WEEKS WASH DAM ON THE POWERLINE FRS

FILE NO.	NAME	DESCRIPTION	CARD
	WEEKS WASH	SCS. STUDY	2/2

MARICOPA COUNTY
HIGHWAY DEPARTMENT

DISTRIBUTED BY SOUTHWEST MICROFILM – PHOENIX, ARIZONA

3027C Zion, Ill. U.S.A.

FILE NO.	NAME	DESCRIPTION	CARD
	WEEKS WASH	SCS. STUDY	1/2

MARICOPA COUNTY
HIGHWAY DEPARTMENT

DISTRIBUTED BY SOUTHWEST MICROFILM – PHOENIX, ARIZONA

3027C Zion, Ill. U.S.A.

FILE NO.	NAME	DESCRIPTION	CARD
	WEEKS WASH	SCS. STUDY	1/4

MARICOPA COUNTY
HIGHWAY DEPARTMENT

DISTRIBUTED BY SOUTHWEST MICROFILM – PHOENIX, ARIZONA

3027C Zion, Ill. U.S.A.

FILE NO.	NAME	DESCRIPTION	CARD
	WEEKS WASH	SCS. STUDY	2/4

MARICOPA COUNTY
HIGHWAY DEPARTMENT

DISTRIBUTED BY SOUTHWEST MICROFILM – PHOENIX, ARIZONA

3027C Zion, Ill. U.S.A.

FILE NO.	NAME	DESCRIPTION	CARD
	WEEKS WASH	SCS. STUDY	3/4

MARICOPA COUNTY
HIGHWAY DEPARTMENT

DISTRIBUTED BY SOUTHWEST MICROFILM – PHOENIX, ARIZONA

3027C Zion, Ill. U.S.A.

FILE NO.	NAME	DESCRIPTION	CARD
	WEEKS WASH	SCS. STUDY	4/4

MARICOPA COUNTY
HIGHWAY DEPARTMENT

DISTRIBUTED BY SOUTHWEST MICROFILM – PHOENIX, ARIZONA

3027C Zion, Ill. U.S.A.

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
3651 II SE
(STEWART MTN)

APACHE JUNCTION QUADRANGLE
ARIZONA
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
3751 III SW
(MORMAN FLAT DAM)

WEEKS WASH - POWERLINE DAM
TR-20 SCHEMATIC MAP

9/20/85
Hem

#1

Figure D-1

Weekes Wash Cross Sections
for HEC-1 Analysis for Breakout

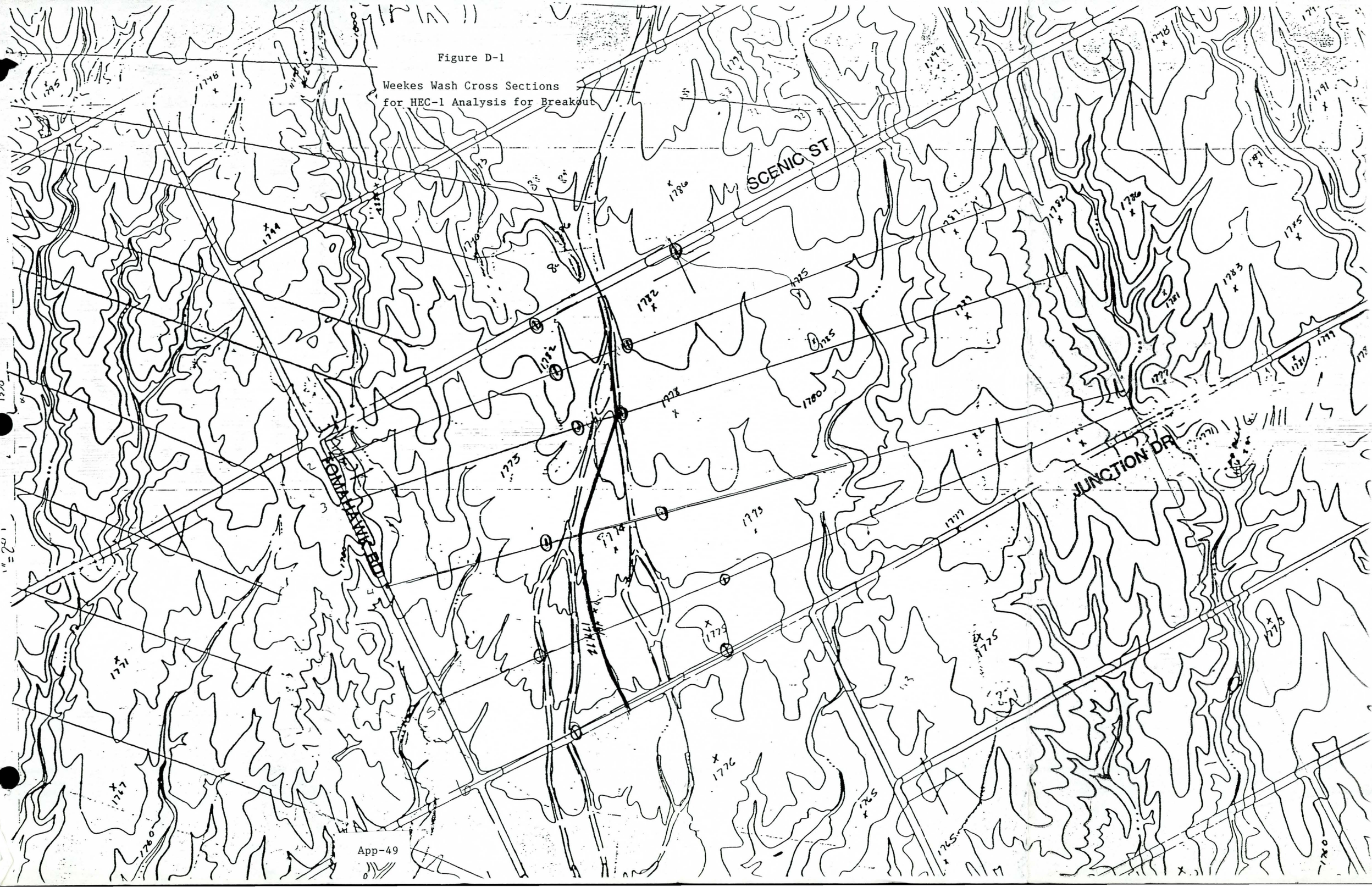


Figure D-1

Weekes Wash Cross Sections
for HEC-1 Analysis for Breakout

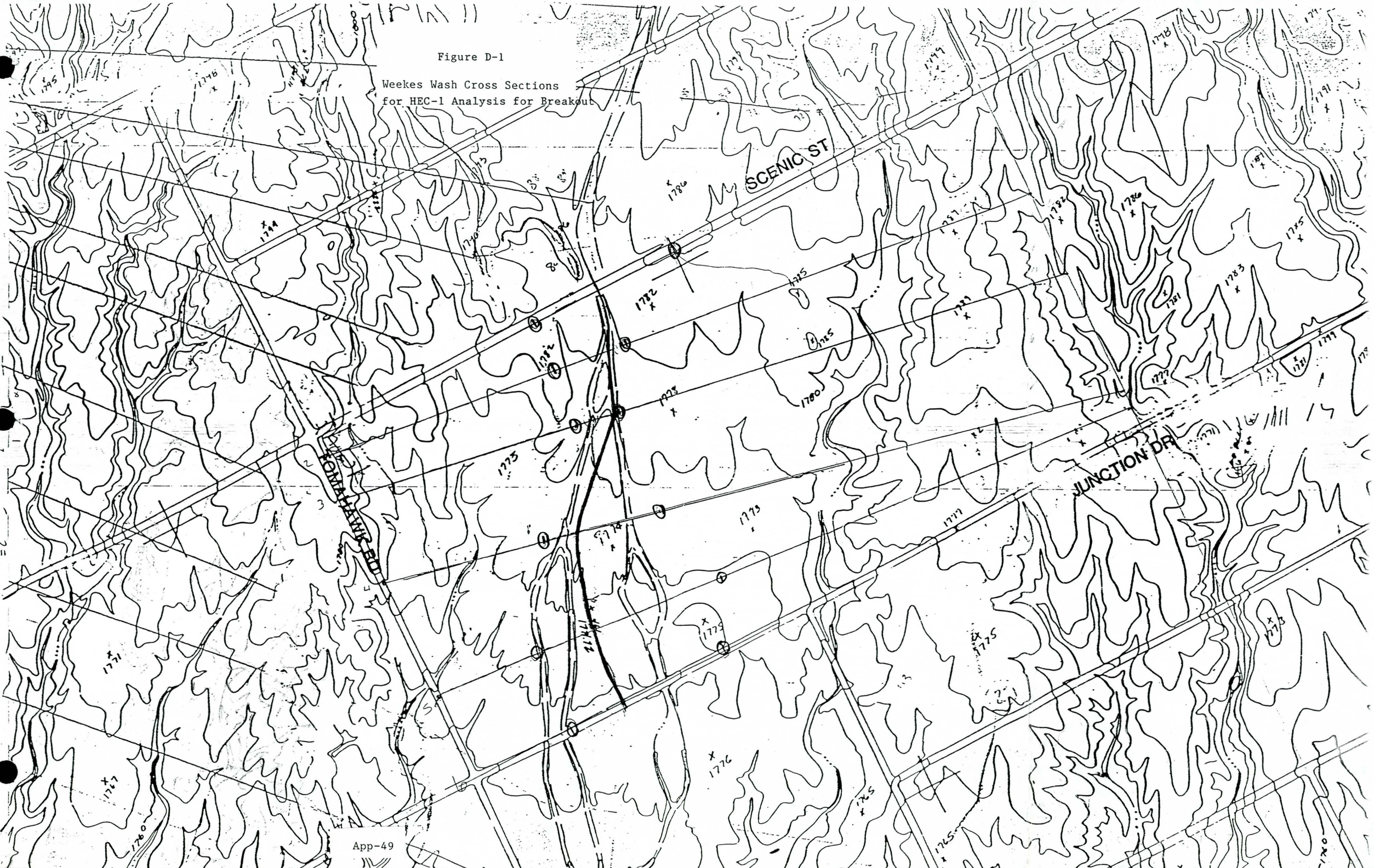


Figure D-1

Weekes Wash Cross Sections
for HEC-1 Analysis for Breakout

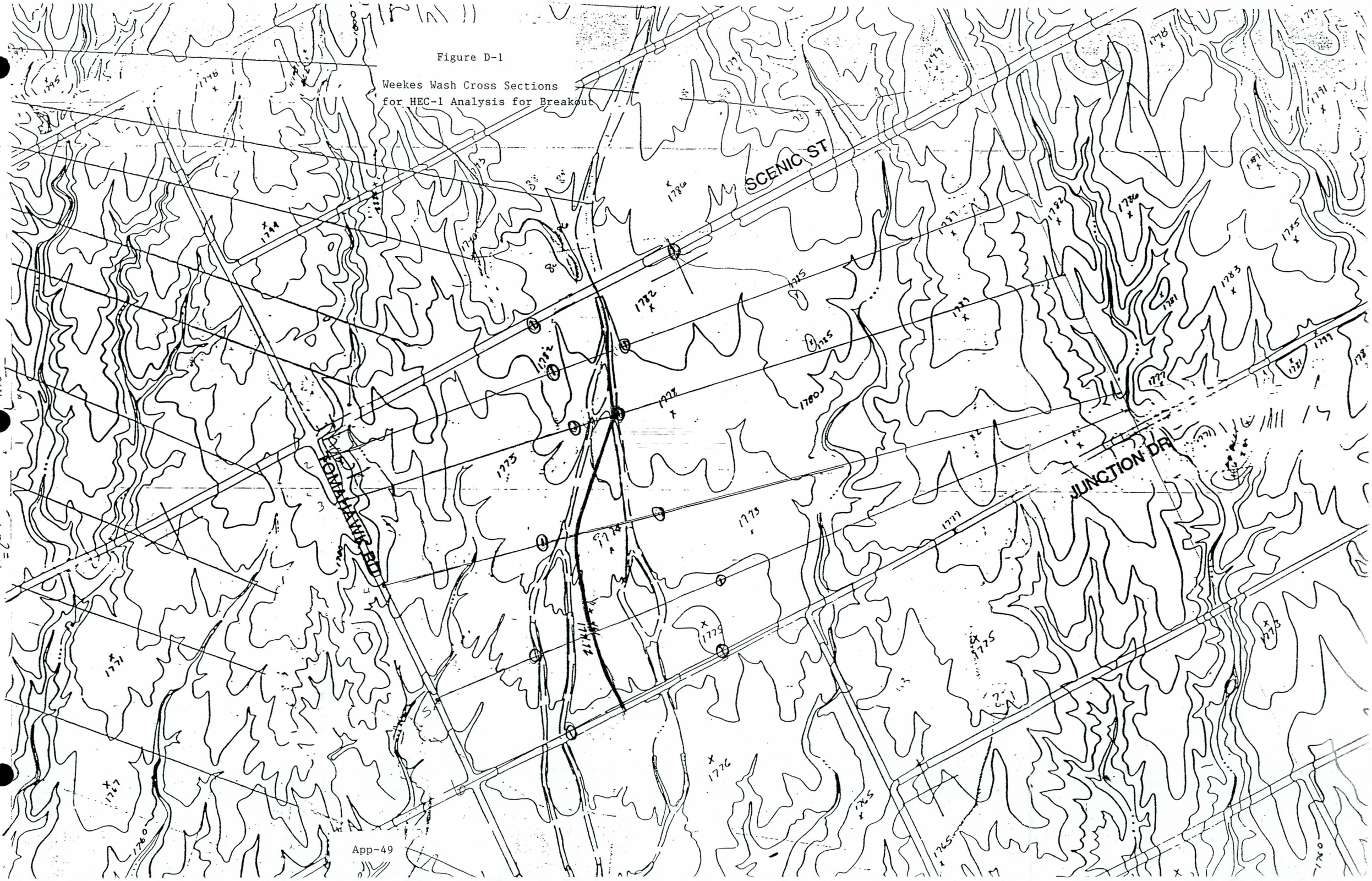


Figure E-3

North Diversion Detention Basin Plan

(Reference 3)

SUPERSTITION FREEWAY
POWER RD TO US 60-PHASE II
MARICOPA/PINAL COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-029-1-513			

Soil Cement DETAIL A G607

Top of Overflow Spillway Elev 1630.1

10'

Sta EB 1262+70, 388' Lt

Slope 16 Elev 1623.5

Slope to Elev 1623.5

See Sheet C614

Slope to Elev 1623.5

Sta EB 1262+70, 160' Lt

Sta EB 1267+62, 371' Lt

Sta EB 1267+62, 186' Lt

100 Year Event
Water Surface Elev = 1629.2
Storage Volume = 29.3 Ac-Ft

See Roadway Plans for Ditch Details

Slope 3:1

STA 1275+00

25+00

20+00

15+00

1265+00

1270+00

10+00

35+00

WB Cst E

EB Cst E

Ramp I-D

Ramp I-C

2-10'x6'=156' Box Culvert See Sheet C614

BM Sta EB 1265+70, 65' Rt
A.D.O.T. Aluminum Cup in 12" Dia Concrete 6" Above Ground Stamped Dutch P&M G.S. (1974) El. 1632.65

BM No. T27
Sta EB 1270+00, 155' Rt
5/8" Rebar, El. 1632.50

MATCH LINE

CI=1.0'

50 0 50 100 150 FEET

12" Soil Cement (2-6" Lifts)

2'

2'

SECTION (2) C655 C654, C655, C658

Exst North Diversion Levee

Exst Channel

Exst Ground Line

Detention Basin Bottom

1632
1630
1628
1626
1624
1622

200 100 300

SECTION (1)

SCHEMATIC
NOT FOR CONSTRUCTION

REDUCED SIZE
DO NOT SCALE

	NAME	DATE
DESIGN	P. PATERSON	6-97
DRAWN	L. TAPP	6-97
CHECKED	R. BRAATEN	11-97

TUDOR ENGINEERING COMPANY

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETENTION BASIN PLAN
SUPERSTITION FREEWAY
STA 1260+00 TO STA 1275+00

DISTRICT	PROJECT	LOCATION
SR 360	16.39-27.13	POWER RD TO US 60

SHEET C653 OF C672

Figure E- 3 (continued)

North Diversion Detention Basin Plan

(Reference 3)

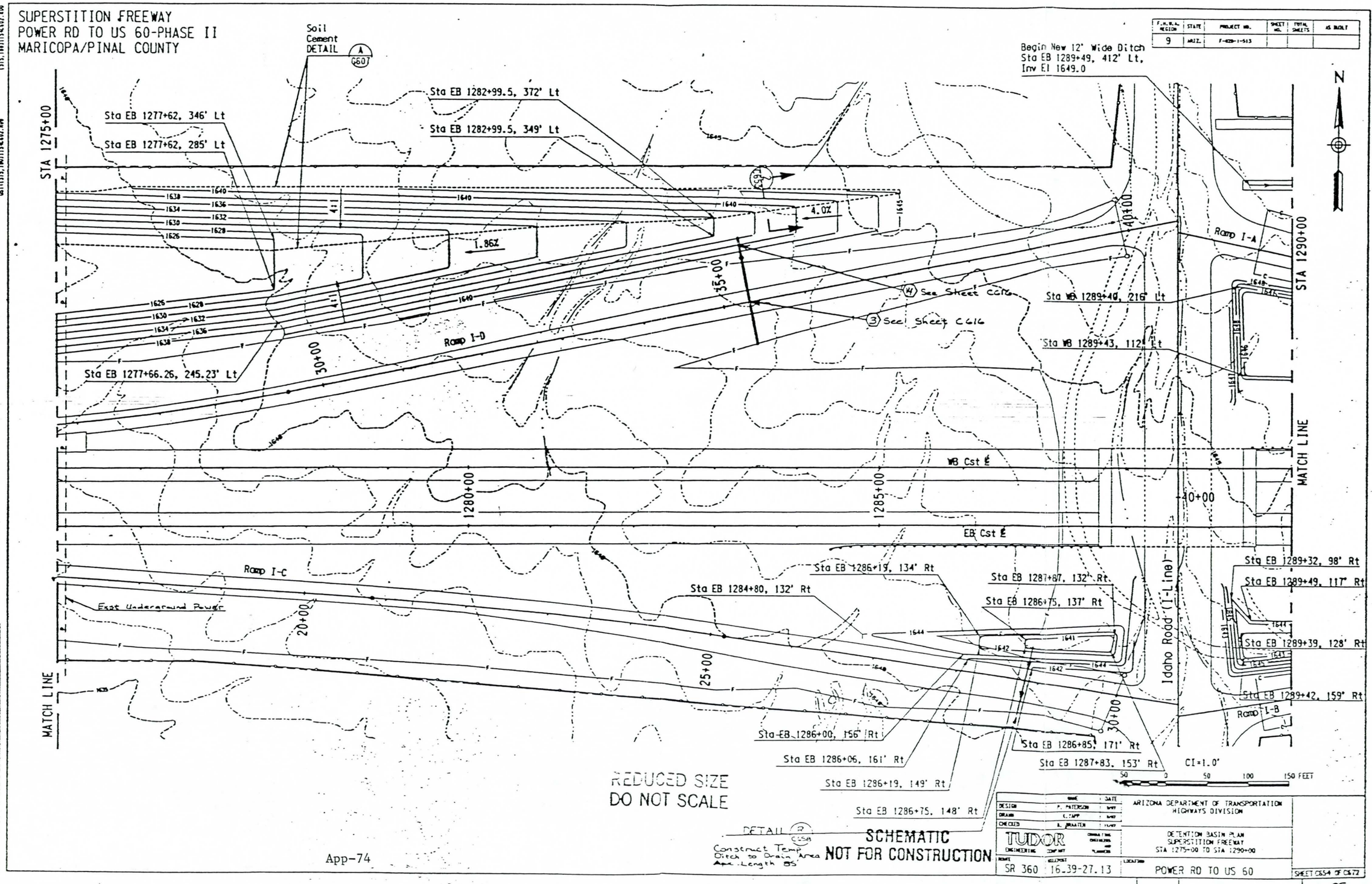


Figure E-3

North Diversion Detention Basin Plan

(Reference 3)

SUPERSTITION FREEWAY
POWER RD TO US 60-PHASE II
MARICOPA/PINAL COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-029-1-513			

Soil Cement DETAIL A G607

Top of Overflow Spillway Elev 1630.1

10'

Sta EB 1262+70, 388' Lt

Slope to Elev 1623.5

Sta EB 1267+62, 371' Lt

Slope to Elev 1623.5

See Sheet C614

100 Year Event
Water Surface Elev = 1629.2
Storage Volume = 29.3 Ac-Ft

Slope to Elev 1623.5

Sta EB 1267+62, 186' Lt

Sta EB 1262+70, 160' Lt

See Roadway Plans for Ditch Details

Slope 3:1

STA 1275+00

25+00

20+00

15+00

Ramp I-D

WB Cst E

1265+00

1270+00

EB Cst E

Ramp I-C

35+00

10+00

15+00

2-10'x6'x156' Box Culvert
See Sheet C654

BM Sta EB 1265+70, 65' Rt
A.D.O.T. Aluminum Cup in
12" Dia Concrete 6" Above
Ground Stamped Dutch P&W
G.S. (1974) El. 1632.65

BM No. T27
Sta EB 1270+00, 155' Rt
5/8" Rebar, El. 1632.59

MATCH LINE

CI=1.0'

