412.	115.	111.	11.81
+	HYDROGRAPH AT	D219	380.	14.58	158.	40.	39.	11.81
+	DIVERSION TO	2D220	157.	14.58	65.	16.	16.	11.81
+	HYDROGRAPH AT	D219	223.	14.58	93.	24.	23.	11.81
+	ROUTED TO	R219	203.	15.50	91.	24.	23.	11.81
+	HYDROGRAPH AT	D218	424.	13.25	133.	33.	32.	10.81
+	ROUTED TO	R218	383.	14.00	131.	33.	32.	10.81
+	HYDROGRAPH AT	237	300.	13.25	73.	18.	18.	.50
+	2 COMBINED AT	1I237	519.	13.83	197.	51.	50.	11.31

+	2 COMBINED AT	2I237	525.	13.92	278.	75.	72.	12.31
+	2 COMBINED AT	CP237	993.	13.83	500.	132.	128.	27.84
+	DIVERSION TO	2D250	301.	13.83	88.	22.	21.	27.84
+	HYDROGRAPH AT	D237	692.	13.83	412.	110.	106.	27.84
+	DIVERSION TO	1D250A	306.	13.83	129.	32.	31.	27.84
+	HYDROGRAPH AT	D237	386.	13.83	283.	78.	75.	27.84
+	ROUTED TO	R237	385.	13.92	283.	78.	75.	27.84
+	HYDROGRAPH AT	1D192	1153.	13.67	230.	57.	55.	8.32
+	ROUTED TO	R192	1002.	14.08	230.	57.	55.	8.32
+	HYDROGRAPH AT	209	336.	13.08	73.	18.	17.	.50
+	2 COMBINED AT	1I209	1065.	14.08	301.	76.	73.	8.82
+	HYDROGRAPH AT	D209A	290.	13.50	83.	21.	20.	9.82
+	ROUTED TO	R209A	286.	13.92	83.	21.	20.	9.82
+	2 COMBINED AT	CP209	1331.	14.08	381.	95.	92.	11.32
+	DIVERSION TO	1D221	569.	14.08	174.	44.	42.	11.32
+	HYDROGRAPH AT	D209	762.	14.08	207.	52.	50.	11.32
+	DIVERSION TO	2D210	230.	14.08	62.	15.	15.	11.32
+	HYDROGRAPH AT	D209	532.	14.08	146.	36.	35.	11.32
+	ROUTED TO	R209	492.	14.58	145.	36.	35.	11.32
+	HYDROGRAPH AT	D209A	641.	13.50	207.	52.	50.	9.82
+	ROUTED TO	R209A	614.	14.50	206.	52.	50.	9.82
+	HYDROGRAPH AT	220	335.	13.08	75.	19.	18.	.50
+	2 COMBINED AT	1I220	656.	14.42	279.	71.	68.	10.32
+	2 COMBINED AT	2I220	1136.	14.50	421.	107.	103.	11.82
+	HYDROGRAPH AT	D219	157.	14.58	65.	16.	16.	11.81
+	ROUTED TO	R219	156.	14.75	65.	16.	16.	11.81
+	2 COMBINED AT	CP220	1259.	14.58	482.	123.	118.	13.81
+	DIVERSION TO	DI239	740.	14.58	322.	82.	79.	13.81
+	HYDROGRAPH AT	D220	519.	14.58	160.	41.	39.	13.81
+	DIVERSION TO	2D221	415.	14.58	133.	34.	33.	13.81
+	HYDROGRAPH AT	D220	104.	14.58	26.	7.	6.	13.81

+	ROUTED TO	R220	94.	15.50	26.	7.	6.	13.81
+	HYDROGRAPH AT	D219	901.	14.58	412.	115.	111.	11.81
+	ROUTED TO	R219	843.	15.17	409.	114.	110.	11.81
+	HYDROGRAPH AT	238	314.	13.17	72.	18.	17.	.50
+	2 COMBINED AT	1I238	850.	15.17	457.	132.	127.	12.31
+	2 COMBINED AT	2I238	926.	15.25	481.	138.	133.	14.31
+	2 COMBINED AT	CP238	1226.	15.25	751.	213.	205.	30.34
+	DIVERSION TO	2D250A	57.	15.25	20.	5.	5.	30.34
+	HYDROGRAPH AT	D238	1170.	15.25	731.	208.	200.	30.34
+	DIVERSION TO	1D251	160.	15.25	56.	14.	13.	30.34
+	HYDROGRAPH AT	D238	1009.	15.25	676.	194.	187.	30.34
+	ROUTED TO	R238	986.	15.58	674.	194.	187.	30.34
+	HYDROGRAPH AT	2D192	0.	.08	0.	0.	0.	8.32
+	ROUTED TO	R192	0.	.08	0.	0.	0.	8.32
+	HYDROGRAPH AT	210	296.	13.08	64.	16.	16.	.46
+	2 COMBINED AT	1I210	295.	13.08	64.	16.	15.	8.78
+	HYDROGRAPH AT	D209	230.	14.08	62.	15.	15.	11.32
+	ROUTED TO	R209	219.	14.42	62.	15.	15.	11.32
+	2 COMBINED AT	CP210	308.	13.08	125.	31.	30.	11.78
+	ROUTED TO	R210	279.	14.00	125.	31.	30.	11.78
+	HYDROGRAPH AT	D209	569.	14.08	174.	44.	42.	11.32
+	ROUTED TO	R209	499.	15.33	161.	43.	41.	11.32
+	HYDROGRAPH AT	221	303.	13.08	69.	17.	17.	.48
+	2 COMBINED AT	1I221	505.	15.33	206.	60.	57.	11.80
+	2 COMBINED AT	2I221	731.	15.25	329.	91.	87.	12.26
+	HYDROGRAPH AT	D220	415.	14.58	133.	34.	33.	13.81
+	ROUTED TO	R220	403.	14.83	133.	34.	33.	13.81
+	2 COMBINED AT	CP221	1044.	15.17	457.	124.	119.	14.75
+	ROUTED TO	R221	943.	16.33	455.	123.	119.	14.75
+	HYDROGRAPH AT	D220	740.	14.58	322.	82.	79.	13.81
+	ROUTED TO	R220	707.	15.83	302.	80.	77.	13.81

+	HYDROGRAPH AT	239	313.	13.08	69.	17.	17.	.48
+	2 COMBINED AT	1I239	708.	15.75	323.	97.	93.	14.29
+	2 COMBINED AT	2I239	1573.	16.25	766.	220.	212.	15.23
+	2 COMBINED AT	CP239	2367.	16.17	1410.	406.	391.	31.76
+	DIVERSION TO	2D251	1731.	16.17	888.	228.	220.	31.76
+	HYDROGRAPH AT	D239	636.	16.17	522.	178.	172.	31.76
+	ROUTED TO	R239	634.	16.50	521.	178.	171.	31.76
+	HYDROGRAPH AT	240	282.	13.00	57.	14.	14.	.40
+	2 COMBINED AT	CP240	634.	16.50	552.	191.	184.	32.16
+	ROUTED TO	R240	633.	16.67	551.	190.	183.	32.16
+	HYDROGRAPH AT	213	373.	12.50	46.	12.	11.	.35
+	ROUTED TO	R213	225.	13.42	46.	12.	11.	.35
+	HYDROGRAPH AT	212	279.	13.42	77.	19.	19.	.54
+	HYDROGRAPH AT	D193	0.	.08	0.	0.	0.	36.34
+	ROUTED TO	R193	0.	.08	0.	0.	0.	36.34
+	2 COMBINED AT	1I212	279.	13.42	77.	19.	19.	.54
+	ROUTED TO	SR212	200.	13.83	49.	12.	12.	.54
+	2 COMBINED AT	CP212	378.	13.67	95.	24.	23.	.89
+	ROUTED TO	R212	333.	14.50	93.	24.	23.	.89
+	HYDROGRAPH AT	211	309.	13.08	69.	17.	17.	.49
+	ROUTED TO	R211	220.	14.33	68.	17.	17.	.49
+	HYDROGRAPH AT	221A	175.	13.25	43.	11.	10.	.31
+	2 COMBINED AT	1I221A	276.	14.17	109.	28.	27.	.80
+	ROUTED TO	SR221A	271.	14.25	95.	24.	23.	.80
+	2 COMBINED AT	CP221A	589.	14.50	185.	48.	46.	1.69
+	ROUTED TO	R221A	549.	14.92	182.	48.	46.	1.69
+	HYDROGRAPH AT	222	541.	13.58	172.	48.	46.	1.10
+	2 COMBINED AT	CP222	701.	14.83	338.	96.	92.	2.79
+	ROUTED TO	R222	643.	15.58	333.	95.	92.	2.79
+	HYDROGRAPH AT	D202	0.	.08	0.	0.	0.	52.23
+	ROUTED TO	R202	0.	.08	0.	0.	0.	52.23

+	HYDROGRAPH AT	226	1573.	12.33	192.	54.	52.	1.18
+	2 COMBINED AT	1I226	1573.	12.33	192.	54.	52.	1.18
+	HYDROGRAPH AT	D196	0.	.08	0.	0.	0.	51.75
+	2 COMBINED AT	CP226	1573.	12.33	192.	54.	52.	1.18
+	ROUTED TO	SR226	503.	12.75	185.	54.	52.	1.18
+	ROUTED TO	R226	407.	15.17	183.	53.	51.	1.18
+	HYDROGRAPH AT	D195	0.	.08	0.	0.	0.	43.14
+	ROUTED TO	R195	0.	.08	0.	0.	0.	43.14
+	HYDROGRAPH AT	201	420.	12.33	44.	11.	11.	.34
+	2 COMBINED AT	CP201	420.	12.33	44.	11.	11.	.34
+	ROUTED TO	R201	226.	13.75	44.	11.	11.	.34
+	HYDROGRAPH AT	223	1763.	12.42	327.	110.	106.	1.26
+	2 COMBINED AT	1I223	1763.	12.42	367.	121.	117.	1.60
+	2 COMBINED AT	CP223	1775.	12.42	519.	174.	168.	2.78
+	DIVERSION TO	DI225	60.	8.67	60.	50.	48.	2.78
+	HYDROGRAPH AT	D223	1715.	12.42	459.	124.	120.	2.78
+	ROUTED TO	R223	1589.	12.67	457.	124.	120.	2.78
+	HYDROGRAPH AT	224	1054.	12.33	109.	27.	26.	.80
+	2 COMBINED AT	CP224	2138.	12.50	564.	151.	146.	3.58
+	ROUTED TO	R224	1978.	12.92	552.	151.	146.	3.58
+	HYDROGRAPH AT	241	1436.	12.50	176.	44.	42.	1.51
+	2 COMBINED AT	1I241	2565.	12.83	707.	195.	188.	5.09
+	2 COMBINED AT	2I241	2592.	12.83	1015.	290.	279.	7.88
+	2 COMBINED AT	CP241	2721.	12.83	1457.	464.	447.	40.04
+	ROUTED TO	SR241	2723.	12.92	1457.	464.	447.	40.04
+	ROUTED TO	R241	2412.	13.33	1448.	461.	444.	40.04
+	HYDROGRAPH AT	253	641.	13.17	148.	37.	36.	1.00
+	2 COMBINED AT	1I253	2937.	13.25	1565.	496.	478.	41.04
+	HYDROGRAPH AT	253A	291.	12.33	29.	7.	7.	.25
+	ROUTED TO	R253A	190.	13.08	29.	7.	7.	.25
+	2 COMBINED AT	2I253	3097.	13.25	1593.	503.	485.	41.20

+	HYDROGRAPH AT	247	330.	13.08	76.	19.	18.	.50
+	DIVERSION TO	DI261	0.	.08	0.	0.	0.	.50
+	HYDROGRAPH AT	D247	330.	13.08	76.	19.	18.	.50
+	ROUTED TO	R247	303.	13.50	76.	19.	18.	.50
+	HYDROGRAPH AT	248	592.	13.25	152.	38.	37.	1.00
+	HYDROGRAPH AT	D234	990.	12.83	225.	56.	54.	14.06
+	ROUTED TO	R234	841.	13.67	225.	56.	54.	14.06
+	2 COMBINED AT	1I248	1313.	13.42	372.	93.	90.	15.06
+	2 COMBINED AT	2I248	1592.	13.50	443.	111.	107.	17.52
+	HYDROGRAPH AT	D235	770.	13.42	237.	59.	57.	16.02
+	ROUTED TO	R235	726.	14.00	237.	59.	57.	16.02
+	2 COMBINED AT	CP248	2212.	13.67	690.	173.	166.	12.55
+	DIVERSION TO	DI262	1988.	13.67	640.	160.	154.	12.55
+	HYDROGRAPH AT	D248	224.	13.67	50.	13.	12.	12.55
+	ROUTED TO	R248	211.	14.33	50.	13.	12.	12.55
+	HYDROGRAPH AT	249	571.	13.25	143.	36.	35.	1.00
+	2 COMBINED AT	1I249	559.	13.25	188.	47.	45.	18.52
+	HYDROGRAPH AT	D236	325.	13.58	78.	20.	19.	26.34
+	ROUTED TO	R236	320.	13.83	78.	20.	19.	26.34
+	2 COMBINED AT	CP249	694.	14.00	262.	66.	63.	28.84
+	DIVERSION TO	DI264	77.	14.00	24.	6.	6.	28.84
+	HYDROGRAPH AT	D249	616.	14.00	238.	60.	57.	28.84
+	ROUTED TO	R249	611.	14.25	238.	60.	57.	28.84
+	HYDROGRAPH AT	D236	403.	13.58	116.	29.	28.	26.34
+	ROUTED TO	R236	308.	16.08	105.	28.	27.	26.34
+	HYDROGRAPH AT	250	316.	13.08	71.	18.	17.	.49
+	2 COMBINED AT	1I250	308.	16.08	145.	45.	43.	26.83
+	HYDROGRAPH AT	D237	301.	13.83	88.	22.	21.	27.84
+	ROUTED TO	R237	277.	14.58	87.	22.	21.	27.84
+	2 COMBINED AT	2I250	411.	16.08	231.	67.	64.	28.33
+	2 COMBINED AT	CP250	909.	14.42	466.	126.	121.	30.83

+	ROUTED TO	R250	899.	14.67	466.	126.	121.	30.83
+	HYDROGRAPH AT	D237	306.	13.83	129.	32.	31.	27.84
+	ROUTED TO	R237	296.	14.58	129.	32.	31.	27.84
+	HYDROGRAPH AT	250A	308.	13.17	74.	18.	18.	.51
+	2 COMBINED AT	1I250A	342.	14.33	195.	50.	48.	28.35
+	HYDROGRAPH AT	D238	57.	15.25	20.	5.	5.	30.34
+	ROUTED TO	R238	56.	15.58	20.	5.	5.	30.34
+	2 COMBINED AT	2I250A	366.	14.58	214.	55.	53.	30.85
+	2 COMBINED AT	CP250A	1254.	14.58	675.	180.	173.	33.84
+	DIVERSION TO	DI265A	3.	14.58	1.	0.	0.	33.84
+	HYDROGRAPH AT	D250A	1251.	14.58	674.	180.	173.	33.84
+	DIVERSION TO	1D266	276.	14.58	48.	12.	12.	33.84
+	HYDROGRAPH AT	D250A	975.	14.58	626.	168.	161.	33.84
+	ROUTED TO	R250A	971.	14.75	625.	167.	161.	33.84
+	HYDROGRAPH AT	D238	160.	15.25	56.	14.	13.	30.34
+	ROUTED TO	R238	138.	17.50	50.	13.	13.	30.34
+	HYDROGRAPH AT	251	313.	13.17	72.	18.	17.	.50
+	2 COMBINED AT	1I251	301.	13.17	87.	30.	29.	30.84
+	HYDROGRAPH AT	D239	1731.	16.17	888.	228.	220.	31.76
+	ROUTED TO	R239	1713.	16.50	880.	228.	219.	31.76
+	2 COMBINED AT	2I251	1711.	16.50	937.	258.	249.	32.26
+	2 COMBINED AT	CP251	2394.	16.50	1543.	424.	408.	35.76
+	DIVERSION TO	2D266	1948.	16.50	1264.	346.	333.	35.76
+	HYDROGRAPH AT	D251	446.	16.50	279.	78.	75.	35.76
+	ROUTED TO	R251	435.	16.83	277.	78.	75.	35.76
+	HYDROGRAPH AT	252	326.	13.17	76.	19.	18.	.50
+	2 COMBINED AT	CP252	435.	16.83	325.	96.	92.	36.66
+	DIVERSION TO	DI267	411.	16.83	308.	91.	88.	36.66
+	HYDROGRAPH AT	D252	23.	16.83	17.	5.	4.	36.66
+	ROUTED TO	R252	17.	21.25	13.	3.	3.	36.66
+	2 COMBINED AT	CP253	3097.	13.25	1593.	506.	488.	46.19

+	ROUTED TO	SR253	3057.	13.33	1571.	504.	485.	46.19
+	ROUTED TO	R253	2956.	13.67	1564.	503.	484.	46.19
+	HYDROGRAPH AT	268	589.	13.25	147.	37.	35.	.95
+	2 COMBINED AT	1I268	3347.	13.58	1662.	537.	517.	47.14
+	HYDROGRAPH AT	D250A	276.	14.58	48.	12.	12.	33.84
+	ROUTED TO	R250A	247.	15.42	48.	12.	12.	33.84
+	HYDROGRAPH AT	266	181.	13.33	48.	12.	12.	.33
+	2 COMBINED AT	1I266	256.	15.42	93.	23.	23.	34.17
+	HYDROGRAPH AT	D251	1948.	16.50	1264.	346.	333.	35.76
+	ROUTED TO	R251	1920.	16.75	1261.	346.	333.	35.76
+	2 COMBINED AT	CP266	1953.	16.75	1339.	369.	355.	36.09
+	DIVERSION TO	DI283	234.	16.75	152.	43.	42.	36.09
+	HYDROGRAPH AT	D266	1719.	16.75	1187.	326.	314.	36.09
+	ROUTED TO	R266	1714.	16.83	1186.	326.	314.	36.09
+	HYDROGRAPH AT	D252	411.	16.83	308.	91.	88.	36.66
+	ROUTED TO	R252	404.	17.33	305.	90.	87.	36.66
+	HYDROGRAPH AT	267	335.	13.17	79.	20.	19.	.50
+	2 COMBINED AT	1I267	485.	13.67	352.	109.	105.	37.16
+	2 COMBINED AT	CP267	2088.	16.83	1530.	434.	418.	37.49
+	DIVERSION TO	DI284	1275.	16.83	971.	284.	274.	37.49
+	HYDROGRAPH AT	D267	813.	16.83	560.	150.	144.	37.49
+	ROUTED TO	R267	805.	17.17	554.	150.	144.	37.49
+	2 COMBINED AT	CP268	3626.	13.67	2191.	684.	659.	47.97
+	ROUTED TO	SR268	3556.	13.83	2163.	666.	642.	47.97
+	ROUTED TO	R268	3279.	14.42	2109.	647.	624.	47.97
+	HYDROGRAPH AT	286	473.	13.08	109.	27.	26.	.70
+	2 COMBINED AT	1I286	3341.	14.42	2120.	673.	648.	48.67
+	HYDROGRAPH AT	288	160.	13.25	44.	11.	10.	.22
+	ROUTED TO	R288	153.	13.42	43.	11.	10.	.22
+	2 COMBINED AT	CP286	3400.	14.42	2132.	683.	658.	48.89
+	ROUTED TO	R286	3332.	14.58	2121.	678.	653.	48.89

+	HYDROGRAPH AT	287	223.	12.67	36.	9.	9.	.23
+	2 COMBINED AT	1I287	3332.	14.58	2121.	686.	661.	49.12
+	HYDROGRAPH AT	D266	234.	16.75	152.	43.	42.	36.09
+	ROUTED TO	R266	229.	17.33	151.	43.	41.	36.09
+	HYDROGRAPH AT	283	102.	13.08	23.	6.	6.	.16
+	2 COMBINED AT	CP283	229.	17.33	154.	48.	46.	36.25
+	ROUTED TO	R283	228.	17.58	154.	48.	46.	36.25
+	HYDROGRAPH AT	285B	83.	12.33	9.	2.	2.	.06
+	2 COMBINED AT	CP285B	228.	17.58	154.	50.	48.	36.32
+	ROUTED TO	SR285B	223.	17.75	153.	50.	48.	36.32
+	DIVERSION TO	DI297	219.	17.75	153.	50.	48.	36.32
+	HYDROGRAPH AT	D285B	5.	17.67	1.	0.	0.	36.32
+	ROUTED TO	R285B	4.	18.25	1.	0.	0.	36.32
+	HYDROGRAPH AT	D267	1275.	16.83	971.	284.	274.	37.49
+	ROUTED TO	R267	1259.	17.50	967.	282.	272.	37.49
+	HYDROGRAPH AT	284	326.	13.17	76.	19.	18.	.52
+	2 COMBINED AT	CP284	1259.	17.50	988.	300.	289.	38.01
+	ROUTED TO	SR284	1252.	17.67	957.	282.	271.	38.01
+	ROUTED TO	R284	1251.	17.75	956.	281.	271.	38.01
+	HYDROGRAPH AT	285A	82.	12.33	9.	2.	2.	.06
+	2 COMBINED AT	1I285A	1251.	17.75	956.	283.	273.	38.07
+	2 COMBINED AT	CP285A	1252.	17.75	957.	283.	273.	38.29
+	ROUTED TO	SR285A	1252.	17.83	957.	283.	273.	38.29
+	DIVERSION TO	1D297A	246.	17.83	238.	95.	91.	38.29
+	HYDROGRAPH AT	D285A	1006.	17.83	719.	189.	182.	38.29
+	ROUTED TO	R285A	1001.	18.00	717.	189.	182.	38.29
+	HYDROGRAPH AT	285	56.	12.33	6.	1.	1.	.04
+	2 COMBINED AT	CP285	1001.	18.00	717.	190.	183.	38.33
+	ROUTED TO	SR285	1000.	18.08	717.	190.	183.	38.33
+	DIVERSION TO	2D297A	273.	18.08	195.	52.	50.	38.33
+	HYDROGRAPH AT	D285	728.	18.08	522.	138.	133.	38.33

+	ROUTED TO	R285	721.	18.33	522.	138.	133.	38.33
+	2 COMBINED AT	CP287	3538.	14.67	2622.	822.	792.	49.96
+	ROUTED TO	SR287	2758.	18.42	2584.	816.	786.	49.96
+	ROUTED TO	R287	2754.	18.75	2571.	805.	775.	49.96
+	HYDROGRAPH AT	298	591.	13.00	122.	30.	29.	.84
+	2 COMBINED AT	CP298	2754.	18.75	2573.	834.	803.	50.80
+	ROUTED TO	SR298	2751.	18.83	2567.	827.	796.	50.80
+	ROUTED TO	R298	2746.	19.17	2553.	813.	783.	50.80
+	HYDROGRAPH AT	316	512.	13.17	122.	31.	29.	.82
+	2 COMBINED AT	CP316	2746.	19.17	2555.	841.	811.	50.82
+	ROUTED TO	R316	2742.	19.33	2541.	832.	802.	50.82
+	HYDROGRAPH AT	334	452.	13.00	95.	24.	23.	.64
+	2 COMBINED AT	1I334	2742.	19.33	2541.	855.	823.	51.46
+	HYDROGRAPH AT	D285	273.	18.08	195.	52.	50.	38.33
+	ROUTED TO	R285	271.	18.33	194.	52.	50.	38.33
+	HYDROGRAPH AT	D285A	246.	17.83	238.	95.	91.	38.29
+	ROUTED TO	R285A	246.	18.25	237.	92.	89.	38.29
+	HYDROGRAPH AT	297A	206.	12.92	39.	10.	9.	.27
+	2 COMBINED AT	1I297A	246.	18.25	237.	102.	98.	38.56
+	2 COMBINED AT	CP297A	517.	18.33	431.	153.	148.	38.60
+	ROUTED TO	R297A	508.	19.92	426.	146.	140.	38.60
+	HYDROGRAPH AT	315	278.	13.25	68.	17.	16.	.47
+	2 COMBINED AT	CP315	508.	19.92	426.	162.	156.	39.07
+	ROUTED TO	R315	505.	20.67	423.	148.	142.	39.07
+	2 COMBINED AT	CP334	3194.	19.50	2888.	1000.	964.	52.20
+	ROUTED TO	R334	3191.	19.75	2882.	987.	951.	52.20
+	HYDROGRAPH AT	335	277.	12.92	54.	13.	13.	.35
+	2 COMBINED AT	CP335	3191.	19.75	2882.	1000.	963.	52.55
+	ROUTED TO	R335	3187.	19.92	2876.	990.	954.	52.55
+	HYDROGRAPH AT	299	289.	13.00	61.	15.	15.	.40
+	ROUTED TO	R299	213.	14.42	61.	15.	15.	.40

+	HYDROGRAPH AT	317	341.	13.25	82.	21.	20.	.57
+	2 COMBINED AT	CP317	341.	13.25	140.	36.	34.	.97
+	ROUTED TO	R317	295.	13.83	136.	36.	34.	.97
+	HYDROGRAPH AT	300	353.	12.83	66.	16.	16.	.39
+	ROUTED TO	R300	264.	14.17	65.	16.	16.	.39
+	HYDROGRAPH AT	318	581.	12.67	97.	27.	26.	.62
+	2 COMBINED AT	CP318	580.	12.67	156.	43.	41.	1.01
+	ROUTED TO	R318	530.	12.92	154.	43.	41.	1.01
+	HYDROGRAPH AT	301	535.	12.17	46.	12.	12.	.30
+	ROUTED TO	R301	175.	14.00	46.	12.	12.	.30
+	HYDROGRAPH AT	319	577.	12.50	84.	23.	23.	.54
+	2 COMBINED AT	CP319	578.	12.50	127.	36.	34.	.84
+	ROUTED TO	R319	520.	12.83	126.	36.	34.	.84
+	HYDROGRAPH AT	337	744.	12.25	84.	25.	24.	.49
+	3 COMBINED AT	CP337	1120.	12.83	357.	103.	99.	2.34
+	ROUTED TO	SR337	373.	13.50	335.	103.	99.	2.34
+	DIVERSION TO	DI367	373.	13.50	335.	103.	99.	2.34
+	HYDROGRAPH AT	D337	0.	.08	0.	0.	0.	2.34
+	ROUTED TO	R337	0.	.08	0.	0.	0.	2.34
+	2 COMBINED AT	1I336	295.	13.83	136.	36.	34.	3.31
+	2 COMBINED AT	2I336	3195.	19.92	2901.	1021.	984.	55.86
+	HYDROGRAPH AT	336	552.	13.92	206.	57.	55.	1.28
+	2 COMBINED AT	CP336	3200.	19.83	2918.	1074.	1035.	57.14
+	ROUTED TO	SR336	3200.	19.92	2915.	1074.	1035.	57.14
+	HYDROGRAPH AT	336A	149.	14.00	54.	14.	13.	.37
+	2 COMBINED AT	CP336A	3200.	19.92	2918.	1087.	1047.	57.51
+	ROUTED TO	R336A	3198.	20.00	2915.	1081.	1041.	57.51
+	HYDROGRAPH AT	364A	99.	12.25	9.	2.	2.	.07
+	2 COMBINED AT	1I364A	3198.	20.00	2915.	1083.	1043.	57.58
+	HYDROGRAPH AT	336B	168.	12.00	9.	2.	2.	.08
+	ROUTED TO	SR336B	101.	12.17	9.	2.	2.	.08

+	ROUTED TO	R336B	82.	12.33	9.	2.	2.	.08
+	2 COMBINED AT	CP364A	3198.	20.00	2915.	1085.	1045.	57.66
+	DIVERSION TO	DI363	1159.	20.00	1055.	389.	375.	57.66
+	HYDROGRAPH AT	D364A	2038.	20.00	1859.	696.	670.	57.66
+	ROUTED TO	R364A	2036.	20.33	1855.	680.	655.	57.66
+	HYDROGRAPH AT	365	272.	12.83	47.	12.	11.	.38
+	ROUTED TO	R365	179.	14.50	45.	12.	11.	.38
+	HYDROGRAPH AT	364	559.	13.00	115.	29.	28.	.78
+	2 COMBINED AT	1I364	558.	13.00	157.	41.	39.	1.16
+	2 COMBINED AT	CP364	2042.	20.33	1863.	717.	691.	58.82
+	ROUTED TO	SR364	2042.	20.33	1863.	710.	684.	58.82
+	DIVERSION TO	DIGILA	344.	20.33	323.	137.	132.	58.82
+	HYDROGRAPH AT	D364	1697.	20.33	1540.	573.	552.	58.82
+	ROUTED TO	R364	1693.	21.25	1533.	552.	532.	58.82
+	HYDROGRAPH AT	D364A	1159.	20.00	1055.	389.	375.	57.66
+	ROUTED TO	R364A	1157.	20.83	1050.	358.	344.	57.66
+	HYDROGRAPH AT	363	360.	13.25	91.	23.	22.	.63
+	2 COMBINED AT	1I363	1157.	20.83	1050.	379.	365.	58.29
+	2 COMBINED AT	2I363	2841.	21.08	2578.	931.	897.	59.45
+	HYDROGRAPH AT	314	293.	13.00	61.	15.	15.	.42
+	ROUTED TO	R314	212.	14.75	60.	15.	15.	.42
+	HYDROGRAPH AT	333	388.	13.08	84.	21.	20.	.58
+	2 COMBINED AT	CP333	388.	13.08	137.	36.	35.	1.00
+	ROUTED TO	R333	361.	13.42	136.	36.	35.	1.00
+	HYDROGRAPH AT	348A	229.	12.58	32.	8.	8.	.22
+	2 COMBINED AT	CP348A	379.	13.42	165.	44.	42.	1.22
+	ROUTED TO	R348A	363.	13.67	164.	44.	42.	1.22
+	HYDROGRAPH AT	348B	355.	13.33	92.	23.	22.	.66
+	2 COMBINED AT	CP348B	667.	13.42	253.	67.	65.	1.88
+	ROUTED TO	SR348B	645.	13.58	253.	67.	65.	1.88
+	ROUTED TO	R348B	617.	14.25	246.	67.	64.	1.88

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        2 COMBINED AT
+                       3I363      2863.   21.08        2627.        992.        956.      61.33
        HYDROGRAPH AT
+                         348       283.   12.75          50.         12.         12.        .34
        ROUTED TO
+                       SR348       280.   12.83          49.         12.         12.        .34
        DIVERSION TO
+                       DI347         0.     .08           0.          0.          0.        .34
        HYDROGRAPH AT
+                        D348       280.   12.83          49.         12.         12.        .34
        ROUTED TO
+                        R348       248.   13.33          48.         12.         12.        .34
        2 COMBINED AT
+                       CP363      2864.   21.08        2629.       1004.        967.      61.67
1                          SUMMARY OF DAM OVERTOPPING/BREACH ANALYSIS FOR STATION    SRWT3

                        (PEAKS SHOWN ARE FOR INTERNAL TIME STEP USED  DURING BREACH FORMATION)


PLAN  1 ...............                  INITIAL VALUE     SPILLWAY CREST     TOP OF DAM
                          ELEVATION        1174.00            1209.00          1212.10
                          STORAGE               0.               3012.            4041.
                          OUTFLOW               0.                  0.           18460.


                RATIO     MAXIMUM      MAXIMUM     MAXIMUM     MAXIMUM    DURATION     TIME OF     TIME OF
                  OF     RESERVOIR      DEPTH      STORAGE     OUTFLOW    OVER TOP   MAX OUTFLOW   FAILURE
                 PMF     W.S.ELEV    OVER DAM      AC-FT        CFS        HOURS        HOURS       HOURS

                1.00     1198.35         .00         755.         0.        .00          .00         .00


PLAN  2 ...............                  INITIAL VALUE     SPILLWAY CREST     TOP OF DAM
                          ELEVATION        1174.00            1209.00          1212.10
                          STORAGE               0.               3012.            4041.
                          OUTFLOW               0.                  0.           18460.


                RATIO     MAXIMUM      MAXIMUM     MAXIMUM     MAXIMUM    DURATION     TIME OF     TIME OF
                  OF     RESERVOIR      DEPTH      STORAGE     OUTFLOW    OVER TOP   MAX OUTFLOW   FAILURE
                 PMF     W.S.ELEV    OVER DAM      AC-FT        CFS        HOURS        HOURS       HOURS

                1.00     1198.25         .00         742.         0.        .00          .00         .00


