Letter of Map Revision
For
Sweetwater Park

Phoenix, Arizona

Prepared by:

J2 Engineering & Environmental Design
8222 S. 48th Street Suite 135
Phoenix, Arizona 85044

Prepared for:

City of Phoenix
200 W. Washington Street
5th Floor
Phoenix, Arizona 85003

October 2004

City of Phoenix
STREET TRANSPORTATION DEPARTMENT

November 9, 2004

FEMA LOMR DEPOT
3601 Eisenhower Avenue
Alexandria, VA 22304

Case No: 02-09-1021R
Community: City of Phoenix
Community No: 040051

Re: Letter of Map Revision (LOMR), for Cave Creek Wash
Panel 04013C1655J, July 19, 2001

This is a Letter of Map Revision (LOMR) application for Cave Creek Wash following an approved Conditional Letter of Map Revision (CLOMR) dated May 14, 2003. The following items are included in this application as supporting documents.

ITEMS:

1. A check in the amount of $3,800.00, including Payment Information Form.
2. Detailed application and certification form included in Appendix B.
3. As-built plan, certified by a registered professional engineer is included in Appendix D.
4. Community Acknowledgement of the map revision is included in item 2 above, Overview and Concurrence Form, MT-2 Form 1.
5. Supporting documentation complying with 44 CFR 65.12 have been provided in a letter Dated February 14, 2003. A copy of the letter is included in Appendix E.
6. A copy of the Street Maintenance Division Policy and Procedure 4.14 and a copy of the Floodplain Ordinance is included in Appendix F.

If you have technical any questions concerning this project, please contact Jeff Holzmeister, P.E., J2 Engineering and Environmental Design, LLC, 8222 S. 48th Street, Suite 135, Phoenix AZ 85044, phone number 602-438-2221, fax number 602-438-2225. If you have any other questions, please contact this office at 602-262-4960.

Sincerely,

Hasan Mushtaq Ph.D., P. E., CFM
Floodplain Manager

Cc: Jeff Holzmeister, P.E., J2 Engineering & Environmental Design, LLC.
Tim Murphy, P.E., CFM, FCDMC
Brian Cosson, ADWR/Arizona Department of Resources

FLOOD CONTROL DISTRICT
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Federal Emergency Management Agency

Washington, D.C. 20472

MAY 14 2003

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 02-09-1021R

The Honorable Skip Rimsza
Mayor, City of Phoenix
Phoenix City Hall
200 West Washington Street, 11th Floor
Phoenix, AZ 85003

Community: City of Phoenix, AZ
Community No.: 040051

104

Dear Mayor Rimsza:

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 22, 2002, Hasan Mushtaq, Ph.D., P.E., C.F.M., Floodplain Manager, Street Transportation Department, City of Phoenix, requested that FEMA evaluate the effects that a proposed project along Cave Creek Wash would have on the flood hazard information shown on the effective FIRM and FIS report. The project will include construction of a pedestrian bridge over Cave Creek Wash approximately 100 feet upstream of the confluence with Moon Valley Wash (confluence) and placement of fill within the floodway fringe and updated topographic information along Cave Creek Wash from approximately 50 feet upstream to approximately 1,500 feet upstream of the confluence.

All data required to complete our review of this request for a Conditional Letter of Map Revision (CLOMR) were submitted with letters from Mr. Anthony Regis, P.E., Civil Engineer, Premier Engineering Corporation, and Dr. Mushtaq.

We reviewed the submitted data and the data used to prepare the effective FIRM for your community and determined that the proposed project meets the minimum floodplain management criteria of the NFIP. The submitted corrected effective HEC-2 hydraulic computer models, dated June 11, 2002, for unencroached conditions and February 13, 2003, for encroached conditions, based on updated topographic information and additional cross sections, were used as the base conditions models in our review of the proposed conditions models for this CLOMR request. We believe that, if the proposed project is constructed as shown on the submitted undated plan entitled "Sweetwater Park, Grading Plan and Floodplain/Floodway Delineations Work map," and the data listed below are received, a revision to the floodplain boundaries of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) would be warranted.

The corrected effective HEC-2 models for the floodplain and regulatory floodway along Cave Creek were generated by incorporating updated topographic information and additional cross sections into the submitted duplicate effective HEC-2 models. Our comparison of the corrected effective models to the effective flood hazard information revealed that the Base Flood Elevations (BFEs) for Cave Creek increased, and the width of the Special Flood Hazard Area (SFHA), the area that would be inundated by the base flood, decreased. The maximum increase in BFE, 0.52 foot, occurred approximately 900 feet upstream of the confluence. The maximum decrease in SFHA width, approximately 50 feet, occurred

approximately 1,500 feet upstream of the confluence. The width of the regulatory floodway did not change.

The proposed conditions encroached and unencroached HEC-2 models for the floodplain and regulatory floodway along Cave Creek were generated by incorporating into the respective corrected effective models the proposed pedestrian bridge approximately 100 feet upstream of the confluence and the proposed placement of fill in the floodway fringe from approximately 50 feet upstream to approximately 1,500 feet upstream of the confluence. As a result of the proposed project, the BFEs will increase, and the widths of the SFHA and the regulatory floodway will decrease compared to the corrected effective flood hazard information along Cave Creek. The maximum increase in BFE, 0.5 foot, will occur approximately 50 feet upstream of the confluence. The maximum decrease in SFHA width, approximately 20 feet, will occur approximately 50 feet upstream of the confluence. The maximum decrease in floodway width, approximately 5 feet, will occur approximately 100 feet upstream of the confluence. Because of scale limitations, this redelineation of the floodway boundary could not be mapped.

As a result of the proposed project, additional cross sections, and updated topographic information, the BFEs will increase, the width of the SFHA will increase in some areas and decrease in other areas, and the width of the regulatory floodway will decrease compared to the effective flood hazard information along Cave Creek. The maximum increase in BFE, 1.0 foot, will occur approximately 50 feet upstream of the confluence. The maximum increase in SFHA width, approximately 35 feet, will occur approximately 50 feet upstream of the confluence. The maximum decrease in SFHA width, approximately 170 feet, will occur just upstream of the confluence. The maximum decrease in floodway width, approximately 5 feet, will occur approximately 100 feet upstream of the confluence. As noted above, because of scale limitations, this revision to the floodway boundary could not be mapped.

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 FIRM and FIS report.

- 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 "Overview & Concurrence 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 2, entitled "Riverine Hydrology & Hydraulics Form"

  Form 3, entitled "Riverine Structures Form"

  Hydraulic analyses, for as-built conditions, of the base flood, the floods having a 10- and 2-percent chance of being equaled or exceeded in any given year, and the regulatory floodway, together with a topographic work map showing the revised floodplain and floodway boundaries, must be submitted with Form 2.

- Effective September 1, 2002, 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 current fee for this map revision request is $3,800 and must be

received before we can begin processing the request. Please note, however, that the fee schedule is subject to change, and requesters are required to submit the fee in effect at the time of the submittal. 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-Charge 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

- The proposed project will involve the placement of bridge piers within the effective regulatory floodway. As provided for this CLOMR request, please submit a copy of the public notice distributed by your community stating its intent to revise the regulatory floodway, or a statement by your community that it has notified all affected property owners and affected adjacent jurisdictions.

- An officially adopted maintenance plan for the proposed pedestrian bridge. This plan, which may be in the form of a written statement from the community Chief Executive Officer, an ordinance, or other legislation, must describe the nature of the maintenance activities, the frequency with which they will be performed, and the title of the local community official who will be responsible for ensuring that the maintenance activities are accomplished.

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 bridge 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 bridge 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 calling the Chief, National Flood Insurance Program Branch, Federal Insurance and Mitigation Division of FEMA in Oakland, California, at (510) 627-7184. If you have any questions regarding this CLOMR, please call our Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627).

Sincerely,

Max H. Yuan, P.E., Project Engineer
Hazard Study Branch
Federal Insurance and
Mitigation Administration

For: Mary Jean Pajak, P.E., Acting Chief
Hazard Study Branch
Federal Insurance and
Mitigation Administration

Enclosures

cc: Hasan Mushtaq, Ph.D., P.E., C.F.M.
Floodplain Manager
Street Transportation Department
City of Phoenix

Ms. Shanna Yager
Branch Manager
Flood Control District of Maricopa County

Ms. Terri Miller
Executive Consultant
Mitigation Section
Arizona Division of Emergency
Management

Mr. Anthony J. Regis, P.E.
Civil Engineer
Premier Engineering Corporation

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

Letter of Map Revision
For
Sweetwater Park

Phoenix, Arizona

Prepared by:

J2 Engineering & Environmental Design
8222 S. 48th Street Suite 135
Phoenix, Arizona 85044

Prepared for:

City of Phoenix
200 W. Washington Street
5th Floor
Phoenix, Arizona 85003

October 2004

Introduction

J2 Engineering & Environmental Design (J2) has been contracted by the City of Phoenix, Arizona to provide landscape architecture and civil engineering services for the design of Sweetwater Park. The proposed park is located along both sides of Cave Creek Wash at the northwest corner of 23rd Avenue and Sweetwater Avenue in Phoenix, Arizona. The property location is shown on the attached annotated Flood Insurance Rate Map, map number 04013C1655J, dated Juy19, 2001. The FIRM shows a detailed floodplain/floodway delineation in the park area. The limit of the detailed study is located at the southern limit of the park (location of the proposed pedestrian bridge).

The proposed park site includes minimal grading within the floodway fringe areas and the construction of a pedestrian bridge across Cave Creek Wash (the structure spans the floodway). The proposed bridge includes two 4-foot diameter piers within the floodway.

A CLOMR was prepared and approved for the project. The CLOMR approval letter is contained in Appendix A.

The LOMR application package provides documentation of J2's engineering analyses arranged in order of the requirements stated in the CLOMR approval letter. Along with each form is a discussion of items that may need further explanation.

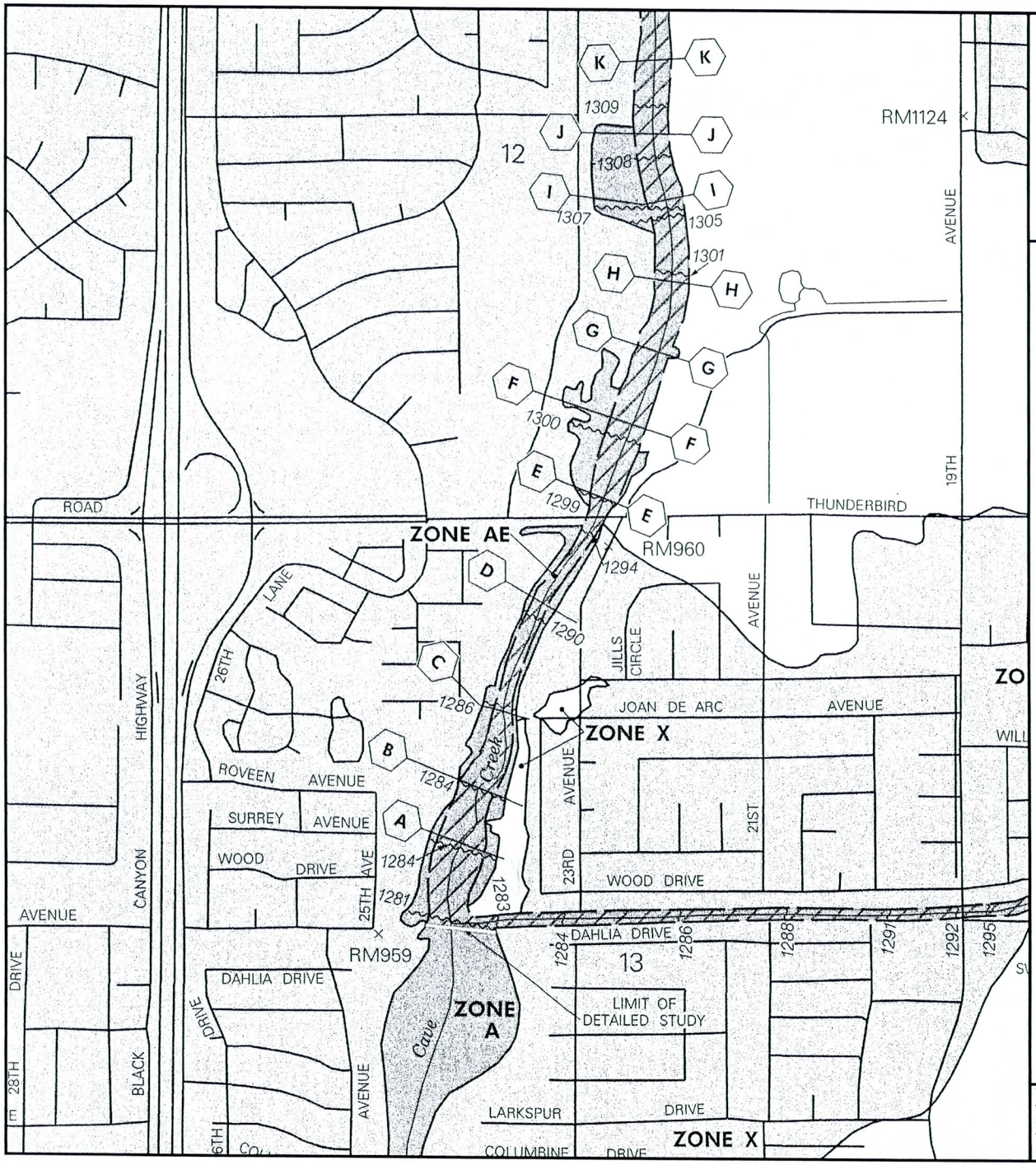
The following paragraphs define the requirements outlined in the CLOMR approval letter and the attached documentation:

Comment No. 1 - 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 the letter is submitted, Form 1, entitled "Overview and Concurrence Form," must be included. (A copy of this form is enclosed.)

Response No. 1 - The "Overview and Concurrence Form" is included in Appendix B of the LOMR application.

Comment No. 2 - 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 2, entitled "Riverine Hydrology & Hydraulics Form"



APPROXIMATE SCALE IN FEET

1000 0 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

MARICOPA COUNTY, ARIZONA AND INCORPORATED AREAS

PANEL 1655 OF 4350

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
PHOENIX, CITY OF	040051	1655	J

MAP NUMBER
04013C1655 J

MAP REVISED:
JULY 19, 2001

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Form 3, entitled "Riverine Structures Form"

Hydraulic analyses, for as-built conditions, of the base flood, the floods having a 10- and 2-percent chance of being equaled or exceeded in any given year, and the regulatory floodway, together with a topographic work map showing the revised floodplain and floodway boundaries, must be submitted with Form 2.

Response No. 2 – Form No. 2 – "Riverine Hydrology & Hydraulics Form" is enclosed in Appendix B. Form No. 3 - "Riverine Structures Form" was not included. A letter from the Construction Manager stating that the pedestrian bridge was constructed according to the dimensions shown on the plans is included in Appendix B. In addition, an as-built survey for the park site and cross sections showing the existing condition (pre-construction) and as-built condition (post-construction) are included in Appendix E. The cross section demonstrates the minimal change in topography (based on two independent aerial flights).

A topographic work map showing changes to the floodplain/floodway boundary are included Appendix B. The changes to the floodplain/floodway boundary are minimal and may not be seen on a standard FIRM panel. The work map for the floodplain/floodway delineation is shown in Appendix D. HEC-2 models for the corrected effective model, the corrected effective floodway model, the post design floodway model, the 10-year model, and the 50-year model are shown in Appendix C.

Comment No. 3 – Effective September 1, 2002, 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 current fee for this map revision request is $3,800 and must be received before we can begin processing the request…

Response No.3 – The review fee of $3,800 payable to the National Flood Insurance Program was mailed to the following address:

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

A copy of the payment form is contained in Appendix B.

Comment No. 4 – As-built plans, certified by a registered professional engineer, of all the project elements.

Response No. 4 - As-built topography for the site was obtained by aerial mapping. The as-built topographic mapping is contained in Appendix D. The mapping was sealed by a registered surveyor (the person responsible for the aerial mapping). Construction notes from the construction manager are included in Appendix D. A letter from the construction manager stating that the pedestrian bridge was constructed according to the plan dimensions is contained in Appendix D. The prefabricated pedestrian steel bridge piers were the only structural elements constructed in the floodplain. The bridge was built per plans. A copy of the plan sheet showing the layout of the bridge is provided in Appendix D.

Cross sections comparing the pre-construction condition and the post-construction condition are contained in Appendix D. The beginning of analysis was begun at RM 17.503, the beginning of the existing floodway delineation. The cross sections indicate minimal changes in topography. The majority of the variation is within the accuracy of the mapping (different control survey, different flight several years apart).

Comment No. 4 – Community Acknowledgement of the map revision request

Response No.4 – Team members contacted FEMA and were told that the Overview and Concurrence Form serves as the community acknowledgement.

Comment No. 5 – The proposed project will involve the placement of bridge piers within the effective regulatory floodway. As provided for this CLOMR request, please submit a copy of the public notice distributed by your community stating its intent to revise the regulatory floodway, or a statement by your community that it had notified all affected property owners and affected adjacent jurisdictions.

Response No.5 – Team members contacted FEMA and were told it was best to publish a public notice in a local newspaper to document the proposed improvements even though the only affected property owner is the City of Phoenix. A copy of the public notice is contained in Appendix E.

Comment No. 6 – An officially adopted maintenance plan for the proposed pedestrian bridge. This plan, which may be in the form of a written statement form the community Chief Executive Officer, an ordinance, or other legislation, must describe the nature of the maintenance activities, the frequency with which they will be performed, and the title of the local company official who will be responsible for ensuring that the maintenance activities are accomplished.

Response No. 6 – The subject bridge inspected biannually per City bridge inspection policies. Additionally, City personnel shall be continually observing the structure since it is located in the park. A letter indicating that the general maintenance is provided in Appendix F.

List of Appendices

Appendix A	CLOMR Approval Letter
Appendix B	FEMA Forms
Appendix C	HEC-2 Models
Appendix D	Maps & Construction Documents
Appendix E	Public Notice
Appendix F	Bridge Maintenance Agreement

Appendix A

CLOMR Approval Letter
May 14, 2004

Federal Emergency Management Agency

Washington, D.C. 20472

MAY 14 2003

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 02-09-1021R

The Honorable Skip Rimsza
Mayor, City of Phoenix
Phoenix City Hall
200 West Washington Street, 11th Floor
Phoenix, AZ 85003

Community: City of Phoenix, AZ
Community No.: 040051

104

Dear Mayor Rimsza:

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All data required to complete our review of this request for a Conditional Letter of Map Revision (CLOMR) were submitted with letters from Mr. Anthony Regis, P.E., Civil Engineer, Premier Engineering Corporation, and Dr. Mushtaq.

We reviewed the submitted data and the data used to prepare the effective FIRM for your community and determined that the proposed project meets the minimum floodplain management criteria of the NFIP. The submitted corrected effective HEC-2 hydraulic computer models, dated June 11, 2002, for unencroached conditions and February 13, 2003, for encroached conditions, based on updated topographic information and additional cross sections, were used as the base conditions models in our review of the proposed conditions models for this CLOMR request. We believe that, if the proposed project is constructed as shown on the submitted undated plan entitled "Sweetwater Park, Grading Plan and Floodplain/Floodway Delineations Work map," and the data listed below are received, a revision to the floodplain boundaries of the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood) would be warranted.

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Federal Emergency Management Agency
Fee-Charge 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
- The proposed project will involve the placement of bridge piers within the effective regulatory floodway. As provided for this CLOMR request, please submit a copy of the public notice distributed by your community stating its intent to revise the regulatory floodway, or a statement by your community that it has notified all affected property owners and affected adjacent jurisdictions.
- An officially adopted maintenance plan for the proposed pedestrian bridge. This plan, which may be in the form of a written statement from the community Chief Executive Officer, an ordinance, or other legislation, must describe the nature of the maintenance activities, the frequency with which they will be performed, and the title of the local community official who will be responsible for ensuring that the maintenance activities are accomplished.

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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 calling the Chief, National Flood Insurance Program Branch, Federal Insurance and Mitigation Division of FEMA in Oakland, California, at (510) 627-7184. If you have any questions regarding this CLOMR, please call our Map Assistance Center, toll free, at 1-877-FEMA MAP (1-877-336-2627).

Sincerely,

Max H. Yuan, P.E., Project Engineer
Hazard Study Branch
Federal Insurance and
Mitigation Administration

For: Mary Jean Pajak, P.E., Acting Chief
Hazard Study Branch
Federal Insurance and
Mitigation Administration

Enclosures

cc: Hasan Mushtaq, Ph.D., P.E., C.F.M.
Floodplain Manager
Street Transportation Department
City of Phoenix

Ms. Shanna Yager
Branch Manager
Flood Control District of Maricopa County

Ms. Terri Miller
Executive Consultant
Mitigation Section
Arizona Division of Emergency
Management

Mr. Anthony J. Regis, P.E.
Civil Engineer
Premier Engineering Corporation

Appendix B

MT-2 Form 1
Overview & Concurrence Form

MT-2 Form 2
Riverine Hydrology & Hydraulics Form

Payment Form

FEDERAL EMERGENCY MANAGEMENT AGENCY

OVERVIEW & CONCURRENCE FORM

O.M.B No. 3067-0148
Expires September 30, 2005

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hour per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this 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, SW, Washington DC 20472, Paperwork Reduction Project (3067-0148). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

A. REQUESTED RESPONSE FROM FEMA

This request is for a (check one):

☐ 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, regulatory floodway or flood elevations. (See Parts 60 & 65 of the NFIP Regulations.)

B. OVERVIEW

1. 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	City of Katy	TX	480301	0005D	02/08/83
480287	Harris County	TX	48201C	0220G	09/28/90
040051	City of Phoenix	AZ	04013	1655 J	7/19/01

2. Flooding Source: Cave Creek

3. Project Name/Identifier: Sweetwater Park

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

5. Basis for Request and Type of Revision:

a. The basis for this revision request is (check all that apply)

☒ Physical Change ☐ Improved Methodology/Data

☒ Regulatory Floodway Revision ☐ Other (Attach Description)

Note: A photograph and narrative description of the area of concern is not required, but is very helpful during review.

b. The area of revision encompasses the following types of flooding and structures (check all that apply)

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

C. REVIEW FEE

Has the review fee for the appropriate request category been included? ☒ Yes Fee amount: $ 3800

☐ No, Attach Explanation

Please see the FEMA Web site at http://www.fema.gov/fhm/frm_fees.shtm **for Fee Amounts and Exemptions.**

D. SIGNATURE

All documents submitted in support of this request are 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: Mike Bornhoeft	Company: City of Phoenix	
Mailing Address: 200 W. Washington St Phoenix, Az 85003-1611	Daytime Telephone No.: (602) 262-6653	Fax No.: (602) 261-8881
	E-Mail Address: mbornhoe@ci.phoenix.az.us	
Signature of Requester (required):		Date:

As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this Letter of Map Revision (LOMR) or conditional LOMR request. Based upon the community's review, we find the completed or proposed project meets or is designed to meet all of the community floodplain management requirements, including the requirement that no fill be placed in the regulatory floodway, and that all necessary Federal, State, and local permits have been, or in the case of a conditional LOMR, will be obtained. In addition, we have determined that the land and any existing or proposed structures to be removed from the SFHA are or will be reasonably safe from flooding as defined in 44CFR 65.2(c), and that we have available upon request by FEMA, all analyses and documentation used to make this determination.

Community Official's Name and Title: Hasan Mushtaq Floodplain Manager		Telephone No.: (602) 262-4026
Community Name: City of Phoenix	Community Official's Signature (required): Hmushtaq	Date: 11/9/04

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information. All documents submitted in support of this request are 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.

Certifier's Name: Jeffrey J Holzmeister	License No.: Az 23170	Expiration Date: 3/31/06
Company Name: J2 Engineering & Environmental Design	Telephone No.: (602) 438-2221	Fax No.: (602) 438-2225
Signature: Jeffrey J Holzmeister		Date: 10/19/04

Ensure the forms that are appropriate to your revision request are included in your submittal.

Form Name and (Number)	Required if ...
☒ Riverine Hydrology and Hydraulics Form (Form 2)	New or revised discharges or water-surface elevations
☐ Riverine Structures Form (Form 3)	Channel is modified, addition/revision of bridge/culverts, addition/revision of levee/floodwall, addition/revision of dam
☐ Coastal Analysis Form (Form 4)	New or revised coastal elevations
☐ Coastal Structures Form (Form 5)	Addition/revision of coastal structure
☐ Alluvial Fan Flooding Form (Form 6)	Flood control measures on alluvial fans

FEDERAL EMERGENCY MANAGEMENT AGENCY

RIVERINE HYDROLOGY & HYDRAULICS FORM

O.M.B No. 3067-0148
Expires September 30, 2005

PAPERWORK REDUCTION ACT

Public reporting burden for this form is estimated to average 3 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this 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, SW, Washington DC 20472, Paperwork Reduction Project (3067-0148). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

Flooding Source:
Note: Fill out one form for each flooding source studied

A. HYDROLOGY

1. Reason for New Hydrologic Analysis (check all that apply)

☒ Not revised (skip to section 2) ☐ No existing analysis ☐ Improved data
☐ Alternative methodology ☐ Proposed Conditions (CLOMR) ☐ Changed physical condition of watershed

2. Comparison of Representative 1%-Annual-Chance Discharges

Location	Drainage Area (Sq. Mi.)	FIS (cfs)	Revised (cfs)

3. Methodology for New Hydrologic Analysis (check all that apply)

☐ Statistical Analysis of Gage Records ☐ Precipitation/Runoff Model [TR-20, HEC-1, HEC-HMS etc.]
☐ Regional Regression Equations ☐ Other (please attach description)

Please enclose all relevant models in digital format, maps, computations (including computation of parameters) and documentation to support the new analysis. The document, "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by FEMA. This document can be found at: http://www.fema.gov/fhm/en_modl.shtm.

4. Review/Approval of Analysis

If your community requires a regional, state, or federal agency to review the hydrologic analysis, please attach evidence of approval/review.

5. Impacts of Sediment Transport on Hydrology

Was sediment transport considered? ☐ Yes ☒ No If yes, then fill out Section F (Sediment Transport) of Form 3. If No, then attach your explanation for why sediment transport was not considered.

B. HYDRAULICS

1. Reach to be Revised Cove Creek Wash - Sweetwater Ave to Joan de Arc Ave.

	Description	Cross Section	Water-Surface Elevations (ft.) Effective	Proposed/Revised
Downstream Limit	Park (Sweetwater)	AS (17505)	1281.51	1281.50
Upstream Limit	(Park (Joan de Arc)	AV (17783)	1285.80	1285.70

2. Hydraulic Method Used

Hydraulic Analysis [HEC-2 , HEC-RAS, Other (Attach description)]

B. HYDRAULICS (CONTINUED)

3. Pre-Submittal Review of Hydraulic Models

FEMA has developed two review programs, CHECK-2 and CHECK-RAS, to aid in the review of HEC-2 and HEC-RAS hydraulic models, respectively. These review programs verify that the hydraulic estimates and assumptions in the model data are in accordance with NFIP requirements, and that the data are comparable with the assumptions and limitations of HEC-2/HEC-RAS. CHECK-2 and CHECK-RAS identify areas of potential error or concern. These tools do not replace engineering judgment. CHECK-2 and CHECK-RAS can be downloaded from http://www.fema.gov/fhm/frm_soft.shtm. We recommend that you review your HEC-2 and HEC-RAS models with CHECK-2 and CHECK-RAS. If you disagree with a message, please attach an explanation of why the message is not valid in this case. Review of your submittal and resolution of valid modeling discrepancies will result in reduced review time.

HEC-2/HEC-RAS models reviewed with CHECK-2/CHECK-RAS? ☒ Yes ☐ No

4. Models Submitted

Duplicate Effective Model*	Natural File Name:	Floodway File Name:
Corrected Effective Model*	Natural File Name:	Floodway File Name:
Existing or Pre-Project Conditions Model	Natural File Name:	Floodway File Name: cavefwc.out
Revised or Post-Project Conditions Model	Natural File Name:	Floodway File Name: cc_fwfp.out
Other - (attach description) 10 year model	Natural File Name:	Floodway File Name: cc_10yr.out
50 year model		cc_50yr.out

*Not required for revisions to approximate 1%-annual-chance floodplains (Zone A) – for details, refer to the corresponding section of the instructions.

The document "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by FEMA. This document can be found at: http://www.fema.gov/fhm/en_modl.shtm.

C. MAPPING REQUIREMENTS

A **certified topographic map** must be submitted showing the following information (where applicable): the boundaries of the effective, existing, and proposed conditions 1%-annual-chance floodplain (for approximate Zone A revisions) or the boundaries of the 1%- and 0.2%-annual-chance floodplains and regulatory floodway (for detailed Zone AE, AO, and AH revisions); location and alignment of all cross sections with stationing control indicated; stream, road, and other alignments (e.g., dams, levees, etc.); current community easements and boundaries; boundaries of the requester's property; certification of a registered professional engineer registered in the subject State; location and description of reference marks; and the referenced vertical datum (NGVD, NAVD, etc.).

Note that the boundaries of the existing or proposed conditions floodplains and regulatory floodway to be shown on the revised FIRM and/or FBFM must tie-in with the effective floodplain and regulatory floodway boundaries. Please attach **a copy of the effective FIRM and/or FBFM,** annotated to show the boundaries of the revised 1%- and 0.2%-annual-chance floodplains and regulatory floodway that tie-in with the boundaries of the effective 1%- and 0.2%-annual-chance floodplain and regulatory floodway at the upstream and downstream limits of the area of revision.

D. COMMON REGULATORY REQUIREMENTS

1. For CLOMR requests, do Base Flood Elevations (BFEs) increase? ☐ Yes ☐ No

For CLOMR requests, if either of the following is true, please submit evidence of compliance with Section 65.12 of the NFIP regulations:

- The proposed project encroaches upon a regulatory floodway and would result in increases above 0.00 foot.
- The proposed project encroaches upon a SFHA with BFEs established and would result in increases above 1.00 foot.

2. Does the request involve the placement or proposed placement of fill? ☐ Yes ☐ No

If Yes, the community must be able to certify that the area to be removed from the special flood hazard area, to include any structures or proposed structures, meets all of the standards of the local floodplain ordinances, and is reasonably safe from flooding in accordance with the NFIP regulations set forth at 44 CFR 60.3(a)(3), 65.5(a)(4), and 65.6(a)(14). Please see the MT-2 instructions for more information.

3. For LOMR requests, is the regulatory floodway being revised? ☒ Yes ☐ No

If Yes, attach evidence of regulatory floodway revision notification. As per Paragraph 65.7(b)(1) of the NFIP Regulations, notification is required for requests involving revisions to the regulatory floodway. (Not required for revisions to approximate 1%-annual-chance floodplains [studied Zone A designation] unless a regulatory floodway is being added. Elements and examples of regulatory floodway revision notification can be found in the MT-2 Form 2 Instructions.)

4. For LOMR requests, does this request require property owner notification and acceptance of BFE increases? ☒ Yes ☐ No

If Yes, please attach proof of property owner notification and acceptance (if available). Elements of and examples of property owner notification can be found in the MT-2 Form 2 Instructions.

FEDERAL EMERGENCY MANAGEMENT AGENCY

PAYMENT INFORMATION FORM

Community Name: City of Phoenix

Project Identifier: Sweetwater Park

THIS FORM MUST BE MAILED, ALONG WITH THE APPROPRIATE FEE, TO ONE OF TWO POST OFFICE BOXES (SEE BELOW) OR FAXED TO THE FAX NUMBER BELOW.

Type of Request:

MT-1 application fee
MT-2 application fee } (Insert **3173** as the P.O. Box number in the address below)

External Data Requests (EDRs) (Insert **398** as the P.O. Box number in the address below)

Federal Emergency Management Agency
Revisions Fee-Collection System Administrator
P.O. Box 3173
Merrifield, Virginia 22116
Fax: (703) 849-0282
Phone: (703) 849-0432

Request No.: (if known) Amount: $ 3800.00

☐ INITIAL FEE* ☒ FINAL FEE ☐ FEE BALANCE** ☐ MASTER CARD ☐ VISA ☒ CHECK ☐ MONEY ORDER

*Note: Applicable only for EDR and/or Alluvial Fan requests (as appropriate).

**Note: Applicable only if submitting a corrected fee for an ongoing request.

COMPLETE THIS SECTION ONLY IF PAYING BY CREDIT CARD

EXP. DATE

☐☐☐☐ — ☐☐☐☐ — ☐☐☐☐ — ☐☐☐☐ ☐☐ — ☐☐
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Month Year

CARD NUMBER

Date Signature

NAME *(AS IT APPEARS ON CARD)*:
(please print or type)

ADDRESS:
(*for your credit card receipt-please print or type*)

DAYTIME PHONE:

FEDERAL EMERGENCY MANAGEMENT AGENCY

PAYMENT INFORMATION FORM

Community Name: City of Phoenix

Project Identifier: Sweetwater Park

THIS FORM MUST BE MAILED, ALONG WITH THE APPROPRIATE FEE, TO ONE OF TWO POST OFFICE BOXES (SEE BELOW) OR FAXED TO THE FAX NUMBER BELOW.

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**Note: Applicable only if submitting a corrected fee for an ongoing request.

COMPLETE THIS SECTION ONLY IF PAYING BY CREDIT CARD

☐☐☐☐ – ☐☐☐☐ – ☐☐☐☐ – ☐☐☐☐
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
CARD NUMBER

EXP. DATE ☐☐ – ☐☐
Month Year

Date _____ Signature

NAME *(AS IT APPEARS ON CARD)*:
(please print or type)

ADDRESS:
(*for your credit card receipt-please print or type*)

DAYTIME PHONE:

J2 ENGINEERING & ENVIRONMENTAL DESIGN, LLC

00249

FEMA DATE	INVOICE NO.	DESCRIPTION	INVOICE AMOUNT	DEDUCTION	BALANCE
Tran # Invoice 435	Type Invoice	Date 10/20/04 Reference FEMA Application	Date: 10/20/2004 Balance $3,800.00	Check Amt: Discount $0.00	$3,800.00 Pay Amount $3,800.00

CHECK DATE		CHECK NUMBER		TOTALS			

THIS DOCUMENT HAS AN ARTIFICIAL WATERMARK IN PAPER. SEE BACK SIDE FOR OTHER SECURITY FEATURES

NATIONAL BANK
OF ARIZONA
MESA, AZ 85210

91-532/1221

002491

J2 Engineering & Environmental Design, LLC
8222 S. 48th Street, Suite 135
Phoenix, AZ 85044
(602) 438-2221

Exactly Three thousand eight hundred and no / 100 Dollars

DATE	CHECK NO.	AMOUNT
10/20/2004		$3,800.00

PAY TO THE ORDER OF

FEMA
P.O. Box 3173
Merrifield VA 22116

AUTHORIZED SIGNATURE

⑈002491⑈ ⑆122105320⑆ 056000190⑈

MP

Appendix C

HEC-2 Models

Duplicate Effective Floodway Model	cavefw.out
Corrected Effective Floodway Model	cavefwc.out
Post-Project Floodway Model	cc_fwfp.out
10-year Post Project Model	cc_10yr.out
50-year Post Project Model	cc_50yr.out

CAVEFW.OUT

(DUPLICATED EFFECTIVE FLOODWAY MODEL)

```
**********************************************
*  HEC-2 WATER SURFACE PROFILES              *
*                                            *
*  Version   4.6.2;  May 1991                *
*                                            *
*  RUN DATE    14OCT04    TIME   14:39:52    *
**********************************************
```

```
**************************************
*  U.S. ARMY CORPS OF ENGINEERS      *
*  HYDROLOGIC ENGINEERING CENTER     *
*  609 SECOND STREET, SUITE D        *
*  DAVIS, CALIFORNIA 95616-4687      *
*          (916) 756-1104            *
**************************************
```

```
X     X  XXXXXXX   XXXXX             XXXXX
X     X  X        X     X           X     X
X     X  X        X                       X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

THIS RUN EXECUTED 14OCT04 14:39:52

```
**********************************************
 HEC-2 WATER SURFACE PROFILES

 Version  4.6.2;  May 1991
**********************************************
```

T1 MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2 FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3 CAVE CREEK WASH NATURAL 100-YR J. MISCHLER

CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD. ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS. AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR FLOOD FROM THE RESTUDY OF CAVE CREEK WASH. ONLY THE WATERSHED BELOW THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50, AND 100 YEAR FLOODS.

FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.

FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)

FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY IS RUN FOR THIS REACH.

FILE LAST MODIFIED 11-26-90

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2.							1283.69	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.		-1.							15.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

200	0	150	53.	54.	4.	8.	43.	10.	51.

14PRINT

```
QT       2.     15400.     15400.
NC    0.04       0.04       0.04        0.1        0.3

       BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN

ET                          10.41
X1   17.588         25.     9982.     10193.       440.       560.       496.
GR   1291.4       9666.    1290.3     9746.     1275.6     9817.     1275.2     9835.     1273.5     9854.
GR   1277.8       9873.    1279.7     9889.     1277.3     9896.     1278.2     9909.     1281.6     9922.
GR   1281.9       9939.    1282.2     9964.     1278.1     9982.     1269.6     9992.     1270.6    10000.
GR   1270.9      10009.    1272.6    10014.     1273.6    10039.     1273.6    10079.     1271.2    10144.
GR   1271.2      10170.    1276.4    10193.     1290.5    10264.     1291.3    10328.     1291.     10495.

ET                            4.1      9900.     10150.
X1   17.662         23.     9941.     10130.       380.       400.       391.
GR   1293.1       9731.    1293.1     9781.     1291.6     9791.     1282.7     9835.     1278.1     9844.
GR   1279.2       9871.    1277.3     9911.     1276.4     9941.     1272.5     9986.     1271.6    10000.
GR   1274.6      10016.    1277.5    10033.     1278.8    10063.     1278.9    10086.     1276.8    10099.
GR   1275.7      10111.    1281.6    10130.     1285.2    10161.     1293.1    10208.     1294.     10221.
GR   1293.7      10281.    1294.     10400.     1294.5    10432.

ET                          10.41
X1   17.783         18.     9921.     10064.       540.       500.       639.
GR   1295.2       9812.    1294.     9837.     1291.3     9861.     1286.9     9895.     1280.5     9921.
GR   1276.8       9938.    1278.3     9954.     1277.6     9973.     1275.4    10000.     1276.3    10019.
GR   1277.4      10033.    1277.7    10045.     1281.1    10064.     1281.3    10074.     1284.6    10097.
GR   1289.8      10122.    1291.5    10143.     1291.9    10153.

X1   17.932         23.     9956.     10066.       790.       780.       787.
GR   1294.8       9675.    1294.7     9732.     1295.5     9750.     1293.6     9766.     1297.5     9792.
GR   1297.5       9837.    1298.3     9869.     1291.9     9896.     1289.7     9956.     1283.6     9966.
GR   1283.5       9971.    1277.9     9986.     1278.2    10000.     1278.2    10006.     1279.5    10008.
GR   1279.9      10022.    1280.2    10032.     1285.5    10054.     1290.2    10066.     1290.6    10083.
GR   1298.5      10131.    1299.7    10159.     1299.7    10193.

       THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT
       OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE,
       THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND
       ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS.  ENDS OF THE
       SECTIONS ARE ARTIFICIALLY EXTENDED.  BT'S ARE RAISED 0.5' FROM CENTER-
       LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.

                            4.1    9951.   10049.

NC    0.035      0.035      0.025        0.3        0.5
X1   18.042         8.     9951.     10049.       620.       550.       581.                  2.4
GR    1305.      9951.    1283.4     9952.     1282.9     9979.     1279.9     9980.     1279.9    10020.
GR   1281.9      10021.    1284.2    10048.     1305.     10049.
```

ICS14PRINT

```
SB    1.05      1.56       3.                  75.        4.       1059.      0.81     1280.2     1279.9
NC    0.03      0.03     0.025
                4.11    9951.  10049.
X1   18.061                                   101.       101.      101.                 0.8

       ELTRD IS 1298.4+3.2HV =  1301.6

X2                            1.     1293.2     1301.6
BT       4.      9951.      1305.        0.      9952.     1298.4        0.     10048.     1298.4        0.
BT   10049.      1305.         0.

NC    0.035     0.035     0.035
ET                           4.1      9900.     10085.
X1   18.081       11.      9942.     10045.       80.       130.      106.
GR   1300.5     9819.     1300.2      9866.     1298.2     9899.     1286.6     9942.     1282.7     9960.
GR   1281.4    10000.     1281.1     10008.     1282.7    10030.     1284.9    10045.     1297.3    10088.
GR   1300.2    10112.

NC                                  0.1        0.3
ET                           4.1      9857.     10125.
X1   18.174       29.      9919.     10073.       500.      490.      491.
GR   1303.6     9673.     1304.6      9713.     1307.3     9757.     1302.5     9801.     1302.      9850.
GR    1288.     9904.     1287.3      9915.     1288.7     9919.     1284.      9927.     1283.5     9956.
GR   1282.6     9975.     1283.5      9985.     1281.8     9992.     1281.7    10000.     1282.     10006.
GR   1282.3    10011.     1282.7     10020.     1294.6    10073.     1297.     10093.     1296.2    10113.
GR   1293.7    10142.     1293.7     10182.     1296.8    10236.     1299.3    10270.     1298.9    10295.
GR    1298.    10340.     1299.8     10364.      1298.    10396.     1301.1    10478.

ET                           4.1      9882.2    10110.
X1   18.269       12.      9942.     10060.       500.      500.      502.
GR   1303.8     9868.     1288.1      9928.     1288.4     9942.     1285.3     9952.     1283.8     9979.
GR   1283.8    10000.     1283.8     10010.     1285.6    10023.     1292.4    10060.     1294.     10071.
GR   1303.2    10130.     1303.7     10144.

ET                           4.1      9895.6    10107.8
X1   18.362       20.      9942.     10060.       490.      510.      491.
GR   1315.5     9728.     1315.4      9758.     1315.8     9780.     1310.6     9807.     1307.1     9862.
GR   1298.6     9905.      1290.      9942.     1287.8     9952.      1288.     9967.     1286.1     9971.
GR   1285.3    10000.     1286.8     10022.     1286.8    10036.     1290.6    10060.     1303.8    10124.
GR   1307.7    10151.     1307.5     10169.     1306.8    10183.     1308.1    10240.     1308.8    10283.

       DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
       ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).


ET                           4.1      9885.     10140.
X1   18.445       13.      9992.     10005.       470.      460.      440.
X3      10.                                                          1297.     1297.
GR   1315.1     9796.     1306.2      9880.      1300.     9920.     1299.5     9978.     1290.     9992.
GR   1287.3    10000.      1290.     10005.      1300.    10040.      1302.    10060.     1303.    10097.
GR    1305.    10200.     1305.6     10310.     1309.4    10330.
```

KC14PRINT

```
SB      0.9       2.34       3.0         0.       6.11        1.0        33.2         0.     1287.7     1287.4
ET                           4.11       9885.     10140.
X1    18.456                                       60.         60.         60.                   0.4

        ELTRD IS 1198.8+0.7HV = 1199.5

X2                                        1.      1294.2      1299.5
X3      10.                                                                          1298.8     1298.8
BT      10.       9796.      1315.5         0.       9880.       1306.6         0.     9928.      1301.9         0.
BT    9991.       1299.1         0.     10000.      1298.8         0.     10046.     1301.9         0.     10097.
BT    1303.4         0.     10200.      1305.4         0.     10310.      1306.         0.     10330.     1309.8
BT      0.

ET                                        4.1      9881.4     10169.8
X1    18.545         21.      9951.      10058.       440.        480.        466.
GR    1324.2       9716.      1323.1       9748.      1324.4       9765.      1321.9       9790.      1318.3       9810.
GR     1317.       9839.      1306.7       9889.      1294.1       9951.      1291.5       9972.      1289.3       9993.
GR    1289.7      10000.      1289.7      10018.      1290.5      10040.      1293.8      10058.      1298.8      10073.
GR    1299.8      10094.      1303.4      10108.      1303.9      10121.      1303.       10135.      1310.1      10182.
GR    1310.2      10194.

        UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
        45 DEGREE WINGWALLS.

ET                                        4.1      9880.7     10170.8
X1    18.575         21.      9972.      10000.       160.        160.        160.
X3      10.                                                                  1297.      1297.
GR    1324.2       9716.      1323.1       9748.      1324.4       9765.      1321.9       9790.      1318.3       9810.
GR     1317.       9839.      1306.7       9889.      1294.1       9951.      1291.5       9972.      1289.3       9993.
GR    1289.7      10000.      1289.7      10018.      1290.5      10040.      1293.8      10058.      1298.8      10073.
GR    1299.8      10094.      1303.4      10108.      1303.9      10121.      1303.       10135.      1310.1      10182.
GR    1310.2      10194.

SB      1.25       1.56       3.0         0.       10.4        1.0        56.5         0.     1289.4     1289.3
ET                           4.11       9876.1     10177.2
X1    18.583                                       40.         40.         40.                   0.1

        ELTRD IS 1298.4+0.6HV = 1299.0

X2                                        1.      1295.4      1299.
X3      10.                                                                          1298.4     1298.4
BT      9.        9880.      1310.          0.       9965.       1300.          0.    10000.      1298.4         0.
BT    10037.      1300.          0.     10065.      1302.          0.     10085.     1304.         0.     10122.
BT     1306.         0.     10160.       1308.         0.     10170.      1310.         0.

ET                                        4.1      9879.6     10134.7
X1    18.640         17.      9955.      10033.       300.        310.        301.
GR    1322.5       9707.      1323.7       9729.      1320.1       9768.      1313.8       9827.      1312.3       9858.
GR    1308.4       9887.      1302.6       9920.      1294.6       9955.      1292.8       9966.      1290.2       9993.
GR    1291.5      10000.      1291.8      10009.      1293.4      10033.      1307.8      10111.      1309.       10132.
GR    1312.1      10153.      1313.2      10167.
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K/14PRINT

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ET                          4.1     9883.2    10111.7
X1   18.734      19.      9938.    10062.      490.      500.      496.
GR   1320.7     9713.    1316.3    9762.     1316.6    9809.     1319.2    9819.     1317.9    9841.
GR   1308.7     9888.    1298.6    9938.     1293.4    9971.     1294.2    9981.     1292.4    9992.
GR   1294.5    10000.    1294.4   10025.     1300.8   10062.     1309.    10094.     1307.6   10104.
GR   1312.9    10124.    1314.    10143.     1317.1   10178.     1319.9   10201.

ET                          4.1     9891.8    10107.
X1   18.832      21.      9929.    10046.      480.      540.      517.
GR   1326.2     9779.    1328.     9788.     1320.6    9826.     1316.     9853.     1312.5    9880.
GR   1302.8     9929.    1296.1    9960.     1293.5    9982.     1293.2   10000.     1293.2   10005.
GR   1294.8    10008.    1295.5   10027.     1297.1   10046.     1307.7   10095.     1314.1   10128.
GR   1314.1    10141.    1317.1   10187.     1320.3   10221.     1319.9   10247.     1318.6   10271.
GR   1319.2    10278.

ET                          4.1     9887.7    10087.5
X1   18.925      14.      9941.    10048.      480.      500.      491.
GR   1329.1     9741.    1315.9    9866.     1297.6    9941.     1297.3    9960.     1295.3    9989.
GR    1295.    10000.    1296.1   10006.     1295.4   10022.     1294.6   10025.     1296.3   10034.
GR    1300.    10048.    1310.5   10087.     1320.1   10132.     1321.3   10161.

ET                          4.1     9866.3    10038.5
X1   19.018      20.      9903.    10030.      460.      520.      491.
GR    1331.     9681.    1321.2    9775.     1313.9    9847.     1305.1    9903.     1298.1    9930.
GR    1298.     9948.    1298.1    9957.     1297.6    9974.     1299.    10000.     1308.4   10030.
GR   1325.3    10088.    1327.    10101.     1325.5   10109.     1330.2   10118.     1330.9   10124.
GR    1327.    10145.    1326.8   10211.     1328.8   10218.     1332.6   10260.     1331.8   10268.

ET                          4.1     9942.1    10061.9
X1   19.117      10.      9973.    10026.      490.      560.      523.
GR   1333.9     9803.    1331.8    9872.     1323.     9908.     1302.9    9973.     1299.2    9997.
GR   1298.7    10000.    1298.6   10010.     1301.5   10026.     1328.9   10116.     1333.    10144.

ET                          4.1     9923.1    10081.
X1   19.210      16.      9945.    10060.      500.      490.      491.
GR   1333.2     9669.    1330.6    9853.     1328.7    9874.     1312.     9945.     1310.     9954.
GR   1303.8     9978.    1301.4    9991.     1300.2   10000.     1301.3   10010.     1303.4   10026.
GR   1312.     10060.    1321.3   10098.     1327.    10127.     1332.5   10166.     1335.3   10191.
GR   1335.6    10192.

      19TH AVENUE  (SPECIAL BRIDGE)

NC                                    0.3       0.5
QT       2.    14600.    14600.
X1   19.283      12.      9948.    10057.      390.      390.      386.                11.2
X3      10.                                                                1324.     1324.
GR   1333.2     9669.    1330.6    9853.     1328.7    9874.     1312.     9945.     1300.5    9948.
GR   1300.5    10057.    1312.    10060.     1321.3   10098.     1327.    10127.     1332.5   10166.
GR   1335.3    10191.    1335.6   10192.
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KC14PRINT

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SB      0.9      1.56        3.                109.       4.5      1304.        0.     1311.7     1311.7
X1   19.299                                    86.       86.       86.

       ELTRD IS 1324.5+2HV = 1326.5

X2                            1.     1324.2    1326.5
X3      10.                                                                  1325.     1325.
BT       6.      9500.      1326.        0.      9650.    1324.5        0.     9855.     1325.3        0.
BT   10000.      1325.7        0.    10275.     1324.9        0.    10460.     1326.          0.

ET                          10.41
X1   19.313        20.      9932.    10112.       75.       75.       74.
GR    1329.      9853.     1326.7     9859.     1327.6     9866.     1327.9     9932.     1314.5     9968.
GR   1312.2      9980.     1311.7     9988.     1313.1     9996.     1313.1    10000.     1313.4    10017.
GR    1312.     10029.     1313.7    10044.     1311.7    10054.     1313.7    10069.     1325.5    10112.
GR   1325.4     10137.     1324.3    10180.     1324.9    10219.     1325.2    10325.     1326.6    10464.

NC                                      0.1        0.3
X1   19.418        19.      9948.    10120.      570.      530.      554.
GR   1330.8      9898.     1328.8     9902.     1330.6     9910.     1330.2     9938.     1328.      9948.
GR   1313.1      9992.     1313.1    10000.      1313.     10004.     1316.1    10022.     1314.6    10058.
GR   1315.5     10076.     1320.1    10094.     1326.1    10120.     1327.6    10138.     1327.5    10186.
GR   1326.2     10276.     1327.     10322.     1328.3    10376.     1328.6    10401.

       SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
       FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
       EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608


X1   19.56        17.      9929.    10065.      730.      720.      729.
GR   1346.1      9801.     1329.7     9902.     1329.7     9929.     1316.5     9950.     1316.8     9978.
GR   1315.6     10000.     1315.6    10008.     1316.6    10026.     1316.4    10035.     1317.5    10043.
GR   1330.6     10065.     1330.8    10099.     1330.5    10146.     1330.2    10195.     1330.9    10208.
GR   1331.2     10223.     1332.1    10301.

       GREENWAY BRIDGE  (SPECIAL BRIDGE).  LARGE SKEW ACCOUNTED FOR PRIOR
       TO DATA INPUT BY ADJUSTING BWC ETC.  DUE TO COMPLEX CHANNEL GEOMETRY
       DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE
       TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE.  GR CARDS
       FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7


QT       2.      5700.     5700.
NC   0.035       0.035     0.015       0.3       0.5
X1   19.625        11.      9965.    10025.      580.       70.      364.                -1.7
X3      10.                                                                  1332.     1332.
GR   1335.7      9834.     1335.1     9893.     1333.4     9922.     1331.8     9937.     1331.6     9948.
GR   1319.3      9965.     1319.3    10025.      1331.    10042.     1339.2    10055.     1337.7    10060.
GR   1338.8     10100.
```


14PRINT

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SB    1.05      1.56       3.       100.       60.        2.       564.        0.     1318.6     1317.6
X1   19.691                                     330.       430.      350.                 1.0

       ELTRD IS 1332.8+2HV = 1334.8

X2                            1.     1328.3     1334.8
X3     10.                                                                    1333.      1333.

ET                            4.1    9953.      10038.
X1   19.742       13.       9948.   10042.       80.       470.      269.
GR   1335.7     9834.      1335.1    9893.     1333.4     9922.     1331.8     9937.     1331.6     9948.
GR   1319.1     9967.      1319.2   10000.     1319.7    10017.     1319.7    10027.     1331.      10042.
GR   1339.2    10055.      1337.7   10060.     1338.8    10100.

NC    0.035     0.035      0.035      0.1        0.3
ET                            4.1    9957.      10043.
X1   19.847       22.       9929.   10062.      570.       520.      554.
GR   1339.8     9621.      1338.7    9726.     1341.6     9738.     1338.8     9759.     1339.      9806.
GR   1337.7     9915.      1336.1    9921.     1336.3     9929.     1320.2     9974.     1318.8     9989.
GR   1320.8    10000.      1320.5   10017.     1321.3    10023.     1328.8    10040.     1335.8    10062.
GR   1336.1    10070.      1336.6   10084.     1335.8    10150.     1336.     10160.     1338.3    10175.
GR   1339.2    10195.      1339.2   10198.

ET                            4.1    9958.      10031.
X1   19.960       24.       9958.   10031.      640.       560.      597.
GR   1340.4     9544.      1339.1    9638.     1336.7     9736.     1337.2     9768.     1338.2     9807.
GR   1338.9     9836.      1338.4    9908.     1340.1     9911.     1337.7     9917.     1339.1     9924.
GR   1337.2     9935.      1330.     9958.     1327.8     9964.     1326.1     9977.     1324.6     9990.
GR   1324.7    10000.      1326.1   10008.     1326.8    10023.     1330.     10031.     1340.6    10059.
GR   1340.8    10072.      1340.7   10099.     1340.1    10194.     1339.9    10251.

       TIERRA BUENA  (SPECIAL BRIDGE)


       DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED
       FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD
       AND UNION HILLS DRIVE


NC    0.04      0.04       0.035      0.3        0.5
ET                            4.1    9969.      10020.
X1   19.974       10.       9969.   10020.      105.       65.       74.
X3     10.                                                                    1336.      1336.
GR   1340.1     9911.      1337.7    9917.     1339.1     9924.     1337.2     9935.     1330.      9958.
GR   1323.8     9969.      1323.8   10020.     1330.     10031.     1340.6    10059.     1340.8    10072.

SB    1.25      1.56       3.                   51.        3.       480.        0.     1324.1     1323.8
ET                           4.11    9969.      10020.
X1   19.986                                     61.        61.       61.

       ELTRD IS 1336.9+1HV = 1337.9

X2                            1.     1334.1     1337.9
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KV4PRINT

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X3     10.                                                          1337.      1337.
BT      3.     9560.     1340.       0.     10000.    1336.9       0.    10230.     1340.       0.

ET                              4.1     9975.     10025.
X1   20.049       37.     9954.     10027.      305.      345.      333.
X3     10.                                                          1340.
GR   1344.7     9266.    1345.2     9300.    1342.4     9304.    1340.8     9328.    1332.6     9344.
GR   1333.1     9400.    1333.3     9490.     1334.     9563.    1334.8     9606.    1333.2     9728.
GR    1335.     9767.    1331.4     9805.     1331.     9820.    1331.5     9854.    1331.5     9901.
GR   1332.1     9920.    1341.1     9938.    1340.5     9950.    1343.4     9954.    1339.8     9969.
GR   1327.4     9991.    1327.1     9997.    1327.1    10000.    1328.4    10008.    1339.4    10027.
GR    1340.    10047.    1342.3    10075.    1342.4    10097.    1340.2    10114.    1342.3    10131.
GR    1343.    10142.    1341.5    10162.    1342.7    10175.    1342.9    10210.    1343.3    10307.
GR   1342.5    10378.     1343.    10477.

NC                                      0.1       0.3
ET                              4.1     9972.     10029.
X1   20.144       38.     9955.     10025.      490.      500.      502.
X3     10.                                                          1344.
GR   1346.6     9136.    1347.4     9206.    1348.2     9208.    1348.4     9215.    1347.1     9235.
GR   1342.5     9239.    1341.7     9258.    1334.6     9278.     1332.     9297.    1332.6     9357.
GR   1333.7     9417.    1333.1     9457.    1334.1     9479.    1334.9     9499.    1335.3     9554.
GR   1334.4     9582.    1335.7     9631.    1335.6     9698.    1336.1     9745.    1334.6     9779.
GR   1329.6     9788.    1330.5     9820.    1329.4     9847.    1328.5     9881.    1328.5     9912.
GR   1341.6     9931.    1343.1     9951.    1344.6     9955.     1342.     9968.    1330.9     9986.
GR   1330.9    10000.    1330.9    10010.    1340.8    10025.    1342.2    10040.    1345.9    10053.
GR   1346.5    10073.     1347.    10128.     1347.    10198.

ET                              4.1     9964.     10035.
X1   20.242       32.     9953.     10029.      470.      560.      517.
X3     10.                                                          1348.
GR   1346.6     9200.    1347.9     9269.    1348.7     9271.    1348.7     9277.    1346.6     9330.
GR   1347.7     9377.    1342.3     9383.    1342.7     9400.    1332.4     9422.    1333.6     9470.
GR   1333.7     9529.    1334.9     9573.    1334.2     9626.    1334.9     9648.    1335.1     9651.
GR    1336.     9785.     1336.     9842.    1338.6     9846.    1339.3     9895.    1339.2     9935.
GR   1347.2     9953.    1343.7     9970.    1333.3     9988.    1333.7    10000.    1333.5    10012.
GR   1342.8    10029.    1343.2    10041.    1348.3    10061.    1349.2    10076.    1349.9    10107.
GR   1350.1    10201.    1350.3    10202.

ET                              4.1     9963.     10036.
X1   20.335       27.     9958.     10032.      510.      470.      491.
GR   1349.5     9230.    1351.4     9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2     9592.    1350.4     9726.    1350.1     9808.    1351.1     9820.    1351.4     9850.
GR   1351.8     9928.    1347.7     9950.     1344.     9958.    1337.7     9971.    1337.3     9987.
GR   1337.4    10000.    1338.3    10021.     1344.    10032.     1349.    10042.    1351.8    10056.
GR   1351.1    10100.    1351.6    10141.     1350.    10144.     1350.    10166.     1350.    10240.
GR   1350.8    10328.    1351.4    10406.

       11TH AVENUE  (SPECIAL BRIDGE)
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KC14PRINT

```
NC                                        0.3       0.5
X1   20.347       25.      9970.     10021.        1.       150.       63.
X3      10.                                                          1351.5    1351.5
GR   1349.5      9230.    1351.4     9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2      9592.    1350.4     9726.    1350.1     9808.    1351.1     9820.     1351.4    9850.
GR   1351.8      9928.    1347.7     9950.    1344.      9958.    1337.2     9970.     1337.2    10021.
GR    1344.     10032.    1349.     10042.    1351.8    10056.    1351.1    10100.     1351.6    10141.
GR    1350.     10144.    1350.     10166.    1350.     10240.    1350.8    10328.     1351.4    10406.

SB    1.25       1.56      3.0       100.      51.        3.       576.         0.      1337.7    1337.2
X1   20.366                                    100.      100.      100.

        ELTRD IS 1352.5+2HV = 1354.5

X2                              1.     1349.7    1354.5
X3      10.                                                          1352.5    1352.5

ET                              4.1    9958.     10072.
X1   20.423       21.      9975.     10045.      415.      205.      301.
GR   1354.3      9418.    1353.8     9613.    1355.3     9653.    1354.6     9696.     1353.3    9711.
GR   1353.6      9724.    1353.5     9931.    1352.      9950.    1345.      9975.     1338.     10000.
GR   1339.4     10027.    1339.7    10037.    1344.3    10045.    1345.     10055.     1353.3    10085.
GR   1353.5     10100.    1354.7    10127.    1354.4    10214.    1354.3    10273.     1353.3    10300.
GR   1353.5     10333.

        10TH AVENUE  (SPECIAL BRIDGE)

X1   20.430       20.      9985.     10036.        1.       65.        37.
X3      10.                                                          1352.5    1352.5
GR   1354.3      9418.    1353.8     9613.    1355.3     9653.    1354.6     9696.     1353.3    9711.
GR   1353.6      9724.    1353.5     9931.    1352.      9950.    1345.      9975.     1339.3    9985.
GR   1339.3     10036.    1344.3    10045.    1345.     10055.    1353.3    10085.     1353.5    10100.
GR   1354.7     10127.    1354.4    10214.    1354.3    10273.    1353.3    10300.     1353.5    10333.

SB    1.25       1.56      3.0       100.      51.        3.       576.         0.      1339.3    1339.3
X1   20.444                                     70.       70.       70.

        ELTRD IS 1353.5+2HV = 1355.5

X2                              1.     1351.3    1355.5
X3      10.                                                          1353.5    1353.5

ET                              4.1    9930.     10069.
X1   20.529       19.      9947.     10055.      545.      375.      449.
GR    1354.      9570.    1353.7     9764.    1354.8     9836.    1355.      9885.     1354.7    9898.
GR   1350.7      9910.    1350.2     9947.    1343.4     9963.    1343.4     9990.     1343.3    10000.
GR    1343.     10025.    1348.6    10041.    1350.4    10055.    1350.8    10090.     1355.     10105.
GR   1354.4     10159.    1355.     10192.    1355.     10302.    1355.2    10313.
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KV/4PRINT

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NC                                      0.1       0.3
ET                          4.1       9935.     10065.
X1   20.628       16.      9909.     10076.      530.      520.      523.
GR   1357.3      9532.     1357.3    9624.     1356.8     9754.    1357.2    9808.    1357.1    9909.
GR   1351.5      9922.     1350.2    9947.     1343.3     9959.    1343.6    9991.    1343.6   10000.
GR   1343.7     10044.     1356.3   10076.      1357.    10082.    1357.1   10137.    1357.2   10282.
GR    1358.     10337.

ET                          4.1       9962.     10026.
X1   20.725       20.      9951.     10036.      510.      520.      512.
GR   1360.3      9544.     1361.1    9631.     1361.3     9734.    1361.     9783.    1362.     9858.
GR   1360.8      9940.     1360.4    9951.     1350.4     9970.    1350.4    9981.    1348.3    9984.
GR   1347.4      9992.     1347.2   10000.     1347.4    10010.    1361.    10036.    1363.4   10046.
GR   1363.8     10101.     1364.1   10156.     1364.7    10184.    1365.1   10212.    1364.7   10291.

       PHELPS ROAD  (SPECIAL BRIDGE)

NC                                      0.3       0.5
X1   20.737       16.      9968.     10019.       80.       80.       80.                3.4
X3      10.                                                                  1363.     1363.
GR   1360.3      9544.     1361.1    9631.     1361.3     9734.    1361.     9783.    1362.     9858.
GR   1360.8      9940.     1360.4    9951.     1347.5     9968.    1347.5   10019.    1361.    10036.
GR   1363.4     10046.     1363.8   10101.     1364.1    10156.    1364.7   10184.    1365.1   10212.
GR   1364.7     10291.

SB    1.25       1.56       3.0       100.       51.        3.       576.        0.    1351.0    1350.9
X1   20.750                                      71.       71.       71.                0.1

       ELTRD IS 1364+2HV = 1366.0

X2                          1.       1363.     1366.
X3      10.                                                                  1364.     1364.

       BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
       RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
       AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
       CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
       INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.


X1   20.819       12.      9965.     10043.      375.      345.      365.                -0.9
X3      10.                                                                1366.9    1366.9
GR   1366.5      9554.     1365.4    9663.     1365.5     9777.    1365.5    9846.    1365.3    9942.
GR   1357.4      9965.     1357.4   10043.     1367.6    10066.    1366.2   10107.    1366.2   10146.
GR    1367.     10166.     1367.2   10169.

SB    1.05       1.56       3.0       100.       77.3       3.3       655.        0.    1357.4    1356.5
X1   20.841                                     115.       115.      115.                0.9

       ELTRD IS 1367.9+2HV = 1369.9

X2                          1.       1365.4    1369.9
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X3      10.                                                     1367.9      1367.9

ET                          4.1     9904.   10060.
X1   20.860       14.     9942.   10066.      90.     110.      100.
X3      10.                                                     1365.3      1367.6
GR    1370.     9800.   1365.5     9801.   1365.5     9846.   1365.3      9942.   1357.8      9975.
GR   1356.3     9991.   1356.4    10000.   1357.2    10015.    1357.     10040.   1367.6     10066.
GR   1366.2    10107.   1366.2    10146.    1367.    10166.   1367.2     10169.

NC     0.04     0.035    0.035       0.1      0.3
ET                          4.1     9860.   10110.
X1   20.942       26.     9854.   10024.      530.     490.      433.
GR   1372.5     9619.   1367.2     9630.   1368.7     9643.   1369.8      9663.   1369.4      9719.
GR   1367.6     9792.   1367.6     9836.   1368.6     9854.   1360.2      9867.   1359.8      9879.
GR   1359.8     9891.   1364.6     9904.   1365.2     9942.   1363.7      9970.    1366.      9977.
GR   1360.3     9998.   1359.6    10000.   1366.5    10024.   1364.7     10027.   1364.5     10053.
GR   1365.7    10070.   1364.5    10114.   1361.6    10153.   1368.3     10171.   1368.3     10194.
GR   1368.3    10204.

NC     0.04     0.04     0.035
ET                          4.1     9810.   10060.
X1   21.036       19.     9912.   10020.      490.     490.      496.
GR   1376.1     9530.    1372.     9541.    1372.     9561.   1371.3      9665.   1371.9      9728.
GR   1371.6     9758.   1370.9     9867.   1370.7     9912.   1367.3      9917.   1367.5      9952.
GR   1366.3     9980.   1363.5     9994.   1363.6    10000.   1364.3     10009.   1370.4     10020.
GR   1371.2    10041.   1371.2    10075.   1371.8    10089.    1378.     10090.

ET                          4.1     9900.   10060.
X1   21.127       13.     9974.   10067.      400.     500.      480.
X3      10.                                                     1374.
GR   1378.9     9623.   1373.6     9634.   1373.6     9666.   1373.4      9759.   1373.5      9860.
GR   1373.7     9913.   1374.2     9974.   1366.9     9990.   1366.7     10000.   1367.5     10015.
GR   1367.8    10039.    1375.    10067.    1375.    10077.

ET                          4.1     9900.   10125.
X1   21.230       28.     9967.   10048.      560.     500.      544.
GR   1381.5     9741.   1381.5     9764.   1381.5     9786.   1380.7      9813.   1379.3      9835.
GR   1379.3     9852.   1379.9     9862.   1378.2     9870.   1379.8      9879.   1378.9      9891.
GR   1379.5     9916.   1379.6     9930.   1378.9     9944.   1379.2      9955.   1379.3      9967.
GR   1374.7     9982.   1372.4     9992.    1372.    10000.   1373.2     10014.   1375.6     10023.
GR   1379.3    10037.   1380.6    10048.    1378.    10062.   1377.5     10083.   1377.4     10102.
GR   1377.7    10117.   1377.8    10126.    1385.    10127.

ET                          4.1     9930.   10130.
X1   21.363       55.     9928.   10088.      740.     700.      702.
GR   1384.8     9135.   1384.7     9160.   1383.9     9189.   1384.6      9215.   1383.9      9245.
GR   1384.4     9279.   1383.8     9313.    1384.     9345.   1384.1      9374.   1383.8      9405.
GR   1383.5     9428.   1384.5     9459.    1385.     9498.   1384.7      9527.    1385.      9549.
GR   1382.2     9561.    1381.     9570.   1382.1     9583.   1383.9      9596.   1384.3      9628.
GR   1384.3     9657.    1384.     9697.   1383.6     9739.   1384.1      9779.   1383.9      9811.
GR   1383.1     9822.   1383.6     9848.   1383.3     9886.   1383.5      9907.   1384.1      9916.
GR   1383.2     9922.   1384.4     9928.   1383.6     9939.   1379.2      9954.   1377.7      9977.
GR    1375.     9996.   1374.8    10000.    1375.    10016.   1374.2     10037.   1374.1     10045.
GR   1377.5    10066.   1382.1    10088.   1383.8    10108.    1384.     10125.   1384.5     10147.
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14FPRINT

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GR  1382.7   10174.   1383.2   10202.   1383.1   10224.   1383.1   10245.   1383.3   10265.
GR  1384.3   10285.   1383.4   10301.    1383.   10319.    1383.   10334.    1383.   10337.

ET                      4.1     9852.   10077.
X1  21.484     33.      9932.   10026.    650.     520.     639.
GR  1386.8    9487.   1385.8    9527.   1385.8    9572.   1385.4    9614.   1384.8    9647.
GR  1385.2    9678.   1385.6    9709.   1386.7    9746.   1385.9    9776.   1384.5    9805.
GR  1383.9    9837.   1384.4    9867.    1384.    9892.   1386.5    9919.   1386.9    9932.
GR  1386.2    9943.   1383.5    9964.   1380.2    9970.   1379.7    9988.   1378.5    9994.
GR  1378.6   10000.   1381.2   10014.   1386.5   10026.   1386.6   10053.   1387.8   10056.
GR  1385.5   10060.   1388.2   10068.   1385.8   10075.   1387.4   10079.   1387.4   10101.
GR  1387.6   10116.   1387.5   10131.   1387.4   10134.

ET                      4.1     9940.   10165.
X1  21.576     43.      9980.   10087.    320.     480.     486.
GR  1388.7    9388.   1388.6    9414.   1388.2    9461.   1388.5    9500.   1389.3    9532.
GR  1388.7    9570.   1388.5    9607.   1387.9    9643.   1388.6    9664.   1388.8    9705.
GR  1389.1    9743.   1388.9    9780.    1388.    9821.   1388.4    9852.   1388.7    9889.
GR  1389.1    9922.   1389.7    9952.   1390.1    9968.    1390.    9980.   1382.5    9994.
GR  1382.1   10000.   1382.2   10008.   1383.8   10015.   1385.1   10038.   1385.2   10056.
GR  1384.1   10065.   1384.6   10073.   1388.3   10087.   1387.1   10114.   1387.1   10140.
GR  1387.8   10162.   1387.7   10199.   1388.4   10243.   1388.7   10281.   1389.3   10300.
GR  1390.3   10307.   1389.2   10313.   1390.7   10320.   1387.6   10329.   1388.9   10335.
GR  1389.7   10348.   1390.2   10360.   1390.3   10386.

QT      2.    5500.    5500.
ET                      4.1     9890.   10115.
X1  21.669     35.      9962.   10031.    440.     470.     491.
GR  1393.2    9392.    1393.    9426.   1392.7    9446.   1392.3    9515.   1392.9    9562.
GR  1392.2    9606.   1392.8    9663.   1392.7    9710.   1393.1    9742.   1393.5    9777.
GR  1393.3    9819.   1392.7    9858.   1392.2    9893.   1391.6    9925.    1392.    9949.
GR  1393.8    9962.   1392.7    9974.   1392.2    9982.    1385.    9989.    1384.    9997.
GR  1384.5   10000.   1385.1   10011.   1388.7   10023.    1392.   10031.   1391.2   10045.
GR   1392.   10074.   1391.7   10124.   1391.9   10182.    1392.   10245.   1392.1   10303.
GR  1391.9   10361.    1392.   10395.   1392.6   10401.   1391.6   10404.   1393.3   10414.

ET                      4.1     9940.   10140.
X1  21.742     25.      9975.   10091.    430.     390.     385.
GR   1396.    9733.   1394.6    9753.   1395.1    9777.    1395.    9802.    1395.    9839.
GR  1395.6    9885.   1395.1    9930.   1395.3    9940.   1394.7    9975.   1387.4    9991.
GR  1386.4   10000.   1386.9   10015.   1392.2   10035.   1391.9   10052.   1389.9   10062.
GR  1391.5   10080.   1394.2   10091.   1394.2   10126.   1394.9   10176.    1395.   10240.
GR  1394.6   10281.   1394.8   10324.   1395.2   10355.   1395.3   10367.   1397.3   10376.

ET                      4.1     9900.   10100.
X1  21.840     22.      9946.   10054.    430.     430.     517.
GR  1401.5    9827.   1402.1    9842.   1397.3    9860.   1395.5    9882.    1395.    9913.
GR  1395.3    9931.   1396.2    9946.   1395.7    9953.   1392.1    9967.   1392.6    9984.
GR  1393.7    9997.   1393.3   10000.   1392.5   10020.   1391.1   10033.   1393.5   10045.
GR   1397.   10054.   1396.5   10097.   1397.3   10145.   1397.8   10186.   1397.5   10227.
GR  1397.6   10273.   1398.3   10308.
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ET                                4.1      9830.     10080.
X1   21.895       31.     9975.    10031.     330.      220.      290.
GR   1402.6      9807.    1402.6    9825.    1398.4     9839.    1397.2     9857.    1396.7     9885.
GR   1396.7      9919.    1397.7    9939.    1397.9     9960.    1398.      9975.    1397.1     9981.
GR    1393.      9990.    1391.9   10000.    1392.3    10010.    1394.     10021.    1397.7    10031.
GR   1398.6     10046.    1399.    10078.    1398.4    10113.    1398.6    10149.    1398.7    10187.
GR   1398.5     10225.    1398.1   10251.    1398.6    10292.    1398.6    10333.    1399.3    10364.
GR   1398.8     10399.    1399.5   10428.    1400.5    10446.    1400.5    10458.    1399.7    10463.
GR   1400.9     10470.
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UNION HILLS RD: PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA (BAREA) WITH AN ORIFICE COEFFICIENT. THE 100 YEAR FLOW THROUGH THE PIPES WAS NEGLIGIBLE (18 CFS). UNION HILLS IS THEREFORE MORE APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.

```
ET                                4.1      9650.     10070.
X1   21.933       12.     9865.    10140.     210.      210.      210.
GR    1402.      9060.    1400.3    9440.    1400.      9590.    1398.      9680.    1397.4     9725.
GR    1398.      9780.    1399.4    9840.    1398.      9865.    1396.8    10000.    1398.     10140.
GR    1400.     10285.    1406.    10286.

NC    0.045      0.045    0.045
ET                                4.1      9630.     10051.
X1   21.953       39.     9969.    10029.      75.       75.       74.
GR    1402.      9320.    1400.5    9487.    1400.8     9527.    1401.4     9557.    1400.2     9580.
GR   1401.7      9599.    1401.1    9621.    1400.2     9647.    1399.6     9678.    1398.8     9699.
GR   1398.3      9714.    1397.6    9720.    1396.6     9725.    1398.8     9735.    1399.3     9745.
GR   1398.8      9759.    1397.3    9768.    1398.9     9782.    1398.9     9810.    1400.1     9832.
GR   1402.1      9851.    1401.7    9870.    1403.3     9884.    1403.7     9893.    1403.4     9912.
GR   1402.3      9939.    1401.     9956.    1399.7     9965.    1400.2     9969.    1395.6     9986.
GR   1394.4      9997.    1394.1   10000.    1394.     10010.    1394.9    10018.    1398.3    10029.
GR   1400.1     10044.    1401.6   10058.    1401.4    10064.    1407.     10065.

ET                                4.1      9620.     10030.
X1   22.065       39.     9961.    10028.     430.      630.      591.
GR   1404.2      9230.    1404.     9250.    1402.      9270.    1402.      9500.    1403.1     9594.
GR   1403.6      9604.    1400.4    9627.    1400.1     9645.    1400.6     9657.    1400.3     9680.
GR   1400.5      9700.    1401.9    9717.    1403.3     9731.    1403.7     9746.    1403.9     9761.
GR   1400.1      9776.    1400.     9785.    1401.1     9796.    1401.      9816.    1403.7     9829.
GR   1403.7      9843.    1400.7    9861.    1399.7     9869.    1402.7     9890.    1403.5     9899.
GR   1404.1      9915.    1404.8    9934.    1403.6     9950.    1404.1     9961.    1401.4     9977.
GR    1398.      9989.    1395.8    9995.    1395.8    10000.    1395.9    10006.    1399.4    10010.
GR    1402.     10028.    1402.6   10043.    1406.6    10061.    1407.1    10085.

ET                                4.1      9620.     10020.
X1   22.165       63.     9983.    10018.     530.      530.      528.
GR    1406.      9130.    1405.2    9138.    1405.      9151.    1404.4     9164.    1402.8     9176.
GR   1402.7      9184.    1400.8    9204.    1399.8     9213.    1399.3     9222.    1401.2     9232.
GR    1403.      9256.    1403.8    9282.    1403.8     9308.    1404.3     9334.    1404.2     9364.
GR   1404.1      9396.    1404.     9425.    1404.9     9463.    1405.2     9499.    1405.3     9526.
GR   1404.9      9548.    1403.8    9565.    1402.8     9579.    1404.6     9595.    1404.8     9608.
GR   1402.4      9624.    1400.     9637.    1399.7     9645.    1400.6     9657.    1402.      9669.
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K/14PRINT

GR	1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR	1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR	1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR	1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR	1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR	1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR	1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET			4.1	9650.	10027.					
X1	22.273	57.	9933.	10028.	470.	580.	570.			
GR	1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR	1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR	1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR	1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR	1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR	1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR	1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR	1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR	1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR	1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR	1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR	1408.3	10080.	1408.7	10109.						
ET			4.1	9860.	10040.					
X1	22.410	25.	9973.	10027.	750.	630.	723.			
GR	1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR	1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR	1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR	1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR	1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
ET			4.1	9890.	10050.					
X1	22.483	19.	9941.	10105.	380.	390.	385.			
GR	1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR	1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR	1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR	1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		
ET			4.1	9968.	10064.					
X1	22.578	13.	9968.	10072.	540.	490.	502.			
GR	1417.2	9914.	1417.6	9942.	1416.4	9958.	1416.6	9968.	1406.7	9983.
GR	1406.7	9993.	1407.5	10000.	1408.5	10024.	1408.5	10040.	1408.8	10050.
GR	1415.6	10063.	1421.2	10072.	1421.4	10090.				
ET			4.1	9830.	10028.					
X1	22.675	19.	9736.	10032.	570.	480.	512.			
GR	1419.9	9671.	1419.9	9710.	1419.8	9736.	1410.6	9759.	1411.1	9783.
GR	1410.6	9809.	1409.7	9828.	1410.8	9850.	1411.5	9873.	1413.4	9892.
GR	1412.2	9922.	1411.	9950.	1411.	9976.	1410.7	10000.	1410.6	10015.
GR	1420.	10032.	1428.3	10047.	1426.6	10055.	1426.	10060.		

1671.4PRINT

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ET                          4.1     9977.   10160.
X1   22.794      20.      9983.   10169.     460.     500.     628.
GR   1420.6    9968.    1417.8    9983.   1413.6    9998.   1412.4   10000.   1412.3   10013.
GR   1410.7   10041.    1411.6   10065.   1413.7   10080.   1413.8   10103.   1414.2   10119.
GR   1411.7   10136.    1413.8   10151.   1416.1   10169.   1417.2   10189.   1420.3   10202.
GR   1423.1   10219.     1427.   10244.   1429.9   10261.   1429.8   10278.   1429.8   10282.

ET                          4.1     9951.   10120.
X1   22.880      34.      9927.   10167.     440.     480.     454.
GR   1427.3    9791.     1427.    9807.   1426.5    9815.   1424.8    9827.   1424.6    9838.
GR   1424.8    9863.    1424.8    9883.   1424.5    9903.   1424.7    9917.   1426.4    9927.
GR   1423.9    9934.    1421.4    9947.   1418.5    9958.   1416.1    9968.    1415.    9984.
GR    1414.    9999.    1414.3   10000.   1414.5   10012.   1415.2   10024.   1416.1   10048.
GR   1416.5   10067.    1416.4   10101.   1416.2   10125.   1415.5   10143.   1413.2   10152.
GR    1413.   10156.    1414.8   10160.   1424.2   10167.   1426.6   10188.   1428.4   10200.
GR   1430.9   10214.    1433.5   10230.   1433.8   10241.   1433.5   10248.

ET                          4.1     9890.   10026.
X1   22.990      35.      9739.   10034.     480.     530.     581.
GR   1427.7    9668.    1427.6    9697.   1425.6    9719.   1425.3    9730.   1425.4    9739.
GR   1423.9    9751.    1422.5    9767.   1422.4    9785.   1421.5    9804.   1421.3    9817.
GR   1421.3    9829.    1420.8    9843.   1419.5    9855.   1418.9    9864.   1417.9    9873.
GR   1419.4    9886.     1420.    9903.   1420.6    9921.   1420.8    9935.   1420.3    9949.
GR    1420.    9963.    1419.1    9977.   1419.1    9995.   1419.1   10000.   1418.7   10014.
GR   1420.3   10020.    1427.9   10034.   1427.3   10044.   1428.3   10060.   1430.5   10076.
GR   1435.7   10094.    1437.4   10108.   1438.7   10119.   1436.3   10126.   1435.1   10133.

ET                          4.1     9958.   10090.
X1   23.097      48.      9951.   10121.     640.     490.     565.
GR   1433.9    9713.    1433.9    9740.   1433.8    9758.   1432.3    9772.   1432.1    9778.
GR   1433.5    9794.    1433.5    9811.   1433.5    9835.   1433.4    9849.   1431.1    9864.
GR    1430.    9878.    1430.1    9885.    1431.    9892.   1429.6    9901.   1429.1    9916.
GR   1429.6    9925.    1431.3    9935.   1432.2    9945.   1432.3    9951.   1427.9    9964.
GR   1426.4    9977.    1425.6    9988.   1425.1    9999.   1425.1   10000.    1426.   10012.
GR   1426.1   10021.    1426.5   10044.   1426.5   10063.   1426.5   10073.   1426.5   10082.
GR   1425.5   10093.    1426.4   10101.   1428.5   10112.   1430.8   10121.   1430.1   10135.
GR    1430.   10150.    1431.6   10163.   1432.8   10176.    1433.   10198.   1432.7   10221.
GR   1431.6   10247.    1430.9   10267.   1430.6   10286.   1431.5   10296.   1433.4   10310.
GR   1438.3   10337.    1439.7   10353.   1440.5   10363.

        THE BEARDSLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
        CROSS SECTION.  THE BEARDSLEY ROAD CENTERLINE IS AT RM 23.168

                    4.1   9830.  10140.

X1   23.168      22.      9777.   10116.     330.     300.     375.
GR   1435.4    9358.    1435.5    9412.   1435.6    9477.   1434.7    9533.   1433.2    9598.
GR   1431.8    9657.    1430.8    9718.   1429.5    9777.   1428.9    9827.    1429.    9877.
GR   1429.1    9942.     1429.    9999.   1429.1   10000.   1429.8   10053.   1430.3   10116.
GR   1431.8   10176.    1433.6   10230.   1434.3   10274.   1434.9   10326.   1435.5   10363.
GR   1435.6   10399.    1435.8   10409.

        DUE TO BREAKOUTS (SPLIT FLOWS) BETWEEN RM 23.55 AND RM 23.8, THE
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14PRINT

50 AND 100 YEAR Q'S ARE REDUCED PER THE FOLLOWING TABLE.

NO ENCROACHMENTS ARE COMPUTED FOR THE FOLLOWING REACH BETWEEN RM 23.253 AND 7TH STREET. FOR PURPOSES OF A FLOODWAY, A 100 FT CORRIDOR IS MAINTAINED OUTSIDE OF THE LEVEES (WHICH ARE LIKELY TO BE ERODABLE) TO PASS THE SPLIT FLOWS WHICH HAVE BEEN REMOVED FROM THE MODEL, AS DISCUSSED WITH CITY OF PHOENIX AND FLOOD CONTROL DISTRICT REPRESENTATIVES. IF THIS CORRIDOR IS NOT MAINTAINED, THE REDUCTION IN Q FOR THIS MODEL IS NOT VALID, RESULTING IN A FLOODWAY PROFILE ABOVE THE NATURAL PROFILE BY MORE THAN THE STATUTORY 1.0 FT.

	FULL Q	REDUCED Q
50 YEAR	4800.	3300
100 YEAR	5500.	3400

THE 10 YEAR Q (3200 CFS) IS UNAFFECTED

```
QT       2.      3400.      3400.
NC   0.035       0.05       0.04
                    4.1  9978.5 10023.2
X1  23.253         8.      9973.     10038.       470.       450.       459.
GR  1437.5      9973.    1425.5      9995.    1425.2     10000.    1427.4     10008.    1429.2     10015.
GR  1444.2     10038.    1444.9     10052.     1445.     10060.
                    4.1   9969.  10036.

X1  23.334        10.      9962.     10055.       400.       420.       417.
GR  1443.8      9962.    1435.6      9979.    1433.2      9990.    1432.6     10000.    1433.2     10012.
GR  1435.4     10022.    1438.5     10032.    1444.2     10044.    1449.8     10055.    1449.6     10063.

X1  23.416        10.      9974.     10053.       400.       430.       433.
GR  1447.7      9958.    1447.8      9974.    1439.2      9989.    1436.5      9999.    1436.6     10000.
GR  1437.2     10017.    1437.6     10030.    1444.4     10041.    1450.2     10053.    1450.4     10066.

X1  23.514         8.      9973.     10039.       560.       470.       517.
GR  1451.5      9965.    1451.4      9973.    1439.8      9989.    1439.6     10000.    1440.1     10012.
GR  1441.5     10022.    1443.6     10029.    1451.1     10039.
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SPECIAL BRIDGE IS USED TO MODEL EMBANKMENT PLACED IN THE CHANNEL TO ALLOW VEHICULAR ACCESS BETWEEN THE LANDFILL ON THE LEFT AND THE GRAVEL PIT ON THE RIGHT. THE EMBANKMENT MAY WASH OUT, BUT FOR THIS STUDY, IT IS ASSUMED TO REMAIN. LOW FLOWS PASS THROUGH 2-36" CMP'S.

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X1  23.544                                          190.       150.       158.                  1.8
X3      10.                                                                          1445.      1445.
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SB    1.25      2.48      3.2       0.       5.7       1.       14.1       0.      1442.     1441.4
X1   23.555                                  60.       60.       60.                 0.6

       ELTRD IS 1448.4+0.6HV = 1449

X2                             1.      1445.     1449.
X3      10.                                                                1480.     1480.
BT      10.      9930.     1452.       0.      9939.     1451.2       0.     9951.     1451.1       0.
BT    9967.    1449.8        0.    9987.     1448.4        0.    10000.    1448.4        0.    10019.
BT   1448.6        0.    10041.    1449.5        0.    10055.     1450.        0.    10070.     1452.
BT       0.

X1   23.591        17.    9968.    10045.      100.      210.      190.

       ARTIFICIAL LEVEES ARE SET VERY HIGH ON THE LEFT AND RIGHT OVERBANKS
       USING THE X3 CARD TO CONSIDER ONLY THE CHANNEL AREA AS EFFECTIVE.  SPLIT
       FLOW THAT BREAKS OUT UPSTREAM IS ACCOUNTED FOR BY THE REDUCED Q.  FLOWS
       ARE RETURNED TO CAVE CREEK DOWNSTREAM AT BEARDSLEY ROAD.

X3      10.                                                                1480.     1480.
GR    1460.     9700.     1448.     9760.     1448.     9850.     1452.9    9959.     1452.9    9968.
GR   1446.8     9982.    1444.6     9993.    1444.2    10000.    1444.2    10013.    1444.9    10023.
GR   1449.9    10036.    1453.8    10045.    1451.9    1004B.     1448.    10070.     1448.     10430.
GR    1450.    10770.     1452.    11200.

X1   23.691        43.    9965.    10036.      510.      540.      528.

       HIGH ARTIFICIAL LEVEE

X3      10.                                                                1480.     1480.
GR   1461.1     9722.    1449.4     9747.    1449.4     9767.    1449.5    9784.     1449.1    9800.
GR   1448.3     9819.    1448.6     9832.    1448.3     9866.     1449.    9894.     1449.3    9913.
GR   1450.2     9925.    1453.5     9936.    1456.1     9944.    1455.4    9951.     1457.3    9955.
GR   1457.6     9965.    1450.8     9980.    1448.5     9985.    1447.2    9991.     1446.6    9999.
GR   1446.4    10000.     1447.    10011.    1449.6    10017.    1451.3    10028.    1455.3    10036.
GR   1453.2    10045.    1452.4    10054.    1451.3    10057.    1452.2    10062.    1452.4    10077.
GR   1452.2    10094.    1451.7    10108.    1452.6    10117.    1451.4    10123.    1452.7    10128.
GR    1451.    10138.    1452.3    10143.    1451.7    10147.    1453.4    10155.    1452.1    10160.
GR    1452.    10320.     1454.    10560.     1456.    10730.

       Q IS NOW CHANGED TO BE THE AVERAGE OF THE FULL Q UPSTREAM OF THE
       BREAKOUT AND OF THE REDUCED Q DOWNSTREAM OF THE BREAKOUT.

QT       2.      4350.     4350.
X1   23.815        31.    9951.    10037.      650.      680.      655.

       HIGH ARTIFICIAL LEVEE

X3      10.                                                                1480.     1480.
GR    1470.     9650.    1459.3     9716.    1453.5     9738.    1453.1    9772.     1453.4    9812.
GR   1454.5     9857.    1455.1     9890.     1455.     9914.    1455.4    9941.     1458.9    9951.
GR    1458.    9963.     1451.4     9979.    1449.7     9988.    1449.9    9996.     1449.7    10000.
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K/14PRINT

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GR   1449.7     10017.     1454.6     10028.     1457.8     10037.     1456.8     10043.     1456.8     10060.
GR   1456.9     10081.     1457.1     10110.     1458.2     10140.     1458.4     10157.     1459.5     10172.
GR   1458.5     10182.      1456.     10195.     1457.2     10215.     1458.7     10226.     1457.1     10235.
GR   1465.5     10249.

       Q IS NOW CHANGED TO BE THE FULL Q UPSTREAM OF THE BREAKOUT

QT       2.      5300.      5300.
X1   23.912       12.      9967.     10043.      480.       510.       512.

       HIGH ARTIFICIAL LEVEE

X3      10.                                                                  1480.      1480.
GR   1463.9      9868.     1461.7      9878.     1460.6      9898.     1460.7      9925.     1461.4      9950.
GR   1461.3      9967.     1451.3      9983.     1447.9      9994.      1448.     10000.     1447.9     10010.
GR   1454.9     10026.     1460.9     10043.

X1   23.989         9.      9937.     10049.      400.       410.       407.
GR   1465.6      9937.     1457.9      9957.     1452.6      9977.     1450.8      9989.     1449.7     10000.
GR   1450.5     10014.     1452.5     10024.      1458.     10036.     1465.8     10049.

       7TH STREET  (SPECIAL BRIDGE).  THE GR CARDS FROM SECTION 24.106 TAKEN
       UPSTREAM OF 7TH STREET ARE REPEATED AT THE DOWNSTREAM FACE OF THE BRIDGE
       AS SECTION 24.086 WITH PSXECE = -1.3.

NC                                        0.3        0.5
X1   24.086       12.      9972.     10044.      450.       560.       512.                -1.3
X3      10.                                                                  1463.7     1463.7
GR   1470.1      9942.     1464.1      9955.     1454.9      9972.     1454.9     10044.      1456.     10052.
GR   1458.5     10064.     1461.9     10091.     1463.7     10108.     1465.7     10123.     1466.1     10136.
GR   1466.4     10155.     1467.4     10310.

SB       0.9      1.56         3.       100.       71.6         3.       590.         0.      1453.6     1453.6
X1   24.096                                        56.        56.        56.

       ELTRD IS 1464.7+2HV = 1466.7

X2                              1.     1462.2     1466.7
X3      10.                                                                  1466.      1466.

ET                             4.1      9955.     10055.
X1   24.106       13.      9955.     10064.        80.        20.        53.
GR   1470.1      9942.     1464.1      9955.     1455.2      9972.     1454.7      9997.     1454.2     10000.
GR   1454.9     10028.      1456.     10052.     1458.5     10064.     1461.9     10091.     1463.7     10108.
GR   1465.7     10123.     1466.1     10136.     1466.4     10155.

NC                                        0.1        0.3
ET                             4.1      9950.     10050.
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K/S4PRINT

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X1   24.195      13.     9933.    10142.      470.      460.      470.
GR   1498.7     9862.    1497.1    9889.    1470.4     9933.    1454.1    9961.    1453.6    9996.
GR   1453.6    10000.    1453.9   10032.    1455.5    10052.    1456.3   10073.    1458.8   10093.
GR   1462.3    10117.    1466.4   10142.    1468.9    10164.

ET                        4.1      9940.    10080.
X1   24.322      11.     9871.    10064.      640.      630.      671.
GR   1473.7     9820.    1463.5    9871.    1453.2     9895.    1451.6    9972.    1452.1   10000.
GR   1454.5    10042.    1456.8   10064.    1457.7    10134.    1459.6   10177.    1465.2   10220.
GR   1470.9    10262.

NC    0.045     0.045     0.045
ET                        4.1      9927.    10080.
X1   24.444      16.     9928.    10122.      640.      600.      644.
GR   1478.8     9885.    1478.7    9906.    1465.     9928.    1457.6    9939.    1458.     9972.
GR   1457.3     9995.    1457.7   10000.    1459.1    10027.    1460.4   10064.    1459.3   10097.
GR   1461.7    10122.    1458.9   10142.    1460.7    10166.    1460.3   10180.    1468.5   10215.
GR   1474.2    10230.

ET                        4.1      9950.    10160.
X1   24.542      20.     9914.    10187.      470.      530.      517.
GR   1488.2     9844.    1464.     9914.    1463.2     9948.    1460.4    9968.    1459.8    9996.
GR   1459.8    10000.    1461.4   10017.    1462.3    10033.    1470.7   10056.    1470.3   10083.
GR   1472.2    10112.    1470.9   10127.    1464.4    10141.    1462.5   10166.    1463.    10171.
GR   1464.7    10175.    1467.8   10187.    1473.8    10237.    1475.2   10268.    1478.9   10283.

      THE DEER VALLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
      CROSS SECTION.  THE DEER VALLEY ROAD CENTERLINE IS AT RM 24.635.


ET                        4.1      9940.    10060.
X1   24.635       8.     9876.    10111.      650.      220.      491.
GR   1480.9     9752.    1474.5    9876.    1467.     9983.    1466.8   10000.    1467.9   10037.
GR   1472.4    10111.    1478.6   10193.    1480.1    10247.

QT       2.     5200.     5200.

      DIVIDED FLOW OCCURS FROM SECTION 24.738 TO 25.163.  ALTHOUGH THE RIGHT
      OVERBANK IS SOMETIMES LOWER THAN THE CHANNEL, EFFECTIVE FLOW IS
      CONTROLLED DOWNSTREAM AT SECTION 24.738.  OVERBANK LOW ELEVATIONS ARE
      ARTIFICIALLY ADJUSTED AT SECTIONS 24.838 TO 25.163 TO YIELD QROB =
      QROB AT SECTION 24.738 + OR - 10%.  NATURAL CONDITIONS AT SECTION
      25.048 RESULT IN A QROB THAT IS LESS THAN SECTION 24.738.

ET                        4.1      9936.    10200.
X1   24.738      21.     9897.    10038.      350.      630.      544.
GR   1490.4     9703.    1489.7    9717.    1479.2     9736.    1479.3    9805.    1477.7    9884.
GR   1481.2     9897.    1477.6    9931.    1472.8     9965.    1472.3    9986.    1472.     10000.
GR   1473.5    10023.    1480.9   10038.    1476.7    10045.    1480.8   10067.    1477.6   10079.
GR   1473.6    10088.    1473.6   10127.    1472.5    10224.    1474.4   10291.    1473.6   10330.
GR   1477.6    10343.
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K/14PRINT

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ET                          4.1      9968.      10350.
X1   24.838        20.      9945.     10019.       470.       450.       528.
  1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
   1475.  10004.  1483.5  10019.  1477.3  10032.  1479.5  10066.  1469.1  10111.
  1467.6  10133.  1468.5  10162.  1472.5  10185.  1469.9  10199.  1469.7  10219.
   1470.  10270.   1466.  10365.  1466.  10450.  1468.  10630.  1490.  10660.
GR   1488.5      9909.     1483.8      9945.      1477.7      9986.      1474.8     9991.     1474.7     10000.
GR    1475.     10004.     1483.5     10019.      1479.      10032.      1479.5    10066.     1479.      10111.
GR    1479.     10133.      1479.     10162.      1479.      10185.      1479.     10199.     1479.      10219.
GR    1479.     10270.      1479.     10365.      1479.      10450.      1479.     10630.     1490.      10660.

ET                          4.1      9860.      10300.
X1   24.943        17.      9983.     10017.       530.       570.       554.
  1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
  1482.4   9945.  1481.8   9983.  1478.   9990.  1477.9  10000.  1477.7  10004.
  1484.8  10017.  1483.6  10032.  1478.1  10044.  1470.  10080.  1470.  10540.
   1480.  10610.  1503.3  10690.
GR   1504.8      9651.     1494.9      9694.      1493.1      9736.      1481.7     9813.     1480.7     9926.
GR   1482.4      9945.     1481.8      9983.      1478.       9990.      1477.9    10000.     1477.7     10004.
GR   1484.8     10017.     1483.6     10032.      1481.      10044.      1481.     10080.     1481.      10540.
GR    1481.     10610.     1503.3     10690.

ET                          4.1      9850.      10250.
X1   25.048        23.      9966.     10017        580.       520.       554.
GR   1497.2      9659.     1493.6      9692.      1486.7      9707.      1486.      9817.     1486.      9941.
GR   1486.6      9966.     1485.7      9981.      1484.       9986.      1484.     10000.     1493.6     10017.
GR   1488.3     10026.      1486.     10062.      1485.4     10154.      1486.5    10223.     1483.7     10232.
GR   1484.6     10247.      1488.     10258.      1487.5     10405.      1492.2    10420.      1489.     10431.
GR    1484.     10450.      1484.     10470.       1500.     10525.

QT       2.      4900.      4900.
ET                          4.1      9940.      10175.
X1   25.163        16.      9972.     10025.       640.       580.       607.
  1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
  1486.2   9984.  1486.3  10000.  1486.  10005.  1493.1  10025.  1485.3  10044.
  1486.3  10088.  1486.3  10147.  1486.4  10220.  1488.4  10291.  1498.8  10312.
  1499.8  10417.
GR   1499.3      9878.     1492.6      9917.      1490.2      9947.      1489.9     9965.     1491.6     9972.
GR   1486.2      9984.     1486.3     10000.      1486.      10005.      1493.1    10025.      1489.     10044.
GR    1489.     10088.      1489.     10147.      1489.      10220.      1489.     10291.     1498.8     10312.
GR   1499.8     10417.

        THE BREAKOUT IN THE RIGHT OVERBANK IS NOT EFFECTIVE DUE TO DOWNSTREAM
        PONDING.  HIGH ARTIFICIAL LEVEES HAVE BEEN SET ON THE RIGHT AT SECTIONS
        25.262, 25.374, AND 25.434.


ET                          4.1      9750.      10023.
X1   25.262        28.      9948.     10030.       470.       570.       523.
X3      10.                                                          1491.6     1510.
GR   1503.2      9465.     1506.4      9470.      1489.6      9513.      1490.2     9547.     1492.2     9618.
GR   1491.5      9646.     1492.7      9689.      1492.6      9707.      1490.5     9823.     1491.6     9948.
GR   1489.1      9969.     1493.6      9987.      1490.2     10000.      1490.8    10016.     1496.8     10030.
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GR   1488.4    10044.    1487.4    10059.     1486.     10070.    1484.4    10260.     1486.     10380.
GR    1492.    10420.     1492.    10450.     1484.     10475.     1484.    10510.     1488.     10535.
GR    1486.    10575.     1488.    10585.     1494.     10610.

ET                          4.1      9925.    10023.
X1   25.374       16.      9969.    10023.      680.       300.       591.
X3      10.                                                                1499.3
GR    1510.     9628.     1498.2     9659.     1496.     9704.     1495.7     9838.     1496.2     9920.
GR    1496.     9933.     1497.8     9944.    1497.8     9950.     1495.6     9955.     1496.7     9963.
GR   1499.3     9969.     1493.5     9986.    1493.3    10000.     1493.5    10011.     1498.8    10023.
GR    1510.   10023.1

NC     0.05      0.035      0.035
ET                          4.1      9970.    10036.
X1   25.434       14.      9968.    10036.      400.       190.       317.
X3      10.                                                                1504.9
GR   1511.5     9463.     1506.8     9561.    1504.8     9631.     1504.9     9716.      1502.     9788.
GR   1501.3     9885.     1500.8     9942.    1500.6     9954.     1504.9     9968.     1496.8     9990.
GR   1496.6    10000.     1495.8    10018.     1504.    10036.      1510.   10036.1

ET                          4.1      9970.    10050.
X1   25.500        9.      9908.    10105.      250.       420.       349.
GR   1511.5     9908.     1506.9     9927.    1504.5     9943.     1499.9     9957.     1497.7    10000.
GR   1498.5    10025.     1503.7    10061.    1507.7    10094.      1509.    10105.

        CAP CANAL OVERSHOOT STRUCTURE


NC                                      0.3       0.5

                SECTION IN DOWNSTREAM OUTLET OF OVERSHOOT IN STILLING POOL

ET                          4.1      9960.    10040.
X1   25.523        9.      9963.    10037.      120.       120.       121.
GR    1510.     9900.      1508.     9930.     1498.     9950.      1498.     9963.      1496.     9964.
GR    1496.    10036.      1498.    10037.     1498.    10050.      1510.    10100.

                SECTION AT DOWNSTREAM CREST OF OVERSHOOT WHERE FLOW PASSES
                THROUGH CRITICAL DEPTH. DO NOT ENCROACH.


NC     0.05      0.035      0.015
X1   25.534        4.      9963.    10037.       58.       58.        58.
GR    1515.     9963.    1505.54     9964.    1505.54    10036.      1515.    10037.

                SECTION AT UPSTREAM END OF NARROW CHUTE. DO NOT ENCROACH.


X1   25.551                                    90.       90.        90.

                SECTION AT UPSTREAM FLARED ENTRANCE TO OVERSHOOT. DO NOT
                ENCROACH.
```

14PRINT

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X1   25.557       4.     9954.    10046.       32.       32.       32.
GR    1515.     9954.  1505.54     9973.  1505.54    10027.     1515.    10046.

                NATURAL SECTION UPSTREAM OF OVERSHOOT.  SET ENCROACHMENTS
                TO NATURAL SSTA & ENDSTA.


NC    0.035     0.035     0.035
QT        2.     2900.     2900.
ET                          4.1      9949.    10050.
X1   25.561       5.     9948.    10069.       20.       20.       21.
GR   1514.9     9948.  1505.6     9971.  1505.7    10000.  1506.3    10048.  1515.2    10069.

NC                                    0.1       0.3
QT        2.     2700.     2700.
ET                          4.1      9950.    10050.
X1   25.680       36.     9927.    10093.      580.      660.      628.
GR   1519.8     9136.  1518.8     9203.  1516.1     9267.  1515.7    9325.  1515.7     9359.
GR   1516.7     9372.  1514.9     9462.  1514.2     9504.  1515.2    9516.  1515.6     9559.
GR   1515.7     9593.    1515.    9622.  1516.9     9637.  1515.3    9653.  1512.1     9664.
GR   1512.4     9688.  1513.8     9704.  1518.5     9720.  1510.6    9747.  1514.3     9796.
GR   1513.9     9866.  1514.4     9927.  1508.7     9946.  1511.3    9961.  1511.2     9985.
GR   1506.5     9997.  1506.8    10000.  1506.8    10011.  1510.5   10022.  1511.1    10057.
GR   1509.6    10063.  1511.2    10093.  1512.4    10167.    1510.   1027B.  1508.7    10295.
GR   1534.1    10338.

QT        2.     2500.     2500.
ET                          4.1      9982.    10082.
X1   25.786       32.     9978.    10056.      600.      470.      560.
X3       10.                                                      1518.9
GR   1522.7     9477.  1522.5     9507.  1515.5     9529.  1515.7    9575.  1514.1     9667.
GR   1514.3     9705.  1513.4     9736.    1517.    9753.  1516.8    9776.  1517.2     9794.
GR   1513.5     9822.  1516.2     9837.  1512.2     9848.  1516.5    9872.  1514.6     9883.
GR    1517.     9913.    1517.    9922.  1515.2     9944.  1518.9    9964.  1518.9     9978.
GR   1511.2     9990.  1511.4    10000.  1510.7    10010.  1514.5   10020.  1512.2    10041.
GR   1515.8    10056.  1515.3    10189.  1517.3    10353.  1515.1   10418.    1514.   10435.
GR   1514.2    10440.  1532.8    10465.

QT        2.     2300.     2300.
ET                          4.1      9959.    10059.
X1   25.947       14.     9950.    10066.      870.      830.      850.
GR    1524.     9816.  1522.7     9917.  1522.7     9950.  1518.8    9971.  1518.3     9986.
GR   1514.4    10000.  1514.5    10011.  1518.4    10028.  1519.7   10037.  1520.6    10066.
GR   1519.3    10107.  1518.2    10113.  1518.8    10119.  1529.5   10139.

QT        2.     2200.     2200.
ET                          4.1      9950.    10023.
X1   26.058       15.     9966.    10024.      540.      570.      586.
GR   1529.2     9598.  1526.6     9747.  1527.1     9765.    1526.   9790.  1523.3     9845.
GR   1522.1     9904.  1521.1     9927.    1521.    9951.    1522.   9966.  1520.8     9976.
GR   1517.4    10000.  1516.2    10010.  1516.8    10014.    1524.   10024.  1541.9    10048.
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QT       2.      2000.      2000.
ET                           4.1      9970.     10040.
X1   26.152        13.      9956.     10069.      240.      550.      496.
GR   1530.2      9789.     1529.9      9847.     1527.3     9895.     1525.4     9956.     1522.3     9972.
GR    1520.      9982.     1520.1     10000.     1520.5    10018.     1522.2    10050.      1526.    10069.
GR   1530.7     10102.     1531.9     10114.     1533.1    10139.

QT       2.      1900.      1900.
ET                           4.1      9973.     10060.
X1   26.265        10.      9955.     10029.      580.      610.      597.
GR   1533.9      9829.     1533.6      9913.     1534.3     9916.     1531.7     9955.     1523.8     9995.
GR    1522.     10000.     1522.5     10010.     1524.8    10015.     1526.5    10029.     1529.5    10115.

QT       2.      1700.      1700.
ET                           4.1      9967.     10064.
X1   26.372        14.      9966.     10080.      600.      510.      565.
GR   1558.5      9909.     1544.2      9928.     1535.7     9945.     1531.6     9966.     1528.4     9981.
GR   1525.9      9990.     1523.9      9995.     1523.8    10000.     1527.3    10016.     1526.6    10034.
GR   1529.9     10055.     1533.8     10080.     1534.6    10100.     1535.5    10116.

QT       2.      1600.      1600.
ET                           4.1      9955.     10045.
X1   26.492        17.      9866.     10084.      640.      610.      634.
GR   1539.5      9819.     1538.5      9851.     1537.5     9866.     1533.3     9880.     1530.9     9891.
GR   1530.2      9920.     1527.7      9953.     1525.8     9972.     1525.8     9994.     1525.7    10000.
GR   1526.2     10019.     1528.4     10039.     1530.4    10062.     1534.8    10078.      1536.    10084.
GR   1536.4     10097.     1537.1     10100.

NC      0.04       0.04       0.03
QT       2.      1300.      1300.
ET                           4.1      9945.     10025.
X1   26.582        37.      9869.     10028.      460.      480.      475.
GR   1538.6      9388.     1538.3      9411.      1535.     9445.     1532.2     9471.     1530.3     9493.
GR   1526.4      9510.     1525.5      9519.     1525.3     9539.     1526.3     9568.     1526.5     9602.
GR   1527.2      9622.     1526.7      9655.     1527.3     9691.     1526.9     9725.     1527.2     9752.
GR   1527.4      9786.     1528.1      9817.     1527.9     9845.     1528.2     9869.     1526.9     9894.
GR   1524.1      9911.     1524.9      9937.     1525.2     9958.     1525.6     9983.     1525.7    10000.
GR    1526.     10014.     1527.2     10028.     1526.4    10047.     1527.2    10086.     1526.5    10123.
GR   1526.8     10140.     1528.8     10157.     1528.8    10176.     1533.8    10195.     1536.6    10211.
GR   1536.7     10224.     1537.5     10226.

ET                           4.1      9970.     10030.
X1   26.673        44.      9955.     10077.      510.      460.      480.
X3       10.                                                                  1535.
GR   1549.8      9490.     1541.8      9544.     1534.8     9585.     1533.1     9600.     1531.8     9629.
GR   1530.8      9656.     1530.5      9681.     1530.5     9715.     1530.5     9748.     1531.1     9773.
GR   1532.3      9803.     1532.9      9829.     1532.6     9851.     1532.1     9868.     1532.7     9898.
GR   1532.9      9922.     1532.6      9944.     1534.3     9955.     1532.6     9970.     1532.7     9988.
GR   1532.8     10000.     1531.8     10013.     1532.6    10023.     1532.2    10047.     1531.9    10061.
GR   1533.2     10077.     1533.2     10105.     1534.5    10130.     1536.4    10141.     1537.8    10149.
GR   1537.4     10165.     1536.9     10192.     1533.6    10205.     1533.2    10237.     1533.2    10265.
GR   1534.2     10285.     1534.8     10304.     1535.1    10331.     1535.6    10348.     1539.7    10359.
GR   1539.2     10378.     1539.9     10387.      1552.    10411.     1550.3    10420.
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KC714PRINT

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QT      2.     1100.     1100.
ET                        4.1      9981.    10031.
X1   26.784       29.     9975.    10080.      590.      530.      586.
GR   1556.2     9628.    1553.4     9629.    1551.5     9652.    1550.5     9674.    1549.6     9695.
GR   1548.7     9721.    1549.2     9749.    1548.9     9783.    1549.4     9822.    1549.5     9859.
GR   1549.4     9898.    1549.7     9925.    1550.7     9951.    1551.2     9975.    1542.7     9985.
GR   1543.2    10000.    1544.4    10019.    1545.4    10045.    1550.2    10069.    1551.5    10080.
GR   1550.8    10091.    1551.     10110.    1551.     10132.    1550.9    10150.    1551.     10162.
GR   1552.5    10191.    1552.7    10228.    1552.     10271.    1551.9    10279.

QT      2.     1000.     1000.
ET                        4.1      9975.    10025.
X1   26.883       21.     9773.    10122.      530.      500.      523.
GR   1555.5     9726.    1549.5     9759.    1544.7     9773.    1542.     9791.    1540.1     9803.
GR   1540.1     9895.    1540.1    10000.    1540.1    10062.    1540.6    10074.    1541.3    10093.
GR   1542.8    10122.    1542.6    10148.    1542.5    10166.    1544.1    10179.    1546.3    10194.
GR    1549.    10209.    1553.7    10235.    1555.3    10255.    1557.4    10265.    1557.4    10279.
GR   1556.2    10282.

QT      2.      900.      900.
ET                        4.1      9975.    10025.
X1   26.984       32.     9943.    10170.      480.      460.      533.
GR   1560.6     9811.    1559.7     9833.    1557.2     9861.    1554.5     9891.    1549.4     9920.
GR   1545.5     9943.    1543.8     9953.    1542.3     9968.    1542.1    10000.    1545.1    10012.
GR   1540.6    10023.    1540.6    10107.    1540.6    10124.    1541.7    10135.    1540.5    10147.
GR   1540.5    10156.    1546.5    10170.    1547.3    10189.    1547.5    10203.    1547.7    10218.
GR   1546.7    10231.    1543.5    10241.    1542.8    10256.    1542.3    10271.    1542.3    10282.
GR   1544.6    10290.    1543.4    10300.    1543.3    10310.    1544.8    10323.    1545.3    10333.
GR   1558.9    10356.    1551.6    10369.

ET                        4.1      9883.7   10013.1
X1   27.060       33.     9980.    10019.      270.      470.      401.
X3      10.                                                                 1565.
GR   1566.5     9583.    1559.9     9608.    1557.5     9614.    1557.6     9617.    1560.3     9624.
GR   1560.6     9643.    1560.9     9670.    1559.8     9683.    1559.6     9706.    1560.      9720.
GR   1559.4     9740.    1559.5     9772.    1560.4     9795.    1560.      9824.    1558.8     9852.
GR   1558.7     9879.    1558.9     9895.    1558.5     9911.    1559.2     9940.    1560.      9954.
GR   1559.7     9963.    1560.6     9967.    1560.8     9980.    1554.6     9997.    1554.1    10000.
GR   1555.1    10005.    1562.6    10019.    1562.2    10040.    1562.1    10056.    1563.4    10068.
GR   1565.2    10081.    1566.     10093.    1563.9    10103.

QT      2.      600.      600.
ET                        4.1      9881.1   10020.
X1   27.166       36.     9977.    10023.      560.      560.      560.
X3      10.                                                      1565.     1565.
GR    1572.     9622.    1572.2     9639.    1571.5     9661.    1569.4     9686.    1568.5     9709.
GR   1568.1     9719.    1568.4     9730.    1567.4     9742.    1567.1     9762.    1567.9     9772.
GR   1568.8     9787.    1567.6     9811.    1566.7     9830.    1566.      9847.    1562.3     9858.
GR   1558.7     9868.    1557.6     9870.    1558.4     9872.    1560.6     9875.    1560.9     9884.
GR   1560.9     9911.    1560.8     9943.    1560.7     9955.    1564.2     9963.    1564.2     9977.
GR   1555.2     9995.    1555.2    10000.    1555.2    10008.    1563.9    10023.    1563.9    10038.
GR   1561.1    10043.    1561.1    10067.    1560.8    10098.    1560.9    10129.    1561.5    10142.
GR   1562.8    10146.
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KC/4PRINT

SECTION 27.294 IS NEAR THE DOWNSTREAM OUTLET OF CAVE BUTTE DAM.