N

50 0 50 100 150 FEET

Exst North Diversion Levee

Exst Channel

Exst Ground Line

Detention Basin Bottom

1632
1630
1628
1626
1624
1622

200 100 300

SECTION 1

12" Soil Cement
(2-6" Lifts)

2'

2'

SECTION 2 C653

C654, C655, C658

SCHEMATIC
NOT FOR CONSTRUCTION

REDUCED SIZE
DO NOT SCALE

	NAME	DATE
DESIGN	P. PATERSON	9-97
DRAWN	E. TAPP	9-97
CHECKED	B. BRAATEN	11-97

TUDOR ENGINEERING

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETENTION BASIN PLAN
SUPERSTITION FREEWAY
STA 1260+00 TO STA 1275+00

DISTRICT	DEVELOPMENT	LOCATION
SR 360	16.39-27.13	POWER RD TO US 60

SHEET C653 OF C672

OF

Figure E- 3 (continued)

North Diversion Detention Basin Plan (Reference 3)

SUPERSTITION FREEWAY
POWER RD TO US 60-PHASE II
MARICOPA/PINAL COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-029-1-513			

Soil Cement DETAIL A C607

Begin New 12' Wide Ditch
Sta EB 1289+49, 412' Lt,
Inv El 1649.0

Sta EB 1277+62, 346' Lt
Sta EB 1277+62, 285' Lt
Sta EB 1282+99.5, 372' Lt
Sta EB 1282+99.5, 349' Lt
Sta EB 1277+66.26, 245.23' Lt
Sta WB 1289+40, 216' Lt
Sta WB 1289+43, 112' Lt
Sta EB 1286+19, 134' Rt
Sta EB 1284+80, 132' Rt
Sta EB 1287+87, 132' Rt
Sta EB 1286+75, 137' Rt
Sta EB 1289+32, 98' Rt
Sta EB 1289+49, 117' Rt
Sta EB 1289+39, 128' Rt
Sta EB 1289+42, 159' Rt
Sta EB 1286+00, 156' Rt
Sta EB 1286+06, 161' Rt
Sta EB 1286+19, 149' Rt
Sta EB 1286+75, 148' Rt
Sta EB 1286+85, 171' Rt
Sta EB 1287+83, 153' Rt

STA 1275+00
STA 1290+00
MATCH LINE
MATCH LINE

Ramp I-D
Ramp I-A
Ramp I-C
Ramp I-B
Idaho Road (T-Line)
East Underground Power
WB Cst E
EB Cst E

4:1
4:1
1.86%
4.0%
CI=1.0'

See Sheet C616
See Sheet C616

REDUCED SIZE
DO NOT SCALE

DETAIL B C658
Construct Temp Ditch to Drain Area Ape. Length 85'

SCHEMATIC
NOT FOR CONSTRUCTION

	NAME	DATE
DESIGN	P. PATERSON	11/97
DRAWN	C. TAPP	11/97
CHECKED	B. BRATEN	11/97

TUDOR ENGINEERING

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETENTION BASIN PLAN
SUPERSTITION FREEWAY
STA 1275+00 TO STA 1290+00

ROUTE	MILEPOST	LOCATION
SR 360	16.39-27.13	POWER RD TO US 60

SHEET C654 OF C672

Figure E-4

Weekes Wash Detention Basin Plan

(Reference 3)

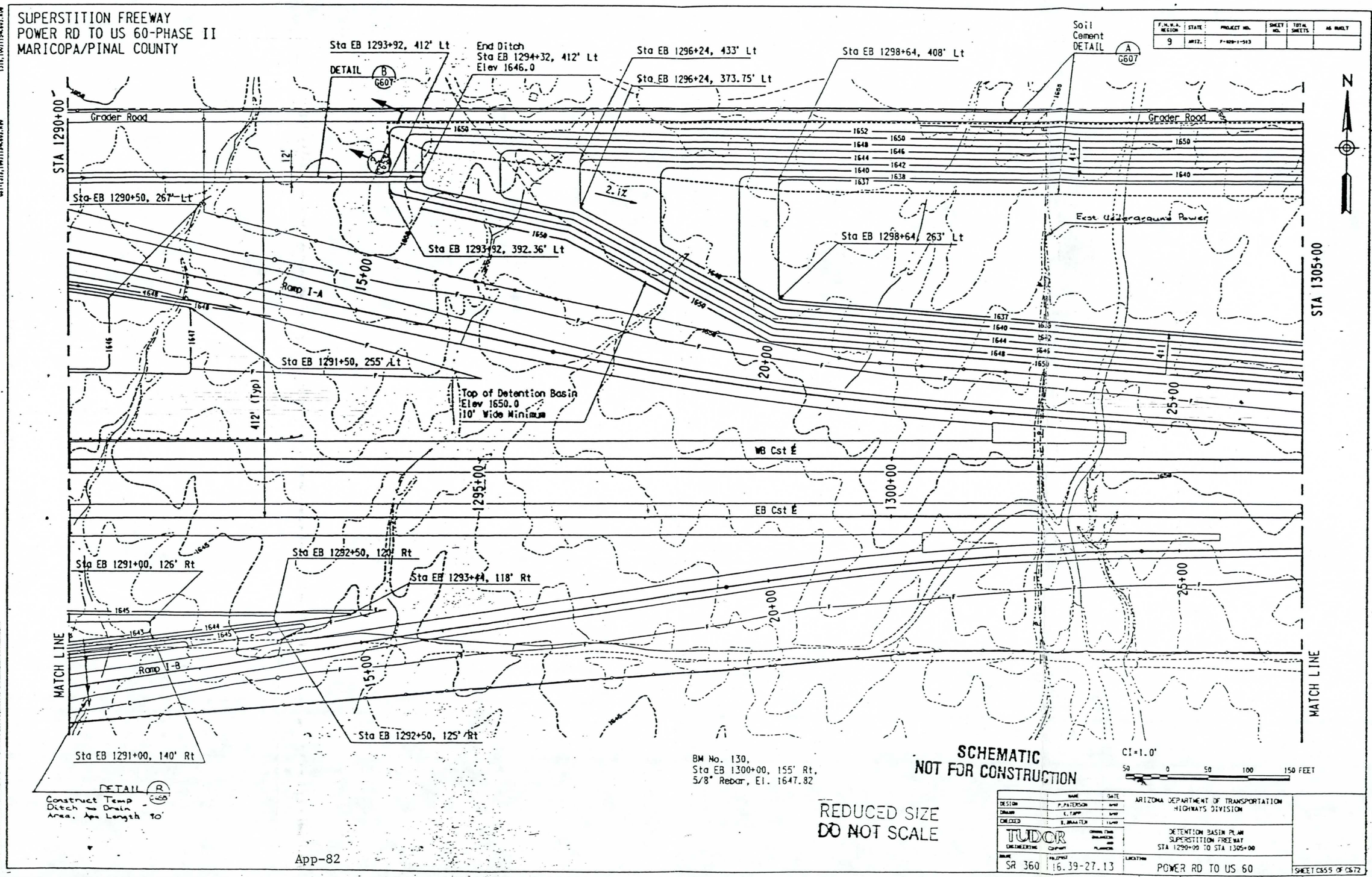


Figure E-4 (continued)

Weekes Wash Detention Basin Plan (Reference 3)

SUPERSTITION FREEWAY
POWER RD TO US 60-PHASE II
MARICOPA/PINAL COUNTY

F.A.P.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-029-1-513			

STA 1305+00

Soil Cement DETAIL A G807

Grader Road

4:1

100 Year Event
Water Surface El = 1648.0
Storage Volume = 177.9 Ac-Ft

Slope To 1636.0

Sta EB 1310+10, 195' Lt

Trail

Grouted Rip-Rap (Typ Both Sides Of Headwall)
El 1636.0 To El 1650.5

200'

10'

Sta EB 1317+09, 200' Lt

STA 1320+00

10+00

15+00

Ramp I-A

WB Cst ℄

EB Cst ℄

STA 1310+00

Ramp I-B

30+00

35+00

Ramp T-D

2-12'x12'x204.3' Box Culvert
See Sheet C626

MATCH LINE

CI=1.0'

50 0 50 100 150 FEET

BM No. 313
Sta EB 1310+00, 155' Rt
5/8" Rebar El. 1650.78

BM Sta EB 1314+19, 65' Rt
A.D.O.T. Aluminum Cap in
12" Concrete Post,
Stamped R.M. #2 "Royal"
PSM G.S. (1974) El. 1652.75

REDUCED SIZE
DO NOT SCALE

SCHEMATIC
NOT FOR CONSTRUCTION

	NAME	DATE
DESIGN	PATTERSON	
DRAWN		
CHECKED		

TUDOR ENGINEERING COMPANY

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETENTION BASIN PLAN
SUPERSTITION FREEWAY
STA 1305+00 TO STA 1320+00

DISTRICT	PROJECT	LOCATION
SR 360	16.39-27.13	POWER RD TO US 60

SHEET C656 OF C672

Figure E-4 (continued)

Weekes Wash Detention Basin Plan

(Reference 3)

SUPERSTITION FREEWAY
POWER RD TO US 60-PHASE II
MARICOPA/PINAL COUNTY

Soil Cement DETAIL A G607

Sta EB 1325+99.88, 459.83' Lt
R=176'

STA 1320+00

Grader Road

Ext Underground Power

Sta EB 1327+65, 366.53' Lt
R=232'

Sta EB 1325+79.58, 384' Lt
R=100'

Grader Road

Sta EB 1327+50, 299.73' Lt
Sta EB 1327+50, 264.52' Lt

2.2%

Ramp T-D

Sta EB 1327+75.63, 189.96' Lt

20+00

25+00

30+00

STA 1335+00

WB Cst E

1325+00

1330+00

EB Cst E

10+00

15+00

20+00

Ramp T-C

BM No. 132
Sta EB 1320+00, 155' Rt,
5/8" Rebar, El. 1653.52

MATCH LINE

MATCH LINE

REDUCED SIZE
DO NOT SC

CI=1.0'

50 0 50 100 150 FEET

SCHEMATIC
NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-020-1-513			

	NAME	DATE
DESIGN	P. PATERSON	
DRAWN	K. [illegible]	
CHECKED	S. BRAATEN	

TUDOR ENGINEERING CONSULTANTS

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETENTION BASIN PLAN
SUPERSTITION FREEWAY
STA 1320+00 TO STA 1335+00

ROUTE	MILEPOST	LOCATION
SR 360	16.39-27.13	POWER RD TO US 60

SHEET C657 OF C672

Figure E-4 (continued)

Weekes Wash Detention Basin Plan

(Reference 3)

SUPERSTITION FREEWAY
POWER RD TO US 60-PHASE II
MARICOPA/PINAL COUNTY

F.A.H.S.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-029-1-513			

Soil Cement DETAIL A G607

Sta EB 1336+24, 358' Lt

Begin Ditch Sta EB 1336+24, 348' Lt Elev 1656.0

Sta EB 1336+40, 374' Lt

STA 1335+00

Culvert - See Roadway Plans For Location (Typ)

See Sheet C632

Sta EB 1336+24, 338' Lt

35+00

Ramp T-D

Retain Existing Slope To Drain To Culvert

East Buried Telephone Cables

Sta EB 1342+22, 283' Lt

Sta EB 1343+03, 260' Lt

Sta EB 1344+25, 235' Lt

Existing Ground (Typ)

2:1 2:1 2'-0

DETAIL R C634 C635

A.P. Sta EB 1345+23, 223' Lt

Sta EB 1345+23, 215' Lt

Sta EB 1345+68, 282' Lt

Ramp T-A

15+00

Sta EB 1346+63, 177' Lt

Sta EB 1345+68, 185' Lt

Sta EB 1345+23, 190' Lt

Sta EB 1343+03, 187' Lt

Sta 1342+22, 183' Lt

Sta EB 1344+25, 188' Lt

East 16" Water

WB Cst ℄

EB Cst ℄

1340+00

1345+00

East Underground Power

Sta EB 1342+21, 198' Rt

Sta EB 1343+75, 123' Rt

Sta EB 1344+56, 118' Rt

Sta EB 1339+60, 131' Rt

Sta EB 1338+51, 126' Rt

Sta EB 1340+36, 130' Rt

Sta EB 1340+87, 129' Rt

25+00

Tomahawk Road

MATCH LINE

Ramp T-C

See Sheet C632

Ditch Inv. El. 1663.5

Ramp T-B

15+00

REDUCED SIZE
DO NOT SCALE

Sta EB 1339+60, 149' Rt

A.P. EB 1339+60, 153' Rt

Sta EB 1340+36, 162' Rt

Sta EB 1340+87, 173' Rt

Future 24" Telephone Conduits

Daylight At Inv. El. 1663.0

Sta EB 1344+56, 148' Rt

Sta EB 1343+75, 152' Rt

Sta EB 1342+21, 178' Rt

DETAIL 3

Construct Ditch To Drain Area. Apx. Length 80'

CI = 1.0'

50 0 50 100 150 FEET

SCHEMATIC
NOT FOR CONSTRUCTION

		DATE
DESIGN	P. PATTERSON	
DRAWN	E. TAPP	
CHECKED	B. BRAATEN	

TUDOR ENGINEERING COMPANY

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETENTION BASIN PLAN
SUPERSTITION FREEWAY
STA 1335+00 TO STA 1350+00

DISTRICT	PROJECT	LOCATION
SR 360	16.39-27.13	POWER RD TO US 60

SHEET C635 OF C672

Figure E-4

Weekes Wash Detention Basin Plan

(Reference 3)

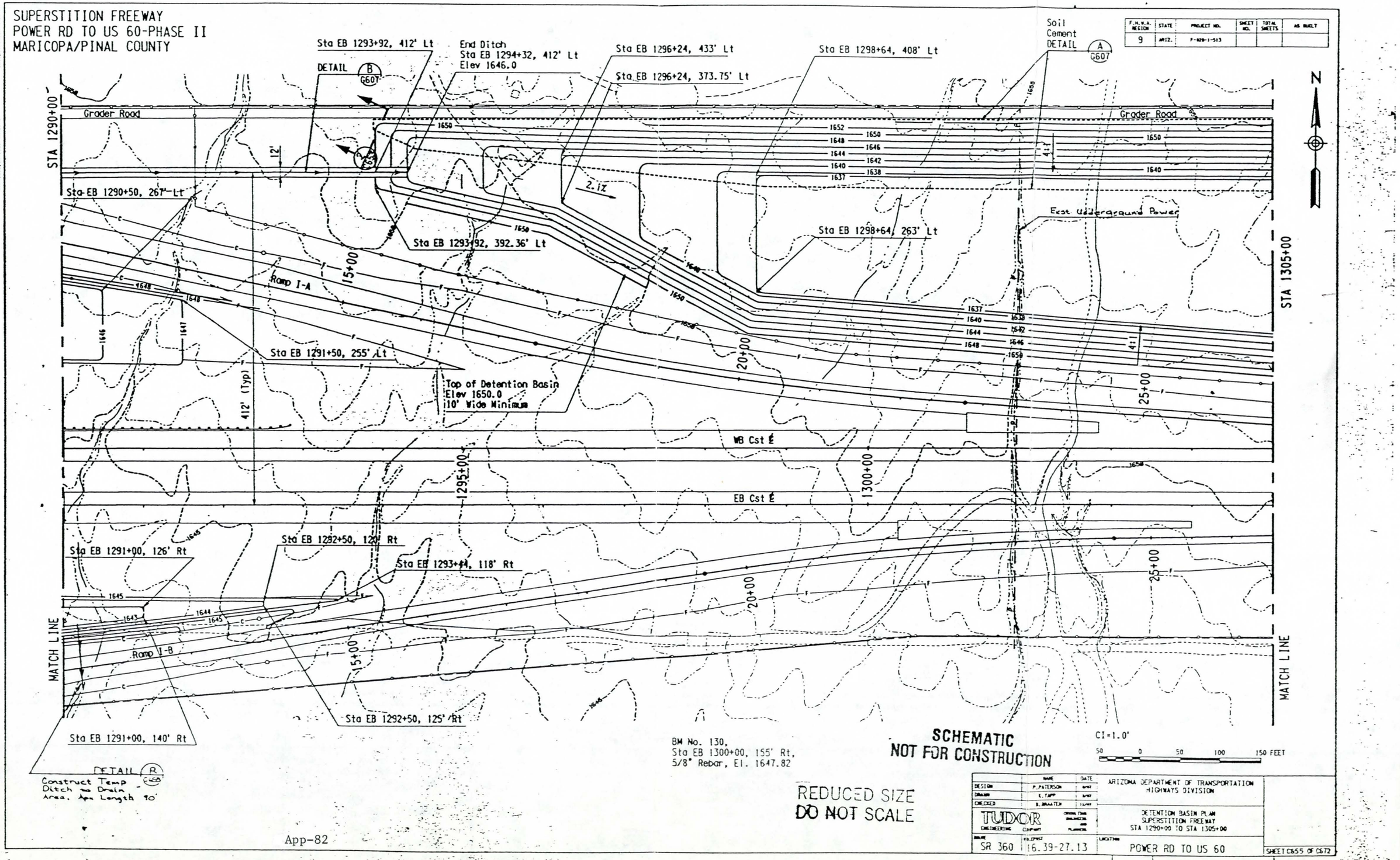


Figure E-4 (continued)

Weekes Wash Detention Basin Plan (Reference 3)

SUPERSTITION FREEWAY
POWER RD TO US 60-PHASE II
MARICOPA/PINAL COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-028-1-513			

STA 1305+00

Soil Cement DETAIL A G807

Grader Road

Slope To 1636.0

Sta EB 1310+10, 195' Lt

Trail

100 Year Event
Water Surface El = 1648.0
Storage Volume = 177.9 Ac-Ft

Grouted Rip-Rap (Typ Both Sides Of Headwall)
El 1636.0 To El 1650.5

200'

10'

10'

Slope To 1636.0

Sta EB 1317+09, 200' Lt

STA 1320+00

Ramp I-A

WB Cst ℄

EB Cst ℄

Ramp I-B

Ramp T-D

10+00

15+00

1310+00

1315+00

30+00

35+00

2-12'x12'x204.3' Box Culvert
See Sheet C226

MATCH LINE

MATCH LINE

CI=1.0'

50 0 50 100 150 FEET

BM No. 313
Sta EB 1310+00, 155' Rt
5/8" Rebar El. 1650.78

BM Sta EB 1314+19, 65' Rt
A.D.O.T. Aluminum Cap in 12" Concrete Post, Stamped R.W. #2 'Royal'
P&M G.S. (1974) El. 1652.75

REDUCED SIZE
DO NOT SCALE

SCHEMATIC
NOT FOR CONSTRUCTION

	NAME	DATE
DESIGN	P.PATERSON	6/97
DRAWN	C.TAPP	6/97
CHECKED	B.BRAATEN	11/97

TUDOR ENGINEERING COMPANY

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETENTION BASIN PLAN
SUPERSTITION FREEWAY
STA 1305+00 TO STA 1320+00

ROUTE NO.	MILEPOST	LOCATION
SR 360	16.39-27.13	POWER RD TO US 60

SHEET C556 OF C672

Figure E-4 (continued)

Weekes Wash Detention Basin Plan

(Reference 3)

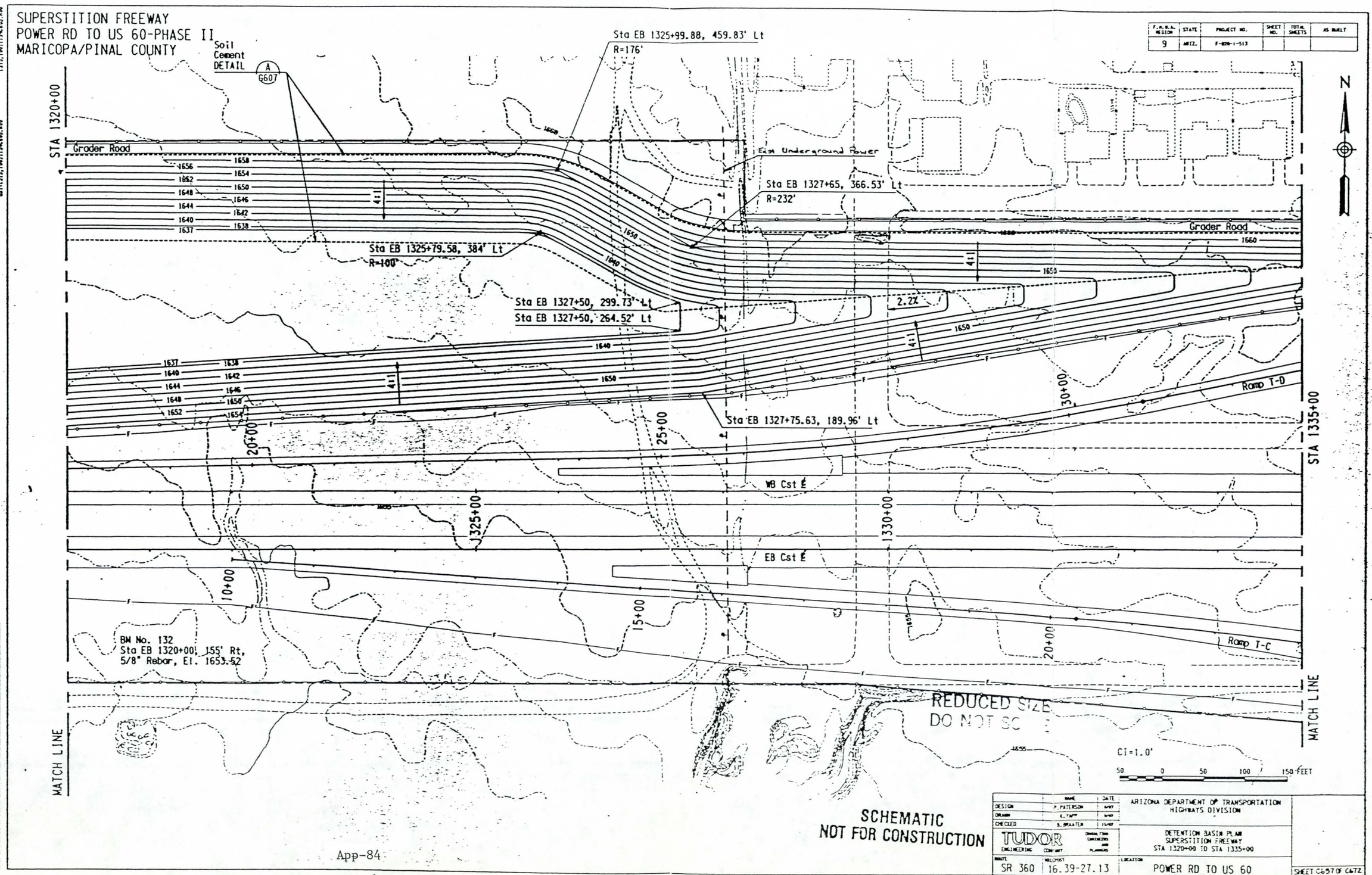


Figure E-4 (continued)