PLAN  3 ...............                  INITIAL VALUE     SPILLWAY CREST     TOP OF DAM
                          ELEVATION        1174.00            1209.00          1212.10
                          STORAGE               0.               3012.            4041.
                          OUTFLOW               0.                  0.           18460.
```

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
1.00	1197.82	.00	690.	0.	.00	.00	.00

PLAN 4 .....

	INITIAL VALUE	SPILLWAY CREST	TOP OF DAM
ELEVATION	1174.00	1209.00	1212.10
STORAGE	0.	3012.	4041.
OUTFLOW	0.	0.	18460.

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
1.00	1197.64	.00	668.	0.	.00	.00	.00

PLAN 5 .....

	INITIAL VALUE	SPILLWAY CREST	TOP OF DAM
ELEVATION	1174.00	1209.00	1212.10
STORAGE	0.	3012.	4041.
OUTFLOW	0.	0.	18460.

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
1.00	1197.48	.00	648.	0.	.00	.00	.00

*** NORMAL END OF HEC-1 ***

Appendix E Hydraulic Analysis Supporting Documentation

Please refer to Appendix E of TDN of Volume 2.

Appendix F Erosion and Sediment Transport Analysis

Please refer to Appendix F of TDN of Volume 2.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

PLANS FOR THE CONSTRUCTION OF:

BULLARD WASH CHANNEL IMPROVEMENTS PROJECT

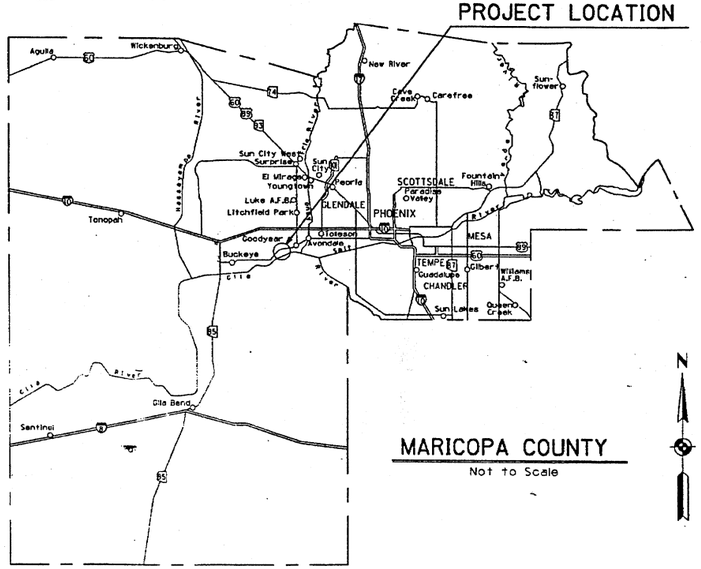
CONTRACT NO. 98-15

PROJECT CONTROL NO. 4700731

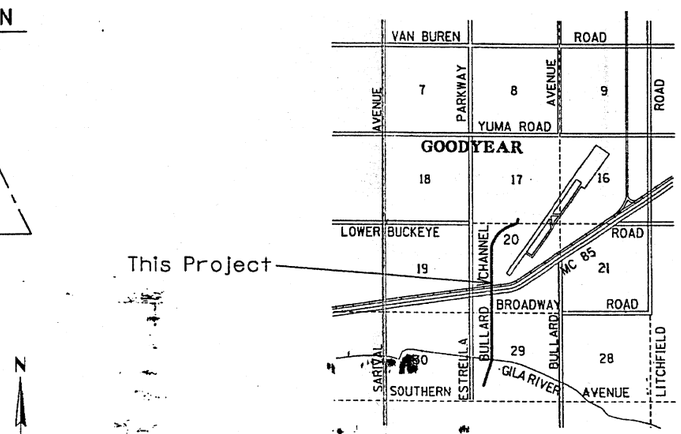
CENTRAL FILES
DRAWING # 19

BULLARD WASH CHANNEL
IMPROVEMENTS PROJECT
CONSTRUCTION PLANS
FCD 98-15
DJR 470

PROJECT LOCATION



MARICOPA COUNTY
Not to Scale



VICINITY MAP
Not to Scale

CITY OF GOODYEAR — DATE

for BUCKEYE IRRIGATION DISTRICT — DATE 7/10/98

CHIEF ENGINEER & GENERAL MANAGER — DATE

IN COOPERATION WITH:
CITY OF GOODYEAR

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

ISSUED FOR PUBLIC BIDDING BY:

COUNTY BOARD OF SUPERVISORS

JAN BREWER - CHAIRMAN

DISTRICT 1 FULTON BROCK
DISTRICT 2 DON STAPLEY
DISTRICT 3 ANDY KUNASEK
DISTRICT 4 JAN BREWER
DISTRICT 5 MARY ROSE WILCOX

ABBREVIATIONS*

AASHTO.....American Association of State Highway and Transportation Officials
AB.....Aggregate Base
Aband.....Abandoned
AC.....Asphaltic Concrete
ACFC.....Asphalt Concrete Friction Course
ACI.....American Concrete Institute
ACP.....Asbestos Cement Pipe
ACSC.....Asphalt Concrete Surface Course
ADOT.....Arizona Department of Transportation
Ahd.....Ahead
AISC.....American Institute of Steel Construction
APS.....Arizona Public Service Company
Asph.....Asphalt
ASTM.....American Society for Testing Materials
AWS.....American Welding Society

B/C.....Back of Curb
BC.....Brass Cap
BCR.....Begin Curb Return
BCT.....Breakaway Cable Terminal
Bdy.....Boundary
Bev.....Beveled(ing)
BID.....Buckeye Irrigation District
Bit.....Bituminous
Bk.....Back
Bkfl.....Backfill
BLM.....Bureau of Land Management
BM.....Bench Mark
Br.....Bridge
BW.....Bottom Width

C&G.....Curb and Gutter
CAP.....Corrugated Aluminum Pipe
CAPA.....Corrugated Aluminum Pipe Arch
CB.....Catch Basin
CBC.....Concrete Box Culvert
CF.....Cubic Feet
CG.....Cattle Guard
CIP.....Cast Iron Pipe
CIPP.....Cast-In-Place Pipe
Clr.....Clearance)
CLD.....Concrete Lined Ditch
CMP.....Corrugated Metal Pipe
CO.....Clean Out
Conc.....Concrete
COG.....City of Goodyear
Cont.....Continuous
Cor.....Corner
Corr.....Correction (VPI to VC)
Cr.....Crown

CSP.....Corrugated Steel Pipe
CSPA.....Corrugated Steel Pipe Arch
CTB.....Concrete Treated Base
CY.....Cubic Yards

D.....Degree of Curve
DA.....Drainage Area
DE.....Drainage Easement
Defl.....Deflection
Det.....Detail
DIP.....Ductile Iron Pipe
Drn.....Drain(age)
D/W.....Driveway
Dwg.....Drawing

E.....Electricity)
e.....External
ECR.....End Curb Return
EFS.....End Full Super
El.....Elevation
Emb.....Embankment
EP.....Edge of Pavement
Esmt.....Easement
Exc.....Excavation
Exist.....Existing)
Exp Jt.....Expansion Joint

F/C.....Face of Curb
FCDMC.....Flood Control District of Maricopa County
FF.....Finished Floor (Elevation)
FH.....Fire Hydrant
Fnd.....Found
Frwy.....Freeway

G.....Gutter (Flowline Elevation)
ga.....Gauge
GB.....Grade Break
GM.....Gas Meter
Gnd.....Ground
GP.....Guy Pole
Gr.....Grade
GR.....Guardrail
GV.....Gas Valve

HDPE.....High Density Polyethyline
Hdwl.....Headwall
HH.....Hand Hole
HW.....High Water

ID.....Inside Diameter
Inv.....Invert
Irr.....Irrigation

L.....Length of Curve
LC.....Long Chord
LF.....Lineal Feet
LS.....Lump Sum
Lt.....Left

MAG.....Maricopa Association of Governments
MGal.....1000 Gallons
Matl.....Material
MCI.....MCI Communications
MCDOT.....Maricopa County Department of Transportation
MH.....Manhole
Min.....Minimum
Mod.....Modify
Mon.....Monument

NC.....Normal Crown
NPI.....Non-pay Item
NPDES.....National Pollutant Discharge Elimination System
NTS.....Not to Scale

OC.....On Center
OD.....Outside Diameter

P.....Pavement (Surface Elevation)
Ped.....Pedestal
PC.....Point of Curvature
PCC.....Point of Compound Curvature
PCC.....Portland Cement Concrete
PI.....Point of Intersection
POC.....Point on Curve
POT.....Point on Tangent
PP.....Power Pole
PRC.....Point of Reverse Curvature
Prel.....Preliminary
Proj.....Project
Prop.....Proposed
PRVC.....Point of Reverse Vertical Curvature
PT.....Point of Tangency
PVC.....Point of Vertical Curvature
PVC.....Poly Vinyl Chloride
PVI.....Point of Vertical Intersection
Pvmt.....Pavement
PVT.....Point of Vertical Tangency

Q.....Quantity of Drainage Runoff
Qtr.....Quarter

R.....Radius
R.....Range
RCP.....Reinforced Concrete Pipe
Rdwy.....Roadway
Rebar.....Reinforcing Bar
Reinf.....Reinforced(ing)
Reloc.....Relocate
Rem.....Remove
Ret.....Retaining)
RGRCP.....Rubber Gasket Reinforced Concrete Pipe
RID.....Roosevelt Irrigation District
RR.....Railroad
Rt.....Right
R/W.....Right of Way

S.....Slope
Sch.....Schedule
SCS.....Soil Conservation Service
SD.....Storm Drain
SE.....Slope Easement
Sec.....Section
SF.....Square Feet
SG.....Subgrade
Shldr.....Shoulder
Shr.....Shrinkage
Sht.....Sheet
Sk.....Skew
SM.....Select Material
Specs.....Specifications (See Note 1)
SRP.....Salt River Project
SS.....Sanitary Sewer
Sta.....Station
Struc.....Structural
Subdiv.....Subdivision
Super.....Superelevation
Sw.....Swell
S/W.....Sidewalk
SWG.....Southwest Gas Corporation
SY.....Square Yards

T.....Tangent Length
T.....Township
TC.....Top of Curb
TCE.....Temporary Construction Easement
TEP.....Tucson Electric Power
Trans.....Transition
Trrk.....Trash Rack
TS.....Traffic Signal Pole
Typ.....Typical
TW.....Top Width

USW.....US West Communications

VC.....Vertical Curve
VCP.....Vitrified Clay Pipe
VG.....Valley Gutter

WAPA.....Western Area Power Administration
w/.....with
w/o.....without
WM.....Water Meter
WV.....Water Valve
WWF.....Welded Wire Fabric

* Standard dictionary abbreviations not included.

SYMBOLS*

Exist Rdwy Conc Items
Exist Edge of Pvmt
Exist R/W Line
Property Line
Railroad Tracks
Top of Cut
Toe of Slope
Trans Cut to Fill
Exist Barb Wire Fence
Exist Chain Link & Gate
Exist Block Wall & Gate
Exist Wood Fence
Exist Guardrail
Exist Water Line — 6"W (TYPE)
Exist Sanitary Sewer Line — 8"SS (TYPE)
Exist Buried Electric Line
Exist Electric Duct Bank — E-9D
Exist Gas Line — 2"G HP (TYPE)
Exist Irrigation Line — 24" (TYPE)
Exist Overhead Elec Line — 24" OHP (TYPE)
Exist Buried Electric Line — E-B
Exist Buried Telephone Line — T
Exist Fiber Optic Tel Line — T-FO
New Pipe
Minor Wash
Exist Conc Lined Ditch

Angle Point
Bench Mark
Feet per Foot
Center Line
Flow Line
Monument Line
Property Line or Plate
Section Line
Exist Manhole
Exist US Mail Box
Exist Util Valve
Exist Util Meter
Exist Gas Regulator
Exist Power or Joint Use Pole
Exist Steel Power Pole
Exist Guy Wire
Exist Street Light
Exist Util Ped
Exist Stand Pipe — SP
Exist Fire Hydrant — FH
Exist Street Sign
Exist Traf Cont Cab
Exist Traf Pull Box
Exist Traf Signal Pole
Exist Slope Direction

New R/W Line
Temp Construction Esmt
Earth to Remove
Regrade/Fill & Compact — or
Graded V-Ditch
Trapezoidal Channel
New Slope Direction
Irrigation Siphon Structure
EPA Monitoring Well (Protect In Place)
Access Gate, Swing
Headwall w/Trash Rack
Exist Sign (1 Post) or Delineator
Exist Sign (2 Posts)
Ground Surface
New Select Material (Section) or Gravel Mulch (Plan)
New ABC (Section)
Riprap
New Bit Pvmt (Plan)
New Conc Pvmt (Plan)
Remove Pvmt (Plan)
New Conc (Section & Plan)
New Grouted Riprap
New Step Gabions

New Power Pole
New Gabion Mattress
New 4-Wire Fence
New Handrail
New Barricade

* Symbols labeled on plans not included.

GENERAL NOTES

1. All work to conform to the MAG Uniform Standard Specifications for Public Works Construction Dated 1998, together with the MCDOT Supplement to the MAG Standard Specifications Dated 1993 and the Special Provisions.
2. Standard Details refer to the MAG Standard Details for Public Works Construction unless noted otherwise.
3. All existing utility lines shown on the plans are from available utility records. The Contractor shall verify the actual location before starting construction. The Contractor shall contact "Blue Stake", 263-1100, prior to beginning construction.
4. Utilities interfering with construction shall be reset or relocated by the utility company concerned unless noted otherwise.
5. Disposal of all waste material, broken concrete, etc. will be the responsibility of the contractor, subject to the approval of the Engineer.
6. All stations and callout distances left and right refer to the new construction centerline unless noted otherwise.
7. The Contractor shall obtain all the necessary permits from local governments for work within their jurisdiction.
8. The Contractor shall verify all bench mark elevations before using them for construction. BM's in utility poles are particularly susceptible to damage.
9. Irrigation ditches, siphons, and pipes are to remain in place and operational until new irrigation facilities are constructed.

DESIGN DATA

Q_{100} (BULLARD WASH) 3200 cfs
Q_{100} (EAST LOCAL TRIBUTARY) 850 cfs

INDEX

1 .....FACE SHEET
2 .....GENERAL NOTE SHEET
3-4 .....SURVEY CONTROL
5.....AIRPORT MONITORING WELL LOCATIONS/FILL AREAS
6 & 6A...SUMMARY OF ESTIMATED QUANTITIES
7-13 ....TYPICAL SECTIONS SHEETS
14-28....CHANNEL PLAN AND PROFILE SHEETS
29-31....LOWER BUCKEYE ROAD & BID SOUTH MAINTENANCE ROAD BYPASS (PLAN & PROFILE)
32-35....DETAIL SHEETS - MAINTENANCE RAMPS (PLAN & PROFILE SHEETS)
36.....PIPE SUMMARY SHEET
37.....CONCRETE BOX CULVERT SUMMARY SHEET
38-44 ...DRAINAGE PIPE PLAN AND PROFILE SHEETS
45-48 ...IRRIGATION SIPHON PLAN AND PROFILE SHEETS
49-64 ...DETAIL SHEETS
65-72...BORING LOG SHEETS (CHANNEL)
73 .....BID CANAL OVERCHUTE GENERAL PLAN
74 .....BID CANAL OVERCHUTE GENERAL NOTES & QUANTITIES SHEET
75-76...BORING LOG SHEETS (OVERCHUTE)
77-80...STRUCTURAL DETAILS
81.....SHEETS TOTAL

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 13955 BRADFORD D. OLBERT 9/8/98 ARIZONA U.S.A.

Sverdrup CORPORATION

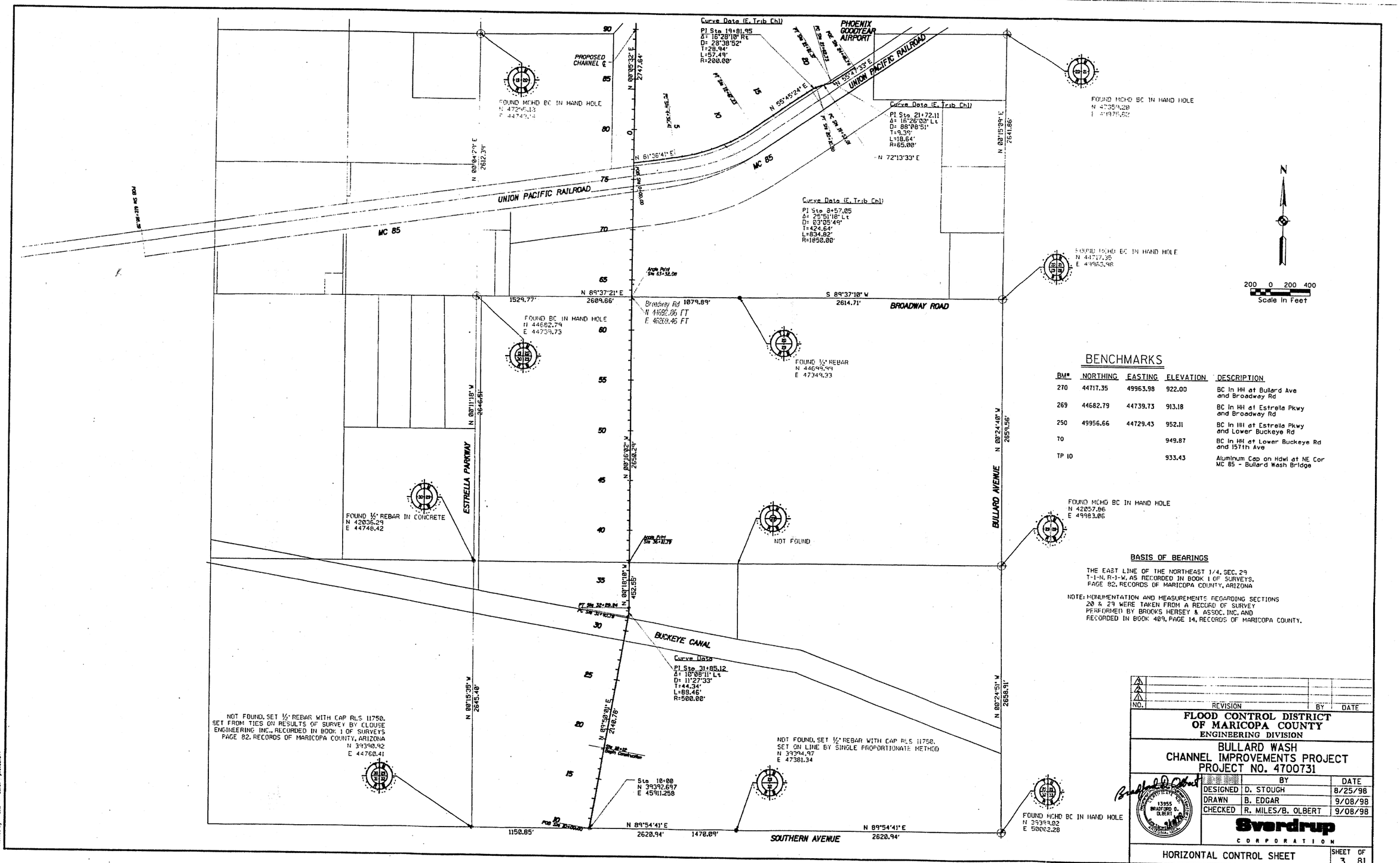
TWO WORKING DAYS BEFORE YOU DIG, CALL 263-1100 BLUE STAKE

GENERAL NOTE SHEET

SHEET 2 OF 81

Filename: MAGspec98
Plotted By: Mugren Date: MAplotdate98

\700c1v11\72wdm\BBBA7* Sun Sep. 13, 1998 11:07:42



BENCHMARKS

BM#	NORTHING	EASTING	ELEVATION	DESCRIPTION
270	44717.35	49963.98	922.00	BC In HH at Bullard Ave and Broadway Rd
269	44682.79	44739.73	913.18	BC In HH at Estrella Pkwy and Broadway Rd
250	49956.66	44729.43	952.11	BC In HH at Estrella Pkwy and Lower Buckeye Rd
70			949.87	BC In HH at Lower Buckeye Rd and 157th Ave
TP 10			933.43	Aluminum Cap on Hdwl at NE Cor MC 85 - Bullard Wash Bridge

BASIS OF BEARINGS

THE EAST LINE OF THE NORTHEAST 1/4, SEC. 29, T-1-N, R-1-W, AS RECORDED IN BOOK 1 OF SURVEYS, PAGE 82, RECORDS OF MARICOPA COUNTY, ARIZONA

NOTE: MONUMENTATION AND MEASUREMENTS REGARDING SECTIONS 20 & 29 WERE TAKEN FROM A RECORD OF SURVEY PERFORMED BY BROOKS HERSEY & ASSOC. INC. AND RECORDED IN BOOK 409, PAGE 14, RECORDS OF MARICOPA COUNTY.

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

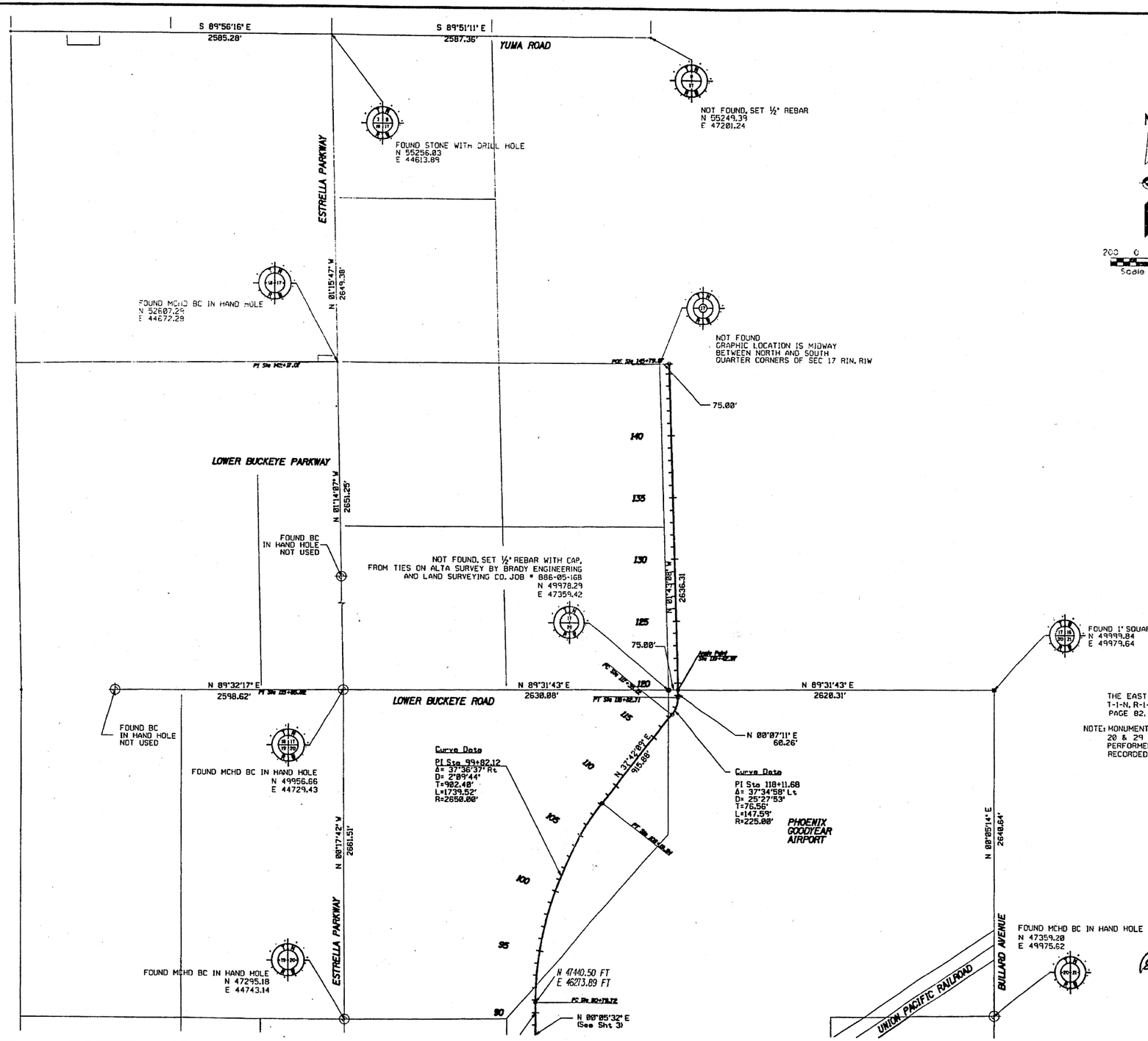
13955 BRADFORD D. OLBERT

Sverdrup
CORPORATION

HORIZONTAL CONTROL SHEET

SHEET 3 OF 81

Filename: M4gspace#
Plotted By: Mucer#8 Date: #mjoldeless



BASIS OF BEARINGS

THE EAST LINE OF THE NORTHEAST 1/4, SEC. 29
T-1-N, R-1-W, AS RECORDED IN BOOK 1 OF SURVEYS,
PAGE 82, RECORDS OF MARICOPA COUNTY, ARIZONA

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NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

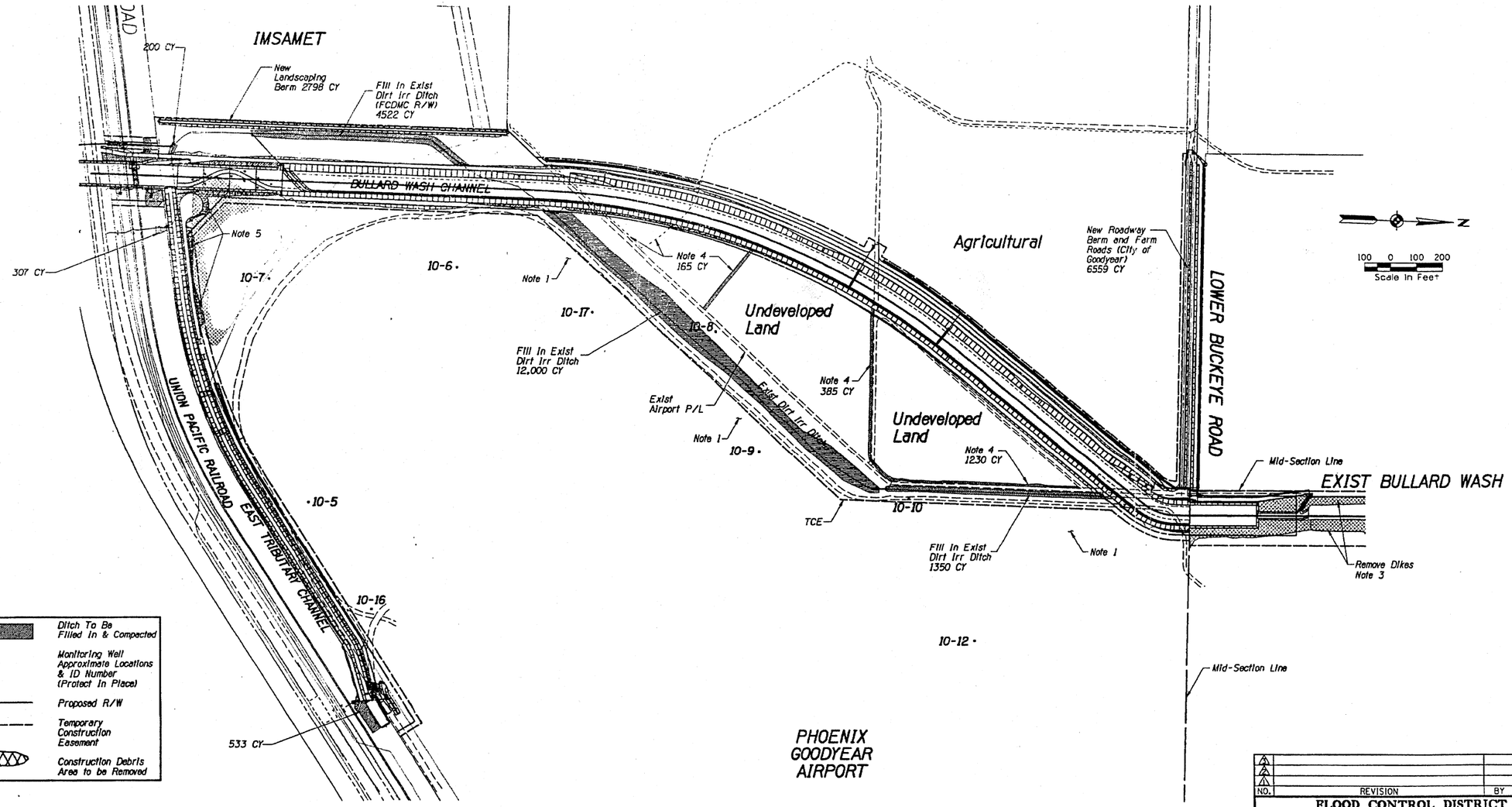
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Sverdrup
CORPORATION

HORIZONTAL CONTROL SHEET

SHEET 4 OF 81

Filename: #skygsp#8
Plotted By: #mugr#8 Date: #mjdotc#4



LEGEND

	Ditch To Be Filled In & Compacted
•10-9	Monitoring Well Approximate Locations & ID Number (Protect In Place)
	Proposed R/W
	Temporary Construction Easement
	Construction Debris Area to be Removed

NOTE:

1) Contractor shall coordinate placement of earthwork on airport property with Shawn Arena, ph. # (602) 932-1200 (Phoenix Goodyear Airport). See Supplementary General Conditions.

2) Contractor shall coordinate placement of earthwork stockpiles on UPRR property with Gary Hauk, ph. # (602) 257-2506. See Supplementary General Conditions.

3) Contractor shall coordinate disposal of excavated material on Sunchase Property with Todd Tupper ph. # (602) 468-1090. See Supplementary General Conditions.

4) Remove CLD and fill ditches. Maintain irrigation flows to adjoining ditches.

5) Remove construction debris and dispose. (See special provisions)

NOTE: ALL FILL QUANTITIES ARE APPROXIMATE

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	8/25/98
CHECKED	R. MILES/B. OLBERT	8/25/98

Bradford D. Olbert
CERTIFICATE NO. 13955 BRADFORD D. OLBERT ARIZONA U.S.A.

Sverdrup
CORPORATION

AIRPORT FILL AREAS AND MONITORING WELL LOCATIONS

SHEET 5 OF 81

Filename: MAPGOOD18
Plotted By: Mauser 48 Date: mp/oldd/ds19

SUMMARY OF ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	SHEET NUMBER 14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	74	TOTAL
201-1	Clear and Grub	Acre	2	2										3			1					8
211-1	Irrigation Ditch Fill Construction	Cu. Yd.			82	77	93	380	2,708	2,015	12,165	2,965	1,027		307		533					22,352
211-2	Channel Embankment Fill Construction	Cu. Yd.		5,183	13,232	10,658	5,921															34,994
211-3	Landscaping Berm Fill Construction	Cu. Yd.							1,636	1,162												2,798
211-4	Lower Buckeye Road Berm Construction	Cu. Yd.																4,449	2,110			6,559
215-1	Earthwork for Drainage Channels	Cu. Yd.	4,783	17,345	16,264	19,143	23,890	28,611	45,115	38,190	44,582	29,684	33,016	3,224	13,652	14,987	2,130					334,616
216-1	Temporary Bypass Ditch	L.S.																				1
216-2	Graded V-Ditch	L.F.		600	935	560						991	475					850	393			4,804
216-3	Dirt Irrigation Ditch (4' Bottom)	L.F.						85	55				90	7			83					320
220-1	Grouted Riprap	Cu. Yd.		496					2,351													2,847
220-2	Dumped Riprap	Cu. Yd.						45									4					49
220-3	Tree Wells	Ea.							10													10
221-1	Gabion Baskets	Cu. Yd.		671	334	334	314	288	107	334	334	334	890				4					3,944
221-2	Gabion Mattress	Cu. Yd.		517	1,667	1,667	1,810	1,460	550	1,794	1,781	1,781	2,320									15,347
301-1	Farm and BID Canal Roads	L.F.		1,070	2,100	2,100	1,652	1,330		330	1,000	1,000	414					1,800	800	480		14,076
310-1	Aggregate Base Course	Ton		920	700	700	1,297	1,288	1,206	460	350	347	554		1,115	1,162	417	333	148			10,997
310-2	Filter Blanket (Type I)	Ton		94					601													695
310-3	Filter Blanket (Type II)	Ton		142					911													1,053
350-1	Remove Concrete Lined Ditch	L.S.																				1
350-2	Remove Irrigation Culverts	L.S.																				1
350-3	Remove Chain Link Fence	L.S.																				1
350-4	Rubble and Debris Removal	Ton							1,500				20	10	1,360		10					2,900*
350-5	Miscellaneous Removals	L.S.																				1
401-1	Traffic Control	L.S.																				1
405-1	Survey Monument	Ea.											1									1
415-1	Barricades	L.F.		110									60		80							250
420-1	Chain Link Fence and Gates	L.F.							524	1,000	1,000	1,000	545		964	900	422					6,355
421-1	Wire Fence	L.F.		520					808	300	1,000	1,000	1,365		954	900	50					6,897
432-1	Gravel Mulch	S.Y.					635		1,210	480	700		192		2,426	2,850	233	1,040	490			10,256
502-1	Drilled Shafts	L.F.																			350	350
505-1	Structural Concrete (Class A)	Cu. Yd.		264			34	18	61				10								84	471
505-2	Structural Concrete (Class AA)	Cu. Yd.																			320	320
505-3	Steel Reinforcement	Lb.		27,953			2,550	1,350	4,575				750								44,244	81,422
505-4	Concrete Channel Lining	S.Y.		3,165				2,052	4,084						5,467	4,432	1,915					21,115
505-5	Broadway Road Ford Crossing	S.Y.					934															934
505-6	Concrete Inlet Channel	S.Y.											615									615
505-7	Spillways	S.Y.		715											196							911
505-8	O&M Path	L.F.		104					425													529
505-9	Low Flow Channel	L.F.							300	1,000	1,000	1,000	543									3,843

* This is an approximate quantity. Contractor will be paid on actual quantity removed.

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	9/08/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES	9/08/98

Sverdrup CORPORATION

SUMMARY OF ESTIMATED QUANTITIES

SHEET 6 OF 81

Filename: M4700731
Plotted By: BEDGAR Date: 9/10/1998

SUMMARY OF ESTIMATED QUANTITIES

ITEM NUMBER	ITEM DESCRIPTION	UNIT	SHEET NUMBER 14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	74	TOTAL
505-10	Inlet and Outlet Structures, MAG Det. 501-4	Ea.		1				2	2													5
505-11	Inlet and Outlet Structures, MAG Det. 502-1	Ea.									1	1	2									4
505-12	Inlet and Outlet Structures, MAG Det. 501-1	Ea.			2	1																3
505-13	Inlet and Outlet Structures,	Ea.							1		1	1										3
	Special Detail 25																					
505-14	Outlet Structure, Special Section 10c	Ea.		1																		1
505-15	Inlet and Outlet Structures, MAG Det. 501-5	Ea.		1		1			1								1					4
505-16	Outlet Structure, Special Detail 22	Ea.															1					1
505-17	Inlet Structure Detail 13	L.S.															1					1
505-18	Catch Basin, MAG Det. 535, Type F	Ea.							2													2
505-19	Concrete Staining	S.F.		43,700				33,064	39,750						14,230							130,744
506-1	Precast Slabs	Ea.																			16	16
515-1	Access Gates	Ea.		4			3	3	1				2									13
515-2	Safety Posts	Ea.					26										7					33
515-3	Removable Safety Posts	Ea.					2										2					4
515-4	Delineators	Ea.		9																47		56
520-1	Handrail (42")	L.F.		963	2,000	2,000	2,422	1,935	617	606	300	300	476									11,619
520-2	Handrail (10")	L.F.		104																		104
525-1	Shotcrete Lining Spillway	S.Y.		65																		65
602-1	Jack and Bore Pipe	L.F.							75													75
615-1	Sanitary Sewer Line Installation	L.F.					440															440
618-1	24" DIP	L.F.		112																		112
618-2	30" DIP	L.F.			271	272	284	174														1,001
618-3	12" RGRCP	L.F.									105	73	90									268
618-4	24" RGRCP	L.F.		135	65	67			266				62									595
618-5	30" RGRCP	L.F.							209								122					331
618-6	36" RGRCP	L.F.		24				266														290
618-7	60" RGRCP	L.F.															232					232
625-1	Adjust Sanitary Sewer Manhole	Ea.					2															2
625-2	Irrigation Siphon Manhole (Detail 12)	Ea.			2	2	2	2														8
632-1	PVC Pipe Sleeve	L.F.							695													695
632-2	Steel Pipe Sleeve	L.F.			220	220																440
635-1	Concrete Lined Ditch	L.F.			62	66	232			300	290											950
635-2	Shallow Concrete Lined Ditch	L.F.									71	71										142