```
QT       2.       400.       400.
ET                           4.1       9972.     10022.2
X1    27.294        26.       9967.     10027.      710.       630.       676.
GR    1591.6       9811.     1589.8      9827.     1587.9      9839.     1589.7      9851.     1588.2      9870.
GR    1585.6       9883.     1584.2      9888.     1584.4      9900.     1583.9      9914.     1568.3      9948.
GR    1565.9       9954.     1565.2      9967.     1558.3      9980.     1557.2      9984.     1556.2      9987.
GR     1556.      10000.      1556.     10007.     1564.6     10027.     1565.6     10037.      1573.     10054.
GR    1572.8      10074.     1573.4     10093.      1574.     10112.      1575.     10135.     1575.4     10163.
GR    1575.6      10171.
```

THE CENTERLINE OF CAVE BUTTE DAM IS AT RM 27.365.

FOLLOWING IS THE TRUBUTARY RUN FOR THE EAST FORK OF CAVE CREEK.

SECTION 19.56 IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST FORK. THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE EAST FORK OF CAVE CREEK. THE CONFLUENCE OCCURS AT RM 19.608

```
NC   0.035      0.035      0.035        0.1        0.3
QT       2.     14600.     14600.
ET                           4.1     9921.37      10061.
X1   -19.56        17.       9929.     10065.      730.       720.       729.
GR    1346.1       9801.     1329.7      9902.     1329.7      9929.     1316.5      9950.     1316.8      9978.
GR    1315.6      10000.     1315.6     10008.     1316.6     10026.     1316.4     10035.     1317.5     10043.
GR    1330.6      10065.     1330.8     10099.     1330.5     10146.     1330.2     10195.     1330.9     10208.
GR    1331.2      10223.     1332.1     10301.
```

SECTION 0.029 IS JUST UPSTREAM OF THE CONFLUENCE WITH CAVE CREEK WASH. SECTION 19.556 DOWNSTREAM IN THE WASH IS USED TO START THE RUN ON THE EAST FORK.

```
QT       2.       9500.      9500.
NC   0.035       0.035      0.015
ET                           4.1     9942.56      10073.1
X1   0.029        15.       9942.     10043.       380.       450.       430.
GR    1336.7       9849.     1332.4      9893.     1329.5      9942.     1326.3      9954.     1326.3      9963.
GR    1319.8       9982.     1319.6      9995.     1319.6     10000.     1319.6     10019.     1328.2     10043.
GR     1330.      10090.     1330.3     10128.     1332.4     10166.     1333.1     10216.     1333.1     10217.

NC   0.035       0.035       0.03
ET                           4.1       9905.     10092.
X1   0.112        22.       9887.     10101.       430.       450.       483.
GR    1357.6       9597.     1333.1      9743.     1332.6      9804.     1332.      9816.     1331.8      9863.
GR    1332.1       9887.     1329.4      9906.     1329.4      9915.     1323.4     9937.     1322.3      9949.
GR    1321.5       9985.     1321.6      9999.     1321.6     10000.     1322.     10037.     1323.2     10049.
GR    1329.3      10076.     1334.8     10101.     1334.8     10139.     1333.4     10214.     1334.8     10286.
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K/J 4PRINT

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GR   1334.5     10320.     1334.5     10321.

ET                          4.1        9910.      10110.
X1     0.198        26.     9897.      10133.      460.       420.       454.
GR   1334.8      9569.     1336.5      9570.     1335.1      9591.     1335.7      9694.     1333.8      9754.
GR   1333.3      9863.     1332.4      9897.     1329.4      9916.     1325.5      9937.     1323.8      9965.
GR   1324.5      9981.     1324.8      9999.     1324.8     10000.     1324.1     10044.     1324.5     10058.
GR   1328.8     10085.     1328.8     10093.     1336.3     10122.     1337.8     10133.     1336.      10138.
GR   1337.3     10170.     1337.1     10262.     1337.      10356.     1345.1     10370.     1337.1     10382.
GR   1336.7     10417.

ET                          4.1        9903.      10054.
X1     0.288        20.     9885.      10069.      470.       460.       475.
GR   1338.2      9550.     1337.6      9684.     1336.1      9733.     1336.9      9848.     1336.      9885.
GR   1328.9      9933.     1326.6      9954.     1325.9      9978.     1325.7     10000.     1328.5     10026.
GR   1335.9     10069.     1335.9     10078.     1336.7     10089.     1336.2     10101.     1338.      10213.
GR   1339.6     10443.     1347.3     10459.     1341.      10472.     1341.9     10485.     1339.9     10517.

ET                          4.1        9912.      10094.
X1     0.398        19.     9904.      10119.      600.       540.       581.
GR   1340.2      9739.     1340.7      9804.     1339.3      9843.     1338.9      9904.     1330.2      9949.
GR   1329.4      9979.     1328.8     10000.     1329.7     10061.     1338.1     10098.     1338.1     10105.
GR   1340.6     10119.     1338.4     10126.     1338.6     10168.     1340.5     10175.     1339.9     10190.
GR   1339.7     10352.     1339.2     10456.     1339.5     10478.     1339.8     10533.

ET                          4.1        9904.      10095.
X1     0.482        20.     9937.      10024.      440.       270.       444.
GR   1347.       9903.     1341.4      9904.     1341.1      9937.     1337.1      9953.     1333.4      9962.
GR   1331.2      9988.     1331.3     10000.     1331.3     10008.     1338.      10024.     1340.8     10093.
GR   1340.9     10125.     1341.6     10161.     1340.4     10236.     1341.6     10256.     1340.      10291.
GR   1341.1     10315.     1340.9     10402.     1341.5     10528.     1341.5     10640.     1343.      10910.

ET                          4.1        9870.      10080.
X1     0.575        19.     9869.      10049.      460.       500.       491.
GR   1348.       9777.     1342.8      9778.     1340.2      9869.     1337.1      9896.     1341.1      9944.
GR   1337.8      9977.     1331.7      9990.     1331.5      9997.     1331.5     10000.     1332.      10011.
GR   1338.9     10023.     1343.1     10049.     1342.5     10105.     1343.5     10113.     1342.9     10186.
GR   1341.8     10239.     1342.      10274.     1343.2     10411.     1345.4     10755.

QT        2.      9400.     9400.
ET                          4.1        9875.      10035.
X1     0.697        16.     9847.      10023.      640.       640.       644.
GR   1346.4      9847.     1345.3      9855.     1338.8      9882.     1338.1      9888.     1339.      9900.
GR   1340.4      9912.     1343.4      9919.     1341.4      9921.     1339.9      9950.     1334.9      9967.
GR   1334.6     10000.     1334.      10007.     1341.4     10023.     1343.8     10061.     1345.4     10102.
GR   1346.4     10237.

NC     0.035      0.035     0.035
ET                          4.1        9880.      10040.
X1     0.826        11.     9929.      10050.      680.       660.       681.
GR   1349.5      9815.     1346.4      9893.     1345.5      9929.     1342.7      9969.     1338.8      9974.
GR   1338.8      9988.     1338.8     10000.     1339.2     10009.     1349.5     10050.     1350.1     10066.
GR   1351.      10219.
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ET                                4.1      9870.     10030.
X1    0.945       20.      9856.     10034.      680.      600.      628.
GR   1352.7     9469.     1352.6     9548.     1351.8     9674.     1351.8     9704.     1349.     9769.
GR   1349.8     9819.     1349.5     9843.     1348.6     9856.     1345.5     9866.     1346.8    9929.
GR   1347.7     9956.     1340.4     9978.     1340.8    10000.     1340.8    10008.     1349.5   10034.
GR   1350.1    10046.     1350.1    10100.     1352.8    10215.     1353.4    10254.     1353.    10284.

ET                                4.1      9870.     10030.
X1    1.035       22.      9841.     10022.      440.      460.      475.
GR    1354.      9670.     1350.5     9723.     1352.3     9776.     1352.     9795.     1348.6    9823.
GR   1348.4     9832.     1350.8     9841.     1348.1     9844.     1349.2    9871.     1349.4    9908.
GR   1345.9     9921.     1348.6     9941.     1348.1     9948.     1343.9    9966.     1343.3    9983.
GR   1342.3     9992.     1341.9    10000.     1348.8    10022.     1351.2    10046.     1352.5   10059.
GR   1352.4    10100.     1353.     10153.

NC     0.04       0.04      0.04
ET                                4.1      9890.     10050.
X1    1.121       19.      9868.     10069.      480.      440.      454.
GR   1355.2     9850.     1355.      9868.     1348.4     9897.     1346.1    9910.     1345.9    9931.
GR   1346.4     9955.     1345.1     9966.     1343.6     9994.     1343.6    10000.    1348.1    10015.
GR   1348.8    10036.     1350.6    10048.     1351.1    10059.     1353.6    10069.    1354.1    10082.
GR   1354.2    10121.     1355.     10134.     1355.1    10173.     1355.     10175.

ET                                4.1      9950.     10110.
X1    1.204       16.      9949.     10043.      430.      450.      438.
GR   1355.4     9930.     1355.6     9949.     1348.3     9964.     1348.3    9978.     1344.3    9991.
GR   1344.3     9995.     1344.8    10000.     1348.3    10027.     1352.5    10043.    1353.8    10057.
GR   1353.7    10072.     1353.5    10098.     1354.2    10165.     1356.1    10178.    1355.8    10262.
GR   1356.3    10334.

QT       2.     9100.     9100.
ET                                4.1      9905.     10060.
X1    1.315       17.      9904.     10074.      720.      700.      734.
GR   1359.7     9904.     1352.7     9916.     1350.3     9931.     1348.8    10000.    1351.1    10012.
GR   1351.6    10028.     1353.4    10043.     1353.4    10056.     1356.5    10064.    1359.     10074.
GR   1357.8    10085.     1358.     10091.     1358.     10130.     1352.     10150.    1352.     10170.
GR   1358.     10230.     1360.     10240.

NC    0.035      0.035     0.025
```

PER INTERIM FEMA REVIEW COMMENT, TIE THIS STUDY TO THE PREVIOUS FEMA MODEL. CROSS SECTION 1.420 IN THIS MODEL IS TAKEN AT THE SAME LOCATION AS CROSS SECTION "M" ON THE FIRM MAP REVISED SEPTEMBER 29 1989, PLOTTED AT RIVER MILE 1.445. THIS CROSS SECTION CORRESPONDS TO CROSS SECTION 1.492 IN THE 1980 HEC-2 MODEL THAT WAS USED TO DEVELOP THE SEPTEMBER 29, 1989 REVISED FIRM.

ELEVATIONS COMPUTED BY THIS MODEL ARE COMPARED TO ELEVATIONS COMPUTED FOR THE PREVIOUS FLOOD INSURANCE STUDY (REVISED SEPT. 29,1989) ARE SHOWN IN THE TABLE BELOW:

	10 YEAR	50 YEAR	100 YEAR
PREVIOUS STUDY	1359.3	-	1361.0

K/14PRINT

THIS MODEL	1360.65	1371.17	1361.34
SET BY X5 CARD	1359.3	1360.7	1361.0

100 YEAR FLOOD ELEVATIONS AGREE WITHIN 0.5 FEET. 10 YEAR FLOOD ELEVATIONS DISAGREE DUE TO REVISIONS TO HYDROLOGY SINCE THE PREVIOUS STUDY, PRIMARILY DUE TO INCREASED URBANIZATION OF THE WATERSHED. SINCE THE 100 YEAR BASE FLOOD IS WITHIN ACCEPTABLE AGREEMENT, FLOOD ELEVATIONS AT THE LIMIT OF DETAILED STUDY HAVE BEEN SET BY X5 CARD TO AGREE WITH THE PREVIOUS STUDY. THE 50 YEAR ELEVATIO N, NOT PREVIOUSLY COMPUTED, HAS BEEN INTERPOLATED.

FOLLOWING IS SECTION 1.420 FROM CURRENT TOPO

```
1.420      9.   9895.  10085.    380.    420.    407.
1364.   9860.   1362.   9870.   1360.   9895.   1356.   9910.  1354.9  10000.
1356.  10070.   1360.  10085.   1362.  10100.   1364.  10120.
```

FOLLOWING IS SECTION 1.420 BASED UPON THE PREVIOUS STUDY
THE QT CARD IS BASED ALSO ON THE PREVIOUS STUDY
THE NC VALUES ARE ADJUSTED TO ALLOW USE OF THE X5
WITHOUT BEING OVERRIDDEN BY CRITICAL DEPTH.

```
QT       2.      8400.      8400.
NC    0.02       0.02       0.02
ET                           4.1      9800.     10200.
X1   1.420        25.      9970.     10010.       380.       420.       407.
X5       2.    1361.0    1361.6
GR    1362.      9430.      1360.      9680.      1358.      9745.      1356.      9760.      1356.      9790.
GR    1358.    9790.1      1359.      9810.      1359.      9930.      1358.      9970.      1354.      9980.
GR    1354.   10009.9      1358.     10010.      1360.     10060.      1360.     10195.      1360.     10260.
GR    1360.     10315.      1360.     10330.      1360.     10360.      1360.     10420.      1361.     10460.
GR    1361.     10720.      1360.     10770.      1360.     10775.      1360.     10780.      1364.     10800.
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1C714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .100 CEHV= .300

*SECNO 17.588

17.588	14.09	1283.69	.00	1283.69	1284.02	.33	.00	.00	1278.10
15400.0	3410.6	11671.0	318.3	1017.0	2337.7	133.8	.0	.0	1276.40
.00	3.35	4.99	2.38	.040	.040	.040	.000	1269.60	9777.93
.000750	440.	496.	560.	0	0	0	.00	451.78	10229.71

FLOW DISTRIBUTION FOR SECNO= 17.59 CWSEL= 1283.69

STA=	9778.	9835.	9854.	9873.	9909.	9982.	10193.	10230.
PER Q=	6.7	5.2	4.0	3.9	2.5	75.8	2.1	
AREA=	307.3	177.5	152.8	192.6	187.0	2337.7	133.8	
VEL=	3.3	4.5	4.0	3.1	2.0	5.0	2.4	
DEPTH=	5.4	9.3	8.0	5.3	2.6	11.1	3.6	

*SECNO 17.662

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .50

17.662	12.22	1283.82	.00	.00	1284.71	.89	.52	.17	1276.40
15400.0	3988.7	11364.7	46.6	605.8	1441.9	21.3	24.8	3.4	1281.60
.01	6.58	7.88	2.19	.040	.040	.040	.000	1271.60	9829.44
.003036	380.	391.	400.	2	0	0	.00	319.71	10149.15

FLOW DISTRIBUTION FOR SECNO= 17.66 CWSEL= 1283.82

STA=	9829.	9835.	9844.	9871.	9911.	9941.	10130.	10149.
PER Q=	.0	.9	5.6	9.3	10.1	73.8	.3	
AREA=	3.1	30.8	139.7	223.0	209.2	1441.9	21.3	
VEL=	1.4	4.3	6.1	6.4	7.5	7.9	2.2	
DEPTH=	.6	3.4	5.2	5.6	7.0	7.6	1.1	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

17.783	10.18	1285.58	.00	.00	1287.86	2.28	2.74	.42	1280.50
15400.0	296.5	14381.2	722.3	52.5	1157.6	106.7	48.6	7.0	1281.10
.03	5.65	12.42	6.77	.040	.040	.040	.000	1275.40	9900.35
.006939	540.	639.	500.	3	0	0	.00	201.37	10101.72

FLOW DISTRIBUTION FOR SECNO= 17.78 CWSEL= 1285.58

STA=	9900.	9921.	10064.	10074.	10097.	10102.
PER Q=	1.9	93.4	2.4	2.3	.0	
AREA=	52.5	1157.6	43.8	60.5	2.3	
VEL=	5.7	12.4	8.3	5.9	1.9	
DEPTH=	2.5	8.1	4.4	2.6	.5	

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

17.932	13.08	1290.98	1290.58	.00	1294.60	3.62	6.34	.40	1289.70
15400.0	60.0	15314.7	25.3	22.4	1000.3	10.3	69.9	10.3	1290.20
.04	2.68	15.31	2.46	.040	.040	.040	.000	1277.90	9921.07
.009453	790.	787.	780.	5	11	0	.00	164.24	10085.31

FLOW DISTRIBUTION FOR SECNO= 17.93 CWSEL= 1290.98

STA=	9921.	9956.	10066.	10083.	10085.
PER Q=	.4	99.4	.2	.0	
AREA=	22.4	1000.3	9.9	.4	
VEL=	2.7	15.3	2.5	1.2	
DEPTH=	.6	9.1	.6	.2	

CCHV= .300 CEHV= .500

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.042

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

18.042	12.01	1294.31	.00	.00	1298.14	3.83	3.43	.10	1307.40
15400.0	.0	15400.0	.0	.0	980.7	.0	83.3	12.1	1307.40
.05	.00	15.70	.00	.000	.025	.000	.000	1282.30	9951.61
.004040	620.	581.	550.	4	0	0	.00	96.76	10048.37

FLOW DISTRIBUTION FOR SECNO= 18.04 CWSEL= 1294.31

STA= 9952. 10049.
PER Q= 100.0
AREA= 980.7
VEL= 15.7
DEPTH= 10.1

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	.00	75.00	4.00	1059.00	.81	1280.20	1279.90

*SECNO 18.061

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.43	1299.04	1.15	0.	15400.	1059.	1060.	1293.20	1301.60	0.

18.061	13.34	1296.44	.00	.00	1299.43	2.99	1.29	.00	1308.20
15400.0	.0	15400.0	.0	.0	1109.9	.0	85.7	12.3	1308.20
.06	.00	13.88	.00	.000	.025	.000	.000	1283.10	9951.54
.002757	101.	101.	101.	4	0	0	.00	96.89	10048.43

FLOW DISTRIBUTION FOR SECNO= 18.06 CWSEL= 1296.44

K\14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9952. 10049.
PER Q= 100.0
AREA= 1109.9
VEL= 13.9
DEPTH= 11.5

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.03

18.081	18.44	1299.54	.00	.00	1300.24	.71	.13	.69	1286.60
15400.0	1235.5	12528.7	1635.8	321.6	1737.8	383.5	90.0	12.7	1284.90
.06	3.84	7.21	4.27	.035	.035	.035	.000	1281.10	9876.94
.000672	80.	106.	130.	3	0	0	.00	229.58	10106.51

FLOW DISTRIBUTION FOR SECNO= 18.08 CWSEL= 1299.54

STA= 9877. 9899. 9942. 10045. 10088. 10107.
PER Q= .1 7.9 81.4 10.5 .2
AREA= 14.7 306.9 1737.8 362.8 20.7
VEL= .8 4.0 7.2 4.4 1.2
DEPTH= .7 7.1 16.9 8.4 1.1

CCHV= .100 CEHV= .300
*SECNO 18.174

18.174	18.52	1300.22	.00	.00	1300.52	.30	.24	.04	1288.70
15400.0	1569.9	11409.1	2421.0	475.1	2330.4	1163.1	126.2	17.3	1294.60
.09	3.30	4.90	2.08	.035	.035	.035	.000	1281.70	9856.87
.000364	500.	491.	490.	2	0	0	.00	597.84	10454.71

FLOW DISTRIBUTION FOR SECNO= 18.17 CWSEL= 1300.22

STA= 9857. 9904. 9915. 9919. 10073. 10142. 10182. 10236. 10455.
PER Q= 5.0 3.9 1.3 74.1 4.6 4.8 4.1 2.3
AREA= 288.0 138.3 48.9 2330.4 313.6 260.8 268.3 320.4
VEL= 2.6 4.4 4.1 4.9 2.2 2.8 2.4 1.1
DEPTH= 6.1 12.6 12.2 15.1 4.5 6.5 5.0 1.5

K/L 4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.269

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

18.269	16.37	1300.17	.00	.00	1300.93	.76	.27	.14	1288.40
15400.0	2261.7	12456.3	682.0	445.5	1677.2	198.9	162.4	22.1	1292.40
.11	5.08	7.43	3.43	.035	.035	.035	.000	1283.80	9881.86
.000901	500.	502.	500.	2	0	0	.00	228.73	10110.59

FLOW DISTRIBUTION FOR SECNO= 18.27 CWSEL= 1300.17

STA=	9882.	9928.	9942.	10060.	10071.	10111.
PER Q=	7.5	7.2	80.9	2.3	2.1	
AREA=	278.5	166.9	1677.2	76.7	122.2	
VEL=	4.1	6.7	7.4	4.6	2.7	
DEPTH=	6.0	11.9	14.2	7.0	3.1	

*SECNO 18.362

18.362	15.24	1300.54	.00	.00	1301.51	.97	.51	.06	1290.00
15400.0	1154.3	13225.2	1020.5	240.2	1585.2	239.3	187.2	24.6	1290.60
.13	4.80	8.34	4.26	.035	.035	.035	.000	1285.30	9895.20
.001223	490.	491.	510.	2	0	0	.00	212.97	10108.18

FLOW DISTRIBUTION FOR SECNO= 18.36 CWSEL= 1300.54

STA=	9895.	9905.	9942.	10060.	10108.
PER Q=	.1	7.4	85.9	6.6	
AREA=	9.5	230.7	1585.2	239.3	
VEL=	1.4	4.9	8.3	4.3	
DEPTH=	1.0	6.2	13.4	5.0	

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

18.445	18.09	1305.39	1305.39	.00	1307.48	2.09	.94	.34	1290.00
15400.0	5165.6	3758.3	6476.1	569.9	217.6	715.8	205.8	27.8	1290.00
.14	9.06	17.27	9.05	.035	.035	.035	.000	1287.30	9885.22
.004315	470.	440.	460.	20	11	0	.00	386.47	10271.68

ICI4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 18.44 CWSEL= 1305.39

STA=	9885.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10272.
PER Q=	3.3	18.8	11.5	24.4	30.6	4.3	3.9	3.2	.1	
AREA=	93.8	327.2	149.0	217.6	363.7	87.8	107.0	143.3	14.0	
VEL=	5.4	8.8	11.9	17.3	12.9	7.5	5.7	3.5	.9	
DEPTH=	2.7	5.6	10.6	16.7	10.4	4.4	2.9	1.4	.2	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.38	1308.44	.96	15108.	298.	33.	33.	1294.20	1299.50	458.

18.456	19.61	1307.31	.00	.00	1308.31	1.00	.83	.00	1290.40
15400.0	5168.4	2970.6	7261.0	741.4	237.5	1182.5	208.3	28.3	1290.40
.14	6.97	12.51	6.14	.035	.035	.035	.000	1287.70	9873.21
.002014	60.	60.	60.	3	0	8	.00	443.73	10316.94

FLOW DISTRIBUTION FOR SECNO= 18.46 CWSEL= 1307.31

STA=	9873.	9880.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10310.	10317.
PER Q=	.0	4.6	19.1	9.8	19.3	26.2	4.8	5.4	7.6	3.0	.0	
AREA=	2.4	152.8	415.8	170.4	237.5	417.2	118.4	163.5	300.7	178.1	4.6	
VEL=	1.0	4.6	7.1	8.9	12.5	9.7	6.2	5.1	3.9	2.6	1.4	
DEPTH=	.4	3.8	7.2	12.2	18.3	11.9	5.9	4.4	2.9	1.6	.7	

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.09

18.545	18.98	1308.28	.00	.00	1308.76	.47	.39	.05	1294.10
15400.0	1745.2	11300.0	2354.7	495.0	1857.3	682.4	236.0	32.3	1293.80
.17	3.53	6.08	3.45	.035	.035	.035	.000	1289.30	9881.31
.000460	440.	466.	480.	2	0	0	.00	288.68	10169.98

FLOW DISTRIBUTION FOR SECNO= 18.55 CWSEL= 1308.28

STA=	9881.	9889.	9951.	10058.	10073.	10094.	10108.	10121.	10135.	10170.
PER Q=	.0	11.3	73.4	5.4	4.8	1.9	1.0	1.1	1.0	
AREA=	6.1	488.9	1857.3	179.8	188.7	93.6	60.3	67.7	92.4	
VEL=	.8	3.6	6.1	4.6	3.9	3.2	2.5	2.6	1.7	
DEPTH=	.8	7.9	17.4	12.0	9.0	6.7	4.6	4.8	2.6	

*SECNO 18.575

18.575	19.13	1308.43	.00	.00	1308.83	.41	.07	.01	1291.50
15400.0	3584.2	3152.3	8663.5	833.2	511.1	1731.9	247.2	33.3	1289.70
.18	4.30	6.17	5.00	.035	.035	.035	.000	1289.30	9880.61
.000442	160.	160.	160.	2	0	0	.00	290.32	10170.93

FLOW DISTRIBUTION FOR SECNO= 18.58 CWSEL= 1308.43

STA=	9881.	9951.	9972.	10000.	10018.	10040.	10058.	10073.	10094.	10135.	10171.
PER Q=	11.4	11.8	20.5	13.8	16.2	10.8	5.4	4.8	4.1	1.1	
AREA=	505.0	328.2	511.1	337.1	403.2	293.0	181.9	191.7	227.4	97.5	
VEL=	3.5	5.5	6.2	6.3	6.2	5.7	4.5	3.9	2.8	1.7	
DEPTH=	7.2	15.6	18.3	18.7	18.3	16.3	12.1	9.1	5.5	2.7	

K/L4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3108.06	1308.92	.09	14974.	431.	57.	56.	1295.40	1299.00	288.

18.583	20.10	1309.50	.00	.00	1309.84	.34	1.00	.00	1291.60
15400.0	3685.4	3046.3	8668.3	924.1	538.2	1900.7	250.2	33.6	1289.80
.18	3.99	5.66	4.56	.035	.035	.035	.000	1289.40	9875.91
.000347	40.	40.	40.	2	0	7	.00	301.44	10177.35

FLOW DISTRIBUTION FOR SECNO= 18.58 CWSEL= 1309.50

STA=	9876.	9951.	9972.	10000.	10018.	10040.	10058.	10073.	10094.	10121.	10177.
PER Q=	12.3	11.6	19.8	13.3	15.7	10.5	5.4	5.1	3.4	2.9	
AREA=	575.5	348.5	538.2	354.6	424.5	310.5	196.5	212.0	183.9	218.7	
VEL=	3.3	5.1	5.7	5.8	5.7	5.2	4.2	3.7	2.8	2.0	
DEPTH=	7.7	16.6	19.2	19.7	19.3	17.2	13.1	10.1	6.8	3.9	

*SECNO 18.640

18.640	19.23	1309.43	.00	.00	1310.07	.64	.14	.09	1294.60
15400.0	2345.6	9850.5	3203.9	512.4	1350.9	710.6	271.0	35.5	1293.40
.19	4.58	7.29	4.51	.035	.035	.035	.000	1290.20	9879.37
.000663	300.	301.	310.	2	0	0	.00	255.52	10134.89

FLOW DISTRIBUTION FOR SECNO= 18.64 CWSEL= 1309.43

STA=	9879.	9887.	9920.	9955.	10033.	10111.	10132.	10135.
PER Q=	.0	2.3	12.9	64.0	20.6	.2	.0	
AREA=	3.9	129.6	378.9	1350.9	688.5	21.6	.6	
VEL=	.7	2.7	5.3	7.3	4.6	1.1	.4	
DEPTH=	.5	3.9	10.8	17.3	8.8	1.0	.2	

KCL4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.734

18.734	17.28	1309.68	.00	.00	1310.53	.84	.40	.06	1298.60
15400.0	1314.3	13486.7	599.0	303.8	1747.6	174.8	298.3	38.3	1300.80
.21	4.33	7.72	3.43	.035	.035	.035	.000	1292.40	9883.01
.000985	490.	496.	500.	0	0	0	.00	228.83	10111.84

FLOW DISTRIBUTION FOR SECNO= 18.73 CWSEL= 1309.68

STA=	9883.	9888.	9938.	10062.	10094.	10104.	10112.
PER Q=	.0	8.5	87.6	3.7	.1	.1	
AREA=	2.4	301.3	1747.6	152.9	13.8	8.1	
VEL=	.8	4.4	7.7	3.7	1.6	1.3	
DEPTH=	.5	6.0	14.1	4.8	1.4	1.0	

*SECNO 18.832

18.832	16.99	1310.19	.00	.00	1311.04	.85	.51	.00	1302.80
15400.0	437.5	12951.8	2010.7	137.9	1657.8	397.7	324.5	40.9	1297.10
.23	3.17	7.81	5.06	.035	.035	.035	.000	1293.20	9891.67
.001003	480.	517.	540.	2	0	0	.00	216.17	10107.84

FLOW DISTRIBUTION FOR SECNO= 18.83 CWSEL= 1310.19

STA=	9892.	9929.	10046.	10095.	10108.
PER Q=	2.8	84.1	12.9	.2	
AREA=	137.9	1657.8	381.7	16.0	
VEL=	3.2	7.8	5.2	1.5	
DEPTH=	3.7	14.2	7.8	1.2	

*SECNO 18.925

18.925	16.04	1310.64	.00	.00	1311.60	.97	.53	.03	1297.60
15400.0	1711.9	12782.4	905.7	348.3	1523.8	210.1	348.6	43.3	1300.00
.25	4.92	8.39	4.31	.035	.035	.035	.000	1294.60	9887.57
.001144	480.	491.	500.	2	0	0	.00	200.07	10087.64

FLOW DISTRIBUTION FOR SECNO= 18.92 CWSEL= 1310.64

STA=	9888.	9941.	10048.	10087.
PER Q=	11.1	83.0	5.9	
AREA=	348.3	1523.8	210.1	
VEL=	4.9	8.4	4.3	
DEPTH=	6.5	14.2	5.4	

K/L4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

19.018	13.29	1310.89	.00	.00	1312.69	1.80	.84	.25	1305.10
15400.0	489.5	14883.1	27.4	106.9	1362.9	10.7	368.5	45.4	1308.40
.26	4.58	10.92	2.56	.035	.035	.035	.000	1297.60	9866.12
.002864	460.	491.	520.	2	0	0	.00	172.44	10038.56

FLOW DISTRIBUTION FOR SECNO= 19.02 CWSEL= 1310.89

STA=	9866.	9903.	10030. 10039.
PER Q=	3.2	96.6	.2
AREA=	106.9	1362.9	10.7
VEL=	4.6	10.9	2.6
DEPTH=	2.9	10.7	1.2

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

19.117	13.89	1312.49	1312.49	.00	1316.85	4.37	2.18	.77	1302.90
15400.0	1414.2	11917.8	2068.0	148.6	652.4	198.2	383.4	47.1	1301.50
.27	9.52	18.27	10.43	.035	.035	.035	.000	1298.60	9942.00
.006608	490.	523.	560.	20	8	0	.00	120.09	10062.09

FLOW DISTRIBUTION FOR SECNO= 19.12 CWSEL= 1312.49

STA=	9942.	9973.	10026.	10062.
PER Q=	9.2	77.4	13.4	
AREA=	148.6	652.4	198.2	
VEL=	9.5	18.3	10.4	
DEPTH=	4.8	12.3	5.5	

1CT14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

19.210	16.99	1317.19	.00	.00	1319.01	1.82	1.90	.25	1312.00
15400.0	227.0	14955.2	217.8	57.2	1364.2	55.0	397.4	48.7	1312.00
.28	3.97	10.96	3.96	.035	.035	.035	.000	1300.20	9922.94
.002538	500.	491.	490.	3	0	0	.00	158.26	10081.20

FLOW DISTRIBUTION FOR SECNO= 19.21 CWSEL= 1317.19

STA=	9923.	9945.	10060.	10081.
PER Q=	1.5	97.1	1.4	
AREA=	57.2	1364.2	55.0	
VEL=	4.0	11.0	4.0	
DEPTH=	2.6	11.9	2.6	

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	.00	1324.04	4.12	1.64	1.15	1311.70
14600.0	.0	14600.0	.0	.0	896.1	.0	407.9	49.9	1311.70
.29	.00	16.29	.00	.000	.035	.000	.000	1311.70	9948.00
.008876	390.	386.	390.	20	11	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.28 CWSEL= 1319.92

STA=	9948.	10057.
PER Q=	100.0	
AREA=	896.1	
VEL=	16.3	
DEPTH=	8.2	

1CT14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.96	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	.00	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	409.9	50.1	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.30 CWSEL= 1322.06

STA= 9948. 10057.
PER Q= 100.0
AREA= 1128.7
VEL= 12.9
DEPTH= 10.4

*SECNO 19.313

1K/4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

19.313	11.61	1323.31	.00	.00	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.9	.0	412.0	50.3	1325.50
.29	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.34
.004073	75.	74.	75.	4	0	0	.00	159.66	10104.00

FLOW DISTRIBUTION FOR SECNO= 19.31 CWSEL= 1323.31

STA= 9944. 10112.
PER Q= 100.0
AREA= 1330.9
VEL= 11.0
DEPTH= 8.3

CCHV= .100 CEHV= .300
*SECNO 19.418

19.418	12.59	1325.59	.00	.00	1327.43	1.83	2.25	.00	1328.00
14600.0	.0	14600.0	.0	.0	1343.4	.0	429.0	52.4	1326.10
.31	.00	10.87	.00	.000	.035	.000	.000	1313.00	9955.11
.004041	570.	554.	530.	2	0	0	.00	162.69	10117.80

FLOW DISTRIBUTION FOR SECNO= 19.42 CWSEL= 1325.59

STA= 9955. 10120.
PER Q= 100.0
AREA= 1343.4
VEL= 10.9
DEPTH= 8.3

*SECNO 19.560

19.560	12.61	1328.21	.00	.00	1330.15	1.94	2.69	.03	1329.70
14600.0	.0	14600.0	.0	.0	1307.1	.0	451.2	54.8	1330.60
.32	.00	11.17	.00	.000	.035	.000	.000	1315.60	9931.38
.003389	730.	729.	720.	2	0	0	.00	129.60	10060.98

HY14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.56 CWSEL= 1328.21

STA= 9931. 10065.
PER Q= 100.0
AREA= 1307.1
VEL= 11.2
DEPTH= 10.1

CCHV= .300 CEHV= .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.55

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1332.00 ELREA= 1332.00

19.625	12.29	1329.89	.00	.00	1330.82	.93	.37	.30	1317.60
5700.0	.0	5700.0	.0	.0	737.6	.0	459.7	55.6	1317.60
.34	.00	7.73	.00	.000	.015	.000	.000	1317.60	9965.00
.000214	580.	364.	70.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.63 CWSEL= 1329.89

STA= 9965. 10025.
PER Q= 100.0
AREA= 737.6
VEL= 7.7
DEPTH= 12.3

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	60.00	2.00	564.00	.00	1318.60	1317.60

*SECNO 19.691

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.37	1331.05	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	12.93	1331.53	.00	.00	1332.37	.84	1.55	.00	1318.60
5700.0	.0	5700.0	.0	.0	775.9	.0	465.8	56.1	1318.60
.35	.00	7.35	.00	.000	.015	.000	.000	1318.60	9965.00
.000181	330.	350.	430.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.69 CWSEL= 1331.53

STA=	9965. 10025.
PER Q=	100.0
AREA=	775.9
VEL=	7.3
DEPTH=	12.9

*SECNO 19.742

19.742	12.89	1331.99	.00	.00	1332.51	.52	.05	.10	1331.60
5700.0	.8	5699.0	.2	3.4	985.5	.8	471.3	56.6	1331.00
.36	.23	5.78	.30	.035	.015	.035	.000	1319.10	9935.22
.000165	80.	269.	470.	2	0	0	.00	108.35	10043.57

FLOW DISTRIBUTION FOR SECNO= 19.74 CWSEL= 1331.99

STA=	9935.	9948.	10042.	10044.
PER Q=	.0	100.0	.0	
AREA=	3.4	985.5	.8	
VEL=	.2	5.8	.3	
DEPTH=	.3	10.5	.5	

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

19.847	13.34	1332.14	.00	.00	1332.73	.59	.20	.02	1336.30
5700.0	.0	5700.0	.0	.0	925.1	.0	483.4	58.0	1335.80
.39	.00	6.16	.00	.000	.035	.000	.000	1318.80	9940.63
.001296	570.	554.	520.	2	0	0	.00	109.85	10050.49

FLOW DISTRIBUTION FOR SECNO= 19.85 CWSEL= 1332.14

STA= 9941. 10062.
PER Q= 100.0
AREA= 925.1
VEL= 6.2
DEPTH= 8.4

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .39

19.960	7.77	1332.37	1332.22	.00	1334.93	2.55	1.61	.59	1330.00
5700.0	38.9	5629.3	31.8	9.0	436.7	7.5	492.9	59.3	1330.00
.40	4.31	12.89	4.25	.035	.035	.035	.000	1324.60	9950.40
.008699	640.	597.	560.	4	11	0	.00	86.88	10037.28

FLOW DISTRIBUTION FOR SECNO= 19.96 CWSEL= 1332.37

STA= 9950. 9958. 10031. 10037.
PER Q= .7 98.8 .6
AREA= 9.0 436.7 7.5
VEL= 4.3 12.9 4.3
DEPTH= 1.2 6.0 1.2

1671 4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 19.974

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1336.00 ELREA= 1336.00

19.974	9.51	1333.31	.00	.00	1335.46	2.14	.41	.12	1323.80
5700.0	.0	5700.0	.0	.0	485.1	.0	493.7	59.4	1323.80
.40	.00	11.75	.00	.000	.035	.000	.000	1323.80	9969.00
.003800	105.	74.	65.	3	0	0	.00	51.00	10020.00

FLOW DISTRIBUTION FOR SECNO= 19.97 CWSEL= 1333.31

STA= 9969. 10020.
PER Q= 100.0
AREA= 485.1
VEL= 11.8
DEPTH= 9.5

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	51.00	3.00	480.00	.00	1324.10	1323.80

*SECNO 19.986

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1336.73	1336.01	.92	0.	5700.	480.	480.	1334.10	1337.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.45	1335.25	.00	.00	1336.73	1.48	1.27	.00	1323.80
5700.0	.0	5700.0	.0	.0	584.0	.0	494.4	59.5	1323.80
.40	.00	9.76	.00	.000	.035	.000	.000	1323.80	9969.00
.002047	61.	61.	61.	3	0	0	.00	51.00	10020.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.99 CWSEL= 1335.25

STA= 9969. 10020.
PER Q= 100.0
AREA= 584.0
VEL= 9.8
DEPTH= 11.5

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 1339.40

20.049	11.25	1338.35	1338.35	.00	1341.90	3.54	1.32	1.03	1343.40
5700.0	.0	5700.0	.0	.0	377.3	.0	498.1	59.9	1339.40
.41	.00	15.11	.00	.000	.035	.000	.000	1327.10	9971.56
.010738	305.	333.	345.	20	8	0	.00	53.63	10025.19

FLOW DISTRIBUTION FOR SECNO= 20.05 CWSEL= 1338.35

STA= 9972. 10027.
PER Q= 100.0
AREA= 377.3
VEL= 15.1
DEPTH= 7.0

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.58	1343.48	.00	.00	1345.07	1.58	2.97	.20	1344.60
5700.0	.0	5588.6	111.4	.0	548.7	32.7	503.6	60.7	1340.80
.42	.00	10.19	3.41	.000	.035	.040	.000	1330.90	9960.58
.003744	490.	502.	500.	2	0	0	.00	83.94	10044.51

FLOW DISTRIBUTION FOR SECNO= 20.14 CWSEL= 1343.48

STA=	9961.	10025.	10040.	10045.
PER Q=	98.0	1.9	.1	
AREA=	548.7	29.8	2.9	
VEL=	10.2	3.6	1.6	
DEPTH=	8.5	2.0	.6	

*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.19	1345.49	.00	.00	1347.06	1.57	1.99	.00	1347.20
5700.0	.0	5546.3	153.7	.0	545.0	40.2	510.6	61.7	1342.80
.44	.00	10.18	3.83	.000	.035	.040	.000	1333.30	9961.30
.003942	470.	517.	560.	3	0	0	.00	88.68	10049.98

FLOW DISTRIBUTION FOR SECNO= 20.24 CWSEL= 1345.49

STA=	9961.	10029.	10041.	10050.
PER Q=	97.3	2.2	.5	
AREA=	545.0	29.9	10.3	
VEL=	10.2	4.3	2.5	
DEPTH=	8.1	2.5	1.1	

*SECNO 20.335

20.335	10.14	1347.44	.00	.00	1348.61	1.17	1.51	.04	1344.00
5700.0	31.7	5639.2	29.1	12.8	646.3	11.8	517.7	62.7	1344.00
.46	2.48	8.72	2.46	.040	.035	.040	.000	1337.30	9950.57
.002469	510.	491.	470.	2	0	0	.00	88.31	10038.88

K&L4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 20.33 CWSEL= 1347.44

STA=	9951.	9958.	10032.	10039.
PER Q=	.6	98.9	.5	
AREA=	12.8	646.3	11.8	
VEL=	2.5	8.7	2.5	
DEPTH=	1.7	8.7	1.7	

CCHV= .300 CEHV= .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1351.50 ELREA= 1351.50

20.347	10.04	1347.24	.00	.00	1349.16	1.92	.18	.38	1337.20
5700.0	.0	5700.0	.0	.0	512.0	.0	518.5	62.8	1337.20
.46	.00	11.13	.00	.000	.035	.000	.000	1337.20	9970.00
.003174	1.	63.	150.	2	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.35 CWSEL= 1347.24

STA=	9970.	10021.
PER Q=	100.0	
AREA=	512.0	
VEL=	11.1	
DEPTH=	10.0	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1347.00 BRIDGE VELOCITY= 12.43 CALCULATED CHANNEL AREA= 446.

IC74PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1349.64	.73	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.77	1347.97	.00	.00	1349.64	1.67	.48	.00	1337.20
5700.0	.0	5700.0	.0	.0	549.1	.0	519.7	63.0	1337.20
.46	.00	10.38	.00	.000	.035	.000	.000	1337.20	9970.00
.002515	100.	100.	100.	0	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.37 CWSEL= 1347.97

STA= 9970. 10021.
PER Q= 100.0
AREA= 549.1
VEL= 10.4
DEPTH= 10.8

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

20.423	11.57	1349.57	.00	.00	1350.51	.94	.65	.22	1345.00
5700.0	101.7	5266.2	332.1	37.2	655.8	86.9	524.3	63.5	1344.30
.47	2.73	8.03	3.82	.040	.035	.040	.000	1338.00	9958.69
.001888	415.	301.	205.	3	0	0	.00	112.82	10071.51

FLOW DISTRIBUTION FOR SECNO= 20.42 CWSEL= 1349.57

STA= 9959. 9975. 10045. 10055. 10072.
PER Q= 1.8 92.4 4.0 1.8
AREA= 37.2 655.8 49.2 37.7
VEL= 2.7 8.0 4.7 2.7
DEPTH= 2.3 9.4 4.9 2.3

K/L4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.83	1349.13	.00	.00	1351.13	2.01	.09	.53	1339.30
5700.0	.0	5700.0	.0	.0	501.4	.0	524.8	63.6	1339.30
.47	.00	11.37	.00	.000	.035	.000	.000	1339.30	9985.00
.003403	1.	37.	65.	2	0	0	.00	51.00	10036.00

FLOW DISTRIBUTION FOR SECNO= 20.43 CWSEL= 1349.13

STA= 9985. 10036.
PER Q= 100.0
AREA= 501.4
VEL= 11.4
DEPTH= 9.8

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.59 BRIDGE VELOCITY= 12.79 CALCULATED CHANNEL AREA= 446.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.50	1351.64	.80	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.62	1349.92	.00	.00	1351.64	1.72	.51	.00	1339.30
5700.0	.0	5700.0	.0	.0	541.8	.0	525.7	63.7	1339.30
.47	.00	10.52	.00	.000	.035	.000	.000	1339.30	9985.00
.002628	70.	70.	70.	0	0	0	.00	51.00	10036.00

K/14PRINT

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=     20.44          CWSEL=   1349.92

STA=    9985.   10036.
  PER Q=    100.0
   AREA=    541.8
    VEL=     10.5
  DEPTH=     10.6

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

    20.529      9.25   1352.25       .00       .00   1352.95       .70      1.00       .31   1350.20
    5700.0     165.5    5398.1     136.3      70.2     784.4      61.5     533.2      64.9   1350.40
       .49      2.36      6.88      2.22      .040      .035      .040      .000   1343.00   9905.35
   .001924      545.      449.      375.         3         0         0       .00    189.83  10095.18


FLOW DISTRIBUTION FOR SECNO=     20.53          CWSEL=   1352.25

STA=    9905.     9910.     9947.    10055.    10090.    10095.
  PER Q=       .1       2.8      94.7       2.3        .1
   AREA=      3.6      66.6     784.4      57.8       3.8
    VEL=      1.3       2.4       6.9       2.3       1.3
  DEPTH=       .8       1.8       7.3       1.7        .7

CCHV=     .100 CEHV=     .300
*SECNO 20.628
    20.628     10.01   1353.31       .00       .00   1353.74       .43       .76       .03   1357.10
    5700.0        .0    5700.0        .0        .0    1089.4        .0     545.3      67.0   1356.30
       .52       .00      5.23       .00      .000      .035      .000      .000   1343.30   9917.80
   .001125      530.      523.      520.         2         0         0       .00    150.61  10068.41


FLOW DISTRIBUTION FOR SECNO=     20.63          CWSEL=   1353.31

STA=    9918.   10076.
  PER Q=    100.0
   AREA=   1089.4
    VEL=      5.2
  DEPTH=      7.2
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14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

20.725	8.84	1356.04	1356.04	.00	1359.09	3.06	1.32	.79	1360.40
5700.0	.0	5700.0	.0	.0	406.2	.0	554.0	68.2	1361.00
.53	.00	14.03	.00	.000	.035	.000	.000	1347.20	9959.29
.010764	510.	512.	520.	20	11	0	.00	67.22	10026.51

FLOW DISTRIBUTION FOR SECNO= 20.73 CWSEL= 1356.04

STA= 9959. 10036.
PER Q= 100.0
AREA= 406.2
VEL= 14.0
DEPTH= 6.0

CCHV= .300 CEHV= .500
*SECNO 20.737

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1363.00 ELREA= 1363.00

20.737	7.27	1358.17	1358.17	.00	1361.84	3.67	.80	.31	1350.90
5700.0	.0	5700.0	.0	.0	370.6	.0	554.8	68.4	1350.90
.53	.00	15.38	.00	.000	.035	.000	.000	1350.90	9968.00
.009320	80.	80.	80.	20	15	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.74 CWSEL= 1358.17

STA= 9968. 10019.
PER Q= 100.0
AREA= 370.6
VEL= 15.4
DEPTH= 7.3

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1356.93 , NOT 1358.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1351.00	1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.59

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	.00	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	555.5	68.4	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.0036B6	71.	71.	71.	0	0	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.75 CWSEL= 1360.60

STA= 9968. 10019.
PER Q= 100.0
AREA= 489.5
VEL= 11.6
DEPTH= 9.6

*SECNO 20.819

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	.00	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.6	.0	559.4	69.0	1356.50
.54	.00	12.46	.00	.000	.035	.000	.000	1356.50	9965.00
.008133	375.	365.	345.	3	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.82 CWSEL= 1362.37

STA= 9965. 10043.
PER Q= 100.0
AREA= 457.6
VEL= 12.5
DEPTH= 5.9

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

HY7-4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
20.841	6.98	1364.38	.00	.00	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	560.7	69.2	1357.40
.54	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.84 CWSEL= 1364.38

STA= 9965. 10043.
PER Q= 100.0
AREA= 544.7
VEL= 10.5
DEPTH= 7.0

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.68	1365.98	.00	.00	1366.67	.69	.28	.30	1365.30
5700.0	86.2	5613.8	.0	77.9	834.8	.0	562.4	69.6	1367.60
.55	1.11	6.72	.00	.040	.035	.000	.000	1356.30	9800.89
.001946	90.	100.	110.	2	0	0	.00	261.14	10062.04

FLOW DISTRIBUTION FOR SECNO= 20.86 CWSEL= 1365.98

STA= 9801. 9846. 9942. 10066.
PER Q= .4 1.1 98.5
AREA= 21.8 56.1 834.8
VEL= 1.0 1.1 6.7
DEPTH= .5 .6 7.0

CCHV= .100 CEHV= .300
*SECNO 20.942

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

20.942	7.69	1367.29	.00	.00	1367.72	.43	1.02	.03	1368.60
5700.0	.0	3724.4	1975.6	.0	673.2	417.4	572.7	72.7	1366.50
.57	.02	5.53	4.73	.040	.035	.035	.000	1359.60	9629.81
.002779	530.	433.	490.	2	0	0	.00	313.22	10168.29

FLOW DISTRIBUTION FOR SECNO= 20.94 CWSEL= 1367.29

STA=	9630.	10024.	10027.	10053.	10070.	10114.	10153.	10168.
PER Q=	65.3	.3	5.3	2.5	6.4	17.0	3.3	
AREA=	673.2	5.1	69.9	37.2	96.3	165.3	43.5	
VEL=	5.5	2.9	4.3	3.8	3.8	5.9	4.3	
DEPTH=	4.0	1.7	2.7	2.2	2.2	4.2	2.8	

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.036	8.45	1371.95	1371.95	.00	1373.07	1.12	1.76	.21	1370.70
5700.0	367.1	5202.8	130.1	186.3	586.7	55.7	583.6	77.4	1370.40
.59	1.97	8.87	2.34	.040	.035	.040	.000	1363.50	9568.93
.004734	490.	496.	490.	20	12	0	.00	520.10	10089.02

FLOW DISTRIBUTION FOR SECNO= 21.04 CWSEL= 1371.95

STA=	9569.	9665.	9728.	9758.	9867.	9912.	10020.	10041.	10075.	10089.
PER Q=	.7	.5	.1	2.7	2.5	91.3	1.2	.9	.2	
AREA=	31.1	21.8	5.9	75.9	51.6	586.7	24.1	25.4	6.3	
VEL=	1.2	1.3	.9	2.0	2.8	8.9	2.8	2.1	1.5	
DEPTH=	.3	.3	.2	.7	1.1	5.4	1.1	.7	.4	

*SECNO 21.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1374.00 ELREA= 1375.00

21.127	8.05	1374.75	1374.75	.00	1375.74	1.00	2.13	.01	1374.20
5700.0	1077.1	4622.9	.0	394.1	525.4	.0	592.7	82.0	1375.00
.61	2.73	8.80	.00	.040	.035	.000	.000	1366.70	9631.62
.004360	400.	480.	500.	2	10	0	.00	434.39	10066.01

FLOW DISTRIBUTION FOR SECNO= 21.13 CWSEL= 1374.75

STA=	9632.	9634.	9666.	9759.	9860.	9913.	9974.	10067.
PER Q=	.0	1.7	5.8	6.7	2.9	1.8	81.1	
AREA=	1.4	36.7	115.9	130.9	60.7	48.6	525.4	
VEL=	1.6	2.7	2.8	2.9	2.7	2.1	8.8	
DEPTH=	.6	1.1	1.2	1.3	1.1	.8	5.7	

*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.230	8.36	1380.36	1380.36	.00	1381.67	1.30	2.99	.09	1379.30
5700.0	508.8	4046.9	1144.3	153.5	391.9	191.5	603.1	86.7	1380.60
.62	3.32	10.33	5.98	.040	.035	.040	.000	1372.00	9818.28
.007215	560.	544.	500.	20	8	0	.00	304.81	10126.36

FLOW DISTRIBUTION FOR SECNO= 21.23 CWSEL= 1380.36

STA=	9818.	9879.	9930.	9967.	10048.	10083.	10102.	10117.	10126.
PER Q=	3.2	3.0	2.7	71.0	6.7	6.3	4.7	2.5	
AREA=	57.4	52.7	43.4	391.9	69.9	55.4	42.2	24.0	
VEL=	3.2	3.3	3.5	10.3	5.4	6.4	6.3	5.9	
DEPTH=	.9	1.0	1.2	5.0	2.0	2.9	2.8	2.6	

*SECNO 21.363

K/T 4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3280 CROSS SECTION 21.36 EXTENDED .36 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.07

21.363	9.27	1383.37	.00	.00	1383.90	.53	2.16	.08	1384.40
5700.0	98.2	5566.2	35.7	50.6	939.1	46.3	617.4	92.2	1382.10
.66	1.94	5.93	.77	.040	.035	.040	.000	1374.10	9556.04
.0016B6	740.	702.	700.	2	0	0	.00	366.91	10337.00

FLOW DISTRIBUTION FOR SECNO= 21.36 CWSEL= 1383.37

STA=	9556.	9923.	10088.	10337.
PER Q=	1.7	97.7	.6	
AREA=	50.6	939.1	46.3	
VEL=	1.9	5.9	.8	
DEPTH=	.1	6.3	.2	

*SECNO 21.4B4

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.4B4	8.03	1386.53	1386.53	.00	1387.44	.92	1.88	.11	1386.90
5700.0	2045.4	3648.0	6.6	511.1	400.0	4.0	631.7	98.5	1386.50
.68	4.00	9.12	1.63	.040	.035	.040	.000	1378.50	9497.84
.006378	650.	639.	520.	20	12	0	.00	514.70	10076.82

FLOW DISTRIBUTION FOR SECNO= 21.48 CWSEL= 1386.53

STA=	9498.	9614.	9647.	9678.	9805.	9837.	9867.	9892.	9920.	10026.	10077.
PER Q=	3.6	3.1	3.3	5.0	6.8	6.6	5.3	2.1	64.0	.1	
AREA=	82.4	47.2	47.4	95.5	74.5	71.4	58.2	34.5	400.0	4.0	
VEL=	2.5	3.8	3.9	3.0	5.2	5.3	5.2	3.5	9.1	1.6	
DEPTH=	.7	1.4	1.5	.8	2.3	2.4	2.3	1.2	4.5	.1	

ICI4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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*SECNO 21.576

3265 DIVIDED FLOW

3280 CROSS SECTION     21.58 EXTENDED       .54 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.576       7.14   1389.24   1389.24       .00   1390.02       .78      2.51       .01   1390.00
    5700.0      720.9    4008.4     970.7      336.1     487.8     285.9     641.4     104.4   1388.30
       .70       2.15       8.22       3.39       .040       .035       .040       .000   1382.10   9388.00
   .005020       320.       486.       480.          2         12          0        .00    868.38  10340.54


FLOW DISTRIBUTION FOR SECNO=     21.58          CWSEL=   1389.24

STA=    9388.     9500.     9643.     9821.     9929.    10087.    10140.    10199.    10281.    10341.
  PER Q=       3.6       3.0       3.3       2.7      70.3       6.8       6.0       3.7       .5
    AREA=      89.6      81.4      95.4      69.6     487.8      97.3      94.6      78.7      15.4
     VEL=       2.3       2.1       2.0       2.2       8.2       4.0       3.6       2.7       1.9
   DEPTH=        .8        .6        .5        .6       4.6       1.8       1.6       1.0        .3

*SECNO 21.669

3265 DIVIDED FLOW

3280 CROSS SECTION     21.67 EXTENDED       .18 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.669       9.38   1393.38   1393.38       .00   1393.98       .60      2.28       .02   1393.80
    5500.0      905.3    2788.4    1806.3      390.6     338.0     558.6     654.3     114.0   1392.00
       .72       2.32       8.25       3.23       .040       .035       .040       .000   1384.00   9392.00
   .004519       440.       491.       470.         20         16          0        .00    977.37  10414.00


FLOW DISTRIBUTION FOR SECNO=     21.67          CWSEL=   1393.38
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1471PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9392.	9515.	9663.	9893.	9949.	9959.	10031.	10074.	10124.	10182.	10245.	10303.	10361.
PER Q=	3.0	4.9	3.2	5.1	.2	50.7	5.1	4.6	5.6	5.2	4.2	4.5	
AREA=	80.3	122.7	95.6	85.0	6.8	338.0	76.4	76.3	91.4	89.8	76.9	79.8	
VEL=	2.1	2.2	1.8	3.3	1.9	8.3	3.7	3.3	3.4	3.2	3.0	3.1	
DEPTH=	.7	.8	.4	1.5	.7	5.3	1.8	1.5	1.6	1.4	1.3	1.4	

STA=	10361.	10401.	10414.
PER Q=	3.1	.6	
AREA=	54.9	13.1	
VEL=	3.1	2.5	
DEPTH=	1.4	1.0	

*SECNO 21.742

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.742	8.78	1395.18	1395.18	.00	1396.38	1.19	1.92	.18	1394.70
5500.0	29.1	5238.8	232.0	28.7	583.5	122.4	663.5	121.0	1394.20
.74	1.02	8.98	1.90	.040	.035	.040	.000	1386.40	9744.71
.005365	430.	385.	390.	2	8	0	.00	525.85	10353.48

FLOW DISTRIBUTION FOR SECNO= 21.74 CWSEL= 1395.18

STA=	9745.	9975.	10091.	10240.	10353.
PER Q=	.5	95.3	3.1	1.1	
AREA=	28.7	583.5	80.6	41.8	
VEL=	1.0	9.0	2.1	1.5	
DEPTH=	.1	5.0	.5	.4	

*SECNO 21.840

21.840	6.94	1398.04	.00	.00	1398.83	.80	2.42	.04	1396.20
5500.0	945.8	4157.0	397.3	210.1	524.6	174.1	672.7	126.0	1397.00
.76	4.50	7.92	2.28	.040	.035	.040	.000	1391.10	9857.22
.004314	430.	517.	430.	2	0	0	.00	437.88	10295.09

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 21.84 CWSEL= 1398.04

STA=	9857.	9860.	9882.	9913.	9931.	9946.	10054.	10097.	10145.	10186.	10227.	10273.	10295.
PER Q=	.0	2.2	7.6	4.7	2.6	75.6	2.9	2.7	.6	.4	.6	.1	
AREA=	1.0	36.1	86.5	52.1	34.4	524.6	55.6	54.8	20.2	16.1	22.6	4.9	
VEL=	1.2	3.4	4.8	5.0	4.2	7.9	2.9	2.7	1.5	1.3	1.5	.9	
DEPTH=	.4	1.6	2.8	2.9	2.3	4.9	1.3	1.1	.5	.4	.5	.2	

*SECNO 21.895
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.895	7.77	1399.67	1399.67	.00	1400.47	.80	1.34	.00	1398.00
5500.0	1555.3	2864.4	1080.2	327.5	311.9	397.8	679.0	129.1	1397.70
.77	4.75	9.18	2.72	.040	.035	.040	.000	1391.90	9834.78
.004943	330.	290.	220.	1	8	0	.00	596.22	10431.00

FLOW DISTRIBUTION FOR SECNO= 21.90 CWSEL= 1399.67

STA=	9835.	9885.	9919.	9939.	9975.	10031.	10113.	10187.	10251.	10292.	10364.	10431.
PER Q=	9.5	9.9	4.3	4.6	52.1	4.2	4.1	4.1	3.1	3.0	1.2	
AREA=	112.3	100.9	49.3	64.9	311.9	84.3	80.6	76.1	54.0	65.9	36.8	
VEL=	4.7	5.4	4.8	3.9	9.2	2.7	2.8	3.0	3.1	2.5	1.8	
DEPTH=	2.2	3.0	2.5	1.8	5.6	1.0	1.1	1.2	1.3	.9	.5	

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.01

21.933	4.06	1400.86	.00	.00	1400.99	.13	.46	.07	1398.00
5500.0	1740.2	3230.1	529.7	808.7	951.6	269.8	686.4	132.8	1398.00
.79	2.15	3.39	1.96	.040	.035	.040	.000	1396.80	9314.75
.001221	210.	210.	210.	2	0	0	.00	970.39	10285.14

FLOW DISTRIBUTION FOR SECNO= 21.93 CWSEL= 1400.86

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9315.	9440.	9590.	9680.	9725.	9780.	9840.	9865.	10140.	10285.
PER Q=	.4	2.0	6.0	7.2	8.8	5.1	2.1	58.7	9.6	
AREA=	35.1	106.5	167.4	142.2	173.8	129.6	54.0	951.6	269.8	
VEL=	.6	1.0	2.0	2.8	2.8	2.2	2.2	3.4	2.0	
DEPTH=	.3	.7	1.9	3.2	3.2	2.2	2.2	3.5	1.9	

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.953	7.06	1401.06	1401.06	.00	1402.01	.94	.20	.24	1400.20
5500.0	2374.6	2981.8	143.6	470.2	313.0	32.2	688.8	134.1	1398.30
.79	5.05	9.53	4.45	.045	.045	.045	.000	1394.00	9424.44
.009459	75.	74.	75.	20	14	0	.00	459.91	10052.98

FLOW DISTRIBUTION FOR SECNO= 21.95 CWSEL= 1401.06

STA=	9424.	9678.	9699.	9714.	9725.	9735.	9759.	9768.	9782.	9810.	9965.	9969.	10029.
PER Q=	4.1	3.5	4.1	5.2	4.3	4.5	3.3	5.0	5.9	3.2	.3	54.2	
AREA=	94.3	39.1	37.7	38.5	33.6	48.3	27.1	41.5	60.5	45.2	4.4	313.0	
VEL=	2.4	4.9	5.9	7.4	7.1	5.1	6.6	6.6	5.4	3.8	3.4	9.5	
DEPTH=	.4	1.9	2.5	3.5	3.4	2.0	3.0	3.0	2.2	.3	1.1	5.2	

STA=	10029.	10053.
PER Q=	2.6	
AREA=	32.2	
VEL=	4.5	
DEPTH=	1.3	

*SECNO 22.065

3265 DIVIDED FLOW

K/L/T 4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.94

22.065	8.28	1404.08	.00	.00	1404.25	.17	2.17	.08	1404.10
5500.0	4154.8	1273.9	71.3	1389.6	294.2	31.6	702.6	140.5	1402.00
.83	2.99	4.33	2.26	.045	.045	.045	.000	1395.80	9242.08
.002509	430.	591.	630.	4	0	0	.00	777.84	10049.66

FLOW DISTRIBUTION FOR SECNO= 22.07 CWSEL= 1404.08

STA=	9242.	9500.	9594.	9645.	9657.	9680.	9700.	9731.	9785.	9816.	9869.	9890.	9961.
PER Q=	24.1	5.7	7.6	3.2	5.9	5.3	3.8	4.5	6.5	4.9	3.7	.4	
AREA=	500.1	143.7	124.0	44.8	83.5	73.6	69.7	80.3	99.4	92.7	60.5	17.3	
VEL=	2.7	2.2	3.4	4.0	3.9	3.9	3.0	3.1	3.6	2.9	3.3	1.2	
DEPTH=	1.9	1.5	2.4	3.7	3.6	3.7	2.2	1.5	3.2	1.7	2.9	.2	

STA=	9961.	10028.	10050.
PER Q=	23.2	1.3	
AREA=	294.2	31.6	
VEL=	4.3	2.3	
DEPTH=	4.4	1.5	

*SECNO 22.165

3265 DIVIDED FLOW

22.165	10.25	1405.25	.00	.00	1405.46	.21	1.20	.01	1400.90
5500.0	4034.5	1433.3	32.3	1386.7	266.1	24.2	723.2	150.3	1403.70
.87	2.91	5.39	1.33	.045	.045	.045	.000	1395.00	9137.48
.002042	530.	528.	530.	3	0	0	.00	828.27	10060.52

FLOW DISTRIBUTION FOR SECNO= 22.17 CWSEL= 1405.25

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9137.	9204.	9213.	9222.	9232.	9256.	9308.	9425.	9595.	9637.	9645.	9657.	9669.
PER Q=	6.3	3.5	4.4	3.9	4.4	3.3	3.9	3.3	4.7	3.6	4.9	3.2	
AREA=	119.1	44.6	51.3	50.0	75.7	85.9	131.5	109.1	86.3	43.2	61.2	47.4	
VEL=	2.9	4.3	4.8	4.3	3.2	2.1	1.6	1.6	3.0	4.6	4.4	3.7	
DEPTH=	1.8	5.0	5.7	5.0	3.2	1.7	1.1	.6	2.1	5.4	5.1	4.0	

STA=	9669.	9701.	9834.	9862.	9946.	9983.	10018.	10061.
PER Q=	3.2	4.7	5.0	4.2	6.9	26.1	.6	
AREA=	67.7	111.6	86.4	98.9	116.8	266.1	24.2	
VEL=	2.6	2.3	3.2	2.4	3.3	5.4	1.3	
DEPTH=	2.1	.8	3.1	1.2	3.2	7.6	.6	

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

22.273	7.26	1406.66	.00	.00	1407.38	.71	1.77	.15	1404.10
5500.0	1973.6	3526.4	.0	437.6	454.3	.0	737.9	157.2	1406.90
.90	4.51	7.76	.00	.045	.045	.000	.000	1399.40	9320.96
.006928	470.	570.	580.	2	0	0	.00	419.21	10027.44

FLOW DISTRIBUTION FOR SECNO= 22.27 CWSEL= 1406.66

STA=	9321.	9344.	9359.	9574.	9598.	9754.	9774.	9915.	9933.	10028.
PER Q=	4.7	5.4	3.4	4.9	3.1	6.8	3.1	4.5	64.1	
AREA=	48.7	48.9	64.5	55.6	64.2	62.5	46.1	47.1	454.3	
VEL=	5.3	6.0	2.9	4.8	2.7	6.0	3.7	5.2	7.8	
DEPTH=	2.1	3.3	.3	2.3	.4	3.1	.3	2.6	4.8	

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

22.410	10.22	1414.22	1414.22	.00	1415.98	1.76	5.65	.31	1410.70
5500.0	768.3	4585.8	145.9	157.3	400.5	38.0	750.4	162.4	1411.30
.92	4.89	11.45	3.83	.045	.045	.045	.000	1404.00	9854.46
.008756	750.	723.	630.	3	11	0	.00	193.61	10066.88

FLOW DISTRIBUTION FOR SECNO= 22.41 CWSEL= 1414.22

STA=	9854.	9903.	9954.	9967.	9973.	10027.	10067.
PER Q=	3.5	3.7	4.4	2.4	83.4	2.7	
AREA=	55.7	43.9	38.0	19.6	400.5	38.0	
VEL=	3.5	4.6	6.3	6.8	11.5	3.8	
DEPTH=	1.1	.9	2.9	3.3	7.4	1.0	

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.56

22.483	10.96	1416.46	.00	.00	1416.58	.12	.44	.16	1411.10
5500.0	301.1	4551.8	647.1	194.8	1523.7	375.4	762.3	164.7	1411.20
.95	1.55	2.99	1.72	.045	.045	.045	.000	1405.50	9874.91
.000421	380.	385.	390.	3	0	0	.00	325.09	10199.99

FLOW DISTRIBUTION FOR SECNO= 22.48 CWSEL= 1416.46

STA=	9875.	9891.	9915.	9941.	10105.	10120.	10138.	10156.	10175.	10191.	10200.
PER Q=	.2	1.6	3.7	82.8	2.4	2.2	2.1	2.6	2.1	.3	
AREA=	16.5	65.0	113.3	1523.7	70.6	72.1	69.4	79.9	66.5	16.9	
VEL=	.7	1.3	1.8	3.0	1.9	1.7	1.7	1.8	1.8	1.0	
DEPTH=	1.0	2.7	4.4	9.3	4.7	4.0	3.9	4.2	4.2	1.9	

*SECNO 22.578

3301 HV CHANGED MORE THAN HVINS

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .31

22.578	9.65	1416.34	.00	.00	1417.33	.99	.50	.26	1416.60
5500.0	.0	5500.0	.0	.0	688.9	.0	778.3	167.1	1421.20
.97	.00	7.98	.00	.000	.045	.000	.000	1406.70	9968.38
.004498	540.	502.	490.	3	0	0	.00	95.82	10064.20

FLOW DISTRIBUTION FOR SECNO= 22.58 CWSEL= 1416.34

STA= 9968. 10072.
PER Q= 100.0
AREA= 688.9
VEL= 8.0
DEPTH= 7.2

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.57

22.675	8.31	1418.01	.00	.00	1418.14	.14	.72	.09	1419.80
5500.0	.0	5500.0	.0	.0	1858.1	.0	793.3	169.4	1420.00
1.02	.00	2.96	.00	.000	.045	.000	.000	1409.70	9740.49
.000680	570.	512.	480.	2	0	0	.00	287.90	10028.39

FLOW DISTRIBUTION FOR SECNO= 22.67 CWSEL= 1418.01

STA= 9740. 10032.
PER Q= 100.0
AREA= 1858.1
VEL= 3.0
DEPTH= 6.5

*SECNO 22.794

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .51

22.794	7.85	1418.55	.00	.00	1418.97	.42	.75	.09	1417.80
5500.0	1.3	5395.1	103.6	1.5	1029.4	42.0	814.4	173.0	1416.10
1.05	.87	5.24	2.47	.045	.045	.045	.000	1410.70	9978.95
.002603	460.	628.	500.	2	0	0	.00	215.74	10194.69

FLOW DISTRIBUTION FOR SECNO= 22.79 CWSEL= 1418.55

STA=	9979.	9983.	10169.	10189.	10195.
PER Q=	.0	98.1	1.8	.1	
AREA=	1.5	1029.4	38.1	3.9	
VEL=	.9	5.2	2.6	1.3	
DEPTH=	.4	5.5	1.9	.7	

*SECNO 22.880

22.880	7.05	1420.05	.00	.00	1420.62	.58	1.60	.05	1426.40
5500.0	.0	5500.0	.0	.0	901.9	.0	824.7	175.2	1424.20
1.07	.00	6.10	.00	.000	.045	.000	.000	1413.00	9952.13
.005065	440.	454.	480.	2	0	0	.00	211.78	10163.91

FLOW DISTRIBUTION FOR SECNO= 22.88 CWSEL= 1420.05

STA=	9952.	10167.
PER Q=	100.0	
AREA=	901.9	
VEL=	6.1	
DEPTH=	4.3	

*SECNO 22.990

22.990	5.73	1423.63	.00	.00	1424.26	.62	3.62	.01	1425.40
5500.0	.0	5500.0	.0	.0	869.8	.0	836.5	178.4	1427.90
1.10	.00	6.32	.00	.000	.045	.000	.000	1417.90	9754.06
.007840	480.	581.	530.	3	0	0	.00	272.08	10026.14

FLOW DISTRIBUTION FOR SECNO= 22.99 CWSEL= 1423.63

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9754. 10034.
PER Q= 100.0
AREA= 869.8
VEL= 6.3
DEPTH= 3.2

*SECNO 23.097

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

23.097	4.79	1429.89	1429.89	.00	1431.46	1.57	6.49	.28	1432.30
5500.0	38.9	5461.1	.0	13.4	541.7	.0	845.7	181.4	1430.80
1.11	2.89	10.08	.00	.045	.045	.000	.000	1425.10	9899.14
.018369	640.	565.	490.	10	11	0	.00	186.86	10117.43

FLOW DISTRIBUTION FOR SECNO= 23.10 CWSEL= 1429.89

STA= 9899. 9916. 9925. 9927. 10121.
PER Q= .4 .3 .0 99.3
AREA= 8.3 4.8 .2 541.7
VEL= 2.9 3.0 1.2 10.1
DEPTH= .5 .5 .1 3.4

*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.09

23.168	4.15	1433.05	.00	.00	1433.22	.17	1.62	.14	1429.50
5500.0	763.8	4435.3	300.9	310.9	1269.5	143.5	855.3	184.7	1430.30
1.15	2.46	3.49	2.10	.045	.045	.045	.000	1428.90	9604.29
.001925	330.	375.	300.	5	0	0	.00	609.23	10213.52

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.17 CWSEL= 1433.05

STA=	9604.	9657.	9718.	9777.	10116.	10176.	10214.
PER Q=	.6	4.1	9.2	80.6	5.0	.5	
AREA=	33.0	106.8	171.1	1269.5	120.0	23.5	
VEL=	1.1	2.1	2.9	3.5	2.3	1.1	
DEPTH=	.6	1.8	2.9	3.7	2.0	.6	

*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

23.253	9.33	1434.53	1434.53	.00	1437.36	2.83	1.55	.80	1437.50
3400.0	.0	3400.0	.0	.0	252.0	.0	865.7	188.1	1444.20
1.16	.00	13.49	.00	.000	.040	.000	.000	1425.20	9978.44
.014919	470.	459.	450.	20	17	0	.00	44.74	10023.18

FLOW DISTRIBUTION FOR SECNO= 23.25 CWSEL= 1434.53

STA=	9978.	10038.
PER Q=	100.0	
AREA=	252.0	
VEL=	13.5	
DEPTH=	5.6	

*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS

23.334	7.79	1440.39	.00	.00	1441.83	1.43	4.33	.14	1443.80
3400.0	.0	3400.0	.0	.0	353.7	.0	868.6	188.7	1449.80
1.17	.00	9.61	.00	.000	.040	.000	.000	1432.60	9969.06
.007640	400.	417.	420.	2	0	0	.00	66.92	10035.98

FLOW DISTRIBUTION FOR SECNO= 23.33 CWSEL= 1440.39

14714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9969. 10055.
PER Q= 100.0
AREA= 353.7
VEL= 9.6
DEPTH= 5.3

*SECNO 23.416

23.416	7.32	1443.82	.00	.00	1445.60	1.77	3.67	.10	1447.80
3400.0	.0	3400.0	.0	.0	318.3	.0	871.9	189.3	1450.20
1.18	.00	10.68	.00	.000	.040	.000	.000	1436.50	9980.93
.009442	400.	433.	430.	3	0	0	.00	59.14	10040.07

FLOW DISTRIBUTION FOR SECNO= 23.42 CWSEL= 1443.82

STA= 9981. 10053.
PER Q= 100.0
AREA= 318.3
VEL= 10.7
DEPTH= 5.4

*SECNO 23.514

23.514	8.51	1448.11	.00	.00	1449.46	1.35	3.82	.04	1451.40
3400.0	.0	3400.0	.0	.0	364.8	.0	876.0	190.0	1451.10
1.19	.00	9.32	.00	.000	.040	.000	.000	1439.60	9977.54
.005937	560.	517.	470.	2	0	0	.00	57.47	10035.01

FLOW DISTRIBUTION FOR SECNO= 23.51 CWSEL= 1448.11

STA= 9978. 10039.
PER Q= 100.0
AREA= 364.8
VEL= 9.3
DEPTH= 6.3

*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

14714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
23.544	7.51	1448.91	.00	.00	1450.79	1.88	1.17	.16	1453.20
3400.0	.0	3400.0	.0	.0	309.4	.0	877.2	190.2	1452.90
1.20	.00	10.99	.00	.000	.040	.000	.000	1441.40	9978.90
.009552	190.	158.	150.	2	0	0	.00	54.80	10033.70

FLOW DISTRIBUTION FOR SECNO= 23.54 CWSEL= 1448.91

STA= 9979. 10039.
PER Q= 100.0
AREA= 309.4
VEL= 11.0
DEPTH= 5.6

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.95

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.59	2.80	3249.	152.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	.00	1453.37	.74	2.58	.00	1453.80
3400.0	.0	3400.0	.0	.0	493.8	.0	877.8	190.3	1453.50
1.20	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.56 CWSEL= 1452.64

STA= 9975. 10039.
PER Q= 100.0
AREA= 493.8
VEL= 6.9
DEPTH= 7.8

*SECNO 23.591
3280 CROSS SECTION 23.59 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.95	1453.15	.00	.00	1453.93	.78	.54	.01	1452.90
3400.0	.0	3400.0	.0	.0	478.5	.0	879.9	190.6	1453.80
1.21	.00	7.11	.00	.000	.040	.000	.000	1444.20	9968.00
.003292	100.	190.	210.	3	0	0	.00	75.49	10043.49

FLOW DISTRIBUTION FOR SECNO= 23.59 CWSEL= 1453.15

STA= 9968. 10045.
PER Q= 100.0
AREA= 478.5
VEL= 7.1
DEPTH= 6.3

*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.75	1455.15	.00	.00	1456.48	1.33	2.39	.16	1457.60
3400.0	.0	3400.0	.0	.0	367.9	.0	885.0	191.4	1455.30
1.22	.00	9.24	.00	.000	.040	.000	.000	1446.40	9970.39
.006585	510.	528.	540.	2	0	0	.00	65.33	10035.72

1K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.69 CWSEL= 1455.15

STA= 9970. 10036.
PER Q= 100.0
AREA= 367.9
VEL= 9.2
DEPTH= 5.6

*SECNO 23.815

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.815	9.31	1459.01	.00	.00	1460.09	1.08	3.59	.02	1458.90
4350.0	.0	4350.0	.0	.0	520.9	.0	891.7	192.5	1457.80
1.25	.00	8.35	.00	.000	.040	.000	.000	1449.70	9951.00
.004797	650.	655.	680.	3	0	0	.00	86.00	10037.00

FLOW DISTRIBUTION FOR SECNO= 23.82 CWSEL= 1459.01

STA= 9951. 10037.
PER Q= 100.0
AREA= 520.9
VEL= 8.4
DEPTH= 6.1

*SECNO 23.912
3280 CROSS SECTION 23.91 EXTENDED .14 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.912	13.14	1461.04	.00	.00	1462.18	1.14	2.07	.02	1461.30
5300.0	.0	5300.0	.0	.0	619.1	.0	898.4	193.5	1460.90
1.26	.00	8.56	.00	.000	.040	.000	.000	1447.90	9967.41
.003558	480.	512.	510.	3	0	0	.00	75.59	10043.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.91 CWSEL= 1461.04

STA= 9967. 10043.
PER Q= 100.0
AREA= 619.1
VEL= 8.6
DEPTH= 8.2

*SECNO 23.989

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.989	12.91	1462.61	.00	.00	1463.23	.63	1.00	.05	1465.60
5300.0	.0	5300.0	.0	.0	835.0	.0	905.2	194.3	1465.80
1.28	.00	6.35	.00	.000	.040	.000	.000	1449.70	9944.77
.001801	400.	407.	410.	2	0	0	.00	98.91	10043.68

FLOW DISTRIBUTION FOR SECNO= 23.99 CWSEL= 1462.61

STA= 9945. 10049.
PER Q= 100.0
AREA= 835.0
VEL= 6.3
DEPTH= 8.4

CCHV= .300 CEHV= .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1463.70 ELREA= 1463.70

24.086	9.84	1463.44	.00	.00	1464.31	.87	.95	.12	1453.60
5300.0	.0	5300.0	.0	.0	708.4	.0	914.3	195.3	1453.60
1.30	.00	7.48	.00	.000	.040	.000	.000	1453.60	9972.00
.001924	450.	512.	560.	4	0	0	.00	72.00	10044.00

KCI4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 24.09 CWSEL= 1463.44

STA= 9972. 10044.
PER Q= 100.0
AREA= 708.4
VEL= 7.5
DEPTH= 9.8

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	71.60	3.00	590.00	.00	1453.60	1453.60

*SECNO 24.096
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1465.39	1464.37	.08	0.	5300.	590.	590.	1462.20	1466.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1466.00 ELREA= 1466.00

24.096	11.11	1464.71	.00	.00	1465.39	.68	1.09	.00	1453.60
5300.0	.0	5300.0	.0	.0	800.4	.0	915.2	195.4	1453.60
1.30	.00	6.62	.00	.000	.040	.000	.000	1453.60	9972.00
.001280	56.	56.	56.	2	0	0	.00	72.00	10044.00

FLOW DISTRIBUTION FOR SECNO= 24.10 CWSEL= 1464.71

STA= 9972. 10044.
PER Q= 100.0
AREA= 800.4
VEL= 6.6
DEPTH= 11.1

*SECNO 24.106

24.106	11.01	1465.21	.00	.00	1465.55	.34	.05	.10	1464.10
5300.0	1.1	4877.6	421.3	1.3	1012.1	185.1	916.4	195.5	1458.50
1.30	.80	4.82	2.28	.035	.040	.050	.000	1454.20	9952.58
.000889	80.	53.	20.	2	0	0	.00	166.78	10119.36

K/L4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 24.11 CWSEL= 1465.21

STA=	9953.	9955.	10064.	10091.	10108.	10119.
PER Q=	.0	92.0	6.6	1.2	.1	
AREA=	1.3	1012.1	135.4	41.1	8.6	
VEL=	.8	4.8	2.6	1.6	.7	
DEPTH=	.6	9.3	5.0	2.4	.8	

CCHV= .100 CEHV= .300
*SECNO 24.195

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

24.195	12.09	1465.69	.00	.00	1465.84	.15	.27	.02	1470.40
5300.0	.0	5300.0	.0	.0	1706.8	.0	932.0	197.5	1466.40
1.35	.00	3.11	.00	.000	.040	.000	.000	1453.60	9941.09
.000402	470.	470.	460.	2	0	0	.00	196.58	10137.67

FLOW DISTRIBUTION FOR SECNO= 24.19 CWSEL= 1465.69

STA=	9941.	10142.
PER Q=	100.0	
AREA=	1706.8	
VEL=	3.1	
DEPTH=	8.7	

*SECNO 24.322

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.22

24.322	14.31	1465.91	.00	.00	1465.95	.04	.10	.01	1463.50
5300.0	6.2	4200.3	1093.4	14.5	2371.1	1071.5	971.3	201.7	1456.80
1.46	.43	1.77	1.02	.035	.040	.050	.000	1451.60	9858.94
.000081	640.	671.	630.	2	0	0	.00	366.31	10225.25

FLOW DISTRIBUTION FOR SECNO= 24.32 CWSEL= 1465.91

STA=	9859.	9871.	10064.	10134.	10177.	10220.	10225.
PER Q=	.1	79.3	12.9	5.9	1.8	.0	
AREA=	14.5	2371.1	606.3	312.3	151.0	1.9	
VEL=	.4	1.8	1.1	1.0	.6	.1	
DEPTH=	1.2	12.3	8.7	7.3	3.5	.4	

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.444

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .33

24.444	8.65	1465.95	.00	.00	1466.10	.15	.12	.03	1465.00
5300.0	.4	4211.2	1088.5	.7	1324.9	405.4	1008.9	206.4	1461.70
1.52	.49	3.18	2.69	.045	.045	.045	.000	1457.30	9926.47
.000727	640.	644.	600.	2	0	0	.00	277.67	10204.13

FLOW DISTRIBUTION FOR SECNO= 24.44 CWSEL= 1465.95

STA=	9926.	9928.	10122.	10142.	10166.	10180.	10204.
PER Q=	.0	79.5	6.0	8.3	4.0	2.3	
AREA=	.7	1324.9	113.1	147.7	76.4	68.2	
VEL=	.5	3.2	2.8	3.0	2.8	1.7	
DEPTH=	.5	6.8	5.7	6.2	5.5	2.8	

*SECNO 24.542

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .28

24.542	6.53	1466.33	.00	.00	1467.25	.92	.91	.23	1464.00
5300.0	26.1	5273.9	.0	7.8	684.1	.0	1023.3	209.1	1467.80
1.54	3.33	7.71	.00	.045	.045	.000	.000	1459.80	9907.26
.008955	470.	517.	530.	2	0	0	.00	181.23	10181.31

FLOW DISTRIBUTION FOR SECNO= 24.54 CWSEL= 1466.33

STA=	9907.	9914.	10187.
PER Q=	.5	99.5	
AREA=	7.8	684.1	
VEL=	3.3	7.7	
DEPTH=	1.2	3.9	

14714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.635

24.635	5.25	1472.05	1471.83	.00	1473.32	1.28	5.97	.11	1474.50
5300.0	.0	5300.0	.0	.0	584.2	.0	1030.5	211.2	1472.40
1.55	.00	9.07	.00	.000	.045	.000	.000	1466.80	9911.01
.017410	650.	491.	220.	12	15	0	.00	194.18	10105.18

FLOW DISTRIBUTION FOR SECNO= 24.64 CWSEL= 1472.05

STA=	9911.	10111.
PER Q=	100.0	
AREA=	584.2	
VEL=	9.1	
DEPTH=	3.0	

*SECNO 24.738

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

24.738	4.89	1476.89	.00	.00	1477.18	.29	3.76	.10	1481.20
5200.0	.0	1399.4	3800.6	.0	323.2	872.8	1042.5	214.9	1480.90
1.59	.00	4.33	4.35	.000	.045	.045	.000	1472.00	9936.06
.003356	350.	544.	630.	4	0	0	.00	355.18	10340.68

FLOW DISTRIBUTION FOR SECNO= 24.74 CWSEL= 1476.89

STA=	9936.	10038.	10088.	10127.	10224.	10291.	10330.	10341.
PER Q=	26.9	.6	10.4	33.5	19.3	8.4	.9	
AREA=	323.2	12.1	128.1	372.1	230.2	112.5	17.5	
VEL=	4.3	2.5	4.2	4.7	4.4	3.9	2.6	
DEPTH=	3.4	.2	3.3	3.8	3.4	2.9	1.6	

*SECNO 24.838

1G714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

24.838	5.63	1480.33	1480.33	.00	1480.92	.60	3.02	.09	1483.80
5200.0	.0	1244.3	3955.7	.0	140.6	777.8	1053.9	220.2	1483.50
1.61	.00	8.85	5.09	.000	.045	.045	.000	1474.70	9968.35
.016849	470.	528.	450.	1	12	0	.00	650.49	10633.62

FLOW DISTRIBUTION FOR SECNO= 24.84 CWSEL= 1480.33

STA=	9968.	10019.	10066.	10111.	10162.	10185.	10219.	10270.	10365.	10450.	10630.	10634.
PER Q=	23.9	3.3	4.2	6.7	3.0	4.5	6.7	12.5	11.2	23.7	.1	
AREA=	140.6	39.1	48.4	67.6	30.5	45.1	67.6	125.9	112.7	238.6	2.4	
VEL=	8.8	4.4	4.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	3.1	
DEPTH=	3.1	.8	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	.7	

*SECNO 24.943

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.83

24.943	5.74	1483.44	.00	.00	1483.57	.12	2.60	.05	1481.80
5200.0	851.4	498.4	3850.1	351.0	132.5	1408.1	1072.0	229.6	1484.80
1.67	2.43	3.76	2.73	.045	.045	.045	.000	1477.70	9801.22
.002110	530.	554.	570.	7	0	0	.00	799.36	10618.77

FLOW DISTRIBUTION FOR SECNO= 24.94 CWSEL= 1483.44

STA=	9801.	9813.	9926.	9945.	9983.	10017.	10044.	10080.	10540.	10610.	10619.
PER Q=	.3	12.7	1.6	1.8	9.6	.5	4.7	59.5	9.1	.3	
AREA=	10.3	253.6	36.0	51.1	132.5	13.8	88.0	1124.5	171.1	10.7	
VEL=	1.4	2.6	2.3	1.8	3.8	1.7	2.8	2.8	2.8	1.7	
DEPTH=	.9	2.2	1.9	1.3	4.2	.5	2.4	2.4	2.4	1.2	

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.048

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

25.048	3.57	1487.27	1487.27	.00	1487.98	.71	2.60	.18	1486.60
5200.0	1444.5	645.1	3110.4	283.5	84.2	430.3	1088.6	238.1	1493.60
1.69	5.10	7.66	7.23	.045	.045	.045	.000	1483.70	9705.76
.020608	580.	554.	520.	20	14	0	.00	557.24	10481.24

FLOW DISTRIBUTION FOR SECNO= 25.05 CWSEL= 1487.27

STA=	9706.	9817.	9941.	9966.	10017.	10154.	10223.	10247.	10450.	10470.	10481.
PER Q=	8.8	16.9	2.2	12.4	18.7	10.0	12.0	3.8	13.1	2.3	
AREA=	101.7	157.6	24.3	84.2	157.2	91.1	66.4	31.9	65.4	18.4	
VEL=	4.5	5.6	4.6	7.7	6.2	5.7	9.4	6.1	10.4	6.4	
DEPTH=	.9	1.3	1.0	2.1	1.1	1.3	2.8	.2	3.3	1.6	

*SECNO 25.163

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.21

25.163	6.19	1492.19	.00	.00	1492.51	.31	4.49	.04	1491.60
4900.0	205.3	1143.6	3551.1	73.5	218.9	823.3	1101.7	244.5	1493.10
1.73	2.79	5.23	4.31	.045	.045	.045	.000	1486.00	9922.08
.003749	640.	607.	580.	5	0	0	.00	369.01	10297.84

FLOW DISTRIBUTION FOR SECNO= 25.16 CWSEL= 1492.19

STA=	9922.	9947.	9965.	9972.	10025.	10044.	10088.	10147.	10220.	10291.	10298.
PER Q=	1.0	2.6	.5	23.3	1.3	12.6	16.9	20.9	20.3	.6	
AREA=	24.8	38.6	10.1	218.9	23.6	140.5	188.4	233.1	226.7	10.9	
VEL=	2.0	3.4	2.5	5.2	2.7	4.4	4.4	4.4	4.4	2.6	
DEPTH=	1.0	2.1	1.4	4.3	1.2	3.2	3.2	3.2	3.2	1.6	

1G/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.262
3280 CROSS SECTION 25.26 EXTENDED .01 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1491.60 ELREA= 1510.00

25.262	10.01	1494.01	.00	.00	1494.20	.19	1.68	.01	1491.60
4900.0	4119.0	781.0	.0	1187.1	220.4	.0	1116.5	249.7	1496.80
1.77	3.47	3.54	.00	.045	.045	.000	.000	1484.00	9501.71
.002847	470.	523.	570.	5	0	0	.00	521.78	10023.49

FLOW DISTRIBUTION FOR SECNO= 25.26 CWSEL= 1494.01

STA=	9502.	9513.	9547.	9618.	9646.	9689.	9707.	9823.	9948.	10030.
PER Q=	1.4	12.9	14.3	3.6	4.5	1.1	18.7	27.4	15.9	
AREA=	24.9	139.8	199.6	60.5	82.2	24.5	285.5	370.1	220.4	
VEL=	2.8	4.5	3.5	2.9	2.7	2.2	3.2	3.6	3.5	
DEPTH=	2.2	4.1	2.8	2.2	1.9	1.4	2.5	3.0	2.9	

*SECNO 25.374
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

25.374	6.07	1499.37	1499.37	.00	1499.62	.26	1.89	.02	1499.30
4900.0	3795.5	1104.5	.0	981.1	238.1	.0	1136.5	256.5	1498.80
1.81	3.87	4.64	2.06	.045	.045	.045	.000	1493.30	9655.94
.002869	680.	591.	300.	20	20	0	.00	367.07	10023.00

FLOW DISTRIBUTION FOR SECNO= 25.37 CWSEL= 1499.37

STA=	9656.	9659.	9704.	9838.	9920.	9933.	9944.	9950.	9955.	9963.	9969.	10023.
PER Q=	.0	6.3	39.3	22.9	3.4	1.8	.5	.9	2.0	.3	22.5	
AREA=	1.8	101.9	471.1	280.1	42.4	27.1	9.4	13.3	25.7	8.2	238.1	
VEL=	1.2	3.0	4.1	4.0	3.9	3.2	2.4	3.2	3.8	2.1	4.6	
DEPTH=	.6	2.3	3.5	3.4	3.3	2.5	1.6	2.7	3.2	1.4	4.4	

*SECNO 25.434

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1504.90 ELREA= 1504.00

25.434	8.17	1503.97	1503.97	.00	1506.92	2.95	1.79	.81	1504.90
4900.0	.0	4900.0	.0	.0	355.5	.0	1143.2	258.3	1504.00
1.82	.00	13.78	.00	.000	.035	.000	.000	1495.80	9970.53
.011721	400.	317.	190.	20	14	0	.00	65.40	10035.93

FLOW DISTRIBUTION FOR SECNO= 25.43 CWSEL= 1503.97

STA= 9971. 10036.
PER Q= 100.0
AREA= 355.5
VEL= 13.8
DEPTH= 5.4

*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.25

25.500	10.04	1507.74	.00	.00	1508.08	.34	.91	.26	1511.50
4900.0	.0	4900.0	.0	.0	1043.7	.0	1148.8	259.3	1509.00
1.84	.00	4.69	.00	.000	.035	.000	.000	1497.70	9923.52
.001109	250.	349.	420.	2	0	0	.00	170.83	10094.35

FLOW DISTRIBUTION FOR SECNO= 25.50 CWSEL= 1507.74

STA= 9924. 10105.
PER Q= 100.0
AREA= 1043.7
VEL= 4.7
DEPTH= 6.1

K-T14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 25.523

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

25.523	11.99	1507.99	.00	.00	1508.19	.20	.07	.04	1498.00
4900.0	472.4	3501.1	926.6	229.7	885.4	337.9	1152.3	259.7	1498.00
1.85	2.06	3.95	2.74	.050	.035	.035	.000	1496.00	9930.02
.000331	120.	121.	120.	2	0	0	.00	161.62	10091.63

FLOW DISTRIBUTION FOR SECNO= 25.52 CWSEL= 1507.99

STA=	9930.	9950.	9963.	10037.	10050.	10092.
PER Q=	3.0	6.7	71.5	9.5	9.4	
AREA=	99.8	129.9	885.4	129.9	208.0	
VEL=	1.5	2.5	4.0	3.6	2.2	
DEPTH=	5.0	10.0	12.0	10.0	5.0	

*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

25.534	5.21	1510.75	1510.75	.00	1513.36	2.61	.04	1.20	1515.00
4900.0	.0	4900.0	.0	.0	378.2	.0	1153.5	259.9	1515.00
1.85	.00	12.96	.00	.000	.015	.000	.000	1505.54	9963.45
.002246	58.	58.	58.	20	14	0	.00	73.10	10036.55

FLOW DISTRIBUTION FOR SECNO= 25.53 CWSEL= 1510.75

STA=	9963.	10037.
PER Q=	100.0	
AREA=	378.2	
VEL=	13.0	
DEPTH=	5.2	

14CT4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

25.551	6.67	1512.21	1510.75	.00	1513.80	1.58	.13	.31	1515.00
4900.0	.0	4900.0	.0	.0	485.2	.0	1154.4	260.1	1515.00
1.85	.00	10.10	.00	.000	.015	.000	.000	1505.54	9963.29
.001025	90.	90.	90.	25	5	0	.00	73.41	10036.71

FLOW DISTRIBUTION FOR SECNO= 25.55 CWSEL= 1512.21

STA= 9963. 10037.
PER Q= 100.0
AREA= 485.2
VEL= 10.1
DEPTH= 6.6

*SECNO 25.557

25.557	6.54	1512.08	.00	.00	1514.01	1.93	.04	.18	1515.00
4900.0	.0	4900.0	.0	.0	439.0	.0	1154.7	260.1	1515.00
1.86	.00	11.16	.00	.000	.015	.000	.000	1505.54	9959.87
.001385	32.	32.	32.	2	0	0	.00	80.27	10040.13

FLOW DISTRIBUTION FOR SECNO= 25.56 CWSEL= 1512.08

STA= 9960. 10046.
PER Q= 100.0
AREA= 439.0
VEL= 11.2
DEPTH= 5.5

*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
25.561	8.76	1514.36	.00	.00	1514.55	.19	.02	.52	1514.90
2900.0	.0	2900.0	.0	.0	825.4	.0	1155.0	260.2	1515.20
1.86	.00	3.51	.00	.000	.035	.000	.000	1505.60	9949.33
.000529	20.	21.	20.	3	0	0	.00	117.68	10067.02

FLOW DISTRIBUTION FOR SECNO= 25.56 CWSEL= 1514.36

STA= 9949. 10069.
PER Q= 100.0
AREA= 825.4
VEL= 3.5
DEPTH= 7.0

CCHV= .100 CEHV= .300
*SECNO 25.680

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

25.680	8.24	1514.74	.00	.00	1514.78	.04	.21	.02	1514.40
2700.0	297.0	1319.3	1083.6	333.0	759.6	733.6	1174.2	265.7	1511.20
1.97	.89	1.74	1.48	.035	.035	.035	.000	1506.50	9471.45
.000225	580.	628.	660.	2	0	0	.00	663.75	10305.23

FLOW DISTRIBUTION FOR SECNO= 25.68 CWSEL= 1514.74

STA=	9471.	9688.	9796.	9927.	10093.	10167.	10278.	10295.	10305.
PER Q=	3.0	6.6	1.4	48.9	10.6	21.6	6.6	1.4	
AREA=	82.4	169.5	81.1	759.6	217.7	393.2	91.7	30.9	
VEL=	1.0	1.0	.5	1.7	1.3	1.5	2.0	1.2	
DEPTH=	.4	1.6	.6	4.6	2.9	3.5	5.4	3.0	

*SECNO 25.786

3265 DIVIDED FLOW

KCI4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1518.90 ELREA= 1515.80

25.786	5.62	1516.32	1516.32	.00	1516.97	.64	.32	.18	1518.90
2500.0	.0	1867.5	632.5	.0	258.0	212.4	1188.2	271.9	1515.80
1.99	.00	7.24	2.98	.000	.035	.035	.000	1510.70	9982.01
.005773	600.	560.	470.	20	18	0	.00	351.98	10442.86

FLOW DISTRIBUTION FOR SECNO= 25.79 CWSEL= 1516.32

STA=	9982.	10056.	10189.	10273.	10418.	10435.	10440.	10443.
PER Q=	74.7	11.2	3.6	2.1	5.7	2.4	.4	
AREA=	258.0	102.9	43.0	22.1	30.2	11.1	3.0	
VEL=	7.2	2.7	2.1	2.3	4.7	5.5	2.9	
DEPTH=	3.5	.8	.5	.2	1.8	2.2	1.1	

*SECNO 25.947

25.947	6.67	1521.07	.00	.00	1521.63	.56	4.65	.01	1522.70
2300.0	.0	1967.1	332.9	.0	315.1	80.7	1196.6	276.8	1520.60
2.03	.00	6.24	4.13	.000	.035	.035	.000	1514.40	9958.72
.005225	870.	850.	830.	2	0	0	.00	164.54	10123.26

FLOW DISTRIBUTION FOR SECNO= 25.95 CWSEL= 1521.07

STA=	9959.	10066.	10107.	10113.	10119.	10123.
PER Q=	85.5	6.7	3.2	3.9	.7	
AREA=	315.1	46.3	14.0	15.5	4.9	
VEL=	6.2	3.3	5.3	5.8	3.1	
DEPTH=	2.9	1.1	2.3	2.6	1.1	

*SECNO 26.058

26.058	7.29	1523.49	.00	.00	1523.98	.49	2.35	.01	1522.00
2200.0	620.8	1579.2	.0	178.1	251.8	.0	1202.0	279.1	1524.00
2.06	3.49	6.27	.00	.035	.035	.000	.000	1516.20	9841.26
.003212	540.	586.	570.	2	0	0	.00	182.03	10023.28

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.06 CWSEL= 1523.49

STA=	9841.	9904.	9927.	9951.	9966.	10024.
PER Q=	4.3	7.2	11.6	5.1	71.8	
AREA=	46.6	43.3	58.4	29.8	251.8	
VEL=	2.0	3.7	4.4	3.8	6.3	
DEPTH=	.7	1.9	2.4	2.0	4.4	

*SECNO 26.152

26.152	4.99	1524.99	.00	.00	1525.46	.46	1.47	.00	1525.40
2000.0	.0	2000.0	.0	.0	366.7	.0	1206.0	280.4	1526.00
2.09	.00	5.45	.00	.000	.035	.000	.000	1520.00	9958.10
.003182	240.	496.	550.	2	0	0	.00	105.87	10063.97

FLOW DISTRIBUTION FOR SECNO= 26.15 CWSEL= 1524.99

STA=	9958.	10069.
PER Q=	100.0	
AREA=	366.7	
VEL=	5.5	
DEPTH=	3.5	

*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

26.265	6.15	1528.15	1528.15	.00	1529.39	1.24	3.01	.23	1531.70
1900.0	.0	1758.2	141.8	.0	190.6	38.9	1210.1	281.8	1526.50
2.11	.00	9.23	3.64	.000	.035	.035	.000	1522.00	9972.98
.009530	580.	597.	610.	5	11	0	.00	103.26	10076.25

FLOW DISTRIBUTION FOR SECNO= 26.26 CWSEL= 1528.15

STA=	9973.	10029.	10076.
PER Q=	92.5	7.5	
AREA=	190.6	38.9	
VEL=	9.2	3.6	
DEPTH=	3.4	.8	

14FPRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.96

26.372	7.55	1531.35	.00	.00	1531.67	.32	2.19	.09	1531.60
1700.0	.0	1700.0	.0	.0	372.2	.0	1214.0	283.1	1533.80
2.14	.00	4.57	.00	.000	.035	.000	.000	1523.80	9967.15
.001979	600.	565.	510.	3	0	0	.00	97.17	10064.32

FLOW DISTRIBUTION FOR SECNO= 26.37 CWSEL= 1531.35

STA= 9967. 10080.
PER Q= 100.0
AREA= 372.2
VEL= 4.6
DEPTH= 3.8

*SECNO 26.492

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.99

26.492	6.45	1532.15	.00	.00	1532.22	.08	.53	.02	1537.50
1600.0	.0	1600.0	.0	.0	720.9	.0	1221.9	285.1	1536.00
2.22	.00	2.22	.00	.000	.035	.000	.000	1525.70	9885.25
.000442	640.	634.	610.	3	0	0	.00	183.14	10068.38

FLOW DISTRIBUTION FOR SECNO= 26.49 CWSEL= 1532.15

STA= 9885. 10084.
PER Q= 100.0
AREA= 720.9
VEL= 2.2
DEPTH= 3.9

*SECNO 26.582

KC/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 6.37

26.582	8.14	1532.24	.00	.00	1532.24	.00	.01	.01	1528.20
1300.0	594.6	479.1	226.4	1979.9	1035.9	773.7	1246.2	290.0	1527.20
2.59	.30	.46	.29	.040	.030	.040	.000	1524.10	9470.61
.000007	460.	475.	480.	2	0	0	.00	718.47	10189.08

FLOW DISTRIBUTION FOR SECNO= 26.58 CWSEL= 1532.24

STA=	9471.	9539.	9568.	9602.	9655.	9691.	9725.	9752.	9786.	9845.	9869.	10028.	10086.
PER Q=	6.7	5.0	4.9	6.6	4.4	4.0	3.2	3.7	5.3	2.0	36.9	7.5	
AREA=	281.5	186.8	198.6	282.5	188.7	174.8	140.2	168.0	258.0	100.6	1035.9	315.7	
VEL=	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.5	.3	
DEPTH=	4.1	6.4	5.8	5.3	5.2	5.1	5.2	4.9	4.4	4.2	6.5	5.4	

STA=	10086.	10123.	10157.	10189.
PER Q=	4.7	3.8	1.4	
AREA=	199.5	170.6	87.9	
VEL=	.3	.3	.2	
DEPTH=	5.4	5.0	2.7	

*SECNO 26.673

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1535.00 ELREA= 1533.20

26.673	2.18	1533.98	1533.98	.00	1534.51	.53	.01	.16	1534.30
1300.0	.0	1094.7	205.3	.0	174.3	74.2	1269.0	295.3	1533.20
2.61	.00	6.28	2.77	.000	.030	.040	.000	1531.80	9957.84
.009696	510.	480.	460.	20	14	0	.00	239.18	10280.56

KY14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.67 CWSEL= 1533.98

STA=	9958.	10077.	10105.	10120.	10205.	10237.	10265.	10281.
PER Q=	84.2	5.2	.9	.0	3.6	5.2	.9	
AREA=	174.3	21.8	5.8	.3	18.5	21.8	6.1	
VEL=	6.3	3.1	1.9	1.2	2.5	3.1	1.9	
DEPTH=	1.5	.8	.4	.0	.6	.8	.4	

*SECNO 26.784
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

26.784	3.48	1546.18	1546.18	.00	1547.20	1.02	5.95	.15	1551.20
1100.0	.0	1100.0	.0	.0	135.8	.0	1271.5	297.3	1551.50
2.63	.00	8.10	.00	.000	.030	.000	.000	1542.70	9980.90
.010938	590.	586.	530.	20	14	0	.00	68.01	10048.91

FLOW DISTRIBUTION FOR SECNO= 26.78 CWSEL= 1546.18

STA=	9981.	10080.
PER Q=	100.0	
AREA=	135.8	
VEL=	8.1	
DEPTH=	2.0	

*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 42.71

26.883	7.21	1547.31	.00	.00	1547.31	.00	.01	.10	1544.70
1000.0	.9	936.4	62.7	9.9	2370.0	292.0	1288.3	300.3	1542.80
3.01	.10	.40	.21	.040	.030	.040	.000	1540.10	9765.39
.000005	530.	523.	500.	2	0	0	.00	434.21	10199.60

FLOW DISTRIBUTION FOR SECNO= 26.88 CWSEL= 1547.31

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9765.	9773.	10122.	10148.	10166.	10179.	10194.	10200.
PER Q=	.1	93.6	2.7	2.0	1.1	.4	.0	
AREA=	9.9	2370.0	119.8	85.6	52.1	31.6	2.8	
VEL=	.1	.4	.2	.2	.2	.1	.1	
DEPTH=	1.3	6.8	4.6	4.8	4.0	2.1	.5	

*SECNO 26.984

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

26.984	6.81	1547.31	.00	.00	1547.32	.00	.00	.00	1545.50
900.0	1.3	764.0	134.7	9.7	1283.2	393.8	1314.4	305.0	1546.50
3.27	.13	.60	.34	.040	.030	.040	.000	1540.50	9932.30
.000015	480.	533.	460.	2	0	0	.00	371.10	10336.41

FLOW DISTRIBUTION FOR SECNO= 26.98 CWSEL= 1547.31

STA=	9932.	9943.	10170.	10256.	10271.	10290.	10323.	10336.
PER Q=	.1	84.9	3.2	3.2	3.7	4.2	.7	
AREA=	9.7	1283.2	94.9	71.5	86.1	115.2	26.1	
VEL=	.1	.6	.3	.4	.4	.3	.2	
DEPTH=	.9	5.7	1.1	4.8	4.5	3.5	1.9	

*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1565.00 ELREA= 1562.60

27.060	5.36	1559.46	1559.46	.00	1561.02	1.56	.02	.47	1560.80
900.0	.0	900.0	.0	.0	89.8	.0	1322.8	307.0	1562.60
3.28	.00	10.02	.00	.000	.030	.000	.000	1554.10	9983.67
.010153	270.	401.	470.	20	15	0	.00	29.47	10013.14

K/74PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 27.06 CWSEL= 1559.46

STA= 9984. 10019.
PER Q= 100.0
AREA= 89.8
VEL= 10.0
DEPTH= 3.0

*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.65

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1565.00 ELREA= 1565.00

27.166	6.98	1562.18	.00	.00	1562.35	.17	1.19	.14	1564.20
600.0	.0	600.0	.0	.0	181.4	.0	1324.6	307.4	1563.90
3.33	.00	3.31	.00	.000	.030	.000	.000	1555.20	9981.04
.000644	560.	560.	560.	3	0	0	.00	38.99	10020.03

FLOW DISTRIBUTION FOR SECNO= 27.17 CWSEL= 1562.18

STA= 9981. 10023.
PER Q= 100.0
AREA= 181.4
VEL= 3.3
DEPTH= 4.7

*SECNO 27.294

27.294	6.54	1562.54	.00	.00	1562.59	.05	.23	.01	1565.20
400.0	.0	400.0	.0	.0	232.9	.0	1327.8	308.1	1564.60
3.44	.00	1.72	.00	.000	.030	.000	.000	1556.00	9972.01
.000167	710.	676.	630.	3	0	0	.00	50.20	10022.21

FLOW DISTRIBUTION FOR SECNO= 27.29 CWSEL= 1562.54

1CT14PRINT

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


STA=    9972.   10027.
  PER Q=    100.0
   AREA=    232.9
    VEL=      1.7
  DEPTH=      4.6

CCHV=     .100 CEHV=     .300
*SECNO -19.560
START TRIB COMP
    -19.560    19.560  1328.212
   -19.560     12.61   1328.21       .00        .00   1330.15       1.93        .00        .00   1329.70
   14600.0        .0   14600.0        .0         .0    1307.9         .0    1340.7      309.6   1330.60
      3.45       .00     11.16       .00       .000      .035       .000       .000    1315.60   9931.37
   .003382      730.      729.      720.          0         0          0        .00     129.62  10060.99


FLOW DISTRIBUTION FOR SECNO=    -19.56          CWSEL=   1328.21

STA=    9931.   10065.
  PER Q=    100.0
   AREA=   1307.9
    VEL=     11.2
  DEPTH=     10.1

*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .029       9.75   1329.35   1329.35       .00   1332.60       3.24       1.11        .39   1329.50
    9500.0         .0    9478.3      21.7         .0     654.9       17.3     1350.5      310.9   1328.20
      3.46       .00      14.47      1.25       .000      .015       .035       .000    1319.60   9942.56
   .001821      380.      430.      450.         20        15          0        .00     130.50  10073.06


FLOW DISTRIBUTION FOR SECNO=       .03          CWSEL=   1329.35

STA=    9943.   10043.   10073.
  PER Q=     99.8       .2
   AREA=    654.9     17.3
    VEL=     14.5      1.3
  DEPTH=      6.5       .6
```


KC14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .112

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

.112	11.44	1332.94	.00	.00	1333.44	.50	.57	.27	1332.10
9500.0	100.1	9399.9	.0	87.6	1654.0	.0	1363.8	313.4	1334.80
3.49	1.14	5.68	.00	.035	.030	.000	.000	1321.50	9762.30
.000828	430.	483.	450.	3	0	0	.00	330.25	10092.55

FLOW DISTRIBUTION FOR SECNO= .11 CWSEL= 1332.94

STA=	9762.	9804.	9816.	9863.	9887.	10101.
PER Q=	.0	.1	.6	.3	98.9	
AREA=	7.1	7.7	49.0	23.8	1654.0	
VEL=	.4	.9	1.3	1.2	5.7	
DEPTH=	.2	.6	1.0	1.0	8.0	

*SECNO .198

.198	9.51	1333.31	.00	.00	1333.94	.63	.46	.04	1332.40
9500.0	13.9	9486.1	.0	15.6	1493.4	.0	1380.7	316.4	1337.80
3.51	.89	6.35	.00	.035	.030	.000	.000	1323.80	9860.87
.001241	460.	454.	420.	2	0	0	.00	249.57	10110.44

FLOW DISTRIBUTION FOR SECNO= .20 CWSEL= 1333.31

STA=	9861.	9897.	10133.	
PER Q=	.1	99.9		
AREA=	15.6	1493.4		
VEL=	.9	6.4		
DEPTH=	.4	7.0		

*SECNO .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

.288	7.61	1333.31	1333.31	.00	1335.83	2.52	1.21	.57	1336.00
9500.0	.0	9500.0	.0	.0	745.7	.0	1393.0	318.6	1335.90
3.52	.00	12.74	.00	.000	.030	.000	.000	1325.70	9903.19
.007920	470.	475.	460.	3	15	0	.00	150.75	10053.94

FLOW DISTRIBUTION FOR SECNO= .29 CWSEL= 1333.31

STA= 9903. 10069.
PER Q= 100.0
AREA= 745.7
VEL= 12.7
DEPTH= 4.9

*SECNO .398

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

.398	8.47	1337.27	.00	.00	1338.35	1.08	2.37	.14	1338.90
9500.0	.0	9500.0	.0	.0	1138.7	.0	1405.6	320.8	1340.60
3.54	.00	8.34	.00	.000	.030	.000	.000	1328.80	9912.48
.002485	600.	581.	540.	2	0	0	.00	181.83	10094.30

FLOW DISTRIBUTION FOR SECNO= .40 CWSEL= 1337.27

STA= 9912. 10119.
PER Q= 100.0
AREA= 1138.7
VEL= 8.3
DEPTH= 6.3

*SECNO .482
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.482	11.15	1342.35	1342.35	.00	1343.41	1.05	1.00	.00	1341.10
9500.0	79.0	6887.4	2533.6	36.5	722.3	941.8	1418.2	324.7	1338.00
3.55	2.17	9.54	2.69	.035	.030	.035	.000	1331.20	9903.83
.002295	440.	444.	270.	20	12	0	.00	889.74	10793.57

K/L4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .48 CWSEL= 1342.35

STA=	9904.	9937.	10024.	10093.	10236.	10315.	10402.	10528.	10794.
PER Q=	.8	72.5	9.0	4.9	3.6	3.1	3.4	2.6	
AREA=	36.4	722.3	203.8	189.3	124.7	117.7	145.3	161.1	
VEL=	2.2	9.5	4.2	2.5	2.8	2.5	2.2	1.6	
DEPTH=	1.1	8.3	3.0	1.3	1.6	1.4	1.2	.6	

*SECNO .575

.575	12.32	1343.82	.00	.00	1344.53	.71	1.09	.03	1340.20
9500.0	727.3	7778.2	994.5	211.3	1057.4	451.4	1437.5	333.9	1343.10
3.57	3.44	7.36	2.20	.035	.030	.035	.000	1331.50	9777.80
.002143	460.	491.	500.	3	0	0	.00	730.21	10508.02

FLOW DISTRIBUTION FOR SECNO= .57 CWSEL= 1343.82

STA=	9778.	9869.	10049.	10105.	10113.	10186.	10239.	10274.	10411.	10508.
PER Q=	7.7	81.9	1.2	.1	.7	2.1	2.1	4.0	.3	
AREA=	211.3	1057.4	57.1	6.6	45.3	77.9	67.2	167.2	30.1	
VEL=	3.4	7.4	2.0	1.7	1.4	2.5	3.0	2.2	.9	
DEPTH=	2.3	5.9	1.0	.8	.6	1.5	1.9	1.2	.3	

*SECNO .697

.697	11.06	1345.06	.00	.00	1346.10	1.04	1.47	.10	1346.40
9400.0	.0	9013.5	386.5	.0	1081.8	113.6	1459.0	341.1	1341.40
3.59	.00	8.33	3.40	.000	.030	.035	.000	1334.00	9856.01
.002432	640.	644.	640.	2	0	0	.00	237.20	10093.21

FLOW DISTRIBUTION FOR SECNO= .70 CWSEL= 1345.06

STA=	9856.	10023.	10061.	10093.
PER Q=	95.9	3.8	.3	
AREA=	1081.8	93.4	20.2	
VEL=	8.3	3.8	1.5	
DEPTH=	6.5	2.5	.6	

*SECNO .826

KC/4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.826	9.49	1348.29	1348.29	.00	1350.53	2.23	2.75	.36	1345.50
9400.0	729.3	8670.7	.0	129.5	700.6	.0	1474.8	344.5	1349.50
3.61	5.63	12.38	.00	.035	.035	.000	.000	1338.80	9845.35
.007973	680.	681.	660.	20	15	0	.00	199.85	10045.20

FLOW DISTRIBUTION FOR SECNO= .83 CWSEL= 1348.29

STA=	9845.	9893.	9929.	10050.
PER Q=	1.8	6.0	92.2	
AREA=	45.1	84.4	700.6	
VEL=	3.7	6.7	12.4	
DEPTH=	.9	2.3	6.0	

*SECNO .945

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

.945	11.72	1352.12	.00	.00	1352.63	.52	1.93	.17	1348.60
9400.0	1059.5	7814.3	526.3	363.8	1260.4	223.3	1494.4	350.1	1349.50
3.64	2.91	6.20	2.36	.035	.035	.035	.000	1340.40	9624.18
.001604	680.	628.	600.	3	0	0	.00	561.70	10185.88

FLOW DISTRIBUTION FOR SECNO= .94 CWSEL= 1352.12

STA=	9624.	9674.	9704.	9769.	9819.	9843.	9856.	10034.	10046.	10100.	10186.
PER Q=	.0	.1	2.9	4.8	2.0	1.5	83.1	.9	3.1	1.6	
AREA=	7.9	9.5	111.6	135.8	59.2	39.9	1260.4	27.8	108.9	86.6	
VEL=	.5	.8	2.4	3.3	3.1	3.6	6.2	3.0	2.7	1.7	
DEPTH=	.2	.3	1.7	2.7	2.5	3.1	7.1	2.3	2.0	1.0	

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.035

1.035	11.03	1352.93	.00	.00	1353.65	.72	.96	.06	1350.80
9400.0	1059.6	7955.9	384.6	284.3	1102.8	116.6	1512.3	355.5	1348.80
3.66	3.73	7.21	3.30	.035	.035	.035	.000	1341.90	9686.18
.002658	440.	475.	460.	3	0	0	.00	460.77	10146.95

FLOW DISTRIBUTION FOR SECNO= 1.03 CWSEL= 1352.93

STA=	9686.	9723.	9776.	9795.	9823.	9832.	9841.	10022.	10046.	10059.	10100.	10147.
PER Q=	1.2	2.5	.3	3.3	2.5	1.5	84.6	3.3	.3	.3	.1	
AREA=	44.8	81.2	14.8	73.7	39.9	30.0	1102.8	70.4	14.1	19.7	12.5	
VEL=	2.5	2.9	1.9	4.2	5.9	4.8	7.2	4.5	2.3	1.3	.9	
DEPTH=	1.2	1.5	.8	2.6	4.4	3.3	6.1	2.9	1.1	.5	.3	

*SECNO 1.121

1.121	10.56	1354.16	.00	.00	1354.96	.80	1.29	.02	1355.00
9400.0	.0	9396.0	4.0	.0	1310.2	4.9	1527.1	359.1	1353.60
3.68	.00	7.17	.82	.000	.040	.040	.000	1343.60	9871.67
.003028	480.	454.	440.	2	0	0	.00	235.28	10106.95

FLOW DISTRIBUTION FOR SECNO= 1.12 CWSEL= 1354.16

STA=	9872.	10069.	10082.	10107.
PER Q=	100.0	.0	.0	
AREA=	1310.2	4.1	.8	
VEL=	7.2	.9	.2	
DEPTH=	6.6	.3	.0	

*SECNO 1.204

3265 DIVIDED FLOW

3280 CROSS SECTION 1.20 EXTENDED .02 FEET

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1.204	11.12	1355.42	1355.42	.00	1357.51	2.09	2.02	.39	1355.60
9400.0	.0	8391.4	1008.6	.0	689.1	214.7	1538.3	361.4	1352.50
3.69	.03	12.18	4.70	.040	.040	.040	.000	1344.30	9930.00
.007829	430.	438.	450.	2	9	0	.00	226.07	10173.36

FLOW DISTRIBUTION FOR SECNO= 1.20 CWSEL= 1355.42

STA=	9930.	10043.	10057.	10072.	10098.	10165.	10173.
PER Q=	89.3	1.9	1.2	2.5	5.0	.1	
AREA=	689.1	31.8	25.1	47.4	105.3	5.1	
VEL=	12.2	5.7	4.6	4.9	4.4	2.4	
DEPTH=	7.4	2.3	1.7	1.8	1.6	.6	

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.29

1.315	10.53	1359.33	.00	.00	1359.72	.39	2.04	.17	1359.70
9100.0	.0	6944.0	2156.0	.0	1301.1	568.6	1561.3	366.0	1359.00
3.73	.00	5.34	3.79	.000	.040	.040	.000	1348.80	9904.63
.001396	720.	734.	700.	3	0	0	.00	332.04	10236.67

FLOW DISTRIBUTION FOR SECNO= 1.32 CWSEL= 1359.33

STA=	9905.	10074.	10085.	10091.	10130.	10150.	10170.	10230.	10237.
PER Q=	76.3	.1	.2	1.0	3.4	8.4	10.5	.1	
AREA=	1301.1	10.3	8.6	52.0	86.7	146.7	260.0	4.4	
VEL=	5.3	1.3	1.8	1.7	3.6	5.2	3.7	1.0	
DEPTH=	7.7	.9	1.4	1.3	4.3	7.3	4.3	.7	

*SECNO 1.420
WATER EL=XS CARD= 1361.000

3265 DIVIDED FLOW

1.420	7.00	1361.00	.00	.00	1361.67	.67	.59	.08	1358.00
8400.0	4308.5	2457.7	1633.8	792.6	259.8	517.5	1577.3	372.1	1358.00
3.75	5.44	9.46	3.16	.020	.020	.020	.000	1354.00	9555.00
.001550	380.	407.	420.	0	0	0	.00	970.00	10785.00

1G714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.42 CWSEL= 1361.00

STA=	9555.	9745.	9760.	9790.	9810.	9930.	9970.	10010.	10060.	10195.	10315.	10420.	10785.
PER Q=	8.6	5.2	14.6	3.2	13.3	6.4	29.3	5.5	4.7	4.2	3.7	1.4	
AREA=	192.5	60.0	150.0	50.1	240.0	100.0	259.8	100.0	135.0	120.0	105.0	57.5	
VEL=	3.7	7.3	8.2	5.3	4.6	5.4	9.5	4.6	2.9	2.9	2.9	2.0	
DEPTH=	1.0	4.0	5.0	2.5	2.0	2.5	6.5	2.0	1.0	1.0	1.0	.2	

K/14PRINT

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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH         FLOODWAY        J.MISCHLER

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3.                                                          1284.69

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15.                 -1.
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KC14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

CCHV= .100 CEHV= .300
*SECNO 17.588
2800 NAT Q1= 5622.52 WSELK= 1283.69 ENC Q1= 5622.52 WSEL= 1284.69 RATIO= .0000
NAT Q1= 6698. RATIOS LOB, CH, ROB= .2409 .7347 .0244 WSEL= 1284.69

3470 ENCROACHMENT STATIONS= 9855.2 10193.0 TYPE= 4 TARGET= .161

17.588	15.09	1284.69	.00	1283.69	1285.08	.39	.00	.00	1278.10
15400.0	1964.8	13435.2	.0	646.6	2548.7	.0	.0	.0	1276.40
.00	3.04	5.27	.00	.040	.040	.000	.000	1269.60	9855.24
.000784	440.	496.	560.	0	0	0	.00	337.76	10193.00

*SECNO 17.662

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

3470 ENCROACHMENT STATIONS= 9900.0 10150.0 TYPE= 1 TARGET= 250.000

17.662	13.21	1284.81	.00	1283.82	1285.77	.96	.51	.17	1276.40
15400.0	2238.0	13039.2	122.7	318.6	1628.5	41.0	23.1	2.6	1281.60
.01	7.02	8.01	2.99	.040	.040	.040	.000	1271.60	9900.00
.002664	380.	391.	400.	2	0	0	.00	250.00	10150.00

*SECNO 17.783
2800 NAT Q1= 1848.70 WSELK= 1285.58 ENC Q1= 2096.47 WSEL= 1286.58 RATIO= -.1340
NAT Q1= 2292. RATIOS LOB, CH, ROB= .0251 .9148 .0601 WSEL= 1286.58

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

3470 ENCROACHMENT STATIONS= 9921.0 10064.0 TYPE= 4 TARGET= .085

17.783	10.97	1286.37	.00	1285.58	1288.65	2.28	2.49	.40	1280.50
15400.0	.0	15400.0	.0	.0	1271.4	.0	46.6	5.4	1281.10
.03	.00	12.11	.00	.000	.040	.000	.000	1275.40	9921.00
.006431	540.	639.	500.	2	0	0	.00	143.00	10064.00

K\14PRINT

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 17.932
 2800 NAT Q1=    1583.93  WSELK=    1290.98  ENC Q1=    1874.27  WSEL=    1291.98  RATIO=   -.1833
 NAT Q1=    1919.  RATIOS LOB, CH, ROB=    .0153   .9768   .0079  WSEL=    1291.98

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9956.0   10066.0  TYPE=      4  TARGET=         .023
    17.932     13.51   1291.41       .00   1290.98   1294.76      3.36      5.79       .32   1289.70
   15400.0        .0   15400.0        .0        .0    1047.0        .0      67.6       7.7   1290.20
       .04        .00     14.71       .00      .000      .040      .000      .000   1277.90   9956.00
   .008488      790.      787.      780.         2         0         0       .00    110.00  10066.00


CCHV=     .300 CEHV=     .500
*SECNO 18.042
 2800 NAT Q1=    2422.94  WSELK=    1294.31  ENC Q1=    2802.31  WSEL=    1295.31  RATIO=   -.1566
 NAT Q1=    2802.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1295.31

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48


3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=         .000
    18.042     12.13   1294.43       .00   1294.31   1298.17      3.74      3.22       .19   1357.40
   15400.0        .0   15400.0        .0        .0     992.5        .0      81.2       9.1   1307.40
       .05        .00     15.52       .00      .000      .025      .000      .000   1282.30   9951.60
   .003893      620.      581.      550.         2         0         0       .00     96.78  10048.38



SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00       .00     75.00      4.00   1059.00       .81   1280.20   1279.90

*SECNO 18.061
BTCARD, BRIDGE STENCL=    9951.00   STENCR=   10049.00
 2800 NAT Q1=    2933.00  WSELK=    1296.44  ENC Q1=    3334.23  WSEL=    1297.44  RATIO=   -.1368
 NAT Q1=    3334.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1297.44

3301 HV CHANGED MORE THAN HVINS
```

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.55	1299.06	1.10	0.	15400.	1059.	1060.	1293.20	1301.60	0.