Weekes Wash Detention Basin Plan

(Reference 3)

SUPERSTITION FREEWAY
POWER RD TO US 60-PHASE II
MARICOPA/PINAL COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-029-1-513			

Soil Cement DETAIL A C607

Sta EB 1336+24, 358' Lt
Begin Ditch
Sta EB 1336+24, 348' Lt
Elev 1656.0

Sta EB 1336+40, 374' Lt

STA 1335+00

See Sheet CG32

Culvert - See Roadway Plans For Location (Typ)

East Buried Telephone Cables

Sta EB 1342+22, 283' Lt

Sta EB 1343+03, 260' Lt

Sta EB 1344+25, 235' Lt

See Sheet CG32

A.P. Sta EB 1345+23, 223' Lt

Sta EB 1345+23, 215' Lt

Sta EB 1345+68, 202' Lt

Existing Ground (Typ)

2:1 2:1

2'-0

DETAIL R CG34 CG35

Ramp T-D

Ramp T-A

35+00

45+00

Sta EB 1336+24, 338' Lt

Retain Existing Slope To Drain To Culvert

East 16" Water

WB Cst E

EB Cst E

1340+00

1345+00

East Underground Power

Sta EB 1346+63, 177' Lt

Sta EB 1345+68, 185' Lt

Sta EB 1343+03, 187' Lt

Sta 1342+22, 183' Lt

Sta EB 1344+25, 188' Lt

Sta EB 1345+23, 190' Lt

Sta EB 1342+21, 198' Rt

Sta EB 1343+75, 123' Rt

Sta EB 1344+56, 118' Rt

Sta EB 1339+60, 131' Rt

Sta EB 1338+51, 126' Rt

Sta EB 1340+87, 129' Rt

Sta EB 1340+36, 130' Rt

25+00

15+00

Tomahawk Road

MATCH LINE

Ramp T-C

Ramp T-B

Ditch Inv. El. 1663.5

Sta EB 1339+60, 149' Rt

A.P. EB 1339+60, 153' Rt

Sta EB 1340+36, 162' Rt

Sta EB 1340+87, 173' Rt

Future 4"x4" Telephone Conduits

Daylight At Inv. El. 1663.0

Sta EB 1344+56, 148' Rt

Sta EB 1343+75, 152' Rt

Sta EB 1342+21, 178' Rt

DETAIL B

Construct Ditch To Drain Area. Apx. Length 80'

REDUCED SIZE
DO NOT SCALE

SCHEMATIC
NOT FOR CONSTRUCTION

CI=1.0'

50 0 50 100 150 FEET

	NAME	DATE
DESIGN	P.PATERSON	6/97
DRAWN	E.TAPP	6/97
CHECKED	R.BRAATEN	11/97

TUDOR ENGINEERING COMPANY

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETENTION BASIN PLAN
SUPERSTITION FREEWAY
STA 1335+00 TO STA 1350+00

ROUTE	PROJECT	LOCATION
SR 360	16.39-27.13	POWER RD TO US 60

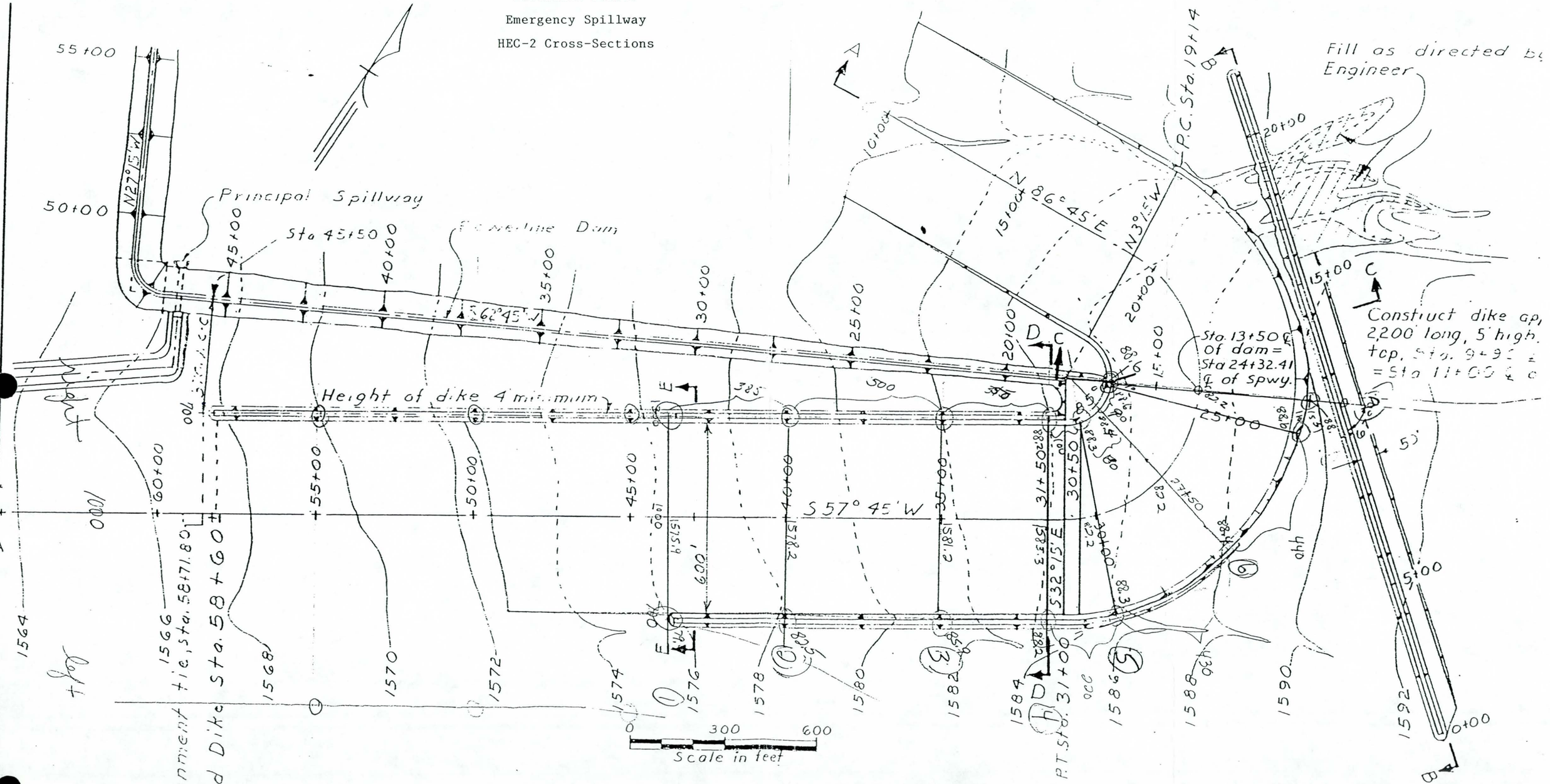
SHEET CG58 OF CG72

Figure F-3

Powerline F.R.S.

Emergency Spillway

HEC-2 Cross-Sections



Powerline Dam, Hydrology and Hydraulics and Structure Design, SCS 1967.

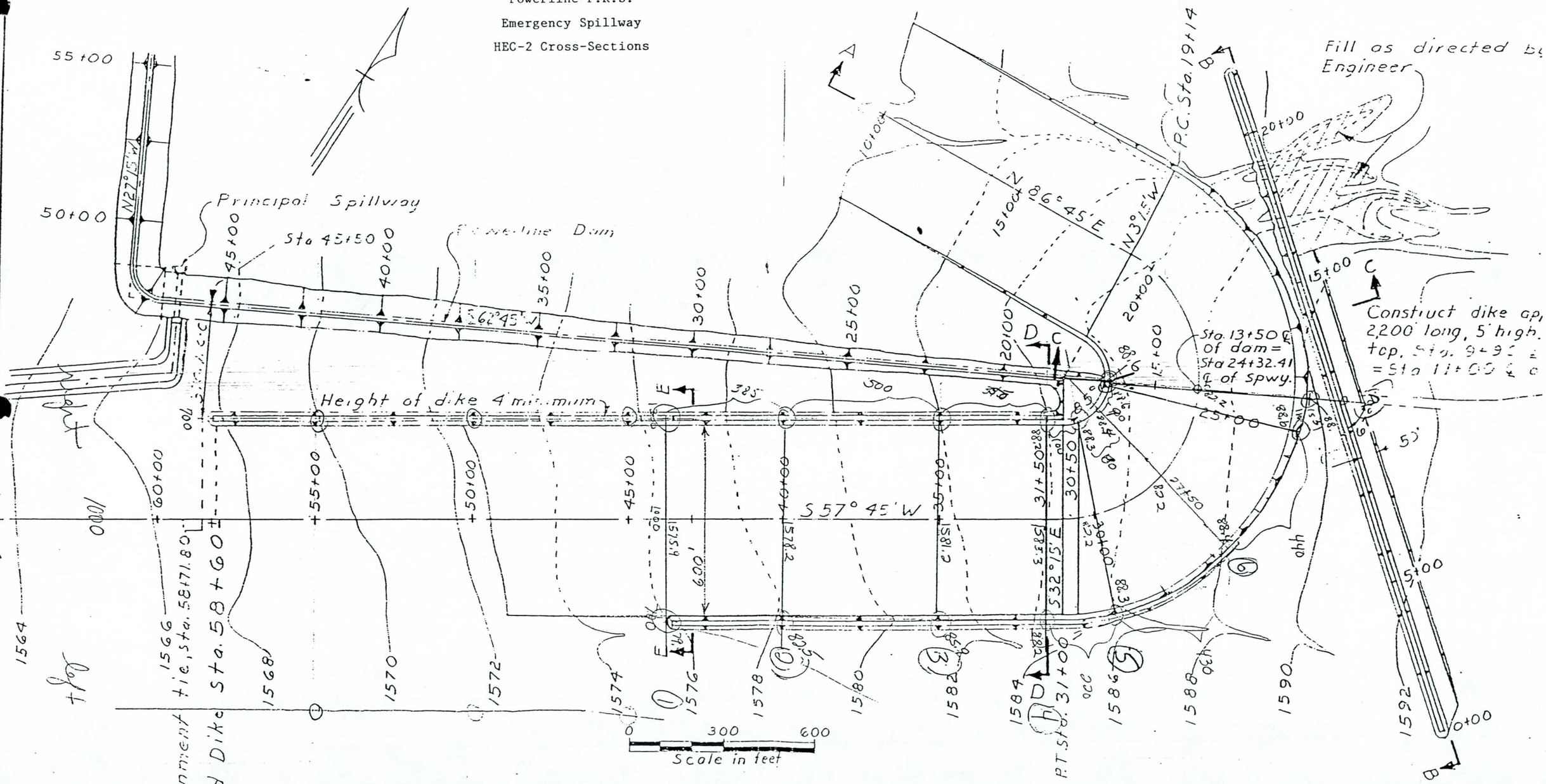
(Reference 12)

Figure F-3

Powerline F.R.S.

Emergency Spillway

HEC-2 Cross-Sections



Powerline Dam, Hydrology and Hydraulics and Structure Design, SCS 1967.

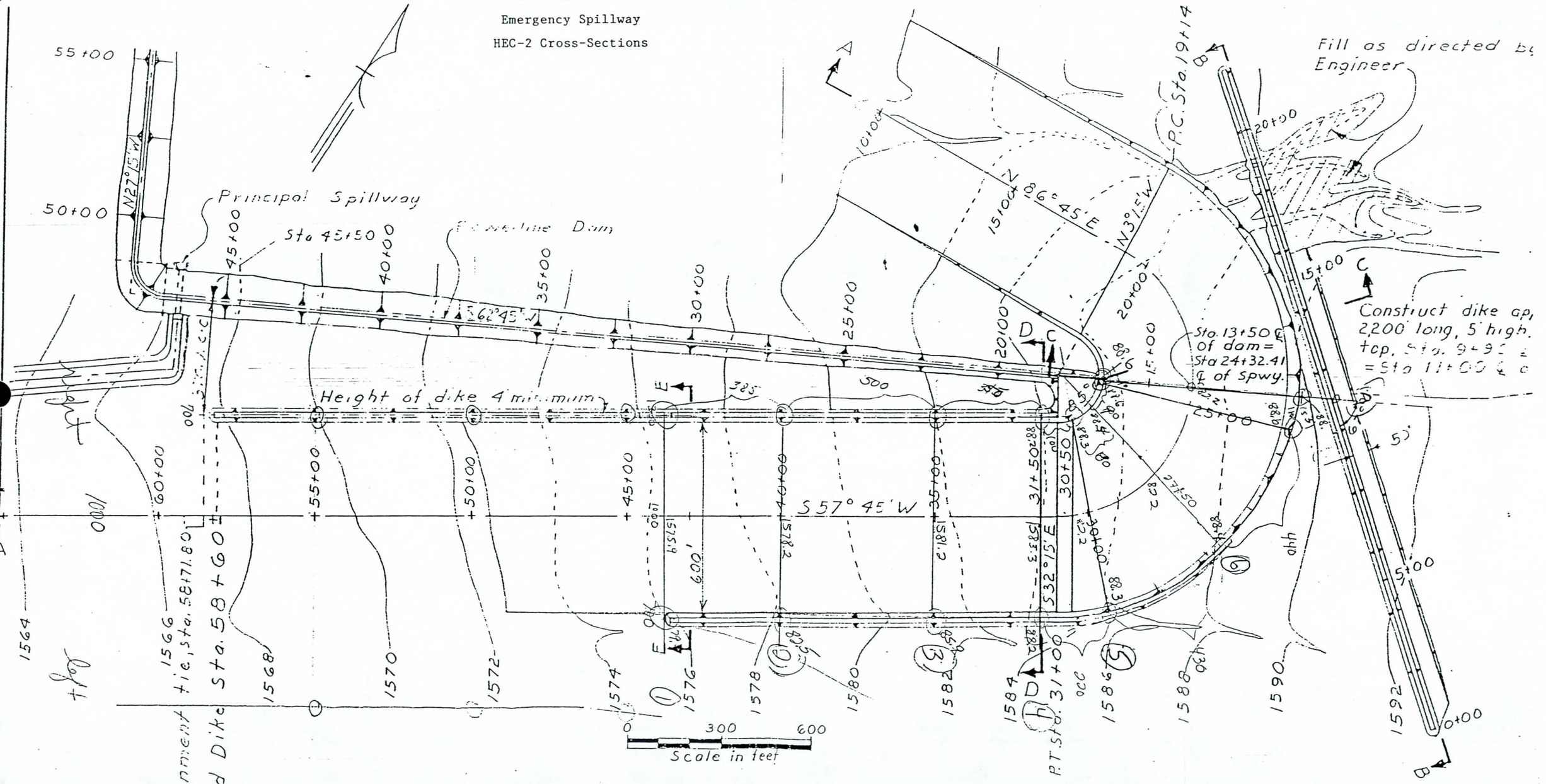
(Reference 12)

Figure F-3

Powerline F.R.S.

Emergency Spillway

HEC-2 Cross-Sections



Powerline Dam, Hydrology and Hydraulics and Structure Design, SCS 1967.

(Reference 12)

United States Department of Agriculture

Soil Conservation Service

201 East Indianola Avenue
Suite 200
Phoenix, Arizona 85012

November 13, 1985

D.E. Sagramoso
Chief Engr. & General Mgr.
Maricopa County (FCD)
3335 W. Durango St.
Phoenix, AZ 85009

Dear Dan:

Attached is a summary of the TR-20 Analysis made by our staff to evaluate the effect of the Weeks Wash Dam on the Powerline Floodwater Retarding Structure. Although several runs were made, we have described and included only those parts of the TR-20 runs we thought were pertinent to the present investigation.

By comparing the attached data with the Apache Junction-Gilbert Watershed Work Plan Supplement, dated February 1967, it will be noted that the 46.3 square miles used in the present study for the drainage area of the Powerline FRS is about 3.3 square miles less than that published in the supplement. The drainage area for the present study was delineated and planimetered from $7\frac{1}{2}$ - minute USGS quad sheets. The reason for the difference in drainage area is unknown.

However, even with the smaller drainage area and based on todays criteria, the Powerline Dam will not safely pass the design Freeboard Storm either "with" or "without" the Weeks Wash Dam in place. It has been shown though that the Weeks Wash Dam does decrease the possibility of the Powerline Dam from overtopping and increases the level of flood protection provided between the two structures and for the area downstream of the Powerline Dam.

Should you or your staff desire to review the analysis or need further explanation, please let us know.

Verne M. Bathurst
State Conservationist

Attachment

bcc: W. Wayne Killgore, ASTC(WR), SCS, Phoenix, AZ
Ralph Arrington, SCE, SCS, Phoenix, AZ

HCM/WWK:bjp

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U.S. Government Printing Office: 1983—420-030/1578

Weeks Wash - Powerline Dam
TR-20 Analyses and Results

The present analyses was made for the purpose of evaluating the effect of the Weeks Wash Dam on the Powerline FRS. Three separate alternates were investigated. These were:

Alternate #1: Uncontrolled Area of Powerline Dam (DA = 37.59 Mi^2)

Alternate #2: Total Drainage Area above Powerline Dam with Weeks Wash Dam Constructed, (DA = 46.33 Mi^2), and

Alternate #3: Total Drainage Area of Powerline Dam without Weeks Wash Dam in place (DA = 46.33 Mi^2)

Each of these alternates had eight separate storms applied over the watershed for a total of 24 runs. The storms were as follows:

Storm #1: Principal Spillway Hydrograph

Storm #2: 6-Hour Emergency Spillway Hydrograph

Storm #3: 6-Hour Freeboard Hydrograph

Storm #4: 24-Hour Emergency Spillway Hydrograph

Storm #5: 24-Hour Freeboard Hydrograph

Storm #6: 10-year, 24-Hour, Type II Storm

Storm #7: 25-year, 24-Hour, Type II Storm

Storm #8: 100-year, 24-Hour, Type II Storm

In the actual TR-20 Runs, however, the storms have been numbered 1-12 as follows:

Storm #1: Principal Spillway Hydrograph (all 3 Alternates)

Storm #2: 6-Hour ESH, Uncontrolled Drainage Area (Alternate #1)

Storm #3: 6-Hour FBH, Uncontrolled Drainage Area (Alternate #1)

Storm #4: 6-Hour ESH, Total Drainage Area (Alternates #2 and #3)

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Storm #8: 24-Hour ESH, Total Drainage Area (Alternates #2 and #3)

Storm #9: 24-Hour EBH, Total Drainage Area (Alternates #2 and #3)

Storm #10: 10-Year, 24-Hour, Type II Storm (All 3 Alternates)

Storm #11: 25-Year, 24-Hour, Type II Storm (All 3 Alternates)

Storm #12: 100-Year, 24-Hour, Type II Storm (All 3 Alternates)

Selected results from these analyses are shown on the following table. These are based on design criteria half way between a "b" and "c" hazard dam, since this was the criteria used in the design of the dam (see Work Plan Supplement dated January 1967). The dam is actually classified as a class "b" structure.

The data shows that the most critical condition exists when the Weeks Wash Dam is not in place (Alternate #3), and the applicable storms are applied over the total drainage area. It is further illustrated that the 6-Hour Emergency Spillway and Freeboard Storms are more critical than the 24-Hour duration. By comparing the Top of Dam Elevation (1589.1 MSL) with the Maximum Computed

Water Surface Elevation for the 6-Hour Freeboard Storm (Elev. 1593.4, Column 10), it is seen that the dam would need to be raised about 4.3 feet in order to contain this flood. Even with the Weeks Wash Dam in place (Alternate #2), the Powerline Dam would still need to be raised by about 2.9 feet in order to contain the Freeboard Storm. The major reason for this difference, as compared to the original design, is a change in the rainfall criteria.