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	9/08/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES	9/08/98

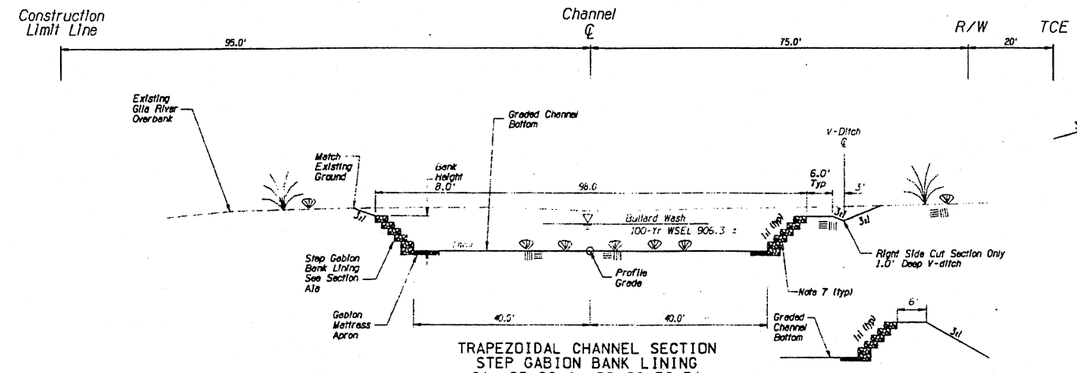
Bradford D. Olbert
CERTIFICATE NO. 13955
BRADFORD D. OLBERT
ARIZONA, U.S.A.

Sverdrup
CORPORATION

SUMMARY OF ESTIMATED QUANTITIES

SHEET 6a OF 81

Filename: Mqsqscr4
Plotted By: mqsqsrm Date: Mq10/23/98

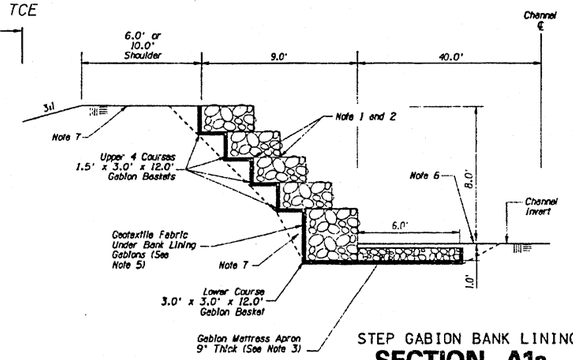


TRAPEZOIDAL CHANNEL SECTION
STEP GABION BANK LINING
Sta 25+00 to 28+60.56 Rt
Sta 25+00 to 26+55.80 Lt

RIGHT SIDE FILL CONDITION
Sta 28+20 ± to 28+60 ±

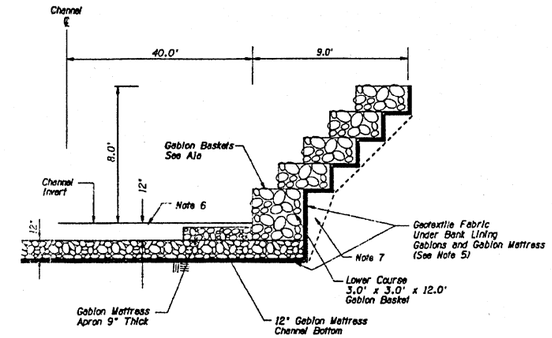
SECTION A1

N.T.S.



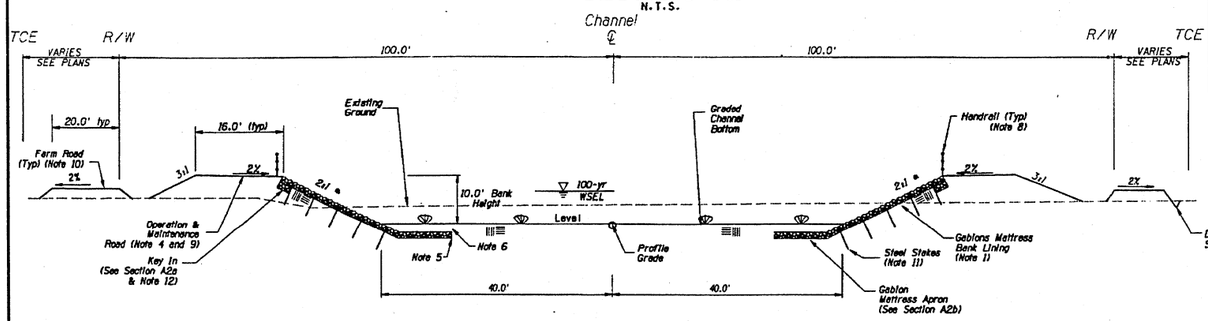
STEP GABION BANK LINING

SECTION A1a



Sta 28+35.56 to 28+60.56 Rt.
GABION MATTRESS CHANNEL BOTTOM

SECTION A1b

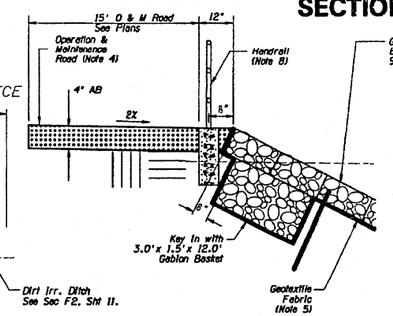


* Transition bank slope from 1.5:1 (Sta 33+28± Rt) to 2:1 (Sta 33+80 Rt), and 1.5:1 (Sta 33+35± Lt) to 2:1 (Sta 33+80 Lt)

TRAPEZOIDAL CHANNEL SECTION
GABION MATTRESS BANK LINING
Sta 33+30±to 58+50

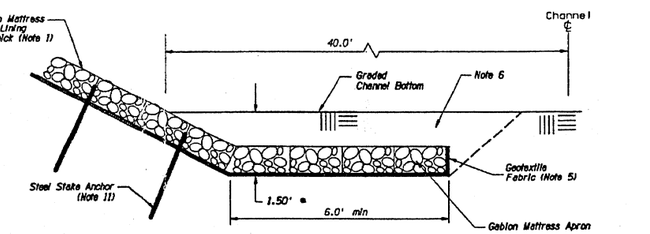
SECTION A2

N.T.S.



FOR SECTIONS A2 & A3

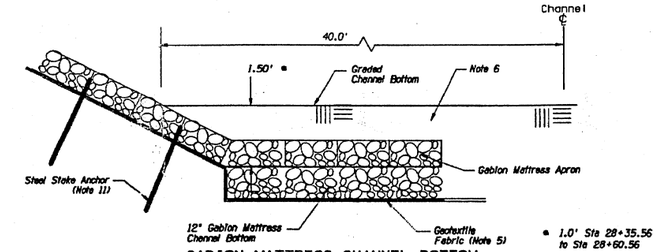
SECTION A2a



FOR SECTIONS A2, A3, C1 & C2

SECTION A2b

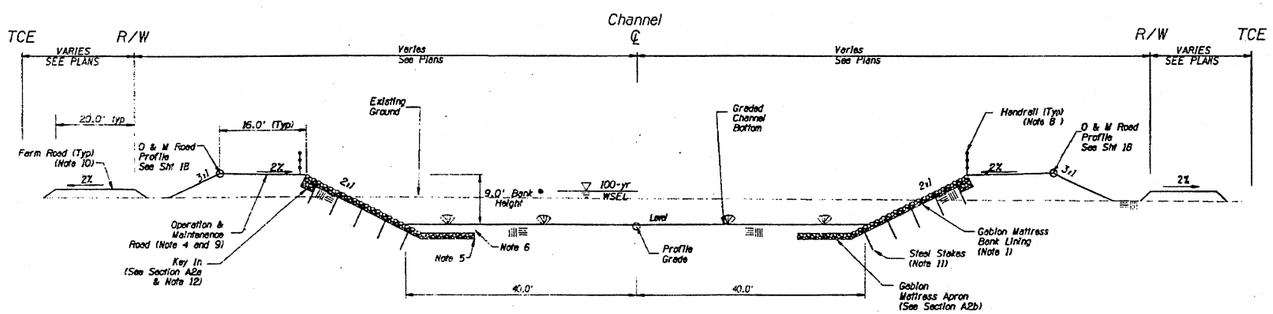
* 1.0' Sta 26+55.80 to Sta 28+60.56



* 1.0' Sta 28+35.56 to Sta 28+60.56

GABION MATTRESS CHANNEL BOTTOM
Sta 28+35 to 28+60± Lt
Sta 62+71 to 63+01
Sta 72+17 to 72+47

SECTION A2c



* Bank Height Transitions from 10.0' to 9.0' Sta 58+50 to 59+00 See Sht 18

TRAPEZOIDAL CHANNEL SECTION
GABION MATTRESS BANK LINING
Sta 58+50 to 72+47

SECTION A3

N.T.S.

NOTES:

1) Connect edges of gabions to adjacent baskets/mattress.

2) Gabion baskets stacked with 50-percent overlap, filled with rounded river rock D50=6.0 inches.

3) Both edges of gabion mattress apron attached to bottom course gabion basket (Section A1a & A1b only). Apron filled with rounded river rock D50=4.5 inches, over geotextile fabric.

4) Install 4" thick AB to All operation and maintenance roads. Compact AB to 95%

5) Geotextile fabric to be installed under all gabion baskets, gabion mattress bank lining and aprons. See special provisions for burst strength, permeability, and pore opening size.

6) Overexcavate to base of apron or gabion basket. Backfill over gabion mattress apron to channel invert, compact to 85%

7) Backfill behind each course of gabion baskets and compact to 95%. Compact channel bank fill to 95%.

8) Install handrail 8" behind slope mattress gabions unless shown otherwise on plans. (See Detail 9 Sheet 57)

9) Compact ground to 95% behind slope mattress gabions. Compact berm and O&M road to 95%.

10) Construct 20' wide farm road with inside edge at R/W unless shown otherwise on plans See Detail H3, Sheet 12. Compact to 85 %

11) Steel stake anchors are 1" nominal diameter 4-foot long, galvanized steel pipe. (See Detail 5g, Sheet 53)

12) Install counterfort at junction of slope mattress gabion bank lining with concrete bank lining. (See Details 5b and 5c, Sheet 53)

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

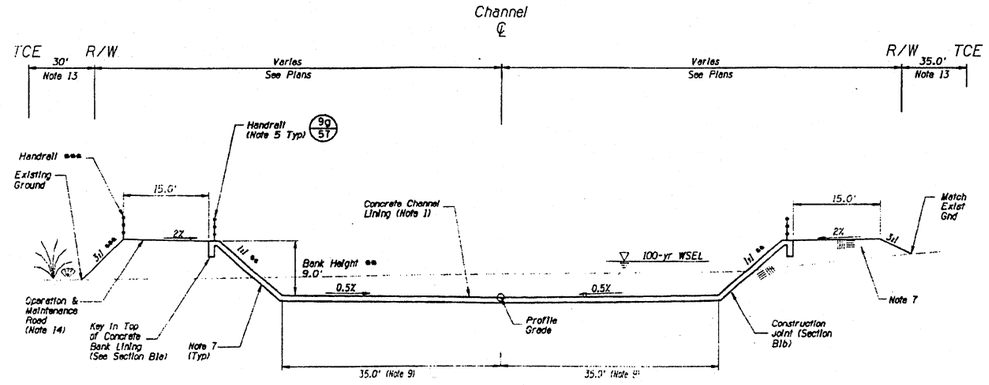
Bradford D. Olbert
13955 BRADFORD D. OLBERT
ARIZONA, USA
7/01/98

Sverdrup
CORPORATION

CHANNEL TYPICAL SECTIONS
A1, A2, A3 (GABION BANK LINING)

SHEET 7 OF 81

Filename: 4700gsec.dgn
Plotted By: mdgarr Date: 09/01/1998



* See Section R2, Sheet 13 for Maintenance ramps 2 & 3

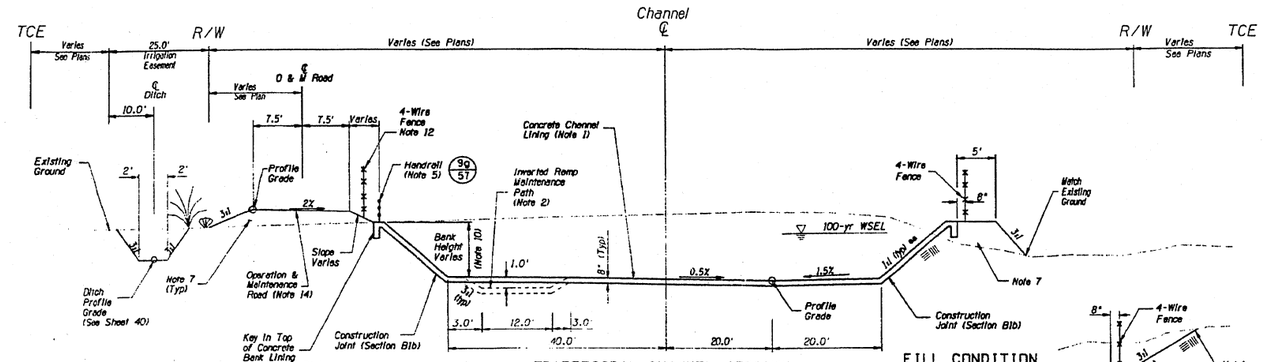
** Sideslope vary 1:1 to 1 1/2:1 and bank height varies 9.0' to 10' Sta 32+65 to 33+34 Lt and Sta 32+65 to 33+28 Rt

*** Backslope varies 3:1 to 2:1 Sta 33+00 to 33+34 Lt and 2:1 to 3:1 Sta 33+34 to 33+80 Lt See Plans for location, set Handrail at Lt Edge of O & M road

TRAPEZOIDAL CHANNEL SECTION
CONCRETE CHANNEL LINING
Sta 30+68.94 to 33+30± *

SECTION B1

N.T.S.



* See Section R2, Sheet 13 for Maintenance Ramp 6

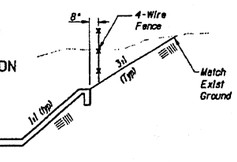
** Side Slope varies 2:1 to 1:1 (Both Banks) Sta 72+47 to Sta 72+76.65 and 1:1 to 1.5:1 (East Bank Only) Sta 76+78.89 to 76+93.43

TRAPEZOIDAL CHANNEL SECTION
CONCRETE CHANNEL LINING
Sta 72+47 to 77+00 *

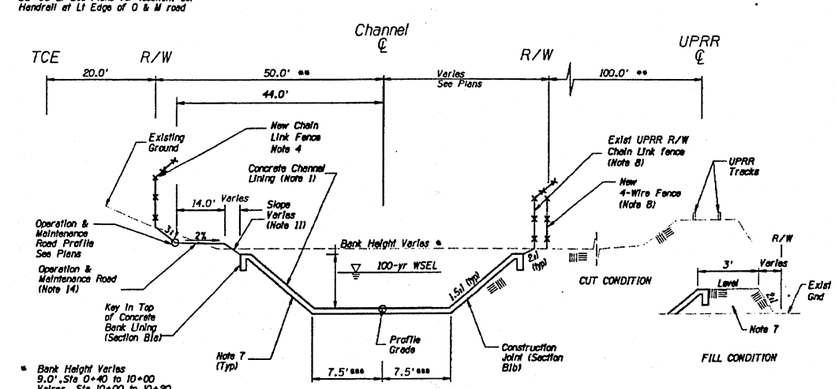
SECTION B2

N.T.S.

FILL CONDITION



CUT CONDITION



* Bank Height Varies 9.0', Sta 0+43 to 10+00 Varies, Sta 10+00 to 10+20 7.0', Sta 10+20 to 21+62.73 varies, Sta 21+63.73 to 21+90.22

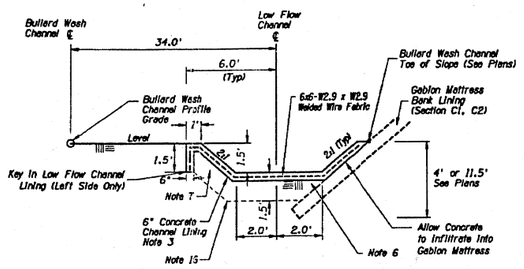
** Distances Vary Sta 19+53 to 23+00 See Plans

*** Distances and Cross-Slope Varies Sta 21+62.73 to 21+90± See Plans

TRAPEZOIDAL CHANNEL SECTION
CONCRETE CHANNEL LINING
East Tributary Channel
Sta 0+43 ± to 21+90

SECTION B3

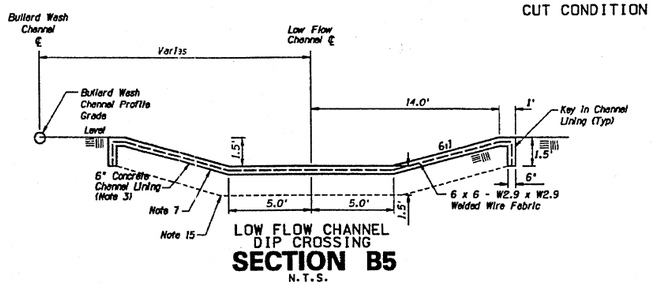
N.T.S.



CONCRETE LOW FLOW CHANNEL

SECTION B4

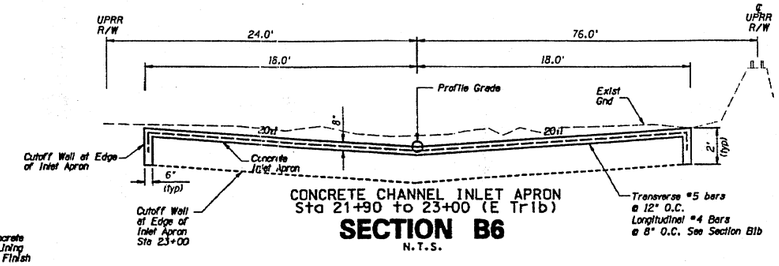
N.T.S.



LOW FLOW CHANNEL
DIP CROSSING

SECTION B5

N.T.S.



CONCRETE CHANNEL INLET APRON
Sta 21+90 to 23+00 (E Trib)

SECTION B6

N.T.S.

NOTES

1) Channel bottom shall be roughened with raked finish, and sideslopes with heavy broom finish.

2) Maintenance path is lowered beneath channel bottom only under new UPRR bridge, Station Limits are 75+09 to 75+59, 31.00' Lt See Section J2, Sht 13 and Sht 20 for location.

3) Channel bottom and sideslopes shall have heavy broom finish.

4) Chain link fence (MAG Std 160) is to be installed along airport R/W. See Plans for Location.

5) Install handrail on top of channel bank lining. See Detail 9g, Sht57, Sht55, & Plans for Location.

6) Backfill over gabions and compact to 85%. Compact base under low flow channel to 95%.

7) Compact subgrade under concrete lining, bank fill, and O & M road to 95%. Compact AB to 95%.

8) Remove chain link fence and replace with 4-wire fence @ R/W Line Sta 0+40 to 19+53. See special provisions. Remove chain link fence Sta 19+53 to 23+50.

9) Half Width Varies 35' to 40' Sta 32+66.30 to 33+30±. See detail 1 sht 49 for channel bottom alterations and transition.

10) Bank Height reduces to 7.5' under MC 85 bridge and to 6.0' under UPRR bridge. See Typ Sec J1 and J2 Sht 13.

11) Cover Sideslope with gravel mulch on sideslope 2:1 or steeper.

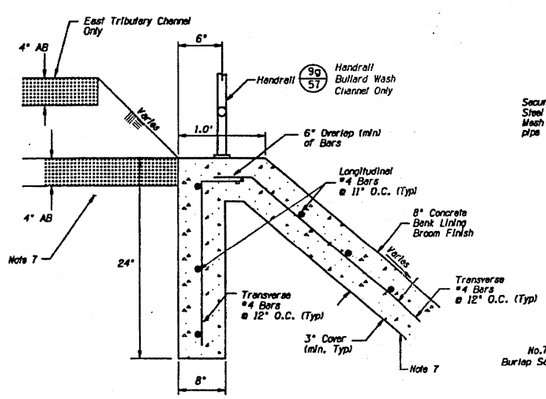
12) 4-Wire fence installed on top of channel bank. See sht 55 and plans for locations.

13) See plans for location of farm roads and irrigation dirt ditch within TCE. See Section H3, Sht 12.

14) Install 4" thick AB to all operation & maintenance roads. Compact AB to 95%.

15) Construct cutoff wall at Sta 81+50 6" thick x 18" deep across entire dip crossing.

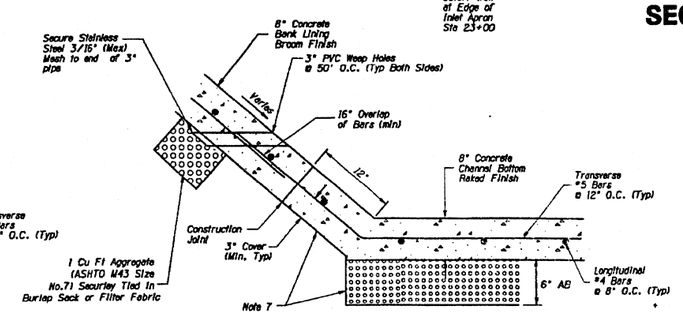
16) Construct cutoff wall at 500 foot intervals starting at Sta 83+00, 6" thick x 18" deep.



TYPICAL KEY-IN

SECTION B1a

N.T.S.



CONSTRUCTION JOINT

SECTION B1b

N.T.S.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

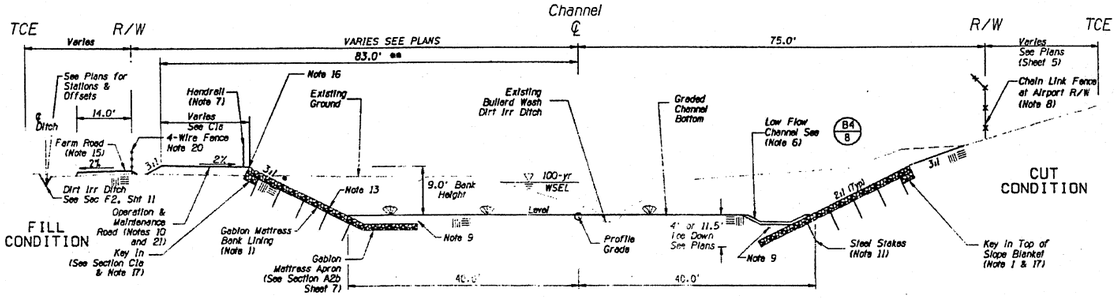
REGISTERED PROFESSIONAL ENGINEER (CIVIL) 13955 BRADFORD D. OLBERT ARIZONA U.S.A.

Sverdrup
CORPORATION

CHANNEL TYPICAL SECTIONS
B1, B2, B3, B4, B5, and B6

SHEET 8 OF 81

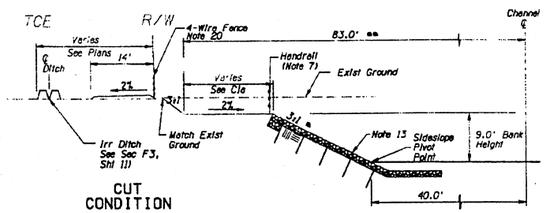
Filename: ekgrapcs
Plotted By: ekgrapcs Date: ekplotdate



GABION MATTRESS BANK LINING
Sta 81+01 to 117+35

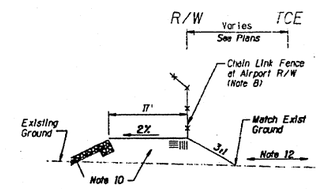
SECTION C1

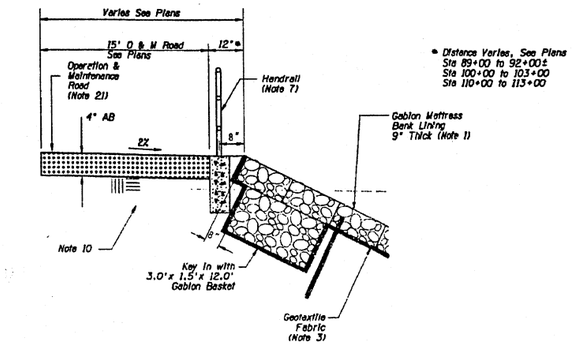
N.T.S.



- Sideslopes Vary Sta 89+00 to 93+71.91
  Sta 100+00 to 103+00
  Sta 110+00 to 113+00
  Sta 115+50 to 117+35

** Dimension Varies
Sta 90+79.92 to 93+71.91 & Sta 115+00 to 117+35 See Plans for offsets

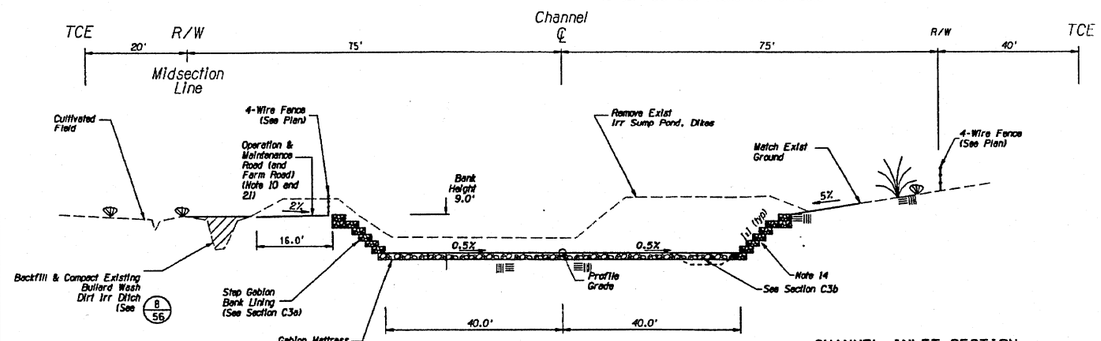




- Distance Varies, See Plans
  Sta 89+00 to 92+00±
  Sta 100+00 to 103+00
  Sta 110+00 to 113+00

FOR SECTION C1 & C2

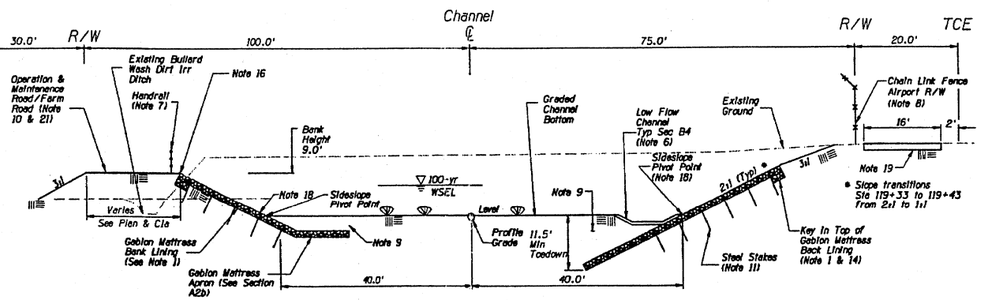
SECTION C1a



CHANNEL INLET SECTION
STEP GABION BANK LINING
Sta 119+43 to 121+95

SECTION C3

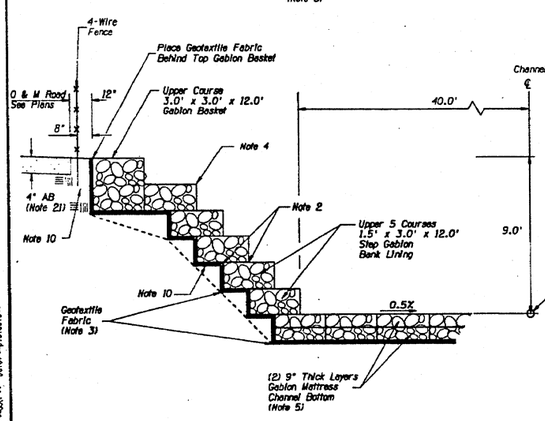
N.T.S.



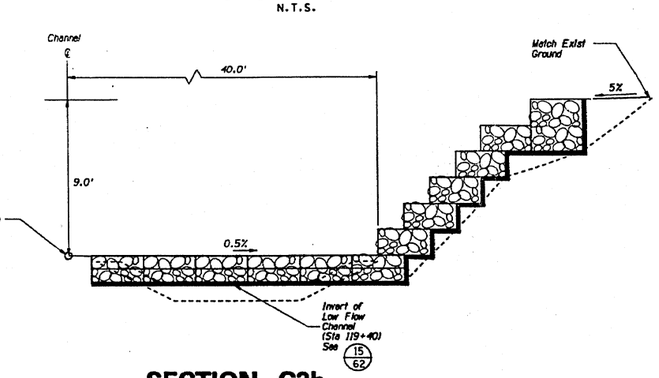
Sta 117+35 to 119+43 (Typical)

SECTION C2

N.T.S.



SECTION C3a



SECTION C3b

NOTES

1) Riprap Filled, Gabion Mattress Bank Lining with, 9" x 6" x 12' basket size. Key in top of slope mattress gabions with 3.0' x 1.5' x 12' gabion baskets; filled w/rounded river rock See Specifications.

2) All edges of gabions are connected to adjacent gabion baskets.

3) Geotextile fabric to be installed under all slope mattress gabions and aprons. Fabric shall be installed behind and under step gabion baskets See special provisions for burst strength, permeability and burst strength.

4) Banks lined with riprap filled gabion baskets, stacked with 50-percent overlap, 18" x 36" x 12' basket size (except upper course), on geotextile fabric. (See Sec C3a)

5) Channel bottom lined with 2 layers of 9" x 6" x 12' gabion mattress; filled w/rounded river rock D =4.5 inches

6) Low flow channel lined with, 6-inch " thick concrete. See Sec B4, Sht 8.

7) Handrail will be installed 8" behind channel lining left bank only. See Detail 9 sht 57 and Detail 7c sht 55 for locations.

8) Chain link fence (MAG Std 160) is to be installed along airport R/W only. Barbed wire top angled away from airport. See Detail 7c sht 55 for locations.

9) Overexcavate to base of apron, gabion mattress or gabion basket. Backfill over apron to channel invert, compact to 85%. Compact base under low flow channel to 95%

10) Backfill behind each course of gabion baskets, compact to 95%. Compact O & M road subgrade to 95%. Compact Embankments to 95%

11) Steel stakes are 1-inch outer diameter, 4-foot long, galvanized steel pipe. See Detail 5g.

12) Stockpile locations on Airport property to be arranged by Contractor. Contact Shawn Arene, with Phoenix Goodyear Airport.

13) Section C1 includes transitions which vary from 2:1 to 3:1 sideslopes, see plan for locations.

14) Install counterfort Sta 119+43 (L) & Rt) See Detail 5e, sht 53.

15) Construct Farm Road Sta 91+10 to 117+40 only.

16) Area between O & M Road and gabions varies in width (see section C1 & C2).

17) Install counterforts at Sta 81+01 Lt & Rt, See Detail 5c, Sht 53.

18) Section C2 includes sideslope transitions which vary from 2:1 to 1:1 Sta 119+33 to 119+43 (See Plans).

19) Construct new 4" AB, 16' wide airport perimeter road Sta 116+68 to 119+16± Compact AB and subgrade to 95%.

20) Install 4-wire fence, sta 90+95± to 119+33.

21) Install 4" thick AB over all operation & maintenance roads. Compact AB to 95%

NO.	REVISION	BY	DATE
1			
2			
3			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

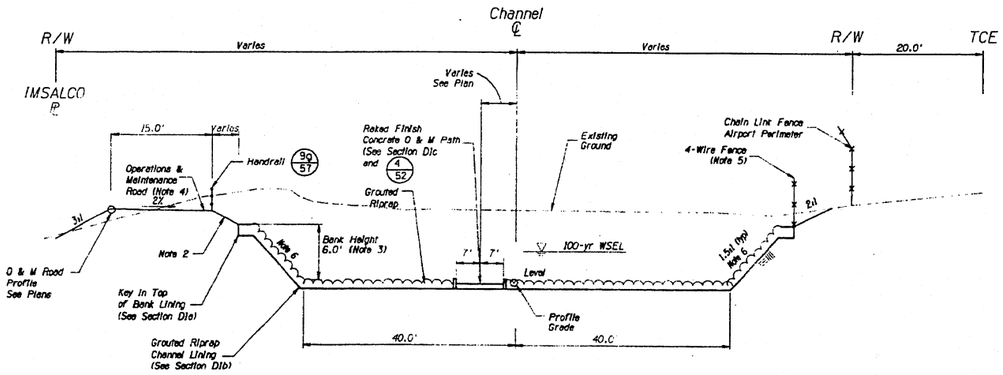
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Sverdrup CORPORATION

CHANNEL TYPICAL SECTIONS C1, C2 and C3

SHEET 9 OF 81

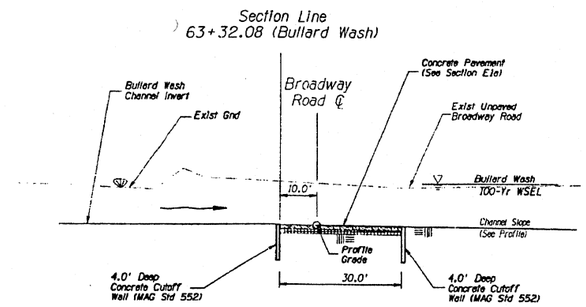
Filename: M4700C08
Plotted By: Mazar 49 Date: 09/08/1998



TRAPEZOIDAL CHANNEL SECTION
GROUTED RIPRAP LINING
Sta 77+00 to 81+00

SECTION D1

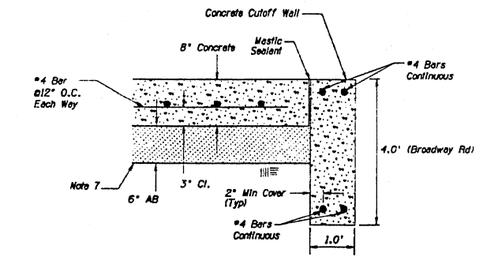
N.T.S.



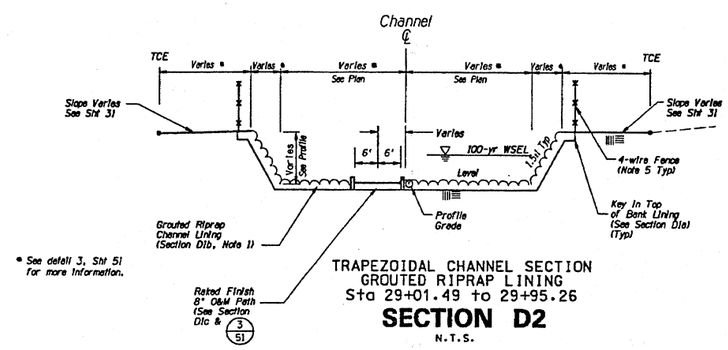
CONCRETE FORD CROSSING
Sta 41+65 to 43+25 Broadway Road

SECTION E1

N.T.S.



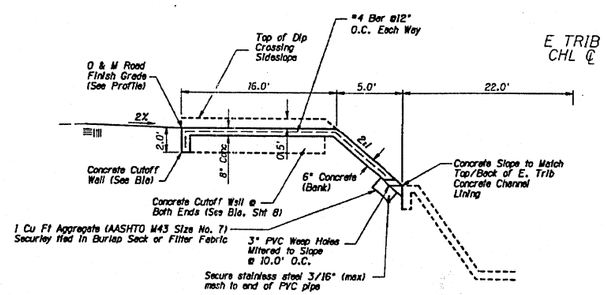
SECTION E1a



TRAPEZOIDAL CHANNEL SECTION
GROUTED RIPRAP LINING
Sta 29+01.49 to 29+95.26

SECTION D2

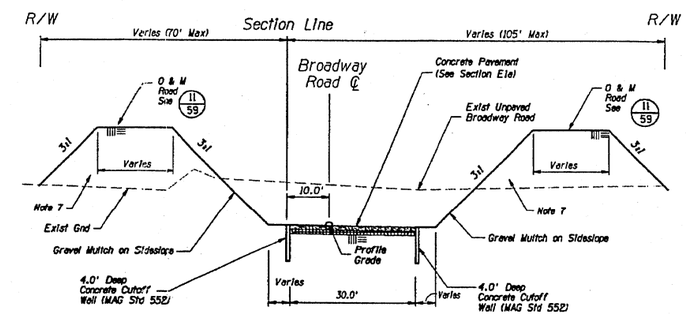
N.T.S.



EAST TRIBUTARY CHANNEL
CONCRETE O & M ROAD DIP CROSSING
Sta 6+40 to 7+20 (East Tributary)

SEC TION E4

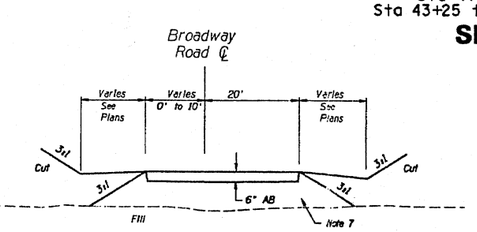
N.T.S.



CONCRETE FORD CROSSING w/SIDESLOPES
Sta 41+01 to 41+65± and
Sta 43+25 to 43+81 Broadway Road

SECTION E2

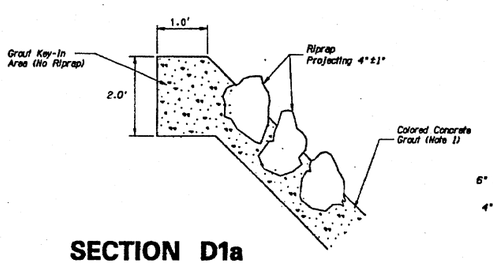
N.T.S.



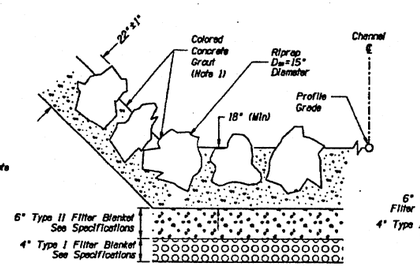
Sta 39+10 to 41+01
Sta 43+81 to 45+54

SECTION E3

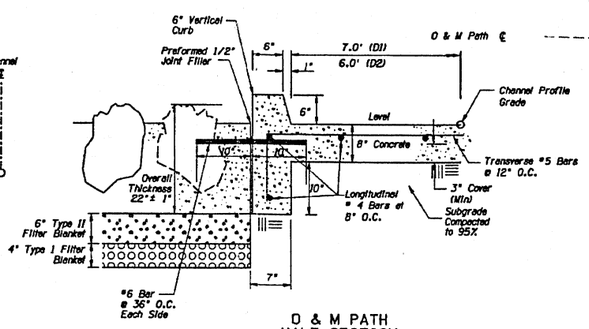
N.T.S.



SECTION D1a



SECTION D1b



O & M PATH
HALF SECTION

SECTION D1c

NOTES

1) Colored grout. See special provisions.
2) Gravel Mulch on Sideslopes 2:1 or Steeper
3) Bank Height Varies 9' to 6' Sta 77+00 to 77+70± and 6' to 9' Sta 80+80 to 81+00
4) See stations and offsets on sheet 20 for location of O & M path.
5) Install 4-wire fence 8" behind key-in of grouted riprap lining, unless shown otherwise on plans
6) Sideslope transitions (Left side)
from 1.27:1 to 1.68:1, Sta 77+00 to Sta 77+48.31 Lt
and from 1.68:1 to 1.5:1, Sta 77+48.31 to Sta 77+71.64 Lt.
Sideslope transition (Right Side)
from 1.5:1 to 2:1 Sta 80+80 to 81+00 Rt.
Sideslope transition (Left Side)
1.5:1 to 3:1, Sta 80+80 to 81+00 Lt.
7) Compact embankments, O & M roads, and Broadway Road to 95%

NO.	REVISION	BY	DATE
4			
3			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

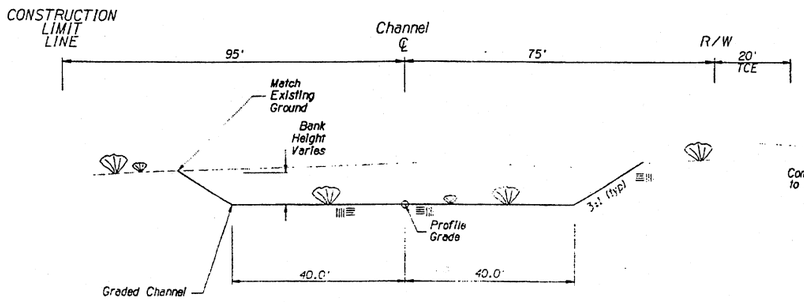
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Sverdrup CORPORATION

CHANNEL TYPICAL SECTIONS
D1, D2, E1, E2 and E3

SHEET 10 OF 81

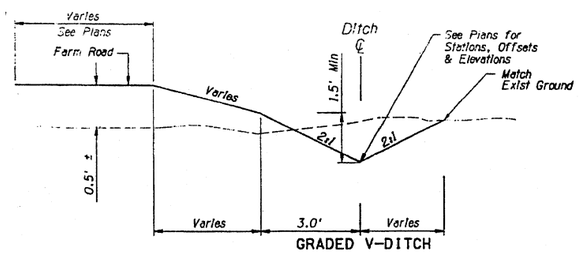
Filename: BWXgrpsec#
Plotted By: BWaser## Date: ##yldcleee



GRADED CHANNEL SECTION
(UNLINED CHANNEL)
Sta 18+12± to 24+00

SECTION F1

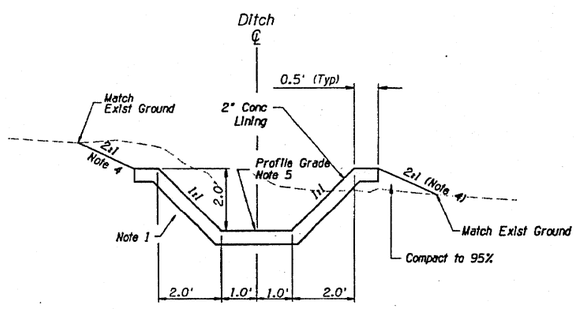
N.T.S.



GRADED V-DITCH

SECTION F2

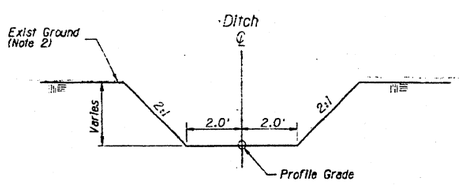
N.T.S.



CONCRETE LINED DITCH

SECTION F3

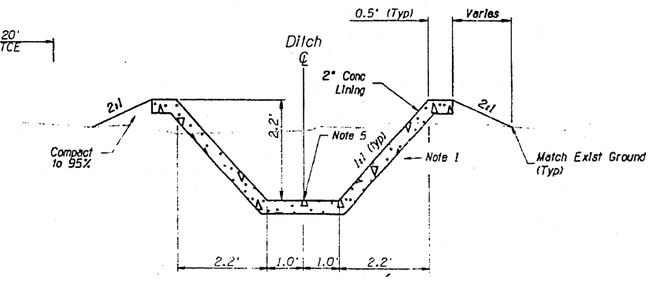
N.T.S.



DIRT IRR DITCH
Sta 123+55± Lt to 124+15 Lt
Sta 70+80± LT to 71+57.50 Lt
Sta 74+23.24 to 74+78.23 Lt

SECTION F4

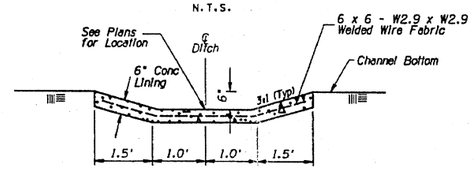
N.T.S.



DEEP CONCRETE LINED DITCH

SECTION F5

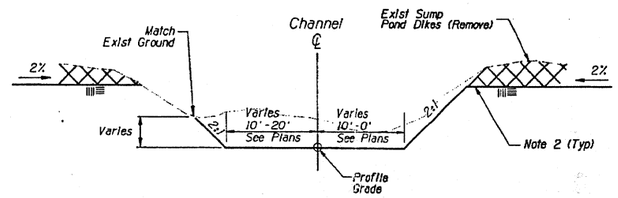
N.T.S.



SHALLOW CONCRETE LINED DITCH
Sta 103+51 and 107+50

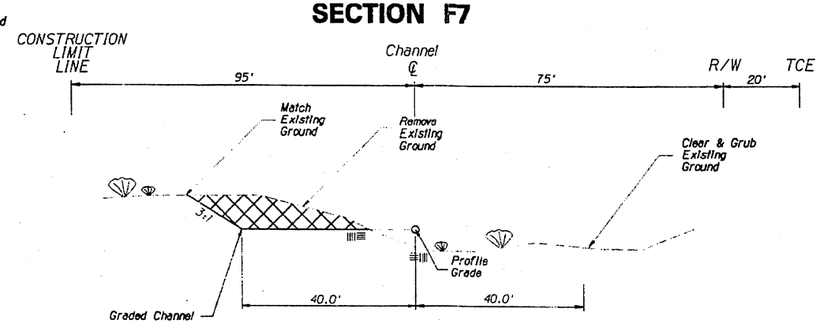
SECTION F6

N.T.S.



DIRT INLET CHANNEL
Sta 123+45 to 123+90±

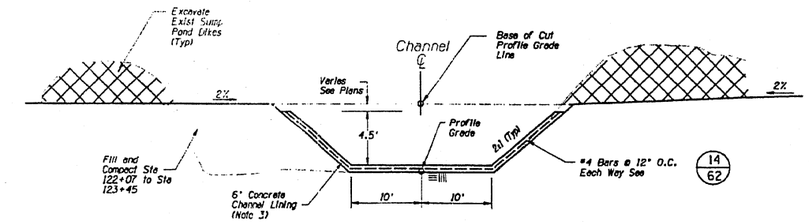
SECTION F7



GRADED CHANNEL SECTION
(UNLINED CHANNEL)
Sta 24+00 to 25+00

SECTION F8

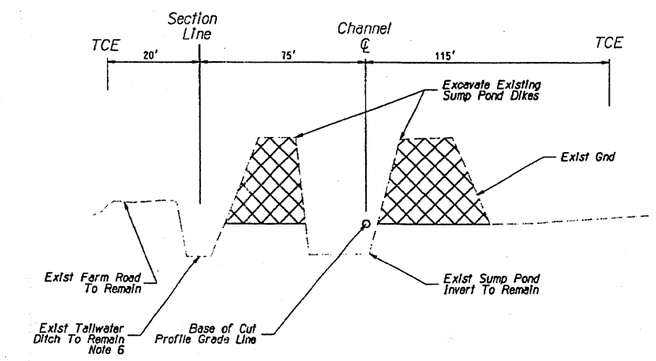
N.T.S.



CONCRETE INLET CHANNEL
Sta 122+07 to 123+45

SECTION G1

N.T.S.



DIKE REMOVAL
BULLARD WASH
Sta 123+90± to 132+61.25

SECTION G2

N.T.S.

Notes

1) Compact soil under O & M road or concrete channel/ditch lining to 95%.

2) Section F4 and F7 Top of slope is existing ground or base of cut profile grade line elevation (See Typ Sec G2).

3) Channel bottom shall have broom finish Portland cement concrete cast in place 6" thick.

4) Sideslope varies (2:1 max) when adjacent farm road.

5) For ditch grades see plans for stations offsets, and elevations

6) Maintain ditch in operation condition. Keep soil from falling into ditch.

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

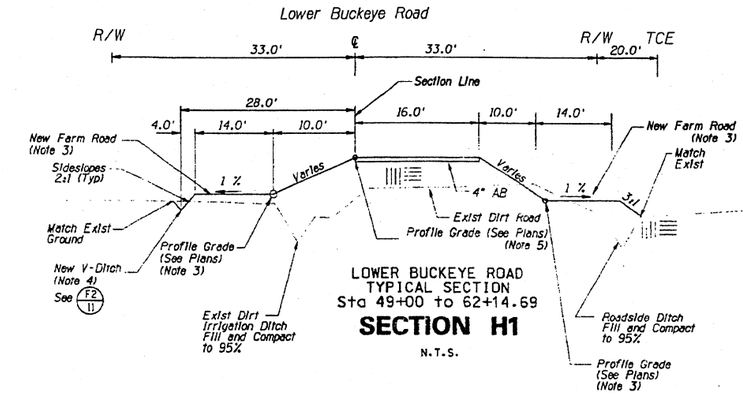
13955 BRADFORD D. OLBERT

Sverdrup
CORPORATION

CHANNEL TYPICAL SECTIONS
F1, F2, F3, F4, F5, F6, F7, F8, G1, and G2

SHEET 11 OF 81

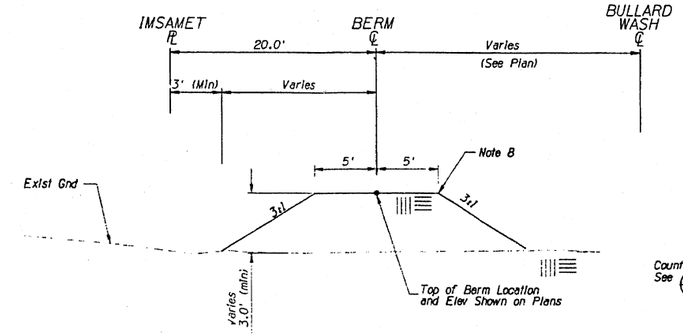
Filename: h4700e18
Plotted By: hasserp Date: 10/01/1998



LOWER BUCKEYE ROAD
TYPICAL SECTION
Sta 49+00 to 62+14.69

SECTION H1

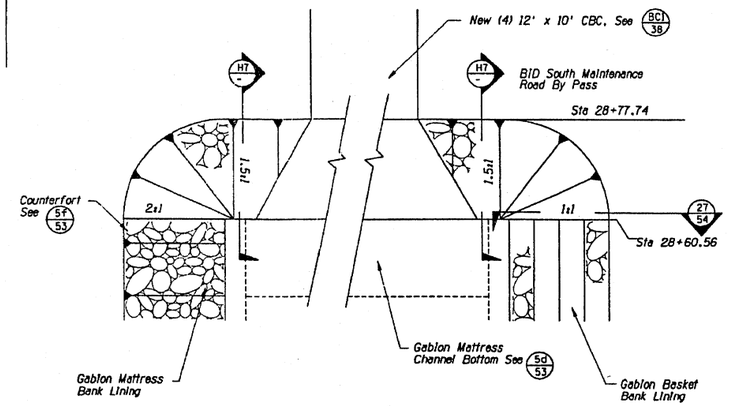
N.T.S.



LANDSCAPING BERM
Sta 76+25 to 89+50 Lt

SECTION H4

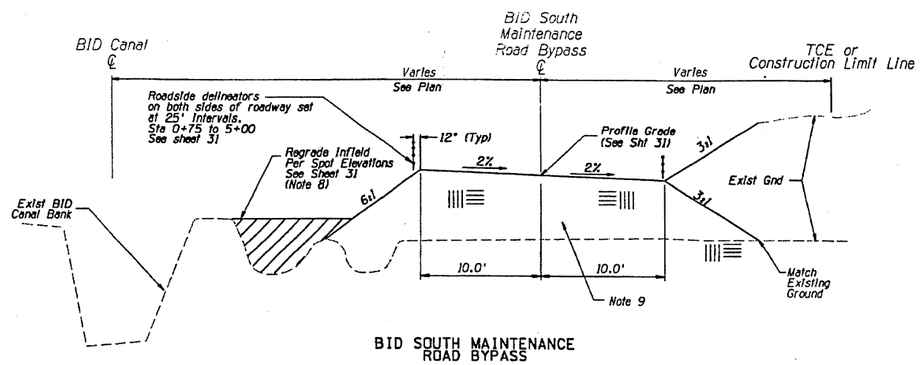
N.T.S.



GROUTED RIPRAP WRAP AROUND

DETAIL H6

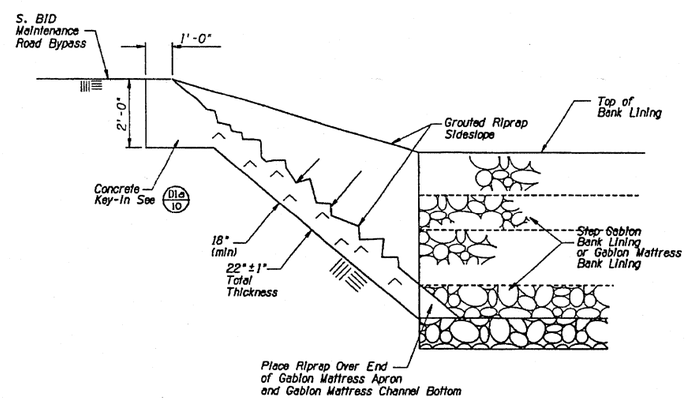
N.T.S.



BID SOUTH MAINTENANCE
ROAD BYPASS

SECTION H2

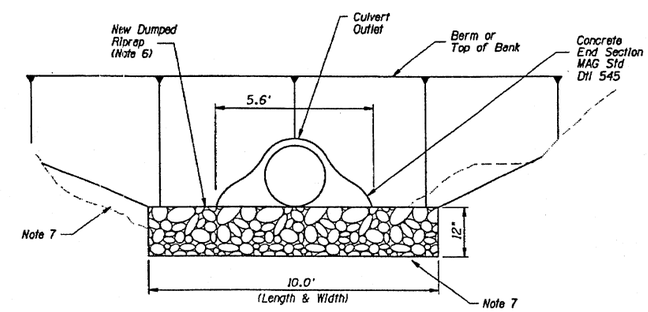
N.T.S.



GROUTED RIPRAP SIDESLOPE

SECTION H7

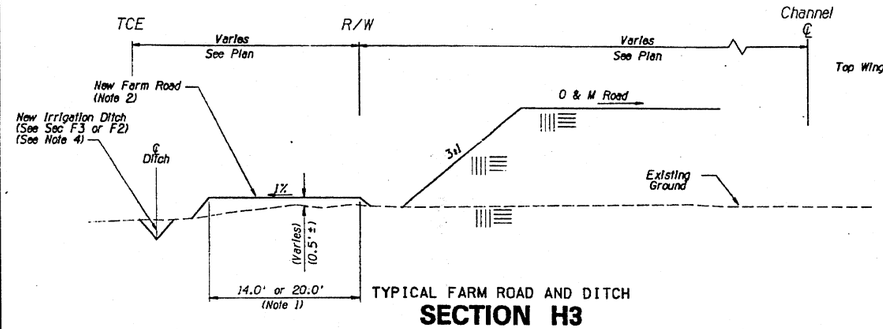
N.T.S.



DUMPED RIPRAP OUTLET PROTECTION

SECTION I1

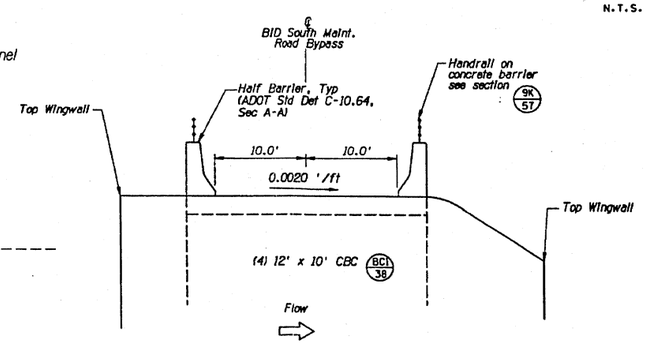
N.T.S.



TYPICAL FARM ROAD AND DITCH

SECTION H3

N.T.S.



SECTION H5

N.T.S.

Notes

1) Farm road width is 20.0' (Sta 31+40 to 70+66) and 14.0' (Sta 91+10 to 118+00).
2) See plans for spot elevations of farm road finish grade. Compact farm road fill to 85%.
3) See Profile for Farm road parallel to Lower Buckeye road. Compact farm road fill to 85%
4) Construct V-Ditches at locations shown on plans.
5) Compact roadway fill to 95%. Compact AB to 95%.
6) Install dumped Riprap (D_{50} = 6 in). Apron length equals width.
7) Compact under riprap outlet protection and adjacent fill to 95%
8) Compact landscaping berm, and regraded infield area to 85%
9) Compact South BID Maintenance Road to 85%

NO.	REVISION	BY	DATE
1			
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3			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. DLBERT	9/08/98

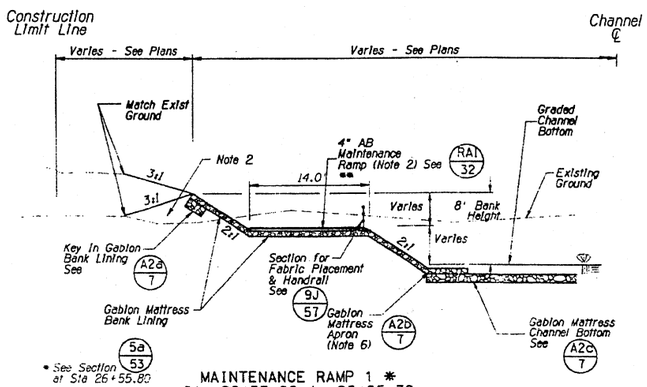
CERTIFICATE OF ENGINEERING SERVICES — 13955 BRADFORD D. ELBERT — ARIZONA, U.S.A.

Sverdrup
CORPORATION

MISCELLANEOUS TYPICAL SECTIONS
SECTIONS H1-H7 and I1

SHEET 12 OF 81

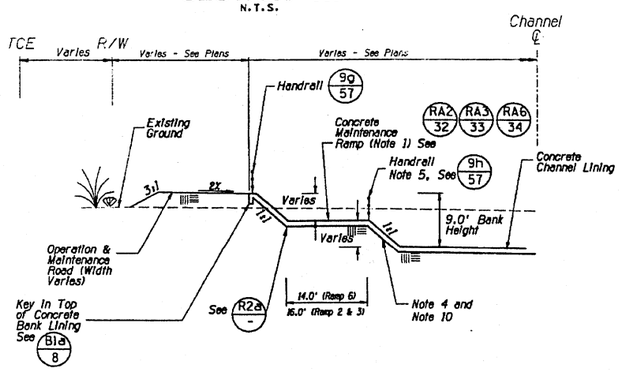
Filename: H4typsect
Plotted By: Hagerman Date: Mp/dd/dd/ss



MAINTENANCE RAMP 1 *
Sta 26+55.80 to 28+25.39
Sta 28+25.39 to 28+60.56 **

SECTION R1

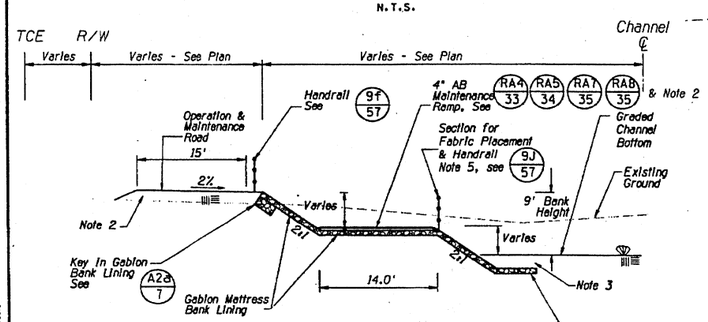
N.T.S.



MAINTENANCE RAMPS 2, 3, 6
Sta 31+36.46 to 33+34.70
Sta 31+47.19 to 33+28.00
Sta 75+55.72 to 77+48.31

SECTION R2

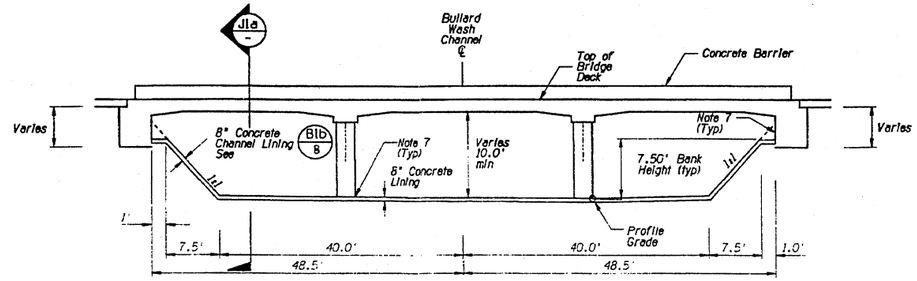
N.T.S.



MAINTENANCE RAMPS 4, 5, 7, & 8
Sta 60+26.45 to 62+22.61
Sta 64+11.83 to 66+08.03
Sta 91+93.86 to 93+71.17
Sta 115+50.00 to 117+46.91

SECTION R3

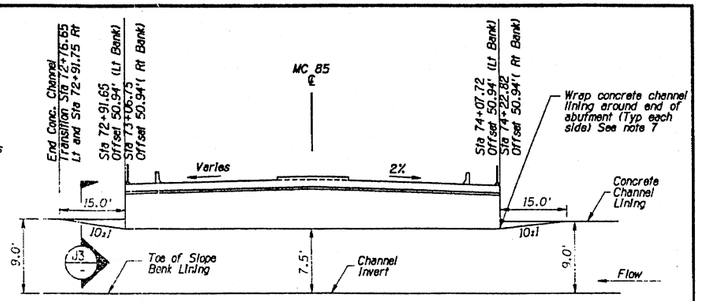
N.T.S.



BULLARD WASH CHANNEL
UNDER MC 85 BRIDGE

SECTION J1

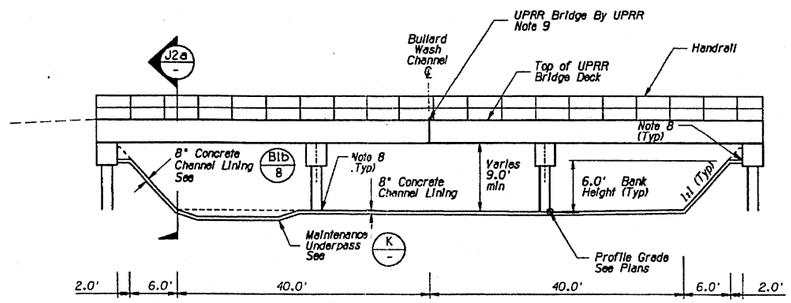
N.T.S.



BANK PROFILE UNDER MC 85 BRIDGE J1a

PROFILE

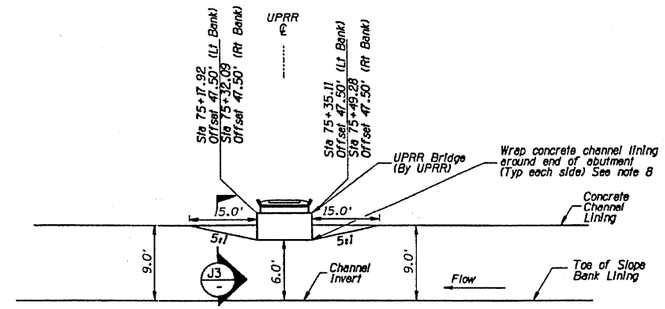
N.T.S.



BULLARD WASH CHANNEL
UNDER UPRR BRIDGE

SECTION J2

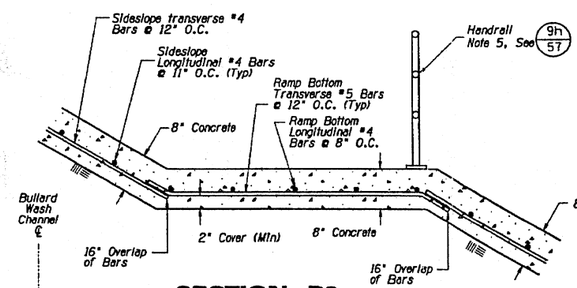
N.T.S.



BANK PROFILE UNDER UPRR BRIDGE J2a

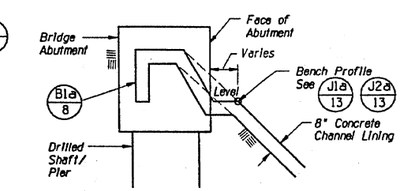
PROFILE

N.T.S.



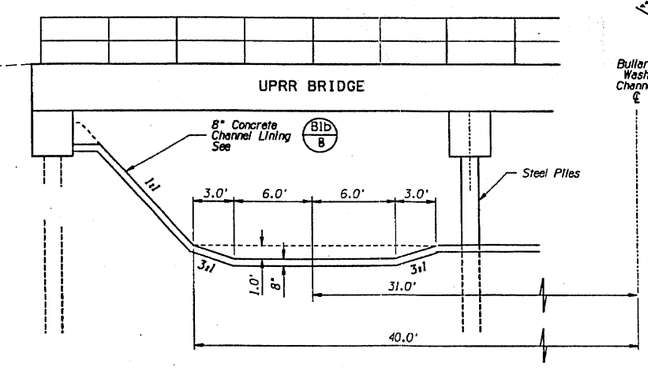
SECTION R2a

N.T.S.



CHANNEL BENCH AT BRIDGES
MC 85 BRIDGE & UPPR BRIDGE J3

N.T.S.



MAINTENANCE UNDERPASS

SECTION K

N.T.S.

Notes

1) Concrete ramp shall be roughened, with raked finish Portland cement, cast in place, 8-inch minimum thickness.

2) Compact soil under O & M road, or channel bank and concrete channel/ditch lining to 95%. Compact AB on Maintenance Ramp to 85%.

3) Backfill over gabion apron, compact to 85%.

4) Sideslopes of concrete ramp shall be broom finish, Portland cement.

5) Install 42" high handrail; for location see Detail 7, sht 55 for anchoring and installation, see Detail 9, sht 57.

6) Soil cover over apron is 0.25'.

7) Install premolded joint filler full depth around concrete bridge pier and between abutment and bank lining. See Detail 18, sht 63.

8) Install premolded joint filler full depth around steel piles and between abutment and bank lining. See Detail 19, sht 63.

9) UPRR bridge to be constructed by UPRR forces.

10) Ramp 6 lower sideslope varies from 1:1 to 1.27:1 Sta 76+04 to Sta 77+00 (Bullard Wash Stations)

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

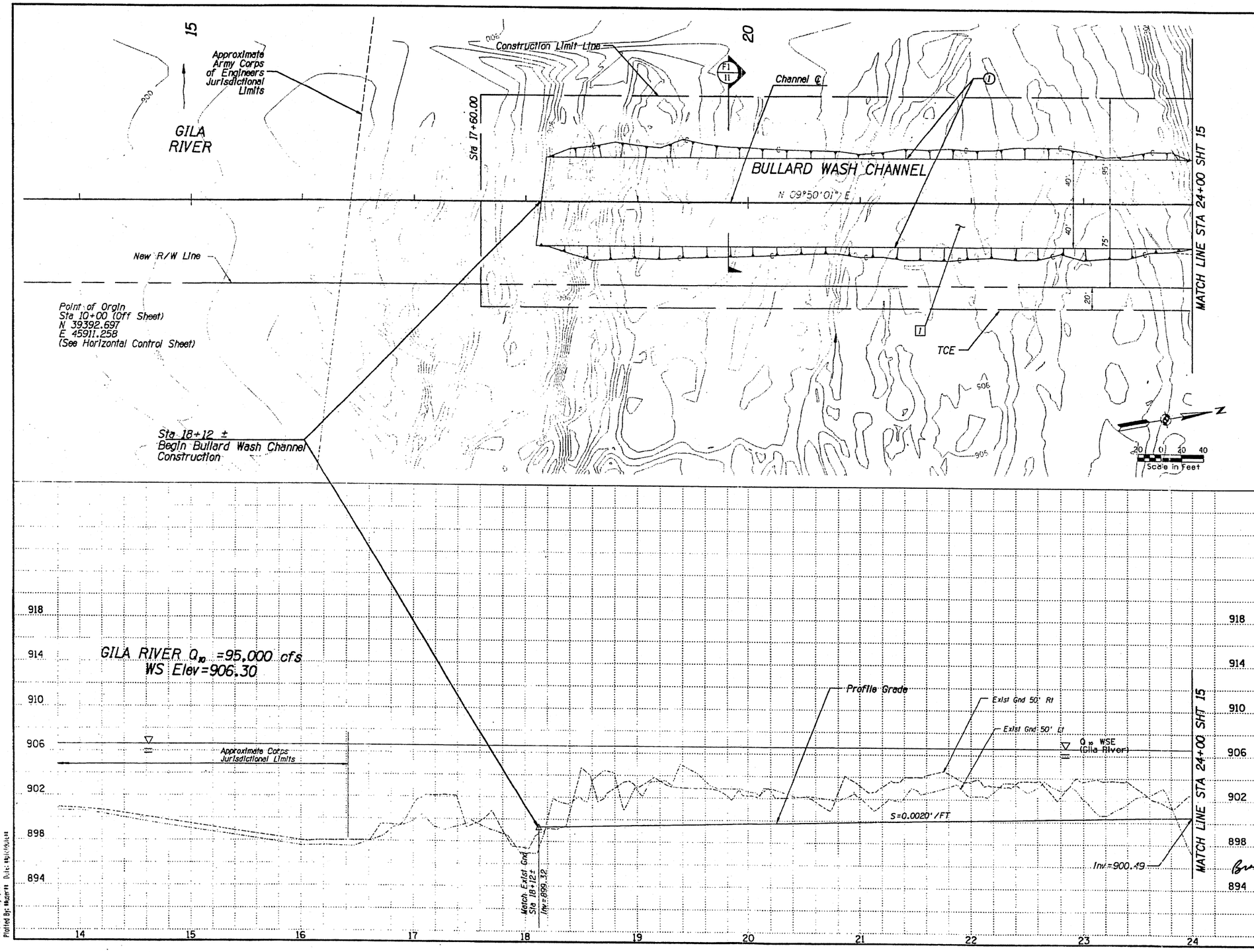
REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD D. OLBERT ARIZONA U.S.A.

Sverdrup
CORPORATION

CHANNEL TYPICAL SECTIONS
R1, R2, R3, J1, J2 and K

SHEET 13 OF 81

Filename: MAGPSPC98
Plotted By: MAGSER98 Date: 09/10/1998



REMOVAL/RELOCATE

1. Clear and Grub (20 trees exceeding 6"ø) Sta 18+00 to Sta 24+00, 75' Lt & Rt (2 Acres)

CONSTRUCTION

1. Grade Channel Bottom and Sideslopes to Daylight. See F1/11

NO.	REVISION	BY	DATE
1			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

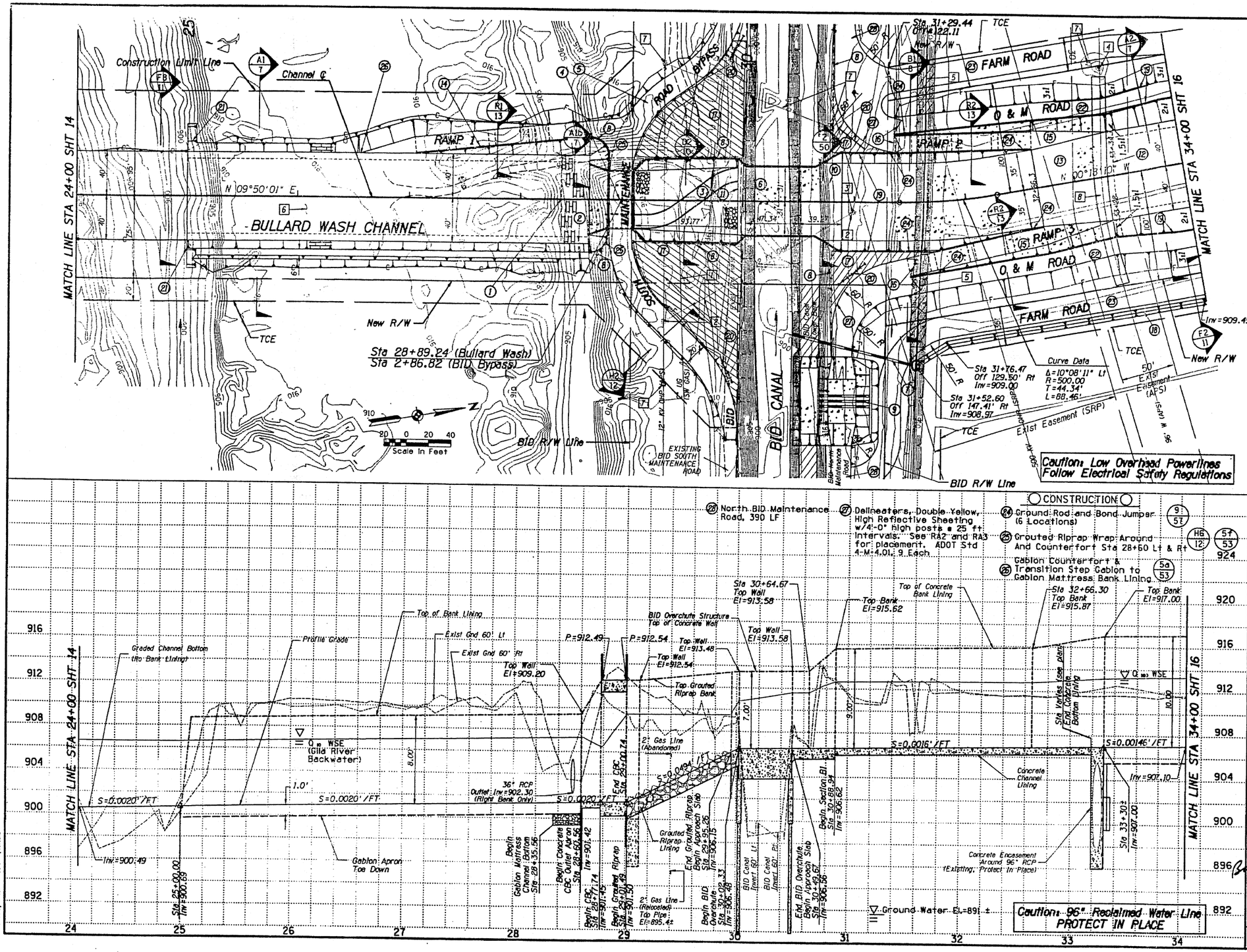
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

REGISTERED PROFESSIONAL ENGINEER (Civil) CERTIFICATE NO. 13955 BRADFORD D. OLBERT Date Signed 9/8/98 ARIZONA, U.S.A.

Sverdrup
CORPORATION

PLAN AND PROFILE
STA 14+00.00 TO STA 24+00.00

SHEET 14 OF 81



CONSTRUCTION

(28) North BID Maintenance Road, 390 LF

(27) Delineators, Double Yellow, High Reflective Sheeting w/4'-0" high posts @ 25 ft. Intervals. See RA2 and RA3 for placement. ADOT Std 4-M-4.01. 9 Each