3470 ENCROACHMENT STATIONS= 9951.0 10049.0 TYPE= 4 TARGET= .000

18.061	13.59	1296.69	.00	1296.44	1299.55	2.86	1.38	.00	1358.20
15400.0	.0	15400.0	.0	.0	1133.8	.0	83.6	9.3	1308.20
.06	.00	13.58	.00	.000	.025	.000	.000	1283.10	9951.53
.002582	101.	101.	101.	3	0	0	.00	96.91	10048.45

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.96

3470 ENCROACHMENT STATIONS= 9900.0 10085.0 TYPE= 1 TARGET= 185.000

18.081	18.51	1299.61	.00	1299.54	1300.32	.71	.13	.65	1286.60
15400.0	1220.6	12608.4	1571.0	308.4	1745.1	357.6	88.0	9.7	1284.90
.06	3.96	7.22	4.39	.035	.035	.035	.000	1281.10	9900.00
.000671	80.	106.	130.	3	0	0	.00	185.00	10085.00

CCHV= .100 CEHV= .300
*SECNO 18.174

3470 ENCROACHMENT STATIONS= 9857.0 10125.0 TYPE= 1 TARGET= 268.000

18.174	18.48	1300.18	.00	1300.22	1300.63	.45	.28	.03	1288.70
15400.0	1800.2	13116.1	483.8	472.7	2324.4	213.2	118.6	12.2	1294.60
.09	3.81	5.64	2.27	.035	.035	.035	.000	1281.70	9857.02
.000485	500.	491.	490.	2	0	0	.00	267.98	10125.00

*SECNO 18.269

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9882.2 10110.0 TYPE= 1 TARGET= 227.800

18.269	16.50	1300.30	.00	1300.17	1301.04	.74	.32	.09	1288.40
15400.0	2281.3	12415.2	703.5	452.7	1691.6	205.0	149.4	15.1	1292.40
.11	5.04	7.34	3.43	.035	.035	.035	.000	1283.80	9882.20
.000870	500.	502.	500.	2	0	0	.00	227.80	10110.00

*SECNO 18.362

3470 ENCROACHMENT STATIONS= 9895.6 10107.8 TYPE= 1 TARGET= 212.200

18.362	15.34	1300.64	.00	1300.54	1301.60	.95	.50	.06	1290.00
15400.0	1169.8	13188.3	1041.9	244.9	1597.1	244.2	174.5	17.6	1290.60
.12	4.78	8.26	4.27	.035	.035	.035	.000	1285.30	9895.60
.001186	490.	491.	510.	1	0	0	.00	212.20	10107.80

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9885.0 10140.0 TYPE= 1 TARGET= 255.000

18.445	17.86	1305.16	1305.16	1305.39	1307.61	2.45	.96	.45	1290.00
15400.0	5161.8	3904.3	6333.9	545.8	214.7	612.6	192.5	20.0	1290.00
.13	9.46	18.19	10.34	.035	.035	.035	.000	1287.30	9886.69
.004873	470.	440.	460.	20	8	0	.00	253.31	10140.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456
BTCARD, BRIDGE STENCL= 9885.00 STENCR= 10140.00

3301 HV CHANGED MORE THAN HVINS

K74PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.16	1308.91	1.29	15061.	350.	33.	33.	1294.20	1299.50	255.

3470 ENCROACHMENT STATIONS= 9885.0 10140.0 TYPE= 1 TARGET= 255.000

18.456	20.48	1308.18	.00	1307.31	1309.20	1.02	1.58	.00	1290.40
15400.0	5652.3	2922.6	6825.1	825.5	248.7	965.8	194.8	20.4	1290.40
.14	6.85	11.75	7.07	.035	.035	.035	.000	1287.70	9885.00
.001673	60.	60.	60.	3	0	7	.00	255.00	10140.00

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.13

3470 ENCROACHMENT STATIONS= 9881.4 10169.8 TYPE= 1 TARGET= 288.399

18.545	19.88	1309.18	.00	1308.28	1309.57	.40	.32	.06	1294.10
15400.0	1872.4	10972.6	2555.1	557.1	1952.7	782.2	223.2	23.3	1293.80
.16	3.36	5.62	3.27	.035	.035	.035	.000	1289.30	9881.40
.000367	440.	466.	480.	2	0	0	.00	288.40	10169.80

*SECNO 18.575

3470 ENCROACHMENT STATIONS= 9880.7 10170.8 TYPE= 1 TARGET= 290.100

18.575	19.99	1309.29	.00	1308.43	1309.64	.35	.06	.01	1291.50
15400.0	3672.1	3055.2	8672.7	912.0	535.2	1879.2	235.4	24.3	1289.70
.17	4.03	5.71	4.62	.035	.035	.035	.000	1289.30	9880.70
.000356	160.	160.	160.	2	0	0	.00	290.10	10170.80

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
BTCARD, BRIDGE STENCL= 9876.10 STENCR= 10177.20
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3108.92	1309.71	.07	15075.	340.	57.	56.	1295.40	1299.00	290.

3470 ENCROACHMENT STATIONS= 9876.1 10177.2 TYPE= 1 TARGET= 301.101

18.583	20.45	1309.85	.00	1309.50	1310.17	.32	.53	.00	1291.60
15400.0	3718.4	3008.4	8673.2	957.8	548.1	1963.0	238.5	24.6	1289.80
.17	3.88	5.49	4.42	.035	.035	.035	.000	1289.40	9876.10
.000319	40.	40.	40.	2	0	8	.00	301.10	10177.20

*SECNO 18.640

3470 ENCROACHMENT STATIONS= 9879.6 10134.7 TYPE= 1 TARGET= 255.101

18.640	19.58	1309.78	.00	1309.43	1310.38	.60	.13	.08	1294.60
15400.0	2398.6	9722.5	3278.9	539.3	1378.6	746.8	259.9	26.5	1293.40
.19	4.45	7.05	4.39	.035	.035	.035	.000	1290.20	9879.60
.000604	300.	301.	310.	2	0	0	.00	255.10	10134.70

*SECNO 18.734

3470 ENCROACHMENT STATIONS= 9883.2 10111.7 TYPE= 1 TARGET= 228.500

18.734	17.61	1310.01	.00	1309.68	1310.80	.79	.36	.06	1298.60
15400.0	1373.7	13375.5	650.8	322.1	1789.0	191.4	288.2	29.3	1300.80
.21	4.27	7.48	3.40	.035	.035	.035	.000	1292.40	9883.20
.000896	490.	496.	500.	0	0	0	.00	228.50	10111.70

*SECNO 18.832

3470 ENCROACHMENT STATIONS= 9891.8 10107.0 TYPE= 1 TARGET= 215.200

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
18.832	17.27	1310.47	.00	1310.19	1311.28	.81	.47	.01	1302.80
15400.0	473.4	12868.1	2058.4	148.3	1690.4	414.6	315.2	31.9	1297.10
.23	3.19	7.61	4.96	.035	.035	.035	.000	1293.20	9891.80
.000927	480.	517.	540.	2	0	0	.00	215.20	10107.00

*SECNO 18.925

3470 ENCROACHMENT STATIONS= 9887.7 10087.5 TYPE= 1 TARGET= 199.800

18.925	16.28	1310.88	.00	1310.64	1311.80	.92	.49	.03	1297.60
15400.0	1754.6	12703.7	941.7	361.2	1549.6	219.7	339.9	34.3	1300.00
.25	4.86	8.20	4.29	.035	.035	.035	.000	1294.60	9887.70
.001068	480.	491.	500.	2	0	0	.00	199.80	10087.50

*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

3470 ENCROACHMENT STATIONS= 9866.3 10038.5 TYPE= 1 TARGET= 172.200

19.018	13.51	1311.11	.00	1310.89	1312.82	1.72	.78	.24	1305.10
15400.0	530.4	14835.8	33.8	114.6	1389.8	12.5	360.4	36.3	1308.40
.26	4.63	10.67	2.71	.035	.035	.035	.000	1297.60	9866.30
.002667	460.	491.	520.	2	0	0	.00	172.20	10038.50

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9942.1 10061.9 TYPE= 1 TARGET= 119.801

19.117	14.09	1312.69	1312.69	1312.49	1316.84	4.15	2.03	.73	1302.90
15400.0	1458.7	11823.8	2117.5	154.8	663.1	205.5	375.6	38.1	1301.50
.27	9.42	17.83	10.31	.035	.035	.035	.000	1298.60	9942.10
.006160	490.	523.	560.	20	8	0	.00	119.80	10061.90

ICI4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

3470 ENCROACHMENT STATIONS= 9923.1 10081.0 TYPE= 1 TARGET= 157.900

19.210	16.89	1317.09	.00	1317.19	1318.95	1.85	1.88	.23	1312.00
15400.0	219.3	14970.3	210.4	55.2	1353.3	53.0	389.6	39.6	1312.00
.28	3.97	11.06	3.97	.035	.035	.035	.000	1300.20	9923.34
.002612	500.	491.	490.	3	0	0	.00	157.47	10080.81

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	1319.92	1324.04	4.12	1.67	1.14	1311.70
14600.0	.0	14600.0	.0	.0	895.9	.0	400.1	40.8	1311.70
.29	.00	16.30	.00	.000	.035	.000	.000	1311.70	9948.00
.008882	390.	386.	390.	20	11	0	.00	109.00	10057.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

14/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.96	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	1322.06	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	402.1	41.0	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

*SECNO 19.313
2800 NAT Q1= 2287.58 WSELK= 1323.31 ENC Q1= 2700.20 WSEL= 1324.31 RATIO= -.1804
NAT Q1= 2700. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1324.31

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9932.0 10112.0 TYPE= 4 TARGET= .000

19.313	11.60	1323.30	.00	1323.31	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.4	.0	404.2	41.3	1325.50
.29	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.35
.004078	75.	74.	75.	4	0	0	.00	159.64	10103.99

CCHV= .100 CEHV= .300
*SECNO 19.418
2800 NAT Q1= 2296.67 WSELK= 1325.59 ENC Q1= 2729.66 WSEL= 1326.59 RATIO= -.1885
NAT Q1= 2731. RATIOS LOB, CH, ROB= .0000 .9994 .0006 WSEL= 1326.59

3470 ENCROACHMENT STATIONS= 9948.0 10120.0 TYPE= 4 TARGET= .001

19.418	12.59	1325.59	.00	1325.59	1327.43	1.83	2.25	.00	1328.00
14600.0	.0	14600.0	.0	.0	1343.4	.0	421.2	43.3	1326.10
.31	.00	10.87	.00	.000	.035	.000	.000	1313.00	9955.11
.004041	570.	554.	530.	3	0	0	.00	162.69	10117.80

LV4+PRINT

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 19.560
 2800 NAT Q1=    2508.10  WSELK=    1328.21  ENC Q1=    2890.11  WSEL=    1329.21  RATIO=   -.1523
 NAT Q1=    2890.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1329.21

3470 ENCROACHMENT STATIONS=     9929.0   10065.0  TYPE=      4  TARGET=         .000
    19.560      12.61   1328.21       .00   1328.21   1330.15      1.93      2.69       .03   1329.70
   14600.0        .0   14600.0        .0        .0    1308.0        .0     443.4      45.8   1330.60
       .32       .00     11.16       .00      .000      .035      .000      .000   1315.60   9931.37
   .003382      730.      729.      720.         2         0         0       .00    129.63  10060.99


CCHV=     .300 CEHV=     .500
*SECNO 19.625
 2800 NAT Q1=    3892.33  WSELK=    1329.89  ENC Q1=    4433.23  WSEL=    1330.89  RATIO=   -.1390
 NAT Q1=    4433.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1330.89

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=         .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1332.00 ELREA=      1332.00

    19.625      12.35   1329.95       .00   1329.89   1330.87       .92       .42       .30   1317.60
    5700.0        .0    5700.0        .0        .0     741.2        .0     451.9      46.6   1317.60
       .34       .00      7.69       .00      .000      .015      .000      .000   1317.60   9965.00
   .000271      580.      364.       70.         3         0         0       .00     60.00  10025.00



SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00    100.00     60.00      2.00    564.00       .00   1318.60   1317.60

*SECNO 19.691
 2800 NAT Q1=    4235.58  WSELK=    1331.53  ENC Q1=    4792.54  WSEL=    1332.53  RATIO=   -.1315
 NAT Q1=    4793.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1332.53
PRESSURE FLOW
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14714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	HJ	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.43	1331.10	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3470 ENCROACHMENT STATIONS= 9965.0 10025.0 TYPE= 4 TARGET= .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	13.00	1331.60	.00	1331.53	1332.43	.83	1.56	.00	1318.60
5700.0	.0	5700.0	.0	.0	780.3	.0	458.0	47.0	1318.60
.35	.00	7.30	.00	.000	.015	.000	.000	1318.60	9965.00
.000231	330.	350.	430.	2	0	0	.00	60.00	10025.00

*SECNO 19.742

3470 ENCROACHMENT STATIONS= 9953.0 10038.0 TYPE= 1 TARGET= 85.000

19.742	12.93	1332.03	.00	1331.99	1332.57	.54	.05	.09	100000.00
5700.0	.0	5700.0	.0	.0	969.0	.0	463.4	47.5	100000.00
.36	.00	5.88	.00	.000	.015	.000	.000	1319.10	9953.00
.000167	80.	269.	470.	2	0	0	.00	85.00	10038.00

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

3470 ENCROACHMENT STATIONS= 9957.0 10043.0 TYPE= 1 TARGET= 86.000

19.847	13.34	1332.14	.00	1332.14	1332.81	.67	.20	.04	100000.00
5700.0	.0	5700.0	.0	.0	868.5	.0	475.1	48.6	100000.00
.39	.00	6.56	.00	.000	.035	.000	.000	1318.80	9957.00
.001291	570.	554.	520.	0	0	0	.00	86.00	10043.00

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

K/L 4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .37

3470 ENCROACHMENT STATIONS= 9958.0 10031.0 TYPE= 1 TARGET= 73.000

19.960	7.83	1332.43	.00	1332.37	1335.03	2.60	1.64	.58	1330.00
5700.0	.0	5700.0	.0	.0	440.5	.0	484.1	49.7	100000.00
.40	.00	12.94	.00	.000	.035	.000	.000	1324.60	9958.00
.009425	640.	597.	560.	2	0	0	.00	73.00	10031.00

CCHV= .300 CEHV= .500
*SECNO 19.974

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

3470 ENCROACHMENT STATIONS= 9969.0 10020.0 TYPE= 1 TARGET= 51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1336.00 ELREA= 1336.00

19.974	9.87	1333.67	.00	1333.31	1335.66	1.99	.45	.18	1323.80
5700.0	.0	5700.0	.0	.0	503.0	.0	484.9	49.8	100000.00
.40	.00	11.33	.00	.000	.035	.000	.000	1323.80	9969.00
.004262	105.	74.	65.	3	0	0	.00	51.00	10020.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	51.00	3.00	480.00	.00	1324.10	1323.80

*SECNO 19.986
BTCARD, BRIDGE STENCL= 9969.00 STENCR= 10020.00

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

1CT4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1337.08	1336.16	.79	0.	5700.	480.	480.	1334.10	1337.90	0.

3470 ENCROACHMENT STATIONS= 9969.0 10020.0 TYPE= 1 TARGET= 51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.92	1335.72	.00	1335.25	1337.08	1.37	1.42	.00	1323.80
5700.0	.0	5700.0	.0	.0	607.9	.0	485.7	49.8	100000.00
.40	.00	9.38	.00	.000	.035	.000	.000	1323.80	9969.00
.002370	61.	61.	61.	3	0	0	.00	51.00	10020.00

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 100000.00

20.049	11.10	1338.20	1338.20	1338.35	1341.96	3.76	1.48	1.20	100000.00
5700.0	.0	5700.0	.0	.0	366.4	.0	489.4	50.2	100000.00
.41	.00	15.56	.00	.000	.035	.000	.000	1327.10	9975.00
.011186	305.	333.	345.	20	11	0	.00	49.93	10024.93

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.73

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9972.0 10029.0 TYPE= 1 TARGET= 57.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.48	1343.38	.00	1343.48	1345.17	1.79	3.01	.20	100000.00
5700.0	.0	5671.1	28.9	.0	526.6	9.6	494.6	50.8	1340.80
.42	.00	10.77	3.02	.000	.035	.040	.000	1330.90	9972.00
.003733	490.	502.	500.	2	0	0	.00	57.00	10029.00

*SECNO 20.242

3470 ENCROACHMENT STATIONS= 9964.0 10035.0 TYPE= 1 TARGET= 71.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.21	1345.51	.00	1345.49	1347.16	1.65	1.98	.01	100000.00
5700.0	.0	5645.3	54.7	.0	545.7	15.7	501.1	51.6	1342.80
.44	.00	10.35	3.49	.000	.035	.040	.000	1333.30	9964.00
.003905	470.	517.	560.	3	0	0	.00	71.00	10035.00

*SECNO 20.335

3470 ENCROACHMENT STATIONS= 9963.0 10036.0 TYPE= 1 TARGET= 73.000

20.335	10.24	1347.54	.00	1347.44	1348.79	1.25	1.59	.04	100000.00
5700.0	.0	5672.0	28.0	.0	630.1	10.2	507.9	52.4	1344.00
.45	.00	9.00	2.76	.000	.035	.040	.000	1337.30	9963.00
.002739	510.	491.	470.	2	0	0	.00	73.00	10036.00

CCHV= .300 CEHV= .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1351.50 ELREA= 1351.50

20.347	10.22	1347.42	.00	1347.24	1349.28	1.86	.18	.30	1337.20
5700.0	.0	5700.0	.0	.0	521.2	.0	508.7	52.5	1337.20
.45	.00	10.94	.00	.000	.035	.000	.000	1337.20	9970.00
.002991	1.	63.	150.	2	0	0	.00	51.00	10021.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1349.79	1349.73	.68	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.98	1348.18	.00	1347.97	1349.79	1.61	.52	.00	1337.20
5700.0	.0	5700.0	.0	.0	560.2	.0	510.0	52.6	1337.20
.45	.00	10.17	.00	.000	.035	.000	.000	1337.20	9970.00
.002352	100.	100.	100.	3	0	0	.00	51.00	10021.00

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9958.0 10072.0 TYPE= 1 TARGET= 114.000

20.423	11.71	1349.71	.00	1349.57	1350.61	.91	.61	.21	1345.00
5700.0	107.1	5250.9	342.0	39.5	665.4	90.5	514.6	53.2	1344.30
.47	2.71	7.89	3.78	.040	.035	.040	.000	1338.00	9958.20
.001788	415.	301.	205.	3	0	0	.00	113.80	10072.00

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.97	1349.27	.00	1349.13	1351.22	1.95	.09	.52	1339.30
5700.0	.0	5700.0	.0	.0	508.8	.0	515.2	53.3	1339.30
.47	.00	11.20	.00	.000	.035	.000	.000	1339.30	9985.00
.003242	1.	37.	65.	2	0	0	.00	51.00	10036.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.77 BRIDGE VELOCITY= 12.54 CALCULATED CHANNEL AREA= 455.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.64	1351.71	.75	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.72	1350.02	.00	1349.92	1351.71	1.69	.49	.00	1339.30
5700.0	.0	5700.0	.0	.0	546.8	.0	516.0	53.3	1339.30
.47	.00	10.43	.00	.000	.035	.000	.000	1339.30	9985.00
.002550	70.	70.	70.	0	0	0	.00	51.00	10036.00

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9930.0 10069.0 TYPE= 1 TARGET= 139.000

20.529	9.24	1352.24	.00	1352.25	1353.01	.77	1.02	.28	1350.20
5700.0	79.8	5564.0	56.2	32.8	783.6	24.7	523.2	54.3	1350.40
.49	2.44	7.10	2.28	.040	.035	.040	.000	1343.00	9930.00
.002052	545.	449.	375.	3	0	0	.00	139.00	10069.00

CCHV= .100 CEHV= .300
*SECNO 20.628

3470 ENCROACHMENT STATIONS= 9935.0 10065.0 TYPE= 1 TARGET= 130.000

20.628	10.04	1353.34	.00	1353.31	1353.79	.45	.75	.03	100000.00
5700.0	.0	5700.0	.0	.0	1059.1	.0	534.6	55.9	100000.00
.51	.00	5.38	.00	.000	.035	.000	.000	1343.30	9935.00
.001054	530.	523.	520.	2	0	0	.00	130.00	10065.00

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9962.0 10026.0 TYPE= 1 TARGET= 64.000

20.725	8.74	1355.94	1355.94	1356.04	1359.12	3.18	1.26	.82	100000.00
5700.0	.0	5700.0	.0	.0	398.2	.0	543.2	57.1	100000.00
.52	.00	14.31	.00	.000	.035	.000	.000	1347.20	9962.00
.011046	510.	512.	520.	20	15	0	.00	64.00	10026.00

CCHV= .300 CEHV= .500
*SECNO 20.737
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1363.00 ELREA= 1363.00

20.737	7.30	1358.20	1358.20	1358.17	1361.84	3.64	.80	.23	1350.90
5700.0	.0	5700.0	.0	.0	372.1	.0	543.9	57.2	1350.90
.52	.00	15.32	.00	.000	.035	.000	.000	1350.90	9968.00
.009201	80.	80.	80.	20	11	0	.00	51.00	10019.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1356.93 , NOT 1358.20 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1351.00	1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	1360.60	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	544.6	57.3	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

*SECNO 20.819

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	1362.37	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.7	.0	548.5	57.8	1356.50
.53	.00	12.45	.00	.000	.035	.000	.000	1356.50	9965.00
.008131	375.	365.	345.	3	0	0	.00	78.00	10043.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

20.841	6.98	1364.38	.00	1364.38	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	549.9	58.0	1357.40
.54	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3470 ENCROACHMENT STATIONS= 9904.0 10060.0 TYPE= 1 TARGET= 156.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.64	1365.94	.00	1365.98	1366.67	.72	.29	.29	1365.30
5700.0	26.8	5673.2	.0	22.9	828.9	.0	551.5	58.3	100000.00
.54	1.17	6.84	.00	.040	.035	.000	.000	1356.30	9904.00
.002004	90.	100.	110.	3	0	0	.00	156.00	10060.00

CCHV= .100 CEHV= .300
*SECNO 20.942

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS= 9860.0 10110.0 TYPE= 1 TARGET= 250.000

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
20.942	7.63	1367.23	.00	1367.29	1367.96	.74	1.29	.00	100000.00
5700.0	.0	4745.2	954.8	.0	657.8	192.3	560.1	60.4	1366.50
.56	.00	7.21	4.97	.000	.035	.035	.000	1359.60	9860.00
.004787	530.	433.	490.	2	0	0	.00	250.00	10110.00

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9810.0 10060.0 TYPE= 1 TARGET= 250.000

21.036	7.98	1371.48	1371.48	1371.95	1373.10	1.62	2.89	.26	1370.70
5700.0	112.5	5545.8	41.7	52.9	536.0	19.5	568.4	63.2	1370.40
.57	2.13	10.35	2.14	.040	.035	.040	.000	1363.50	9810.00
.007272	490.	496.	490.	4	8	0	.00	250.00	10060.00

*SECNO 21.127

3470 ENCROACHMENT STATIONS= 9900.0 10060.0 TYPE= 1 TARGET= 160.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1374.00 ELREA= 100000.00

21.127	7.93	1374.63	1374.23	1374.75	1376.44	1.81	3.28	.06	1374.20
5700.0	130.2	5569.8	.0	53.9	510.7	.0	574.7	65.3	100000.00
.59	2.42	10.91	.00	.040	.035	.000	.000	1366.70	9900.00
.006491	400.	480.	500.	4	8	0	.00	160.00	10060.00

*SECNO 21.230

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9900.0 10125.0 TYPE= 1 TARGET= 225.000

21.230	8.37	1380.37	1380.37	1380.36	1381.88	1.52	3.89	.03	1379.30
5700.0	251.2	4277.1	1171.6	71.9	392.1	188.7	582.3	67.7	1380.60
.60	3.49	10.91	6.21	.040	.035	.040	.000	1372.00	9900.00
.008046	560.	544.	500.	2	8	0	.00	221.77	10125.00

KC14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 21.363
3280 CROSS SECTION 21.36 EXTENDED .59 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.26

3470 ENCROACHMENT STATIONS= 9930.0 10130.0 TYPE= 1 TARGET= 200.000

21.363	9.48	1383.58	.00	1383.37	1384.11	.53	2.12	.10	100000.00
5700.0	.0	5684.3	15.7	.0	973.2	13.0	595.5	70.9	1382.10
.63	.00	5.84	1.21	.000	.035	.040	.000	1374.10	9939.05
.001572	740.	702.	700.	3	0	0	.00	166.44	10105.49

*SECNO 21.484

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9852.0 10077.0 TYPE= 1 TARGET= 225.000

21.484	8.59	1387.09	1387.09	1386.53	1388.54	1.45	1.90	.28	1386.90
5700.0	967.4	4674.8	57.9	169.6	452.1	25.2	607.4	73.6	1386.50
.65	5.70	10.34	2.30	.040	.035	.040	.000	1378.50	9852.00
.007569	650.	639.	520.	20	10	0	.00	215.51	10077.00

*SECNO 21.576

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

HCS4PRINT

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9940.0   10165.0  TYPE=      1  TARGET=      225.000
    21.576      8.08   1390.18       .00   1389.24   1391.06       .88      2.46       .06   1390.00
    5700.0      16.5    4724.2     959.3      13.1     587.5     214.0     615.2      75.8   1388.30
       .67      1.25      8.04      4.48      .040      .035      .040      .000   1382.10   9940.00
   .003827      320.      486.      480.         2         0         0       .00    225.00  10165.00


*SECNO 21.669
3280 CROSS SECTION     21.67 EXTENDED       .59 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9890.0   10115.0  TYPE=      1  TARGET=      225.000
    21.669      9.89   1393.89   1393.89   1393.38   1395.24      1.35      2.45       .14   1393.80
    5500.0     629.5    3935.4     935.1     132.0     372.7     181.3     623.5      78.2   1392.00
       .69      4.77     10.56      5.16      .040      .035      .040      .000   1384.00   9890.00
   .007088      440.      491.      470.        20         9         0       .00    225.00  10115.00


*SECNO 21.742

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58


3470 ENCROACHMENT STATIONS=     9940.0   10140.0  TYPE=      1  TARGET=      200.000
    21.742      9.76   1396.16       .00   1395.18   1396.95       .79      1.66       .06   1394.70
    5500.0      87.3    5127.9     284.8      40.6     697.0      94.6     630.3      80.2   1394.20
       .70      2.15      7.36      3.01      .040      .035      .040      .000   1386.40   9940.00
   .002841      430.      385.      390.         2         0         0       .00    200.00  10140.00


*SECNO 21.840

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .69


3470 ENCROACHMENT STATIONS=     9900.0   10100.0  TYPE=      1  TARGET=      200.000
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14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
21.840	6.82	1397.92	.00	1398.04	1399.09	1.17	2.02	.11	1396.20
5500.0	625.7	4701.1	173.2	119.2	511.9	54.7	639.0	82.4	1397.00
.72	5.25	9.18	3.17	.040	.035	.040	.000	1391.10	9900.00
.005989	430.	517.	430.	2	0	0	.00	200.00	10100.00

*SECNO 21.895

3470 ENCROACHMENT STATIONS= 9830.0 10080.0 TYPE= 1 TARGET= 250.000

21.895	7.82	1399.72	.00	1399.67	1401.04	1.32	1.90	.05	1398.00
5500.0	1891.4	3424.0	184.5	333.8	314.5	54.1	643.8	83.9	1397.70
.73	5.67	10.89	3.41	.040	.035	.040	.000	1391.90	9834.63
.006875	330.	290.	220.	3	0	0	.00	245.37	10080.00

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.29

3470 ENCROACHMENT STATIONS= 9650.0 10070.0 TYPE= 1 TARGET= 420.000

21.933	4.68	1401.48	.00	1400.86	1401.69	.20	.53	.11	1398.00
5500.0	2120.4	3379.6	.0	708.6	857.3	.0	649.2	85.5	100000.00
.74	2.99	3.94	.00	.040	.035	.000	.000	1396.80	9650.00
.001314	210.	210.	210.	2	0	0	.00	420.00	10070.00

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

3470 ENCROACHMENT STATIONS= 9630.0 10051.0 TYPE= 1 TARGET= 421.000

21.953	7.20	1401.20	.00	1401.06	1402.09	.89	.20	.21	1400.20
5500.0	2410.7	2933.1	156.2	454.9	321.8	35.3	651.3	86.1	1398.30
.75	5.30	9.11	4.43	.045	.045	.045	.000	1394.00	9630.00
.008342	75.	74.	75.	3	0	0	.00	310.27	10051.00

HCI 4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.065

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3470 ENCROACHMENT STATIONS= 9620.0 10030.0 TYPE= 1 TARGET= 410.000

22.065	8.68	1404.48	.00	1404.08	1404.84	.36	2.69	.05	1404.10
5500.0	3697.1	1792.4	10.5	839.8	320.8	4.9	662.3	89.9	1402.00
.78	4.40	5.59	2.16	.045	.045	.045	.000	1395.80	9620.00
.003732	430.	591.	630.	3	0	0	.00	396.88	10030.00

*SECNO 22.165

3265 DIVIDED FLOW

3280 CROSS SECTION 22.17 EXTENDED .36 FEET

3470 ENCROACHMENT STATIONS= 9620.0 10020.0 TYPE= 1 TARGET= 400.000

22.165	11.06	1406.06	.00	1405.25	1406.42	.36	1.58	.00	1400.90
5500.0	3632.3	1859.8	8.0	953.4	294.5	4.6	677.0	94.6	1403.70
.81	3.81	6.31	1.73	.045	.045	.045	.000	1395.00	9620.00
.002451	530.	528.	530.	3	0	0	.00	381.09	10020.00

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 9650.0 10027.0 TYPE= 1 TARGET= 377.000

22.273	8.21	1407.61	.00	1406.66	1408.32	.72	1.80	.11	1404.10
5500.0	1439.3	4060.7	.0	336.1	542.6	.0	689.5	98.4	100000.00
.83	4.28	7.48	.00	.045	.045	.000	.000	1399.40	9650.00
.005127	470.	570.	580.	2	0	0	.00	292.44	10027.00

KCI4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9860.0 10040.0 TYPE= 1 TARGET= 180.000

22.410	10.09	1414.09	1414.09	1414.22	1416.01	1.92	4.99	.36	1410.70
5500.0	717.5	4672.2	110.3	142.7	393.2	23.9	701.5	102.2	1411.30
.85	5.03	11.88	4.63	.045	.045	.045	.000	1404.00	9860.00
.009664	750.	723.	630.	5	11	0	.00	159.26	10040.00

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.12

3470 ENCROACHMENT STATIONS= 9890.0 10050.0 TYPE= 1 TARGET= 160.000

22.483	11.24	1416.74	.00	1416.46	1417.04	.30	.87	.16	1411.10
5500.0	505.1	4994.9	.0	194.8	1098.2	.0	709.7	103.6	100000.00
.87	2.59	4.55	.00	.045	.045	.000	.000	1405.50	9890.00
.000990	380.	385.	390.	3	0	0	.00	160.00	10050.00

*SECNO 22.578

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .56

3470 ENCROACHMENT STATIONS= 9968.0 10064.0 TYPE= 1 TARGET= 96.000

22.578	10.52	1417.22	.00	1416.34	1418.01	.79	.82	.15	1416.60
5500.0	.0	5500.0	.0	.0	772.8	.0	721.7	105.1	100000.00
.89	.00	7.12	.00	.000	.045	.000	.000	1406.70	9968.00
.003142	540.	502.	490.	3	0	0	.00	96.00	10064.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.68

3470 ENCROACHMENT STATIONS= 9830.0 10028.0 TYPE= 1 TARGET= 198.000

22.675	9.02	1418.72	.00	1418.01	1418.96	.24	.89	.05	100000.00
5500.0	.0	5500.0	.0	.0	1407.4	.0	734.5	106.9	100000.00
.93	.00	3.91	.00	.000	.045	.000	.000	1409.70	9830.00
.001107	570.	512.	480.	2	0	0	.00	198.00	10028.00

*SECNO 22.794

3470 ENCROACHMENT STATIONS= 9977.0 10160.0 TYPE= 1 TARGET= 183.000

22.794	8.80	1419.50	.00	1418.55	1419.84	.34	.85	.03	1417.80
5500.0	9.5	5490.5	.0	6.8	1168.8	.0	753.1	109.6	100000.00
.97	1.38	4.70	.00	.045	.045	.000	.000	1410.70	9977.00
.001709	460.	628.	500.	2	0	0	.00	183.00	10160.00

*SECNO 22.880

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

3470 ENCROACHMENT STATIONS= 9951.0 10120.0 TYPE= 1 TARGET= 169.000

22.880	7.53	1420.53	.00	1420.05	1421.31	.78	1.34	.13	100000.00
5500.0	.0	5500.0	.0	.0	775.9	.0	763.3	111.4	100000.00
.98	.00	7.09	.00	.000	.045	.000	.000	1413.00	9951.00
.006285	440.	454.	480.	2	0	0	.00	169.00	10120.00

*SECNO 22.990

3470 ENCROACHMENT STATIONS= 9890.0 10026.0 TYPE= 1 TARGET= 136.000

22.990	6.73	1424.63	.00	1423.63	1425.77	1.14	4.35	.11	100000.00
5500.0	.0	5500.0	.0	.0	642.8	.0	772.7	113.5	100000.00
1.00	.00	8.56	.00	.000	.045	.000	.000	1417.90	9890.00
.009071	480.	581.	530.	2	0	0	.00	136.00	10026.00

1X74PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 23.097

3470 ENCROACHMENT STATIONS= 9958.0 10090.0 TYPE= 1 TARGET= 132.000

23.097	5.50	1430.60	.00	1429.89	1432.09	1.50	6.22	.11	100000.00
5500.0	.0	5500.0	.0	.0	560.5	.0	780.5	115.2	100000.00
1.02	.00	9.81	.00	.000	.045	.000	.000	1425.10	9958.00
.013626	640.	565.	490.	3	0	0	.00	132.00	10090.00

*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.05

23.168	4.42	1433.32	.00	1433.05	1433.46	.14	1.23	.14	1429.50
5500.0	814.2	4351.3	334.5	359.3	1361.4	171.0	790.7	118.3	1430.30
1.05	2.27	3.20	1.96	.045	.045	.045	.000	1428.90	9592.72
.001467	330.	375.	300.	3	0	0	.00	628.93	10221.65

*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

23.253	9.31	1434.51	1434.51	1434.53	1437.36	2.85	1.24	.81	1437.50
3400.0	.0	3400.0	.0	.0	250.8	.0	802.1	121.8	1444.20
1.06	.00	13.56	.00	.000	.040	.000	.000	1425.20	9978.49
.015114	470.	459.	450.	20	17	0	.00	44.65	10023.14

*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.334	7.81	1440.41	.00	1440.39	1441.84	1.43	4.33	.14	1443.80
3400.0	.0	3400.0	.0	.0	354.7	.0	805.0	122.4	1449.80
1.07	.00	9.59	.00	.000	.040	.000	.000	1432.60	9969.03
.007580	400.	417.	420.	2	0	0	.00	66.98	10036.01

14/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 23.416									
23.416	7.32	1443.82	.00	1443.82	1445.60	1.77	3.66	.10	1447.80
3400.0	.0	3400.0	.0	.0	318.0	.0	808.3	123.0	1450.20
1.09	.00	10.69	.00	.000	.040	.000	.000	1436.50	9980.94
.009462	400.	433.	430.	3	0	0	.00	59.12	10040.06
*SECNO 23.514									
23.514	8.51	1448.11	.00	1448.11	1449.46	1.35	3.82	.04	1451.40
3400.0	.0	3400.0	.0	.0	364.9	.0	812.4	123.7	1451.10
1.10	.00	9.32	.00	.000	.040	.000	.000	1439.60	9977.54
.005933	560.	517.	470.	2	0	0	.00	57.48	10035.01
*SECNO 23.544									
3301 HV CHANGED MORE THAN HVINS									
23.544	7.51	1448.91	.00	1448.91	1450.79	1.87	1.17	.16	1453.20
3400.0	.0	3400.0	.0	.0	309.4	.0	813.6	123.9	1452.90
1.10	.00	10.99	.00	.000	.040	.000	.000	1441.40	9978.90
.009548	190.	158.	150.	2	0	0	.00	54.80	10033.70

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.95

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.58	2.80	3249.	152.	14.	14.	1445.00	1449.00	140.

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	1452.64	1453.37	.74	2.58	.00	1453.80
3400.0	.0	3400.0	.0	.0	493.8	.0	814.1	124.0	1453.50
1.11	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

*SECNO 23.591

3280 CROSS SECTION 23.59 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.95	1453.15	.00	1453.15	1453.93	.78	.54	.01	1452.90
3400.0	.0	3400.0	.0	.0	478.5	.0	816.3	124.3	1453.80
1.11	.00	7.11	.00	.000	.040	.000	.000	1444.20	9968.00
.003292	100.	190.	210.	3	0	0	.00	75.49	10043.49

*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.75	1455.15	.00	1455.15	1456.48	1.33	2.39	.16	1457.60
3400.0	.0	3400.0	.0	.0	367.9	.0	821.4	125.1	1455.30
1.13	.00	9.24	.00	.000	.040	.000	.000	1446.40	9970.39
.006585	510.	528.	540.	2	0	0	.00	65.33	10035.72

*SECNO 23.815

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.815	9.31	1459.01	.00	1459.01	1460.09	1.08	3.59	.02	1458.90
4350.0	.0	4350.0	.0	.0	520.9	.0	828.1	126.3	1457.80
1.15	.00	8.35	.00	.000	.040	.000	.000	1449.70	9951.00
.004797	650.	655.	680.	3	0	0	.00	86.00	10037.00

1471PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 23.912
3280 CROSS SECTION 23.91 EXTENDED .14 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.912	13.14	1461.04	.00	1461.04	1462.18	1.14	2.07	.02	1461.30
5300.0	.0	5300.0	.0	.0	619.1	.0	834.8	127.2	1460.90
1.17	.00	8.56	.00	.000	.040	.000	.000	1447.90	9967.41
.003558	480.	512.	510.	3	0	0	.00	75.59	10043.00

*SECNO 23.989

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.989	12.91	1462.61	.00	1462.61	1463.23	.63	1.00	.05	1465.60
5300.0	.0	5300.0	.0	.0	835.0	.0	841.6	128.0	1465.80
1.19	.00	6.35	.00	.000	.040	.000	.000	1449.70	9944.77
.001801	400.	407.	410.	2	0	0	.00	98.91	10043.68

CCHV= .300 CEHV= .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1463.70 ELREA= 1463.70

24.086	9.84	1463.44	.00	1463.44	1464.31	.87	.95	.12	1453.60
5300.0	.0	5300.0	.0	.0	708.4	.0	850.6	129.0	1453.60
1.21	.00	7.48	.00	.000	.040	.000	.000	1453.60	9972.00
.001924	450.	512.	560.	4	0	0	.00	72.00	10044.00

14/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	71.60	3.00	590.00	.00	1453.60	1453.60

*SECNO 24.096
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1465.39	1464.37	.08	0.	5300.	590.	590.	1462.20	1466.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1466.00 ELREA= 1466.00

24.096	11.11	1464.71	.00	1464.71	1465.39	.68	1.09	.00	1453.60
5300.0	.0	5300.0	.0	.0	800.4	.0	851.6	129.1	1453.60
1.21	.00	6.62	.00	.000	.040	.000	.000	1453.60	9972.00
.001280	56.	56.	56.	2	0	0	.00	72.00	10044.00

*SECNO 24.106

3470 ENCROACHMENT STATIONS= 9955.0 10055.0 TYPE= 1 TARGET= 100.000

24.106	10.80	1465.00	.00	1465.21	1465.52	.51	.07	.05	1464.10
5300.0	.0	5300.0	.0	.0	922.0	.0	852.6	129.2	100000.00
1.21	.00	5.75	.00	.000	.040	.000	.000	1454.20	9955.00
.001433	80.	53.	20.	2	0	0	.00	100.00	10055.00

CCHV= .100 CEHV= .300
*SECNO 24.195

3470 ENCROACHMENT STATIONS= 9950.0 10050.0 TYPE= 1 TARGET= 100.000

24.195	12.08	1465.68	.00	1465.69	1466.01	.34	.48	.02	100000.00
5300.0	.0	5300.0	.0	.0	1134.9	.0	863.7	130.3	100000.00
1.24	.00	4.67	.00	.000	.040	.000	.000	1453.60	9950.00
.000766	470.	470.	460.	2	0	0	.00	100.00	10050.00

*SECNO 24.322

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

3470 ENCROACHMENT STATIONS= 9940.0 10080.0 TYPE= 1 TARGET= 140.000

24.322	14.57	1466.17	.00	1465.91	1466.31	.15	.28	.02	100000.00
5300.0	.0	5067.6	232.4	.0	1628.2	148.2	886.1	132.2	1456.80
1.30	.00	3.11	1.57	.000	.040	.050	.000	1451.60	9940.00
.000262	640.	671.	630.	2	0	0	.00	140.00	10080.00

*SECNO 24.444

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .43

3470 ENCROACHMENT STATIONS= 9927.0 10080.0 TYPE= 1 TARGET= 153.000

24.444	9.07	1466.37	.00	1465.95	1466.70	.33	.33	.06	1465.00
5300.0	.9	5299.1	.0	1.1	1142.9	.0	907.6	134.3	100000.00
1.34	.84	4.64	.00	.045	.045	.000	.000	1457.30	9927.00
.001443	640.	644.	600.	2	0	0	.00	153.00	10080.00

*SECNO 24.542

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .44

3470 ENCROACHMENT STATIONS= 9950.0 10160.0 TYPE= 1 TARGET= 210.000

24.542	7.51	1467.31	.00	1466.33	1468.35	1.04	1.44	.21	100000.00
5300.0	.0	5300.0	.0	.0	647.3	.0	918.2	136.0	100000.00
1.36	.00	8.19	.00	.000	.045	.000	.000	1459.80	9950.00
.007420	470.	517.	530.	3	0	0	.00	121.98	10160.00

*SECNO 24.635

1<4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

3470 ENCROACHMENT STATIONS= 9940.0 10060.0 TYPE= 1 TARGET= 120.000

24.635	5.26	1472.06	1471.86	1472.05	1473.84	1.79	5.27	.22	100000.00
5300.0	.0	5300.0	.0	.0	494.0	.0	924.7	137.3	100000.00
1.37	.00	10.73	.00	.000	.045	.000	.000	1466.80	9940.00
.016891	650.	491.	220.	6	14	0	.00	120.00	10060.00

*SECNO 24.738

3265 DIVIDED FLOW

3280 CROSS SECTION 24.74 EXTENDED .20 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.96

3470 ENCROACHMENT STATIONS= 9936.0 10200.0 TYPE= 1 TARGET= 264.000

24.738	5.80	1477.80	.00	1476.89	1478.28	.48	4.30	.13	100000.00
5200.0	.0	2288.8	2911.2	.0	409.9	524.7	934.1	139.6	1480.90
1.40	.00	5.58	5.55	.000	.045	.045	.000	1472.00	9936.00
.004242	350.	544.	630.	3	0	0	.00	225.20	10200.00

*SECNO 24.838

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .55

3470 ENCROACHMENT STATIONS= 9968.0 10350.0 TYPE= 1 TARGET= 382.000

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
24.838	6.28	1480.98	.00	1480.33	1481.73	.75	3.37	.08	100000.00
5200.0	.0	1515.0	3685.0	.0	170.8	616.1	943.5	142.8	1483.50
1.42	.00	8.87	5.98	.000	.045	.045	.000	1474.70	9968.00
.013920	470.	528.	450.	3	0	0	.00	370.28	10350.00

*SECNO 24.943

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.35

3470 ENCROACHMENT STATIONS= 9860.0 10300.0 TYPE= 1 TARGET= 440.000

24.943	6.66	1484.36	.00	1483.44	1484.58	.22	2.79	.05	1481.80
5200.0	1224.1	735.7	3240.2	361.1	162.1	887.6	957.7	148.0	1484.80
1.46	3.39	4.54	3.65	.045	.045	.045	.000	1477.70	9860.00
.002529	530.	554.	570.	1	0	0	.00	433.65	10300.00

*SECNO 25.048

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9850.0 10250.0 TYPE= 1 TARGET= 400.000

25.048	3.93	1487.63	1487.63	1487.27	1488.57	.94	3.07	.22	1486.60
5200.0	1208.5	870.3	3121.2	181.3	98.5	396.4	970.6	153.0	1493.60
1.48	6.67	8.84	7.87	.045	.045	.045	.000	1483.70	9850.00
.022755	580.	554.	520.	20	14	0	.00	369.90	10250.00

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.163

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

3470 ENCROACHMENT STATIONS= 9940.0 10175.0 TYPE= 1 TARGET= 235.000

25.163	7.08	1493.08	.00	1492.19	1493.53	.45	4.91	.05	1491.60
4900.0	360.3	1584.9	2954.8	89.1	264.8	573.5	981.6	157.1	1493.10
1.51	4.04	5.98	5.15	.045	.045	.045	.000	1486.00	9940.00
.004072	640.	607.	580.	6	0	0	.00	234.87	10175.00

*SECNO 25.262

3280 CROSS SECTION 25.26 EXTENDED 1.05 FEET

3470 ENCROACHMENT STATIONS= 9750.0 10023.0 TYPE= 1 TARGET= 273.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1491.60 ELREA= 1510.00

25.262	11.04	1495.04	.00	1494.01	1495.36	.32	1.82	.01	1491.60
4900.0	3562.1	1337.9	.0	783.5	298.1	.0	993.4	160.1	100000.00
1.54	4.55	4.49	.00	.045	.045	.000	.000	1484.00	9750.00
.003091	470.	523.	570.	4	0	0	.00	273.00	10023.00

*SECNO 25.374

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9925.0 10023.0 TYPE= 1 TARGET= 98.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1499.30 ELREA= 100000.00

25.374	6.87	1500.17	1500.17	1499.37	1502.33	2.16	3.90	.55	1499.30
4900.0	1342.9	3557.1	.0	145.4	281.4	.0	1004.6	162.9	100000.00
1.56	9.23	12.64	.00	.045	.045	.000	.000	1493.30	9925.00
.017615	680.	591.	300.	20	23	0	.00	98.00	10023.00

IC74PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.434

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9970.0 10036.0 TYPE= 1 TARGET= 66.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1504.90 ELREA= 100000.00

25.434	8.37	1504.17	1504.09	1503.97	1506.91	2.75	4.41	.17	100000.00
4900.0	.0	4900.0	.0	.0	368.4	.0	1007.6	163.5	100000.00
1.56	.00	13.30	.00	.000	.035	.000	.000	1495.80	9970.00
.010572	400.	317.	190.	6	11	0	.00	66.00	10036.00

*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.36

3470 ENCROACHMENT STATIONS= 9970.0 10050.0 TYPE= 1 TARGET= 80.000

25.500	9.95	1507.65	.00	1507.74	1508.42	.77	1.31	.20	100000.00
4900.0	.0	4900.0	.0	.0	698.0	.0	1011.9	164.1	100000.00
1.58	.00	7.02	.00	.000	.035	.000	.000	1497.70	9970.00
.001894	250.	349.	420.	3	0	0	.00	80.00	10050.00

CCHV= .300 CEHV= .500
*SECNO 25.523

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

3470 ENCROACHMENT STATIONS= 9960.0 10040.0 TYPE= 1 TARGET= 80.000

25.523	12.20	1508.20	.00	1507.99	1508.63	.43	.12	.10	1498.00
4900.0	38.7	4806.1	55.2	30.6	900.8	30.6	1014.2	164.3	1498.00
1.58	1.26	5.34	1.80	.050	.035	.035	.000	1496.00	9960.00
.000589	120.	121.	120.	2	0	0	.00	80.00	10040.00

1C71 4PRINT

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    25.534      5.22   1510.76   1510.76   1510.75   1513.36      2.60       .06      1.08   1515.00
    4900.0       .0    4900.0       .0        .0     378.4        .0    1015.1     164.4   1515.00
      1.58      .00     12.95       .00      .000      .015      .000      .000   1505.54   9963.45
   .002242      58.       58.       58.        20        14         0       .00     73.10  10036.55


*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
    25.551      6.67   1512.21   1510.75   1512.21   1513.80      1.58       .13       .31   1515.00
    4900.0       .0    4900.0       .0        .0     485.0        .0    1016.0     164.6   1515.00
      1.59      .00     10.10       .00      .000      .015      .000      .000   1505.54   9963.29
   .001026      90.       90.       90.        25         5         0       .00     73.41  10036.71


*SECNO 25.557
    25.557      6.53   1512.07       .00   1512.08   1514.01      1.94       .04       .18   1515.00
    4900.0       .0    4900.0       .0        .0     438.7        .0    1016.3     164.7   1515.00
      1.59      .00     11.17       .00      .000      .015      .000      .000   1505.54   9959.87
   .001387      32.       32.       32.         2         0         0       .00     80.25  10040.13


*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9949.0   10050.0  TYPE=      1  TARGET=      101.000
    25.561      8.72   1514.32       .00   1514.36   1514.54       .23       .02       .51 100000.00
    2900.0       .0    2900.0       .0        .0     759.6        .0    1016.6     164.7 100000.00
      1.59      .00      3.82       .00      .000      .035      .000      .000   1505.60   9949.44
   .000612      20.       21.       20.         3         0         0       .00    100.55  10050.00
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K&T 4PRINT

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .100 CEHV=     .300
*SECNO 25.680

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .49


3470 ENCROACHMENT STATIONS=     9950.0   10050.0  TYPE=      1  TARGET=      100.000
    25.680      8.30   1514.80       .00   1514.74   1515.26       .45       .64       .07 100000.00
    2700.0        .0    2700.0        .0        .0     499.5        .0    1025.7     166.1 100000.00
      1.62       .00      5.41       .00      .000      .035      .000      .000   1506.50   9950.00
   .002179      580.      628.      660.         2         0         0       .00    100.00  10050.00


*SECNO 25.786

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .44


3470 ENCROACHMENT STATIONS=     9982.0   10082.0  TYPE=      1  TARGET=      100.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1518.90 ELREA=      1515.80

    25.786      5.65   1516.35   1516.23   1516.32   1517.71      1.36      2.18       .27 100000.00
    2500.0        .0    2454.1      45.9        .0     260.1      15.6    1030.7     167.4   1515.80
      1.64       .00      9.43      2.93      .000      .035      .035      .000   1510.70   9982.00
   .009706      600.      560.      470.         6        14         0       .00    100.00  10082.00


*SECNO 25.947

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.57


3470 ENCROACHMENT STATIONS=     9959.0   10059.0  TYPE=      1  TARGET=      100.000
    25.947      7.46   1521.86       .00   1521.07   1522.40       .54      4.61       .08 100000.00
    2300.0        .0    2300.0        .0        .0     388.3        .0    1037.1     169.3 100000.00
      1.68       .00      5.92       .00      .000      .035      .000      .000   1514.40   9959.00
   .003343      870.      850.      830.         3         0         0       .00    100.00  10059.00
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K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 26.058

3470 ENCROACHMENT STATIONS= 9950.0 10023.0 TYPE= 1 TARGET= 73.000

26.058	7.63	1523.83	.00	1523.49	1524.65	.82	2.16	.08	1522.00
2200.0	173.5	2026.5	.0	37.7	271.4	.0	1041.8	170.5	100000.00
1.70	4.60	7.47	.00	.035	.035	.000	.000	1516.20	9950.00
.004141	540.	586.	570.	3	0	0	.00	73.00	10023.00

*SECNO 26.152

3470 ENCROACHMENT STATIONS= 9970.0 10040.0 TYPE= 1 TARGET= 70.000

26.152	5.70	1525.70	.00	1524.99	1526.20	.50	1.52	.03	100000.00
2000.0	.0	2000.0	.0	.0	351.9	.0	1045.5	171.3	100000.00
1.72	.00	5.68	.00	.000	.035	.000	.000	1520.00	9970.00
.002376	240.	496.	550.	2	0	0	.00	70.00	10040.00

*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9973.0 10060.0 TYPE= 1 TARGET= 87.000

26.265	6.08	1528.08	1528.08	1528.15	1529.38	1.30	2.54	.24	100000.00
1900.0	.0	1760.7	139.3	.0	186.6	32.1	1049.4	172.3	1526.50
1.74	.00	9.44	4.34	.000	.035	.035	.000	1522.00	9973.34
.010164	580.	597.	610.	0	8	0	.00	86.66	10060.00

*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.05

3470 ENCROACHMENT STATIONS= 9967.0 10064.0 TYPE= 1 TARGET= 97.000

26.372	7.57	1531.37	.00	1531.35	1531.69	.32	2.21	.10	100000.00
1700.0	.0	1700.0	.0	.0	374.4	.0	1053.2	173.5	100000.00
1.78	.00	4.54	.00	.000	.035	.000	.000	1523.80	9967.05
.001937	600.	565.	510.	3	0	0	.00	96.95	10064.00

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 26.492

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

3470 ENCROACHMENT STATIONS= 9955.0 10045.0 TYPE= 1 TARGET= 90.000

26.492	6.49	1532.19	.00	1532.15	1532.34	.15	.64	.02	100000.00
1600.0	.0	1600.0	.0	.0	511.4	.0	1059.7	174.9	100000.00
1.83	.00	3.13	.00	.000	.035	.000	.000	1525.70	9955.00
.000602	640.	634.	610.	3	0	0	.00	90.00	10045.00

*SECNO 26.582

3470 ENCROACHMENT STATIONS= 9945.0 10025.0 TYPE= 1 TARGET= 80.000

26.582	8.33	1532.43	.00	1532.24	1532.52	.09	.17	.01	100000.00
1300.0	.0	1300.0	.0	.0	544.1	.0	1065.4	175.8	100000.00
1.89	.00	2.39	.00	.000	.030	.000	.000	1524.10	9945.00
.000221	460.	475.	480.	2	0	0	.00	80.00	10025.00

*SECNO 26.673

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9970.0 10030.0 TYPE= 1 TARGET= 60.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1535.00 ELREA= 100000.00

26.673	3.14	1534.94	1534.94	1533.98	1536.17	1.23	.32	.34	100000.00
1300.0	.0	1300.0	.0	.0	146.0	.0	1069.2	176.6	100000.00
1.90	.00	8.91	.00	.000	.030	.000	.000	1531.80	9970.00
.010965	510.	480.	460.	20	18	0	.00	60.00	10030.00

*SECNO 26.784
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9981.0 10031.0 TYPE= 1 TARGET= 50.000

26.784	3.55	1546.25	1546.25	1546.18	1547.49	1.24	6.31	.00	100000.00
1100.0	.0	1100.0	.0	.0	123.1	.0	1071.0	177.3	100000.00
1.92	.00	8.94	.00	.000	.030	.000	.000	1542.70	9981.00
.010542	590.	586.	530.	13	8	0	.00	50.00	10031.00

*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 5.95

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

26.883	7.82	1547.92	.00	1547.31	1548.02	.10	.42	.11	100000.00
1000.0	.0	1000.0	.0	.0	391.3	.0	1074.1	177.9	100000.00
1.98	.00	2.56	.00	.000	.030	.000	.000	1540.10	9975.00
.000246	530.	523.	500.	3	0	0	.00	50.00	10025.00

*SECNO 26.984

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .56

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

26.984	7.57	1548.07	.00	1547.31	1548.24	.17	.20	.02	100000.00
900.0	.0	900.0	.0	.0	273.3	.0	1078.2	178.5	100000.00
2.02	.00	3.29	.00	.000	.030	.000	.000	1540.50	9975.00
.000645	480.	533.	460.	2	0	0	.00	50.00	10025.00

*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

K/14PRINT

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9883.7   10013.1  TYPE=      1  TARGET=      129.399

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=    100000.00

    27.060      5.35   1559.45   1559.45   1559.46   1561.02      1.57       .66       .42   1560.80
     900.0        .0     900.0        .0        .0      89.6        .0    1079.8     178.9 100000.00
      2.03       .00     10.05       .00      .000      .030      .000      .000   1554.10   9983.69
   .010211       270.      401.      470.        20        19         0       .00     29.41  10013.10


*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.66


3470 ENCROACHMENT STATIONS=     9881.1   10020.0  TYPE=      1  TARGET=      138.900

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=      1565.00

    27.166      6.98   1562.18       .00   1562.18   1562.35       .17      1.19       .14   1564.20
     600.0        .0     600.0        .0        .0     181.6        .0    1081.6     179.3 100000.00
      2.08       .00      3.30       .00      .000      .030      .000      .000   1555.20   9981.03
   .000642       560.      560.      560.         3         0         0       .00     38.97  10020.00


*SECNO 27.294

3470 ENCROACHMENT STATIONS=     9972.0   10022.2  TYPE=      1  TARGET=       50.200
    27.294      6.54   1562.54       .00   1562.54   1562.59       .05       .23       .01 100000.00
     400.0        .0     400.0        .0        .0     232.9        .0    1084.8     180.0 100000.00
      2.19       .00      1.72       .00      .000      .030      .000      .000   1556.00   9972.01
   .000167       710.      676.      630.         3         0         0       .00     50.19  10022.20


CCHV=     .100 CEHV=     .300
*SECNO -19.560
START TRIB COMP
    -19.560    19.560  1328.212
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1<1/4PRINT

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9921.4   10061.0  TYPE=      1  TARGET=      139.630
   -19.560     12.61   1328.21       .00   1328.21   1330.15      1.93       .00       .00   1329.70
   14600.0       .0   14600.0       .0        .0    1307.9        .0    1097.7     181.5 100000.00
      2.21       .00     11.16       .00      .000      .035      .000      .000   1315.60   9931.37
   .003382      730.      729.      720.         0         0         0       .00    129.62  10060.99


*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.6   10073.1  TYPE=      1  TARGET=      130.540
      .029      9.83   1329.43   1329.43   1329.35   1332.59      3.16      1.09       .37 100000.00
    9500.0        .0    9473.7      26.3        .0     662.9      19.7    1107.5     182.8   1328.20
      2.22       .00     14.29      1.34      .000      .015      .035      .000   1319.60   9942.56
   .001749      380.      430.      450.        20        15         0       .00    130.54  10073.10


*SECNO  .112

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.44


3470 ENCROACHMENT STATIONS=     9905.0   10092.0  TYPE=      1  TARGET=      187.000
      .112     11.38   1332.88       .00   1332.94   1333.42       .55       .57       .26 100000.00
    9500.0        .0    9500.0       .0        .0    1603.5        .0    1120.2     184.6 100000.00
      2.24       .00      5.92       .00      .000      .030      .000      .000   1321.50   9905.00
   .000847      430.      483.      450.         3         0         0       .00    187.00  10092.00


*SECNO  .198

3470 ENCROACHMENT STATIONS=     9910.0   10110.0  TYPE=      1  TARGET=      200.000
      .198      9.46   1333.26       .00   1333.31   1333.92       .66       .46       .03 100000.00
    9500.0        .0    9500.0       .0        .0    1458.9        .0    1136.2     186.6 100000.00
      2.26       .00      6.51       .00      .000      .030      .000      .000   1323.80   9910.00
   .001257      460.      454.      420.         2         0         0       .00    200.00  10110.00
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14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9903.0 10054.0 TYPE= 1 TARGET= 151.000

.288	7.60	1333.30	1333.30	1333.31	1335.83	2.53	1.22	.56	100000.00
9500.0	.0	9500.0	.0	.0	744.7	.0	1148.2	188.5	100000.00
2.27	.00	12.76	.00	.000	.030	.000	.000	1325.70	9903.24
.007949	470.	475.	460.	4	15	0	.00	150.67	10053.90

*SECNO .398

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

3470 ENCROACHMENT STATIONS= 9912.0 10094.0 TYPE= 1 TARGET= 182.000

.398	8.47	1337.27	.00	1337.27	1338.35	1.08	2.37	.14	100000.00
9500.0	.0	9500.0	.0	.0	1139.0	.0	1160.7	190.7	100000.00
2.29	.00	8.34	.00	.000	.030	.000	.000	1328.80	9912.47
.002478	600.	581.	540.	2	0	0	.00	181.53	10094.00

*SECNO .482

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9904.0 10095.0 TYPE= 1 TARGET= 191.000

.482	10.44	1341.64	1341.64	1342.35	1344.13	2.49	1.48	.42	1341.10
9500.0	20.4	8687.7	791.8	12.9	660.3	156.3	1170.4	192.5	1338.00
2.30	1.58	13.16	5.07	.035	.030	.035	.000	1331.20	9904.00
.004924	440.	444.	270.	20	11	0	.00	191.00	10095.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .575

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

3470 ENCROACHMENT STATIONS= 9870.0 10080.0 TYPE= 1 TARGET= 210.000

.575	13.34	1344.84	.00	1343.82	1345.71	.87	1.42	.16	100000.00
9500.0	.0	9340.0	160.0	.0	1235.5	59.0	1182.4	194.7	1343.10
2.32	.00	7.56	2.71	.000	.030	.035	.000	1331.50	9870.00
.001890	460.	491.	500.	2	0	0	.00	210.00	10080.00

*SECNO .697

3470 ENCROACHMENT STATIONS= 9875.0 10035.0 TYPE= 1 TARGET= 160.000

.697	11.95	1345.95	.00	1345.06	1346.90	.95	1.17	.02	100000.00
9400.0	.0	9208.8	191.2	.0	1171.2	50.1	1201.0	197.5	1341.40
2.34	.00	7.86	3.82	.000	.030	.035	.000	1334.00	9875.00
.001739	640.	644.	640.	3	0	0	.00	160.00	10035.00

*SECNO .826

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9880.0 10040.0 TYPE= 1 TARGET= 160.000

.826	9.33	1348.13	1348.13	1348.29	1350.60	2.47	2.26	.46	1345.50
9400.0	612.3	8787.7	.0	97.4	678.6	.0	1216.6	200.0	100000.00
2.35	6.28	12.95	.00	.035	.035	.000	.000	1338.80	9880.00
.008678	680.	681.	660.	20	19	0	.00	160.00	10040.00

*SECNO .945

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.89

3470 ENCROACHMENT STATIONS= 9870.0 10030.0 TYPE= 1 TARGET= 160.000

.945	12.05	1352.45	.00	1352.12	1353.37	.92	2.61	.16	100000.00
9400.0	.0	9400.0	.0	.0	1223.9	.0	1231.1	202.3	100000.00
2.38	.00	7.68	.00	.000	.035	.000	.000	1340.40	9870.00
.002420	680.	628.	600.	3	0	0	.00	160.00	10030.00

*SECNO 1.035
3280 CROSS SECTION 1.03 EXTENDED .61 FEET

3470 ENCROACHMENT STATIONS= 9870.0 10030.0 TYPE= 1 TARGET= 160.000

1.035	11.71	1353.61	.00	1352.93	1354.72	1.11	1.30	.06	100000.00
9400.0	.0	9229.2	170.8	.0	1083.6	35.3	1243.9	204.0	1348.80
2.39	.00	8.52	4.84	.000	.035	.035	.000	1341.90	9870.00
.003107	440.	475.	460.	3	0	0	.00	160.00	10030.00

*SECNO 1.121
3280 CROSS SECTION 1.12 EXTENDED .18 FEET

3470 ENCROACHMENT STATIONS= 9890.0 10050.0 TYPE= 1 TARGET= 160.000

1.121	11.58	1355.18	.00	1354.16	1355.89	.71	1.13	.04	100000.00
9400.0	.0	9400.0	.0	.0	1387.0	.0	1256.9	205.7	100000.00
2.41	.00	6.78	.00	.000	.040	.000	.000	1343.60	9890.00
.002041	480.	454.	440.	2	0	0	.00	160.00	10050.00

*SECNO 1.204

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .53

3470 ENCROACHMENT STATIONS= 9950.0 10110.0 TYPE= 1 TARGET= 160.000

1.204	11.44	1355.74	.00	1355.42	1357.83	2.08	1.52	.41	100000.00
9400.0	.0	8620.1	779.9	.0	719.0	148.2	1268.3	207.3	1352.50
2.42	.00	11.99	5.26	.000	.040	.040	.000	1344.30	9950.00
.007164	430.	438.	450.	3	0	0	.00	160.00	10110.00

KY14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

3470 ENCROACHMENT STATIONS= 9905.0 10060.0 TYPE= 1 TARGET= 155.000

1.315	10.99	1359.79	.00	1359.33	1360.51	.72	2.54	.14	100000.00
9100.0	.0	9100.0	.0	.0	1340.5	.0	1286.8	209.9	100000.00
2.45	.00	6.79	.00	.000	.040	.000	.000	1348.80	9905.00
.002012	720.	734.	700.	2	0	0	.00	155.00	10060.00

*SECNO 1.420
WATER EL=X5 CARD= 1361.600

3470 ENCROACHMENT STATIONS= 9800.0 10200.0 TYPE= 1 TARGET= 400.000

1.420	7.60	1361.60	.00	1361.00	1362.84	1.24	.84	.16	1358.00
8400.0	3122.1	3372.0	1905.9	464.5	283.8	354.0	1298.1	212.5	1358.00
2.46	6.72	11.88	5.38	.020	.020	.020	.000	1354.00	9800.00
.002173	380.	407.	420.	0	0	0	.00	400.00	10200.00

14PRINT

THIS RUN EXECUTED 14OCT04 14:39:53

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAVE CREEK WASH

SUMMARY PRINTOUT

	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX
	9777.926	10229.71	451.78	14.09	15400.00	.33	.00
	9855.239	10193.00	337.76	15.09	15400.00	.39	.00
*	9829.443	10149.15	319.71	12.22	15400.00	.89	.13
*	9900.000	10150.00	250.00	13.21	15400.00	.96	.12
*	9900.354	10101.72	201.37	10.18	15400.00	2.28	1.76
*	9921.000	10064.00	143.00	10.97	15400.00	2.28	1.56
	9921.074	10085.31	164.24	13.08	15400.00	3.62	5.40
	9956.000	10066.00	110.00	13.51	15400.00	3.36	5.03
*	9951.606	10048.37	96.76	12.01	15400.00	3.83	3.33
*	9951.601	10048.38	96.78	12.13	15400.00	3.74	3.03
	9951.544	10048.43	96.89	13.34	15400.00	2.99	2.13
	9951.533	10048.45	96.91	13.59	15400.00	2.86	2.26
*	9876.938	10106.51	229.58	18.44	15400.00	.71	3.10
*	9900.000	10085.00	185.00	18.51	15400.00	.71	2.92
	9856.868	10454.71	597.84	18.52	15400.00	.30	.68
	9857.020	10125.00	267.98	18.48	15400.00	.45	.57
*	9881.859	10110.59	228.73	16.37	15400.00	.76	-.05
	9882.200	10110.00	227.80	16.50	15400.00	.74	.12
	9895.204	10108.18	212.97	15.24	15400.00	.97	.36
	9895.600	10107.80	212.20	15.34	15400.00	.95	.35
*	9885.219	10271.68	386.47	18.09	15400.00	2.09	4.85
*	9886.686	10140.00	253.31	17.86	15400.00	2.45	4.52

K/714PRINT

	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX
*	9873.211	10316.94	443.73	19.61	15400.00	1.00	1.92
*	9885.000	10140.00	255.00	20.48	15400.00	1.02	3.01
*	9881.306	10169.98	288.68	18.98	15400.00	.47	.97
*	9881.400	10169.80	288.40	19.88	15400.00	.40	1.00
	9880.610	10170.93	290.32	19.13	15400.00	.41	.14
	9880.700	10170.80	290.10	19.99	15400.00	.35	.11
	9875.905	10177.35	301.44	20.10	15400.00	.34	1.07
	9876.100	10177.20	301.10	20.45	15400.00	.32	.56
	9879.366	10134.89	255.52	19.23	15400.00	.64	-.07
	9879.600	10134.70	255.10	19.58	15400.00	.60	-.07
	9883.011	10111.84	228.83	17.28	15400.00	.84	.26
	9883.200	10111.70	228.50	17.61	15400.00	.79	.23
	9891.671	10107.84	216.17	16.99	15400.00	.85	.51
	9891.800	10107.00	215.20	17.27	15400.00	.81	.46
	9887.571	10087.64	200.07	16.04	15400.00	.97	.45
	9887.700	10087.50	199.80	16.28	15400.00	.92	.41
*	9866.123	10038.56	172.44	13.29	15400.00	1.80	.26
*	9866.300	10038.50	172.20	13.51	15400.00	1.72	.23
*	9942.000	10062.09	120.09	13.89	15400.00	4.37	1.59
*	9942.100	10061.90	119.80	14.09	15400.00	4.15	1.58
*	9922.940	10081.20	158.26	16.99	15400.00	1.82	4.70
*	9923.343	10080.81	157.47	16.89	15400.00	1.85	4.41
*	9948.000	10057.00	109.00	8.22	14600.00	4.12	2.73
*	9948.000	10057.00	109.00	8.22	14600.00	4.12	2.82
*	9948.000	10057.00	109.00	10.36	14600.00	2.60	2.13
*	9948.000	10057.00	109.00	10.36	14600.00	2.60	2.14
	9944.342	10104.00	159.66	11.61	14600.00	1.87	1.25
	9944.351	10103.99	159.64	11.60	14600.00	1.87	1.25
	9955.110	10117.80	162.69	12.59	14600.00	1.83	2.29
	9955.110	10117.80	162.69	12.59	14600.00	1.83	2.29
	9931.377	10060.98	129.60	12.61	14600.00	1.94	2.62
	9931.366	10060.99	129.63	12.61	14600.00	1.93	2.62
*	9965.000	10025.00	60.00	12.29	5700.00	.93	1.68
	9965.000	10025.00	60.00	12.35	5700.00	.92	1.74

14/14PRINT

	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX
	9965.000	10025.00	60.00	12.93	5700.00	.84	1.64
	9965.000	10025.00	60.00	13.00	5700.00	.83	1.65
	9935.223	10043.57	108.35	12.89	5700.00	.52	.46
	9953.000	10038.00	85.00	12.93	5700.00	.54	.43
*	9940.635	10050.49	109.85	13.34	5700.00	.59	.15
*	9957.000	10043.00	86.00	13.34	5700.00	.67	.11
*	9950.403	10037.28	86.88	7.77	5700.00	2.55	.24
*	9958.000	10031.00	73.00	7.83	5700.00	2.60	.29
*	9969.000	10020.00	51.00	9.51	5700.00	2.14	.94
*	9969.000	10020.00	51.00	9.87	5700.00	1.99	1.24
	9969.000	10020.00	51.00	11.45	5700.00	1.48	1.94
	9969.000	10020.00	51.00	11.92	5700.00	1.37	2.05
*	9971.564	10025.19	53.63	11.25	5700.00	3.54	3.10
*	9975.000	10024.93	49.93	11.10	5700.00	3.76	2.49
*	9960.576	10044.51	83.94	12.58	5700.00	1.58	5.13
*	9972.000	10029.00	57.00	12.48	5700.00	1.79	5.17
	9961.304	10049.98	88.68	12.19	5700.00	1.57	2.00
	9964.000	10035.00	71.00	12.21	5700.00	1.65	2.13
	9950.565	10038.88	88.31	10.14	5700.00	1.17	1.95
	9963.000	10036.00	73.00	10.24	5700.00	1.25	2.03
	9970.000	10021.00	51.00	10.04	5700.00	1.92	-.20
	9970.000	10021.00	51.00	10.22	5700.00	1.86	-.12
	9970.000	10021.00	51.00	10.77	5700.00	1.67	.73
	9970.000	10021.00	51.00	10.98	5700.00	1.61	.76
	9958.689	10071.51	112.82	11.57	5700.00	.94	1.60
	9958.197	10072.00	113.80	11.71	5700.00	.91	1.52
	9985.000	10036.00	51.00	9.83	5700.00	2.01	-.44
	9985.000	10036.00	51.00	9.97	5700.00	1.95	-.43
	9985.000	10036.00	51.00	10.62	5700.00	1.72	.80
	9985.000	10036.00	51.00	10.72	5700.00	1.69	.75
	9905.348	10095.18	189.83	9.25	5700.00	.70	2.33
	9930.000	10069.00	139.00	9.24	5700.00	.77	2.22
	9917.796	10068.41	150.61	10.01	5700.00	.43	1.06
	9935.000	10065.00	130.00	10.04	5700.00	.45	1.10

K/14PRINT

	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX
*	9959.293	10026.51	67.22	8.84	5700.00	3.06	2.72
*	9962.000	10026.00	64.00	8.74	5700.00	3.18	2.60
*	9968.000	10019.00	51.00	7.27	5700.00	3.67	2.13
*	9968.000	10019.00	51.00	7.30	5700.00	3.64	2.25
*	9968.000	10019.00	51.00	9.60	5700.00	2.11	2.43
*	9968.000	10019.00	51.00	9.60	5700.00	2.11	2.40
*	9965.000	10043.00	78.00	5.87	5700.00	2.41	1.77
*	9965.000	10043.00	78.00	5.87	5700.00	2.41	1.77
*	9965.000	10043.00	78.00	6.98	5700.00	1.70	2.01
*	9965.000	10043.00	78.00	6.98	5700.00	1.70	2.01
*	9800.893	10062.04	261.14	9.68	5700.00	.69	1.60
*	9904.000	10060.00	156.00	9.64	5700.00	.72	1.56
	9629.814	10168.29	313.22	7.69	5700.00	.43	1.31
*	9860.000	10110.00	250.00	7.63	5700.00	.74	1.29
*	9568.926	10089.02	520.10	8.45	5700.00	1.12	4.66
*	9810.000	10060.00	250.00	7.98	5700.00	1.62	4.25
*	9631.621	10066.01	434.39	8.05	5700.00	1.00	2.80
	9900.000	10060.00	160.00	7.93	5700.00	1.81	3.15
*	9818.281	10126.36	304.81	8.36	5700.00	1.30	5.62
*	9900.000	10125.00	221.77	8.37	5700.00	1.52	5.74
*	9556.042	10337.00	366.91	9.27	5700.00	.53	3.00
*	9939.046	10105.49	166.44	9.48	5700.00	.53	3.21
*	9497.845	10076.82	514.70	8.03	5700.00	.92	3.16
*	9852.000	10077.00	215.51	8.59	5700.00	1.45	3.51
*	9388.000	10340.54	868.38	7.14	5700.00	.78	2.71
*	9940.000	10165.00	225.00	8.08	5700.00	.88	3.08
*	9392.000	10414.00	977.37	9.38	5500.00	.60	4.13
*	9890.000	10115.00	225.00	9.89	5500.00	1.35	3.72
*	9744.710	10353.48	525.85	8.78	5500.00	1.19	1.80
*	9940.000	10140.00	200.00	9.76	5500.00	.79	2.27
	9857.218	10295.09	437.88	6.94	5500.00	.80	2.86
*	9900.000	10100.00	200.00	6.82	5500.00	1.17	1.76
*	9834.778	10431.00	596.22	7.77	5500.00	.80	1.63
	9834.627	10080.00	245.37	7.82	5500.00	1.32	1.80

K/14PRINT

	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX
*	9314.752	10285.14	970.39	4.06	5500.00	.13	1.19
*	9650.000	10070.00	420.00	4.68	5500.00	.20	1.77
*	9424.443	10052.98	459.91	7.06	5500.00	.94	.20
*	9630.000	10051.00	310.27	7.20	5500.00	.89	-.28
*	9242.076	10049.66	777.84	8.28	5500.00	.17	3.02
*	9620.000	10030.00	396.88	8.68	5500.00	.36	3.27
	9137.477	10060.52	828.27	10.25	5500.00	.21	1.17
	9620.000	10020.00	381.09	11.06	5500.00	.36	1.59
*	9320.961	10027.44	419.21	7.26	5500.00	.71	1.42
*	9650.000	10027.00	292.44	8.21	5500.00	.72	1.54
*	9854.456	10066.88	193.61	10.22	5500.00	1.76	7.56
*	9860.000	10040.00	159.26	10.09	5500.00	1.92	6.48
*	9874.906	10199.99	325.09	10.96	5500.00	.12	2.23
*	9890.000	10050.00	160.00	11.24	5500.00	.30	2.65
*	9968.384	10064.20	95.82	9.65	5500.00	.99	-.11
*	9968.000	10064.00	96.00	10.52	5500.00	.79	.48
*	9740.492	10028.39	287.90	8.31	5500.00	.14	1.66
*	9830.000	10028.00	198.00	9.02	5500.00	.24	1.50
*	9978.947	10194.69	215.74	7.85	5500.00	.42	.55
	9977.000	10160.00	183.00	8.80	5500.00	.34	.78
	9952.127	10163.91	211.78	7.05	5500.00	.58	1.49
*	9951.000	10120.00	169.00	7.53	5500.00	.78	1.03
	9754.057	10026.14	272.08	5.73	5500.00	.62	3.59
	9890.000	10026.00	136.00	6.73	5500.00	1.14	4.10
*	9899.145	10117.43	186.86	4.79	5500.00	1.57	6.25
	9958.000	10090.00	132.00	5.50	5500.00	1.50	5.97
*	9604.292	10213.52	609.23	4.15	5500.00	.17	3.16
*	9592.721	10221.65	628.93	4.42	5500.00	.14	2.72
*	9978.439	10023.18	44.74	9.33	3400.00	2.83	1.48
*	9978.488	10023.14	44.65	9.31	3400.00	2.85	1.19
	9969.064	10035.98	66.92	7.79	3400.00	1.43	5.86
*	9969.034	10036.01	66.98	7.81	3400.00	1.43	5.90
	9980.934	10040.07	59.14	7.32	3400.00	1.77	3.43
	9980.940	10040.06	59.12	7.32	3400.00	1.77	3.41

14PRINT

	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX
	9977.539	10035.01	57.47	8.51	3400.00	1.35	4.28
	9977.537	10035.01	57.48	8.51	3400.00	1.35	4.29
	9978.900	10033.70	54.80	7.51	3400.00	1.88	.80
	9978.899	10033.70	54.80	7.51	3400.00	1.87	.80
*	9974.592	10037.86	63.27	10.64	3400.00	.74	3.72
*	9974.592	10037.86	63.27	10.64	3400.00	.74	3.72
	9968.000	10043.49	75.49	8.95	3400.00	.78	.51
	9968.000	10043.49	75.49	8.95	3400.00	.78	.51
	9970.387	10035.72	65.33	8.75	3400.00	1.33	2.01
	9970.387	10035.72	65.33	8.75	3400.00	1.33	2.01
*	9951.000	10037.00	86.00	9.31	4350.00	1.08	3.86
*	9951.000	10037.00	86.00	9.31	4350.00	1.08	3.86
*	9967.410	10043.00	75.59	13.14	5300.00	1.14	2.03
*	9967.410	10043.00	75.59	13.14	5300.00	1.14	2.03
*	9944.771	10043.68	98.91	12.91	5300.00	.63	1.56
*	9944.771	10043.68	98.91	12.91	5300.00	.63	1.56
	9972.000	10044.00	72.00	9.84	5300.00	.87	.83
	9972.000	10044.00	72.00	9.84	5300.00	.87	.83
	9972.000	10044.00	72.00	11.11	5300.00	.68	1.27
	9972.000	10044.00	72.00	11.11	5300.00	.68	1.27
	9952.584	10119.36	166.78	11.01	5300.00	.34	.50
	9955.000	10055.00	100.00	10.80	5300.00	.51	.29
*	9941.091	10137.67	196.58	12.09	5300.00	.15	.48
	9950.000	10050.00	100.00	12.08	5300.00	.34	.67
*	9858.940	10225.25	366.31	14.31	5300.00	.04	.22
*	9940.000	10080.00	140.00	14.57	5300.00	.15	.49
*	9926.468	10204.13	277.67	8.65	5300.00	.15	.04
*	9927.000	10080.00	153.00	9.07	5300.00	.33	.20
*	9907.263	10181.31	181.23	6.53	5300.00	.92	.37
*	9950.000	10160.00	121.98	7.51	5300.00	1.04	.94
	9911.007	10105.18	194.18	5.25	5300.00	1.28	5.72
*	9940.000	10060.00	120.00	5.26	5300.00	1.79	4.75
*	9936.060	10340.68	355.18	4.89	5200.00	.29	4.84
*	9936.000	10200.00	225.20	5.80	5200.00	.48	5.74

K/T4PRINT

	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX
*	9968.354	10633.62	650.49	5.63	5200.00	.60	3.44
*	9968.000	10350.00	370.28	6.28	5200.00	.75	3.18
*	9801.216	10618.77	799.36	5.74	5200.00	.12	3.12
*	9860.000	10300.00	433.65	6.66	5200.00	.22	3.38
*	9705.759	10481.24	557.24	3.57	5200.00	.71	3.83
*	9850.000	10250.00	369.90	3.93	5200.00	.94	3.27
*	9922.081	10297.84	369.01	6.19	4900.00	.31	4.92
*	9940.000	10175.00	234.87	7.08	4900.00	.45	5.45
	9501.710	10023.49	521.78	10.01	4900.00	.19	1.82
	9750.000	10023.00	273.00	11.04	4900.00	.32	1.96
*	9655.938	10023.00	367.07	6.07	4900.00	.26	5.35
*	9925.000	10023.00	98.00	6.87	4900.00	2.16	5.12
*	9970.531	10035.93	65.40	8.17	4900.00	2.95	4.60
	9970.000	10036.00	66.00	8.37	4900.00	2.75	4.00
*	9923.524	10094.35	170.83	10.04	4900.00	.34	3.77
*	9970.000	10050.00	80.00	9.95	4900.00	.77	3.49
*	9930.016	10091.63	161.62	11.99	4900.00	.20	.25
*	9960.000	10040.00	80.00	12.20	4900.00	.43	.55
*	9963.449	10036.55	73.10	5.21	4900.00	2.61	2.76
*	9963.448	10036.55	73.10	5.22	4900.00	2.60	2.56
*	9963.295	10036.71	73.41	6.67	4900.00	1.58	1.46
*	9963.295	10036.71	73.41	6.67	4900.00	1.58	1.46
	9959.867	10040.13	80.27	6.54	4900.00	1.93	-.14
	9959.873	10040.13	80.25	6.53	4900.00	1.94	-.14
	9949.335	10067.02	117.68	8.76	2900.00	.19	2.29
	9949.444	10050.00	100.55	8.72	2900.00	.23	2.24
*	9471.447	10305.23	663.75	8.24	2700.00	.04	.38
*	9950.000	10050.00	100.00	8.30	2700.00	.45	.48
*	9982.015	10442.86	351.98	5.62	2500.00	.64	1.58
*	9982.000	10082.00	100.00	5.65	2500.00	1.36	1.55
	9958.722	10123.26	164.54	6.67	2300.00	.56	4.75
*	9959.000	10059.00	100.00	7.46	2300.00	.54	5.51
	9841.258	10023.28	182.03	7.29	2200.00	.49	2.42
	9950.000	10023.00	73.00	7.63	2200.00	.82	1.97

14CT4PRINT

	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX
	9958.100	10063.97	105.87	4.99	2000.00	.46	1.50
	9970.000	10040.00	70.00	5.70	2000.00	.50	1.87
*	9972.983	10076.25	103.26	6.15	1900.00	1.24	3.15
*	9973.344	10060.00	86.66	6.08	1900.00	1.30	2.38
*	9967.153	10064.32	97.17	7.55	1700.00	.32	3.20
*	9967.046	10064.00	96.95	7.57	1700.00	.32	3.29
*	9885.246	10068.38	183.14	6.45	1600.00	.08	.80
*	9955.000	10045.00	90.00	6.49	1600.00	.15	.83
*	9470.606	10189.08	718.47	8.14	1300.00	.00	.09
	9945.000	10025.00	80.00	8.33	1300.00	.09	.24
*	9957.840	10280.56	239.18	2.18	1300.00	.53	1.74
*	9970.000	10030.00	60.00	3.14	1300.00	1.23	2.51
*	9980.902	10048.91	68.01	3.48	1100.00	1.02	12.20
*	9981.000	10031.00	50.00	3.55	1100.00	1.24	11.32
*	9765.394	10199.60	434.21	7.21	1000.00	.00	1.13
*	9975.000	10025.00	50.00	7.82	1000.00	.10	1.67
*	9932.300	10336.41	371.10	6.81	900.00	.00	.00
*	9975.000	10025.00	50.00	7.57	900.00	.17	.15
*	9983.669	10013.14	29.47	5.36	900.00	1.56	12.15
*	9983.689	10013.10	29.41	5.35	900.00	1.57	11.38
*	9981.041	10020.03	38.99	6.98	600.00	.17	2.72
*	9981.031	10020.00	38.97	6.98	600.00	.17	2.72
	9972.011	10022.21	50.20	6.54	400.00	.05	.36
	9972.011	10022.20	50.19	6.54	400.00	.05	.36
	9931.367	10060.99	129.62	12.61	14600.00	1.93	-234.33
	9931.366	10060.99	129.62	12.61	14600.00	1.93	-234.33
*	9942.559	10073.06	130.50	9.75	9500.00	3.24	1.14
*	9942.560	10073.10	130.54	9.83	9500.00	3.16	1.22
*	9762.301	10092.55	330.25	11.44	9500.00	.50	3.59
*	9905.000	10092.00	187.00	11.38	9500.00	.55	3.45
	9860.871	10110.44	249.57	9.51	9500.00	.63	.37
	9910.000	10110.00	200.00	9.46	9500.00	.66	.38
*	9903.193	10053.94	150.75	7.61	9500.00	2.52	.00
*	9903.238	10053.90	150.67	7.60	9500.00	2.53	.04

1471PRINT

	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX
*	9912.479	10094.30	181.83	8.47	9500.00	1.08	3.96
*	9912.469	10094.00	181.53	8.47	9500.00	1.08	3.96
*	9903.830	10793.57	889.74	11.15	9500.00	1.05	5.09
*	9904.000	10095.00	191.00	10.44	9500.00	2.49	4.37
	9777.804	10508.02	730.21	12.32	9500.00	.71	1.47
*	9870.000	10080.00	210.00	13.34	9500.00	.87	3.20
	9856.010	10093.21	237.20	11.06	9400.00	1.04	1.24
	9875.000	10035.00	160.00	11.95	9400.00	.95	1.12
*	9845.346	10045.20	199.85	9.49	9400.00	2.23	3.24
*	9880.000	10040.00	160.00	9.33	9400.00	2.47	2.17
*	9624.181	10185.88	561.70	11.72	9400.00	.52	3.82
*	9870.000	10030.00	160.00	12.05	9400.00	.92	4.32
	9686.180	10146.95	460.77	11.03	9400.00	.72	.82
	9870.000	10030.00	160.00	11.71	9400.00	1.11	1.16
	9871.674	10106.95	235.28	10.56	9400.00	.80	1.23
	9890.000	10050.00	160.00	11.58	9400.00	.71	1.57
*	9930.000	10173.36	226.07	11.12	9400.00	2.09	1.26
*	9950.000	10110.00	160.00	11.44	9400.00	2.08	.56
*	9904.629	10236.67	332.04	10.53	9100.00	.39	3.91
*	9905.000	10060.00	155.00	10.99	9100.00	.72	4.05
*	9555.000	10785.00	970.00	7.00	8400.00	.67	1.67
*	9800.000	10200.00	400.00	7.60	8400.00	1.24	1.81

K74PRINT

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	17.588	.00	.00	.00	1269.60	15400.00	1283.69	.00	1284.02	7.50	4.99	3488.53	5622.52
	17.588	.00	.00	.00	1269.60	15400.00	1284.69	.00	1285.08	7.84	5.27	3195.30	5500.48
*	17.662	391.00	.00	.00	1271.60	15400.00	1283.82	.00	1284.71	30.36	7.88	2068.95	2794.72
*	17.662	391.00	.00	.00	1271.60	15400.00	1284.81	.00	1285.77	26.64	8.01	1988.10	2983.71
*	17.783	639.00	.00	.00	1275.40	15400.00	1285.58	.00	1287.86	69.39	12.42	1316.76	1848.70
*	17.783	639.00	.00	.00	1275.40	15400.00	1286.37	.00	1288.65	64.31	12.11	1271.36	1920.30
	17.932	787.00	.00	.00	1277.90	15400.00	1290.98	1290.58	1294.60	94.53	15.31	1032.99	1583.93
	17.932	787.00	.00	.00	1277.90	15400.00	1291.41	.00	1294.76	84.88	14.71	1047.05	1671.52
*	18.042	581.00	.00	.00	1282.30	15400.00	1294.31	.00	1298.14	40.40	15.70	980.68	2422.94
*	18.042	581.00	.00	.00	1282.30	15400.00	1294.43	.00	1298.17	38.93	15.52	992.47	2468.22
	18.061	101.00	1301.60	1293.20	1283.10	15400.00	1296.44	.00	1299.43	27.57	13.88	1109.88	2933.00
	18.061	101.00	1301.60	1293.20	1283.10	15400.00	1296.69	.00	1299.55	25.82	13.58	1133.85	3030.90
*	18.081	106.00	.00	.00	1281.10	15400.00	1299.54	.00	1300.24	6.72	7.21	2442.95	5941.02
*	18.081	106.00	.00	.00	1281.10	15400.00	1299.61	.00	1300.32	6.71	7.22	2411.12	5944.90
	18.174	491.00	.00	.00	1281.70	15400.00	1300.22	.00	1300.52	3.64	4.90	3968.63	8070.79
	18.174	491.00	.00	.00	1281.70	15400.00	1300.18	.00	1300.63	4.85	5.64	3010.21	6990.09
*	18.269	502.00	.00	.00	1283.80	15400.00	1300.17	.00	1300.93	9.01	7.43	2321.60	5130.00
	18.269	502.00	.00	.00	1283.80	15400.00	1300.30	.00	1301.04	8.70	7.34	2349.30	5220.73
	18.362	491.00	.00	.00	1285.30	15400.00	1300.54	.00	1301.51	12.23	8.34	2064.77	4403.57
	18.362	491.00	.00	.00	1285.30	15400.00	1300.64	.00	1301.60	11.86	8.26	2086.23	4471.55
*	18.445	440.00	.00	.00	1287.30	15400.00	1305.39	1305.39	1307.48	43.15	17.27	1503.29	2344.52
*	18.445	440.00	.00	.00	1287.30	15400.00	1305.16	1305.16	1307.61	48.73	18.19	1373.12	2206.00
*	18.456	60.00	1299.50	1294.20	1287.70	15400.00	1307.31	.00	1308.31	20.14	12.51	2161.38	3431.16
*	18.456	60.00	1299.50	1294.20	1287.70	15400.00	1308.18	.00	1309.20	16.73	11.75	2039.97	3765.50
*	18.545	466.00	.00	.00	1289.30	15400.00	1308.28	.00	1308.76	4.60	6.08	3034.68	7178.26
*	18.545	466.00	.00	.00	1289.30	15400.00	1309.18	.00	1309.57	3.67	5.62	3291.95	8036.51
	18.575	160.00	.00	.00	1289.30	15400.00	1308.43	.00	1308.83	4.42	6.17	3076.17	7327.74
	18.575	160.00	.00	.00	1289.30	15400.00	1309.29	.00	1309.64	3.56	5.71	3326.42	8165.64
	18.583	40.00	1299.00	1295.40	1289.40	15400.00	1309.50	.00	1309.84	3.47	5.66	3362.95	8265.62
	18.583	40.00	1299.00	1295.40	1289.40	15400.00	1309.85	.00	1310.17	3.19	5.49	3468.84	8626.55
	18.640	301.00	.00	.00	1290.20	15400.00	1309.43	.00	1310.07	6.63	7.29	2573.96	5979.80
	18.640	301.00	.00	.00	1290.20	15400.00	1309.78	.00	1310.38	6.04	7.05	2664.75	6267.51

IC714PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	18.734	496.00	.00	.00	1292.40	15400.00	1309.68	.00	1310.53	9.85	7.72	2226.08	4906.54
	18.734	496.00	.00	.00	1292.40	15400.00	1310.01	.00	1310.80	8.96	7.48	2302.44	5144.44
	18.832	517.00	.00	.00	1293.20	15400.00	1310.19	.00	1311.04	10.03	7.81	2193.40	4863.49
	18.832	517.00	.00	.00	1293.20	15400.00	1310.47	.00	1311.28	9.27	7.61	2253.33	5056.70
	18.925	491.00	.00	.00	1294.60	15400.00	1310.64	.00	1311.60	11.44	8.39	2082.17	4553.27
	18.925	491.00	.00	.00	1294.60	15400.00	1310.88	.00	1311.80	10.68	8.20	2130.46	4711.81
*	19.018	491.00	.00	.00	1297.60	15400.00	1310.89	.00	1312.69	28.64	10.92	1480.40	2877.38
*	19.018	491.00	.00	.00	1297.60	15400.00	1311.11	.00	1312.82	26.67	10.67	1516.91	2982.25
*	19.117	523.00	.00	.00	1298.60	15400.00	1312.49	1312.49	1316.85	66.08	18.27	999.22	1894.44
*	19.117	523.00	.00	.00	1298.60	15400.00	1312.69	1312.69	1316.84	61.60	17.83	1023.47	1962.15
*	19.210	491.00	.00	.00	1300.20	15400.00	1317.19	.00	1319.01	25.38	10.96	1476.42	3057.00
*	19.210	491.00	.00	.00	1300.20	15400.00	1317.09	.00	1318.95	26.12	11.06	1461.48	3013.42
*	19.283	386.00	.00	.00	1311.70	14600.00	1319.92	1319.92	1324.04	88.76	16.29	896.06	1549.73
*	19.283	386.00	.00	.00	1311.70	14600.00	1319.92	1319.92	1324.04	88.82	16.30	895.86	1549.15
*	19.299	86.00	1326.50	1324.20	1311.70	14600.00	1322.06	.00	1324.65	41.12	12.94	1128.71	2276.85
*	19.299	86.00	1326.50	1324.20	1311.70	14600.00	1322.06	.00	1324.65	41.12	12.94	1128.71	2276.85
	19.313	74.00	.00	.00	1311.70	14600.00	1323.31	.00	1325.17	40.73	10.97	1330.91	2287.58
	19.313	74.00	.00	.00	1311.70	14600.00	1323.30	.00	1325.17	40.78	10.97	1330.40	2286.33
	19.418	554.00	.00	.00	1313.00	14600.00	1325.59	.00	1327.43	40.41	10.87	1343.38	2296.67
	19.418	554.00	.00	.00	1313.00	14600.00	1325.59	.00	1327.43	40.41	10.87	1343.36	2296.63
	19.560	729.00	.00	.00	1315.60	14600.00	1328.21	.00	1330.15	33.89	11.17	1307.11	2508.10
	19.560	729.00	.00	.00	1315.60	14600.00	1328.21	.00	1330.15	33.82	11.16	1307.97	2510.53
*	19.625	364.00	.00	.00	1317.60	5700.00	1329.89	.00	1330.82	2.14	7.73	737.58	3892.33
	19.625	364.00	.00	.00	1317.60	5700.00	1329.95	.00	1330.87	2.71	7.69	741.23	3463.95
	19.691	350.00	1334.80	1328.30	1318.60	5700.00	1331.53	.00	1332.37	1.81	7.35	775.94	4235.58
	19.691	350.00	1334.80	1328.30	1318.60	5700.00	1331.60	.00	1332.43	2.31	7.30	780.34	3751.47
	19.742	269.00	.00	.00	1319.10	5700.00	1331.99	.00	1332.51	1.65	5.78	989.66	4443.80
	19.742	269.00	.00	.00	1319.10	5700.00	1332.03	.00	1332.57	1.67	5.88	968.96	4413.26
*	19.847	554.00	.00	.00	1318.80	5700.00	1332.14	.00	1332.73	12.96	6.16	925.11	1583.22
*	19.847	554.00	.00	.00	1318.80	5700.00	1332.14	.00	1332.81	12.91	6.56	868.48	1586.46
*	19.960	597.00	.00	.00	1324.60	5700.00	1332.37	1332.22	1334.93	86.99	12.89	453.16	611.14
*	19.960	597.00	.00	.00	1324.60	5700.00	1332.43	.00	1335.03	94.25	12.94	440.51	587.14
*	19.974	74.00	.00	.00	1323.80	5700.00	1333.31	.00	1335.46	38.00	11.75	485.10	924.69
*	19.974	74.00	.00	.00	1323.80	5700.00	1333.67	.00	1335.66	42.62	11.33	503.02	873.10