These analyses also show that the 100-Year, 24-Hour, Type II Storm is more critical in determining flow through the Emergency Spillway than the Principal Spillway Hydrograph. The crest of the Emergency Spillway of the Powerline Dam is set at 1582.3 MSL. Should the Weeks Wash Dam not be constructed, there would be about 1.7 feet of flow through the Emergency Spillway with the passage of the 100-Year Flood (Column 16); i.e. the level of flood protection downstream of the Powerline Dam would be decreased if the Weeks Wash Dam is not constructed. With the Weeks Wash Dam in place, however, the full 100-Year level of flood protection is attained (See Column 15).

It can, therefore, be concluded that Weeks Wash Dam does increase the level of flood protection provided downstream of the Powerline Dam and decreases the chance of the Powerline Dam being overtopped. However, even with the Weeks Wash Dam in place, the Powerline Dam would still need to be raised about 2.9 feet in order to contain the Freeboard Storm.

Harry C. Miller

AN WEST INC.
Consulting Engineers
4120 NORTH 20th STREET
PHOENIX, ARIZONA 85016-6014
(602)957-3681

TRANSMITTAL

DATE: August 14, 1986

PROJECT: Superstition Freeway Drainage - Tudor Eng.
JOB NO: 7005-01-68

TO: Soil Conservation Service
201 East Indianola
Suite #200
Phoenix, Arizona 85012

RE: Return Weekes Wash Hydrology Information

ATT: Mr. Harry Millsaps

FROM: Steve Miller

WE ARE SENDING YOU
- ☒ ATTACHED
- ☐ UNDER SEPARATE COVER - VIA Delivery

THE FOLLOWING
- ☐ PLANS
- ☐ SPECIFICATIONS
- ☐ SHOP DRAWINGS
- ☒ ORIGINALS
- ☐ REPRODUCIBLES
- ☐ PRINTS
- ☐ SAMPLES
- ☐ CHANGE ORDER
- ☐ COPY OF LETTER

QUAN.	I.D./DWG. NO.	TITLE/DESCRIPTION
1		Notebook - Weekes Wash Hydrology
1		Computer Printout - Weekes Wash TR-20 Hydrology

THESE ARE TRANSMITTED
- ☐ FOR REVIEW
- ☐ FOR YOUR USE
- ☐ AS REQUESTED
- ☒ Returned

REMARKS: Thanks for letting us use these materials. They will be a great help in evaluating the existing hydrology of this area.

THANKS AGAIN!

COPIES TO:

- ☐ WITH ENCLOSURES
- ☐ WITHOUT ENCLOSURES

SIGNED: R Steve Miller, PE

United States Department of Agriculture

Soil Conservation Service

201 East Indianola Avenue
Suite 200
Phoenix, Arizona 85012

Subject: ENG - Weeks Wash - Powerline Dam Analysis Date: October 18, 1985

To: Ralph M. Arrington,
Phoenix, AZ

File code: 210-28

Attached is a summary of the TR-20 Analyses made to show the effect of the Weeks Wash Dam on the Powerline Floodwater Retarding Structure. Although several runs were made, I have described and included only those parts of the TR-20 runs which I thought were pertinent. If additional data is needed, please let me know.

Harry C. Millsaps
Hydraulic Engineer

Attachment

cc: (w/attach.)
W. Wayne Killgore, ASTC(WR), SCS, Phoenix, AZ

HCM:bjp

The Soil Conservation Service is an agency of the United States Department of Agriculture

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* U.S. Government Printing Office: 1985—529-568/30577

Weeks Wash - Powerline Dam
TR-20 Analyses and Results

The present analyses was made for the purpose of evaluating the effect of the Weeks Wash Dam on the Powerline FRS. Three separate alternates were investigated. These were:

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Selected results from these analyses are shown on the following table. These are based on design criteria half way between a "b" and "c" hazard dam, since this was the criteria used in the design of the dam (see Work Plan Supplement dated January 1967). The dam is actually classified as a class "b" structure.

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These analyses also show that the 100-Year, 24-Hour, Type II Storm is more critical in determining flow through the Emergency Spillway than the Principal Spillway Hydrograph. The crest of the Emergency Spillway of the Powerline Dam is set at 1582.3 MSL. Should the Weeks Wash Dam not be constructed, there would be about 1.7 feet of flow through the Emergency Spillway with the passage of the 100-Year Flood (Column 16); i.e. the level of flood protection downstream of the Powerline Dam would be decreased if the Weeks Wash Dam is not constructed. With the Weeks Wash Dam in place, however, the full 100-Year level of flood protection is attained (See Column 15).

It can, therefore, be concluded that Weeks Wash Dam does increase the level of flood protection provided downstream of the Powerline Dam and decreases the chance of the Powerline Dam being overtopped. However, even with the Weeks Wash Dam in place, the Powerline Dam would still need to be raised about 2.9 feet in order to contain the Freeboard Storm.

Harry C. Mileson

W[illegible] POWERLINE DAMS
TR-[illegible] ANALYSES AND RESULTS

(1) LOCATION	(2) PRIN. SPY. HYD. ALT#1 Storm #1 DA=37.59 Powerline Uncont Area (CFS)/(Elev)	(3) PRIN. SPY. HYD. ALT#2 Storm #1 DA=46.33 Total Area w/W. Wash (CFS)/(Elev)	(4) PRIN. SPY. HYD. ALT#3 Storm #1 DA=46.33 Total Area w/o W. Wash (CFS)/(Elev)	(5) EMER. SPY. HYD. (6-HOUR) ALT#1 Storm #2 DA=37.59 Powerline Uncont Area (CFS)/(Elev)	(6) EMER. SPY. HYD. (6-HOUR) ALT#2 Storm #4 DA=46.33 Total Area w/W. Wash (CFS)/(Elev)	(7) EMER. SPY. HYD. (6-HOUR) ALT#3 Storm #4 DA=46.33 Total Area w/o W. Wash (CFS)/(Elev)	(8) FREEBOARD HYD. (6-HOUR) ALT#1 Storm #3 DA=37.59 Powerline Uncont Area (CFS)/(Elev)	(9) FREEBOARD HYD. (6-HOUR) ALT#2 Storm #5 DA=46.33 Total Area w/W. Wash (CFS)/(Elev)	(10) FREEBOARD HYD. (6-HOUR) ALT#3 Storm #5 DA=46.33 Total Area w/o W. Wash (CFS)/(Elev)
Inflow Str.#7 (W. Wash Dam)	-- --	1,988 --	1,988 --	-- --	10,976 --	10,976 --	--	26,795 --	26,795 --
Outflow Str.#7 (W. Wash Dam)	-- --	103 1,976.58	1,988 --	-- --	935 1983.08	10,976 --	-- --	8,307 1,988.92	26,795 --
Inflow Str.#1 (Powerline Dam)	6,578 --	6,661 --	8,191 --	25,212 --	24,397 --	33,478 --	62,807 --	60,084 --	81,453 --
Outflow Str. #1 (Powerline Dam)	149 1579.92	157 1581.38	159 1582.19	3,311 1585.51	3,357 1585.53	6,385 1586.69	26,368 1591.49	28,679 1592.01	34,958 1593.40

(11) LOCATION	(12) FREEBOARD HYD (24-HOUR) ALT#1 Storm #7 DA=37.59 Powerline Uncont Area (CFS)/(Elev)	(12) FREEBOARD HYD (24-HOUR) ALT#2 Storm #9 DA=46.33 Total Area w/W. Wash (CFS)/(Elev)	(13) FREEBOARD HYD (24-HOUR) ATL#3 Storm #9 DA=46.33 Total Area w/o W. Wash (CFS)/(Elev)	(14) 100-YEAR, 24-HOUR TYPE II ALT#1 Storm #12 DA=37.59 Powerline Uncont Area (CFS)/(Elev)	(15) 100-YEAR, 24-HOUR TYPE II ALT#2 Storm #12 DA=46.33 Total Area w/W. Wash (CFS)/(Elev)	(16) 100-YEAR, 24-HOUR TYPE II ALT#3 Storm #12 DA=46.33 Total Area w/o W. Wash (CFS)/(Elev)
Inflow Str.#7 (W. Wash Dam)	-- --	9,404 --	9,404 --	-- --	6,432 --	6,432 --
Outflow Str.#7 (W. Wash Dam)	-- --	5,787 1,987.73	9,404 --	-- --	132 1,979.92	6,432 --
Inflow Str.#1 (Powerline Dam)	34,834 --	34,889 --	43,311 --	13,403 --	13,371 --	18,279 --
Outflow Str. #1 (Powerline Dam)	20,050 1590.09	22,750 1590.69	26,967 1591.63	160 1582.26	161 1582.3	588 1583.97

NOTE: Powerline Dam
1. Crest of Emer. Spy. = 1582.3
2. Top of Dam = 1589.1

(1) LOCATION	(2) PRIN. SPY. HYD. ALT#1 Storm #1 DA=37.59 Powerline Uncont Area (CFS)/(Elev)	(3) PRIN. SPY. HYD. ALT#2 Storm #1 DA=46.33 Total Area w/W. Wash (CFS)/(Elev)	(4) PRIN. SPY. HYD. ALT#3 Storm #1 DA=46.33 Total Area w/o W. Wash (CFS)/(Elev)	(5) EMER. SPY. HYD. (6-HOUR) ALT#1 Storm #2 DA=37.59 Powerline Uncont Area (CFS)/(Elev)	(6) EMER. SPY. HYD. (6-HOUR) ALT#2 Storm #4 DA=46.33 Total Area w/W. Wash (CFS)/(Elev)	(7) EMER. SPY. HYD. (6-HOUR) ALT#3 Storm #4 DA=46.33 Total Area w/o W. Wash (CFS)/(Elev)	(8) FREEBOARD HYD. (6-HOUR) ALT#1 Storm #3 DA=37.59 Powerline Uncont Area (CFS)/(Elev)	(9) FREEBOARD HYD. (6-HOUR) ALT#2 Storm #5 DA=46.33 Total Area w/W. Wash (CFS)/(Elev)	(10) FREEBOARD HYD. (6-HOUR) ALT#3 Storm #5 DA=46.33 Total Area w/o W. Wash (CFS)/(Elev)
Inflow Str.#7	--	1,988	1,988	--	10,976	10,976	--	26,795	26,795
(W. Wash Dam)	--	--	--	--	--	--		--	--
Outflow Str.#7	--	103	1,988	--	935	10,976	--	8,307	26,795
(W. Wash Dam)	--	1,976.58	--	--	1983.08	--	--	1,988.92	--
Inflow Str.#1	6,578	6,661	8,191	25,212	24,397	33,478	62,807	60,084	81,453
(Powerline Dam)	--	--	--	--	--	--	--	--	--
Outflow Str. #1	149	157	159	3,311	3,357	6,385	26,368	28,679	34,958
(Powerline Dam)	1579.92	1581.38	1582.19	1585.51	1585.53	1586.69	1591.49	1592.01	1593.40

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(W. Wash Dam)	--	--	--	--	--	--
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(W. Wash Dam)	--	1,987.73	--	--	1,979.92	--
Inflow Str.#1	34,834	34,889	43,311	13,403	13,371	18,279
(Powerline Dam)	--	--	--	--	--	--
Outflow Str. #1	20,050	22,750	26,967	160	161	588
(Powerline Dam)	1590.09	1590.69	1591.63	1582.26	1582.3	1583.97

NOTE: Powerline Dam
1. Crest of Emer. Spy. = 1582.3
2. Top of Dam = 1589.1

APACHE JUNCTION QUADRANGLE
ARIZONA
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARM
CORPS OF ENGINEERS

WEEKS WASH - POWERLINE DAM
TR-20 SCHEMATIC MAP

9/20/85
Hem

#2

① DA = 5.87 mi²
CN₁ = 83
CN₆ = 79
CN₂₄ = 75
Tc = 2.02 HRS

② DA = 5.87 mi²
CN₁ = 83
CN₆ = 79
CN₂₄ = 75
Tc = 2.02 HRS

③ DA = 5.96 mi²
CN₁ = 85
CN₆ = 82
CN₂₄ = 78
Tc = 1.41 HRS

④ DA = 13.11 mi²
CN₁ = 88
CN₆ = 84
CN₂₄ = 81
Tc = 2.17 HRS

⑤ DA = 5.52 mi²
CN₁ = 88
CN₆ = 84
CN₂₄ = 81
Tc = 1.18 HRS

⑥ DA = 7.19 mi²
CN₁ = 86
CN₆ = 82
CN₂₄ =
Tc = 1.80 HRS

⑬ DA = 0.2 mi²
CN₁ = 88
CN₆ = 82
CN₂₄ = 79
Tc = 0.23

⑭ DA = 1.16 mi²
CN₁ = 84
CN₆ = 82
CN₂₄ = 79
Tc = 0.25 HRS

⑮ DA = 1.72 mi²
CN₁ = 87
CN₆ = 83
CN₂₄ = 80
Tc = 0.35 HRS

⑯ DA = 2.24 mi²
CN₁ = 89
CN₆ = 85
CN₂₄ = 82
Tc = 0.59 HRS

L = 5.5 mi

Powerline Dam

Siphon

U.S. Department of Agriculture
Soil Conservation Service (HM)

Project: Weekes Wash - Powerline Dams
Subject: Sub-Drainage Areas, Arizona
Date: 9/10/85

Subarea No.	Drainage Area ($Mi.^2$)	
11	0.63	
12	1.43	Developed in 1983 Study of Weekes Wash FRS
13	1.35	and equal to subarea #1 in present study
14	1.16	
15	1.72	
16	2.24	
17	0.21	
	8.74	Compares w/8.94 $mi.^2$ estimate in present study with slight difference in delineation
2	5.87	
3	5.92	
4	13.11	
5	5.52	
6	7.17	
	37.59	D.A. below Weekes Wash FRS
Total Powerline Dam D.A.	46.33	

U.S. Department of Agriculture
Soil Conservation Service (JB)

Project: Buckhorn Mesa - Apache Junction, Gilbert
Subject: Drainage Weekes Wash and Powerline, Arizona
Date: 8/29/85

Dams | 7.5 Min Quad | Planimeter Used: K&E Instr. #71177 | Arm Length 100

Subarea #1 = subareas 11, 12, 13, 14, 15, 16, & 17 as used in 1983 Study

75.727	92.848	109.797	
58.585	75.727	92.848	17.070x3.65 = 62.308"
17.142	17.121	16.949	63.308x.1435 = 8.94 mi.^{2}

Subarea #2

107.936	19.124	41.647	
96.745	07.936	30.408	11.206x3.65 = 40.90^2
11.190	11.188	11.239	40.902x.1435 = 5.87 mi.^{2}

Subarea #3

65.639	76.977	88.286	
54.357	65.639	76.977	11.310x3.65 = 41.281
11.282	11.338	11.309	41.281x.1435 = 5.92 mi.^{2}

Subarea #4

50.229	75.285	100.308	
25.239	50.229	75.285	25.023x3.65 = 91.334
24.990	25.056	25.023	91.334x.1435 = 13.11 mi.^{2}

Subarea #5

33.889	55.813	76.783	
23.372	45.283	66.228	10.534x3.65 = 38.449
10.517	10.530	10.555	38.449x.1435 = 5.52 mi.^{2}

Subarea #6

45.169	17.812	31.545	
31.545	04.072	17.812	13.699x3.65 = 50.001
13.624	13.740	13.733	50.001x.1435 = 7.17 mi.^{2}

U.S. Department of Agriculture
Soil Conservation Service (JB)

Project: Buckhorn Mesa - Apache Junction, Gilbert
Subject: Drainage Weekes Wash and Powerline, Arizona
Date: 8/29/85

Measurement of Entire Drainage Area (measured one half at a time)

L. Half

126.953	56.332	85.606	
97.625	26.953	56.332	29.327x3.65 = 107.043
29.328	29.379	29.274	107.043x.1435 = 15.36 $mi.^2$

R. Half

145.196	104.540	63.673	
85.931	45.196	04.540	59.247x3.65 = 216.251
59.265	59.344	59.133	216.251x.1435 = 31.03 $mi.^2$

15.36 $mi.^2$ + 31.03 $mi.^2$ = 46.39 $mi.^2$
Total Area

Total of Subareas

8.94 $mi.^2$ + 5.87 $mi.^2$ + 5.92 $mi.^2$ + 13.11 $mi.^2$ + 5.52 $mi.^2$
+ 7.17 $mi.^2$ = 46.53 $mi.^2$

Weekes Wash & Powerline Dam

Drainage Areas

The drainage areas for the present study were delineated on 7 1/2 minute quad sheets. Six subareas were used, with Subarea No. 1 being the drainage contributing to Weekes Wash FRS. The Weekes Wash FRS D.A. was estimated at 8.94 $mi.^2$. This compares with 8.72 $mi.^2$ used in the Buckhorn Mesa work plan and 8.73 square miles estimated during design hydrology developed in December 1983. It was decided to use the December 1983 data in which the Weekes Wash FRS Drainage was subdivided into seven (7) separate areas. These are shown on the following sheets and drainage area map. (See 1983 Design Documentation for Weekes Wash Dam).

Documentation for the remaining five drainages used in this study (in the uncontrolled portions of Powerline Dam) are enclosed. These areas total 37.59 $mi.^2$. This plus the 8.74 used for Subarea #1 (i.e. Subareas 11, 12,13, 14, 15, 16, & 17 used for Weekes Wash FRS Design Hydrology Study) gives a total drainage of 46.33 square miles for Powerline Dam. This latter figure compares with 49.6 $mi.^2$ used in the Apache Jct., Gilbert supplement dated February 1967. The reason for this discrepancy has not been determined since the 1967 delineation and calculations could not be located. The 46.33 $mi.^2$ was used in the present study.

Powerline Dam
Drainage Area
7 1/2 Quad Sheet

Rolling Planimeter
Arm Setting = 100

Upstream of Hwy 80-89

80.093	149.884	119.525
10.473	80.093	49.844
69.620	69.791	69.641

$69.684 \times 3.65 \times .1435 = 36.50 \text{ mi.}^2$

Downstream of Hwy 80-89

74.377	93.607	112.730
55.156	74.377	93.607
19.221	19.230	19.123

$19.191 \times 3.65 \times .1435 = 10.05 \text{ mi.}^2$

TOTAL AREA = 46.55 mi.^2

This compares with 46.53 mi.^2 developed by John Best in planimetering 6 - separate subareas, but compare to 49.6 sq. mi. used in work plan supplement dated February 1967.

Weekes Wash - Powerline Dams

Curve Number Calculations

Curve numbers for the Weekes Wash portion of the present study were taken from the December 1983 Design Hydrology Study for Weekes Wash Dam. For the uncontrolled portion of the Powerline Dam drainage, curve numbers for short duration (1-hr.) storms were developed using available soils information and an average cover density of 15% assuming Desert or Scrub brush. The soils information was taken from a level 2 soil survey for Eastern Maricopa County and from the General Soil Survey map for Pinal County. Dave Richmond, Soil Scientist, provided additional interpretation of the Pinal County General Soil map. The curve numbers thus developed by subarea were reduced for duration using procedures developed by Don Woodward and published in his paper presented to AS&E Society, June 1983, entitled "Runoff Curve Numbers for Semi Arid Range and Forest Conditions". The weighted 24-hour CN for Weekes Wash Dam was calculated at 82 and compares to CN = 80 used in the 1976 work plan supplement for the Buckhorn Mesa W/S. For the total Powerline Dam D.A. = 46.33^2, the weighted 24-hour CN was estimated at 80 and compares with CN = 83 used in the January 1967 work plan supplement for the Apache Junction-Gilbert W/S. CN's for other Junctions are shown in the following table.

U.S. Department of Agriculture
Soil Conservation Service (HM)

Project: Weekes Wash and Powerline FRS
Subject: Curve Numbers by Duration
Date: 9/10/85

Subarea No.	Short (1-hr.) Duration RCN	6-hr.[1] RCN	24-hr.[1] RCN	10-day[2]	Drainage Area ($Mi.^2$)
11	89	85	82	68	0.63
12	92	89	86	74	1.43
13	90	86	83	69	1.35
14	86	82	79	64	1.16
15	87	83	80	65	1.72
16	89	85	82	68	2.24
17	86	82	79	64	0.21
WTCN (Weekes Wash Dam)	(89)	(85)	(82)	(68)	8.74
2	83	79	75	58	5.87
3	85	81	78	62	5.92
4	88	84	81	66	13.11
5	88	84	81	66	5.52
6	86	82	79	64	7.17
					37.59
WTCN Total Area Powerline Dam	87	83	80	65	46.33

1> Curve numbers for 6-hr. and 24-hr. durations are based on publications by Don E. Woodward, SCS Hyd. Engr. entitled, "Runoff Curve Numbers for Semi-Arid Range and Forest Conditions" as presented to ASAE Society on June 17-20, 1983.

2> 10-day curve numbers taken from Table 2-3, TR60 using 24-hr. CN as developed above.