(24) Ground Rod and Bond Jumper (6 Locations) (9 / 57)

(25) Grouted Riprap Wrap Around And Counterfort Sta 28+60 Lt & Rt (H6 / 12) (5f / 53)

(26) Gabion Counterfort & Transition Step Gabion to Gabion Mattress Bank Lining (5a / 53)

REMOVAL/RELOCATE

1. Relocate 2" Gas (Buried) by SW Gas
2. Relocate Service Pole & Overhead Service Line (APS)
3. Relocate UG Service Line (by APS)
4. Protect In Place Manhole Structure (APS)
5. Fill & Compact Exist Dirt Irr Ditch
6. Clear & Grub Existing Underbrush Sta 24+00 to 29+00, 75' Lt & Rt (1.72 Acres)
7. Protect In Place O/H Power Poles & U/G Services
8. Protect In Place Exist Conc. Pipe Encasement for 96" Pipeline (APS)

CONSTRUCTION

(1) New Gabion Mattress Channel Bottom See (A1b / 7) (A2c / 7)

(2) New 36" RGRCP 24 LF with Hdwl, See (P1 / 38) (MAG Std Det 501-4)

(3) New Grouted Riprap Grade Control Structure # 1 496 CY and Concrete O & M Path 104 LF, See (3 / 51)

(4) New (4) 12'x10' CBC, See (BC1 / 38)

(5) New 20' Wide BID Bypass Road, See (H2 / 12) See Also Sheet 31 Plan & Profile

(6) New BID Canal Overchute Structure, See Plan Sheet 73

(7) New 24" DIP, 112 LF, with Headwall, See (P2 / 39) (MAG Std Det 501-5)

(8) New 4-Wire Fence 520 LF (7a / 55) See Detail for Locations

(9) New (3) 24" RGRCP 45 LF (Ea) and Concrete Spillway, 715 SY (P12 / 39)

(10) New Concrete Approach Slab, See (2 / 50)

(11) New Concrete Cutoff wall See (3a / 51)

(12) Existing Concrete Pipe Encasement (Protect In Place, APS) and Gabion Erosion Apron (1 / 49)

(13) Trans Sec B1 to Sec A2, Sta 32+66.3 to 33+80 Lt & Rt. See Det 1 Sheet 49.

(14) New Maintenance Ramp #1, See (R1 / 13) and (RA1 / 32) See Plan & Profile, Sheet 32

(15) New Maintenance Ramp #2 & 3, See (R2 / 13) (RA2 / 32) (RA3 / 33) See Plan & Profile Sheet 32 & 33

(16) New Access Gate, Sta 31+36, 60.0' Lt, 62.7' Lt; Sta 31+50, 65.6' Rt & 69.0' Rt ; see (6 / 54)

(17) Regrade Infield Area (NPI) See Sheet 31 and 50.

(18) New Graded V-Ditch 600 LF @ Rt (F2 / 11)

(19) New Handrail 516' LF @ Lt, 447 LF @ Rt, See (7b / 55)

(20) New Barricade, 55 LF @ Lt, 55 LF @ Rt, see (7d / 55) MAG Std Dtl 130, Type "B"

(21) Step Gabion Bank Lining Terminus (10e / 58)

(22) 15' O & M Road 350 LF @ Lt & 350 LF @ Rt, W/ 4" AB

(23) New 20' Farm Road 271 LF @ Lt, 409 LF @ Rt (A2 / 7) Also See Sec. B1, Sheet 8.

NO.	REVISION	BY	DATE
1			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Bradford D. Olbert

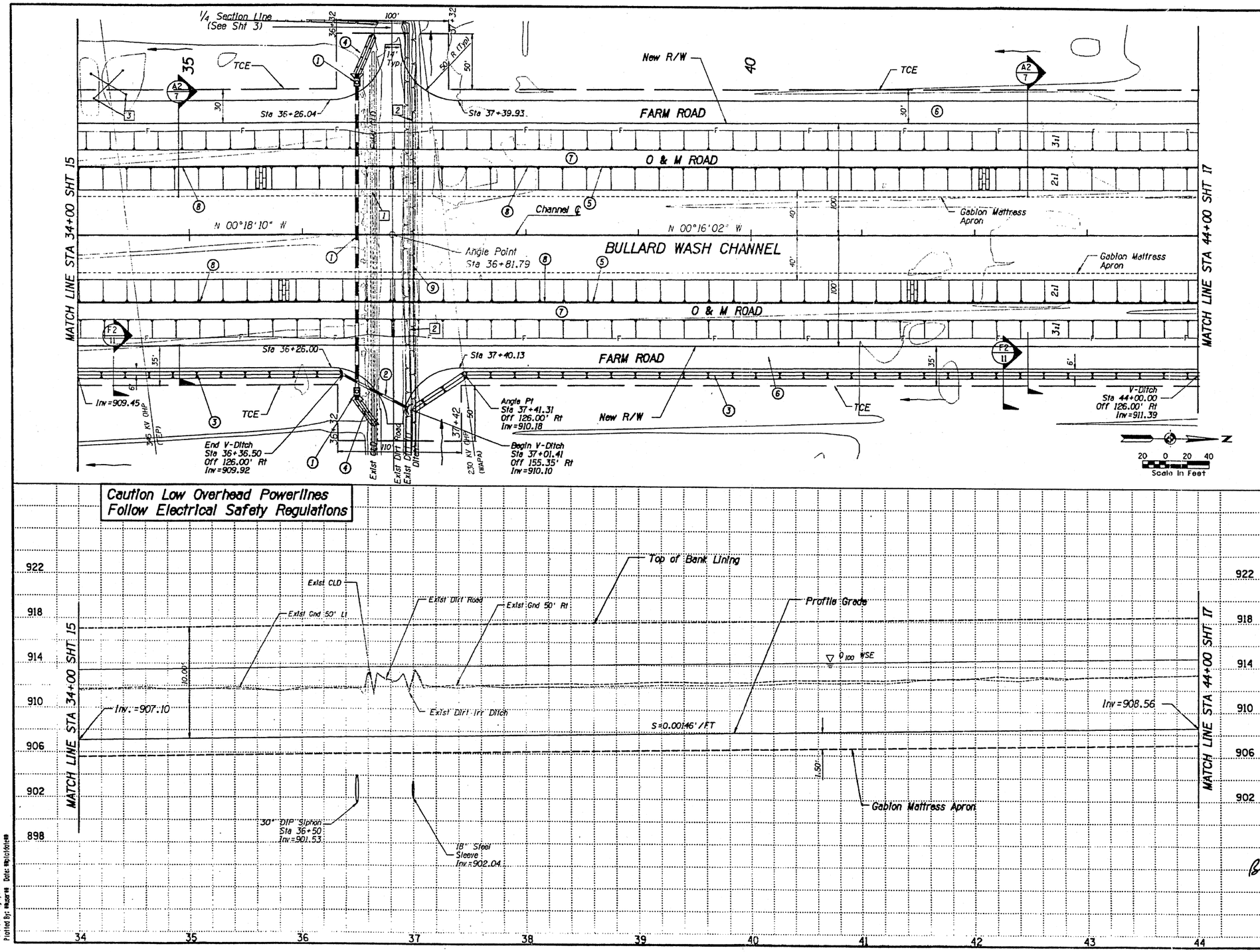
REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD D. OLBERT ARIZONA U.S.A. 9/08/98

Sverdrup
CORPORATION

PLAN AND PROFILE
STA 24+00.00 TO STA 34+00.00

SHEET 15 OF 81

Filename: 4700731
Plotted By: BLOGAN Date: 9/10/1998



Caution Low Overhead Powerlines Follow Electrical Safety Regulations

REMOVAL/RELOCATE

1. Remove Exist CLD 350 LF, Fill and Compact
2. Fill & Compact Exist Dirt Ditch
3. Protect In Place Exist OHP Tower Structure (Tucson Electric Power)

CONSTRUCTION

1. New 30" DIP 271 LF, Sta 36+50 Siphon & Irr Siphon Manholes, See S1/45 12/60
2. New 24" RGRCP 65 LF & Hdwls; See P3/45 (MAG Std Det 501-1)
3. New Graded V-Ditch 935 LF @ Rt F2/11
4. New CLD 36 LF @ Lt, 26 LF @ Rt For Location and Grade; See S1/45
5. New 42" Handrail 1000 LF @ Lt & 1000 LF @ Rt; see 7b/55
6. New Graded 20' Farm Road 1050 LF @ Lt, 1050 LF @ Rt; see A2/7
7. 15' O & M Road W/ 4" AB 1000 LF @ Lt, 1000 LF @ Rt
8. Ground Rod and Bond Jumper (4 Locations) 9/57
9. New 18" Steel Sleeve, Sta 36+99.79, Off 110' Lt to 110' Rt, 220 LF, Plug Ends

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
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	BY	DATE
DESIGNED	D. STOUGH	8/25/98
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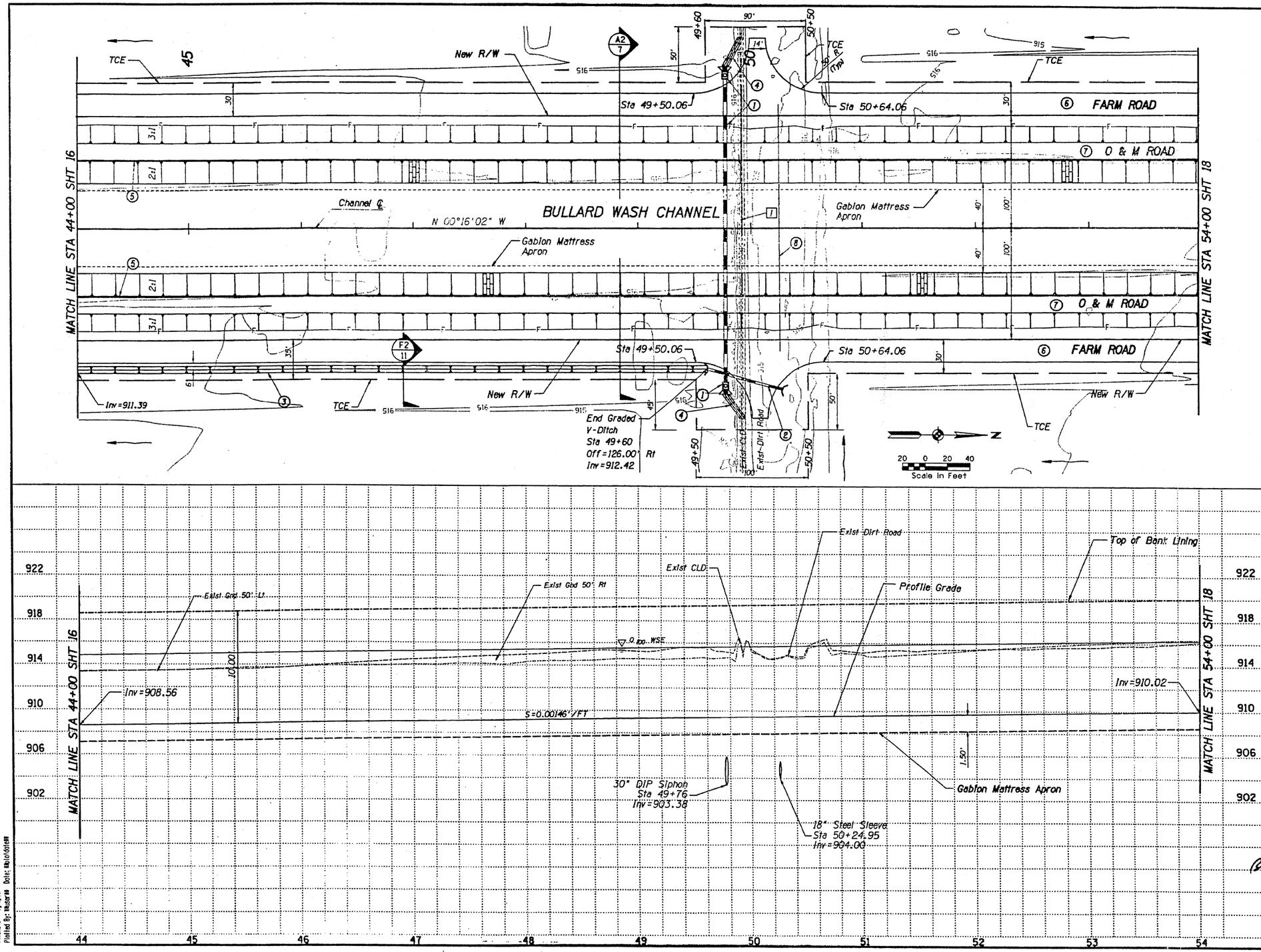
CHECKED	R. MILES/B. OLBERT	9/08/98

Sverdrup CORPORATION

PLAN AND PROFILE
STA 34+00.00 TO STA 44+00.00

SHEET 16 OF 81



REMOVAL/RELOCATE

1. Remove Exist CLD 340 LF; Fill and Compact

CONSTRUCTION

1. New 30" DIP 272 LF Siphon & Irr Siphon Manholes See S2/46 and 12/60, Sta 49+76.40
2. New 24" RGRCP 67 LF & Hdwls (MAG Std Det 501-1 & 501-5) For Location & Grade, See P4/46
3. New Graded V-Ditch 560 LF @ Rt, See F2/11
4. New CLD 39 LF @ Lt, 27 LF @ Rt For Location/Grade see S2/46
5. New 42" Handrail; see 7b/55 1000 LF @ Lt, 1000 LF @ Rt
6. New Graded 20' Farm Road 1050 LF @ LT, 1050 LF @ Rt A2/7
7. 15' O & M Road W/ 4" AB 1000 LF @ Lt, 1000 LF @ Rt
8. New 18" Steel Sleeve, Sta 50+24.95, Offset 110' Lt and 110' Rt, 220 LF

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. DLBERT	9/08/98

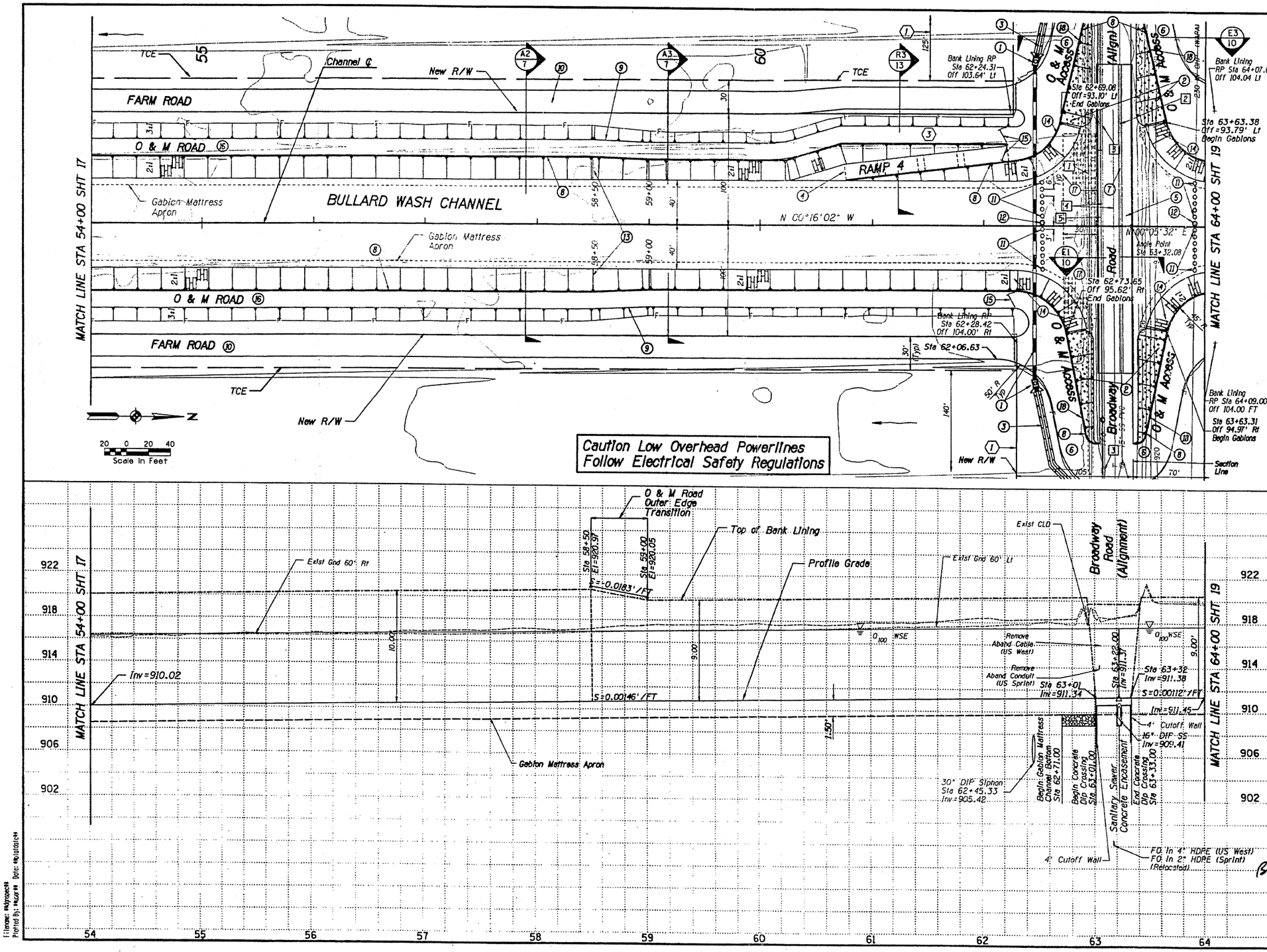
REGISTERED PROFESSIONAL ENGINEER 13559 BRADFORD D. OLBERT ARIZONA U.S.A.

Sverdrup CORPORATION

PLAN AND PROFILE
STA 44+00.00 TO STA 54+00.00

SHEET 17 OF 81

Filename: mkypgpc4
Plotted By: Hussein Date: 8/10/1998



REMOVAL/RELOCATE

1. Remove Exist CLD 518 LF, See (11/59)
2. Remove 15" PVC San Swr 440 LF See (11/59)
3. Relocate 12 Kv OHP & Wood Poles (by APS) (2 Ea)
4. Relocate Tel Cable (by US West)
5. Relocate FO Cable (by US Sprint)

(1) See Detail 11, Sheet 59 for TCE & R/W Dimensions in Broadway Rd Area and O & M Access Road Geometry.

(2) See Detail Sheet DIP Crossing/ SS Encasement for Location of Utilities in Broadway Road (Align) (11/59)

(3) See Detail RA4, Sheet 33 for O & M Road Geometry Around Ramp 4.

CONSTRUCTION

1. New 30" DIP Siphon 284 LF & Irr Siphon Manholes Sta 62+45.33; See (S3/47) (12/60)
2. New Gravel Mulch, 635 SY
3. New CLD 112 LF Lt & 120 LF Rt For Location & Grade, See (S3/47)
4. New Maintenance Ramp #4, Sta 60+26.45 to 62+29.68 (Section R3, Lt Bank Only) (RA4/33) (R3/13)
5. New Concrete Dip Crossing 934 SY, See (11/59) and (2) 4' Cutoff Walls
6. New 24' O & M Road Access w/ 4" AB, (For Location/Offsets) See (11/59)
7. New 16" DIP San Swr 440 LF w/ Concrete Encasement 140 LF, See (11/59)
8. New Handrail, 1,211 LF Lt, 1,211 LF Rt for Locations See Table 7b (9/57) (7b/55)
9. 50' Transition O & M Road Section A2 to A3 Sta 58+50 to 59+00 ℄ Lt
10. New 20' Farm Road 826 LF Lt & 826 LF Rt (A2/7) (A3/7)
11. New Safety Posts (Fixed) at Sta 62+52 and 63+90 9' Lt @ 6' O.C (6 Ea), and 3' Rt @ 6' OC (7 Ea); See MAG Std Det 140
12. New Removeable Safety Post Sta 62+52, 3' Lt and Sta 63+90, 3' Lt (17/63)
13. Bank Transition, Sec A2 to Sec A3 Sta 58+50 to 59+00 (Lt and Rt) (A2/7) (A3/7)
14. Gabion Mattress Bank Lining 40' Radius Bends (Typ), See and Plan for Rad Pt Locations (A2/7)
15. New Access Gate, Sta 62+20, Off 71.0' Lt, 75.0 Lt and Sta 62+27, Off 73.0' Rt (6/54)
16. 15' O & M Road w/ 4" AB 1166 LF @ Lt and 1166 LF @ Rt
17. Gabion Mattress Channel Bottom Sta 62+71.00 to 63+01.00, See (A2c/7)
18. Ground Rod and Bond Jumper (4 Locations) (9/57)

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	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Bradford D. Olbert
13955 BRADFORD D. OLBERT
REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 13955
MARICOPA, ARIZONA, U.S.A.

Sverdrup
CORPORATION

PLAN AND PROFILE
STA 54+00.00 TO STA 64+00.00

SHEET 18 OF 81

Filename: MAYSPACE18
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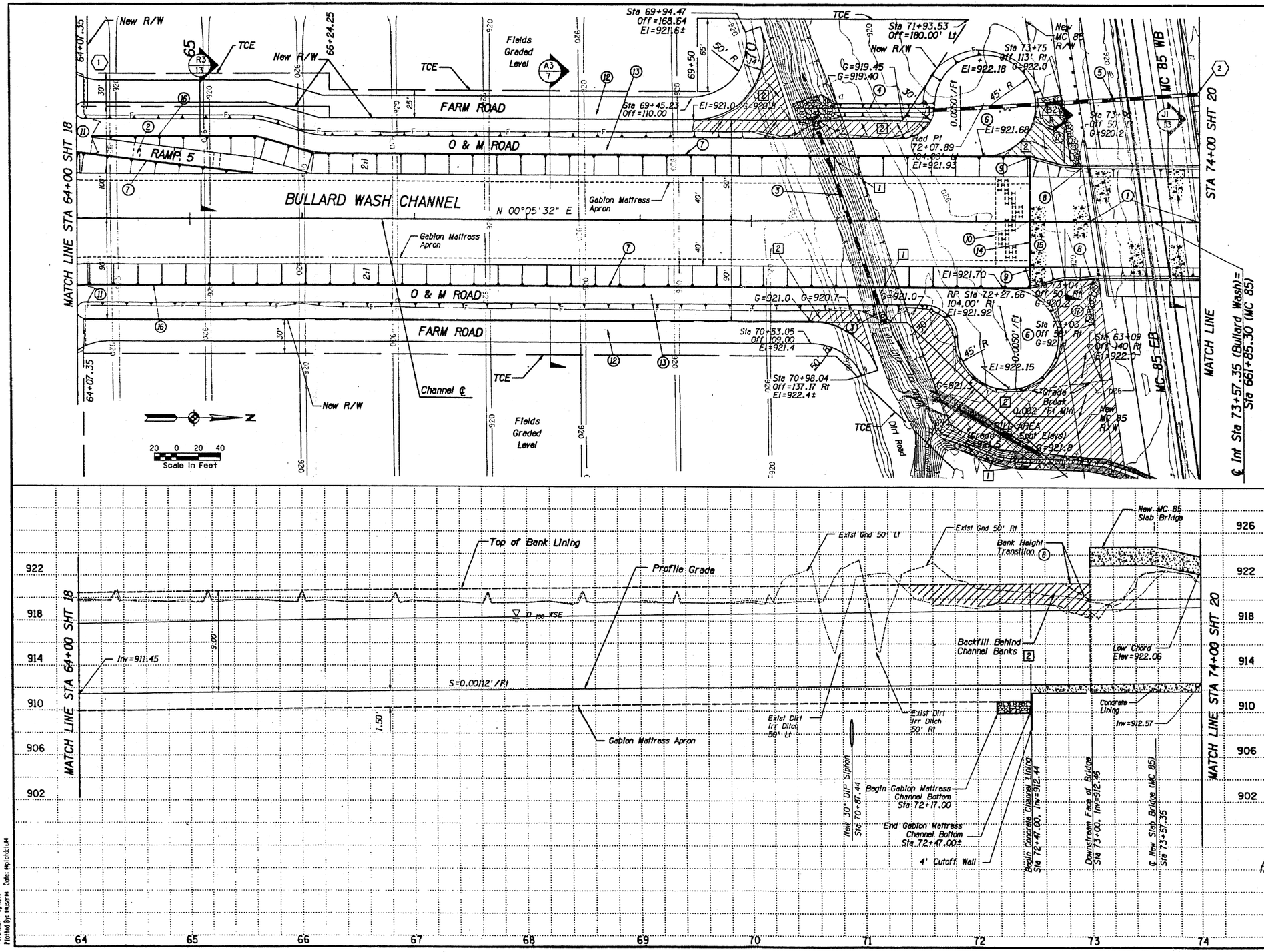

REMOVAL/RELOCATE

1. Fill and Compact Exist Dirt Irr Ditch 380 CY
2. Fill area to Limits and Spot Elevations Shown.

1. See Detail 11, Sheet 59 for TCE & R/W Dimensions in Broadway Road Area
2. Pipe 5 Inlet HW (MAG Std Det 501-4) and Pipe Shown on Sht 20 are Accounted for on this Sheet

CONSTRUCTION

1. New Slab Bridge, MC 85 See Estrella Parkway Roadway Plans, Shts 106-118
2. New Maintenance Ramp, #5, Sta 64+02.19 to 66+10.64 (Lt Bank Only) See RA5/34 R3/13
3. New 30" DIP 174 LF Siphon & Irr Siphon Manholes Dumped Riprap at Outlet (26 Cu Yd) S4/48 12/60
4. New Dirt Irr Ditch 85 LF, See (Location & Grade) P5/40 and F4/11
5. New 36" RGRCP (Pipe 5), 266 LF w/ 2 Headwalls,(MAG Std Det 501-4) see P5/40
6. Backfill and Compact Cul-de-sac to Spot Elevations Shown with 4" AB
7. New Handrail 1036 LF Lt, 899 LF Rt, For Location See Table 7b, and see 9/57 7b/55
8. Bank Height Transition, 9' to 7.5' Height See J1a/13
9. End Gabion Mattress Bank Lining, Sta 72+47, Begin Concrete Channel Lining, Trans 2:1 SS to 1:1 SS at Sta 72+76.65 (Both Banks) B2/8
10. Begin Gabion Mattress Channel Bottom, Sta 72+17.00, 89 Cu Yd, See A2c/7
11. New Access Gate, Sta 64+14, Off 71.1' Lt and 75.0' Lt, and Sta 64+09, Off 73.3' Rt; see 6/54
12. New 20' Farm Road 626 LF Lt, 702 LF Rt, See A3/7
13. 15' O & M Road W/4" AB 740 LF Lt, 755 LF Rt
14. Concrete Cutoff Wall, 118 LF 5d/53 5b/53
15. New Concrete Lined Channel B2/8
16. Ground Rod and Bond Jumper (2 Locations) 9/57
17. Dumped Riprap, 12" T x 5' W x 60 LF Lt & 40 LF Rt D50=6", 19 Cu Yd, Place Against Roadway Fill Slope

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Bradford D. Olbert
CERTIFICATE NO. 13955 BRADFORD D. OLBERT ARIZONA, U.S.A.

Sverdrup CORPORATION

PLAN AND PROFILE
STA 64+00.00 TO STA 74+00.00

SHEET 19 OF 81

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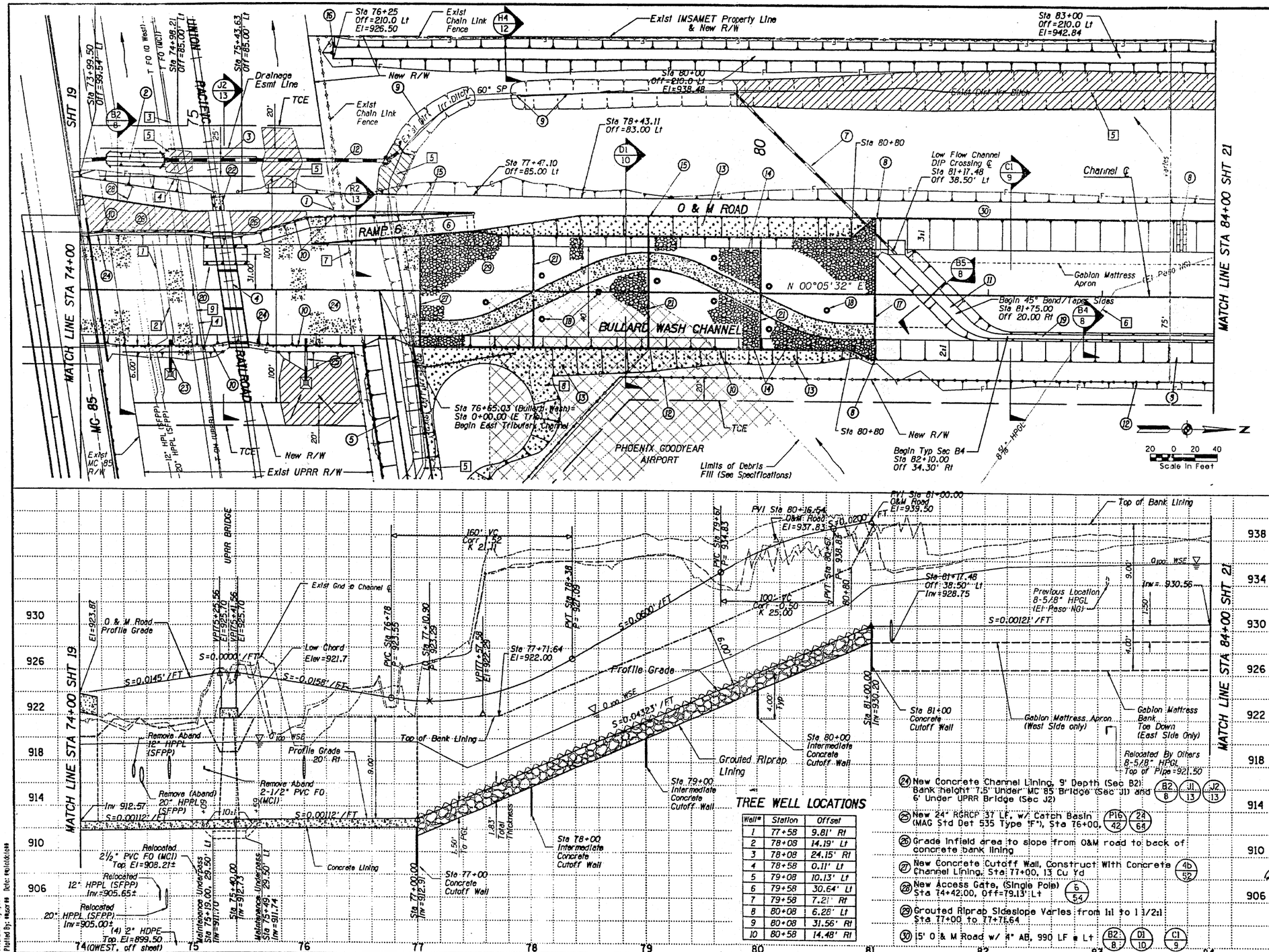

TREE WELL LOCATIONS

Well#	Station	Offset
1	77+58	9.81' Rt
2	78+09	14.19' Lt
3	78+08	24.15' Rt
4	78+58	0.11' Lt
5	79+08	10.13' Lt
6	79+58	30.64' Lt
7	79+58	7.21' Rt
8	80+08	6.26' Lt
9	80+08	31.56' Rt
10	80+58	14.48' Rt

REMOVAL/RELOCATE

1. Relocated 12" HP Petroleum Pipeline (by SFPP) Protect In Place
2. Relocated 20" HP Petroleum Pipeline (by SFPP) Protect In Place
3. Relocated Tel FO Cable (by MCI) Protect In Place
4. Relocated Railroad Switching OH Lines (UPRR) Protect In Place
5. Fill and Compact Dirt Irr Ditch.
6. Relocate 8⅝" HP Gas Pipeline (by El Paso NG)
7. Remove Existing Chain Link Fence 145 LF @ Lt & 50 LF @ Rt of Channel ℄
8. Remove Buried Construction Materials 1500 Tons
9. Remove Abandoned 2" Conduit (MCI)

CONSTRUCTION

1. New 12' Access Gate, Chain Link Fence Sta 76+24.7, Off=71.00' Lt (MAG Std Det 160)
2. New Dirt Irr Ditch 55 LF @ Lt, See P6/40 F4/11
3. New 30" RGRCP (Pipe 6) 209 LF, w/ Sleeve Jacked Under RR 75 LF w/ 1 Hdwl (MAG Std Det 501-4) and 1 Hdwl (MAG Std Det 501-5) P6/40 23/64
4. New 3-Span Precast Concrete Railroad Bridge (By UPRR)
5. New Concrete Lined E Trib Chl, See Sht 26, & B3/8
6. New Concrete Maintenance Ramp, Sta 75+55.72 to 77+43.03 (Lt Bank); see RA6/34 R2/13
7. New 24" RGRCP (Pipe 7), 201 LF Headwall in Bank Lining (Inlet),Outlet Headwall (MAG Std Det 501-4); See P7/41 25/64
8. Begin Gabion Mattress Bank Lining (Sec C1), 3:1 SS, Sta 81+00, See C1/9
9. Clean Out 60" Steel Pipe & Reshape Ditch to Accomodate New Headwall (Pipe 7), see F4/11
10. New 4-Wire Fence 200 LF @ Lt, 608 LF @ Rt, See 7a/55
11. New Low Flow Channel DIP Crossing, See B5/8
12. New Chain Link Fence, (MAG Std Det 160) 524 LF @ Rt, See Table 7c for Locations 7c/55
13. New Gravel Mulch, 1210 SY
14. New Grouted Riprap Channel Lining 2351 CY and O & M Path 425 LF Sta 77+00 to 81+00, 4/52 D1/10
15. New Handrail 617 LF @ Lt, See 7b/55
16. Begin New Landscaping Berm, Sta 76+25, Off=210' Lt, 1636 CY, See H4/12
17. New Concrete Cutoff Wall 20 CY, & Gabion Counterfort, Sta 81+00 3C/51 5c/53
18. New Tree Well 10 Ea, (For Locations See Table This Sheet) 21/63
19. New 4' BW Concrete Low Flow Channel, Sta 82+10, 300 LF B4/8
20. New 12' Wide Maintenance Underpass Under UPRR Bridge, See K/13
21. New Intermediate Concrete Cutoff Wall; 28 CY Sta 78+00, 79+00, 80+00; Sea 4a/52
22. New Concrete RR At-Grade Crossing by UPRR
23. New 24" RGRCP 28 LF, w/ Catch Basin (MAG Std Det 535 Type "F"), Sta 74+80, P14/44 24/64
24. New Concrete Channel Lining, 9' Depth (Sec B2) Bank height 7.5' Under MC 85 Bridge (Sec J1) and 6' Under UPRR Bridge (Sec J2) B2/8 J1/13 J2/13
25. New 24" RGRCP 37 LF, w/ Catch Basin (MAG Std Det 535 Type "F"), Sta 76+00, P16/42 24/64
26. Grade Infield area to slope from O&M road to back of concrete bank lining
27. New Concrete Cutoff Wall, Construct With Concrete Channel Lining, Sta 77+00, 13 Cu Yd 4b/52
28. New Access Gate, (Single Pole) Sta 74+42.00, Off=79.13' Lt 6/54
29. Grouted Riprap Sideslope Varies from 1:1 to 1 1/2:1 Sta 77+00 to 77+71.64
30. 15' O & M Road w/ 4" AB, 990 LF @ Lt B2/8 D1/10 C1/9

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Bradford D. Olbert — Certificate No. 13955 — Arizona U.S.A.

Sverdrup CORPORATION

PLAN AND PROFILE
STA 74+00.00 TO STA 84+00.00

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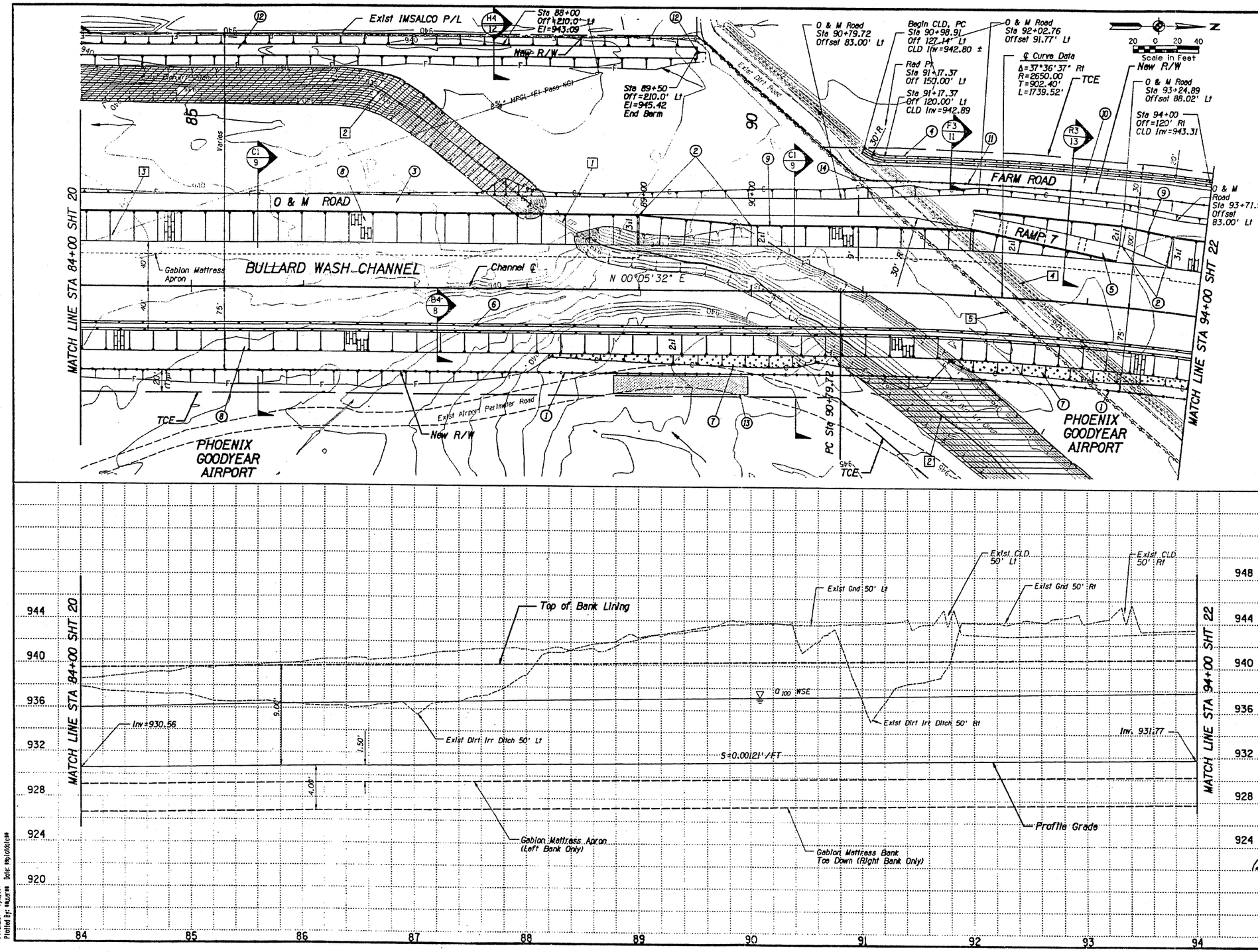

REMOVAL/RELOCATE

1. Remove Exist 24" CP 60 LF
2. Fill & Compact Exist Dirt Irr Ditch See Sheet 5
3. Relocate Exist HPGL (by El Paso NG)
4. Remove Exist CLD 380 LF Sta 90+99 Off=127.1' Lt to Sta 93+57, Off=80' Rt, Fill & Compact As Reqd.
5. Remove Exist Chain Link Fence 385 LF, Sta 90+90, Off 100' Lt to Sta 93+15, Off 75' Rt

CONSTRUCTION

1. New Chain Link Fence 1000 LF @ Rt (MAG Std Det 160), See Table 7c For Location (7c/55)
2. New 100' Channel (Left Bank) Transition Sideslope Varies from 3:1 to 2:1; Sta 89+00 to 90+00 Varies from 2:1 to 3:1, Sta 93+25 to 93+72
3. 15' O & M Road w/ 4" AB, 1000 LF @ Lt (C1/9)
4. New CLD 300 LF, See (F3/11)
5. New Maintenance Ramp @ 7 Sta 92+00.00 to 93+72.24; See (RA7/35) (R3/13)
6. New Low Flow Channel 1000 LF (B4/8)
7. New Gravel Mulch, 480 SY
8. New Gabion Mattress Bank Lining, 3:1 SS Lt Bank, (Sta 84+00 to 89+00 & 93+72 to 94+00) 2:1 SS Rt Bank (C1/9)
9. New Handrail 606 LF, See (7b/55)
10. New 14' Wide Graded Farm Road 330 LF See (H3/12)
11. New 4-Wire Fence 300 LF, See (7a/55)
12. New Landscaping Berm, 1162 CY, See End at Sta 89+50, Off=210.00' Lt (H4/12)
13. New 20' Airport Perimeter Road, w/ 4" AB Sta 88+70 to 90+02, Off=85' Rt
14. At Sta 90+95± Lt Set Corner Post for Chain Link Fence and Tie South End of 4-Wire Fence to Corner Post

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

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DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Bradford D. Olbert
CERTIFICATE OF REGISTRATION 13955 BRADFORD D. OLBERT ARIZONA U.S.A.
9/8/98

Swerdrup CORPORATION

PLAN AND PROFILE
STA 84+00.00 TO STA 94+00.00

SHEET 21 OF 81

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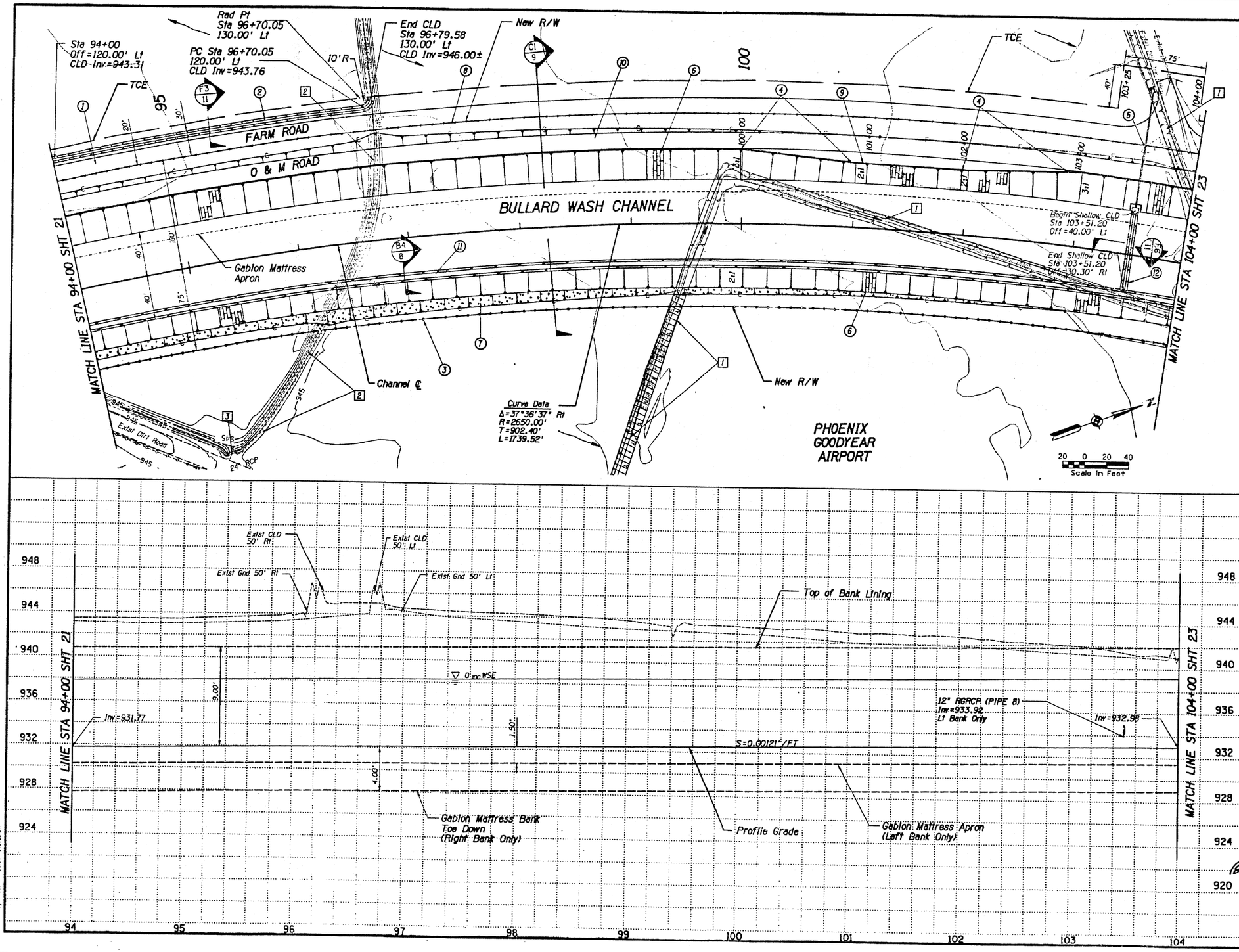

REMOVAL/RELOCATE

1. Fill & Compact Exist Dirt Irr Ditch. See Sheet 5
2. Remove Existing CLD 483 LF, Fill and Compact As Required
3. Remove Exist 24" RCP

CONSTRUCTION

1. New 14' Wide Graded Farm Road, 1000 LF Lt See H3/12
2. New CLD 290 LF Lt, See F3/11
3. New Chain Link Fence 1000 LF ℄ Rt (MAG Std Dtl 160), See Table 7c for Locations 7c/55
4. New 100' Channel (Left Bank) Transition Sideslope Varies from 3:1 to 2:1; Sta 100+00 to 101+00 Varies from 2:1 to 3:1, Sta 102+00 to 103+00
5. New 12" RGRCP 105 LF & Headwall w/ Trash Rack (MAG Std Dtl 502-1) P8/41 25/64
6. New Gabion Mattress Bank Lining, 3:1SS Lt Bank Sta 94+00 to 99+00, and 103+00 to 104+00 2:1 SS Lt Bank, Sta 101+00 to 102+00, 2:1 SS Rt Bank CI/9
7. New Gravel Mulch 700 SY ℄ Rt
8. New 4-Wire Fence, 1000 LF ℄ Lt, See Table 7a For Locations 7a/55 16/63
9. New Handrail, 300 LF ℄ LT, See and See Table 7b For Locations 9/57 7b/55
10. 15' O & M Road w/4" AB, 1000 LF ℄ Lt
11. New Low Flow Channel 1000 LF B4/8
12. Shallow Concrete Lined Ditch 71 LF Sta 103+51.20 F6/11

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
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Bradford D. Olbert
REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD D. OLBERT ARIZONA U.S.A. 9/8/98

Sverdrup CORPORATION

PLAN AND PROFILE
STA 94+00.00 TO STA 104+00.00

SHEET 22 OF 81

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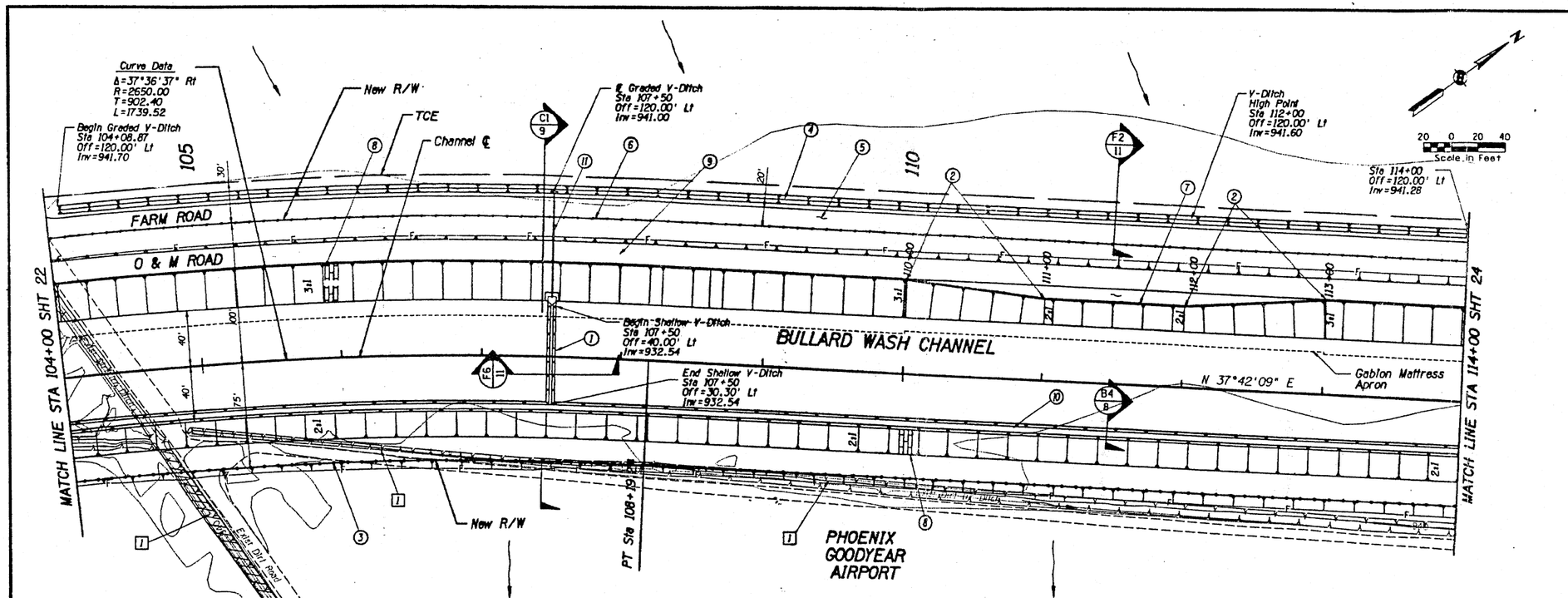

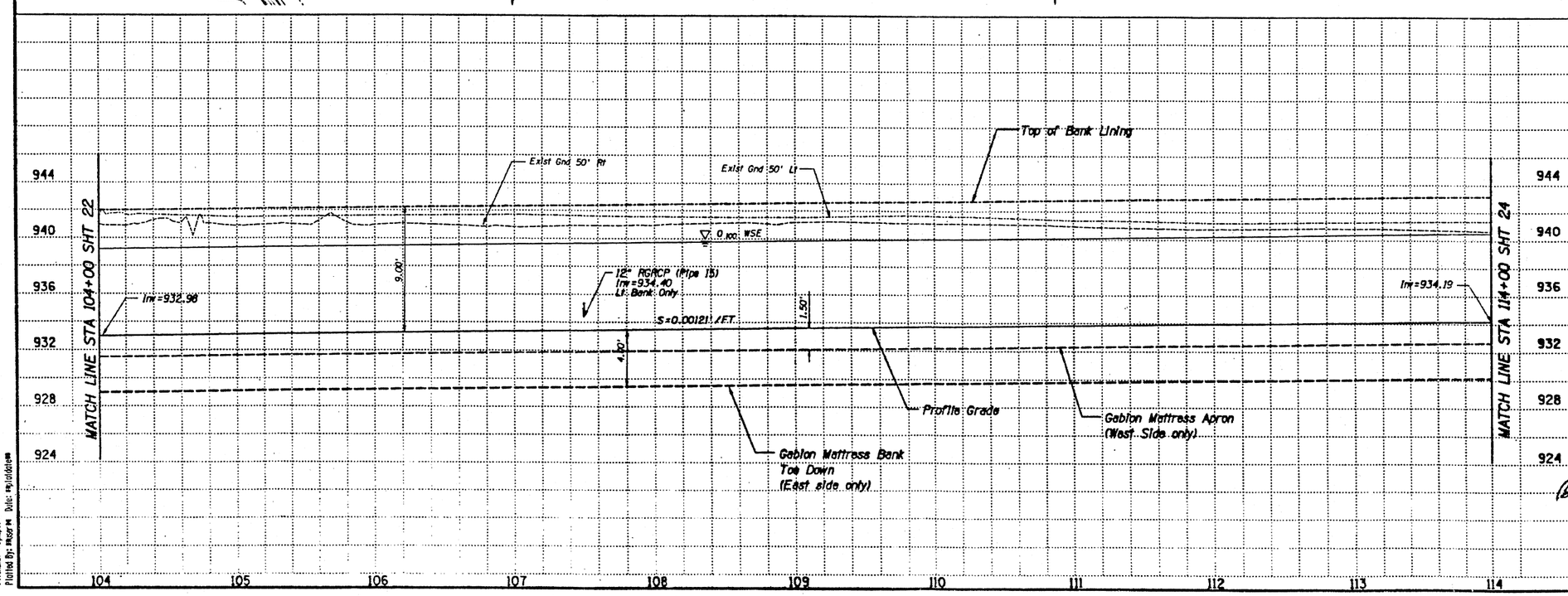

REMOVAL/RELOCATE

1. Fill & Compact Dirt Irr Ditch See Sheet 5

CONSTRUCTION

1. New Shallow CLD, 71 LF See F6/11
2. New 100' Channel (Left Bank) Transition Sideslope Varies from 3:1 to 2:1, Sta 110+00 to 111+00 Varies from 2:1 to 3:1, Sta 112+00 to 113+00
3. New Chain Link Fence 1000 LF per MAG Std Dtl 160 See 7c/55
4. New Graded V-Ditch 991 LF F2/11
5. New 14' Graded Wide Farm Road 991 LF, See H3/12
6. New 4-Wire Fence 1000 LF, See 7a/55
7. New Handrail 300 LF ℄ Lt, See Table 7b For Locations, and 7b/55 9/57
8. New Slope Blanket Gabions, 3:1SS and 2:1SS C1/9
9. 15' O & M Road 1000 LF W/4" AB
10. New Low Flow Channel 1000 LF B4/8
11. New 12" RGRCP 73 LF & Headwall in Bank Lining w/Trash Rack (MAG Std 502-1) See P15/44 25/64

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
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Sverdrup CORPORATION

PLAN AND PROFILE
STA 104+00.00 TO STA 114+00.00

SHEET 23 OF 81

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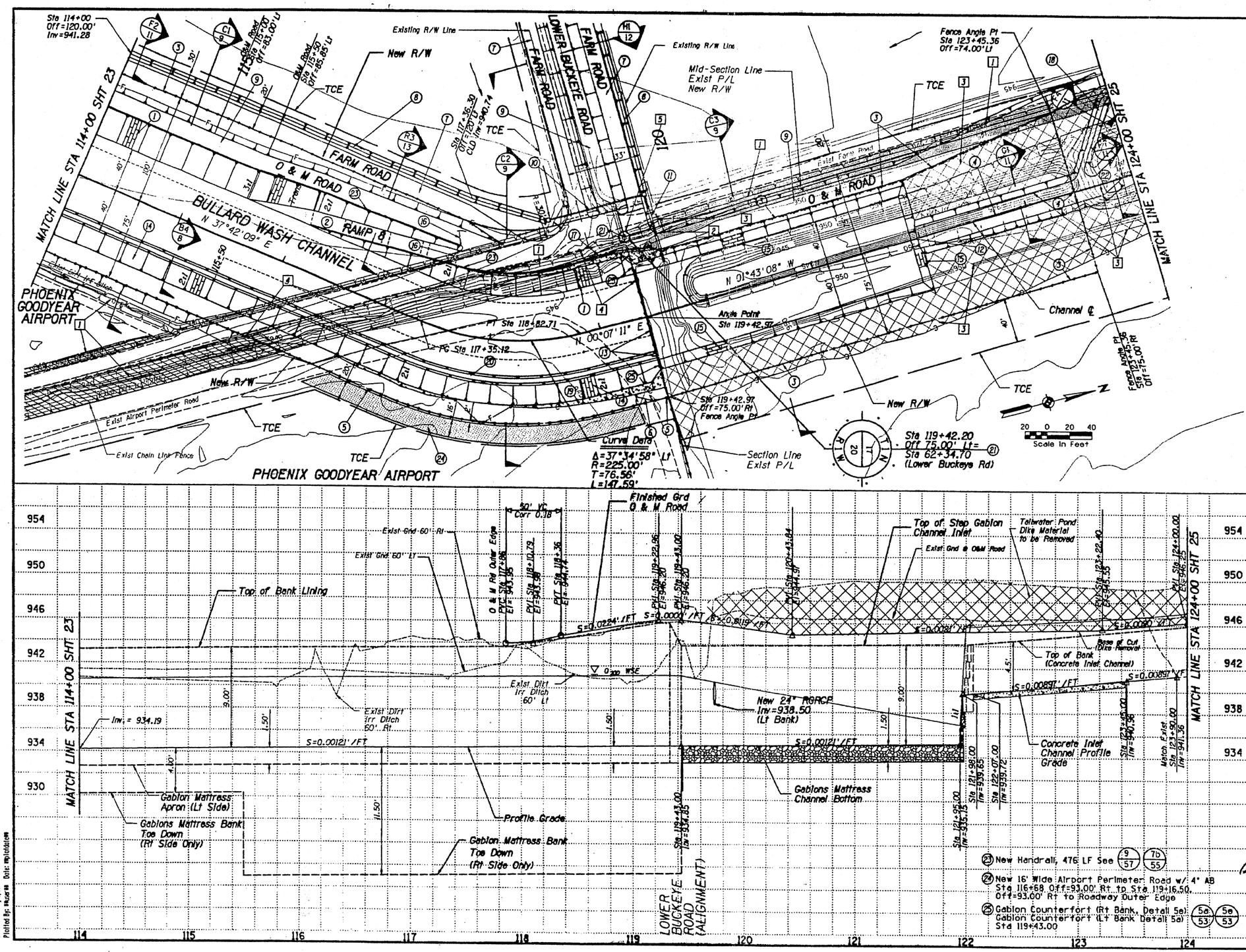

REMOVAL/RELOCATE

1. Fill and Compact Exist Dirt Irr Ditch, See Sheet 5
2. Remove Rubble, Trash, Debris; Fill and Compact See Special Provisions 2 Tons
3. Excavate and Remove Exist Pond Dikes to Base of Cut line in Profile.
4. Remove Exist Chain Link Fence, Sta 115+95, Off=75.00' Rt, Through Sta 119+43, Off=75.00 Lt to Sta 119+43, Off=75.00 Rt
5. Remove Exist 24" Irr Pipe

CONSTRUCTION

1. Gabion Mattress Bank Lining, Left Bank, See Section C1 Sta 114+00 to 115+50 Section C2 Sta 117+35 to 119+43 (C1/9) (C2/9)
2. New Maintenance Ramp, Gabion Mattress Bank Lining, Lt Bank Transition 3:1 to 2:1 SS Sta 115+50 to 116+00 2:1 SS Sta 116+00 to 117+35 (RA8/35) (R3/13)
3. New 4-Wire Fence 1365 LF, See (7a/55) See Detail for Location
4. New 20' BW Concrete Inlet Channel 138 LF (G1/11) (14/62) Sta 122+07 to Sta 123+45
5. New Chain Link Fence 545 LF Rt per MAG Std Dtl 160 Along Rt R/W Line (7c/55)
6. New 12' Wide Gate, Chain Link Fence MAG Std Dtl 160 Sta 119+29.6, Off=74.5' Rt (North Post)
7. New 14' Wide Graded Farm Road 414 LF Lt, See (H3/12)
8. New Graded V-Ditch, 475 LF @ Lt, see (F2/11)
9. New 15' O & M Road w/4" AB, 1000 LF @ Lt
10. New 12" RGRCP 90 LF & Headwall (MAG Std Dtl 502-1), See (P13/42)
11. New 24" RGRCP 62 LF & Trash Rack Headwall (MAG Std Dtl 502-1) See (P9/42) and (10a/58)
12. New Step Gabion Grade Control Structure, See (8/56) and (14/62)
13. Concrete Cutoff Wall Sta 119+42.97 (Perpendicular to Bearing South of Section Line), 86 LF and Low Flow Channel Inlet, see (15/62)
14. Gabion Mattress Bank Lining, Rt Bank 2:1 SS, Sec C1, Sta 114+00 to 115+50 Sec C2, Sta 115+50 to 119+42.97, (Extended Toedown) (C1/9) (C2/9)
15. New Step Gabion Bank Lining, Sta 119+43 to 122+07 (Both Banks and End of Channel) (C3/9)
16. New Access Gates, Sta 117+45, Off 71.7' Lt and 77.5' Lt, See (6/54)
17. New Barricade, MAG Std Dtl 130 type "B" (See Barricade Location Table 7d) 60 LF (7d/55)
18. New 4' BW Dirt Irr Ditch, 90 LF Sta 123+52, Off 10.00' Lt To Sta 124+12.00, Off 78.00' Lt, See End on Sh 25 (F4/11)
19. New Gravel Mulch, 192 SY
20. New Low Flow Channel, 543 LF, see (B4/8)
21. New Survey Monument (MAG Std Dtl 120), Type A
22. New Dirt Inlet Channel, Sta 123+45 to 123+90
23. New Handrail, 476 LF See (9/57) (7b/55)
24. New 16' Wide Airport Perimeter Road w/ 4" AB Sta 116+68 Off=93.00' Rt to Sta 119+16.50, Off=93.00' Rt to Roadway Outer Edge
25. Gabion Counterfort (Rt Bank, Detail 5e) (5a/53) (5e/53) Gabion Counterfort (Lt Bank Detail 5a) Sta 119+43.00

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

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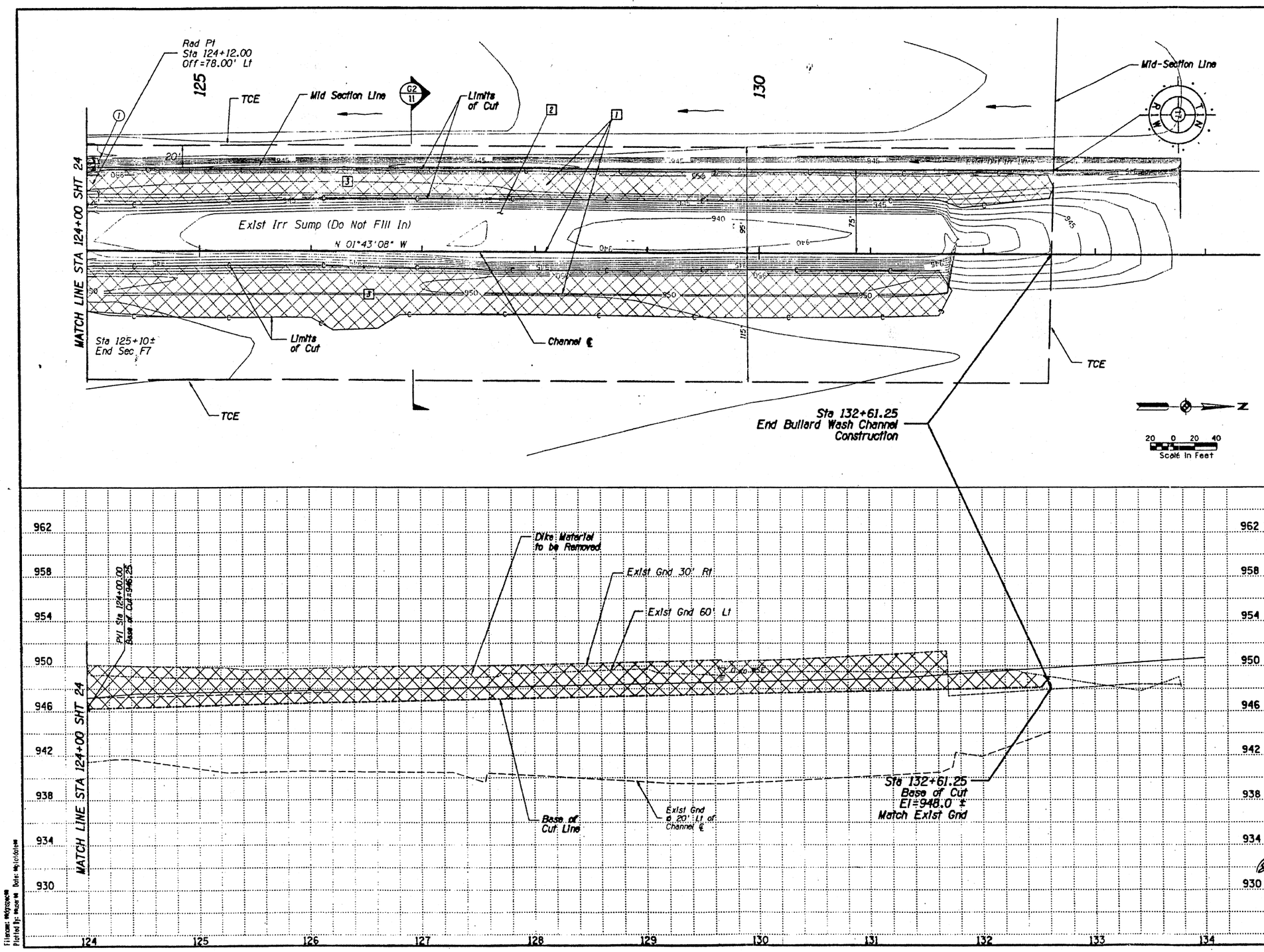
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Sverdrup CORPORATION

PLAN AND PROFILE
STA 114+00.00 TO STA 124+00.00

SHEET 24 OF 81



REMOVAL/RELOCATE