14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	19.986	61.00	1337.90	1334.10	1323.80	5700.00	1335.25	.00	1336.73	20.47	9.76	584.05	1259.95
	19.986	61.00	1337.90	1334.10	1323.80	5700.00	1335.72	.00	1337.08	23.70	9.38	607.87	1170.79
*	20.049	333.00	.00	.00	1327.10	5700.00	1338.35	1338.35	1341.90	107.38	15.11	377.27	550.06
*	20.049	333.00	.00	.00	1327.10	5700.00	1338.20	1338.20	1341.96	111.86	15.56	366.41	538.93
*	20.144	502.00	.00	.00	1330.90	5700.00	1343.48	.00	1345.07	37.44	10.19	581.36	931.51
*	20.144	502.00	.00	.00	1330.90	5700.00	1343.38	.00	1345.17	37.33	10.77	536.15	932.88
	20.242	517.00	.00	.00	1333.30	5700.00	1345.49	.00	1347.06	39.42	10.18	585.14	907.91
	20.242	517.00	.00	.00	1333.30	5700.00	1345.51	.00	1347.16	39.05	10.35	561.35	912.12
	20.335	491.00	.00	.00	1337.30	5700.00	1347.44	.00	1348.61	24.69	8.72	670.93	1147.08
	20.335	491.00	.00	.00	1337.30	5700.00	1347.54	.00	1348.79	27.39	9.00	640.23	1089.20
	20.347	63.00	.00	.00	1337.20	5700.00	1347.24	.00	1349.16	31.74	11.13	512.00	1011.72
	20.347	63.00	.00	.00	1337.20	5700.00	1347.42	.00	1349.28	29.91	10.94	521.20	1042.18
	20.366	100.00	1354.50	1349.70	1337.20	5700.00	1347.97	.00	1349.64	25.15	10.38	549.06	1136.68
	20.366	100.00	1354.50	1349.70	1337.20	5700.00	1348.18	.00	1349.79	23.52	10.17	560.21	1175.41
	20.423	301.00	.00	.00	1338.00	5700.00	1349.57	.00	1350.51	18.88	8.03	779.90	1311.67
	20.423	301.00	.00	.00	1338.00	5700.00	1349.71	.00	1350.61	17.88	7.89	795.50	1347.87
	20.430	37.00	.00	.00	1339.30	5700.00	1349.13	.00	1351.13	34.03	11.37	501.41	977.07
	20.430	37.00	.00	.00	1339.30	5700.00	1349.27	.00	1351.22	32.42	11.20	508.76	1001.06
	20.444	70.00	1355.50	1351.30	1339.30	5700.00	1349.92	.00	1351.64	26.28	10.52	541.84	1111.87
	20.444	70.00	1355.50	1351.30	1339.30	5700.00	1350.02	.00	1351.71	25.50	10.43	546.76	1128.76
	20.529	449.00	.00	.00	1343.00	5700.00	1352.25	.00	1352.95	19.24	6.88	916.22	1299.44
	20.529	449.00	.00	.00	1343.00	5700.00	1352.24	.00	1353.01	20.52	7.10	841.01	1258.34
	20.628	523.00	.00	.00	1343.30	5700.00	1353.31	.00	1353.74	11.25	5.23	1089.38	1699.46
	20.628	523.00	.00	.00	1343.30	5700.00	1353.34	.00	1353.79	10.54	5.38	1059.09	1755.47
*	20.725	512.00	.00	.00	1347.20	5700.00	1356.04	1356.04	1359.09	107.64	14.03	406.20	549.40
*	20.725	512.00	.00	.00	1347.20	5700.00	1355.94	1355.94	1359.12	110.46	14.31	398.21	542.35
*	20.737	80.00	.00	.00	1350.90	5700.00	1358.17	1358.17	1361.84	93.20	15.38	370.63	590.44
*	20.737	80.00	.00	.00	1350.90	5700.00	1358.20	1358.20	1361.84	92.01	15.32	372.07	594.25
*	20.750	71.00	1366.00	1363.00	1351.00	5700.00	1360.60	.00	1362.70	36.86	11.64	489.54	938.83
*	20.750	71.00	1366.00	1363.00	1351.00	5700.00	1360.60	.00	1362.70	36.86	11.64	489.54	938.83
*	20.819	365.00	.00	.00	1356.50	5700.00	1362.37	.00	1364.78	81.33	12.46	457.61	632.04
*	20.819	365.00	.00	.00	1356.50	5700.00	1362.37	.00	1364.78	81.31	12.45	457.65	632.12
*	20.841	115.00	1369.90	1365.40	1357.40	5700.00	1364.38	.00	1366.08	45.51	10.46	544.68	844.92
*	20.841	115.00	1369.90	1365.40	1357.40	5700.00	1364.38	.00	1366.08	45.51	10.46	544.68	844.92

14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	20.860	100.00	.00	.00	1356.30	5700.00	1365.98	.00	1366.67	19.46	6.72	912.66	1292.01
*	20.860	100.00	.00	.00	1356.30	5700.00	1365.94	.00	1366.67	20.04	6.84	851.77	1273.28
	20.942	433.00	.00	.00	1359.60	5700.00	1367.29	.00	1367.72	27.79	5.53	1090.58	1081.34
*	20.942	433.00	.00	.00	1359.60	5700.00	1367.23	.00	1367.96	47.87	7.21	850.11	823.88
*	21.036	496.00	.00	.00	1363.50	5700.00	1371.95	1371.95	1373.07	47.34	8.87	828.79	828.42
*	21.036	496.00	.00	.00	1363.50	5700.00	1371.48	1371.48	1373.10	72.72	10.35	608.37	668.42
*	21.127	480.00	.00	.00	1366.70	5700.00	1374.75	1374.75	1375.74	43.60	8.80	919.55	863.25
	21.127	480.00	.00	.00	1366.70	5700.00	1374.63	1374.23	1376.44	64.91	10.91	564.59	707.51
*	21.230	544.00	.00	.00	1372.00	5700.00	1380.36	1380.36	1381.67	72.15	10.33	736.83	671.04
*	21.230	544.00	.00	.00	1372.00	5700.00	1380.37	1380.37	1381.88	80.46	10.91	652.73	635.45
*	21.363	702.00	.00	.00	1374.10	5700.00	1383.37	.00	1383.90	16.86	5.93	1035.95	1388.32
*	21.363	702.00	.00	.00	1374.10	5700.00	1383.58	.00	1384.11	15.72	5.84	986.18	1437.55
*	21.484	639.00	.00	.00	1378.50	5700.00	1386.53	1386.53	1387.44	63.78	9.12	915.16	713.74
*	21.484	639.00	.00	.00	1378.50	5700.00	1387.09	1387.09	1388.54	75.69	10.34	646.88	655.17
*	21.576	486.00	.00	.00	1382.10	5700.00	1389.24	1389.24	1390.02	50.20	8.22	1109.82	804.46
*	21.576	486.00	.00	.00	1382.10	5700.00	1390.18	.00	1391.06	38.27	8.04	814.66	921.36
*	21.669	491.00	.00	.00	1384.00	5500.00	1393.38	1393.38	1393.98	45.19	8.25	1287.15	818.20
*	21.669	491.00	.00	.00	1384.00	5500.00	1393.89	1393.89	1395.24	70.88	10.56	685.93	653.27
*	21.742	385.00	.00	.00	1386.40	5500.00	1395.18	1395.18	1396.38	53.65	8.98	734.57	750.89
*	21.742	385.00	.00	.00	1386.40	5500.00	1396.16	.00	1396.95	28.41	7.36	832.26	1031.84
	21.840	517.00	.00	.00	1391.10	5500.00	1398.04	.00	1398.83	43.14	7.92	908.85	837.39
*	21.840	517.00	.00	.00	1391.10	5500.00	1397.92	.00	1399.09	59.89	9.18	685.70	710.69
*	21.895	290.00	.00	.00	1391.90	5500.00	1399.67	1399.67	1400.47	49.43	9.18	1037.17	782.26
	21.895	290.00	.00	.00	1391.90	5500.00	1399.72	.00	1401.04	68.75	10.89	702.38	663.30
*	21.933	210.00	.00	.00	1396.80	5500.00	1400.86	.00	1400.99	12.21	3.39	2030.13	1573.85
*	21.933	210.00	.00	.00	1396.80	5500.00	1401.48	.00	1401.69	13.14	3.94	1565.88	1517.49
*	21.953	74.00	.00	.00	1394.00	5500.00	1401.06	1401.06	1402.01	94.59	9.53	815.45	565.51
*	21.953	74.00	.00	.00	1394.00	5500.00	1401.20	.00	1402.09	83.42	9.11	812.00	602.19
*	22.065	591.00	.00	.00	1395.80	5500.00	1404.08	.00	1404.25	25.09	4.33	1715.38	1098.07
*	22.065	591.00	.00	.00	1395.80	5500.00	1404.48	.00	1404.84	37.32	5.59	1165.43	900.34
	22.165	528.00	.00	.00	1395.00	5500.00	1405.25	.00	1405.46	20.42	5.39	1677.00	1216.98
	22.165	528.00	.00	.00	1395.00	5500.00	1406.06	.00	1406.42	24.51	6.31	1252.51	1110.85
*	22.273	570.00	.00	.00	1399.40	5500.00	1406.66	.00	1407.38	69.28	7.76	891.90	660.78
*	22.273	570.00	.00	.00	1399.40	5500.00	1407.61	.00	1408.32	51.27	7.48	878.62	768.12

1K/14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	22.410	723.00	.00	.00	1404.00	5500.00	1414.22	1414.22	1415.98	87.56	11.45	595.76	587.77
*	22.410	723.00	.00	.00	1404.00	5500.00	1414.09	1414.09	1416.01	96.64	11.88	559.69	559.49
*	22.483	385.00	.00	.00	1405.50	5500.00	1416.46	.00	1416.58	4.21	2.99	2093.87	2680.22
*	22.483	385.00	.00	.00	1405.50	5500.00	1416.74	.00	1417.04	9.90	4.55	1293.02	1748.37
*	22.578	502.00	.00	.00	1406.70	5500.00	1416.34	.00	1417.33	44.98	7.98	688.90	820.04
*	22.578	502.00	.00	.00	1406.70	5500.00	1417.22	.00	1418.01	31.42	7.12	772.83	981.28
*	22.675	512.00	.00	.00	1409.70	5500.00	1418.01	.00	1418.14	6.80	2.96	1858.05	2109.70
*	22.675	512.00	.00	.00	1409.70	5500.00	1418.72	.00	1418.96	11.07	3.91	1407.38	1652.73
*	22.794	628.00	.00	.00	1410.70	5500.00	1418.55	.00	1418.97	26.03	5.24	1072.89	1078.10
	22.794	628.00	.00	.00	1410.70	5500.00	1419.50	.00	1419.84	17.09	4.70	1175.60	1330.59
	22.880	454.00	.00	.00	1413.00	5500.00	1420.05	.00	1420.62	50.65	6.10	901.87	772.85
*	22.880	454.00	.00	.00	1413.00	5500.00	1420.53	.00	1421.31	62.85	7.09	775.93	693.77
	22.990	581.00	.00	.00	1417.90	5500.00	1423.63	.00	1424.26	78.40	6.32	869.80	621.14
	22.990	581.00	.00	.00	1417.90	5500.00	1424.63	.00	1425.77	90.71	8.56	642.83	577.47
*	23.097	565.00	.00	.00	1425.10	5500.00	1429.89	1429.89	1431.46	183.69	10.08	555.18	405.81
	23.097	565.00	.00	.00	1425.10	5500.00	1430.60	.00	1432.09	136.26	9.81	560.52	471.17
*	23.168	375.00	.00	.00	1428.90	5500.00	1433.05	.00	1433.22	19.25	3.49	1723.90	1253.68
*	23.168	375.00	.00	.00	1428.90	5500.00	1433.32	.00	1433.46	14.67	3.20	1891.73	1435.78
*	23.253	459.00	.00	.00	1425.20	3400.00	1434.53	1434.53	1437.36	149.19	13.49	252.01	278.36
*	23.253	459.00	.00	.00	1425.20	3400.00	1434.51	1434.51	1437.36	151.14	13.56	250.82	276.56
	23.334	417.00	.00	.00	1432.60	3400.00	1440.39	.00	1441.83	76.40	9.61	353.69	388.98
*	23.334	417.00	.00	.00	1432.60	3400.00	1440.41	.00	1441.84	75.80	9.59	354.66	390.52
	23.416	433.00	.00	.00	1436.50	3400.00	1443.82	.00	1445.60	94.42	10.68	318.26	349.91
	23.416	433.00	.00	.00	1436.50	3400.00	1443.82	.00	1445.60	94.62	10.69	318.03	349.54
	23.514	517.00	.00	.00	1439.60	3400.00	1448.11	.00	1449.46	59.37	9.32	364.79	441.27
	23.514	517.00	.00	.00	1439.60	3400.00	1448.11	.00	1449.46	59.33	9.32	364.88	441.43
	23.544	158.00	.00	.00	1441.40	3400.00	1448.91	.00	1450.79	95.52	10.99	309.40	347.89
	23.544	158.00	.00	.00	1441.40	3400.00	1448.91	.00	1450.79	95.48	10.99	309.44	347.95
*	23.555	60.00	1449.00	1445.00	1442.00	3400.00	1452.64	.00	1453.37	25.05	6.89	493.78	679.34
*	23.555	60.00	1449.00	1445.00	1442.00	3400.00	1452.64	.00	1453.37	25.05	6.89	493.78	679.34
	23.591	190.00	.00	.00	1444.20	3400.00	1453.15	.00	1453.93	32.92	7.11	478.47	592.54
	23.591	190.00	.00	.00	1444.20	3400.00	1453.15	.00	1453.93	32.92	7.11	478.47	592.54
	23.691	528.00	.00	.00	1446.40	3400.00	1455.15	.00	1456.48	65.85	9.24	367.91	418.99
	23.691	528.00	.00	.00	1446.40	3400.00	1455.15	.00	1456.48	65.85	9.24	367.91	418.99

KY14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	23.815	655.00	.00	.00	1449.70	4350.00	1459.01	.00	1460.09	47.97	8.35	520.93	628.10
*	23.815	655.00	.00	.00	1449.70	4350.00	1459.01	.00	1460.09	47.97	8.35	520.93	628.10
*	23.912	512.00	.00	.00	1447.90	5300.00	1461.04	.00	1462.18	35.58	8.56	619.09	888.54
*	23.912	512.00	.00	.00	1447.90	5300.00	1461.04	.00	1462.18	35.58	8.56	619.09	888.54
*	23.989	407.00	.00	.00	1449.70	5300.00	1462.61	.00	1463.23	18.01	6.35	834.96	1248.92
*	23.989	407.00	.00	.00	1449.70	5300.00	1462.61	.00	1463.23	18.01	6.35	834.96	1248.92
	24.086	512.00	.00	.00	1453.60	5300.00	1463.44	.00	1464.31	19.24	7.48	708.36	1208.36
	24.086	512.00	.00	.00	1453.60	5300.00	1463.44	.00	1464.31	19.24	7.48	708.36	1208.36
	24.096	56.00	1466.70	1462.20	1453.60	5300.00	1464.71	.00	1465.39	12.80	6.62	800.39	1481.19
	24.096	56.00	1466.70	1462.20	1453.60	5300.00	1464.71	.00	1465.39	12.80	6.62	800.39	1481.19
	24.106	53.00	.00	.00	1454.20	5300.00	1465.21	.00	1465.55	8.89	4.82	1198.54	1777.67
	24.106	53.00	.00	.00	1454.20	5300.00	1465.00	.00	1465.52	14.33	5.75	922.02	1399.85
*	24.195	470.00	.00	.00	1453.60	5300.00	1465.69	.00	1465.84	4.02	3.11	1706.81	2643.96
	24.195	470.00	.00	.00	1453.60	5300.00	1465.68	.00	1466.01	7.66	4.67	1134.88	1914.48
*	24.322	671.00	.00	.00	1451.60	5300.00	1465.91	.00	1465.95	.81	1.77	3457.15	5871.30
*	24.322	671.00	.00	.00	1451.60	5300.00	1466.17	.00	1466.31	2.62	3.11	1776.40	3277.22
*	24.444	644.00	.00	.00	1457.30	5300.00	1465.95	.00	1466.10	7.27	3.18	1730.97	1965.39
*	24.444	644.00	.00	.00	1457.30	5300.00	1466.37	.00	1466.70	14.43	4.64	1143.92	1395.12
*	24.542	517.00	.00	.00	1459.80	5300.00	1466.33	.00	1467.25	89.55	7.71	691.99	560.06
*	24.542	517.00	.00	.00	1459.80	5300.00	1467.31	.00	1468.35	74.20	8.19	647.35	615.27
	24.635	491.00	.00	.00	1466.80	5300.00	1472.05	1471.83	1473.32	174.10	9.07	584.25	401.67
*	24.635	491.00	.00	.00	1466.80	5300.00	1472.06	1471.86	1473.84	168.91	10.73	493.95	407.80
*	24.738	544.00	.00	.00	1472.00	5200.00	1476.89	.00	1477.18	33.56	4.33	1195.97	897.59
*	24.738	544.00	.00	.00	1472.00	5200.00	1477.80	.00	1478.28	42.42	5.58	934.60	798.42
*	24.838	528.00	.00	.00	1474.70	5200.00	1480.33	1480.33	1480.92	168.49	8.85	918.44	400.60
*	24.838	528.00	.00	.00	1474.70	5200.00	1480.98	.00	1481.73	139.20	8.87	786.86	440.73
*	24.943	554.00	.00	.00	1477.70	5200.00	1483.44	.00	1483.57	21.10	3.76	1891.70	1132.13
*	24.943	554.00	.00	.00	1477.70	5200.00	1484.36	.00	1484.58	25.29	4.54	1410.78	1033.99
*	25.048	554.00	.00	.00	1483.70	5200.00	1487.27	1487.27	1487.98	206.08	7.66	798.02	362.23
*	25.048	554.00	.00	.00	1483.70	5200.00	1487.63	1487.63	1488.57	227.55	8.84	676.21	344.72
*	25.163	607.00	.00	.00	1486.00	4900.00	1492.19	.00	1492.51	37.49	5.23	1115.73	800.31
*	25.163	607.00	.00	.00	1486.00	4900.00	1493.08	.00	1493.53	40.72	5.98	927.47	767.90
	25.262	523.00	.00	.00	1484.00	4900.00	1494.01	.00	1494.20	28.47	3.54	1407.53	918.37
	25.262	523.00	.00	.00	1484.00	4900.00	1495.04	.00	1495.36	30.91	4.49	1081.59	881.36

14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	25.374	591.00	.00	.00	1493.30	4900.00	1499.37	1499.37	1499.62	28.69	4.64	1219.18	914.76
*	25.374	591.00	.00	.00	1493.30	4900.00	1500.17	1500.17	1502.33	176.15	12.64	426.83	369.20
*	25.434	317.00	.00	.00	1495.80	4900.00	1503.97	1503.97	1506.92	117.21	13.78	355.50	452.60
	25.434	317.00	.00	.00	1495.80	4900.00	1504.17	1504.09	1506.91	105.72	13.30	368.40	476.57
*	25.500	349.00	.00	.00	1497.70	4900.00	1507.74	.00	1508.08	11.09	4.69	1043.72	1471.31
*	25.500	349.00	.00	.00	1497.70	4900.00	1507.65	.00	1508.42	18.94	7.02	698.04	1125.98
*	25.523	121.00	.00	.00	1496.00	4900.00	1507.99	.00	1508.19	3.31	3.95	1453.09	2693.02
*	25.523	121.00	.00	.00	1496.00	4900.00	1508.20	.00	1508.63	5.89	5.34	962.01	2018.88
*	25.534	58.00	.00	.00	1505.54	4900.00	1510.75	1510.75	1513.36	22.46	12.96	378.16	1033.93
*	25.534	58.00	.00	.00	1505.54	4900.00	1510.76	1510.76	1513.36	22.42	12.95	378.38	1034.91
*	25.551	90.00	.00	.00	1505.54	4900.00	1512.21	1510.75	1513.80	10.25	10.10	485.21	1530.36
*	25.551	90.00	.00	.00	1505.54	4900.00	1512.21	1510.75	1513.80	10.26	10.10	485.02	1529.40
	25.557	32.00	.00	.00	1505.54	4900.00	1512.08	.00	1514.01	13.85	11.16	438.95	1316.46
	25.557	32.00	.00	.00	1505.54	4900.00	1512.07	.00	1514.01	13.87	11.17	438.73	1315.51
	25.561	21.00	.00	.00	1505.60	2900.00	1514.36	.00	1514.55	5.29	3.51	825.44	1260.46
	25.561	21.00	.00	.00	1505.60	2900.00	1514.32	.00	1514.54	6.12	3.82	759.61	1172.48
*	25.680	628.00	.00	.00	1506.50	2700.00	1514.74	.00	1514.78	2.25	1.74	1826.16	1799.08
*	25.680	628.00	.00	.00	1506.50	2700.00	1514.80	.00	1515.26	21.79	5.41	499.50	578.41
*	25.786	560.00	.00	.00	1510.70	2500.00	1516.32	1516.32	1516.97	57.73	7.24	470.39	329.03
*	25.786	560.00	.00	.00	1510.70	2500.00	1516.35	1516.23	1517.71	97.06	9.43	275.78	253.76
	25.947	850.00	.00	.00	1514.40	2300.00	1521.07	.00	1521.63	52.25	6.24	395.73	318.20
*	25.947	850.00	.00	.00	1514.40	2300.00	1521.86	.00	1522.40	33.43	5.92	388.28	397.81
	26.058	586.00	.00	.00	1516.20	2200.00	1523.49	.00	1523.98	32.12	6.27	429.92	388.20
	26.058	586.00	.00	.00	1516.20	2200.00	1523.83	.00	1524.65	41.41	7.47	309.10	341.86
	26.152	496.00	.00	.00	1520.00	2000.00	1524.99	.00	1525.46	31.82	5.45	366.69	354.53
	26.152	496.00	.00	.00	1520.00	2000.00	1525.70	.00	1526.20	23.76	5.68	351.95	410.27
*	26.265	597.00	.00	.00	1522.00	1900.00	1528.15	1528.15	1529.39	95.30	9.23	229.49	194.63
*	26.265	597.00	.00	.00	1522.00	1900.00	1528.08	1528.08	1529.38	101.64	9.44	218.71	188.46
*	26.372	565.00	.00	.00	1523.80	1700.00	1531.35	.00	1531.67	19.79	4.57	372.17	382.13
*	26.372	565.00	.00	.00	1523.80	1700.00	1531.37	.00	1531.69	19.37	4.54	374.36	386.26
*	26.492	634.00	.00	.00	1525.70	1600.00	1532.15	.00	1532.22	4.42	2.22	720.91	760.94
*	26.492	634.00	.00	.00	1525.70	1600.00	1532.19	.00	1532.34	6.02	3.13	511.35	652.27
*	26.582	475.00	.00	.00	1524.10	1300.00	1532.24	.00	1532.24	.07	.46	3789.45	4850.37
	26.582	475.00	.00	.00	1524.10	1300.00	1532.43	.00	1532.52	2.21	2.39	544.09	875.36

ICM14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	26.673	480.00	.00	.00	1531.80	1300.00	1533.98	1533.98	1534.51	96.96	6.28	248.58	132.02
*	26.673	480.00	.00	.00	1531.80	1300.00	1534.94	1534.94	1536.17	109.65	8.91	145.96	124.15
*	26.784	586.00	.00	.00	1542.70	1100.00	1546.18	1546.18	1547.20	109.38	8.10	135.78	105.18
*	26.784	586.00	.00	.00	1542.70	1100.00	1546.25	1546.25	1547.49	105.42	8.94	123.09	107.14
*	26.883	523.00	.00	.00	1540.10	1000.00	1547.31	.00	1547.31	.05	.40	2671.91	4492.66
*	26.883	523.00	.00	.00	1540.10	1000.00	1547.92	.00	1548.02	2.46	2.56	391.26	637.12
*	26.984	533.00	.00	.00	1540.50	900.00	1547.31	.00	1547.32	.15	.60	1686.73	2356.67
*	26.984	533.00	.00	.00	1540.50	900.00	1548.07	.00	1548.24	6.45	3.29	273.28	354.31
*	27.060	401.00	.00	.00	1554.10	900.00	1559.46	1559.46	1561.02	101.53	10.02	89.81	89.32
*	27.060	401.00	.00	.00	1554.10	900.00	1559.45	1559.45	1561.02	102.11	10.05	89.59	89.07
*	27.166	560.00	.00	.00	1555.20	600.00	1562.18	.00	1562.35	6.44	3.31	181.45	236.47
*	27.166	560.00	.00	.00	1555.20	600.00	1562.18	.00	1562.35	6.42	3.30	181.63	236.89
	27.294	676.00	.00	.00	1556.00	400.00	1562.54	.00	1562.59	1.67	1.72	232.88	309.81
	27.294	676.00	.00	.00	1556.00	400.00	1562.54	.00	1562.59	1.67	1.72	232.86	309.80
	-19.560	729.00	.00	.00	1315.60	14600.00	1328.21	.00	1330.15	33.82	11.16	1307.90	2510.35
	-19.560	729.00	.00	.00	1315.60	14600.00	1328.21	.00	1330.15	33.82	11.16	1307.93	2510.44
*	.029	430.00	.00	.00	1319.60	9500.00	1329.35	1329.35	1332.60	18.21	14.47	672.25	2226.19
*	.029	430.00	.00	.00	1319.60	9500.00	1329.43	1329.43	1332.59	17.49	14.29	682.62	2271.54
*	.112	483.00	.00	.00	1321.50	9500.00	1332.94	.00	1333.44	8.28	5.68	1741.63	3301.76
*	.112	483.00	.00	.00	1321.50	9500.00	1332.88	.00	1333.42	8.47	5.92	1603.45	3265.17
	.198	454.00	.00	.00	1323.80	9500.00	1333.31	.00	1333.94	12.41	6.35	1509.08	2697.00
	.198	454.00	.00	.00	1323.80	9500.00	1333.26	.00	1333.92	12.57	6.51	1458.94	2679.22
*	.288	475.00	.00	.00	1325.70	9500.00	1333.31	1333.31	1335.83	79.20	12.74	745.67	1067.50
*	.288	475.00	.00	.00	1325.70	9500.00	1333.30	1333.30	1335.83	79.49	12.76	744.67	1065.52
*	.398	581.00	.00	.00	1328.80	9500.00	1337.27	.00	1338.35	24.85	8.34	1138.69	1905.63
*	.398	581.00	.00	.00	1328.80	9500.00	1337.27	.00	1338.35	24.78	8.34	1139.05	1908.24
*	.482	444.00	.00	.00	1331.20	9500.00	1342.35	1342.35	1343.41	22.95	9.54	1700.60	1983.17
*	.482	444.00	.00	.00	1331.20	9500.00	1341.64	1341.64	1344.13	49.24	13.16	829.47	1353.84
	.575	491.00	.00	.00	1331.50	9500.00	1343.82	.00	1344.53	21.43	7.36	1720.09	2052.00
*	.575	491.00	.00	.00	1331.50	9500.00	1344.84	.00	1345.71	18.90	7.56	1294.41	2185.45
	.697	644.00	.00	.00	1334.00	9400.00	1345.06	.00	1346.10	24.32	8.33	1195.43	1906.18
	.697	644.00	.00	.00	1334.00	9400.00	1345.95	.00	1346.90	17.39	7.86	1221.27	2254.40
*	.826	681.00	.00	.00	1338.80	9400.00	1348.29	1348.29	1350.53	79.73	12.38	830.07	1052.73
*	.826	681.00	.00	.00	1338.80	9400.00	1348.13	1348.13	1350.60	86.78	12.95	776.05	1009.08

K/L4PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	.945	628.00	.00	.00	1340.40	9400.00	1352.12	.00	1352.63	16.04	6.20	1847.46	2346.71
*	.945	628.00	.00	.00	1340.40	9400.00	1352.45	.00	1353.37	24.20	7.68	1223.92	1910.99
	1.035	475.00	.00	.00	1341.90	9400.00	1352.93	.00	1353.65	26.58	7.21	1503.77	1823.22
	1.035	475.00	.00	.00	1341.90	9400.00	1353.61	.00	1354.72	31.07	8.52	1118.91	1686.46
	1.121	454.00	.00	.00	1343.60	9400.00	1354.16	.00	1354.96	30.28	7.17	1315.12	1708.32
	1.121	454.00	.00	.00	1343.60	9400.00	1355.18	.00	1355.89	20.41	6.78	1387.04	2080.46
*	1.204	438.00	.00	.00	1344.30	9400.00	1355.42	1355.42	1357.51	78.29	12.18	903.84	1062.34
*	1.204	438.00	.00	.00	1344.30	9400.00	1355.74	.00	1357.83	71.64	11.99	867.22	1110.60
*	1.315	734.00	.00	.00	1348.80	9100.00	1359.33	.00	1359.72	13.96	5.34	1869.71	2435.48
*	1.315	734.00	.00	.00	1348.80	9100.00	1359.79	.00	1360.51	20.12	6.79	1340.51	2028.62
*	1.420	407.00	.00	.00	1354.00	8400.00	1361.00	.00	1361.67	15.50	9.46	1569.95	2133.74
*	1.420	407.00	.00	.00	1354.00	8400.00	1361.60	.00	1362.84	21.73	11.88	1102.30	1801.91

KV4PRINT

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	17.588	15400.00	1283.69	.00	.00	.00	451.78	.00
	17.588	15400.00	1284.69	1.00	.00	1.00	337.76	.00
*	17.662	15400.00	1283.82	.00	.13	.00	319.71	391.00
*	17.662	15400.00	1284.81	.99	.12	.99	250.00	391.00
*	17.783	15400.00	1285.58	.00	1.76	.00	201.37	639.00
*	17.783	15400.00	1286.37	.79	1.56	.79	143.00	639.00
	17.932	15400.00	1290.98	.00	5.40	.00	164.24	787.00
	17.932	15400.00	1291.41	.42	5.03	.42	110.00	787.00
*	18.042	15400.00	1294.31	.00	3.33	.00	96.76	581.00
*	18.042	15400.00	1294.43	.12	3.03	.12	96.78	581.00
	18.061	15400.00	1296.44	.00	2.13	.00	96.89	101.00
	18.061	15400.00	1296.69	.25	2.26	.25	96.91	101.00
*	18.081	15400.00	1299.54	.00	3.10	.00	229.58	106.00
*	18.081	15400.00	1299.61	.07	2.92	.07	185.00	106.00
	18.174	15400.00	1300.22	.00	.68	.00	597.84	491.00
	18.174	15400.00	1300.18	-.04	.57	-.04	267.98	491.00
*	18.269	15400.00	1300.17	.00	-.05	.00	228.73	502.00
	18.269	15400.00	1300.30	.12	.12	.12	227.80	502.00
	18.362	15400.00	1300.54	.00	.36	.00	212.97	491.00
	18.362	15400.00	1300.64	.11	.35	.11	212.20	491.00
*	18.445	15400.00	1305.39	.00	4.85	.00	386.47	440.00
*	18.445	15400.00	1305.16	-.23	4.52	-.23	253.31	440.00
*	18.456	15400.00	1307.31	.00	1.92	.00	443.73	60.00
*	18.456	15400.00	1308.18	.86	3.01	.86	255.00	60.00
*	18.545	15400.00	1308.28	.00	.97	.00	288.68	466.00
*	18.545	15400.00	1309.18	.89	1.00	.89	288.40	466.00
	18.575	15400.00	1308.43	.00	.14	.00	290.32	160.00
	18.575	15400.00	1309.29	.86	.11	.86	290.10	160.00
	18.583	15400.00	1309.50	.00	1.07	.00	301.44	40.00
	18.583	15400.00	1309.85	.35	.56	.35	301.10	40.00
	18.640	15400.00	1309.43	.00	-.07	.00	255.52	301.00
	18.640	15400.00	1309.78	.36	-.07	.36	255.10	301.00

1671 4PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	18.734	15400.00	1309.68	.00	.26	.00	228.83	496.00
	18.734	15400.00	1310.01	.33	.23	.33	228.50	496.00
	18.832	15400.00	1310.19	.00	.51	.00	216.17	517.00
	18.832	15400.00	1310.47	.28	.46	.28	215.20	517.00
	18.925	15400.00	1310.64	.00	.45	.00	200.07	491.00
	18.925	15400.00	1310.88	.24	.41	.24	199.80	491.00
*	19.018	15400.00	1310.89	.00	.26	.00	172.44	491.00
*	19.018	15400.00	1311.11	.21	.23	.21	172.20	491.00
*	19.117	15400.00	1312.49	.00	1.59	.00	120.09	523.00
*	19.117	15400.00	1312.69	.20	1.58	.20	119.80	523.00
*	19.210	15400.00	1317.19	.00	4.70	.00	158.26	491.00
*	19.210	15400.00	1317.09	-.09	4.41	-.09	157.47	491.00
*	19.283	14600.00	1319.92	.00	2.73	.00	109.00	386.00
*	19.283	14600.00	1319.92	.00	2.82	.00	109.00	386.00
*	19.299	14600.00	1322.06	.00	2.13	.00	109.00	86.00
*	19.299	14600.00	1322.06	.00	2.14	.00	109.00	86.00
	19.313	14600.00	1323.31	.00	1.25	.00	159.66	74.00
	19.313	14600.00	1323.30	.00	1.25	.00	159.64	74.00
	19.418	14600.00	1325.59	.00	2.29	.00	162.69	554.00
	19.418	14600.00	1325.59	.00	2.29	.00	162.69	554.00
	19.560	14600.00	1328.21	.00	2.62	.00	129.60	729.00
	19.560	14600.00	1328.21	.00	2.62	.00	129.63	729.00
*	19.625	5700.00	1329.89	.00	1.68	.00	60.00	364.00
	19.625	5700.00	1329.95	.06	1.74	.06	60.00	364.00
	19.691	5700.00	1331.53	.00	1.64	.00	60.00	350.00
	19.691	5700.00	1331.60	.07	1.65	.07	60.00	350.00
	19.742	5700.00	1331.99	.00	.46	.00	108.35	269.00
	19.742	5700.00	1332.03	.04	.43	.04	85.00	269.00
*	19.847	5700.00	1332.14	.00	.15	.00	109.85	554.00
*	19.847	5700.00	1332.14	.00	.11	.00	86.00	554.00
*	19.960	5700.00	1332.37	.00	.24	.00	86.88	597.00
*	19.960	5700.00	1332.43	.05	.29	.05	73.00	597.00
*	19.974	5700.00	1333.31	.00	.94	.00	51.00	74.00
*	19.974	5700.00	1333.67	.35	1.24	.35	51.00	74.00

K/L4PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	19.986	5700.00	1335.25	.00	1.94	.00	51.00	61.00
	19.986	5700.00	1335.72	.47	2.05	.47	51.00	61.00
*	20.049	5700.00	1338.35	.00	3.10	.00	53.63	333.00
*	20.049	5700.00	1338.20	-.15	2.49	-.15	49.93	333.00
*	20.144	5700.00	1343.48	.00	5.13	.00	83.94	502.00
*	20.144	5700.00	1343.38	-.11	5.17	-.11	57.00	502.00
	20.242	5700.00	1345.49	.00	2.00	.00	88.68	517.00
	20.242	5700.00	1345.51	.02	2.13	.02	71.00	517.00
	20.335	5700.00	1347.44	.00	1.95	.00	88.31	491.00
	20.335	5700.00	1347.54	.10	2.03	.10	73.00	491.00
	20.347	5700.00	1347.24	.00	-.20	.00	51.00	63.00
	20.347	5700.00	1347.42	.18	-.12	.18	51.00	63.00
	20.366	5700.00	1347.97	.00	.73	.00	51.00	100.00
	20.366	5700.00	1348.18	.22	.76	.22	51.00	100.00
	20.423	5700.00	1349.57	.00	1.60	.00	112.82	301.00
	20.423	5700.00	1349.71	.14	1.52	.14	113.80	301.00
	20.430	5700.00	1349.13	.00	-.44	.00	51.00	37.00
	20.430	5700.00	1349.27	.14	-.43	.14	51.00	37.00
	20.444	5700.00	1349.92	.00	.80	.00	51.00	70.00
	20.444	5700.00	1350.02	.10	.75	.10	51.00	70.00
	20.529	5700.00	1352.25	.00	2.33	.00	189.83	449.00
	20.529	5700.00	1352.24	-.01	2.22	-.01	139.00	449.00
	20.628	5700.00	1353.31	.00	1.06	.00	150.61	523.00
	20.628	5700.00	1353.34	.03	1.10	.03	130.00	523.00
*	20.725	5700.00	1356.04	.00	2.72	.00	67.22	512.00
*	20.725	5700.00	1355.94	-.09	2.60	-.09	64.00	512.00
*	20.737	5700.00	1358.17	.00	2.13	.00	51.00	80.00
*	20.737	5700.00	1358.20	.03	2.25	.03	51.00	80.00
*	20.750	5700.00	1360.60	.00	2.43	.00	51.00	71.00
*	20.750	5700.00	1360.60	.00	2.40	.00	51.00	71.00
*	20.819	5700.00	1362.37	.00	1.77	.00	78.00	365.00
*	20.819	5700.00	1362.37	.00	1.77	.00	78.00	365.00
*	20.841	5700.00	1364.38	.00	2.01	.00	78.00	115.00
*	20.841	5700.00	1364.38	.00	2.01	.00	78.00	115.00

IG14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	20.860	5700.00	1365.98	.00	1.60	.00	261.14	100.00
*	20.860	5700.00	1365.94	-.04	1.56	-.04	156.00	100.00
	20.942	5700.00	1367.29	.00	1.31	.00	313.22	433.00
*	20.942	5700.00	1367.23	-.06	1.29	-.06	250.00	433.00
*	21.036	5700.00	1371.95	.00	4.66	.00	520.10	496.00
*	21.036	5700.00	1371.48	-.47	4.25	-.47	250.00	496.00
*	21.127	5700.00	1374.75	.00	2.80	.00	434.39	480.00
	21.127	5700.00	1374.63	-.12	3.15	-.12	160.00	480.00
*	21.230	5700.00	1380.36	.00	5.62	.00	304.81	544.00
*	21.230	5700.00	1380.37	.00	5.74	.00	221.77	544.00
*	21.363	5700.00	1383.37	.00	3.00	.00	366.91	702.00
*	21.363	5700.00	1383.58	.21	3.21	.21	166.44	702.00
*	21.484	5700.00	1386.53	.00	3.16	.00	514.70	639.00
*	21.484	5700.00	1387.09	.57	3.51	.57	215.51	639.00
*	21.576	5700.00	1389.24	.00	2.71	.00	868.38	486.00
*	21.576	5700.00	1390.18	.94	3.08	.94	225.00	486.00
*	21.669	5500.00	1393.38	.00	4.13	.00	977.37	491.00
*	21.669	5500.00	1393.89	.52	3.72	.52	225.00	491.00
*	21.742	5500.00	1395.18	.00	1.80	.00	525.85	385.00
*	21.742	5500.00	1396.16	.98	2.27	.98	200.00	385.00
	21.840	5500.00	1398.04	.00	2.86	.00	437.88	517.00
*	21.840	5500.00	1397.92	-.12	1.76	-.12	200.00	517.00
*	21.895	5500.00	1399.67	.00	1.63	.00	596.22	290.00
	21.895	5500.00	1399.72	.05	1.80	.05	245.37	290.00
*	21.933	5500.00	1400.86	.00	1.19	.00	970.39	210.00
*	21.933	5500.00	1401.48	.62	1.77	.62	420.00	210.00
*	21.953	5500.00	1401.06	.00	.20	.00	459.91	74.00
*	21.953	5500.00	1401.20	.14	-.28	.14	310.27	74.00
*	22.065	5500.00	1404.08	.00	3.02	.00	777.84	591.00
*	22.065	5500.00	1404.48	.40	3.27	.40	396.88	591.00
	22.165	5500.00	1405.25	.00	1.17	.00	828.27	528.00
	22.165	5500.00	1406.06	.82	1.59	.82	381.09	528.00
*	22.273	5500.00	1406.66	.00	1.42	.00	419.21	570.00
*	22.273	5500.00	1407.61	.94	1.54	.94	292.44	570.00

ICI 4PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	22.410	5500.00	1414.22	.00	7.56	.00	193.61	723.00
*	22.410	5500.00	1414.09	-.14	6.48	-.14	159.26	723.00
*	22.483	5500.00	1416.46	.00	2.23	.00	325.09	385.00
*	22.483	5500.00	1416.74	.29	2.65	.29	160.00	385.00
*	22.578	5500.00	1416.34	.00	-.11	.00	95.82	502.00
*	22.578	5500.00	1417.22	.88	.48	.88	96.00	502.00
*	22.675	5500.00	1418.01	.00	1.66	.00	287.90	512.00
*	22.675	5500.00	1418.72	.71	1.50	.71	198.00	512.00
*	22.794	5500.00	1418.55	.00	.55	.00	215.74	628.00
	22.794	5500.00	1419.50	.95	.78	.95	183.00	628.00
	22.880	5500.00	1420.05	.00	1.49	.00	211.78	454.00
*	22.880	5500.00	1420.53	.49	1.03	.49	169.00	454.00
	22.990	5500.00	1423.63	.00	3.59	.00	272.08	581.00
	22.990	5500.00	1424.63	1.00	4.10	1.00	136.00	581.00
*	23.097	5500.00	1429.89	.00	6.25	.00	186.86	565.00
	23.097	5500.00	1430.60	.71	5.97	.71	132.00	565.00
*	23.168	5500.00	1433.05	.00	3.16	.00	609.23	375.00
*	23.168	5500.00	1433.32	.27	2.72	.27	628.93	375.00
*	23.253	3400.00	1434.53	.00	1.48	.00	44.74	459.00
*	23.253	3400.00	1434.51	-.03	1.19	-.03	44.65	459.00
	23.334	3400.00	1440.39	.00	5.86	.00	66.92	417.00
*	23.334	3400.00	1440.41	.01	5.90	.01	66.98	417.00
	23.416	3400.00	1443.82	.00	3.43	.00	59.14	433.00
	23.416	3400.00	1443.82	.00	3.41	.00	59.12	433.00
	23.514	3400.00	1448.11	.00	4.28	.00	57.47	517.00
	23.514	3400.00	1448.11	.00	4.29	.00	57.48	517.00
	23.544	3400.00	1448.91	.00	.80	.00	54.80	158.00
	23.544	3400.00	1448.91	.00	.80	.00	54.80	158.00
*	23.555	3400.00	1452.64	.00	3.72	.00	63.27	60.00
*	23.555	3400.00	1452.64	.00	3.72	.00	63.27	60.00
	23.591	3400.00	1453.15	.00	.51	.00	75.49	190.00
	23.591	3400.00	1453.15	.00	.51	.00	75.49	190.00
	23.691	3400.00	1455.15	.00	2.01	.00	65.33	528.00
	23.691	3400.00	1455.15	.00	2.01	.00	65.33	528.00

LV4PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	23.815	4350.00	1459.01	.00	3.86	.00	86.00	655.00
*	23.815	4350.00	1459.01	.00	3.86	.00	86.00	655.00
*	23.912	5300.00	1461.04	.00	2.03	.00	75.59	512.00
*	23.912	5300.00	1461.04	.00	2.03	.00	75.59	512.00
*	23.989	5300.00	1462.61	.00	1.56	.00	98.91	407.00
*	23.989	5300.00	1462.61	.00	1.56	.00	98.91	407.00
	24.086	5300.00	1463.44	.00	.83	.00	72.00	512.00
	24.086	5300.00	1463.44	.00	.83	.00	72.00	512.00
	24.096	5300.00	1464.71	.00	1.27	.00	72.00	56.00
	24.096	5300.00	1464.71	.00	1.27	.00	72.00	56.00
	24.106	5300.00	1465.21	.00	.50	.00	166.78	53.00
	24.106	5300.00	1465.00	-.21	.29	-.21	100.00	53.00
*	24.195	5300.00	1465.69	.00	.48	.00	196.58	470.00
	24.195	5300.00	1465.68	-.01	.67	-.01	100.00	470.00
*	24.322	5300.00	1465.91	.00	.22	.00	366.31	671.00
*	24.322	5300.00	1466.17	.26	.49	.26	140.00	671.00
*	24.444	5300.00	1465.95	.00	.04	.00	277.67	644.00
*	24.444	5300.00	1466.37	.41	.20	.41	153.00	644.00
*	24.542	5300.00	1466.33	.00	.37	.00	181.23	517.00
*	24.542	5300.00	1467.31	.98	.94	.98	121.98	517.00
	24.635	5300.00	1472.05	.00	5.72	.00	194.18	491.00
*	24.635	5300.00	1472.06	.01	4.75	.01	120.00	491.00
*	24.738	5200.00	1476.89	.00	4.84	.00	355.18	544.00
*	24.738	5200.00	1477.80	.91	5.74	.91	225.20	544.00
*	24.838	5200.00	1480.33	.00	3.44	.00	650.49	528.00
*	24.838	5200.00	1480.98	.66	3.18	.66	370.28	528.00
*	24.943	5200.00	1483.44	.00	3.12	.00	799.36	554.00
*	24.943	5200.00	1484.36	.92	3.38	.92	433.65	554.00
*	25.048	5200.00	1487.27	.00	3.83	.00	557.24	554.00
*	25.048	5200.00	1487.63	.36	3.27	.36	369.90	554.00
*	25.163	4900.00	1492.19	.00	4.92	.00	369.01	607.00
*	25.163	4900.00	1493.08	.89	5.45	.89	234.87	607.00
	25.262	4900.00	1494.01	.00	1.82	.00	521.78	523.00
	25.262	4900.00	1495.04	1.03	1.96	1.03	273.00	523.00

14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	25.374	4900.00	1499.37	.00	5.35	.00	367.07	591.00
*	25.374	4900.00	1500.17	.80	5.12	.80	98.00	591.00
*	25.434	4900.00	1503.97	.00	4.60	.00	65.40	317.00
	25.434	4900.00	1504.17	.20	4.00	.20	66.00	317.00
*	25.500	4900.00	1507.74	.00	3.77	.00	170.83	349.00
*	25.500	4900.00	1507.65	-.09	3.49	-.09	80.00	349.00
*	25.523	4900.00	1507.99	.00	.25	.00	161.62	121.00
*	25.523	4900.00	1508.20	.21	.55	.21	80.00	121.00
*	25.534	4900.00	1510.75	.00	2.76	.00	73.10	58.00
*	25.534	4900.00	1510.76	.00	2.56	.00	73.10	58.00
*	25.551	4900.00	1512.21	.00	1.46	.00	73.41	90.00
*	25.551	4900.00	1512.21	.00	1.46	.00	73.41	90.00
	25.557	4900.00	1512.08	.00	-.14	.00	80.27	32.00
	25.557	4900.00	1512.07	.00	-.14	.00	80.25	32.00
	25.561	2900.00	1514.36	.00	2.29	.00	117.68	21.00
	25.561	2900.00	1514.32	-.04	2.24	-.04	100.55	21.00
*	25.680	2700.00	1514.74	.00	.38	.00	663.75	628.00
*	25.680	2700.00	1514.80	.06	.48	.06	100.00	628.00
*	25.786	2500.00	1516.32	.00	1.58	.00	351.98	560.00
*	25.786	2500.00	1516.35	.03	1.55	.03	100.00	560.00
	25.947	2300.00	1521.07	.00	4.75	.00	164.54	850.00
*	25.947	2300.00	1521.86	.79	5.51	.79	100.00	850.00
	26.058	2200.00	1523.49	.00	2.42	.00	182.03	586.00
	26.058	2200.00	1523.83	.34	1.97	.34	73.00	586.00
	26.152	2000.00	1524.99	.00	1.50	.00	105.87	496.00
	26.152	2000.00	1525.70	.70	1.87	.70	70.00	496.00
*	26.265	1900.00	1528.15	.00	3.15	.00	103.26	597.00
*	26.265	1900.00	1528.08	-.07	2.38	-.07	86.66	597.00
*	26.372	1700.00	1531.35	.00	3.20	.00	97.17	565.00
*	26.372	1700.00	1531.37	.02	3.29	.02	96.95	565.00
*	26.492	1600.00	1532.15	.00	.80	.00	183.14	634.00
*	26.492	1600.00	1532.19	.04	.83	.04	90.00	634.00
*	26.582	1300.00	1532.24	.00	.09	.00	718.47	475.00
	26.582	1300.00	1532.43	.19	.24	.19	80.00	475.00

IC714PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	26.673	1300.00	1533.98	.00	1.74	.00	239.18	480.00
*	26.673	1300.00	1534.94	.96	2.51	.96	60.00	480.00
*	26.784	1100.00	1546.18	.00	12.20	.00	68.01	586.00
*	26.784	1100.00	1546.25	.07	11.32	.07	50.00	586.00
*	26.883	1000.00	1547.31	.00	1.13	.00	434.21	523.00
*	26.883	1000.00	1547.92	.61	1.67	.61	50.00	523.00
*	26.984	900.00	1547.31	.00	.00	.00	371.10	533.00
*	26.984	900.00	1548.07	.76	.15	.76	50.00	533.00
*	27.060	900.00	1559.46	.00	12.15	.00	29.47	401.00
*	27.060	900.00	1559.45	-.01	11.38	-.01	29.41	401.00
*	27.166	600.00	1562.18	.00	2.72	.00	38.99	560.00
*	27.166	600.00	1562.18	.00	2.72	.00	38.97	560.00
	27.294	400.00	1562.54	.00	.36	.00	50.20	676.00
	27.294	400.00	1562.54	.00	.36	.00	50.19	676.00
	-19.560	14600.00	1328.21	.00	-234.33	.00	129.62	729.00
	-19.560	14600.00	1328.21	.00	-234.33	.00	129.62	729.00
*	.029	9500.00	1329.35	.00	1.14	.00	130.50	430.00
*	.029	9500.00	1329.43	.08	1.22	.08	130.54	430.00
*	.112	9500.00	1332.94	.00	3.59	.00	330.25	483.00
*	.112	9500.00	1332.88	-.07	3.45	-.07	187.00	483.00
	.198	9500.00	1333.31	.00	.37	.00	249.57	454.00
	.198	9500.00	1333.26	-.05	.38	-.05	200.00	454.00
*	.288	9500.00	1333.31	.00	.00	.00	150.75	475.00
*	.288	9500.00	1333.30	-.01	.04	-.01	150.67	475.00
*	.398	9500.00	1337.27	.00	3.96	.00	181.83	581.00
*	.398	9500.00	1337.27	.00	3.96	.00	181.53	581.00
*	.482	9500.00	1342.35	.00	5.09	.00	889.74	444.00
*	.482	9500.00	1341.64	-.71	4.37	-.71	191.00	444.00
	.575	9500.00	1343.82	.00	1.47	.00	730.21	491.00
*	.575	9500.00	1344.84	1.01	3.20	1.01	210.00	491.00
	.697	9400.00	1345.06	.00	1.24	.00	237.20	644.00
	.697	9400.00	1345.95	.90	1.12	.90	160.00	644.00
*	.826	9400.00	1348.29	.00	3.24	.00	199.85	681.00
*	.826	9400.00	1348.13	-.17	2.17	-.17	160.00	681.00

K/14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	.945	9400.00	1352.12	.00	3.82	.00	561.70	628.00
*	.945	9400.00	1352.45	.34	4.32	.34	160.00	628.00
	1.035	9400.00	1352.93	.00	.82	.00	460.77	475.00
	1.035	9400.00	1353.61	.68	1.16	.68	160.00	475.00
	1.121	9400.00	1354.16	.00	1.23	.00	235.28	454.00
	1.121	9400.00	1355.18	1.02	1.57	1.02	160.00	454.00
*	1.204	9400.00	1355.42	.00	1.26	.00	226.07	438.00
*	1.204	9400.00	1355.74	.32	.56	.32	160.00	438.00
*	1.315	9100.00	1359.33	.00	3.91	.00	332.04	734.00
*	1.315	9100.00	1359.79	.46	4.05	.46	155.00	734.00
*	1.420	8400.00	1361.00	.00	1.67	.00	970.00	407.00
*	1.420	8400.00	1361.60	.60	1.81	.60	400.00	407.00

14PRINT

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     17.662  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     17.662  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     17.783  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     17.783  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.042  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.042  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.081  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.269  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     18.445  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     18.445  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     18.456  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.456  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.545  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.545  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.018  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.018  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.117  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.117  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     19.210  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.210  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.283  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.283  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     19.299  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     19.299  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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K714PRINT

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WARNING SECNO=     19.625  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.847  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.847  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.960  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.960  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.974  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.974  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.049  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.049  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.049  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.049  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.049  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.049  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     20.144  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.144  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.725  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.725  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.725  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.725  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.725  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.725  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     20.737  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.737  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.737  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.737  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.737  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.737  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     20.750  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=     20.750  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     20.750  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=     20.750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     20.819  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.819  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.841  PROFILE=  1  HYDRAULIC JUMP D.S.
CAUTION SECNO=     20.841  PROFILE=  2  HYDRAULIC JUMP D.S.

WARNING SECNO=     20.860  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.860  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     20.942  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.036  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.036  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
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14PRINT

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CAUTION SECNO=     21.036  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.036  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.036  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     21.127  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.127  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     21.230  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.230  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.230  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.230  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.230  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     21.363  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     21.363  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.484  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.484  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.484  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.484  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.484  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.484  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     21.576  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.576  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     21.576  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.669  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.669  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.669  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.669  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.669  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.669  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     21.742  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.742  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     21.742  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     21.840  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.895  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.895  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     21.933  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     21.933  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.953  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.953  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.953  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     21.953  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.065  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.065  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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14PRINT

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WARNING SECNO=     22.273  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.273  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     22.410  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     22.410  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     22.410  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     22.410  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     22.483  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.483  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.578  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.578  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.675  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.675  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.794  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.880  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     23.097  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     23.097  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     23.168  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.168  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     23.253  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     23.253  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     23.253  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     23.253  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     23.253  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     23.253  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     23.334  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.555  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.555  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.815  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.815  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.912  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.912  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.989  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.989  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.195  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.322  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.322  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.444  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     24.444  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.542  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.542  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.635  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.738  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.738  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     24.838  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     24.838  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     24.838  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.943  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.943  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.048  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.048  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.048  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.048  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.048  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.048  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     25.163  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.163  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.374  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.374  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.374  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.374  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.374  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.374  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     25.434  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.434  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.434  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     25.500  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.500  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.523  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.523  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.534  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.534  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.534  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.534  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.534  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.534  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     25.551  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.551  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     25.551  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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WARNING SECNO=     25.551  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.680  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.680  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.786  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.786  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.786  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.786  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.947  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     26.265  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.265  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.372  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.372  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.492  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.492  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.582  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     26.673  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.673  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.673  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     26.673  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.673  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.673  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     26.784  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.784  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.784  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     26.784  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.784  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.883  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.883  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.984  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.984  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     27.060  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.060  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.060  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     27.060  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.060  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.060  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     27.166  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     27.166  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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14PRINT

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CAUTION SECNO=      .029  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .029  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .029  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .029  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .029  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .029  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .112  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .112  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .288  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .288  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .288  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .288  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      .398  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .398  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .482  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .482  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .482  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .482  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .482  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .482  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .575  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      .826  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .826  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .826  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      .826  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      .826  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      .826  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      .945  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      .945  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     1.204  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     1.204  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     1.204  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     1.315  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     1.315  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

NOTE    SECNO=     1.420  PROFILE=  1  WSEL BASED ON X5 CARD
NOTE    SECNO=     1.420  PROFILE=  2  WSEL BASED ON X5 CARD
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14PRINT

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
17.588	338.	3195.	4.8	1284.7	1283.7	1.0
17.662	250.	1988.	7.7	1284.8	1283.8	1.0
17.783	143.	1271.	12.1	1286.4	1285.6	.8
17.932	110.	1047.	14.7	1291.4	1291.0	.4
18.042	97.	992.	15.5	1294.4	1294.3	.1
18.061	97.	1134.	13.6	1296.6	1296.4	.2
18.081	185.	2411.	6.4	1299.6	1299.5	.1
18.174	268.	3010.	5.1	1300.2	1300.2	.0
18.269	228.	2349.	6.6	1300.3	1300.2	.1
18.362	212.	2086.	7.4	1300.6	1300.5	.1
18.445	253.	1373.	11.2	1305.2	1305.4	-.2
18.456	255.	2040.	7.5	1308.2	1307.3	.9
18.545	288.	3292.	4.7	1309.2	1308.3	.9
18.575	290.	3326.	4.6	1309.3	1308.4	.9
18.583	301.	3469.	4.4	1309.9	1309.5	.4
18.640	255.	2665.	5.8	1309.8	1309.4	.4
18.734	228.	2302.	6.7	1310.0	1309.7	.3
18.832	215.	2253.	6.8	1310.5	1310.2	.3
18.925	200.	2130.	7.2	1310.8	1310.6	.2
19.018	172.	1517.	10.2	1311.1	1310.9	.2
19.117	120.	1023.	15.0	1312.7	1312.5	.2
19.210	157.	1461.	10.5	1317.1	1317.2	-.1
19.283	109.	896.	16.3	1319.9	1319.9	.0
19.299	109.	1129.	12.9	1322.1	1322.1	.0
19.313	160.	1330.	11.0	1323.3	1323.3	.0
19.418	163.	1343.	10.9	1325.6	1325.6	.0
19.560	130.	1308.	11.2	1328.2	1328.2	.0
19.625	60.	741.	7.7	1330.0	1329.9	.1
19.691	60.	780.	7.3	1331.6	1331.5	.1
19.742	85.	969.	5.9	1332.0	1332.0	.0
19.847	86.	868.	6.6	1332.1	1332.1	.0
19.960	73.	441.	12.9	1332.5	1332.4	.1
19.974	51.	503.	11.3	1333.7	1333.3	.4
19.986	51.	608.	9.4	1335.8	1335.3	.5
20.049	50.	366.	15.6	1338.2	1338.4	-.2
20.144	57.	536.	10.6	1343.4	1343.5	-.1
20.242	71.	561.	10.2	1345.5	1345.5	.0
20.335	73.	640.	8.9	1347.5	1347.4	.1
20.347	51.	521.	10.9	1347.4	1347.2	.2
20.366	51.	560.	10.2	1348.2	1348.0	.2
20.423	114.	796.	7.2	1349.7	1349.6	.1
20.430	51.	509.	11.2	1349.2	1349.1	.1

KK4PRINT

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
20.444	51.	547.	10.4	1350.0	1349.9	.1
20.529	139.	841.	6.8	1352.3	1352.3	.0
20.628	130.	1059.	5.4	1353.3	1353.3	.0
20.725	64.	398.	14.3	1355.9	1356.0	-.1
20.737	51.	372.	15.3	1358.2	1358.2	.0
20.750	51.	490.	11.6	1360.6	1360.6	.0
20.819	78.	458.	12.5	1362.4	1362.4	.0
20.841	78.	545.	10.5	1364.4	1364.4	.0
20.860	156.	852.	6.7	1366.0	1366.0	.0
20.942	250.	850.	6.7	1367.2	1367.3	-.1
21.036	250.	608.	9.4	1371.4	1371.9	-.5
21.127	160.	565.	10.1	1374.6	1374.7	-.1
21.230	225.	653.	8.7	1380.4	1380.4	.0
21.363	166.	986.	5.8	1383.6	1383.4	.2
21.484	225.	647.	8.8	1387.1	1386.5	.6
21.576	225.	815.	7.0	1390.1	1389.2	.9
21.669	225.	686.	8.0	1393.9	1393.4	.5
21.742	200.	832.	6.6	1396.2	1395.2	1.0
21.840	200.	686.	8.0	1397.9	1398.0	-.1
21.895	245.	702.	7.8	1399.7	1399.7	.0
21.933	420.	1566.	3.5	1401.5	1400.9	.6
21.953	421.	812.	6.8	1401.2	1401.1	.1
22.065	410.	1165.	4.7	1404.5	1404.1	.4
22.165	400.	1253.	4.4	1406.0	1405.2	.8
22.273	377.	879.	6.3	1407.6	1406.7	.9
22.410	180.	560.	9.8	1414.1	1414.2	-.1
22.483	160.	1293.	4.3	1416.8	1416.5	.3
22.578	96.	773.	7.1	1417.2	1416.3	.9
22.675	198.	1407.	3.9	1418.7	1418.0	.7
22.794	183.	1176.	4.7	1419.5	1418.6	.9
22.880	169.	776.	7.1	1420.5	1420.0	.5
22.990	136.	643.	8.6	1424.6	1423.6	1.0
23.097	132.	561.	9.8	1430.6	1429.9	.7
23.168	629.	1892.	2.9	1433.4	1433.1	.3
23.253	45.	251.	13.6	1434.5	1434.5	.0
23.334	67.	355.	9.6	1440.4	1440.4	.0
23.416	59.	318.	10.7	1443.8	1443.8	.0
23.514	57.	365.	9.3	1448.1	1448.1	.0
23.544	55.	309.	11.0	1448.9	1448.9	.0
23.555	63.	494.	6.9	1452.6	1452.6	.0
23.591	75.	478.	7.1	1453.1	1453.1	.0
23.691	65.	368.	9.2	1455.2	1455.2	.0

KC/14PRINT

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
23.815	86.	521.	8.4	1459.0	1459.0	.0
23.912	76.	619.	8.6	1461.0	1461.0	.0
23.989	99.	835.	6.3	1462.6	1462.6	.0
24.086	72.	708.	7.5	1463.4	1463.4	.0
24.096	72.	800.	6.6	1464.7	1464.7	.0
24.106	100.	922.	5.7	1465.0	1465.2	-.2
24.195	100.	1135.	4.7	1465.7	1465.7	.0
24.322	140.	1776.	3.0	1466.2	1465.9	.3
24.444	153.	1144.	4.6	1466.4	1466.0	.4
24.542	210.	647.	8.2	1467.3	1466.3	1.0
24.635	120.	494.	10.7	1472.0	1472.0	.0
24.738	264.	935.	5.6	1477.8	1476.9	.9
24.838	382.	787.	6.6	1481.0	1480.3	.7
24.943	440.	1411.	3.7	1484.3	1483.4	.9
25.048	400.	676.	7.7	1487.7	1487.3	.4
25.163	235.	927.	5.3	1493.1	1492.2	.9
25.262	273.	1082.	4.5	1495.0	1494.0	1.0
25.374	98.	427.	11.5	1500.2	1499.4	.8
25.434	66.	368.	13.3	1504.2	1504.0	.2
25.500	80.	698.	7.0	1507.6	1507.7	-.1
25.523	80.	962.	5.1	1508.2	1508.0	.2
25.534	73.	378.	12.9	1510.8	1510.8	.0
25.551	73.	485.	10.1	1512.2	1512.2	.0
25.557	80.	439.	11.2	1512.1	1512.1	.0
25.561	101.	760.	3.8	1514.4	1514.4	.0
25.680	100.	500.	5.4	1514.8	1514.7	.1
25.786	100.	276.	9.1	1516.3	1516.3	.0
25.947	100.	388.	5.9	1521.9	1521.1	.8
26.058	73.	309.	7.1	1523.8	1523.5	.3
26.152	70.	352.	5.7	1525.7	1525.0	.7
26.265	87.	219.	8.7	1528.0	1528.1	-.1
26.372	97.	374.	4.5	1531.3	1531.3	.0
26.492	90.	511.	3.1	1532.1	1532.1	.0
26.582	80.	544.	2.4	1532.4	1532.2	.2
26.673	60.	146.	8.9	1535.0	1534.0	1.0
26.784	50.	123.	8.9	1546.3	1546.2	.1
26.883	50.	391.	2.6	1547.9	1547.3	.6
26.984	50.	273.	3.3	1548.1	1547.3	.8
27.060	29.	90.	10.0	1559.5	1559.5	.0
27.166	39.	182.	3.3	1562.2	1562.2	.0
27.294	50.	233.	1.7	1562.5	1562.5	.0
-19.560	130.	1308.	11.2	1328.2	1328.2	.0

KCI4PRINT

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
.029	131.	683.	13.9	1329.5	1329.4	.1
.112	187.	1603.	5.9	1332.8	1332.9	-.1
.198	200.	1459.	6.5	1333.3	1333.3	.0
.288	151.	745.	12.8	1333.3	1333.3	.0
.398	182.	1139.	8.3	1337.3	1337.3	.0
.482	191.	829.	11.5	1341.7	1342.4	-.7
.575	210.	1294.	7.3	1344.8	1343.8	1.0
.697	160.	1221.	7.7	1346.0	1345.1	.9
.826	160.	776.	12.1	1348.1	1348.3	-.2
.945	160.	1224.	7.7	1352.4	1352.1	.3
1.035	160.	1119.	8.4	1353.6	1352.9	.7
1.121	160.	1387.	6.8	1355.2	1354.2	1.0
1.204	160.	867.	10.8	1355.7	1355.4	.3
1.315	155.	1341.	6.8	1359.8	1359.3	.5
1.420	400.	1102.	7.6	1361.6	1361.0	.6

1671 4PRINT

CAVEFWC.OUT

(CORRECTED EFFECTIVE FLOODWAY MODEL)

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**********************************************
*  HEC-2 WATER SURFACE PROFILES              *
*                                            *
*  Version   4.6.2;  May 1991                *
*                                            *
*  RUN DATE    14OCT04    TIME   14:18:11    *
**********************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS        *
*  HYDROLOGIC ENGINEERING CENTER       *
*  609 SECOND STREET, SUITE D          *
*  DAVIS, CALIFORNIA 95616-4687        *
*           (916) 756-1104             *
****************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X           X     X
X     X  X        X                       X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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14PRINT

THIS RUN EXECUTED 14OCT04 14:18:11

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**********************************************
 HEC-2 WATER SURFACE PROFILES

 Version  4.6.2;  May 1991
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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          NATURAL 100-YR  J. MISCHLER


        CORRECTED EFFECTIVE MODEL FOR SWEETWATER PARK CLOMR APPLICATION
        BY PREMIER ENGINEERING CORPORATION, APRIL 2002
        FILENAME: CAVEFWC.DAT

        NEW TOPOGRAPHIC MAPPING PREPARED BY AERIAL MAPPING COMPANY,
        SEPTMBER 2000 UNDER JOB NUMBER 00145.  MAPPING CONTOUR INTERVAL IS
        1 FOOT.

        THE ONLY CHANGES MADE TO THIS MODEL BY PREMIER ARE:
           1. CROSS SECTION ADDED AT RM 17.505;
           2. FLOODWAY ENCROACHMENTS USED AT SECTION 17.505 AT LOCATIONS
              SCALED FROM EFFECTIVE STUDY WORK MAP;
           3. THE NATURAL (PROFILE 1) WATER SURFACE ELEVATION MATCHES THE
              COMPUTED WATER SURFACE ELEVATION AT SECTION 17.505 FROM FILE
              CAVESUBC.OUT; THE FLOODWAY STARTING WSE IS SET 1 FOOT HIGHER;
           2. GR DATA AT CROSS SECTION 17.588 HAVE BEEN MODIFIED USING NEW
              TOPOGRAPHIC MAPPING PROVIDED BY AERIAL MAPPING COMPANY AS
              DESCRIBED ABOVE, AND
           3. THE FLOODWAY ENCROACHMENT STATIONS AT SECTION 17.588 ARE SET
              EQUAL TO THE FLOODWAY STATIONS OF THE EFFECTIVE MODEL; THE
              EFFECTIVE MODEL USED METHOD 4 AT SECTION 17.588, WHEREAS THIS
              MODEL USES METHOD 1.

        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
        AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
        ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
        BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
        DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
        FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
        THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
        AND 100 YEAR FLOODS.

        FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.

        FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
        RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)

        FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
        BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
        IS RUN FOR THIS REACH.
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14-4PRINT

FILE LAST MODIFIED 11-26-90

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2.							1281.48	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.		-1.							15.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

150 200

QT	2.	15400.	15400.							
NC	0.03	0.03	0.03	0.1	0.3					
ET			4.1	9910.	10155.					
X1	17.505	43	9921	10090	30	85	58			
X3						10205				
GR	1284.9	9810	1283.9	9831	1282.9	9857	1281.9	9884	1280.9	9903
GR	1279.9	9912	1278.9	9921	1277.9	9931	1276.9	9938	1275.9	9952
GR	1274.9	9964	1273.9	9978	1272.9	9990	1269.9	9992	1268.9	10000
GR	1268.9	10010	1268.9	10015	1272.9	10022	1273.9	10026	1274.9	10030
GR	1275.9	10036	1276.9	10057	1277.9	10082	1278.9	10090	1279.9	10131
GR	1281.9	10166	1282.9	10178	1283.9	10189	1284.5	10205	1283.9	10210
GR	1282.9	10214	1281.9	10219	1279.9	10225	1278.9	10231	1277.9	10239
GR	1276.9	10247	1276.9	10252	1277.9	10263	1278.9	10274	1279.9	10279
GR	1282.9	10293	1282.9	10310	1283.9	10339				
NC	0.04	0.04	0.04							

BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN

ET			4.1	9855.24	10193.					
X1	17.588	33.	9966.	10200.	410.	475.	438.			
GR	1289.9	9745	1284.9	9772	1279.9	9800	1275.9	9820	1275.9	9839
GR	1274.9	9851	1274.9	9859	1278.9	9870	1279.9	9874	1280.9	9880
GR	1280.9	9890	1279.9	9903	1279.9	9908	1281.9	9915	1281.9	9948
GR	1280.9	9965	1279.9	9966	1270.9	9978	1270.5	9982	1270.5	9992
GR	1270.9	9995	1274.9	10006	1275.2	10020	1274.9	10038	1273.9	10053
GR	1273.9	10062	1274.9	10085	1273.9	10101	1272.9	10115	1272.9	10163
GR	1279.9	10200	1284.9	10228	1289.9	10256				
ET			4.1	9900.	10150.					
X1	17.662	23.	9941.	10130.	380.	400.	391.			
GR	1293.1	9731.	1293.1	9781.	1291.6	9791.	1282.7	9835.	1278.1	9844.
GR	1279.2	9871.	1277.3	9911.	1276.4	9941.	1272.5	9986.	1271.6	10000.
GR	1274.6	10016.	1277.5	10033.	1278.8	10063.	1278.9	10086.	1276.8	10099.
GR	1275.7	10111.	1281.6	10130.	1285.2	10161.	1293.1	10208.	1294.	10221.

14PRINT

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GR   1293.7     10281.      1294.     10400.      1294.5     10432.

ET                          10.41
X1   17.783        18.      9921.     10064.       540.       500.       639.
GR   1295.2      9812.      1294.      9837.      1291.3      9861.     1286.9     9895.     1280.5     9921.
GR   1276.8      9938.      1278.3     9954.      1277.6      9973.     1275.4    10000.     1276.3    10019.
GR   1277.4     10033.      1277.7    10045.      1281.1     10064.     1281.3    10074.     1284.6    10097.
GR   1289.8     10122.      1291.5    10143.      1291.9     10153.

X1   17.932        23.      9956.     10066.       790.       780.       787.
GR   1294.8      9675.      1294.7     9732.      1295.5      9750.     1293.6     9766.     1297.5     9792.
GR   1297.5      9837.      1298.3     9869.      1291.9      9896.     1289.7     9956.     1283.6     9966.
GR   1283.5      9971.      1277.9     9986.      1278.2     10000.     1278.2    10006.     1279.5    10008.
GR   1279.9     10022.      1280.2    10032.      1285.5     10054.     1290.2    10066.     1290.6    10083.
GR   1298.5     10131.      1299.7    10159.      1299.7     10193.

        THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT
        OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE,
        THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND
        ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS.  ENDS OF THE
        SECTIONS ARE ARTIFICIALLY EXTENDED.  BT'S ARE RAISED 0.5' FROM CENTER-
        LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.

                        4.1   9951.  10049.

NC   0.035      0.035      0.025        0.3         0.5
X1   18.042        8.      9951.     10049.       620.       550.       581.                 2.4
GR    1305.     9951.      1283.4     9952.      1282.9      9979.     1279.9     9980.     1279.9    10020.
GR   1281.9     10021.      1284.2    10048.       1305.     10049.

SB    1.05       1.56         3.                    75.         4.       1059.        0.81      1280.2     1279.9
NC    0.03       0.03       0.025
                        4.11   9951.  10049.
X1   18.061                                          101.       101.       101.                 0.8

        ELTRD IS 1298.4+3.2HV =  1301.6

X2                                 1.      1293.2     1301.6
BT       4.        9951.       1305.          0.       9952.      1298.4          0.      10048.     1298.4          0.
BT   10049.        1305.          0.

NC   0.035      0.035      0.035
ET                                 4.1      9900.      10085.
X1   18.081        11.      9942.     10045.        80.       130.       106.
GR   1300.5      9819.      1300.2     9866.      1298.2      9899.     1286.6     9942.     1282.7     9960.
GR   1281.4     10000.      1281.1    10008.      1282.7     10030.     1284.9    10045.     1297.3    10088.
GR   1300.2     10112.

NC                                           0.1         0.3
ET                                 4.1      9857.      10125.
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K/14PRINT

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X1   18.174      29.     9919.    10073.      500.      490.      491.
GR   1303.6     9673.    1304.6    9713.    1307.3     9757.    1302.5    9801.     1302.     9850.
GR    1288.     9904.    1287.3    9915.    1288.7     9919.     1284.    9927.    1283.5     9956.
GR   1282.6     9975.    1283.5    9985.    1281.8     9992.    1281.7   10000.     1282.    10006.
GR   1282.3    10011.    1282.7   10020.    1294.6    10073.     1297.   10093.    1296.2    10113.
GR   1293.7    10142.    1293.7   10182.    1296.8    10236.    1299.3   10270.    1298.9    10295.
GR    1298.    10340.    1299.8   10364.     1298.    10396.    1301.1   10478.

ET                       4.1     9882.2    10110.
X1   18.269      12.     9942.    10060.      500.      500.      502.
GR   1303.8     9868.    1288.1    9928.    1288.4     9942.    1285.3    9952.    1283.8     9979.
GR   1283.8    10000.    1283.8   10010.    1285.6    10023.    1292.4   10060.     1294.    10071.
GR   1303.2    10130.    1303.7   10144.

ET                       4.1     9895.6    10107.8
X1   18.362      20.     9942.    10060.      490.      510.      491.
GR   1315.5     9728.    1315.4    9758.    1315.8     9780.    1310.6    9807.    1307.1     9862.
GR   1298.6     9905.    1290.     9942.    1287.8     9952.     1288.    9967.    1286.1     9971.
GR   1285.3    10000.    1286.8   10022.    1286.8    10036.    1290.6   10060.    1303.8    10124.
GR   1307.7    10151.    1307.5   10169.    1306.8    10183.    1308.1   10240.    1308.8    10283.

        DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
        ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).


ET                       4.1     9885.     10140.
X1   18.445      13.     9992.    10005.      470.      460.      440.
X3      10.                                                    1297.     1297.
GR   1315.1     9796.    1306.2    9880.    1300.     9920.    1299.5    9978.     1290.     9992.
GR   1287.3    10000.    1290.    10005.    1300.    10040.     1302.   10060.     1303.    10097.
GR    1305.    10200.    1305.6   10310.    1309.4    10330.

SB      0.9      2.34       3.0       0.      6.11       1.0      33.2       0.     1287.7     1287.4
ET                       4.11     9885.     10140.
X1   18.456                                    60.       60.       60.                0.4

        ELTRD IS 1198.8+0.7HV = 1199.5

X2                       1.      1294.2    1299.5
X3      10.                                                    1298.8    1298.8
BT      10.      9796.    1315.5       0.     9880.     1306.6       0.     9928.    1301.9        0.
BT    9991.     1299.1       0.   10000.    1298.8        0.   10046.    1301.9        0.    10097.
BT   1303.4        0.   10200.    1305.4        0.    10310.    1306.        0.    10330.    1309.8
BT      0.

ET                       4.1     9881.4    10169.8
X1   18.545      21.     9951.    10058.      440.      480.      466.
GR   1324.2     9716.    1323.1    9748.    1324.4     9765.    1321.9    9790.    1318.3     9810.
GR    1317.     9839.    1306.7    9889.    1294.1     9951.    1291.5    9972.    1289.3     9993.
GR   1289.7    10000.    1289.7   10018.    1290.5    10040.    1293.8   10058.    1298.8    10073.
GR   1299.8    10094.    1303.4   10108.    1303.9    10121.     1303.   10135.    1310.1    10182.
GR   1310.2    10194.

        UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
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14PRINT

45 DEGREE WINGWALLS.

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ET                      4.1     9880.7  10170.8
X1  18.575      21.     9972.   10000.    160.    160.    160.
X3     10.                                          1297.   1297.
GR  1324.2    9716.   1323.1   9748.   1324.4   9765.   1321.9   9790.   1318.3   9810.
GR  1317.     9839.   1306.7   9889.   1294.1   9951.   1291.5   9972.   1289.3   9993.
GR  1289.7   10000.   1289.7  10018.   1290.5  10040.   1293.8  10058.   1298.8  10073.
GR  1299.8   10094.   1303.4  10108.   1303.9  10121.   1303.   10135.   1310.1  10182.
GR  1310.2   10194.

SB    1.25      1.56    3.0      0.     10.4     1.0     56.5     0.      1289.4  1289.3
ET                      4.11    9876.1  10177.2
X1  18.583                              40.     40.     40.              0.1

      ELTRD IS 1298.4+0.6HV = 1299.0

X2                      1.      1295.4  1299.
X3     10.                                          1298.4  1298.4
BT      9.    9880.    1310.      0.     9965.    1300.      0.    10000.  1298.4     0.
BT  10037.    1300.       0.  10065.     1302.       0.  10085.     1304.      0.  10122.
BT   1306.       0.   10160.   1308.        0.  10170.     1310.       0.

ET                      4.1     9879.6  10134.7
X1  18.640      17.     9955.   10033.    300.    310.    301.
GR  1322.5    9707.   1323.7   9729.   1320.1   9768.   1313.8   9827.   1312.3   9858.
GR  1308.4    9887.   1302.6   9920.   1294.6   9955.   1292.8   9966.   1290.2   9993.
GR  1291.5   10000.   1291.8  10009.   1293.4  10033.   1307.8  10111.   1309.   10132.
GR  1312.1   10153.   1313.2  10167.

ET                      4.1     9883.2  10111.7
X1  18.734      19.     9938.   10062.    490.    500.    496.
GR  1320.7    9713.   1316.3   9762.   1316.6   9809.   1319.2   9819.   1317.9   9841.
GR  1308.7    9888.   1298.6   9938.   1293.4   9971.   1294.2   9981.   1292.4   9992.
GR  1294.5   10000.   1294.4  10025.   1300.8  10062.   1309.   10094.   1307.6  10104.
GR  1312.9   10124.   1314.   10143.   1317.1  10178.   1319.9  10201.

ET                      4.1     9891.8  10107.
X1  18.832      21.     9929.   10046.    480.    540.    517.
GR  1326.2    9779.   1328.    9788.   1320.6   9826.   1316.    9853.   1312.5   9880.
GR  1302.8    9929.   1296.1   9960.   1293.5   9982.   1293.2  10000.   1293.2  10005.
GR  1294.8   10008.   1295.5  10027.   1297.1  10046.   1307.7  10095.   1314.1  10128.
GR  1314.1   10141.   1317.1  10187.   1320.3  10221.   1319.9  10247.   1318.6  10271.
GR  1319.2   10278.

ET                      4.1     9887.7  10087.5
X1  18.925      14.     9941.   10048.    480.    500.    491.
GR  1329.1    9741.   1315.9   9866.   1297.6   9941.   1297.3   9960.   1295.3   9989.
GR  1295.    10000.   1296.1  10006.   1295.4  10022.   1294.6  10025.   1296.3  10034.
GR  1300.    10048.   1310.5  10087.   1320.1  10132.   1321.3  10161.
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IC71.4PRINT

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ET                          4.1     9866.3    10038.5
X1   19.018      20.      9903.     10030.      460.      520.      491.
GR    1331.     9681.     1321.2     9775.     1313.9     9847.     1305.1     9903.     1298.1     9930.
GR    1298.     9948.     1298.1     9957.     1297.6     9974.     1299.     10000.     1308.4    10030.
GR   1325.3    10088.     1327.     10101.     1325.5    10109.     1330.2    10118.     1330.9    10124.
GR    1327.    10145.     1326.8    10211.     1328.8    10218.     1332.6    10260.     1331.8    10268.

ET                          4.1     9942.1    10061.9
X1   19.117      10.      9973.     10026.      490.      560.      523.
GR   1333.9     9803.     1331.8     9872.     1323.     9908.     1302.9     9973.     1299.2     9997.
GR   1298.7    10000.     1298.6    10010.     1301.5    10026.     1328.9    10116.     1333.     10144.

ET                          4.1     9923.1    10081.
X1   19.210      16.      9945.     10060.      500.      490.      491.
GR   1333.2     9669.     1330.6     9853.     1328.7     9874.     1312.      9945.     1310.      9954.
GR   1303.8     9978.     1301.4     9991.     1300.2    10000.     1301.3    10010.     1303.4    10026.
GR    1312.    10060.     1321.3    10098.     1327.     10127.     1332.5    10166.     1335.3    10191.
GR   1335.6    10192.

       19TH AVENUE  (SPECIAL BRIDGE)

NC                                    0.3       0.5
QT       2.    14600.    14600.
X1   19.283      12.      9948.     10057.      390.      390.      386.                  11.2
X3      10.                                                                 1324.     1324.
GR   1333.2     9669.     1330.6     9853.     1328.7     9874.     1312.      9945.     1300.5     9948.
GR   1300.5    10057.     1312.     10060.     1321.3    10098.     1327.     10127.     1332.5    10166.
GR   1335.3    10191.     1335.6    10192.

SB       0.9      1.56        3.                109.       4.5      1304.        0.     1311.7     1311.7
X1   19.299                                     86.       86.       86.

       ELTRD IS 1324.5+2HV = 1326.5

X2                          1.      1324.2    1326.5
X3      10.                                                                 1325.     1325.
BT       6.     9500.     1326.        0.      9650.     1324.5       0.     9855.     1325.3       0.
BT   10000.     1325.7       0.    10275.     1324.9        0.    10460.     1326.        0.

ET                         10.41
X1   19.313      20.      9932.     10112.       75.       75.       74.
GR    1329.     9853.     1326.7     9859.     1327.6     9866.     1327.9     9932.     1314.5     9968.
GR   1312.2     9980.     1311.7     9988.     1313.1     9996.     1313.1    10000.     1313.4    10017.
GR    1312.    10029.     1313.7    10044.     1311.7    10054.     1313.7    10069.     1325.5    10112.
GR   1325.4    10137.     1324.3    10180.     1324.9    10219.     1325.2    10325.     1326.6    10464.

NC                                  0.1       0.3
X1   19.418      19.      9948.     10120.      570.      530.      554.
GR   1330.8     9898.     1328.8     9902.     1330.6     9910.     1330.2     9938.     1328.      9948.
GR   1313.1     9992.     1313.1    10000.     1313.      10004.    1316.1     10022.    1314.6    10058.
GR   1315.5    10076.     1320.1    10094.     1326.1    10120.     1327.6     10138.    1327.5    10186.
GR   1326.2    10276.     1327.     10322.     1328.3    10376.     1328.6     10401.
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14PRINT

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      SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
      FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
      EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608


X1   19.56       17.     9929.    10065.      730.      720.      729.
GR   1346.1     9801.   1329.7     9902.   1329.7     9929.   1316.5    9950.   1316.8    9978.
GR   1315.6    10000.   1315.6    10008.   1316.6    10026.   1316.4   10035.   1317.5   10043.
GR   1330.6    10065.   1330.8    10099.   1330.5    10146.   1330.2   10195.   1330.9   10208.
GR   1331.2    10223.   1332.1    10301.

      GREENWAY BRIDGE  (SPECIAL BRIDGE).  LARGE SKEW ACCOUNTED FOR PRIOR
      TO DATA INPUT BY ADJUSTING BWC ETC.  DUE TO COMPLEX CHANNEL GEOMETRY
      DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE
      TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE.  GR CARDS
      FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7


QT       2.     5700.     5700.
NC   0.035     0.035     0.015       0.3       0.5
X1   19.625       11.     9965.    10025.      580.       70.      364.              -1.7
X3      10.                                                              1332.     1332.
GR   1335.7     9834.   1335.1     9893.   1333.4     9922.   1331.8    9937.   1331.6    9948.
GR   1319.3     9965.   1319.3    10025.   1331.     10042.   1339.2   10055.   1337.7   10060.
GR   1338.8    10100.

SB    1.05      1.56        3.      100.      60.        2.      564.        0.   1318.6    1317.6
X1   19.691                                 330.      430.      350.              1.0

      ELTRD IS 1332.8+2HV = 1334.8

X2                             1.    1328.3    1334.8
X3      10.                                                              1333.     1333.

ET                           4.1     9953.    10038.
X1   19.742       13.     9948.    10042.       80.      470.      269.
GR   1335.7     9834.   1335.1     9893.   1333.4     9922.   1331.8    9937.   1331.6    9948.
GR   1319.1     9967.   1319.2    10000.   1319.7    10017.   1319.7   10027.   1331.    10042.
GR   1339.2    10055.   1337.7    10060.   1338.8    10100.

NC   0.035     0.035     0.035       0.1       0.3
ET                           4.1     9957.    10043.
X1   19.847       22.     9929.    10062.      570.      520.      554.
GR   1339.8     9621.   1338.7     9726.   1341.6     9738.   1338.8    9759.   1339.     9806.
GR   1337.7     9915.   1336.1     9921.   1336.3     9929.   1320.2    9974.   1318.8    9989.
GR   1320.8    10000.   1320.5    10017.   1321.3    10023.   1328.8   10040.   1335.8   10062.
GR   1336.1    10070.   1336.6    10084.   1335.8    10150.   1336.    10160.   1338.3   10175.
GR   1339.2    10195.   1339.2    10198.
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ET                                4.1     9958.    10031.
X1   19.960      24.     9958.    10031.    640.     560.     597.
GR   1340.4     9544.    1339.1   9638.    1336.7   9736.    1337.2   9768.    1338.2   9807.
GR   1338.9     9836.    1338.4   9908.    1340.1   9911.    1337.7   9917.    1339.1   9924.
GR   1337.2     9935.    1330.    9958.    1327.8   9964.    1326.1   9977.    1324.6   9990.
GR   1324.7    10000.    1326.1   10008.   1326.8   10023.   1330.    10031.   1340.6   10059.
GR   1340.8    10072.    1340.7   10099.   1340.1   10194.   1339.9   10251.

       TIERRA BUENA  (SPECIAL BRIDGE)


       DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED
       FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD
       AND UNION HILLS DRIVE


NC     0.04      0.04     0.035     0.3      0.5
ET                        4.1      9969.    10020.
X1   19.974       10.     9969.    10020.    105.     65.      74.
X3     10.                                                    1336.    1336.
GR   1340.1     9911.    1337.7   9917.    1339.1   9924.    1337.2   9935.    1330.    9958.
GR   1323.8     9969.    1323.8   10020.   1330.    10031.   1340.6   10059.   1340.8   10072.

SB     1.25      1.56      3.               51.      3.       480.      0.      1324.1   1323.8
ET                        4.11     9969.    10020.
X1   19.986                                 61.      61.      61.

       ELTRD IS 1336.9+1HV = 1337.9

X2                        1.      1334.1   1337.9
X3     10.                                                    1337.    1337.
BT      3.      9560.    1340.      0.     10000.   1336.9     0.     10230.   1340.      0.

ET                        4.1      9975.    10025.
X1   20.049       37.     9954.    10027.    305.     345.     333.
X3     10.                                                    1340.
GR   1344.7     9266.    1345.2   9300.    1342.4   9304.    1340.8   9328.    1332.6   9344.
GR   1333.1     9400.    1333.3   9490.    1334.    9563.    1334.8   9606.    1333.2   9728.
GR    1335.     9767.    1331.4   9805.    1331.    9820.    1331.5   9854.    1331.5   9901.
GR   1332.1     9920.    1341.1   9938.    1340.5   9950.    1343.4   9954.    1339.8   9969.
GR   1327.4     9991.    1327.1   9997.    1327.1   10000.   1328.4   10008.   1339.4   10027.
GR    1340.    10047.    1342.3   10075.   1342.4   10097.   1340.2   10114.   1342.3   10131.
GR    1343.    10142.    1341.5   10162.   1342.7   10175.   1342.9   10210.   1343.3   10307.
GR   1342.5    10378.    1343.    10477.

NC                                0.1      0.3
ET                        4.1      9972.    10029.
X1   20.144       38.     9955.    10025.    490.     500.     502.
X3     10.                                                    1344.
GR   1346.6     9136.    1347.4   9206.    1348.2   9208.    1348.4   9215.    1347.1   9235.
GR   1342.5     9239.    1341.7   9258.    1334.6   9278.    1332.    9297.    1332.6   9357.
GR   1333.7     9417.    1333.1   9457.    1334.1   9479.    1334.9   9499.    1335.3   9554.
GR   1334.4     9582.    1335.7   9631.    1335.6   9698.    1336.1   9745.    1334.6   9779.
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GR   1329.6     9788.    1330.5     9820.    1329.4     9847.    1328.5     9881.    1328.5     9912.
GR   1341.6     9931.    1343.1     9951.    1344.6     9955.    1342.      9968.    1330.9     9986.
GR   1330.9    10000.    1330.9    10010.    1340.8    10025.    1342.2    10040.    1345.9    10053.
GR   1346.5    10073.    1347.     10128.    1347.     10198.

ET                             4.1     9964.    10035.
X1   20.242       32.      9953.     10029.     470.      560.      517.
X3      10.                                                          1348.
GR   1346.6     9200.    1347.9     9269.    1348.7     9271.    1348.7     9277.    1346.6     9330.
GR   1347.7     9377.    1342.3     9383.    1342.7     9400.    1332.4     9422.    1333.6     9470.
GR   1333.7     9529.    1334.9     9573.    1334.2     9626.    1334.9     9648.    1335.1     9651.
GR    1336.     9785.    1336.      9842.    1338.6     9846.    1339.3     9895.    1339.2     9935.
GR   1347.2     9953.    1343.7     9970.    1333.3     9988.    1333.7    10000.    1333.5    10012.
GR   1342.8    10029.    1343.2    10041.    1348.3    10061.    1349.2    10076.    1349.9    10107.
GR   1350.1    10201.    1350.3    10202.

ET                             4.1     9963.    10036.
X1   20.335       27.      9958.     10032.     510.      470.      491.
GR   1349.5     9230.    1351.4     9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2     9592.    1350.4     9726.    1350.1     9808.    1351.1     9820.    1351.4     9850.
GR   1351.8     9928.    1347.7     9950.    1344.      9958.    1337.7     9971.    1337.3     9987.
GR   1337.4    10000.    1338.3    10021.    1344.     10032.    1349.     10042.    1351.8    10056.
GR   1351.1    10100.    1351.6    10141.    1350.     10144.    1350.     10166.     1350.    10240.
GR   1350.8    10328.    1351.4    10406.

       11TH AVENUE  (SPECIAL BRIDGE)


NC                                   0.3       0.5
X1   20.347       25.      9970.     10021.       1.      150.       63.
X3      10.                                                          1351.5    1351.5
GR   1349.5     9230.    1351.4     9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2     9592.    1350.4     9726.    1350.1     9808.    1351.1     9820.    1351.4     9850.
GR   1351.8     9928.    1347.7     9950.    1344.      9958.    1337.2     9970.    1337.2    10021.
GR    1344.    10032.    1349.     10042.    1351.8    10056.    1351.1    10100.    1351.6    10141.
GR    1350.    10144.    1350.     10166.    1350.     10240.    1350.8    10328.    1351.4    10406.

SB    1.25       1.56       3.0       100.      51.        3.      576.         0.    1337.7    1337.2
X1   20.366                                    100.      100.      100.

       ELTRD IS 1352.5+2HV = 1354.5

X2                                1.     1349.7    1354.5
X3      10.                                                          1352.5    1352.5

ET                             4.1     9958.    10072.
X1   20.423       21.      9975.     10045.     415.      205.      301.
GR   1354.3     9418.    1353.8     9613.    1355.3     9653.    1354.6     9696.    1353.3     9711.
GR   1353.6     9724.    1353.5     9931.    1352.      9950.    1345.      9975.     1338.    10000.
GR   1339.4    10027.    1339.7    10037.    1344.3    10045.    1345.     10055.    1353.3    10085.
GR   1353.5    10100.    1354.7    10127.    1354.4    10214.    1354.3    10273.    1353.3    10300.
GR   1353.5    10333.

       10TH AVENUE  (SPECIAL BRIDGE)
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X1   20.430      20.     9985.    10036.       1.      65.      37.
X3     10.                                                1352.5   1352.5
GR   1354.3     9418.   1353.8     9613.   1355.3    9653.   1354.6    9696.   1353.3    9711.
GR   1353.6     9724.   1353.5     9931.    1352.    9950.    1345.    9975.   1339.3    9985.
GR   1339.3    10036.   1344.3    10045.    1345.   10055.   1353.3   10085.   1353.5   10100.
GR   1354.7    10127.   1354.4    10214.   1354.3   10273.   1353.3   10300.   1353.5   10333.

SB    1.25      1.56      3.0       100.      51.      3.      576.       0.    1339.3   1339.3
X1   20.444                                  70.      70.      70.

       ELTRD IS 1353.5+2HV = 1355.5

X2                          1.    1351.3   1355.5
X3     10.                                                1353.5   1353.5

ET                          4.1     9930.   10069.
X1   20.529      19.     9947.    10055.    545.     375.     449.
GR    1354.     9570.   1353.7     9764.   1354.8    9836.    1355.    9885.   1354.7    9898.
GR   1350.7     9910.   1350.2     9947.   1343.4    9963.   1343.4    9990.   1343.3   10000.
GR    1343.    10025.   1348.6    10041.   1350.4   10055.   1350.8   10090.    1355.   10105.
GR   1354.4    10159.    1355.    10192.    1355.   10302.   1355.2   10313.

NC                                  0.1      0.3
ET                          4.1     9935.   10065.
X1   20.628      16.     9909.    10076.    530.     520.     523.
GR   1357.3     9532.   1357.3     9624.   1356.8    9754.   1357.2    9808.   1357.1    9909.
GR   1351.5     9922.   1350.2     9947.   1343.3    9959.   1343.6    9991.   1343.6   10000.
GR   1343.7    10044.   1356.3    10076.    1357.   10082.   1357.1   10137.   1357.2   10282.
GR    1358.    10337.

ET                          4.1     9962.   10026.
X1   20.725      20.     9951.    10036.    510.     520.     512.
GR   1360.3     9544.   1361.1     9631.   1361.3    9734.    1361.    9783.    1362.    9858.
GR   1360.8     9940.   1360.4     9951.   1350.4    9970.   1350.4    9981.   1348.3    9984.
GR   1347.4     9992.   1347.2    10000.   1347.4   10010.    1361.   10036.   1363.4   10046.
GR   1363.8    10101.   1364.1    10156.   1364.7   10184.   1365.1   10212.   1364.7   10291.

       PHELPS ROAD  (SPECIAL BRIDGE)


NC                                  0.3      0.5
X1   20.737      16.     9968.    10019.     80.      80.      80.                3.4
X3     10.                                                1363.    1363.
GR   1360.3     9544.   1361.1     9631.   1361.3    9734.    1361.    9783.    1362.    9858.
GR   1360.8     9940.   1360.4     9951.   1347.5    9968.   1347.5   10019.    1361.   10036.
GR   1363.4    10046.   1363.8    10101.   1364.1   10156.   1364.7   10184.   1365.1   10212.
GR   1364.7    10291.
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SB    1.25      1.56      3.0       100.      51.       3.        576.      0.        1351.0    1350.9
X1   20.750                                   71.       71.       71.                 0.1

       ELTRD IS 1364+2HV = 1366.0

X2                           1.     1363.     1366.
X3     10.                                                                 1364.     1364.

       BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
       RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
       AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
       CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
       INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.

X1   20.819      12.      9965.     10043.    375.      345.      365.                -0.9
X3     10.                                                                 1366.9    1366.9
GR   1366.5     9554.     1365.4    9663.     1365.5    9777.     1365.5    9846.     1365.3    9942.
GR   1357.4     9965.     1357.4    10043.    1367.6    10066.    1366.2    10107.    1366.2    10146.
GR    1367.    10166.     1367.2    10169.

SB    1.05      1.56      3.0       100.      77.3      3.3       655.      0.        1357.4    1356.5
X1   20.841                                   115.      115.      115.                0.9

       ELTRD IS 1367.9+2HV = 1369.9

X2                           1.     1365.4    1369.9
X3     10.                                                                 1367.9    1367.9

ET                           4.1    9904.     10060.
X1   20.860      14.      9942.     10066.    90.       110.      100.
X3     10.                                                                 1365.3    1367.6
GR    1370.     9800.     1365.5    9801.     1365.5    9846.     1365.3    9942.     1357.8    9975.
GR   1356.3     9991.     1356.4    10000.    1357.2    10015.    1357.     10040.    1367.6    10066.
GR   1366.2    10107.     1366.2    10146.    1367.     10166.    1367.2    10169.

NC    0.04      0.035     0.035     0.1       0.3
ET                           4.1    9860.     10110.
X1   20.942      26.      9854.     10024.    530.      490.      433.
GR   1372.5     9619.     1367.2    9630.     1368.7    9643.     1369.8    9663.     1369.4    9719.
GR   1367.6     9792.     1367.6    9836.     1368.6    9854.     1360.2    9867.     1359.8    9879.
GR   1359.8     9891.     1364.6    9904.     1365.2    9942.     1363.7    9970.     1366.     9977.
GR   1360.3     9998.     1359.6    10000.    1366.5    10024.    1364.7    10027.    1364.5    10053.
GR   1365.7    10070.     1364.5    10114.    1361.6    10153.    1368.3    10171.    1368.3    10194.
GR   1368.3    10204.

NC    0.04      0.04      0.035
ET                           4.1    9810.     10060.
X1   21.036      19.      9912.     10020.    490.      490.      496.
GR   1376.1     9530.     1372.     9541.     1372.     9561.     1371.3    9665.     1371.9    9728.
GR   1371.6     9758.     1370.9    9867.     1370.7    9912.     1367.3    9917.     1367.5    9952.
GR   1366.3     9980.     1363.5    9994.     1363.6    10000.    1364.3    10009.    1370.4    10020.
GR   1371.2    10041.     1371.2    10075.    1371.8    10089.    1378.     10090.
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ET			4.1	9900.	10060.					
X1	21.127	13.	9974.	10067.	400.	500.	480.			
X3	10.							1374.		
GR	1378.9	9623.	1373.6	9634.	1373.6	9666.	1373.4	9759.	1373.5	9860.
GR	1373.7	9913.	1374.2	9974.	1366.9	9990.	1366.7	10000.	1367.5	10015.
GR	1367.8	10039.	1375.	10067.	1375.	10077.				
ET			4.1	9900.	10125.					
X1	21.230	28.	9967.	10048.	560.	500.	544.			
GR	1381.5	9741.	1381.5	9764.	1381.5	9786.	1380.7	9813.	1379.3	9835.
GR	1379.3	9852.	1379.9	9862.	1378.2	9870.	1379.8	9879.	1378.9	9891.
GR	1379.5	9916.	1379.6	9930.	1378.9	9944.	1379.2	9955.	1379.3	9967.
GR	1374.7	9982.	1372.4	9992.	1372.	10000.	1373.2	10014.	1375.6	10023.
GR	1379.3	10037.	1380.6	10048.	1378.	10062.	1377.5	10083.	1377.4	10102.
GR	1377.7	10117.	1377.8	10126.	1385.	10127.				
ET			4.1	9930.	10130.					
X1	21.363	55.	9928.	10088.	740.	700.	702.			
GR	1384.8	9135.	1384.7	9160.	1383.9	9189.	1384.6	9215.	1383.9	9245.
GR	1384.4	9279.	1383.8	9313.	1384.	9345.	1384.1	9374.	1383.8	9405.
GR	1383.5	9428.	1384.5	9459.	1385.	9498.	1384.7	9527.	1385.	9549.
GR	1382.2	9561.	1381.	9570.	1382.1	9583.	1383.9	9596.	1384.3	9628.
GR	1384.3	9657.	1384.	9697.	1383.6	9739.	1384.1	9779.	1383.9	9811.
GR	1383.1	9822.	1383.6	9848.	1383.3	9886.	1383.5	9907.	1384.1	9916.
GR	1383.2	9922.	1384.4	9928.	1383.6	9939.	1379.2	9954.	1377.7	9977.
GR	1375.	9996.	1374.8	10000.	1375.	10016.	1374.2	10037.	1374.1	10045.
GR	1377.5	10066.	1382.1	10088.	1383.8	10108.	1384.	10125.	1384.5	10147.
GR	1382.7	10174.	1383.2	10202.	1383.1	10224.	1383.1	10245.	1383.3	10265.
GR	1384.3	10285.	1383.4	10301.	1383.	10319.	1383.	10334.	1383.	10337.
ET			4.1	9852.	10077.					
X1	21.484	33.	9932.	10026.	650.	520.	639.			
GR	1386.8	9487.	1385.8	9527.	1385.8	9572.	1385.4	9614.	1384.8	9647.
GR	1385.2	9678.	1385.6	9709.	1386.7	9746.	1385.9	9776.	1384.5	9805.
GR	1383.9	9837.	1384.4	9867.	1384.	9892.	1386.5	9919.	1386.9	9932.
GR	1386.2	9943.	1383.5	9964.	1380.2	9970.	1379.7	9988.	1378.5	9994.
GR	1378.6	10000.	1381.2	10014.	1386.5	10026.	1386.6	10053.	1387.8	10056.
GR	1385.5	10060.	1388.2	10068.	1385.8	10075.	1387.4	10079.	1387.4	10101.
GR	1387.6	10116.	1387.5	10131.	1387.4	10134.				
ET			4.1	9940.	10165.					
X1	21.576	43.	9980.	10087.	320.	480.	486.			
GR	1388.7	9388.	1388.6	9414.	1388.2	9461.	1388.5	9500.	1389.3	9532.
GR	1388.7	9570.	1388.5	9607.	1387.9	9643.	1388.6	9664.	1388.8	9705.
GR	1389.1	9743.	1388.9	9780.	1388.	9821.	1388.4	9852.	1388.7	9889.
GR	1389.1	9922.	1389.7	9952.	1390.1	9968.	1390.	9980.	1382.5	9994.
GR	1382.1	10000.	1382.2	10008.	1383.8	10015.	1385.1	10038.	1385.2	10056.
GR	1384.1	10065.	1384.6	10073.	1388.3	10087.	1387.1	10114.	1387.1	10140.
GR	1387.8	10162.	1387.7	10199.	1388.4	10243.	1388.7	10281.	1389.3	10300.
GR	1390.3	10307.	1389.2	10313.	1390.7	10320.	1387.6	10329.	1388.9	10335.
GR	1389.7	10348.	1390.2	10360.	1390.3	10386.				

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QT      2.      5500.      5500.
ET                          4.1       9890.      10115.
X1   21.669        35.      9962.      10031.       440.       470.       491.
GR   1393.2      9392.      1393.      9426.      1392.7      9446.      1392.3      9515.      1392.9      9562.
GR   1392.2      9606.     1392.8      9663.      1392.7      9710.      1393.1      9742.      1393.5      9777.
GR   1393.3      9819.     1392.7      9858.      1392.2      9893.      1391.6      9925.      1392.       9949.
GR   1393.8      9962.     1392.7      9974.      1392.2      9982.      1385.       9989.      1384.       9997.
GR   1384.5     10000.     1385.1     10011.      1388.7     10023.      1392.      10031.      1391.2     10045.
GR    1392.     10074.     1391.7     10124.      1391.9     10182.      1392.      10245.      1392.1     10303.
GR   1391.9     10361.      1392.     10395.      1392.6     10401.      1391.6     10404.      1393.3     10414.

ET                          4.1       9940.      10140.
X1   21.742        25.      9975.      10091.       430.       390.       385.
GR    1396.      9733.     1394.6      9753.      1395.1      9777.      1395.       9802.      1395.       9839.
GR   1395.6      9885.     1395.1      9930.      1395.3      9940.      1394.7      9975.      1387.4      9991.
GR   1386.4     10000.     1386.9     10015.      1392.2     10035.      1391.9     10052.      1389.9     10062.
GR   1391.5     10080.     1394.2     10091.      1394.2     10126.      1394.9     10176.      1395.      10240.
GR   1394.6     10281.     1394.8     10324.      1395.2     10355.      1395.3     10367.      1397.3     10376.

ET                          4.1       9900.      10100.
X1   21.840        22.      9946.      10054.       430.       430.       517.
GR   1401.5      9827.     1402.1      9842.      1397.3      9860.      1395.5      9882.      1395.       9913.
GR   1395.3      9931.     1396.2      9946.      1395.7      9953.      1392.1      9967.      1392.6      9984.
GR   1393.7      9997.     1393.3     10000.      1392.5     10020.      1391.1     10033.      1393.5     10045.
GR    1397.     10054.     1396.5     10097.      1397.3     10145.      1397.8     10186.      1397.5     10227.
GR   1397.6     10273.     1398.3     10308.

ET                          4.1       9830.      10080.
X1   21.895        31.      9975.      10031.       330.       220.       290.
GR   1402.6      9807.     1402.6      9825.      1398.4      9839.      1397.2      9857.      1396.7      9885.
GR   1396.7      9919.     1397.7      9939.      1397.9      9960.      1398.       9975.      1397.1      9981.
GR    1393.      9990.     1391.9     10000.      1392.3     10010.      1394.      10021.      1397.7     10031.
GR   1398.6     10046.      1399.     10078.      1398.4     10113.      1398.6     10149.      1398.7     10187.
GR   1398.5     10225.     1398.1     10251.      1398.6     10292.      1398.6     10333.      1399.3     10364.
GR   1398.8     10399.     1399.5     10428.      1400.5     10446.      1400.5     10458.      1399.7     10463.
GR   1400.9     10470.

      UNION HILLS RD:  PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA
      (BAREA) WITH AN ORIFICE COEFFICIENT.  THE 100 YEAR FLOW THROUGH THE
      PIPES WAS NEGLIGIBLE (18 CFS).  UNION HILLS IS THEREFORE MORE
      APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.