COMPUTATION SHEET
SCS-ENG-523 Rev. 8-69

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STATE Arizona | PROJECT Weeks Wash 2nd Crossing
BY Lynn | DATE 9/10/85 | CHECKED BY Weeks | DATE | JOB NO.
SUBJECT Curve Number Calc | SHEET | OF

Subarea NO. [2]	Hyd Soil Grp	Ag Cover Type	% Cover	Short Dur CN	Esti Area (Mi²)	Product CN x Mi²	Weight Short Dur. CN
2	A	Desert Br	15	72	0,30		83.45 Use 83
	B	"	15	83	4.48		
	B-C [1]	"	15	85	0.30		
	C	"	15	89	0.58		
	D	"	15	92	0.21		
					5.87	489,88	
3	B	"	15	83	4,11		85.9 Use
	B-C	"	15	85	0.29		
	C	"	15	89	0.81		
	D	"	15	92	0.71		
					5.92	503.19	
4	A	"	15	72	.07		88.1 Use 88
	B	"	15	83	2.48		
	B-C	"	15	85	2,21		
	C	"	15	89	3,89		
	D	"	15	92	4.46		
					13,11	1155,26	
5	A	"	15	72	0,25		87,69 Use 88
	B	"	15	83	1,60		
	B-C	"	15	85	0,28		
	C	"	15	89	0,80		
	D	"	15	92	2.59		
					5,52	484,08	
6	A	"	15	72	0,13		86.03 USE 86
	B	"	15	83	3,70		
	B-C	"	15	85	0,89		
	C	"	15	89	0,22		
	D	"	15	92	2,23		
					7,17	616,85	

Wt for Total Uncontrolled DA = 3249.26 / 37.59 = 86.43 Use 86

[1] Based on 60% B & 40% C Hyd Soil Group.
[2] See Attached Sheet for Subareas 12-17 located above Weeks Wash Fig 6

Weekes Wash - Powerline Dam Analysis

Times of Concentration

The times of concentration for the individual subareas are based on channel hydraulics using limited field survey and cross sections. N-values were estimated based on field reconnaissance and a plot of N-values vs elevations developed in the Signal Butte FRS Design Hydrology Documentation. Calculated Tc's were modified using expected future percent impervious and changes on channel lengths. For both the Weekes Wash FRS drainage and the total Powerline Dam Drainage and the total Powerline Dam Drainage, the calculated Tc's are somewhat less than those used on the work plans. For instance, on Weekes Wash, the calculated Tc for the total drainage is 0.97 hours as compared to Tc=0.50 used on the Buckhorn Mesa work plan. For the total Powerline Dam drainage, the work plan Tc was calculated at 1.88 hours as compared to Tc = 2.02 + 0.97 = 2.99 hrs. Based on an historical storm study for the July 17-18, 1984 flood in the Buckhorn Mesa W/S, the revised Tc's appeared to be more reasonable.

U.S. Department of Agriculture
Soil Conservation Service (HM)

Project: Buckhorn Mesa - Apache Junction, Gilbert
Subject: Time of Concentration Summary
Date: 9/11/85

Weekes Wash and Powerline Dams

Subarea No.	Pres. Cond. Tc (Hrs.)	Future Short Dur CN (Assumed same as present)	Adj for Area Length Modifications 1>	Adj for Impervious 2>	Future Tc
11	0.34	89	.94	.958	0.31
12	0.49	92	.948	.962	0.45
13	0.23	90	.942	.960	0.21
14	0.28	86	.93	.952	0.25
15	0.34	87	.935	.953	0.30
16	0.65	89	.94	.958	0.59
17	0.26	86	.93	.952	0.23
2	2.32	83	.92	.945	2.02
3	1.60	85	.925	.950	1.41
4	2.43	88	.937	.955	2.17
5	1.32	88	.937	.955	1.18
6	2.03	86	.93	.951	1.80

1> Figure 3.4, TR-55, Jan. 1975, Assuming 15% of channel modified based on development of 5-acre tract.

2> Figure 3.5, TR-55, Assuming 10% impervious, based on 5-acre tract development and using Table 2.2, TR-55, dated Jan. 1975.

U.S. Department of Agriculture
Soil Conservation Service (HM)

Project: Buckhorn Mesa - Apache Junction, Gilbert
Subject: Tc Calc Weekes Wash and Powerline FRS's, Arizona
Date: 9/11/85

Subarea #2

$L_1 = 2500'$

$S = \frac{3400 - 2500}{2500} = 0.56$

$N = 0.085$

$R = 0.75$

$V = \frac{1.486}{0.085} (0.75)^{2/3} (0.56)^{1/2} = 10.8$

$T_{t_1} = \frac{2500}{(3600)(10.8)} = 0.064$ hrs.

$L_2 = 900'$

$S = \frac{2500 - 2300}{900} = 0.222$

$N = 0.085$

$R = 0.75$

$V = \frac{1.486}{.085} (0.75)^{2/3} (.222)^{1/2} = 6.8$

$T_{t_2} = \frac{900}{(3600)(6.8)} = 0.037$ hrs.

$L_3 = L = 700'$

$S = \frac{2300 - 2200}{700} = 0.143$

$N = 0.080$

$R = 1.0$

$V = \frac{1.486(1)^{2/3}(.143)^{1/2}}{.080} = 7.0$

$T_{t_3} = \frac{700}{(3600)(7)} = 0.028$ hrs.

$L_5 = 4500$

$S = \frac{2100 - 2000}{4500} = .0222$

$R = 2.0$

$N = 0.055$

$V = \frac{1.486}{0.055} (2)^{2/3} (.0222)^{1/2} = 6.4$

$T_{t_5} = \frac{4500}{(3600)(6.4)} = 0.195$ hrs.

$L_6 = 388'$

$S = \frac{2000 - 1950}{3800} = .0132$

$N = 0.055$

$R = 2.0$

$V = \frac{1.486}{.035} (2)^{2/3} (.0132)^{1/2} = 4.9$

$T_{t_6} = \frac{3800}{(3000)(4.9)} = 0.215$ hrs.

$L_7 = 38,600$ (Basically d/s of Weekes Wash Dam)

$S = \frac{1950 - 1960}{38600} = 0.0101$

$N = 0.055$

$R = 3.5$

$V = \frac{1.486(3.5)^{2/3}(.0101)^{1/2}}{.055} = 6.2$

$T_{t_7} = \frac{38600}{(3600)(6.2)} = 1.729$ hrs.

Subarea #2 (continued)

$L_4 = 1300$

$S = \frac{2200 - 2100}{1300} = .0769$

$R = 1.5$

$N = 0.075$

$V = \frac{1.486}{.075} (1.5)^{2/3}(.0769)^{1/2} = 7.2$

$T_{t_4} = \frac{1300}{(3600)(7.2)} = 0.050$

$T_c = .064 + .037 + .028 + .050 + .195 + .215 + 1.72$

$T_c = 2.32$

$V \text{ avg.} = \frac{52300}{(3600)(2.32)} = \text{ft/sec}$

Subarea #3

$L_1 = 12,050$

$S = \frac{1900 - 1750}{12,050} = 0.0124$

$N = 0.050$

$R - 3.0$

$V = \frac{1.486}{.050} = (3)^{2/3}(.0124)^{1/2} = 6.9$

$T_{t1} = \frac{12,050}{(3600)(6.9)} = 0.485 \text{ hrs.}$

$L_2 = 18,100$

$S = \frac{1750 - 1600}{18,100} = 0.0083$

$N = 0.045$

$R - 3.0$

$V = \frac{1.486}{.045} (3)^{2/3}(.0083)^{1/2} = 6.3$

$T_{t_2} = \frac{18100}{(3600)(6.3)} = 0.798 \text{ hrs.}$

Subarea #3 (continued)

$L_3 = 5850$

$S = \frac{1600 - 1560}{5850} = .0068$

$N = 0.045$

$R = 2.5$

$V = \frac{1.486}{.045} (2.5)^{2/3} (.0068)^{1/2} = 5.0$

$T_{t_3} = \frac{5850}{(3600)(5.0)} = 0.325$ hrs.

$T_c = 0.485 + 0.798 + 0.325 = 1.60$ hrs.

$V_{avg.} = \frac{36000}{(3600)(1.6)} = 6.3$ ft./sec.

Subarea #4

$L_1 = 4100$

$S = \frac{4700 - 2900}{4100} = 0.439$

$N = 0.085$

$R = 0.75$

$V = \frac{1.486}{.085} = (.75)^{2/3} (.439)^{1/2} = 9.5$

$T_{t_1} = \frac{4100}{(3600)(9.5)} = 0.120$ hrs.

$L_2 = 2900$

$S = \frac{2900 - 2400}{2900} = 0.172$

$N = 0.080$

$R = 1.0$

$V = \frac{1.486}{.080} = (1)^{2/3} (.172)^{1/2} = 77$

$T_{t_2} = \frac{2900}{(3600 \times 7.7)} = .105$ hrs.

$L_5 = 13,300$

$S = \frac{1900 - 1750}{13,300} = 0.113$

$N = 0.070$

$R = 3.5$

$V = \frac{1.486}{.070} (3.5)^{2/3} (.0113)^{1/2} = 5.2$

$T_{t_5} = \frac{13,300}{(3600)(5.2)} = 0.710$ hrs.

$L_6 = 20,450$

$S = \frac{1750 - 1625}{20,450} = .00611$

$N = 0.045$

$R = 3.3$

$V = \frac{1.486}{.045} = (3.3)^{2/3} (.00611)^{1/2} = 5.7$

$T_{t_6} = \frac{20,450}{(3600)(5.7)} = 0.997$

Subarea #4 (continued)

$L_3 = 3500$

$S = \frac{2400 - 2100}{3500} = .0857$

$N = .075$

$R - 1.5$

$V = \frac{1.486}{.075} = (1.5)^{2/3}(.0857)^{1/2} = 7.6$

$T_{t_3} = \frac{3500}{(3600 \times 7.6)} = 0.128$ hrs.

$L_4 = 7800$

$S = \frac{2100 - 1900}{7800} = .0256$

$N = 0.275$

$R = 2.5$

$V = \frac{1.486}{.075} (2.5)^{2/3}(.0256)^{1/2} = 5.8$

$T_{t_4} = \frac{7800}{(3600)(5.8)} = 0.373$ hrs.

$T_c = .120 + .105 + .128 + .373 + .710 + .997 = 2.43$ hrs.

$V_{avg} = \frac{52050}{(3600)(2.43)} = 5.9$ ft./sec.

Subarea #5

$L_1 = 5500$

$S = \frac{4630 - 2900}{5500} = 0.315$

$N = 0.085$

$R = 1.0$

$V = \frac{1.486}{.085} = (1.0)^{2/3}(.315)^{1/2} = 9.8$

$T_{t_1} = \frac{5500}{(3600)(9.8)} = 0.156$ hrs.

$L_5 = 10,600$

$S = \frac{1900 - 1700}{10,600} = .0189$

$N = 0.055$

$R = 2.0$

$V = \frac{1.486}{.055} = (2.0)^{2/3}(.0189)^{1/2} = 5.9$

$T_{t_5} = \frac{10,600}{(3600)(5.9)} = 0.499$ hrs.

Subarea #5 (continued)

$L_2 = 3000$

$S = \frac{2900 - 2600}{3000} = 0.10$

$N = 0.070$

$R = 1.0$

$V = \frac{1.486}{.070} = (1)^{2/3}(0.10)^{1/2} = 6.7$

$T_{t_2} = \frac{3000}{(3600)(6.7)} = 0.124$ hrs.

$L_3 = 4650$

$S = \frac{2600 - 2300}{4650} = .0645$

$N = 0.065$

$R - 1.5$

$V = \frac{1.486}{.065} = (1.5)^{2/3}(.0645)^{1/2} = 7.6$

$T_{t_3} = \frac{4650}{(3600)(7.6)} = 0.170$ hrs.

$L_4 = 9100$

$S - \frac{2300 - 1900}{9100} = 0.0439$

$N - 0.060$

$R = 1.5$

$V = \frac{1.486}{.060} = (1.3)^{2/3}(.0439)^{1/2} = 6.8$

$T_{t_4} = \frac{9100}{(3600)(6.8)} = 0.371$

$T_c = 0.156 + .124 + .170 + .371 + .499$

$V_{avg.} = \frac{32,850}{(3600)(1.32)} = 6.9$ ft./sec.

Subarea #6

$L_1 = 3800$

$S = \frac{4800 - 3000}{3800} = 0.421$

$N - 0.085$

$R - 0.75$

$V = \frac{1.486}{.085} = (7.5)^{2/3}(.421)^{1/2} = 9.3$

$T_{t_1} = \frac{3800}{(3600)(9.3)} = 0.114$ hrs.

$L_2 = 3850$

$S = \frac{3200 - 2600}{3850} = 0.156$

$N - 0.080$

$R - 0.75$

$V = \frac{1.486}{.080} = (0.75)^{2.3}(.156)^{1/2} = 6.0$

$T_{t_2} = \frac{3850}{(3600)(6.0)} = 0.178$ hrs.

$L_3 = 2250$

$S = \frac{(2600 - 2400)}{2250} = 0.0889$

$N - 0.065$

$R - 1.0$

$V = \frac{1.486}{.065} = (1)^{2/3}(.0889)^{1/2} = 6.8$

$T_{t_3} = \frac{2250}{(3600)(6.8)} = 0.092$ hrs.

$L_4 = 5200$

$S = \frac{2400 - 2100}{5200} = .0577$

$N = 0.065$

$R - 1.5$

$V = \frac{1.486}{.065} (1.5)^{2/3} (.0577)^{1/2} = 7.2$

$T_{t_4} = \frac{5200}{(3600)(7.2)} = 0.200$ hrs.

$L_5 = 6850$

$S = \frac{2100 - 1900}{6850} = .0292$

$N = 0.055$

$R = 2.0$

$V = \frac{1.486}{.055} = (2)^{2/3}(.0292)^{1/2} = 7.3$

$T_{t_5} = \frac{6850}{(3600)(7.3)} = 0.26$ hrs.

$L_6 = 19,100$

$S = \frac{1900 - 1650}{19,100} = .0131$

$N - 0.050$

$R - 2.0$

$V = \frac{1.486}{.050} (2)^{2/3} (.131)^{1/2} = 5.4$

$T_{t_6} = \frac{19100}{(3600)(5.4)} = 0.982$ hrs.

$L_7 = 4200$

$S - \frac{1650 - 1620}{4250} = 0.00714$

$N = 0.045$

$R - 3.0$

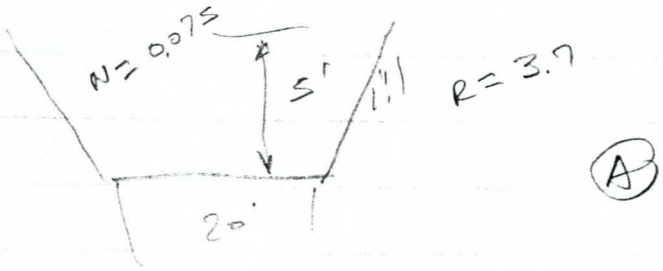
$V = \frac{1.468}{.045} = (3)^{2/3} (.00714)^{1/2} = 5.8$

$T_{t_7} = \frac{4200}{(3600)(5.8)} = 0.201$ hrs.

$T_c = 0.114 + 0.178 + 0.092 + 0.200 + 0.261 + 0.982 + 0.201 = 2.03$ hrs.

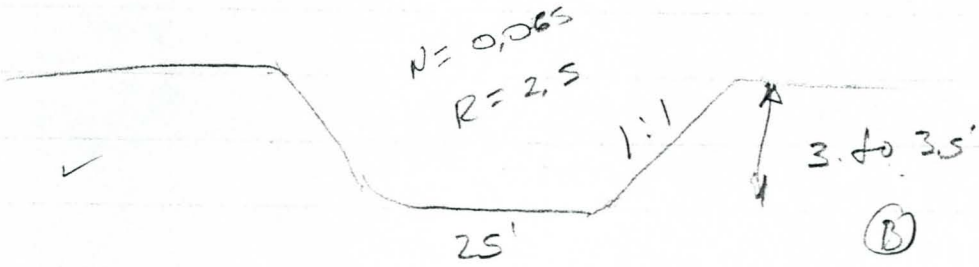
$V_{avg.} = \frac{45,250}{(3600)(2.03)} = 6.19$ ft./sec.

Enchanted Mesa Apache Jct Gilbert
Powerline Dam-Wash N to S



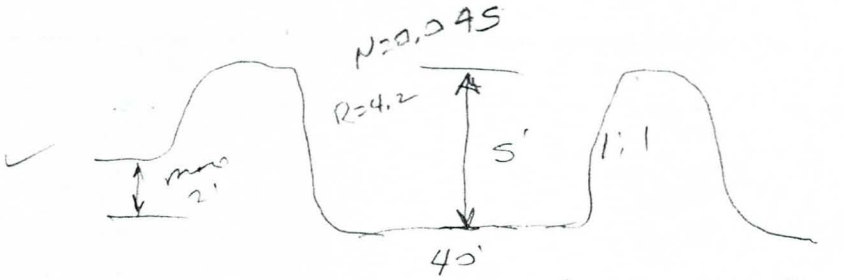
(A)

Siphon Draw near Knoll



(B)

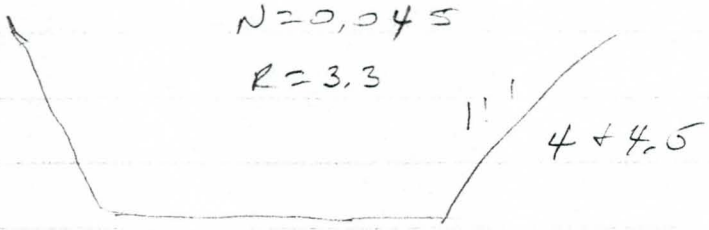
Weeks Wash near Knoll



Weeks wash
@ Hwy 80.89

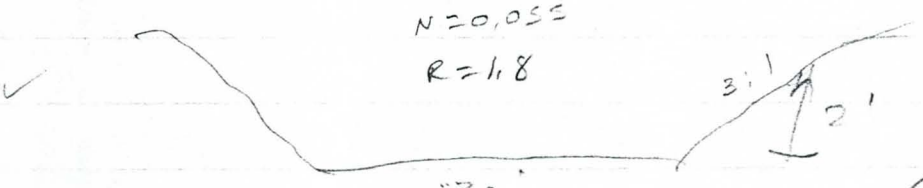
(C)

(D) Hwy 80.89



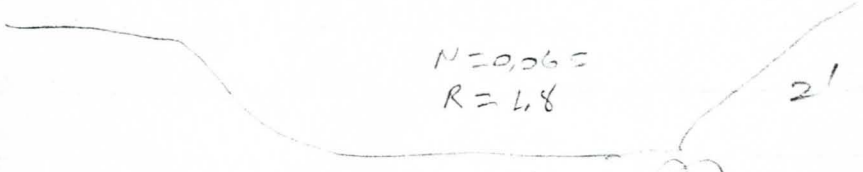
(E)

Siphon Draw.
Dwg 80-89



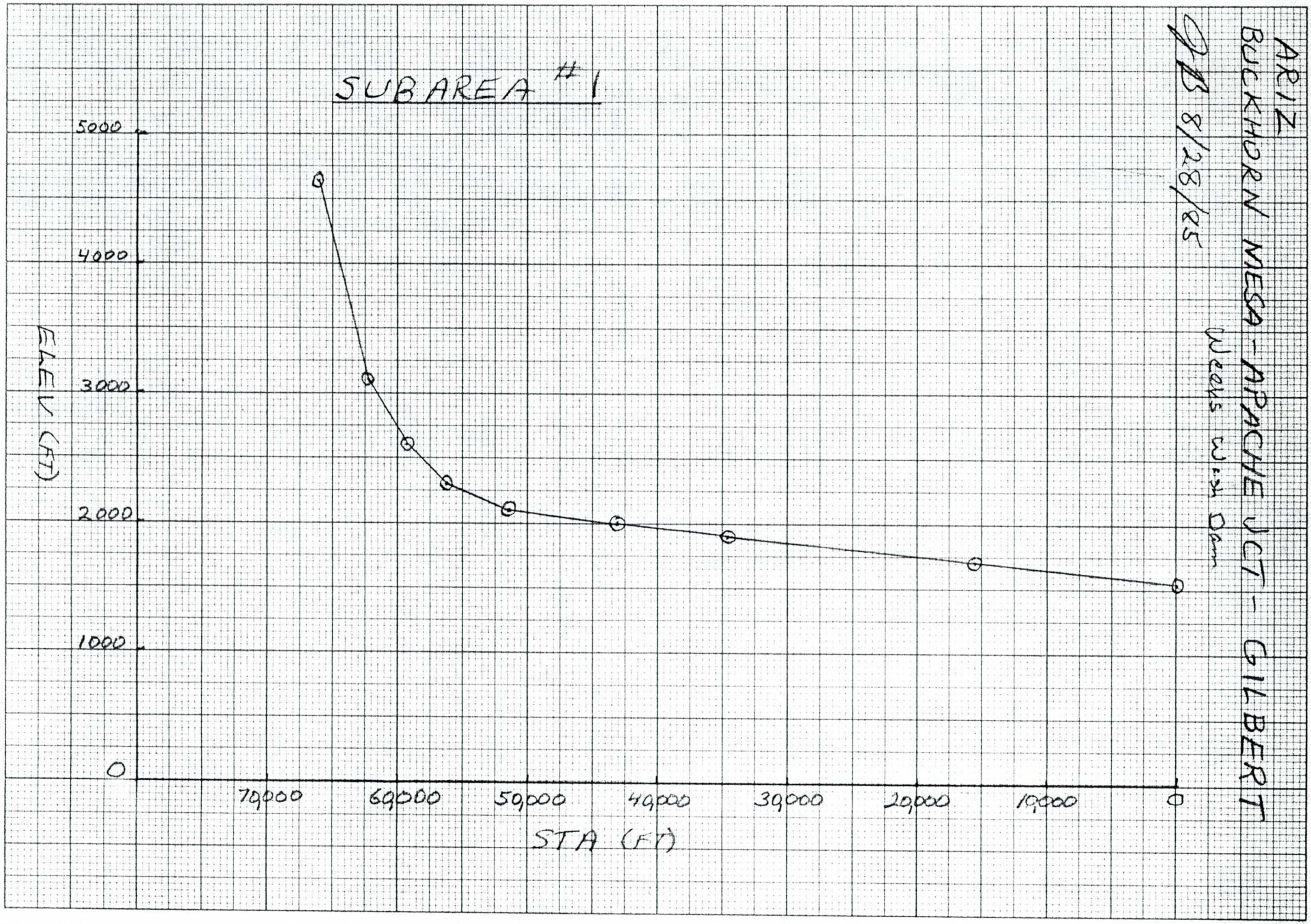
(F)