1. Excavate Exist Pond Dikes Do Not Fill In Low Area of Sump. Do Not Cause Dirt to Fall Into and/or Clog the Exist Dirt Irrigation Ditch (G2/11)
2. Clear and Grub Existing Underbrush, 3 Ac
3. Rubble & Debris Removal, 10 tons

CONSTRUCTION

1. New 4' BW Dirt Irr Ditch 7 LF End Sta 124+12, Off 78.00' Lt, See (F4/11)

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

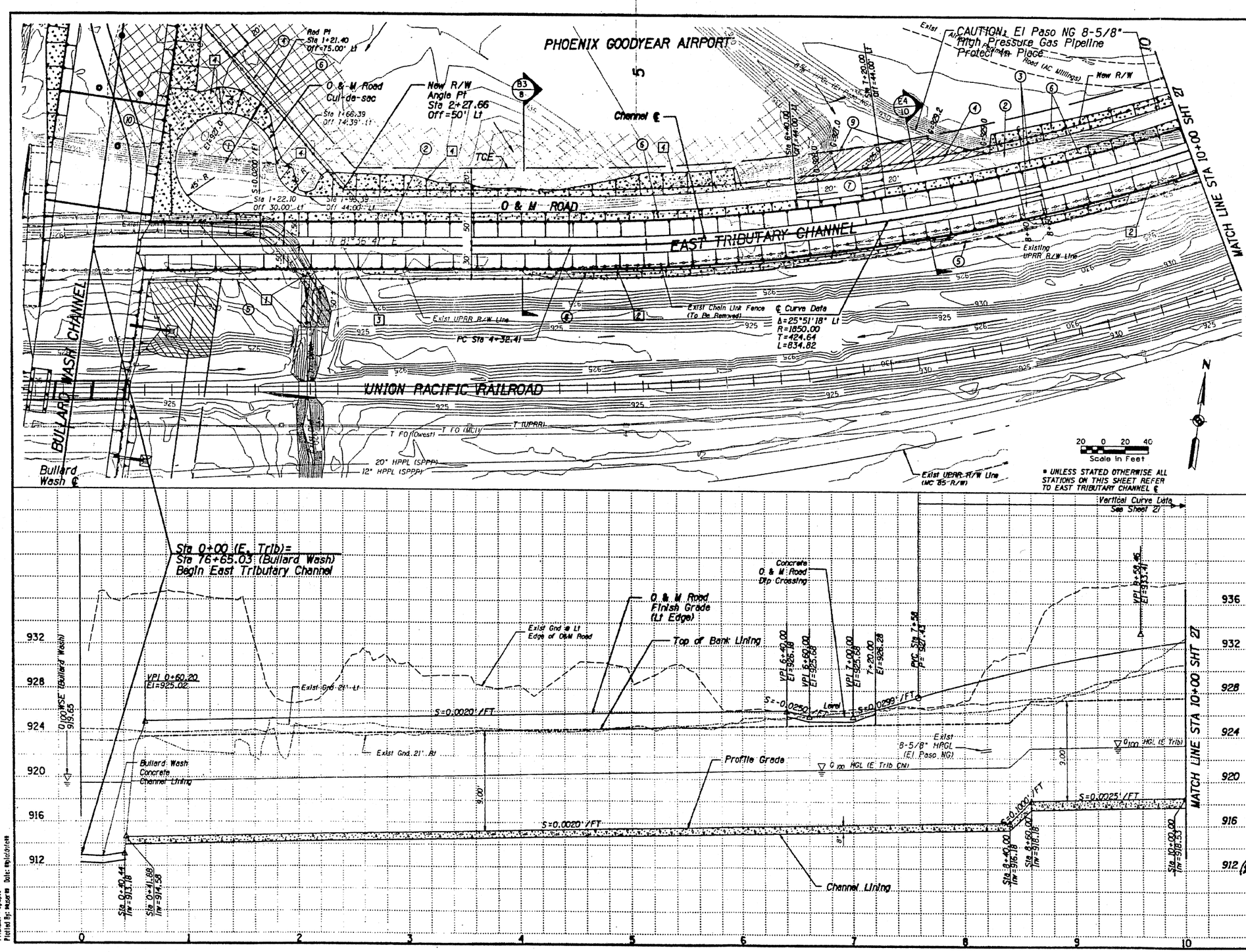
Bradford D. Olbert
13955 BRADFORD D. OLBERT
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
ARIZONA, U.S.A.

Sverdrup
CORPORATION

PLAN AND PROFILE
STA 124+00.00 TO STA 134+00.00

SHEET 25 OF 81

Filename: mkprpw08
Plotted By: mwaters Date: 9/9/1998



☐ REMOVAL/RELOCATE ☐

1. Fill In and Compact Exist Dirt Irr Ditch, See Sht 5
2. Remove Existing Chain Link Fence Sta 0+45 to 10+00 Rt, (E. Trib Channel) (955 LF This Sheet)
3. Clear and Grub Exist Underbrush (N.P.I.)
4. Remove Buried Construction Materials. 1360 Tons See Special Provisions

○ CONSTRUCTION ○

1. New 45' Radius Cul-de-sac w/ 4" AB
2. 14' O & M Road w/ 4" AB, 800 LF
3. New Concrete Grade Control Structure, Maintain 9.0' High, 1.5:1 SS Banks, Earth Sideslope Above Bank Varies
4. New Chain Link Fence, 964 LF @ Lt R/W Line (MAG Std Det 160), See Table 7c For Locations (7c/55)
5. New 4-Wire Fence, 954 LF @ Rt, on P/L See Table 7a For Locations (7a/55) (16/63)
6. New Gravel Mulch, 2426 SY
7. New Concrete O & M Road Dip Crossing Sta 6+40.00 Off=44.00' Lt to Sta 7+20.00, Off=44.00' Lt, 196 SY (E4/10)
8. New Concrete Channel Lining, 15' Bottom Width (East Tributary Channel) (B3/8)
9. Grade Area Between TCE and Bank Lining to Drain Into Concrete O&M Road Dip Crossing
10. New Barricade 80 LF @ Lt (MAG Std Det 130, Type "B" See (7d/55)

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

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	BY	DATE
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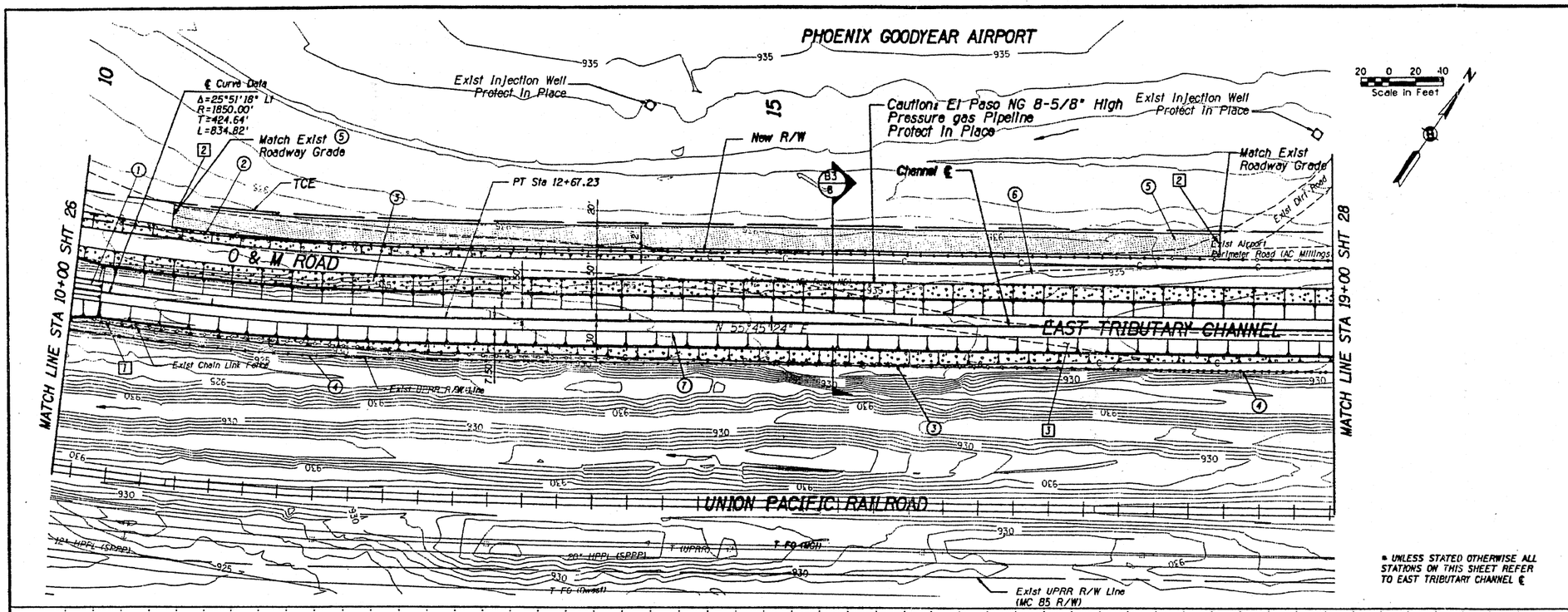
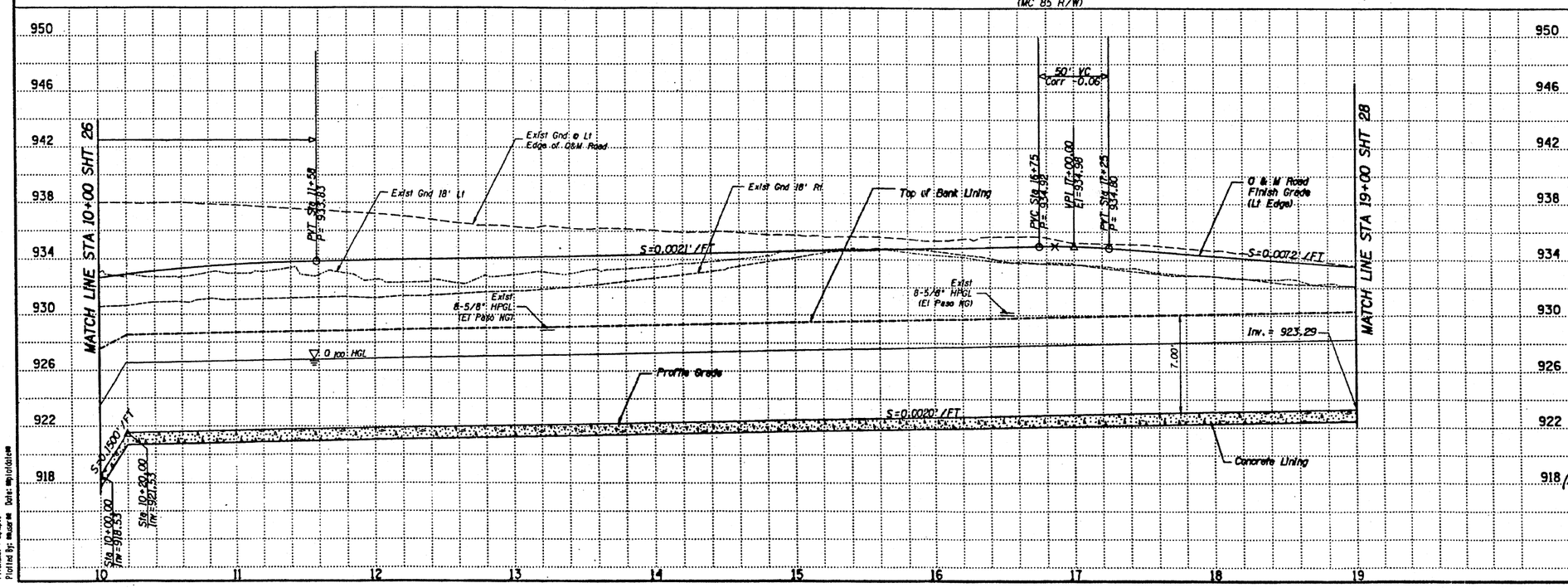
Sverdrup CORPORATION

PLAN AND PROFILE (EAST TRIBUTARY)
STA 0+00.00 TO STA 10+00.00

SHEET OF 26 - 81





REMOVAL/RELOCATE

1. Remove Existing Chain Link Fence, 900 LF Sta 10+00 Rt to 19+00 Rt.
2. Remove 14' Wide Existing Airport Perimeter Road; Sta 10+65 to 18+20, approx 60' Lt
3. Clear and Grub Existing Underbrush (N.P.I.)

CONSTRUCTION

1. New Concrete Grade Control Structure, Transition Bank Height from 9.0' to 7.0' and maintain 1.5:1 sideslopes. Sideslopes Above Bank Lining Vary
2. New Chain Link Fence, 900 LF @ Lt R/W Line, (MAG Std Det 160), See Table 7c For Locations (7c/55)
3. New Gravel Mulch, 2850 SY
4. New 4-Wire Fence, 900 LF @ Rt, Sta 10+00 to 19+00 See Table 7a For Locations, and see (16/63) (7a/55)
5. New 4" AB, 16' Wide Airport Perimeter Road Sta 10+65 to 18+20, Off 68.00" Lt (E Trib ℄ to Road Outer Edge)
6. 14' O & M Road w/ 4" AB, 900 LF @ Lt
7. New Concrete channel lining 15' Bottom Width, 7.0' Blank Height with 1.5:1 Sideslopes

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

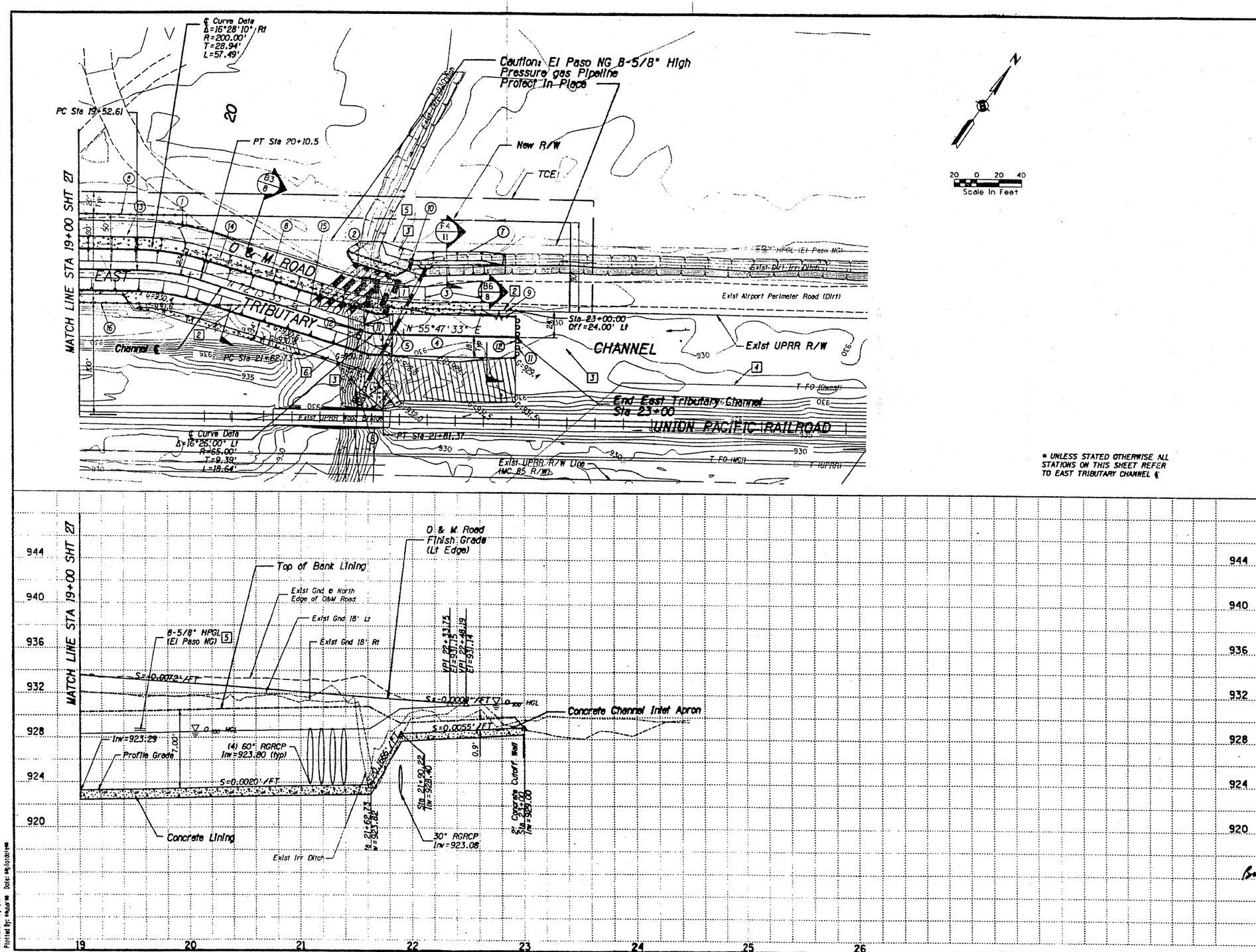
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD B. OLBERT ARIZONA U.S.A.

Sverdrup CORPORATION

PLAN AND PROFILE (EAST TRIBUTARY)
STA 10+00.00 TO STA 19+00.00

SHEET 27 OF 81



REMOVAL/RELOCATE

1. Remove Exist 60" Steel Pipe 27 LF x 5 ea (Lump Sum)
2. Remove Exist Chain Link Fence Sta 19+00 ℄ Rt to Sta 23+50 ℄ Lt, 400 LF
3. Clear and Grub, 0.6 Ac
4. Exist Tel-FO Cable (Protect In Place)
5. Exist 8-5/8" High Pressure Gas Line Protect In Place (El Paso NG)
6. Rubble & Debris Removal, 10 Tons

CONSTRUCTION

1. New 12' Wide (Single) Access Gate, Chain Link Fence (MAG Std Det 160) Sta 19+90, 30.7' Lt
2. New (4) 60" RGRCP x 58 LF (232 LF) ℄ Lt and Inlet & Outlet Headwalls Detail 13 & 22 (P11/43)
3. 50' Roadway Transition, Match Exist Airport Perimeter Road, Sta 22+19.06, Off=44.66' Lt to Sta 22+69.05, Off=49.64'
4. New Concrete Channel Inlet Apron, See (B6/8)
5. New 30" RGRCP 122 LF with Outlet End Section w/ Drop Inlet Headwall (MAG Std Det 501-5) (P10/43)
6. New Dumped Riprap Outlet Protection, 4 CY (11/12) (P10/43)
7. New 4' BW Dirt Irr Ditch, 83 LF, see Sta 22+07.25, Off 66.00' Lt to Sta 22+90.00, Off 66.00' Lt; See (F4/11) (P10/43)
8. New Chain Link Fence 422 LF ℄ Lt, (MAG Std Det 160), See Table 7c For Locations (7c/55)
9. New 24' Wide (Double 12') Access Gate, Chain Link Fence (MAG Std Det 160) East Pole at Sta 23+00, Off=24.00' Lt
10. New Gabion Basket Wire, 12 LF Sta 22+03.44, Off=56.97' Rt to Sta 22+06.84, Off=68.48' Rt (13c/61)
11. New Safety Posts (Fixed) (7 ea) at Sta 23+00 Off 3' Lt, 9' Lt, 15' Lt, 9' Rt, and 15' Rt and Sta 21+60, Off 0' Lt and 6' Lt.
12. New Removeable Safety Post, 2 ea at Sta 23+00, Off 3' Rt and Sta 21+60, Off 6' Rt; see (17/63)
13. 15' O & M Road w/ 4" AB; 370 LF ℄ Lt
14. New Gravel Mulch, 233 SY
15. New Concrete Channel Lining 15' Bottom Width (East of Tributary Channel) (B3/8)
16. New 4-Wire Fence, 50 LF ℄ Rt Sta 19+00 to Sta 19+50, see Table 7a for Locations (7a/55) (16/63)

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

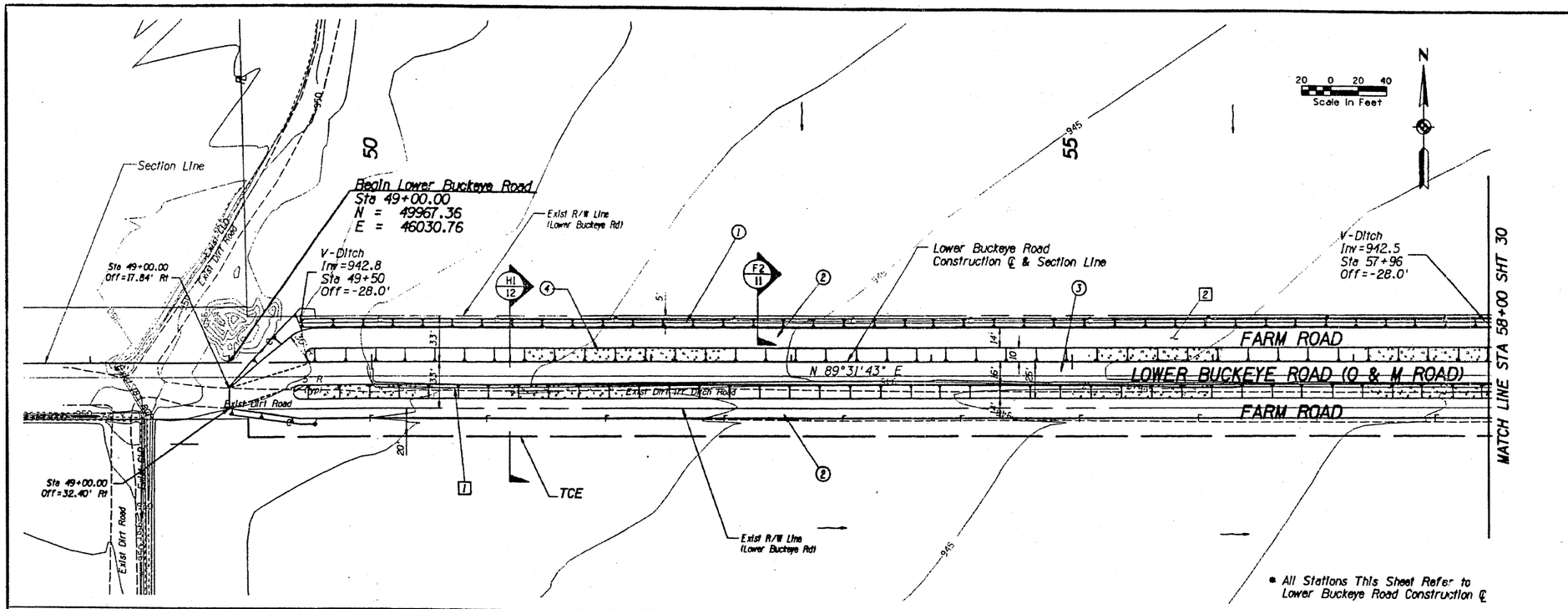
13955 BRADFORD D. OLBERT REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

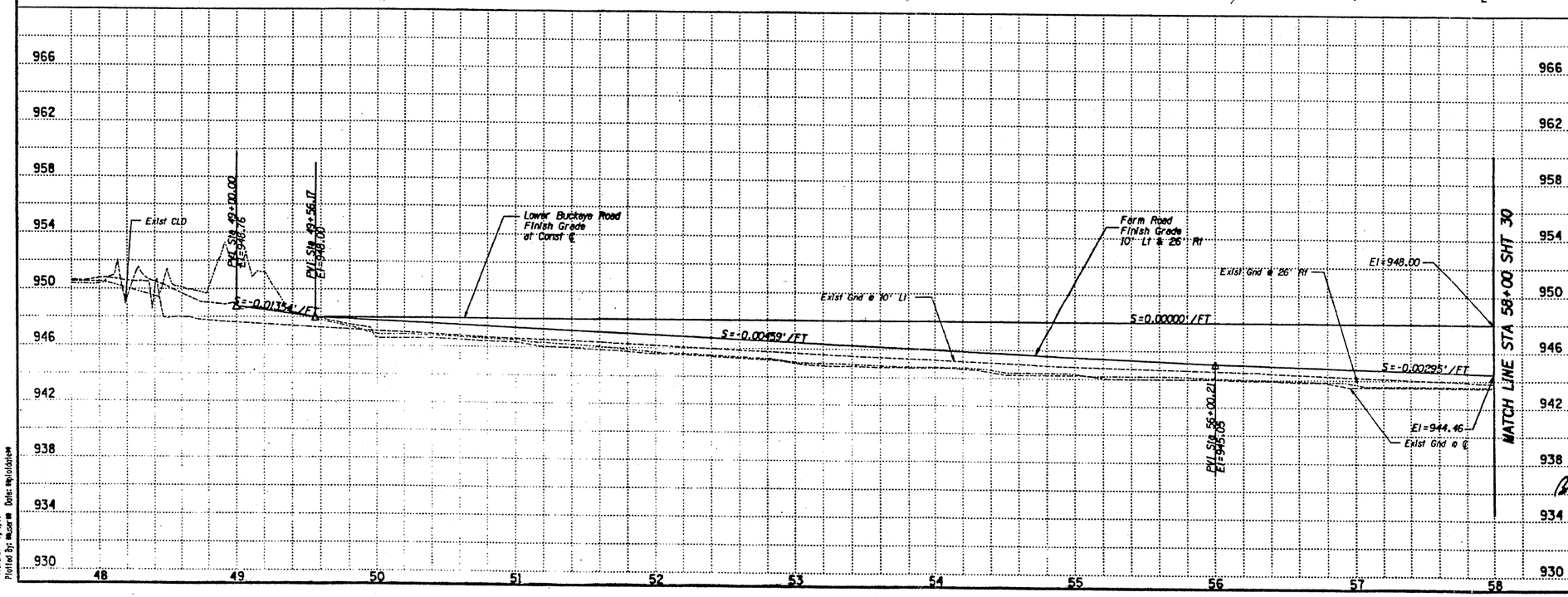
Sverdrup CORPORATION

PLAN AND PROFILE (EAST TRIBUTARY) STA 20+00.00 TO STA 23+00.00

SHEET 28 OF 81

Filename: 4700pp28
Plotted By: edgar Date: 9/10/1998





REMOVAL/RELOCATE

1. FW In and Compact Exist Dirt Irr Ditch See Sht 5
2. Clear and Grub Crops (NPI)

CONSTRUCTION

1. New Graded V-Ditch, 850 LF @ Lt; See F2/11
2. New 14' Graded Farm Road 900 LF @ Lt and 900 LF @ Rt, See H1/12
3. 16' O & M Road 900 LF w/4" AB See H1/12
4. New Gravel Mulch, 1040 SY

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
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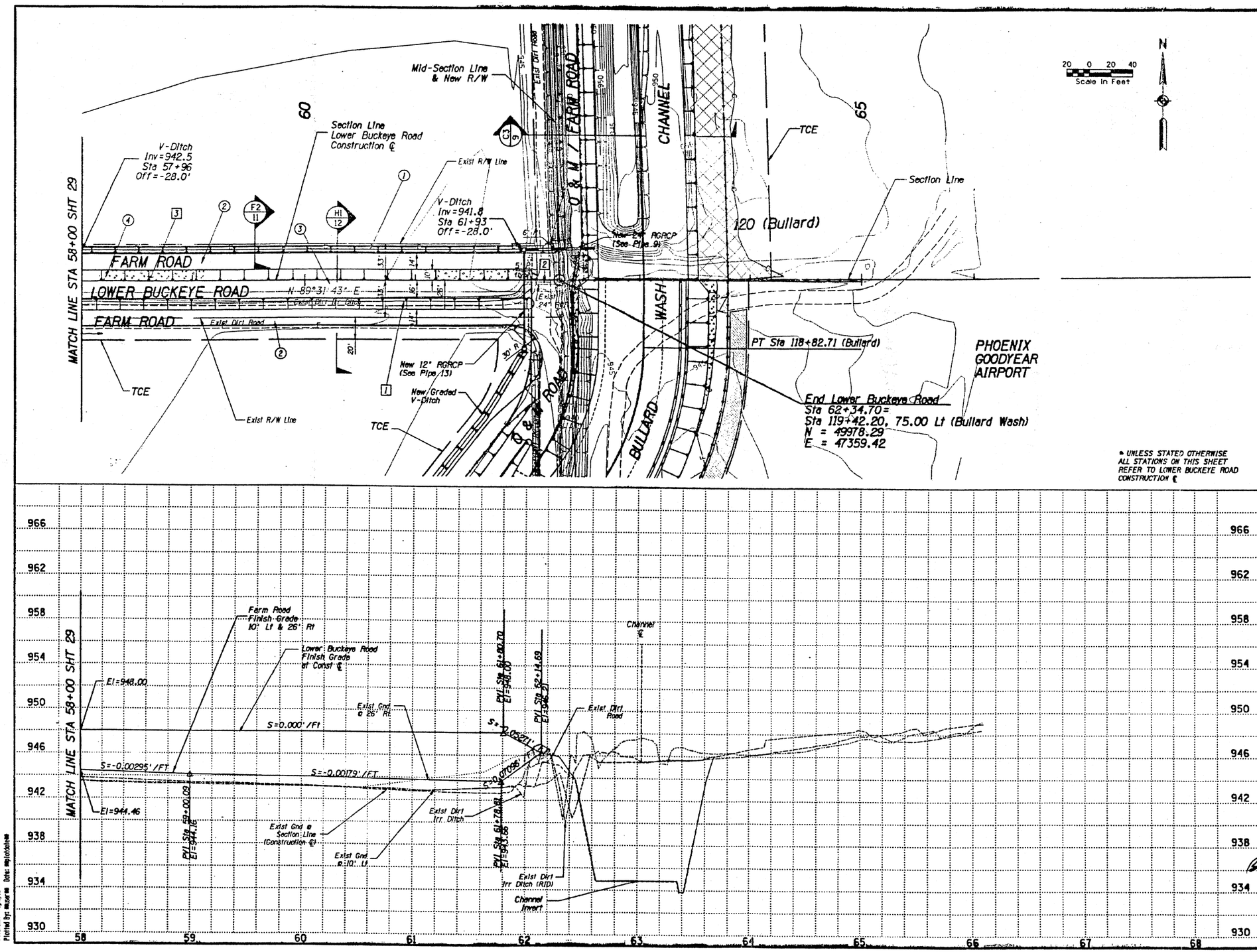
Bradford D. Olbert
13955 BRADFORD D. OLBERT ARIZONA, U.S.A.

Sverdrup CORPORATION

PLAN AND PROFILE LOWER BUCKEYE ROAD
STA 48+00.00 TO STA 58+00.00

SHEET 29 OF 81

Filename: H4grpage.dgn
Plotted by: Mcuser.dgn Date: 8/31/1998



REMOVAL/RELOCATE

1. FIM In and Compact Exist Dirt Irr Ditch
2. Remove Exist 24" RCP, 32 LF
3. Clear and Grub Crops (NPI)

CONSTRUCTION

1. New Graded V-Ditch 393 LF, see F2/11
2. New 14' Graded Farm Road 400 LF Lt & 400 LF Rt, See H1/12
3. 16' O & M Road 400 LF w/ 4" AB, See H1/12
4. New Gravel Mulch, 490 SY

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

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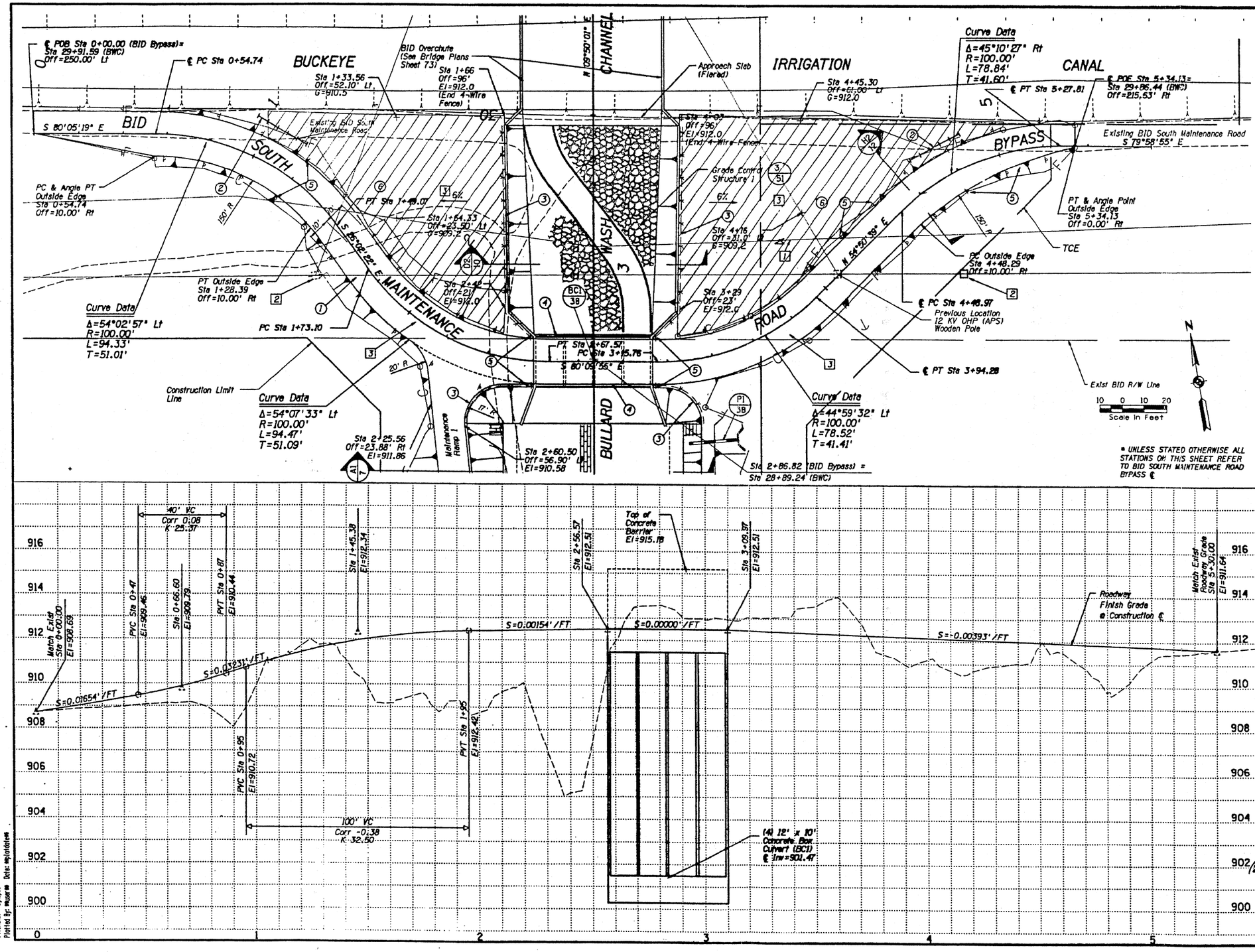
CHECKED	R. MILES/B. OLBERT	8/25/98

Sverdrup CORPORATION

PLAN AND PROFILE LOWER BUCKEYE ROAD STA 58+00.00 TO STA 62+28.70

SHEET 30 OF 81

Filename: mdgrpage
Plotted By: Mauer Date: mp/date/time



REMOVAL/RELOCATE

1. Remove Abandoned 2-1/2" Buried Gas Line (SW Gas)(Caution: Pipe May Contain Residual Gas)
2. Relocated 12 KV OHP and Wooden PP (by APS) (Protect In Place)
3. Clear and Grub Existing Underbrush

CONSTRUCTION

1. 20' Wide, Bypass Road (Graded Dirt), 481 LF
2. New Barricade, MAG Std Det 130, Type "B" 2 each x 25 LF (50 LF @ Lt), See Table 7d For Locations (Bullard Wash Sta/Off) (7d/55)
3. New 4-Wire Fence; see (16/63) (7a/55) Sht 15 for Quantity See Table 7a For Locations.
4. New Concrete Half Barrier, Cast In Place, (ADOT Std Det C-10.64, Sec A-A) Sta 2+56.77 to Sta 3+09.77 Off=11.67' Rt, Off 12.33' Lt (To back of Barrier) 53 LF @ Lt and 53 LF @ Rt
5. Delineators, Double Yellow, High Reflective Sheeting, 4'-0" High Posts @ 25 Ft Intervals, 11' Lt & 11' Rt, ADOT Std 4-M-4.01 (Reflectors Aimed at Traffic) (47 Ea) and At Each End of Concrete Barriers at BCI; (Reflectors Aimed Outward From Barrier)
6. Grade Infield Area per Spot Elevations

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

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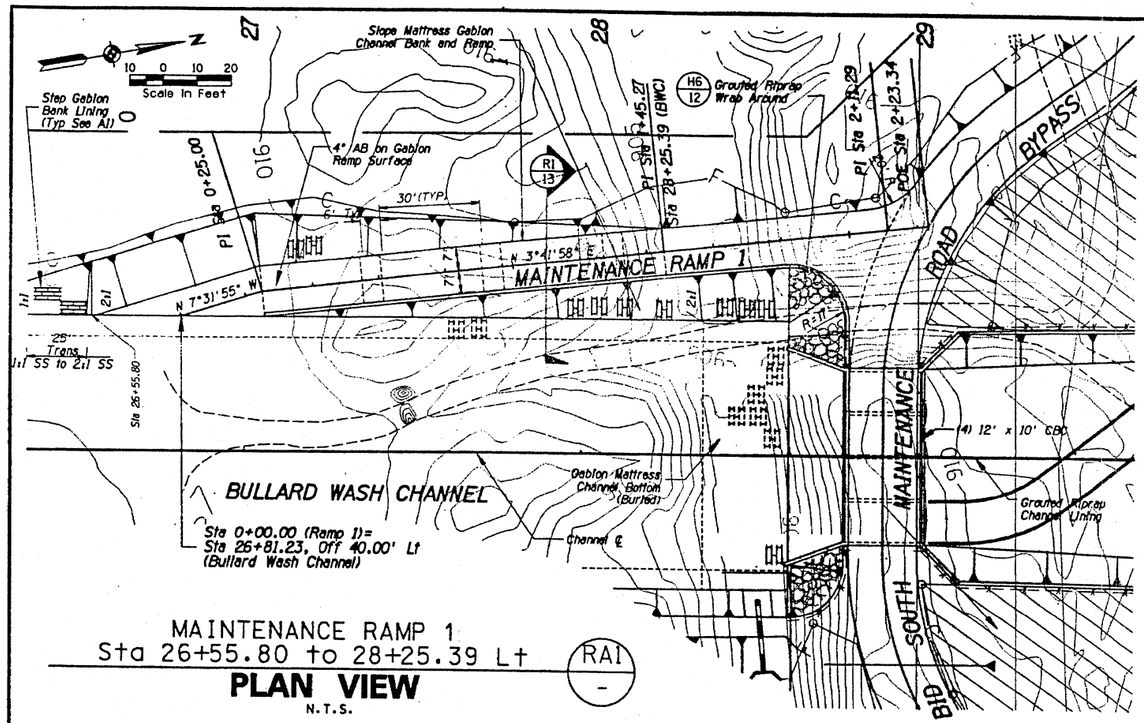
Sverdrup CORPORATION

PLAN AND PROFILE
BID SOUTH MAINTENANCE ROAD BYPASS

SHEET 31 OF 81

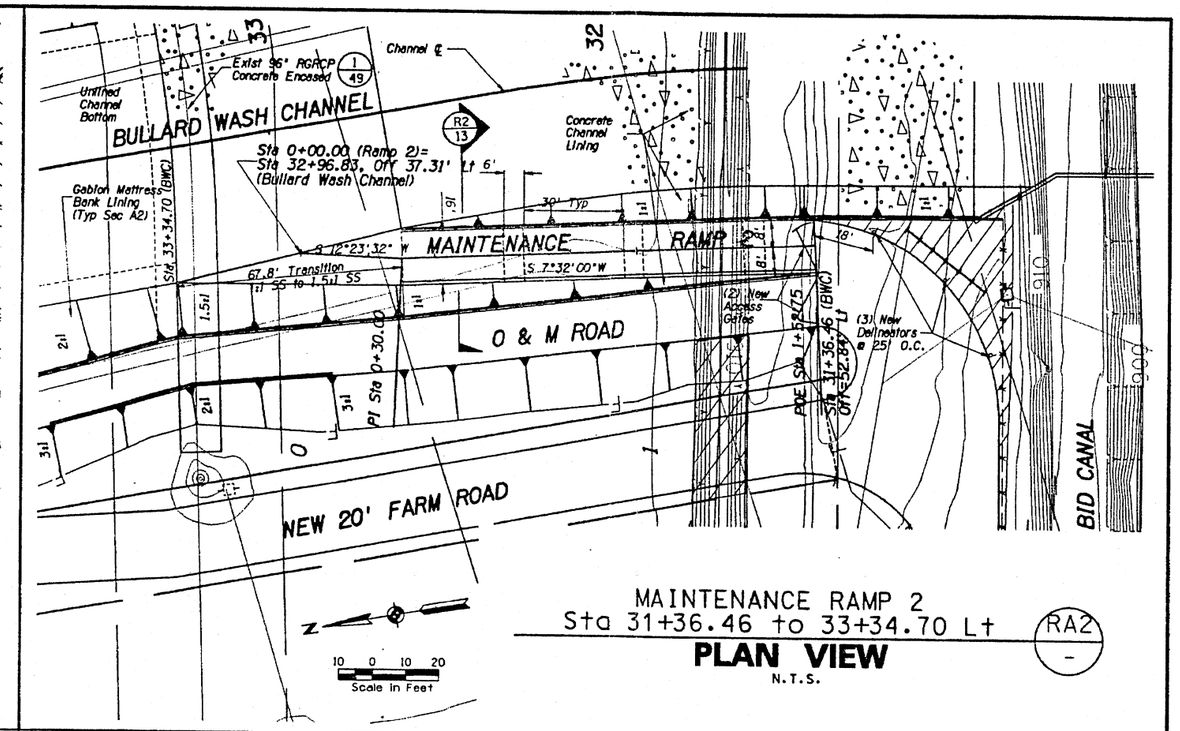


MAINTENANCE RAMP 1
Sta 26+55.80 to 28+25.39 Lt

RA1

PLAN VIEW

N.T.S.



MAINTENANCE RAMP 2
Sta 31+36.46 to 33+34.70 Lt

RA2

PLAN VIEW

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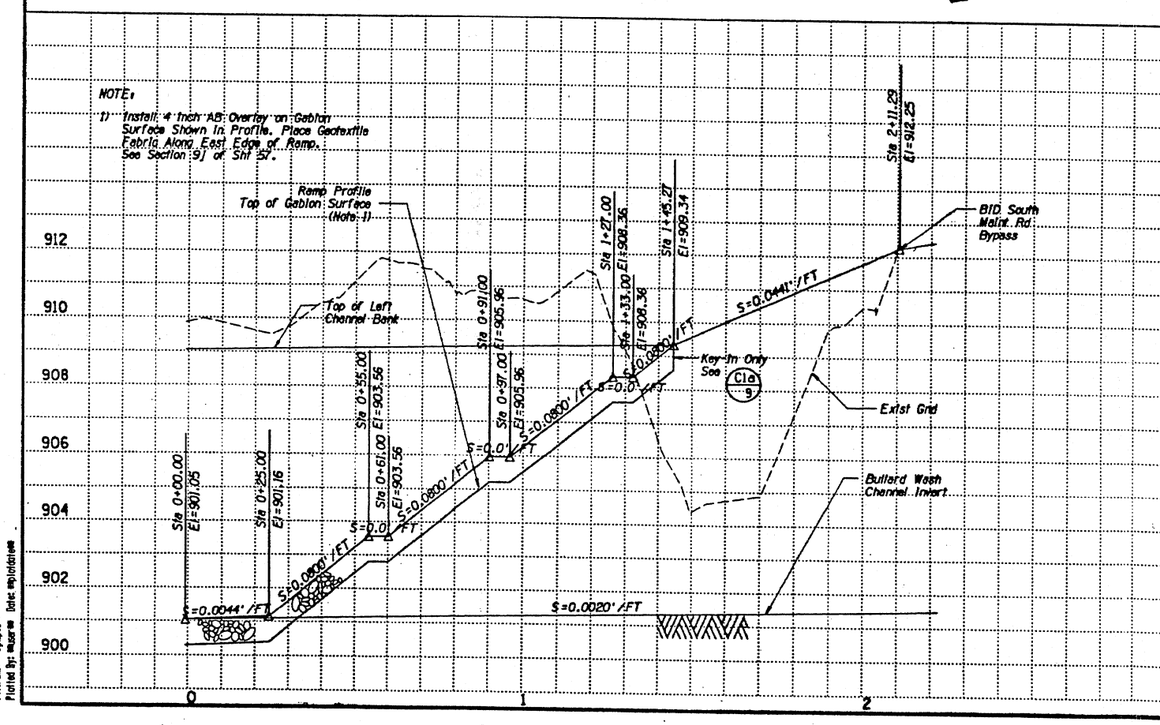

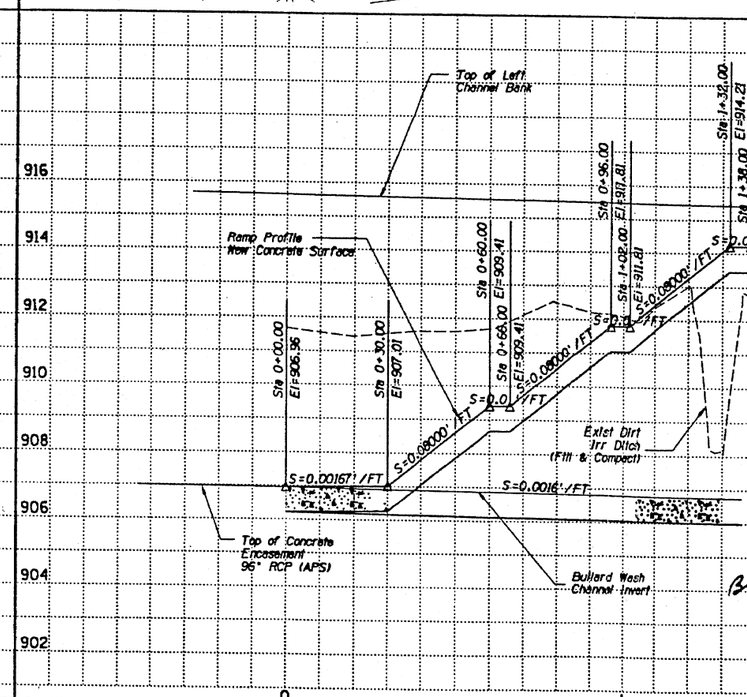

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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

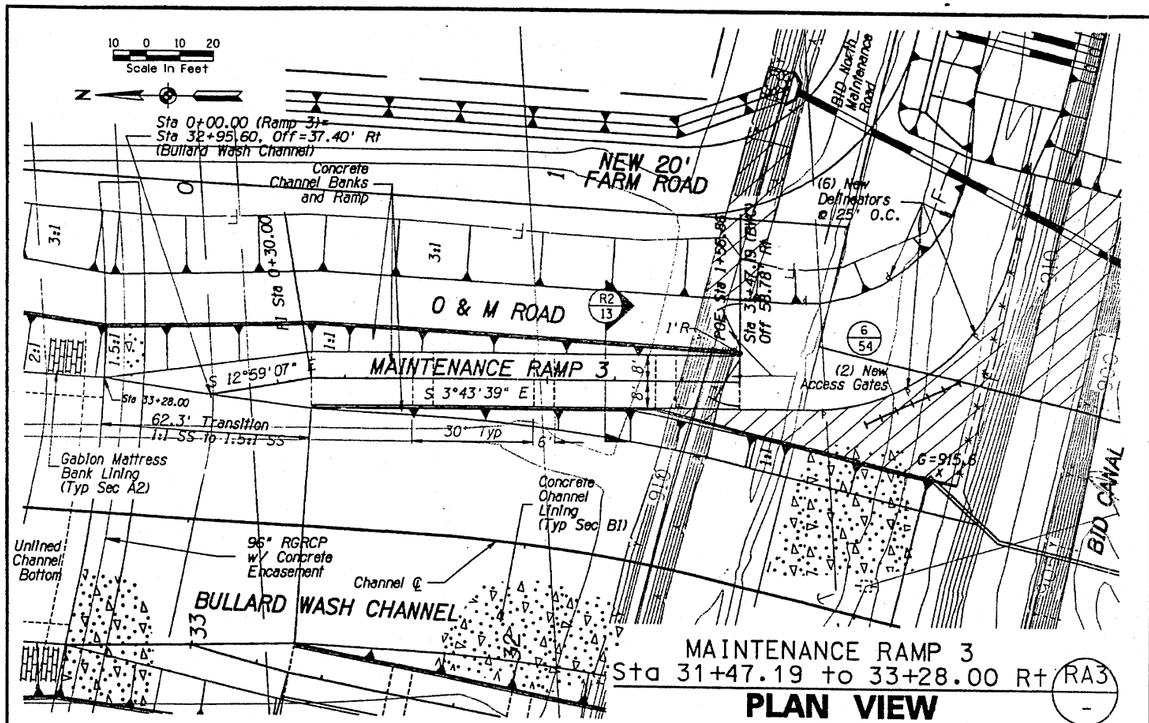
13955 BRADFORD D. OLBERT

Sverdrup
CORPORATION

DETAIL SHEET
MAINTENANCE RAMP 1 & 2

SHEET 32 OF 81

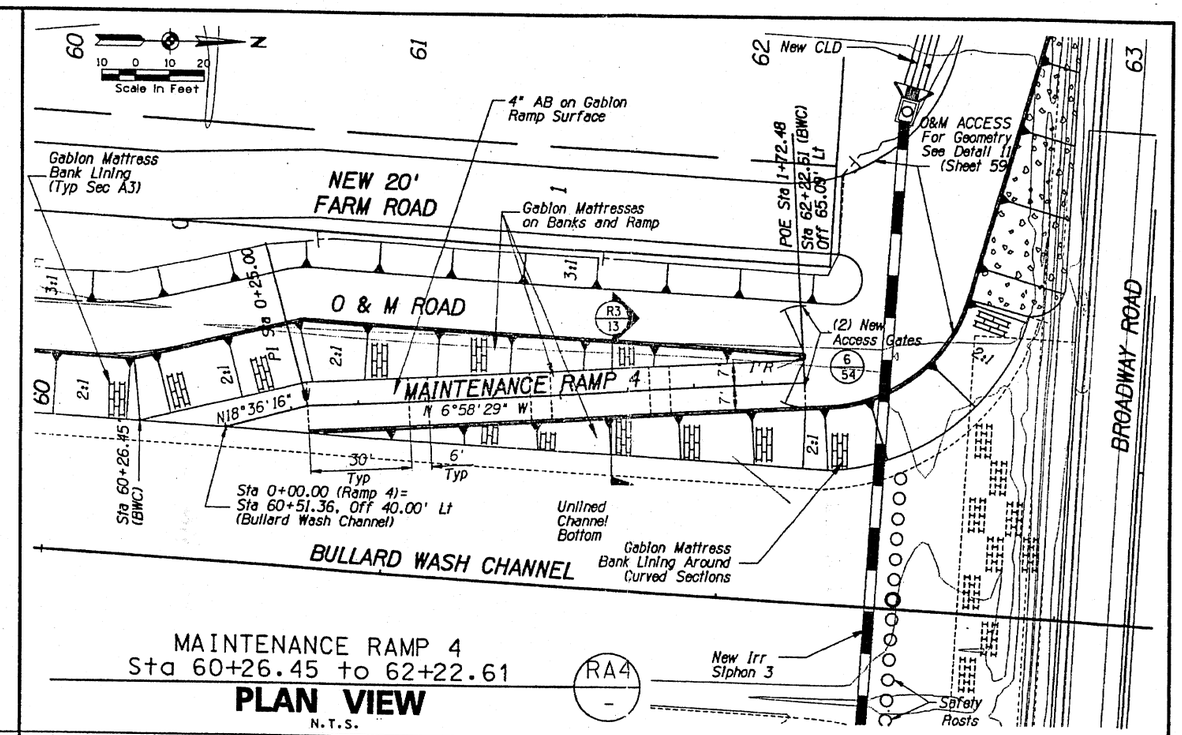
Filename: M32pg2a.dgn
Plotted By: mcarew Date: mp/ctd/dave



MAINTENANCE RAMP 3
Sta 31+47.19 to 33+28.00 Rt (RA3)

PLAN VIEW

N.T.S.



MAINTENANCE RAMP 4
Sta 60+26.45 to 62+22.61 (RA4)

PLAN VIEW

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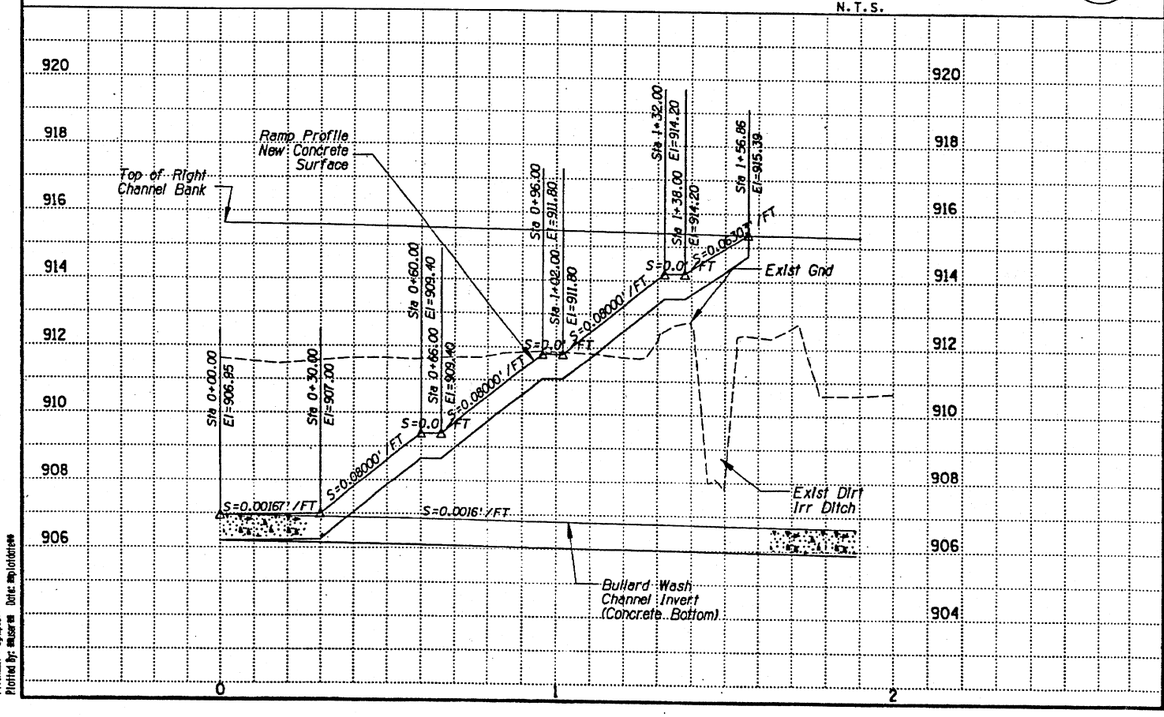

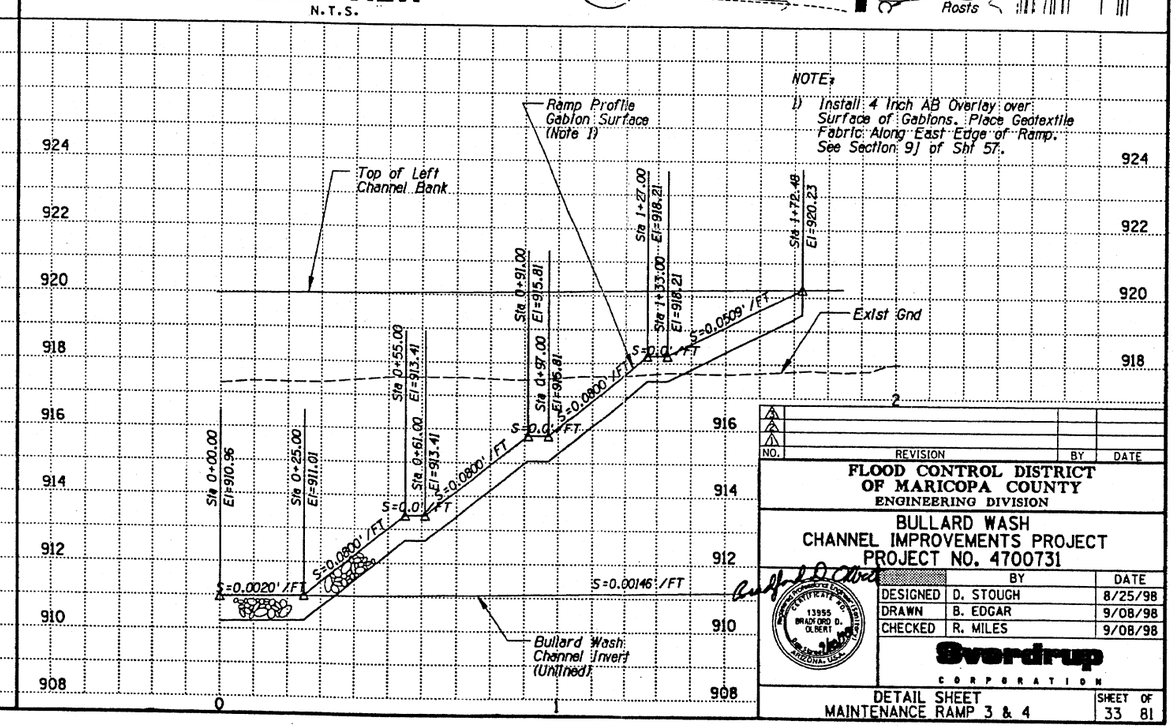

NOTE:

1) Install 4 Inch AB Overlay over Surface of Gabions. Place Geotextile Fabric Along East Edge of Ramp. See Section 9J of Sht 57.

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
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	BY	DATE
DESIGNED	D. STOUGH	8/25/98
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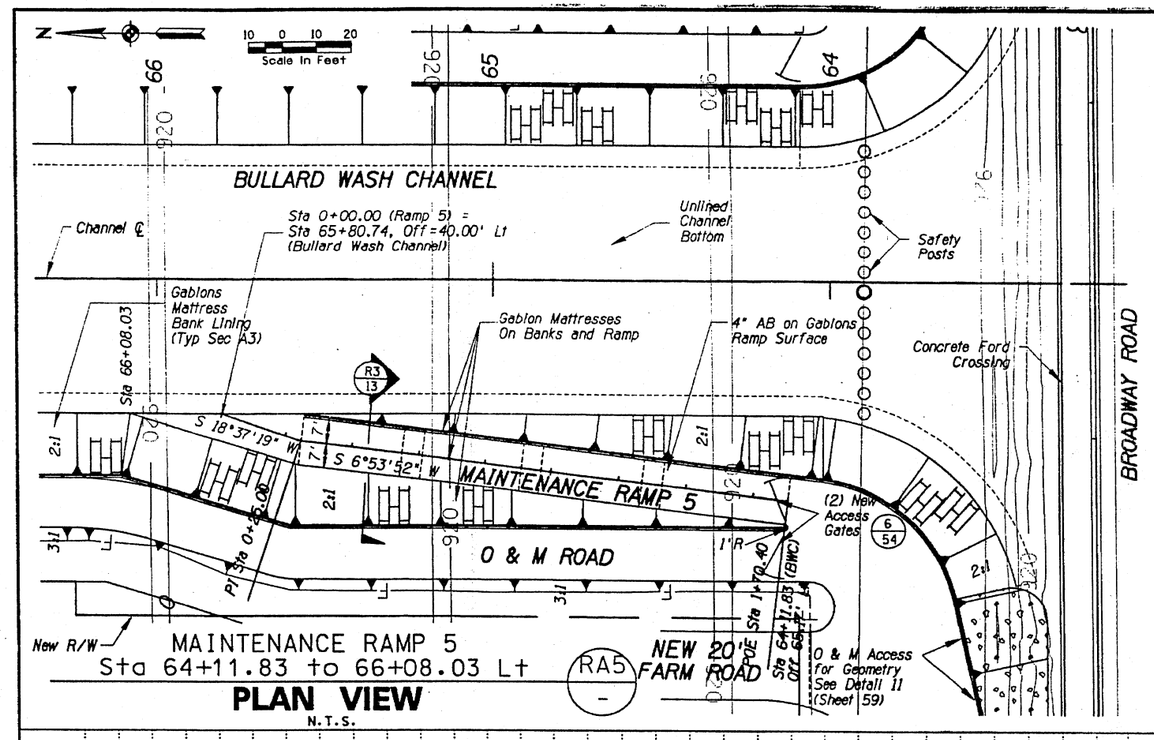
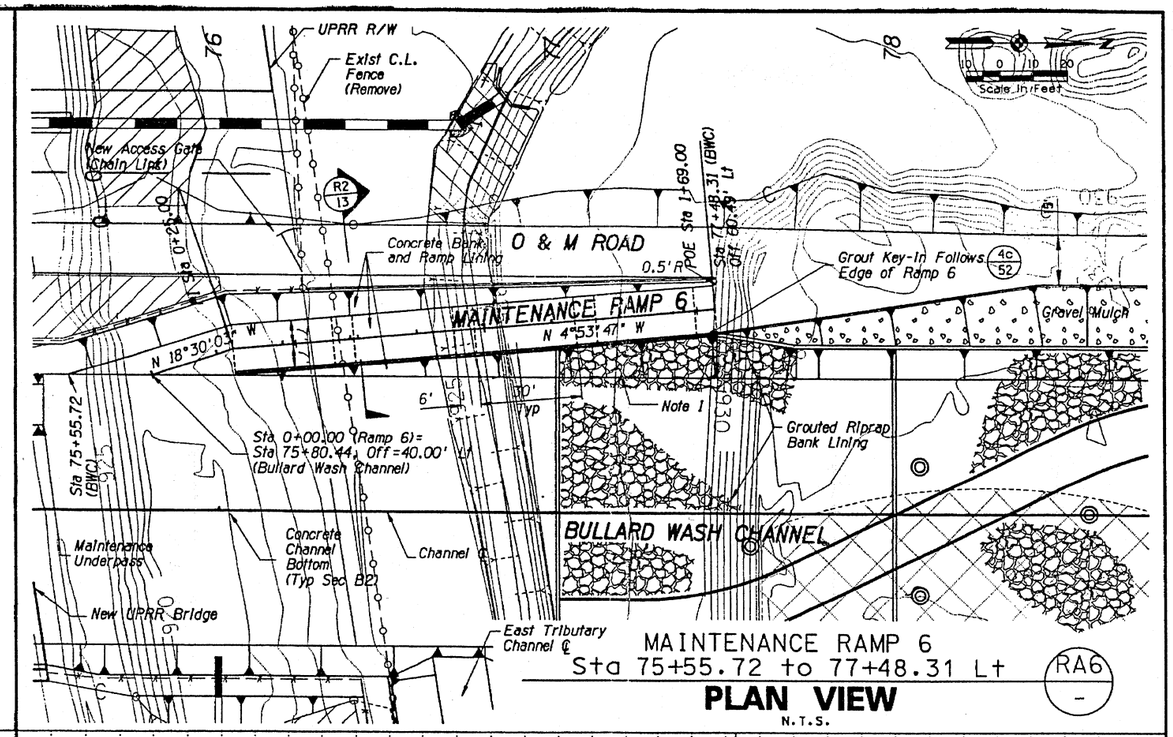
CHECKED	R. MILES	9/08/98

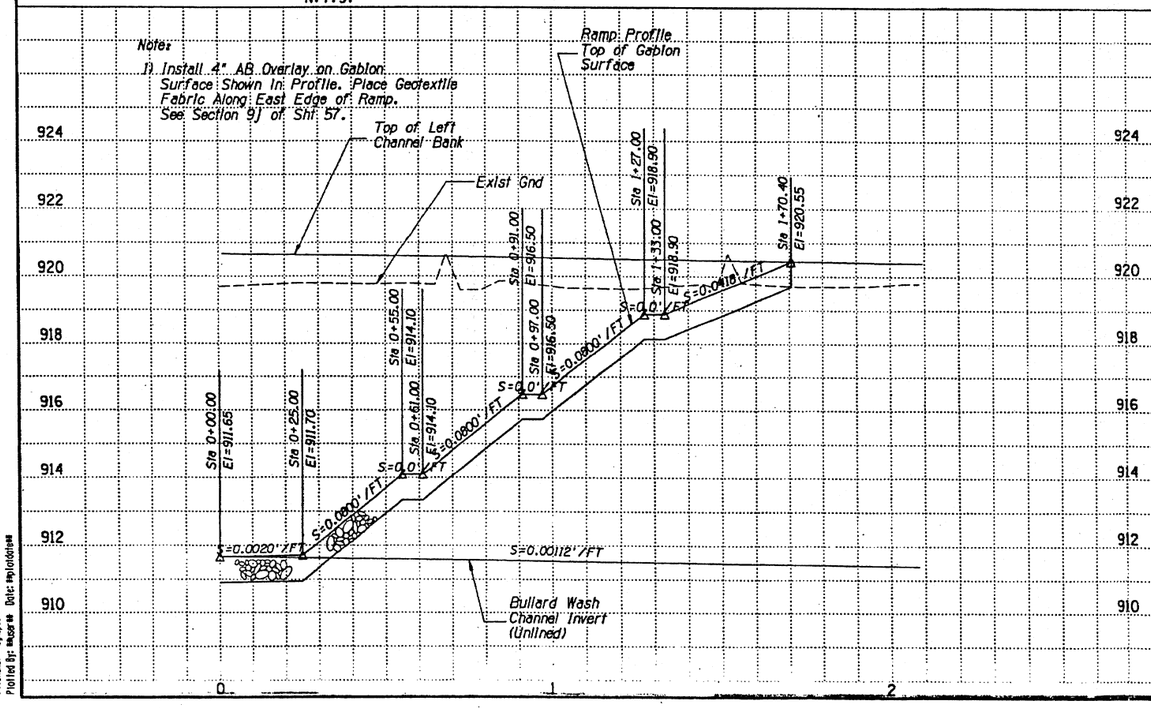
Sverdrup CORPORATION

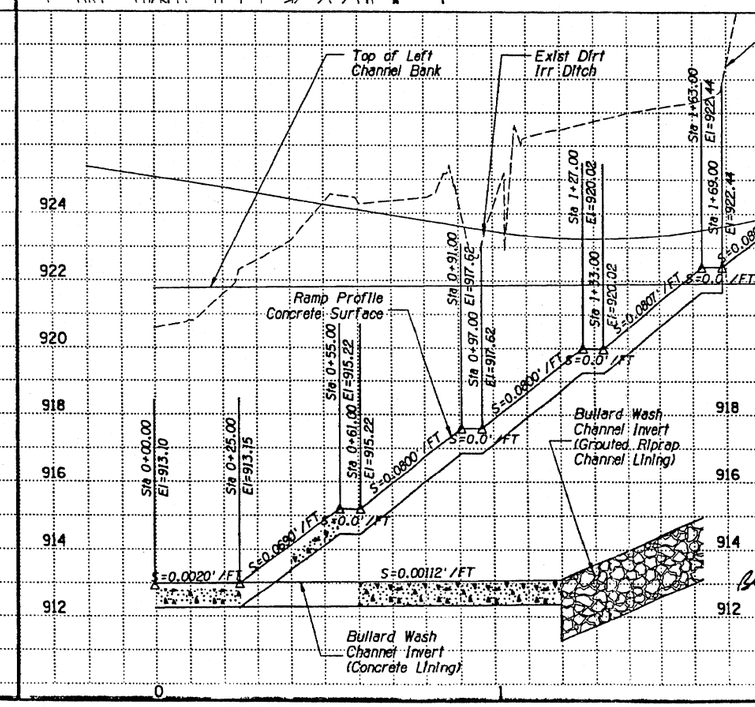
DETAIL SHEET
MAINTENANCE RAMP 3 & 4

SHEET 33 OF 81









Note 1 - Grouted riprap sideslope varies from 1:1 to 1.5:1, Sta 77+00 to 77+71.64

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
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	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES	9/08/98

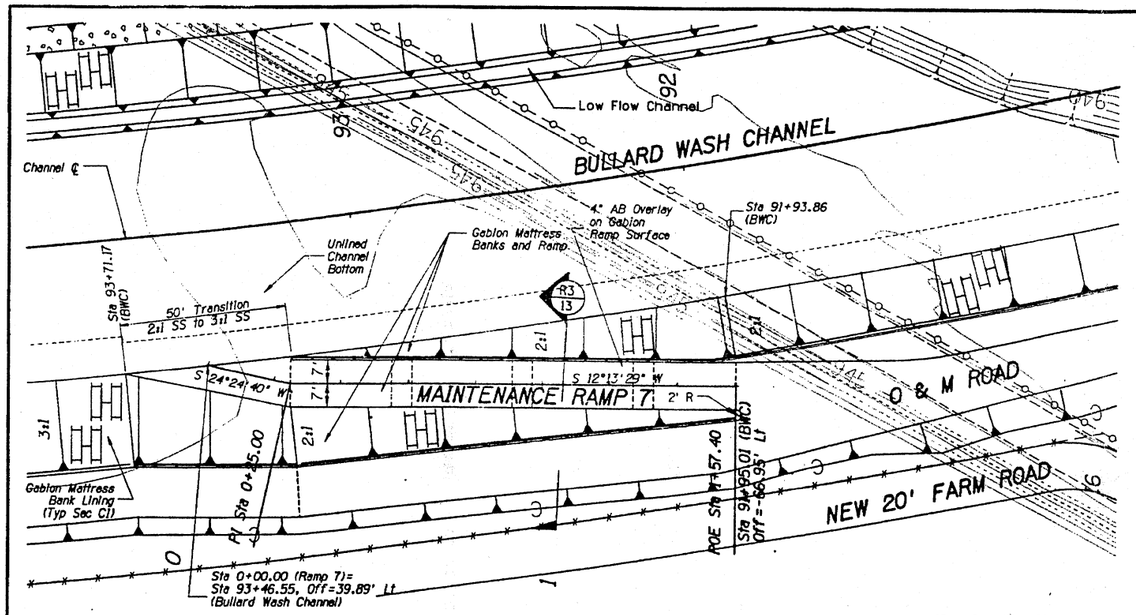
REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD D. OLBERT ARIZONA U.S.A.

Sverdrup
CORPORATION

DETAIL SHEET
MAINTENANCE RAMP 5 & 6

SHEET 34 OF 81

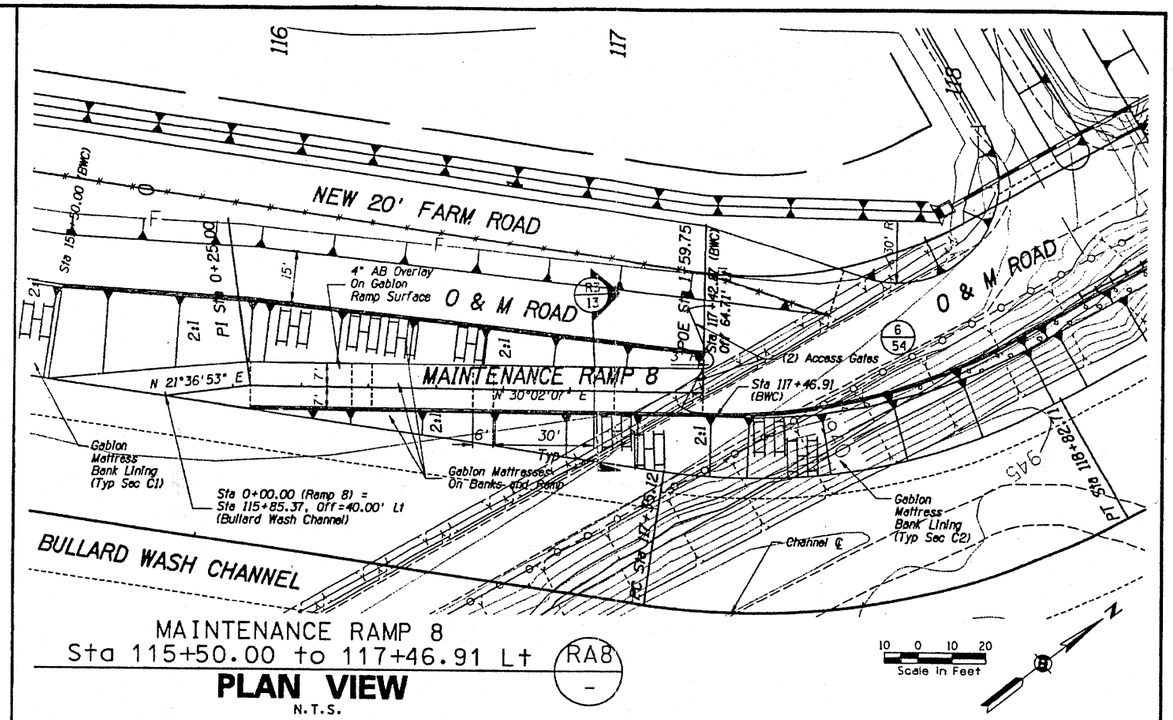
Filename: mdrpsec4e
Plotted By: bedgar Date: mp/dd/dd/ss



MAINTENANCE RAMP 7
Sta 91+93.86 to 93+71.17

RA7 –

PLAN VIEW
N.T.S.



MAINTENANCE RAMP 8
Sta 115+50.00 to 117+46.91 Lt

RA8 –

PLAN VIEW
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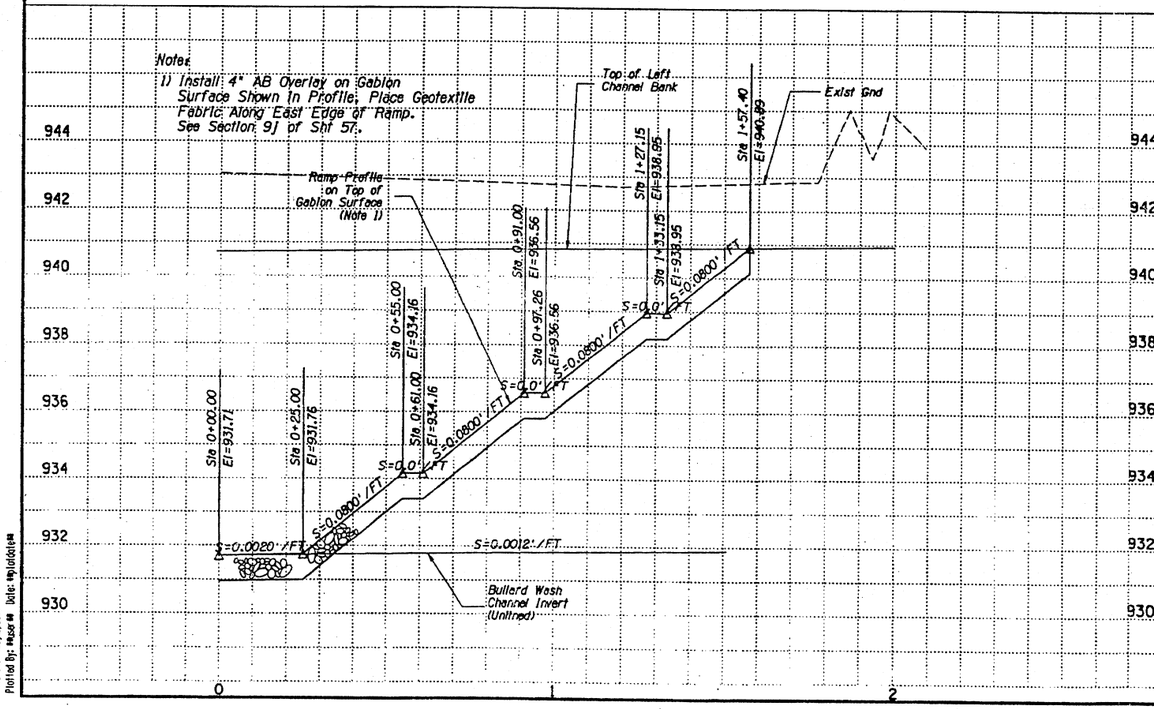

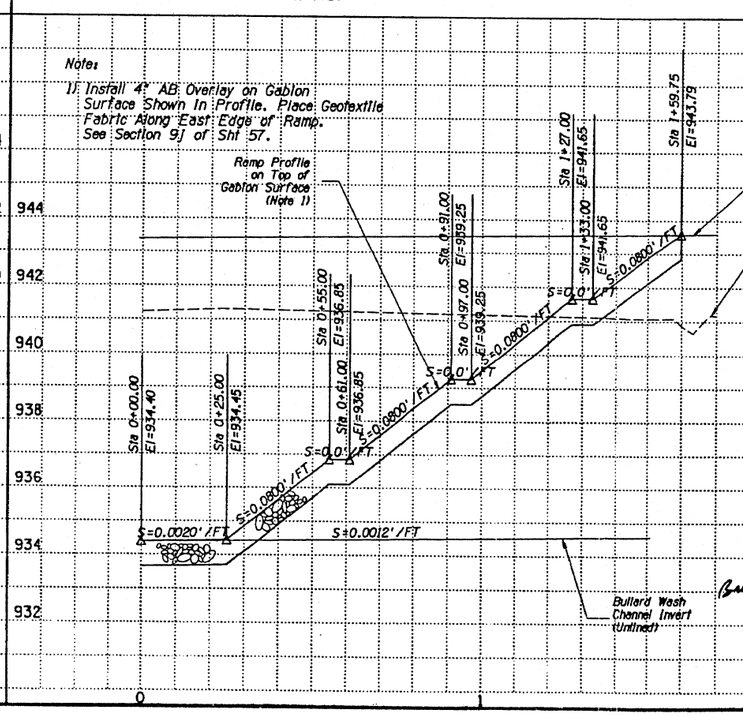

NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

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CHECKED	B. OLBERT	9/08/98

Bradford D. Olbert
CERTIFICATE NO. 13955 BRADFORD D. OLBERT REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

Sverdrup
CORPORATION

DETAIL SHEET
MAINTENANCE RAMP 7 & 8

SHEET 35 OF 81

Filename: mdrpgscs#
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Date: mm/dd/dd##

NEW PIPE SUMMARY

PIPE LOCATION				SKEW	SIZE	LENGTH	CMP		REINF. CONC.	DIP	MANHOLES	CATCH BASINS			HEADWALLS			END SECT.	CONC. SPILL-WAY	REMARKS
BEGIN STATION	OFFSET	END STATION	OFFSET		(In.)	(Ft.)	Corr.	Coat.	CLASS	CLASS.	STDS.	STD.	WING	GRATE	STD.	TYPE	AREA			
* 28+52.75	40.70' Rt	28+54.70	64.16' Rt	N/A	36	24			II						501-4					See Det P1, Inlet HW Std 501-4, Outlet HW See Det 10c, Sht 58
30+44.90	119.80' Rt	31+50.42	147.00' Rt	N/A	24	112				50					501-5					See Det P2, Inlet HW Std 501-5 and Trash Rack
																				Std 502-2, Outlet (Projecting End)
36+36.51	126.00' Rt	36+94.21	155.60' Rt	N/A	24	65			IV						501-1					See Det P3, Inlet & Outlet HW Std 501-1
49+60.49	126.00' Rt	50+26.94	144.09' Rt	N/A	24	67			IV						501-5/501-1					See Det P4, Inlet HW Std 501-5, Outlet HW Std 501-1
71+57.50	99.00' Lt	74+23.24	115.72' Lt	N/A	36	266			III						501-4					See Det P5, Inlet & Outlet HW Std 501-4
74+78.23	114.79' Lt	76+84.53	124.00' Lt	N/A	30	209			III						501-5/501-4					See Det P6, Inlet HW Std 501-5, Outlet 501-4, Conc Collar Std Dtl 505
79+76.79	177.45' Lt	81+19.18	35.50' Lt	45°	24	201			II						501-4					See Det P7, Inlet HW See Det 25, Sht 64, Outlet HW Std 501-4
103+51.20	148.05' Lt	103+51.20	42.50' Lt	N/A	12	105			IV						502-1					See Det P8, Inlet HW Std 502-1, Outlet HW See Det 25, Sht 64
119+72.57	105.00' Lt	119+72.57	43.00' Lt	N/A	24	62			II						502-1					See Det P9, Inlet HW Std 502-1, Outlet HW See Det 10a, Sht 58
22+19.00	59.28' Lt	21+72.00	50.70' Rt	26.5°	30	122			III						501-5			545		See Det P10, Inlet HW Std 501-5, Outlet End Section Std 545
(East Trib Chl)																				
21+12.24	7.50' Lt	21+40.67	56.75' Lt	30°	(4) 60	(4) 58			II					ADOT	B-11.12	(Mod)				See Det P11, Inlet HW Det 13, Sht 61, Outlet HW
(East Trib Chl First of 4 Pipes)																				See Det 22, Sht 64
30+69.45	180.00' Rt	31+15.42	180.00' Rt	N/A	(3) 24	(3) 45			III											See Det P12, See Inlet & Outlet HW & Spillway Det 10h, Sht 58
118+81.11	106.25' Lt	119+71.37	105.74' Lt	N/A	12	90			II						502-1					See Det P13, Inlet HW Std 502-1
74+80.00	44.32' Rt	74+80.00	72.28' Rt	N/A	24	28			III			535								See Det P14, Inlet CB Std 535, Type F, Outlet HW Conc Collar
																				Det 24, Sht 64
107+50.00	115.00' Lt	107+50.00	42.50' Lt	N/A	12	73			IV						502-1					See Det P15, Inlet HW Std 502-1, Outlet HW In Bank Lining
																				Det 25, Sht 64
76+00.00	43.41' Rt	76+00.00	80.43' Rt	N/A	24	37			III			535								See Det P16, Inlet CB Std 535, Type F, Outlet HW Conc Collar
																				Det 24, Sht 64
36+50.72	133.13' Lt	36+49.29	138.21' Rt	0°	30	271				50										See Det S1, Inlet & Outlet MH See Det 12, Sht 60
49+77.01	133.63' Lt	49+75.75	137.88' Rt	0°	30	272				50										See Det S2, Inlet & Outlet MH See Det 12, Sht 60
62+45.99	144.83' Lt	62+44.67	138.72' Rt	0°	30	284				50										See Det S3, Inlet & Outlet MH See Det 12, Sht 60
70+59.14	83.06' Lt	71+15.10	81.17' Rt	20° Lt	30	174				50										See Det S4, Inlet & Outlet MH See Det 12, Sht 60

* All stationing is referenced to the Bullard Wash Channel Centerline unless noted otherwise

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	G. FROEHLICH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

Sverdrup
CORPORATION

NEW PIPE SUMMARY SHEET

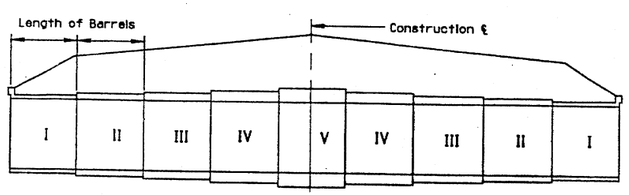
SHEET 36 OF 81

Filename: Nsypsp.dgn
Plotted By: mcoates Date: May/06/1998

REINFORCED CONCRETE BOX CULVERT SUMMARY

DESCRIPTION				STANDARD DRAWINGS REQUIRED	LENGTH OF BARRELS										APPROXIMATE QUANTITIES					REMARKS
STATION	PLAN REF. NO. ◯	STRUC NO.	SIZE		Left of ℄ ▲					Right of ℄ ▲					Struc Exc CY	Class A f'c=3000psi Concrete CY	Reinforcing Steel Lbs.	Structure Backfill CY	Drainage Exc CY	
					I	II	III	IV	V	V	IV	III	II	I						
28+77.74 to 29+00.74	N/A	BC1	(4) 12' x 10' (Skew 0° to BID S. Bypass)	ADOT Std B-01.10,	11.5'										N/A	107	12,264	N/A	N/A	Quantities Include Inlet Wingwalls
(Bullard Wash Channel) =																				
2+86.82				B-02.40, (Table I)																L=16' (Level Type "A" Wings)
(BID South Bypass)				B-04.20, (2:1 Sideslope)										11.5'	N/A	131	13,778	N/A	N/A	Quantities Include Outlet Wingwalls &
				B-08.20, (Level Wings)																Apron
				B-06.10																
				B-06.20 (2:1 Sideslopes)																
				C-10.64 (Sec A-A)																
																				See Det 9K, Sht 57 for Handrail
																				on Conc Barrier
Total																				

NOTE:
FOR STRUCTURAL EXCAVATION AND STRUCTURE BACKFILL PLACEMENT AND MEASUREMENT, SEE STANDARD DRAWINGS C-13.35, C-13.45 AND C-13.50.



▲ Construction ℄ (Looking Ahead).

NO.	REVISION	BY	DATE
3			
2			
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

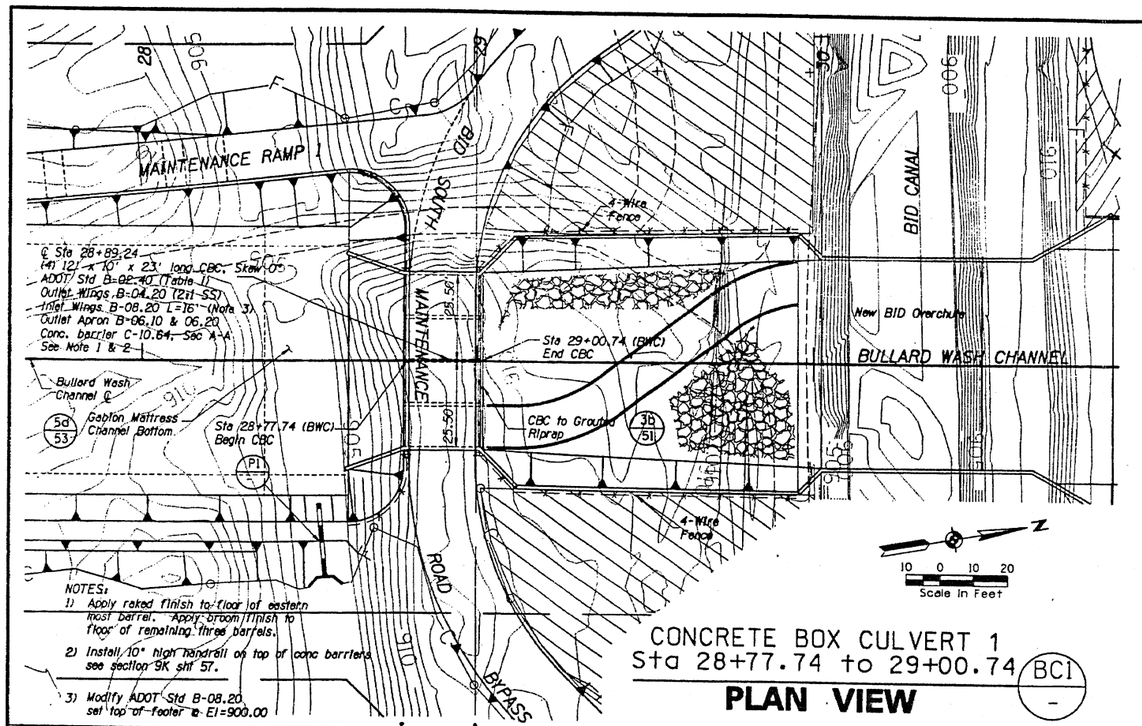
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	D. STOUGH	9/08/98
CHECKED	B. OLBERT	9/08/98

Sverdrup
CORPORATION

BOX CULVERT SUMMARY SHEET

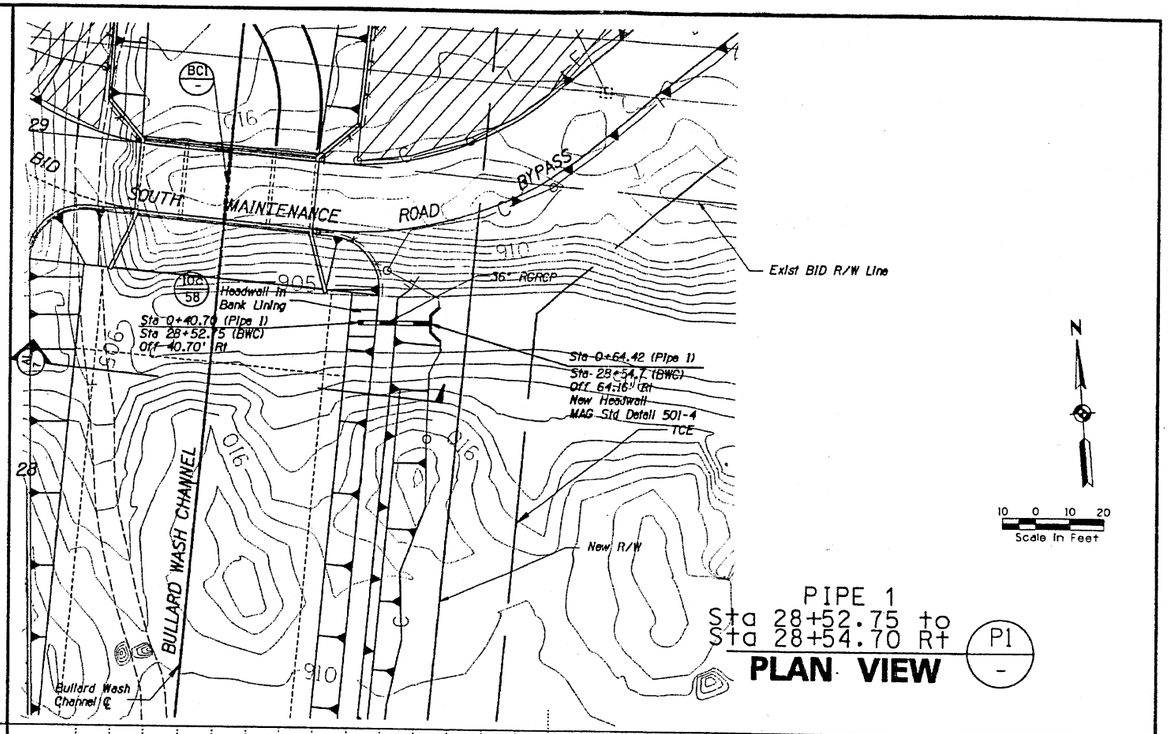
SHEET 37 OF 81

Filename: 4700pcc09
Plotted By: Rhagan Date: 09/10/1998



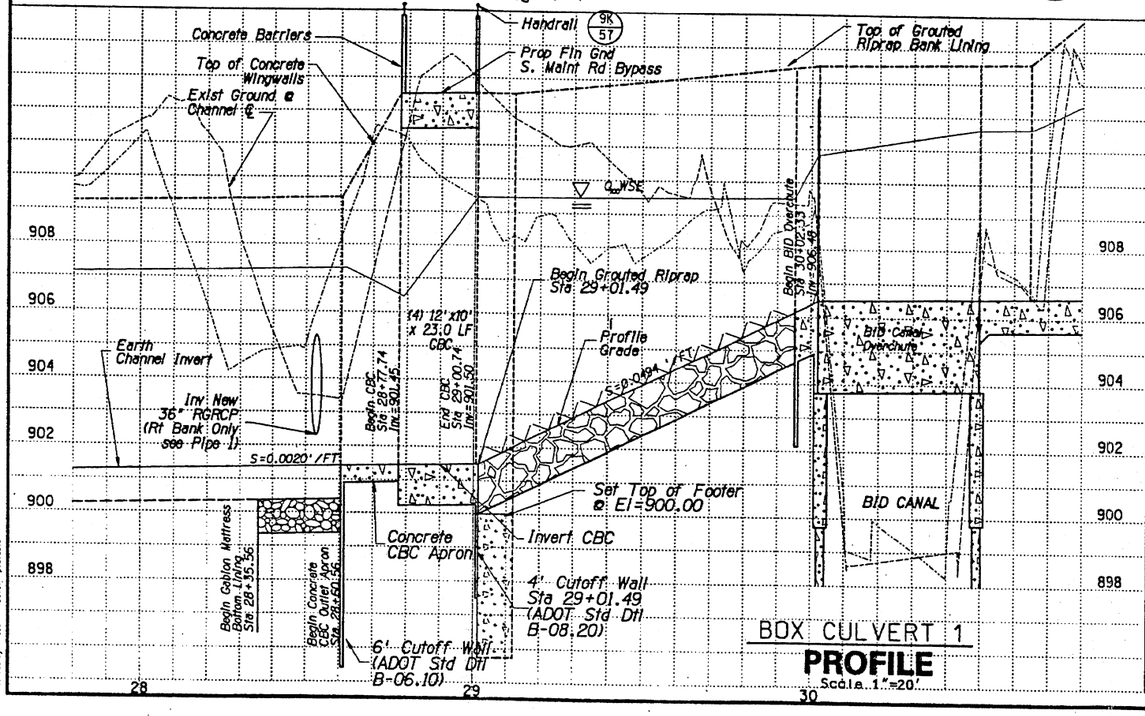
CONCRETE BOX CULVERT 1
Sta 28+77.74 to 29+00.74 (BC1)

PLAN VIEW

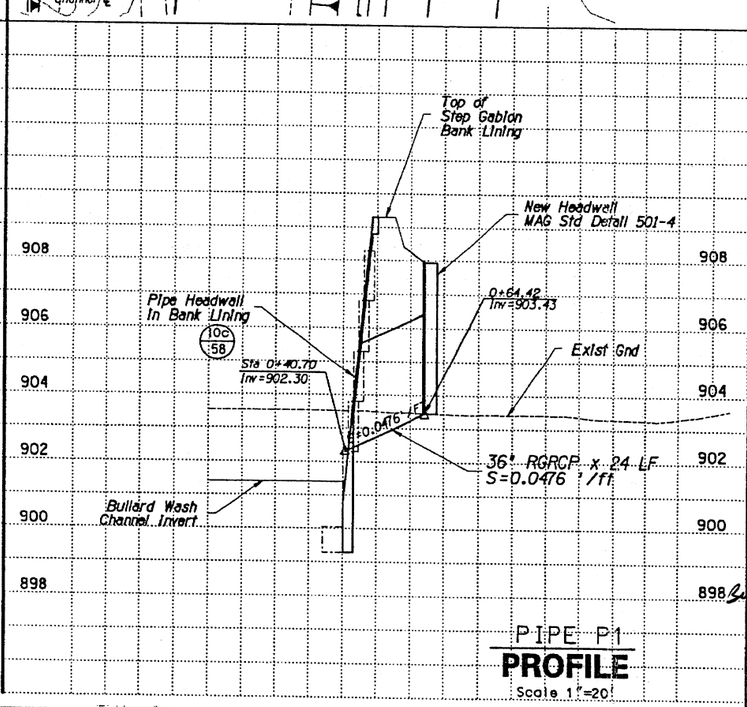


PIPE 1
Sta 28+52.75 to
Sta 28+54.70 Rt (P1)

PLAN VIEW



BOX CULVERT 1
PROFILE
Scale 1"=20'



PIPE P1
PROFILE
Scale 1"=20'

NO.	REVISION	BY	DATE
1			
2			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

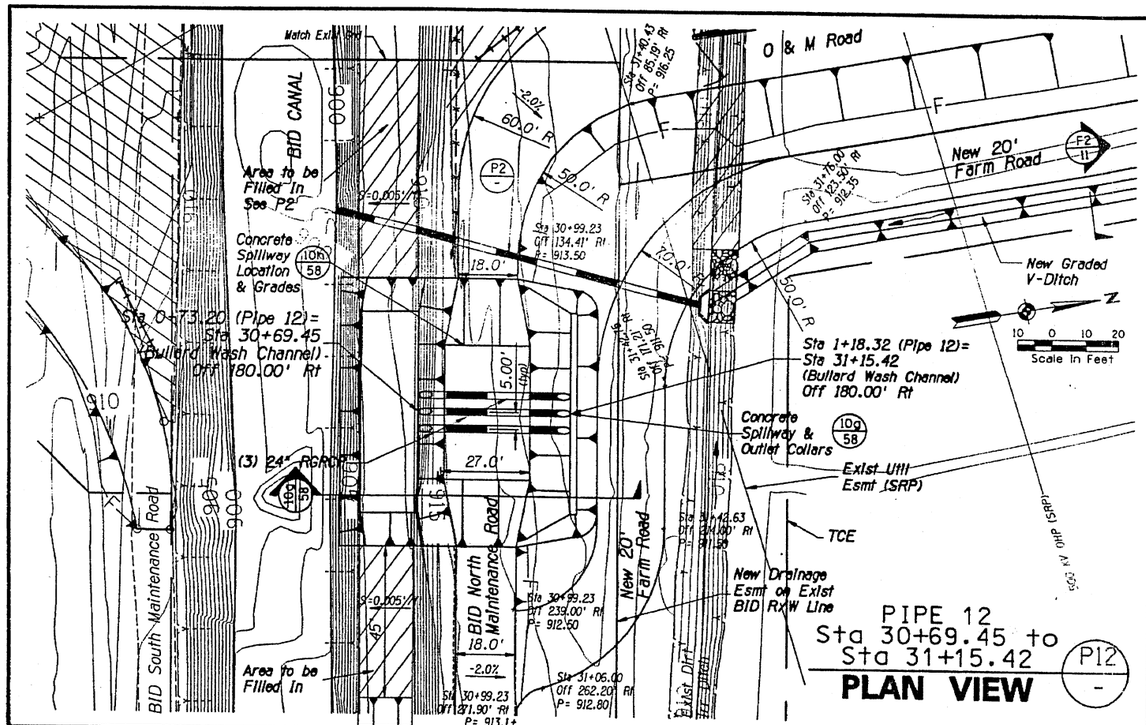
13955 BRADFORD D. OLBERT ARIZONA, USA

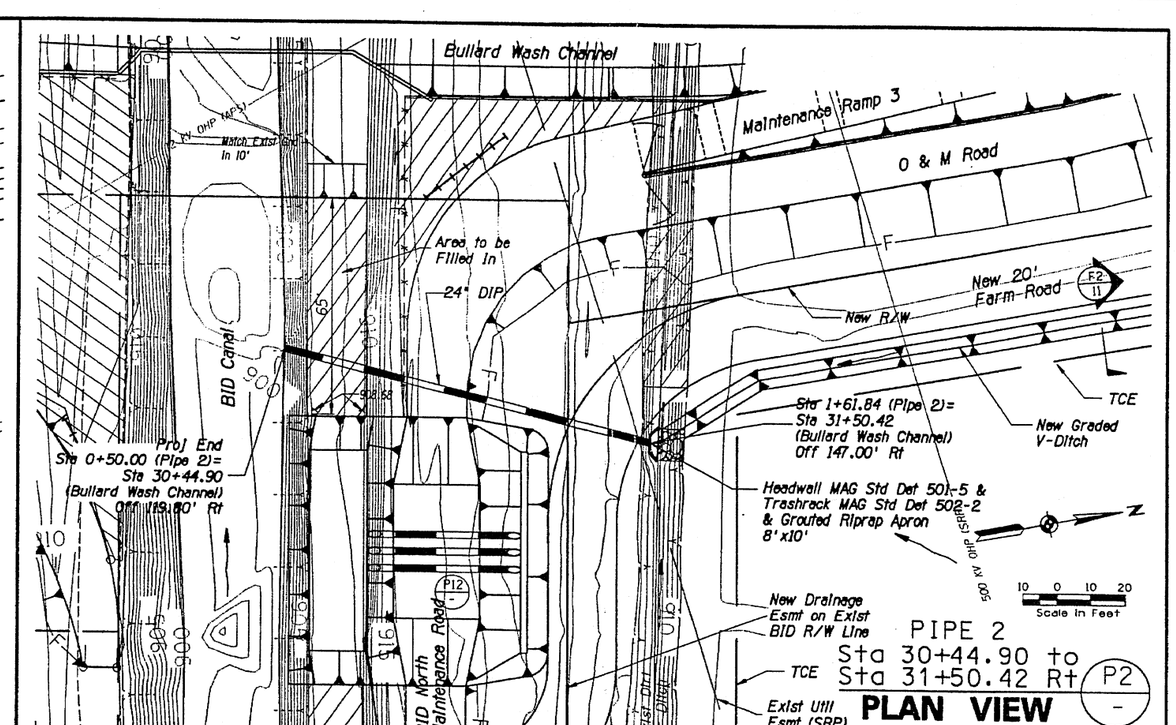
Sverdrup
CORPORATION

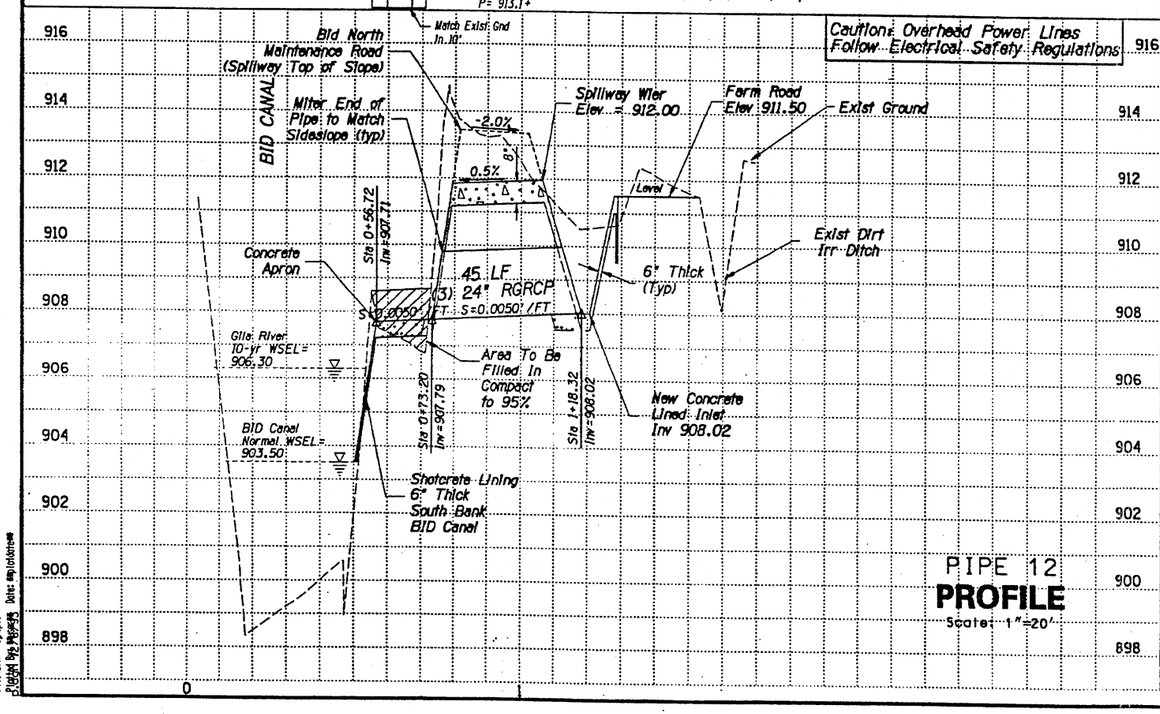
PIPE PROFILE
CONCRETE BOX CULVERT 1 and PIPE 1

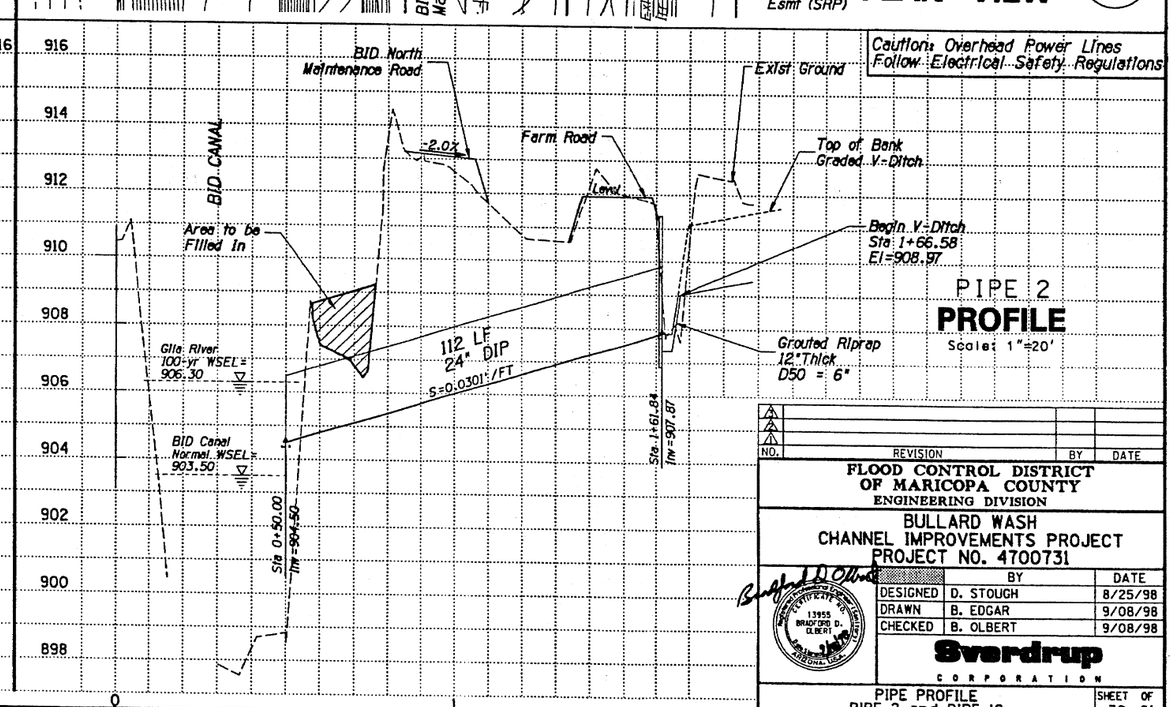
SHEET 38 OF 81

Filename: 8400pp01
Plotted By: PAGER Date: 9/10/1998









NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

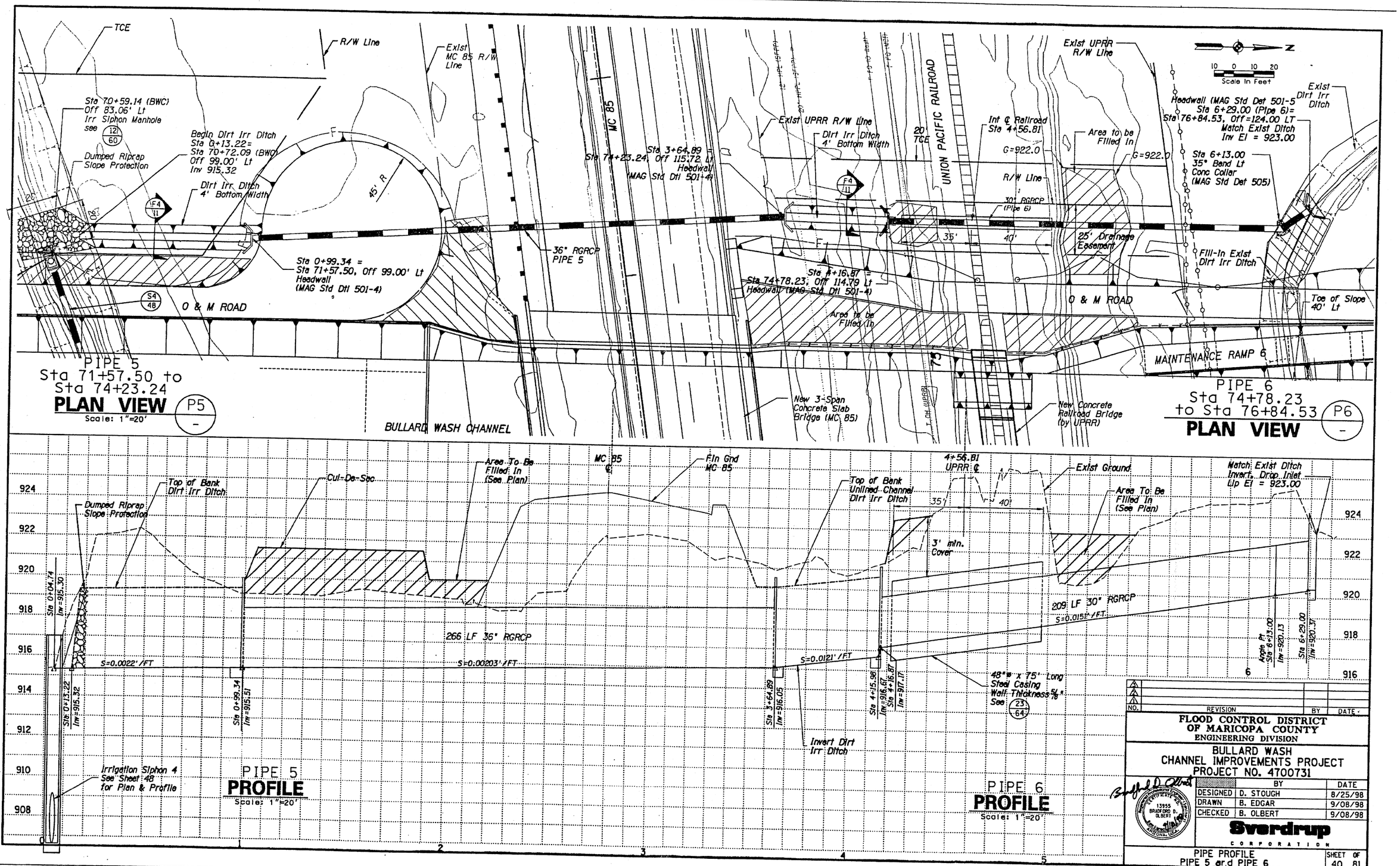
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

Bradford D. Olbert
CERTIFICATE NO. 13955 BRADFORD D. OLBERT ARIZONA U.S.A.

Sverdrup CORPORATION

PIPE PROFILE
PIPE 2 and PIPE 12

SHEET 39 OF 81



NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

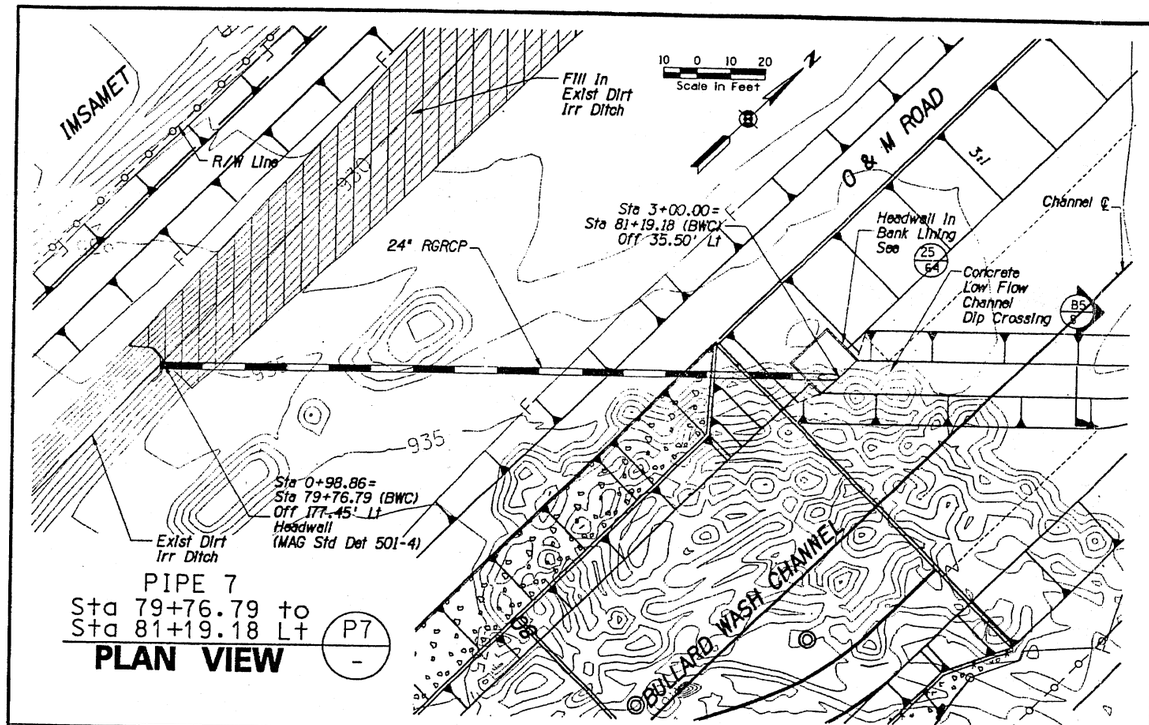
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

Sverdrup CORPORATION

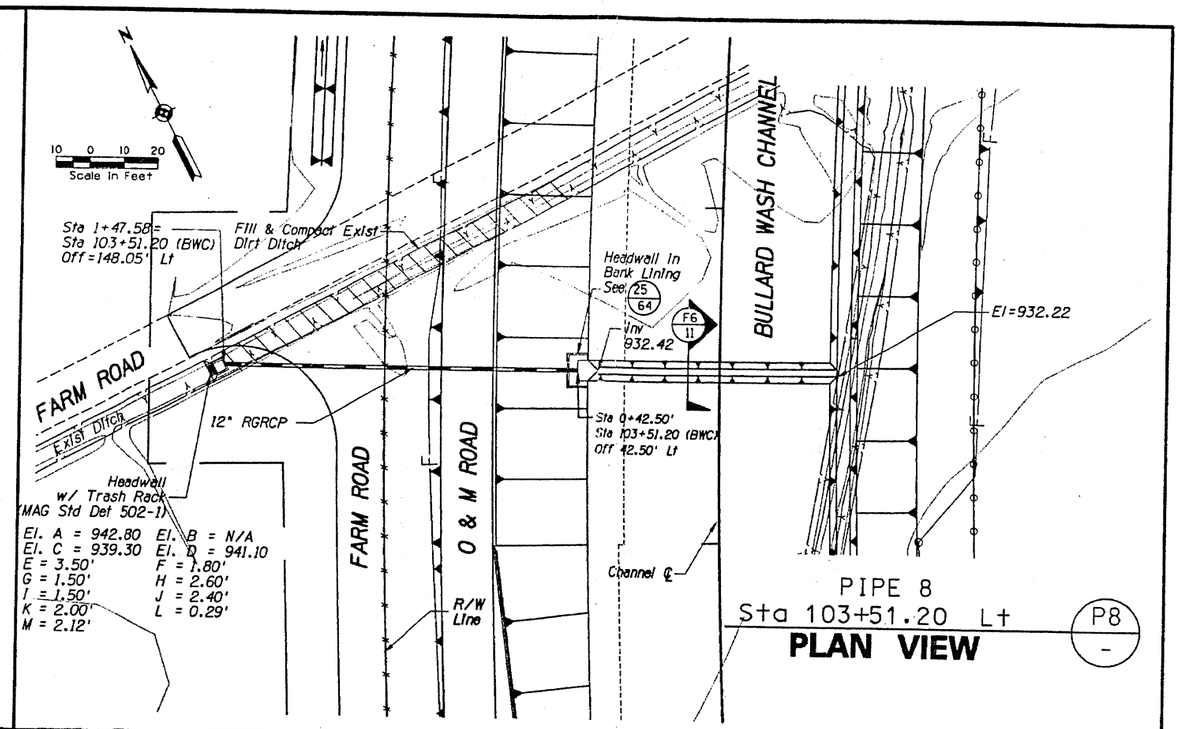
PIPE PROFILE
PIPE 5 and PIPE 6

SHEET 40 OF 81

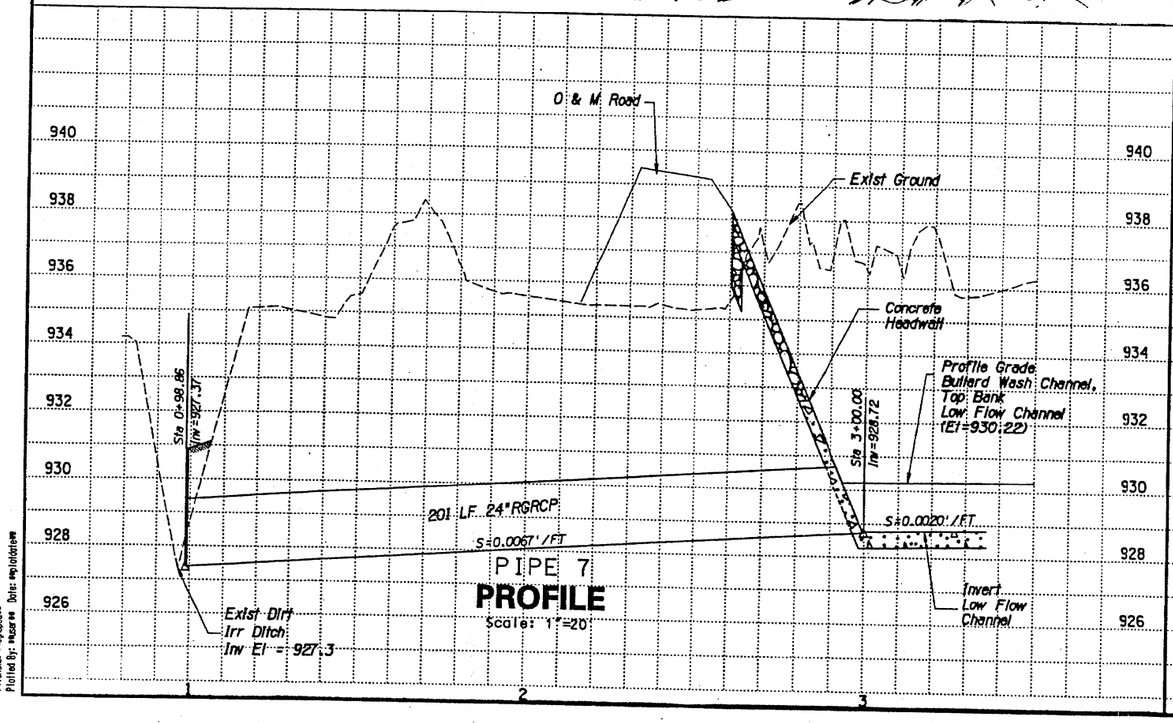
Filename: mapcpcom
Plotted By: mbarre Date: mplotdate



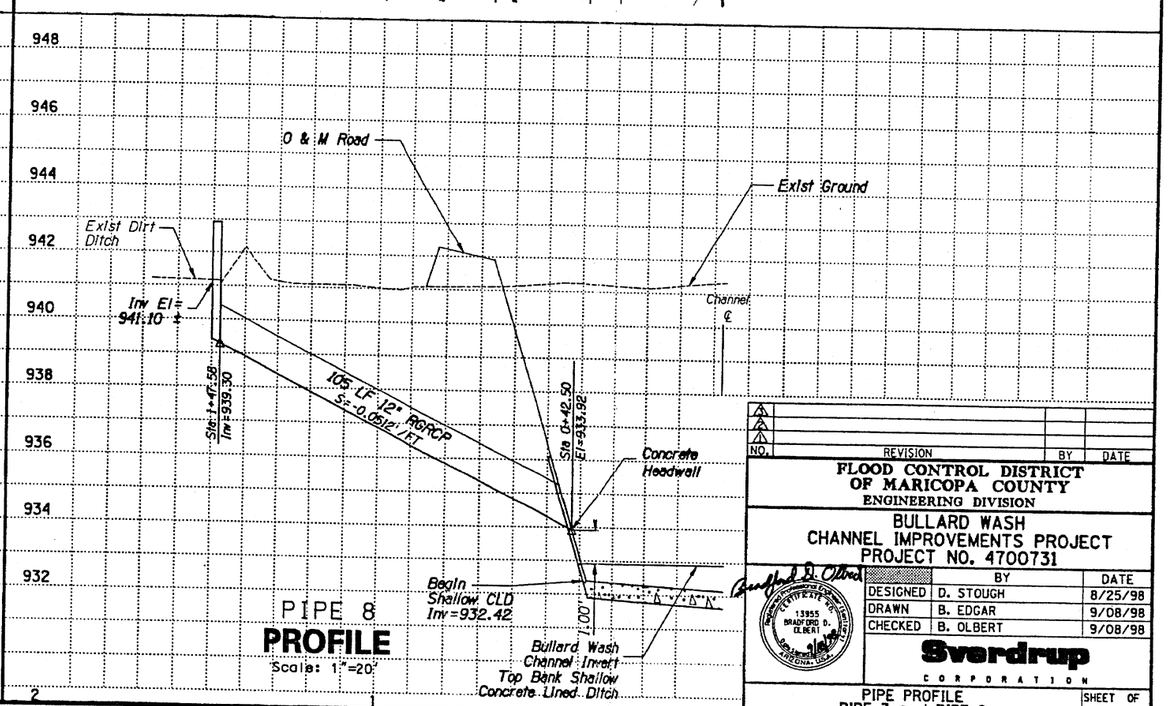
PIPE 7
Sta 79+76.79 to
Sta 81+19.18 Lt
P7
-
PLAN VIEW



PIPE 8
Sta 103+51.20 Lt
P8
-
PLAN VIEW



PIPE 7
PROFILE
Scale: 1"=20'



PIPE 8
PROFILE
Scale: 1"=20'

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

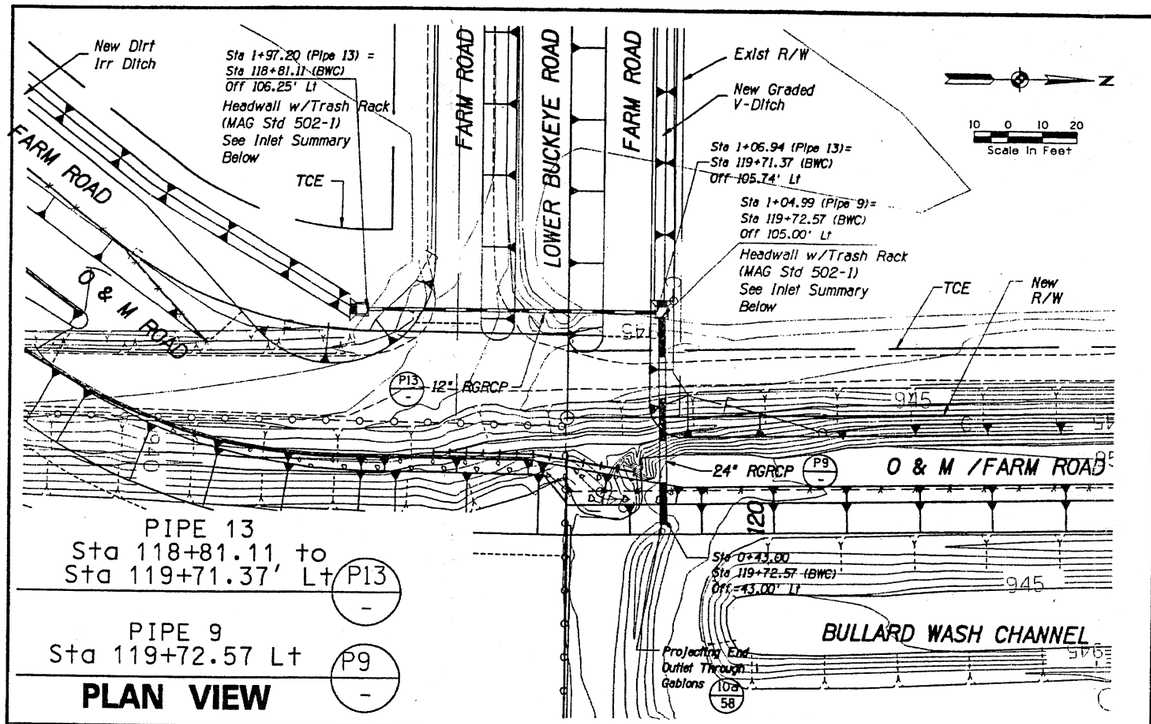
REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD D. OLBERT ARIZONA U.S.A.

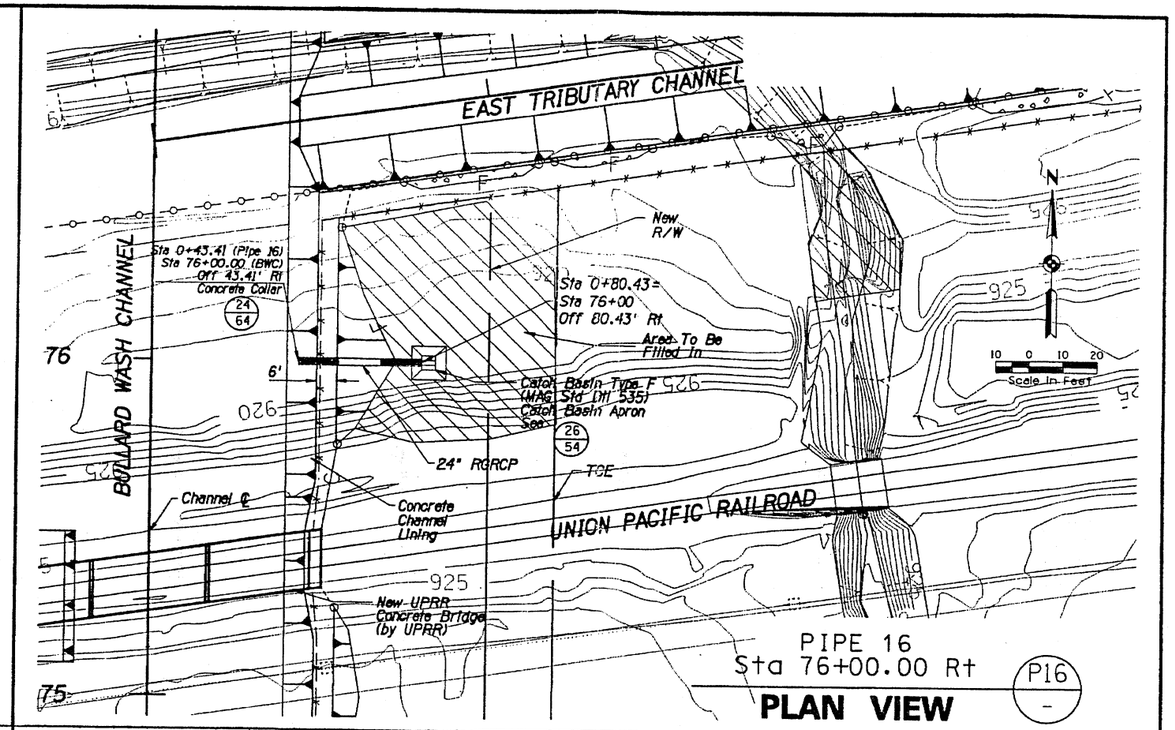
Sverdrup
CORPORATION

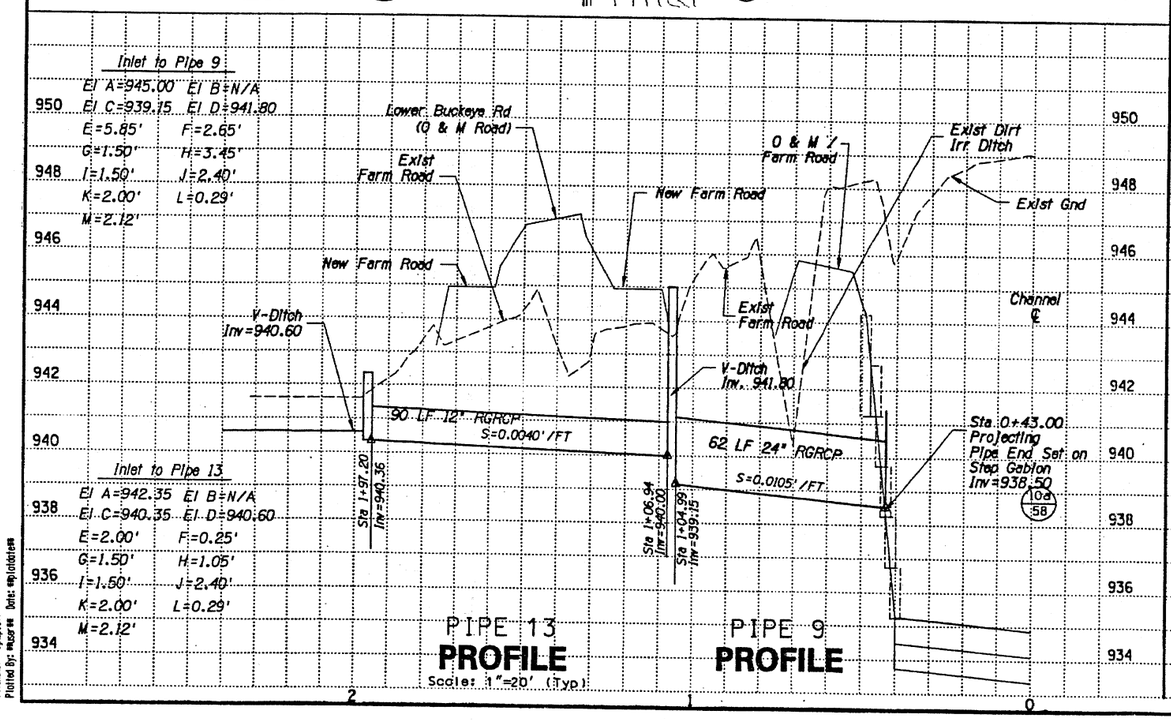
PIPE PROFILE
PIPE 7 and PIPE 8

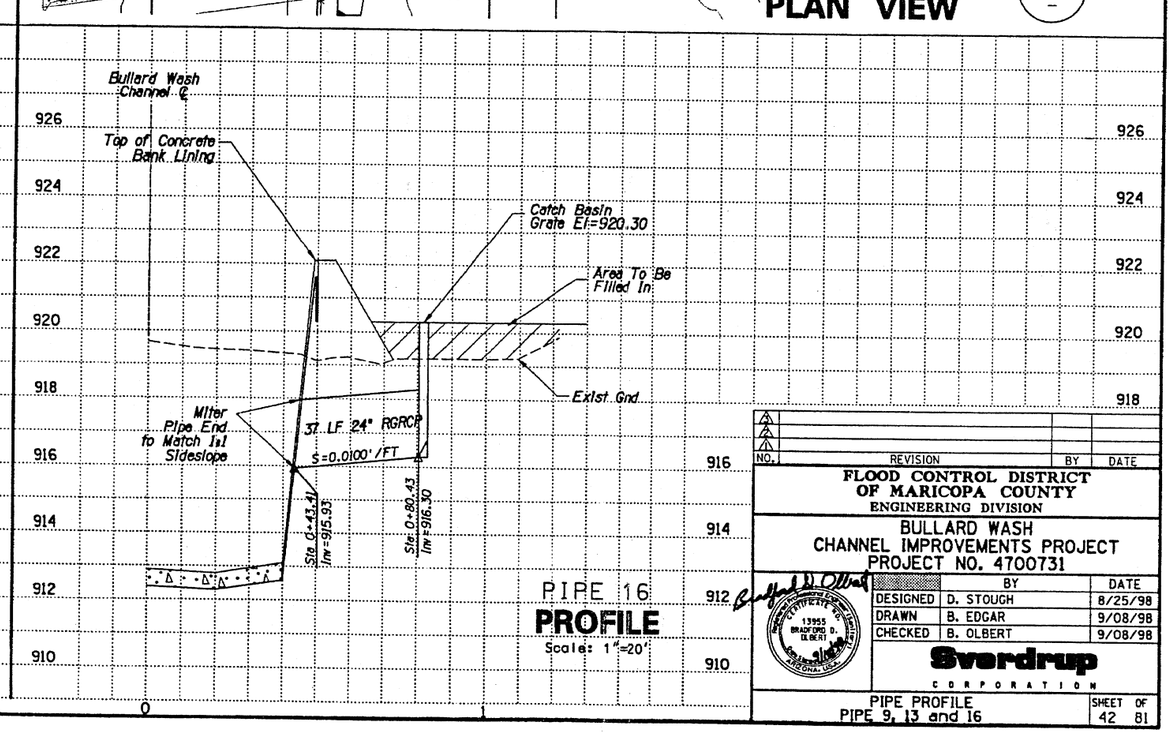
SHEET 41 OF 81

Filename: mdrpgcam
Plotted By: mdarve Date: mdplotdate









NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

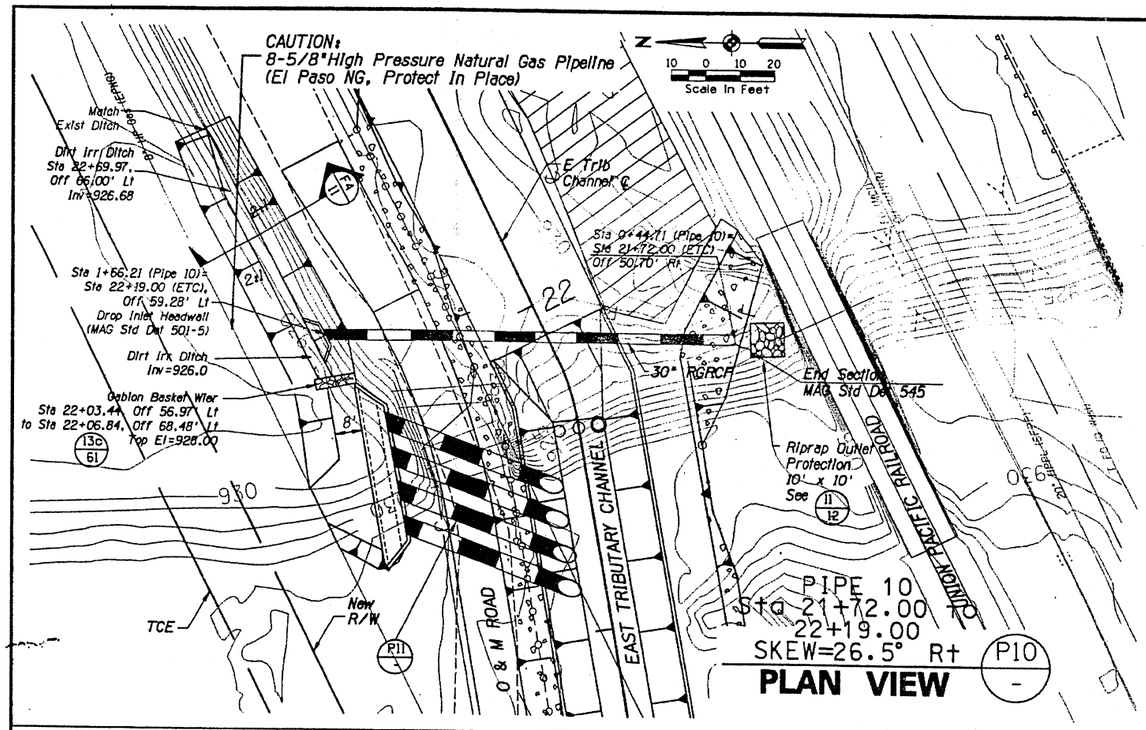
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

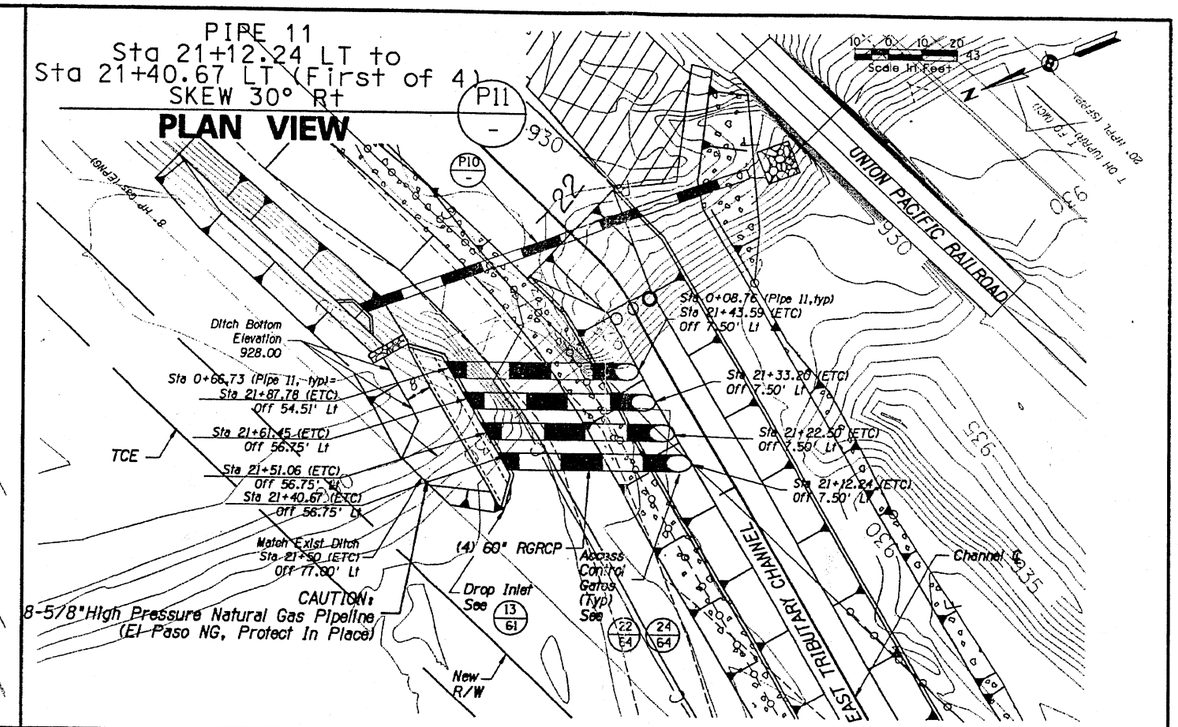
Sverdrup CORPORATION

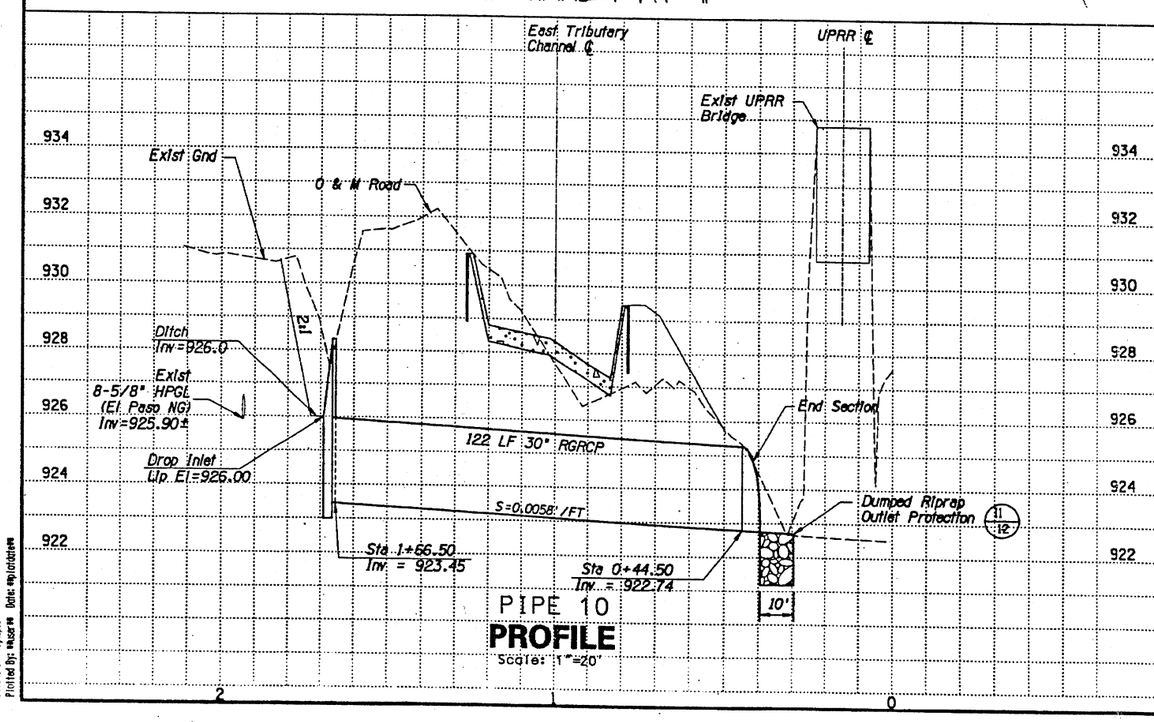
PIPE PROFILE
PIPE 9, 13 and 16

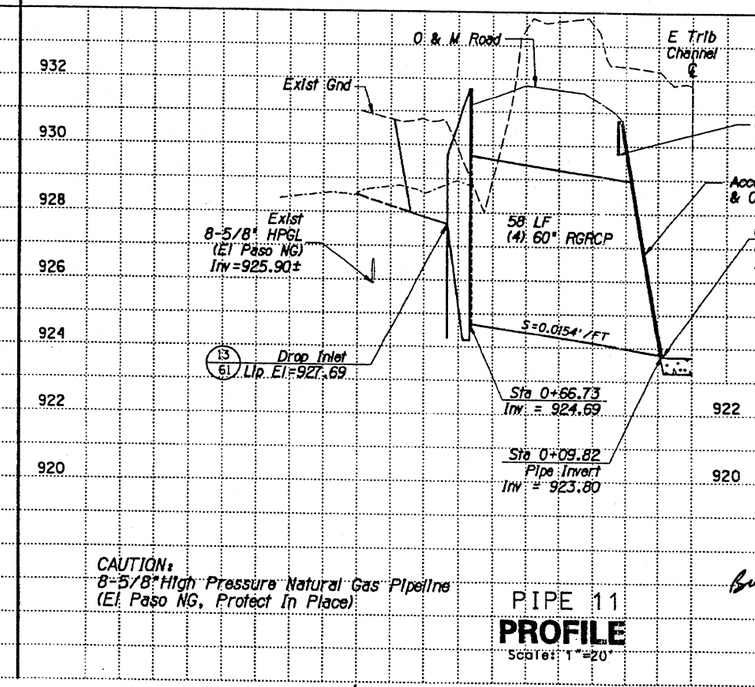
SHEET 42 OF 81

Filename: bbdpp08.dwg
Plotted By: mcarter Date: 4/plotdate









NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

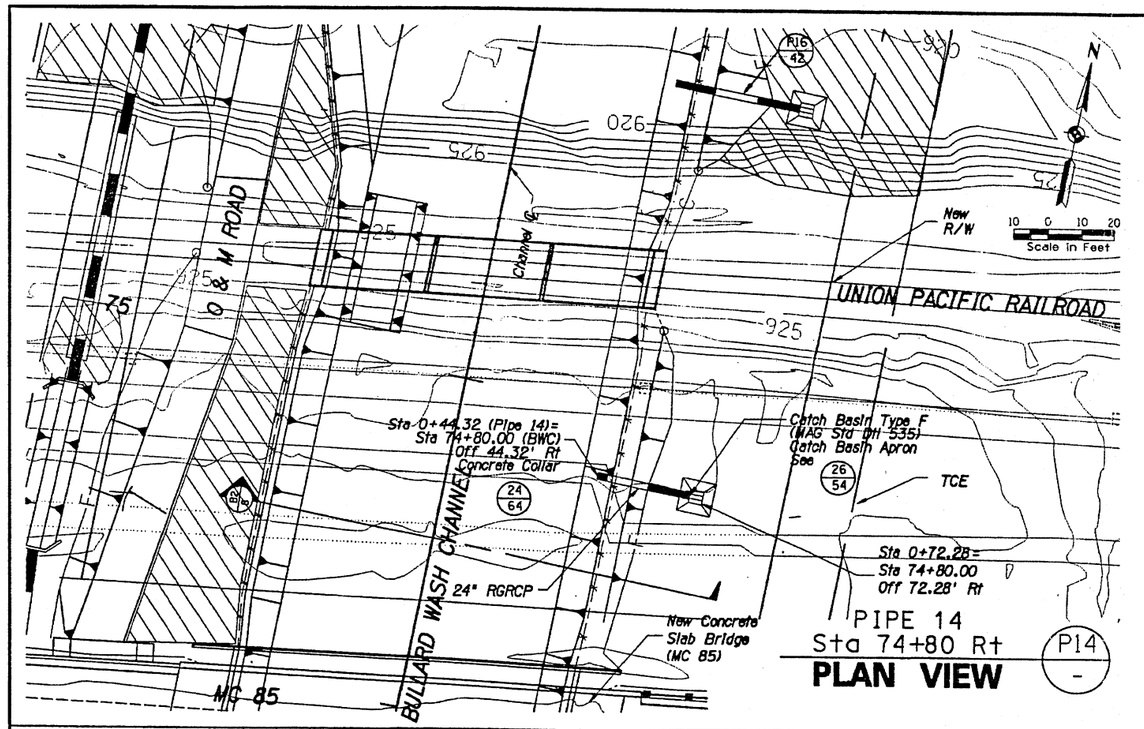
Bradford D. Olbert
REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD D. OLBERT ARIZONA, U.S.A.

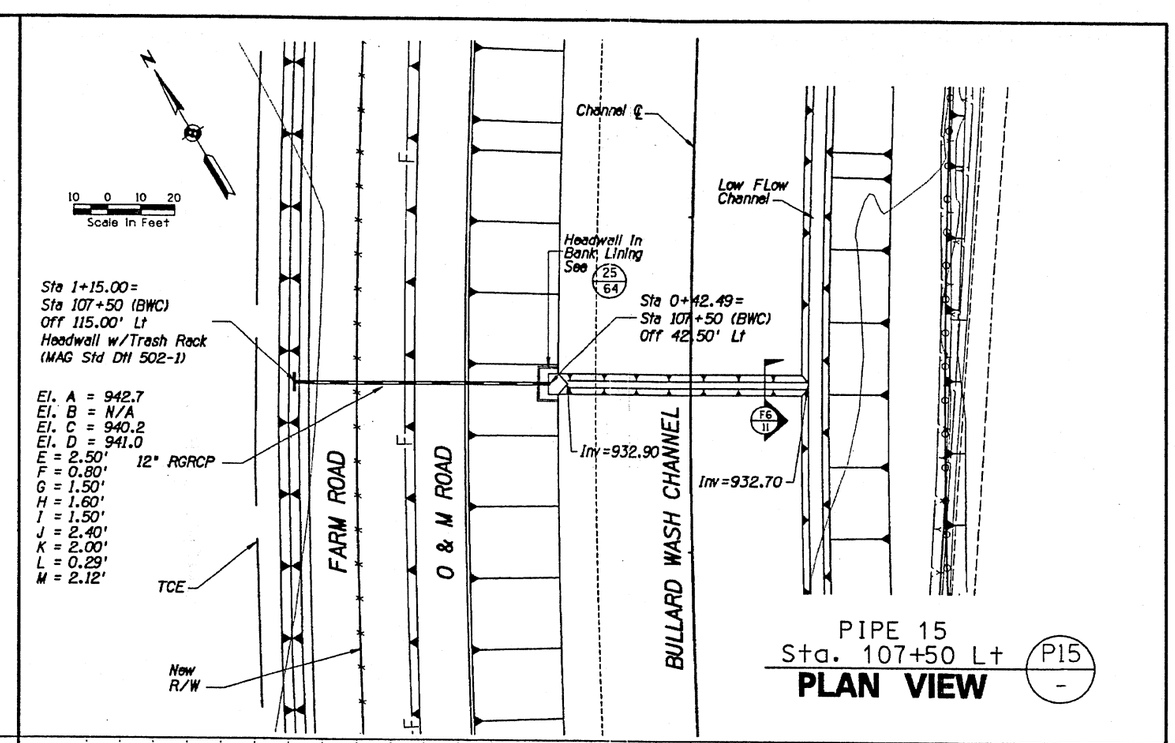
Sverdrup
CORPORATION

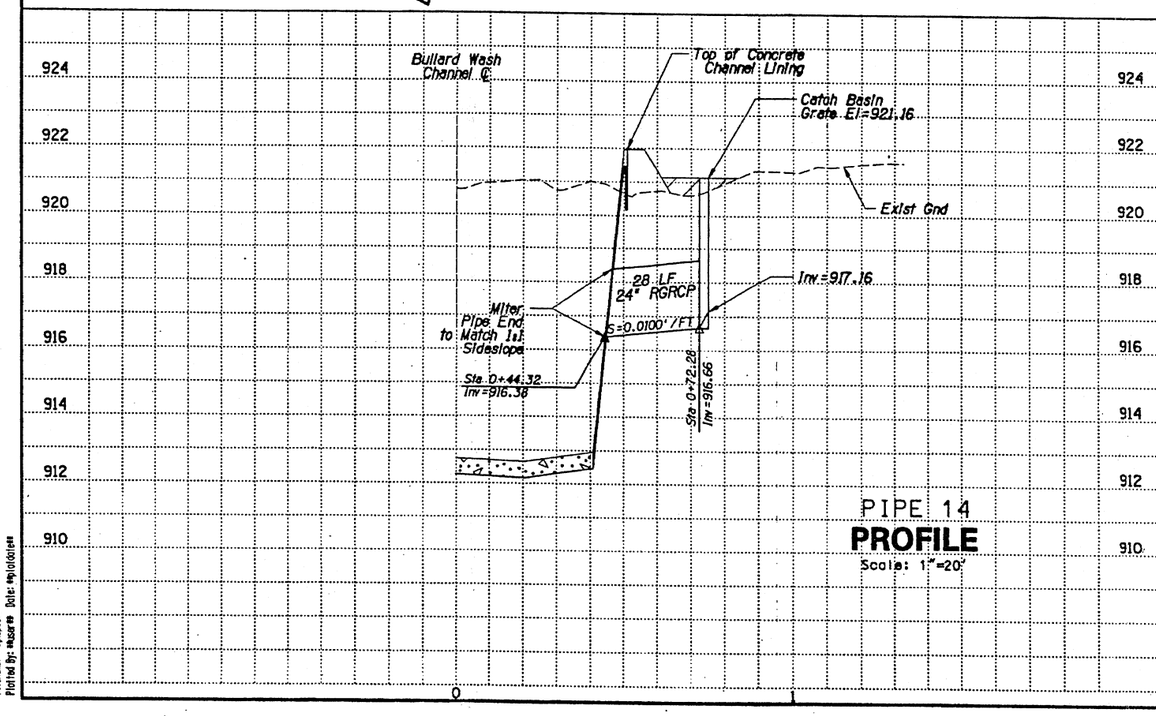
PIPE PROFILE
PIPE 10 and 11

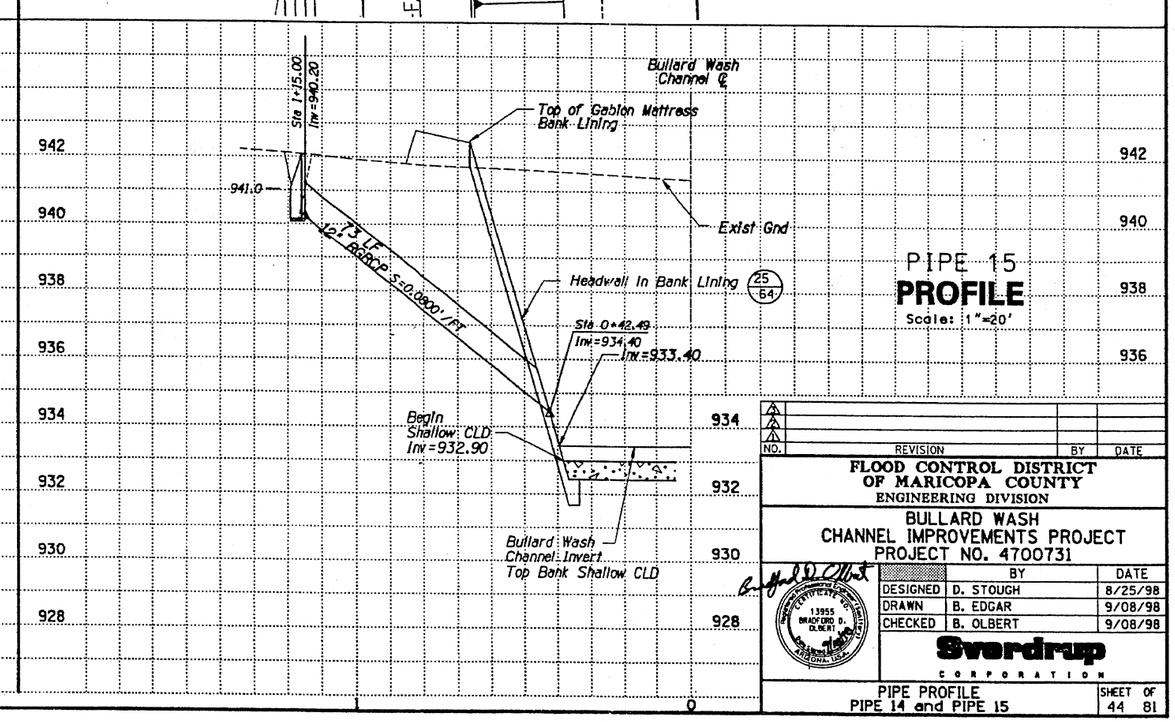
SHEET 43 OF 81

Filename: M04pipe08
Plotted By: ksoerne Date: mp/dd/dd/ww









NO.	REVISION	BY	DATE
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

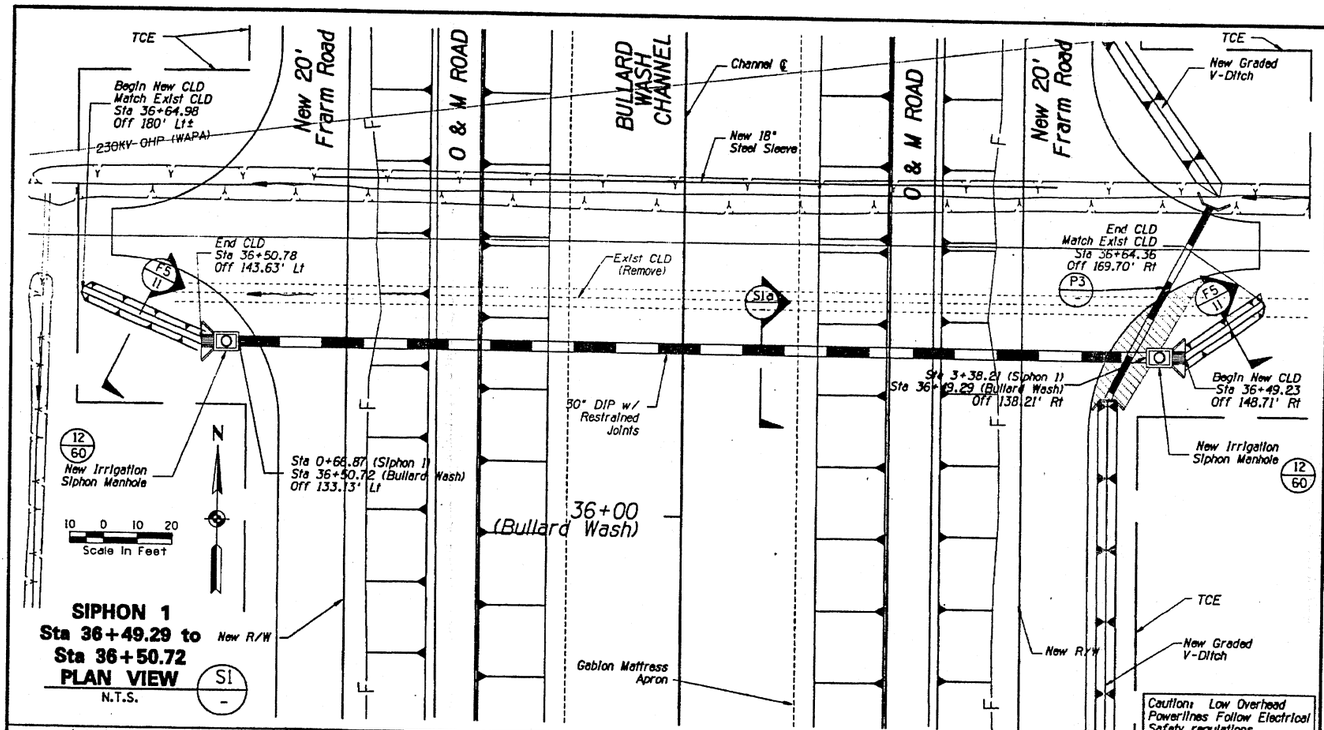
BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

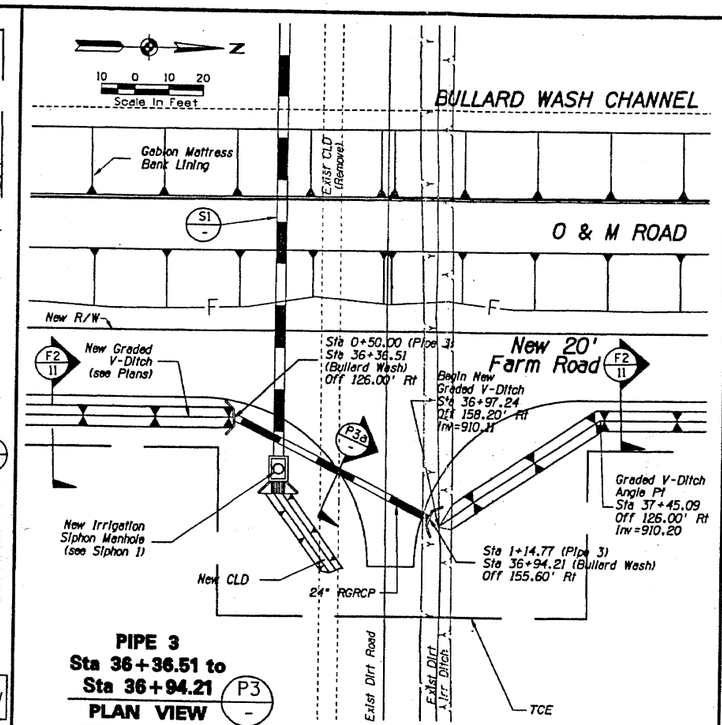
Sverdrup CORPORATION

PIPE PROFILE
PIPE 14 and PIPE 15

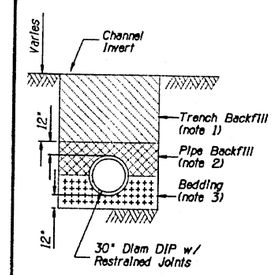
SHEET 44 OF 81



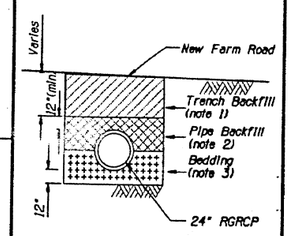
SIPHON 1
Sta 36+49.29 to
Sta 36+50.72
PLAN VIEW (S1)
N.T.S.



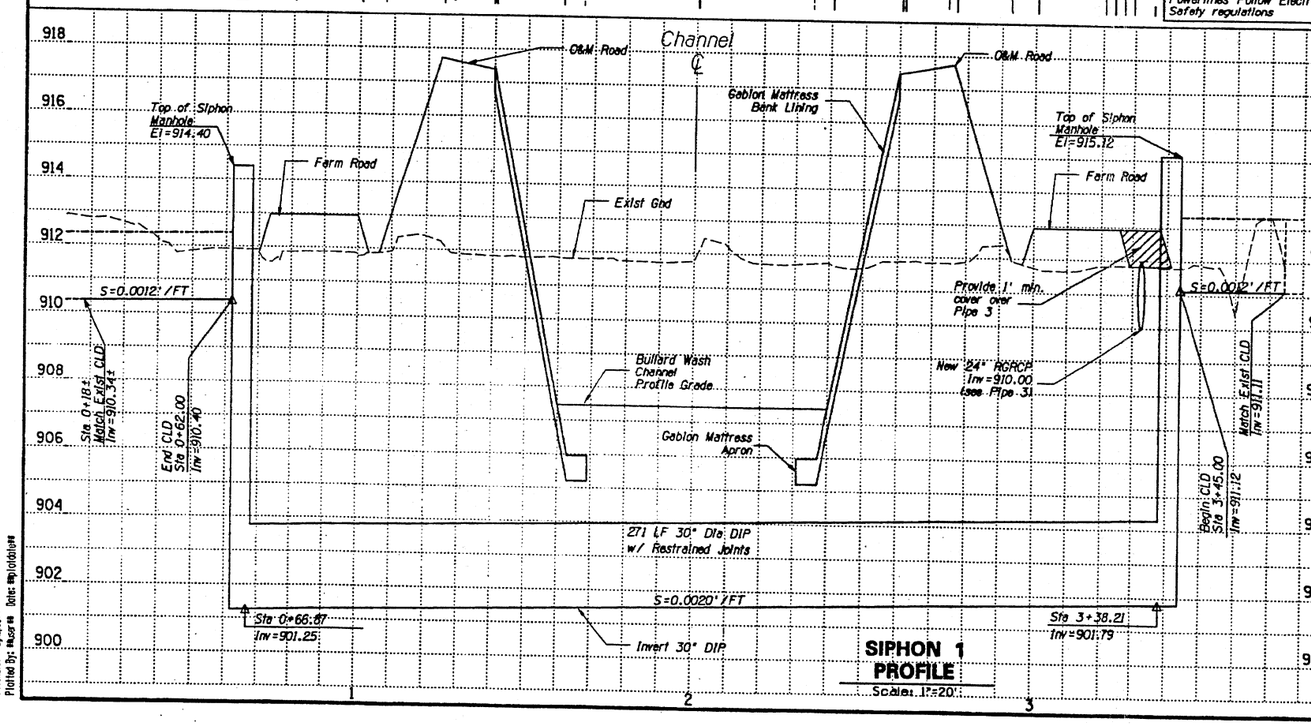
PIPE 3
Sta 36+36.51 to
Sta 36+94.21 (P3)
PLAN VIEW



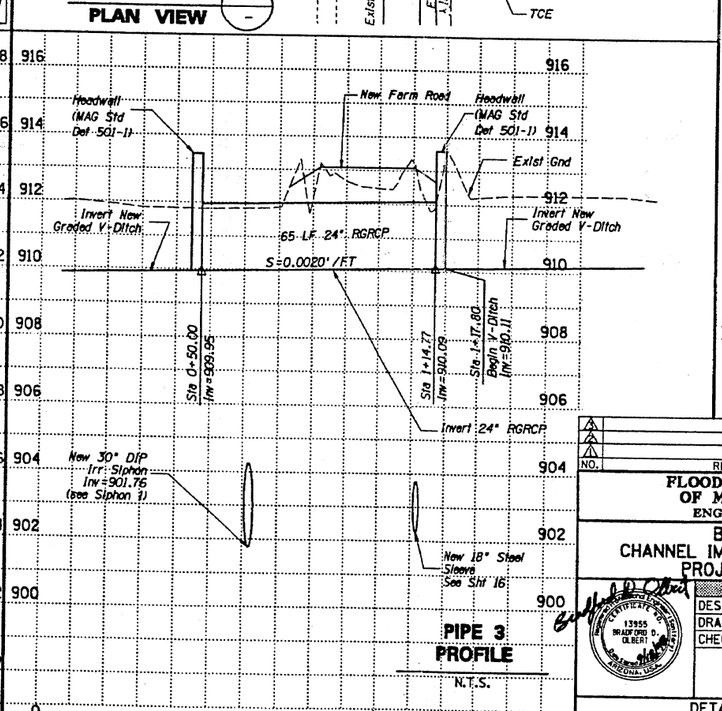
TYPICAL SIPHON SECTION (S1a)
N.T.S.



TYPICAL PIPE SECTION (Under Farm Road) (P3a)
SECTION
N.T.S.



SIPHON 1
PROFILE
Scale: 1"=20'



PIPE 3
PROFILE
N.T.S.

NOTES:
1) Compact Trench backfill to 95%.
2) Compact Pipe Backfill to 95%.