ET                          4.1       9650.      10070.
X1   21.933        12.      9865.      10140.       210.       210.       210.
GR    1402.      9060.     1400.3      9440.       1400.      9590.      1398.       9680.      1397.4      9725.
GR    1398.      9780.     1399.4      9840.       1398.      9865.      1396.8     10000.      1398.      10140.
GR    1400.     10285.      1406.     10286.
```

1V1+PRINT

NC	0.045	0.045	0.045							
ET			4.1	9630.	10051.					
X1	21.953	39.	9969.	10029.	75.	75.	74.			
GR	1402.	9320.	1400.5	9487.	1400.8	9527.	1401.4	9557.	1400.2	9580.
GR	1401.7	9599.	1401.1	9621.	1400.2	9647.	1399.6	9678.	1398.8	9699.
GR	1398.3	9714.	1397.6	9720.	1396.6	9725.	1398.8	9735.	1399.3	9745.
GR	1398.8	9759.	1397.3	9768.	1398.9	9782.	1398.9	9810.	1400.1	9832.
GR	1402.1	9851.	1401.7	9870.	1403.3	9884.	1403.7	9893.	1403.4	9912.
GR	1402.3	9939.	1401.	9956.	1399.7	9965.	1400.2	9969.	1395.6	9986.
GR	1394.4	9997.	1394.1	10000.	1394.	10010.	1394.9	10018.	1398.3	10029.
GR	1400.1	10044.	1401.6	10058.	1401.4	10064.	1407.	10065.		
ET			4.1	9620.	10030.					
X1	22.065	39.	9961.	10028.	430.	630.	591.			
GR	1404.2	9230.	1404.	9250.	1402.	9270.	1402.	9500.	1403.1	9594.
GR	1403.6	9604.	1400.4	9627.	1400.1	9645.	1400.6	9657.	1400.3	9680.
GR	1400.5	9700.	1401.9	9717.	1403.3	9731.	1403.7	9746.	1403.9	9761.
GR	1400.1	9776.	1400.	9785.	1401.1	9796.	1401.	9816.	1403.7	9829.
GR	1403.7	9843.	1400.7	9861.	1399.7	9869.	1402.7	9890.	1403.5	9899.
GR	1404.1	9915.	1404.8	9934.	1403.6	9950.	1404.1	9961.	1401.4	9977.
GR	1398.	9989.	1395.8	9995.	1395.8	10000.	1395.9	10006.	1399.4	10010.
GR	1402.	10028.	1402.6	10043.	1406.6	10061.	1407.1	10085.		
ET			4.1	9620.	10020.					
X1	22.165	63.	9983.	10018.	530.	530.	528.			
GR	1406.	9130.	1405.2	9138.	1405.	9151.	1404.4	9164.	1402.8	9176.
GR	1402.7	9184.	1400.8	9204.	1399.8	9213.	1399.3	9222.	1401.2	9232.
GR	1403.	9256.	1403.8	9282.	1403.8	9308.	1404.3	9334.	1404.2	9364.
GR	1404.1	9396.	1404.	9425.	1404.9	9463.	1405.2	9499.	1405.3	9526.
GR	1404.9	9548.	1403.8	9565.	1402.8	9579.	1404.6	9595.	1404.8	9608.
GR	1402.4	9624.	1400.	9637.	1399.7	9645.	1400.6	9657.	1402.	9669.
GR	1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR	1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR	1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR	1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR	1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR	1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR	1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET			4.1	9650.	10027.					
X1	22.273	57.	9933.	10028.	470.	580.	570.			
GR	1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR	1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR	1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR	1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR	1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR	1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR	1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR	1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR	1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR	1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR	1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR	1408.3	10080.	1408.7	10109.						

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ET                          4.1     9860.    10040.
X1   22.410      25.      9973.    10027.     750.      630.      723.
GR    1420.     9802.    1419.1    9817.    1418.8     9825.    1415.8    9838.    1414.8    9850.
GR   1412.6     9867.    1413.9    9879.     1412.     9890.    1413.4    9903.    1414.5    9914.
GR   1416.1     9922.     1414.    9931.    1412.4     9941.    1411.4    9954.    1411.2    9967.
GR   1410.7     9973.    1405.7    9987.    1404.9     9997.     1404.    10000.    1404.7   10007.
GR   1407.6    10017.    1411.3   10027.    1413.5    10042.    1413.8   10057.    1414.4   10071.

ET                          4.1     9890.    10050.
X1   22.483      19.      9941.    10105.     380.      390.      385.
GR    1421.     9823.    1420.2    9843.    1416.7     9873.    1414.4    9891.    1413.1    9915.
GR   1411.1     9941.    1407.8    9961.    1406.2     9984.    1405.5   10000.    1405.5   10027.
GR   1406.4    10056.    1408.3   10084.    1411.2    10105.    1412.3   10120.    1412.6   10138.
GR   1412.6    10156.    1411.9   10175.    1412.7    10191.    1419.8   10208.

ET                          4.1     9968.    10064.
X1   22.578      13.      9968.    10072.     540.      490.      502.
GR   1417.2     9914.    1417.6    9942.    1416.4     9958.    1416.6    9968.    1406.7    9983.
GR   1406.7     9993.    1407.5   10000.    1408.5    10024.    1408.5   10040.    1408.8   10050.
GR   1415.6    10063.    1421.2   10072.    1421.4    10090.

ET                          4.1     9830.    10028.
X1   22.675      19.      9736.    10032.     570.      480.      512.
GR   1419.9     9671.    1419.9    9710.    1419.8     9736.    1410.6    9759.    1411.1    9783.
GR   1410.6     9809.    1409.7    9828.    1410.8     9850.    1411.5    9873.    1413.4    9892.
GR   1412.2     9922.     1411.    9950.     1411.     9976.    1410.7   10000.    1410.6   10015.
GR    1420.    10032.    1428.3   10047.    1426.6    10055.     1426.   10060.

ET                          4.1     9977.    10160.
X1   22.794      20.      9983.    10169.     460.      500.      628.
GR   1420.6     9968.    1417.8    9983.    1413.6     9998.    1412.4   10000.    1412.3   10013.
GR   1410.7    10041.    1411.6   10065.    1413.7    10080.    1413.8   10103.    1414.2   10119.
GR   1411.7    10136.    1413.8   10151.    1416.1    10169.    1417.2   10189.    1420.3   10202.
GR   1423.1    10219.     1427.   10244.    1429.9    10261.    1429.8   10278.    1429.8   10282.

ET                          4.1     9951.    10120.
X1   22.880      34.      9927.    10167.     440.      480.      454.
GR   1427.3     9791.     1427.    9807.    1426.5     9815.    1424.8    9827.    1424.6    9838.
GR   1424.8     9863.    1424.8    9883.    1424.5     9903.    1424.7    9917.    1426.4    9927.
GR   1423.9     9934.    1421.4    9947.    1418.5     9958.    1416.1    9968.     1415.    9984.
GR    1414.     9999.    1414.3   10000.    1414.5    10012.    1415.2   10024.    1416.1   10048.
GR   1416.5    10067.    1416.4   10101.    1416.2    10125.    1415.5   10143.    1413.2   10152.
GR    1413.    10156.    1414.8   10160.    1424.2    10167.    1426.6   10188.    1428.4   10200.
GR   1430.9    10214.    1433.5   10230.    1433.8    10241.    1433.5   10248.

ET                          4.1     9890.    10026.
X1   22.990      35.      9739.    10034.     480.      530.      581.
GR   1427.7     9668.    1427.6    9697.    1425.6     9719.    1425.3    9730.    1425.4    9739.
GR   1423.9     9751.    1422.5    9767.    1422.4     9785.    1421.5    9804.    1421.3    9817.
GR   1421.3     9829.    1420.8    9843.    1419.5     9855.    1418.9    9864.    1417.9    9873.
GR   1419.4     9886.     1420.    9903.    1420.6     9921.    1420.8    9935.    1420.3    9949.
GR    1420.     9963.    1419.1    9977.    1419.1     9995.    1419.1   10000.    1418.7   10014.
GR   1420.3    10020.    1427.9   10034.    1427.3    10044.    1428.3   10060.    1430.5   10076.
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14PRINT

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GR   1435.7     10094.     1437.4     10108.     1438.7     10119.     1436.3     10126.     1435.1     10133.

ET                          4.1        9958.     10090.
X1    23.097       48.      9951.     10121.      640.       490.       565.
GR   1433.9      9713.     1433.9      9740.     1433.8      9758.     1432.3      9772.     1432.1      9778.
GR   1433.5      9794.     1433.5      9811.     1433.5      9835.     1433.4      9849.     1431.1      9864.
GR    1430.      9878.     1430.1      9885.     1431.       9892.     1429.6      9901.     1429.1      9916.
GR   1429.6      9925.     1431.3      9935.     1432.2      9945.     1432.3      9951.     1427.9      9964.
GR   1426.4      9977.     1425.6      9988.     1425.1      9999.     1425.1     10000.      1426.     10012.
GR   1426.1     10021.     1426.5     10044.     1426.5     10063.     1426.5     10073.     1426.5     10082.
GR   1425.5     10093.     1426.4     10101.     1428.5     10112.     1430.8     10121.     1430.1     10135.
GR    1430.     10150.     1431.6     10163.     1432.8     10176.     1433.      10198.     1432.7     10221.
GR   1431.6     10247.     1430.9     10267.     1430.6     10286.     1431.5     10296.     1433.4     10310.
GR   1438.3     10337.     1439.7     10353.     1440.5     10363.
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THE BEARDSLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL CROSS SECTION. THE BEARDSLEY ROAD CENTERLINE IS AT RM 23.168

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                    4.1    9830.   10140.

X1    23.168       22.      9777.     10116.      330.       300.       375.
GR   1435.4      9358.     1435.5      9412.     1435.6      9477.     1434.7      9533.     1433.2      9598.
GR   1431.8      9657.     1430.8      9718.     1429.5      9777.     1428.9      9827.     1429.       9877.
GR   1429.1      9942.      1429.      9999.     1429.1     10000.     1429.8     10053.     1430.3     10116.
GR   1431.8     10176.     1433.6     10230.     1434.3     10274.     1434.9     10326.     1435.5     10363.
GR   1435.6     10399.     1435.8     10409.
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DUE TO BREAKOUTS (SPLIT FLOWS) BETWEEN RM 23.55 AND RM 23.8, THE 50 AND 100 YEAR Q'S ARE REDUCED PER THE FOLLOWING TABLE.

NO ENCROACHMENTS ARE COMPUTED FOR THE FOLLOWING REACH BETWEEN RM 23.253 AND 7TH STREET. FOR PURPOSES OF A FLOODWAY, A 100 FT CORRIDOR IS MAINTAINED OUTSIDE OF THE LEVEES (WHICH ARE LIKELY TO BE ERODABLE) TO PASS THE SPLIT FLOWS WHICH HAVE BEEN REMOVED FROM THE MODEL, AS DISCUSSED WITH CITY OF PHOENIX AND FLOOD CONTROL DISTRICT REPRESENTATIVES. IF THIS CORRIDOR IS NOT MAINTAINED, THE REDUCTION IN Q FOR THIS MODEL IS NOT VALID, RESULTING IN A FLOODWAY PROFILE ABOVE THE NATURAL PROFILE BY MORE THAN THE STATUTORY 1.0 FT.

	FULL Q	REDUCED Q
50 YEAR	4800.	3300
100 YEAR	5500.	3400

THE 10 YEAR Q (3200 CFS) IS UNAFFECTED

1471-4PRINT

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QT       2.     3400.     3400.
NC   0.035     0.05      0.04
                4.1  9978.5 10023.2
X1   23.253       8.     9973.    10038.      470.      450.      459.
GR   1437.5    9973.   1425.5     9995.    1425.2   10000.    1427.4   10008.   1429.2   10015.
GR   1444.2   10038.   1444.9    10052.    1445.    10060.
                4.1   9969.  10036.

X1   23.334      10.     9962.    10055.      400.      420.      417.
GR   1443.8    9962.   1435.6     9979.    1433.2    9990.    1432.6   10000.   1433.2   10012.
GR   1435.4   10022.   1438.5    10032.    1444.2   10044.    1449.8   10055.   1449.6   10063.

X1   23.416      10.     9974.    10053.      400.      430.      433.
GR   1447.7    9958.   1447.8     9974.    1439.2    9989.    1436.5    9999.   1436.6   10000.
GR   1437.2   10017.   1437.6    10030.    1444.4   10041.    1450.2   10053.   1450.4   10066.

X1   23.514       8.     9973.    10039.      560.      470.      517.
GR   1451.5    9965.   1451.4     9973.    1439.8    9989.    1439.6   10000.   1440.1   10012.
GR   1441.5   10022.   1443.6    10029.    1451.1   10039.

        SPECIAL BRIDGE IS USED TO MODEL EMBANKMENT PLACED IN THE CHANNEL TO
        ALLOW VEHICULAR ACCESS BETWEEN THE LANDFILL ON THE LEFT AND THE GRAVEL
        PIT ON THE RIGHT.  THE EMBANKMENT MAY WASH OUT, BUT FOR THIS STUDY, IT
        IS ASSUMED TO REMAIN.  LOW FLOWS PASS THROUGH 2-36" CMP'S.

X1   23.544                                          190.      150.      158.                1.8
X3      10.                                                                        1445.    1445.

SB    1.25      2.48      3.2       0.       5.7       1.      14.1       0.     1442.    1441.4
X1   23.555                                           60.       60.       60.                0.6

        ELTRD IS 1448.4+0.6HV = 1449

X2                             1.     1445.     1449.
X3      10.                                                                        1480.    1480.
BT      10.    9930.     1452.       0.     9939.    1451.2       0.     9951.    1451.1       0.
BT    9967.  1449.8        0.     9987.    1448.4       0.    10000.   1448.4       0.   10019.
BT   1448.6       0.    10041.    1449.5       0.   10055.    1450.       0.   10070.    1452.
BT       0.

X1   23.591      17.     9968.    10045.      100.      210.      190.

        ARTIFICIAL LEVEES ARE SET VERY HIGH ON THE LEFT AND RIGHT OVERBANKS
        USING THE X3 CARD TO CONSIDER ONLY THE CHANNEL AREA AS EFFECTIVE.  SPLIT
        FLOW THAT BREAKS OUT UPSTREAM IS ACCOUNTED FOR BY THE REDUCED Q.  FLOWS
        ARE RETURNED TO CAVE CREEK DOWNSTREAM AT BEARDSLEY ROAD.

X3      10.                                                                        1480.    1480.
GR    1460.    9700.     1448.     9760.     1448.     9850.     1452.9    9959.   1452.9    9968.
GR   1446.8    9982.   1444.6     9993.    1444.2   10000.    1444.2   10013.   1444.9   10023.
GR   1449.9   10036.   1453.8    10045.    1451.9   10048.     1448.   10070.     1448.   10430.
GR    1450.   10770.     1452.    11200.
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X1   23.691       43.      9965.     10036.       510.       540.       528.

       HIGH ARTIFICIAL LEVEE

X3      10.                                                            1480.      1480.
GR    1461.1     9722.    1449.4     9747.    1449.4     9767.    1449.5     9784.    1449.1     9800.
GR    1448.3     9819.    1448.6     9832.    1448.3     9866.     1449.     9894.    1449.3     9913.
GR    1450.2     9925.    1453.5     9936.    1456.1     9944.    1455.4     9951.    1457.3     9955.
GR    1457.6     9965.    1450.8     9980.    1448.5     9985.    1447.2     9991.    1446.6     9999.
GR    1446.4    10000.     1447.    10011.    1449.6    10017.    1451.3    10028.    1455.3    10036.
GR    1453.2    10045.    1452.4    10054.    1451.3    10057.    1452.2    10062.    1452.4    10077.
GR    1452.2    10094.    1451.7    10108.    1452.6    10117.    1451.4    10123.    1452.7    10128.
GR     1451.    10138.    1452.3    10143.    1451.7    10147.    1453.4    10155.    1452.1    10160.
GR     1452.    10320.     1454.    10560.     1456.    10730.

       Q IS NOW CHANGED TO BE THE AVERAGE OF THE FULL Q UPSTREAM OF THE
       BREAKOUT AND OF THE REDUCED Q DOWNSTREAM OF THE BREAKOUT.

QT       2.      4350.     4350.
X1   23.815        31.      9951.     10037.       650.       680.       655.

       HIGH ARTIFICIAL LEVEE

X3      10.                                                            1480.      1480.
GR    1470.      9650.    1459.3     9716.    1453.5     9738.    1453.1     9772.    1453.4     9812.
GR    1454.5     9857.    1455.1     9890.     1455.     9914.    1455.4     9941.    1458.9     9951.
GR     1458.     9963.    1451.4     9979.    1449.7     9988.    1449.9     9996.    1449.7    10000.
GR    1449.7    10017.    1454.6    10028.    1457.8    10037.    1456.8    10043.    1456.8    10060.
GR    1456.9    10081.    1457.1    10110.    1458.2    10140.    1458.4    10157.    1459.5    10172.
GR    1458.5    10182.     1456.    10195.    1457.2    10215.    1458.7    10226.    1457.1    10235.
GR    1465.5    10249.

       Q IS NOW CHANGED TO BE THE FULL Q UPSTREAM OF THE BREAKOUT

QT       2.      5300.     5300.
X1   23.912        12.      9967.     10043.       480.       510.       512.

       HIGH ARTIFICIAL LEVEE

X3      10.                                                            1480.      1480.
GR    1463.9     9868.    1461.7     9878.    1460.6     9898.    1460.7     9925.    1461.4     9950.
GR    1461.3     9967.    1451.3     9983.    1447.9     9994.     1448.    10000.    1447.9    10010.
GR    1454.9    10026.    1460.9    10043.

X1   23.989         9.      9937.     10049.       400.       410.       407.
GR    1465.6     9937.    1457.9     9957.    1452.6     9977.    1450.8     9989.    1449.7    10000.
GR    1450.5    10014.    1452.5    10024.     1458.    10036.    1465.8    10049.

       7TH STREET  (SPECIAL BRIDGE).  THE GR CARDS FROM SECTION 24.106 TAKEN
       UPSTREAM OF 7TH STREET ARE REPEATED AT THE DOWNSTREAM FACE OF THE BRIDGE
       AS SECTION 24.086 WITH PSXECE = -1.3.
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14/14PRINT

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NC                                          0.3       0.5
X1   24.086       12.      9972.     10044.      450.      560.      512.                -1.3
X3     10.                                                                 1463.7    1463.7
GR   1470.1      9942.    1464.1     9955.    1454.9     9972.    1454.9    10044.    1456.    10052.
GR   1458.5     10064.    1461.9    10091.    1463.7    10108.    1465.7    10123.    1466.1   10136.
GR   1466.4     10155.    1467.4    10310.

SB     0.9       1.56        3.       100.      71.6        3.      590.        0.     1453.6   1453.6
X1   24.096                                     56.       56.       56.

       ELTRD IS 1464.7+2HV = 1466.7

X2                              1.     1462.2    1466.7
X3     10.                                                                 1466.     1466.

ET                              4.1     9955.    10055.
X1   24.106       13.      9955.     10064.       80.       20.       53.
GR   1470.1      9942.    1464.1     9955.    1455.2     9972.    1454.7    9997.    1454.2   10000.
GR   1454.9     10028.    1456.     10052.    1458.5    10064.    1461.9    10091.   1463.7   10108.
GR   1465.7     10123.    1466.1    10136.    1466.4    10155.

NC                                          0.1       0.3
ET                              4.1     9950.    10050.
X1   24.195       13.      9933.     10142.      470.      460.      470.
GR   1498.7      9862.    1497.1     9889.    1470.4     9933.    1454.1    9961.    1453.6   9996.
GR   1453.6     10000.    1453.9    10032.    1455.5    10052.    1456.3    10073.   1458.8   10093.
GR   1462.3     10117.    1466.4    10142.    1468.9    10164.

ET                              4.1     9940.    10080.
X1   24.322       11.      9871.     10064.      640.      630.      671.
GR   1473.7      9820.    1463.5     9871.    1453.2     9895.    1451.6    9972.    1452.1   10000.
GR   1454.5     10042.    1456.8    10064.    1457.7    10134.    1459.6    10177.   1465.2   10220.
GR   1470.9     10262.

NC     0.045     0.045     0.045
ET                              4.1     9927.    10080.
X1   24.444       16.      9928.     10122.      640.      600.      644.
GR   1478.8      9885.    1478.7     9906.     1465.     9928.    1457.6    9939.    1458.    9972.
GR   1457.3      9995.    1457.7    10000.    1459.1    10027.    1460.4    10064.   1459.3   10097.
GR   1461.7     10122.    1458.9    10142.    1460.7    10166.    1460.3    10180.   1468.5   10215.
GR   1474.2     10230.

ET                              4.1     9950.    10160.
X1   24.542       20.      9914.     10187.      470.      530.      517.
GR   1488.2      9844.    1464.      9914.    1463.2     9948.    1460.4    9968.    1459.8   9996.
GR   1459.8     10000.    1461.4    10017.    1462.3    10033.    1470.7    10056.   1470.3   10083.
GR   1472.2     10112.    1470.9    10127.    1464.4    10141.    1462.5    10166.    1463.   10171.
GR   1464.7     10175.    1467.8    10187.    1473.8    10237.    1475.2    10268.   1478.9   10283.

       THE DEER VALLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
       CROSS SECTION.  THE DEER VALLEY ROAD CENTERLINE IS AT RM 24.635.
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14PRINT

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ET                          4.1      9940.      10060.
X1   24.635          8.     9876.     10111.      650.       220.       491.
GR   1480.9       9752.     1474.5     9876.     1467.      9983.     1466.8     10000.     1467.9     10037.
GR   1472.4      10111.     1478.6    10193.     1480.1     10247.

QT       2.       5200.      5200.

        DIVIDED FLOW OCCURS FROM SECTION 24.738 TO 25.163.  ALTHOUGH THE RIGHT
        OVERBANK IS SOMETIMES LOWER THAN THE CHANNEL, EFFECTIVE FLOW IS
        CONTROLLED DOWNSTREAM AT SECTION 24.738.  OVERBANK LOW ELEVATIONS ARE
        ARTIFICIALLY ADJUSTED AT SECTIONS 24.838 TO 25.163 TO YIELD QROB =
        QROB AT SECTION 24.738 + OR - 10%.  NATURAL CONDITIONS AT SECTION
        25.048 RESULT IN A QROB THAT IS LESS THAN SECTION 24.738.

ET                          4.1      9936.      10200.
X1   24.738         21.     9897.     10038.      350.       630.       544.
GR   1490.4       9703.     1489.7     9717.     1479.2      9736.     1479.3      9805.     1477.7      9884.
GR   1481.2       9897.     1477.6     9931.     1472.8      9965.     1472.3      9986.     1472.      10000.
GR   1473.5      10023.     1480.9    10038.     1476.7     10045.     1480.8     10067.     1477.6     10079.
GR   1473.6      10088.     1473.6    10127.     1472.5     10224.     1474.4     10291.     1473.6     10330.
GR   1477.6      10343.

ET                          4.1      9968.      10350.
X1   24.838         20.     9945.     10019.      470.       450.       528.
  1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
   1475.  10004.  1483.5  10019.  1477.3  10032.  1479.5  10066.  1469.1  10111.
  1467.6  10133.  1468.5  10162.  1472.5  10185.  1469.9  10199.  1469.7  10219.
   1470.  10270.   1466.  10365.   1466.  10450.   1468.  10630.   1490.  10660.
GR   1488.5       9909.     1483.8     9945.     1477.7      9986.     1474.8      9991.     1474.7      10000.
GR    1475.      10004.     1483.5    10019.      1479.     10032.      1479.5     10066.      1479.      10111.
GR    1479.      10133.      1479.    10162.      1479.     10185.      1479.      10199.      1479.      10219.
GR    1479.      10270.      1479.    10365.      1479.     10450.      1479.      10630.      1490.      10660.

ET                          4.1      9860.      10300.
X1   24.943         17.     9983.     10017.      530.       570.       554.
  1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
  1482.4   9945.  1481.8   9983.   1478.   9990.  1477.9  10000.  1477.7  10004.
  1484.8  10017.  1483.6  10032.  1478.1  10044.   1470.  10080.   1470.  10540.
   1480.  10610.  1503.3  10690.
GR   1504.8       9651.     1494.9     9694.     1493.1      9736.     1481.7      9813.     1480.7      9926.
GR   1482.4       9945.     1481.8     9983.      1478.      9990.     1477.9     10000.     1477.7     10004.
GR   1484.8      10017.     1483.6    10032.     1481.      10044.      1481.     10080.      1481.      10540.
GR    1481.      10610.     1503.3    10690.

ET                          4.1      9850.      10250.
X1   25.048         23.     9966.     10017       580.       520.       554.
GR   1497.2       9659.     1493.6     9692.     1486.7      9707.     1486.      9817.      1486.      9941.
GR   1486.6       9966.     1485.7     9981.     1484.       9986.     1484.     10000.     1493.6     10017.
GR   1488.3      10026.     1486.     10062.     1485.4     10154.     1486.5     10223.     1483.7     10232.
GR   1484.6      10247.     1488.     10258.     1487.5     10405.     1492.2     10420.     1489.      10431.
GR    1484.      10450.     1484.     10470.      1500.     10525.
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14PRINT

```
QT       2.      4900.      4900.
ET                           4.1       9940.      10175.
X1   25.163         16.      9972.      10025.        640.         580.         607.
  1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
  1486.2   9984.  1486.3  10000.   1486.  10005.  1493.1  10025.  1485.3  10044.
  1486.3  10088.  1486.3  10147.  1486.4  10220.  1488.4  10291.  1498.8  10312.
  1499.8  10417.
GR   1499.3      9878.      1492.6      9917.      1490.2      9947.      1489.9      9965.      1491.6      9972.
GR   1486.2      9984.      1486.3     10000.      1486.      10005.      1493.1     10025.      1489.      10044.
GR    1489.     10088.      1489.      10147.      1489.      10220.      1489.      10291.      1498.8     10312.
GR   1499.8     10417.

        THE BREAKOUT IN THE RIGHT OVERBANK IS NOT EFFECTIVE DUE TO DOWNSTREAM
        PONDING.  HIGH ARTIFICIAL LEVEES HAVE BEEN SET ON THE RIGHT AT SECTIONS
        25.262, 25.374, AND 25.434.


ET                           4.1       9750.      10023.
X1   25.262         28.      9948.      10030.        470.         570.         523.
X3      10.                                                                  1491.6       1510.
GR   1503.2      9465.      1506.4      9470.      1489.6      9513.      1490.2      9547.      1492.2      9618.
GR   1491.5      9646.      1492.7      9689.      1492.6      9707.      1490.5      9823.      1491.6      9948.
GR   1489.1      9969.      1493.6      9987.      1490.2     10000.      1490.8     10016.      1496.8     10030.
GR   1488.4     10044.      1487.4     10059.      1486.      10070.      1484.4     10260.      1486.      10380.
GR    1492.     10420.       1492.     10450.      1484.      10475.      1484.      10510.      1488.      10535.
GR    1486.     10575.      1488.      10585.      1494.      10610.

ET                           4.1       9925.      10023.
X1   25.374         16.      9969.      10023.        680.         300.         591.
X3      10.                                                                  1499.3
GR    1510.      9628.      1498.2      9659.      1496.      9704.      1495.7      9838.      1496.2      9920.
GR    1496.      9933.      1497.8      9944.      1497.8     9950.      1495.6      9955.      1496.7      9963.
GR   1499.3      9969.      1493.5      9986.      1493.3     10000.     1493.5      10011.     1498.8      10023.
GR    1510.     10023.1

NC     0.05       0.035      0.035
ET                           4.1       9970.      10036.
X1   25.434         14.      9968.      10036.        400.         190.         317.
X3      10.                                                                  1504.9
GR   1511.5      9463.      1506.8      9561.      1504.8     9631.      1504.9      9716.      1502.      9788.
GR   1501.3      9885.      1500.8      9942.      1500.6     9954.      1504.9      9968.      1496.8     9990.
GR   1496.6     10000.      1495.8     10018.      1504.      10036.     1510.      10036.1

ET                           4.1       9970.      10050.
X1   25.500          9.      9908.      10105.        250.         420.         349.
GR   1511.5      9908.      1506.9      9927.      1504.5     9943.      1499.9      9957.      1497.7     10000.
GR   1498.5     10025.      1503.7     10061.      1507.7     10094.     1509.      10105.

        CAP CANAL OVERSHOOT STRUCTURE
```


14/4PRINT

```
NC                                    0.3       0.5

                SECTION IN DOWNSTREAM OUTLET OF OVERSHOOT IN STILLING POOL

ET                          4.1     9960.    10040.
X1   25.523       9.      9963.    10037.      120.      120.      121.
GR    1510.    9900.      1508.     9930.     1498.     9950.     1498.     9963.     1496.     9964.
GR    1496.   10036.      1498.    10037.     1498.    10050.     1510.    10100.

                SECTION AT DOWNSTREAM CREST OF OVERSHOOT WHERE FLOW PASSES
                THROUGH CRITICAL DEPTH. DO NOT ENCROACH.

NC    0.05    0.035     0.015
X1   25.534       4.      9963.    10037.       58.       58.       58.
GR    1515.    9963.   1505.54     9964.  1505.54    10036.     1515.    10037.

                SECTION AT UPSTREAM END OF NARROW CHUTE. DO NOT ENCROACH.

X1   25.551                                  90.       90.       90.

                SECTION AT UPSTREAM FLARED ENTRANCE TO OVERSHOOT. DO NOT
                ENCROACH.

X1   25.557       4.      9954.    10046.       32.       32.       32.
GR    1515.    9954.   1505.54     9973.  1505.54    10027.     1515.    10046.

                NATURAL SECTION UPSTREAM OF OVERSHOOT.  SET ENCROACHMENTS
                TO NATURAL SSTA & ENDSTA.

NC   0.035    0.035     0.035
QT       2.    2900.     2900.
ET                          4.1     9949.    10050.
X1   25.561       5.      9948.    10069.       20.       20.       21.
GR   1514.9    9948.     1505.6     9971.     1505.7    10000.    1506.3    10048.    1515.2    10069.

NC                                    0.1       0.3
QT       2.    2700.     2700.
ET                          4.1     9950.    10050.
X1   25.680      36.      9927.    10093.       580.      660.      628.
GR   1519.8    9136.     1518.8     9203.     1516.1    9267.     1515.7    9325.     1515.7    9359.
GR   1516.7    9372.     1514.9     9462.     1514.2    9504.     1515.2    9516.     1515.6    9559.
GR   1515.7    9593.      1515.     9622.     1516.9    9637.     1515.3    9653.     1512.1    9664.
GR   1512.4    9688.     1513.8     9704.     1518.5    9720.     1510.6    9747.     1514.3    9796.
GR   1513.9    9866.     1514.4     9927.     1508.7    9946.     1511.3    9961.     1511.2    9985.
GR   1506.5    9997.     1506.8    10000.     1506.8   10011.     1510.5   10022.     1511.1   10057.
GR   1509.6   10063.     1511.2    10093.     1512.4   10167.      1510.    10278.    1508.7   10295.
GR   1534.1   10338.
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K74PRINT

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QT      2.      2500.      2500.
ET                          4.1      9982.     10082.
X1   25.786        32.      9978.     10056.      600.      470.      560.
X3      10.                                                          1518.9
GR    1522.7     9477.     1522.5     9507.     1515.5     9529.     1515.7     9575.     1514.1     9667.
GR    1514.3     9705.     1513.4     9736.     1517.      9753.     1516.8     9776.     1517.2     9794.
GR    1513.5     9822.     1516.2     9837.     1512.2     9848.     1516.5     9872.     1514.6     9883.
GR    1517.      9913.     1517.      9922.     1515.2     9944.     1518.9     9964.     1518.9     9978.
GR    1511.2     9990.     1511.4     10000.    1510.7     10010.    1514.5     10020.    1512.2     10041.
GR    1515.8     10056.    1515.3     10189.    1517.3     10353.    1515.1     10418.    1514.      10435.
GR    1514.2     10440.    1532.8     10465.

QT      2.      2300.      2300.
ET                          4.1      9959.     10059.
X1   25.947        14.      9950.     10066.      870.      830.      850.
GR    1524.      9816.     1522.7     9917.     1522.7     9950.     1518.8     9971.     1518.3     9986.
GR    1514.4     10000.    1514.5     10011.    1518.4     10028.    1519.7     10037.    1520.6     10066.
GR    1519.3     10107.    1518.2     10113.    1518.8     10119.    1529.5     10139.

QT      2.      2200.      2200.
ET                          4.1      9950.     10023.
X1   26.058        15.      9966.     10024.      540.      570.      586.
GR    1529.2     9598.     1526.6     9747.     1527.1     9765.     1526.      9790.     1523.3     9845.
GR    1522.1     9904.     1521.1     9927.     1521.      9951.     1522.      9966.     1520.8     9976.
GR    1517.4     10000.    1516.2     10010.    1516.8     10014.    1524.      10024.    1541.9     10048.

QT      2.      2000.      2000.
ET                          4.1      9970.     10040.
X1   26.152        13.      9956.     10069.      240.      550.      496.
GR    1530.2     9789.     1529.9     9847.     1527.3     9895.     1525.4     9956.     1522.3     9972.
GR    1520.      9982.     1520.1     10000.    1520.5     10018.    1522.2     10050.    1526.      10069.
GR    1530.7     10102.    1531.9     10114.    1533.1     10139.

QT      2.      1900.      1900.
ET                          4.1      9973.     10060.
X1   26.265        10.      9955.     10029.      580.      610.      597.
GR    1533.9     9829.     1533.6     9913.     1534.3     9916.     1531.7     9955.     1523.8     9995.
GR    1522.      10000.    1522.5     10010.    1524.8     10015.    1526.5     10029.    1529.5     10115.

QT      2.      1700.      1700.
ET                          4.1      9967.     10064.
X1   26.372        14.      9966.     10080.      600.      510.      565.
GR    1558.5     9909.     1544.2     9928.     1535.7     9945.     1531.6     9966.     1528.4     9981.
GR    1525.9     9990.     1523.9     9995.     1523.8     10000.    1527.3     10016.    1526.6     10034.
GR    1529.9     10055.    1533.8     10080.    1534.6     10100.    1535.5     10116.

QT      2.      1600.      1600.
ET                          4.1      9955.     10045.
X1   26.492        17.      9866.     10084.      640.      610.      634.
GR    1539.5     9819.     1538.5     9851.     1537.5     9866.     1533.3     9880.     1530.9     9891.
GR    1530.2     9920.     1527.7     9953.     1525.8     9972.     1525.8     9994.     1525.7     10000.
GR    1526.2     10019.    1528.4     10039.    1530.4     10062.    1534.8     10078.    1536.      10084.
GR    1536.4     10097.    1537.1     10100.
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NC    0.04      0.04      0.03
QT      2.      1300.     1300.
ET                        4.1      9945.    10025.
X1   26.582       37.     9869.    10028.      460.      480.      475.
GR   1538.6     9388.    1538.3     9411.     1535.     9445.    1532.2     9471.    1530.3     9493.
GR   1526.4     9510.    1525.5     9519.    1525.3     9539.    1526.3     9568.    1526.5     9602.
GR   1527.2     9622.    1526.7     9655.    1527.3     9691.    1526.9     9725.    1527.2     9752.
GR   1527.4     9786.    1528.1     9817.    1527.9     9845.    1528.2     9869.    1526.9     9894.
GR   1524.1     9911.    1524.9     9937.    1525.2     9958.    1525.6     9983.    1525.7    10000.
GR    1526.    10014.    1527.2    10028.    1526.4    10047.    1527.2    10086.    1526.5    10123.
GR   1526.8    10140.    1528.8    10157.    1528.8    10176.    1533.8    10195.    1536.6    10211.
GR   1536.7    10224.    1537.5    10226.

ET                        4.1      9970.    10030.
X1   26.673       44.     9955.    10077.      510.      460.      480.
X3      10.                                                                 1535.
GR   1549.8     9490.    1541.8     9544.    1534.8     9585.    1533.1     9600.    1531.8     9629.
GR   1530.8     9656.    1530.5     9681.    1530.5     9715.    1530.5     9748.    1531.1     9773.
GR   1532.3     9803.    1532.9     9829.    1532.6     9851.    1532.1     9868.    1532.7     9898.
GR   1532.9     9922.    1532.6     9944.    1534.3     9955.    1532.6     9970.    1532.7     9988.
GR   1532.8    10000.    1531.8    10013.    1532.6    10023.    1532.2    10047.    1531.9    10061.
GR   1533.2    10077.    1533.2    10105.    1534.5    10130.    1536.4    10141.    1537.8    10149.
GR   1537.4    10165.    1536.9    10192.    1533.6    10205.    1533.2    10237.    1533.2    10265.
GR   1534.2    10285.    1534.8    10304.    1535.1    10331.    1535.6    10348.    1539.7    10359.
GR   1539.2    10378.    1539.9    10387.     1552.    10411.    1550.3    10420.

QT      2.      1100.     1100.
ET                        4.1      9981.    10031.
X1   26.784       29.     9975.    10080.      590.      530.      586.
GR   1556.2     9628.    1553.4     9629.    1551.5     9652.    1550.5     9674.    1549.6     9695.
GR   1548.7     9721.    1549.2     9749.    1548.9     9783.    1549.4     9822.    1549.5     9859.
GR   1549.4     9898.    1549.7     9925.    1550.7     9951.    1551.2     9975.    1542.7     9985.
GR   1543.2    10000.    1544.4    10019.    1545.4    10045.    1550.2    10069.    1551.5    10080.
GR   1550.8    10091.     1551.    10110.     1551.    10132.    1550.9    10150.     1551.    10162.
GR   1552.5    10191.    1552.7    10228.     1552.    10271.    1551.9    10279.

QT      2.      1000.     1000.
ET                        4.1      9975.    10025.
X1   26.883       21.     9773.    10122.      530.      500.      523.
GR   1555.5     9726.    1549.5     9759.    1544.7     9773.     1542.     9791.    1540.1     9803.
GR   1540.1     9895.    1540.1    10000.    1540.1    10062.    1540.6    10074.    1541.3    10093.
GR   1542.8    10122.    1542.6    10148.    1542.5    10166.    1544.1    10179.    1546.3    10194.
GR    1549.    10209.    1553.7    10235.    1555.3    10255.    1557.4    10265.    1557.4    10279.
GR   1556.2    10282.

QT      2.       900.      900.
ET                        4.1      9975.    10025.
X1   26.984       32.     9943.    10170.      480.      460.      533.
GR   1560.6     9811.    1559.7     9833.    1557.2     9861.    1554.5     9891.    1549.4     9920.
GR   1545.5     9943.    1543.8     9953.    1542.3     9968.    1542.1    10000.    1545.1    10012.
GR   1540.6    10023.    1540.6    10107.    1540.6    10124.    1541.7    10135.    1540.5    10147.
GR   1540.5    10156.    1546.5    10170.    1547.3    10189.    1547.5    10203.    1547.7    10218.
GR   1546.7    10231.    1543.5    10241.    1542.8    10256.    1542.3    10271.    1542.3    10282.
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GR   1544.6    10290.    1543.4    10300.    1543.3    10310.    1544.8    10323.    1545.3    10333.
GR   1558.9    10356.    1551.6    10369.

ET                        4.1     9883.7    10013.1
X1   27.060       33.    9980.     10019.     270.      470.      401.
X3      10.                                                               1565.
GR   1566.5     9583.    1559.9     9608.    1557.5     9614.    1557.6     9617.    1560.3     9624.
GR   1560.6     9643.    1560.9     9670.    1559.8     9683.    1559.6     9706.    1560.      9720.
GR   1559.4     9740.    1559.5     9772.    1560.4     9795.    1560.      9824.    1558.8     9852.
GR   1558.7     9879.    1558.9     9895.    1558.5     9911.    1559.2     9940.    1560.      9954.
GR   1559.7     9963.    1560.6     9967.    1560.8     9980.    1554.6     9997.    1554.1     10000.
GR   1555.1     10005.   1562.6     10019.   1562.2     10040.   1562.1     10056.   1563.4     10068.
GR   1565.2     10081.   1566.      10093.   1563.9     10103.

QT       2.       600.      600.
ET                        4.1     9881.1    10020.
X1   27.166       36.    9977.     10023.     560.      560.      560.
X3      10.                                                     1565.     1565.
GR    1572.     9622.    1572.2     9639.    1571.5     9661.    1569.4     9686.    1568.5     9709.
GR   1568.1     9719.    1568.4     9730.    1567.4     9742.    1567.1     9762.    1567.9     9772.
GR   1568.8     9787.    1567.6     9811.    1566.7     9830.    1566.      9847.    1562.3     9858.
GR   1558.7     9868.    1557.6     9870.    1558.4     9872.    1560.6     9875.    1560.9     9884.
GR   1560.9     9911.    1560.8     9943.    1560.7     9955.    1564.2     9963.    1564.2     9977.
GR   1555.2     9995.    1555.2     10000.   1555.2     10008.   1563.9     10023.   1563.9     10038.
GR   1561.1     10043.   1561.1     10067.   1560.8     10098.   1560.9     10129.   1561.5     10142.
GR   1562.8     10146.

        SECTION 27.294 IS NEAR THE DOWNSTREAM OUTLET OF CAVE BUTTE DAM.

QT       2.       400.      400.
ET                        4.1     9972.     10022.2
X1   27.294       26.    9967.     10027.     710.      630.      676.
GR   1591.6     9811.    1589.8     9827.    1587.9     9839.    1589.7     9851.    1588.2     9870.
GR   1585.6     9883.    1584.2     9888.    1584.4     9900.    1583.9     9914.    1568.3     9948.
GR   1565.9     9954.    1565.2     9967.    1558.3     9980.    1557.2     9984.    1556.2     9987.
GR    1556.     10000.   1556.      10007.   1564.6     10027.   1565.6     10037.   1573.      10054.
GR   1572.8     10074.   1573.4     10093.    1574.     10112.    1575.     10135.   1575.4     10163.
GR   1575.6     10171.

        THE CENTERLINE OF CAVE BUTTE DAM IS AT RM 27.365.


        FOLLOWING IS THE TRUBUTARY RUN FOR THE EAST FORK OF CAVE CREEK.


        SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
        FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
        EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608
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14PRINT

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NC    0.035     0.035     0.035       0.1       0.3
QT       2.     14600.    14600.
ET                         4.1    9921.37     10061.
X1   -19.56        17.     9929.     10065.      730.       720.       729.
GR    1346.1     9801.    1329.7     9902.     1329.7     9929.     1316.5     9950.     1316.8     9978.
GR    1315.6    10000.    1315.6    10008.     1316.6    10026.     1316.4    10035.     1317.5    10043.
GR    1330.6    10065.    1330.8    10099.     1330.5    10146.     1330.2    10195.     1330.9    10208.
GR    1331.2    10223.    1332.1    10301.
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SECTION 0.029 IS JUST UPSTREAM OF THE CONFLUENCE WITH CAVE CREEK WASH. SECTION 19.556 DOWNSTREAM IN THE WASH IS USED TO START THE RUN ON THE EAST FORK.

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QT       2.      9500.     9500.
NC    0.035     0.035     0.015
ET                         4.1    9942.56     10073.1
X1    0.029        15.     9942.     10043.      380.       450.       430.
GR    1336.7     9849.    1332.4     9893.     1329.5     9942.     1326.3     9954.     1326.3     9963.
GR    1319.8     9982.    1319.6     9995.     1319.6    10000.     1319.6    10019.     1328.2    10043.
GR     1330.    10090.    1330.3    10128.     1332.4    10166.     1333.1    10216.     1333.1    10217.

NC    0.035     0.035      0.03
ET                         4.1     9905.     10092.
X1    0.112        22.     9887.     10101.      430.       450.       483.
GR    1357.6     9597.    1333.1     9743.     1332.6     9804.     1332.      9816.     1331.8     9863.
GR    1332.1     9887.    1329.4     9906.     1329.4     9915.     1323.4     9937.     1322.3     9949.
GR    1321.5     9985.    1321.6     9999.     1321.6    10000.      1322.    10037.     1323.2    10049.
GR    1329.3    10076.    1334.8    10101.     1334.8    10139.     1333.4    10214.     1334.8    10286.
GR    1334.5    10320.    1334.5    10321.

ET                         4.1     9910.     10110.
X1    0.198        26.     9897.     10133.      460.       420.       454.
GR    1334.8     9569.    1336.5     9570.     1335.1     9591.     1335.7     9694.     1333.8     9754.
GR    1333.3     9863.    1332.4     9897.     1329.4     9916.     1325.5     9937.     1323.8     9965.
GR    1324.5     9981.    1324.8     9999.     1324.8    10000.     1324.1    10044.     1324.5    10058.
GR    1328.8    10085.    1328.8    10093.     1336.3    10122.     1337.8    10133.      1336.    10138.
GR    1337.3    10170.    1337.1    10262.      1337.    10356.     1345.1    10370.     1337.1    10382.
GR    1336.7    10417.

ET                         4.1     9903.     10054.
X1    0.288        20.     9885.     10069.      470.       460.       475.
GR    1338.2     9550.    1337.6     9684.     1336.1     9733.     1336.9     9848.      1336.     9885.
GR    1328.9     9933.    1326.6     9954.     1325.9     9978.     1325.7    10000.     1328.5    10026.
GR    1335.9    10069.    1335.9    10078.     1336.7    10089.     1336.2    10101.      1338.    10213.
GR    1339.6    10443.    1347.3    10459.      1341.    10472.     1341.9    10485.     1339.9    10517.

ET                         4.1     9912.     10094.
X1    0.398        19.     9904.     10119.      600.       540.       581.
GR    1340.2     9739.    1340.7     9804.     1339.3     9843.     1338.9     9904.     1330.2     9949.
GR    1329.4     9979.    1328.8    10000.     1329.7    10061.     1338.1    10098.     1338.1    10105.
GR    1340.6    10119.    1338.4    10126.     1338.6    10168.     1340.5    10175.     1339.9    10190.
GR    1339.7    10352.    1339.2    10456.     1339.5    10478.     1339.8    10533.
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ET                      4.1     9904.   10095.
X1   0.482     20.     9937.   10024.    440.     270.     444.
GR    1347.   9903.   1341.4   9904.   1341.1   9937.   1337.1   9953.   1333.4   9962.
GR   1331.2   9988.   1331.3  10000.   1331.3  10008.    1338.  10024.   1340.8  10093.
GR   1340.9  10125.   1341.6  10161.   1340.4  10236.   1341.6  10256.    1340.  10291.
GR   1341.1  10315.   1340.9  10402.   1341.5  10528.   1341.5  10640.    1343.  10910.

ET                      4.1     9870.   10080.
X1   0.575     19.     9869.   10049.    460.     500.     491.
GR    1348.   9777.   1342.8   9778.   1340.2   9869.   1337.1   9896.   1341.1   9944.
GR   1337.8   9977.   1331.7   9990.   1331.5   9997.   1331.5  10000.    1332.  10011.
GR   1338.9  10023.   1343.1  10049.   1342.5  10105.   1343.5  10113.   1342.9  10186.
GR   1341.8  10239.    1342.  10274.   1343.2  10411.   1345.4  10755.

QT       2.   9400.   9400.
ET                      4.1     9875.   10035.
X1   0.697     16.     9847.   10023.    640.     640.     644.
GR   1346.4   9847.   1345.3   9855.   1338.8   9882.   1338.1   9888.    1339.   9900.
GR   1340.4   9912.   1343.4   9919.   1341.4   9921.   1339.9   9950.   1334.9   9967.
GR   1334.6  10000.    1334.  10007.   1341.4  10023.   1343.8  10061.   1345.4  10102.
GR   1346.4  10237.

NC    0.035   0.035   0.035
ET                      4.1     9880.   10040.
X1   0.826     11.     9929.   10050.    680.     660.     681.
GR   1349.5   9815.   1346.4   9893.   1345.5   9929.   1342.7   9969.   1338.8   9974.
GR   1338.8   9988.   1338.8  10000.   1339.2  10009.   1349.5  10050.   1350.1  10066.
GR    1351.  10219.

ET                      4.1     9870.   10030.
X1   0.945     20.     9856.   10034.    680.     600.     628.
GR   1352.7   9469.   1352.6   9548.   1351.8   9674.   1351.8   9704.    1349.   9769.
GR   1349.8   9819.   1349.5   9843.   1348.6   9856.   1345.5   9866.   1346.8   9929.
GR   1347.7   9956.   1340.4   9978.   1340.8  10000.   1340.8  10008.   1349.5  10034.
GR   1350.1  10046.   1350.1  10100.   1352.8  10215.   1353.4  10254.    1353.  10284.

ET                      4.1     9870.   10030.
X1   1.035     22.     9841.   10022.    440.     460.     475.
GR    1354.   9670.   1350.5   9723.   1352.3   9776.    1352.   9795.   1348.6   9823.
GR   1348.4   9832.   1350.8   9841.   1348.1   9844.   1349.2   9871.   1349.4   9908.
GR   1345.9   9921.   1348.6   9941.   1348.1   9948.   1343.9   9966.   1343.3   9983.
GR   1342.3   9992.   1341.9  10000.   1348.8  10022.   1351.2  10046.   1352.5  10059.
GR   1352.4  10100.    1353.  10153.

NC     0.04    0.04    0.04
ET                      4.1     9890.   10050.
X1   1.121     19.     9868.   10069.    480.     440.     454.
GR   1355.2   9850.    1355.   9868.   1348.4   9897.   1346.1   9910.   1345.9   9931.
GR   1346.4   9955.   1345.1   9966.   1343.6   9994.   1343.6  10000.   1348.1  10015.
GR   1348.8  10036.   1350.6  10048.   1351.1  10059.   1353.6  10069.   1354.1  10082.
GR   1354.2  10121.    1355.  10134.   1355.1  10173.    1355.  10175.
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KC14PRINT

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ET                      4.1     9950.    10110.
X1   1.204      16.    9949.    10043.     430.     450.     438.
GR  1355.4     9930.  1355.6     9949.  1348.3     9964.  1348.3     9978.  1344.3     9991.
GR  1344.3     9995.  1344.8    10000.  1348.3    10027.  1352.5    10043.  1353.8    10057.
GR  1353.7    10072.  1353.5    10098.  1354.2    10165.  1356.1    10178.  1355.8    10262.
GR  1356.3    10334.

QT      2.     9100.    9100.
ET                      4.1     9905.    10060.
X1   1.315      17.    9904.    10074.     720.     700.     734.
GR  1359.7     9904.  1352.7     9916.  1350.3     9931.  1348.8    10000.  1351.1    10012.
GR  1351.6    10028.  1353.4    10043.  1353.4    10056.  1356.5    10064.  1359.     10074.
GR  1357.8    10085.  1358.     10091.  1358.     10130.  1352.     10150.  1352.     10170.
GR  1358.     10230.  1360.     10240.

NC   0.035    0.035   0.025
```

PER INTERIM FEMA REVIEW COMMENT, TIE THIS STUDY TO THE PREVIOUS FEMA MODEL. CROSS SECTION 1.420 IN THIS MODEL IS TAKEN AT THE SAME LOCATION AS CROSS SECTION "M" ON THE FIRM MAP REVISED SEPTEMBER 29 1989, PLOTTED AT RIVER MILE 1.445. THIS CROSS SECTION CORRESPONDS TO CROSS SECTION 1.492 IN THE 1980 HEC-2 MODEL THAT WAS USED TO DEVELOP THE SEPTEMBER 29, 1989 REVISED FIRM.

ELEVATIONS COMPUTED BY THIS MODEL ARE COMPARED TO ELEVATIONS COMPUTED FOR THE PREVIOUS FLOOD INSURANCE STUDY (REVISED SEPT. 29,1989) ARE SHOWN IN THE TABLE BELOW:

	10 YEAR	50 YEAR	100 YEAR
PREVIOUS STUDY	1359.3	-	1361.0
THIS MODEL	1360.65	1371.17	1361.34
SET BY X5 CARD	1359.3	1360.7	1361.0

100 YEAR FLOOD ELEVATIONS AGREE WITHIN 0.5 FEET. 10 YEAR FLOOD ELEVATIONS DISAGREE DUE TO REVISIONS TO HYDROLOGY SINCE THE PREVIOUS STUDY, PRIMARILY DUE TO INCREASED URBANIZATION OF THE WATERSHED. SINCE THE 100 YEAR BASE FLOOD IS WITHIN ACCEPTABLE AGREEMENT, FLOOD ELEVATIONS AT THE LIMIT OF DETAILED STUDY HAVE BEEN SET BY X5 CARD TO AGREE WITH THE PREVIOUS STUDY. THE 50 YEAR ELEVATIO N, NOT PREVIOUSLY COMPUTED, HAS BEEN INTERPOLATED.

FOLLOWING IS SECTION 1.420 FROM CURRENT TOPO