Draw ~~East~~ ; Siphon



(G)

K+E 20 X 20 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

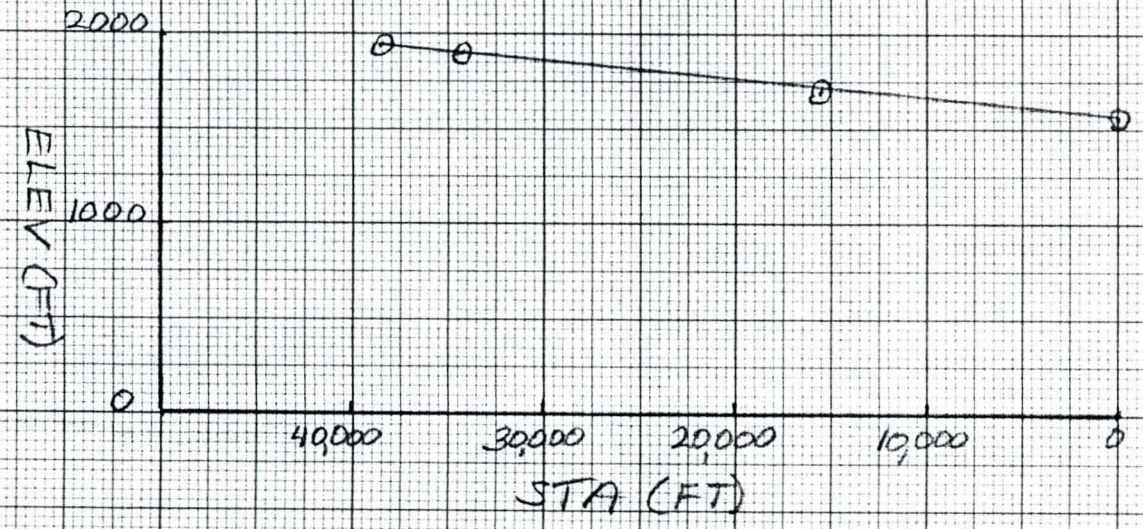


K&E 20 X 20 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

SUBAREA #2

ARIZ BUCKHORN MESA - APACHE JCT - GILBERT

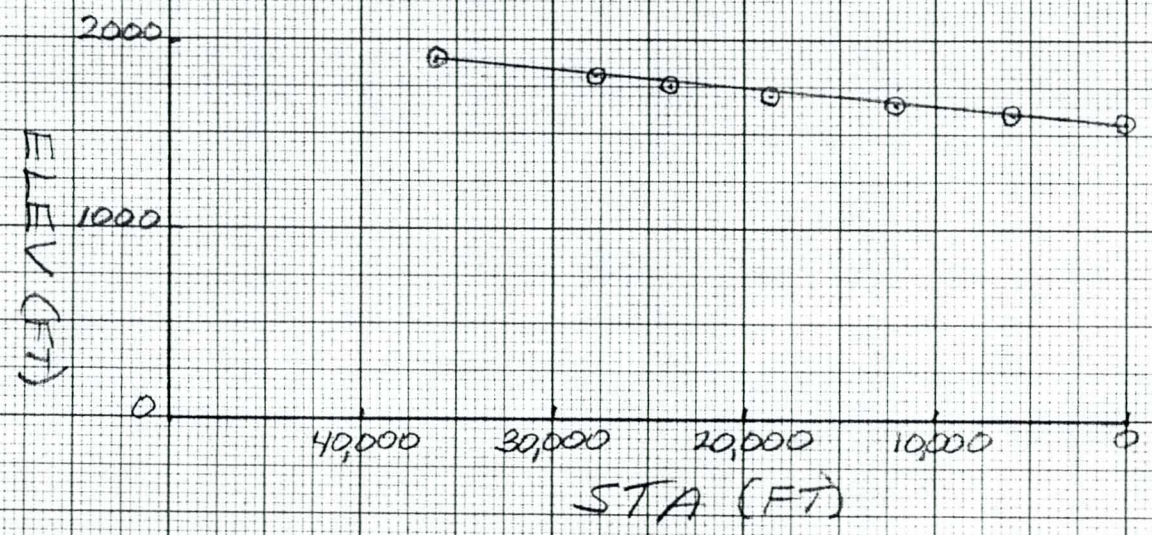
Q3 8/28/25



K&E 20 X 20 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

SUBAREA #3

ARIZ
BUCKHORN MESA - APACHE JCT - GILBERT
Q @ 8/28/85



K•E 20 X 20 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

SUBAREA #4

ARIZ BUCKHORN MESA-APACHE JCT-GILBERT
Q = 8,818 CFS

ELEV (FT)

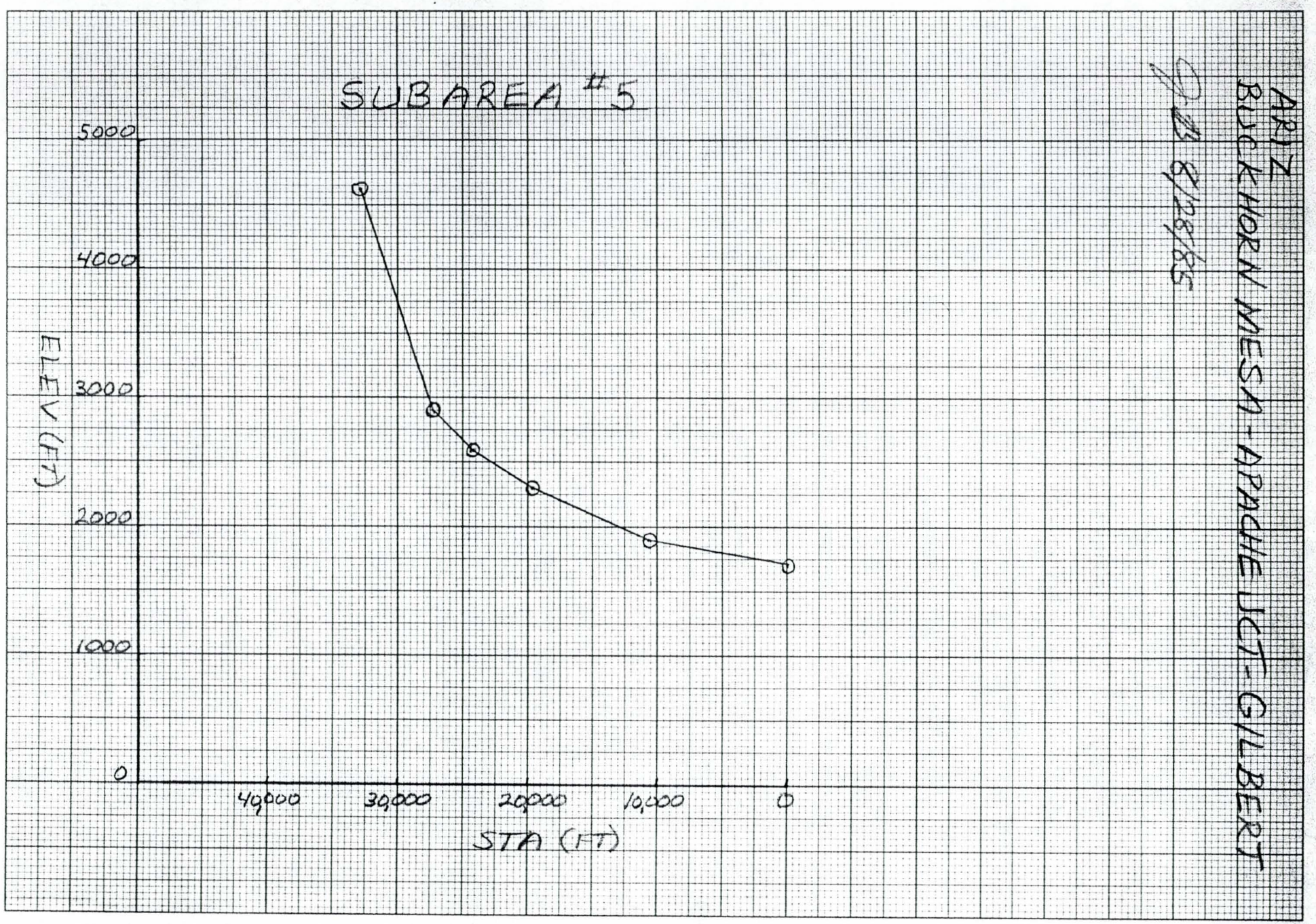
5000
4000
3000
2000
1000
0

60,000 50,000 40,000 30,000 20,000 10,000 0

STA (FT)

K+E 20 X 20 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

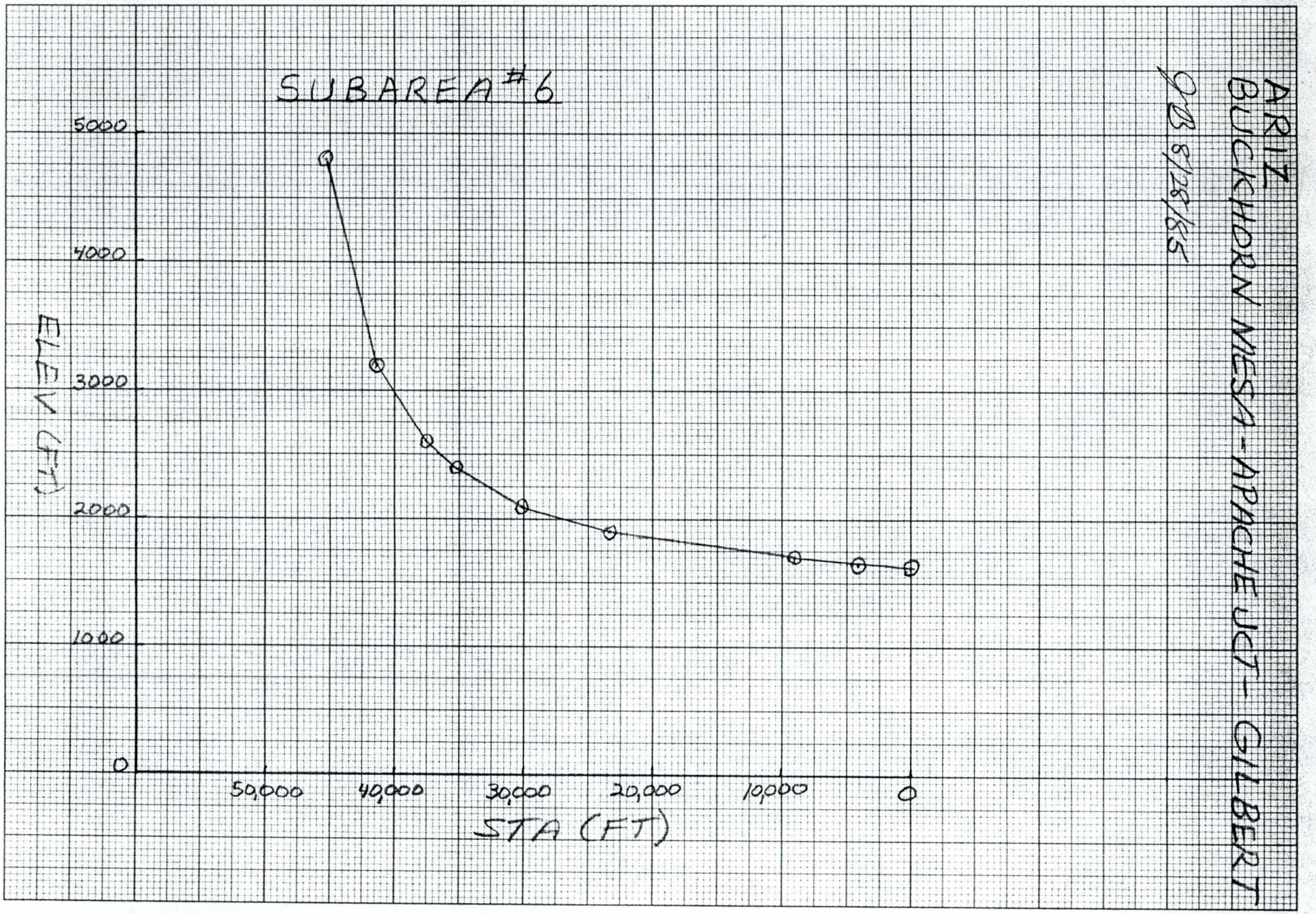
SUBAREA #5



AR, Z
BUCKHORN MESA-APACHE JCT-GILBERT
8/28/85

K+E 20 X 20 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

SUBAREA #6



ARIZ
BUCKHORN MESA - APACHE JCT - GILBERT
QB 5/28/85

U.S. Department of Agriculture
Soil Conservation Service (HM)

Project: Buckhorn Mesa - Apache Junction, Gilbert
Subject: Profile Data for Tc Calculations
Date: 8/28/85

Weekes Wash and Powerline Dams

Subarea #1

Elev	Elev	Length (Ft.)	Slope Ft./Ft.	Sta.
4620				66,100
	1520	3700	.4108	
3100				62,400
	500	2950	.1695	
2600				59,450
	300	3000	.1000	
2300				56,450
	200	4950	.0404	
2100				51,500
	100	8200	.0122	
2000				43,300
	100	8700	.0115	
1900				34,600
	200	19100	.0105	
1700				15,500
	140	15500	.0090	
1560				0

Subarea #2

1950				38,600
	50	4300	.0116	
1900				34,300
	200	18800	.0106	
1700				15,500
	140	15500	.0090	
1560				0

Subarea #3

1900				36,000
	100	8300	.0120	
1800				27,700
	50	3750	.0133	
1750				23,950
	50	5300	.0094	
1700				18,650
	50	6500	.0077	
1650				12,150
	50	6300	.0079	
1600				5,850
	40	5850	.0068	
1560				0

Subarea #4

Elev	Elev	Length (Ft.)	Slope Ft./Ft.	Sta.
4700				52,050
	1800	4100	.4390	
2900				47,950
	500	2900	.1724	
2400				45,050
	300	3500	.0857	
2100				41,550
	200	7800	.0256	
1900				33,750
	150	13300	.0113	
1750				20,450
	50	7900	.0063	
1700				12,550
	50	8800	.0057	
1650				3,750
	25	3750	.0067	
1625				0

Subarea #5

4630				32,850
	1730	5500	.3145	
2900				27,350
	300	3000	.1000	
2600				24,350
	300	4650	.0645	
2300				19,700
	400	9100	.0439	
1900				10,600
	700	10600	.0189	
1700				0

Subarea #6

4800				45,250
	1600	3800	.4210	
3200				41,450
	600	3850	.1558	
2600				37,600
	200	2250	.0889	
2400				35,350
	300	5200	.0577	
2100				30,150
	200	6850	.0292	
1900				23,300
	200	14100	.0142	
1700				9,200
	50	5000	.0100	
1650				4,200
	30	4200	.0059	
1625				0

ARIZONA Weeks Wash and

Hem 9/24/85

PSH RUNOFF DISTRIBUTION USING HP-41C Program developed by Gary Comer & Art Molina.

TIME (Hrs)	RUNOFF[1] (IN/IN)	DA = 46.33 Q_1 = 1.33 Q_2 = 2.07	RUNOFF[1] (IN/IN)
0.0	.0.0		0.0
0.5	.0102		.0103
1.0	.0215		.0216
1.5	.0339		.0342
2.0	.0480		.0484
2.5	.0641		.0647
3.0	.0833		.0840
3.5	.1072		.1080
4.0	.1393		.1404
4.5	.1914		.1927
4.6	.2055		.2068
4.7	.2230		.2244
4.8	.2466		.2481
4.9	.2848		.2864
5.0	.6776		.6960
5.1	.7564		.7549
5.2	.7854		.7840
5.3	.8054		.8041
5.4	.8210		.8198
5.5	.8339		.8327
6.0	.8734		.8724
6.5	.9007		.8999
7.0	.9219		.9213
7.5	.9395		.9390
8.0	.9545		.9541
8.5	.9677		.9674
9.0	.9795		.9793
9.5	.9902		.9901
10.0	1.0000		1.0000

NOTE: [1] These Value were interpolated on 0.1 interval for TR-20 program.

Weeks Wash and Pinto Creek

DA = 37.59 mi²

Q_1 = 1.28

Q_{10} = 2.00

1.5	0.0341
2.0	0.0481
2.5	0.0647
3.0	0.0840
3.5	0.1080
4.0	0.1404
4.5	0.1927
4.6	0.2068
4.7	0.2244
4.8	0.2481
4.9	0.2864
5.0	0.6960
5.1	0.7549
5.2	0.7840
5.3	0.8041
5.4	0.8198
5.5	0.8327
6.0	0.8724
6.5	0.8999
7.0	0.9213
7.5	0.9390
8.0	0.9541
8.5	0.9674
9.0	0.9793
9.5	0.9901
10.0	1.0000

DA = 46.33

Q_1 = 1.33

Q_{10} = 2.07

0.5	0.0103
1.0	0.0216
1.5	0.0342
2.0	0.0484
2.5	0.0647
3.0	0.0840
3.5	0.1080
4.0	0.1393
4.5	0.1914
4.6	0.2055
4.7	0.2230
4.8	0.2466
4.9	0.2848
5.0	0.6960
5.1	0.7564
5.2	0.7854
5.3	0.8054
5.4	0.8210
5.5	0.8339
6.0	0.8734
6.5	0.9007
7.0	0.9219
7.5	0.9395
8.0	0.9545
8.5	0.9677
9.0	0.9795
9.5	0.9902
10.0	1.0000

ARIZONA Weeks Wash and Powerline Dams

Hem 9/24/85

PSH RUNOFF DISTRIBUTION USING HP-41C Program developed by Gary Conaway and/or Art Molina.

TIME (Hrs)	RUNOFF [1] (IN/IN) DA = 46.33 Q_1 = 1.33 Q_2 = 2.07	RUNOFF [1] (IN/IN) DA = 37.59 mi² Q_1 = 1.28 Q_2 = 2.00
0.0	0.0	0.0
0.5	.0102	.0103
1.0	.0215	.0216
1.5	.0339	.0342
2.0	.0480	.0484
2.5	.0641	.0647
3.0	.0833	.0840
3.5	.1072	.1080
4.0	.1393	.1404
4.5	.1914	.1927
4.6	.2055	.2068
4.7	.2230	.2244
4.8	.2466	.2481
4.9	.2848	.2864
5.0	.6776	.6960
5.1	.7564	.7549
5.2	.7854	.7840
5.3	.8054	.8041
5.4	.8210	.8198
5.5	.8339	.8327
6.0	.8734	.8724
6.5	.9007	.8999
7.0	.9219	.9213
7.5	.9395	.9390
8.0	.9545	.9541
8.5	.9677	.9674
9.0	.9795	.9793
9.5	.9902	.9901
10.0	1.0000	1.0000

NOTE: These Values were interpolated on 0.1 Day or 2.4 Hour interval for TR-20 program.

AR12. Weeks Wash & Powerline Dams

HRM 9/18/85

Diversion of 1-Day & 10-Day Runoff Volumes for UM Controlled Area above Powerline Dam (D.A = 37.59 Mi²)

Given: Climatic Index = 0.253 (See McArthur's Report entitled "Review of Design Precipitation, Buckhorn Mesa watershed, dated 8/79)

FIND: Modified Channel Loss Factor (MCL)

Soil Group	D.A.[1] (Mi²)	MCL for[2] 37.59 Mi²	DA X MCL (Mi²)
A	0.75	0.455	0.341
B	16.37	0.586	9.593
B-C 60%B 40%C	3.97	0.642	2.549
C	6.30	0.725	4.568
D	10.20	0.863	8.803
	37.59		25.854

WT MCL = 25.854 / 37.59 = 0.688

[1] See CN Calc. Data [2] See Tech Note PD-4 dated 9/15/71

GIVEN: Precipitation Values (See McArthur's Report)

24-Hr Point Precip, 100-YR = 4.05"
Areal Reduction Factor (Table 2-3A TR-60, 8/81) = 0.956
24-HR Precip, 100-Yr = 3.87"

10-Day Point Precip, 100-YR = 7.05"
Areal Reduction Factor (Table 2-3A TR-60, 8/81) = 0.978
10-Day Areal Precip, 100-YR = 6.89"

Storm Dur. (Days)	Areal Precip (IN)	RCN (Weighted)	Gross Q (IN)	MCL	NET Q (IN.)
1	3.87	79	1.86	0.688	1.28
10	6.89	64	2.90	0.688	2.00

ARIZONA — WEEKS WASH - POWERLINE DAMS

BY Hsm DATE 9/18/85 CHECKED BY DATE JOB NO.