3) Overexcavate to 1 foot below the bottom of pipe. Compact subgrade and bedding material to 95%.

NO.	REVISION	BY	DATE
1			
2			
3			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

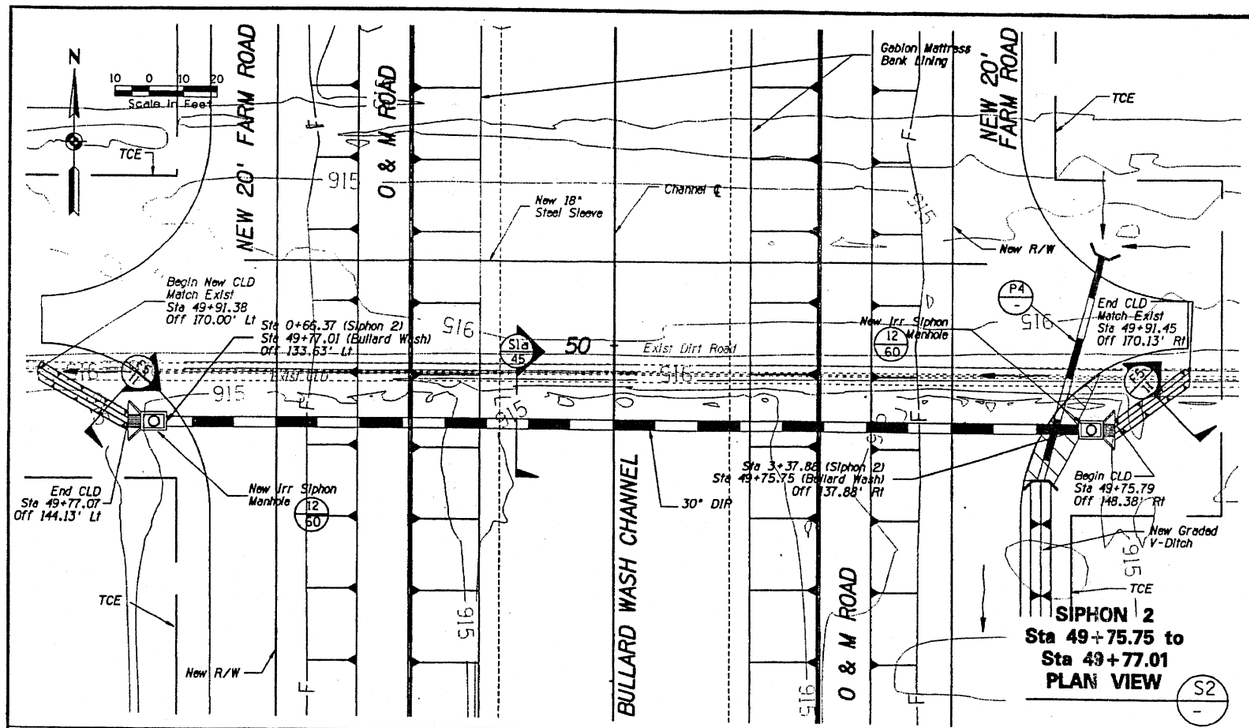
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

Sverdrup CORPORATION

DETAIL SHEET
IRRIGATION SIPHON 1 AND PIPE 3

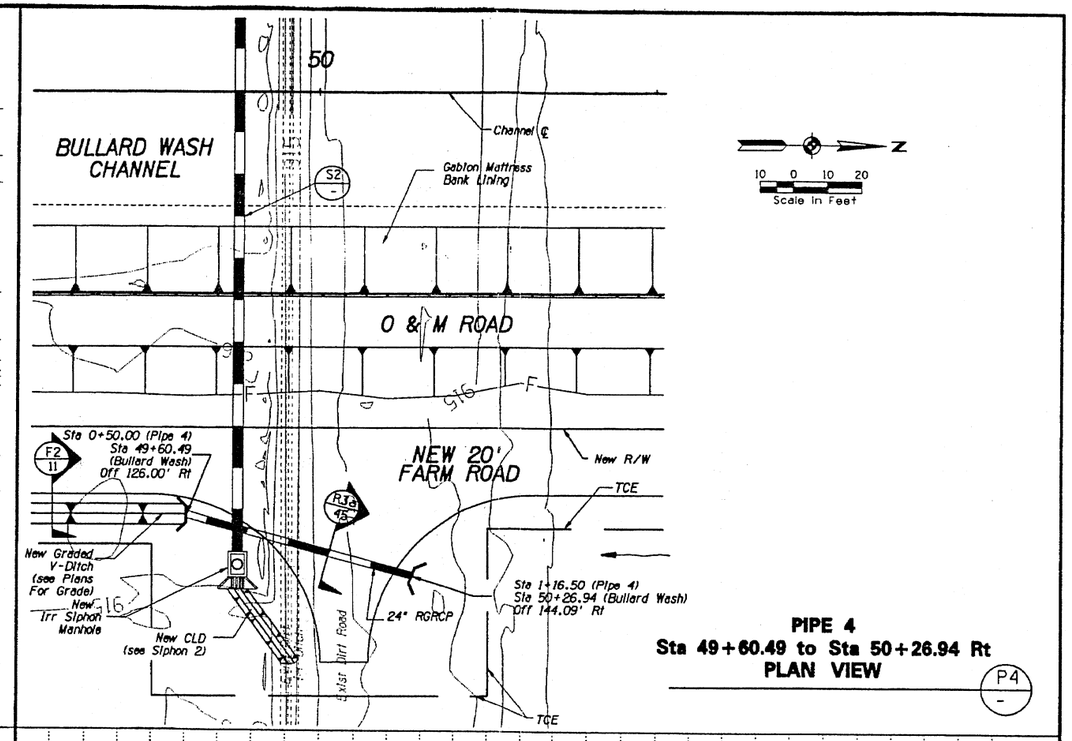
SHEET 45 OF 81

Filename: Widgrpc.dwg
Plotted By: Widgrpc Date: Widgrpc



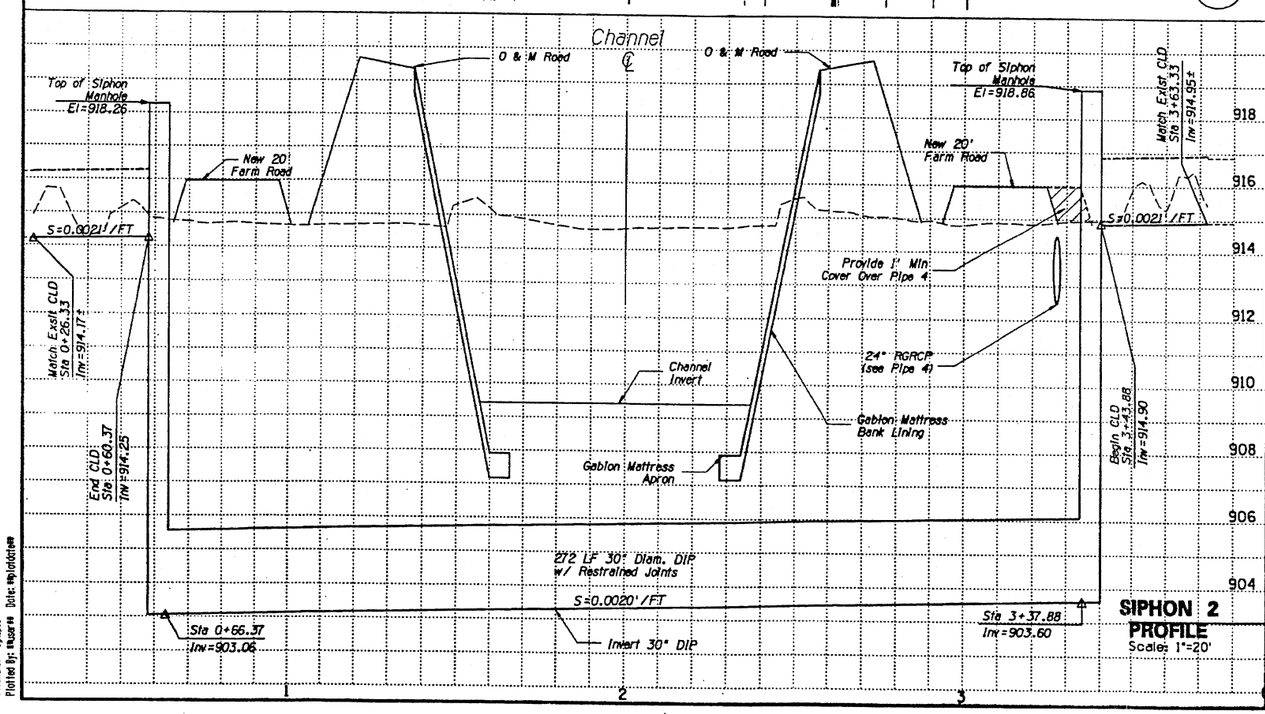
SIPHON 2
Sta 49+75.75 to Sta 49+77.01
PLAN VIEW

S2 -

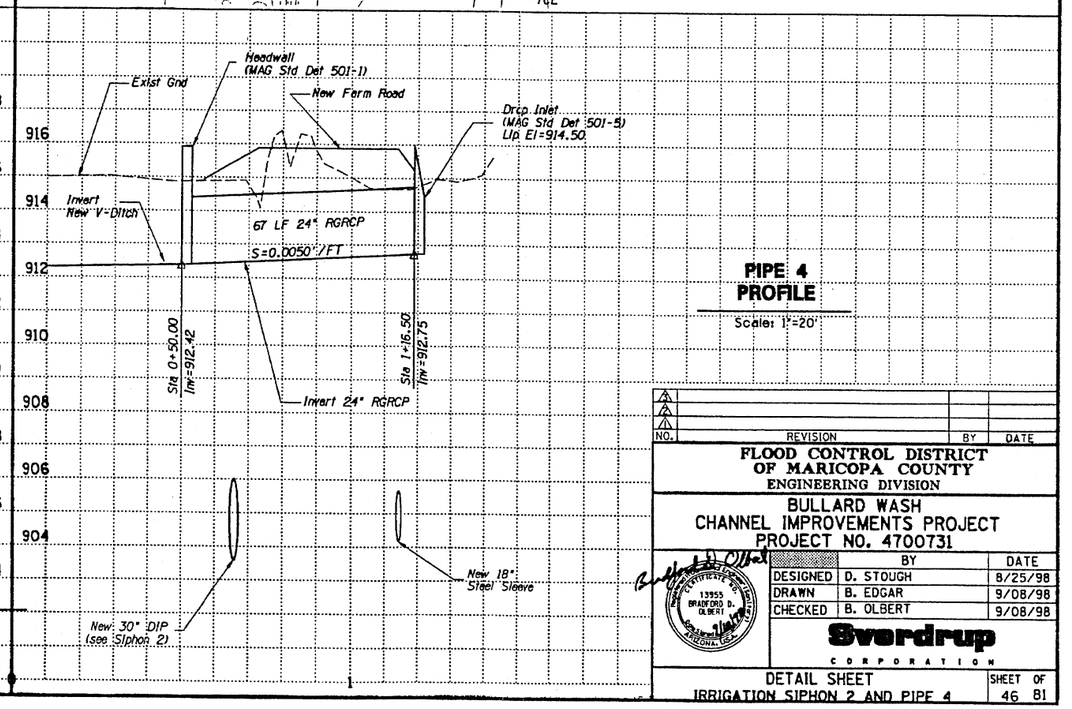


PIPE 4
Sta 49+60.49 to Sta 50+26.94 Rt
PLAN VIEW

P4 -



SIPHON 2
PROFILE
Scale: 1"=20'



PIPE 4
PROFILE
Scale: 1"=20'

NO.	REVISION	BY	DATE
1			
2			
3			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

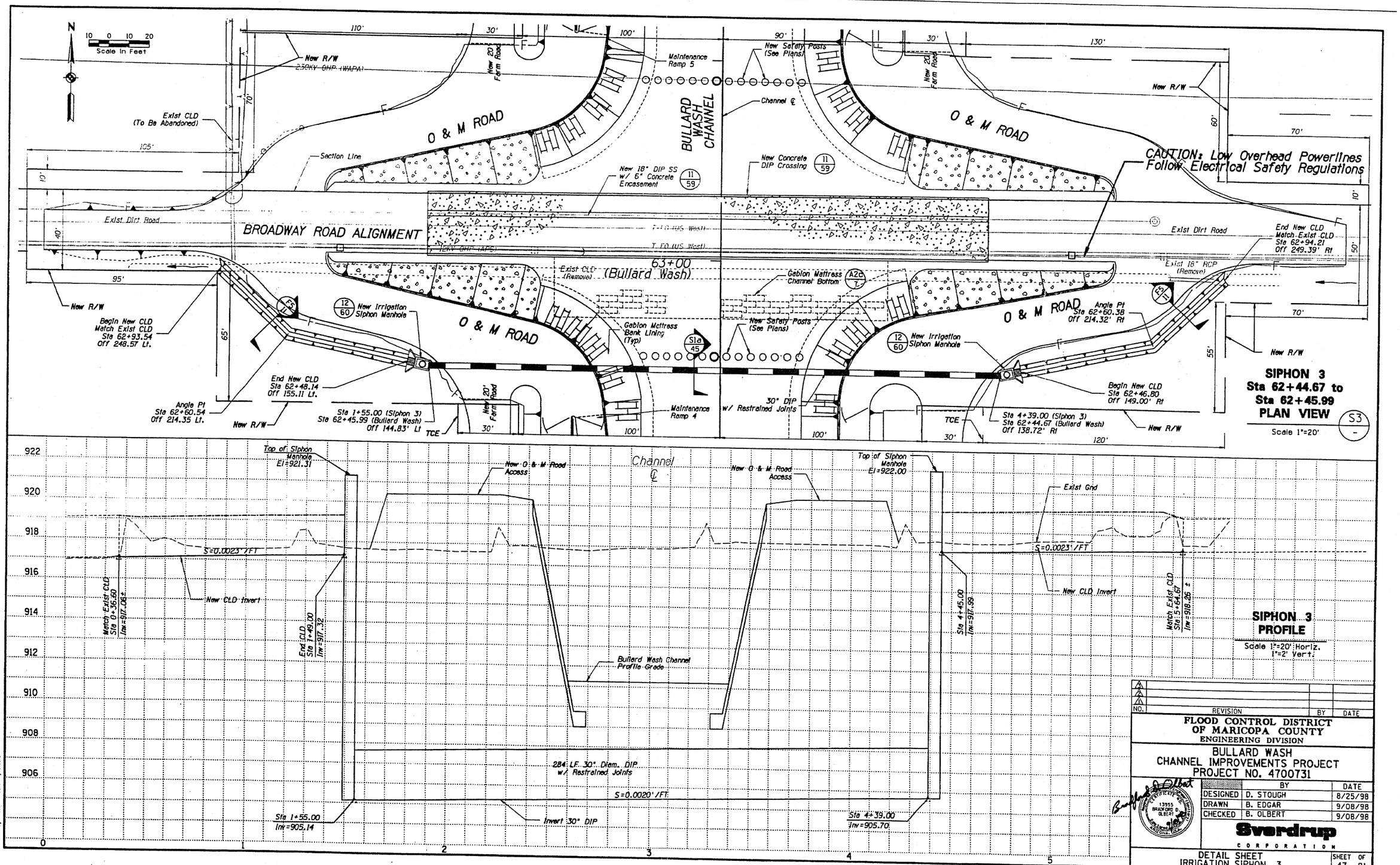
REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. 13955 — BRADFORD D. OLBERT — ARIZONA U.S.A.

Sverdrup
CORPORATION

DETAIL SHEET
IRRIGATION SIPHON 2 AND PIPE 4

SHEET 46 OF 81

Filename: MAGpsize.M
Plotted By: Mauser.M Date: mplotdate



NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

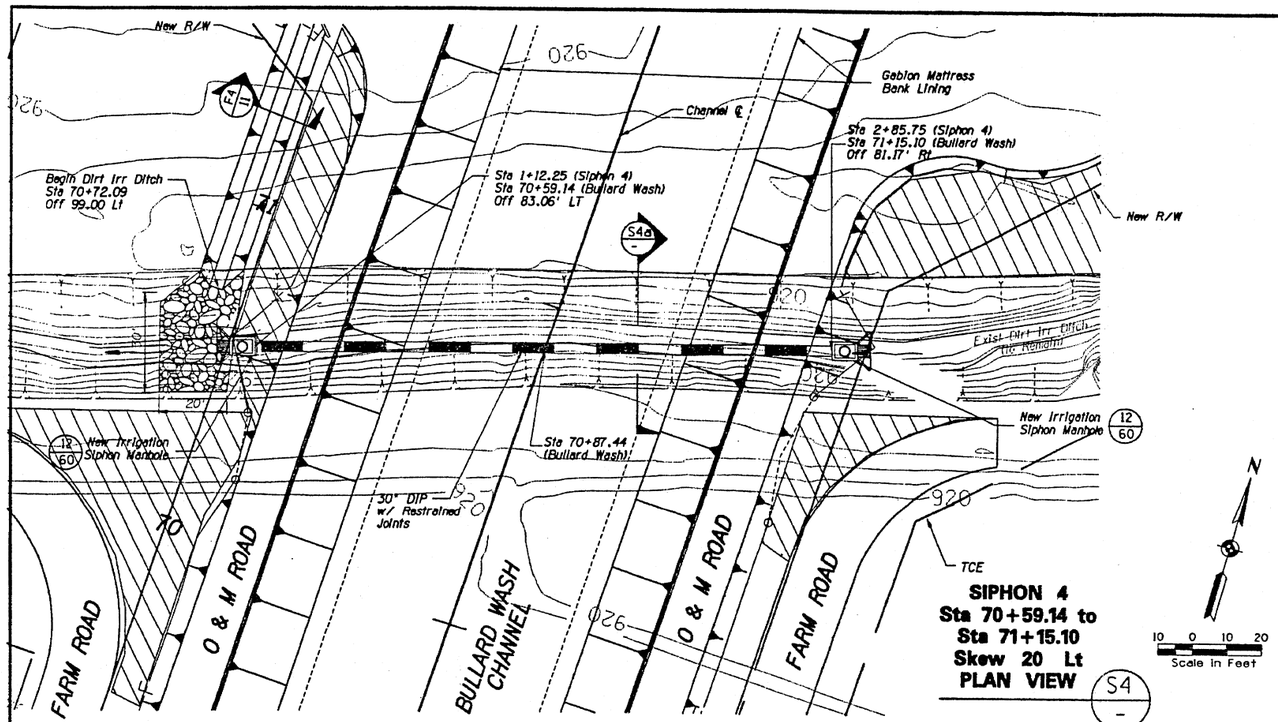
Sverdrup CORPORATION

DETAIL SHEET
IRRIGATION SIPHON 3

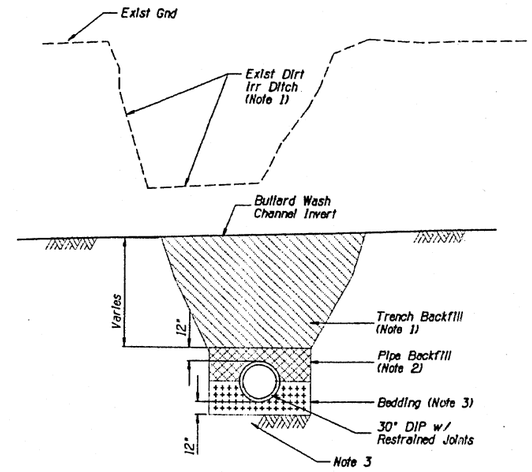
SHEET 47 OF 81

rotated -80.1664° (ccw)
actual size

Filename: sdgnsw48
Plotted By: mazerm Date: mplotdate48

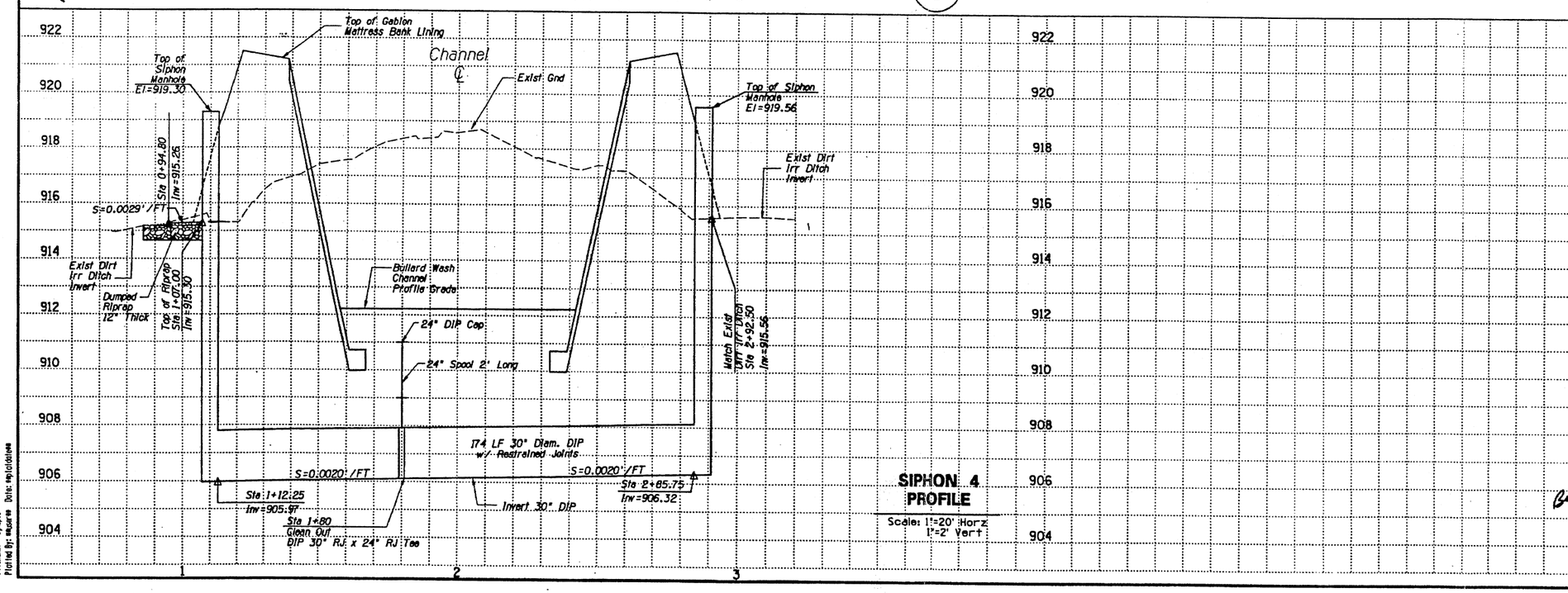


SIPHON 4
Sta 70+59.14 to
Sta 71+15.10
Skew 20 Lt
PLAN VIEW
S4



TYPICAL SIPHON SECTION
SECTION
N.T.S.
S4a

NOTES:
1) Trench backfill is deeper at the Bullard Wash channel banks. Compact to 95%.
2) Compact Pipe Backfill to 95%.
3) Overexcavate to 1 foot below the bottom of pipe. Compact subgrade and bedding material to 95%.



SIPHON 4
PROFILE
Scale: 1"=20' Horz
1"=2' Vert

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

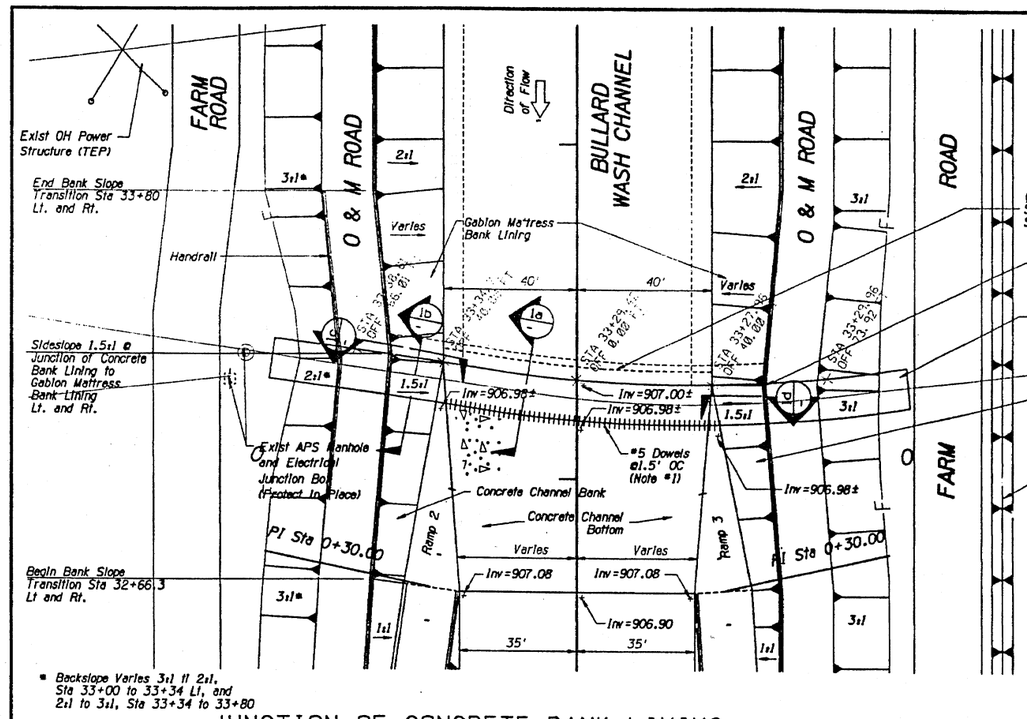
CERTIFICATE OF ENGINEER 13955 BRUCEFORD D. OLBERT ARIZONA U.S.A.

Sverdrup
CORPORATION

DETAIL SHEET
IRRIGATION SIPHON 4

SHEET 48 OF 81

Filename: redrgsect
Plotted By: mscarm Date: sep10dt98

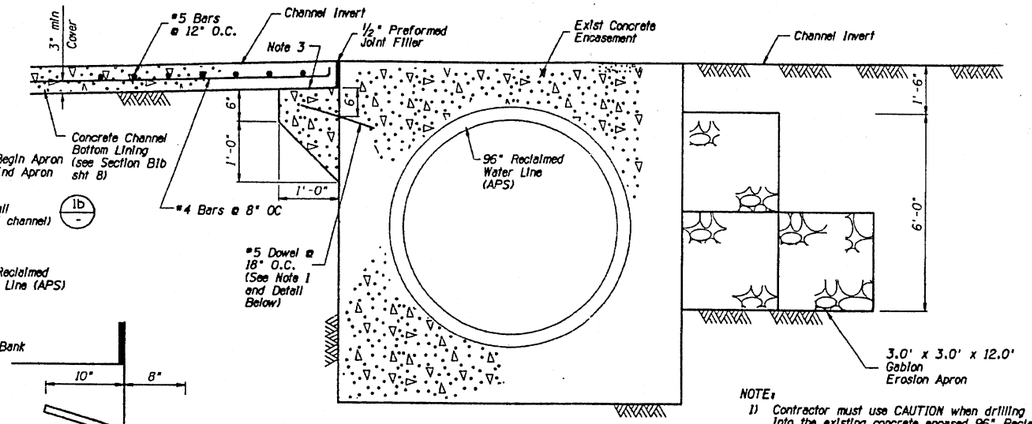


* Backslope Varies 3:1 tl 2:1, Sta 33+00 to 33+34 Lt, and 2:1 to 3:1, Sta 33+34 to 33+80

JUNCTION OF CONCRETE BANK LINING to GABION MATTRESS BANK LINING Sta 33+30 ± (1)

PLAN VIEW

N.T.S.



GABION EROSION APRON (1a)

SECTION

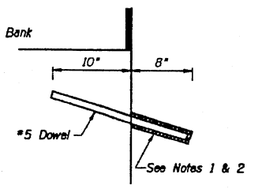
N.T.S.

NOTE:

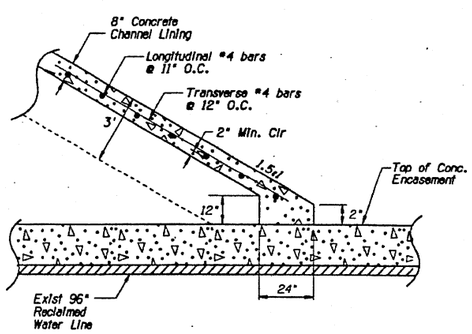
1) Contractor must use CAUTION when drilling dowels into the existing concrete encased 96" Reclaimed Water Line. Contractor shall avoid encasement reinforcing. Use rebar detector prior to drilling holes for dowels.

2) Drill 1"@ hole, 8" deep for #5 dowel. Epoxy dowel in hole with approved epoxy adhesive.

3) Place 2 layers of 40 lb roofing felt.



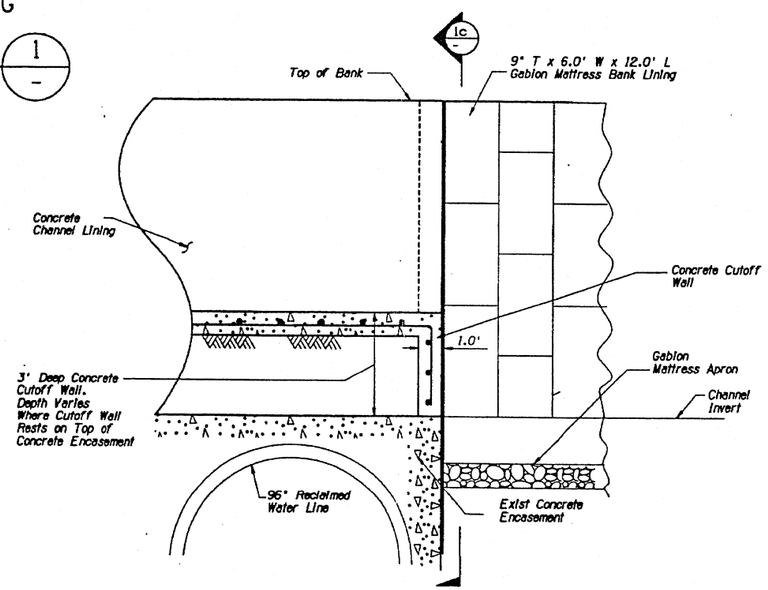
DOWEL DETAIL



CONCRETE BANK LINING OVER 96" ENCASEMENT (1d)

SECTION

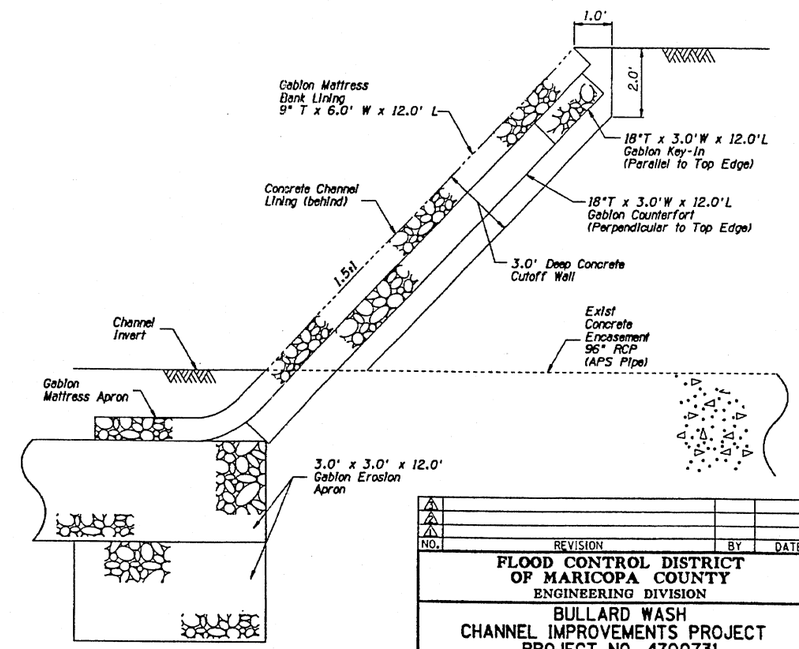
N.T.S.



CUTOFF WALL STA 33+30 ± (1b)

SECTION

N.T.S.



CUTOFF WALL & COUNTERFORT (1c)

SECTION

N.T.S.

NO.	REVISION	BY	DATE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

ENGINEERING DIVISION

BULLARD WASH CHANNEL IMPROVEMENTS PROJECT

PROJECT NO. 4700731

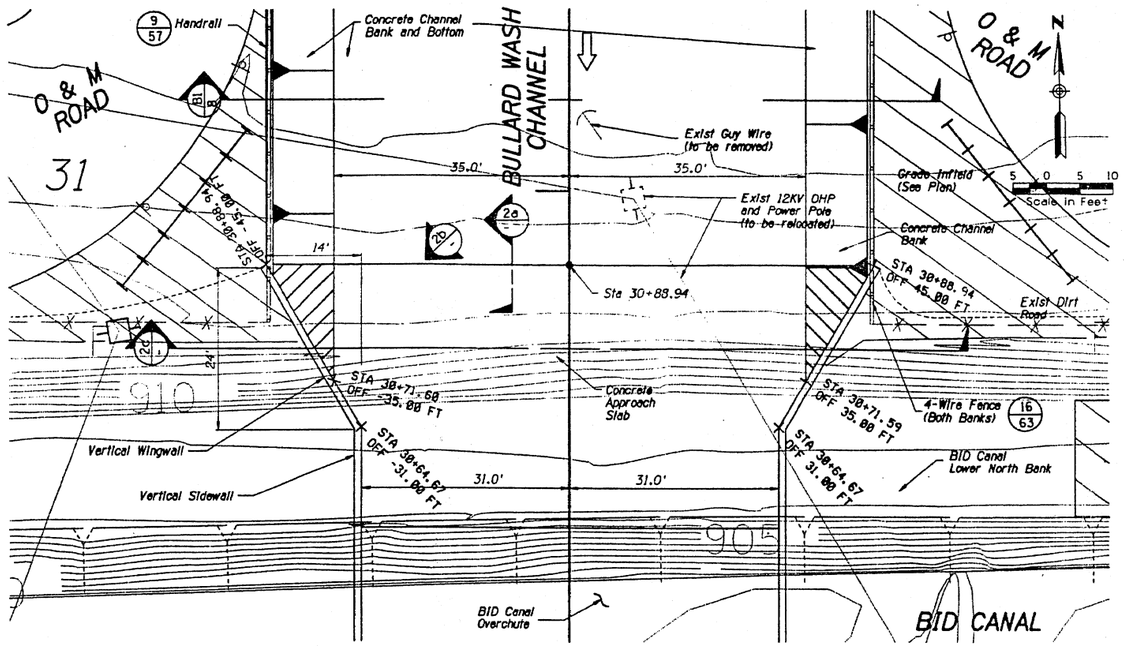
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Sverdrup CORPORATION

DETAIL SHEET
CONCRETE LINING TO GABION CONNECTIONS

SHEET 49 OF 81

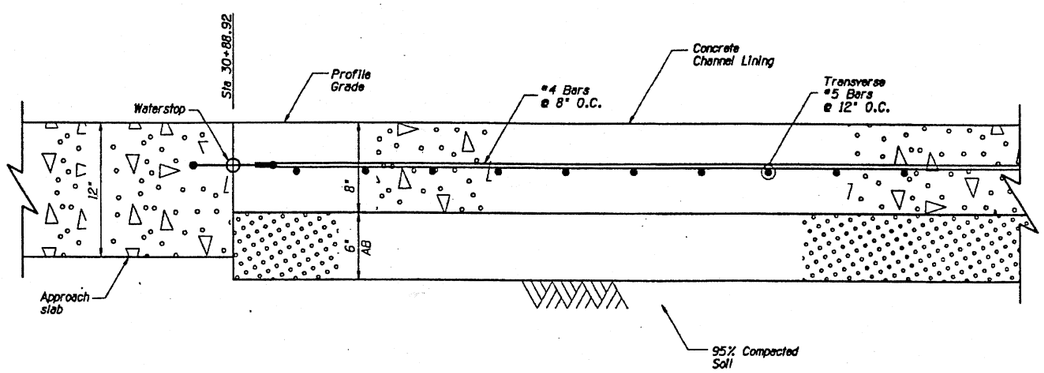
Filename: 4049pp04
Plotted By: Hadgrs Date: 9/01/2001



TRANSITION BID CANAL OVERCHUTE
TO CONCRETE CHANNEL LINING
Sta 30+88 ±

PLAN VIEW (2 / -)

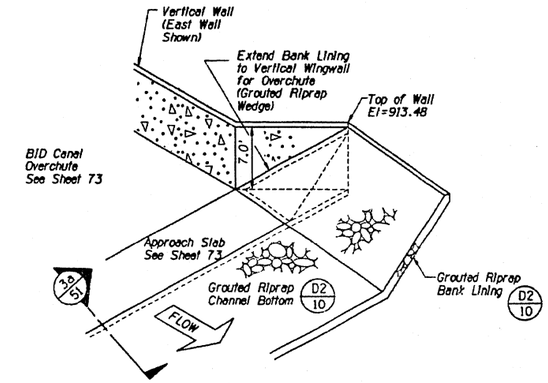
Scale 1"=10'



APPROACH SLAB TO CONCRETE
CHANNEL LINING CONNECTION

SECTION (2a / -)

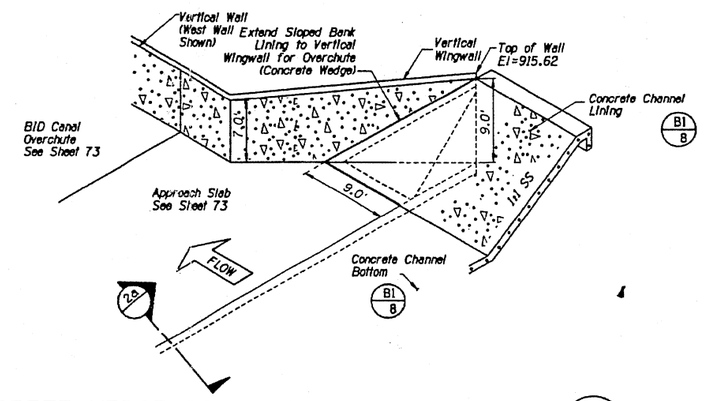
N.T.S.



CONCRETE WEDGE TRANSITION – SOUTH END (2d / -)

PERSPECTIVE VIEW

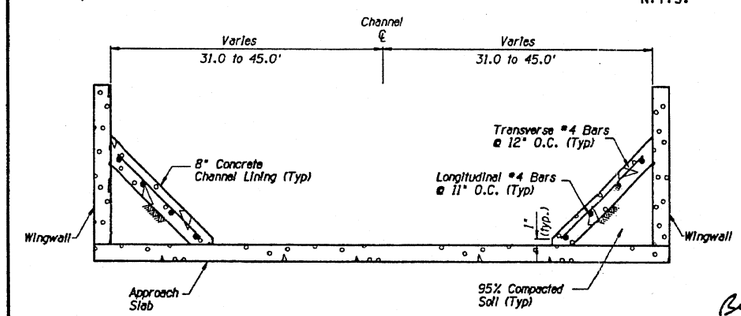
N.T.S.



CONCRETE WEDGE TRANSITION – NORTH END (2b / -)

PERSPECTIVE VIEW

N.T.S.



APPROACH SLAB & CONCRETE WEDGE (2c / -)

SECTION

N.T.S.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

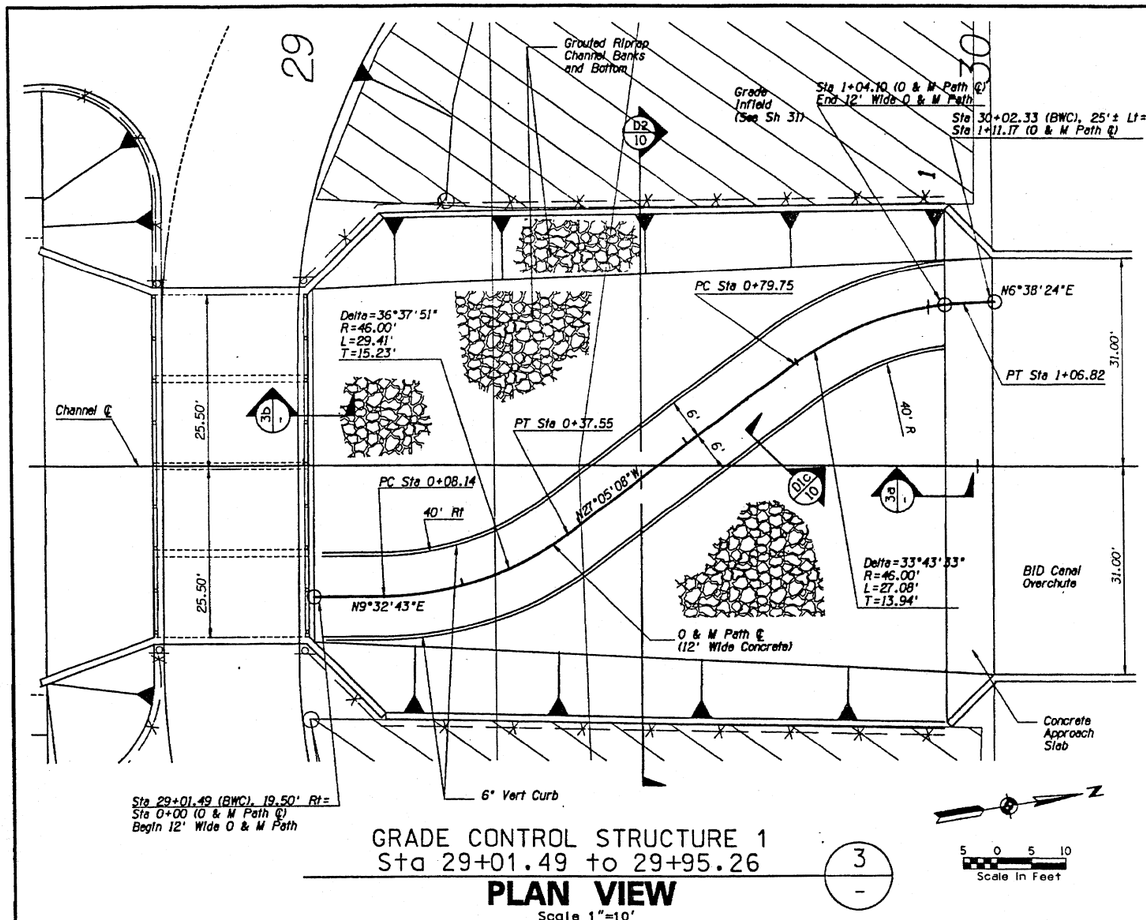
REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD D. OLBERT ARIZONA U.S.A. 4/8/98

Sverdrup CORPORATION

DETAIL-TRANS BID CANAL OVERCHUTE
TO CONCRETE CHANNEL LINING

SHEET 50 OF 81

Filename: 4700731
Plotted By: Edgar Date: 9/10/98

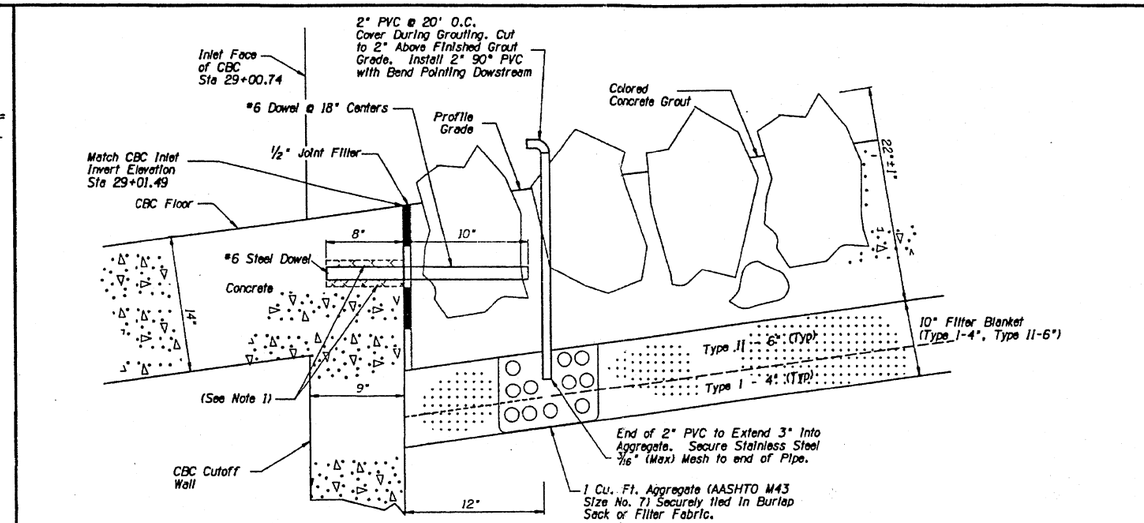


GRADE CONTROL STRUCTURE 1
Sta 29+01.49 to 29+95.26

PLAN VIEW

Scale 1"=10'

3 -



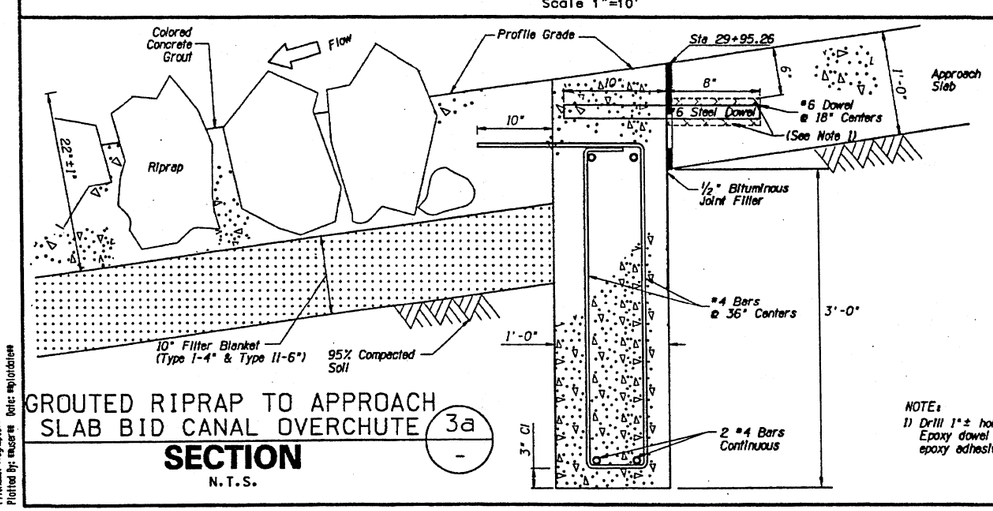
NOTE:
1) Drill 1"± hole, 8" deep, for #6 dowel. Epoxy dowel in hole with an approved epoxy adhesive (see Special Provisions).

CBC TO GROUTED RIPRAP

SECTION

N.T.S.

3b -



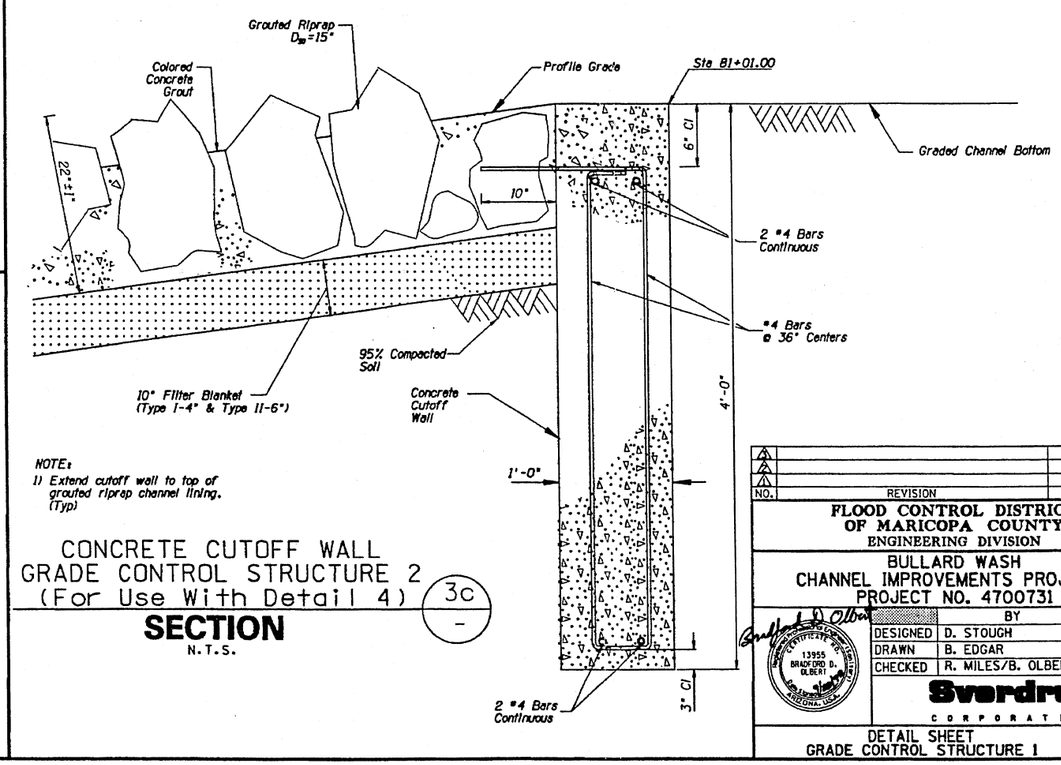
NOTE:
1) Drill 1"± hole, 6" deep, for #6 dowel. Epoxy dowel in hole with an approved epoxy adhesive (see Special Provisions).

GROUTED RIPRAP TO APPROACH SLAB BID CANAL OVERCHUTE

SECTION

N.T.S.

3a -



NOTE:
1) Extend cutoff wall to top of grouted riprap channel lining. (Typ)

CONCRETE CUTOFF WALL
GRADE CONTROL STRUCTURE 2
(For Use With Detail 4)

SECTION

N.T.S.

3c -

NO.	REVISION	BY	DATE

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

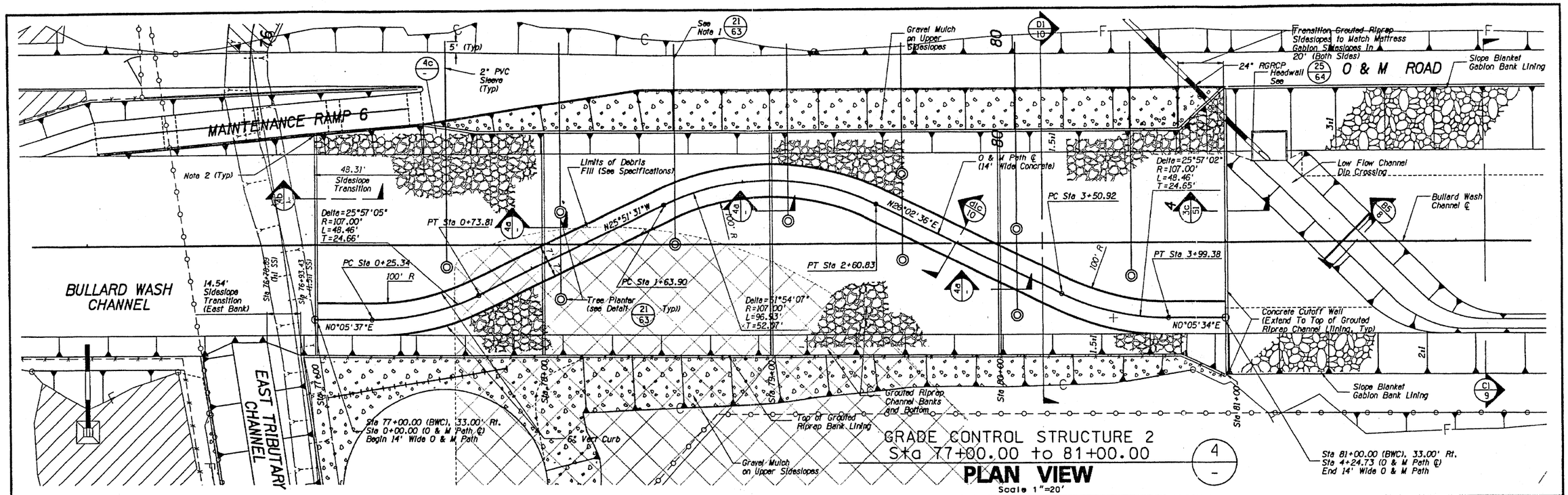
Bradford D. Olbert
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
13955 BRADFORD D. OLBERT
ARIZONA, U.S.A.

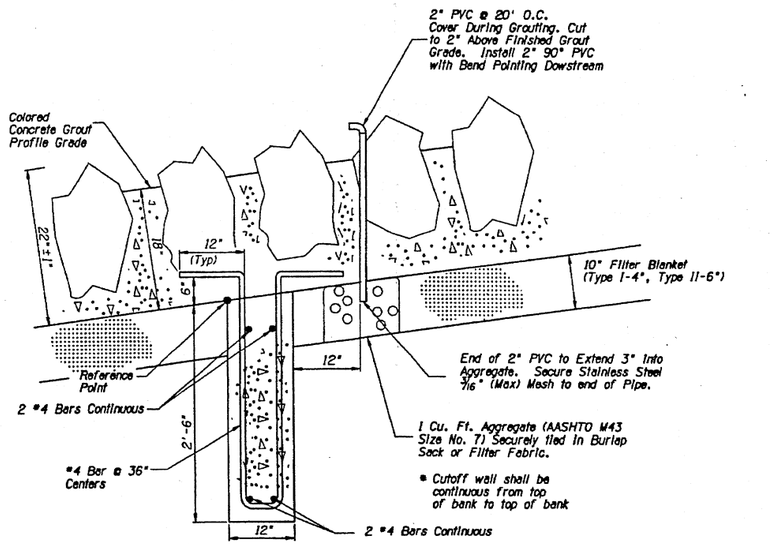
Sverdrup
CORPORATION

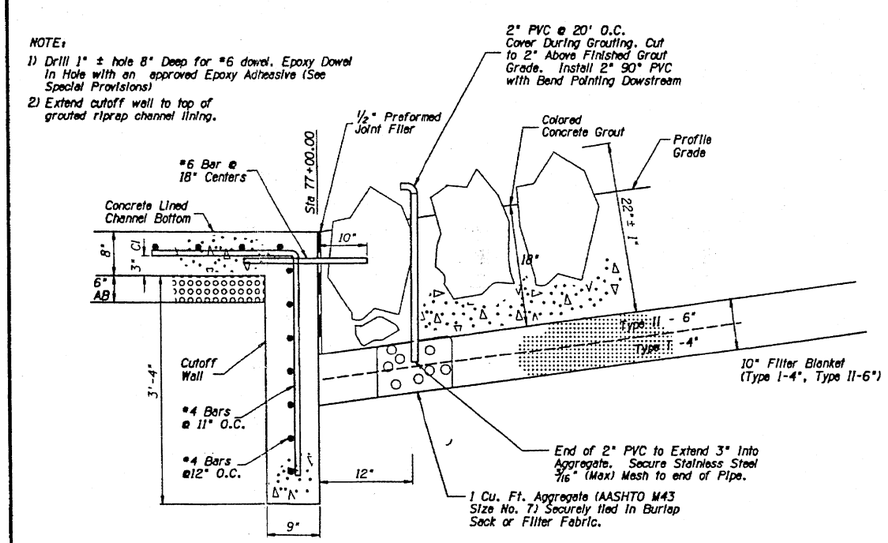
DETAIL SHEET
GRADE CONTROL STRUCTURE 1

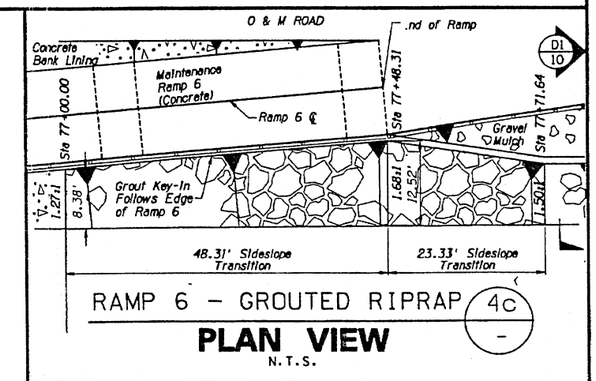
SHEET 51 OF 81

Filename: 4700pcs01
Plotted By: eagle.st Date: 09/10/2018









NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Bradford D. Olbert

Svordrup CORPORATION

DETAIL SHEET
GRADE CONTROL STRUCTURE 2

SHEET 52 OF 81

Filename: M42gcs08
Plotted By: mscarre Date: mplotdate

NOTES:

1) Connect edges of gabions to adjacent baskets (See 5h).

2) Use wire rope fasteners to connect edges of gabion baskets to steel anchor stakes. Use a minimum of 2 fasteners per stake.

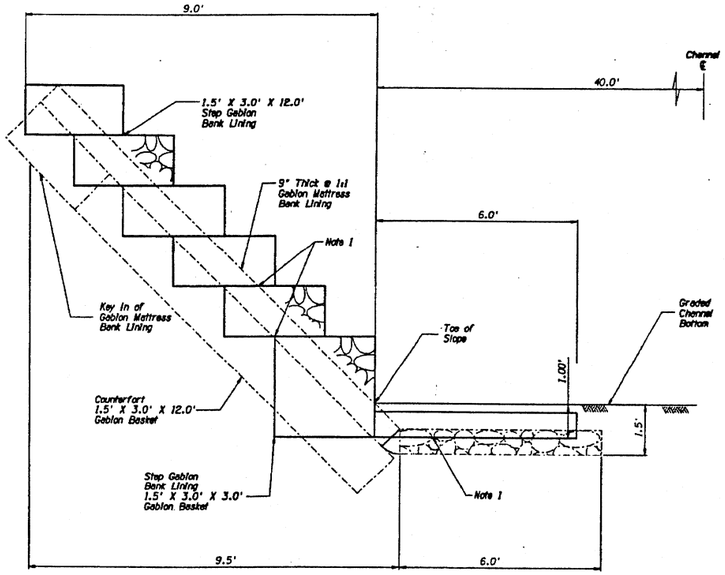
3) Cutoff wall is 6.0' deep at Sta 28+60.

4) Rotate Gabion Mattress Bank Lining above Toe of slope when transitioning from 2:1 SS to 1:1 SS.

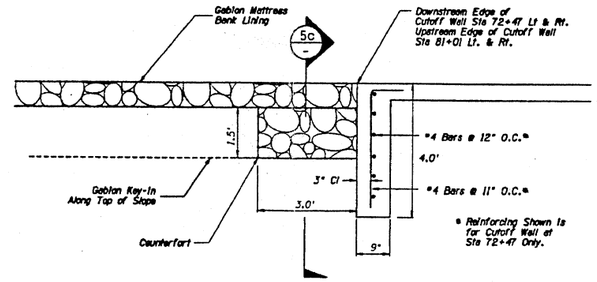
5) Place counterfort perpendicular to ℄ to edge of gabion mattress channel bottom.

6) Place counterfort perpendicular to ℄ channel to toe of slope.

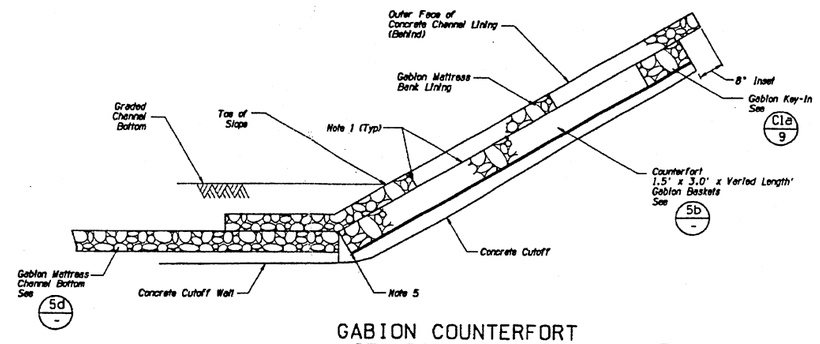
7) Section 5a illustrates Gabion Counterfort at Sta 26+55 Lt. For Sta 119+43 connect edges of gabions along sideslope, apron abuts with concrete cutoff wall.



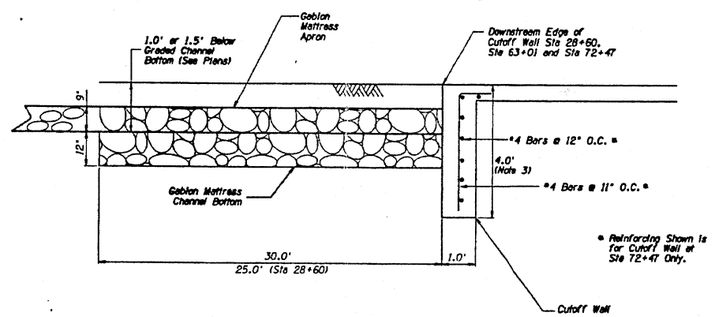
GABION COUNTERFORT
STA 26+55 Lt. & 119+43 Lt. (Note 7) 5a
SECTION
N.T.S.



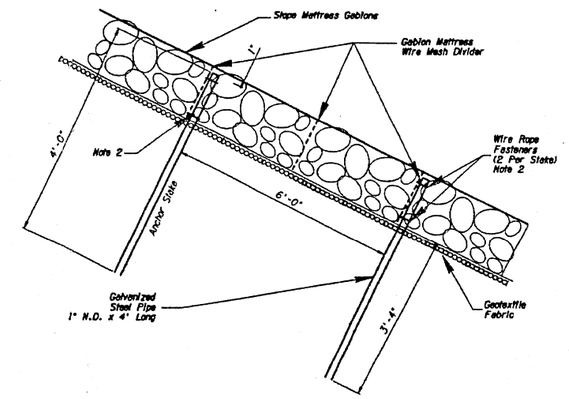
COUNTERFORT AT JUNCTION
OF GABION MATTRESS
TO CONCRETE CUTOFF WALLS 5b
SECTION
N.T.S.



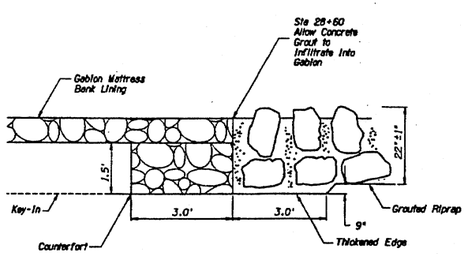
GABION COUNTERFORT
STA 72+47, 81+01 5c
SECTION
N.T.S.



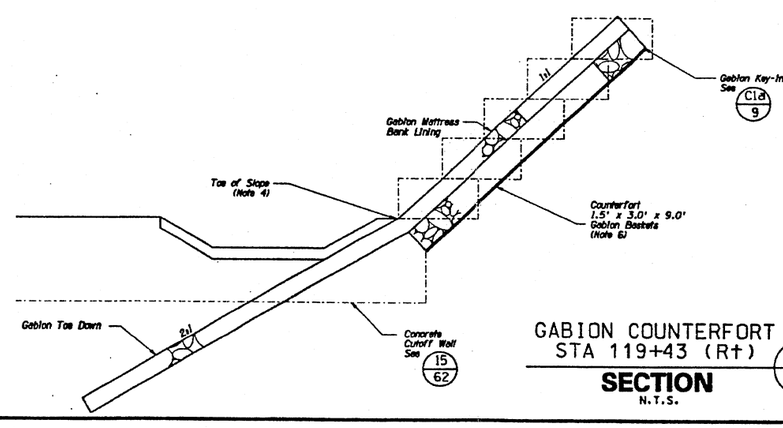
CUTOFF WALL AND
GABION MATTRESS
CHANNEL BOTTOM 5d
SECTION
N.T.S.



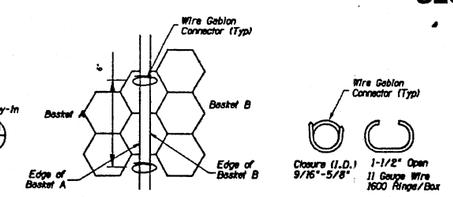
TYPICAL STEEL STAKE ANCHOR 5g
SECTION
N.T.S.



COUNTERFORT AT JUNCTION OF GABION
MATTRESS TO GROUTED RIPRAP 5f
SECTION
N.T.S.



GABION COUNTERFORT
STA 119+43 (Rt) 5e
SECTION
N.T.S.



GABION CONNECTIONS 5h
SECTION
N.T.S.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

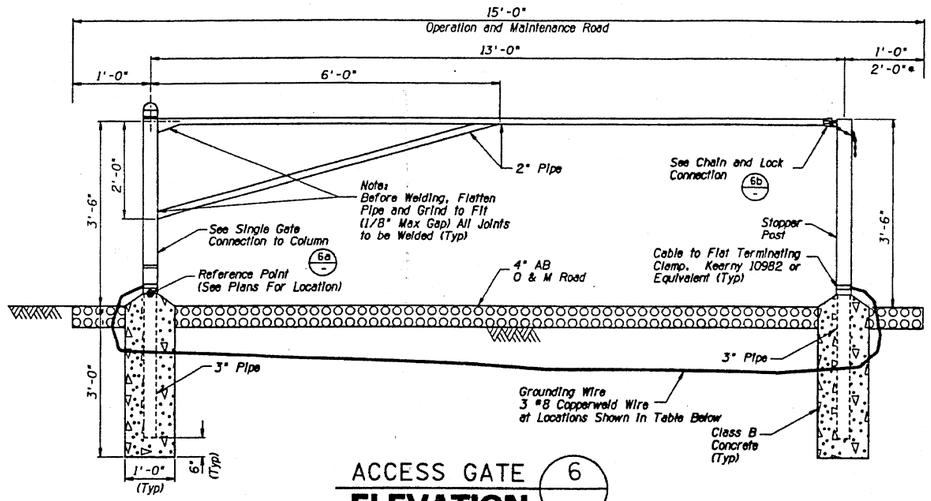
13955 BRADFORD D. OLBERT ARIZONA, U.S.A. 9/8/98

Sverdrup
CORPORATION

DETAIL SHEET
GABION CONNECTIONS, COUNTERFORT

SHEET 53 OF 81

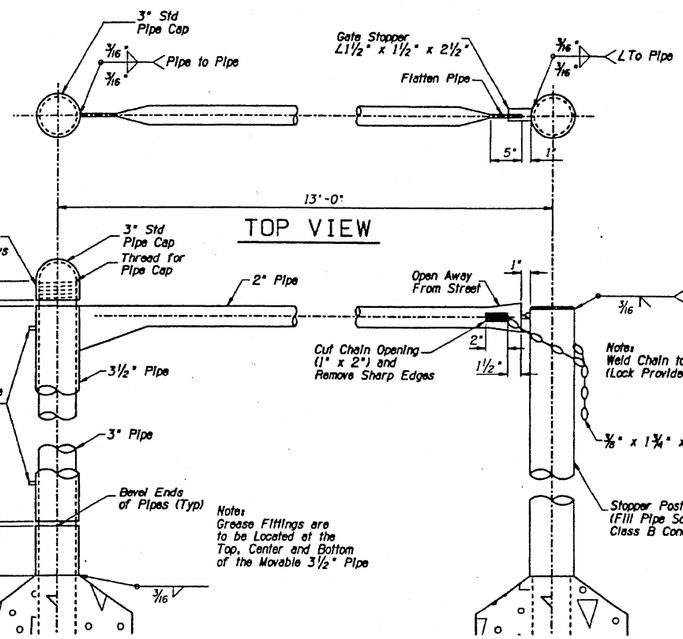
Filename: M4gcrsec4M
Plotted By: mauerm Date: mm/dd/yyyy



ACCESS GATE 6 -
ELEVATION
N.T.S.

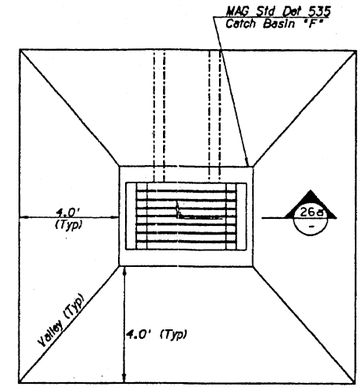
ACCESS GATE GROUNDING WIRE LOCATIONS

Sta 31+40± Lt & Rt (4 Locations)
Sta 62+30± Lt & Rt (3 Locations)
Sta 64+05± Lt & Rt (3 Locations)

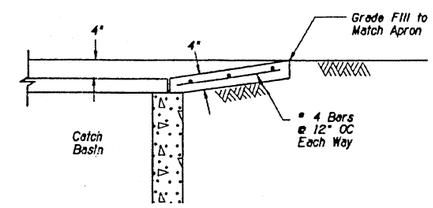


ACCESS GATE CONNECTION TO COLUMN 6a -
DETAIL
N.T.S.

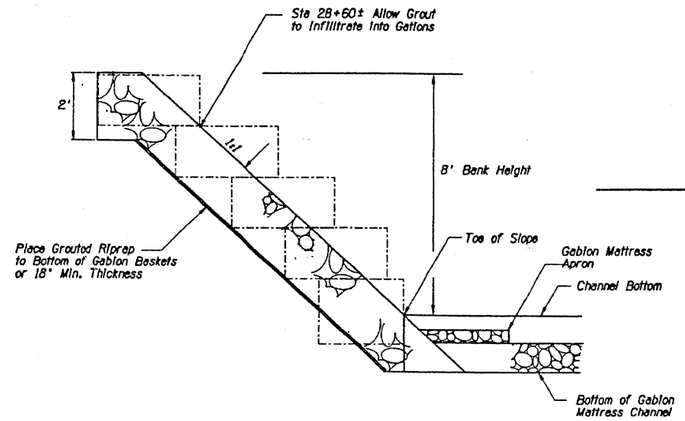
ACCESS GATE STOPPER POST CHAIN AND LOCK CONNECTION 6b -
DETAIL
N.T.S.



CATCH BASIN APRON
Sta 74+80 Rt and 76+00 Rt 26 -
DETAIL
N.T.S.



CATCH BASIN APRON 26a -
SECTION
N.T.S.



JUNCTION OF GABION BASKETS
TO GROUTED RIPRAP
STA 28+60 RT 27 -
SECTION
N.T.S.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Bradford D. Olbert
CERTIFICATE NO. 13955 BRADFORD D. OLBERT ARIZONA, U.S.A.

Sverdrup
CORPORATION

DETAIL SHEET
ACCESS GATE, SINGLE

SHEET 54 OF 81

Filename: 4dtgsgate
Plotted By: mcarter Date: 4pt/dat/ent

SHEET NUMBER	FOUR WIRE FENCE LOCATIONS (7a / -) (16 / 63)
15	Sta 28+61.56, Off 56.45' Lt to
	Through Curve Rt, Radius 16.50'
	Rad Pt 28+61.92, Off 39.95' Lt
	Sta 28+78.42, Off 39.95' Lt to
	Sta 28+78.42, Off 26.50' Lt END
15	Sta 28+78.23, Off 27.87' Rt to
	Through Curve Rt, Radius 17.00'
	Rad Pt 28+61.74, Off 32.00' Rt to
	Sta 28+61.74, Off 49.00' Rt END
15	Sta 28+99.62, Off 27.21' Lt to
	Sta 29+11.17, Off 38.76' Lt to
	Sta 29+95.23, Off 40.07' Lt END
15	Sta 29+00.69, Off 28.15' Rt to
	Sta 29+11.30, Off 38.76' Rt to
	Sta 29+94.90, Off 40.07' Rt END
15	Sta 30+80.23, Off 44.67' Lt to
	Sta 30+80.23, Off 196.50' Lt END
15	Sta 30+80.23, Off 44.66' Rt to
	Sta 30+80.23, Off 140.00' Rt END
20	Sta 74+07.91, Off 50.00' Lt to
	Sta 74+23.00, Off 52.00' Lt to
	Sta 75+00.14, Off 52.00' Lt to
	Sta 75+18.17, Off 50.50' Lt END
20	Sta 74+22.69, Off 49.50' Rt to
	Sta 74+37.70, Off 50.00' Rt to
	Sta 75+17.14, Off 50.00' Rt to
	Sta 75+32.19, Off 48.50' Rt END
20	Sta 75+34.88, Off 50.00' Lt to
	Sta 75+54.19, Off 50.00' Lt to
	Sta 76+01.94, Off 64.89' Lt to
	Sta 76+25.00, Off 65.65' Lt END
20	Sta 75+49.43, Off 48.50' Rt to
	Sta 75+64.67, Off 50.00' Rt to
	Sta 76+42.00, Off 50.00' Rt END
20	Sta 76+94.50 , Off 50.00' Rt to
	Sta 80+79.87 , Off 50.00' Rt to
	Sta 81+00.00 , Off 59.00' Rt END
26	Sta 0+46.08 , Off 30.00' Rt (ETC) to
	Sta 19+53.00, Off 30.00' Rt (ETC) END
21	Sta 90+99.17, Off 100.00 Lt to
	Sta 117+35.10, Off 100.00' Lt to
	Sta 118+00.00, Off 87.60' Lt END
24	Sta 119+32.52, Off 62.67' Lt to
	Sta 119+44.50, Off 53.00' Lt to
	Sta 122+00.00, Off 53.00' Lt to
	Sta 123+50.62, Off 73.67' Lt to
	Sta 123+42.89, Off 75.15' Rt to
	Sta 119+42.97, Off 75.00' Rt END

SHEET NUMBER	HANDRAIL LOCATIONS (7b / -) (9 / 57)
15	Sta 30+80.23, Off 44.67' Lt to
	Sta 31+36.48, Off 44.67' Lt to
	Sta 32+66.37, Off 35.70' Lt END
15	Sta 32+93.65, Off 73.94' Lt to
	Sta 33+35.47, Off 70.27' Lt to
	Sta 33+78.85, Off 74.76' Lt END
15-18	Sta 31+37.47, Off 61.56' Lt to
	Sta 32+69.85, Off 61.46' Lt to
	Sta 33+37.00, Off 55.90' Lt to
	Sta 33+86.00, Off 60.66' Lt to
	Sta 58+50.00, Off 60.66' Lt to
	Sta 59+00.00, Off 58.66' Lt to
	Sta 60+23.60, Off 58.66' Lt to
	Sta 60+72.29, Off 73.66' Lt to
	Sta 62+21.38, Off 73.66' Lt END
15	Sta 30+80.23, Off 44.66' Rt to
	Sta 31+69.82, Off 45.58' Rt to
	Sta 32+65.84, Off 35.67' Rt END
15-18	Sta 31+50.48, Off 67.69' Rt to
	Sta 32+65.80, Off 60.66' Rt to
	Sta 33+27.96, Off 55.66' Rt to
	Sta 33+85.97, Off 60.66' Rt to
	Sta 58+50.00, Off 60.66' Rt to
	Sta 59+00.00, Off 58.66' Rt to
	Sta 62+28.57, Off 58.66' Rt to
	Through Curve Rt, Radius 45.34'
	Rad Pt Sta 62+28.42 , Off 104.00 Rt to
	Sta 62+73.00, Off 95.74' Rt to
	Sta 62+90.05, Off 187.83 Rt END
18	Sta 60+76.18, Off 40.58' Lt to
	Sta 62+29.60, Off 58.61' Lt to
	Through Curve Lt, Radius 45.33'
	Rad Pt Sta 62+24.31 , Off 103.63' Lt
	Sta 62+68.50, Off 93.54' Lt to
	Sta 62+90.03, Off 187.82' Lt END
18-19	Sta 63+41.79, Off 188.71 Lt to
	Sta 63+63.44, Off 93.94' Lt to
	Through Curve Lt, Radius 45.34'
	Rad Pt Sta 64+07.64 , Off 104.04' Lt to
	Sta 64+02.27, Off 59.02' Lt to
	Sta 65+56.17, Off 40.66' Lt END

SHEET NUMBER	HANDRAIL LOCATIONS (7b / -) (9 / 57)
19	Sta 64+13.85, Off 73.66' Lt to
	Sta 65+60.22, Off 73.66' Lt to
	Sta 66+10.74, Off 58.66' Lt to
	Sta 72+47.00, Off 58.66' Lt to
	Sta 72+76.74, Off 50.66' Lt to
	Sta 72+91.93, Off 49.16' Lt END
19	Sta 63+46.00, Off 187.81' Rt to
	Sta 63+64.54, Off 95.09' Rt to
	Through Curve Rt, Radius 45.33'
	Rad Pt Sta 64+08.99 , Off 103.99' Rt to
	Sta 64+09.00, Off 58.66' Rt to
	Sta 72+47.00, Off 58.66' Rt to
	Sta 72+76.69, Off 50.66' Rt to
	Sta 72+91.40, Off 50.66' Rt to
	Sta 73+06.31, Off 49.17' Rt END
20	Sta 76+26.00, Off 65.65' Lt to
	Sta 77+47.85, Off 69.67' Lt END
20-21	Sta 76+04.89, Off 40.67' Lt to
	Sta 77+48.31, Off 53.19' Lt to
	Sta 78+43.11, Off 67.67' Lt to
	Sta 81+00.00, Off 67.67' Lt END
21	Sta 89+00.00, Off 67.67' Lt to
	Sta 90+00.00, Off 58.67' Lt to
	Sta 92+00.00, Off 58.67' Lt to
	Sta 93+22.41, Off 40.66' Lt END
21	Sta 91+96.49, Off 76.76' Lt to
	Sta 93+23.98, Off 72.69' Lt to
	Sta 93+71.23, Off 67.66' Lt END
22	Sta 100+00.00, Off 67.66' Lt to
	Sta 101+00.00, Off 58.66' Lt to
	Sta 102+00.00, Off 58.66' Lt to
	Sta 103+00.00, Off 67.66' Lt END
23	Sta 110+00.00, Off 67.66' Lt to
	Sta 111+00.00, Off 58.66' Lt to
	Sta 112+00.00, Off 58.66' Lt to
	Sta 113+00.00, Off 67.66' Lt END
24	Sta 116+49.81, Off 72.33' Lt to
	Sta 117+45.13, Off 77.50' Lt END
24	Sta 116+10.30, Off 40.65' Lt to
	Sta 117+46.82, Off 58.40' Lt (PC & Δ Pt)
	Through Curve Lt, Radius 164.44'
	Rad Pt Sta 117+29.23, Off 223.00' Lt to
	Sta 118+82.69, Off 62.66' Lt END

SHEET NUMBER	CHAIN LINK FENCE LOCATIONS (7c / -) MAG Std Det 160
26	Sta 1+05.31 , Off 197.73 Lt (ETC) to
	Sta 2+27.67 , Off 50.00' Lt (ETC) to
	Sta 19+87.41, Off 53.75' Lt (ETC) to
	Sta 19+92.04, Off 23.95' Lt (ETC) to
	Sta 21+66.65, Off 22.92' Lt (ETC) to
	Sta 22+69.85, Off 24.00' Lt (ETC) END
20	Sta 76+21.82, Off 145.00' Lt to
	Sta 76+25.00, Off 65.65' Lt END
20	Sta 78+76.00, Off 75.00' Rt to
	Sta 119+42.97, Off 75.00' Rt END

SHEET NUMBER	BARRICADE LOCATIONS (7d / -) MAG Std Det 130 Type B
15	Sta 29+86.50 , Off 127.80' Lt to
	Sta 29+99.36 , Off 149.26' Lt END 25'
15	Sta 29+80.14 , Off 141.93' Rt to
	Sta 29+92.08 , Off 163.91' Rt END 25'
15	Sta 30+85.48 , Off 66.56' Lt to
	Sta 31+09.07 , Off 47.86' Lt END 30'
15	Sta 30+86.78 , Off 74.58' Rt to
	Sta 31+10.34 , Off 55.85' Rt END 30'
20	Sta 77+09.18 , Off 67.00' Rt to
	Sta 77+53.59 , Off 59.67' Rt END
24	Sta 119+02.52, Off 63.94' Lt to
	Sta 119+32.67, Off 64.02' Lt to 60'
	Sta 119+64.39, Off 58.73' Lt END
26	Sta 0+72.80 , Off 30.00' Lt (ETC) to
	Sta 0+72.80 , Off 110.00'Lt (ETC) END 80'

NOTES:

1) Fences and handrail begin at station shown. Ending station of a particular fence reach is denoted "END"
2) Sheet number pertains to the sheet in the plan set on which the fence is located. A range of sheet numbers indicates that a fence reach extends over multiple plan sheets.
3) Fences or Barricades located along the East Tributary Channel are denoted (ETC) after the Offset.

NO.	REVISION	BY	DATE
3			
2			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT	9/08/98

CERTIFICATE NO. 13955 BRADFORD D. OLBERT ARIZONA, U.S.A.

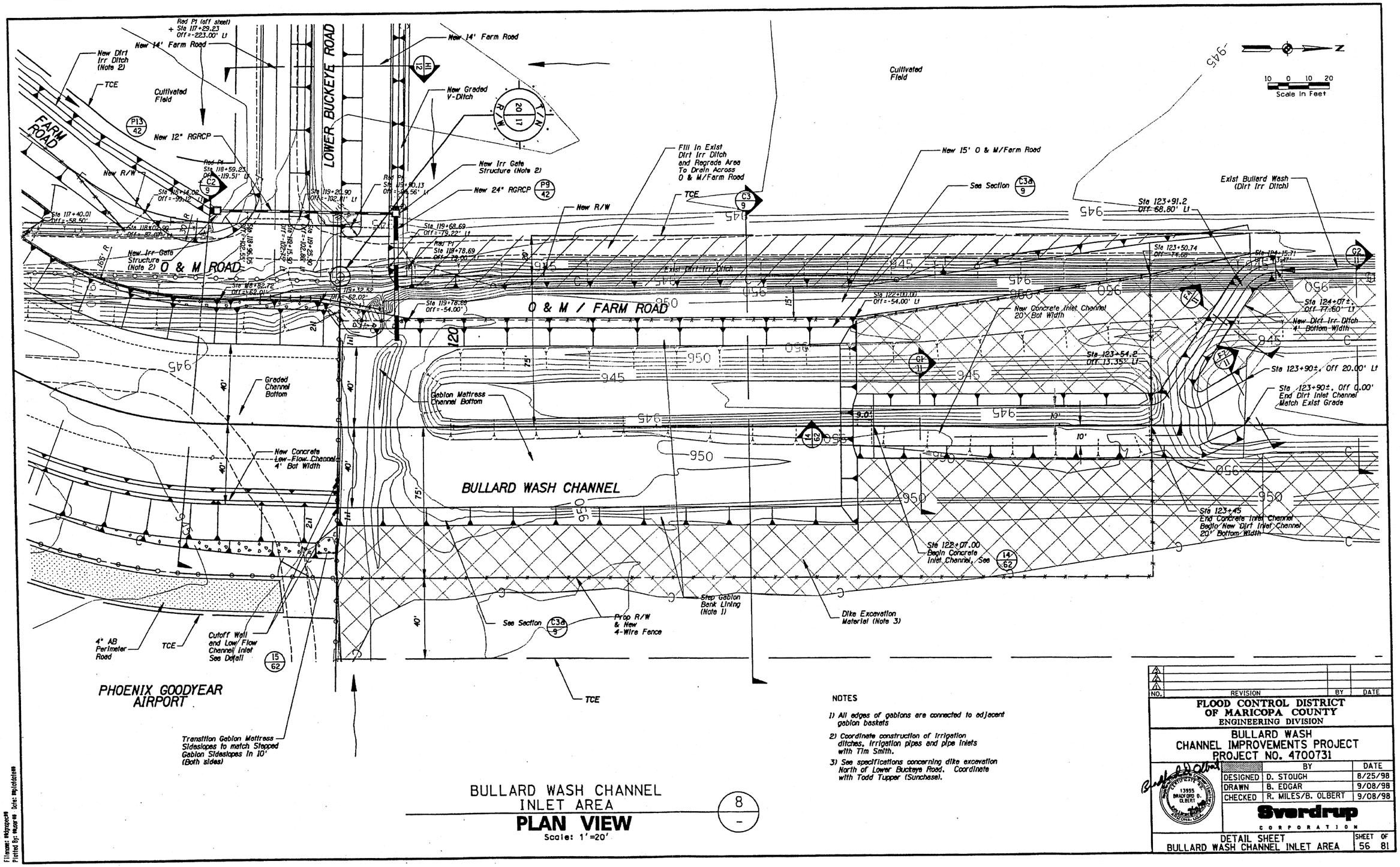
Sverdrup CORPORATION

DETAIL SHEET
FENCE, HANDRAIL, AND BARRICADE SUMMARY

SHEET 55 OF 81

FENCE, HANDRAIL, AND BARRICADE SUMMARY

Filename: MQ55pc04
Plotted By: [illegible] Date: [illegible]



NOTES

1) All edges of gabions are connected to adjacent gabion baskets

2) Coordinate construction of irrigation ditches, irrigation pipes and pipe inlets with Tim Smith.

3) See specifications concerning dike excavation North of Lower Buckeye Road. Coordinate with Todd Tupper (Sunchase).

BULLARD WASH CHANNEL
INLET AREA

PLAN VIEW

Scale: 1"=20'

8
–

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

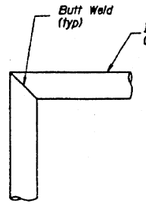
REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD D. OLBERT ARIZONA U.S.A.

Sverdrup
CORPORATION

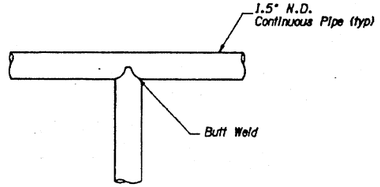
DETAIL SHEET
BULLARD WASH CHANNEL INLET AREA

SHEET 56 OF 81

Filename: BWXgpcs08
Plotted By: BWaxe08 Date: 09/08/98



TOP RAIL CONNECTION TO POST
SECTION (9a)
N.T.S.



TOP RAIL CONNECTION TO POST
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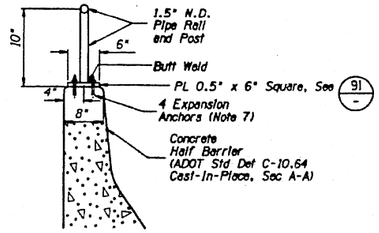
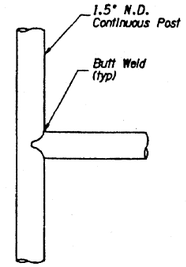
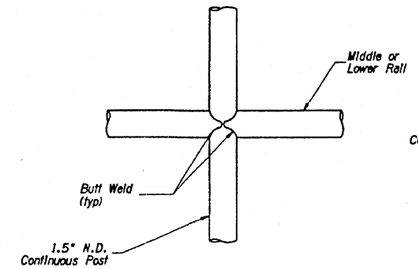


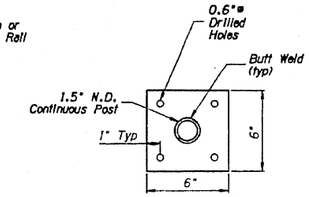
HANDRAIL POST ON CONCRETE BARRIER
SECTION (9c)
N.T.S.



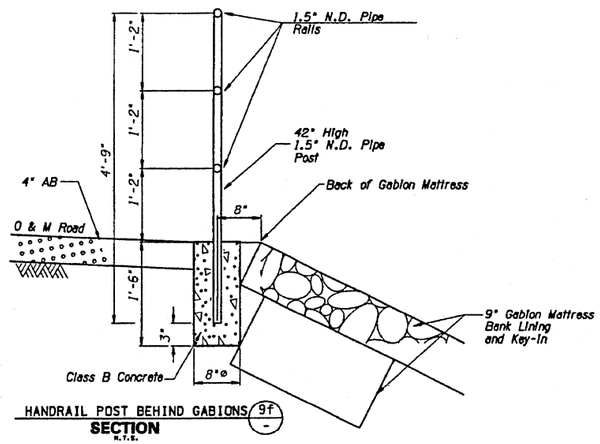
MIDDLE OR LOWER RAIL CONNECTION TO POST
SECTION (9d)
N.T.S.



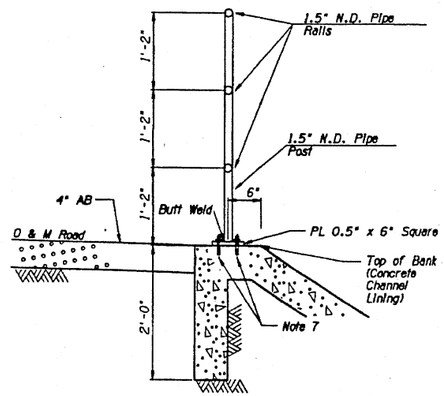
MIDDLE OR LOWER RAIL CONNECTION TO POST
SECTION (9e)
N.T.S.



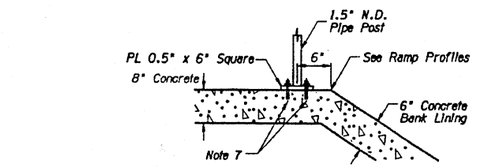
ANCHOR PLATE
SECTION (9l)
N.T.S.



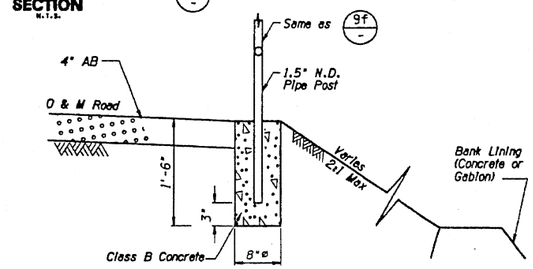
HANDRAIL POST BEHIND GABIONS
SECTION (9f)
N.T.S.



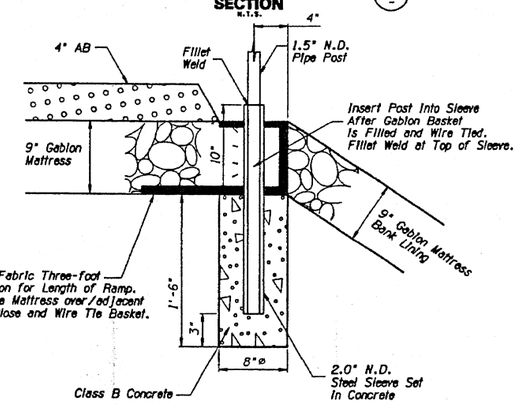
HANDRAIL POST ON CONCRETE CHANNEL LINING
SECTION (9g)
N.T.S.



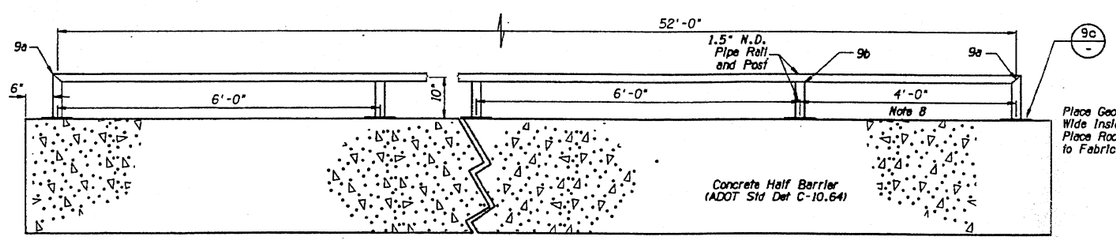
HANDRAIL POST ON CONCRETE RAMP
SECTION (9h)
N.T.S.



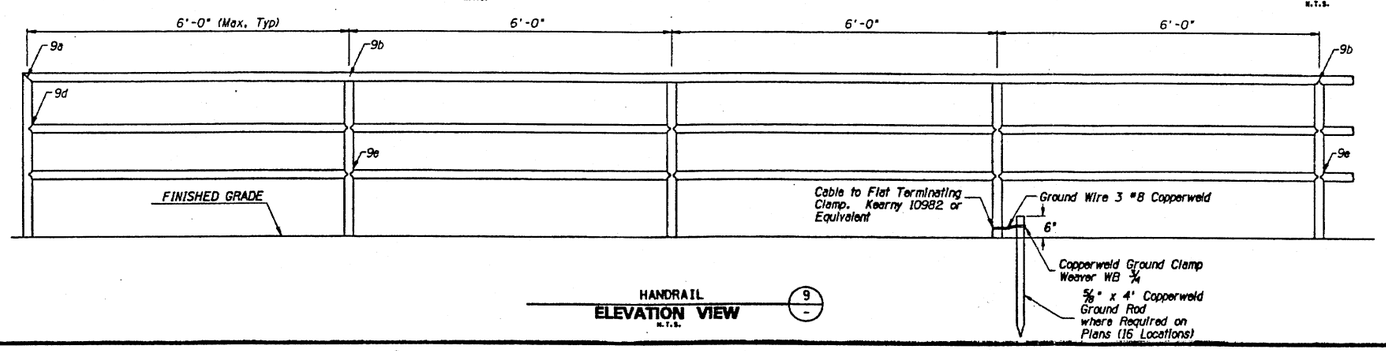
HANDRAIL POST ON SIDESLOPE ABOVE BANK
SECTION (9i)
N.T.S.



HANDRAIL POST ON GABION MATTRESS RAMP
SECTION (9j)
N.T.S.



HANDRAIL ON CONCRETE BARRIER
SECTION (9k)
N.T.S.



HANDRAIL
ELEVATION VIEW (9)
N.T.S.

NOTES:

1) All rails, posts, and fittings shall be steel, conforming to all requirements of AASHTO M 181 For Grade 2 Pipe. 1.5" N.D. pipe is schedule 40 (0.145" wall thickness), 2.0" N.D. pipe is schedule 80 (0.218" wall thickness) (per ASTM A-53).
2) Fittings and rails shall be welded with continuous welds. All cut edges shall be ground smooth and all visible welds when completed shall present a smooth, even appearance.
3) Paint all exposed surfaces with one coat of No. 1 paint and two finish coats of light brown.
4) Spacing of posts shall be max. 6', or less as required in the field.
5) Contractor shall submit working drawings for approval. Working drawings shall consist of shop drawings and field horizontal and vertical installation.
6) All dimensions are in inches, unless noted otherwise.
7) Four stainless steel expansion anchors, 0.5"ø x 5" long, embedded 3.5".
8) Set posts at 6-foot centers, except at one end segment which varies in length as shown in Detail 9k.

SEE SHEET 55 FOR HANDRAIL STATION/ OFFSET DATA.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

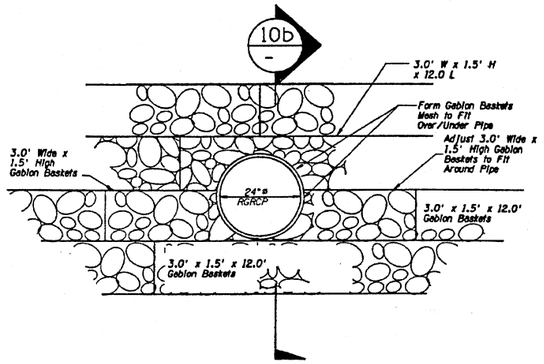
Bradford D. Olbert
CERTIFICATE NO. 13955 BRADFORD D. OLBERT REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

Sverdrup CORPORATION

DETAIL SHEET
10" & 42" HANDRAILS

SHEET 57 OF 81

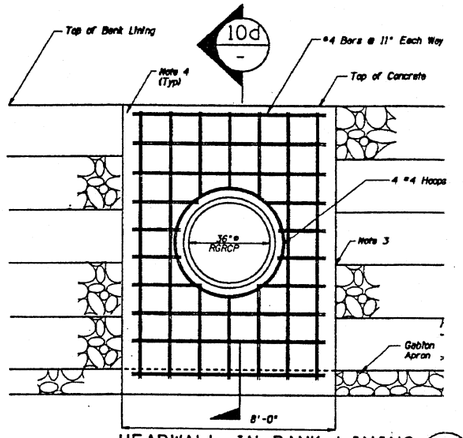
Filename: mkgrgspec.dgn
Plotted By: mkgarrett Date: mkplotdate



24" CULVERT OUTLET IN STEP GABION (10a)

ELEVATION

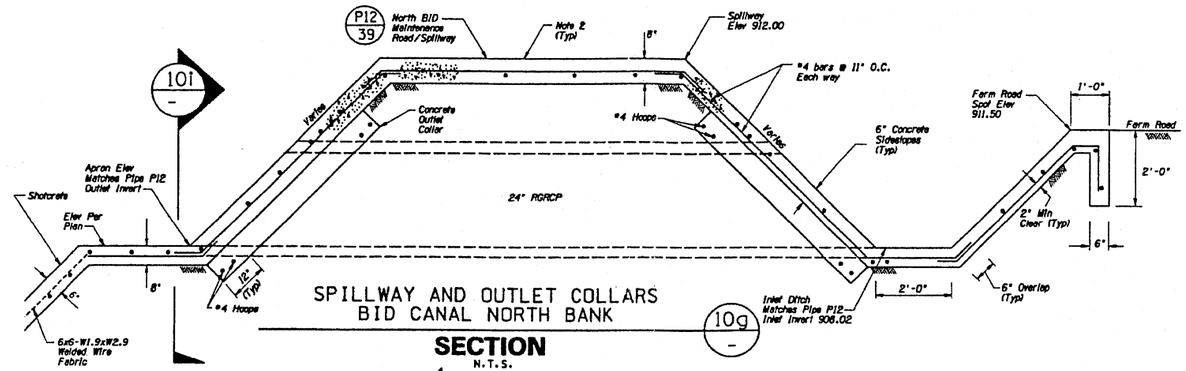
N.T.S.



HEADWALL IN BANK LINING (10c)

ELEVATION

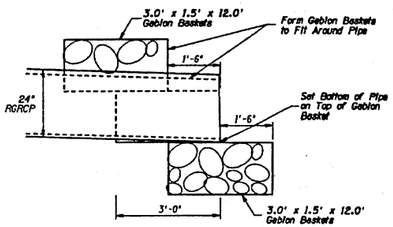
N.T.S.



SPILLWAY AND OUTLET COLLARS
BID CANAL NORTH BANK (10g)

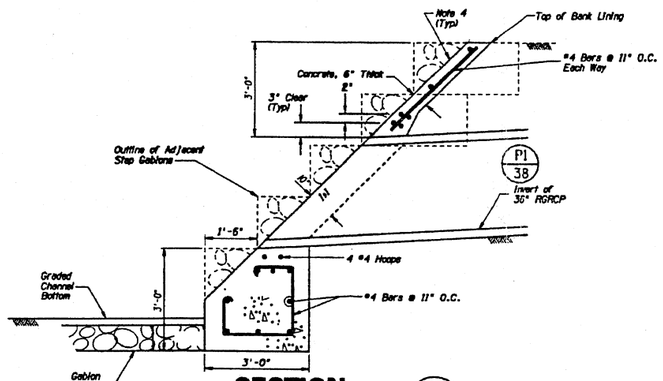
SECTION

N.T.S.



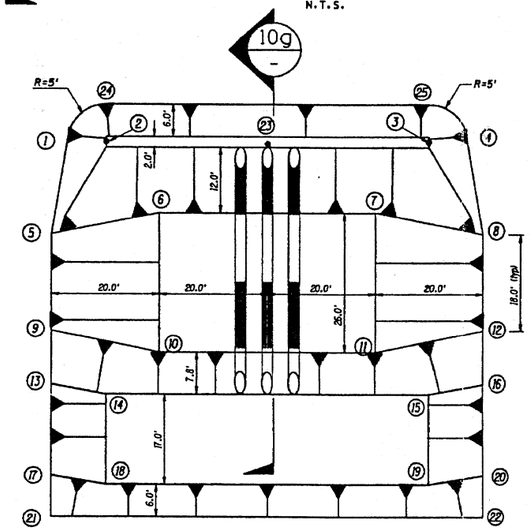
SECTION (10b)

N.T.S.



SECTION (10d)

N.T.S.



PIPE 2 SPILLWAY (10h)

PLAN VIEW

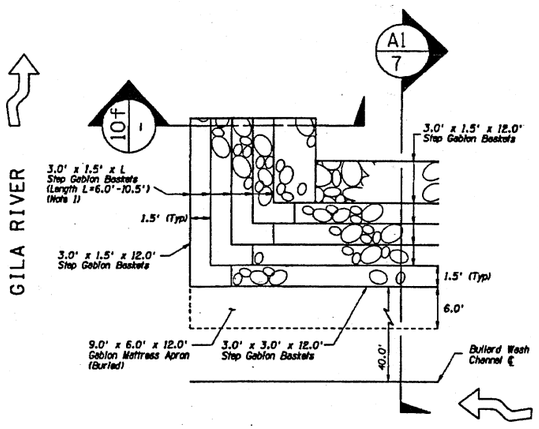
N.T.S.

SPILLWAY STATION/OFFSET TABLE

POINT NUMBER	BULLARD WASH STATION	OFFSET (Ft)	ELEV
1	31+17.58	143.09	911.55
2	31+16.41	150.00	908.05
3	31+16.42	210.00	908.05
4	31+16.30	217.00	911.55
5	30+99.23	140.00	913.35
6	31+03.23	160.00	912.00
7	31+03.23	200.00	912.00
8	30+99.23	220.00	913.35
9	30+81.23	140.00	913.35
10	30+77.23	160.00	911.64
11	30+77.24	200.00	911.64
12	30+81.23	220.00	913.35
13	30+71.20	140.26	908.68
14	30+69.45	150.00	907.79
15	30+69.46	210.00	907.79
16	30+71.20	219.74	908.68
17	30+54.22	140.26	908.68
18	30+52.48	150.00	907.71
19	30+52.48	210.00	907.71
20	30+54.22	219.74	908.68
21	30+46.47	140.00	903.50