```
1.420      9.   9895.  10085.    380.    420.    407.
1364.   9860.   1362.   9870.   1360.   9895.   1356.   9910.  1354.9  10000.
1356.  10070.   1360.  10085.   1362.  10100.   1364.  10120.
```

FOLLOWING IS SECTION 1.420 BASED UPON THE PREVIOUS STUDY
THE QT CARD IS BASED ALSO ON THE PREVIOUS STUDY
THE NC VALUES ARE ADJUSTED TO ALLOW USE OF THE X5
WITHOUT BEING OVERRIDDEN BY CRITICAL DEPTH.

14714PRINT

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QT       2.      8400.      8400.
NC    0.02       0.02       0.02
ET                            4.1      9800.     10200.
X1    1.420        25.      9970.     10010.       380.       420.       407.
X5       2.    1361.0     1361.6
GR    1362.      9430.     1360.      9680.     1358.      9745.     1356.      9760.     1356.      9790.
GR    1358.    9790.1      1359.      9810.     1359.      9930.     1358.      9970.     1354.      9980.
GR    1354.   10009.9      1358.     10010.     1360.     10060.     1360.     10195.     1360.     10260.
GR    1360.     10315.     1360.     10330.     1360.     10360.     1360.     10420.     1361.     10460.
GR    1361.     10720.     1360.     10770.     1360.     10775.     1360.     10780.     1364.     10800.
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ICM4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .100 CEHV= .300
*SECNO 17.505
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= .0 10205.0 TYPE= 1 TARGET= 10205.000

17.505	12.61	1281.51	1281.51	1281.48	1284.07	2.57	.00	.00	1278.90
15400.0	163.5	14625.8	610.7	32.4	1113.9	108.9	.0	.0	1278.90
.00	5.05	13.13	5.61	.030	.030	.030	.000	1268.90	9891.48
.005840	30.	58.	85.	0	4	0	.00	267.62	10159.11

FLOW DISTRIBUTION FOR SECNO= 17.50 CWSEL= 1281.51

STA=	9891.	9903.	9912.	9921.	10090.	10131.	10159.
PER Q=	.0	.3	.8	95.0	3.5	.5	
AREA=	3.5	10.0	19.0	1113.9	86.3	22.6	
VEL=	1.7	4.0	6.2	13.1	6.2	3.3	
DEPTH=	.3	1.1	2.1	6.6	2.1	.8	

*SECNO 17.588

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.79

17.588	14.18	1284.68	.00	.00	1285.00	.32	.71	.22	1279.90
15400.0	3342.4	11942.5	115.2	984.2	2470.9	64.0	23.8	3.6	1279.90
.03	3.40	4.83	1.80	.040	.040	.040	.000	1270.50	9773.22
.000749	410.	438.	475.	2	0	0	.00	453.55	10226.78

FLOW DISTRIBUTION FOR SECNO= 17.59 CWSEL= 1284.68

STA=	9773.	9820.	9839.	9851.	9870.	9915.	9966.	10200.	10227.
PER Q=	3.9	4.7	3.2	4.5	3.3	2.1	77.5	.7	
AREA=	199.6	166.8	111.4	163.8	190.7	151.8	2470.9	64.0	
VEL=	3.0	4.3	4.5	4.2	2.7	2.1	4.8	1.8	
DEPTH=	4.3	8.8	9.3	8.6	4.2	3.0	10.6	2.4	

14714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 17.662

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

17.662	13.29	1284.89	.00	.00	1285.54	.65	.44	.10	1276.40
15400.0	4174.3	11121.1	104.6	728.4	1644.7	46.8	50.2	7.1	1281.60
.04	5.73	6.76	2.23	.040	.040	.040	.000	1271.60	9824.14
.001875	380.	391.	400.	2	0	0	.00	334.25	10158.39

FLOW DISTRIBUTION FOR SECNO= 17.66 CWSEL= 1284.89

STA=	9824.	9835.	9844.	9871.	9911.	9941.	10130.	10158.
PER Q=	.1	1.1	6.0	9.8	10.1	72.2	.7	
AREA=	11.9	40.5	168.7	265.9	241.4	1644.7	46.8	
VEL=	1.7	4.1	5.5	5.7	6.5	6.8	2.2	
DEPTH=	1.1	4.5	6.2	6.6	8.0	8.7	1.6	

*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .55

17.783	10.40	1285.80	.00	.00	1287.94	2.14	1.95	.45	1280.50
15400.0	315.6	14316.9	767.5	57.0	1188.5	114.9	76.8	10.8	1281.10
.06	5.54	12.05	6.68	.040	.040	.040	.000	1275.40	9899.48
.006300	540.	639.	500.	2	0	0	.00	203.28	10102.76

FLOW DISTRIBUTION FOR SECNO= 17.78 CWSEL= 1285.80

STA=	9899.	9921.	10064.	10074.	10097.	10103.
PER Q=	2.0	93.0	2.4	2.5	.0	
AREA=	57.0	1188.5	46.0	65.5	3.5	
VEL=	5.5	12.0	8.2	5.9	2.1	
DEPTH=	2.6	8.3	4.6	2.8	.6	

*SECNO 17.932

1CV14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

17.932	12.93	1290.83	1290.58	.00	1294.59	3.76	6.17	.49	1289.70
15400.0	44.4	15339.9	15.7	17.5	983.9	7.5	98.2	14.0	1290.20
.07	2.54	15.59	2.10	.040	.040	.040	.000	1277.90	9925.15
.010022	790.	787.	780.	5	11	0	.00	159.26	10084.41

FLOW DISTRIBUTION FOR SECNO= 17.93 CWSEL= 1290.83

STA=	9925.	9956.	10066.	10083.	10084.
PER Q=	.3	99.6	.1	.0	
AREA=	17.5	983.9	7.3	.2	
VEL=	2.5	15.6	2.1	.9	
DEPTH=	.6	8.9	.4	.1	

CCHV= .300 CEHV= .500
*SECNO 18.042

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

18.042	12.01	1294.31	.00	.00	1298.13	3.83	3.51	.03	1307.40
15400.0	.0	15400.0	.0	.0	981.2	.0	111.4	15.8	1307.40
.08	.00	15.70	.00	.000	.025	.000	.000	1282.30	9951.61
.004033	620.	581.	550.	3	0	0	.00	96.77	10048.37

FLOW DISTRIBUTION FOR SECNO= 18.04 CWSEL= 1294.31

STA=	9952.	10049.
PER Q=	100.0	
AREA=	981.2	
VEL=	15.7	
DEPTH=	10.1	

ICI4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	.00	75.00	4.00	1059.00	.81	1280.20	1279.90

*SECNO 18.061

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.43	1299.04	1.15	0.	15400.	1059.	1060.	1293.20	1301.60	0.
18.061	13.34	1296.44	.00	.00	1299.43	2.99	1.30	.00	1308.20
15400.0	.0	15400.0	.0	.0	1109.6	.0	113.9	16.0	1308.20
.08	.00	13.88	.00	.000	.025	.000	.000	1283.10	9951.54
.002759	101.	101.	101.	4	0	0	.00	96.89	10048.43

FLOW DISTRIBUTION FOR SECNO= 18.06 CWSEL= 1296.44

STA= 9952. 10049.
PER Q= 100.0
AREA= 1109.6
VEL= 13.9
DEPTH= 11.5

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.03

18.081	18.44	1299.54	.00	.00	1300.24	.71	.13	.69	1286.60
15400.0	1235.4	12529.0	1635.6	321.6	1737.7	383.4	118.2	16.4	1284.90
.09	3.84	7.21	4.27	.035	.035	.035	.000	1281.10	9876.96
.000672	80.	106.	130.	3	0	0	.00	229.55	10106.50

1CV4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 18.08 CWSEL= 1299.54

STA=	9877.	9899.	9942.	10045.	10088.	10107.
PER Q=	.1	7.9	81.4	10.5	.2	
AREA=	14.7	306.9	1737.7	362.7	20.7	
VEL=	.8	4.0	7.2	4.4	1.2	
DEPTH=	.7	7.1	16.9	8.4	1.1	

CCHV= .100 CEHV= .300

*SECNO 18.174

18.174	18.52	1300.22	.00	.00	1300.52	.30	.24	.04	1288.70	
15400.0	1569.9	11409.7	2420.4	475.0	2330.3	1162.7	154.4	21.1	1294.60	
.12	3.30	4.90	2.08	.035	.035	.035	.000	1281.70	9856.87	
.000364	500.	491.	490.	2	0	0	.00	597.81	10454.68	

FLOW DISTRIBUTION FOR SECNO= 18.17 CWSEL= 1300.22

STA=	9857.	9904.	9915.	9919.	10073.	10142.	10182.	10236.	10455.
PER Q=	5.0	3.9	1.3	74.1	4.6	4.8	4.1	2.3	
AREA=	287.9	138.3	48.9	2330.3	313.5	260.7	268.3	320.2	
VEL=	2.6	4.4	4.1	4.9	2.2	2.8	2.4	1.1	
DEPTH=	6.1	12.6	12.2	15.1	4.5	6.5	5.0	1.5	

*SECNO 18.269

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

18.269	16.37	1300.17	.00	.00	1300.93	.76	.27	.14	1288.40	
15400.0	2261.6	12456.5	681.9	445.4	1677.1	198.9	190.6	25.8	1292.40	
.14	5.08	7.43	3.43	.035	.035	.035	.000	1283.80	9881.86	
.000901	500.	502.	500.	2	0	0	.00	228.72	10110.59	

FLOW DISTRIBUTION FOR SECNO= 18.27 CWSEL= 1300.17

STA=	9882.	9928.	9942.	10060.	10071.	10111.
PER Q=	7.5	7.2	80.9	2.3	2.1	
AREA=	278.5	166.9	1677.1	76.7	122.2	
VEL=	4.1	6.7	7.4	4.6	2.7	
DEPTH=	6.0	11.9	14.2	7.0	3.1	

1671+PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.362

18.362	15.24	1300.54	.00	.00	1301.51	.97	.51	.06	1290.00
15400.0	1154.2	13225.4	1020.4	240.2	1585.1	239.3	215.4	28.3	1290.60
.16	4.81	8.34	4.26	.035	.035	.035	.000	1285.30	9895.21
.001223	490.	491.	510.	2	0	0	.00	212.97	10108.17

FLOW DISTRIBUTION FOR SECNO= 18.36 CWSEL= 1300.54

STA=	9895.	9905.	9942.	10060.	10108.
PER Q=	.1	7.4	85.9	6.6	
AREA=	9.5	230.7	1585.1	239.3	
VEL=	1.4	4.9	8.3	4.3	
DEPTH=	1.0	6.2	13.4	5.0	

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

18.445	18.09	1305.39	1305.39	.00	1307.48	2.09	.94	.34	1290.00
15400.0	5165.5	3758.6	6475.9	569.8	217.6	715.6	233.9	31.5	1290.00
.17	9.06	17.27	9.05	.035	.035	.035	.000	1287.30	9885.22
.004316	470.	440.	460.	20	11	0	.00	386.35	10271.57

FLOW DISTRIBUTION FOR SECNO= 18.44 CWSEL= 1305.39

STA=	9885.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10272.
PER Q=	3.3	18.8	11.5	24.4	30.6	4.3	3.9	3.2	.1	
AREA=	93.7	327.1	149.0	217.6	363.7	87.8	106.9	143.2	14.0	
VEL=	5.4	8.8	11.9	17.3	12.9	7.5	5.7	3.5	.9	
DEPTH=	2.7	5.6	10.6	16.7	10.4	4.4	2.9	1.4	.2	

1471PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.38	1308.45	.96	15108.	298.	33.	33.	1294.20	1299.50	458.

18.456	19.61	1307.31	.00	.00	1308.31	1.00	.83	.00	1290.40
15400.0	5168.4	2970.6	7261.0	741.4	237.5	1182.5	236.4	32.0	1290.40
.17	6.97	12.51	6.14	.035	.035	.035	.000	1287.70	9873.21
.002014	60.	60.	60.	3	0	8	.00	443.73	10316.94

FLOW DISTRIBUTION FOR SECNO= 18.46 CWSEL= 1307.31

STA=	9873.	9880.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10310.	10317.
PER Q=	.0	4.6	19.1	9.8	19.3	26.2	4.8	5.4	7.6	3.0	.0	
AREA=	2.4	152.8	415.8	170.4	237.5	417.2	118.4	163.5	300.7	178.1	4.6	
VEL=	1.0	4.6	7.1	8.9	12.5	9.7	6.2	5.1	3.9	2.6	1.4	
DEPTH=	.4	3.8	7.2	12.2	18.3	11.9	5.9	4.4	2.9	1.6	.7	

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.09

18.545	18.98	1308.28	.00	.00	1308.76	.47	.39	.05	1294.10
15400.0	1745.2	11300.0	2354.8	495.0	1857.3	682.4	264.2	36.0	1293.80
.20	3.53	6.08	3.45	.035	.035	.035	.000	1289.30	9881.31
.000460	440.	466.	480.	2	0	0	.00	288.68	10169.99

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 18.55 CWSEL= 1308.28

STA=	9881.	9889.	9951.	10058.	10073.	10094.	10108.	10121.	10135.	10170.
PER Q=	.0	11.3	73.4	5.4	4.8	1.9	1.0	1.1	1.0	
AREA=	6.1	488.9	1857.3	179.8	188.7	93.6	60.3	67.7	92.4	
VEL=	.8	3.6	6.1	4.6	3.9	3.2	2.5	2.6	1.7	
DEPTH=	.8	7.9	17.4	12.0	9.0	6.7	4.6	4.8	2.6	

*SECNO 18.575

18.575	19.13	1308.43	.00	.00	1308.83	.41	.07	.01	1291.50
15400.0	3584.2	3152.3	8663.5	833.2	511.1	1731.9	275.4	37.0	1289.70
.20	4.30	6.17	5.00	.035	.035	.035	.000	1289.30	9880.61
.000442	160.	160.	160.	2	0	0	.00	290.32	10170.93

FLOW DISTRIBUTION FOR SECNO= 18.58 CWSEL= 1308.43

STA=	9881.	9951.	9972.	10000.	10018.	10040.	10058.	10073.	10094.	10135.	10171.
PER Q=	11.4	11.8	20.5	13.8	16.2	10.8	5.4	4.8	4.1	1.1	
AREA=	505.0	328.2	511.1	337.1	403.2	293.0	181.9	191.7	227.4	97.5	
VEL=	3.5	5.5	6.2	6.3	6.2	5.7	4.5	3.9	2.8	1.7	
DEPTH=	7.2	15.6	18.3	18.7	18.3	16.3	12.1	9.1	5.5	2.7	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3108.06	1308.92	.09	14974.	431.	57.	56.	1295.40	1299.00	288.

18.583	20.10	1309.50	.00	.00	1309.84	.34	1.00	.00	1291.60
15400.0	3685.4	3046.3	8668.3	924.1	538.2	1900.7	278.3	37.3	1289.80
.21	3.99	5.66	4.56	.035	.035	.035	.000	1289.40	9875.91
.000347	40.	40.	40.	2	0	7	.00	301.44	10177.35

1C714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 18.58 CWSEL= 1309.50

STA=	9876.	9951.	9972.	10000.	10018.	10040.	10058.	10073.	10094.	10121.	10177.
PER Q=	12.3	11.6	19.8	13.3	15.7	10.5	5.4	5.1	3.4	2.9	
AREA=	575.5	348.5	538.2	354.6	424.5	310.5	196.5	212.0	183.9	218.7	
VEL=	3.3	5.1	5.7	5.8	5.7	5.2	4.2	3.7	2.8	2.0	
DEPTH=	7.7	16.6	19.2	19.7	19.3	17.2	13.1	10.1	6.8	3.9	

*SECNO 18.640

18.640	19.23	1309.43	.00	.00	1310.07	.64	.14	.09	1294.60
15400.0	2345.6	9850.5	3203.9	512.4	1350.9	710.6	299.1	39.3	1293.40
.22	4.58	7.29	4.51	.035	.035	.035	.000	1290.20	9879.37
.000663	300.	301.	310.	2	0	0	.00	255.52	10134.89

FLOW DISTRIBUTION FOR SECNO= 18.64 CWSEL= 1309.43

STA=	9879.	9887.	9920.	9955.	10033.	10111.	10132.	10135.
PER Q=	.0	2.3	12.9	64.0	20.6	.2	.0	
AREA=	3.9	129.6	378.9	1350.9	688.5	21.6	.6	
VEL=	.7	2.7	5.3	7.3	4.6	1.1	.4	
DEPTH=	.5	3.9	10.8	17.3	8.8	1.0	.2	

*SECNO 18.734

18.734	17.28	1309.68	.00	.00	1310.53	.84	.40	.06	1298.60
15400.0	1314.3	13486.7	599.0	303.8	1747.6	174.8	326.4	42.0	1300.80
.24	4.33	7.72	3.43	.035	.035	.035	.000	1292.40	9883.01
.000985	490.	496.	500.	0	0	0	.00	228.83	10111.84

FLOW DISTRIBUTION FOR SECNO= 18.73 CWSEL= 1309.68

STA=	9883.	9888.	9938.	10062.	10094.	10104.	10112.
PER Q=	.0	8.5	87.6	3.7	.1	.1	
AREA=	2.4	301.3	1747.6	152.9	13.8	8.1	
VEL=	.8	4.4	7.7	3.7	1.6	1.3	
DEPTH=	.5	6.0	14.1	4.8	1.4	1.0	

*SECNO 18.832

18.832	16.99	1310.19	.00	.00	1311.04	.85	.51	.00	1302.80
15400.0	437.5	12951.8	2010.7	137.9	1657.8	397.7	352.6	44.6	1297.10
.26	3.17	7.81	5.06	.035	.035	.035	.000	1293.20	9891.67
.001003	480.	517.	540.	2	0	0	.00	216.17	10107.84

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 18.83 CWSEL= 1310.19

STA=	9892.	9929.	10046.	10095. 10108.
PER Q=	2.8	84.1	12.9	.2
AREA=	137.9	1657.8	381.7	16.0
VEL=	3.2	7.8	5.2	1.5
DEPTH=	3.7	14.2	7.8	1.2

*SECNO 18.925

18.925	16.04	1310.64	.00	.00	1311.60	.97	.53	.03	1297.60
15400.0	1711.9	12782.4	905.7	348.3	1523.8	210.1	376.7	47.0	1300.00
.28	4.92	8.39	4.31	.035	.035	.035	.000	1294.60	9887.57
.001144	480.	491.	500.	2	0	0	.00	200.07	10087.64

FLOW DISTRIBUTION FOR SECNO= 18.92 CWSEL= 1310.64

STA=	9888.	9941.	10048.	10087.
PER Q=	11.1	83.0	5.9	
AREA=	348.3	1523.8	210.1	
VEL=	4.9	8.4	4.3	
DEPTH=	6.5	14.2	5.4	

*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

19.018	13.29	1310.89	.00	.00	1312.69	1.80	.84	.25	1305.10
15400.0	489.5	14883.1	27.4	106.9	1362.9	10.7	396.7	49.1	1308.40
.29	4.58	10.92	2.56	.035	.035	.035	.000	1297.60	9866.12
.002864	460.	491.	520.	2	0	0	.00	172.44	10038.56

FLOW DISTRIBUTION FOR SECNO= 19.02 CWSEL= 1310.89

STA=	9866.	9903.	10030.	10039.
PER Q=	3.2	96.6	.2	
AREA=	106.9	1362.9	10.7	
VEL=	4.6	10.9	2.6	
DEPTH=	2.9	10.7	1.2	

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

19.117	13.89	1312.49	1312.49	.00	1316.85	4.37	2.18	.77	1302.90
15400.0	1414.2	11917.8	2068.0	148.6	652.4	198.2	411.6	50.8	1301.50
.30	9.52	18.27	10.43	.035	.035	.035	.000	1298.60	9942.00
.006608	490.	523.	560.	20	8	0	.00	120.09	10062.09

FLOW DISTRIBUTION FOR SECNO= 19.12 CWSEL= 1312.49

STA=	9942.	9973.	10026.	10062.
PER Q=	9.2	77.4	13.4	
AREA=	148.6	652.4	198.2	
VEL=	9.5	18.3	10.4	
DEPTH=	4.8	12.3	5.5	

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

19.210	16.99	1317.19	.00	.00	1319.01	1.82	1.90	.25	1312.00
15400.0	227.0	14955.2	217.8	57.2	1364.2	55.0	425.5	52.4	1312.00
.31	3.97	10.96	3.96	.035	.035	.035	.000	1300.20	9922.94
.002538	500.	491.	490.	3	0	0	.00	158.26	10081.20

FLOW DISTRIBUTION FOR SECNO= 19.21 CWSEL= 1317.19

STA=	9923.	9945.	10060.	10081.
PER Q=	1.5	97.1	1.4	
AREA=	57.2	1364.2	55.0	
VEL=	4.0	11.0	4.0	
DEPTH=	2.6	11.9	2.6	

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	.00	1324.04	4.12	1.64	1.15	1311.70
14600.0	.0	14600.0	.0	.0	896.1	.0	436.1	53.6	1311.70
.32	.00	16.29	.00	.000	.035	.000	.000	1311.70	9948.00
.008876	390.	386.	390.	20	11	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.28 CWSEL= 1319.92

STA= 9948. 10057.
PER Q= 100.0
AREA= 896.1
VEL= 16.3
DEPTH= 8.2

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.96	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	.00	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	438.1	53.8	1311.70
.32	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.30 CWSEL= 1322.06

STA= 9948. 10057.
PER Q= 100.0
AREA= 1128.7
VEL= 12.9
DEPTH= 10.4

*SECNO 19.313

3301 HV CHANGED MORE THAN HVINS

19.313	11.61	1323.31	.00	.00	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.9	.0	440.1	54.0	1325.50
.32	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.34
.004073	75.	74.	75.	4	0	0	.00	159.66	10104.00

FLOW DISTRIBUTION FOR SECNO= 19.31 CWSEL= 1323.31

STA= 9944. 10112.
PER Q= 100.0
AREA= 1330.9
VEL= 11.0
DEPTH= 8.3

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 19.418

19.418	12.59	1325.59	.00	.00	1327.43	1.83	2.25	.00	1328.00
14600.0	.0	14600.0	.0	.0	1343.4	.0	457.2	56.1	1326.10
.34	.00	10.87	.00	.000	.035	.000	.000	1313.00	9955.11
.004041	570.	554.	530.	2	0	0	.00	162.69	10117.80

FLOW DISTRIBUTION FOR SECNO= 19.42 CWSEL= 1325.59

STA= 9955. 10120.
PER Q= 100.0
AREA= 1343.4
VEL= 10.9
DEPTH= 8.3

*SECNO 19.560

19.560	12.61	1328.21	.00	.00	1330.15	1.94	2.69	.03	1329.70
14600.0	.0	14600.0	.0	.0	1307.1	.0	479.3	58.5	1330.60
.35	.00	11.17	.00	.000	.035	.000	.000	1315.60	9931.38
.003389	730.	729.	720.	2	0	0	.00	129.60	10060.98

FLOW DISTRIBUTION FOR SECNO= 19.56 CWSEL= 1328.21

STA= 9931. 10065.
PER Q= 100.0
AREA= 1307.1
VEL= 11.2
DEPTH= 10.1

CCHV= .300 CEHV= .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.55

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1332.00 ELREA= 1332.00

19.625	12.29	1329.89	.00	.00	1330.82	.93	.37	.30	1317.60
5700.0	.0	5700.0	.0	.0	737.6	.0	487.9	59.3	1317.60
.37	.00	7.73	.00	.000	.015	.000	.000	1317.60	9965.00
.000214	580.	364.	70.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.63 CWSEL= 1329.89

STA= 9965. 10025.
PER Q= 100.0
AREA= 737.6
VEL= 7.7
DEPTH= 12.3

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	60.00	2.00	564.00	.00	1318.60	1317.60

*SECNO 19.691
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.37	1331.05	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	12.93	1331.53	.00	.00	1332.37	.84	1.55	.00	1318.60
5700.0	.0	5700.0	.0	.0	775.9	.0	494.0	59.8	1318.60
.38	.00	7.35	.00	.000	.015	.000	.000	1318.60	9965.00
.000181	330.	350.	430.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.69 CWSEL= 1331.53

14PRINT

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


STA=    9965.   10025.
  PER Q=    100.0
   AREA=    775.9
    VEL=      7.3
  DEPTH=     12.9

*SECNO 19.742
    19.742     12.89   1331.99       .00       .00   1332.51       .52       .05       .10   1331.60
    5700.0        .8    5699.0        .2       3.4     985.5        .8     499.4      60.3   1331.00
       .39        .23      5.78       .30      .035      .015      .035      .000   1319.10   9935.22
   .000165       80.       269.      470.         2         0         0       .00    108.35  10043.57


FLOW DISTRIBUTION FOR SECNO=     19.74          CWSEL=   1331.99

STA=    9935.    9948.   10042.   10044.
  PER Q=        .0    100.0        .0
   AREA=       3.4    985.5        .8
    VEL=        .2      5.8        .3
  DEPTH=        .3     10.5        .5

CCHV=     .100 CEHV=     .300
*SECNO 19.847

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .36

    19.847     13.34   1332.14       .00       .00   1332.73       .59       .20       .02   1336.30
    5700.0        .0    5700.0        .0        .0     925.1        .0     511.6      61.7   1335.80
       .42        .00      6.16       .00      .000      .035      .000      .000   1318.80   9940.63
   .001296       570.      554.      520.         2         0         0       .00    109.85  10050.49


FLOW DISTRIBUTION FOR SECNO=     19.85          CWSEL=   1332.14

STA=    9941.   10062.
  PER Q=    100.0
   AREA=    925.1
    VEL=      6.2
  DEPTH=      8.4
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14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .39

19.960	7.77	1332.37	1332.22	.00	1334.93	2.55	1.61	.59	1330.00
5700.0	38.9	5629.3	31.8	9.0	436.7	7.5	521.0	63.0	1330.00
.43	4.31	12.89	4.25	.035	.035	.035	.000	1324.60	9950.40
.008699	640.	597.	560.	4	11	0	.00	86.88	10037.28

FLOW DISTRIBUTION FOR SECNO= 19.96 CWSEL= 1332.37

STA=	9950.	9958.	10031.	10037.
PER Q=	.7	98.8	.6	
AREA=	9.0	436.7	7.5	
VEL=	4.3	12.9	4.3	
DEPTH=	1.2	6.0	1.2	

CCHV= .300 CEHV= .500
*SECNO 19.974

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1336.00 ELREA= 1336.00

19.974	9.51	1333.31	.00	.00	1335.46	2.14	.41	.12	1323.80
5700.0	.0	5700.0	.0	.0	485.1	.0	521.8	63.1	1323.80
.43	.00	11.75	.00	.000	.035	.000	.000	1323.80	9969.00
.003800	105.	74.	65.	3	0	0	.00	51.00	10020.00

FLOW DISTRIBUTION FOR SECNO= 19.97 CWSEL= 1333.31

STA=	9969.	10020.
PER Q=	100.0	
AREA=	485.1	
VEL=	11.8	
DEPTH=	9.5	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	51.00	3.00	480.00	.00	1324.10	1323.80

*SECNO 19.986

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	HJ	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1336.73	1336.01	.92	0.	5700.	480.	480.	1334.10	1337.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.45	1335.25	.00	.00	1336.73	1.48	1.27	.00	1323.80
5700.0	.0	5700.0	.0	.0	584.0	.0	522.6	63.2	1323.80
.43	.00	9.76	.00	.000	.035	.000	.000	1323.80	9969.00
.002047	61.	61.	61.	3	0	0	.00	51.00	10020.00

FLOW DISTRIBUTION FOR SECNO= 19.99 CWSEL= 1335.25

STA=	9969.	10020.
PER Q=	100.0	
AREA=	584.0	
VEL=	9.8	
DEPTH=	11.5	

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 1339.40

20.049	11.25	1338.35	1338.35	.00	1341.90	3.54	1.32	1.03	1343.40
5700.0	.0	5700.0	.0	.0	377.3	.0	526.2	63.6	1339.40
.44	.00	15.11	.00	.000	.035	.000	.000	1327.10	9971.56
.010738	305.	333.	345.	20	8	0	.00	53.63	10025.19

FLOW DISTRIBUTION FOR SECNO= 20.05 CWSEL= 1338.35

STA= 9972. 10027.
PER Q= 100.0
AREA= 377.3
VEL= 15.1
DEPTH= 7.0

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.58	1343.48	.00	.00	1345.07	1.58	2.97	.20	1344.60
5700.0	.0	5588.6	111.4	.0	548.7	32.7	531.8	64.4	1340.80
.45	.00	10.19	3.41	.000	.035	.040	.000	1330.90	9960.58
.003744	490.	502.	500.	2	0	0	.00	83.94	10044.51

FLOW DISTRIBUTION FOR SECNO= 20.14 CWSEL= 1343.48

STA=	9961.	10025.	10040.	10045.
PER Q=	98.0	1.9	.1	
AREA=	548.7	29.8	2.9	
VEL=	10.2	3.6	1.6	
DEPTH=	8.5	2.0	.6	

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.19	1345.49	.00	.00	1347.06	1.57	1.99	.00	1347.20
5700.0	.0	5546.3	153.7	.0	545.0	40.2	538.7	65.5	1342.80
.47	.00	10.18	3.83	.000	.035	.040	.000	1333.30	9961.30
.003942	470.	517.	560.	3	0	0	.00	88.68	10049.98

FLOW DISTRIBUTION FOR SECNO= 20.24 CWSEL= 1345.49

STA=	9961.	10029.	10041.	10050.
PER Q=	97.3	2.2	.5	
AREA=	545.0	29.9	10.3	
VEL=	10.2	4.3	2.5	
DEPTH=	8.1	2.5	1.1	

*SECNO 20.335

20.335	10.14	1347.44	.00	.00	1348.61	1.17	1.51	.04	1344.00
5700.0	31.7	5639.2	29.1	12.8	646.3	11.8	545.8	66.4	1344.00
.48	2.48	8.72	2.46	.040	.035	.040	.000	1337.30	9950.57
.002469	510.	491.	470.	2	0	0	.00	88.31	10038.88

FLOW DISTRIBUTION FOR SECNO= 20.33 CWSEL= 1347.44

STA=	9951.	9958.	10032.	10039.
PER Q=	.6	98.9	.5	
AREA=	12.8	646.3	11.8	
VEL=	2.5	8.7	2.5	
DEPTH=	1.7	8.7	1.7	

CCHV= .300 CEHV= .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1351.50 ELREA= 1351.50

K\14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
20.347	10.04	1347.24	.00	.00	1349.16	1.92	.18	.38	1337.20
5700.0	.0	5700.0	.0	.0	512.0	.0	546.7	66.5	1337.20
.49	.00	11.13	.00	.000	.035	.000	.000	1337.20	9970.00
.003174	1.	63.	150.	2	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.35 CWSEL= 1347.24

STA= 9970. 10021.
PER Q= 100.0
AREA= 512.0
VEL= 11.1
DEPTH= 10.0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1347.00 BRIDGE VELOCITY= 12.43 CALCULATED CHANNEL AREA= 446.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1349.64	.73	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.77	1347.97	.00	.00	1349.64	1.67	.48	.00	1337.20
5700.0	.0	5700.0	.0	.0	549.1	.0	547.9	66.7	1337.20
.49	.00	10.38	.00	.000	.035	.000	.000	1337.20	9970.00
.002515	100.	100.	100.	0	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.37 CWSEL= 1347.97

STA= 9970. 10021.
PER Q= 100.0
AREA= 549.1
VEL= 10.4
DEPTH= 10.8

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

20.423	11.57	1349.57	.00	.00	1350.51	.94	.65	.22	1345.00
5700.0	101.7	5266.2	332.1	37.2	655.8	86.9	552.4	67.2	1344.30
.50	2.73	8.03	3.82	.040	.035	.040	.000	1338.00	9958.69
.001888	415.	301.	205.	3	0	0	.00	112.82	10071.51

FLOW DISTRIBUTION FOR SECNO= 20.42 CWSEL= 1349.57

STA=	9959.	9975.	10045.	10055.	10072.
PER Q=	1.8	92.4	4.0	1.8	
AREA=	37.2	655.8	49.2	37.7	
VEL=	2.7	8.0	4.7	2.7	
DEPTH=	2.3	9.4	4.9	2.3	

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.83	1349.13	.00	.00	1351.13	2.01	.09	.53	1339.30
5700.0	.0	5700.0	.0	.0	501.4	.0	553.0	67.3	1339.30
.50	.00	11.37	.00	.000	.035	.000	.000	1339.30	9985.00
.003403	1.	37.	65.	2	0	0	.00	51.00	10036.00

FLOW DISTRIBUTION FOR SECNO= 20.43 CWSEL= 1349.13

STA=	9985.	10036.
PER Q=	100.0	
AREA=	501.4	
VEL=	11.4	
DEPTH=	9.8	

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.59 BRIDGE VELOCITY= 12.79 CALCULATED CHANNEL AREA= 446.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.50	1351.64	.80	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.62	1349.92	.00	.00	1351.64	1.72	.51	.00	1339.30
5700.0	.0	5700.0	.0	.0	541.8	.0	553.8	67.4	1339.30
.50	.00	10.52	.00	.000	.035	.000	.000	1339.30	9985.00
.002628	70.	70.	70.	0	0	0	.00	51.00	10036.00

FLOW DISTRIBUTION FOR SECNO= 20.44 CWSEL= 1349.92

STA= 9985. 10036.
PER Q= 100.0
AREA= 541.8
VEL= 10.5
DEPTH= 10.6

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

20.529	9.25	1352.25	.00	.00	1352.95	.70	1.00	.31	1350.20
5700.0	165.5	5398.1	136.3	70.2	784.4	61.5	561.4	68.6	1350.40
.52	2.36	6.88	2.22	.040	.035	.040	.000	1343.00	9905.35
.001924	545.	449.	375.	3	0	0	.00	189.83	10095.18

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 20.53 CWSEL= 1352.25

STA= 9905. 9910. 9947. 10055. 10090. 10095.
PER Q= .1 2.8 94.7 2.3 .1
AREA= 3.6 66.6 784.4 57.8 3.8
VEL= 1.3 2.4 6.9 2.3 1.3
DEPTH= .8 1.8 7.3 1.7 .7

CCHV= .100 CEHV= .300
*SECNO 20.628

20.628	10.01	1353.31	.00	.00	1353.74	.43	.76	.03	1357.10
5700.0	.0	5700.0	.0	.0	1089.4	.0	573.4	70.7	1356.30
.55	.00	5.23	.00	.000	.035	.000	.000	1343.30	9917.80
.001125	530.	523.	520.	2	0	0	.00	150.61	10068.41

FLOW DISTRIBUTION FOR SECNO= 20.63 CWSEL= 1353.31

STA= 9918. 10076.
PER Q= 100.0
AREA= 1089.4
VEL= 5.2
DEPTH= 7.2

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

20.725	8.84	1356.04	1356.04	.00	1359.09	3.06	1.32	.79	1360.40
5700.0	.0	5700.0	.0	.0	406.2	.0	582.2	72.0	1361.00
.56	.00	14.03	.00	.000	.035	.000	.000	1347.20	9959.29
.010764	510.	512.	520.	20	11	0	.00	67.22	10026.51

FLOW DISTRIBUTION FOR SECNO= 20.73 CWSEL= 1356.04

STA= 9959. 10036.
PER Q= 100.0
AREA= 406.2
VEL= 14.0
DEPTH= 6.0

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 20.737

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1363.00 ELREA= 1363.00

20.737	7.27	1358.17	1358.17	.00	1361.84	3.67	.80	.31	1350.90
5700.0	.0	5700.0	.0	.0	370.6	.0	582.9	72.1	1350.90
.56	.00	15.38	.00	.000	.035	.000	.000	1350.90	9968.00
.009320	80.	80.	80.	20	15	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.74 CWSEL= 1358.17

STA= 9968. 10019.
PER Q= 100.0
AREA= 370.6
VEL= 15.4
DEPTH= 7.3

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1356.93 , NOT 1358.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1351.00	1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.59

CLASS B LOW FLOW

K74PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	.00	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	583.6	72.1	1351.00
.56	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.75 CWSEL= 1360.60

STA= 9968. 10019.
PER Q= 100.0
AREA= 489.5
VEL= 11.6
DEPTH= 9.6

*SECNO 20.819

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	.00	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.6	.0	587.6	72.7	1356.50
.57	.00	12.46	.00	.000	.035	.000	.000	1356.50	9965.00
.008133	375.	365.	345.	3	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.82 CWSEL= 1362.37

STA= 9965. 10043.
PER Q= 100.0
AREA= 457.6
VEL= 12.5
DEPTH= 5.9

14CT14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	HJ	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

20.841	6.98	1364.38	.00	.00	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	588.9	72.9	1357.40
.57	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.84 CWSEL= 1364.38

STA= 9965. 10043.
PER Q= 100.0
AREA= 544.7
VEL= 10.5
DEPTH= 7.0

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.68	1365.98	.00	.00	1366.67	.69	.28	.30	1365.30
5700.0	86.2	5613.8	.0	77.9	834.8	.0	590.6	73.3	1367.60
.58	1.11	6.72	.00	.040	.035	.000	.000	1356.30	9800.89
.001946	90.	100.	110.	2	0	0	.00	261.14	10062.04

FLOW DISTRIBUTION FOR SECNO= 20.86 CWSEL= 1365.98

STA=	9801.	9846.	9942.	10066.
PER Q=	.4	1.1	98.5	
AREA=	21.8	56.1	834.8	
VEL=	1.0	1.1	6.7	
DEPTH=	.5	.6	7.0	

CCHV= .100 CEHV= .300
*SECNO 20.942

3265 DIVIDED FLOW

20.942	7.69	1367.29	.00	.00	1367.72	.43	1.02	.03	1368.60
5700.0	.0	3724.4	1975.6	.0	673.2	417.4	600.9	76.4	1366.50
.60	.02	5.53	4.73	.040	.035	.035	.000	1359.60	9629.81
.002779	530.	433.	490.	2	0	0	.00	313.22	10168.29

FLOW DISTRIBUTION FOR SECNO= 20.94 CWSEL= 1367.29

STA=	9630.	10024.	10027.	10053.	10070.	10114.	10153.	10168.
PER Q=	65.3	.3	5.3	2.5	6.4	17.0	3.3	
AREA=	673.2	5.1	69.9	37.2	96.3	165.3	43.5	
VEL=	5.5	2.9	4.3	3.8	3.8	5.9	4.3	
DEPTH=	4.0	1.7	2.7	2.2	2.2	4.2	2.8	

*SECNO 21.036

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.036	8.45	1371.95	1371.95	.00	1373.07	1.12	1.76	.21	1370.70
5700.0	367.1	5202.8	130.1	186.3	586.7	55.7	611.8	81.1	1370.40
.62	1.97	8.87	2.34	.040	.035	.040	.000	1363.50	9568.93
.004734	490.	496.	490.	20	12	0	.00	520.10	10089.02

FLOW DISTRIBUTION FOR SECNO= 21.04 CWSEL= 1371.95

STA=	9569.	9665.	9728.	9758.	9867.	9912.	10020.	10041.	10075.	10089.
PER Q=	.7	.5	.1	2.7	2.5	91.3	1.2	.9	.2	
AREA=	31.1	21.8	5.9	75.9	51.6	586.7	24.1	25.4	6.3	
VEL=	1.2	1.3	.9	2.0	2.8	8.9	2.8	2.1	1.5	
DEPTH=	.3	.3	.2	.7	1.1	5.4	1.1	.7	.4	

*SECNO 21.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1374.00 ELREA= 1375.00

21.127	8.05	1374.75	1374.75	.00	1375.74	1.00	2.13	.01	1374.20
5700.0	1077.1	4622.9	.0	394.1	525.4	.0	620.9	85.7	1375.00
.63	2.73	8.80	.00	.040	.035	.000	.000	1366.70	9631.62
.004360	400.	480.	500.	2	10	0	.00	434.39	10066.01

FLOW DISTRIBUTION FOR SECNO= 21.13 CWSEL= 1374.75

STA=	9632.	9634.	9666.	9759.	9860.	9913.	9974.	10067.
PER Q=	.0	1.7	5.8	6.7	2.9	1.8	81.1	
AREA=	1.4	36.7	115.9	130.9	60.7	48.6	525.4	
VEL=	1.6	2.7	2.8	2.9	2.7	2.1	8.8	
DEPTH=	.6	1.1	1.2	1.3	1.1	.8	5.7	

14/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.230	8.36	1380.36	1380.36	.00	1381.67	1.30	2.99	.09	1379.30
5700.0	508.8	4046.9	1144.3	153.5	391.9	191.5	631.2	90.4	1380.60
.65	3.32	10.33	5.98	.040	.035	.040	.000	1372.00	9818.28
.007215	560.	544.	500.	20	8	0	.00	304.81	10126.36

FLOW DISTRIBUTION FOR SECNO= 21.23 CWSEL= 1380.36

STA=	9818.	9879.	9930.	9967.	10048.	10083.	10102.	10117.	10126.
PER Q=	3.2	3.0	2.7	71.0	6.7	6.3	4.7	2.5	
AREA=	57.4	52.7	43.4	391.9	69.9	55.4	42.2	24.0	
VEL=	3.2	3.3	3.5	10.3	5.4	6.4	6.3	5.9	
DEPTH=	.9	1.0	1.2	5.0	2.0	2.9	2.8	2.6	

*SECNO 21.363

3265 DIVIDED FLOW

3280 CROSS SECTION 21.36 EXTENDED .36 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.07

21.363	9.27	1383.37	.00	.00	1383.90	.53	2.16	.08	1384.40
5700.0	98.2	5566.2	35.7	50.6	939.1	46.3	645.6	95.9	1382.10
.69	1.94	5.93	.77	.040	.035	.040	.000	1374.10	9556.04
.001686	740.	702.	700.	2	0	0	.00	366.91	10337.00

FLOW DISTRIBUTION FOR SECNO= 21.36 CWSEL= 1383.37

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9556. 9923. 10088. 10337.
PER Q= 1.7 97.7 .6
AREA= 50.6 939.1 46.3
VEL= 1.9 5.9 .8
DEPTH= .1 6.3 .2

*SECNO 21.484

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.484	8.03	1386.53	1386.53	.00	1387.44	.92	1.88	.11	1386.90
5700.0	2045.4	3648.0	6.6	511.1	400.0	4.0	659.9	102.2	1386.50
.71	4.00	9.12	1.63	.040	.035	.040	.000	1378.50	9497.84
.006378	650.	639.	520.	20	12	0	.00	514.70	10076.82

FLOW DISTRIBUTION FOR SECNO= 21.48 CWSEL= 1386.53

STA= 9498. 9614. 9647. 9678. 9805. 9837. 9867. 9892. 9920. 10026. 10077.
PER Q= 3.6 3.1 3.3 5.0 6.8 6.6 5.3 2.1 64.0 .1
AREA= 82.4 47.2 47.4 95.5 74.5 71.4 58.2 34.5 400.0 4.0
VEL= 2.5 3.8 3.9 3.0 5.2 5.3 5.2 3.5 9.1 1.6
DEPTH= .7 1.4 1.5 .8 2.3 2.4 2.3 1.2 4.5 .1

*SECNO 21.576

3265 DIVIDED FLOW

3280 CROSS SECTION 21.58 EXTENDED .54 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.576	7.14	1389.24	1389.24	.00	1390.02	.78	2.51	.01	1390.00
5700.0	720.9	4008.4	970.7	336.1	487.8	285.9	669.6	108.1	1388.30
.73	2.15	8.22	3.39	.040	.035	.040	.000	1382.10	9388.00
.005020	320.	486.	480.	2	12	0	.00	868.38	10340.54

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 21.58 CWSEL= 1389.24

STA=	9388.	9500.	9643.	9821.	9929.	10087.	10140.	10199.	10281.	10341.
PER Q=	3.6	3.0	3.3	2.7	70.3	6.8	6.0	3.7	.5	
AREA=	89.6	81.4	95.4	69.6	487.8	97.3	94.6	78.7	15.4	
VEL=	2.3	2.1	2.0	2.2	8.2	4.0	3.6	2.7	1.9	
DEPTH=	.8	.6	.5	.6	4.6	1.8	1.6	1.0	.3	

*SECNO 21.669

3265 DIVIDED FLOW

3280 CROSS SECTION 21.67 EXTENDED .18 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.669	9.38	1393.38	1393.38	.00	1393.98	.60	2.28	.02	1393.80
5500.0	905.3	2788.4	1806.3	390.6	338.0	558.6	682.4	117.7	1392.00
.75	2.32	8.25	3.23	.040	.035	.040	.000	1384.00	9392.00
.004519	440.	491.	470.	20	16	0	.00	977.37	10414.00

FLOW DISTRIBUTION FOR SECNO= 21.67 CWSEL= 1393.38

STA=	9392.	9515.	9663.	9893.	9949.	9959.	10031.	10074.	10124.	10182.	10245.	10303.	10361.
PER Q=	3.0	4.9	3.2	5.1	.2	50.7	5.1	4.6	5.6	5.2	4.2	4.5	
AREA=	80.3	122.7	95.6	85.0	6.8	338.0	76.4	76.3	91.4	89.8	76.9	79.8	
VEL=	2.1	2.2	1.8	3.3	1.9	8.3	3.7	3.3	3.4	3.2	3.0	3.1	
DEPTH=	.7	.8	.4	1.5	.7	5.3	1.8	1.5	1.6	1.4	1.3	1.4	

STA=	10361.	10401.	10414.
PER Q=	3.1	.6	
AREA=	54.9	13.1	
VEL=	3.1	2.5	
DEPTH=	1.4	1.0	

*SECNO 21.742

3265 DIVIDED FLOW

K/L4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.742	8.78	1395.18	1395.18	.00	1396.38	1.19	1.92	.18	1394.70
5500.0	29.1	5238.8	232.0	28.7	583.5	122.4	691.6	124.7	1394.20
.76	1.02	8.98	1.90	.040	.035	.040	.000	1386.40	9744.71
.005365	430.	385.	390.	2	8	0	.00	525.85	10353.48

FLOW DISTRIBUTION FOR SECNO= 21.74 CWSEL= 1395.18

STA=	9745.	9975.	10091.	10240.	10353.
PER Q=	.5	95.3	3.1	1.1	
AREA=	28.7	583.5	80.6	41.8	
VEL=	1.0	9.0	2.1	1.5	
DEPTH=	.1	5.0	.5	.4	

*SECNO 21.840

21.840	6.94	1398.04	.00	.00	1398.83	.80	2.42	.04	1396.20
5500.0	945.8	4157.0	397.3	210.1	524.6	174.1	700.8	129.7	1397.00
.78	4.50	7.92	2.28	.040	.035	.040	.000	1391.10	9857.22
.004314	430.	517.	430.	2	0	0	.00	437.88	10295.09

FLOW DISTRIBUTION FOR SECNO= 21.84 CWSEL= 1398.04

STA=	9857.	9860.	9882.	9913.	9931.	9946.	10054.	10097.	10145.	10186.	10227.	10273.	10295.
PER Q=	.0	2.2	7.6	4.7	2.6	75.6	2.9	2.7	.6	.4	.6	.1	
AREA=	1.0	36.1	86.5	52.1	34.4	524.6	55.6	54.8	20.2	16.1	22.6	4.9	
VEL=	1.2	3.4	4.8	5.0	4.2	7.9	2.9	2.7	1.5	1.3	1.5	.9	
DEPTH=	.4	1.6	2.8	2.9	2.3	4.9	1.3	1.1	.5	.4	.5	.2	

*SECNO 21.895
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.895	7.77	1399.67	1399.67	.00	1400.47	.80	1.34	.00	1398.00
5500.0	1555.3	2864.4	1080.2	327.5	311.9	397.8	707.1	132.8	1397.70
.80	4.75	9.18	2.72	.040	.035	.040	.000	1391.90	9834.78
.004943	330.	290.	220.	1	8	0	.00	596.22	10431.00

KCTS4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 21.90 CWSEL= 1399.67

STA=	9835.	9885.	9919.	9939.	9975.	10031.	10113.	10187.	10251.	10292.	10364.	10431.
PER Q=	9.5	9.9	4.3	4.6	52.1	4.2	4.1	4.1	3.1	3.0	1.2	
AREA=	112.3	100.9	49.3	64.9	311.9	84.3	80.6	76.1	54.0	65.9	36.8	
VEL=	4.7	5.4	4.8	3.9	9.2	2.7	2.8	3.0	3.1	2.5	1.8	
DEPTH=	2.2	3.0	2.5	1.8	5.6	1.0	1.1	1.2	1.3	.9	.5	

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.01

21.933	4.06	1400.86	.00	.00	1400.99	.13	.46	.07	1398.00
5500.0	1740.2	3230.1	529.7	808.7	951.6	269.8	714.5	136.5	1398.00
.82	2.15	3.39	1.96	.040	.035	.040	.000	1396.80	9314.75
.001221	210.	210.	210.	2	0	0	.00	970.39	10285.14

FLOW DISTRIBUTION FOR SECNO= 21.93 CWSEL= 1400.86

STA=	9315.	9440.	9590.	9680.	9725.	9780.	9840.	9865.	10140.	10285.
PER Q=	.4	2.0	6.0	7.2	8.8	5.1	2.1	58.7	9.6	
AREA=	35.1	106.5	167.4	142.2	173.8	129.6	54.0	951.6	269.8	
VEL=	.6	1.0	2.0	2.8	2.8	2.2	2.2	3.4	2.0	
DEPTH=	.3	.7	1.9	3.2	3.2	2.2	2.2	3.5	1.9	

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.953	7.06	1401.06	1401.06	.00	1402.01	.94	.20	.24	1400.20
5500.0	2374.6	2981.8	143.6	470.2	313.0	32.2	716.9	137.8	1398.30
.82	5.05	9.53	4.45	.045	.045	.045	.000	1394.00	9424.44
.009459	75.	74.	75.	20	14	0	.00	459.91	10052.98

1471PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 21.95 CWSEL= 1401.06

STA=	9424.	9678.	9699.	9714.	9725.	9735.	9759.	9768.	9782.	9810.	9965.	9969.	10029.
PER Q=	4.1	3.5	4.1	5.2	4.3	4.5	3.3	5.0	5.9	3.2	.3	54.2	
AREA=	94.3	39.1	37.7	38.5	33.6	48.3	27.1	41.5	60.5	45.2	4.4	313.0	
VEL=	2.4	4.9	5.9	7.4	7.1	5.1	6.6	6.6	5.4	3.8	3.4	9.5	
DEPTH=	.4	1.9	2.5	3.5	3.4	2.0	3.0	3.0	2.2	.3	1.1	5.2	

STA=	10029.	10053.
PER Q=	2.6	
AREA=	32.2	
VEL=	4.5	
DEPTH=	1.3	

*SECNO 22.065

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.94

22.065	8.28	1404.08	.00	.00	1404.25	.17	2.17	.08	1404.10
5500.0	4154.8	1273.9	71.3	1389.6	294.2	31.6	730.7	144.2	1402.00
.86	2.99	4.33	2.26	.045	.045	.045	.000	1395.80	9242.08
.002509	430.	591.	630.	4	0	0	.00	777.84	10049.66

FLOW DISTRIBUTION FOR SECNO= 22.07 CWSEL= 1404.08

STA=	9242.	9500.	9594.	9645.	9657.	9680.	9700.	9731.	9785.	9816.	9869.	9890.	9961.
PER Q=	24.1	5.7	7.6	3.2	5.9	5.3	3.8	4.5	6.5	4.9	3.7	.4	
AREA=	500.1	143.7	124.0	44.8	83.5	73.6	69.7	80.3	99.4	92.7	60.5	17.3	
VEL=	2.7	2.2	3.4	4.0	3.9	3.9	3.0	3.1	3.6	2.9	3.3	1.2	
DEPTH=	1.9	1.5	2.4	3.7	3.6	3.7	2.2	1.5	3.2	1.7	2.9	.2	

STA=	9961.	10028.	10050.
PER Q=	23.2	1.3	
AREA=	294.2	31.6	
VEL=	4.3	2.3	
DEPTH=	4.4	1.5	

1/4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.165

3265 DIVIDED FLOW

22.165	10.25	1405.25	.00	.00	1405.46	.21	1.20	.01	1400.90
5500.0	4034.5	1433.3	32.3	1386.7	266.1	24.2	751.3	154.0	1403.70
.90	2.91	5.39	1.33	.045	.045	.045	.000	1395.00	9137.48
.002042	530.	528.	530.	3	0	0	.00	828.27	10060.52

FLOW DISTRIBUTION FOR SECNO= 22.17 CWSEL= 1405.25

STA=	9137.	9204.	9213.	9222.	9232.	9256.	9308.	9425.	9595.	9637.	9645.	9657.	9669.
PER Q=	6.3	3.5	4.4	3.9	4.4	3.3	3.9	3.3	4.7	3.6	4.9	3.2	
AREA=	119.1	44.6	51.3	50.0	75.7	85.9	131.5	109.1	86.3	43.2	61.2	47.4	
VEL=	2.9	4.3	4.8	4.3	3.2	2.1	1.6	1.6	3.0	4.6	4.4	3.7	
DEPTH=	1.8	5.0	5.7	5.0	3.2	1.7	1.1	.6	2.1	5.4	5.1	4.0	

STA=	9669.	9701.	9834.	9862.	9946.	9983.	10018.	10061.
PER Q=	3.2	4.7	5.0	4.2	6.9	26.1	.6	
AREA=	67.7	111.6	86.4	98.9	116.8	266.1	24.2	
VEL=	2.6	2.3	3.2	2.4	3.3	5.4	1.3	
DEPTH=	2.1	.8	3.1	1.2	3.2	7.6	.6	

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

22.273	7.26	1406.66	.00	.00	1407.38	.71	1.77	.15	1404.10
5500.0	1973.6	3526.4	.0	437.6	454.3	.0	766.0	160.9	1406.90
.93	4.51	7.76	.00	.045	.045	.000	.000	1399.40	9320.96
.006928	470.	570.	580.	2	0	0	.00	419.21	10027.44

FLOW DISTRIBUTION FOR SECNO= 22.27 CWSEL= 1406.66

STA=	9321.	9344.	9359.	9574.	9598.	9754.	9774.	9915.	9933.	10028.
PER Q=	4.7	5.4	3.4	4.9	3.1	6.8	3.1	4.5	64.1	
AREA=	48.7	48.9	64.5	55.6	64.2	62.5	46.1	47.1	454.3	
VEL=	5.3	6.0	2.9	4.8	2.7	6.0	3.7	5.2	7.8	
DEPTH=	2.1	3.3	.3	2.3	.4	3.1	.3	2.6	4.8	

KCL4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

22.410	10.22	1414.22	1414.22	.00	1415.98	1.76	5.65	.31	1410.70
5500.0	768.3	4585.8	145.9	157.3	400.5	38.0	778.5	166.1	1411.30
.94	4.89	11.45	3.83	.045	.045	.045	.000	1404.00	9854.46
.008756	750.	723.	630.	3	11	0	.00	193.61	10066.88

FLOW DISTRIBUTION FOR SECNO= 22.41 CWSEL= 1414.22

STA=	9854.	9903.	9954.	9967.	9973.	10027.	10067.
PER Q=	3.5	3.7	4.4	2.4	83.4	2.7	
AREA=	55.7	43.9	38.0	19.6	400.5	38.0	
VEL=	3.5	4.6	6.3	6.8	11.5	3.8	
DEPTH=	1.1	.9	2.9	3.3	7.4	1.0	

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.56

22.483	10.96	1416.46	.00	.00	1416.58	.12	.44	.16	1411.10
5500.0	301.1	4551.8	647.1	194.8	1523.7	375.4	790.4	168.4	1411.20
.98	1.55	2.99	1.72	.045	.045	.045	.000	1405.50	9874.91
.000421	380.	385.	390.	3	0	0	.00	325.09	10199.99

FLOW DISTRIBUTION FOR SECNO= 22.48 CWSEL= 1416.46

STA=	9875.	9891.	9915.	9941.	10105.	10120.	10138.	10156.	10175.	10191.	10200.
PER Q=	.2	1.6	3.7	82.8	2.4	2.2	2.1	2.6	2.1	.3	
AREA=	16.5	65.0	113.3	1523.7	70.6	72.1	69.4	79.9	66.5	16.9	
VEL=	.7	1.3	1.8	3.0	1.9	1.7	1.7	1.8	1.8	1.0	
DEPTH=	1.0	2.7	4.4	9.3	4.7	4.0	3.9	4.2	4.2	1.9	

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.578

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .31

22.578	9.65	1416.34	.00	.00	1417.33	.99	.50	.26	1416.60
5500.0	.0	5500.0	.0	.0	688.9	.0	806.5	170.8	1421.20
1.00	.00	7.98	.00	.000	.045	.000	.000	1406.70	9968.38
.004498	540.	502.	490.	3	0	0	.00	95.82	10064.20

FLOW DISTRIBUTION FOR SECNO= 22.58 CWSEL= 1416.34

STA= 9968. 10072.
PER Q= 100.0
AREA= 688.9
VEL= 8.0
DEPTH= 7.2

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.57

22.675	8.31	1418.01	.00	.00	1418.14	.14	.72	.09	1419.80
5500.0	.0	5500.0	.0	.0	1858.1	.0	821.5	173.1	1420.00
1.05	.00	2.96	.00	.000	.045	.000	.000	1409.70	9740.49
.000680	570.	512.	480.	2	0	0	.00	287.90	10028.39

FLOW DISTRIBUTION FOR SECNO= 22.67 CWSEL= 1418.01

STA= 9740. 10032.
PER Q= 100.0
AREA= 1858.1
VEL= 3.0
DEPTH= 6.5

KC14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.794

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .51

22.794	7.85	1418.55	.00	.00	1418.97	.42	.75	.09	1417.80
5500.0	1.3	5395.1	103.6	1.5	1029.4	42.0	842.5	176.7	1416.10
1.08	.87	5.24	2.47	.045	.045	.045	.000	1410.70	9978.95
.002603	460.	628.	500.	2	0	0	.00	215.74	10194.69

FLOW DISTRIBUTION FOR SECNO= 22.79 CWSEL= 1418.55

STA=	9979.	9983.	10169.	10189.	10195.
PER Q=	.0	98.1	1.8	.1	
AREA=	1.5	1029.4	38.1	3.9	
VEL=	.9	5.2	2.6	1.3	
DEPTH=	.4	5.5	1.9	.7	

*SECNO 22.880

22.880	7.05	1420.05	.00	.00	1420.62	.58	1.60	.05	1426.40
5500.0	.0	5500.0	.0	.0	901.9	.0	852.8	178.9	1424.20
1.10	.00	6.10	.00	.000	.045	.000	.000	1413.00	9952.13
.005065	440.	454.	480.	2	0	0	.00	211.78	10163.91

FLOW DISTRIBUTION FOR SECNO= 22.88 CWSEL= 1420.05

STA=	9952.	10167.
PER Q=	100.0	
AREA=	901.9	
VEL=	6.1	
DEPTH=	4.3	

*SECNO 22.990

22.990	5.73	1423.63	.00	.00	1424.26	.62	3.62	.01	1425.40
5500.0	.0	5500.0	.0	.0	869.8	.0	864.6	182.1	1427.90
1.13	.00	6.32	.00	.000	.045	.000	.000	1417.90	9754.06
.007840	480.	581.	530.	3	0	0	.00	272.08	10026.14

14PRINT

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    SECNO      DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q          QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME       VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE      XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=     22.99          CWSEL=   1423.63

STA=    9754.   10034.
  PER Q=    100.0
   AREA=    869.8
    VEL=      6.3
  DEPTH=      3.2

*SECNO 23.097

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    23.097      4.79   1429.89   1429.89       .00   1431.46      1.57      6.49       .28   1432.30
    5500.0      38.9    5461.1        .0      13.4     541.7        .0     873.9     185.1   1430.80
      1.14      2.89     10.08       .00      .045      .045      .000      .000   1425.10   9899.14
   .018369      640.      565.      490.        10        11         0       .00    186.86  10117.43


FLOW DISTRIBUTION FOR SECNO=     23.10          CWSEL=   1429.89

STA=    9899.    9916.    9925.    9927.   10121.
  PER Q=       .4       .3       .0     99.3
   AREA=      8.3      4.8       .2    541.7
    VEL=      2.9      3.0      1.2     10.1
  DEPTH=       .5       .5       .1      3.4

*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.09

    23.168      4.15   1433.05       .00       .00   1433.22       .17      1.62       .14   1429.50
    5500.0     763.8    4435.3     300.9     310.9    1269.5     143.5     883.4     188.4   1430.30
      1.18      2.46      3.49      2.10      .045      .045      .045      .000   1428.90   9604.29
   .001925      330.      375.      300.         5         0         0       .00    609.23  10213.52
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14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.17 CWSEL= 1433.05

STA=	9604.	9657.	9718.	9777.	10116.	10176.	10214.
PER Q=	.6	4.1	9.2	80.6	5.0	.5	
AREA=	33.0	106.8	171.1	1269.5	120.0	23.5	
VEL=	1.1	2.1	2.9	3.5	2.3	1.1	
DEPTH=	.6	1.8	2.9	3.7	2.0	.6	

*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

23.253	9.33	1434.53	1434.53	.00	1437.36	2.83	1.55	.80	1437.50
3400.0	.0	3400.0	.0	.0	252.0	.0	893.8	191.8	1444.20
1.19	.00	13.49	.00	.000	.040	.000	.000	1425.20	9978.44
.014919	470.	459.	450.	20	17	0	.00	44.74	10023.18

FLOW DISTRIBUTION FOR SECNO= 23.25 CWSEL= 1434.53

STA=	9978.	10038.
PER Q=	100.0	
AREA=	252.0	
VEL=	13.5	
DEPTH=	5.6	

*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS

23.334	7.79	1440.39	.00	.00	1441.83	1.43	4.33	.14	1443.80
3400.0	.0	3400.0	.0	.0	353.7	.0	896.7	192.4	1449.80
1.20	.00	9.61	.00	.000	.040	.000	.000	1432.60	9969.06
.007640	400.	417.	420.	2	0	0	.00	66.92	10035.98

FLOW DISTRIBUTION FOR SECNO= 23.33 CWSEL= 1440.39

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9969. 10055.
PER Q= 100.0
AREA= 353.7
VEL= 9.6
DEPTH= 5.3

*SECNO 23.416

23.416	7.32	1443.82	.00	.00	1445.60	1.77	3.67	.10	1447.80
3400.0	.0	3400.0	.0	.0	318.3	.0	900.1	193.0	1450.20
1.21	.00	10.68	.00	.000	.040	.000	.000	1436.50	9980.93
.009442	400.	433.	430.	3	0	0	.00	59.14	10040.07

FLOW DISTRIBUTION FOR SECNO= 23.42 CWSEL= 1443.82

STA= 9981. 10053.
PER Q= 100.0
AREA= 318.3
VEL= 10.7
DEPTH= 5.4

*SECNO 23.514

23.514	8.51	1448.11	.00	.00	1449.46	1.35	3.82	.04	1451.40
3400.0	.0	3400.0	.0	.0	364.8	.0	904.1	193.7	1451.10
1.22	.00	9.32	.00	.000	.040	.000	.000	1439.60	9977.54
.005937	560.	517.	470.	2	0	0	.00	57.47	10035.01

FLOW DISTRIBUTION FOR SECNO= 23.51 CWSEL= 1448.11

STA= 9978. 10039.
PER Q= 100.0
AREA= 364.8
VEL= 9.3
DEPTH= 6.3

*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
23.544	7.51	1448.91	.00	.00	1450.79	1.88	1.17	.16	1453.20
3400.0	.0	3400.0	.0	.0	309.4	.0	905.4	193.9	1452.90
1.23	.00	10.99	.00	.000	.040	.000	.000	1441.40	9978.90
.009552	190.	158.	150.	2	0	0	.00	54.80	10033.70

FLOW DISTRIBUTION FOR SECNO= 23.54 CWSEL= 1448.91

STA= 9979. 10039.
PER Q= 100.0
AREA= 309.4
VEL= 11.0
DEPTH= 5.6

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.95

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.59	2.80	3249.	152.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	.00	1453.37	.74	2.58	.00	1453.80
3400.0	.0	3400.0	.0	.0	493.8	.0	905.9	194.0	1453.50
1.23	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.56 CWSEL= 1452.64

STA= 9975. 10039.
PER Q= 100.0
AREA= 493.8
VEL= 6.9
DEPTH= 7.8

*SECNO 23.591
3280 CROSS SECTION 23.59 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.95	1453.15	.00	.00	1453.93	.78	.54	.01	1452.90
3400.0	.0	3400.0	.0	.0	478.5	.0	908.0	194.3	1453.80
1.24	.00	7.11	.00	.000	.040	.000	.000	1444.20	9968.00
.003292	100.	190.	210.	3	0	0	.00	75.49	10043.49

FLOW DISTRIBUTION FOR SECNO= 23.59 CWSEL= 1453.15

STA= 9968. 10045.
PER Q= 100.0
AREA= 478.5
VEL= 7.1
DEPTH= 6.3

*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.75	1455.15	.00	.00	1456.48	1.33	2.39	.16	1457.60
3400.0	.0	3400.0	.0	.0	367.9	.0	913.2	195.1	1455.30
1.25	.00	9.24	.00	.000	.040	.000	.000	1446.40	9970.39
.006585	510.	528.	540.	2	0	0	.00	65.33	10035.72

1C/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.69 CWSEL= 1455.15

STA= 9970. 10036.
PER Q= 100.0
AREA= 367.9
VEL= 9.2
DEPTH= 5.6

*SECNO 23.815

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.815	9.31	1459.01	.00	.00	1460.09	1.08	3.59	.02	1458.90
4350.0	.0	4350.0	.0	.0	520.9	.0	919.8	196.3	1457.80
1.28	.00	8.35	.00	.000	.040	.000	.000	1449.70	9951.00
.004797	650.	655.	680.	3	0	0	.00	86.00	10037.00

FLOW DISTRIBUTION FOR SECNO= 23.82 CWSEL= 1459.01

STA= 9951. 10037.
PER Q= 100.0
AREA= 520.9
VEL= 8.4
DEPTH= 6.1

*SECNO 23.912
3280 CROSS SECTION 23.91 EXTENDED .14 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.912	13.14	1461.04	.00	.00	1462.18	1.14	2.07	.02	1461.30
5300.0	.0	5300.0	.0	.0	619.1	.0	926.5	197.2	1460.90
1.29	.00	8.56	.00	.000	.040	.000	.000	1447.90	9967.41
.003558	480.	512.	510.	3	0	0	.00	75.59	10043.00

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.91 CWSEL= 1461.04

STA= 9967. 10043.
PER Q= 100.0
AREA= 619.1
VEL= 8.6
DEPTH= 8.2

*SECNO 23.9B9

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.9B9	12.91	1462.61	.00	.00	1463.23	.63	1.00	.05	1465.60
5300.0	.0	5300.0	.0	.0	835.0	.0	933.3	198.0	1465.80
1.31	.00	6.35	.00	.000	.040	.000	.000	1449.70	9944.77
.001801	400.	407.	410.	2	0	0	.00	98.91	10043.68

FLOW DISTRIBUTION FOR SECNO= 23.99 CWSEL= 1462.61

STA= 9945. 10049.
PER Q= 100.0
AREA= 835.0
VEL= 6.3
DEPTH= 8.4

CCHV= .300 CEHV= .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1463.70 ELREA= 1463.70

24.086	9.84	1463.44	.00	.00	1464.31	.87	.95	.12	1453.60
5300.0	.0	5300.0	.0	.0	708.4	.0	942.4	199.0	1453.60
1.33	.00	7.48	.00	.000	.040	.000	.000	1453.60	9972.00
.001924	450.	512.	560.	4	0	0	.00	72.00	10044.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 24.09 CWSEL= 1463.44

STA= 9972. 10044.
PER Q= 100.0
AREA= 708.4
VEL= 7.5
DEPTH= 9.8

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	71.60	3.00	590.00	.00	1453.60	1453.60

*SECNO 24.096
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1465.39	1464.37	.08	0.	5300.	590.	590.	1462.20	1466.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1466.00 ELREA= 1466.00

24.096	11.11	1464.71	.00	.00	1465.39	.68	1.09	.00	1453.60
5300.0	.0	5300.0	.0	.0	800.4	.0	943.4	199.1	1453.60
1.33	.00	6.62	.00	.000	.040	.000	.000	1453.60	9972.00
.001280	56.	56.	56.	2	0	0	.00	72.00	10044.00

FLOW DISTRIBUTION FOR SECNO= 24.10 CWSEL= 1464.71

STA= 9972. 10044.
PER Q= 100.0
AREA= 800.4
VEL= 6.6
DEPTH= 11.1

*SECNO 24.106

24.106	11.01	1465.21	.00	.00	1465.55	.34	.05	.10	1464.10
5300.0	1.1	4877.6	421.3	1.3	1012.1	185.1	944.5	199.2	1458.50
1.33	.80	4.82	2.28	.035	.040	.050	.000	1454.20	9952.58
.000889	80.	53.	20.	2	0	0	.00	166.78	10119.36

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 24.11 CWSEL= 1465.21

STA=	9953.	9955.	10064.	10091.	10108.	10119.
PER Q=	.0	92.0	6.6	1.2	.1	
AREA=	1.3	1012.1	135.4	41.1	8.6	
VEL=	.8	4.8	2.6	1.6	.7	
DEPTH=	.6	9.3	5.0	2.4	.8	

CCHV= .100 CEHV= .300
*SECNO 24.195

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

24.195	12.09	1465.69	.00	.00	1465.84	.15	.27	.02	1470.40
5300.0	.0	5300.0	.0	.0	1706.8	.0	960.2	201.2	1466.40
1.38	.00	3.11	.00	.000	.040	.000	.000	1453.60	9941.09
.000402	470.	470.	460.	2	0	0	.00	196.58	10137.67

FLOW DISTRIBUTION FOR SECNO= 24.19 CWSEL= 1465.69

STA=	9941.	10142.
PER Q=	100.0	
AREA=	1706.8	
VEL=	3.1	
DEPTH=	8.7	

*SECNO 24.322

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.22

24.322	14.31	1465.91	.00	.00	1465.95	.04	.10	.01	1463.50
5300.0	6.2	4200.3	1093.4	14.5	2371.1	1071.5	999.4	205.4	1456.80
1.49	.43	1.77	1.02	.035	.040	.050	.000	1451.60	9858.94
.000081	640.	671.	630.	2	0	0	.00	366.31	10225.25

FLOW DISTRIBUTION FOR SECNO= 24.32 CWSEL= 1465.91

STA=	9859.	9871.	10064.	10134.	10177.	10220.	10225.
PER Q=	.1	79.3	12.9	5.9	1.8	.0	
AREA=	14.5	2371.1	606.3	312.3	151.0	1.9	
VEL=	.4	1.8	1.1	1.0	.6	.1	
DEPTH=	1.2	12.3	8.7	7.3	3.5	.4	

14CT4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.444

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .33

24.444	8.65	1465.95	.00	.00	1466.10	.15	.12	.03	1465.00
5300.0	.4	4211.2	1088.5	.7	1324.9	405.4	1037.0	210.1	1461.70
1.55	.49	3.18	2.69	.045	.045	.045	.000	1457.30	9926.47
.000727	640.	644.	600.	2	0	0	.00	277.67	10204.13

FLOW DISTRIBUTION FOR SECNO= 24.44 CWSEL= 1465.95

STA=	9926.	9928.	10122.	10142.	10166.	10180.	10204.
PER Q=	.0	79.5	6.0	8.3	4.0	2.3	
AREA=	.7	1324.9	113.1	147.7	76.4	68.2	
VEL=	.5	3.2	2.8	3.0	2.8	1.7	
DEPTH=	.5	6.8	5.7	6.2	5.5	2.8	

*SECNO 24.542

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .28

24.542	6.53	1466.33	.00	.00	1467.25	.92	.91	.23	1464.00
5300.0	26.1	5273.9	.0	7.8	684.1	.0	1051.5	212.8	1467.80
1.57	3.33	7.71	.00	.045	.045	.000	.000	1459.80	9907.26
.008955	470.	517.	530.	2	0	0	.00	181.23	10181.31

FLOW DISTRIBUTION FOR SECNO= 24.54 CWSEL= 1466.33

STA=	9907.	9914.	10187.
PER Q=	.5	99.5	
AREA=	7.8	684.1	
VEL=	3.3	7.7	
DEPTH=	1.2	3.9	

1CT14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.635

24.635	5.25	1472.05	1471.83	.00	1473.32	1.28	5.97	.11	1474.50
5300.0	.0	5300.0	.0	.0	584.2	.0	1058.7	214.9	1472.40
1.58	.00	9.07	.00	.000	.045	.000	.000	1466.80	9911.01
.017410	650.	491.	220.	12	15	0	.00	194.18	10105.18

FLOW DISTRIBUTION FOR SECNO= 24.64 CWSEL= 1472.05

STA=	9911.	10111.
PER Q=	100.0	
AREA=	584.2	
VEL=	9.1	
DEPTH=	3.0	

*SECNO 24.738

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

24.738	4.89	1476.89	.00	.00	1477.18	.29	3.76	.10	1481.20
5200.0	.0	1399.4	3800.6	.0	323.2	872.8	1070.7	218.6	1480.90
1.62	.00	4.33	4.35	.000	.045	.045	.000	1472.00	9936.06
.003356	350.	544.	630.	4	0	0	.00	355.18	10340.68

FLOW DISTRIBUTION FOR SECNO= 24.74 CWSEL= 1476.89

STA=	9936.	10038.	10088.	10127.	10224.	10291.	10330.	10341.
PER Q=	26.9	.6	10.4	33.5	19.3	8.4	.9	
AREA=	323.2	12.1	128.1	372.1	230.2	112.5	17.5	
VEL=	4.3	2.5	4.2	4.7	4.4	3.9	2.6	
DEPTH=	3.4	.2	3.3	3.8	3.4	2.9	1.6	

*SECNO 24.838

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

24.838	5.63	1480.33	1480.33	.00	1480.92	.60	3.02	.09	1483.80
5200.0	.0	1244.3	3955.7	.0	140.6	777.8	1082.0	223.9	1483.50
1.64	.00	8.85	5.09	.000	.045	.045	.000	1474.70	9968.35
.016849	470.	528.	450.	1	12	0	.00	650.49	10633.62

FLOW DISTRIBUTION FOR SECNO= 24.84 CWSEL= 1480.33

STA=	9968.	10019.	10066.	10111.	10162.	10185.	10219.	10270.	10365.	10450.	10630.	10634.
PER Q=	23.9	3.3	4.2	6.7	3.0	4.5	6.7	12.5	11.2	23.7	.1	
AREA=	140.6	39.1	48.4	67.6	30.5	45.1	67.6	125.9	112.7	238.6	2.4	
VEL=	8.8	4.4	4.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	3.1	
DEPTH=	3.1	.8	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	.7	

*SECNO 24.943

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.83

24.943	5.74	1483.44	.00	.00	1483.57	.12	2.60	.05	1481.80
5200.0	851.4	498.4	3850.1	351.0	132.5	1408.1	1100.2	233.3	1484.80
1.70	2.43	3.76	2.73	.045	.045	.045	.000	1477.70	9801.22
.002110	530.	554.	570.	7	0	0	.00	799.36	10618.77

FLOW DISTRIBUTION FOR SECNO= 24.94 CWSEL= 1483.44

STA=	9801.	9813.	9926.	9945.	9983.	10017.	10044.	10080.	10540.	10610.	10619.
PER Q=	.3	12.7	1.6	1.8	9.6	.5	4.7	59.5	9.1	.3	
AREA=	10.3	253.6	36.0	51.1	132.5	13.8	88.0	1124.5	171.1	10.7	
VEL=	1.4	2.6	2.3	1.8	3.8	1.7	2.8	2.8	2.8	1.7	
DEPTH=	.9	2.2	1.9	1.3	4.2	.5	2.4	2.4	2.4	1.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.048

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

25.048	3.57	1487.27	1487.27	.00	1487.98	.71	2.60	.18	1486.60
5200.0	1444.5	645.1	3110.4	283.5	84.2	430.3	1116.8	241.8	1493.60
1.72	5.10	7.66	7.23	.045	.045	.045	.000	1483.70	9705.76
.02060B	580.	554.	520.	20	14	0	.00	557.24	10481.24

FLOW DISTRIBUTION FOR SECNO= 25.05 CWSEL= 1487.27

STA=	9706.	9817.	9941.	9966.	10017.	10154.	10223.	10247.	10450.	10470.	10481.
PER Q=	8.8	16.9	2.2	12.4	18.7	10.0	12.0	3.8	13.1	2.3	
AREA=	101.7	157.6	24.3	84.2	157.2	91.1	66.4	31.9	65.4	18.4	
VEL=	4.5	5.6	4.6	7.7	6.2	5.7	9.4	6.1	10.4	6.4	
DEPTH=	.9	1.3	1.0	2.1	1.1	1.3	2.8	.2	3.3	1.6	

*SECNO 25.163

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.21

25.163	6.19	1492.19	.00	.00	1492.51	.31	4.49	.04	1491.60
4900.0	205.3	1143.6	3551.1	73.5	218.9	823.3	1129.8	248.2	1493.10
1.76	2.79	5.23	4.31	.045	.045	.045	.000	1486.00	9922.08
.003749	640.	607.	580.	5	0	0	.00	369.01	10297.84

FLOW DISTRIBUTION FOR SECNO= 25.16 CWSEL= 1492.19

STA=	9922.	9947.	9965.	9972.	10025.	10044.	10088.	10147.	10220.	10291.	10298.
PER Q=	1.0	2.6	.5	23.3	1.3	12.6	16.9	20.9	20.3	.6	
AREA=	24.8	38.6	10.1	218.9	23.6	140.5	188.4	233.1	226.7	10.9	
VEL=	2.0	3.4	2.5	5.2	2.7	4.4	4.4	4.4	4.4	2.6	
DEPTH=	1.0	2.1	1.4	4.3	1.2	3.2	3.2	3.2	3.2	1.6	

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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*SECNO 25.262
3280 CROSS SECTION     25.26 EXTENDED       .01 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1491.60 ELREA=      1510.00
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25.262	10.01	1494.01	.00	.00	1494.20	.19	1.68	.01	1491.60
4900.0	4119.0	781.0	.0	1187.1	220.4	.0	1144.7	253.4	1496.80
1.80	3.47	3.54	.00	.045	.045	.000	.000	1484.00	9501.71
.002847	470.	523.	570.	5	0	0	.00	521.78	10023.49

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FLOW DISTRIBUTION FOR SECNO=     25.26          CWSEL=   1494.01
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STA=	9502.	9513.	9547.	9618.	9646.	9689.	9707.	9823.	9948.	10030.
PER Q=	1.4	12.9	14.3	3.6	4.5	1.1	18.7	27.4	15.9	
AREA=	24.9	139.8	199.6	60.5	82.2	24.5	285.5	370.1	220.4	
VEL=	2.8	4.5	3.5	2.9	2.7	2.2	3.2	3.6	3.5	
DEPTH=	2.2	4.1	2.8	2.2	1.9	1.4	2.5	3.0	2.9	

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*SECNO 25.374
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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25.374	6.07	1499.37	1499.37	.00	1499.62	.26	1.89	.02	1499.30
4900.0	3795.5	1104.5	.0	981.1	238.1	.0	1164.7	260.2	1498.80
1.84	3.87	4.64	2.06	.045	.045	.045	.000	1493.30	9655.94
.002869	680.	591.	300.	20	20	0	.00	367.07	10023.00

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FLOW DISTRIBUTION FOR SECNO=     25.37          CWSEL=   1499.37
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STA=	9656.	9659.	9704.	9838.	9920.	9933.	9944.	9950.	9955.	9963.	9969.	10023.
PER Q=	.0	6.3	39.3	22.9	3.4	1.8	.5	.9	2.0	.3	22.5	
AREA=	1.8	101.9	471.1	280.1	42.4	27.1	9.4	13.3	25.7	8.2	238.1	
VEL=	1.2	3.0	4.1	4.0	3.9	3.2	2.4	3.2	3.8	2.1	4.6	
DEPTH=	.6	2.3	3.5	3.4	3.3	2.5	1.6	2.7	3.2	1.4	4.4	

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*SECNO 25.434
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1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1504.90 ELREA= 1504.00

25.434	8.17	1503.97	1503.97	.00	1506.92	2.95	1.79	.81	1504.90
4900.0	.0	4900.0	.0	.0	355.5	.0	1171.4	262.0	1504.00
1.85	.00	13.78	.00	.000	.035	.000	.000	1495.80	9970.53
.011721	400.	317.	190.	20	14	0	.00	65.40	10035.93

FLOW DISTRIBUTION FOR SECNO= 25.43 CWSEL= 1503.97

STA= 9971. 10036.
PER Q= 100.0
AREA= 355.5
VEL= 13.8
DEPTH= 5.4

*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.25

25.500	10.04	1507.74	.00	.00	1508.08	.34	.91	.26	1511.50
4900.0	.0	4900.0	.0	.0	1043.7	.0	1177.0	263.0	1509.00
1.87	.00	4.69	.00	.000	.035	.000	.000	1497.70	9923.52
.001109	250.	349.	420.	2	0	0	.00	170.83	10094.35

FLOW DISTRIBUTION FOR SECNO= 25.50 CWSEL= 1507.74

STA= 9924. 10105.
PER Q= 100.0
AREA= 1043.7
VEL= 4.7
DEPTH= 6.1

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 25.523

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

25.523	11.99	1507.99	.00	.00	1508.19	.20	.07	.04	1498.00
4900.0	472.4	3501.1	926.6	229.7	885.4	337.9	1180.4	263.5	1498.00
1.88	2.06	3.95	2.74	.050	.035	.035	.000	1496.00	9930.02
.000331	120.	121.	120.	2	0	0	.00	161.62	10091.63

FLOW DISTRIBUTION FOR SECNO= 25.52 CWSEL= 1507.99

STA=	9930.	9950.	9963.	10037.	10050.	10092.
PER Q=	3.0	6.7	71.5	9.5	9.4	
AREA=	99.8	129.9	885.4	129.9	208.0	
VEL=	1.5	2.5	4.0	3.6	2.2	
DEPTH=	5.0	10.0	12.0	10.0	5.0	

*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

25.534	5.21	1510.75	1510.75	.00	1513.36	2.61	.04	1.20	1515.00
4900.0	.0	4900.0	.0	.0	378.2	.0	1181.6	263.6	1515.00
1.88	.00	12.96	.00	.000	.015	.000	.000	1505.54	9963.45
.002246	58.	58.	58.	20	14	0	.00	73.10	10036.55

FLOW DISTRIBUTION FOR SECNO= 25.53 CWSEL= 1510.75

STA=	9963.	10037.
PER Q=	100.0	
AREA=	378.2	
VEL=	13.0	
DEPTH=	5.2	

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

25.551	6.67	1512.21	1510.75	.00	1513.80	1.58	.13	.31	1515.00
4900.0	.0	4900.0	.0	.0	485.2	.0	1182.5	263.8	1515.00
1.88	.00	10.10	.00	.000	.015	.000	.000	1505.54	9963.29
.001025	90.	90.	90.	25	5	0	.00	73.41	10036.71

FLOW DISTRIBUTION FOR SECNO= 25.55 CWSEL= 1512.21

STA= 9963. 10037.
PER Q= 100.0
AREA= 485.2
VEL= 10.1
DEPTH= 6.6

*SECNO 25.557

25.557	6.54	1512.08	.00	.00	1514.01	1.93	.04	.18	1515.00
4900.0	.0	4900.0	.0	.0	439.0	.0	1182.9	263.8	1515.00
1.88	.00	11.16	.00	.000	.015	.000	.000	1505.54	9959.87
.001385	32.	32.	32.	2	0	0	.00	80.27	10040.13

FLOW DISTRIBUTION FOR SECNO= 25.56 CWSEL= 1512.08

STA= 9960. 10046.
PER Q= 100.0
AREA= 439.0
VEL= 11.2
DEPTH= 5.5

*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
25.561	8.76	1514.36	.00	.00	1514.55	.19	.02	.52	1514.90
2900.0	.0	2900.0	.0	.0	825.4	.0	1183.2	263.9	1515.20
1.89	.00	3.51	.00	.000	.035	.000	.000	1505.60	9949.33
.000529	20.	21.	20.	3	0	0	.00	117.68	10067.02

FLOW DISTRIBUTION FOR SECNO= 25.56 CWSEL= 1514.36

STA=	9949.	10069.
PER Q=	100.0	
AREA=	825.4	
VEL=	3.5	
DEPTH=	7.0	

CCHV= .100 CEHV= .300
*SECNO 25.680

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

25.680	8.24	1514.74	.00	.00	1514.78	.04	.21	.02	1514.40
2700.0	297.0	1319.3	1083.6	333.0	759.6	733.6	1202.4	269.4	1511.20
2.00	.89	1.74	1.48	.035	.035	.035	.000	1506.50	9471.45
.000225	580.	628.	660.	2	0	0	.00	663.75	10305.23

FLOW DISTRIBUTION FOR SECNO= 25.68 CWSEL= 1514.74

STA=	9471.	9688.	9796.	9927.	10093.	10167.	10278.	10295.	10305.
PER Q=	3.0	6.6	1.4	48.9	10.6	21.6	6.6	1.4	
AREA=	82.4	169.5	81.1	759.6	217.7	393.2	91.7	30.9	
VEL=	1.0	1.0	.5	1.7	1.3	1.5	2.0	1.2	
DEPTH=	.4	1.6	.6	4.6	2.9	3.5	5.4	3.0	

*SECNO 25.786

3265 DIVIDED FLOW

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1518.90 ELREA= 1515.80

25.786	5.62	1516.32	1516.32	.00	1516.97	.64	.32	.18	1518.90
2500.0	.0	1867.5	632.5	.0	258.0	212.4	1216.3	275.6	1515.80
2.02	.00	7.24	2.98	.000	.035	.035	.000	1510.70	9982.01
.005773	600.	560.	470.	20	18	0	.00	351.98	10442.86

FLOW DISTRIBUTION FOR SECNO= 25.79 CWSEL= 1516.32

STA=	9982.	10056.	10189.	10273.	10418.	10435.	10440.	10443.
PER Q=	74.7	11.2	3.6	2.1	5.7	2.4	.4	
AREA=	258.0	102.9	43.0	22.1	30.2	11.1	3.0	
VEL=	7.2	2.7	2.1	2.3	4.7	5.5	2.9	
DEPTH=	3.5	.8	.5	.2	1.8	2.2	1.1	

*SECNO 25.947

25.947	6.67	1521.07	.00	.00	1521.63	.56	4.65	.01	1522.70
2300.0	.0	1967.1	332.9	.0	315.1	80.7	1224.7	280.5	1520.60
2.06	.00	6.24	4.13	.000	.035	.035	.000	1514.40	9958.72
.005225	870.	850.	830.	2	0	0	.00	164.54	10123.26

FLOW DISTRIBUTION FOR SECNO= 25.95 CWSEL= 1521.07

STA=	9959.	10066.	10107.	10113.	10119.	10123.
PER Q=	85.5	6.7	3.2	3.9	.7	
AREA=	315.1	46.3	14.0	15.5	4.9	
VEL=	6.2	3.3	5.3	5.8	3.1	
DEPTH=	2.9	1.1	2.3	2.6	1.1	

*SECNO 26.058

26.058	7.29	1523.49	.00	.00	1523.98	.49	2.35	.01	1522.00
2200.0	620.8	1579.2	.0	178.1	251.8	.0	1230.1	282.8	1524.00
2.09	3.49	6.27	.00	.035	.035	.000	.000	1516.20	9841.26
.003212	540.	586.	570.	2	0	0	.00	182.03	10023.28

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.06 CWSEL= 1523.49

STA=	9841.	9904.	9927.	9951.	9966.	10024.
PER Q=	4.3	7.2	11.6	5.1	71.8	
AREA=	46.6	43.3	58.4	29.8	251.8	
VEL=	2.0	3.7	4.4	3.8	6.3	
DEPTH=	.7	1.9	2.4	2.0	4.4	

*SECNO 26.152

26.152	4.99	1524.99	.00	.00	1525.46	.46	1.47	.00	1525.40
2000.0	.0	2000.0	.0	.0	366.7	.0	1234.2	284.1	1526.00
2.12	.00	5.45	.00	.000	.035	.000	.000	1520.00	9958.10
.003182	240.	496.	550.	2	0	0	.00	105.87	10063.97

FLOW DISTRIBUTION FOR SECNO= 26.15 CWSEL= 1524.99

STA=	9958.	10069.
PER Q=	100.0	
AREA=	366.7	
VEL=	5.5	
DEPTH=	3.5	

*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

26.265	6.15	1528.15	1528.15	.00	1529.39	1.24	3.01	.23	1531.70
1900.0	.0	1758.2	141.8	.0	190.6	38.9	1238.2	285.5	1526.50
2.14	.00	9.23	3.64	.000	.035	.035	.000	1522.00	9972.98
.009530	580.	597.	610.	5	11	0	.00	103.26	10076.25

FLOW DISTRIBUTION FOR SECNO= 26.26 CWSEL= 1528.15

STA=	9973.	10029.	10076.
PER Q=	92.5	7.5	
AREA=	190.6	38.9	
VEL=	9.2	3.6	
DEPTH=	3.4	.8	

14/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.96

26.372	7.55	1531.35	.00	.00	1531.67	.32	2.19	.09	1531.60
1700.0	.0	1700.0	.0	.0	372.2	.0	1242.1	286.8	1533.80
2.17	.00	4.57	.00	.000	.035	.000	.000	1523.80	9967.15
.001979	600.	565.	510.	3	0	0	.00	97.17	10064.32

FLOW DISTRIBUTION FOR SECNO= 26.37 CWSEL= 1531.35

STA= 9967. 10080.
PER Q= 100.0
AREA= 372.2
VEL= 4.6
DEPTH= 3.8

*SECNO 26.492

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.99

26.492	6.45	1532.15	.00	.00	1532.22	.08	.53	.02	1537.50
1600.0	.0	1600.0	.0	.0	720.9	.0	1250.1	288.8	1536.00
2.25	.00	2.22	.00	.000	.035	.000	.000	1525.70	9885.25
.000442	640.	634.	610.	3	0	0	.00	183.14	10068.38

FLOW DISTRIBUTION FOR SECNO= 26.49 CWSEL= 1532.15

STA= 9885. 10084.
PER Q= 100.0
AREA= 720.9
VEL= 2.2
DEPTH= 3.9

*SECNO 26.582

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 6.37

26.582	8.14	1532.24	.00	.00	1532.24	.00	.01	.01	1528.20
1300.0	594.6	479.1	226.4	1979.9	1035.9	773.7	1274.4	293.7	1527.20
2.61	.30	.46	.29	.040	.030	.040	.000	1524.10	9470.61
.000007	460.	475.	480.	2	0	0	.00	718.47	10189.08

FLOW DISTRIBUTION FOR SECNO= 26.58 CWSEL= 1532.24

STA=	9471.	9539.	9568.	9602.	9655.	9691.	9725.	9752.	9786.	9845.	9869.	10028.	10086.
PER Q=	6.7	5.0	4.9	6.6	4.4	4.0	3.2	3.7	5.3	2.0	36.9	7.5	
AREA=	281.5	186.8	198.6	282.5	188.7	174.8	140.2	168.0	258.0	100.6	1035.9	315.7	
VEL=	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.5	.3	
DEPTH=	4.1	6.4	5.8	5.3	5.2	5.1	5.2	4.9	4.4	4.2	6.5	5.4	

STA=	10086.	10123.	10157.	10189.
PER Q=	4.7	3.8	1.4	
AREA=	199.5	170.6	87.9	
VEL=	.3	.3	.2	
DEPTH=	5.4	5.0	2.7	

*SECNO 26.673

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1535.00 ELREA= 1533.20

26.673	2.18	1533.98	1533.98	.00	1534.51	.53	.01	.16	1534.30
1300.0	.0	1094.7	205.3	.0	174.3	74.2	1297.1	299.0	1533.20
2.64	.00	6.28	2.77	.000	.030	.040	.000	1531.80	9957.84
.009696	510.	480.	460.	20	14	0	.00	239.18	10280.56

K/L4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.67 CWSEL= 1533.98

STA=	9958.	10077.	10105.	10120.	10205.	10237.	10265.	10281.
PER Q=	84.2	5.2	.9	.0	3.6	5.2	.9	
AREA=	174.3	21.8	5.8	.3	18.5	21.8	6.1	
VEL=	6.3	3.1	1.9	1.2	2.5	3.1	1.9	
DEPTH=	1.5	.8	.4	.0	.6	.8	.4	

*SECNO 26.784
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

26.784	3.48	1546.18	1546.18	.00	1547.20	1.02	5.95	.15	1551.20
1100.0	.0	1100.0	.0	.0	135.8	.0	1299.6	301.0	1551.50
2.66	.00	8.10	.00	.000	.030	.000	.000	1542.70	9980.90
.010938	590.	586.	530.	20	14	0	.00	68.01	10048.91

FLOW DISTRIBUTION FOR SECNO= 26.78 CWSEL= 1546.18

STA=	9981.	10080.
PER Q=	100.0	
AREA=	135.8	
VEL=	8.1	
DEPTH=	2.0	

*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 42.71

26.883	7.21	1547.31	.00	.00	1547.31	.00	.01	.10	1544.70
1000.0	.9	936.4	62.7	9.9	2370.0	292.0	1316.4	304.0	1542.80
3.04	.10	.40	.21	.040	.030	.040	.000	1540.10	9765.39
.000005	530.	523.	500.	2	0	0	.00	434.21	10199.60

FLOW DISTRIBUTION FOR SECNO= 26.88 CWSEL= 1547.31

1/4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9765.	9773.	10122.	10148.	10166.	10179.	10194.	10200.
PER Q=	.1	93.6	2.7	2.0	1.1	.4	.0	
AREA=	9.9	2370.0	119.8	85.6	52.1	31.6	2.8	
VEL=	.1	.4	.2	.2	.2	.1	.1	
DEPTH=	1.3	6.8	4.6	4.8	4.0	2.1	.5	

*SECNO 26.984

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

26.984	6.81	1547.31	.00	.00	1547.32	.00	.00	.00	1545.50	
900.0	1.3	764.0	134.7	9.7	1283.2	393.8	1342.5	308.7	1546.50	
3.30	.13	.60	.34	.040	.030	.040	.000	1540.50	9932.30	
.000015	480.	533.	460.	2	0	0	.00	371.10	10336.41	

FLOW DISTRIBUTION FOR SECNO= 26.98 CWSEL= 1547.31

STA=	9932.	9943.	10170.	10256.	10271.	10290.	10323.	10336.
PER Q=	.1	84.9	3.2	3.2	3.7	4.2	.7	
AREA=	9.7	1283.2	94.9	71.5	86.1	115.2	26.1	
VEL=	.1	.6	.3	.4	.4	.3	.2	
DEPTH=	.9	5.7	1.1	4.8	4.5	3.5	1.9	

*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1565.00 ELREA= 1562.60

27.060	5.36	1559.46	1559.46	.00	1561.02	1.56	.02	.47	1560.80	
900.0	.0	900.0	.0	.0	89.8	.0	1351.0	310.7	1562.60	
3.31	.00	10.02	.00	.000	.030	.000	.000	1554.10	9983.67	
.010153	270.	401.	470.	20	15	0	.00	29.47	10013.14	

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 27.06 CWSEL= 1559.46

STA= 9984. 10019.
PER Q= 100.0
AREA= 89.8
VEL= 10.0
DEPTH= 3.0

*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.65

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1565.00 ELREA= 1565.00

27.166	6.98	1562.18	.00	.00	1562.35	.17	1.19	.14	1564.20
600.0	.0	600.0	.0	.0	181.4	.0	1352.7	311.1	1563.90
3.36	.00	3.31	.00	.000	.030	.000	.000	1555.20	9981.04
.000644	560.	560.	560.	3	0	0	.00	38.99	10020.03

FLOW DISTRIBUTION FOR SECNO= 27.17 CWSEL= 1562.18

STA= 9981. 10023.
PER Q= 100.0
AREA= 181.4
VEL= 3.3
DEPTH= 4.7

*SECNO 27.294

27.294	6.54	1562.54	.00	.00	1562.59	.05	.23	.01	1565.20
400.0	.0	400.0	.0	.0	232.9	.0	1355.9	311.8	1564.60
3.47	.00	1.72	.00	.000	.030	.000	.000	1556.00	9972.01
.000167	710.	676.	630.	3	0	0	.00	50.20	10022.21

FLOW DISTRIBUTION FOR SECNO= 27.29 CWSEL= 1562.54

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9972. 10027.
PER Q= 100.0
AREA= 232.9
VEL= 1.7
DEPTH= 4.6

CCHV= .100 CEHV= .300
*SECNO -19.560
START TRIB COMP

-19.560	19.560	1328.212							
-19.560	12.61	1328.21	.00	.00	1330.15	1.93	.00	.00	1329.70
14600.0	.0	14600.0	.0	.0	1307.9	.0	1368.8	313.3	1330.60
3.48	.00	11.16	.00	.000	.035	.000	.000	1315.60	9931.37
.003382	730.	729.	720.	0	0	0	.00	129.62	10060.99

FLOW DISTRIBUTION FOR SECNO= -19.56 CWSEL= 1328.21

STA= 9931. 10065.
PER Q= 100.0
AREA= 1307.9
VEL= 11.2
DEPTH= 10.1

*SECNO .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.029	9.75	1329.35	1329.35	.00	1332.60	3.24	1.11	.39	1329.50
9500.0	.0	9478.3	21.7	.0	654.9	17.3	1378.6	314.6	1328.20
3.49	.00	14.47	1.25	.000	.015	.035	.000	1319.60	9942.56
.001821	380.	430.	450.	20	15	0	.00	130.50	10073.06

FLOW DISTRIBUTION FOR SECNO= .03 CWSEL= 1329.35

STA= 9943. 10043. 10073.
PER Q= 99.8 .2
AREA= 654.9 17.3
VEL= 14.5 1.3
DEPTH= 6.5 .6

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .112

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

.112	11.44	1332.94	.00	.00	1333.44	.50	.57	.27	1332.10
9500.0	100.1	9399.9	.0	87.6	1654.0	.0	1391.9	317.1	1334.80
3.52	1.14	5.68	.00	.035	.030	.000	.000	1321.50	9762.30
.000828	430.	483.	450.	3	0	0	.00	330.25	10092.55

FLOW DISTRIBUTION FOR SECNO= .11 CWSEL= 1332.94

STA=	9762.	9804.	9816.	9863.	9887.	10101.
PER Q=	.0	.1	.6	.3	98.9	
AREA=	7.1	7.7	49.0	23.8	1654.0	
VEL=	.4	.9	1.3	1.2	5.7	
DEPTH=	.2	.6	1.0	1.0	8.0	

*SECNO .198

.198	9.51	1333.31	.00	.00	1333.94	.63	.46	.04	1332.40
9500.0	13.9	9486.1	.0	15.6	1493.4	.0	1408.9	320.1	1337.80
3.54	.89	6.35	.00	.035	.030	.000	.000	1323.80	9860.87
.001241	460.	454.	420.	2	0	0	.00	249.57	10110.44

FLOW DISTRIBUTION FOR SECNO= .20 CWSEL= 1333.31

STA=	9861.	9897.	10133.
PER Q=	.1	99.9	
AREA=	15.6	1493.4	
VEL=	.9	6.4	
DEPTH=	.4	7.0	

*SECNO .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

.288	7.61	1333.31	1333.31	.00	1335.83	2.52	1.21	.57	1336.00
9500.0	.0	9500.0	.0	.0	745.7	.0	1421.2	322.3	1335.90
3.55	.00	12.74	.00	.000	.030	.000	.000	1325.70	9903.19
.007920	470.	475.	460.	3	15	0	.00	150.75	10053.94

FLOW DISTRIBUTION FOR SECNO= .29 CWSEL= 1333.31

STA= 9903. 10069.
PER Q= 100.0
AREA= 745.7
VEL= 12.7
DEPTH= 4.9

*SECNO .398

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

.398	8.47	1337.27	.00	.00	1338.35	1.08	2.37	.14	1338.90
9500.0	.0	9500.0	.0	.0	1138.7	.0	1433.7	324.5	1340.60
3.57	.00	8.34	.00	.000	.030	.000	.000	1328.80	9912.48
.002485	600.	581.	540.	2	0	0	.00	181.83	10094.30

FLOW DISTRIBUTION FOR SECNO= .40 CWSEL= 1337.27

STA= 9912. 10119.
PER Q= 100.0
AREA= 1138.7
VEL= 8.3
DEPTH= 6.3

*SECNO .482
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.482	11.15	1342.35	1342.35	.00	1343.41	1.05	1.00	.00	1341.10
9500.0	79.0	6887.4	2533.6	36.5	722.3	941.8	1446.3	328.4	1338.00
3.58	2.17	9.54	2.69	.035	.030	.035	.000	1331.20	9903.83
.002295	440.	444.	270.	20	12	0	.00	889.74	10793.57

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .48 CWSEL= 1342.35

STA=	9904.	9937.	10024.	10093.	10236.	10315.	10402.	10528.	10794.
PER Q=	.8	72.5	9.0	4.9	3.6	3.1	3.4	2.6	
AREA=	36.4	722.3	203.8	189.3	124.7	117.7	145.3	161.1	
VEL=	2.2	9.5	4.2	2.5	2.8	2.5	2.2	1.6	
DEPTH=	1.1	8.3	3.0	1.3	1.6	1.4	1.2	.6	

*SECNO .575

.575	12.32	1343.82	.00	.00	1344.53	.71	1.09	.03	1340.20
9500.0	727.3	7778.2	994.5	211.3	1057.4	451.4	1465.7	337.6	1343.10
3.60	3.44	7.36	2.20	.035	.030	.035	.000	1331.50	9777.80
.002143	460.	491.	500.	3	0	0	.00	730.21	10508.02

FLOW DISTRIBUTION FOR SECNO= .57 CWSEL= 1343.82

STA=	9778.	9869.	10049.	10105.	10113.	10186.	10239.	10274.	10411.	10508.
PER Q=	7.7	81.9	1.2	.1	.7	2.1	2.1	4.0	.3	
AREA=	211.3	1057.4	57.1	6.6	45.3	77.9	67.2	167.2	30.1	
VEL=	3.4	7.4	2.0	1.7	1.4	2.5	3.0	2.2	.9	
DEPTH=	2.3	5.9	1.0	.8	.6	1.5	1.9	1.2	.3	

*SECNO .697

.697	11.06	1345.06	.00	.00	1346.10	1.04	1.47	.10	1346.40
9400.0	.0	9013.5	386.5	.0	1081.8	113.6	1487.2	344.8	1341.40
3.62	.00	8.33	3.40	.000	.030	.035	.000	1334.00	9856.01
.002432	640.	644.	640.	2	0	0	.00	237.20	10093.21

FLOW DISTRIBUTION FOR SECNO= .70 CWSEL= 1345.06

STA=	9856.	10023.	10061.	10093.
PER Q=	95.9	3.8	.3	
AREA=	1081.8	93.4	20.2	
VEL=	8.3	3.8	1.5	
DEPTH=	6.5	2.5	.6	

*SECNO .826

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

.826	9.49	1348.29	1348.29	.00	1350.53	2.23	2.75	.36	1345.50
9400.0	729.3	8670.7	.0	129.5	700.6	.0	1503.0	348.2	1349.50
3.64	5.63	12.38	.00	.035	.035	.000	.000	1338.80	9845.35
.007973	680.	681.	660.	20	15	0	.00	199.85	10045.20

FLOW DISTRIBUTION FOR SECNO= .83 CWSEL= 1348.29

STA=	9845.	9893.	9929.	10050.
PER Q=	1.8	6.0	92.2	
AREA=	45.1	84.4	700.6	
VEL=	3.7	6.7	12.4	
DEPTH=	.9	2.3	6.0	

*SECNO .945

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

.945	11.72	1352.12	.00	.00	1352.63	.52	1.93	.17	1348.60
9400.0	1059.5	7814.3	526.3	363.8	1260.4	223.3	1522.5	353.8	1349.50
3.67	2.91	6.20	2.36	.035	.035	.035	.000	1340.40	9624.18
.001604	680.	628.	600.	3	0	0	.00	561.70	10185.88

FLOW DISTRIBUTION FOR SECNO= .94 CWSEL= 1352.12

STA=	9624.	9674.	9704.	9769.	9819.	9843.	9856.	10034.	10046.	10100.	10186.
PER Q=	.0	.1	2.9	4.8	2.0	1.5	83.1	.9	3.1	1.6	
AREA=	7.9	9.5	111.6	135.8	59.2	39.9	1260.4	27.8	108.9	86.6	
VEL=	.5	.8	2.4	3.3	3.1	3.6	6.2	3.0	2.7	1.7	
DEPTH=	.2	.3	1.7	2.7	2.5	3.1	7.1	2.3	2.0	1.0	

KS/4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 1.035									
1.035	11.03	1352.93	.00	.00	1353.65	.72	.96	.06	1350.80
9400.0	1059.6	7955.9	384.6	284.3	1102.8	116.6	1540.5	359.2	1348.80
3.69	3.73	7.21	3.30	.035	.035	.035	.000	1341.90	9686.18
.002658	440.	475.	460.	3	0	0	.00	460.77	10146.95

FLOW DISTRIBUTION FOR SECNO= 1.03 CWSEL= 1352.93

STA=	9686.	9723.	9776.	9795.	9823.	9832.	9841.	10022.	10046.	10059.	10100.	10147.
PER Q=	1.2	2.5	.3	3.3	2.5	1.5	84.6	3.3	.3	.3	.1	
AREA=	44.8	81.2	14.8	73.7	39.9	30.0	1102.8	70.4	14.1	19.7	12.5	
VEL=	2.5	2.9	1.9	4.2	5.9	4.8	7.2	4.5	2.3	1.3	.9	
DEPTH=	1.2	1.5	.8	2.6	4.4	3.3	6.1	2.9	1.1	.5	.3	

*SECNO 1.121									
1.121	10.56	1354.16	.00	.00	1354.96	.80	1.29	.02	1355.00
9400.0	.0	9396.0	4.0	.0	1310.2	4.9	1555.2	362.8	1353.60
3.71	.00	7.17	.82	.000	.040	.040	.000	1343.60	9871.67
.003028	480.	454.	440.	2	0	0	.00	235.28	10106.95

FLOW DISTRIBUTION FOR SECNO= 1.12 CWSEL= 1354.16

STA=	9872.	10069.	10082.	10107.
PER Q=	100.0	.0	.0	
AREA=	1310.2	4.1	.8	
VEL=	7.2	.9	.2	
DEPTH=	6.6	.3	.0	

*SECNO 1.204

3265 DIVIDED FLOW

3280 CROSS SECTION 1.20 EXTENDED .02 FEET

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1CT14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1.204	11.12	1355.42	1355.42	.00	1357.51	2.09	2.02	.39	1355.60
9400.0	.0	8391.4	1008.6	.0	689.1	214.7	1566.4	365.1	1352.50
3.72	.03	12.18	4.70	.040	.040	.040	.000	1344.30	9930.00
.007829	430.	438.	450.	2	9	0	.00	226.07	10173.36

FLOW DISTRIBUTION FOR SECNO= 1.20 CWSEL= 1355.42

STA=	9930.	10043.	10057.	10072.	10098.	10165.	10173.
PER Q=	89.3	1.9	1.2	2.5	5.0	.1	
AREA=	689.1	31.8	25.1	47.4	105.3	5.1	
VEL=	12.2	5.7	4.6	4.9	4.4	2.4	
DEPTH=	7.4	2.3	1.7	1.8	1.6	.6	

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.29

1.315	10.53	1359.33	.00	.00	1359.72	.39	2.04	.17	1359.70
9100.0	.0	6944.0	2156.0	.0	1301.1	568.6	1589.5	369.7	1359.00
3.76	.00	5.34	3.79	.000	.040	.040	.000	1348.80	9904.63
.001396	720.	734.	700.	3	0	0	.00	332.04	10236.67

FLOW DISTRIBUTION FOR SECNO= 1.32 CWSEL= 1359.33

STA=	9905.	10074.	10085.	10091.	10130.	10150.	10170.	10230.	10237.
PER Q=	76.3	.1	.2	1.0	3.4	8.4	10.5	.1	
AREA=	1301.1	10.3	8.6	52.0	86.7	146.7	260.0	4.4	
VEL=	5.3	1.3	1.8	1.7	3.6	5.2	3.7	1.0	
DEPTH=	7.7	.9	1.4	1.3	4.3	7.3	4.3	.7	

*SECNO 1.420
WATER EL=X5 CARD= 1361.000

3265 DIVIDED FLOW

1.420	7.00	1361.00	.00	.00	1361.67	.67	.59	.08	1358.00
8400.0	4308.5	2457.7	1633.8	792.6	259.8	517.5	1605.4	375.8	1358.00
3.78	5.44	9.46	3.16	.020	.020	.020	.000	1354.00	9555.00
.001550	380.	407.	420.	0	0	0	.00	970.00	10785.00

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.42 CWSEL= 1361.00

STA=	9555.	9745.	9760.	9790.	9810.	9930.	9970.	10010.	10060.	10195.	10315.	10420.	10785.
PER Q=	8.6	5.2	14.6	3.2	13.3	6.4	29.3	5.5	4.7	4.2	3.7	1.4	
AREA=	192.5	60.0	150.0	50.1	240.0	100.0	259.8	100.0	135.0	120.0	105.0	57.5	
VEL=	3.7	7.3	8.2	5.3	4.6	5.4	9.5	4.6	2.9	2.9	2.9	2.0	
DEPTH=	1.0	4.0	5.0	2.5	2.0	2.5	6.5	2.0	1.0	1.0	1.0	.2	

K/714PRINT

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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH         FLOODWAY        J.MISCHLER

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3.                                                          1282.48

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15.                 -1.
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K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

CCHV= .100 CEHV= .300
*SECNO 17.505

3470 ENCROACHMENT STATIONS= .0 10205.0 TYPE= 1 TARGET= 10205.000

17.505	13.58	1282.48	.00	1281.51	1284.24	1.76	.00	.00	1278.90
15400.0	325.5	14080.8	993.7	71.5	1278.5	183.6	.0	.0	1278.90
.00	4.55	11.01	5.41	.030	.030	.030	.000	1268.90	9868.34
.003419	30.	58.	85.	0	0	0	.00	304.62	10172.96

*SECNO 17.588

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.78

3470 ENCROACHMENT STATIONS= 9855.2 10193.0 TYPE= 1 TARGET= 337.760

17.588	14.16	1284.66	.00	1284.68	1285.14	.48	.77	.13	1279.90
15400.0	1459.1	13940.9	.0	462.7	2428.3	.0	22.2	3.2	100000.00
.02	3.15	5.74	.00	.040	.040	.000	.000	1270.50	9855.24
.001076	410.	438.	475.	2	0	0	.00	337.76	10193.00

*SECNO 17.662

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

3470 ENCROACHMENT STATIONS= 9900.0 10150.0 TYPE= 1 TARGET= 250.000

17.662	13.36	1284.96	.00	1284.89	1285.88	.92	.61	.13	1276.40
15400.0	2240.2	13026.1	133.8	325.0	1658.0	44.1	44.1	5.8	1281.60
.04	6.89	7.86	3.03	.040	.040	.040	.000	1271.60	9900.00
.002504	380.	391.	400.	2	0	0	.00	250.00	10150.00

*SECNO 17.783
2800 NAT Q1= 1940.19 WSELK= 1285.80 ENC Q1= 2179.27 WSEL= 1286.80 RATIO= -.1232
NAT Q1= 2392. RATIOS LOB, CH, ROB= .0263 .9109 .0628 WSEL= 1286.80

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

3470 ENCROACHMENT STATIONS= 9921.0 10064.0 TYPE= 4 TARGET= .089

17.783	11.01	1286.41	.00	1285.80	1288.67	2.26	2.39	.40	1280.50
15400.0	.0	15400.0	.0	.0	1276.5	.0	67.9	8.6	1281.10
.05	.00	12.06	.00	.000	.040	.000	.000	1275.40	9921.00
.006349	540.	639.	500.	2	0	0	.00	143.00	10064.00

*SECNO 17.932
2800 NAT Q1= 1538.30 WSELK= 1290.83 ENC Q1= 1828.22 WSEL= 1291.83 RATIO= -.1885
NAT Q1= 1865. RATIOS LOB, CH, ROB= .0129 .9803 .0068 WSEL= 1291.83

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9956.0 10066.0 TYPE= 4 TARGET= .020

17.932	13.49	1291.39	.00	1290.83	1294.76	3.37	5.76	.33	1289.70
15400.0	.0	15400.0	.0	.0	1045.7	.0	88.9	10.9	1290.20
.07	.00	14.73	.00	.000	.040	.000	.000	1277.90	9956.00
.008522	790.	787.	780.	2	0	0	.00	110.00	10066.00

CCHV= .300 CEHV= .500
*SECNO 18.042
2800 NAT Q1= 2424.90 WSELK= 1294.31 ENC Q1= 2801.79 WSEL= 1295.31 RATIO= -.1554
NAT Q1= 2802. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1295.31

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3470 ENCROACHMENT STATIONS= 9951.0 10049.0 TYPE= 4 TARGET= .000

18.042	12.13	1294.43	.00	1294.31	1298.17	3.74	3.22	.19	1357.40
15400.0	.0	15400.0	.0	.0	992.3	.0	102.5	12.3	1307.40
.08	.00	15.52	.00	.000	.025	.000	.000	1282.30	9951.60
.003895	620.	581.	550.	2	0	0	.00	96.78	10048.38

14/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	.00	75.00	4.00	1059.00	.81	1280.20	1279.90

*SECNO 18.061
BTCARD, BRIDGE STENCL= 9951.00 STENCR= 10049.00
2800 NAT Q1= 2931.81 WSELK= 1296.44 ENC Q1= 3333.03 WSEL= 1297.44 RATIO= -.1369
NAT Q1= 3333. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1297.44

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.55	1299.06	1.10	0.	15400.	1059.	1060.	1293.20	1301.60	0.

3470 ENCROACHMENT STATIONS= 9951.0 10049.0 TYPE= 4 TARGET= .000

18.061	13.59	1296.69	.00	1296.44	1299.55	2.87	1.38	.00	1358.20
15400.0	.0	15400.0	.0	.0	1133.4	.0	105.0	12.5	1308.20
.08	.00	13.59	.00	.000	.025	.000	.000	1283.10	9951.53
.002585	101.	101.	101.	3	0	0	.00	96.91	10048.45

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.96

3470 ENCROACHMENT STATIONS= 9900.0 10085.0 TYPE= 1 TARGET= 185.000

18.081	18.51	1299.61	.00	1299.54	1300.32	.71	.13	.65	1286.60
15400.0	1220.4	12608.7	1570.8	308.3	1744.9	357.5	109.3	12.9	1284.90
.08	3.96	7.23	4.39	.035	.035	.035	.000	1281.10	9900.00
.000671	80.	106.	130.	3	0	0	.00	185.00	10085.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 18.174

3470 ENCROACHMENT STATIONS= 9857.0 10125.0 TYPE= 1 TARGET= 268.000

18.174	18.48	1300.18	.00	1300.22	1300.63	.45	.28	.03	1288.70
15400.0	1800.0	13116.4	483.6	472.6	2324.1	213.1	139.9	15.4	1294.60
.11	3.81	5.64	2.27	.035	.035	.035	.000	1281.70	9857.03
.000486	500.	491.	490.	2	0	0	.00	267.97	10125.00

*SECNO 18.269

3470 ENCROACHMENT STATIONS= 9882.2 10110.0 TYPE= 1 TARGET= 227.800

18.269	16.49	1300.29	.00	1300.17	1301.03	.74	.32	.09	1288.40
15400.0	2281.1	12415.6	703.3	452.7	1691.4	204.9	170.7	18.3	1292.40
.13	5.04	7.34	3.43	.035	.035	.035	.000	1283.80	9882.20
.000870	500.	502.	500.	2	0	0	.00	227.80	10110.00

*SECNO 18.362

3470 ENCROACHMENT STATIONS= 9895.6 10107.8 TYPE= 1 TARGET= 212.200

18.362	15.34	1300.64	.00	1300.54	1301.60	.95	.50	.06	1290.00
15400.0	1169.6	13188.7	1041.7	244.9	1597.0	244.1	195.8	20.8	1290.60
.15	4.78	8.26	4.27	.035	.035	.035	.000	1285.30	9895.60
.001187	490.	491.	510.	1	0	0	.00	212.20	10107.80

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9885.0 10140.0 TYPE= 1 TARGET= 255.000

18.445	17.86	1305.16	1305.16	1305.39	1307.61	2.45	.96	.45	1290.00
15400.0	5161.8	3904.4	6333.8	545.8	214.7	612.6	213.8	23.2	1290.00
.16	9.46	18.19	10.34	.035	.035	.035	.000	1287.30	9886.69
.004874	470.	440.	460.	20	8	0	.00	253.31	10140.00

1474PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456
BTCARD, BRIDGE STENCL= 9885.00 STENCR= 10140.00

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.16	1308.91	1.29	15061.	350.	33.	33.	1294.20	1299.50	255.

3470 ENCROACHMENT STATIONS= 9885.0 10140.0 TYPE= 1 TARGET= 255.000

18.456	20.48	1308.18	.00	1307.31	1309.20	1.02	1.58	.00	1290.40
15400.0	5652.3	2922.6	6825.1	825.5	248.7	965.8	216.1	23.6	1290.40
.16	6.85	11.75	7.07	.035	.035	.035	.000	1287.70	9885.00
.001673	60.	60.	60.	3	0	7	.00	255.00	10140.00

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.13

3470 ENCROACHMENT STATIONS= 9881.4 10169.8 TYPE= 1 TARGET= 288.399

18.545	19.88	1309.18	.00	1308.28	1309.57	.40	.32	.06	1294.10
15400.0	1872.4	10972.6	2555.1	557.1	1952.7	782.2	244.5	26.5	1293.80
.18	3.36	5.62	3.27	.035	.035	.035	.000	1289.30	9881.40
.000367	440.	466.	480.	2	0	0	.00	288.40	10169.80

1CT4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.575

3470 ENCROACHMENT STATIONS= 9880.7 10170.8 TYPE= 1 TARGET= 290.100

18.575	19.99	1309.29	.00	1308.43	1309.64	.35	.06	.01	1291.50
15400.0	3672.1	3055.2	8672.7	912.0	535.2	1879.2	256.7	27.5	1289.70
.19	4.03	5.71	4.62	.035	.035	.035	.000	1289.30	9880.70
.000356	160.	160.	160.	2	0	0	.00	290.10	10170.80

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
BTCARD, BRIDGE STENCL= 9876.10 STENCR= 10177.20
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3108.92	1309.71	.07	15075.	340.	57.	56.	1295.40	1299.00	290.

3470 ENCROACHMENT STATIONS= 9876.1 10177.2 TYPE= 1 TARGET= 301.101

18.583	20.45	1309.85	.00	1309.50	1310.17	.32	.53	.00	1291.60
15400.0	3718.4	3008.4	8673.2	957.8	548.1	1963.0	259.8	27.8	1289.80
.20	3.88	5.49	4.42	.035	.035	.035	.000	1289.40	9876.10
.000319	40.	40.	40.	2	0	8	.00	301.10	10177.20

*SECNO 18.640

3470 ENCROACHMENT STATIONS= 9879.6 10134.7 TYPE= 1 TARGET= 255.101

18.640	19.58	1309.78	.00	1309.43	1310.38	.60	.13	.08	1294.60
15400.0	2398.6	9722.5	3278.9	539.3	1378.6	746.8	281.2	29.8	1293.40
.21	4.45	7.05	4.39	.035	.035	.035	.000	1290.20	9879.60
.000604	300.	301.	310.	2	0	0	.00	255.10	10134.70

*SECNO 18.734

3470 ENCROACHMENT STATIONS= 9883.2 10111.7 TYPE= 1 TARGET= 228.500

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
18.734	17.61	1310.01	.00	1309.68	1310.80	.79	.36	.06	1298.60
15400.0	1373.7	13375.5	650.8	322.1	1789.0	191.4	309.5	32.5	1300.80
.23	4.27	7.48	3.40	.035	.035	.035	.000	1292.40	9883.20
.000896	490.	496.	500.	0	0	0	.00	228.50	10111.70

*SECNO 18.832

3470 ENCROACHMENT STATIONS= 9891.8 10107.0 TYPE= 1 TARGET= 215.200

18.832	17.27	1310.47	.00	1310.19	1311.28	.81	.47	.01	1302.80
15400.0	473.4	12868.1	2058.4	148.3	1690.4	414.6	336.5	35.1	1297.10
.25	3.19	7.61	4.96	.035	.035	.035	.000	1293.20	9891.80
.000927	480.	517.	540.	2	0	0	.00	215.20	10107.00

*SECNO 18.925

3470 ENCROACHMENT STATIONS= 9887.7 10087.5 TYPE= 1 TARGET= 199.800

18.925	16.28	1310.88	.00	1310.64	1311.80	.92	.49	.03	1297.60
15400.0	1754.6	12703.7	941.7	361.2	1549.6	219.7	361.2	37.5	1300.00
.27	4.86	8.20	4.29	.035	.035	.035	.000	1294.60	9887.70
.001068	480.	491.	500.	2	0	0	.00	199.80	10087.50

*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

3470 ENCROACHMENT STATIONS= 9866.3 10038.5 TYPE= 1 TARGET= 172.200

19.018	13.51	1311.11	.00	1310.89	1312.82	1.72	.78	.24	1305.10
15400.0	530.4	14835.8	33.8	114.6	1389.8	12.5	381.7	39.5	1308.40
.28	4.63	10.67	2.71	.035	.035	.035	.000	1297.60	9866.30
.002667	460.	491.	520.	2	0	0	.00	172.20	10038.50

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9942.1 10061.9 TYPE= 1 TARGET= 119.801

19.117	14.09	1312.69	1312.69	1312.49	1316.84	4.15	2.03	.73	1302.90
15400.0	1458.7	11823.8	2117.5	154.8	663.1	205.5	396.9	41.3	1301.50
.29	9.42	17.83	10.31	.035	.035	.035	.000	1298.60	9942.10
.006160	490.	523.	560.	20	8	0	.00	119.80	10061.90

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

3470 ENCROACHMENT STATIONS= 9923.1 10081.0 TYPE= 1 TARGET= 157.900

19.210	16.89	1317.09	.00	1317.19	1318.95	1.85	1.88	.23	1312.00
15400.0	219.3	14970.3	210.4	55.2	1353.3	53.0	410.9	42.9	1312.00
.30	3.97	11.06	3.97	.035	.035	.035	.000	1300.20	9923.34
.002612	500.	491.	490.	3	0	0	.00	157.47	10080.81

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	1319.92	1324.04	4.12	1.67	1.14	1311.70
14600.0	.0	14600.0	.0	.0	895.9	.0	421.4	44.0	1311.70
.31	.00	16.30	.000	.035	.035	.000	.000	1311.70	9948.00
.008882	390.	386.	390.	20	11	0	.00	109.00	10057.00

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.96	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	1322.06	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	423.4	44.3	1311.70
.31	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

*SECNO 19.313
2800 NAT Q1= 2287.58 WSELK= 1323.31 ENC Q1= 2700.20 WSEL= 1324.31 RATIO= -.1804
NAT Q1= 2700. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1324.31

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9932.0 10112.0 TYPE= 4 TARGET= .000

19.313	11.60	1323.30	.00	1323.31	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.4	.0	425.5	44.5	1325.50
.31	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.35
.004078	75.	74.	75.	4	0	0	.00	159.64	10103.99

14/14PRINT

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


CCHV=     .100 CEHV=     .300
*SECNO 19.418
 2800 NAT Q1=    2296.67  WSELK=    1325.59  ENC Q1=    2729.66  WSEL=    1326.59  RATIO=   -.1885
 NAT Q1=    2731.  RATIOS LOB, CH, ROB=    .0000   .9994   .0006  WSEL=    1326.59

3470 ENCROACHMENT STATIONS=     9948.0   10120.0  TYPE=      4  TARGET=         .001
    19.418      12.59   1325.59       .00   1325.59   1327.43      1.83      2.25       .00   1328.00
  14600.0         .0   14600.0         .0       .0    1343.4         .0    442.5      46.5   1326.10
       .33        .00     10.87        .00      .000      .035       .000      .000   1313.00   9955.11
   .004041       570.      554.       530.         3         0          0       .00    162.69  10117.80


*SECNO 19.560
 2800 NAT Q1=    2508.10  WSELK=    1328.21  ENC Q1=    2890.11  WSEL=    1329.21  RATIO=   -.1523
 NAT Q1=    2890.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1329.21

3470 ENCROACHMENT STATIONS=     9929.0   10065.0  TYPE=      4  TARGET=         .000
    19.560      12.61   1328.21       .00   1328.21   1330.15      1.93      2.69       .03   1329.70
  14600.0         .0   14600.0         .0       .0    1308.0         .0    464.7      49.0   1330.60
       .35        .00     11.16        .00      .000      .035       .000      .000   1315.60   9931.37
   .003382       730.      729.       720.         2         0          0       .00    129.63  10060.99


CCHV=     .300 CEHV=     .500
*SECNO 19.625
 2800 NAT Q1=    3892.33  WSELK=    1329.89  ENC Q1=    4433.23  WSEL=    1330.89  RATIO=   -.1390
 NAT Q1=    4433.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1330.89

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=         .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1332.00 ELREA=     1332.00

    19.625      12.35   1329.95       .00   1329.89   1330.87       .92       .42       .30   1317.60
    5700.0         .0    5700.0         .0       .0     741.2         .0    473.2      49.8   1317.60
       .36        .00      7.69        .00      .000      .015       .000      .000   1317.60   9965.00
   .000271       580.      364.        70.         3         0          0       .00     60.00  10025.00
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14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	60.00	2.00	564.00	.00	1318.60	1317.60

*SECNO 19.691
2800 NAT Q1= 4235.58 WSELK= 1331.53 ENC Q1= 4792.54 WSEL= 1332.53 RATIO= -.1315
NAT Q1= 4793. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1332.53
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.43	1331.10	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3470 ENCROACHMENT STATIONS= 9965.0 10025.0 TYPE= 4 TARGET= .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	13.00	1331.60	.00	1331.53	1332.43	.83	1.56	.00	1318.60
5700.0	.0	5700.0	.0	.0	780.3	.0	479.3	50.3	1318.60
.37	.00	7.30	.00	.000	.015	.000	.000	1318.60	9965.00
.000231	330.	350.	430.	2	0	0	.00	60.00	10025.00

*SECNO 19.742

3470 ENCROACHMENT STATIONS= 9953.0 10038.0 TYPE= 1 TARGET= 85.000

19.742	12.93	1332.03	.00	1331.99	1332.57	.54	.05	.09	100000.00
5700.0	.0	5700.0	.0	.0	969.0	.0	484.7	50.7	100000.00
.38	.00	5.88	.00	.000	.015	.000	.000	1319.10	9953.00
.000167	80.	269.	470.	2	0	0	.00	85.00	10038.00

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

3470 ENCROACHMENT STATIONS= 9957.0 10043.0 TYPE= 1 TARGET= 86.000

19.847	13.34	1332.14	.00	1332.14	1332.81	.67	.20	.04	100000.00
5700.0	.0	5700.0	.0	.0	868.5	.0	496.4	51.8	100000.00
.41	.00	6.56	.00	.000	.035	.000	.000	1318.80	9957.00
.001291	570.	554.	520.	0	0	0	.00	86.00	10043.00

1C714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .37

3470 ENCROACHMENT STATIONS= 9958.0 10031.0 TYPE= 1 TARGET= 73.000

19.960	7.83	1332.43	.00	1332.37	1335.03	2.60	1.64	.58	1330.00
5700.0	.0	5700.0	.0	.0	440.5	.0	505.4	52.9	100000.00
.42	.00	12.94	.00	.000	.035	.000	.000	1324.60	9958.00
.009425	640.	597.	560.	2	0	0	.00	73.00	10031.00

CCHV= .300 CEHV= .500
*SECNO 19.974

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

3470 ENCROACHMENT STATIONS= 9969.0 10020.0 TYPE= 1 TARGET= 51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1336.00 ELREA= 1336.00

19.974	9.87	1333.67	.00	1333.31	1335.66	1.99	.45	.18	1323.80
5700.0	.0	5700.0	.0	.0	503.0	.0	506.2	53.0	100000.00
.42	.00	11.33	.00	.000	.035	.000	.000	1323.80	9969.00
.004262	105.	74.	65.	3	0	0	.00	51.00	10020.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	51.00	3.00	480.00	.00	1324.10	1323.80

*SECNO 19.9B6
BTCARD, BRIDGE STENCL= 9969.00 STENCR= 10020.00

3301 HV CHANGED MORE THAN HVINS

14/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1337.08	1336.16	.79	0.	5700.	480.	480.	1334.10	1337.90	0.

3470 ENCROACHMENT STATIONS= 9969.0 10020.0 TYPE= 1 TARGET= 51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.92	1335.72	.00	1335.25	1337.08	1.37	1.42	.00	1323.80
5700.0	.0	5700.0	.0	.0	607.9	.0	507.0	53.1	100000.00
.42	.00	9.38	.00	.000	.035	.000	.000	1323.80	9969.00
.002370	61.	61.	61.	3	0	0	.00	51.00	10020.00

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 100000.00

20.049	11.10	1338.20	1338.20	1338.35	1341.96	3.76	1.48	1.20	100000.00
5700.0	.0	5700.0	.0	.0	366.4	.0	510.7	53.4	100000.00
.43	.00	15.56	.00	.000	.035	.000	.000	1327.10	9975.00
.011186	305.	333.	345.	20	11	0	.00	49.93	10024.93

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.73

3470 ENCROACHMENT STATIONS= 9972.0 10029.0 TYPE= 1 TARGET= 57.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.48	1343.38	.00	1343.48	1345.17	1.79	3.01	.20	100000.00
5700.0	.0	5671.1	28.9	.0	526.6	9.6	515.9	54.1	1340.80
.44	.00	10.77	3.02	.000	.035	.040	.000	1330.90	9972.00
.003733	490.	502.	500.	2	0	0	.00	57.00	10029.00

*SECNO 20.242

3470 ENCROACHMENT STATIONS= 9964.0 10035.0 TYPE= 1 TARGET= 71.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.21	1345.51	.00	1345.49	1347.16	1.65	1.98	.01	100000.00
5700.0	.0	5645.3	54.7	.0	545.7	15.7	522.4	54.8	1342.80
.46	.00	10.35	3.49	.000	.035	.040	.000	1333.30	9964.00
.003905	470.	517.	560.	3	0	0	.00	71.00	10035.00

*SECNO 20.335

3470 ENCROACHMENT STATIONS= 9963.0 10036.0 TYPE= 1 TARGET= 73.000

20.335	10.24	1347.54	.00	1347.44	1348.79	1.25	1.59	.04	100000.00
5700.0	.0	5672.0	28.0	.0	630.1	10.2	529.2	55.6	1344.00
.47	.00	9.00	2.76	.000	.035	.040	.000	1337.30	9963.00
.002739	510.	491.	470.	2	0	0	.00	73.00	10036.00

CCHV= .300 CEHV= .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1351.50 ELREA= 1351.50

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
20.347	10.22	1347.42	.00	1347.24	1349.28	1.86	.18	.30	1337.20
5700.0	.0	5700.0	.0	.0	521.2	.0	530.0	55.7	1337.20
.47	.00	10.94	.00	.000	.035	.000	.000	1337.20	9970.00
.002991	1.	63.	150.	2	0	0	.00	51.00	10021.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1349.79	1349.73	.68	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.98	1348.18	.00	1347.97	1349.79	1.61	.52	.00	1337.20
5700.0	.0	5700.0	.0	.0	560.2	.0	531.3	55.8	1337.20
.48	.00	10.17	.00	.000	.035	.000	.000	1337.20	9970.00
.002352	100.	100.	100.	3	0	0	.00	51.00	10021.00

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9958.0 10072.0 TYPE= 1 TARGET= 114.000

20.423	11.71	1349.71	.00	1349.57	1350.61	.91	.61	.21	1345.00
5700.0	107.1	5250.9	342.0	39.5	665.4	90.5	535.9	56.4	1344.30
.49	2.71	7.89	3.78	.040	.035	.040	.000	1338.00	9958.20
.001788	415.	301.	205.	3	0	0	.00	113.80	10072.00

*SECNO 20.430

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.97	1349.27	.00	1349.13	1351.22	1.95	.09	.52	1339.30
5700.0	.0	5700.0	.0	.0	508.8	.0	536.5	56.5	1339.30
.49	.00	11.20	.00	.000	.035	.000	.000	1339.30	9985.00
.003242	1.	37.	65.	2	0	0	.00	51.00	10036.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.77 BRIDGE VELOCITY= 12.54 CALCULATED CHANNEL AREA= 455.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.64	1351.71	.75	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.72	1350.02	.00	1349.92	1351.71	1.69	.49	.00	1339.30
5700.0	.0	5700.0	.0	.0	546.8	.0	537.3	56.6	1339.30
.49	.00	10.43	.00	.000	.035	.000	.000	1339.30	9985.00
.002550	70.	70.	70.	0	0	0	.00	51.00	10036.00

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9930.0 10069.0 TYPE= 1 TARGET= 139.000

20.529	9.24	1352.24	.00	1352.25	1353.01	.77	1.02	.28	1350.20
5700.0	79.8	5564.0	56.2	32.8	783.6	24.7	544.5	57.5	1350.40
.51	2.44	7.10	2.28	.040	.035	.040	.000	1343.00	9930.00
.002052	545.	449.	375.	3	0	0	.00	139.00	10069.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 20.628

3470 ENCROACHMENT STATIONS= 9935.0 10065.0 TYPE= 1 TARGET= 130.000

20.628	10.04	1353.34	.00	1353.31	1353.79	.45	.75	.03	100000.00
5700.0	.0	5700.0	.0	.0	1059.1	.0	555.9	59.2	100000.00
.54	.00	5.38	.00	.000	.035	.000	.000	1343.30	9935.00
.001054	530.	523.	520.	2	0	0	.00	130.00	10065.00

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9962.0 10026.0 TYPE= 1 TARGET= 64.000

20.725	8.74	1355.94	1355.94	1356.04	1359.12	3.18	1.26	.82	100000.00
5700.0	.0	5700.0	.0	.0	398.2	.0	564.5	60.3	100000.00
.55	.00	14.31	.00	.000	.035	.000	.000	1347.20	9962.00
.011046	510.	512.	520.	20	15	0	.00	64.00	10026.00

CCHV= .300 CEHV= .500
*SECNO 20.737
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1363.00 ELREA= 1363.00

20.737	7.30	1358.20	1358.20	1358.17	1361.84	3.64	.80	.23	1350.90
5700.0	.0	5700.0	.0	.0	372.1	.0	565.2	60.4	1350.90
.55	.00	15.32	.00	.000	.035	.000	.000	1350.90	9968.00
.009201	80.	80.	80.	20	11	0	.00	51.00	10019.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1356.93 , NOT 1358.20 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1351.00	1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	1360.60	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	565.9	60.5	1351.00
.55	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

*SECNO 20.819

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	1362.37	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.7	.0	569.8	61.0	1356.50
.56	.00	12.45	.00	.000	.035	.000	.000	1356.50	9965.00
.008131	375.	365.	345.	3	0	0	.00	78.00	10043.00

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

20.841	6.98	1364.38	.00	1364.38	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	571.2	61.2	1357.40
.56	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3470 ENCROACHMENT STATIONS= 9904.0 10060.0 TYPE= 1 TARGET= 156.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.64	1365.94	.00	1365.98	1366.67	.72	.29	.29	1365.30
5700.0	26.8	5673.2	.0	22.9	828.9	.0	572.8	61.5	100000.00
.56	1.17	6.84	.00	.040	.035	.000	.000	1356.30	9904.00
.002004	90.	100.	110.	3	0	0	.00	156.00	10060.00

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 20.942

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS= 9860.0 10110.0 TYPE= 1 TARGET= 250.000

20.942	7.63	1367.23	.00	1367.29	1367.96	.74	1.29	.00	100000.00
5700.0	.0	4745.2	954.8	.0	657.8	192.3	581.4	63.6	1366.50
.58	.00	7.21	4.97	.000	.035	.035	.000	1359.60	9860.00
.004787	530.	433.	490.	2	0	0	.00	250.00	10110.00

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9810.0 10060.0 TYPE= 1 TARGET= 250.000

21.036	7.98	1371.48	1371.48	1371.95	1373.10	1.62	2.89	.26	1370.70
5700.0	112.5	5545.8	41.7	52.9	536.0	19.5	589.7	66.4	1370.40
.60	2.13	10.35	2.14	.040	.035	.040	.000	1363.50	9810.00
.007272	490.	496.	490.	4	8	0	.00	250.00	10060.00

*SECNO 21.127

3470 ENCROACHMENT STATIONS= 9900.0 10060.0 TYPE= 1 TARGET= 160.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1374.00 ELREA= 100000.00

21.127	7.93	1374.63	1374.23	1374.75	1376.44	1.81	3.28	.06	1374.20
5700.0	130.2	5569.8	.0	53.9	510.7	.0	596.0	68.6	100000.00
.61	2.42	10.91	.00	.040	.035	.000	.000	1366.70	9900.00
.006491	400.	480.	500.	4	8	0	.00	160.00	10060.00

*SECNO 21.230

3265 DIVIDED FLOW

K/T14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9900.0 10125.0 TYPE= 1 TARGET= 225.000

21.230	8.37	1380.37	1380.37	1380.36	1381.88	1.52	3.89	.03	1379.30
5700.0	251.2	4277.1	1171.6	71.9	392.1	188.7	603.6	70.9	1380.60
.62	3.49	10.91	6.21	.040	.035	.040	.000	1372.00	9900.00
.008046	560.	544.	500.	2	8	0	.00	221.77	10125.00

*SECNO 21.363
3280 CROSS SECTION 21.36 EXTENDED .59 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.26

3470 ENCROACHMENT STATIONS= 9930.0 10130.0 TYPE= 1 TARGET= 200.000

21.363	9.48	1383.58	.00	1383.37	1384.11	.53	2.12	.10	100000.00
5700.0	.0	5684.3	15.7	.0	973.2	13.0	616.8	74.1	1382.10
.66	.00	5.84	1.21	.000	.035	.040	.000	1374.10	9939.05
.001572	740.	702.	700.	3	0	0	.00	166.44	10105.49

*SECNO 21.484

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9852.0 10077.0 TYPE= 1 TARGET= 225.000

21.484	8.59	1387.09	1387.09	1386.53	1388.54	1.45	1.90	.28	1386.90
5700.0	967.4	4674.8	57.9	169.6	452.1	25.2	628.7	76.8	1386.50
.68	5.70	10.34	2.30	.040	.035	.040	.000	1378.50	9852.00
.007569	650.	639.	520.	20	10	0	.00	215.51	10077.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 21.576

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3470 ENCROACHMENT STATIONS= 9940.0 10165.0 TYPE= 1 TARGET= 225.000

21.576	8.08	1390.18	.00	1389.24	1391.06	.88	2.46	.06	1390.00
5700.0	16.5	4724.2	959.3	13.1	587.5	214.0	636.5	79.0	1388.30
.69	1.25	8.04	4.48	.040	.035	.040	.000	1382.10	9940.00
.003827	320.	486.	480.	2	0	0	.00	225.00	10165.00

*SECNO 21.669

3280 CROSS SECTION 21.67 EXTENDED .59 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9890.0 10115.0 TYPE= 1 TARGET= 225.000

21.669	9.89	1393.89	1393.89	1393.38	1395.24	1.35	2.45	.14	1393.80
5500.0	629.5	3935.4	935.1	132.0	372.7	181.3	644.8	81.5	1392.00
.71	4.77	10.56	5.16	.040	.035	.040	.000	1384.00	9890.00
.007088	440.	491.	470.	20	9	0	.00	225.00	10115.00

*SECNO 21.742

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

3470 ENCROACHMENT STATIONS= 9940.0 10140.0 TYPE= 1 TARGET= 200.000

21.742	9.76	1396.16	.00	1395.18	1396.95	.79	1.66	.06	1394.70
5500.0	87.3	5127.9	284.8	40.6	697.0	94.6	651.6	83.4	1394.20
.72	2.15	7.36	3.01	.040	.035	.040	.000	1386.40	9940.00
.002841	430.	385.	390.	2	0	0	.00	200.00	10140.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 21.840

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 9900.0 10100.0 TYPE= 1 TARGET= 200.000

21.840	6.82	1397.92	.00	1398.04	1399.09	1.17	2.02	.11	1396.20
5500.0	625.7	4701.1	173.2	119.2	511.9	54.7	660.3	85.6	1397.00
.74	5.25	9.18	3.17	.040	.035	.040	.000	1391.10	9900.00
.005989	430.	517.	430.	2	0	0	.00	200.00	10100.00

*SECNO 21.895

3470 ENCROACHMENT STATIONS= 9830.0 10080.0 TYPE= 1 TARGET= 250.000

21.895	7.82	1399.72	.00	1399.67	1401.04	1.32	1.90	.05	1398.00
5500.0	1891.4	3424.0	184.5	333.8	314.5	54.1	665.1	87.1	1397.70
.75	5.67	10.89	3.41	.040	.035	.040	.000	1391.90	9834.63
.006875	330.	290.	220.	3	0	0	.00	245.37	10080.00

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.29

3470 ENCROACHMENT STATIONS= 9650.0 10070.0 TYPE= 1 TARGET= 420.000

21.933	4.68	1401.48	.00	1400.86	1401.69	.20	.53	.11	1398.00
5500.0	2120.4	3379.6	.0	708.6	857.3	.0	670.5	88.7	100000.00
.77	2.99	3.94	.00	.040	.035	.000	.000	1396.80	9650.00
.001314	210.	210.	210.	2	0	0	.00	420.00	10070.00

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

3470 ENCROACHMENT STATIONS= 9630.0 10051.0 TYPE= 1 TARGET= 421.000

21.953	7.20	1401.20	.00	1401.06	1402.09	.89	.20	.21	1400.20
5500.0	2410.7	2933.1	156.2	454.9	321.8	35.3	672.6	89.3	1398.30
.77	5.30	9.11	4.43	.045	.045	.045	.000	1394.00	9630.00
.008342	75.	74.	75.	3	0	0	.00	310.27	10051.00

*SECNO 22.065

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3470 ENCROACHMENT STATIONS= 9620.0 10030.0 TYPE= 1 TARGET= 410.000

22.065	8.68	1404.48	.00	1404.08	1404.84	.36	2.69	.05	1404.10
5500.0	3697.1	1792.4	10.5	839.8	320.8	4.9	683.6	93.1	1402.00
.80	4.40	5.59	2.16	.045	.045	.045	.000	1395.80	9620.00
.003732	430.	591.	630.	3	0	0	.00	396.88	10030.00

*SECNO 22.165

3265 DIVIDED FLOW

3280 CROSS SECTION 22.17 EXTENDED .36 FEET

3470 ENCROACHMENT STATIONS= 9620.0 10020.0 TYPE= 1 TARGET= 400.000

22.165	11.06	1406.06	.00	1405.25	1406.42	.36	1.58	.00	1400.90
5500.0	3632.3	1859.8	8.0	953.4	294.5	4.6	698.3	97.8	1403.70
.83	3.81	6.31	1.73	.045	.045	.045	.000	1395.00	9620.00
.002451	530.	528.	530.	3	0	0	.00	381.09	10020.00

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 9650.0 10027.0 TYPE= 1 TARGET= 377.000

22.273	8.21	1407.61	.00	1406.66	1408.32	.72	1.80	.11	1404.10
5500.0	1439.3	4060.7	.0	336.1	542.6	.0	710.8	101.6	100000.00
.85	4.28	7.48	.00	.045	.045	.000	.000	1399.40	9650.00
.005127	470.	570.	580.	2	0	0	.00	292.44	10027.00

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9860.0 10040.0 TYPE= 1 TARGET= 180.000

22.410	10.09	1414.09	1414.09	1414.22	1416.01	1.92	4.99	.36	1410.70
5500.0	717.5	4672.2	110.3	142.7	393.2	23.9	722.8	105.4	1411.30
.87	5.03	11.88	4.63	.045	.045	.045	.000	1404.00	9860.00
.009664	750.	723.	630.	5	11	0	.00	159.26	10040.00

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.12

3470 ENCROACHMENT STATIONS= 9890.0 10050.0 TYPE= 1 TARGET= 160.000

22.483	11.24	1416.74	.00	1416.46	1417.04	.30	.87	.16	1411.10
5500.0	505.1	4994.9	.0	194.8	1098.2	.0	731.0	106.8	100000.00
.89	2.59	4.55	.00	.045	.045	.000	.000	1405.50	9890.00
.000990	380.	385.	390.	3	0	0	.00	160.00	10050.00

14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.578

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .56

3470 ENCROACHMENT STATIONS= 9968.0 10064.0 TYPE= 1 TARGET= 96.000

22.578	10.52	1417.22	.00	1416.34	1418.01	.79	.82	.15	1416.60
5500.0	.0	5500.0	.0	.0	772.8	.0	743.0	108.3	100000.00
.91	.00	7.12	.00	.000	.045	.000	.000	1406.70	9968.00
.003142	540.	502.	490.	3	0	0	.00	96.00	10064.00

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.68

3470 ENCROACHMENT STATIONS= 9830.0 10028.0 TYPE= 1 TARGET= 198.000

22.675	9.02	1418.72	.00	1418.01	1418.96	.24	.89	.05	100000.00
5500.0	.0	5500.0	.0	.0	1407.4	.0	755.8	110.1	100000.00
.95	.00	3.91	.00	.000	.045	.000	.000	1409.70	9830.00
.001107	570.	512.	480.	2	0	0	.00	198.00	10028.00

*SECNO 22.794

3470 ENCROACHMENT STATIONS= 9977.0 10160.0 TYPE= 1 TARGET= 183.000

22.794	8.80	1419.50	.00	1418.55	1419.84	.34	.85	.03	1417.80
5500.0	9.5	5490.5	.0	6.8	1168.8	.0	774.4	112.8	100000.00
.99	1.38	4.70	.00	.045	.045	.000	.000	1410.70	9977.00
.001709	460.	628.	500.	2	0	0	.00	183.00	10160.00

*SECNO 22.880

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

3470 ENCROACHMENT STATIONS= 9951.0 10120.0 TYPE= 1 TARGET= 169.000

22.880	7.53	1420.53	.00	1420.05	1421.31	.78	1.34	.13	100000.00
5500.0	.0	5500.0	.0	.0	775.9	.0	784.6	114.6	100000.00
1.01	.00	7.09	.00	.000	.045	.000	.000	1413.00	9951.00
.006285	440.	454.	480.	2	0	0	.00	169.00	10120.00

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.990

3470 ENCROACHMENT STATIONS= 9890.0 10026.0 TYPE= 1 TARGET= 136.000

22.990	6.73	1424.63	.00	1423.63	1425.77	1.14	4.35	.11	100000.00
5500.0	.0	5500.0	.0	.0	642.8	.0	794.0	116.7	100000.00
1.02	.00	8.56	.00	.000	.045	.000	.000	1417.90	9890.00
.009071	480.	581.	530.	2	0	0	.00	136.00	10026.00

*SECNO 23.097

3470 ENCROACHMENT STATIONS= 9958.0 10090.0 TYPE= 1 TARGET= 132.000

23.097	5.50	1430.60	.00	1429.89	1432.09	1.50	6.22	.11	100000.00
5500.0	.0	5500.0	.0	.0	560.5	.0	801.8	118.4	100000.00
1.04	.00	9.81	.00	.000	.045	.000	.000	1425.10	9958.00
.013626	640.	565.	490.	3	0	0	.00	132.00	10090.00

*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.05

23.168	4.42	1433.32	.00	1433.05	1433.46	.14	1.23	.14	1429.50
5500.0	814.2	4351.3	334.5	359.3	1361.4	171.0	812.1	121.5	1430.30
1.07	2.27	3.20	1.96	.045	.045	.045	.000	1428.90	9592.72
.001467	330.	375.	300.	3	0	0	.00	628.93	10221.65

*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

23.253	9.31	1434.51	1434.51	1434.53	1437.36	2.85	1.24	.81	1437.50
3400.0	.0	3400.0	.0	.0	250.8	.0	823.4	125.1	1444.20
1.08	.00	13.56	.00	.000	.040	.000	.000	1425.20	9978.49
.015114	470.	459.	450.	20	17	0	.00	44.65	10023.14

ICT4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.334	7.81	1440.41	.00	1440.39	1441.84	1.43	4.33	.14	1443.80
3400.0	.0	3400.0	.0	.0	354.7	.0	826.3	125.6	1449.80
1.10	.00	9.59	.00	.000	.040	.000	.000	1432.60	9969.03
.007580	400.	417.	420.	2	0	0	.00	66.98	10036.01

*SECNO 23.416

23.416	7.32	1443.82	.00	1443.82	1445.60	1.77	3.66	.10	1447.80
3400.0	.0	3400.0	.0	.0	318.0	.0	829.6	126.2	1450.20
1.11	.00	10.69	.00	.000	.040	.000	.000	1436.50	9980.94
.009462	400.	433.	430.	3	0	0	.00	59.12	10040.06

*SECNO 23.514

23.514	8.51	1448.11	.00	1448.11	1449.46	1.35	3.82	.04	1451.40
3400.0	.0	3400.0	.0	.0	364.9	.0	833.7	126.9	1451.10
1.12	.00	9.32	.00	.000	.040	.000	.000	1439.60	9977.54
.005933	560.	517.	470.	2	0	0	.00	57.48	10035.01

*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

23.544	7.51	1448.91	.00	1448.91	1450.79	1.87	1.17	.16	1453.20
3400.0	.0	3400.0	.0	.0	309.4	.0	834.9	127.1	1452.90
1.13	.00	10.99	.00	.000	.040	.000	.000	1441.40	9978.90
.009548	190.	158.	150.	2	0	0	.00	54.80	10033.70

SPECIAL BRIDGE

1C714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.95

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.58	2.80	3249.	152.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	1452.64	1453.37	.74	2.58	.00	1453.80
3400.0	.0	3400.0	.0	.0	493.8	.0	835.4	127.2	1453.50
1.13	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

*SECNO 23.591
3280 CROSS SECTION 23.59 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.95	1453.15	.00	1453.15	1453.93	.78	.54	.01	1452.90
3400.0	.0	3400.0	.0	.0	478.5	.0	837.6	127.5	1453.80
1.14	.00	7.11	.00	.000	.040	.000	.000	1444.20	9968.00
.003292	100.	190.	210.	3	0	0	.00	75.49	10043.49

*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.75	1455.15	.00	1455.15	1456.48	1.33	2.39	.16	1457.60
3400.0	.0	3400.0	.0	.0	367.9	.0	842.7	128.4	1455.30
1.15	.00	9.24	.00	.000	.040	.000	.000	1446.40	9970.39
.006585	510.	528.	540.	2	0	0	.00	65.33	10035.72

*SECNO 23.815

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.815	9.31	1459.01	.00	1459.01	1460.09	1.08	3.59	.02	1458.90
4350.0	.0	4350.0	.0	.0	520.9	.0	849.4	129.5	1457.80
1.17	.00	8.35	.00	.000	.040	.000	.000	1449.70	9951.00
.004797	650.	655.	680.	3	0	0	.00	86.00	10037.00

*SECNO 23.912
3280 CROSS SECTION 23.91 EXTENDED .14 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.912	13.14	1461.04	.00	1461.04	1462.18	1.14	2.07	.02	1461.30
5300.0	.0	5300.0	.0	.0	619.1	.0	856.1	130.4	1460.90
1.19	.00	8.56	.00	.000	.040	.000	.000	1447.90	9967.41
.003558	480.	512.	510.	3	0	0	.00	75.59	10043.00

*SECNO 23.989

3301 HV CHANGED MORE THAN HVINS

1C714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.989	12.91	1462.61	.00	1462.61	1463.23	.63	1.00	.05	1465.60
5300.0	.0	5300.0	.0	.0	835.0	.0	862.9	131.3	1465.80
1.21	.00	6.35	.00	.000	.040	.000	.000	1449.70	9944.77
.001801	400.	407.	410.	2	0	0	.00	98.91	10043.68

CCHV= .300 CEHV= .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1463.70 ELREA= 1463.70

24.086	9.84	1463.44	.00	1463.44	1464.31	.87	.95	.12	1453.60
5300.0	.0	5300.0	.0	.0	708.4	.0	871.9	132.3	1453.60
1.23	.00	7.48	.00	.000	.040	.000	.000	1453.60	9972.00
.001924	450.	512.	560.	4	0	0	.00	72.00	10044.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	71.60	3.00	590.00	.00	1453.60	1453.60

*SECNO 24.096
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1465.39	1464.37	.08	0.	5300.	590.	590.	1462.20	1466.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1466.00 ELREA= 1466.00

24.096	11.11	1464.71	.00	1464.71	1465.39	.68	1.09	.00	1453.60
5300.0	.0	5300.0	.0	.0	800.4	.0	872.9	132.4	1453.60
1.23	.00	6.62	.00	.000	.040	.000	.000	1453.60	9972.00
.001280	56.	56.	56.	2	0	0	.00	72.00	10044.00

1471PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.106

3470 ENCROACHMENT STATIONS= 9955.0 10055.0 TYPE= 1 TARGET= 100.000

24.106	10.80	1465.00	.00	1465.21	1465.52	.51	.07	.05	1464.10
5300.0	.0	5300.0	.0	.0	922.0	.0	874.0	132.5	100000.00
1.23	.00	5.75	.00	.000	.040	.000	.000	1454.20	9955.00
.001433	80.	53.	20.	2	0	0	.00	100.00	10055.00

CCHV= .100 CEHV= .300
*SECNO 24.195

3470 ENCROACHMENT STATIONS= 9950.0 10050.0 TYPE= 1 TARGET= 100.000

24.195	12.08	1465.68	.00	1465.69	1466.01	.34	.48	.02	100000.00
5300.0	.0	5300.0	.0	.0	1134.9	.0	885.1	133.5	100000.00
1.26	.00	4.67	.00	.000	.040	.000	.000	1453.60	9950.00
.000766	470.	470.	460.	2	0	0	.00	100.00	10050.00

*SECNO 24.322

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.71

3470 ENCROACHMENT STATIONS= 9940.0 10080.0 TYPE= 1 TARGET= 140.000

24.322	14.57	1466.17	.00	1465.91	1466.31	.15	.28	.02	100000.00
5300.0	.0	5067.6	232.4	.0	1628.2	148.2	907.4	135.4	1456.80
1.32	.00	3.11	1.57	.000	.040	.050	.000	1451.60	9940.00
.000262	640.	671.	630.	2	0	0	.00	140.00	10080.00

*SECNO 24.444

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .43

3470 ENCROACHMENT STATIONS= 9927.0 10080.0 TYPE= 1 TARGET= 153.000

24.444	9.07	1466.37	.00	1465.95	1466.70	.33	.33	.06	1465.00
5300.0	.9	5299.1	.0	1.1	1142.9	.0	928.9	137.5	100000.00
1.36	.84	4.64	.00	.045	.045	.000	.000	1457.30	9927.00
.001443	640.	644.	600.	2	0	0	.00	153.00	10080.00

K/14+PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.542

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .44

3470 ENCROACHMENT STATIONS= 9950.0 10160.0 TYPE= 1 TARGET= 210.000

24.542	7.51	1467.31	.00	1466.33	1468.35	1.04	1.44	.21	100000.00
5300.0	.0	5300.0	.0	.0	647.3	.0	939.5	139.2	100000.00
1.38	.00	8.19	.00	.000	.045	.000	.000	1459.80	9950.00
.007420	470.	517.	530.	3	0	0	.00	121.98	10160.00

*SECNO 24.635

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

3470 ENCROACHMENT STATIONS= 9940.0 10060.0 TYPE= 1 TARGET= 120.000

24.635	5.26	1472.06	1471.86	1472.05	1473.84	1.79	5.27	.22	100000.00
5300.0	.0	5300.0	.0	.0	494.0	.0	946.0	140.5	100000.00
1.39	.00	10.73	.00	.000	.045	.000	.000	1466.80	9940.00
.016891	650.	491.	220.	6	14	0	.00	120.00	10060.00

*SECNO 24.738

3265 DIVIDED FLOW

3280 CROSS SECTION 24.74 EXTENDED .20 FEET

3301 HV CHANGED MORE THAN HVINS

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.96

3470 ENCROACHMENT STATIONS= 9936.0 10200.0 TYPE= 1 TARGET= 264.000

24.738	5.80	1477.80	.00	1476.89	1478.28	.48	4.30	.13	100000.00
5200.0	.0	2288.8	2911.2	.0	409.9	524.7	955.4	142.8	1480.90
1.42	.00	5.58	5.55	.000	.045	.045	.000	1472.00	9936.00
.004242	350.	544.	630.	3	0	0	.00	225.20	10200.00

*SECNO 24.838

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .55

3470 ENCROACHMENT STATIONS= 9968.0 10350.0 TYPE= 1 TARGET= 382.000

24.838	6.28	1480.98	.00	1480.33	1481.73	.75	3.37	.08	100000.00
5200.0	.0	1515.0	3685.0	.0	170.8	616.1	964.8	146.0	1483.50
1.44	.00	8.87	5.98	.000	.045	.045	.000	1474.70	9968.00
.013920	470.	528.	450.	3	0	0	.00	370.28	10350.00

*SECNO 24.943

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.35

3470 ENCROACHMENT STATIONS= 9860.0 10300.0 TYPE= 1 TARGET= 440.000

24.943	6.66	1484.36	.00	1483.44	1484.58	.22	2.79	.05	1481.80
5200.0	1224.1	735.7	3240.2	361.1	162.1	887.6	979.0	151.2	1484.80
1.48	3.39	4.54	3.65	.045	.045	.045	.000	1477.70	9860.00
.002529	530.	554.	570.	1	0	0	.00	433.65	10300.00

14/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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*SECNO 25.048

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9850.0   10250.0  TYPE=      1  TARGET=      400.000
    25.048      3.93   1487.63   1487.63   1487.27   1488.57       .94      3.07       .22   1486.60
    5200.0    1208.5     870.3    3121.2     181.3      98.5     396.4     991.9     156.2   1493.60
      1.50      6.67      8.84      7.87      .045      .045      .045      .000   1483.70   9850.00
   .022755      580.      554.      520.        20        14         0       .00    369.90  10250.00


*SECNO 25.163

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23


3470 ENCROACHMENT STATIONS=     9940.0   10175.0  TYPE=      1  TARGET=      235.000
    25.163      7.08   1493.08       .00   1492.19   1493.53       .45      4.91       .05   1491.60
    4900.0     360.3     1584.9    2954.8      89.1     264.8     573.5    1002.9     160.4   1493.10
      1.53      4.04      5.98      5.15      .045      .045      .045      .000   1486.00   9940.00
   .004072      640.      607.      580.         6         0         0       .00    234.87  10175.00


*SECNO 25.262
3280 CROSS SECTION     25.26 EXTENDED      1.05 FEET


3470 ENCROACHMENT STATIONS=     9750.0   10023.0  TYPE=      1  TARGET=      273.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1491.60 ELREA=      1510.00

    25.262     11.04   1495.04       .00   1494.01   1495.36       .32      1.82       .01   1491.60
    4900.0    3562.1    1337.9         .0     783.5     298.1         .0    1014.7     163.3 100000.00
      1.56      4.55      4.49       .00      .045      .045      .000      .000   1484.00   9750.00
   .003091      470.      523.      570.         4         0         0       .00    273.00  10023.00
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K/T4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.374

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9925.0 10023.0 TYPE= 1 TARGET= 98.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1499.30 ELREA= 100000.00

25.374	6.87	1500.17	1500.17	1499.37	1502.33	2.16	3.90	.55	1499.30
4900.0	1342.9	3557.1	.0	145.4	281.4	.0	1025.9	166.1	100000.00
1.58	9.23	12.64	.00	.045	.045	.000	.000	1493.30	9925.00
.017615	680.	591.	300.	20	23	0	.00	98.00	10023.00

*SECNO 25.434

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9970.0 10036.0 TYPE= 1 TARGET= 66.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1504.90 ELREA= 100000.00

25.434	8.37	1504.17	1504.09	1503.97	1506.91	2.75	4.41	.17	100000.00
4900.0	.0	4900.0	.0	.0	368.4	.0	1028.9	166.7	100000.00
1.58	.00	13.30	.00	.000	.035	.000	.000	1495.80	9970.00
.010572	400.	317.	190.	6	11	0	.00	66.00	10036.00

*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.36

3470 ENCROACHMENT STATIONS= 9970.0 10050.0 TYPE= 1 TARGET= 80.000

25.500	9.95	1507.65	.00	1507.74	1508.42	.77	1.31	.20	100000.00
4900.0	.0	4900.0	.0	.0	698.0	.0	1033.2	167.3	100000.00
1.60	.00	7.02	.00	.000	.035	.000	.000	1497.70	9970.00
.001894	250.	349.	420.	3	0	0	.00	80.00	10050.00

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 25.523

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

3470 ENCROACHMENT STATIONS= 9960.0 10040.0 TYPE= 1 TARGET= 80.000

25.523	12.20	1508.20	.00	1507.99	1508.63	.43	.12	.10	1498.00
4900.0	38.7	4806.1	55.2	30.6	900.8	30.6	1035.5	167.6	1498.00
1.60	1.26	5.34	1.80	.050	.035	.035	.000	1496.00	9960.00
.000589	120.	121.	120.	2	0	0	.00	80.00	10040.00

*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

25.534	5.22	1510.76	1510.76	1510.75	1513.36	2.60	.06	1.08	1515.00
4900.0	.0	4900.0	.0	.0	378.4	.0	1036.4	167.7	1515.00
1.61	.00	12.95	.00	.000	.015	.000	.000	1505.54	9963.45
.002242	58.	58.	58.	20	14	0	.00	73.10	10036.55

*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

25.551	6.67	1512.21	1510.75	1512.21	1513.80	1.58	.13	.31	1515.00
4900.0	.0	4900.0	.0	.0	485.0	.0	1037.3	167.8	1515.00
1.61	.00	10.10	.00	.000	.015	.000	.000	1505.54	9963.29
.001026	90.	90.	90.	25	5	0	.00	73.41	10036.71

*SECNO 25.557

25.557	6.53	1512.07	.00	1512.08	1514.01	1.94	.04	.18	1515.00
4900.0	.0	4900.0	.0	.0	438.7	.0	1037.6	167.9	1515.00
1.61	.00	11.17	.00	.000	.015	.000	.000	1505.54	9959.87
.001387	32.	32.	32.	2	0	0	.00	80.25	10040.13

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9949.0 10050.0 TYPE= 1 TARGET= 101.000

25.561	8.72	1514.32	.00	1514.36	1514.54	.23	.02	.51	100000.00
2900.0	.0	2900.0	.0	.0	759.6	.0	1037.9	167.9	100000.00
1.61	.00	3.82	.00	.000	.035	.000	.000	1505.60	9949.44
.000612	20.	21.	20.	3	0	0	.00	100.55	10050.00

CCHV= .100 CEHV= .300
*SECNO 25.680

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .49

3470 ENCROACHMENT STATIONS= 9950.0 10050.0 TYPE= 1 TARGET= 100.000

25.680	8.30	1514.80	.00	1514.74	1515.26	.45	.64	.07	100000.00
2700.0	.0	2700.0	.0	.0	499.5	.0	1047.0	169.4	100000.00
1.64	.00	5.41	.00	.000	.035	.000	.000	1506.50	9950.00
.002179	580.	628.	660.	2	0	0	.00	100.00	10050.00

*SECNO 25.786

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .44

3470 ENCROACHMENT STATIONS= 9982.0 10082.0 TYPE= 1 TARGET= 100.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1518.90 ELREA= 1515.80

25.786	5.65	1516.35	1516.23	1516.32	1517.71	1.36	2.18	.27	100000.00
2500.0	.0	2454.1	45.9	.0	260.1	15.6	1052.0	170.6	1515.80
1.66	.00	9.43	2.93	.000	.035	.035	.000	1510.70	9982.00
.009706	600.	560.	470.	6	14	0	.00	100.00	10082.00

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.947

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.57

3470 ENCROACHMENT STATIONS= 9959.0 10059.0 TYPE= 1 TARGET= 100.000

25.947	7.46	1521.86	.00	1521.07	1522.40	.54	4.61	.08	100000.00
2300.0	.0	2300.0	.0	.0	388.3	.0	1058.4	172.6	100000.00
1.70	.00	5.92	.00	.000	.035	.000	.000	1514.40	9959.00
.003343	870.	850.	830.	3	0	0	.00	100.00	10059.00

*SECNO 26.058

3470 ENCROACHMENT STATIONS= 9950.0 10023.0 TYPE= 1 TARGET= 73.000

26.058	7.63	1523.83	.00	1523.49	1524.65	.82	2.16	.08	1522.00
2200.0	173.5	2026.5	.0	37.7	271.4	.0	1063.1	173.7	100000.00
1.72	4.60	7.47	.00	.035	.035	.000	.000	1516.20	9950.00
.004141	540.	586.	570.	3	0	0	.00	73.00	10023.00

*SECNO 26.152

3470 ENCROACHMENT STATIONS= 9970.0 10040.0 TYPE= 1 TARGET= 70.000

26.152	5.70	1525.70	.00	1524.99	1526.20	.50	1.52	.03	100000.00
2000.0	.0	2000.0	.0	.0	351.9	.0	1066.8	174.5	100000.00
1.75	.00	5.68	.00	.000	.035	.000	.000	1520.00	9970.00
.002376	240.	496.	550.	2	0	0	.00	70.00	10040.00

*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9973.0 10060.0 TYPE= 1 TARGET= 87.000

26.265	6.08	1528.08	1528.08	1528.15	1529.38	1.30	2.54	.24	100000.00
1900.0	.0	1760.7	139.3	.0	186.6	32.1	1070.7	175.6	1526.50
1.76	.00	9.44	4.34	.000	.035	.035	.000	1522.00	9973.34
.010164	580.	597.	610.	0	8	0	.00	86.66	10060.00

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.05

3470 ENCROACHMENT STATIONS= 9967.0 10064.0 TYPE= 1 TARGET= 97.000

26.372	7.57	1531.37	.00	1531.35	1531.69	.32	2.21	.10	100000.00
1700.0	.0	1700.0	.0	.0	374.4	.0	1074.5	176.7	100000.00
1.80	.00	4.54	.00	.000	.035	.000	.000	1523.80	9967.05
.001937	600.	565.	510.	3	0	0	.00	96.95	10064.00

*SECNO 26.492

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

3470 ENCROACHMENT STATIONS= 9955.0 10045.0 TYPE= 1 TARGET= 90.000

26.492	6.49	1532.19	.00	1532.15	1532.34	.15	.64	.02	100000.00
1600.0	.0	1600.0	.0	.0	511.4	.0	1081.0	178.1	100000.00
1.85	.00	3.13	.00	.000	.035	.000	.000	1525.70	9955.00
.000602	640.	634.	610.	3	0	0	.00	90.00	10045.00

*SECNO 26.582

3470 ENCROACHMENT STATIONS= 9945.0 10025.0 TYPE= 1 TARGET= 80.000

26.582	8.33	1532.43	.00	1532.24	1532.52	.09	.17	.01	100000.00
1300.0	.0	1300.0	.0	.0	544.1	.0	1086.7	179.0	100000.00
1.91	.00	2.39	.00	.000	.030	.000	.000	1524.10	9945.00
.000221	460.	475.	480.	2	0	0	.00	80.00	10025.00

*SECNO 26.673

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

ICI 4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9970.0 10030.0 TYPE= 1 TARGET= 60.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1535.00 ELREA= 100000.00

26.673	3.14	1534.94	1534.94	1533.98	1536.17	1.23	.32	.34	100000.00
1300.0	.0	1300.0	.0	.0	146.0	.0	1090.5	179.8	100000.00
1.92	.00	8.91	.00	.000	.030	.000	.000	1531.80	9970.00
.010965	510.	480.	460.	20	18	0	.00	60.00	10030.00

*SECNO 26.784
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9981.0 10031.0 TYPE= 1 TARGET= 50.000

26.784	3.55	1546.25	1546.25	1546.18	1547.49	1.24	6.31	.00	100000.00
1100.0	.0	1100.0	.0	.0	123.1	.0	1092.3	180.5	100000.00
1.94	.00	8.94	.00	.000	.030	.000	.000	1542.70	9981.00
.010542	590.	586.	530.	13	8	0	.00	50.00	10031.00

*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 5.95

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

26.883	7.82	1547.92	.00	1547.31	1548.02	.10	.42	.11	100000.00
1000.0	.0	1000.0	.0	.0	391.3	.0	1095.4	181.1	100000.00
2.00	.00	2.56	.00	.000	.030	.000	.000	1540.10	9975.00
.000246	530.	523.	500.	3	0	0	.00	50.00	10025.00

*SECNO 26.984

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .56

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

K74PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
26.984	7.57	1548.07	.00	1547.31	1548.24	.17	.20	.02	100000.00
900.0	.0	900.0	.0	.0	273.3	.0	1099.5	181.7	100000.00
2.04	.00	3.29	.00	.000	.030	.000	.000	1540.50	9975.00
.000645	480.	533.	460.	2	0	0	.00	50.00	10025.00

*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9883.7 10013.1 TYPE= 1 TARGET= 129.399

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1565.00 ELREA= 100000.00

27.060	5.35	1559.45	1559.45	1559.46	1561.02	1.57	.66	.42	1560.80
900.0	.0	900.0	.0	.0	89.6	.0	1101.1	182.1	100000.00
2.06	.00	10.05	.00	.000	.030	.000	.000	1554.10	9983.69
.010211	270.	401.	470.	20	19	0	.00	29.41	10013.10

*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.66

3470 ENCROACHMENT STATIONS= 9881.1 10020.0 TYPE= 1 TARGET= 138.900

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1565.00 ELREA= 1565.00

27.166	6.98	1562.18	.00	1562.18	1562.35	.17	1.19	.14	1564.20
600.0	.0	600.0	.0	.0	181.6	.0	1102.9	182.5	100000.00
2.10	.00	3.30	.00	.000	.030	.000	.000	1555.20	9981.03
.000642	560.	560.	560.	3	0	0	.00	38.97	10020.00

1C714PRINT

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 27.294

3470 ENCROACHMENT STATIONS=     9972.0   10022.2  TYPE=      1  TARGET=       50.200
    27.294      6.54   1562.54       .00   1562.54   1562.59       .05       .23       .01 100000.00
     400.0        .0     400.0        .0        .0     232.9        .0    1106.1     183.2 100000.00
      2.21       .00      1.72       .00      .000      .030      .000      .000   1556.00   9972.01
   .000167      710.      676.      630.         3         0         0       .00     50.19  10022.20


CCHV=     .100 CEHV=     .300
*SECNO -19.560
START TRIB COMP
    -19.560    19.560  1328.212

3470 ENCROACHMENT STATIONS=     9921.4   10061.0  TYPE=      1  TARGET=      139.630
   -19.560     12.61   1328.21       .00   1328.21   1330.15      1.93       .00       .00   1329.70
   14600.0        .0  14600.0        .0        .0    1307.9        .0    1119.0     184.7 100000.00
      2.23       .00     11.16       .00      .000      .035      .000      .000   1315.60   9931.37
   .0033B2      730.      729.      720.         0         0         0       .00     129.62  10060.99


*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.6   10073.1  TYPE=      1  TARGET=      130.540
      .029      9.83   1329.43   1329.43   1329.35   1332.59      3.16      1.09       .37 100000.00
    9500.0        .0    9473.7      26.3        .0     662.9      19.7    1128.8     186.0   1328.20
      2.24       .00     14.29      1.34      .000      .015      .035      .000   1319.60   9942.56
   .001749      380.      430.      450.        20        15         0       .00     130.54  10073.10


*SECNO  .112

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.44
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1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9905.0 10092.0 TYPE= 1 TARGET= 187.000

.112	11.38	1332.88	.00	1332.94	1333.42	.55	.57	.26	100000.00
9500.0	.0	9500.0	.0	.0	1603.5	.0	1141.5	187.8	100000.00
2.26	.00	5.92	.00	.000	.030	.000	.000	1321.50	9905.00
.000847	430.	483.	450.	3	0	0	.00	187.00	10092.00

*SECNO .198

3470 ENCROACHMENT STATIONS= 9910.0 10110.0 TYPE= 1 TARGET= 200.000

.198	9.46	1333.26	.00	1333.31	1333.92	.66	.46	.03	100000.00
9500.0	.0	9500.0	.0	.0	1458.9	.0	1157.5	189.8	100000.00
2.28	.00	6.51	.00	.000	.030	.000	.000	1323.80	9910.00
.001257	460.	454.	420.	2	0	0	.00	200.00	10110.00

*SECNO .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9903.0 10054.0 TYPE= 1 TARGET= 151.000

.288	7.60	1333.30	1333.30	1333.31	1335.83	2.53	1.22	.56	100000.00
9500.0	.0	9500.0	.0	.0	744.7	.0	1169.5	191.7	100000.00
2.29	.00	12.76	.00	.000	.030	.000	.000	1325.70	9903.24
.007949	470.	475.	460.	4	15	0	.00	150.67	10053.90

*SECNO .398

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

3470 ENCROACHMENT STATIONS= 9912.0 10094.0 TYPE= 1 TARGET= 182.000

.398	8.47	1337.27	.00	1337.27	1338.35	1.08	2.37	.14	100000.00
9500.0	.0	9500.0	.0	.0	1139.0	.0	1182.0	193.9	100000.00
2.31	.00	8.34	.00	.000	.030	.000	.000	1328.80	9912.47
.002478	600.	581.	540.	2	0	0	.00	181.53	10094.00

K/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .482

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9904.0 10095.0 TYPE= 1 TARGET= 191.000

.482	10.44	1341.64	1341.64	1342.35	1344.13	2.49	1.48	.42	1341.10
9500.0	20.4	8687.7	791.8	12.9	660.3	156.3	1191.8	195.7	1338.00
2.32	1.58	13.16	5.07	.035	.030	.035	.000	1331.20	9904.00
.004924	440.	444.	270.	20	11	0	.00	191.00	10095.00

*SECNO .575

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

3470 ENCROACHMENT STATIONS= 9870.0 10080.0 TYPE= 1 TARGET= 210.000

.575	13.34	1344.84	.00	1343.82	1345.71	.87	1.42	.16	100000.00
9500.0	.0	9340.0	160.0	.0	1235.5	59.0	1203.7	197.9	1343.10
2.34	.00	7.56	2.71	.000	.030	.035	.000	1331.50	9870.00
.001890	460.	491.	500.	2	0	0	.00	210.00	10080.00

*SECNO .697

3470 ENCROACHMENT STATIONS= 9875.0 10035.0 TYPE= 1 TARGET= 160.000

.697	11.95	1345.95	.00	1345.06	1346.90	.95	1.17	.02	100000.00
9400.0	.0	9208.8	191.2	.0	1171.2	50.1	1222.3	200.7	1341.40
2.36	.00	7.86	3.82	.000	.030	.035	.000	1334.00	9875.00
.001739	640.	644.	640.	3	0	0	.00	160.00	10035.00

*SECNO .826

3301 HV CHANGED MORE THAN HVINS

14714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9880.0 10040.0 TYPE= 1 TARGET= 160.000

.826	9.33	1348.13	1348.13	1348.29	1350.60	2.47	2.26	.46	1345.50
9400.0	612.3	8787.7	.0	97.4	678.6	.0	1237.9	203.2	100000.00
2.38	6.28	12.95	.00	.035	.035	.000	.000	1338.80	9880.00
.008678	680.	681.	660.	20	19	0	.00	160.00	10040.00

*SECNO .945

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.89

3470 ENCROACHMENT STATIONS= 9870.0 10030.0 TYPE= 1 TARGET= 160.000

.945	12.05	1352.45	.00	1352.12	1353.37	.92	2.61	.16	100000.00
9400.0	.0	9400.0	.0	.0	1223.9	.0	1252.4	205.5	100000.00
2.40	.00	7.68	.00	.000	.035	.000	.000	1340.40	9870.00
.002420	680.	628.	600.	3	0	0	.00	160.00	10030.00

*SECNO 1.035
3280 CROSS SECTION 1.03 EXTENDED .61 FEET

3470 ENCROACHMENT STATIONS= 9870.0 10030.0 TYPE= 1 TARGET= 160.000

1.035	11.71	1353.61	.00	1352.93	1354.72	1.11	1.30	.06	100000.00
9400.0	.0	9229.2	170.8	.0	1083.6	35.3	1265.2	207.3	1348.80
2.41	.00	8.52	4.84	.000	.035	.035	.000	1341.90	9870.00
.003107	440.	475.	460.	3	0	0	.00	160.00	10030.00

*SECNO 1.121
3280 CROSS SECTION 1.12 EXTENDED .18 FEET

3470 ENCROACHMENT STATIONS= 9890.0 10050.0 TYPE= 1 TARGET= 160.000

1.121	11.58	1355.18	.00	1354.16	1355.89	.71	1.13	.04	100000.00
9400.0	.0	9400.0	.0	.0	1387.0	.0	1278.2	208.9	100000.00
2.43	.00	6.78	.00	.000	.040	.000	.000	1343.60	9890.00
.002041	480.	454.	440.	2	0	0	.00	160.00	10050.00

K714PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.204

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .53

3470 ENCROACHMENT STATIONS= 9950.0 10110.0 TYPE= 1 TARGET= 160.000

1.204	11.44	1355.74	.00	1355.42	1357.83	2.08	1.52	.41	100000.00
9400.0	.0	8620.1	779.9	.0	719.0	148.2	1289.6	210.5	1352.50
2.44	.00	11.99	5.26	.000	.040	.040	.000	1344.30	9950.00
.007164	430.	438.	450.	3	0	0	.00	160.00	10110.00

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

3470 ENCROACHMENT STATIONS= 9905.0 10060.0 TYPE= 1 TARGET= 155.000

1.315	10.99	1359.79	.00	1359.33	1360.51	.72	2.54	.14	100000.00
9100.0	.0	9100.0	.0	.0	1340.5	.0	1308.1	213.2	100000.00
2.47	.00	6.79	.00	.000	.040	.000	.000	1348.80	9905.00
.002012	720.	734.	700.	2	0	0	.00	155.00	10060.00

*SECNO 1.420
WATER EL=X5 CARD= 1361.600

3470 ENCROACHMENT STATIONS= 9800.0 10200.0 TYPE= 1 TARGET= 400.000

1.420	7.60	1361.60	.00	1361.00	1362.84	1.24	.84	.16	1358.00
8400.0	3122.1	3372.0	1905.9	464.5	283.8	354.0	1319.4	215.7	1358.00
2.49	6.72	11.88	5.38	.020	.020	.020	.000	1354.00	9800.00
.002173	380.	407.	420.	0	0	0	.00	400.00	10200.00

14FPRINT

THIS RUN EXECUTED 14OCT04 14:18:11

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	17.505	.00	.00	.00	1268.90	15400.00	1281.51	1281.51	1284.07	58.40	13.13	1255.25	2015.24
	17.505	.00	.00	.00	1268.90	15400.00	1282.48	.00	1284.24	34.19	11.01	1533.61	2633.72
*	17.588	438.00	.00	.00	1270.50	15400.00	1284.68	.00	1285.00	7.49	4.83	3519.17	5625.43
*	17.588	438.00	.00	.00	1270.50	15400.00	1284.66	.00	1285.14	10.76	5.74	2891.03	4694.99
*	17.662	391.00	.00	.00	1271.60	15400.00	1284.89	.00	1285.54	18.75	6.76	2419.84	3556.44
*	17.662	391.00	.00	.00	1271.60	15400.00	1284.96	.00	1285.88	25.04	7.86	2027.07	3077.33
*	17.783	639.00	.00	.00	1275.40	15400.00	1285.80	.00	1287.94	63.00	12.05	1360.40	1940.19
*	17.783	639.00	.00	.00	1275.40	15400.00	1286.41	.00	1288.67	63.49	12.06	1276.54	1932.76
	17.932	787.00	.00	.00	1277.90	15400.00	1290.83	1290.58	1294.59	100.22	15.59	1008.84	1538.30
	17.932	787.00	.00	.00	1277.90	15400.00	1291.39	.00	1294.76	85.22	14.73	1045.72	1668.21
*	18.042	581.00	.00	.00	1282.30	15400.00	1294.31	.00	1298.13	40.33	15.70	981.19	2424.90
*	18.042	581.00	.00	.00	1282.30	15400.00	1294.43	.00	1298.17	38.95	15.52	992.27	2467.44
	18.061	101.00	1301.60	1293.20	1283.10	15400.00	1296.44	.00	1299.43	27.59	13.88	1109.58	2931.81
	18.061	101.00	1301.60	1293.20	1283.10	15400.00	1296.69	.00	1299.55	25.85	13.59	1133.42	3029.16
*	18.081	106.00	.00	.00	1281.10	15400.00	1299.54	.00	1300.24	6.72	7.21	2442.72	5940.31
*	18.081	106.00	.00	.00	1281.10	15400.00	1299.61	.00	1300.32	6.71	7.23	2410.81	5943.73
	18.174	491.00	.00	.00	1281.70	15400.00	1300.22	.00	1300.52	3.64	4.90	3968.05	8069.49
	18.174	491.00	.00	.00	1281.70	15400.00	1300.18	.00	1300.63	4.86	5.64	3009.78	6988.68
*	18.269	502.00	.00	.00	1283.80	15400.00	1300.17	.00	1300.93	9.01	7.43	2321.43	5129.49
	18.269	502.00	.00	.00	1283.80	15400.00	1300.29	.00	1301.03	8.70	7.34	2349.00	5219.75
	18.362	491.00	.00	.00	1285.30	15400.00	1300.54	.00	1301.51	12.23	8.34	2064.64	4403.18
	18.362	491.00	.00	.00	1285.30	15400.00	1300.64	.00	1301.60	11.87	8.26	2085.95	4470.67

14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	18.445	440.00	.00	.00	1287.30	15400.00	1305.39	1305.39	1307.48	43.16	17.27	1503.06	2344.17
*	18.445	440.00	.00	.00	1287.30	15400.00	1305.16	1305.16	1307.61	48.74	18.19	1373.09	2205.94
*	18.456	60.00	1299.50	1294.20	1287.70	15400.00	1307.31	.00	1308.31	20.14	12.51	2161.38	3431.16
*	18.456	60.00	1299.50	1294.20	1287.70	15400.00	1308.18	.00	1309.20	16.73	11.75	2039.97	3765.50
*	18.545	466.00	.00	.00	1289.30	15400.00	1308.28	.00	1308.76	4.60	6.08	3034.72	7178.37
*	18.545	466.00	.00	.00	1289.30	15400.00	1309.18	.00	1309.57	3.67	5.62	3291.95	8036.51
	18.575	160.00	.00	.00	1289.30	15400.00	1308.43	.00	1308.83	4.42	6.17	3076.17	7327.74
	18.575	160.00	.00	.00	1289.30	15400.00	1309.29	.00	1309.64	3.56	5.71	3326.42	8165.64
	18.583	40.00	1299.00	1295.40	1289.40	15400.00	1309.50	.00	1309.84	3.47	5.66	3362.95	8265.62
	18.583	40.00	1299.00	1295.40	1289.40	15400.00	1309.85	.00	1310.17	3.19	5.49	3468.84	8626.55
	18.640	301.00	.00	.00	1290.20	15400.00	1309.43	.00	1310.07	6.63	7.29	2573.96	5979.80
	18.640	301.00	.00	.00	1290.20	15400.00	1309.78	.00	1310.38	6.04	7.05	2664.75	6267.51
	18.734	496.00	.00	.00	1292.40	15400.00	1309.68	.00	1310.53	9.85	7.72	2226.08	4906.54
	18.734	496.00	.00	.00	1292.40	15400.00	1310.01	.00	1310.80	8.96	7.48	2302.44	5144.44
	18.832	517.00	.00	.00	1293.20	15400.00	1310.19	.00	1311.04	10.03	7.81	2193.40	4863.49
	18.832	517.00	.00	.00	1293.20	15400.00	1310.47	.00	1311.28	9.27	7.61	2253.33	5056.70
	18.925	491.00	.00	.00	1294.60	15400.00	1310.64	.00	1311.60	11.44	8.39	2082.17	4553.27
	18.925	491.00	.00	.00	1294.60	15400.00	1310.88	.00	1311.80	10.68	8.20	2130.46	4711.81
*	19.018	491.00	.00	.00	1297.60	15400.00	1310.89	.00	1312.69	28.64	10.92	1480.40	2877.38
*	19.018	491.00	.00	.00	1297.60	15400.00	1311.11	.00	1312.82	26.67	10.67	1516.91	2982.25
*	19.117	523.00	.00	.00	1298.60	15400.00	1312.49	1312.49	1316.85	66.08	18.27	999.22	1894.44
*	19.117	523.00	.00	.00	1298.60	15400.00	1312.69	1312.69	1316.84	61.60	17.83	1023.47	1962.15
*	19.210	491.00	.00	.00	1300.20	15400.00	1317.19	.00	1319.01	25.38	10.96	1476.42	3057.00
*	19.210	491.00	.00	.00	1300.20	15400.00	1317.09	.00	1318.95	26.12	11.06	1461.48	3013.42
*	19.283	386.00	.00	.00	1311.70	14600.00	1319.92	1319.92	1324.04	88.76	16.29	896.06	1549.73
*	19.283	386.00	.00	.00	1311.70	14600.00	1319.92	1319.92	1324.04	88.82	16.30	895.86	1549.15
*	19.299	86.00	1326.50	1324.20	1311.70	14600.00	1322.06	.00	1324.65	41.12	12.94	1128.71	2276.85
*	19.299	86.00	1326.50	1324.20	1311.70	14600.00	1322.06	.00	1324.65	41.12	12.94	1128.71	2276.85
	19.313	74.00	.00	.00	1311.70	14600.00	1323.31	.00	1325.17	40.73	10.97	1330.91	2287.58
	19.313	74.00	.00	.00	1311.70	14600.00	1323.30	.00	1325.17	40.78	10.97	1330.40	2286.33
	19.418	554.00	.00	.00	1313.00	14600.00	1325.59	.00	1327.43	40.41	10.87	1343.38	2296.67
	19.418	554.00	.00	.00	1313.00	14600.00	1325.59	.00	1327.43	40.41	10.87	1343.36	2296.63
	19.560	729.00	.00	.00	1315.60	14600.00	1328.21	.00	1330.15	33.89	11.17	1307.11	2508.10
	19.560	729.00	.00	.00	1315.60	14600.00	1328.21	.00	1330.15	33.82	11.16	1307.97	2510.53

14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	19.625	364.00	.00	.00	1317.60	5700.00	1329.89	.00	1330.82	2.14	7.73	737.58	3892.33
	19.625	364.00	.00	.00	1317.60	5700.00	1329.95	.00	1330.87	2.71	7.69	741.23	3463.95
	19.691	350.00	1334.80	1328.30	1318.60	5700.00	1331.53	.00	1332.37	1.81	7.35	775.94	4235.58
	19.691	350.00	1334.80	1328.30	1318.60	5700.00	1331.60	.00	1332.43	2.31	7.30	780.34	3751.47
	19.742	269.00	.00	.00	1319.10	5700.00	1331.99	.00	1332.51	1.65	5.78	989.66	4443.80
	19.742	269.00	.00	.00	1319.10	5700.00	1332.03	.00	1332.57	1.67	5.88	968.96	4413.26
*	19.847	554.00	.00	.00	1318.80	5700.00	1332.14	.00	1332.73	12.96	6.16	925.11	1583.22
*	19.847	554.00	.00	.00	1318.80	5700.00	1332.14	.00	1332.81	12.91	6.56	868.48	1586.46
*	19.960	597.00	.00	.00	1324.60	5700.00	1332.37	1332.22	1334.93	86.99	12.89	453.16	611.14
*	19.960	597.00	.00	.00	1324.60	5700.00	1332.43	.00	1335.03	94.25	12.94	440.51	587.14
*	19.974	74.00	.00	.00	1323.80	5700.00	1333.31	.00	1335.46	38.00	11.75	485.10	924.69
*	19.974	74.00	.00	.00	1323.80	5700.00	1333.67	.00	1335.66	42.62	11.33	503.02	873.10
	19.986	61.00	1337.90	1334.10	1323.80	5700.00	1335.25	.00	1336.73	20.47	9.76	584.05	1259.95
	19.986	61.00	1337.90	1334.10	1323.80	5700.00	1335.72	.00	1337.08	23.70	9.38	607.87	1170.79
*	20.049	333.00	.00	.00	1327.10	5700.00	1338.35	1338.35	1341.90	107.38	15.11	377.27	550.06
*	20.049	333.00	.00	.00	1327.10	5700.00	1338.20	1338.20	1341.96	111.86	15.56	366.41	538.93
*	20.144	502.00	.00	.00	1330.90	5700.00	1343.48	.00	1345.07	37.44	10.19	581.36	931.51
*	20.144	502.00	.00	.00	1330.90	5700.00	1343.38	.00	1345.17	37.33	10.77	536.15	932.88
	20.242	517.00	.00	.00	1333.30	5700.00	1345.49	.00	1347.06	39.42	10.18	585.14	907.91
	20.242	517.00	.00	.00	1333.30	5700.00	1345.51	.00	1347.16	39.05	10.35	561.35	912.12
	20.335	491.00	.00	.00	1337.30	5700.00	1347.44	.00	1348.61	24.69	8.72	670.93	1147.08
	20.335	491.00	.00	.00	1337.30	5700.00	1347.54	.00	1348.79	27.39	9.00	640.23	1089.20
	20.347	63.00	.00	.00	1337.20	5700.00	1347.24	.00	1349.16	31.74	11.13	512.00	1011.72
	20.347	63.00	.00	.00	1337.20	5700.00	1347.42	.00	1349.28	29.91	10.94	521.20	1042.18
	20.366	100.00	1354.50	1349.70	1337.20	5700.00	1347.97	.00	1349.64	25.15	10.38	549.06	1136.68
	20.366	100.00	1354.50	1349.70	1337.20	5700.00	1348.18	.00	1349.79	23.52	10.17	560.21	1175.41
	20.423	301.00	.00	.00	1338.00	5700.00	1349.57	.00	1350.51	18.88	8.03	779.90	1311.67
	20.423	301.00	.00	.00	1338.00	5700.00	1349.71	.00	1350.61	17.88	7.89	795.50	1347.87
	20.430	37.00	.00	.00	1339.30	5700.00	1349.13	.00	1351.13	34.03	11.37	501.41	977.07
	20.430	37.00	.00	.00	1339.30	5700.00	1349.27	.00	1351.22	32.42	11.20	508.76	1001.06
	20.444	70.00	1355.50	1351.30	1339.30	5700.00	1349.92	.00	1351.64	26.28	10.52	541.84	1111.87
	20.444	70.00	1355.50	1351.30	1339.30	5700.00	1350.02	.00	1351.71	25.50	10.43	546.76	1128.76
	20.529	449.00	.00	.00	1343.00	5700.00	1352.25	.00	1352.95	19.24	6.88	916.22	1299.44
	20.529	449.00	.00	.00	1343.00	5700.00	1352.24	.00	1353.01	20.52	7.10	841.01	1258.34

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	20.628	523.00	.00	.00	1343.30	5700.00	1353.31	.00	1353.74	11.25	5.23	1089.38	1699.46
	20.628	523.00	.00	.00	1343.30	5700.00	1353.34	.00	1353.79	10.54	5.38	1059.09	1755.47
*	20.725	512.00	.00	.00	1347.20	5700.00	1356.04	1356.04	1359.09	107.64	14.03	406.20	549.40
*	20.725	512.00	.00	.00	1347.20	5700.00	1355.94	1355.94	1359.12	110.46	14.31	398.21	542.35
*	20.737	80.00	.00	.00	1350.90	5700.00	1358.17	1358.17	1361.84	93.20	15.38	370.63	590.44
*	20.737	80.00	.00	.00	1350.90	5700.00	1358.20	1358.20	1361.84	92.01	15.32	372.07	594.25
*	20.750	71.00	1366.00	1363.00	1351.00	5700.00	1360.60	.00	1362.70	36.86	11.64	489.54	938.83
*	20.750	71.00	1366.00	1363.00	1351.00	5700.00	1360.60	.00	1362.70	36.86	11.64	489.54	938.83
*	20.819	365.00	.00	.00	1356.50	5700.00	1362.37	.00	1364.78	81.33	12.46	457.61	632.04
*	20.819	365.00	.00	.00	1356.50	5700.00	1362.37	.00	1364.78	81.31	12.45	457.65	632.12
*	20.841	115.00	1369.90	1365.40	1357.40	5700.00	1364.38	.00	1366.08	45.51	10.46	544.68	844.92
*	20.841	115.00	1369.90	1365.40	1357.40	5700.00	1364.38	.00	1366.08	45.51	10.46	544.68	844.92
*	20.860	100.00	.00	.00	1356.30	5700.00	1365.98	.00	1366.67	19.46	6.72	912.66	1292.01
*	20.860	100.00	.00	.00	1356.30	5700.00	1365.94	.00	1366.67	20.04	6.84	851.77	1273.28
	20.942	433.00	.00	.00	1359.60	5700.00	1367.29	.00	1367.72	27.79	5.53	1090.58	1081.34
*	20.942	433.00	.00	.00	1359.60	5700.00	1367.23	.00	1367.96	47.87	7.21	850.11	823.88
*	21.036	496.00	.00	.00	1363.50	5700.00	1371.95	1371.95	1373.07	47.34	8.87	828.79	828.42
*	21.036	496.00	.00	.00	1363.50	5700.00	1371.48	1371.48	1373.10	72.72	10.35	608.37	668.42
*	21.127	480.00	.00	.00	1366.70	5700.00	1374.75	1374.75	1375.74	43.60	8.80	919.55	863.25
	21.127	480.00	.00	.00	1366.70	5700.00	1374.63	1374.23	1376.44	64.91	10.91	564.59	707.51
*	21.230	544.00	.00	.00	1372.00	5700.00	1380.36	1380.36	1381.67	72.15	10.33	736.83	671.04
*	21.230	544.00	.00	.00	1372.00	5700.00	1380.37	1380.37	1381.88	80.46	10.91	652.73	635.45
*	21.363	702.00	.00	.00	1374.10	5700.00	1383.37	.00	1383.90	16.86	5.93	1035.95	1388.32
*	21.363	702.00	.00	.00	1374.10	5700.00	1383.58	.00	1384.11	15.72	5.84	986.18	1437.55
*	21.484	639.00	.00	.00	1378.50	5700.00	1386.53	1386.53	1387.44	63.78	9.12	915.16	713.74
*	21.484	639.00	.00	.00	1378.50	5700.00	1387.09	1387.09	1388.54	75.69	10.34	646.88	655.17
*	21.576	486.00	.00	.00	1382.10	5700.00	1389.24	1389.24	1390.02	50.20	8.22	1109.82	804.46
*	21.576	486.00	.00	.00	1382.10	5700.00	1390.18	.00	1391.06	38.27	8.04	814.66	921.36
*	21.669	491.00	.00	.00	1384.00	5500.00	1393.38	1393.38	1393.98	45.19	8.25	1287.15	818.20
*	21.669	491.00	.00	.00	1384.00	5500.00	1393.89	1393.89	1395.24	70.88	10.56	685.93	653.27
*	21.742	385.00	.00	.00	1386.40	5500.00	1395.18	1395.18	1396.38	53.65	8.98	734.57	750.89
*	21.742	385.00	.00	.00	1386.40	5500.00	1396.16	.00	1396.95	28.41	7.36	832.26	1031.84
	21.840	517.00	.00	.00	1391.10	5500.00	1398.04	.00	1398.83	43.14	7.92	908.85	837.39
*	21.840	517.00	.00	.00	1391.10	5500.00	1397.92	.00	1399.09	59.89	9.18	685.70	710.69

KC14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10WKS	VCH	AREA	.01K
*	21.895	290.00	.00	.00	1391.90	5500.00	1399.67	1399.67	1400.47	49.43	9.18	1037.17	782.26
	21.895	290.00	.00	.00	1391.90	5500.00	1399.72	.00	1401.04	68.75	10.89	702.38	663.30
*	21.933	210.00	.00	.00	1396.80	5500.00	1400.86	.00	1400.99	12.21	3.39	2030.13	1573.85
*	21.933	210.00	.00	.00	1396.80	5500.00	1401.48	.00	1401.69	13.14	3.94	1565.88	1517.49
*	21.953	74.00	.00	.00	1394.00	5500.00	1401.06	1401.06	1402.01	94.59	9.53	815.45	565.51
*	21.953	74.00	.00	.00	1394.00	5500.00	1401.20	.00	1402.09	83.42	9.11	812.00	602.19
*	22.065	591.00	.00	.00	1395.80	5500.00	1404.08	.00	1404.25	25.09	4.33	1715.38	1098.07
*	22.065	591.00	.00	.00	1395.80	5500.00	1404.48	.00	1404.84	37.32	5.59	1165.43	900.34
	22.165	528.00	.00	.00	1395.00	5500.00	1405.25	.00	1405.46	20.42	5.39	1677.00	1216.98
	22.165	528.00	.00	.00	1395.00	5500.00	1406.06	.00	1406.42	24.51	6.31	1252.51	1110.85
*	22.273	570.00	.00	.00	1399.40	5500.00	1406.66	.00	1407.38	69.28	7.76	891.90	660.78
*	22.273	570.00	.00	.00	1399.40	5500.00	1407.61	.00	1408.32	51.27	7.48	878.62	768.12
*	22.410	723.00	.00	.00	1404.00	5500.00	1414.22	1414.22	1415.98	87.56	11.45	595.76	587.77
*	22.410	723.00	.00	.00	1404.00	5500.00	1414.09	1414.09	1416.01	96.64	11.88	559.69	559.49
*	22.483	385.00	.00	.00	1405.50	5500.00	1416.46	.00	1416.58	4.21	2.99	2093.87	2680.22
*	22.483	385.00	.00	.00	1405.50	5500.00	1416.74	.00	1417.04	9.90	4.55	1293.02	1748.37
*	22.578	502.00	.00	.00	1406.70	5500.00	1416.34	.00	1417.33	44.98	7.98	688.90	820.04
*	22.578	502.00	.00	.00	1406.70	5500.00	1417.22	.00	1418.01	31.42	7.12	772.83	981.28
*	22.675	512.00	.00	.00	1409.70	5500.00	1418.01	.00	1418.14	6.80	2.96	1858.05	2109.70
*	22.675	512.00	.00	.00	1409.70	5500.00	1418.72	.00	1418.96	11.07	3.91	1407.38	1652.73
*	22.794	628.00	.00	.00	1410.70	5500.00	1418.55	.00	1418.97	26.03	5.24	1072.89	1078.10
	22.794	628.00	.00	.00	1410.70	5500.00	1419.50	.00	1419.84	17.09	4.70	1175.60	1330.59
	22.880	454.00	.00	.00	1413.00	5500.00	1420.05	.00	1420.62	50.65	6.10	901.87	772.85
*	22.880	454.00	.00	.00	1413.00	5500.00	1420.53	.00	1421.31	62.85	7.09	775.93	693.77
	22.990	581.00	.00	.00	1417.90	5500.00	1423.63	.00	1424.26	78.40	6.32	869.80	621.14
	22.990	581.00	.00	.00	1417.90	5500.00	1424.63	.00	1425.77	90.71	8.56	642.83	577.47
*	23.097	565.00	.00	.00	1425.10	5500.00	1429.89	1429.89	1431.46	183.69	10.08	555.18	405.81
	23.097	565.00	.00	.00	1425.10	5500.00	1430.60	.00	1432.09	136.26	9.81	560.52	471.17
*	23.168	375.00	.00	.00	1428.90	5500.00	1433.05	.00	1433.22	19.25	3.49	1723.90	1253.68
*	23.168	375.00	.00	.00	1428.90	5500.00	1433.32	.00	1433.46	14.67	3.20	1891.73	1435.78
*	23.253	459.00	.00	.00	1425.20	3400.00	1434.53	1434.53	1437.36	149.19	13.49	252.01	278.36
*	23.253	459.00	.00	.00	1425.20	3400.00	1434.51	1434.51	1437.36	151.14	13.56	250.82	276.56
	23.334	417.00	.00	.00	1432.60	3400.00	1440.39	.00	1441.83	76.40	9.61	353.69	388.98
*	23.334	417.00	.00	.00	1432.60	3400.00	1440.41	.00	1441.84	75.80	9.59	354.66	390.52

1674PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	23.416	433.00	.00	.00	1436.50	3400.00	1443.82	.00	1445.60	94.42	10.68	318.26	349.91
	23.416	433.00	.00	.00	1436.50	3400.00	1443.82	.00	1445.60	94.62	10.69	318.03	349.54
	23.514	517.00	.00	.00	1439.60	3400.00	1448.11	.00	1449.46	59.37	9.32	364.79	441.27
	23.514	517.00	.00	.00	1439.60	3400.00	1448.11	.00	1449.46	59.33	9.32	364.88	441.43
	23.544	158.00	.00	.00	1441.40	3400.00	1448.91	.00	1450.79	95.52	10.99	309.40	347.89
	23.544	158.00	.00	.00	1441.40	3400.00	1448.91	.00	1450.79	95.48	10.99	309.44	347.95
*	23.555	60.00	1449.00	1445.00	1442.00	3400.00	1452.64	.00	1453.37	25.05	6.89	493.78	679.34
*	23.555	60.00	1449.00	1445.00	1442.00	3400.00	1452.64	.00	1453.37	25.05	6.89	493.78	679.34
	23.591	190.00	.00	.00	1444.20	3400.00	1453.15	.00	1453.93	32.92	7.11	478.47	592.54
	23.591	190.00	.00	.00	1444.20	3400.00	1453.15	.00	1453.93	32.92	7.11	478.47	592.54
	23.691	528.00	.00	.00	1446.40	3400.00	1455.15	.00	1456.48	65.85	9.24	367.91	418.99
	23.691	528.00	.00	.00	1446.40	3400.00	1455.15	.00	1456.48	65.85	9.24	367.91	418.99
*	23.815	655.00	.00	.00	1449.70	4350.00	1459.01	.00	1460.09	47.97	8.35	520.93	628.10
*	23.815	655.00	.00	.00	1449.70	4350.00	1459.01	.00	1460.09	47.97	8.35	520.93	628.10
*	23.912	512.00	.00	.00	1447.90	5300.00	1461.04	.00	1462.18	35.58	8.56	619.09	888.54
*	23.912	512.00	.00	.00	1447.90	5300.00	1461.04	.00	1462.18	35.58	8.56	619.09	888.54
*	23.989	407.00	.00	.00	1449.70	5300.00	1462.61	.00	1463.23	18.01	6.35	834.96	1248.92
*	23.989	407.00	.00	.00	1449.70	5300.00	1462.61	.00	1463.23	18.01	6.35	834.96	1248.92
	24.086	512.00	.00	.00	1453.60	5300.00	1463.44	.00	1464.31	19.24	7.48	708.36	1208.36
	24.086	512.00	.00	.00	1453.60	5300.00	1463.44	.00	1464.31	19.24	7.48	708.36	1208.36
	24.096	56.00	1466.70	1462.20	1453.60	5300.00	1464.71	.00	1465.39	12.80	6.62	800.39	1481.19
	24.096	56.00	1466.70	1462.20	1453.60	5300.00	1464.71	.00	1465.39	12.80	6.62	800.39	1481.19
	24.106	53.00	.00	.00	1454.20	5300.00	1465.21	.00	1465.55	8.89	4.82	1198.54	1777.67
	24.106	53.00	.00	.00	1454.20	5300.00	1465.00	.00	1465.52	14.33	5.75	922.02	1399.85
*	24.195	470.00	.00	.00	1453.60	5300.00	1465.69	.00	1465.84	4.02	3.11	1706.81	2643.96
	24.195	470.00	.00	.00	1453.60	5300.00	1465.68	.00	1466.01	7.66	4.67	1134.88	1914.48
*	24.322	671.00	.00	.00	1451.60	5300.00	1465.91	.00	1465.95	.81	1.77	3457.15	5871.30
*	24.322	671.00	.00	.00	1451.60	5300.00	1466.17	.00	1466.31	2.62	3.11	1776.40	3277.22
*	24.444	644.00	.00	.00	1457.30	5300.00	1465.95	.00	1466.10	7.27	3.18	1730.97	1965.39
*	24.444	644.00	.00	.00	1457.30	5300.00	1466.37	.00	1466.70	14.43	4.64	1143.92	1395.12
*	24.542	517.00	.00	.00	1459.80	5300.00	1466.33	.00	1467.25	89.55	7.71	691.99	560.06
*	24.542	517.00	.00	.00	1459.80	5300.00	1467.31	.00	1468.35	74.20	8.19	647.35	615.27
	24.635	491.00	.00	.00	1466.80	5300.00	1472.05	1471.83	1473.32	174.10	9.07	584.25	401.67
*	24.635	491.00	.00	.00	1466.80	5300.00	1472.06	1471.86	1473.84	168.91	10.73	493.95	407.80

K/T 4PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	24.738	544.00	.00	.00	1472.00	5200.00	1476.89	.00	1477.18	33.56	4.33	1195.97	897.59
*	24.738	544.00	.00	.00	1472.00	5200.00	1477.80	.00	1478.28	42.42	5.58	934.60	798.42
*	24.838	528.00	.00	.00	1474.70	5200.00	1480.33	1480.33	1480.92	168.49	8.85	918.44	400.60
*	24.838	528.00	.00	.00	1474.70	5200.00	1480.98	.00	1481.73	139.20	8.87	786.86	440.73
*	24.943	554.00	.00	.00	1477.70	5200.00	1483.44	.00	1483.57	21.10	3.76	1891.70	1132.13
*	24.943	554.00	.00	.00	1477.70	5200.00	1484.36	.00	1484.58	25.29	4.54	1410.78	1033.99
*	25.048	554.00	.00	.00	1483.70	5200.00	1487.27	1487.27	1487.98	206.08	7.66	798.02	362.23
*	25.048	554.00	.00	.00	1483.70	5200.00	1487.63	1487.63	1488.57	227.55	8.84	676.21	344.72
*	25.163	607.00	.00	.00	1486.00	4900.00	1492.19	.00	1492.51	37.49	5.23	1115.73	800.31
*	25.163	607.00	.00	.00	1486.00	4900.00	1493.08	.00	1493.53	40.72	5.98	927.47	767.90
	25.262	523.00	.00	.00	1484.00	4900.00	1494.01	.00	1494.20	28.47	3.54	1407.53	918.37
	25.262	523.00	.00	.00	1484.00	4900.00	1495.04	.00	1495.36	30.91	4.49	1081.59	881.36
*	25.374	591.00	.00	.00	1493.30	4900.00	1499.37	1499.37	1499.62	28.69	4.64	1219.18	914.76
*	25.374	591.00	.00	.00	1493.30	4900.00	1500.17	1500.17	1502.33	176.15	12.64	426.83	369.20
*	25.434	317.00	.00	.00	1495.80	4900.00	1503.97	1503.97	1506.92	117.21	13.78	355.50	452.60
	25.434	317.00	.00	.00	1495.80	4900.00	1504.17	1504.09	1506.91	105.72	13.30	368.40	476.57
*	25.500	349.00	.00	.00	1497.70	4900.00	1507.74	.00	1508.08	11.09	4.69	1043.72	1471.31
*	25.500	349.00	.00	.00	1497.70	4900.00	1507.65	.00	1508.42	18.94	7.02	698.04	1125.98
*	25.523	121.00	.00	.00	1496.00	4900.00	1507.99	.00	1508.19	3.31	3.95	1453.09	2693.02
*	25.523	121.00	.00	.00	1496.00	4900.00	1508.20	.00	1508.63	5.89	5.34	962.01	2018.88
*	25.534	58.00	.00	.00	1505.54	4900.00	1510.75	1510.75	1513.36	22.46	12.96	378.16	1033.93
*	25.534	58.00	.00	.00	1505.54	4900.00	1510.76	1510.76	1513.36	22.42	12.95	378.38	1034.91
*	25.551	90.00	.00	.00	1505.54	4900.00	1512.21	1510.75	1513.80	10.25	10.10	485.21	1530.36
*	25.551	90.00	.00	.00	1505.54	4900.00	1512.21	1510.75	1513.80	10.26	10.10	485.02	1529.40
	25.557	32.00	.00	.00	1505.54	4900.00	1512.08	.00	1514.01	13.85	11.16	438.95	1316.46
	25.557	32.00	.00	.00	1505.54	4900.00	1512.07	.00	1514.01	13.87	11.17	438.73	1315.51
	25.561	21.00	.00	.00	1505.60	2900.00	1514.36	.00	1514.55	5.29	3.51	825.44	1260.46
	25.561	21.00	.00	.00	1505.60	2900.00	1514.32	.00	1514.54	6.12	3.82	759.61	1172.48
*	25.680	628.00	.00	.00	1506.50	2700.00	1514.74	.00	1514.78	2.25	1.74	1826.16	1799.08
*	25.680	628.00	.00	.00	1506.50	2700.00	1514.80	.00	1515.26	21.79	5.41	499.50	578.41
*	25.786	560.00	.00	.00	1510.70	2500.00	1516.32	1516.32	1516.97	57.73	7.24	470.39	329.03
*	25.786	560.00	.00	.00	1510.70	2500.00	1516.35	1516.23	1517.71	97.06	9.43	275.78	253.76
	25.947	850.00	.00	.00	1514.40	2300.00	1521.07	.00	1521.63	52.25	6.24	395.73	318.20
*	25.947	850.00	.00	.00	1514.40	2300.00	1521.86	.00	1522.40	33.43	5.92	388.28	397.81

14714PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	26.058	586.00	.00	.00	1516.20	2200.00	1523.49	.00	1523.98	32.12	6.27	429.92	388.20
	26.058	586.00	.00	.00	1516.20	2200.00	1523.83	.00	1524.65	41.41	7.47	309.10	341.86
	26.152	496.00	.00	.00	1520.00	2000.00	1524.99	.00	1525.46	31.82	5.45	366.69	354.53
	26.152	496.00	.00	.00	1520.00	2000.00	1525.70	.00	1526.20	23.76	5.68	351.95	410.27
*	26.265	597.00	.00	.00	1522.00	1900.00	1528.15	1528.15	1529.39	95.30	9.23	229.49	194.63
*	26.265	597.00	.00	.00	1522.00	1900.00	1528.08	1528.08	1529.38	101.64	9.44	218.71	188.46
*	26.372	565.00	.00	.00	1523.80	1700.00	1531.35	.00	1531.67	19.79	4.57	372.17	382.13
*	26.372	565.00	.00	.00	1523.80	1700.00	1531.37	.00	1531.69	19.37	4.54	374.36	386.26
*	26.492	634.00	.00	.00	1525.70	1600.00	1532.15	.00	1532.22	4.42	2.22	720.91	760.94
*	26.492	634.00	.00	.00	1525.70	1600.00	1532.19	.00	1532.34	6.02	3.13	511.35	652.27
*	26.582	475.00	.00	.00	1524.10	1300.00	1532.24	.00	1532.24	.07	.46	3789.45	4850.37
	26.582	475.00	.00	.00	1524.10	1300.00	1532.43	.00	1532.52	2.21	2.39	544.09	875.36
*	26.673	480.00	.00	.00	1531.80	1300.00	1533.98	1533.98	1534.51	96.96	6.28	248.58	132.02
*	26.673	480.00	.00	.00	1531.80	1300.00	1534.94	1534.94	1536.17	109.65	8.91	145.96	124.15
*	26.784	586.00	.00	.00	1542.70	1100.00	1546.18	1546.18	1547.20	109.38	8.10	135.78	105.18
*	26.784	586.00	.00	.00	1542.70	1100.00	1546.25	1546.25	1547.49	105.42	8.94	123.09	107.14
*	26.883	523.00	.00	.00	1540.10	1000.00	1547.31	.00	1547.31	.05	.40	2671.91	4492.66
*	26.883	523.00	.00	.00	1540.10	1000.00	1547.92	.00	1548.02	2.46	2.56	391.26	637.12
*	26.984	533.00	.00	.00	1540.50	900.00	1547.31	.00	1547.32	.15	.60	1686.73	2356.67
*	26.984	533.00	.00	.00	1540.50	900.00	1548.07	.00	1548.24	6.45	3.29	273.28	354.31
*	27.060	401.00	.00	.00	1554.10	900.00	1559.46	1559.46	1561.02	101.53	10.02	89.81	89.32
*	27.060	401.00	.00	.00	1554.10	900.00	1559.45	1559.45	1561.02	102.11	10.05	89.59	89.07
*	27.166	560.00	.00	.00	1555.20	600.00	1562.18	.00	1562.35	6.44	3.31	181.45	236.47
*	27.166	560.00	.00	.00	1555.20	600.00	1562.18	.00	1562.35	6.42	3.30	181.63	236.89
	27.294	676.00	.00	.00	1556.00	400.00	1562.54	.00	1562.59	1.67	1.72	232.88	309.81
	27.294	676.00	.00	.00	1556.00	400.00	1562.54	.00	1562.59	1.67	1.72	232.86	309.80
	-19.560	729.00	.00	.00	1315.60	14600.00	1328.21	.00	1330.15	33.82	11.16	1307.90	2510.35
	-19.560	729.00	.00	.00	1315.60	14600.00	1328.21	.00	1330.15	33.82	11.16	1307.93	2510.44
*	.029	430.00	.00	.00	1319.60	9500.00	1329.35	1329.35	1332.60	18.21	14.47	672.25	2226.19
*	.029	430.00	.00	.00	1319.60	9500.00	1329.43	1329.43	1332.59	17.49	14.29	682.62	2271.54
*	.112	483.00	.00	.00	1321.50	9500.00	1332.94	.00	1333.44	8.28	5.68	1741.63	3301.76
*	.112	483.00	.00	.00	1321.50	9500.00	1332.88	.00	1333.42	8.47	5.92	1603.45	3265.17
	.198	454.00	.00	.00	1323.80	9500.00	1333.31	.00	1333.94	12.41	6.35	1509.08	2697.00
	.198	454.00	.00	.00	1323.80	9500.00	1333.26	.00	1333.92	12.57	6.51	1458.94	2679.22

14PRINT

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	.288	475.00	.00	.00	1325.70	9500.00	1333.31	1333.31	1335.83	79.20	12.74	745.67	1067.50
*	.288	475.00	.00	.00	1325.70	9500.00	1333.30	1333.30	1335.83	79.49	12.76	744.67	1065.52
*	.398	581.00	.00	.00	1328.80	9500.00	1337.27	.00	1338.35	24.85	8.34	1138.69	1905.63
*	.398	581.00	.00	.00	1328.80	9500.00	1337.27	.00	1338.35	24.78	8.34	1139.05	1908.24
*	.482	444.00	.00	.00	1331.20	9500.00	1342.35	1342.35	1343.41	22.95	9.54	1700.60	1983.17
*	.482	444.00	.00	.00	1331.20	9500.00	1341.64	1341.64	1344.13	49.24	13.16	829.47	1353.84
	.575	491.00	.00	.00	1331.50	9500.00	1343.82	.00	1344.53	21.43	7.36	1720.09	2052.00
*	.575	491.00	.00	.00	1331.50	9500.00	1344.84	.00	1345.71	18.90	7.56	1294.41	2185.45
	.697	644.00	.00	.00	1334.00	9400.00	1345.06	.00	1346.10	24.32	8.33	1195.43	1906.18
	.697	644.00	.00	.00	1334.00	9400.00	1345.95	.00	1346.90	17.39	7.86	1221.27	2254.40
*	.826	681.00	.00	.00	1338.80	9400.00	1348.29	1348.29	1350.53	79.73	12.38	830.07	1052.73
*	.826	681.00	.00	.00	1338.80	9400.00	1348.13	1348.13	1350.60	86.78	12.95	776.05	1009.08
*	.945	628.00	.00	.00	1340.40	9400.00	1352.12	.00	1352.63	16.04	6.20	1847.46	2346.71
*	.945	628.00	.00	.00	1340.40	9400.00	1352.45	.00	1353.37	24.20	7.68	1223.92	1910.99
	1.035	475.00	.00	.00	1341.90	9400.00	1352.93	.00	1353.65	26.58	7.21	1503.77	1823.22
	1.035	475.00	.00	.00	1341.90	9400.00	1353.61	.00	1354.72	31.07	8.52	1118.91	1686.46
	1.121	454.00	.00	.00	1343.60	9400.00	1354.16	.00	1354.96	30.28	7.17	1315.12	1708.32
	1.121	454.00	.00	.00	1343.60	9400.00	1355.18	.00	1355.89	20.41	6.78	1387.04	2080.46
*	1.204	438.00	.00	.00	1344.30	9400.00	1355.42	1355.42	1357.51	78.29	12.18	903.84	1062.34
*	1.204	438.00	.00	.00	1344.30	9400.00	1355.74	.00	1357.83	71.64	11.99	867.22	1110.60
*	1.315	734.00	.00	.00	1348.80	9100.00	1359.33	.00	1359.72	13.96	5.34	1869.71	2435.48
*	1.315	734.00	.00	.00	1348.80	9100.00	1359.79	.00	1360.51	20.12	6.79	1340.51	2028.62
*	1.420	407.00	.00	.00	1354.00	8400.00	1361.00	.00	1361.67	15.50	9.46	1569.95	2133.74
*	1.420	407.00	.00	.00	1354.00	8400.00	1361.60	.00	1362.84	21.73	11.88	1102.30	1801.91

IC714PRINT

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	17.505	15400.00	1281.51	.00	.00	.03	267.62	.00
	17.505	15400.00	1282.48	.97	.00	.97	304.62	.00
*	17.588	15400.00	1284.68	.00	3.18	.00	453.55	438.00
*	17.588	15400.00	1284.66	-.02	2.18	-.02	337.76	438.00
*	17.662	15400.00	1284.89	.00	.21	.00	334.25	391.00
*	17.662	15400.00	1284.96	.07	.30	.07	250.00	391.00
*	17.783	15400.00	1285.80	.00	.91	.00	203.28	639.00
*	17.783	15400.00	1286.41	.61	1.45	.61	143.00	639.00
	17.932	15400.00	1290.83	.00	5.03	.00	159.26	787.00
	17.932	15400.00	1291.39	.56	4.98	.56	110.00	787.00
*	18.042	15400.00	1294.31	.00	3.48	.00	96.77	581.00
*	18.042	15400.00	1294.43	.12	3.04	.12	96.78	581.00
	18.061	15400.00	1296.44	.00	2.13	.00	96.89	101.00
	18.061	15400.00	1296.69	.25	2.26	.25	96.91	101.00
*	18.081	15400.00	1299.54	.00	3.10	.00	229.55	106.00
*	18.081	15400.00	1299.61	.07	2.92	.07	185.00	106.00
	18.174	15400.00	1300.22	.00	.68	.00	597.81	491.00
	18.174	15400.00	1300.18	-.04	.57	-.04	267.97	491.00
*	18.269	15400.00	1300.17	.00	-.05	.00	228.72	502.00
	18.269	15400.00	1300.29	.12	.12	.12	227.80	502.00
	18.362	15400.00	1300.54	.00	.36	.00	212.97	491.00
	18.362	15400.00	1300.64	.11	.35	.11	212.20	491.00
*	18.445	15400.00	1305.39	.00	4.85	.00	386.35	440.00
*	18.445	15400.00	1305.16	-.23	4.52	-.23	253.31	440.00
*	18.456	15400.00	1307.31	.00	1.92	.00	443.73	60.00
*	18.456	15400.00	1308.18	.86	3.02	.86	255.00	60.00
*	18.545	15400.00	1308.28	.00	.97	.00	288.68	466.00
*	18.545	15400.00	1309.18	.89	1.00	.89	288.40	466.00
	18.575	15400.00	1308.43	.00	.14	.00	290.32	160.00
	18.575	15400.00	1309.29	.86	.11	.86	290.10	160.00
	18.583	15400.00	1309.50	.00	1.07	.00	301.44	40.00
	18.583	15400.00	1309.85	.35	.56	.35	301.10	40.00

K/14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	18.640	15400.00	1309.43	.00	-.07	.00	255.52	301.00
	18.640	15400.00	1309.78	.36	-.07	.36	255.10	301.00
	18.734	15400.00	1309.68	.00	.26	.00	228.83	496.00
	18.734	15400.00	1310.01	.33	.23	.33	228.50	496.00
	18.832	15400.00	1310.19	.00	.51	.00	216.17	517.00
	18.832	15400.00	1310.47	.28	.46	.28	215.20	517.00
	18.925	15400.00	1310.64	.00	.45	.00	200.07	491.00
	18.925	15400.00	1310.88	.24	.41	.24	199.80	491.00
*	19.018	15400.00	1310.89	.00	.26	.00	172.44	491.00
*	19.018	15400.00	1311.11	.21	.23	.21	172.20	491.00
*	19.117	15400.00	1312.49	.00	1.59	.00	120.09	523.00
*	19.117	15400.00	1312.69	.20	1.58	.20	119.80	523.00
*	19.210	15400.00	1317.19	.00	4.70	.00	158.26	491.00
*	19.210	15400.00	1317.09	-.09	4.41	-.09	157.47	491.00
*	19.283	14600.00	1319.92	.00	2.73	.00	109.00	386.00
*	19.283	14600.00	1319.92	.00	2.82	.00	109.00	386.00
*	19.299	14600.00	1322.06	.00	2.13	.00	109.00	86.00
*	19.299	14600.00	1322.06	.00	2.14	.00	109.00	86.00
	19.313	14600.00	1323.31	.00	1.25	.00	159.66	74.00
	19.313	14600.00	1323.30	.00	1.25	.00	159.64	74.00
	19.418	14600.00	1325.59	.00	2.29	.00	162.69	554.00
	19.418	14600.00	1325.59	.00	2.29	.00	162.69	554.00
	19.560	14600.00	1328.21	.00	2.62	.00	129.60	729.00
	19.560	14600.00	1328.21	.00	2.62	.00	129.63	729.00
*	19.625	5700.00	1329.89	.00	1.68	.00	60.00	364.00
	19.625	5700.00	1329.95	.06	1.74	.06	60.00	364.00
	19.691	5700.00	1331.53	.00	1.64	.00	60.00	350.00
	19.691	5700.00	1331.60	.07	1.65	.07	60.00	350.00
	19.742	5700.00	1331.99	.00	.46	.00	108.35	269.00
	19.742	5700.00	1332.03	.04	.43	.04	85.00	269.00
*	19.847	5700.00	1332.14	.00	.15	.00	109.85	554.00
*	19.847	5700.00	1332.14	.00	.11	.00	86.00	554.00
*	19.960	5700.00	1332.37	.00	.24	.00	86.88	597.00
*	19.960	5700.00	1332.43	.05	.29	.05	73.00	597.00

K/14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	19.974	5700.00	1333.31	.00	.94	.00	51.00	74.00
*	19.974	5700.00	1333.67	.35	1.24	.35	51.00	74.00
	19.986	5700.00	1335.25	.00	1.94	.00	51.00	61.00
	19.986	5700.00	1335.72	.47	2.05	.47	51.00	61.00
*	20.049	5700.00	1338.35	.00	3.10	.00	53.63	333.00
*	20.049	5700.00	1338.20	-.15	2.49	-.15	49.93	333.00
*	20.144	5700.00	1343.48	.00	5.13	.00	83.94	502.00
*	20.144	5700.00	1343.38	-.11	5.17	-.11	57.00	502.00
	20.242	5700.00	1345.49	.00	2.00	.00	88.68	517.00
	20.242	5700.00	1345.51	.02	2.13	.02	71.00	517.00
	20.335	5700.00	1347.44	.00	1.95	.00	88.31	491.00
	20.335	5700.00	1347.54	.10	2.03	.10	73.00	491.00
	20.347	5700.00	1347.24	.00	-.20	.00	51.00	63.00
	20.347	5700.00	1347.42	.18	-.12	.18	51.00	63.00
	20.366	5700.00	1347.97	.00	.73	.00	51.00	100.00
	20.366	5700.00	1348.18	.22	.76	.22	51.00	100.00
	20.423	5700.00	1349.57	.00	1.60	.00	112.82	301.00
	20.423	5700.00	1349.71	.14	1.52	.14	113.80	301.00
	20.430	5700.00	1349.13	.00	-.44	.00	51.00	37.00
	20.430	5700.00	1349.27	.14	-.43	.14	51.00	37.00
	20.444	5700.00	1349.92	.00	.80	.00	51.00	70.00
	20.444	5700.00	1350.02	.10	.75	.10	51.00	70.00
	20.529	5700.00	1352.25	.00	2.33	.00	189.83	449.00
	20.529	5700.00	1352.24	-.01	2.22	-.01	139.00	449.00
	20.628	5700.00	1353.31	.00	1.06	.00	150.61	523.00
	20.628	5700.00	1353.34	.03	1.10	.03	130.00	523.00
*	20.725	5700.00	1356.04	.00	2.72	.00	67.22	512.00
*	20.725	5700.00	1355.94	-.09	2.60	-.09	64.00	512.00
*	20.737	5700.00	1358.17	.00	2.13	.00	51.00	80.00
*	20.737	5700.00	1358.20	.03	2.25	.03	51.00	80.00
*	20.750	5700.00	1360.60	.00	2.43	.00	51.00	71.00
*	20.750	5700.00	1360.60	.00	2.40	.00	51.00	71.00
*	20.819	5700.00	1362.37	.00	1.77	.00	78.00	365.00
*	20.819	5700.00	1362.37	.00	1.77	.00	78.00	365.00

K/L4PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	20.841	5700.00	1364.38	.00	2.01	.00	78.00	115.00
*	20.841	5700.00	1364.38	.00	2.01	.00	78.00	115.00
*	20.860	5700.00	1365.98	.00	1.60	.00	261.14	100.00
*	20.860	5700.00	1365.94	-.04	1.56	-.04	156.00	100.00
	20.942	5700.00	1367.29	.00	1.31	.00	313.22	433.00
*	20.942	5700.00	1367.23	-.06	1.29	-.06	250.00	433.00
*	21.036	5700.00	1371.95	.00	4.66	.00	520.10	496.00
*	21.036	5700.00	1371.48	-.47	4.25	-.47	250.00	496.00
*	21.127	5700.00	1374.75	.00	2.80	.00	434.39	480.00
	21.127	5700.00	1374.63	-.12	3.15	-.12	160.00	480.00
*	21.230	5700.00	1380.36	.00	5.62	.00	304.81	544.00
*	21.230	5700.00	1380.37	.00	5.74	.00	221.77	544.00
*	21.363	5700.00	1383.37	.00	3.00	.00	366.91	702.00
*	21.363	5700.00	1383.58	.21	3.21	.21	166.44	702.00
*	21.484	5700.00	1386.53	.00	3.16	.00	514.70	639.00
*	21.484	5700.00	1387.09	.57	3.51	.57	215.51	639.00
*	21.576	5700.00	1389.24	.00	2.71	.00	868.38	486.00
*	21.576	5700.00	1390.18	.94	3.08	.94	225.00	486.00
*	21.669	5500.00	1393.38	.00	4.13	.00	977.37	491.00
*	21.669	5500.00	1393.89	.52	3.72	.52	225.00	491.00
*	21.742	5500.00	1395.18	.00	1.80	.00	525.85	385.00
*	21.742	5500.00	1396.16	.98	2.27	.98	200.00	385.00
	21.840	5500.00	1398.04	.00	2.86	.00	437.88	517.00
*	21.840	5500.00	1397.92	-.12	1.76	-.12	200.00	517.00
*	21.895	5500.00	1399.67	.00	1.63	.00	596.22	290.00
	21.895	5500.00	1399.72	.05	1.80	.05	245.37	290.00
*	21.933	5500.00	1400.86	.00	1.19	.00	970.39	210.00
*	21.933	5500.00	1401.48	.62	1.77	.62	420.00	210.00
*	21.953	5500.00	1401.06	.00	.20	.00	459.91	74.00
*	21.953	5500.00	1401.20	.14	-.28	.14	310.27	74.00
*	22.065	5500.00	1404.08	.00	3.02	.00	777.84	591.00
*	22.065	5500.00	1404.48	.40	3.27	.40	396.88	591.00
	22.165	5500.00	1405.25	.00	1.17	.00	828.27	528.00
	22.165	5500.00	1406.06	.82	1.59	.82	381.09	528.00

14/14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	22.273	5500.00	1406.66	.00	1.42	.00	419.21	570.00
*	22.273	5500.00	1407.61	.94	1.54	.94	292.44	570.00
*	22.410	5500.00	1414.22	.00	7.56	.00	193.61	723.00
*	22.410	5500.00	1414.09	-.14	6.48	-.14	159.26	723.00
*	22.483	5500.00	1416.46	.00	2.23	.00	325.09	385.00
*	22.483	5500.00	1416.74	.29	2.65	.29	160.00	385.00
*	22.578	5500.00	1416.34	.00	-.11	.00	95.82	502.00
*	22.578	5500.00	1417.22	.88	.48	.88	96.00	502.00
*	22.675	5500.00	1418.01	.00	1.66	.00	287.90	512.00
*	22.675	5500.00	1418.72	.71	1.50	.71	198.00	512.00
*	22.794	5500.00	1418.55	.00	.55	.00	215.74	628.00
	22.794	5500.00	1419.50	.95	.78	.95	183.00	628.00
	22.880	5500.00	1420.05	.00	1.49	.00	211.78	454.00
*	22.880	5500.00	1420.53	.49	1.03	.49	169.00	454.00
	22.990	5500.00	1423.63	.00	3.59	.00	272.08	581.00
	22.990	5500.00	1424.63	1.00	4.10	1.00	136.00	581.00
*	23.097	5500.00	1429.89	.00	6.25	.00	186.86	565.00
	23.097	5500.00	1430.60	.71	5.97	.71	132.00	565.00
*	23.168	5500.00	1433.05	.00	3.16	.00	609.23	375.00
*	23.168	5500.00	1433.32	.27	2.72	.27	628.93	375.00
*	23.253	3400.00	1434.53	.00	1.48	.00	44.74	459.00
*	23.253	3400.00	1434.51	-.03	1.19	-.03	44.65	459.00
	23.334	3400.00	1440.39	.00	5.86	.00	66.92	417.00
*	23.334	3400.00	1440.41	.01	5.90	.01	66.98	417.00
	23.416	3400.00	1443.82	.00	3.43	.00	59.14	433.00
	23.416	3400.00	1443.82	.00	3.41	.00	59.12	433.00
	23.514	3400.00	1448.11	.00	4.28	.00	57.47	517.00
	23.514	3400.00	1448.11	.00	4.29	.00	57.48	517.00
	23.544	3400.00	1448.91	.00	.80	.00	54.80	158.00
	23.544	3400.00	1448.91	.00	.80	.00	54.80	158.00
*	23.555	3400.00	1452.64	.00	3.72	.00	63.27	60.00
*	23.555	3400.00	1452.64	.00	3.72	.00	63.27	60.00
	23.591	3400.00	1453.15	.00	.51	.00	75.49	190.00
	23.591	3400.00	1453.15	.00	.51	.00	75.49	190.00

1CT14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	23.691	3400.00	1455.15	.00	2.01	.00	65.33	528.00
	23.691	3400.00	1455.15	.00	2.01	.00	65.33	528.00
*	23.815	4350.00	1459.01	.00	3.86	.00	86.00	655.00
*	23.815	4350.00	1459.01	.00	3.86	.00	86.00	655.00
*	23.912	5300.00	1461.04	.00	2.03	.00	75.59	512.00
*	23.912	5300.00	1461.04	.00	2.03	.00	75.59	512.00
*	23.989	5300.00	1462.61	.00	1.56	.00	98.91	407.00
*	23.989	5300.00	1462.61	.00	1.56	.00	98.91	407.00
	24.086	5300.00	1463.44	.00	.83	.00	72.00	512.00
	24.086	5300.00	1463.44	.00	.83	.00	72.00	512.00
	24.096	5300.00	1464.71	.00	1.27	.00	72.00	56.00
	24.096	5300.00	1464.71	.00	1.27	.00	72.00	56.00
	24.106	5300.00	1465.21	.00	.50	.00	166.78	53.00
	24.106	5300.00	1465.00	-.21	.29	-.21	100.00	53.00
*	24.195	5300.00	1465.69	.00	.48	.00	196.58	470.00
	24.195	5300.00	1465.68	-.01	.67	-.01	100.00	470.00
*	24.322	5300.00	1465.91	.00	.22	.00	366.31	671.00
*	24.322	5300.00	1466.17	.26	.49	.26	140.00	671.00
*	24.444	5300.00	1465.95	.00	.04	.00	277.67	644.00
*	24.444	5300.00	1466.37	.41	.20	.41	153.00	644.00
*	24.542	5300.00	1466.33	.00	.37	.00	181.23	517.00
*	24.542	5300.00	1467.31	.98	.94	.98	121.98	517.00
	24.635	5300.00	1472.05	.00	5.72	.00	194.18	491.00
*	24.635	5300.00	1472.06	.01	4.75	.01	120.00	491.00
*	24.738	5200.00	1476.89	.00	4.84	.00	355.18	544.00
*	24.738	5200.00	1477.80	.91	5.74	.91	225.20	544.00
*	24.838	5200.00	1480.33	.00	3.44	.00	650.49	528.00
*	24.838	5200.00	1480.98	.66	3.18	.66	370.28	528.00
*	24.943	5200.00	1483.44	.00	3.12	.00	799.36	554.00
*	24.943	5200.00	1484.36	.92	3.38	.92	433.65	554.00
*	25.048	5200.00	1487.27	.00	3.83	.00	557.24	554.00
*	25.048	5200.00	1487.63	.36	3.27	.36	369.90	554.00
*	25.163	4900.00	1492.19	.00	4.92	.00	369.01	607.00
*	25.163	4900.00	1493.08	.89	5.45	.89	234.87	607.00

K/14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	25.262	4900.00	1494.01	.00	1.82	.00	521.78	523.00
	25.262	4900.00	1495.04	1.03	1.96	1.03	273.00	523.00
*	25.374	4900.00	1499.37	.00	5.35	.00	367.07	591.00
*	25.374	4900.00	1500.17	.80	5.12	.80	98.00	591.00
*	25.434	4900.00	1503.97	.00	4.60	.00	65.40	317.00
	25.434	4900.00	1504.17	.20	4.00	.20	66.00	317.00
*	25.500	4900.00	1507.74	.00	3.77	.00	170.83	349.00
*	25.500	4900.00	1507.65	-.09	3.49	-.09	80.00	349.00
*	25.523	4900.00	1507.99	.00	.25	.00	161.62	121.00
*	25.523	4900.00	1508.20	.21	.55	.21	80.00	121.00
*	25.534	4900.00	1510.75	.00	2.76	.00	73.10	58.00
*	25.534	4900.00	1510.76	.00	2.56	.00	73.10	58.00
*	25.551	4900.00	1512.21	.00	1.46	.00	73.41	90.00
*	25.551	4900.00	1512.21	.00	1.46	.00	73.41	90.00
	25.557	4900.00	1512.08	.00	-.14	.00	80.27	32.00
	25.557	4900.00	1512.07	.00	-.14	.00	80.25	32.00
	25.561	2900.00	1514.36	.00	2.29	.00	117.68	21.00
	25.561	2900.00	1514.32	-.04	2.24	-.04	100.55	21.00
*	25.680	2700.00	1514.74	.00	.38	.00	663.75	628.00
*	25.680	2700.00	1514.80	.06	.48	.06	100.00	628.00
*	25.786	2500.00	1516.32	.00	1.58	.00	351.98	560.00
*	25.786	2500.00	1516.35	.03	1.55	.03	100.00	560.00
	25.947	2300.00	1521.07	.00	4.75	.00	164.54	850.00
*	25.947	2300.00	1521.86	.79	5.51	.79	100.00	850.00
	26.058	2200.00	1523.49	.00	2.42	.00	182.03	586.00
	26.058	2200.00	1523.83	.34	1.97	.34	73.00	586.00
	26.152	2000.00	1524.99	.00	1.50	.00	105.87	496.00
	26.152	2000.00	1525.70	.70	1.87	.70	70.00	496.00
*	26.265	1900.00	1528.15	.00	3.15	.00	103.26	597.00
*	26.265	1900.00	1528.08	-.07	2.38	-.07	86.66	597.00
*	26.372	1700.00	1531.35	.00	3.20	.00	97.17	565.00
*	26.372	1700.00	1531.37	.02	3.29	.02	96.95	565.00
*	26.492	1600.00	1532.15	.00	.80	.00	183.14	634.00
*	26.492	1600.00	1532.19	.04	.83	.04	90.00	634.00

14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	26.582	1300.00	1532.24	.00	.09	.00	718.47	475.00
	26.582	1300.00	1532.43	.19	.24	.19	80.00	475.00
*	26.673	1300.00	1533.98	.00	1.74	.00	239.18	480.00
*	26.673	1300.00	1534.94	.96	2.51	.96	60.00	480.00
*	26.784	1100.00	1546.18	.00	12.20	.00	68.01	586.00
*	26.784	1100.00	1546.25	.07	11.32	.07	50.00	586.00
*	26.883	1000.00	1547.31	.00	1.13	.00	434.21	523.00
*	26.883	1000.00	1547.92	.61	1.67	.61	50.00	523.00
*	26.984	900.00	1547.31	.00	.00	.00	371.10	533.00
*	26.984	900.00	1548.07	.76	.15	.76	50.00	533.00
*	27.060	900.00	1559.46	.00	12.15	.00	29.47	401.00
*	27.060	900.00	1559.45	-.01	11.38	-.01	29.41	401.00
*	27.166	600.00	1562.18	.00	2.72	.00	38.99	560.00
*	27.166	600.00	1562.18	.00	2.72	.00	38.97	560.00
	27.294	400.00	1562.54	.00	.36	.00	50.20	676.00
	27.294	400.00	1562.54	.00	.36	.00	50.19	676.00
	-19.560	14600.00	1328.21	.00	-234.33	.00	129.62	729.00
	-19.560	14600.00	1328.21	.00	-234.33	.00	129.62	729.00
*	.029	9500.00	1329.35	.00	1.14	.00	130.50	430.00
*	.029	9500.00	1329.43	.08	1.22	.08	130.54	430.00
*	.112	9500.00	1332.94	.00	3.59	.00	330.25	483.00
*	.112	9500.00	1332.88	-.07	3.45	-.07	187.00	483.00
	.198	9500.00	1333.31	.00	.37	.00	249.57	454.00
	.198	9500.00	1333.26	-.05	.38	-.05	200.00	454.00
*	.288	9500.00	1333.31	.00	.00	.00	150.75	475.00
*	.288	9500.00	1333.30	-.01	.04	-.01	150.67	475.00
*	.398	9500.00	1337.27	.00	3.96	.00	181.83	581.00
*	.398	9500.00	1337.27	.00	3.96	.00	181.53	581.00
*	.482	9500.00	1342.35	.00	5.09	.00	889.74	444.00
*	.482	9500.00	1341.64	-.71	4.37	-.71	191.00	444.00
	.575	9500.00	1343.82	.00	1.47	.00	730.21	491.00
*	.575	9500.00	1344.84	1.01	3.20	1.01	210.00	491.00
	.697	9400.00	1345.06	.00	1.24	.00	237.20	644.00
	.697	9400.00	1345.95	.90	1.12	.90	160.00	644.00

ICM14PRINT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	.826	9400.00	1348.29	.00	3.24	.00	199.85	681.00
*	.826	9400.00	1348.13	-.17	2.17	-.17	160.00	681.00
*	.945	9400.00	1352.12	.00	3.82	.00	561.70	628.00
*	.945	9400.00	1352.45	.34	4.32	.34	160.00	628.00
	1.035	9400.00	1352.93	.00	.82	.00	460.77	475.00
	1.035	9400.00	1353.61	.68	1.16	.68	160.00	475.00
	1.121	9400.00	1354.16	.00	1.23	.00	235.28	454.00
	1.121	9400.00	1355.18	1.02	1.57	1.02	160.00	454.00
*	1.204	9400.00	1355.42	.00	1.26	.00	226.07	438.00
*	1.204	9400.00	1355.74	.32	.56	.32	160.00	438.00
*	1.315	9100.00	1359.33	.00	3.91	.00	332.04	734.00
*	1.315	9100.00	1359.79	.46	4.05	.46	155.00	734.00
*	1.420	B400.00	1361.00	.00	1.67	.00	970.00	407.00
*	1.420	B400.00	1361.60	.60	1.81	.60	400.00	407.00

1674PRINT

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=     17.505  PROFILE=  1  CRITICAL DEPTH ASSUMED

WARNING SECNO=     17.588  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     17.588  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     17.662  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     17.662  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     17.783  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     17.783  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.042  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.042  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.081  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.269  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     18.445  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     18.445  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     18.456  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.456  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.545  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.545  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.018  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.018  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.117  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.117  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     19.210  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.210  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.283  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.283  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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14PRINT

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CAUTION SECNO=     19.299  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     19.299  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.625  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.847  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.847  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.960  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.960  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.974  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.974  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.049  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.049  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.049  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.049  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.049  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.049  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     20.144  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.144  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.725  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.725  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.725  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.725  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.725  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.725  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     20.737  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.737  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.737  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.737  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.737  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.737  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     20.750  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=     20.750  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     20.750  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=     20.750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     20.819  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.819  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.841  PROFILE=  1  HYDRAULIC JUMP D.S.
CAUTION SECNO=     20.841  PROFILE=  2  HYDRAULIC JUMP D.S.

WARNING SECNO=     20.860  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.860  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     20.942  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.036  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.036  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.036  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.036  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.036  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     21.127  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.127  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     21.230  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.230  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.230  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.230  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.230  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     21.363  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     21.363  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.484  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.484  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.484  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.484  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.484  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.484  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     21.576  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.576  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     21.576  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.669  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.669  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.669  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.669  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.669  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.669  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     21.742  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.742  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     21.742  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     21.840  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.895  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.895  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     21.933  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     21.933  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.953  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.953  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.953  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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14PRINT

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WARNING SECNO=     21.953  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.065  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.065  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.273  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.273  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     22.410  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     22.410  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     22.410  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     22.410  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     22.483  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.483  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.578  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.578  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.675  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.675  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.794  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.880  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     23.097  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     23.097  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     23.168  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.168  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     23.253  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     23.253  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     23.253  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     23.253  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     23.253  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     23.253  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     23.334  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.555  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.555  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.815  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.815  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.912  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.912  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     23.989  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     23.989  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.195  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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K714PRINT

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WARNING SECNO=     24.322  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.322  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.444  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.444  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.542  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.542  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.635  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.738  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.738  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     24.838  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     24.838  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     24.838  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     24.943  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     24.943  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.048  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.048  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.048  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.048  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.048  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.048  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     25.163  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.163  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.374  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.374  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.374  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.374  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.374  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.374  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     25.434  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.434  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.434  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     25.500  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.500  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.523  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.523  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.534  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.534  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.534  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.534  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.534  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=     25.534  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     25.551  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.551  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     25.551  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.551  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.680  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.680  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.786  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.786  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.786  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.786  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.947  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     26.265  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.265  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.372  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.372  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.492  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.492  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.582  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     26.673  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.673  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.673  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     26.673  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.673  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.673  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     26.784  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.784  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.784  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     26.784  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.784  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.883  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.883  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.984  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.984  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     27.060  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.060  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.060  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     27.060  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.060  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=     27.060  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     27.166  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     27.166  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .029  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .029  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .029  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=       .029  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .029  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .029  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=       .112  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .112  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .288  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .288  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .288  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .288  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=       .398  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .398  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .482  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .482  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .482  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=       .482  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .482  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .482  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=       .575  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .826  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .826  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .826  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=       .826  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .826  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .826  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=       .945  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .945  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.204  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.204  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      1.204  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      1.315  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.315  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

NOTE    SECNO=      1.420  PROFILE=  1  WSEL BASED ON X5 CARD
NOTE    SECNO=      1.420  PROFILE=  2  WSEL BASED ON X5 CARD
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K/14PRINT

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
17.505	305.	1534.	10.0	1282.5	1281.5	1.0
17.588	338.	2891.	5.3	1284.7	1284.7	.0
17.662	250.	2027.	7.6	1285.0	1284.9	.1
17.783	143.	1277.	12.1	1286.4	1285.8	.6
17.932	110.	1046.	14.7	1291.4	1290.8	.6
18.042	97.	992.	15.5	1294.4	1294.3	.1
18.061	97.	1133.	13.6	1296.6	1296.4	.2
18.081	185.	2411.	6.4	1299.6	1299.5	.1
18.174	268.	3010.	5.1	1300.2	1300.2	.0
18.269	228.	2349.	6.6	1300.3	1300.2	.1
18.362	212.	2086.	7.4	1300.6	1300.5	.1
18.445	253.	1373.	11.2	1305.2	1305.4	-.2
18.456	255.	2040.	7.5	1308.2	1307.3	.9
18.545	288.	3292.	4.7	1309.2	1308.3	.9
18.575	290.	3326.	4.6	1309.3	1308.4	.9
18.583	301.	3469.	4.4	1309.9	1309.5	.4
18.640	255.	2665.	5.8	1309.8	1309.4	.4
18.734	228.	2302.	6.7	1310.0	1309.7	.3
18.832	215.	2253.	6.8	1310.5	1310.2	.3
18.925	200.	2130.	7.2	1310.8	1310.6	.2
19.018	172.	1517.	10.2	1311.1	1310.9	.2
19.117	120.	1023.	15.0	1312.7	1312.5	.2
19.210	157.	1461.	10.5	1317.1	1317.2	-.1
19.283	109.	896.	16.3	1319.9	1319.9	.0
19.299	109.	1129.	12.9	1322.1	1322.1	.0
19.313	160.	1330.	11.0	1323.3	1323.3	.0
19.418	163.	1343.	10.9	1325.6	1325.6	.0
19.560	130.	1308.	11.2	1328.2	1328.2	.0
19.625	60.	741.	7.7	1330.0	1329.9	.1
19.691	60.	780.	7.3	1331.6	1331.5	.1
19.742	85.	969.	5.9	1332.0	1332.0	.0
19.847	86.	868.	6.6	1332.1	1332.1	.0
19.960	73.	441.	12.9	1332.5	1332.4	.1
19.974	51.	503.	11.3	1333.7	1333.3	.4
19.986	51.	608.	9.4	1335.8	1335.3	.5
20.049	50.	366.	15.6	1338.2	1338.4	-.2
20.144	57.	536.	10.6	1343.4	1343.5	-.1
20.242	71.	561.	10.2	1345.5	1345.5	.0
20.335	73.	640.	8.9	1347.5	1347.4	.1
20.347	51.	521.	10.9	1347.4	1347.2	.2
20.366	51.	560.	10.2	1348.2	1348.0	.2
20.423	114.	796.	7.2	1349.7	1349.6	.1

14PRINT

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	------- FLOODWAY ------- WIDTH	SECTION AREA	MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
20.430	51.	509.	11.2	1349.2	1349.1	.1
20.444	51.	547.	10.4	1350.0	1349.9	.1
20.529	139.	841.	6.8	1352.3	1352.3	.0
20.628	130.	1059.	5.4	1353.3	1353.3	.0
20.725	64.	398.	14.3	1355.9	1356.0	-.1
20.737	51.	372.	15.3	1358.2	1358.2	.0
20.750	51.	490.	11.6	1360.6	1360.6	.0
20.819	78.	458.	12.5	1362.4	1362.4	.0
20.841	78.	545.	10.5	1364.4	1364.4	.0
20.860	156.	852.	6.7	1366.0	1366.0	.0
20.942	250.	850.	6.7	1367.2	1367.3	-.1
21.036	250.	608.	9.4	1371.4	1371.9	-.5
21.127	160.	565.	10.1	1374.6	1374.7	-.1
21.230	225.	653.	8.7	1380.4	1380.4	.0
21.363	166.	986.	5.8	1383.6	1383.4	.2
21.484	225.	647.	8.8	1387.1	1386.5	.6
21.576	225.	815.	7.0	1390.1	1389.2	.9
21.669	225.	686.	8.0	1393.9	1393.4	.5
21.742	200.	832.	6.6	1396.2	1395.2	1.0
21.840	200.	686.	8.0	1397.9	1398.0	-.1
21.895	245.	702.	7.8	1399.7	1399.7	.0
21.933	420.	1566.	3.5	1401.5	1400.9	.6
21.953	421.	812.	6.8	1401.2	1401.1	.1
22.065	410.	1165.	4.7	1404.5	1404.1	.4
22.165	400.	1253.	4.4	1406.0	1405.2	.8
22.273	377.	879.	6.3	1407.6	1406.7	.9
22.410	180.	560.	9.8	1414.1	1414.2	-.1
22.483	160.	1293.	4.3	1416.8	1416.5	.3
22.578	96.	773.	7.1	1417.2	1416.3	.9
22.675	198.	1407.	3.9	1418.7	1418.0	.7
22.794	183.	1176.	4.7	1419.5	1418.6	.9
22.880	169.	776.	7.1	1420.5	1420.0	.5
22.990	136.	643.	8.6	1424.6	1423.6	1.0
23.097	132.	561.	9.8	1430.6	1429.9	.7
23.168	629.	1892.	2.9	1433.4	1433.1	.3
23.253	45.	251.	13.6	1434.5	1434.5	.0
23.334	67.	355.	9.6	1440.4	1440.4	.0
23.416	59.	318.	10.7	1443.8	1443.8	.0
23.514	57.	365.	9.3	1448.1	1448.1	.0
23.544	55.	309.	11.0	1448.9	1448.9	.0
23.555	63.	494.	6.9	1452.6	1452.6	.0
23.591	75.	478.	7.1	1453.1	1453.1	.0

KC/4PRINT

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
23.691	65.	368.	9.2	1455.2	1455.2	.0
23.815	86.	521.	8.4	1459.0	1459.0	.0
23.912	76.	619.	8.6	1461.0	1461.0	.0
23.989	99.	835.	6.3	1462.6	1462.6	.0
24.086	72.	708.	7.5	1463.4	1463.4	.0
24.096	72.	800.	6.6	1464.7	1464.7	.0
24.106	100.	922.	5.7	1465.0	1465.2	-.2
24.195	100.	1135.	4.7	1465.7	1465.7	.0
24.322	140.	1776.	3.0	1466.2	1465.9	.3
24.444	153.	1144.	4.6	1466.4	1466.0	.4
24.542	210.	647.	8.2	1467.3	1466.3	1.0
24.635	120.	494.	10.7	1472.0	1472.0	.0
24.738	264.	935.	5.6	1477.8	1476.9	.9
24.838	382.	787.	6.6	1481.0	1480.3	.7
24.943	440.	1411.	3.7	1484.3	1483.4	.9
25.048	400.	676.	7.7	1487.7	1487.3	.4
25.163	235.	927.	5.3	1493.1	1492.2	.9
25.262	273.	1082.	4.5	1495.0	1494.0	1.0
25.374	98.	427.	11.5	1500.2	1499.4	.8
25.434	66.	368.	13.3	1504.2	1504.0	.2
25.500	80.	698.	7.0	1507.6	1507.7	-.1
25.523	80.	962.	5.1	1508.2	1508.0	.2
25.534	73.	378.	12.9	1510.8	1510.8	.0
25.551	73.	485.	10.1	1512.2	1512.2	.0
25.557	80.	439.	11.2	1512.1	1512.1	.0
25.561	101.	760.	3.8	1514.4	1514.4	.0
25.680	100.	500.	5.4	1514.8	1514.7	.1
25.786	100.	276.	9.1	1516.3	1516.3	.0
25.947	100.	388.	5.9	1521.9	1521.1	.8
26.058	73.	309.	7.1	1523.8	1523.5	.3
26.152	70.	352.	5.7	1525.7	1525.0	.7
26.265	87.	219.	8.7	1528.0	1528.1	-.1
26.372	97.	374.	4.5	1531.3	1531.3	.0
26.492	90.	511.	3.1	1532.1	1532.1	.0
26.582	80.	544.	2.4	1532.4	1532.2	.2
26.673	60.	146.	8.9	1535.0	1534.0	1.0
26.784	50.	123.	8.9	1546.3	1546.2	.1
26.883	50.	391.	2.6	1547.9	1547.3	.6
26.984	50.	273.	3.3	1548.1	1547.3	.8
27.060	29.	90.	10.0	1559.5	1559.5	.0
27.166	39.	182.	3.3	1562.2	1562.2	.0
27.294	50.	233.	1.7	1562.5	1562.5	.0

14PRINT

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
-19.560	130.	1308.	11.2	1328.2	1328.2	.0
.029	131.	683.	13.9	1329.5	1329.4	.1
.112	187.	1603.	5.9	1332.8	1332.9	-.1
.198	200.	1459.	6.5	1333.3	1333.3	.0
.288	151.	745.	12.8	1333.3	1333.3	.0
.398	182.	1139.	8.3	1337.3	1337.3	.0
.482	191.	829.	11.5	1341.7	1342.4	-.7
.575	210.	1294.	7.3	1344.8	1343.8	1.0
.697	160.	1221.	7.7	1346.0	1345.1	.9
.826	160.	776.	12.1	1348.1	1348.3	-.2
.945	160.	1224.	7.7	1352.4	1352.1	.3
1.035	160.	1119.	8.4	1353.6	1352.9	.7
1.121	160.	1387.	6.8	1355.2	1354.2	1.0
1.204	160.	867.	10.8	1355.7	1355.4	.3
1.315	155.	1341.	6.8	1359.8	1359.3	.5
1.420	400.	1102.	7.6	1361.6	1361.0	.6

14PRINT

CC_FWFP.OUT

(HEC-2 CLOMR AS-BUILT FLOODWAY MODEL)

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**********************************************
*  HEC-2 WATER SURFACE PROFILES              *
*                                            *
*  Version   4.6.2;  May 1991                *
*                                            *
*  RUN DATE    20OCT04     TIME   13:21:27   *
**********************************************
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**************************************
*  U.S. ARMY CORPS OF ENGINEERS      *
*  HYDROLOGIC ENGINEERING CENTER     *
*  609 SECOND STREET, SUITE D        *
*  DAVIS, CALIFORNIA 95616-4687      *
*          (916) 756-1104            *
**************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X           X     X
X     X  X        X                       X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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1471PRINT

THIS RUN EXECUTED 20OCT04 13:21:27

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**********************************************
 HEC-2 WATER SURFACE PROFILES

 Version  4.6.2;  May 1991
**********************************************


T1      CAVE CREEK 100-YEAR FLOODPLAIN AND FLOODWAY
T2      PREPARED BY: J2 ENGINEERING AND ENVIRONMENTAL DESIGN
T3      OCTOBER 2004

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0        2         0         0         0         0         0         0   1281.38         0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       1        0        -1         0         0         0         0         0         0         0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    150          0        200

QT        2      15400      15400
NC    0.030      0.030      0.030         .1          .3

    0.00 1290.34   13.19  1290.0   28.58  1289.7   32.78  1289.5   49.99
    62.43 1288.15   72.94  1288.1   75.17  1287.5   87.70  1286.8  108.03
    113.23  1286.1  130.18 1285.51  138.72 1285.46  149.07 1285.04  156.33
    160.21 1284.78  166.86 1284.63  170.99 1284.55  173.25  1284.5  178.00
    185.09  1283.8  190.81  1283.6  194.90  1283.1  202.78  1282.3  210.35
    215.13  1280.9  229.21 1280.71  231.97  1280.0  240.64 1279.59  246.89
    248.61  1279.2  250.91  1278.9  254.66  1278.1  264.11 1277.83  267.10
    291.59  1274.9  299.97 1274.22  307.91  1270.8  317.44 1269.30  325.76
    329.88  1270.8  338.51  1270.8  342.59 1272.92  346.64  1273.9  352.3
    361.27 1275.23  365.01  1275.8  370.57  1276.5  375.46 1277.75  385.03
    386.26  1278.2  388.45  1278.5  391.52 1279.14  396.95 1279.13  401.44
    406.93  1279.3  413.63  1279.4  420.88 1279.42  428.75  1279.4  430.32
    435.26 1279.18  440.74 1279.10  443.47  1279.1  445.35 1278.91  450.89
    466.80  1279.3  470.43  1279.4  480.39  1279.5  492.10 1279.59  494.53
    495.49 1279.89  503.95  1279.9  505.38  1280.1  511.66 1280.19  515.40
    515.46 1280.28  521.25 1280.44  526.11  1280.5  529.15 1281.04  552.41
    563.12  1281.6  572.10  1281.7  577.62  1281.9  585.95 1281.99  590.96
    599.38  1282.1  599.69  1282.1 606.01 1282.26  622.53  1282.4  627.45
    634.53 1282.40  640.84 1282.48  650.41  1282.5  660.89  1282.5  674.97
    679.65 1282.75  691.25

   X117.494       97  254.66  396.95    0.00    0.00    0.00       0       0
   GR1290.5     0.00 1290.34   13.19  1290.0   28.58  1289.7   32.78  1289.5   49.
   GR1288.9    62.43 1288.15   72.94  1288.1   75.17  1287.5   87.70  1286.8  108.
   GR1286.5   113.23  1286.1  130.18 1285.51  138.72 1285.46  149.07 1285.04  156.
   GR1285.0   160.21 1284.78  166.86 1284.63  170.99 1284.55  173.25  1284.5  178.
   GR1284.2   185.09  1283.8  190.81  1283.6  194.90  1283.1  202.78  1282.3  210.
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14PRINT

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GR1281.8  215.13  1280.9  229.21 1280.71  231.97  1280.0  240.64 1279.59  246.
GR1279.4  248.61  1279.2  250.91  1278.9  254.66  1278.1  264.11 1277.83  267.
GR1275.5  291.59  1274.9  299.97 1274.22  307.91  1270.8  317.44 1269.30  325.
GR1269.4  329.88  1270.8  338.51  1270.8  342.59 1272.92  346.64  1273.9  352.
GR1274.8  361.27 1275.23  365.01  1275.8  370.57  1276.5  375.46 1277.75  385.
GR1277.9  386.26  1278.2  388.45  1278.5  391.52 1279.14  396.95 1279.13  401.
GR1279.1  406.93  1279.3  413.63  1279.4  420.88 1279.42  428.75  1279.4  430.
GR1279.3  435.26 1279.18  440.74 1279.10  443.47  1279.1  445.35 1278.91  450.
GR1279.2  466.80  1279.3  470.43  1279.4  480.39  1279.5  492.10 1279.59  494.
GR1279.6  495.49 1279.89  503.95  1279.9  505.38  1280.1  511.66 1280.19  515.
GR1280.2  515.46 1280.28  521.25 1280.44  526.11  1280.5  529.15 1281.04  552.
GR1281.3  563.12  1281.6  572.10  1281.7  577.62  1281.9  585.95 1281.99  590.
GR1282.1  599.38  1282.1  599.69  1282.1  606.01 1282.26  622.53  1282.4  627.
GR1282.4  634.53 1282.40  640.84 1282.48  650.41  1282.5  660.89  1282.5  674.
GR1282.6  679.65 1282.75  691.25

ET                          4.1      38      283
X1   17.503        56     64.01   255.09       24        64        44
GR   1284.7      0.00    1285.0     4.08   1285.3     10.09    1285.7     18.43    1285.8     20.87
GR   1283.6     25.04    1282.2    27.31   1281.6     33.94    1280.9     40.06   1280.45     46.45
GR   1279.6     57.95   1279.37    59.31   1279.3     61.00   1279.00     64.01   1277.60     78.59
GR   1277.2     85.39    1275.4   104.11   1275.0    108.31    1274.4    113.57    1273.6    120.64
GR   1273.1    126.58    1272.7   131.47   1271.9    137.13    1271.0    146.35    1269.5    149.74
GR   1270.4    156.11    1269.0   164.08   1273.6    173.23    1274.9    180.53    1275.9    191.70
GR   1277.7    204.88    1277.7   214.39   1277.8    221.14    1277.9    227.01   1278.15    237.84
GR   1278.6    245.96   1279.02   255.09   1279.1    262.64   1279.41    271.88    1280.0    279.55
GR   1280.4    287.61    1280.6   292.06   1281.0    300.28    1281.8    313.54    1282.9    327.50
GR   1283.3    334.66    1283.5   338.36  1283.40    343.53    1283.2    356.00    1283.6    358.10
GR   1284.5    360.85    1285.0   362.85   1285.5    368.03   1286.05    375.26    1286.1    376.43
GR   1286.1    377.14

NH        5       .03     133.9      .013   138.01       .03    244.99      .013    249.01       .03
NH   377.14
ET                          4.1      38      245
X1   17.504        56     64.01   255.09        1         1         1
X4        8    1272.3     133.9    1286      134      1286       138    1271.8     138.01    1278.6
X4   244.99      1286       245    1286      249    1278.8    249.01
GR   1284.7      0.00    1285.0     4.08   1285.3     10.09    1285.7     18.43    1285.8     20.87
GR   1283.6     25.04    1282.2    27.31   1281.6     33.94    1280.9     40.06   1280.45     46.45
GR   1279.6     57.95   1279.37    59.31   1279.3     61.00   1279.00     64.01   1277.60     78.59
GR   1277.2     85.39    1275.4   104.11   1275.0    108.31    1274.4    113.57    1273.6    120.64
GR   1273.1    126.58    1272.7   131.47   1271.9    137.13    1271.0    146.35    1269.5    149.74
GR   1270.4    156.11    1269.0   164.08   1273.6    173.23    1274.9    180.53    1275.9    191.70
GR   1277.7    204.88    1277.7   214.39   1277.8    221.14    1277.9    227.01   1278.15    237.84
GR   1278.6    245.96   1279.02   255.09   1279.1    262.64   1279.41    271.88    1280.0    279.55
GR   1280.4    287.61    1280.6   292.06   1281.0    300.28    1281.8    313.54    1282.9    327.50
GR   1283.3    334.66    1283.5   338.36  1283.40    343.53    1283.2    356.00    1283.6    358.10
GR   1284.5    360.85    1285.0   362.85   1285.5    368.03   1286.05    375.26    1286.1    376.43
GR   1286.1    377.14
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IC714PRINT

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NH      5       .03     133.9   .013    138.01  .03     244.99  .013    249.01  .03
NH  377.14
ET                      4.1     38      283
X1  17.506      56      64.01   255.09  10      10      10
X4      8   1272.3     133.9    1286    134    1286     138  1271.8  138.01  1278.6
X4  244.99      1286    245     1286    249    1278.8  249.01
GR  1284.7      0.00    1285.0  4.08    1285.3  10.09   1285.7  18.43   1285.8  20.87
GR  1283.6      25.04   1282.2  27.31   1281.6  33.94   1280.9  40.06   1280.45 46.45
GR  1279.6      57.95   1279.37 59.31   1279.3  61.00   1279.00 64.01   1277.60 78.59
GR  1277.2      85.39   1275.4  104.11  1275.0  108.31  1274.4  113.57  1273.6  120.64
GR  1273.1      126.58  1272.7  131.47  1271.9  137.13  1271.0  146.35  1269.5  149.74
GR  1270.4      156.11  1269.0  164.08  1273.6  173.23  1274.9  180.53  1275.9  191.70
GR  1277.7      204.88  1277.7  214.39  1277.8  221.14  1277.9  227.01  1278.15 237.84
GR  1278.6      245.96  1279.02 255.09  1279.1  262.64  1279.41 271.88  1280.0  279.55
GR  1280.4      287.61  1280.6  292.06  1281.0  300.28  1281.8  313.54  1282.9  327.50
GR  1283.3      334.66  1283.5  338.36  1283.40 343.53  1283.2  356.00  1283.6  358.10
GR  1284.5      360.85  1285.0  362.85  1285.5  368.03  1286.05 375.26  1286.1  376.43
GR  1286.1      377.14

NC      .03     .03     .03     .1      .3
ET                      4.1     38      283
X1  17.507      56      64.01   255.09  1       1       1
GR  1284.7      0.00    1285.0  4.08    1285.3  10.09   1285.7  18.43   1285.8  20.87
GR  1283.6      25.04   1282.2  27.31   1281.6  33.94   1280.9  40.06   1280.45 46.45
GR  1279.6      57.95   1279.37 59.31   1279.3  61.00   1279.00 64.01   1277.60 78.59
GR  1277.2      85.39   1275.4  104.11  1275.0  108.31  1274.4  113.57  1273.6  120.64
GR  1273.1      126.58  1272.7  131.47  1271.9  137.13  1271.0  146.35  1269.5  149.74
GR  1270.4      156.11  1269.0  164.08  1273.6  173.23  1274.9  180.53  1275.9  191.70
GR  1277.7      204.88  1277.7  214.39  1277.8  221.14  1277.9  227.01  1278.15 237.84
GR  1278.6      245.96  1279.02 255.09  1279.1  262.64  1279.41 271.88  1280.0  279.55
GR  1280.4      287.61  1280.6  292.06  1281.0  300.28  1281.8  313.54  1282.9  327.50
GR  1283.3      334.66  1283.5  338.36  1283.40 343.53  1283.2  356.00  1283.6  358.10
GR  1284.5      360.85  1285.0  362.85  1285.5  368.03  1286.05 375.26  1286.1  376.43
GR  1286.1      377.14

NC      .04     .04     .04
ET                      4.1     680     975
X1  17.588      90      777.21  891.58  401.5   466.5   429.5
GR  1289.7      448.92  1289.5  455.02  1289.2  463.16  1288.8  476.55  1288.6  481.23
GR  1288.2      495.23  1287.9  499.36  1287.7  502.66  1286.8  519.69  1286.44 526.44
GR  1286.3      528.93  1286.07 534.34  1285.01 564.32  1284.6  567.56  1284.4  572.51
GR  1283.8      586.10  1283.0  607.82  1282.83 612.83  1282.8  618.43  1282.70 621.23
GR  1281.8      628.36  1281.24 633.11  1280.23 640.75  1279.0  646.18  1277.5  652.83
GR  1277.1      655.65  1276.12 660.63  1276.7  664.30  1278.24 669.50  1279.3  673.03
GR  1280.3      679.78  1280.20 691.76  1279.76 696.56  1279.5  700.35  1279.0  708.17
GR  1280.0      711.96  1281.1  716.71  1283.1  726.72  1282.9  733.34  1282.70 742.12
GR  1282.0      757.50  1281.9  758.41  1281.23 764.62  1279.37 769.42  1278.3  771.93
GR  1275.7      777.21  1272.01 781.11  1270.46 782.59  1270.3  792.38  1272.04 805.81
GR  1273.9      810.45  1274.06 813.15  1275.2  824.66  1275.07 841.44  1274.68 844.62
GR  1274.5      845.89  1273.5  855.28  1273.3  860.81  1273.99 866.86  1274.3  869.68
GR  1275.2      876.52  1275.3  878.25  1275.75 882.55  1275.9  884.28  1276.5  891.58
```