SUBJECT PRECIPITATION FREQUENCY RELATIONSHIP

SHEET OF

SOURCE: NOAA ATLAS 2, "Precipitation Frequency Atlas of Western U.S. Vol VIII, ARIZONA"

USED

6-HOUR POINT PRECIP

FREQ (YRS)	MAP VALUE (IN.)	FACTOR	PLOTTED VALUE (IN)	VALUE USED (IN)	McAUTHUR'S [1] VALUE FOR BUCKHORN MESA
100	3.17	1.00	3.17	3.30	3.28
50	2.90	1.00	2.90	2.90	2.89
25	2.60	1.00	2.60	2.55	2.50
10	2.06	0.99	2.04	2.04	2.04
5	1.75	0.96	1.68	1.68	1.67
2	1.23	0.88	1.08	1.15	1.13

24-HOUR POINT PRECIP

100	4.00	1.00	4.00	4.10	4.05
50	3.60	1.00	3.60	3.60	3.58
25	3.20	1.00	3.20	3.18	3.15
10	2.60	.99	2.57	2.57	2.58
5	2.20	.96	2.11	2.11	2.10
2	1.60	.88	1.41	1.46	1.45

USED

[1] See Signal Butte FRS Design Hydrology Notebook for a Complete Copy of Precipitation Analysis of Buckhorn Mesa WS by Robin McAuthur, dated 8/79. Since the above values are very close to McAuthur's and for Consistency purposes, it was decided to use McAuthur's values for the present Study. Hsm

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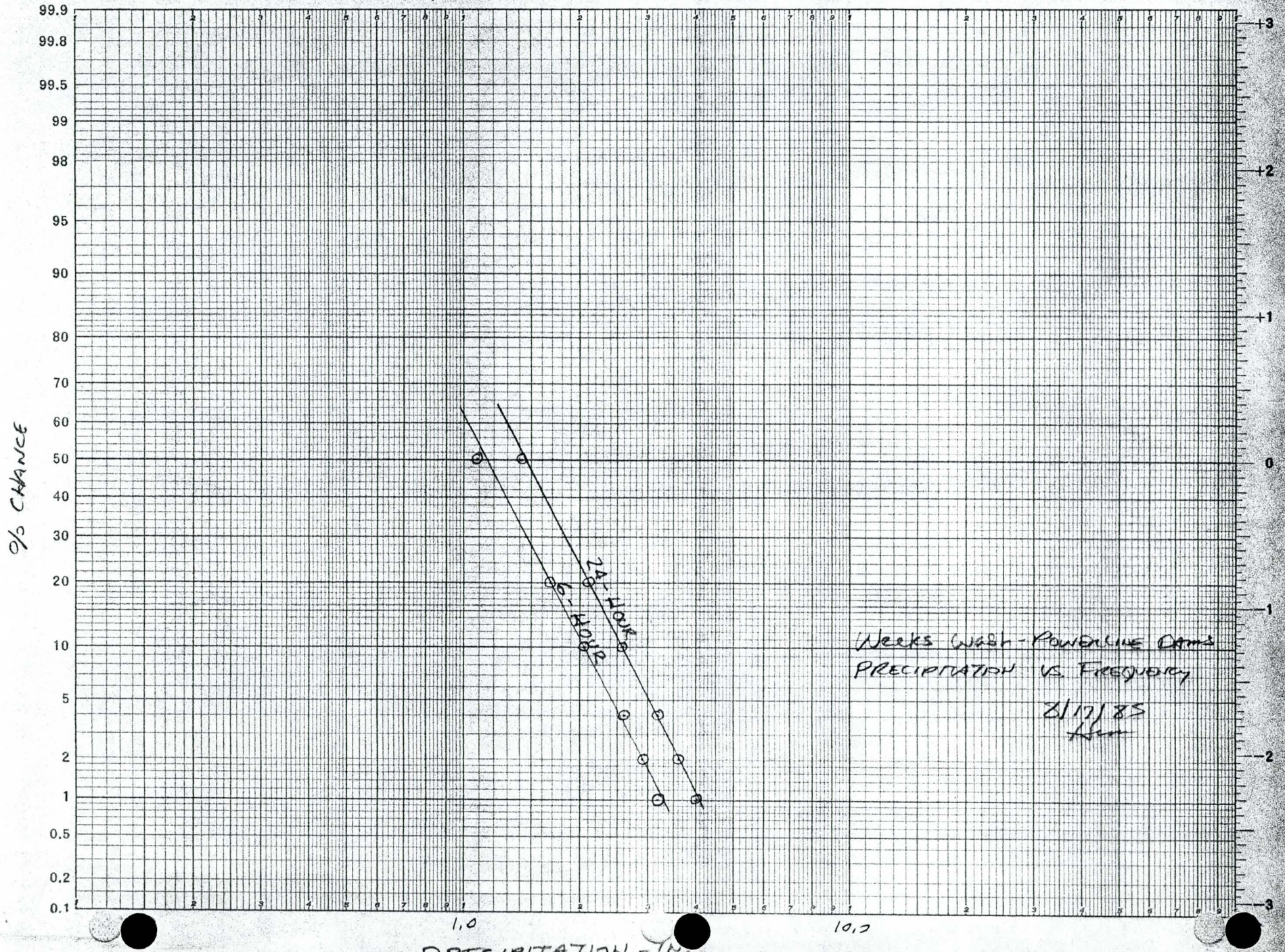
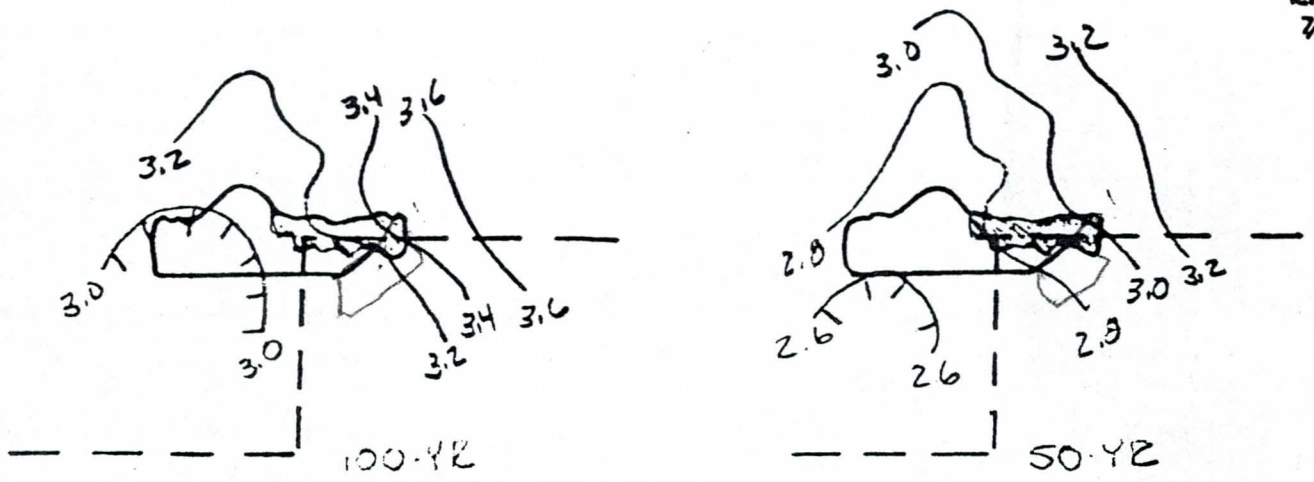
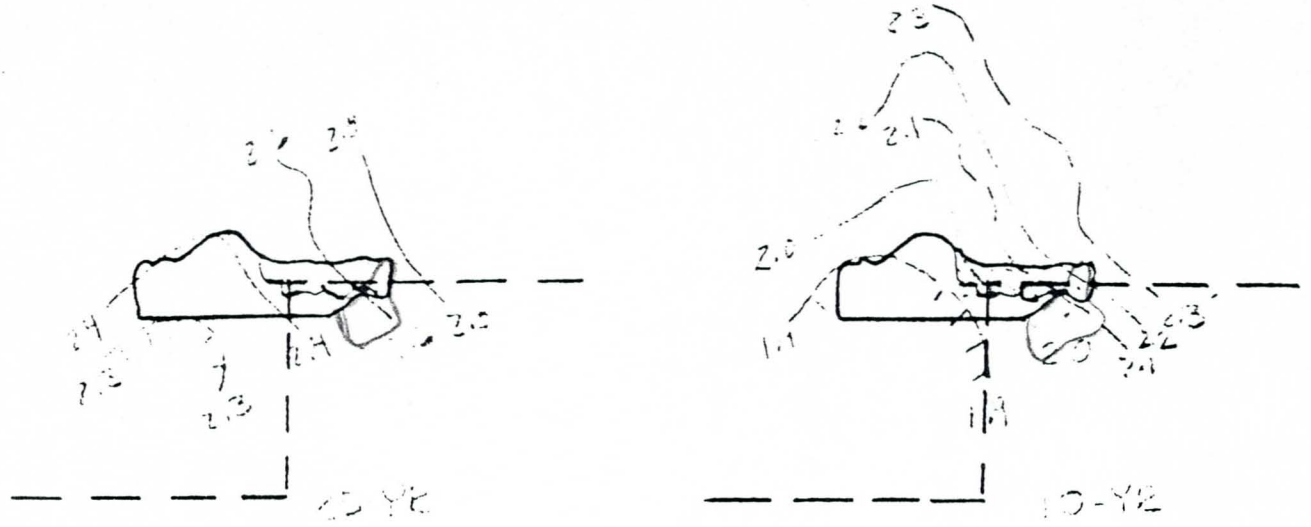
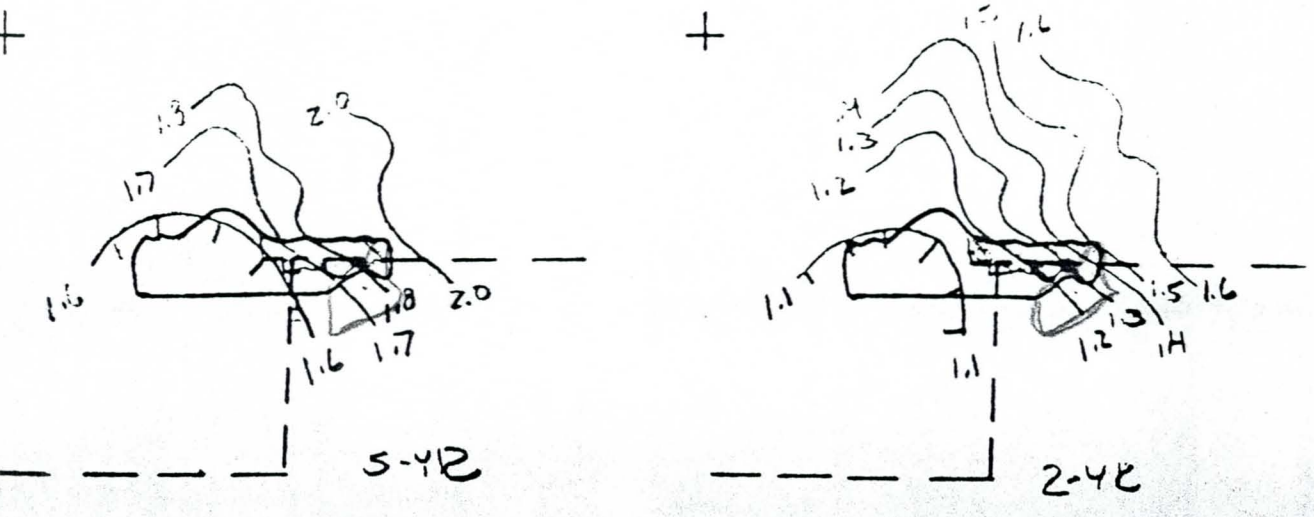


SOURCE: NOAA ATLAS 2 "PRECIPITATION-FREQUENCY ATLAS OF WESTERN UNITED STATES" VOL. VIII ARIZONA

RPM 7/30/79







6 HR DURATION

BUCKHORN-MESA WATERSHED
PRECIPITATION ISOHYETS

SOURCE: NOAA ATLAS 2 "PRECIPITATION-FREQUENCY ATLAS OF WESTERN UNITED STATES" VOL. VIII ARIZONA

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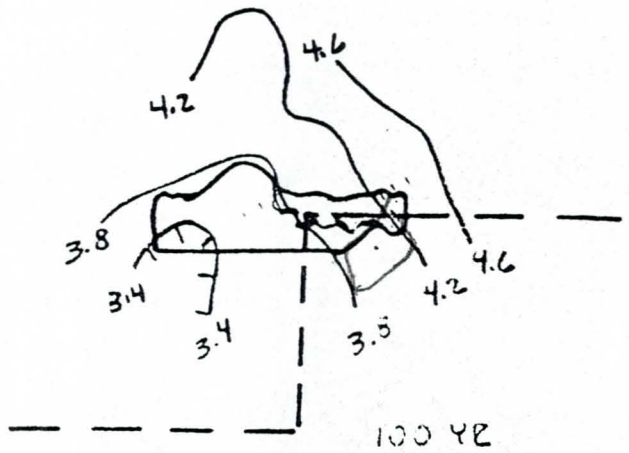
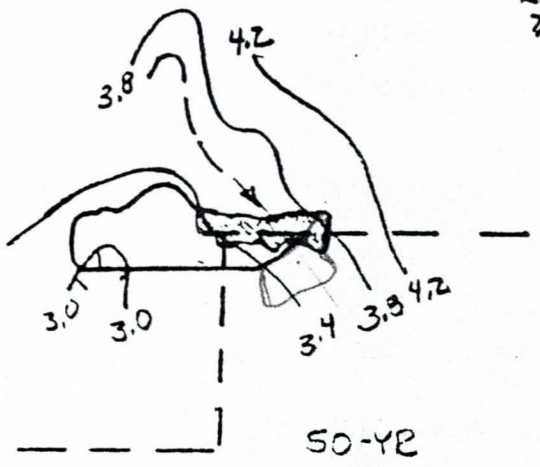
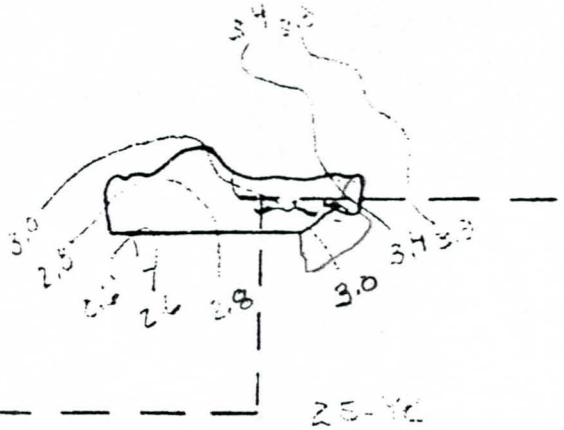


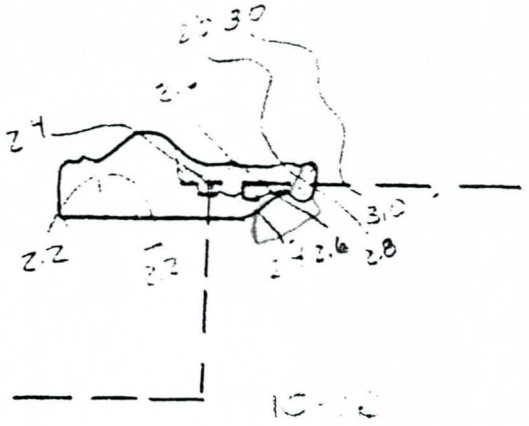
100 YR



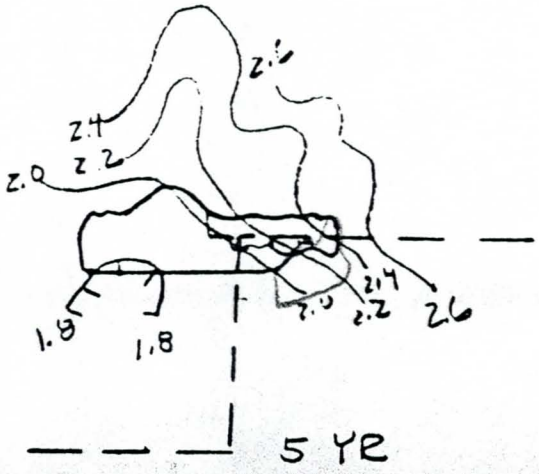
50-YR



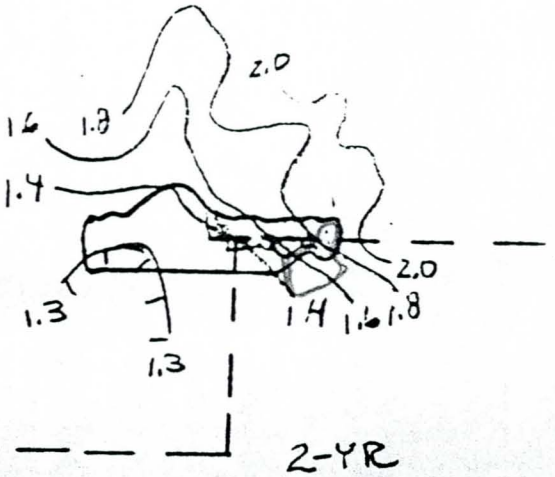
25-YR



10-YR



5 YR



2-YR

24-HR DURATION

BUCKHORN-MESA WATERSHED
PRECIPITATION ISOHYETS

Weekes Wash - Powerline Dam Analysis
PSH Data

Precipitation data for the 6-hour and 24-hour durations were taken from NOAA Atlas 2, "Precipitation Frequency Atlas of Western U.S., Volume VIII, Arizona, using procedures as outlined in PO-6 (Rev 2) dated 10/21/75. This was compared to those developed by Robin McArthur for the Buckhorn Mesa W/S dated 8/79, and were found to be in close agreement. Therefore, in order to be consistent, it was decided to use Mr. McArthur's values for the present study.

The 1-day and 10-day runoff values were then derived using the procedures of PO-2 (Rev 2) and TSC, Technical Note, PO-4 dated 9/15/71. Since the modified channel loss factor (from PO-4) varies with drainage area size, it was decided to estimate the net runoff for both the uncontrolled area of Powerline Dam and its total drainage area which includes the Weekes Wash FRS drainage area. These values are respectively Q, = 1.28" and Qp = 2.00" for the uncontrolled area and Q, = 1.33" and Qp, = 2.07" for the total drainage area. These values were used in an HP-41C computer program developed by Gary Conaway which computes a mass runoff curve for each condition. The mass curve was then used in the TR-20 computer program with a CH = 100 and estimated the PSH for the two drainage areas.

COMPUTATION SHEET

STATE ARIZONA BUCKHORN-MESA WATERSHED

BY R. McArthur 7/30/79 CHECKED BY Him 11/19/80

PRECIPITATION-FREQUENCY RELATIONSHIP

SOURCE: NOAA ATLAS 2 "PRECIPITATION-FREQUENCY ATLAS OF WESTERN U.S. VOL. VIII ARIZONA

Note! See Signal Butte FRS Design Notebook for a complete Copy of Precipitation Analysis of Buckhorn Mesa wds by Robin McArthur 12/22/83 Atm

6 HR DURATION POINT PRECIP

FREQUENCY (Yrs)	MEAN MAP VALUE (In)	FACTOR	PLOTTED ANNUAL SERIES VALUE (In)	ANNUAL SERIES VALUE USED (In)
100	3.28 ✓	1.00 ✓	3.28	3.28 ✓
50	2.89 ✓	1.00 ✓	2.89	2.89 ✓
25	2.56 ✓	1.00 ✓	2.56	2.50 ✓
10	2.08 ✓	0.99 ✓	2.06	2.04 ✓
5	1.76 ✓	0.96 ✓	1.69	1.67 ✓
2	1.27 ✓	0.88 ✓	1.12	1.13 ✓

24 HR DURATION POINT PRECIP

FREQUENCY (Yrs)	MEAN MAP VALUE (In.)	FACTOR	PLOTTED ANNUAL SERIES VALUE (In)	ANNUAL SERIES VALUE USED (In)
100	4.00 ✓	1.00 ✓	4.00	4.05 ✓
50	3.58 ✓	1.00 ✓	3.58	3.58 ✓
25	3.18 ✓	1.00 ✓	3.18	3.15 ✓
10	2.59 ✓	0.99 ✓	2.56	2.58 ✓
5	2.23 ✓	0.96 ✓	2.14	2.10 ✓
2	1.63 ✓	0.88 ✓	1.43	1.45 ✓

AR12 Weeks Wash & Powerline Dams

Hsm 9/18/85

Derivation of 1-Day And 10-Day Runoff Volumes for Total Drainage Area (including Weeks Wash FRS), above Powerline Dam (D.A. = 46.33 Mi²)

Given: Climatic Index = 0.253 (See McArthur's Report entitled, "Review of Design Precipitation, Buckhorn Mesa W/S, dated 8/79)

FIND: Modified Channel Factor (MCL)

Soil Group	DA [1] (Mi²)	MCL for [2] 46.33 Mi²	DA X MCL (Mi²)
A	0.81	0.435	0.352
B	18.65	0.573	10.686
B-C	3.97	0.630	2.501
C	8.37	0.715	5.985
D	14.52	0.860	12.487
	46.33		32.011

WT MCL = $\frac{32.011}{46.33}$ = 0.691

[1] See CN Calc. Data [2] See Tech Note PO-4, dated 9/15/71

GIVEN:

Precipitation Values (See McArthur's Report)

24-Hr Point Precip, 100-yr = 4.05"
Areal Reduction Factor (Table 2-3A TR-60, 8/81) = 0.954
24-Hr Precip, 100-yr = 3.85"

10-Day Point Precip, 100-yr = 7.05"
Areal Reduction Factor (Table 2-3A TR-60, 8/81) = 0.976
10-Day Areal Precip, 100-yr = 6.88"

Storm Dur (Days)	Areal Precip (In.)	RCN (Weighted)	Gross Q (In.)	MCL	NET Q (In.)
1	3.85	80	1.92	0.691	1.33
10	6.88	65	3.00	0.691	2.07

ARIZONA BUCKHORN-MESA WATERSHED

R. McArthur 7/30/79 Item 11/19/80

COMPUTATION OF 10 DAY POINT PRECIP VALUES

GIVEN: MEAN POINT PRECIP VALUES DERIVED FROM NOAA ATLAS 2 FOR 6 HR & 24 HR DURATIONS

FIND; USING TSC TECHNICAL NOTE-HYDROLOGY-PO-6 (Rev. 2) DETERMINE 10 DAY PRECIP VALUES

1. 2 Yr 6 Hr P = 1.27" Partial Duration
   2 Yr 24 Hr P = 1.63

2. Region, from Fig. B-1, is 7

3. 2 Yr 1 Hr $P = -0.011 + 0.942 \frac{(2\text{-yr 6-Hr})^2}{2\text{-yr 24 Hr}}$

$$= -0.011 + 0.942 \frac{(1.27)^2}{1.63}$$

$$= 0.92"$$

4. 2 Yr 10 Day Precip from Fig. B-2

$$= 2.7"$$

5. 100 Yr/2 Yr 10 Day Precip ratio from Fig B-3

$$= 2.61$$

6. 100 Yr 10 Day = 100 Yr/2 Yr X 2 Yr 10 Day

$$= 2.61 \times 2.7 = 7.05"$$

7. Annual series 2 yr 10 day Precip
   $= 0.88 \times 2.7 = 2.38"$

8. Plotted values shown with 6 Hr and 24 Hr values

Weekes Wash - Powerline Dam Analysis
ESH and FBH Rainfall

PMP values were developed for both the uncontrolled areas (37.59 mi.^{2}) and the total drainage area (46.33 mi.^{2}) of the Powerline FRS, based on procedures outlined in HMR-49, dated September 1977. Values were estimated for both the 6-hour and 24-hour PMP's.