22	30+46.48	220.00	903.50
23	31+15.42	180.00	908.02
24	31+23.41	150.00	911.55
25	31+23.41	210.00	911.55

NOTES

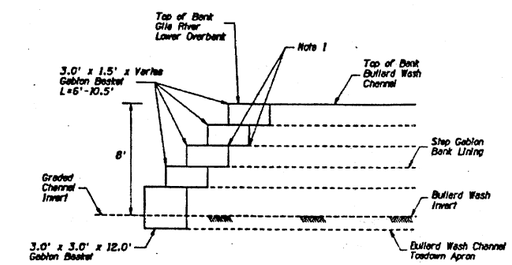
1) Attach edges of gabion baskets to adjacent gabion baskets (Typ)
2) Apply rake finish on spillway, and all exposed concrete surfaces.
3) Adjust length of gabion baskets to be flush w/edge of headwall
4) Apply broom finish on headwalls.



STEP GABION BANK LINING TERMINUS (10e)

PLAN VIEW

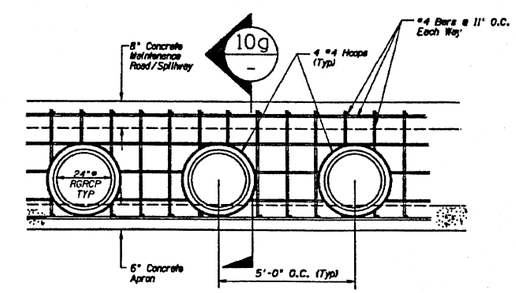
N.T.S.



STEP GABION BANK LINING TERMINUS (10f)

SECTION

N.T.S.



REBAR PLACEMENT DETAIL
FOR SPILLWAY AT BID CANAL (10i)

SECTION

N.T.S.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

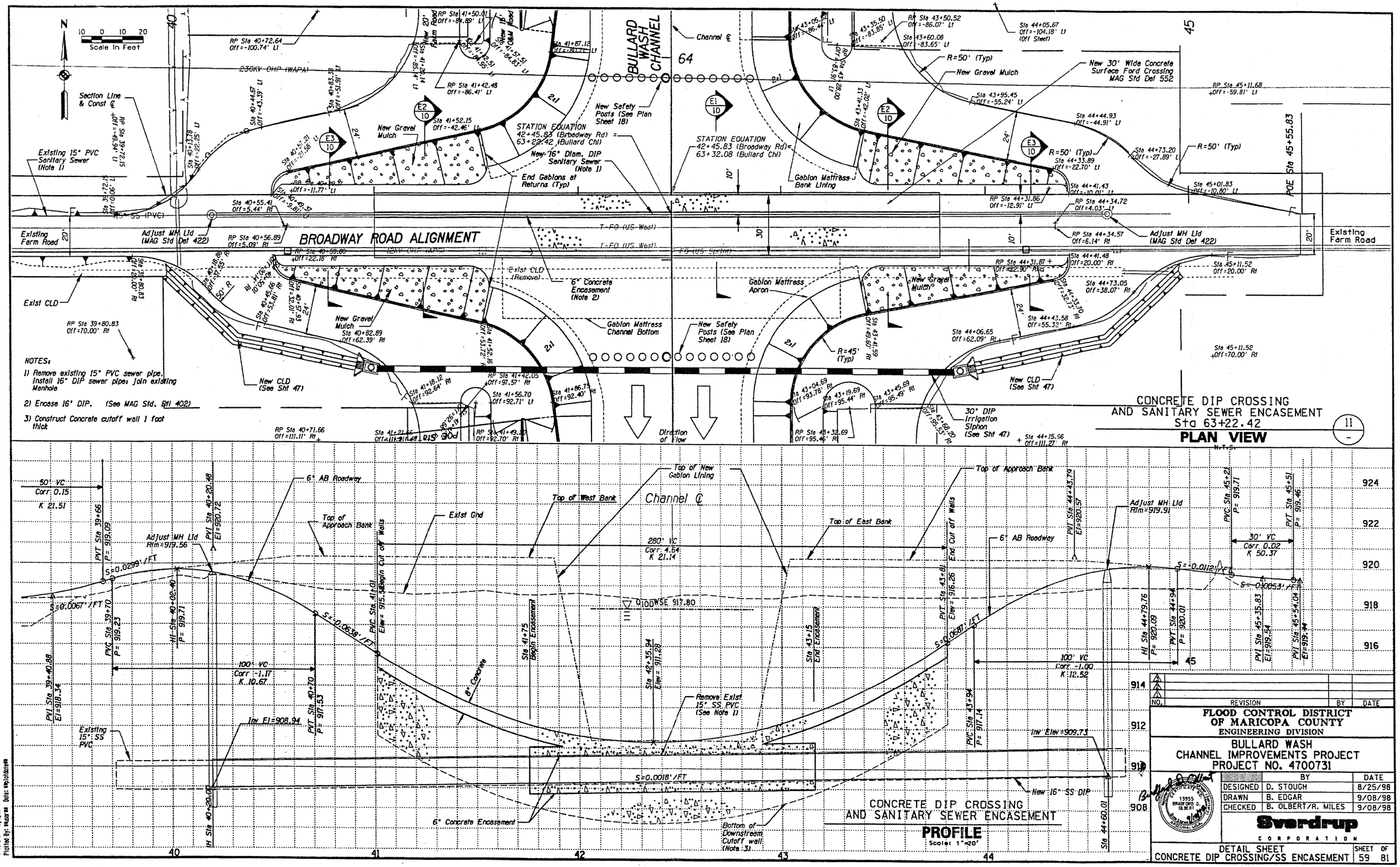
BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Sverdrup CORPORATION

DETAIL SHEET GABION TERMINUS and SPECIAL PIPE OUTLETS

SHEET 58 OF 81



NO.	REVISION	BY	DATE
1			
2			
3			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

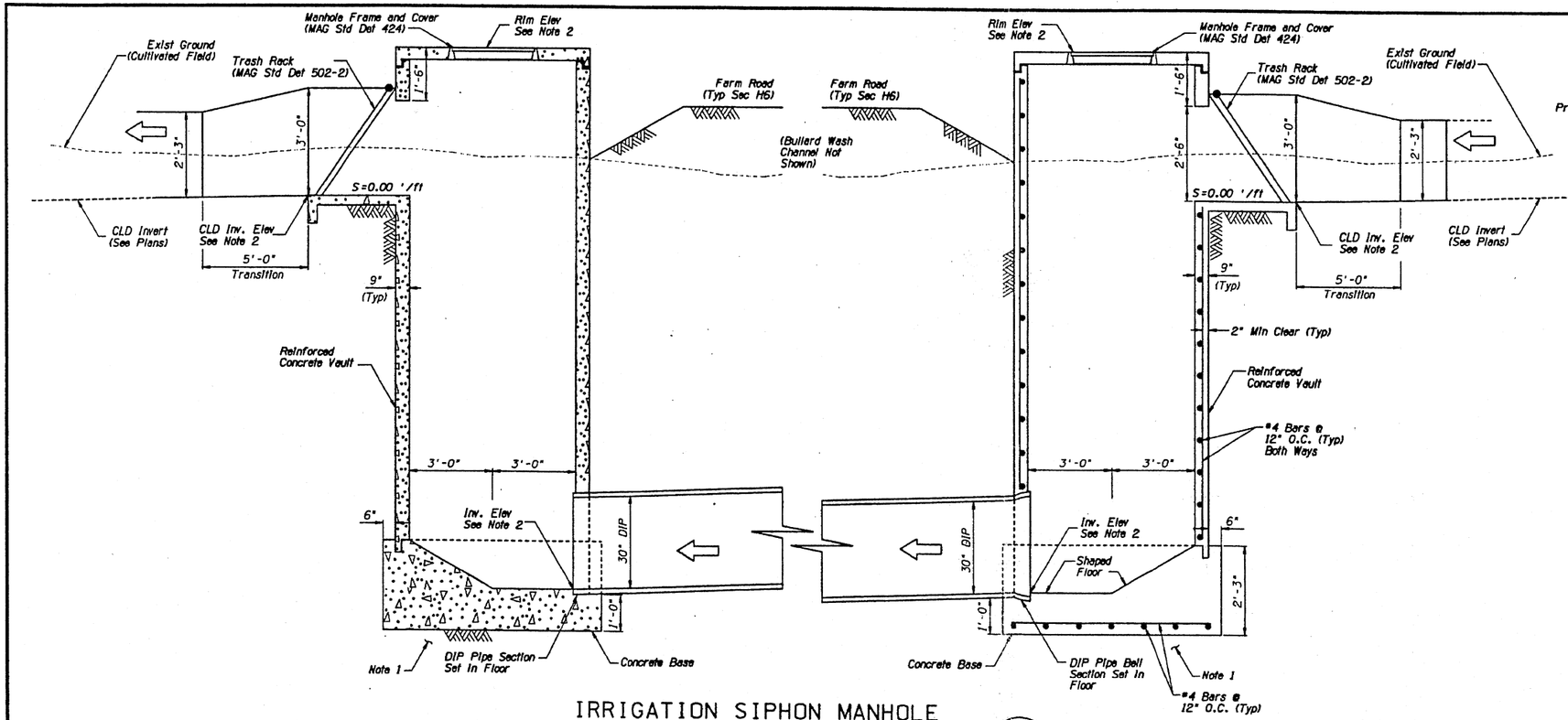
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	B. OLBERT/R. MILES	9/08/98

Sverdrup CORPORATION

DETAIL SHEET
CONCRETE DIP CROSSING/SS ENCASEMENT

SHEET 59 OF 81

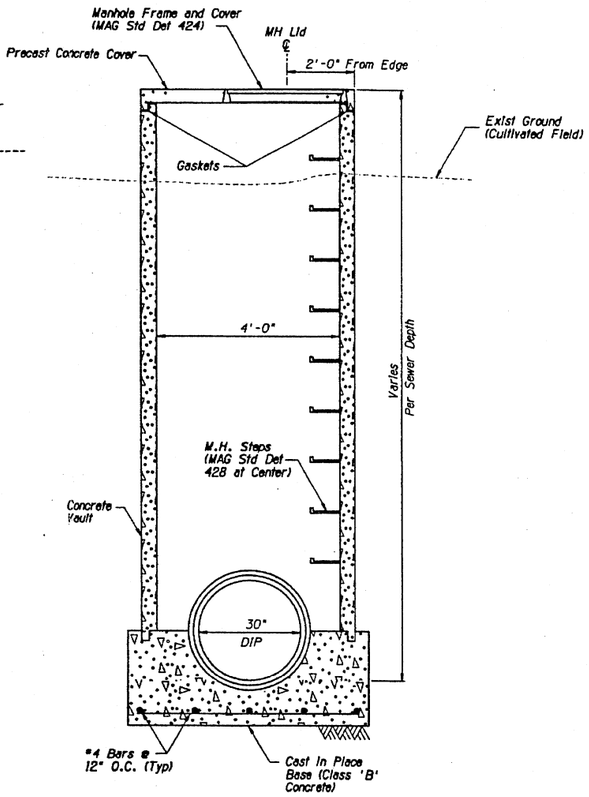
Filename: 4400gpc48
Plotted By: MAGGAN Date: 4Sep1998 Time



IRRIGATION SIPHON MANHOLE
(Modified MAG Std Det 429)

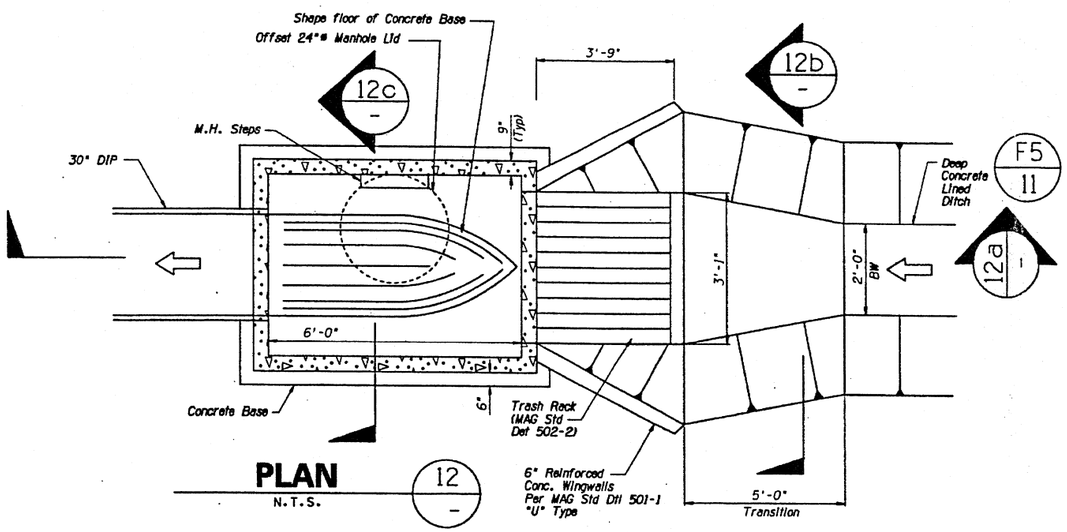
SECTION 12a

N.T.S.



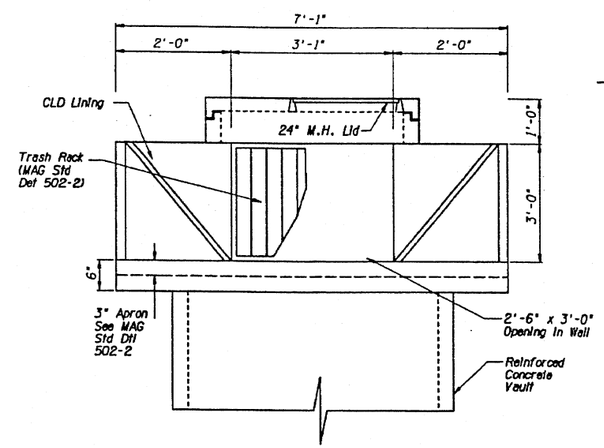
SECTION 12c

N.T.S.



PLAN 12

N.T.S.



ELEVATION 12b

N.T.S.

NOTES:

1) Compact subgrade under manhole to 95%.

2) See siphon plan & profile sheets for invert elev., rim elev. and CLD invert elev.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

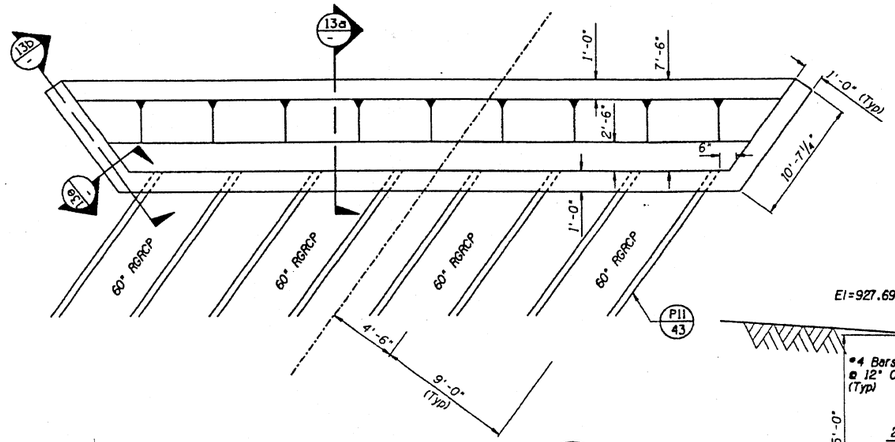
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Sverdrup CORPORATION

DETAIL SHEET
IRRIGATION SIPHON MANHOLE

SHEET 60 OF 81

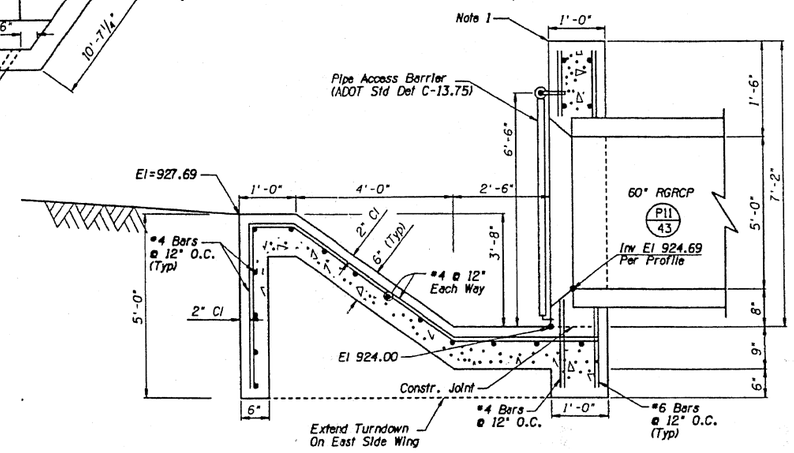
Filename: mdgrspcm
Plotted By: mkacere Date: mplotdate



DROP INLET HEADWALL, PIPE 11 (13 / -)

PLAN VIEW

N.T.S.



DROP INLET HEADWALL (13a / -)

SECTION

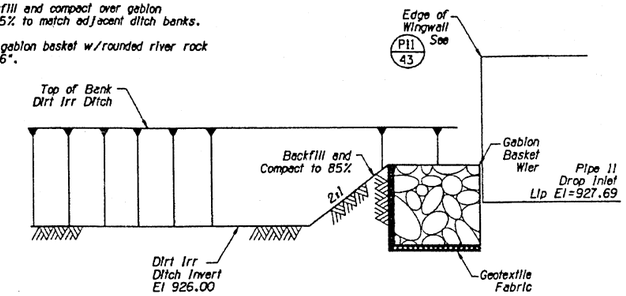
N.T.S.

NOTE:

1) Drop Inlet Headwall Details Modified from ADOT Std B-11.12.

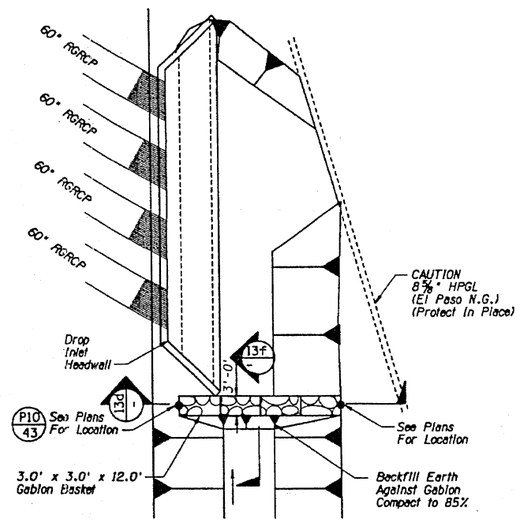
2) Backfill and compact over gabion to 85% to match adjacent ditch banks.

3) Fill gabion basket w/rounded river rock D_{50}=6".



SECTION (13f / -)

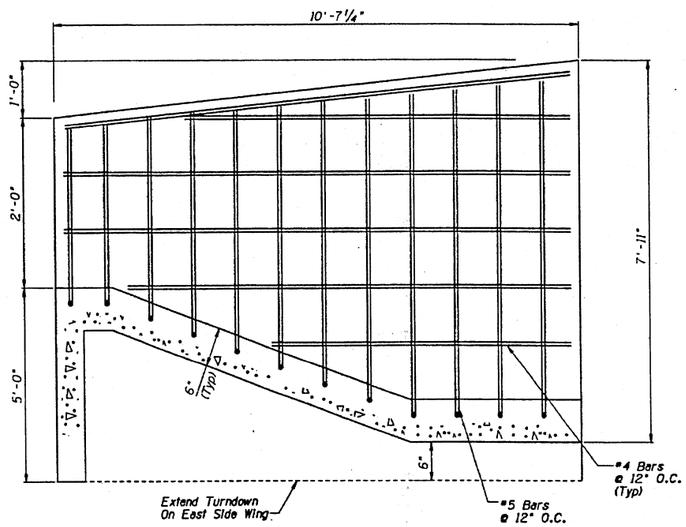
N.T.S.



GABION BASKET WIER (13c / -)

PLAN VIEW

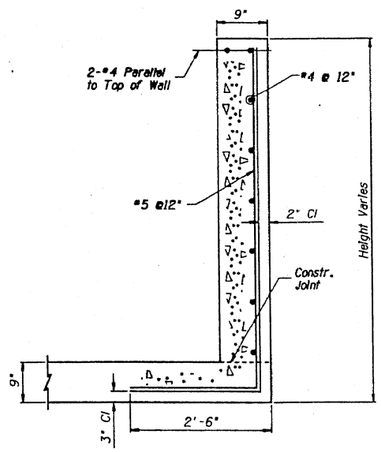
N.T.S.



WINGWALL DIMENSIONS (13b / -)

SECTION

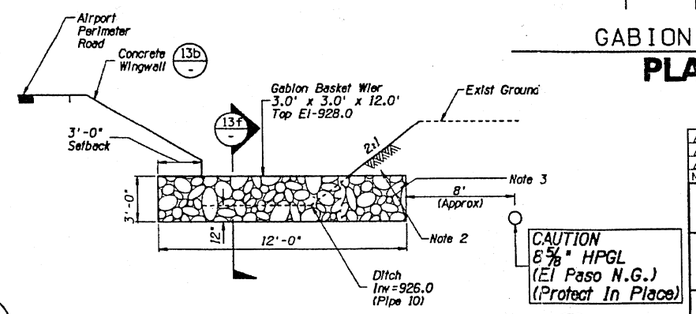
N.T.S.



WINGWALL REINFORCEMENT (13e / -)

SECTION

N.T.S.



GABION BASKET WIER (13d / -)

SECTION

N.T.S.

NO.	REVISION	BY	DATE
1			
2			
3			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	R. SHISHIDO	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Bradford D. Olbert 9/8/98

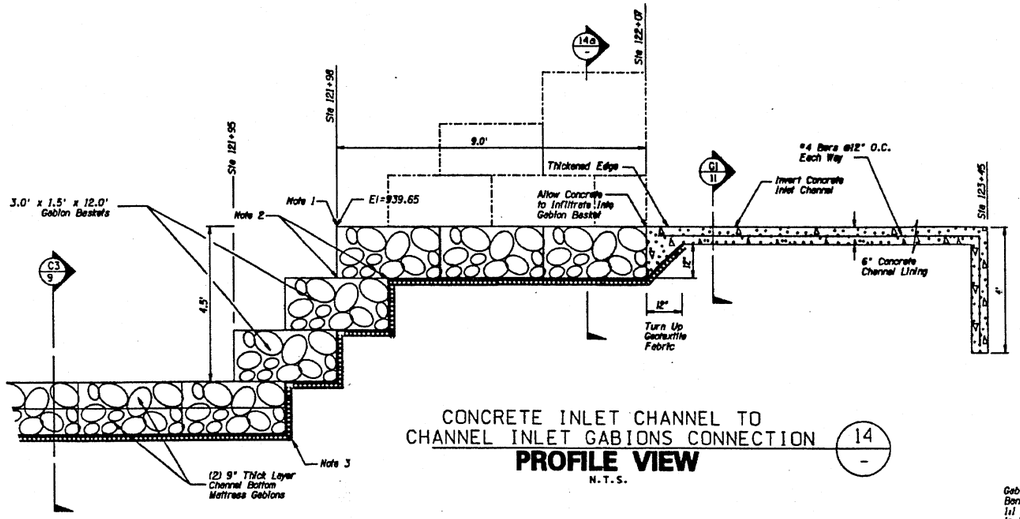
Registered Professional Engineer (Civil) CERTIFICATE NO. 13955 BRADFORD D. OLBERT Date Signed 9/8/98 ARIZONA U.S.A.

Sverdrup CORPORATION

DETAIL SHEET
DROP INLET HEADWALL-48" RGRCP

SHEET 61 OF 81

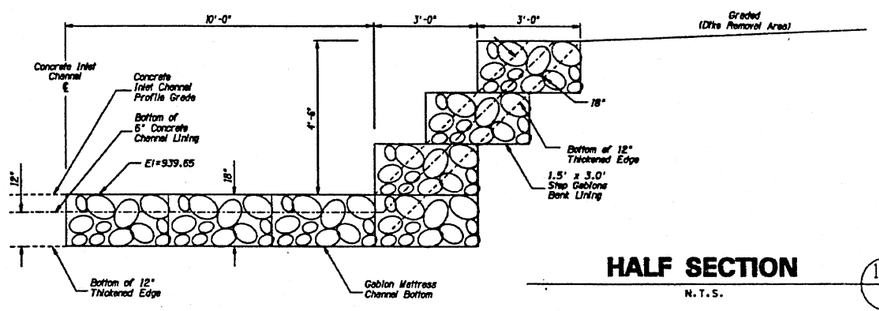
Filename: mdgpgc88
Plotted By: mdgcrm Date: mdgdate88



CONCRETE INLET CHANNEL TO CHANNEL INLET GABIONS CONNECTION (14)

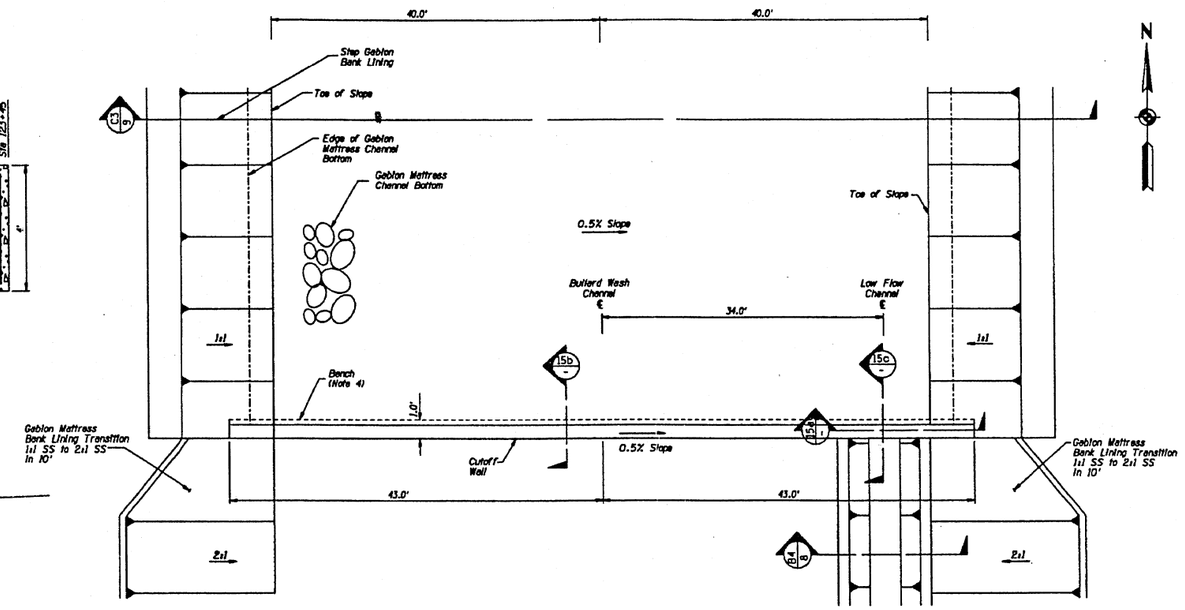
PROFILE VIEW

N.T.S.



HALF SECTION (14a)

N.T.S.



CONCRETE CUTOFF WALL AND LOW FLOW CHANNEL INLET (15)

PLAN VIEW

N.T.S.

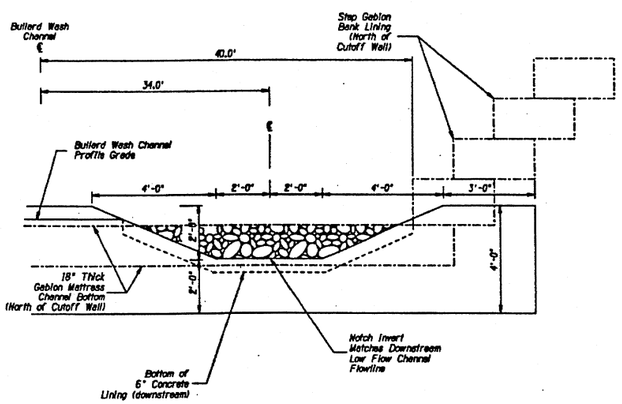
NOTES

1) Gabion baskets filled w/rounded river rock D_{50}=6.0 inches.

2) Connect edges of gabions to adjacent gabion baskets.

3) Install geotextile fabric under gabions.

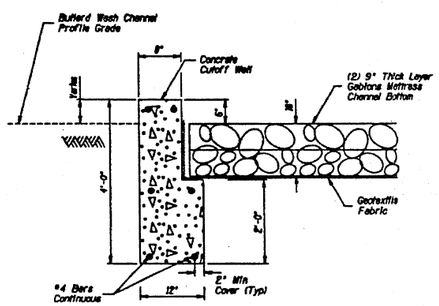
4) Channel bottom mattress gabions rest on concrete bench. See (15b)



CONCRETE CUTOFF WALL NOTCH AND LOW FLOW CHANNEL INLET (15a)

SECTION

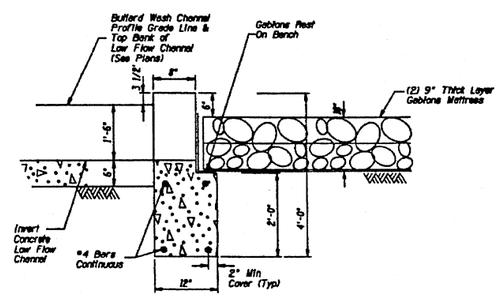
N.T.S.



LOW FLOW CUTOFF WALL (15b)

SECTION

N.T.S.



LOW FLOW CHANNEL INLET (15c)

SECTION

N.T.S.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

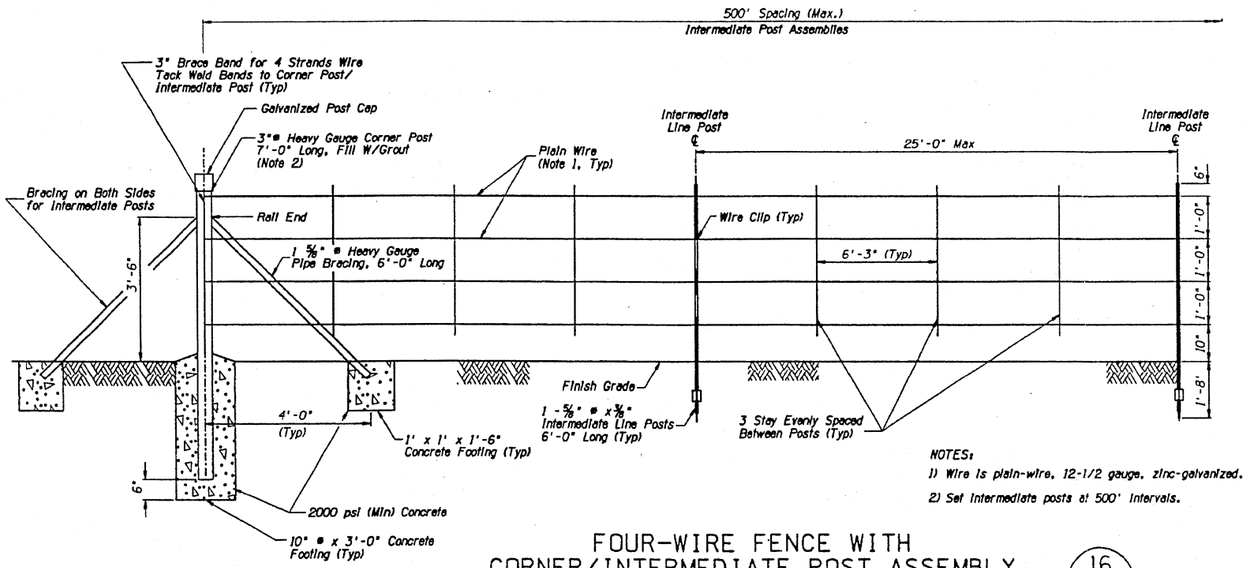
13955 BRADFORD D. OLBERT ARIZONA U.S.A.

Sverdrup
CORPORATION

DETAIL SHEET
CHANNEL INLET GABIONS AND CUTOFF WALL

SHEET 62 OF 81

Filename: mkgrpcom
Plotted by: mkgrpcom Date: mkplotdate



NOTES:

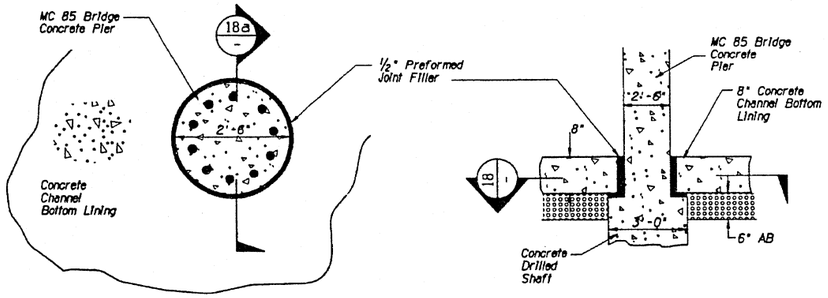
1) Wire is plain-wire, 12-1/2 gauge, zinc-galvanized.

2) Set intermediate posts at 500' intervals.

FOUR-WIRE FENCE WITH
CORNER/INTERMEDIATE POST ASSEMBLY (16 / -)

ELEVATION

N.T.S.



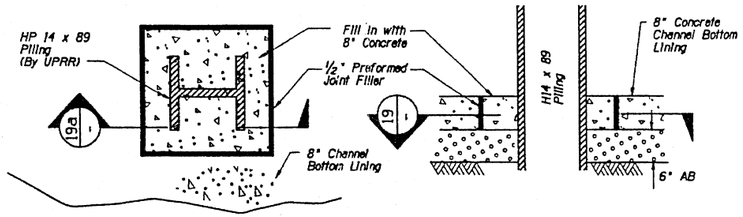
JOINT BETWEEN MC 85 BRIDGE PIER
AND CONCRETE CHANNEL LINING (18 / -)

PLAN VIEW

N.T.S.

SECTION (18a / -)

N.T.S.



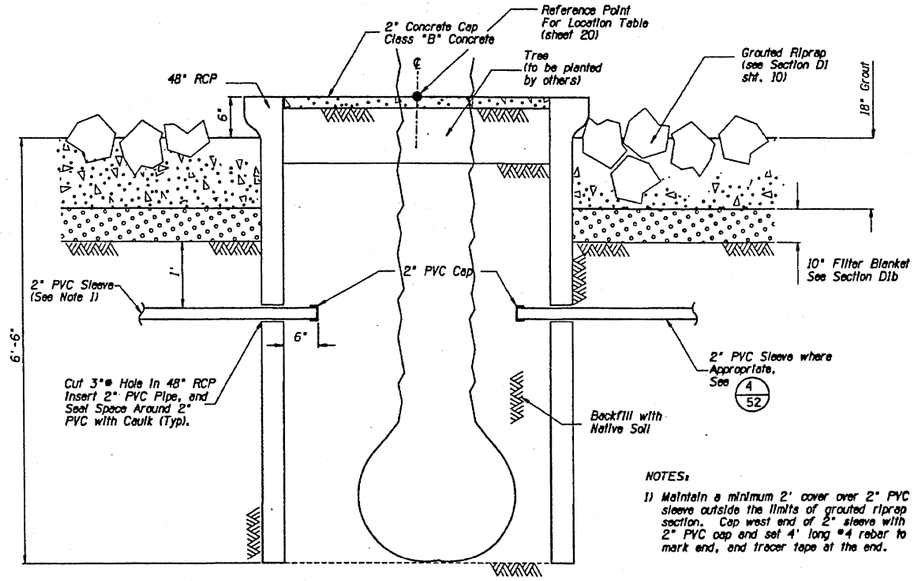
JOINT BETWEEN UPRR BRIDGE PILE
AND CONCRETE CHANNEL LINING (19 / -)

PLAN VIEW

N.T.S.

SECTION (19a / -)

N.T.S.



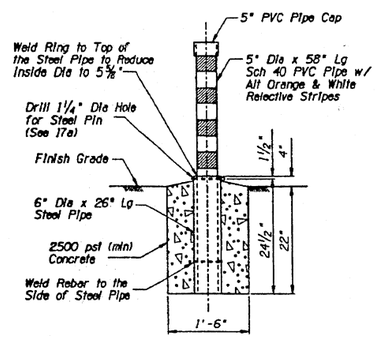
NOTES:

1) Maintain a minimum 2' cover over 2" PVC sleeve outside the limits of grouted riprap section. Cap west end of 2" sleeve with 2" PVC cap and set 4' long #4 rebar to mark end, and tracer tape at the end.

TREE WELL SET IN
GROUTED RIPRAP (21 / -)

SECTION

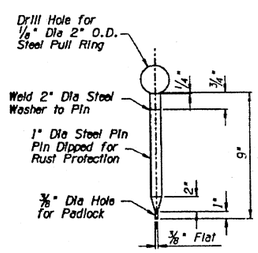
N.T.S.



REMOVABLE SAFETY POST (17 / -)

SECTION

N.T.S.



STEEL PIN (17a / -)

SECTION

N.T.S.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	B. EDGAR	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

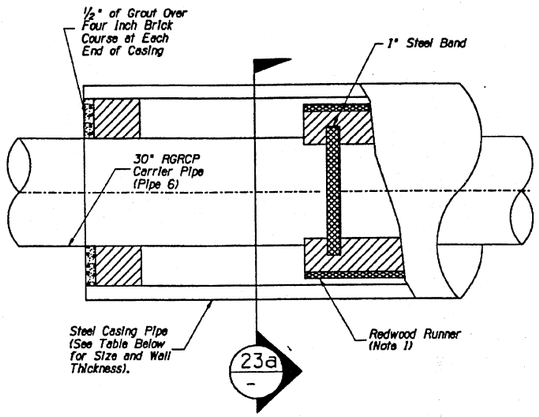
REGISTERED PROFESSIONAL ENGINEER 13955 BRADFORD D. OLBERT ARIZONA U.S.A.

Sverdrup CORPORATION

DETAIL SHEET
4-STRAND FENCE,REMOVABLE SAFETY POST

SHEET 63 OF 81

Filename: M4gspec.dgn
Plotted By: mkaserw Date: mp/dd/dd/ww

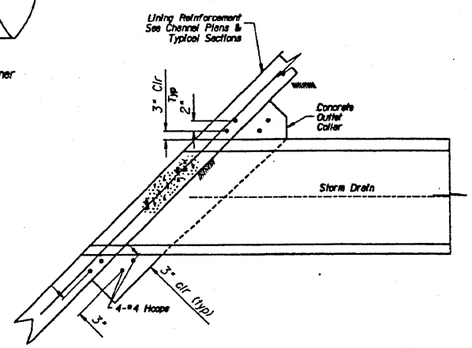


SLED FOR PIPE 6 CARRIER PIPE (23 / -)

DETAIL

N.T.S.

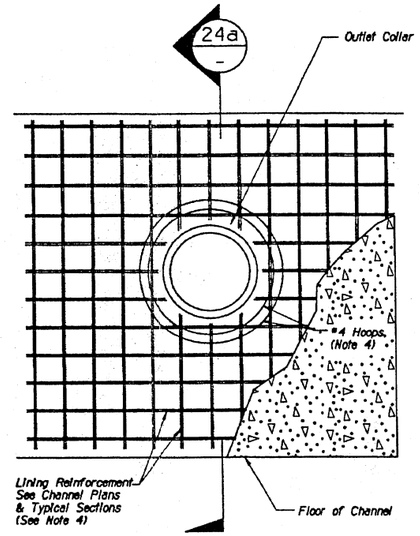
CARRIER PIPE NOMINAL DIA.	STEEL CASING PIPE		MINIMUM RUNNER SIZE
	MIN. DIA.	MIN. WALL THICK	
30"	48"	0.6250"	4" X 6"



CONCRETE COLLAR (24a / -)

SECTION

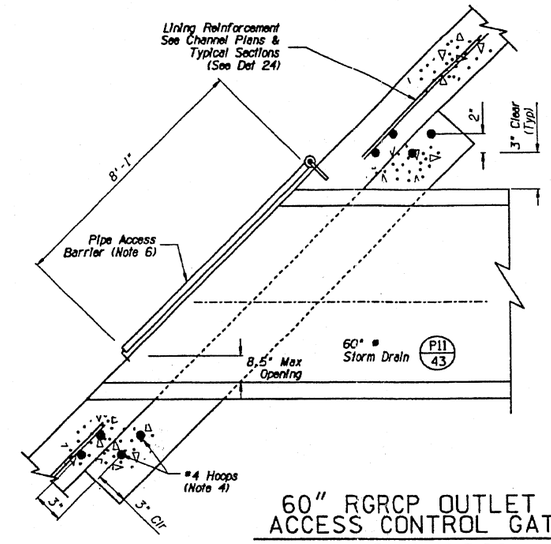
N.T.S.



CONCRETE COLLAR (24 / -)

DETAIL

N.T.S.



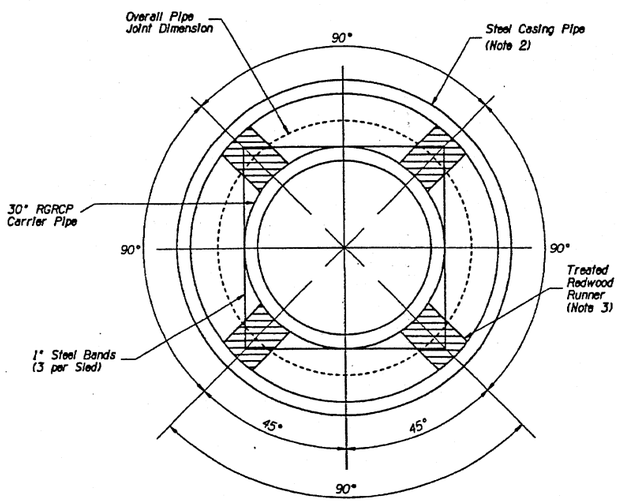
60" RGRCP OUTLET & ACCESS CONTROL GATE (22 / -)

SECTION

N.T.S.

NOTES:

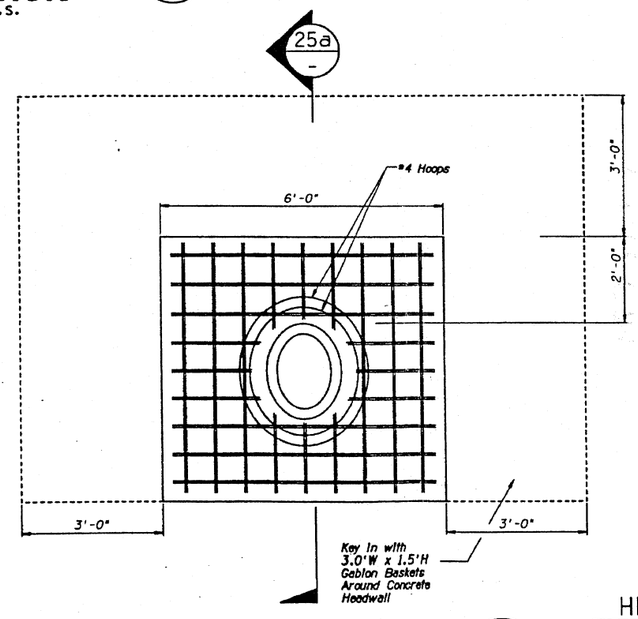
1) Runner length to be 75% of Laying Length
2) See Sheet 40 for casing length.
3) Neoprene runners may be used as an alternative to treated redwood.
4) Install 4-#4 hoops and concrete collar for each pipe at inlet and outlet.
5) Provide 3" min. Clear Cover
6) Install a Pipe Access Barrier for a 96" diameter pipe (ADOT Std Det C-13.75). Center gates over elliptical outlet opening.
7) Pipe P7 slopes away from Headwall (Sec 25a).



PIPE CASING FOR PIPE 6 UPRR CROSSING (23a / -)

SECTION

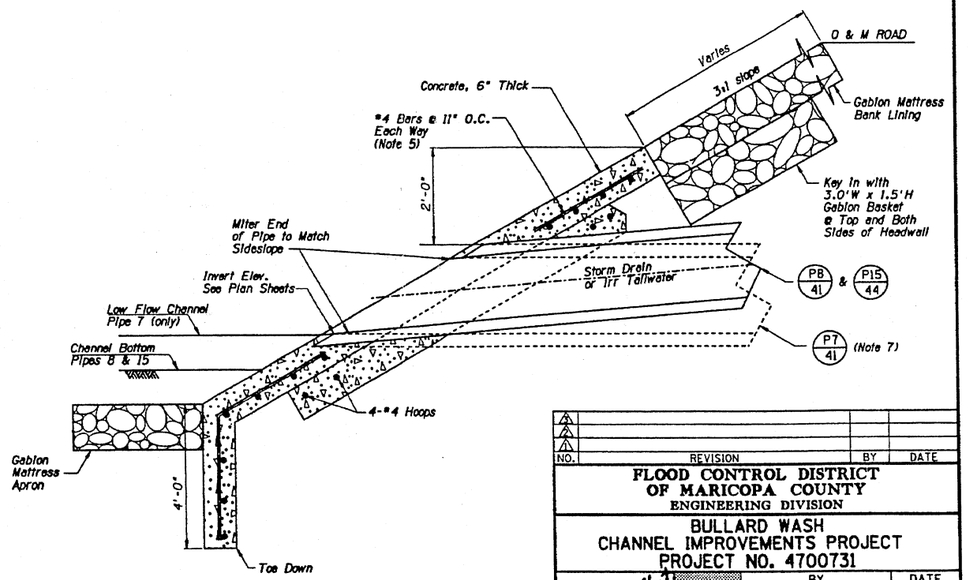
N.T.S.



HEADWALL IN BANK LINING (25 / -)

DETAIL

N.T.S.



HEADWALL IN BANK LINING (25a / -)

SECTION

N.T.S.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

ENGINEERING DIVISION

BULLARD WASH CHANNEL IMPROVEMENTS PROJECT

PROJECT NO. 4700731

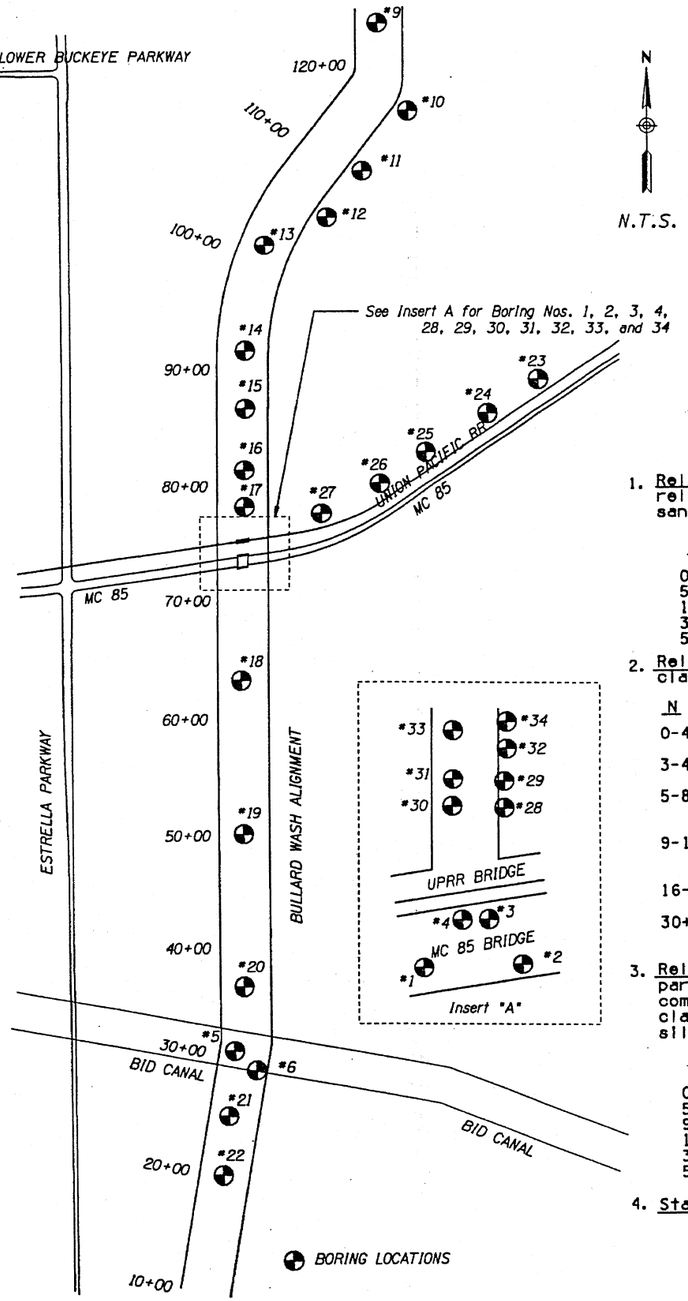
	BY	DATE
DESIGNED	D. STOUGH	8/25/98
DRAWN	R. SHISHIDO	9/08/98
CHECKED	R. MILES/B. OLBERT	9/08/98

Sverdrup CORPORATION

DETAIL SHEET
BORE CASING DETAILS

SHEET 64 OF 81

Filename: MKbyrpgm
Plotted By: mkaserm Date: mmddddhhmm



N

N.T.S.

BORING LOCATION MAP

1. Relative Density. Terms for description of relative density of cohesionless, uncemented sands and sand-gravel mixtures.

N	Relative Density
0-4	Very loose
5-10	Loose
11-30	Medium dense
31-50	Dense
50	Very dense

2. Relative Consistency. Terms for description of clays which are saturated or near saturation.

N	Relative Consistency	Remarks
0-4	Very soft	Easily penetrated several inches with fist.
3-4	Soft	Easily penetrated several inches with thumb.
5-8	Medium stiff	Can be penetrated several inches with thumb with moderate effort.
9-15	Stiff	Readily indented with thumb but penetrated only with great effort.
16-30	Very stiff	Readily indented with thumbnail
30+	Hard	Indented only with difficulty by thumbnail

3. Relative Firmness. Terms for description of partially saturated and/or cemented soils which commonly occur in the Southwest including clays, cemented granular materials, silts and silty and clayey granular soils.

N	Relative Density
0-4	Very soft
5-8	Soft
9-15	Moderately firm
16-30	Firm
31-50	Very firm
50+	Hard

4. Standard Penetraion Tests (SPT) =

DEFINITIONS OF SOIL FRACTIONS

SOIL COMPONENT	PARTICAL SIZE RANGE
Cobbles	Above 3 inches
Gravel	3 inches to No. 4 sieve
Course gravel	3 inches to ¾ inch
Fine gravel	¾ inch to No. 4 sieve
Sand	No. 4 sieve to No. 200
Course	No. 4 sieve to No. 10
Medium	No. 10 sieve to No. 40
Fine	No. 40 sieve to No. 200
Fines (silt or clay)	Below No. 200 sieve

GRAPHIC SYMBOL	GROUP SYMBOL	TYPICAL NAMES
	GW	Well graded gravels, gravel - sand mixtures, or sand - gravel - cobble mixtures.
	GP	Poorly graded gravels, gravel - sand mixtures, or sand - gravel - cobble mixtures.
	GM	Silty gravels, gravel - sand - silt mixtures.
	GC	Clayey gravels, gravel - sand - clay mixtures.
	SW	Well graded sands, gravelly sands.
	SP	Poorly graded sands, gravelly sands.
	SM	Silty sands, sand - silty mixtures.
	SC	Clayey sands, sand - clay mixtures.
	ML	Inorganic silts, clayey silts with slight plasticity
	MH	Inorganic silts, micaceous or diatomaceous silty soils, elastic silts.
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
	CH	Inorganic clays of high plasticity, fat clays, sandy clays of high plasticity.

NOTES:

Information contained on Foundation Data sheets is made available to prospective bidders for information purposes only and is not to be considered a part of the contract documents.

Information is developed as accurately as possible by the methods utilized. However, the County accepts no responsibility for any conditions encountered which may be at variance from information contained herein.

The absence of a ground water indication does not constitute a representaion that the ground water will not be present during construction. Ground water is indicated herein only when found during the foundation investigation and represents that condition only on the date of the investigation.

Classification of materials is in accordance with AASHTO Manual on Foundation Investigation and is based upon field inspection and is not to be construed to imply mechanical analysis.

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. HAYES	7/07/98
DRAWN	A. OSORIO	7/07/98
CHECKED	A. OSORIO	7/07/98

ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

LOCATION MAP

SHEET 65 OF 81

Boring Location: 46 feet Left Channel ℄ Sta 73+42
Elevation of Boring: 921.0
Date of Boring: 9/18/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
	5	Brown, silty, clayey, SAND (SC-SM), Moist				
	10	Brown, lean CLAY (CL), Moist				
		Brown, sandy, silty CLAY (CL-ML), Moist				
		Brown, lean CLAY (CL)	16	60	56.2	7
	15		45			
	20	Gray-tan, poorly graded SAND (SP), Moist	19			
	25		18		4.5	NP
	30		18			
	35	Brown, silty, clayey SAND (SC-SM), Moist Note: Changed to 4" Dia Auger				
	40	Gray-tan, poorly graded SAND (SP), Wet Water at 38.3'				
	45					
	50					
	55					
	60					
	65					
	70					
	75	(Bottom of Boring at 75 feet)				

Boring No. 1

Boring Location: 50 feet Right Channel ℄ Sta 73+43
Elevation of Boring: 921.0
Date of Boring: 9/17/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
	5	Brown, silty, clayey, SAND (SC-SM), Moist		18	46.5	6
	10	Brown, lean CLAY (CL), Moist	18			
			19			
	15	Moisture Increase to very moist	29	44	80.6	11
	20	Gray-tan, silty SAND (SM), Moist	18		14.5	NP
	25		15	24		
	30		16			
	35	Brown, silty, clayey SAND (SC-SM), Moist				
		Brown, silty, CLAY (CL-ML), Very Moist	15			
	40	Gray-Tan, silty SAND (SM) Water at 38.3'				
		Brown, silty, clayey SAND (SC-SM)	5			
	45	Gray-Tan, silty SAND (SM)	14			
	50		17			
	55		75			
	60	(Bottom of Boring at 56 ½ feet)				

Boring No. 2

Boring Location: 17.5 feet Right Channel ℄ Sta 74+00
Elevation of Boring: 921.5
Date of Boring: 11/3/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
	5	Brown, silty SAND (SM) with gravel, Moist	7			
	10		17	27		
	15	Brown, lean CLAY (CL), Moist	28			
	20		14	47	88.0	25
	25	Gray-tan, silty SAND (SM) with trace of gravel, Moist	16			
	30	Water at 33.3'	18			
	35		14			
	40	(Bottom of Boring at 37 feet)				

Boring No. 3

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. HAYES	7/07/98
DRAWN	A. OSORIO	7/07/98
CHECKED	A. OSORIO	7/07/98

ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

BORING LOGS
NO. 1, 2, 3

SHEET 66 OF 81

Filename: mdgpgxxm
Plotted By: rhoser#1 Date: mmjjhhddyy##

Boring Location: 17.5 feet Left Channel ℄ Sta 73+99
Elevation of Boring: 921.5
Date of Boring: 11/3/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, silty SAND (SM) with gravel, Moist				
	5		8			
	10		19			
	15	Light brown, silty SAND (SM), damp	36		38.0	NP
	20		18			
		Brown, lean CLAY (CL), Moist				
	25		17			
		Tan, silty SAND (SM), damp				
	30	Gray-tan, silty SAND (SM) with some gravel, Moist	20			
		(Bottom of Boring at 32 feet)				
	35					

Boring No. 4

Boring Location: 40 feet Left Channel ℄ Sta 30+60 North Bank BID Canal
Elevation of Boring: 913.0
Date of Boring: 9/18/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, silty SAND (SM), interbedded with gray-tan silty SAND (SM)				
	5		12			
	10	Gray-Tan, poorly graded GRAVEL (GP)	24	25	3.8	NP
	15	Trace of Gravel with Gravel, Moist	24			
	20	Water at 22.3'	25	19	3.4	NP
	25		50/5"			
	30		39			
	35		11			
	40		33			
	45	Increasing % of gravel				
	50	(Bottom of Boring at 50 feet)				

Boring No. 5

Boring Location: 40 feet Right Channel ℄ Sta 29+60 North Bank BID Canal
Elevation of Boring: 910.0
Date of Boring: 9/19/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, lean CLAY (CL), Moist			93.2	17
	5		27			
		Gray-Tan sandy SILT (ML), Moist				
	10	Brown, lean CLAY (CL), Wet	12		61.2	NP
		Gray-Tan sandy SILT (ML), Moist				
	15		3			
		Brown, lean CLAY (CL), Wet				
	20	Gray, poorly graded GRAVEL (GP) Water at 22.35'	30			
	25		18			
	30		66			
	35		29			
	40		47			
	45	With gravel	38			
	50		50/6"			
		(Bottom of Boring at 50½ feet)				

Boring No. 6

NO.	REVISION	BY	DATE
3			
2			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. HAYES	7/07/98
DRAWN	A. OSORIO	7/07/98
CHECKED	A. OSORIO	7/07/98

ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

BORING LOGS
No. 4, 5, 6

SHEET 67 OF 81

Filename: [illegible]
Plotted By: [illegible] Date: [illegible]

Boring Location: Channel ℄ Sta 119+57
Elevation of Boring: 948.0
Date of Boring: 9/29/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, lean CLAY (CL), Moist				
	5	Brown, silty CLAY (CL-ML) with sand			78.3	7
		Weak cementation				
	10	Brown, lean CLAY (CL), damp				
	15	(Bottom of boring at 15 feet)				

Boring No. 9

Boring Location: 100 feet Right Sta 111+00
Elevation of Boring: 941.0
Date of Boring: 9/30/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, lean CLAY (CL), Moist				
	5				94.2	11
		Moisture increases to wet				
	10	Gray-tan, Poorly graded SAND (SP-SM) with silt and gravel				
		Brown, lean CLAY (CL), very moist				
	15	(Bottom of boring at 15 feet)				

Boring No. 11

Boring Location: Centerline Channel Sta 101+00
Elevation of Boring: 942.8
Date of Boring: 9/30/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, lean CLAY (CL) with sand, Moist				
	5	Light brown, sandy lean CLAY (CL) Strong cemented strata			52.2	15
		Moderate to strong cementation				
	10	Cementation increase to strong to moderate				
		Brown, silty CLAY (CL-ML) with sand, Moist				
	15	(Bottom of boring at 15 feet)				

Boring No. 13

Boring Location: 100 feet Right Station 116+00, 5 feet West of airport fence
Elevation of Boring: 943.0
Date of Boring: 9/30/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, silty CLAY (CL-ML), Moist			74.6	5
	5					
	10	Moisture increases to wet				
		Gray-Tan, Poorly graded SAND (SP-SM) with silt and gravel				
	15	(Bottom of boring at 15 feet)				

Boring No. 10

Boring Location: 100 feet Right Sta 106+00
Elevation of Boring: 941.0
Date of Boring: 9/30/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, lean CLAY (CL), Moist				
	5	Tan, clayey SAND (SC), Moist Weak to moderate cementation			41.9	15
		Cementation increase to strong to moderate				
	10	Brown, silty CLAY (CL-ML) with sand, very moist				
	15	(Bottom of boring at 15 feet)				

Boring No. 12

Boring Location: Channel Centerline, Sta 91+90
Elevation of Boring: 944.1
Date of Boring: 9/25/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, lean CLAY (CL) with sand, damp			77.0	12
	5					
	10	Brown, sandy SILT (ML), damp with nodules of strong cementation				
		Moisture increases to moist				
	15	(Bottom of boring at 15 feet)				

Boring No. 14

Boring No. 7 & No. 8 Do Not Exist

NO.	REVISION	BY	DATE
3			
2			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. HAYES	7/07/98
DRAWN	A. OSORIO	7/07/98
CHECKED	A. OSORIO	7/07/98

ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

BORING LOGS
No. 9 - 14

SHEET 68 OF 81

Filename: mwyoyoe#
Plotted By: MWOOD#
Date: mmddddyyyy

Boring Location: Centerline Channel Sta 86+40
Elevation of Boring: 941.5
Date of Boring: 9/25/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, sandy SILT (ML) with nodules and strong cementation, damp (Fill)				
	5	Brown, silty SAND (SM) with fine gravel, nodules of strong cementation, damp			33.1	NP
	10	Increases in nodules percent and size to 1"				
	15	(Bottom of boring at 15 feet)				

Boring No. 15

Boring Location: Channel Centerline Sta 78+50
Elevation of Boring: 936.5
Date of Boring: 9/25/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, silty CLAY (CL-ML) with sand, damp			71.8	5
	5	(Bottom of fill at 8 feet)				
		Brown, silty SAND (SM) with trace of gravel				
	10	Brown, lean CLAY (CL) with sand, damp				
	15	(Bottom of boring at 15 feet)				

Boring No. 17

Boring Location: Centerline Channel Sta 50+14
Elevation of Boring: 915.0
Date of Boring: 9/22/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, SILT (ML) with sand, Moist			79.7	3
	5					
	10	Brown, silty SAND (SM), Moist with nodules of strong cementation, Moist				
	15	(Bottom of boring at 15 feet)				

Boring No. 19

Boring Location: Channel Centerline, Sta 82+50
Elevation of Boring: 942.5
Date of Boring: 9/25/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, lean CLAY (CL) with sand, damp				
		(Bottom of fill at 4 feet)				
	5	Brown, sandy SILT (ML), with nodules of strong cementation, damp			63.6	7
	10	Brown, lean CLAY (CL) with sand, damp				
	15	(Bottom of boring at 15 feet)				

Boring No. 16

Boring Location: Channel Centerline Sta 63+35
Elevation of Boring: 918.5
Date of Boring: 9/22/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, SILT (ML) with sand, Moist			74.1	3
	5	Brown, silty CLAY (CL-ML) with sand, moist				
	10	Brown, sandy SILT (ML) with nodule of strong cementation, Moist				
		Brown, silty CLAY (CL-ML) with sand, moist				
	15	(Bottom of boring at 15 feet)				

Boring No. 18

Boring Location: Channel Centerline, Sta 36+71
Elevation of Boring: 912.5
Date of Boring: 9/22/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, silty CLAY (CL-ML), Moist				
	5	Brown, SILT (ML) with sand, very moist			83.0	6
	10					
	15	(Bottom of boring at 15 feet)				

Boring No. 20

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. HAYES	7/07/98
DRAWN	A. OSORIO	7/07/98