1474PRINT

GR	1276.2	901.96	1275.36	907.63	1274.4	913.63	1273.5	919.39	1272.60	924.50
GR	1272.5	944.50	1272.6	949.81	1272.67	956.64	1272.95	971.10	1276.89	987.42
GR	1279.5	998.24	1279.9	1000.55	1280.31	1003.08	1280.76	1005.67	1282.7	1016.43
GR	1283.5	1020.86	1284.8	1027.20	1285.2	1029.04	1286.64	1036.70	1287.31	1040.07
GR	1287.6	1042.16	1289.5	1055.39	1289.83	1061.26	1289.9	1063.08	1290.37	1073.21
ET			4.1	566	815					
X1	17.662	88	640.76	755.75	380	400	391	0	0	0
GR	1289.9	371.54	1290.7	405.92	1290.8	418.53	1290.8	451.28	1290.6	464.89
GR	1290.4	486.01	1289.77	499.54	1289.5	506.17	1288.42	511.20	1287.0	517.93
GR	1285.7	523.90	1284.4	529.98	1283.5	534.57	1281.13	540.90	1278.58	550.55
GR	1278.4	552.45	1278.6	557.56	1279.20	566.03	1279.3	566.68	1279.2	571.86
GR	1279.0	576.99	1279.3	581.36	1279.2	585.34	1279.0	590.58	1278.9	591.45
GR	1278.5	594.59	1278.35	594.91	1278.1	597.81	1277.7	603.17	1277.82	606.91
GR	1277.7	620.54	1277.3	640.76	1276.9	644.13	1276.24	649.39	1275.93	651.79
GR	1276.1	654.64	1275.7	662.95	1275.0	665.16	1272.80	675.92	1272.5	677.18
GR	1272.3	683.99	1272.2	688.57	1271.99	691.66	1271.5	697.71	1271.2	701.57
GR	1272.0	705.83	1272.09	707.25	1272.39	718.75	1272.5	722.02	1273.46	732.38
GR	1274.3	735.98	1275.7	742.50	1277.33	746.67	1278.8	755.75	1278.88	762.01
GR	1279.0	765.49	1279.02	768.09	1279.1	772.41	1279.3	778.73	1279.00	788.62
GR	1278.9	792.58	1277.8	799.64	1277.5	804.68	1277.19	816.63	1279.47	824.98
GR	1281.5	832.38	1281.60	832.83	1282.70	840.48	1284.36	851.55	1286.67	866.44
GR	1286.8	867.45	1288.42	879.28	1288.92	883.05	1289.18	888.94	1289.3	892.69
GR	1289.7	900.41	1290.6	906.26	1291.2	911.29	1291.44	915.20	1292.34	924.80
GR	1293.7	933.86	1293.9	935.63	1295.1	946.68	1295.77	952.77	1295.2	961.27
GR	1294.9	969.71	1294.7	972.70	1294.19	980.75				
ET			4.1	9921	10064					
X1	17.783	18.	9921.	10064.	540.	500.	639.			
GR	1295.2	9812.	1294.	9837.	1291.3	9861.	1286.9	9895.	1280.5	9921.
GR	1276.8	9938.	1278.3	9954.	1277.6	9973.	1275.4	10000.	1276.3	10019.
GR	1277.4	10033.	1277.7	10045.	1281.1	10064.	1281.3	10074.	1284.6	10097.
GR	1289.8	10122.	1291.5	10143.	1291.9	10153.				
ET			4.1	9956	10066					
X1	17.932	23	9956	10066	790	780	787			
GR	1294.8	9675	1294.7	9732	1295.5	9750	1293.6	9766	1297.5	9792
GR	1297.5	9837	1298.3	9869	1291.9	9896	1289.7	9956	1283.6	9966
GR	1283.5	9971	1277.9	9986	1278.2	10000	1278.2	10006	1279.5	10008
GR	1279.9	10022	1280.2	10032	1285.5	10054	1290.2	10066	1290.6	10083
GR	1298.5	10131	1299.7	10159	1299.7	10193				

K/T4PRINT

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1


CCHV=     .100 CEHV=     .300
*SECNO 17.503
    17.503     12.38   1281.38   1281.36   1281.38   1283.88      2.50       .00       .00   1279.00
   15400.0     172.1   14839.3     388.6      33.8    1151.9      69.4        .0        .0   1279.02
       .00      5.08     12.88      5.60      .030      .030      .030      .000   1269.00     35.86
   .006263       24.       44.       64.         0         4         0       .00    270.71    306.58


1490 NH CARD USED
*SECNO 17.504

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    17.504     12.55   1281.55   1281.55       .00   1284.02      2.47       .01       .00   1279.00
   15400.0     202.8   14749.3     447.9      38.7    1149.1      78.3        .0        .0   1279.02
       .00      5.24     12.84      5.72      .030      .026      .030      .000   1269.00     34.40
   .006007         1.        1.        1.        20         5         0       .00    271.25    309.36


1490 NH CARD USED
*SECNO 17.506

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

    17.506     13.25   1282.25       .00       .00   1284.13      1.88       .05       .06   1279.00
   15400.0     318.0   14424.8     657.2      61.9    1279.5     119.6        .3        .1   1279.02
       .00      5.14     11.27      5.49      .030      .025      .030      .000   1269.00     27.24
   .004043       10.       10.       10.        15         0         0       .00    288.79    319.16


CCHV=     .100 CEHV=     .300
*SECNO 17.507
    17.507     13.60   1282.60       .00       .00   1284.16      1.57       .00       .03   1279.00
   15400.0     367.9   14290.0     742.1      74.8    1383.6     142.8        .4        .1   1279.02
       .00      4.92     10.33      5.20      .030      .030      .030      .000   1269.00     26.67
   .003153         1.        1.        1.         3         0         0       .00    296.92    323.59
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1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 17.588

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.80

17.588	14.26	1284.56	.00	.00	1284.98	.42	.70	.11	1275.70
15400.0	2264.0	6870.0	6266.0	715.1	1232.7	1166.9	23.9	3.8	1276.50
.02	3.17	5.57	5.37	.040	.040	.040	.000	1270.30	568.58
.000978	402.	430.	467.	2	0	0	.00	457.44	1026.02

*SECNO 17.662

17.662	13.67	1284.87	.00	.00	1285.56	.70	.50	.08	1277.30
15400.0	3482.1	9337.1	2580.7	660.0	1243.1	511.7	48.7	7.3	1278.80
.04	5.28	7.51	5.04	.040	.040	.040	.000	1271.20	527.79
.001736	380.	391.	400.	2	0	0	.00	327.03	854.82

*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .51

17.783	10.26	1285.66	.00	.00	1287.89	2.23	1.87	.46	1280.50
15400.0	303.2	14358.6	738.2	54.0	1168.4	109.5	74.4	10.8	1281.10
.05	5.61	12.29	6.74	.040	.040	.040	.000	1275.40	9900.05
.006706	540.	639.	500.	2	0	0	.00	202.04	10102.09

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

17.932	13.03	1290.93	1290.58	.00	1294.60	3.67	6.28	.43	1289.70
15400.0	54.2	15324.0	21.8	20.6	994.6	9.3	95.7	14.1	1290.20
.07	2.64	15.41	2.34	.040	.040	.040	.000	1277.90	9922.50
.009648	790.	787.	780.	5	11	0	.00	162.50	10085.00

K/14PRINT

T1
T2
T3

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	0	3	0	0	0	0	0	0	1282.38	0

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15	0	-1	0	0	0	0	0	0	0

IC/14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 2

CCHV= .100 CEHV= .300
*SECNO 17.503

3470 ENCROACHMENT STATIONS= 38.0 283.0 TYPE= 1 TARGET= 245.000

17.503	13.38	1282.38	.00	1281.38	1284.14	1.76	.00	.00	1279.00
15400.0	315.6	14586.6	497.8	59.6	1343.0	82.4	.0	.0	1279.02
.00	5.30	10.86	6.04	.030	.030	.030	.000	1269.00	38.00
.003628	24.	44.	64.	0	0	0	.00	245.00	283.00

1490 NH CARD USED
*SECNO 17.504
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 38.0 245.0 TYPE= 1 TARGET= 207.000

17.504	12.90	1281.90	.00	1281.55	1284.35	2.46	.00	.21	1279.00
15400.0	276.0	15124.0	.0	47.1	1194.0	.0	.0	.0	100000.00
.00	5.86	12.67	.00	.030	.027	.000	.000	1269.00	38.00
.005790	1.	1.	1.	3	0	0	.00	205.79	244.99

1490 NH CARD USED
*SECNO 17.506

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.40

3470 ENCROACHMENT STATIONS= 38.0 283.0 TYPE= 1 TARGET= 245.000

KCI4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
17.506	13.94	1282.94	.00	1282.25	1284.49	1.55	.04	.09	1279.00
15400.0	401.1	14406.7	592.2	74.0	1409.8	97.9	.4	.1	1279.02
.00	5.42	10.22	6.05	.030	.025	.030	.000	1269.00	38.00
.002936	10.	10.	10.	5	0	0	.00	242.44	283.00

CCHV= .100 CEHV= .300
*SECNO 17.507

3470 ENCROACHMENT STATIONS= 38.0 283.0 TYPE= 1 TARGET= 245.000

17.507	14.10	1283.10	.00	1282.60	1284.50	1.40	.00	.01	1279.00
15400.0	409.5	14395.4	595.1	78.4	1481.0	102.5	.4	.1	1279.02
.00	5.23	9.72	5.80	.030	.030	.030	.000	1269.00	38.00
.002550	1.	1.	1.	2	0	0	.00	245.00	283.00

*SECNO 17.588

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.40

3470 ENCROACHMENT STATIONS= 680.0 975.0 TYPE= 1 TARGET= 295.000

17.588	14.44	1284.74	.00	1284.56	1285.35	.62	.77	.08	1275.70
15400.0	1249.4	8121.5	6029.1	368.3	1253.0	926.5	21.4	2.7	1276.50
.02	3.39	6.48	6.51	.040	.040	.040	.000	1270.30	680.00
.001294	402.	430.	467.	2	0	0	.00	295.00	975.00

*SECNO 17.662

3470 ENCROACHMENT STATIONS= 566.0 815.0 TYPE= 1 TARGET= 249.000

17.662	13.99	1285.19	.00	1284.87	1286.02	.83	.61	.06	1277.30
15400.0	3074.2	10232.2	2093.6	520.2	1280.7	393.7	42.7	5.2	1278.80
.03	5.91	7.99	5.32	.040	.040	.040	.000	1271.20	566.00
.001887	380.	391.	400.	2	0	0	.00	249.00	815.00

*SECNO 17.783

1<71 4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

3470 ENCROACHMENT STATIONS= 9921.0 10064.0 TYPE= 1 TARGET= 143.000

17.783	10.71	1286.11	.00	1285.66	1288.53	2.42	2.03	.48	1280.50
15400.0	.0	15400.0	.0	.0	1233.7	.0	66.7	7.9	100000.00
.05	.00	12.48	.00	.000	.040	.000	.000	1275.40	9921.00
.007078	540.	639.	500.	2	0	0	.00	143.00	10064.00

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9956.0 10066.0 TYPE= 1 TARGET= 110.000

17.932	13.60	1291.50	.00	1290.93	1294.79	3.29	6.00	.26	1289.70
15400.0	.0	15400.0	.0	.0	1057.5	.0	87.4	10.1	100000.00
.06	.00	14.56	.00	.000	.040	.000	.000	1277.90	9956.00
.008229	790.	787.	780.	3	0	0	.00	110.00	10066.00

1<7L4PRINT

THIS RUN EXECUTED 20OCT04 13:21:27

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCTOBER 2004

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10WKS	VCH	AREA	.01K
	17.503	.00	.00	.00	1269.00	15400.00	1281.38	1281.36	1283.88	62.63	12.88	1255.17	1945.97
	17.503	.00	.00	.00	1269.00	15400.00	1282.38	.00	1284.14	36.28	10.86	1484.98	2556.74
*	17.504	1.00	.00	.00	1269.00	15400.00	1281.55	1281.55	1284.02	60.07	12.84	1266.01	1986.93
	17.504	1.00	.00	.00	1269.00	15400.00	1281.90	.00	1284.35	57.90	12.67	1241.12	2023.81
	17.506	10.00	.00	.00	1269.00	15400.00	1282.25	.00	1284.13	40.43	11.27	1460.99	2422.01
*	17.506	10.00	.00	.00	1269.00	15400.00	1282.94	.00	1284.49	29.36	10.22	1581.75	2841.90
	17.507	1.00	.00	.00	1269.00	15400.00	1282.60	.00	1284.16	31.53	10.33	1601.15	2742.50
	17.507	1.00	.00	.00	1269.00	15400.00	1283.10	.00	1284.50	25.50	9.72	1661.94	3049.45
*	17.588	429.50	.00	.00	1270.30	15400.00	1284.56	.00	1284.98	9.78	5.57	3114.73	4925.48
*	17.588	429.50	.00	.00	1270.30	15400.00	1284.74	.00	1285.35	12.94	6.48	2547.81	4281.48
	17.662	391.00	.00	.00	1271.20	15400.00	1284.87	.00	1285.56	17.36	7.51	2414.78	3696.08
	17.662	391.00	.00	.00	1271.20	15400.00	1285.19	.00	1286.02	18.87	7.99	2194.64	3544.84
*	17.783	639.00	.00	.00	1275.40	15400.00	1285.66	.00	1287.89	67.06	12.29	1332.01	1880.50
*	17.783	639.00	.00	.00	1275.40	15400.00	1286.11	.00	1288.53	70.78	12.48	1233.66	1830.50
	17.932	787.00	.00	.00	1277.90	15400.00	1290.93	1290.58	1294.60	96.48	15.41	1024.46	1567.84
	17.932	787.00	.00	.00	1277.90	15400.00	1291.50	.00	1294.79	82.29	14.56	1057.50	1697.61

K:\14PRINT

OCTOBER 2004

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	17.503	15400.00	1281.38	.00	.00	.00	270.71	.00
	17.503	15400.00	1282.38	1.00	.00	1.00	245.00	.00
*	17.504	15400.00	1281.55	.00	.17	.00	271.25	1.00
	17.504	15400.00	1281.90	.35	-.48	.35	205.79	1.00
	17.506	15400.00	1282.25	.00	.70	.00	288.79	10.00
*	17.506	15400.00	1282.94	.69	1.04	.69	242.44	10.00
	17.507	15400.00	1282.60	.00	.35	.00	296.92	1.00
	17.507	15400.00	1283.10	.51	.17	.51	245.00	1.00
*	17.588	15400.00	1284.56	.00	1.96	.00	457.44	429.50
*	17.588	15400.00	1284.74	.18	1.64	.18	295.00	429.50
	17.662	15400.00	1284.87	.00	.31	.00	327.03	391.00
	17.662	15400.00	1285.19	.33	.46	.33	249.00	391.00
*	17.783	15400.00	1285.66	.00	.79	.00	202.04	639.00
*	17.783	15400.00	1286.11	.46	.92	.46	143.00	639.00
	17.932	15400.00	1290.93	.00	5.27	.00	162.50	787.00
	17.932	15400.00	1291.50	.57	5.39	.57	110.00	787.00

K/14PRINT

SUMMARY OF ERRORS AND SPECIAL NOTES

CAUTION SECNO= 17.504 PROFILE= 1 CRITICAL DEPTH ASSUMED
CAUTION SECNO= 17.504 PROFILE= 1 PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO= 17.504 PROFILE= 1 20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO= 17.506 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 17.588 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 17.588 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 17.783 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO= 17.783 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

K/14PRINT

CC_10YR.OUT

(HEC-2 - 10-YEAR MODEL)

```
**********************************************
*  HEC-2 WATER SURFACE PROFILES              *
*                                            *
*  Version   4.6.2;  May 1991                *
*                                            *
*  RUN DATE    13OCT04    TIME   10:31:26    *
**********************************************
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**************************************
*  U.S. ARMY CORPS OF ENGINEERS      *
*  HYDROLOGIC ENGINEERING CENTER     *
*  609 SECOND STREET, SUITE D        *
*  DAVIS, CALIFORNIA 95616-4687      *
*          (916) 756-1104            *
**************************************
```

```
X     X  XXXXXXX   XXXXX             XXXXX
X     X  X        X     X           X     X
X     X  X        X                       X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

14PRINT

THIS RUN EXECUTED 13OCT04 10:31:26

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**********************************************
 HEC-2 WATER SURFACE PROFILES

 Version  4.6.2;  May 1991
**********************************************


T1      CAVE CREEK 10-YEAR RUN
T2      PREPARED BY: J2 ENGINEERING AND ENVIRONMENTAL DESIGN
T3      OCTOBER 2004

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0         2         0         0         0         0         0         0   1281.38         0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       1         0        -1         0         0         0         0         0         0         0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

     150          0        200

QT         1        8900
NC     0.030       0.030       0.030          .1          .3

     0.00 1290.34   13.19  1290.0   28.58  1289.7   32.78  1289.5   49.99
    62.43 1288.15   72.94  1288.1   75.17  1287.5   87.70  1286.8  108.03
   113.23  1286.1  130.18 1285.51  138.72 1285.46  149.07 1285.04  156.33
   160.21 1284.78  166.86 1284.63  170.99 1284.55  173.25  1284.5  178.00
   185.09  1283.8  190.81  1283.6  194.90  1283.1  202.78  1282.3  210.35
   215.13  1280.9  229.21 1280.71  231.97  1280.0  240.64 1279.59  246.89
   248.61  1279.2  250.91  1278.9  254.66  1278.1  264.11 1277.83  267.10
   291.59  1274.9  299.97 1274.22  307.91  1270.8  317.44 1269.30  325.76
   329.88  1270.8  338.51  1270.8  342.59 1272.92  346.64  1273.9  352.3
   361.27 1275.23  365.01  1275.8  370.57  1276.5  375.46 1277.75  385.03
   386.26  1278.2  388.45  1278.5  391.52 1279.14  396.95 1279.13  401.44
   406.93  1279.3  413.63  1279.4  420.88 1279.42  428.75  1279.4  430.32
   435.26 1279.18  440.74 1279.10  443.47  1279.1  445.35 1278.91  450.89
   466.80  1279.3  470.43  1279.4  480.39  1279.5  492.10 1279.59  494.53
   495.49 1279.89  503.95  1279.9  505.38  1280.1  511.66 1280.19  515.40
   515.46 1280.28  521.25 1280.44  526.11  1280.5  529.15 1281.04  552.41
   563.12  1281.6  572.10  1281.7  577.62  1281.9  585.95 1281.99  590.96
   599.38  1282.1  599.69  1282.1  606.01 1282.26  622.53  1282.4  627.45
   634.53 1282.40  640.84 1282.48  650.41  1282.5  660.89  1282.5  674.97
   679.65 1282.75  691.25

  X117.494       97  254.66  396.95    0.00    0.00    0.00       0       0
  GR1290.5    0.00 1290.34   13.19  1290.0   28.58  1289.7   32.78  1289.5   49.
  GR1288.9   62.43 1288.15   72.94  1288.1   75.17  1287.5   87.70  1286.8  108.
  GR1286.5  113.23  1286.1  130.18 1285.51  138.72 1285.46  149.07 1285.04  156.
  GR1285.0  160.21 1284.78  166.86 1284.63  170.99 1284.55  173.25  1284.5  178.
  GR1284.2  185.09  1283.8  190.81  1283.6  194.90  1283.1  202.78  1282.3  210.
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ICI 4PRINT

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 GR1281.8  215.13  1280.9  229.21 1280.71  231.97  1280.0  240.64 1279.59  246.
 GR1279.4  248.61  1279.2  250.91  1278.9  254.66  1278.1  264.11 1277.83  267.
 GR1275.5  291.59  1274.9  299.97 1274.22  307.91  1270.8  317.44 1269.30  325.
 GR1269.4  329.88  1270.8  338.51  1270.8  342.59 1272.92  346.64  1273.9  352.
 GR1274.8  361.27 1275.23  365.01  1275.8  370.57  1276.5  375.46 1277.75  385.
 GR1277.9  386.26  1278.2  388.45  1278.5  391.52 1279.14  396.95 1279.13  401.
 GR1279.1  406.93  1279.3  413.63  1279.4  420.88 1279.42  428.75  1279.4  430.
 GR1279.3  435.26 1279.18  440.74 1279.10  443.47  1279.1  445.35 1278.91  450.
 GR1279.2  466.80  1279.3  470.43  1279.4  480.39  1279.5  492.10 1279.59  494.
 GR1279.6  495.49 1279.89  503.95  1279.9  505.38  1280.1  511.66 1280.19  515.
 GR1280.2  515.46 1280.28  521.25 1280.44  526.11  1280.5  529.15 1281.04  552.
 GR1281.3  563.12  1281.6  572.10  1281.7  577.62  1281.9  585.95 1281.99  590.
 GR1282.1  599.38  1282.1  599.69  1282.1  606.01 1282.26  622.53  1282.4  627.
 GR1282.4  634.53 1282.40  640.84 1282.48  650.41  1282.5  660.89  1282.5  674.
 GR1282.6  679.65 1282.75  691.25

ET                          4.1       64       256
X1   17.503         56     64.01    255.09        24         64         44
GR   1284.7         0.00   1285.0    4.08    1285.3      10.09     1285.7     18.43     1285.8     20.87
GR   1283.6        25.04   1282.2   27.31    1281.6      33.94     1280.9     40.06     1280.45    46.45
GR   1279.6        57.95   1279.37  59.31    1279.3      61.00     1279.00    64.01     1277.60    78.59
GR   1277.2        85.39   1275.4   104.11   1275.0      108.31    1274.4     113.57    1273.6     120.64
GR   1273.1       126.58   1272.7   131.47   1271.9      137.13    1271.0     146.35    1269.5     149.74
GR   1270.4       156.11   1269.0   164.08   1273.6      173.23    1274.9     180.53    1275.9     191.70
GR   1277.7       204.88   1277.7   214.39   1277.8      221.14    1277.9     227.01    1278.15    237.84
GR   1278.6       245.96   1279.02  255.09   1279.1      262.64    1279.41    271.88    1280.0     279.55
GR   1280.4       287.61   1280.6   292.06   1281.0      300.28    1281.8     313.54    1282.9     327.50
GR   1283.3       334.66   1283.5   338.36   1283.40     343.53    1283.2     356.00    1283.6     358.10
GR   1284.5       360.85   1285.0   362.85   1285.5      368.03    1286.05    375.26    1286.1     376.43
GR   1286.1       377.14


NH         5        .03    133.9      .013    138.01       .03     244.99       .013    249.01       .03
NH   377.14
ET                          4.1       64       256
X1   17.504         56     64.01    255.09         1          1          1
X4         8     1272.3    133.9     1286       134       1286        138     1271.8     138.01     1278.6
X4   244.99        1286      245     1286       249     1278.8     249.01
GR   1284.7         0.00   1285.0    4.08    1285.3      10.09     1285.7     18.43     1285.8     20.87
GR   1283.6        25.04   1282.2   27.31    1281.6      33.94     1280.9     40.06     1280.45    46.45
GR   1279.6        57.95   1279.37  59.31    1279.3      61.00     1279.00    64.01     1277.60    78.59
GR   1277.2        85.39   1275.4   104.11   1275.0      108.31    1274.4     113.57    1273.6     120.64
GR   1273.1       126.58   1272.7   131.47   1271.9      137.13    1271.0     146.35    1269.5     149.74
GR   1270.4       156.11   1269.0   164.08   1273.6      173.23    1274.9     180.53    1275.9     191.70
GR   1277.7       204.88   1277.7   214.39   1277.8      221.14    1277.9     227.01    1278.15    237.84
GR   1278.6       245.96   1279.02  255.09   1279.1      262.64    1279.41    271.88    1280.0     279.55
GR   1280.4       287.61   1280.6   292.06   1281.0      300.28    1281.8     313.54    1282.9     327.50
GR   1283.3       334.66   1283.5   338.36   1283.40     343.53    1283.2     356.00    1283.6     358.10
GR   1284.5       360.85   1285.0   362.85   1285.5      368.03    1286.05    375.26    1286.1     376.43
GR   1286.1       377.14
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1674PRINT

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NH      5       .03     133.9     .013    138.01      .03     244.99     .013    249.01      .03
NH  377.14
ET                      4.1        64      256
X1  17.506         56  64.01    255.09       10       10         10
X4       8    1272.3  133.9      1286      134     1286        138   1271.8  138.01    1278.6
X4  244.99       1286    245      1286      249   1278.8     249.01
GR  1284.7       0.00 1285.0      4.08   1285.3    10.09     1285.7    18.43  1285.8    20.87
GR  1283.6      25.04 1282.2     27.31   1281.6    33.94     1280.9    40.06 1280.45    46.45
GR  1279.6      57.95 1279.37    59.31   1279.3    61.00    1279.00    64.01 1277.60    78.59
GR  1277.2      85.39 1275.4    104.11   1275.0   108.31     1274.4   113.57  1273.6   120.64
GR  1273.1     126.58 1272.7    131.47   1271.9   137.13     1271.0   146.35  1269.5   149.74
GR  1270.4     156.11 1269.0    164.08   1273.6   173.23     1274.9   180.53  1275.9   191.70
GR  1277.7     204.88 1277.7    214.39   1277.8   221.14     1277.9   227.01 1278.15   237.84
GR  1278.6     245.96 1279.02   255.09   1279.1   262.64    1279.41   271.88  1280.0   279.55
GR  1280.4     287.61 1280.6    292.06   1281.0   300.28     1281.8   313.54  1282.9   327.50
GR  1283.3     334.66 1283.5    338.36  1283.40   343.53     1283.2   356.00  1283.6   358.10
GR  1284.5     360.85 1285.0    362.85   1285.5   368.03    1286.05   375.26  1286.1   376.43
GR  1286.1     377.14

NC      .03       .03      .03       .1        .3
ET                      4.1        64       256
X1  17.507         56  64.01    255.09         1        1          1
GR  1284.7       0.00 1285.0      4.08   1285.3    10.09     1285.7    18.43  1285.8    20.87
GR  1283.6      25.04 1282.2     27.31   1281.6    33.94     1280.9    40.06 1280.45    46.45
GR  1279.6      57.95 1279.37    59.31   1279.3    61.00    1279.00    64.01 1277.60    78.59
GR  1277.2      85.39 1275.4    104.11   1275.0   108.31     1274.4   113.57  1273.6   120.64
GR  1273.1     126.58 1272.7    131.47   1271.9   137.13     1271.0   146.35  1269.5   149.74
GR  1270.4     156.11 1269.0    164.08   1273.6   173.23     1274.9   180.53  1275.9   191.70
GR  1277.7     204.88 1277.7    214.39   1277.8   221.14     1277.9   227.01 1278.15   237.84
GR  1278.6     245.96 1279.02   255.09   1279.1   262.64    1279.41   271.88  1280.0   279.55
GR  1280.4     287.61 1280.6    292.06   1281.0   300.28     1281.8   313.54  1282.9   327.50
GR  1283.3     334.66 1283.5    338.36  1283.40   343.53     1283.2   356.00  1283.6   358.10
GR  1284.5     360.85 1285.0    362.85   1285.5   368.03    1286.05   375.26  1286.1   376.43
GR  1286.1     377.14

NC      .04       .04      .04
ET                      4.1       685       972
X1  17.588         90  777.21    891.58    401.5     466.5      429.5
GR  1289.7     448.92 1289.5    455.02   1289.2    463.16     1288.8   476.55  1288.6   481.23
GR  1288.2     495.23 1287.9    499.36   1287.7    502.66     1286.8   519.69 1286.44   526.44
GR  1286.3     528.93 1286.07   534.34   1285.01   564.32     1284.6   567.56  1284.4   572.51
GR  1283.8     586.10 1283.0    607.82   1282.83   612.83     1282.8   618.43 1282.70   621.23
GR  1281.8     628.36 1281.24   633.11   1280.23   640.75     1279.0   646.18  1277.5   652.83
GR  1277.1     655.65 1276.12   660.63   1276.7    664.30    1278.24   669.50  1279.3   673.03
GR  1280.3     679.78 1280.20   691.76   1279.76   696.56     1279.5   700.35  1279.0   708.17
GR  1280.0     711.96 1281.1    716.71   1283.1    726.72     1282.9   733.34 1282.70   742.12
GR  1282.0     757.50 1281.9    758.41   1281.23   764.62    1279.37   769.42  1278.3   771.93
GR  1275.7     777.21 1272.01   781.11   1270.46   782.59     1270.3   792.38 1272.04   805.81
GR  1273.9     810.45 1274.06   813.15   1275.2    824.66    1275.07   841.44 1274.68   844.62
GR  1274.5     845.89 1273.5    855.28   1273.3    860.81    1273.99   866.86  1274.3   869.68
GR  1275.2     876.52 1275.3    878.25  1275.75    882.55     1275.9   884.28  1276.5   891.58
```