CHECKED	A. OSORIO	7/07/98

ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

BORING LOGS
No. 15 - 20

SHEET 69 OF 81

Filename: mdgrpage
Plotted By: mauerer Date: mm/dd/yyyy

Boring Location: Centerline Channel Sta 25+60
Elevation of Boring: 909.8
Date of Boring: 9/30/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, SILT (ML), Moist			86.9	5
	5					
	10					
		Gray-Tan, Poorly graded SAND (SP-SM) with silt and gravel				
	15	(Bottom of boring at 15 feet)				

Boring No. 21

Boring Location: 5 feet Right of Channel Centerline Sta 35+00
Elevation of Boring: Existing
Date of Boring: 9/25/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, SILT (ML), damp				
	5	Brown, sandy, silty CLAY (CL-ML), Moist			68.7	4
	10					
		Gray-tan, gravelly SAND (SP), Moist				
		Brown, SILT (ML), Moist				
	15	(Bottom of boring at 15 feet)				

Boring No. 23

Boring Location: Centerline Channel Sta 25+00 (35 feet North of South airport fence)
Elevation of Boring: 934.0
Date of Boring: 9/25/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Light brown, sandy SILT (ML).damp weak cementation with nodules of strong cementation				
	5	Gray-tan, SILT (ML) with gravel, damp			10.0	NP
	10					
	15	(Bottom of boring at 15 feet)				

Boring No. 25

Boring Location: Channel Centerline, Sta 20+10
Elevation of Boring: 902.0
Date of Boring: 9/30/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, SILT (ML), damp				
	5	Gray, Poorly graded SAND (SP-SM) with silt and gravel			6.6	NP
		(Bottom of boring at 6 feet)				
	10					
	15					

Boring No. 22

Boring Location: Channel Centerline Sta 30+00 (35 feet North of South airport fence)
Elevation of Boring: Existing
Date of Boring: 9/29/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Light brown, sandy lean CLAY (CL), damp weak cementation			54.4	9
	5					
	10	Gray-tan, SILT (ML) with gravel, damp with cementation, hard, 9' - 10'				
	15	(Bottom of boring at 15 feet)				

Boring No. 24

Boring Location: Channel Centerline, Sta 20+00 (35 feet North of South airport fence)
Elevation of Boring: 931.0
Date of Boring: 9/25/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, silty SAND (SM), with gravel with nodules of strong cementation			43.7	3
	5					
	10	Gray-tan, gravelly SAND (SP), Moist				
	15	(Bottom of boring at 15 feet)				

Boring No. 26

NO.	REVISION	BY	DATE
3			
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FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. HAYES	7/07/98
DRAWN	A. OSORIO	7/07/98
CHECKED	A. OSORIO	7/07/98

ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

BORING LOGS
No. 21 - 26

SHEET 70 OF 81

Filename: mdgcover
Plotted By: mgcarm Date: mgcdatetem

Boring Location: Centerline Channel Sta 15+00 (35 feet North of airport fence)
Elevation of Boring: 924.5
Date of Boring: 9/25/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, sandy SILT (ML), damp			54.0	1
	5	Moisture increases to moist				
	10					
		Brown, silty SAND (SM), with trace of gravel				
	15	(Bottom of boring at 15 feet)				

Boring No. 27

Boring Location: 40 feet Right of Channel Centerline Sta 78+20
Elevation of Boring: 938.0
Date of Boring: 10/14/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Light brown, silty CLAY (CL-ML), damp with gravel and small pieces of broken concrete				
	5	(Bottom of fill at 6 feet)				
		Light brown, silty SAND (SM), with nodules of strong cementation				
	10					
	15	(Bottom of boring at 15 feet)				

Boring No. 29

Boring Location: Centerline Channel Sta 79+20
Elevation of Boring: 937.0
Date of Boring: 10/14/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Light brown, silty CLAY (CL-ML), damp Light brown, silty CLAY (CL-ML), with gravel and black plastic sheeting from 1' to 3½' below grade				
	5	(Bottom of fill at 6 feet)				
		Light brown, silty SAND (SM), Moist				
	10					
	15	(Bottom of boring at 15 feet)				

Boring No. 31

Boring Location: 40 feet Right of Channel Centerline, Sta 77+70
Elevation of Boring: 937.2
Date of Boring: 9/25/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Light brown, silty CLAY (CL-ML), damp with broken asphaltic concrete from 0 to 3 feet Light brown, silty CLAY (CL-ML), damp				
	5	(Bottom of fill at 10 feet)				
	10	Light brown, silty CLAY (CL-ML), moist				
	15					
	20	Gray-Tan, Poorly graded SAND (SP-SM) with silt and gravel				
		(Bottom of boring at 22 feet)				

Boring No. 28

Boring Location: 10 feet Left of Channel Centerline Sta 77+95
Elevation of Boring: 937.2
Date of Boring: 10/14/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Light brown, silty CLAY (CL-ML), with sand, damp Light brown, silty CLAY (CL-ML), damp with broken asphaltic concrete from 1' to 3½' below grade				
	5	(Bottom of fill at 9 feet)				
	10	Light brown, silty CLAY (CL-ML), with sand, damp increase in moisture to moist				
	15	(Bottom of boring at 15 feet)				

Boring No. 30

Boring Location: 50 feet East of Channel Centerline, Sta 79+20
Elevation of Boring: 937.5
Date of Boring: 10/14/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Light brown, silty CLAY (CL-ML), damp Light brown, silty CLAY (CL-ML), with broken concrete from 1' to 3½' below grade				
	5	(Bottom of fill at 3½feet) Light brown, silty CLAY (CL-ML), damp				
	10					
	15	(Bottom of boring at 15 feet)				

Boring No. 32

NO.	REVISION	BY	DATE
4			
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. HAYES	7/07/98
DRAWN	A. OSORIO	7/07/98
CHECKED	A. OSORIO	7/07/98

ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

BORING LOGS
No. 27 - 32

SHEET 71 OF 81

Filename: M4gyspec#8
Plotted By: mkoser#8 Date: mm/dd/dd

Boring Location: Channel Centerline Sta 80+00
Elevation of Boring: 938.0
Date of Boring: 10/14/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Light brown, silty CLAY (CL-ML), damp				
		Light brown, silty CLAY (CL-ML), with broken concrete and piece of electrical wire from 2' to 6' below grade				
	5	(Bottom of fill at 6 feet)				
		Light brown, silty CLAY (CL-ML), moist				
	10					
	15	(Bottom of boring at 15 feet)				

Boring No. 33

Boring Location: 50 feet East of Channel Centerline, Sta 80+00
Elevation of Boring: 938.5
Date of Boring: 10/14/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Light brown, silty CLAY (CL-ML), damp with broken concrete and pieces of tire limbs from 0' to 6' below grade				
	5	(Bottom of fill at 6 feet)				
		Light brown, silty CLAY (CL-ML), damp with traces of gravel				
	10					
	15	(Bottom of boring at 15 feet)				

Boring No. 34

NO.	REVISION	BY	DATE
3			
2			
1			

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

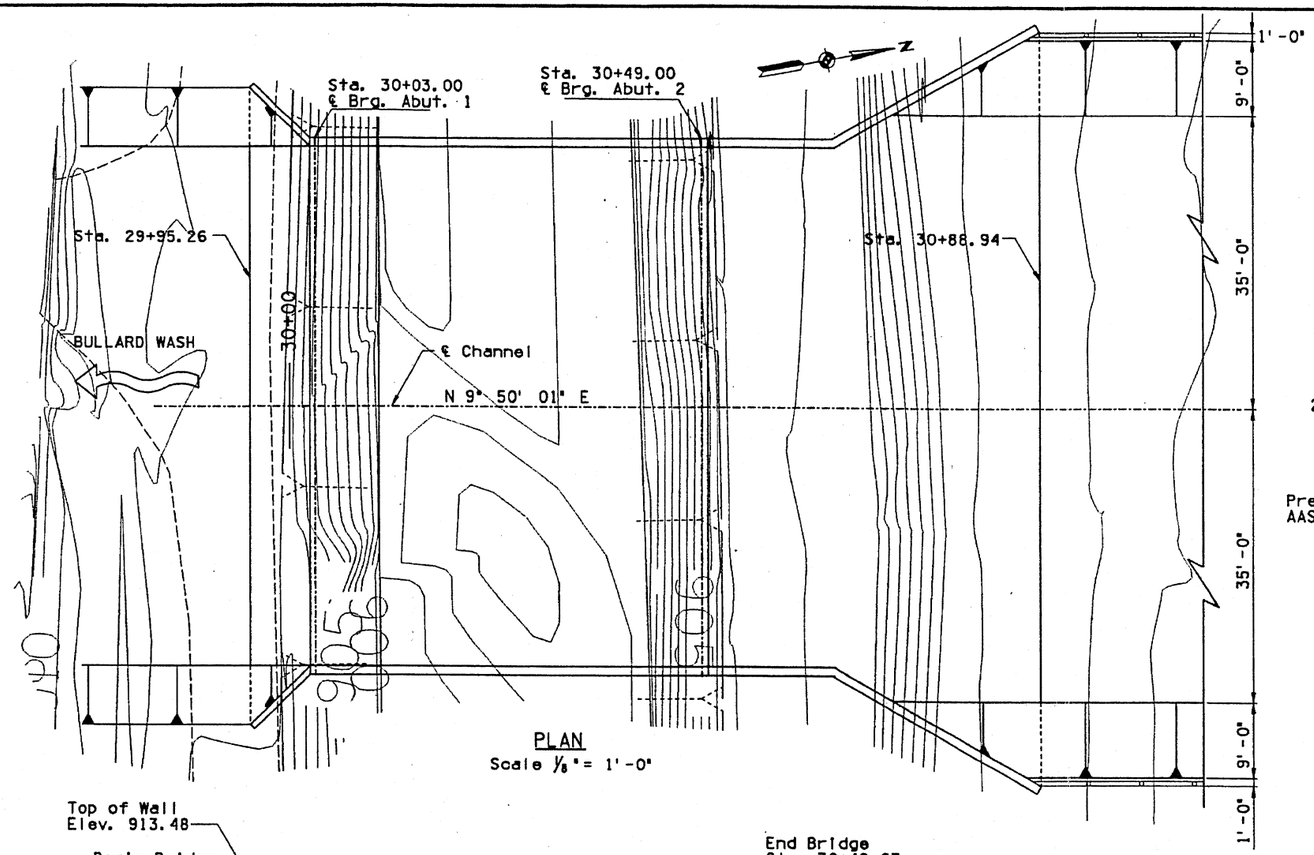
	BY	DATE
DESIGNED	D. HAYES	7/07/98
DRAWN	A. OSORIO	7/07/98
CHECKED	A. OSORIO	7/07/98

ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

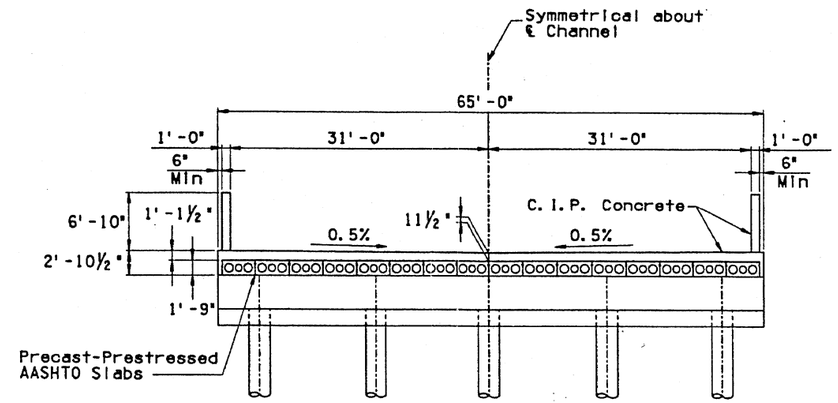
BORING LOGS
No. 33 - 34

SHEET 72 OF 81

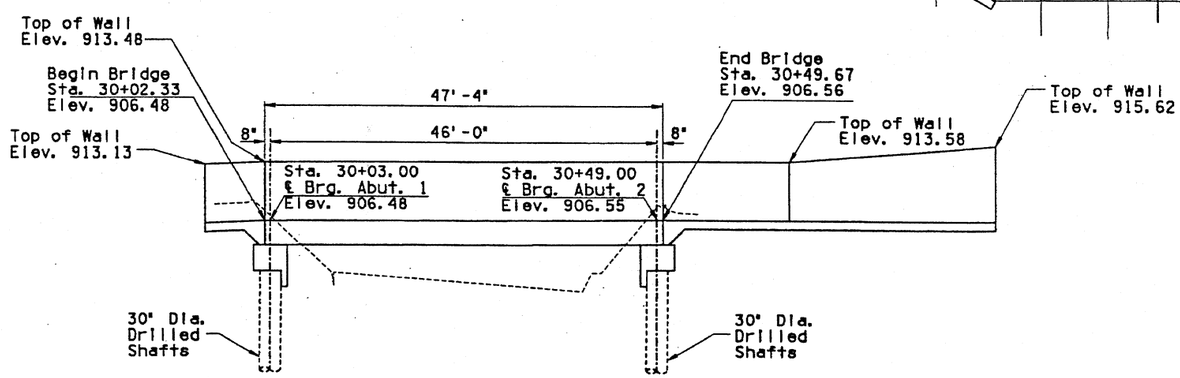
Filename: #4bgxpcc#4
Plotted By: RAZAK #4 Date: 8/5/10:10:44



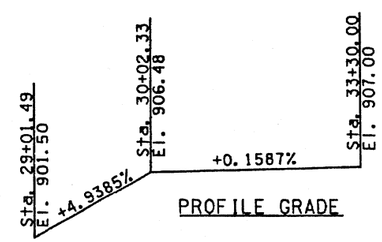
PLAN
Scale 1/8" = 1'-0"



TYPICAL SECTION
Scale 1/8" = 1'-0"



ELEVATION
Scale 1/8" = 1'-0"
Stations, elevations, and dimensions are measured along ℄ of Overchute



PROFILE GRADE

SHEET LIST

TITLE	NO.
General Plan	73
General Notes & Quantities	74
Foundation Data Sheet 1	75
Foundation Data Sheet 2	76
Foundation Layout/Drilled Shaft Details	77
Abutment Details: Plan & Elevation	78
Precast-Prestressed Slab Details	79
Deck, Approach Slab & Wall Details	80

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	J. FISCHER	8/25/98
DRAWN	R. SHISHIDO	9/08/98
CHECKED	C. RODRIGUEZ	9/08/98

Sverdrup CORPORATION

BID CANAL OVERCHUTE
GENERAL PLAN

SHEET 73 OF 81

Filename: mdgcgpc98
Plotted By: rkagawa Date: mm/dd/yyyy
b.dgn 12/6/93

GENERAL NOTES:

Construction Specifications - Maricopa Association of Governments (MAG) Uniform Standard Specifications for Public Works Construction, 1998 and revisions to date, and the Special Provisions.

Design Specifications - AASHTO Standard Specifications for Highway Bridges, 16th Edition, 1996.

Dead Load - Water with sediment load 65 pcf. Design flow in overchute=Q_{100}=3,200 cfs. Design water depth in overchute=5 ft at wall.

Vehicle Loading Class - HS20-44 Maintenance Vehicle

Seismic Performance Category A (Acc. = 0.03g)

Reinforcing shall conform to ASTM Specification A615 (AASHTO M31). All reinforcing shall be furnished as Grade 60 (fy=60,000 psi).

All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise. All bend or hook dimensions not shown shall be standard bends or hooks.

All reinforcing shall have 2 inches clear cover unless noted otherwise.

Prestressing steel shall conform to ASTM Specification A416 (AASHTO M203) Uncoated Seven-Wire Stress Relieved Steel Strand for Prestressed Concrete, Low-Relaxation, ½" nominal diameter, Grade 270.

Stresses:

Precast-Prestressed Concrete	f'c = 5,000 psi
Abutments and Drilled Shafts (MAG Class A)	f'c = 3,000 psi
All other concrete (MAG Class AA)	f'c = 4,000 psi
Grade 60 reinforcing steel	fs = 24,000 psi
Prestressing Steel	f's = 270,000 psi
Allowable concrete tension stress in the precompressed tensile zone at service load after losses have occurred	f_t = 424 psi.

Slabs shall be prestressed by the pretensioning method only.

Chamfer all exposed corners ¾" unless noted otherwise.

Dimensions shall not be scaled from drawings.

See Drilled Shaft Notes for drilled shaft foundation information.

See Special Provisions for staining of exposed concrete and for rustication formliner.

APPROXIMATE QUANTITIES

	Class A Concrete f'c=3000 C.Y.	Class AA Concrete f'c=4000 C.Y.	Reinf. Steel lbs.	30" ϕ Drilled Shafts Lin. Ft.	AASHTO Precast Slab Each
Abutment #1	42		3917	175	
Abutment #2	42		3917	175	
Superstructure		122	7663		16
Approach Slab		145	22793		
Channel Walls		53	5954		
Total	84	320	44244	350	16
As-Built Total					

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

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Sverdrup CORPORATION

BID CANAL OVERCHUTE
GENERAL NOTES & QUANTITIES

SHEET 74 OF 81

b.dgn 12/6/93 Filename: mdgnote01 Plotted By: MAZARE Date: 09/10/1998

DEFINITIONS OF SOIL FRACTIONS

SOIL COMPONENT	PARTICAL SIZE RANGE
Cobbles	Above 3 inches
Gravel	3 inches to No. 4 sieve
Course gravel	3 inches to ¾ inch
Fine gravel	¾ inch to No. 4 sieve
Sand	No. 4 sieve to No. 200
Course	No. 4 sieve to No. 10
Medium	No. 10 sieve to No. 40
Fine	No. 40 sieve to No. 200
Fines (silt or clay)	Below No. 200 sieve

NOTES:

Information contained on Foundation Data sheets is made available to prospective bidders for information purposes only and is not to be considered a part of the contract documents.

Information is developed as accurately as possible by the methods utilized. However, the County accepts no responsibility for any conditions encountered which may be at variance from information contained herein.

Classification of materials is in accordance with AASHTO Manual on Foundation Investigation and is based upon field inspection and is not to be construed to imply mechanical analysis.

1. Relative Density. Terms for description of relative density of cohesionless, uncemented sands and sand-gravel mixtures.

N	Relative Density
0-4	Very loose
5-10	Loose
11-30	Medium dense
31-50	Dense
50	Very dense

2. Relative Consistency. Terms for description of clays which are saturated or near saturation.

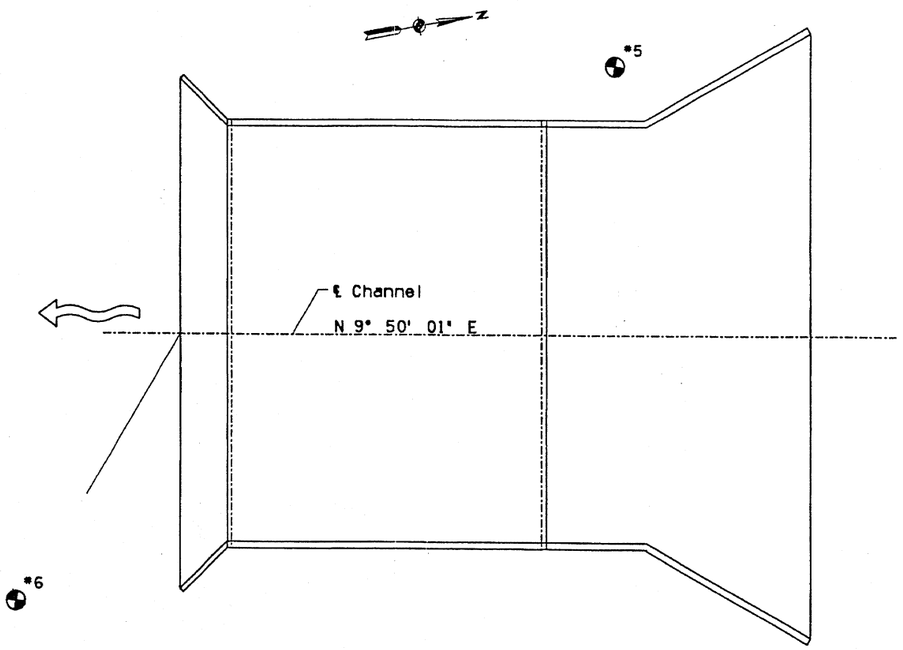
N	Relative Consistency	Remarks
0-4	Very soft	Easily penetrated several inches with fist.
3-4	Soft	Easily penetrated several inches with thumb.
5-8	Medium stiff	Can be penetrated several inches with thumb with moderate effort.
9-15	Stiff	Readily indented with thumb but penetrated only with great effort.
16-30	Very stiff	Readily indented with thumbnail
30+	Hard	Indented only with difficulty by thumbnail

3. Relative Firmness. Terms for description of partially saturated and/or cemented soils which commonly occur in the Southwest including clays, cemented granular materials, silts and silty and clayey granular soils.

N	Relative Density
0-4	Very soft
5-8	Soft
9-15	Moderately firm
16-30	Firm
31-50	Very firm
50+	Hard

4. Standard Penetraion Tests (SPT) = ☐

GRAPHIC SYMBOL	GROUP SYMBOL	TYPICAL NAMES
	GW	Well graded gravels, gravel - sand mixtures, or sand - gravel - cobble mixtures.
	GP	Poorly graded gravels, gravel - sand mixtures, or sand - gravel - cobble mixtures.
	GM	Silty gravels, gravel - sand - silt mixtures.
	GC	Clayey gravels, gravel - sand - clay mixtures.
	SW	Well graded sands, gravelly sands.
	SP	Poorly graded sands, gravelly sands.
	SM	Silty sands, sand - silty mixtures.
	SC	Clayey sands, sand - clay mixtures.
	ML	Inorganic silts, clayey silts with slight plasticity
	MH	Inorganic silts, micaceous or diatomaceous silty soils, elastic silts.
	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
	CH	Inorganic clays of high plasticity, fat clays, sandy clays of high plasticity.



BORING LOCATION PLAN
N. T. S.

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

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DESIGNED	D. HAYES	8/25/98
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ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

BID CANAL OVERCHUTE
FOUNDATION DATA SHEET 1

SHEET 75 OF 81

Filename: ##bgnpw## Plotted By: ##username## Date: ##plotdate##
b.dgn 12/6/93

Boring Location: 40 feet Left Channel ℄ Sta 30+60 North Bank BID Canal
Elevation of Boring: 913.0
Date of Boring: 9/18/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, silty SAND (SM), interbedded with gray-tan silty SAND (SM)				
	5		12			
	10	Gray-Tan, poorly graded GRAVEL (GP)	24	25	3.8	NP
	15	Trace of Gravel with Gravel, Moist	24			
	20	Water at 22.3' ▼	25	19	3.4	NP
	25		50/5"			
	30		39			
	35		11			
	40		33			
	45	Increasing % of gravel				
	50	(Bottom of Boring at 50 feet)				

Boring No. 5

Boring Location: 40 feet Right Channel ℄ Sta 29+60 South Bank BID Canal
Elevation of Boring: 910.0
Date of Boring: 9/19/97

Graphical Log	Depth (Feet)	SOIL DESCRIPTION	SPT Blows/ft	Ring Blows/ft	% Passing No. 200	Plasticity Index
		Brown, lean CLAY (CL), Moist			93.2	17
	5		27			
	10	Gray-Tan sandy SILT (ML), Moist				
		Brown, lean CLAY (CL), Wet	12		61.2	NP
	15	Gray-Tan sandy SILT (ML), Moist	3			
	20	Brown, lean CLAY (CL), Wet				
		Gray, poorly graded GRAVEL (GP) Water at 22.35' ▼	30			
	25		18			
	30		66			
	35		29			
	40		47			
	45	With gravel	38			
	50		50/6"			
		(Bottom of Boring at 50½ feet)				

Boring No. 6

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	D. HAYES	8/25/98
DRAWN	A. OSORIO	9/08/98
CHECKED	A. OSORIO	9/08/98

ATL, INC.
CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

BID CANAL OVERCHUTE
FOUNDATION DATA SHEET 2

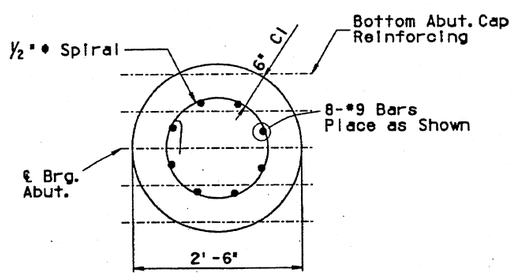
SHEET 76 OF 81

Filename: mdgspec#
Plotted By: mdgcr# Date: mplotdate#
b.dgn 12/6/93

DRILLED SHAFT NOTES

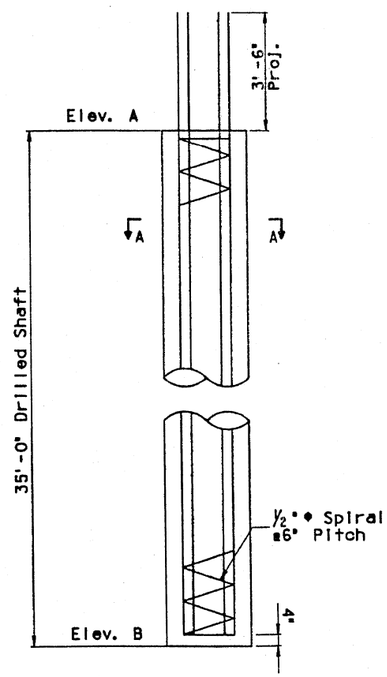
1. Construction of Drilled Shaft Foundations shall be in accordance with the Special Provisions and as noted below.
2. If the site soils exhibit caving tendencies, or if ground water is present within the depth of foundations, slurry-assisted drilling techniques may be required subject to the requirements of the Special Provisions. As an alternative, these portions of shaft borings may be supported with steel casings. If steel casings are used, the casings may be either left in place or removed, subject to the requirements of the Special Provisions.
3. No construction joints shall be permitted in drilled shafts.
4. No splicing of vertical reinforcing bars shall be permitted in the drilled shafts.
5. Allowable axial load for 30" dia. drilled shafts is 265 kips.
6. When the test borings were drilled on September 18 and 19, 1997, groundwater in the test holes was observed at Elev. 890.7 in Boring No. 5 and at Elev. 887.7 in Boring No. 6.

Shaft Number	Elev. A	Elev. B
1	899.98	864.98
2	899.98	864.98
3	899.98	864.98
4	899.98	864.98
5	899.98	864.98
6	900.05	865.05
7	900.05	865.05
8	900.05	865.05
9	900.05	865.05
10	900.05	865.05



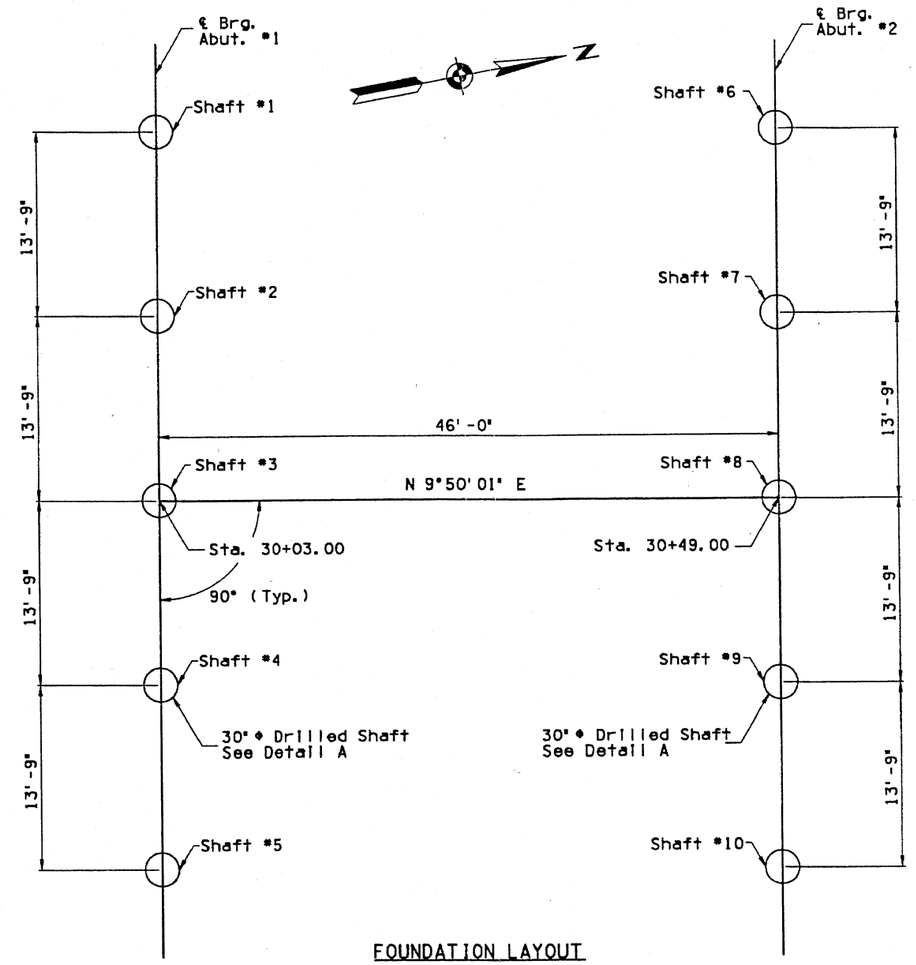
SECTION A-A

Scale: 1"=1'-0"



DETAIL A

Scale: 1"=2'-0"



FOUNDATION LAYOUT

Scale: 1"=5'-0"

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

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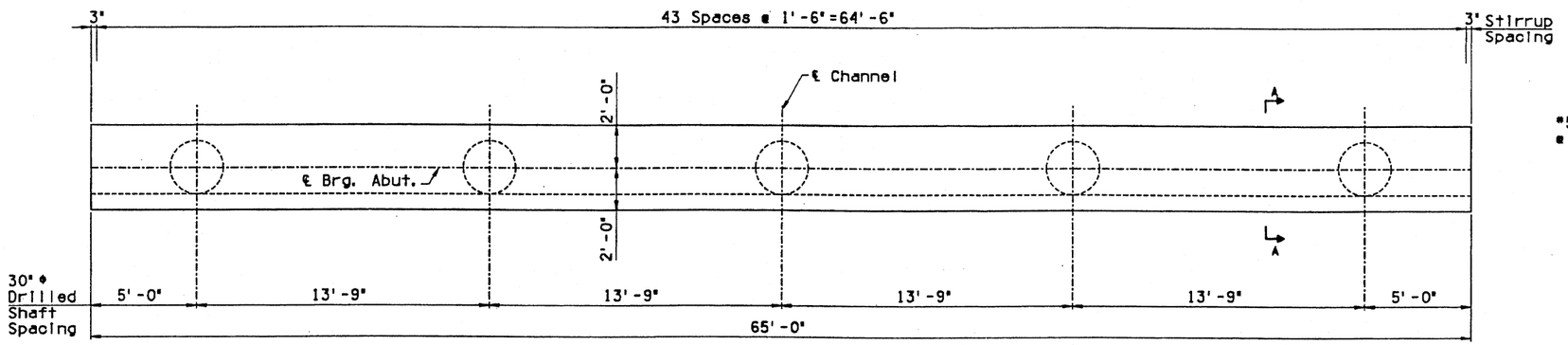
DRAWN	R. SHISHIDO	9/08/98
CHECKED	C. RODRIGUEZ	9/08/98

Sverdrup CORPORATION

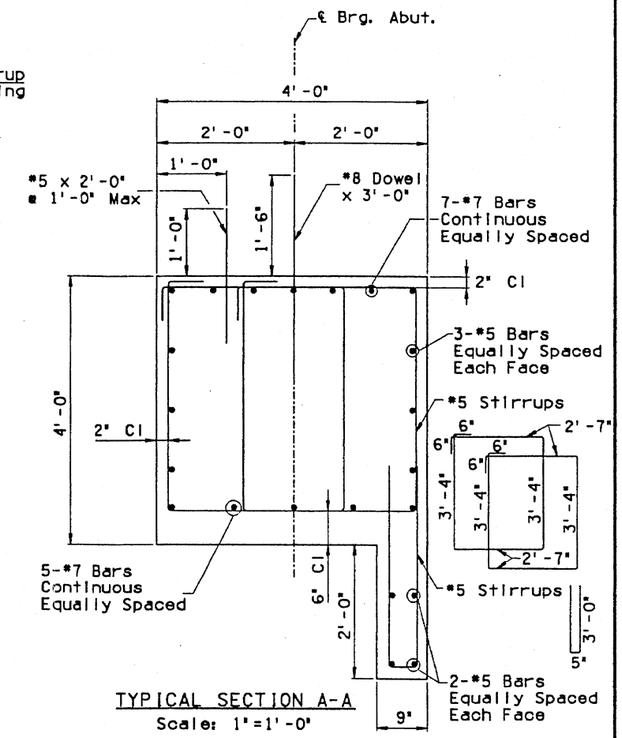
BID CANAL OVERCHUTE
FDTN. LAYOUT & DRILLED SHAFT DETAILS

SHEET 77 OF 81

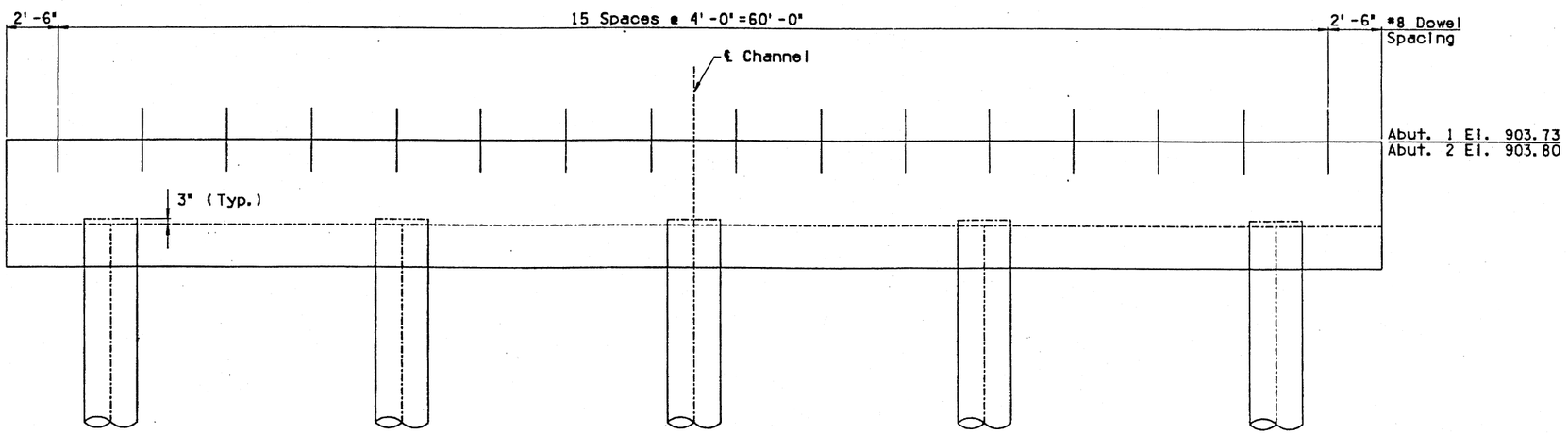
Filename: mdgspec9
Plotted By: mdsers Date: mm/dd/dd
b:dgn 12/6/93



ABUTMENT PLAN
Scale: 1"=3'-0"



TYPICAL SECTION A-A
Scale: 1"=1'-0"



ABUTMENT ELEVATION
Scale: 1"=3'-0"

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

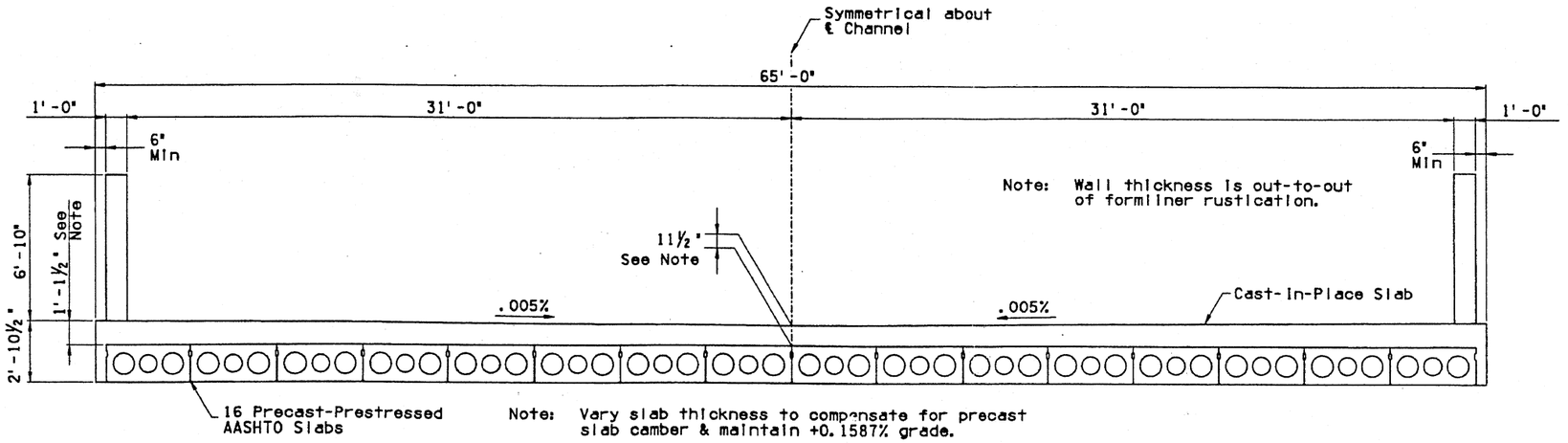
	BY	DATE
DESIGNED	J. FISCHER	8/25/98
DRAWN	R. SHISHIDO	9/08/98
CHECKED	C. RODRIGUEZ	9/08/98

Sverdrup CORPORATION

BID CANAL OVERCHUTE
ABUTMENT DETAILS, PLAN & ELEVATION

SHEET 78 OF 81

Filename: #dgnpage#
Plotted By: #usger# Date: #plotdate#
bdgn 12/6/93



TYPICAL SECTION
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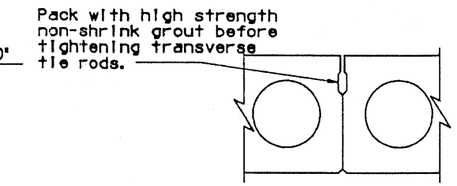
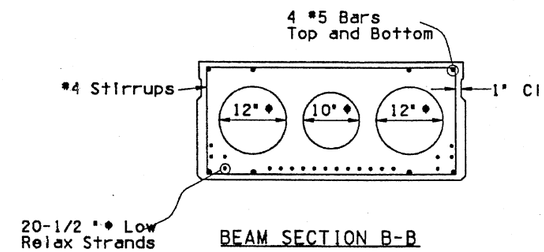
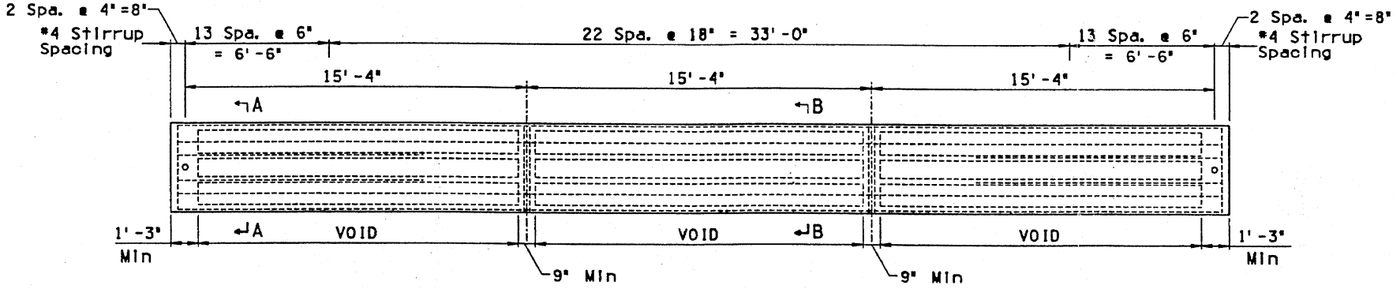


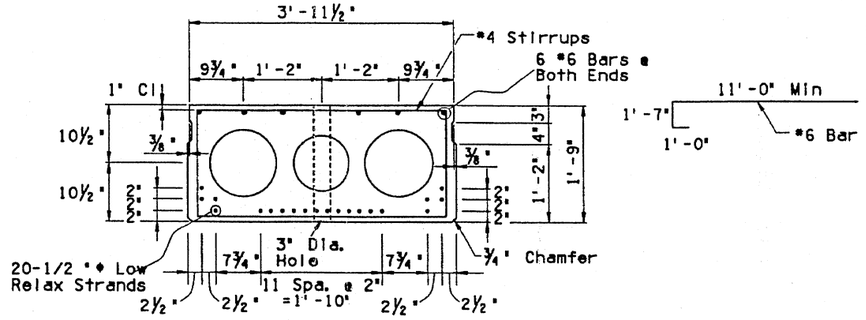
SHEAR KEY DETAIL
Scale: 1"=1'-0"



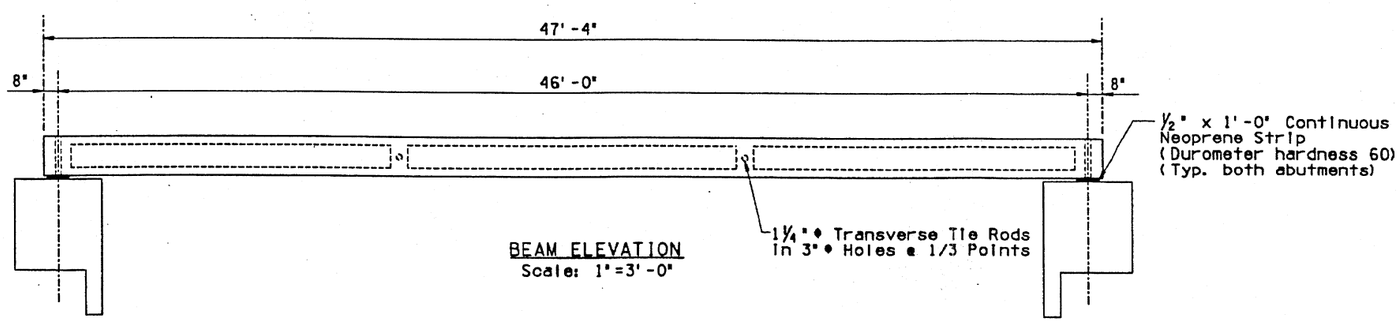
BEAM SECTION B-B
Scale: 1"=1'-0"



PLAN OF BEAM
Scale: 1"=3'-0"



BEAM SECTION A-A
Scale: 1"=1'-0"



BEAM ELEVATION
Scale: 1"=3'-0"

NO.	REVISION	BY	DATE
3			
2			
1			

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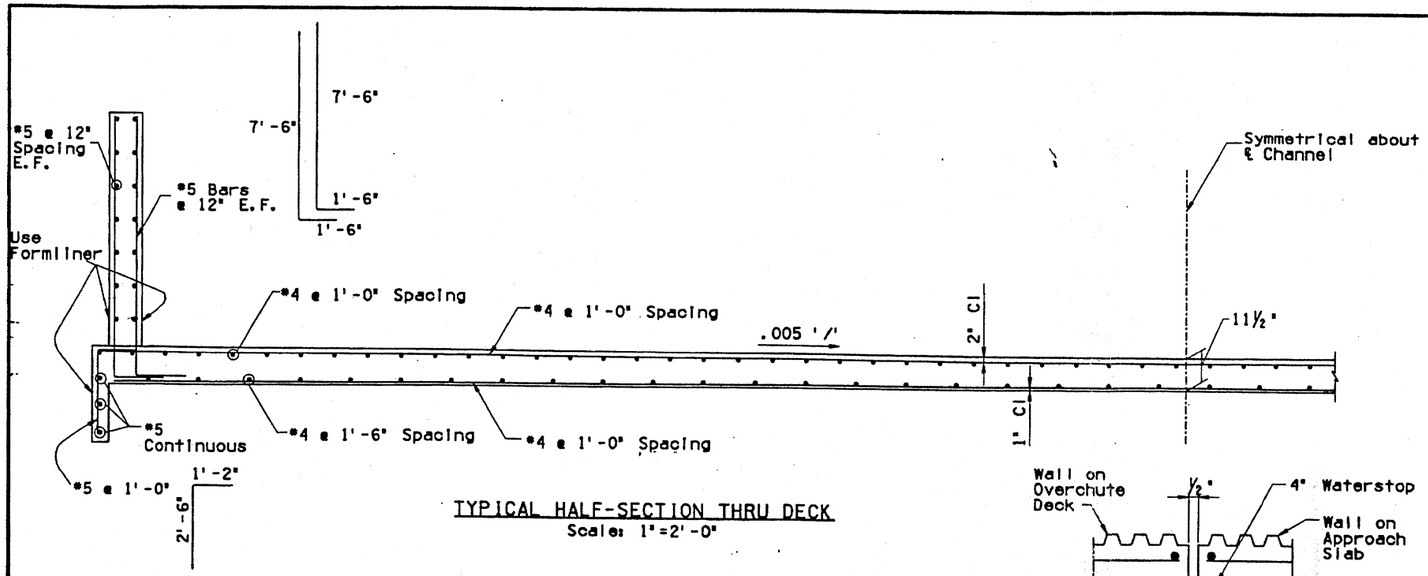
Sverdrup CORPORATION

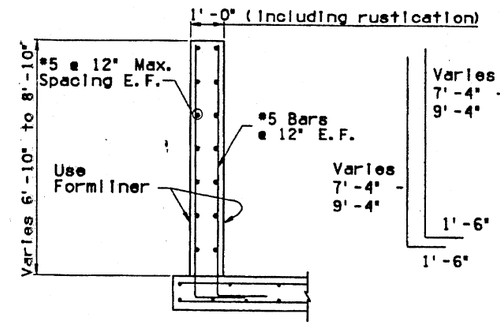
BID CANAL OVERCHUTE
PRECAST-PRESTRESSED SLAB DETAILS

SHEET 79 OF 81

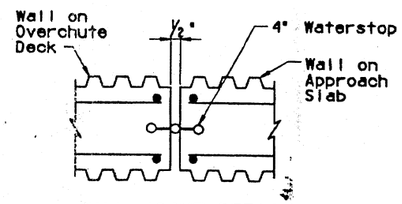
b.dgn 12/6/93
Filename: 04gspec0
Plotted By: RSGarth Date: 09/08/98



TYPICAL HALF-SECTION THRU DECK
Scale: 1"=2'-0"

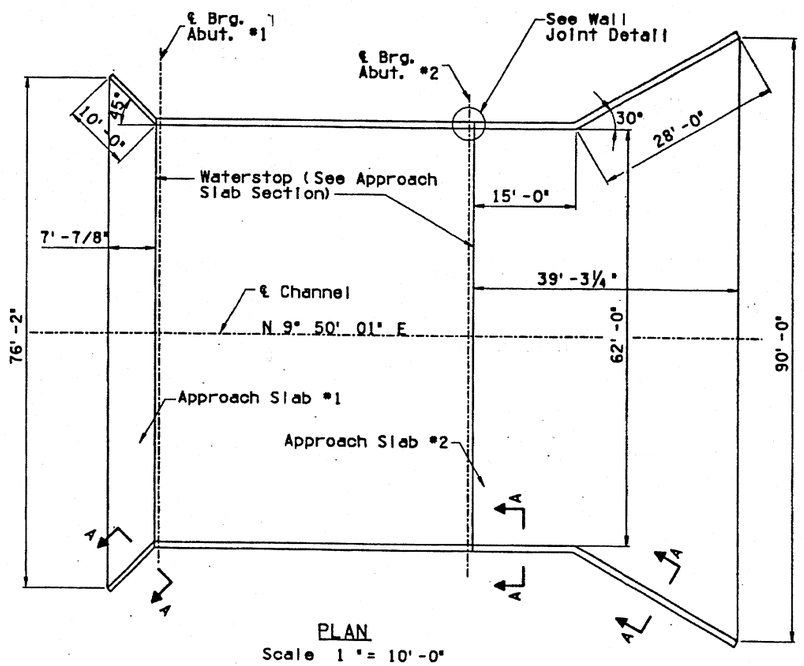


SECTION A-A
Scale: 1"=2'-0"

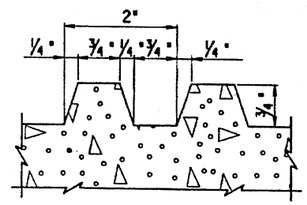


WALL JOINT DETAIL
N. T. S.

Typical at all four corners of Overchute. Joint to line up with joint between overchute deck and approach slab.



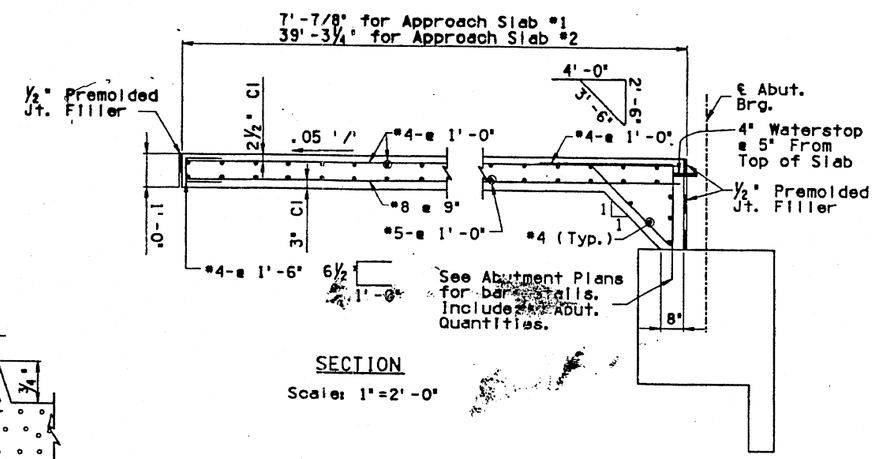
PLAN
Scale 1 "= 10'-0"



FORMLINER RUSTICATION DETAIL
N. T. S.

Typical both faces of overchute, approach slab walls and edge of deck slab.

2" bar cover shall be measured from deepest part of rustication.



SECTION
Scale: 1"=2'-0"

NO.	REVISION	BY	DATE
3			
2			
1			

MARICOPA COUNTY
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION

BULLARD WASH
CHANNEL IMPROVEMENTS PROJECT
PROJECT NO. 4700731

	BY	DATE
DESIGNED	J. FISCHER	8/25/98
DRAWN	R. SHISHIDO	9/08/98
CHECKED	C. RODRIGUEZ	9/08/98

Sverdrup CORPORATION

BID CANAL OVERCHUTE
DECK, APPROACH SLAB & WALL DETAILS

SHEET 80 OF 81

b.dgn 12/6/93 Filename: mdrgpcom Plotted By: mspence Date: mplot6plus

DRAINAGE AREA MAP
WHITE TANKS/AGUA FRIA
AREA DRAINAGE MASTER STUDY

LEGEND

DRAINAGE AREA BOUNDARY

SUBBASIN BOUNDARY

SUBBASIN INDENTIFICATION

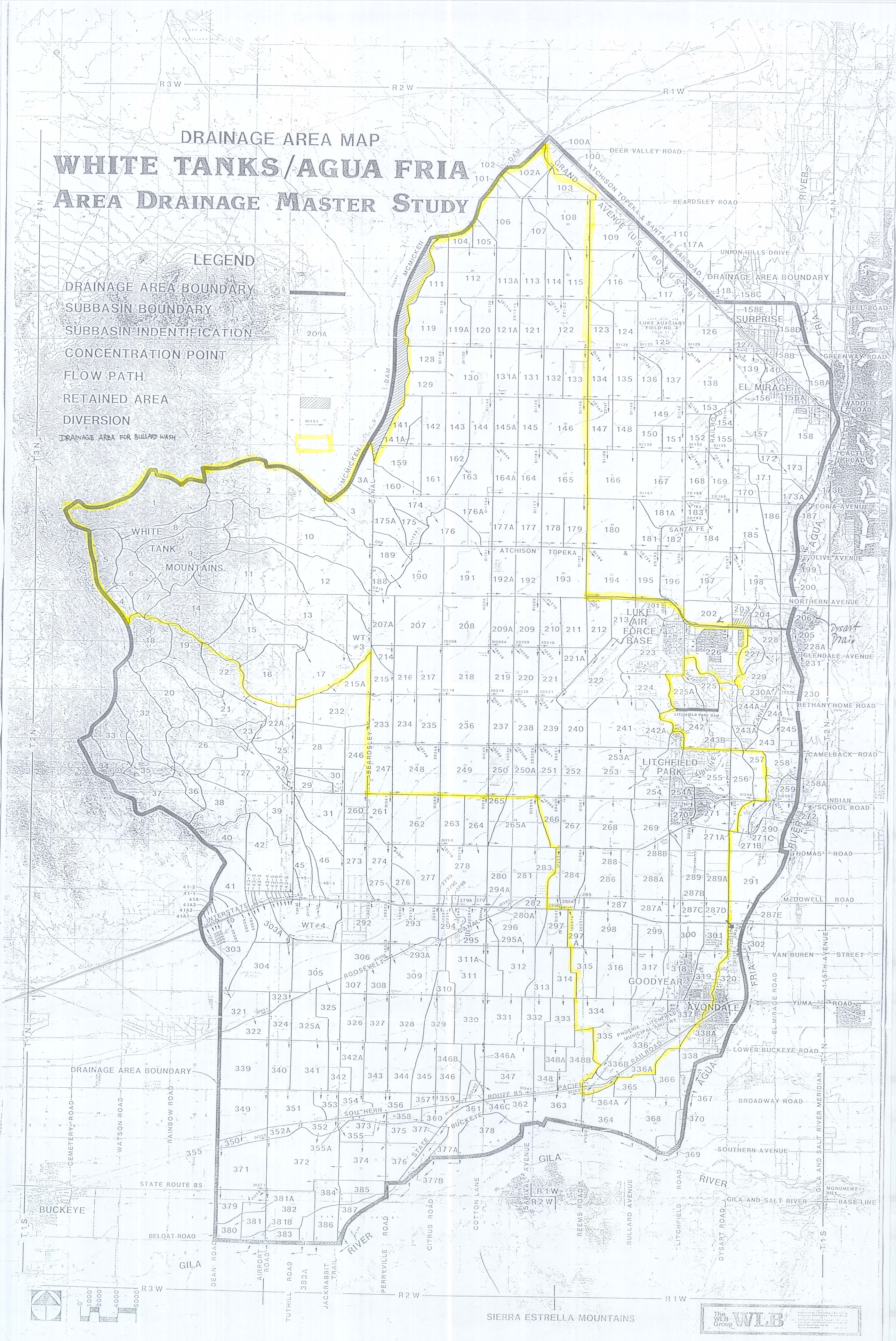
CONCENTRATION POINT

FLOW PATH

RETAINED AREA

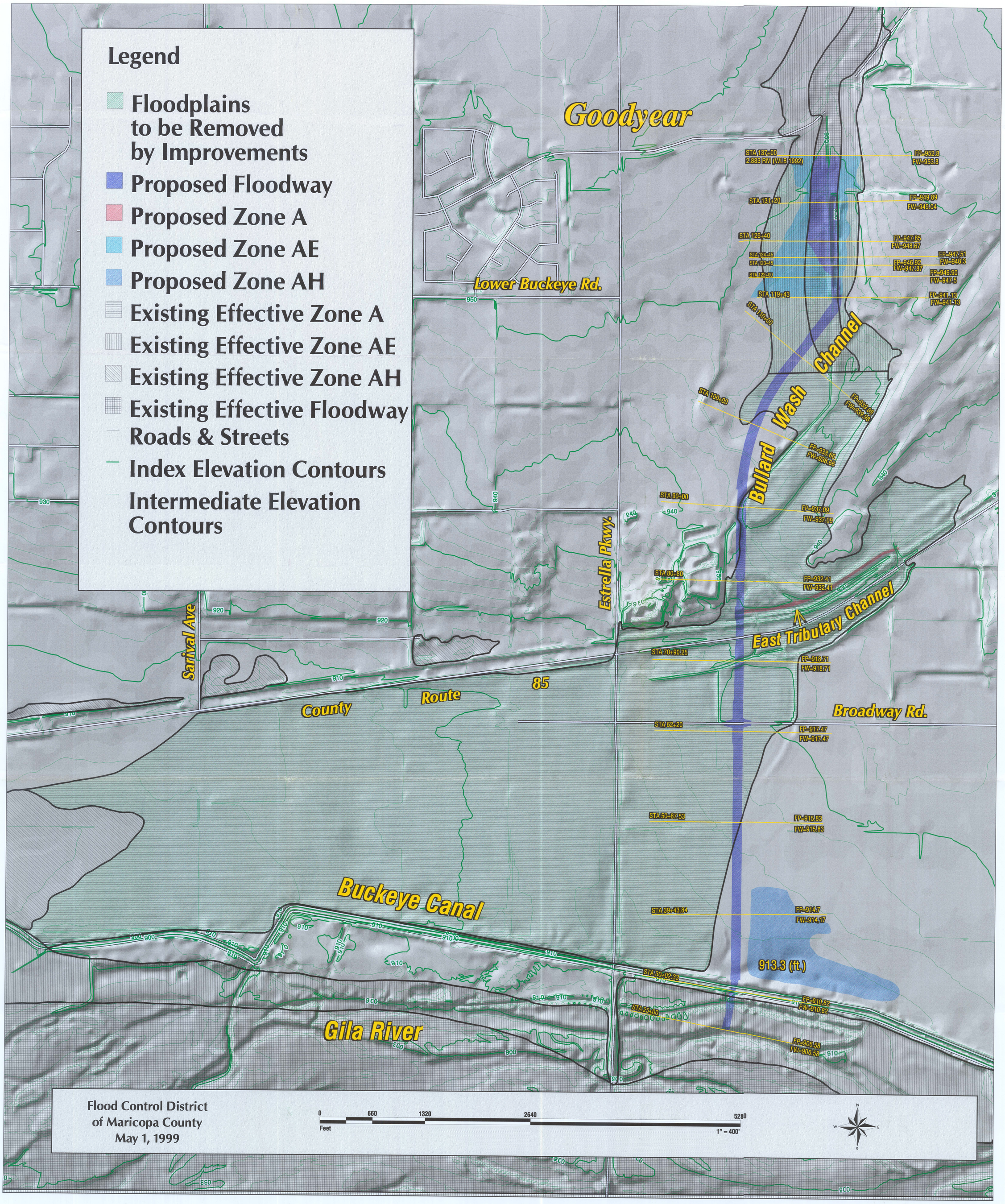
DIVERSION

DRAINAGE AREA FOR BULLARD WASH



The WLB Group Inc. WLB

Bullard Wash Channel Improvements



map prepared by Steve Bruffy

Exhibit C **Drainage Map for Bullard Wash Channel Improvements**