1471APRINT

GR	1276.2	901.96	1275.36	907.63	1274.4	913.63	1273.5	919.39	1272.60	924.50
GR	1272.5	944.50	1272.6	949.81	1272.67	956.64	1272.95	971.10	1276.89	987.42
GR	1279.5	998.24	1279.9	1000.55	1280.31	1003.08	1280.76	1005.67	1282.7	1016.43
GR	1283.5	1020.86	1284.8	1027.20	1285.2	1029.04	1286.64	1036.70	1287.31	1040.07
GR	1287.6	1042.16	1289.5	1055.39	1289.83	1061.26	1289.9	1063.08	1290.37	1073.21
ET			4.1	581	800					
X1	17.662	88	640.76	755.75	380	400	391	0	0	0
GR	1289.9	371.54	1290.7	405.92	1290.8	418.53	1290.8	451.28	1290.6	464.89
GR	1290.4	486.01	1289.77	499.54	1289.5	506.17	1288.42	511.20	1287.0	517.93
GR	1285.7	523.90	1284.4	529.98	1283.5	534.57	1281.13	540.90	1278.58	550.55
GR	1278.4	552.45	1278.6	557.56	1279.20	566.03	1279.3	566.68	1279.2	571.86
GR	1279.0	576.99	1279.3	581.36	1279.2	585.34	1279.0	590.58	1278.9	591.45
GR	1278.5	594.59	1278.35	594.91	1278.1	597.81	1277.7	603.17	1277.82	606.91
GR	1277.7	620.54	1277.3	640.76	1276.9	644.13	1276.24	649.39	1275.93	651.79
GR	1276.1	654.64	1275.7	662.95	1275.0	665.16	1272.80	675.92	1272.5	677.18
GR	1272.3	683.99	1272.2	688.57	1271.99	691.66	1271.5	697.71	1271.2	701.57
GR	1272.0	705.83	1272.09	707.25	1272.39	718.75	1272.5	722.02	1273.46	732.38
GR	1274.3	735.98	1275.7	742.50	1277.33	746.67	1278.8	755.75	1278.88	762.01
GR	1279.0	765.49	1279.02	768.09	1279.1	772.41	1279.3	778.73	1279.00	788.62
GR	1278.9	792.58	1277.8	799.64	1277.5	804.68	1277.19	816.63	1279.47	824.98
GR	1281.5	832.38	1281.60	832.83	1282.70	840.48	1284.36	851.55	1286.67	866.44
GR	1286.8	867.45	1288.42	879.28	1288.92	883.05	1289.18	888.94	1289.3	892.69
GR	1289.7	900.41	1290.6	906.26	1291.2	911.29	1291.44	915.20	1292.34	924.80
GR	1293.7	933.86	1293.9	935.63	1295.1	946.68	1295.77	952.77	1295.2	961.27
GR	1294.9	969.71	1294.7	972.70	1294.19	980.75				
ET			4.1	9921	10064					
X1	17.783	18.	9921.	10064.	540.	500.	639.			
GR	1295.2	9812.	1294.	9837.	1291.3	9861.	1286.9	9895.	1280.5	9921.
GR	1276.8	9938.	1278.3	9954.	1277.6	9973.	1275.4	10000.	1276.3	10019.
GR	1277.4	10033.	1277.7	10045.	1281.1	10064.	1281.3	10074.	1284.6	10097.
GR	1289.8	10122.	1291.5	10143.	1291.9	10153.				
ET			4.1	9956	10066					
X1	17.932	23	9956	10066	790	780	787			
GR	1294.8	9675	1294.7	9732	1295.5	9750	1293.6	9766	1297.5	9792
GR	1297.5	9837	1298.3	9869	1291.9	9896	1289.7	9956	1283.6	9966
GR	1283.5	9971	1277.9	9986	1278.2	10000	1278.2	10006	1279.5	10008
GR	1279.9	10022	1280.2	10032	1285.5	10054	1290.2	10066	1290.6	10083
GR	1298.5	10131	1299.7	10159	1299.7	10193				

K71 4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .100 CEHV= .300
*SECNO 17.503

17.503	12.38	1281.38	.00	1281.38	1282.21	.83	.00	.00	1279.00
8900.0	99.4	8576.0	224.6	33.8	1151.9	69.4	.0	.0	1279.02
.00	2.94	7.44	3.24	.030	.030	.030	.000	1269.00	35.86
.002092	24.	44.	64.	0	0	0	.00	270.71	306.58

1490 NH CARD USED
*SECNO 17.504

3265 DIVIDED FLOW

17.504	12.34	1281.34	.00	.00	1282.24	.90	.00	.02	1279.00
8900.0	98.6	8577.1	224.2	32.6	1109.4	67.2	.0	.0	1279.02
.00	3.02	7.73	3.34	.030	.026	.030	.000	1269.00	36.25
.00227B	1.	1.	1.	2	0	0	.00	265.71	305.85

1490 NH CARD USED
*SECNO 17.506

3265 DIVIDED FLOW

17.506	12.37	1281.37	.00	.00	1282.26	.89	.02	.00	1279.00
8900.0	100.5	8571.7	227.8	33.2	1113.6	68.3	.3	.1	1279.02
.00	3.02	7.70	3.34	.030	.026	.030	.000	1269.00	36.05
.00224B	10.	10.	10.	0	0	0	.00	266.29	306.22

CCHV= .100 CEHV= .300
*SECNO 17.507

17.507	12.46	1281.46	.00	.00	1282.27	.81	.00	.01	1279.00
8900.0	106.7	8555.3	238.1	36.3	1168.2	73.8	.3	.1	1279.02
.00	2.94	7.32	3.22	.030	.030	.030	.000	1269.00	35.12
.001987	1.	1.	1.	2	0	0	.00	272.87	307.99

*SECNO 17.588

KC14PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.63

17.588	12.27	1282.57	.00	.00	1282.83	.26	.50	.05	1275.70
8900.0	837.4	4272.3	3790.4	355.8	1005.1	909.4	18.1	3.3	1276.50
.03	2.35	4.25	4.17	.040	.040	.040	.000	1270.30	622.27
.000746	402.	430.	467.	2	0	0	.00	372.50	1015.70

*SECNO 17.662

17.662	11.63	1282.83	.00	.00	1283.28	.45	.40	.06	1277.30
8900.0	1679.4	6029.4	1191.2	439.9	1009.2	323.9	36.3	6.3	1278.80
.05	3.82	5.97	3.68	.040	.040	.040	.000	1271.20	536.35
.001450	380.	391.	400.	2	0	0	.00	305.03	841.38

*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .50

17.783	8.37	1283.77	.00	.00	1285.16	1.39	1.59	.28	1280.50
8900.0	83.6	8611.2	205.1	21.7	898.6	47.0	55.3	9.6	1281.10
.07	3.85	9.58	4.37	.040	.040	.040	.000	1275.40	9907.71
.005787	540.	639.	500.	2	0	0	.00	183.51	10091.22

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

17.932	10.63	1288.53	.00	.00	1290.80	2.28	5.38	.27	1289.70
8900.0	.0	8900.0	.0	.0	735.3	.0	70.7	12.2	1290.20
.09	.00	12.10	.00	.000	.040	.000	.000	1277.90	9957.92
.008207	790.	787.	780.	3	0	0	.00	103.81	10061.73

KCI4PRINT

THIS RUN EXECUTED 13OCT04 10:31:26

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCTOBER 2004

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	17.503	.00	.00	.00	1269.00	B900.00	1281.38	.00	1282.21	20.92	7.44	1255.17	1945.97
	17.504	1.00	.00	.00	1269.00	B900.00	1281.34	.00	1282.24	22.78	7.73	1209.22	1864.62
	17.506	10.00	.00	.00	1269.00	B900.00	1281.37	.00	1282.26	22.48	7.70	1215.06	1877.12
	17.507	1.00	.00	.00	1269.00	B900.00	1281.46	.00	1282.27	19.87	7.32	1278.33	1996.85
*	17.588	429.50	.00	.00	1270.30	B900.00	1282.57	.00	1282.83	7.46	4.25	2270.30	3257.55
	17.662	391.00	.00	.00	1271.20	B900.00	1282.83	.00	1283.28	14.50	5.97	1773.06	2337.35
*	17.783	639.00	.00	.00	1275.40	B900.00	1283.77	.00	1285.16	57.87	9.58	967.34	1169.89
	17.932	787.00	.00	.00	1277.90	B900.00	1288.53	.00	1290.80	82.07	12.10	735.27	982.42

14PRINT

OCTOBER 2004

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	17.503	8900.00	1281.38	.00	.00	.00	270.71	.00
	17.504	8900.00	1281.34	.00	-.04	.00	265.71	1.00
	17.506	8900.00	1281.37	.00	.03	.00	266.29	10.00
	17.507	8900.00	1281.46	.00	.10	.00	272.87	1.00
*	17.588	8900.00	1282.57	.00	1.10	.00	372.50	429.50
	17.662	8900.00	1282.83	.00	.26	.00	305.03	391.00
*	17.783	8900.00	1283.77	.00	.93	.00	183.51	639.00
	17.932	8900.00	1288.53	.00	4.76	.00	103.81	787.00

IC74PRINT

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 17.588 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO= 17.783 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

KY14PRINT

CC_50YR.OUT

(HEC-2 - 50-YEAR MODEL)

```
**********************************************
*  HEC-2 WATER SURFACE PROFILES              *
*                                            *
*  Version   4.6.2;  May 1991                *
*                                            *
*  RUN DATE    13OCT04    TIME   10:33:18    *
**********************************************
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**************************************
*  U.S. ARMY CORPS OF ENGINEERS      *
*  HYDROLOGIC ENGINEERING CENTER     *
*  609 SECOND STREET, SUITE D        *
*  DAVIS, CALIFORNIA 95616-4687      *
*          (916) 756-1104            *
**************************************
```

```
X     X  XXXXXXX   XXXXX             XXXXX
X     X  X        X     X           X     X
X     X  X        X                       X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```


14/14PRINT

THIS RUN EXECUTED 13OCT04 10:33:18

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**********************************************
 HEC-2 WATER SURFACE PROFILES

 Version  4.6.2;  May 1991
**********************************************


T1      CAVE CREEK 50-YEAR RUN
T2      PREPARED BY: J2 ENGINEERING AND ENVIRONMENTAL DESIGN
T3      OCTOBER 2004

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

       0        2         0         0         0         0         0         0   1281.38         0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       1        0        -1         0         0         0         0         0         0         0


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    150          0        200

QT        1       13400
NC    0.030       0.030       0.030          .1          .3

    0.00 1290.34   13.19  1290.0   28.58  1289.7   32.78  1289.5   49.99
    62.43 1288.15   72.94  1288.1   75.17  1287.5   87.70  1286.8  108.03
    113.23  1286.1  130.18 1285.51  138.72 1285.46  149.07 1285.04  156.33
    160.21 1284.78  166.86 1284.63  170.99 1284.55  173.25  1284.5  178.00
    185.09  1283.8  190.81  1283.6  194.90  1283.1  202.78  1282.3  210.35
    215.13  1280.9  229.21 1280.71  231.97  1280.0  240.64 1279.59  246.89
    248.61  1279.2  250.91  1278.9  254.66  1278.1  264.11 1277.83  267.10
    291.59  1274.9  299.97 1274.22  307.91  1270.8  317.44 1269.30  325.76
    329.88  1270.8  338.51  1270.8  342.59 1272.92  346.64  1273.9  352.3
    361.27 1275.23  365.01  1275.8  370.57  1276.5  375.46 1277.75  385.03
    386.26  1278.2  388.45  1278.5  391.52 1279.14  396.95 1279.13  401.44
    406.93  1279.3  413.63  1279.4  420.88 1279.42  428.75  1279.4  430.32
    435.26 1279.18  440.74 1279.10  443.47  1279.1  445.35 1278.91  450.89
    466.80  1279.3  470.43  1279.4  480.39  1279.5  492.10 1279.59  494.53
    495.49 1279.89  503.95  1279.9  505.38  1280.1  511.66 1280.19  515.40
    515.46 1280.28  521.25 1280.44  526.11  1280.5  529.15 1281.04  552.41
    563.12  1281.6  572.10  1281.7  577.62  1281.9  585.95 1281.99  590.96
    599.38  1282.1  599.69  1282.1  606.01 1282.26  622.53  1282.4  627.45
    634.53 1282.40  640.84 1282.48  650.41  1282.5  660.89  1282.5  674.97
    679.65 1282.75  691.25

   X117.494       97  254.66  396.95    0.00    0.00    0.00       0       0
   GR1290.5     0.00 1290.34   13.19  1290.0   28.58  1289.7   32.78  1289.5   49.
   GR1288.9    62.43 1288.15   72.94  1288.1   75.17  1287.5   87.70  1286.8  108.
   GR1286.5   113.23  1286.1  130.18 1285.51  138.72 1285.46  149.07 1285.04  156.
   GR1285.0   160.21 1284.78  166.86 1284.63  170.99 1284.55  173.25  1284.5  178.
   GR1284.2   185.09  1283.8  190.81  1283.6  194.90  1283.1  202.78  1282.3  210.
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K/14PRINT

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 GR1281.8  215.13  1280.9  229.21 1280.71  231.97  1280.0  240.64 1279.59  246.
 GR1279.4  248.61  1279.2  250.91  1278.9  254.66  1278.1  264.11 1277.83  267.
 GR1275.5  291.59  1274.9  299.97 1274.22  307.91  1270.8  317.44 1269.30  325.
 GR1269.4  329.88  1270.8  338.51  1270.8  342.59 1272.92  346.64  1273.9  352.
 GR1274.8  361.27 1275.23  365.01  1275.8  370.57  1276.5  375.46 1277.75  385.
 GR1277.9  386.26  1278.2  388.45  1278.5  391.52 1279.14  396.95 1279.13  401.
 GR1279.1  406.93  1279.3  413.63  1279.4  420.88 1279.42  428.75  1279.4  430.
 GR1279.3  435.26 1279.18  440.74 1279.10  443.47  1279.1  445.35 1278.91  450.
 GR1279.2  466.80  1279.3  470.43  1279.4  480.39  1279.5  492.10 1279.59  494.
 GR1279.6  495.49 1279.89  503.95  1279.9  505.38  1280.1  511.66 1280.19  515.
 GR1280.2  515.46 1280.28  521.25 1280.44  526.11  1280.5  529.15 1281.04  552.
 GR1281.3  563.12  1281.6  572.10  1281.7  577.62  1281.9  585.95 1281.99  590.
 GR1282.1  599.38  1282.1  599.69  1282.1  606.01 1282.26  622.53  1282.4  627.
 GR1282.4  634.53 1282.40  640.84 1282.48  650.41  1282.5  660.89  1282.5  674.
 GR1282.6  679.65 1282.75  691.25

ET                          4.1      64       256
X1   17.503         56     64.01    255.09    24        64        44
GR   1284.7         0.00   1285.0   4.08      1285.3    10.09     1285.7    18.43     1285.8    20.87
GR   1283.6         25.04  1282.2   27.31     1281.6    33.94     1280.9    40.06     1280.45   46.45
GR   1279.6         57.95  1279.37  59.31     1279.3    61.00     1279.00   64.01     1277.60   78.59
GR   1277.2         85.39  1275.4   104.11    1275.0    108.31    1274.4    113.57    1273.6    120.64
GR   1273.1         126.58 1272.7   131.47    1271.9    137.13    1271.0    146.35    1269.5    149.74
GR   1270.4         156.11 1269.0   164.08    1273.6    173.23    1274.9    180.53    1275.9    191.70
GR   1277.7         204.88 1277.7   214.39    1277.8    221.14    1277.9    227.01    1278.15   237.84
GR   1278.6         245.96 1279.02  255.09    1279.1    262.64    1279.41   271.88    1280.0    279.55
GR   1280.4         287.61 1280.6   292.06    1281.0    300.28    1281.8    313.54    1282.9    327.50
GR   1283.3         334.66 1283.5   338.36    1283.40   343.53    1283.2    356.00    1283.6    358.10
GR   1284.5         360.85 1285.0   362.85    1285.5    368.03    1286.05   375.26    1286.1    376.43
GR   1286.1         377.14


NH       5    .03     133.9    .013     138.01    .03     244.99    .013     249.01    .03
NH   377.14
ET                          4.1      64       256
X1   17.504         56     64.01    255.09    1         1         1
X4       8  1272.3  133.9    1286     134       1286      138       1271.8    138.01    1278.6
X4   244.99         1286   245      1286      249       1278.8    249.01
GR   1284.7         0.00   1285.0   4.08      1285.3    10.09     1285.7    18.43     1285.8    20.87
GR   1283.6         25.04  1282.2   27.31     1281.6    33.94     1280.9    40.06     1280.45   46.45
GR   1279.6         57.95  1279.37  59.31     1279.3    61.00     1279.00   64.01     1277.60   78.59
GR   1277.2         85.39  1275.4   104.11    1275.0    108.31    1274.4    113.57    1273.6    120.64
GR   1273.1         126.58 1272.7   131.47    1271.9    137.13    1271.0    146.35    1269.5    149.74
GR   1270.4         156.11 1269.0   164.08    1273.6    173.23    1274.9    180.53    1275.9    191.70
GR   1277.7         204.88 1277.7   214.39    1277.8    221.14    1277.9    227.01    1278.15   237.84
GR   1278.6         245.96 1279.02  255.09    1279.1    262.64    1279.41   271.88    1280.0    279.55
GR   1280.4         287.61 1280.6   292.06    1281.0    300.28    1281.8    313.54    1282.9    327.50
GR   1283.3         334.66 1283.5   338.36    1283.40   343.53    1283.2    356.00    1283.6    358.10
GR   1284.5         360.85 1285.0   362.85    1285.5    368.03    1286.05   375.26    1286.1    376.43
GR   1286.1         377.14
```

```
NH      5      .03     133.9     .013    138.01     .03     244.99     .013    249.01     .03
NH  377.14
ET                     4.1       64      256
X1  17.506       56   64.01    255.09       10      10         10
X4       8   1272.3   133.9      1286      134    1286        138    1271.8    138.01   1278.6
X4  244.99     1286     245      1286      249  1278.8     249.01
GR  1284.7     0.00  1285.0      4.08   1285.3   10.09     1285.7     18.43    1285.8    20.87
GR  1283.6    25.04  1282.2     27.31   1281.6   33.94     1280.9     40.06   1280.45    46.45
GR  1279.6    57.95 1279.37     59.31   1279.3   61.00    1279.00     64.01   1277.60    78.59
GR  1277.2    85.39  1275.4    104.11   1275.0  108.31     1274.4    113.57    1273.6   120.64
GR  1273.1   126.58  1272.7    131.47   1271.9  137.13     1271.0    146.35    1269.5   149.74
GR  1270.4   156.11  1269.0    164.08   1273.6  173.23     1274.9    180.53    1275.9   191.70
GR  1277.7   204.88  1277.7    214.39   1277.8  221.14     1277.9    227.01   1278.15   237.84
GR  1278.6   245.96 1279.02    255.09   1279.1  262.64    1279.41    271.88    1280.0   279.55
GR  1280.4   287.61  1280.6    292.06   1281.0  300.28     1281.8    313.54    1282.9   327.50
GR  1283.3   334.66  1283.5    338.36  1283.40  343.53     1283.2    356.00    1283.6   358.10
GR  1284.5   360.85  1285.0    362.85   1285.5  368.03    1286.05    375.26    1286.1   376.43
GR  1286.1   377.14

NC      .03      .03      .03       .1       .3
ET                        4.1       64      256
X1  17.507       56   64.01    255.09        1       1          1
GR  1284.7     0.00  1285.0      4.08   1285.3   10.09     1285.7     18.43    1285.8    20.87
GR  1283.6    25.04  1282.2     27.31   1281.6   33.94     1280.9     40.06   1280.45    46.45
GR  1279.6    57.95 1279.37     59.31   1279.3   61.00    1279.00     64.01   1277.60    78.59
GR  1277.2    85.39  1275.4    104.11   1275.0  108.31     1274.4    113.57    1273.6   120.64
GR  1273.1   126.58  1272.7    131.47   1271.9  137.13     1271.0    146.35    1269.5   149.74
GR  1270.4   156.11  1269.0    164.08   1273.6  173.23     1274.9    180.53    1275.9   191.70
GR  1277.7   204.88  1277.7    214.39   1277.8  221.14     1277.9    227.01   1278.15   237.84
GR  1278.6   245.96 1279.02    255.09   1279.1  262.64    1279.41    271.88    1280.0   279.55
GR  1280.4   287.61  1280.6    292.06   1281.0  300.28     1281.8    313.54    1282.9   327.50
GR  1283.3   334.66  1283.5    338.36  1283.40  343.53     1283.2    356.00    1283.6   358.10
GR  1284.5   360.85  1285.0    362.85   1285.5  368.03    1286.05    375.26    1286.1   376.43
GR  1286.1   377.14

NC      .04      .04      .04
ET                        4.1       685      972
X1  17.588       90   777.21    891.58    401.5   466.5      429.5
GR  1289.7   448.92  1289.5    455.02   1289.2  463.16     1288.8    476.55    1288.6   481.23
GR  1288.2   495.23  1287.9    499.36   1287.7  502.66     1286.8    519.69   1286.44   526.44
GR  1286.3   528.93 1286.07    534.34   1285.01  564.32     1284.6    567.56    1284.4   572.51
GR  1283.8   586.10  1283.0    607.82  1282.83  612.83     1282.8    618.43   1282.70   621.23
GR  1281.8   628.36 1281.24    633.11   1280.23  640.75     1279.0    646.18    1277.5   652.83
GR  1277.1   655.65 1276.12    660.63   1276.7  664.30    1278.24    669.50    1279.3   673.03
GR  1280.3   679.78 1280.20    691.76  1279.76  696.56     1279.5    700.35    1279.0   708.17
GR  1280.0   711.96  1281.1    716.71   1283.1  726.72     1282.9    733.34   1282.70   742.12
GR  1282.0   757.50  1281.9    758.41  1281.23  764.62    1279.37    769.42    1278.3   771.93
GR  1275.7   777.21 1272.01    781.11  1270.46  782.59     1270.3    792.38   1272.04   805.81
GR  1273.9   810.45 1274.06    813.15   1275.2  824.66    1275.07    841.44   1274.68   844.62
GR  1274.5   845.89  1273.5    855.28   1273.3  860.81    1273.99    866.86    1274.3   869.68
GR  1275.2   876.52  1275.3    878.25  1275.75  882.55     1275.9    884.28    1276.5   891.58
```

1G714PRINT

GR	1276.2	901.96	1275.36	907.63	1274.4	913.63	1273.5	919.39	1272.60	924.50
GR	1272.5	944.50	1272.6	949.81	1272.67	956.64	1272.95	971.10	1276.89	987.42
GR	1279.5	998.24	1279.9	1000.55	1280.31	1003.08	1280.76	1005.67	1282.7	1016.43
GR	1283.5	1020.86	1284.8	1027.20	1285.2	1029.04	1286.64	1036.70	1287.31	1040.07
GR	1287.6	1042.16	1289.5	1055.39	1289.83	1061.26	1289.9	1063.08	1290.37	1073.21
ET			4.1	581	800					
X1	17.662	88	640.76	755.75	380	400	391	0	0	0
GR	1289.9	371.54	1290.7	405.92	1290.8	418.53	1290.8	451.28	1290.6	464.89
GR	1290.4	486.01	1289.77	499.54	1289.5	506.17	1288.42	511.20	1287.0	517.93
GR	1285.7	523.90	1284.4	529.98	1283.5	534.57	1281.13	540.90	1278.58	550.55
GR	1278.4	552.45	1278.6	557.56	1279.20	566.03	1279.3	566.68	1279.2	571.86
GR	1279.0	576.99	1279.3	581.36	1279.2	585.34	1279.0	590.58	1278.9	591.45
GR	1278.5	594.59	1278.35	594.91	1278.1	597.81	1277.7	603.17	1277.82	606.91
GR	1277.7	620.54	1277.3	640.76	1276.9	644.13	1276.24	649.39	1275.93	651.79
GR	1276.1	654.64	1275.7	662.95	1275.0	665.16	1272.80	675.92	1272.5	677.18
GR	1272.3	683.99	1272.2	688.57	1271.99	691.66	1271.5	697.71	1271.2	701.57
GR	1272.0	705.83	1272.09	707.25	1272.39	718.75	1272.5	722.02	1273.46	732.38
GR	1274.3	735.98	1275.7	742.50	1277.33	746.67	1278.8	755.75	1278.88	762.01
GR	1279.0	765.49	1279.02	768.09	1279.1	772.41	1279.3	778.73	1279.00	788.62
GR	1278.9	792.58	1277.8	799.64	1277.5	804.68	1277.19	816.63	1279.47	824.98
GR	1281.5	832.38	1281.60	832.83	1282.70	840.48	1284.36	851.55	1286.67	866.44
GR	1286.8	867.45	1288.42	879.28	1288.92	883.05	1289.18	888.94	1289.3	892.69
GR	1289.7	900.41	1290.6	906.26	1291.2	911.29	1291.44	915.20	1292.34	924.80
GR	1293.7	933.86	1293.9	935.63	1295.1	946.68	1295.77	952.77	1295.2	961.27
GR	1294.9	969.71	1294.7	972.70	1294.19	980.75				
ET			4.1	9921	10064					
X1	17.783	18.	9921.	10064.	540.	500.	639.			
GR	1295.2	9812.	1294.	9837.	1291.3	9861.	1286.9	9895.	1280.5	9921.
GR	1276.8	9938.	1278.3	9954.	1277.6	9973.	1275.4	10000.	1276.3	10019.
GR	1277.4	10033.	1277.7	10045.	1281.1	10064.	1281.3	10074.	1284.6	10097.
GR	1289.8	10122.	1291.5	10143.	1291.9	10153.				
ET			4.1	9956	10066					
X1	17.932	23	9956	10066	790	780	787			
GR	1294.8	9675	1294.7	9732	1295.5	9750	1293.6	9766	1297.5	9792
GR	1297.5	9837	1298.3	9869	1291.9	9896	1289.7	9956	1283.6	9966
GR	1283.5	9971	1277.9	9986	1278.2	10000	1278.2	10006	1279.5	10008
GR	1279.9	10022	1280.2	10032	1285.5	10054	1290.2	10066	1290.6	10083
GR	1298.5	10131	1299.7	10159	1299.7	10193				

1<7/4PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*PROF 1

CCHV= .100 CEHV= .300
*SECNO 17.503

17.503	12.38	1281.38	.00	1281.38	1283.27	1.89	.00	.00	1279.00
13400.0	149.7	12912.1	338.1	33.8	1151.9	69.4	.0	.0	1279.02
.00	4.42	11.21	4.87	.030	.030	.030	.000	1269.00	35.86
.004742	24.	44.	64.	0	0	0	.00	270.71	306.58

1490 NH CARD USED
*SECNO 17.504

3265 DIVIDED FLOW

17.504	12.20	1281.20	1281.03	.00	1283.36	2.16	.01	.08	1279.00
13400.0	131.5	12962.7	305.7	29.0	1084.6	60.6	.0	.0	1279.02
.00	4.53	11.95	5.05	.030	.026	.030	.000	1269.00	37.41
.005603	1.	1.	1.	4	8	0	.00	262.24	303.65

1490 NH CARD USED
*SECNO 17.506

3265 DIVIDED FLOW

17.506	12.65	1281.65	.00	.00	1283.44	1.79	.05	.04	1279.00
13400.0	191.2	12792.1	416.7	41.9	1169.1	84.2	.3	.1	1279.02
.00	4.56	10.94	4.95	.030	.026	.030	.000	1269.00	33.33
.004270	10.	10.	10.	5	0	0	.00	274.17	311.13

CCHV= .100 CEHV= .300
*SECNO 17.507

17.507	12.99	1281.99	.00	.00	1283.48	1.49	.00	.03	1279.00
13400.0	231.3	12680.8	487.9	52.7	1267.6	103.5	.3	.1	1279.02
.00	4.39	10.00	4.71	.030	.030	.030	.000	1269.00	29.68
.003324	1.	1.	1.	3	0	0	.00	286.21	315.89

*SECNO 17.588

1674PRINT

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.86

17.588	13.61	1283.91	.00	.00	1284.29	.39	.71	.11	1275.70
13400.0	1729.8	6130.9	5539.2	584.5	1158.4	1080.6	21.6	3.7	1276.50
.02	2.96	5.29	5.13	.040	.040	.040	.000	1270.30	583.64
.000958	402.	430.	467.	2	0	0	.00	439.21	1022.85

*SECNO 17.662

17.662	13.03	1284.23	.00	.00	1284.86	.64	.49	.08	1277.30
13400.0	2896.2	8385.6	2118.2	588.6	1169.4	449.6	44.2	7.1	1278.80
.04	4.92	7.17	4.71	.040	.040	.040	.000	1271.20	530.86
.001716	380.	391.	400.	2	0	0	.00	319.81	850.67

*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .51

17.783	9.72	1285.12	.00	.00	1287.11	1.99	1.84	.41	1280.50
13400.0	222.5	12636.0	541.5	43.3	1091.0	89.6	67.8	10.5	1281.10
.06	5.14	11.58	6.04	.040	.040	.040	.000	1275.40	9902.25
.006528	540.	639.	500.	2	0	0	.00	197.23	10099.48

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

17.932	12.43	1290.33	.00	.00	1293.56	3.23	6.08	.37	1289.70
13400.0	8.7	13391.2	.2	5.3	927.9	.3	87.2	13.5	1290.20
.07	1.64	14.43	.56	.040	.040	.040	.000	1277.90	9939.03
.009285	790.	787.	780.	3	0	0	.00	132.16	10071.19

KY74PRINT

THIS RUN EXECUTED 13OCT04 10:33:18

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

OCTOBER 2004

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	17.503	.00	.00	.00	1269.00	13400.00	1281.38	.00	1283.27	47.42	11.21	1255.17	1945.97
	17.504	1.00	.00	.00	1269.00	13400.00	1281.20	1281.03	1283.36	56.03	11.95	1174.16	1790.14
	17.506	10.00	.00	.00	1269.00	13400.00	1281.65	.00	1283.44	42.70	10.94	1295.21	2050.58
	17.507	1.00	.00	.00	1269.00	13400.00	1281.99	.00	1283.48	33.24	10.00	1423.79	2324.07
*	17.588	429.50	.00	.00	1270.30	13400.00	1283.91	.00	1284.29	9.58	5.29	2823.39	4329.49
	17.662	391.00	.00	.00	1271.20	13400.00	1284.23	.00	1284.86	17.16	7.17	2207.69	3234.54
*	17.783	639.00	.00	.00	1275.40	13400.00	1285.12	.00	1287.11	65.28	11.58	1223.88	1658.49
	17.932	787.00	.00	.00	1277.90	13400.00	1290.33	.00	1293.56	92.85	14.43	933.48	1390.61

1474PRINT

OCTOBER 2004

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	17.503	13400.00	1281.38	.00	.00	.00	270.71	.00
	17.504	13400.00	1281.20	.00	-.18	.00	262.24	1.00
	17.506	13400.00	1281.65	.00	.45	.00	274.17	10.00
	17.507	13400.00	1281.99	.00	.34	.00	286.21	1.00
*	17.588	13400.00	1283.91	.00	1.92	.00	439.21	429.50
	17.662	13400.00	1284.23	.00	.32	.00	319.81	391.00
*	17.783	13400.00	1285.12	.00	.89	.00	197.23	639.00
	17.932	13400.00	1290.33	.00	5.21	.00	132.16	787.00

1<71 4PRINT

SUMMARY OF ERRORS AND SPECIAL NOTES

WARNING SECNO= 17.588 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

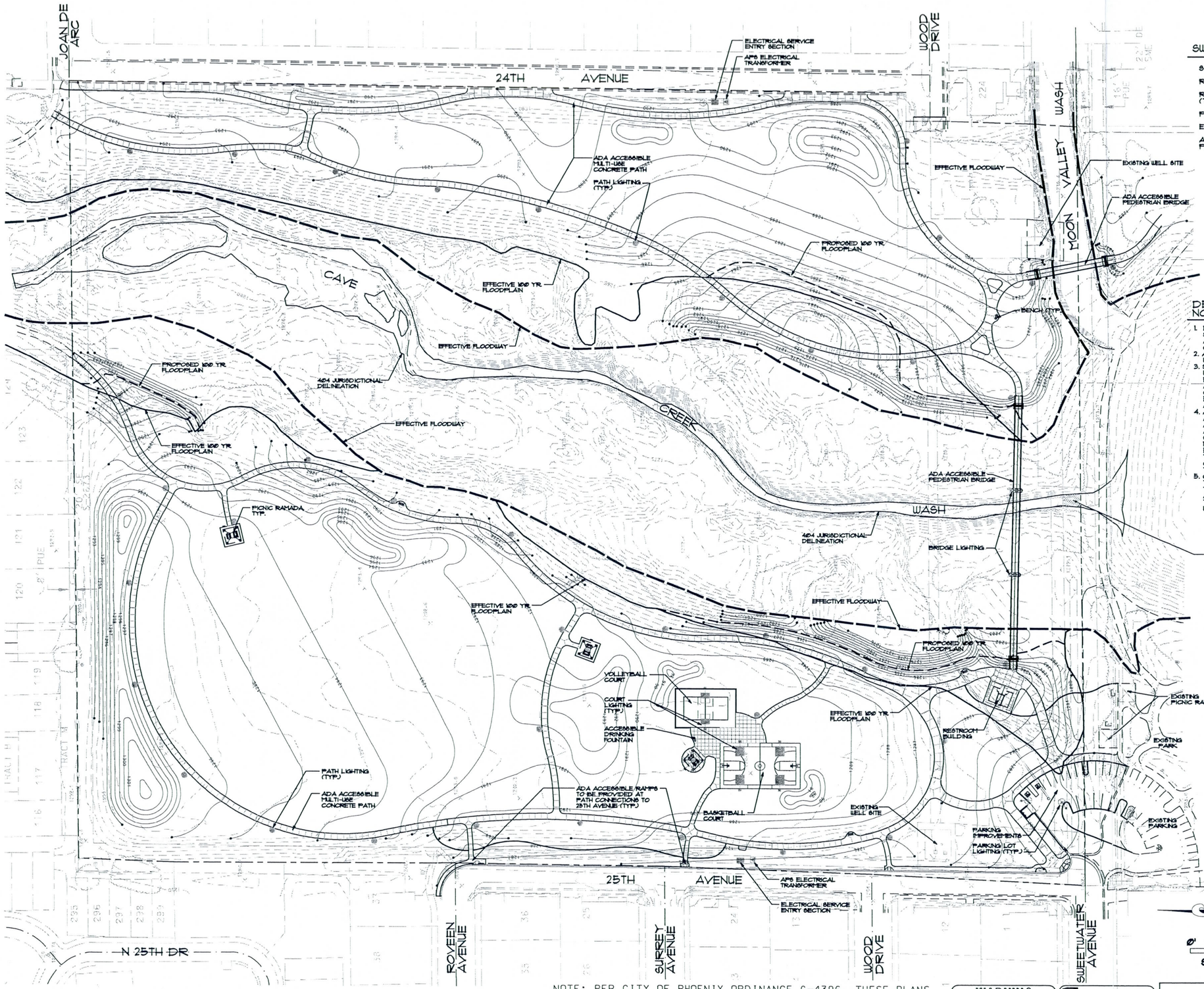
WARNING SECNO= 17.783 PROFILE= 1 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

KY14PRINT

Appendix D

Maps and
Construction Documents

CITY OF PHOENIX ENGINEERING & ARCHITECTURAL SERVICES



SWEETWATER PARK

SITE ACREAGE	31.6 GROSS
RESTROOM BLDG. SQ. FT.	515
RESTROOM BLDG. HT. (TO ROOF PEAK)	12'-9"
PROPOSED PARKING	20
EXISTING PARKING	20
ACCESSIBLE SPACES PROVIDED	2

Revisions	Date
1 DSD Revis.	8/02

DEVELOPMENT SERVICES NOTES

1. DEVELOPMENT AND USE OF THIS SITE WILL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES.
2. ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND.
3. STRUCTURES AND LANDSCAPING WITHIN A TRIANGLE MEASURED BACK 10' FROM THE PROPERTY LINE AND 20' ALONG THE PROPERTY LINE ON EACH SIDE OF THE DRIVEWAY ENTRANCES WILL BE MAINTAINED AT A MAXIMUM HEIGHT OF 3'.
4. ANY LIGHTING WILL BE PLACED SO AS TO DIRECT LIGHT AWAY FROM ADJACENT RESIDENTIAL DISTRICTS AND WILL NOT EXCEED ONE FOOT CANDLE AT THE PROPERTY LINE. NO NOISE, ODOR, OR VIBRATION WILL BE EMITTED AT ANY LEVEL EXCEEDING THE GENERAL LEVEL OF NOISE, ODOR, OR VIBRATION EMITTED BY USES IN THE AREAS OUTSIDE OF THE SITE.
5. OWNER'S OF PROPERTY ADJACENT TO PUBLIC RIGHTS-OF-WAY WILL HAVE THE RESPONSIBILITY FOR MAINTAINING ALL LANDSCAPING LOCATED WITHIN THE RIGHTS-OF-WAY, IN ACCORDANCE WITH APPROVED PLANS.

Registered Landscape Architect
CERTIFICATE NO.
23430
JEFFREY M. ENGELMANN
Date Signed
ARIZONA, U.S.A.

Seal

Designed By:	AAA/JTV
Drawn By:	AAA/JTV
Checked By:	JME/JTV
Date:	AUGUST, 2002

DSD KIVA # 02-202, SDEV # 0200104

Title:

City of Phoenix
SWEETWATER PARK
Site Plan

NOTE: PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.

"WARNING" OVERHEAD POWER LINES WITHIN PROJECT CONSTRUCTION LIMITS

Two working days before you dig CALL FOR THE BLUE STAKES 263-1100 Blue Stake Center CALL COLLECT

PREMIER ENGINEERING CORPORATION

Sheet SW-2.01 Of 2.23

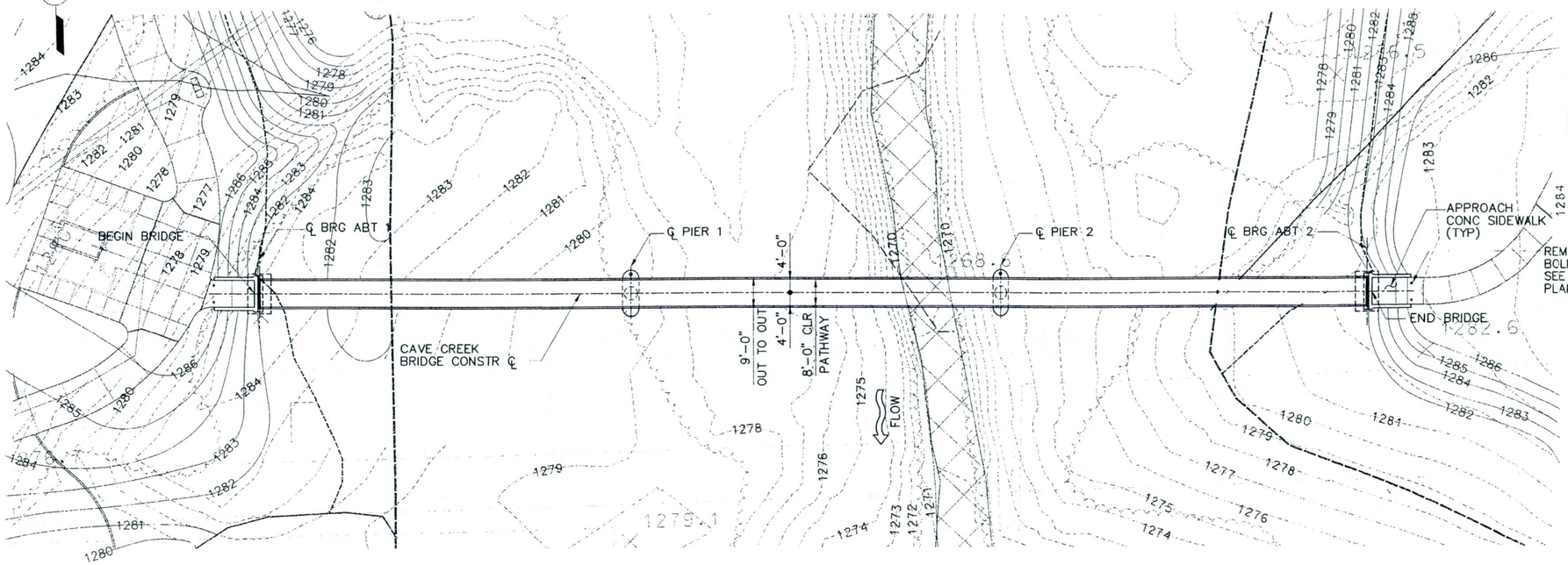
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	PA 75100148			

PREMIER CONSULTING ENGINEER

DES NTS/JXH DR: JMC CK: FJ DATE: 07/02

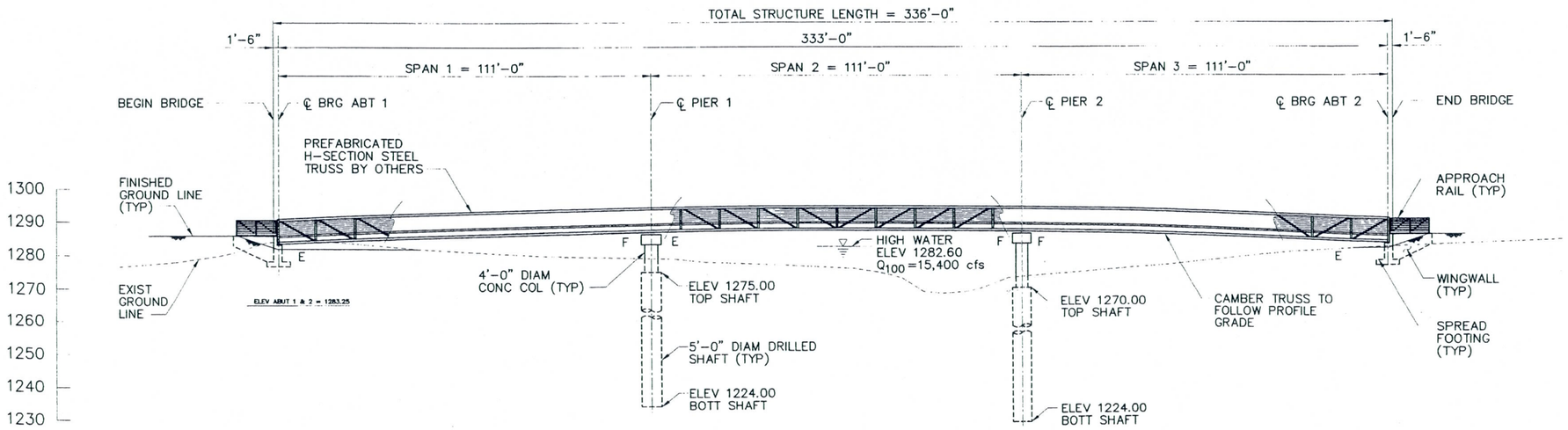
24338 FADI JALAGHI CERTIFICATE EXPIRES 7-31-02 REGISTERED PROFESSIONAL ENGINEER ARIZONA, U.S.A.

Built to Plans



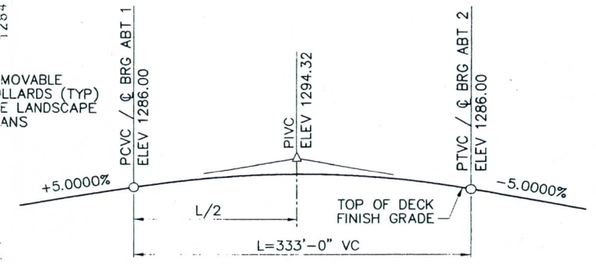
PLAN

NEW 3-SPAN PREFABRICATED STEEL TRUSS BRIDGE
SCALE: 1"=20'



ELEVATION

SCALE: 1"=20'

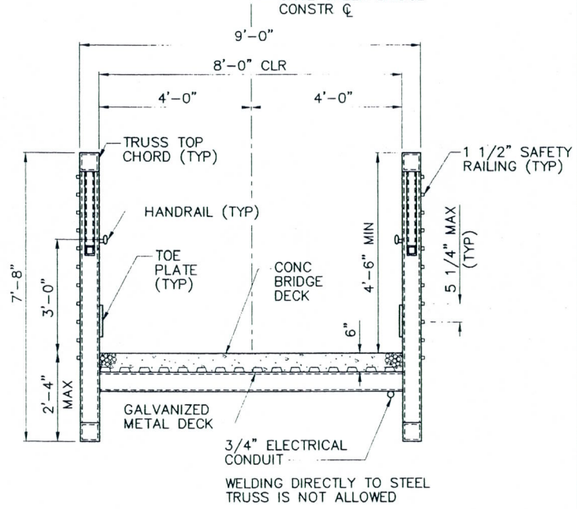


PROFILE GRADE-CAVE CREEK BRIDGE

NTS

BRIDGE GEOMETRY

	NORTHING	EASTING	TOP OF DECK ELEV
℄ ABT 1	947278.323	440953.074	1286.00
℄ PIER 1	947276.165	441064.053	1289.70
℄ PIER 2	947274.007	441175.032	1289.70



SECTION - TYPICAL PREFABRICATED H-SECTION STEEL TRUSS

(LOOKING WEST)
SCALE: 1/2"=1'-0"

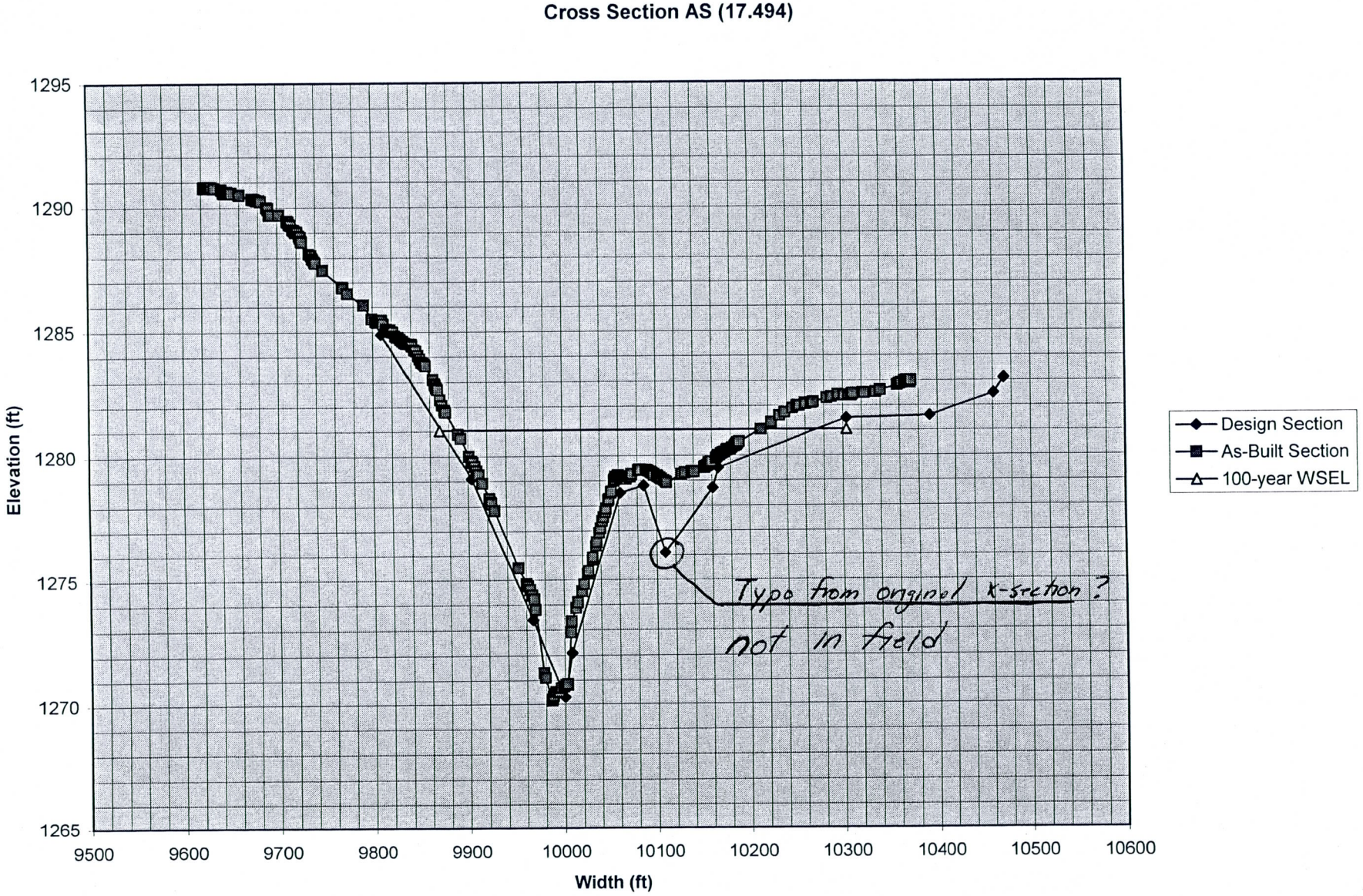
CITY OF PHOENIX, ARIZONA
ENGINEERING AND ARCHITECTURAL SERVICES

PLAN, ELEVATION & SECTION

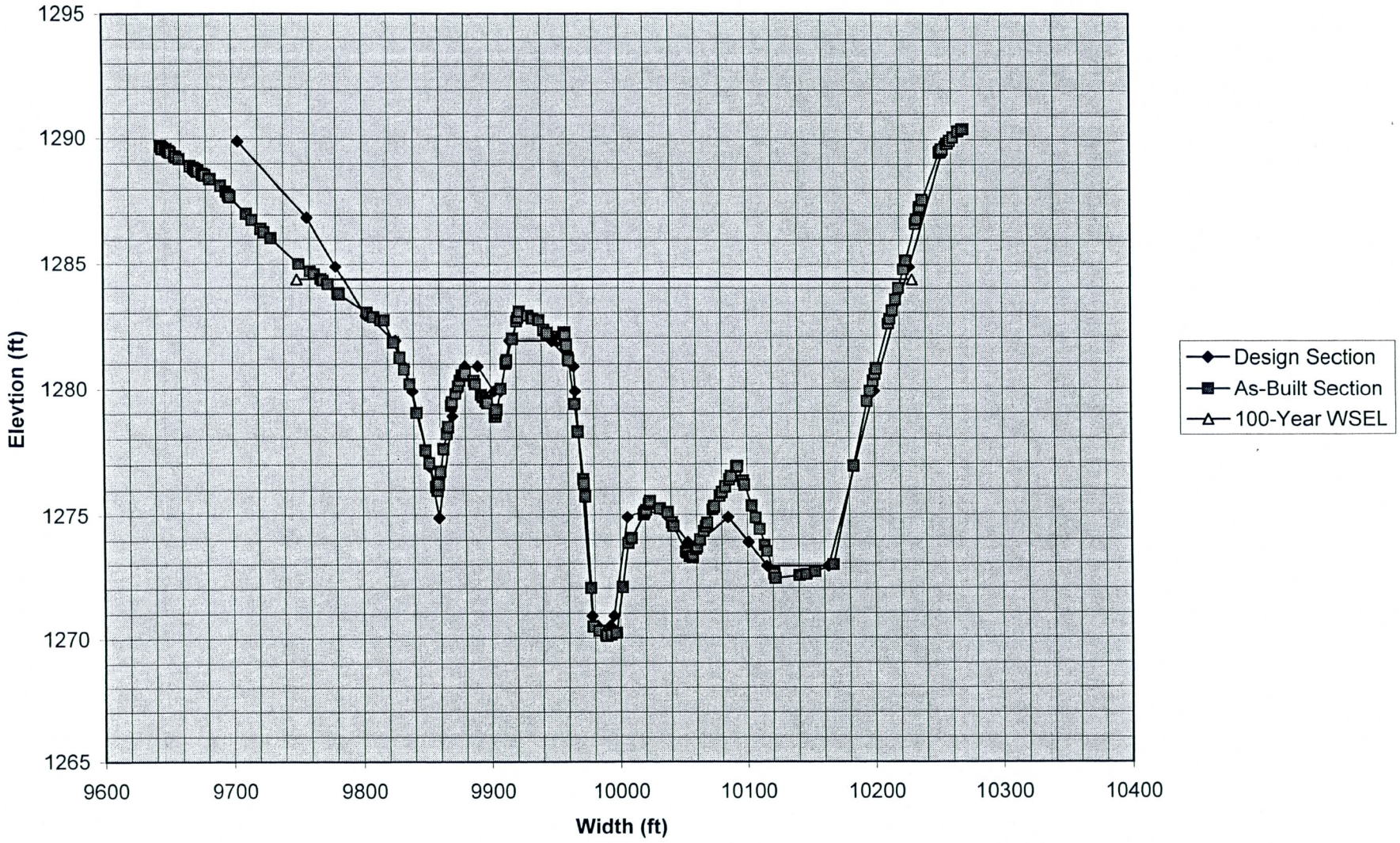
Survey Cross- Sections

Note:

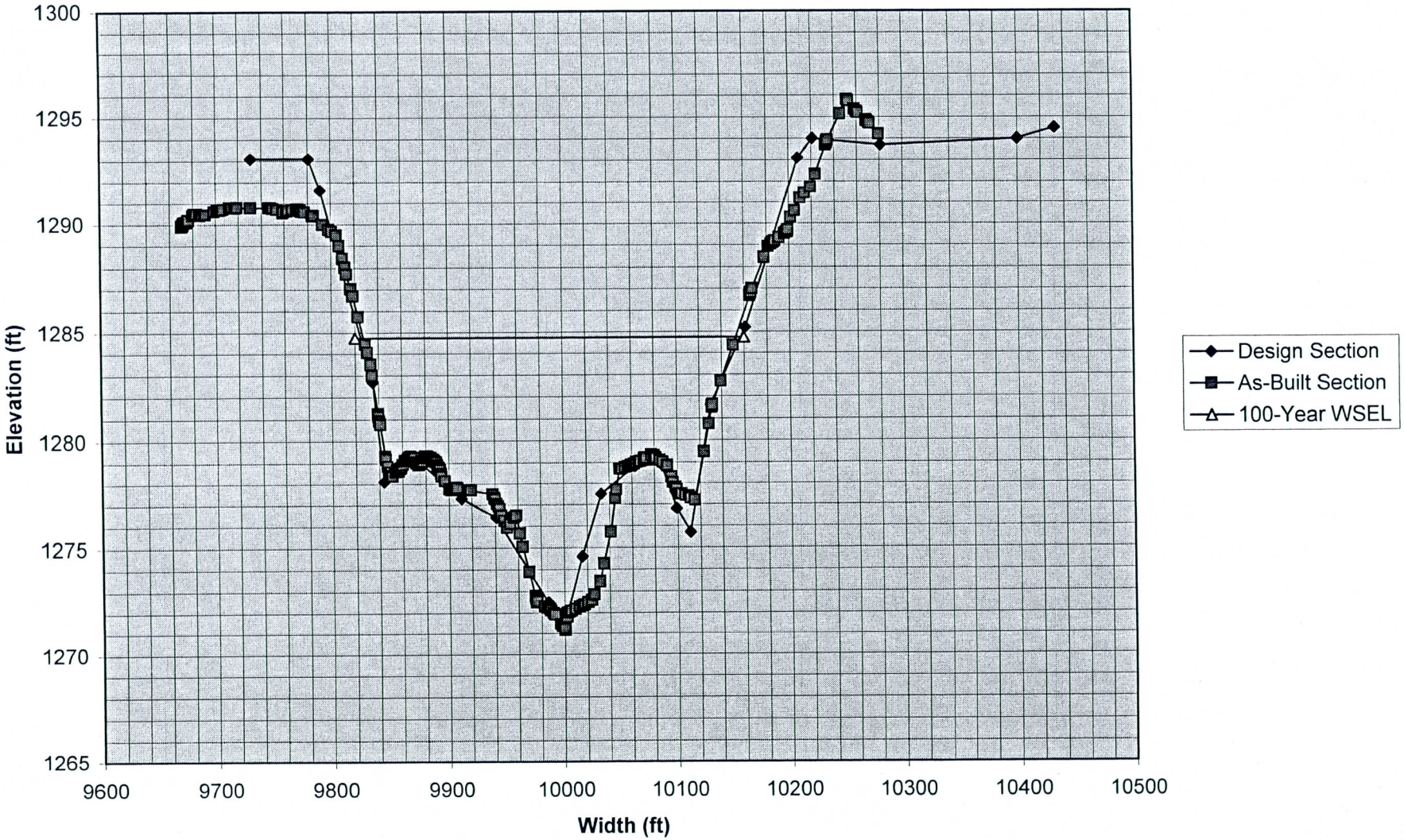
Cross sections shown are from design plans (based on original survey data) and as-built survey. Cross sections correlate very well (the accuracy of the survey was approximately one foot). The project did minimal grading within the floodplain of Cave Creek Wash.


Cross Section AS (17.494)
Elevation (ft)
1295
1290
1285
1280
1275
1270
1265
9500
9600
9700
9800
9900
10000
10100
10200
10300
10400
10500
10600
Width (ft)
Design Section
As-Built Section
100-year WSEL
Typo from orginal X-section ?
not in field

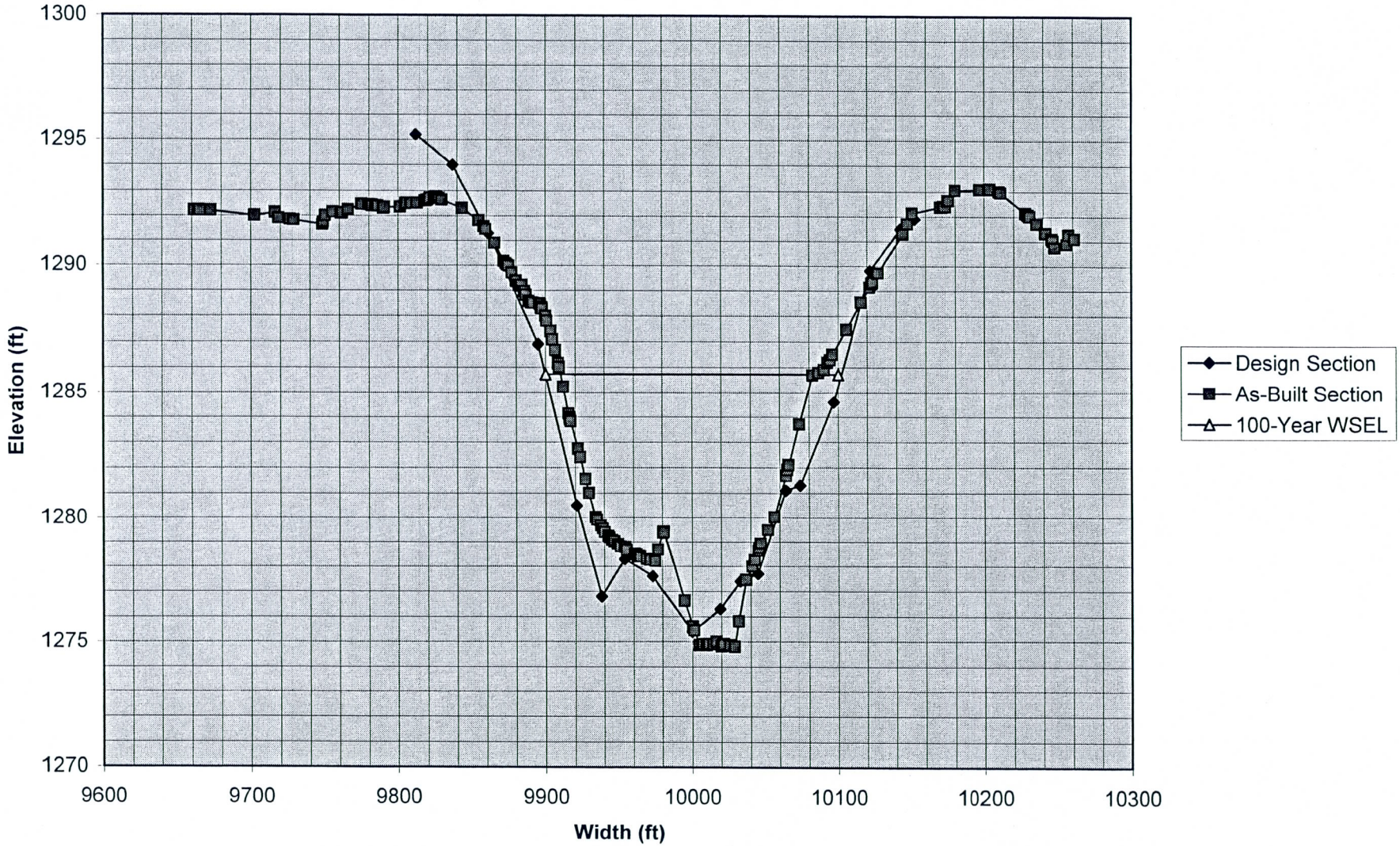
Cross Section AT (17.588)



Cross Section AU (17.662)



Cross Section AV (17.783)



Construction Management 2000

October 12th 2004.

Mr. Jeff Velasquez
Project Landscape Architect.

J2 Engineering and Environmental Design,
8222 South 48th Street, Suite 135,
Phoenix, Az.,85044.

RE: Cave Creek Regional Parks Projects,
COP Proj. No. PA75200148
Cave Creek Wash Pedestrian Bridge.
CM2000 Doc. Cont. No. 2021(C2) 0.130

Mr. Velasquez,

Please accept this correspondence as confirmation of our discussion yesterday that the Cave Creek Wash Pedestrian Bridge was installed per contract documents as it relates to both horizontal and vertical control.

RECEIVED

BY:.....

Sincerely

Ian Andrews,
Construction Manager.

Cc CM2000 File

4651 South Lakeshore Dr., Suite #2 • Tempe, AZ 85282-7182 • Office: 480.345.2788 • Fax: 480.345.2787

kpff Consulting Engineers	SPECIAL INSPECTION	MONTHLY REPORT
PROJECT: Cave Creek Wash Parks		PROJECT NO.: 130044
LOCATION: Sweetwater, Cholla & Rose Mofford Parks		DATE: 6/29/2004
CONTRACTOR: Valley Rain		REPORT NO.: 5
START DATE: 2/26/2004	END DATE: 3/17/2004	PAGE: 1 OF 1

This report is issued to the Building Official as required by the "Special Inspection" section of the Building Code.

Summarize Inspection activity including dates:

Sweetwater Park:

2/26/2004: Contractor concluded construction of restroom building.

2/26/2004 - 3/10/2004: Contractor continued and concluded construction of Cave Creek Wash pedestrian bridge.

2/26/2004 - 3/11/2004: Contractor continued and concluded construction of Moon Valley Wash pedestrian bridge.

Cholla Park:

2/26/2004: Contractor concluded construction of restroom building.

Rose Mofford Park:

3/8/2004 - 3/17/2004: Contractor continued and concluded construction of restroom building.

Construction work which requires special inspection has been completed.

Items requiring corrections:

None

Job No. 2021
File No. 03)4.05A
Page 1 of 8

Corrections of previous items:

1. Sweetwater park, restroom building:
   a) Metal deck seam button punches, ref Field Alert 2/26/2004, item 2.
2. Cholla park, restroom building:
   a) Metal deck seam button punches, ref Field Alert 2/26/2004, item 2.

Authorized changes to approved plans:

None

Engineer Signature and Seal:

Registered Professional Engineer (Civil) CERTIFICATE NO. 22971 TIMOTHY S. SEPPER Date Signed 6.29.04 ARIZONA U.S.A.

RECEIVED
JUN 29 2004
BY:

Copy:

Mike Bornhoeft - City of Phoenix
Herb Yee - Valley Rain
Ian Andrews - CM 2000

This report to remain at the jobsite with the contractor for review by the Building Official upon request.

kpff Consulting Engineers
2800 North Central Avenue, Suite 1010, Phoenix, AZ 85004-1008
(602) 264-1010 Fax (602) 285-1010
Phoenix Seattle Tacoma Portland San Francisco Oakland Irvine
Los Angeles San Diego Sacramento St. Louis

Project No. 130044

Field Alert No.	Mo.	Day	Year
	2	26	04

FIELD ALERT

Page No. 1 of 1

Job Name Cave Creek Regional Parks Sweetwater & Cholla

Location 23rd Ave & Wood Dr. Phoenix

The following work has been observed for conformance with the design concept and the information contained in the Contract Documents only. This observation does not extend to means, methods, techniques, sequences, or procedures of construction (except where such is required by the Contract Documents) or to safety precautions or programs incident thereto.

This field alert is handed to ~~Ian Anderson~~ → ANDREWS for corrective or preventive action, where needed.

1- Observed #4 Rebar @ 12" o/c Each Way at Both Bridges. Rebar chaired & lap spliced

2- Observed Button Punching @ 24" o/c at Steel Roof Deck of Restroom. (BOTH CHOLLA & SWEETWATER RESTROOM BLG.S.)

RECEIVED
JUN 29 2004
BY:

C.C. Building Official (copy) ☐
C.C. Contractor (pink) ☐

Rec'd by _____ Submitted by Richard Lewis

kpff Consulting Engineers
2800 North Central Avenue, Suite 1010, Phoenix, AZ 85004-1008
(602) 264-1010 Fax (602) 285-1010
Phoenix Seattle Tacoma Portland San Francisco Oakland Irvine
Los Angeles San Diego Sacramento St. Louis

Project No. 130044

Field Alert No.	Mo.	Day	Year
	3	8	04

FIELD ALERT

Page No. 1 of 2

Job Name CAVE CREEK WASH PARKS

Location PHOENIX, AZ

The following work has been observed for conformance with the design concept and the information contained in the Contract Documents only. This observation does not extend to means, methods, techniques, sequences, or procedures of construction (except where such is required by the Contract Documents) or to safety precautions or programs incident thereto.

This field alert is handed to IAN ANDREWS OF CM2000 for corrective or preventive action, where needed.

I. SWEETWATER PARK:

1. CAVE CREEK WASH BRIDGE: OBSERVED BRIDGE DECK AREA, REINFORCEMENT, LAP SPLICES, REBAR CLEARANCE, CONCRETE POUR AND MECHANICAL CONSOLIDATION OF CONCRETE FOR CENTER THIRD OF BRIDGE. WORK NOTED APPEARED TO CONFORM TO CONTRACT DOCUMENTS.

II. ROSE MOFFORD PARK, (EAST):

1. RESTROOM BUILDING: OBSERVED FIELD WELDS FOR PIPE POST & BEAM FRAMING TO BASE PLATES, DECK BEARING ANGLES TO PIPE BEAMS, WIRE SCREEN SECTIONS FRAMES TO EMBEDS & PIPE FRAMING, PARTITIONS, PUDDLE WELDS AT DECK TO FRAMING AND BUTTON PUNCHES AT METAL DECK SEAMS. WORK NOTED

RECEIVED
MAR 29 2004

C.C. Building Official (copy)
C.C. Contractor (pink)

Rec'd by [signature] Submitted by DAVID ADAMS
3/29/04 @ 12:44

kpff Consulting Engineers
2800 North Central Avenue, Suite 1010, Phoenix, AZ 85004-1008
(602) 264-1010 Fax (602) 285-1010
Phoenix Seattle Tacoma Portland San Francisco Oakland Irvine
Los Angeles San Diego Sacramento St. Louis

Project No. 13004

Mo.	Day	Year
3	8	04

Field Alert No.

FIELD ALERT

Page No. 2 of 2

Job Name CAVE CREEK WASH PARKS

Location PHOENIX, AZ

The following work has been observed for conformance with the design concept and the information contained in the Contract Documents only. This observation does not extend to means, methods, techniques, sequences, or procedures of construction (except where such is required by the Contract Documents) or to safety precautions or programs incident thereto.

This field alert is handed to IAN ANDREWS OF CM2000 for corrective or preventive action, where needed.

APPEARED TO CONFORM TO CONTRACT DOCUMENTS WITH THE FOLLOWING EXCEPTION WHICH REQUIRES REWORK:

a) BUTTON PUNCHES AT DECK SEAMS DO NOT EFFECTIVELY LOCK DECK SECTIONS. PLEASE CORRECT AND PROVIDE BUTTON PUNCHES PIERCING DECK SEAMS TO EFFECTIVELY LOCK DECK PANELS.

I. SWEETWATER PARK:

2. MOON VALLEY WASH BRIDGE: CONCRETE POUR WAS POST PONED TO WEDNESDAY 3/10 DUE TO SUBCONTRACTOR COORDINATION OF WORK.

RECEIVED
JUN 23 2004

C.C. Building Official (copy) ☐
C.C. Contractor (pink) ☐
C.C. Client (yellow) ☐

Rec'd by [signature] Submitted by DAVID ADAMS

3-8-04 @ 1215

kpff Consulting Engineers
2800 North Central Avenue, Suite 1010, Phoenix, AZ 85004-1008
(602) 264-1010 Fax (602) 285-1010
Phoenix Seattle Tacoma Portland San Francisco Oakland Irvine
Los Angeles San Diego Sacramento St. Louis

Project No. 130044

Mo.	Day	Year
3	9	04

Field Alert No.

FIELD ALERT

Page No. 1 of 1

Job Name CAVE CREEK WASH PARKS

Location PHOENIX, AZ

The following work has been observed for conformance with the design concept and the information contained in the Contract Documents only. This observation does not extend to means, methods, techniques, sequences, or procedures of construction (except where such is required by the Contract Documents) or to safety precautions or programs incident thereto.

This field alert is handed to IAN ANDREWS OF CM2000 for corrective or preventive action, where needed.

I. SWEETWATER PARK:

1. CAVE CREEK WASH BRIDGE: OBSERVED DECK AREA, REINFORCEMENT, LAP SPLICES, REBAR CLEARANCE, CONCRETE POUR AND MECHANICAL CONSOLIDATION OF CONCRETE FOR EAST THIRD OF BRIDGE. WORK NOTED APPEARED TO CONFORM TO CONTRACT DOCUMENTS.

RECEIVED
JUN 29 2004
BY

C.C. Building Official (copy) ☐
C.C. Contractor (pink) ☐

Rec'd by _____ Submitted by DAVID ADAMS

kpff Consulting Engineers
[redacted] North Central Avenue, Suite 1010, Phoenix, AZ 85004-1008
[redacted] 264-1010 Fax (602) 285-1010
Phoenix Seattle Tacoma Portland San Francisco Oakland Irvine
Los Angeles San Diego Sacramento St. Louis

Project No. 130044

Mo.	Day	Year
3	10	04

Field Alert No.

FIELD ALERT

Page No. 1 of 1

Job Name CAVE CREEK WASH PARKS

Location PHOENIX, AZ

The following work has been observed for conformance with the design concept and the information contained in the Contract Documents only. This observation does not extend to means, methods, techniques, sequences, or procedures of construction (except where such is required by the Contract Documents) or to safety precautions or programs incident thereto.

This field alert is handed to IAN ANDREWS OF CM 2000 for corrective or preventive action, where needed.

I. SWEETWATER PARK:

1. CAVE CREEK WASH BRIDGE: OBSERVED DECK AREA, REINFORCEMENT, REBAR CLEARANCE, CONCRETE POUR, REBAR LAP SPLICES AND MECHANICAL CONSOLIDATION OF CONCRETE. WORK NOTED APPEARED TO CONFORM TO CONTRACT DOCUMENTS.

RECEIVED
JUN 29 2004

C.C. Building Official (copy) ☐
C.C. Contractor (pink) ☐

Rec'd by [redacted] Submitted by DAVID ADAMS

kpff Consulting Engineers
2800 North Central Avenue, Suite 1010, Phoenix, AZ 85004-1008
[redacted]) 264-1010 Fax (602) 285-1010
Phoenix Seattle Tacoma Portland San Francisco Oakland Irvine
Los Angeles San Diego Sacramento St. Louis

Project No. 130044

Field Alert No.	Mo.	Day	Year
	3	11	04

FIELD ALERT

Page No. 1 of 1

Job Name SWEETWATER PARK

Location PHOENIX, AZ

The following work has been observed for conformance with the design concept and the information contained in the Contract Documents only. This observation does not extend to means, methods, techniques, sequences, or procedures of construction (except where such is required by the Contract Documents) or to safety precautions or programs incident thereto.

This field alert is handed to CARL JOHNS, CM2000 for corrective or preventive action, where needed.

MOON VALLEY BRIDGE: OBSERVED PLACEMENT OF REINFORCEMENT, SPLICE LENGTHS, CLEARANCES, AND PLACEMENT OF CONCRETE FOLLOWED BY MECHANICAL CONSOLIDATION. WORK NOTED ABOVE APPEARS TO CONFORM TO CONTRACT DOCUMENTS.

RECEIVED
JUN 29 2004

C.C. Building Official (copy) ☐
C.C. Contractor (pink) ☐
C.C. Client (yellow) ☐

Rec'd by [signature] Submitted by DAVID COLE

kpff Consulting Engineers
2800 North Central Avenue, Suite 1010, Phoenix, AZ 85004-1008
(602) 264-1010 Fax (602) 285-1010
Phoenix Seattle Tacoma Portland San Francisco Oakland Irvine
Los Angeles San Diego Sacramento St. Louis

Project No. 130044

Mo.	Day	Year
3	17	04

Field Alert No.

FIELD ALERT

Page No. 1 of 1

Job Name SWEET WATER PARK

Location PHOENIX, AZ

The following work has been observed for conformance with the design concept and the information contained in the Contract Documents only. This observation does not extend to means, methods, techniques, sequences, or procedures of construction (except where such is required by the Contract Documents) or to safety precautions or programs incident thereto.

This field alert is handed to IAN ANDREWS, CM2000 for corrective or preventive action, where needed.

ROSE MOFFARD PARK EAST, RESTROOM BUILDING, ROOF DECK: OBSERVED CORRECTION OF BUTTON PUNCHES AS REQUESTED IN PREVIOUS FIELD ALERT. WORK NOTED ABOVE APPEARS TO CONFORM TO CONTRACT DOCUMENTS.

RECEIVED
JUN 29 2004

C.C. Building Official (copy) ☐
C.C. Contractor (pink) ☐

Rec'd by _____ Submitted by DAVID COLE

Appendix E

Public Notice

Public Notice
For
Letter of Map Revision
Sweetwater Park
Phoenix, Arizona

The City of Phoenix, Street Transportation Department, in accordance with National Flood Insurance Program regulation 65.7(b)(1), hereby gives notice of the City's intent to revise the Cave Creek Wash floodway, generally located between Cactus Road and Thunderbird Road. Specifically, the floodway shall be revised from a point near Sweetwater Avenue to a point near Joan de Arc Avenue. As a result of the floodway revision, the floodway shall not widen at any point the existing floodway. A maximum narrowing of the floodway of 1 foot occurs upstream of the proposed new pedestrian bridge approximately 780 feet north of the bridge at RM 17.662. A maximum increase of 0.24 feet the floodway occurs 400 feet north of the proposed pedestrian bridge at RM 17.588.

Maps and detailed analysis of the floodway revision can be reviewed at Floodplain Management, 200 W. Washington Street 5th Floor Phoenix, Arizona 85003-1611. Interested persons may call Hasan Mustaq, Floodplain Manager, at (602) 262-4026 for additional information from 9/1/2004 to 10/1/2004.

City of Phoenix

STREET TRANSPORTATION DEPARTMENT

February 14, 2003

Andrea L. Ryon, P.E., Director
Michael Baker Jr., Inc.
3601 Eisenhower Avenue, Suite 600
Alexandria, VA 22304

Case No.: 02-09-1021R
Community: City of Phoenix
Community No.: 040051

316-ACK.FRQ

Dear Ms. Ryon:

This responds to your request dated December 16, 2002, for additional data to complete your review for a Conditional Letter of Map Revision (CLOMR) for the above-referenced community.

Following are the responses to the items indicated in the request for additional data.

ITEM

1. A corrected effective HEC-2 floodway model that includes Cross Sections 17.503, 17.504, 17.506 and 17.507 is included in Appendix A.

2. Compliance with requirements of Section 65.12 is listed below.

   (a) The impacted property is owned by City of Phoenix. A copy of the quarter section is included in Appendix B. (65.12(a)(3))
   (b) No other community is impacted by the proposed development. (65.12(a)(4))
   (c) No structures are located in areas which would be impacted by the increased base flood elevation. A copy of the aerial map corresponding to the quarter section map is included in Appendix C. (65.12(a)(5))
   (d) A copy of the Floodplain Ordinance is included in Appendix D. (65.12(b).

Should you need further information regarding this project, please do not hesitate to contact me at (602)-262-4960.

Sincerely,

Hasan Mushtaq, Ph.D., P.E., CFM
Floodplain Manager

HM/DW/aff/sweetwater park.doc

Attachments

Existing (Premier Floodway)

RM	Sta Lt	Sta Rt	Encr W	Delta
17.503	9910	10155	245	0
17.504				
17.506				
17.507				
17.588	9855.24	10150	294.76	0.24
17.662	9900	10150	250	-1
17.783	9921	10064	143	0
17.932	9956	10066	110	0

As-Built (J2)

RM	Sta Lt	Sta Rt	Encr W
17.503	38	283	245
17.504	38	383	345
17.506	38	383	345
17.507	38	383	345
17.588	680	975	295
17.662	566	815	249
17.783	9921	10064	143
17.932	9956	10066	110

	RM	LOB	Channel	ROB
1	17.932	790	787	780
2	17.783	540	639	500
3	17.662	380	391	400
4	17.588	401.5	429.5	466.5
5	17.507	1	1	1
6	17.506	10	10	10
7	17.504	1	1	1
8	17.503	24	44	64
9	17.494	750	707	670

Appendix F

Letter of
Maintenance of Bridge at Sweetwater Park Site

City of Phoenix
STREET TRANSPORTATION DEPARTMENT

November 9, 2004

FEMA LOMR Depot
3601 Eisenhower Avenue
Alexandria, VA 22304

RE: LETTER OF MAP REVISION (LOMR) FOR CAVE CREEK WASH
CASE NUMBER 02-09-1021R
PANEL NUMBER 04013C1655J, DATED JULY 19, 2001

The City of Phoenix will adopt and enforce the modified regulatory floodway, according to the Phoenix City Code, Article 1, Chapter 32B, Floodplains. A copy of the stated regulation is included with this submittal. The City of Phoenix also understands the responsibility and the liability for the inspections and to ensure flow carrying capacities for the Cave Creek Wash. Attached is a copy of the City of Phoenix Policy and Procedure for Maintenance of Drainage Facilities. Also attached is a copy of the City of Phoenix Floodplain Ordinance. This submittal is in accordance with 65.12(6) of the National Flood Insurance Program Regulations.

If you have any questions, please contact Mr. Hasan Mushtaq Ph.D., P. E., CFM, Floodplain Manager, City of Phoenix, 200 W. Washington St., 5th Floor, Phoenix, Arizona 85003, phone number 602-262-4960, fax number 602-262-7322.

Sincerely,

Hasan Mushtaq Ph.D., P. E., CFM
Floodplain Manager

CITY OF PHOENIX

STREET MAINTENANCE DIVISION POLICY AND PROCEDURE

4.14

1 of 2

NUMBER

MAINTENANCE OF DRAINAGE FACILITIES

SUBJECT

12-02-92

ISSUE DATE

PURPOSE:

To insure all drainage facilities are maintained and kept clear from objects that may impede the flow of storm runoff.

POLICY:

All drainage facilities shall be inspected and cleaned on a maintenance schedule.

PROCEDURE:

1. The Street Maintenance Drainage Foreman shall visually inspect each drainage facility in his/her section once a month.

2. The Drainage Foreman shall schedule the cleaning as needed, but no more than the established service levels, unless it is determined that if allowed to exist could become an obstruction to drainage.

3. The following is the established service levels.

   a) Man-made Drainage Easements: Inspected and cleaned, if needed, once a month.

   b) Dedicated Natural Washes: Inspected monthly and cleaned of debris twice annually.

   c) Un-dedicated Natural Washes: Inspect twice annually and notify adjacent property owner to clean as needed. If the property owner does not remove the debris from the wash, the Foreman shall advise the area Street Maintenance Field Inspector who shall follow through by notifying NIH - Zoning Enforcement.

   d) Man-made Detention Basins: Inspect monthly and clean as needed.

   e) Storm Drainage Inlets: Inspect monthly and clean as needed.

The Street Maintenance Section shall respond to any complaints regarding the clogging of drainage facilities and correct the problem within five days of notification. The above service levels shall be followed for routine maintenance. Extenuating circumstances may require deviation.

DTM:ve

Chapter 32B

FLOODPLAINS*

* **Cross References:** Engineering and Architectural Services Department, § 2-27; Development Advisory Board, § 2-164 et seq.; building regulations, ch. 9; subdivisions, ch. 32; grading and drainage, ch. 32A.

State Law References: Floodplain management, A.R.S. § 48-3601 et seq.; municipal floodplain management programs, A.R.S. § 48-3610.

Article I. General

Sec. 32B-1. Implementation.
Sec. 32B-2. Definitions.

Article II. Regulations

Sec. 32B-3. Maps.
Sec. 32B-4. Classification of floodplains.
Sec. 32B-5. Regulation.
Sec. 32B-6. Interim elevations.
Sec. 32B-7. Coordination in floodplain management.
Sec. 32B-8. Non-prohibited construction.
Sec. 32B-9. Reserved.
Sec. 32B-9.1. Manufactured homes.
Sec. 32B-9.2. Mechanical and utility equipment.
Sec. 32B-9.3. Federal and State permits.
Sec. 32B-9.4. Openings in enclosures below a structure's lowest floor.
Sec. 32B-10. Sand and gravel operations.
Sec. 32B-11. Variance provisions.
Sec. 32B-12. Appeals.
Sec. 32B-13. Structures in violation of regulations.
Sec. 32B-14. Diversion of water flow.
Sec. 32B-15. Violation as separate offense.
Sec. 32B-16. Severability.
Sec. 32B-17. Floodplain plan review fees.

ARTICLE I.

GENERAL

Sec. 32B-1. Implementation.

To implement the regulation of the floodplain areas in the City of Phoenix, the City Council is designated as the Floodplain Board and the City Engineer is designated as the administrative agent for these regulations.
(Ord. No. G-2027, § 2)

Sec. 32B-2. Definitions.

Area of shallow flooding means a designated zone in which the base flood depths range from one to three feet; a clearly defined channel does not exist; the path of flooding is unpredictable and indeterminate; and high velocity flow may be evident.

Area of special flood hazard means the land within a floodplain which is subject to inundation by the base flood.

Base flood means the flood having a one percent chance of being equalled or exceeded in any given year, i.e., the one-hundred-year flood.

Development means any manmade change to improved or unimproved real estate, including, but not limited to, buildings and other structures, utilities, pipelines, mining, dredging, filling, grading, paving, or excavation located within the area of special flood hazard.

Dwelling unit means any structure usable for residential purposes and which may be located in a single- or multiple-dwelling building, which includes working, sleeping, eating, cooking, recreation facilities, or a combination thereof, except a structure used only for storage purposes.

Flood or *floodwaters* means a temporary overflow of water on land not normally covered by water.

Flood boundary and floodway maps (FBFM) means the official map for the community on which the Federal Insurance Administration has delineated the area of special flood hazard and the selected floodway.

Flood insurance rate maps (FIRM) means the official maps on which the Federal Insurance Administration has delineated both the areas of special flood hazard and the risk premium insurance rates applicable to the community.

Flood insurance study means the official report provided by the Federal Insurance Administration that includes flood profiles, the flood boundary and floodway maps, and the water surface elevations of the base flood.

Floodplain means the relatively flat area adjoining the channel of a watercourse, or areas where drainage is or may be restricted by natural or manmade structures which may have been or may be covered partially or wholly by floodwater from a base flood.

Floodplain Board or *Board* means the City Council acting as the "Floodplain Board."

Floodway fringe area means that portion of the area of special flood hazard that is not included in the selected floodway.

Lowest floor means the lowest floor of the lowest enclosed area (including basement). An unfinished or flood resistant enclosure, usable solely for parking of vehicles, building access or storage, in an area other than a basement area, is not considered a building's lowest floor, provided that such enclosure is not built so as to render the structure in violation of the applicable non-elevation design requirements of this ordinance.

Manufactured home means a structure, transportable in one or more sections, which is built on a permanent chassis and is designed for use with or without a permanent foundation when connected to the required utilities. For floodplain management purposes the term "manufactured home" also includes park trailers, travel trailers, and other similar vehicles placed on a site for greater than one hundred eighty consecutive days. For insurance purposes the term "manufactured home" does not include park trailers, travel trailers, and other similar vehicles.

Manufactured home park or subdivision means a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

Mean sea level means, for purposes of the National Flood Insurance Program, the National Geodetic Vertical Datum (NGVD of 1929) or other datum, to which base flood elevations shown on a community's flood insurance rate map are referenced.

Person means any individual or his agent, firm, partnership, association, corporation, or any agent of the aforementioned groups, or a federal, State, County or municipal government agency or political subdivision thereof.

Reasonable alteration or repair means any modification or improvement to existing facilities in which the total cost does not exceed fifty percent of the real cash value assessed at the commencement of construction. A reasonable alteration, however, should not be construed to mean any improvement which would increase the flood hazard to that property or the properties of surrounding homes.

Regulatory flood elevation means the elevation which is one foot above the "base flood" elevation for a "watercourse" for which the "base flood" elevation has been determined and shall be as determined by the criteria developed by the City Engineer for all other watercourses.

Selected floodway means the limits, as determined by the City Engineer, where the permitted encroachment in the floodplain will allow passage of the one-hundred-year flood without increasing the flood heights more than one foot. Additional hydraulic criteria such as maximum flow velocities of five feet per second at the limits of the selected floodway, smooth transitions around developments, and equal conveyance removal from each side will be used in computing the lines of the selected floodway.

Start of construction includes substantial improvement, and means the date the

building permit was issued, provided the actual start of construction, repair, reconstruction, placement, or other improvement was within one hundred eighty days of the permit date. The actual start means either the first placement of permanent construction of a structure on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the state of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure.

Structure means a walled and roofed building or "manufactured home" that may or may not be habitable, may or may not be constructed on a permanent foundation, and was manmade.

Substantial improvement means any repair, reconstruction or improvement of a structure, the cost of which equals or exceeds fifty percent of the market value of the structure either before the improvement or if the structure was damaged and is being restored, before the damage occurred. A substantial improvement will not be permitted nor should it be construed to mean any modification which will increase flood hazard risk.

Violation means the failure of a structure or other development to be fully compliant with the community's floodplain management regulations. A structure or other development without the elevation certificate, other certifications, or other evidence of compliance required by this chapter is presumed to be in violation until such time as that documentation is provided.

Watercourse means any lake, river, creek, stream, wash, arroyo, channel, or other body of water having banks and bed through which waters flow at least periodically. The term may include specifically designated areas in which flood damage may occur. (Ord. No. G-2027, § 2; Ord. No. G-3092, § 2)

Cross References: Definitions and rules of construction generally, § 1-2.

ARTICLE II.

REGULATIONS

Sec. 32B-3. Maps.

The areas of special flood hazard and the selected floodway for designated floodplains are shown on the current maps labeled "FIRM" and "Floodway," or as they may subsequently be amended, on file with the City Engineer, which maps are incorporated herein by reference. The maps are consistent with the criteria established by

the Arizona Department of Water Resources and Federal Emergency Management Agency. New or additional engineering data may be considered for re-evaluation of floodplain and floodway delineations if circumstances indicate such action is in the public interest. Any such scientific or technical data will be submitted to the office of the City Engineer for review and conformance with established policy.
(Ord. No. G-2027, § 2; Ord. No. G-2641, § 1; Ord. No. G-3092, § 3)

Sec. 32B-4. Classification of floodplains.

To encourage the safe and orderly development of floodplain land, the Board recognizes that the floodplains consist of two distinct areas: the floodway fringe area having lower water velocities and shallower depths of flow and, the selected floodway which contains greater flow depths and damaging velocities. The Board also recognizes that encroachment into the floodway fringe area will not substantially increase the flood hazard to adjoining properties. It is also recognized that development and construction within the selected floodway will require higher standards of engineering and construction than development within the floodway fringe area in order to insure that there is no substantial hazard to such development or construction and that it does not create a substantial hazard to other property within the floodplain.
(Ord. No. G-2027, § 2)

Sec. 32B-5. Regulation.

In order to promote the public health, safety and general welfare, the Floodplain Board will enforce the following regulations:

1. No person may either obstruct, divert, or reduce the capacity within the area of special flood hazard by constructing any development or altering the width or course of said floodways except as provided in these regulations.

2. Construction and development may occur within the floodway fringe and the areas of shallow flooding provided that the City Engineer review and approve all such requests for building permits prior to issuance by the Building Official. The City Engineer will ascertain that the proposed construction will incorporate appropriate floodproofing measures to the "regulatory flood elevation," or that the "lowest floor" is above the "regulatory flood elevation." A "dwelling unit" shall be so constructed so as to place the "lowest floor" elevation of the "dwelling unit" above the "regulatory flood elevation." Appropriate floodproofing measures may include, but not be limited to: providing access during flood events, maintaining electrical, water, and sewer services, designing foundations and structures to withstand hydraulic loadings expected during the base flood and designing windows, doorways and other openings located below the level of the base flood to prevent the entrance of floodwaters. Any

applicant for a building permit has the burden of furnishing the Development Services Director satisfactory evidence to enable him to either determine that the applicant's property does not fall within the area of special flood hazard or that there is no substantial hazard, either to the proposed development or to the property.

3. Construction and development may be permitted within the selected floodway subject to review and approval by the City Engineer, on an individual permit basis; however, no development in the selected floodway will be allowed which will increase the water surface elevation of the base flood.

4. These regulations do not affect the existing use of property in the areas of special flood hazard or the right to the continuation of that use, nor do they affect the reasonable repair or alteration of property for the purpose for which such property was lawfully used on February 12, 1974.

5. Any substantial improvements to existing structures must conform to the requirements of this chapter.

6. New developments which provide on-site waste disposal systems must locate them outside the boundary of the base flood.

7. Within one hundred twenty days after completion of any flood control project, the areas of special flood hazard and the selected floodway in the area benefited by such works will be redefined.

8. Any new building or development located or maintained within the area of special flood hazard must have prior written authorization from the City Engineer, except as specified in 32B-8 and 32B-10 of these regulations.

9. The owner must have a registered professional engineer, or registered land surveyor, certify to the Development Services Director the actual elevation of the minimum finished floor of any new or substantially improved structure located within the area of special flood hazard. A record of these certifications shall be maintained with the Development Services Director. In addition, where a nonresidential structure is intended to be made watertight below the base flood level, a registered professional engineer or registered architect shall develop and/or review structural design, specifications, and plans for the construction, and shall certify that the design and methods of construction are in accordance with accepted standards of practice for meeting the applicable provisions of this section. A record of such certification which includes the specific elevation (in relation to mean sea level) to which such structures are floodproofed shall be maintained with the Development Services Director.

10. The City Engineer and the Development Services Director will obtain and maintain for public inspection, all records pertaining to the provisions of this ordinance.

11. No development shall increase the one-hundred-year twenty-four-hour peak or the one-hundred-year two-hour peak whichever is higher. Nor shall the time of the peak change or the total runoff exceed the pre-development total runoff.

12. In areas of special flood hazard without a selected floodway or its flood insurance rate map (FIRM) [or] flood insurance flood boundary and floodway maps (FBFM): No new flood boundary and floodway maps, construction, substantial improvements, or other development (including fill) shall be permitted unless it is demonstrated that the cumulative effect of the proposed developments, when combined with all other existing and proposed developments will not increase the water surface elevation of the base flood more than one foot at a point within the community.

(Ord. No. G-2027, § 2; Ord. No. G-3092, § 4; Ord. No. G-3313, § 1)

Sec. 32B-6. Interim elevations.

When base flood elevations and delineations are not available due to recent annexation or other causes, the City Engineer may obtain, review, and reasonably utilize any base flood elevation data available from a federal, State, County or other political subdivision for the purpose of securing a base flood determination, until such time as the Federal Emergency Management Agency has published the final FIRM (flood insurance rate maps) and FBFW (flood boundary and floodway maps).
(Ord. No. G-2027, § 2; Ord. No. G-3313, § 1)

Sec. 32B-7. Coordination in floodplain management.

The Floodplain Board may adopt other regulations which provide for coordination with all other interested and affected political subdivisions and State agencies and may enter into agreements for cooperative regulations, planning, designs, and construction. The Development Services Director shall advise the Flood Control District of Maricopa County and any other adjacent jurisdiction having responsibility for floodplain management, in writing, and provide a copy of any development plan of all applications for floodplain use permits or variances to develop land in a floodplain or floodway within one mile of the boundary between the City's area of jurisdiction and the area of jurisdiction of the District. The Development Services Director shall also advise the District and any adjacent jurisdiction having responsibility for floodplain management in writing and provide a copy of any development plan of any major development proposed within a floodplain or floodway which could affect floodplains, floodways or watercourses outside the City's area of jurisdiction. Written notice and a copy of the plan of development shall be sent to any adjacent jurisdiction no later than

three working days after having been received.
(Ord. No. G-2027, § 2; Ord. No. G-3092, § 5; Ord. No. G-3313, § 1)

Sec. 32B-8. Non-prohibited construction.

Written authorization shall not be required nor shall the Floodplain Board prohibit:

1. The construction of bridges, culverts, dikes, and other structures necessary to the construction of public highways, roads, and streets intersecting or crossing a watercourse.

2. The construction of storage dams for watering livestock or wildlife structures on banks of a creek, stream, river, wash, arroyo or other watercourses to prevent erosion of or damage to adjoining land, or dams for the conservation of floodwaters as permitted by A.R.S. tit. 45, ch. 3.1 (A.R.S. § 45-801.01 et seq.).

3. Construction of tailing dams and waste disposal areas for use in connection with mining and metallurgical operations.

(Ord. No. G-2027, § 2)

Sec. 32B-9. Reserved.

Editors Note: Section 32B-9 was repealed; see Ord. No. G-3092, § 6.

Sec. 32B-9.1. Manufactured homes.

Any manufactured homes to be placed within the area of special flood hazard shall be installed using methods and practices which minimize flood damage. For the purposes of this requirement, manufactured homes must be elevated so that the bottom of the structural frame or the lowest point of any attached appliances, whichever is lower, is at or above the regulatory flood elevation and anchored to resist flotation, collapse, or lateral movement. Methods of anchoring may include, but are not limited to, use of over-the-top or frame ties to ground anchors. This requirement is in addition to applicable State requirements.
(Ord. No. G-3092, § 6)

Sec. 32B-9.2. Mechanical and utility equipment.

Electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities shall be designed and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding.
(Ord. No. G-3092, § 6)

Sec. 32B-9.3. Federal and State permits.

All development located within an area of special flood hazard shall obtain all permits required by State and federal law, specifically that required by section 404 of the Federal Water Pollution Control Amendments of 1972.
(Ord. No. G-3092, § 6)

Sec. 32B-9.4. Openings in enclosures below a structure's lowest floor.

For all new construction and substantial improvements, fully enclosed areas below the lowest floor that are subject to flooding shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs for meeting this requirement must either be certified by a registered professional engineer or architect or must meet or exceed the following minimum criteria:

A minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided. The bottom of all openings shall be no higher than one foot above grade. Openings may be equipped with screens, louvers, or other coverings or devices provided that they permit the automatic entry and exit of floodwaters.
(Ord. No. G-3092, § 6)

Sec. 32B-10. Sand and gravel operations.

Sand and gravel operations are allowed within the floodplain subject to the following conditions:

1. Within the selected floodway, sand and gravel operations may be conducted without permit provided that:

   (a) The operations are restricted to [the] extraction of sand and gravel for commercial purposes; and

   (b) Excavations are not so located nor of such depth as to present a hazard to other development, including, but not limited to, roads, bridges, culverts, and utilities.

2. No stockpiling, within the selected floodway, of material or tailings that may obstruct, divert, or retard the flow of floodwaters will be permitted except as reviewed and approved by the City Engineer, on an individual permit basis.

3. Stockpiling of sand and gravel products within the floodway fringe area may be done without permit provided that the operator furnishes the City Engineer satisfactory evidence that such stockpiling is within the floodway fringe area rather than in the selected floodway.

4. Excavations for sand and gravel for commercial purposes within the floodway fringe area which exceed the definitions contained in section 32A-6, paragraph (b)(1) [sic] (Grading and Drainage) of the City Code will be permitted subject to review and approval by the City Engineer, on an individual permit basis.

(Ord. No. G-2027, § 2)

Sec. 32B-11. Variance provisions.

A. The City Engineer may authorize variances from the terms of this chapter when a literal enforcement of any provisions of this ordinance would result in an unnecessary property hardship and when evidence is presented demonstrating to the satisfaction of the City Engineer that all of the following conditions are fulfilled:

1. That special conditions and circumstances exist which are peculiar to the land or structure involved and which are not applicable to other lands or structures within the same general area such as a new structure to be erected on a lot of one-half acre or less, contiguous to and surrounded by lots with existing structures built below the level of the base flood; and

2. That the alleged hardships caused by literal interpretation of the provisions of this chapter are property hardships which include more than personal inconvenience and financial hardships, and do not result from the action of the owner or the applicant; and

3. That the variances will not be detrimental to persons residing or working in the vicinity and to adjacent property, to the neighborhood and to the public welfare in general; and

4. That the variance is the minimum variance that will make possible the reasonable use of the land or structure; and

5. That appropriate and specific conditions have been stipulated by the City Engineer in connection with the variances as may be deemed necessary in order to fully carry out the intent of the Floodplain Ordinance. The stipulation may include, among other things, a requirement that the applicant insert a note on any future deed or other conveyance of the property stating that the property is located in a floodprone area. The notice will include the number of feet that the lowest non-floodproofed floor of the proposed structure is below the base flood level and a statement that the actuarial flood insurance rates increase as the first floor elevation decreases. A violation of any condition shall be considered a violation of the Floodplain Ordinance and such violation shall render the variance null and void; and

6. That the burden of proof in all matters heard by the City Engineer shall rest with the applicant. The granting of a variance is a matter of grace, resting on the discretion of the City Engineer, and a refusal is not a denial of a right, conditional or otherwise.

B. A variance will be issued for the reconstruction, rehabilitation, or restoration of all structures listed on the National or State Register of Historic Places or the State inventory of historic places, without regard to conflicting procedures and provisions set forth in this section.
(Ord. No. G-2027, § 2)

Sec. 32B-12. Appeals.

Appeals from decisions of the City Engineer in application of these regulations may be taken to the Development Advisory Board acting as the Floodplain Appeal Board. Any person aggrieved by a decision of the Floodplain Appeal Board may bring special action in a court of competent jurisdiction. The Floodplain Appeal Board, when reviewing an appeal from a decision of the City Engineer, shall follow the rules and standards set forth in this ordinance.
(Ord. No. G-2027, § 2; Ord. No. G-3313, § 1; Ord. No. G-4176, § 13, passed 5-19-1999, eff. 6-18-1999)

Sec. 32B-13. Structures in violation of regulations.

Except as provided in paragraphs 32B-8 and 32B-10, all new development located or maintained within any area of special flood hazard in violation of the regulations of this chapter and without written authorization from the Floodplain Board or the City Engineer as administrative agent of the Floodplain Board is hereby declared to be a public nuisance per se and may be abated, prevented or restrained by action of the City.
(Ord. No. G-2027, § 2)

Sec. 32B-14. Diversion of water flow.

A. It is unlawful for any person to divert, retard, or obstruct any watercourse in the City of Phoenix whenever such action creates a hazard to life or property without securing the written authorization required by the preceding regulations.

B. Any person violating the provisions of this section shall be guilty of a misdemeanor.
(Ord. No. G-2027, § 2)

Sec. 32B-15. Violation as separate offense.

Each day of violation of these regulations shall constitute a separate offense.

(Ord. No. G-2027, § 2)

Sec. 32B-16. Severability.

If any provision of this ordinance is held invalid, such invalidity shall not affect other provisions which can be given effect without the invalid provision, and to this end the provisions of this ordinance are declared to be severable.
(Ord. No. G-2027, § 2)

Sec. 32B-17. Floodplain plan review fees.

The Development Services Director shall collect the fees set forth in this section before providing floodplain plan review services:

FLOODPLAIN PLAN REVIEW
FEE SCHEDULE
Effective September 1, 1987

1. Generated through grading and drainage review:

   $240.00/plan sheet for office review.

   $170.00/plan sheet for third review and each thereafter.

   $240.00/plan sheet for revisions to approved plans.

   $125.00/plan sheet for updates to approved plans.

2. Generated through building safety check:

   $17.00/form, finished floor requirement. (Form 126-225D Rev.)

   $240.00/plan sheet for office review.

(Ord. No. G-2217, § 1; Ord. No. G-2226, § 2; Ord. No. G-2512, § 1; Ord. No. G-2629, § 1; Ord. No. G-2787, § 1; Ord. No. G-3011, § 1; Ord. No. G-3127, § 3)

Cross References: Development Services Department fee schedule, app. A.2.

City of Phoenix
ENGINEERING & ARCHITECTURAL SERVICES DEPARTMENT
200 West Washington Street, 7th Floor
Phoenix, Arizona 85003-1611

Date: July 21, 2004

To: Whom It Might Concern

From: Michael Bornhoeft, Project Manager
MB Engineering and Architectural Services Dept.

Subject: Maintenance of Bridge at Sweetwater Park site
at Cave Creek Regional Park

The bridge is located 200 feet north of a large sediment basin created by the Army Corps of Engineers. The bridge spans the wash which is normally dry. The wash is considered "Waters of the United States" and maintenance in the wash is subject to 404 permit requirements. The wash is inspected routinely by Maricopa County Flood Control District. It is also watched by the City of Phoenix Parks and Recreation Department, as it passes through City property.

The bridge is an important pedestrian linkage between the east and west sides of the park. The bridge is not intended for vehicular traffic, only foot traffic and designed to meet AASHTO requirements for pedestrian bridges. The bridge is a pre-manufactured structure which was assembled on site. Very little maintenance is anticipated. The City Parks Department is on site daily performing routine maintenance of the park. Observations of the bridge with respect to safety would occur frequently.

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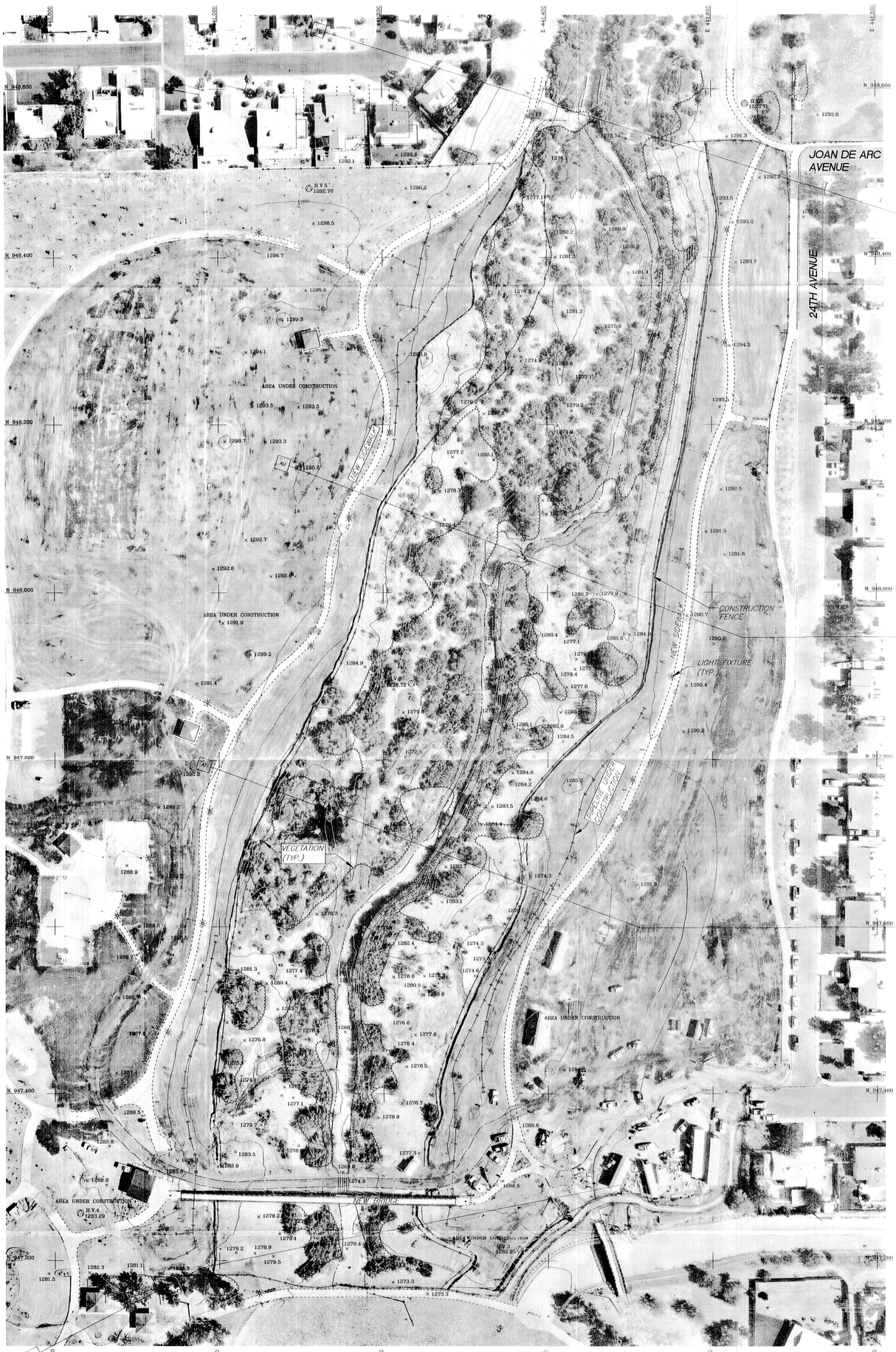

LETTER OF MAP REVISION

SWEETWATER PARK
SITE PLAN/AERIAL

CONSULTANT

DRAWN BY: C.S.
APPROVED BY: J.H.
SCALE : 1"=50'
DATE : 07/07/04

JZ PROJ #: 2016.2
JZ DWG #: DTM.DWG

DRAWING NO: SHEET NO:
PLATE1 1 OF 1

REVISIONS/ISSUED
NO. | TY/MM/DD | ISSUE
CLIENT

LEGEND

SEAL

engineering and environmental design
8222 S 48TH STREET, SUITE 135
PHOENIX AZ. PH:(602)438-2221
USA 85044 FAX:(602)438-2225
www.jzdesigns

P:\2016\2016.2\Cadd\CM2000\dwg\dtm.dwg, cspencer, 2004/10/20-10:26

LEGEND

FLOOD PLAIN

FLOOD WAY

SEAL

engineering and environmental design

8222 S 48TH STREET, SUITE 135
PHOENIX AZ. PH:(602)438-2221
USA 85044 FAX:(602)438-2225

LETTER OF MAP REVISION

SWEETWATER PARK
SITE PLAN WITH FLOOD ZONE

REVISIONS/ISSUED	
NO.	YY/MM/DD
ISSUE	

CLIENT

CONSULTANT

DRAWN BY:	C.S.
APPROVED BY:	J.H.
SCALE :	1"=50'
DATE :	07/07/04
J2 PROJ #:	2016.2
J2 DWG #:	DTM.DWG
DRAWING NO.	SHEET NO.
PLATE2	1 OF 1