The time distribution for the 6-hour PMP was based on HMR-5 as taken from Table 4.7, HMR-49. For the 24-hour PMP, the time distribution was based on HMR-43, with a 3, 1, 2, 4 distribution.

The Powerline Dam has been classified as a Class B structure, but in the POW, rainfall amounts were based on criteria lying about half way between a "B" and "C" class structures. Therefore, this latter criteria was used to estimate rainfalls for the present analysis. The appropriate rainfall equations were taken from Table 2-5, TR-6, Rev 8181.

ARIZ WEEKS WASH & POWERLINE DAMS

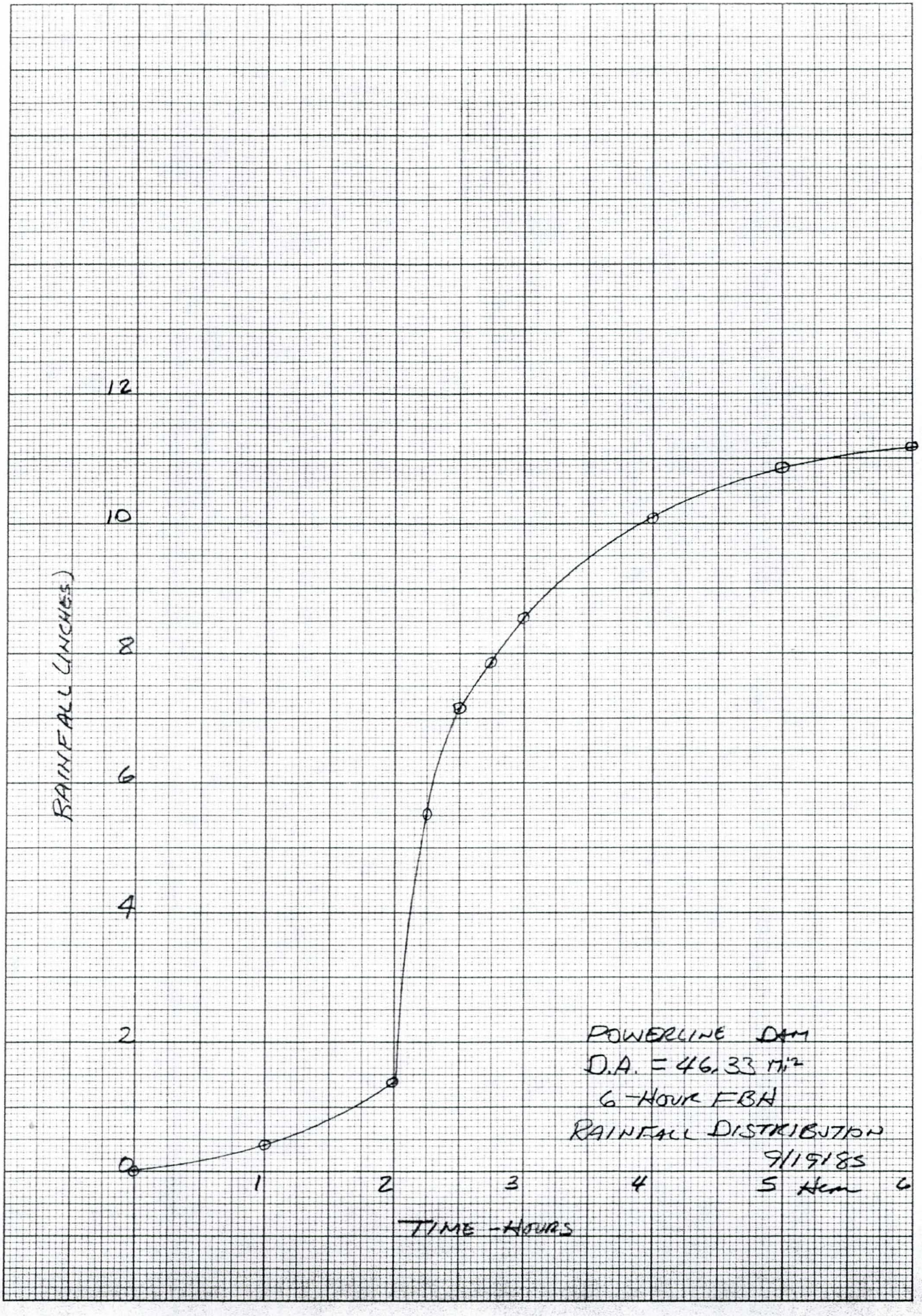
~~Hmm~~ 9/19/85

ESH & FBH RAINFALL DISTRIBUTION (6-HOUR)

(D.A = 46.33 MI²) INCLUDES WEEK WASH FRS DRAINAGE [1]

TIME (HRS)	Δ RAINFALL (IN) (FROM HMR-49)	ACC RAINFALL (IN) (FROM PLOTTING)	DIMENSIONLESS RATIO (IN/IN) (CALC)
0		0	0
0.25		0.08	.0072
0.50	0.40	0.17	.0152
0.75		0.28	.0251
1.00		0.40	.0358
1.25		0.60	.0538
1.50	0.96	0.80	.0717
1.75		1.06	.0950
2.00		1.36	.1219
2.25	4.12	5.48	.4910
2.50	1.66	7.14	.6398
2.75	0.72	7.86	.7043
3.00	0.69	8.55	.7661
3.25		9.05	.8109
3.50	1.54	9.47	.8486
3.75		9.82	.8799
4.00		10.09	.9041
4.25		10.35	.9274
4.50	0.75	10.55	.9453
4.75		10.72	.9606
5.00		10.84	.9713
5.25		10.96	.9821
5.50	0.32	11.04	.9892
5.75		11.11	.9955
6.00		11.16	1.0000

[1] Also used for Evaluation of Uncontrolled Area only, i.e. D.A = 37.59 MI²



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AR12 WEEKS WASH - POWERLINE DAMS

~~Hem~~ 9/20/85

ESH & FBH RAINFALL DISTRIBUTION, 24-HOUR

DA = 46.33 Mi²

TIME HRS	RAINFALL [1] (IN)	DIMENSIONLESS [2] RATIO	TIME HRS	RAINFALL [1] (IN)	DIMENSIONLESS [2] RATIO
0.0	0.00	0.000	12.5	10.85	.7750
0.5	0.11	.0078	13.0	11.14	.7957
1.0	0.21	.0150	13.5	11.40	.8143
1.5	0.30	.0214	14.0	11.64	.8314
2.0	0.40	.0286	14.5	11.88	.8486
2.5	0.52	.0371	15.0	12.07	.8621
3.0	0.64	.0457	15.5	12.26	.8757
3.5	0.77	.0550	16.0	12.43	.8879
4.0	0.90	.0643	16.5	12.60	.9000
4.5	1.05	.0750	17.0	12.73	.9093
5.0	1.21	.0864	17.5	12.87	.9193
5.5	1.36	.0971	18.0	13.00	.9286
6.0	1.50	.1071	18.5	13.11	.9364
6.5	1.75	.1250	19.0	13.22	.9443
7.0	2.12	.1514	19.5	13.32	.9514
7.5	2.55	.1821	20.0	13.43	.9593
8.0	3.15	.2250	20.5	13.52	.9657
8.5	4.50	.3214	21.0	13.60	.9714
9.0	5.80	.4143	21.5	13.70	.9786
9.5	6.95	.4964	22.0	13.76	.9829
10.0	8.00	.5714	22.5	13.83	.9879
10.5	8.99	.6421	23.0	13.89	.9921
11.0	9.65	.6893	23.5	13.95	.9964
11.5	10.10	.7214	24.0	14.00	1.0000
12.0	10.50	.7500			

[1] TAKEN FROM Attached Plotting

[2] ALSO USED FOR EVALUATION OF UNCONTROLLED AREA ONLY (DA = 37.59 Mi²)

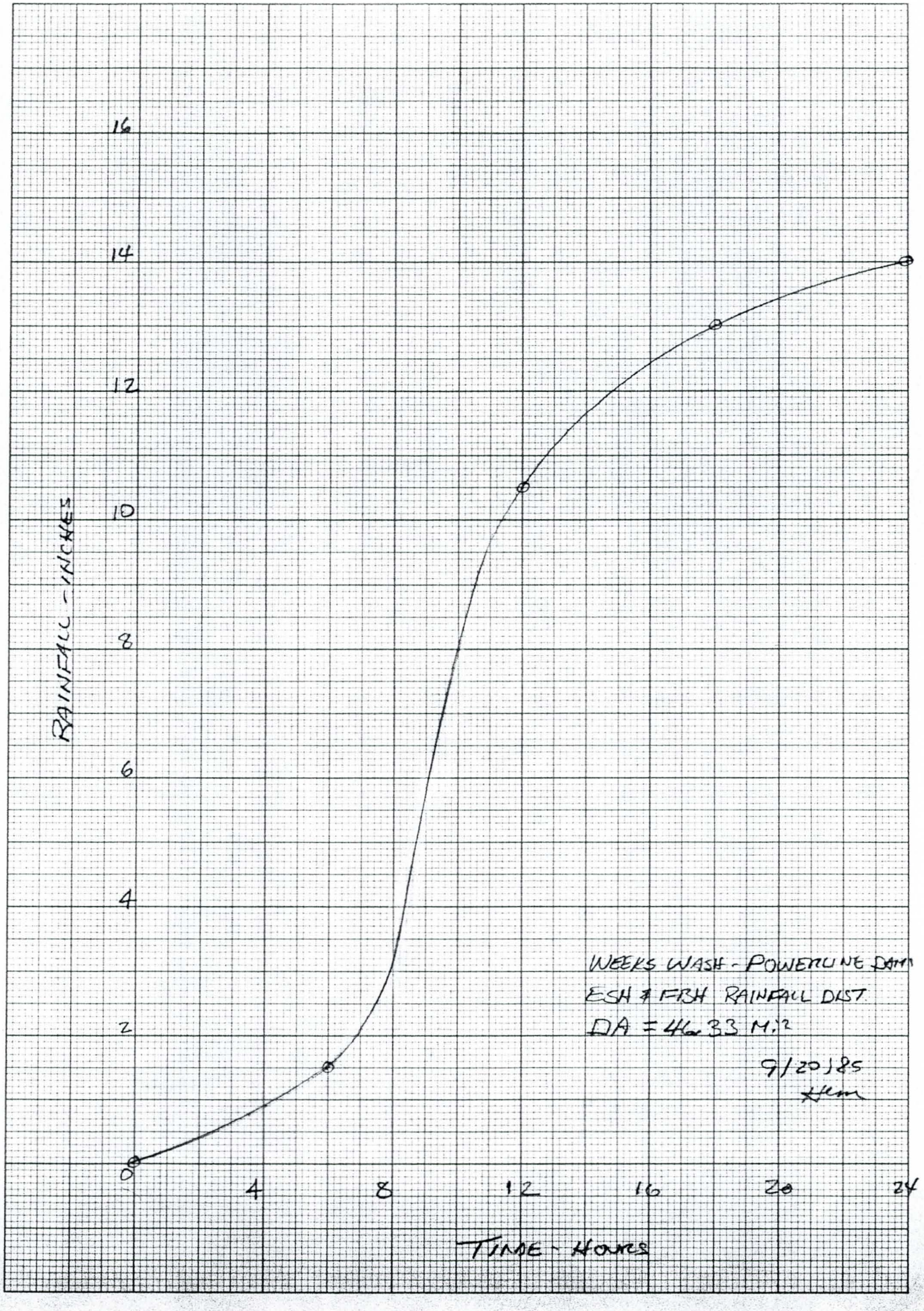
ARIZ WEEKS WASH & POWERLINE DATA

Hem 9/19/85

ESH & FRH RAINFALL DISTRIBUTION (24-HOUR)

DA = 46.33 (INCLS. WEEKS WASH FRS Drainage)

	TIME (Hrs)	Δ RAINFALL (IN.)	ACC RAINFALL (IN)	DIMENSIONLESS RATIO (IN/IN)
6-HOUR	0		0	0
DIST		1.5		
3	6		1.5	.1071
1		9.0		
2	12		10.5	0.7500
4		2.5		
Frm	18		13.0	.9286
NMR-43		1.0		
	24		14.0	1.0000



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ARIZONA WEEKS WASH & POWERLINE DAMS

BY Ham DATE 9/19/85 CHECKED BY DATE

SUBJECT ESH & FBH PRECIPITATION FOR POWERLINE DAM, CLASS B STRUCTURES, BUT B-C CRITERIA WAS USED (D.A = 37.59 mi² FOR UNCONTROLLED AREA ONLY)

6-HOUR ESH & FBH

CLASS B: $P_{ESH_6} = P_{100_6} + 0.12(PMP_6 - P_{100_6})$

$P_{100} = 3.28 \times 0.94 = 3.08$

(P0-4, FIG A1, dated 10/21/75)

$PMP_6 = 11.61''$ (HMR-49, LOCAL STORM)

$P_{ESH_6} = 3.08 + 0.12(11.61 - 3.08) = 4.10''$

$P_{FBH_6} = P_{100_6} + 0.40(PMP_6 - P_{100_6})$

$= 3.08 + 0.40(11.61 - 3.08) = 6.49''$

CLASS C: $P_{ESH_6} = P_{100_6} + 0.26(PMP_6 - P_{100_6})$

$= 3.08 + 0.26(11.61 - 3.08) = 5.30''$

$P_{FBH_6} = PMP_6 = 11.61''$

CLASS B-C: $P_{ESH_6} = \frac{4.10 + 5.30}{2} = 4.70''$ * ← USED

$P_{FBH_6} = \frac{6.49 + 11.61}{2} = 9.05''$ *

24-HOUR ESH & FBH

TR-60 TABLE 2-3 DATED 8/81

CLASS B: $P_{ESH_{24}} = P_{100_{24}} + 0.12(PMP_{24} - P_{100_{24}})$

$= 3.87 + 0.12(14.3 - 3.87) = 5.12''$

$P_{100_{24}} = 4.05 \times 0.955 = 3.87''$

$PMP_{24} = 14.3$ (HMR-49, Gen. Storm)

$P_{FBH_{24}} = P_{100_{24}} + 0.40(PMP_{24} - P_{100_{24}})$

$= 3.87 + 0.40(14.3 - 3.87) = 8.04''$

CLASS C: $P_{ESH_{24}} = P_{100_{24}} + 0.26(PMP_{24} - P_{100_{24}})$

$= 3.87 + 0.26(14.3 - 3.87) = 6.58''$

$P_{FBH_{24}} = PMP_{24} = 14.30''$

CLASS B-C: $P_{ESH_{24}} = \frac{5.12 + 6.58}{2} = 5.85''$ * ← USED

$P_{FBH_{24}} = \frac{8.04 + 14.30}{2} = 11.17''$ *

Table 6.3A.--Local-storm PMP computation, Colorado River, Great Basin and California drainages. For drainage average depth PMP. Go to table 6.3B if areal variation is required.

Drainage UNCONTROLLED AREA POWERLINE DAM Area 37.59 mi^2 ~~(km^2)~~
Latitude 33° 25' Longitude 111° 29' Minimum Elevation 550 ft ~~(m)~~

Steps correspond to those in sec. 6.3A.

1. Average 1-hr 1-mi^2 (2.6-km^2) PMP for drainage [fig. 4.5]. 11.6 in. ~~(mm)~~

2. a. Reduction for elevation. [No adjustment for elevations up to 5,000 feet (1,524 m): 5% decrease per 1,000 feet (305 m) above 5,000 feet (1,524 m)]. 100 %

   b. Multiply step 1 by step 2a. 11.6 in. ~~(mm)~~

3. Average 6/1-hr ratio for drainage [fig. 4.7]. 1.30

	Duration (hr)								
	1/4	1/2	3/4	1	2	3	4	5	6
4. Durational variation for 6/1-hr ratio of step 3 [table 4.4].	74	89	95	100	114	121	125	128	130 %
5. 1-mi^2 (2.6-km^2) PMP for indicated durations [step 2b X step 4].	8.58	10.32	11.02	11.60	13.22	14.04	14.50	14.85	15.08 in. ~~(mm)~~
6. Areal reduction [fig. 4.9].	53	59	63	66	69	72	73	75	77 %
7. Areal reduced PMP [steps 5 X 6].	4.80	6.09	6.94	7.66	9.12	10.11	10.59	11.14	11.61 in. ~~(mm)~~

8. Incremental PMP [successive subtraction in step 7]. 7.66 1.46 0.99 0.48 0.55 0.47 in. ~~(mm)~~

   4.80 1.29 0.85 0.72 } 15-min. increments

9. Time sequence of incremental PMP according to:

   Hourly increments [table 4.7]. 0.48 0.99 7.66 1.46 0.55 0.47 in. ~~(mm)~~ HMR-5

   Four largest 15-min. increments [table 4.8]. 4.80 1.29 0.85 0.72 in. ~~(mm)~~

Table 6.1.--General-storm PMP computations for the Colorado River and Great basin (UNCONTROLLED AREA ONLY)

Drainage POWERLINE DAM Area 37.59 mi^2 ~~(km^2)~~

Latitude 33° 25', Longitude 111° 29' of basin center

Month AUGUST

Step	Duration (hrs) 6	12	18	24	48	72
A. Convergence PMP						
1. Drainage average value from one of figures 2.5 to 2.16	14 in. ~~(mm)~~					
2. Reduction for barrier-elevation [fig. 2.18]	80 %					
3. Barrier-elevation reduced PMP [step 1 X step 2]	11.2 in. ~~(mm)~~					
4. Durational variation [figs. 2.25 to 2.27 and table 2.7].	76 %	90 %	96 %	100 %	111 %	115 %
5. Convergence PMP for indicated durations [steps 3 X 4]	8.51 in. ~~(mm)~~	10.08	10.75	11.20	12.43	12.88
6. Incremental 10 mi^2 (26 km^2) PMP [successive subtraction in step 5]	8.51 in. ~~(mm)~~	1.57	0.67	0.45	1.23	0.45
7. Areal reduction [select from figs. 2.28 and 2.29]	91 %	97.5 %	98.5 %	99.5 %	100 %	100 %
8. Areally reduced PMP [step 6 X step 7]	7.74 in. ~~(mm)~~	1.53	0.66	0.45	1.23	0.45
9. Drainage average PMP [accumulated values of step 8]	7.74 in. ~~(mm)~~	9.27	9.93	10.38	11.61	12.06
B. Orographic PMP						
1. Drainage average orographic index from figure 3.11a to d. (REVISED)	4.0 in. ~~(mm)~~					
2. Areal reduction [figure 3.20]	97 %					
3. Adjustment for month [one of figs. 3.12 to 3.17]	100 %					
4. Areally and seasonally adjusted PMP [steps 1 X 2 X 3]	3.88 in. ~~(mm)~~					
5. Durational variation [table ~~3.84~~ 3.9]	36 %	63 %	84 %	100 %	139 %	157 %
6. Orographic PMP for given durations [steps 4 X 5]	1.40 in. ~~(mm)~~	2.44	3.26	3.88	5.39	6.09
C. Total PMP						
1. Add steps A9 and B6	9.1 in. ~~(mm)~~	11.7	13.2	14.3	17.0	18.2

2. PMP for other durations from smooth curve fitted to plot of computed data.

3. Comparison with local-storm PMP (see sec. 6.3).

AR12. WEEKS WASH & POWERLINE DAMS

~~Hmm~~ 9/19/85

ESH & FBH PRECIPITATION FOR POWERLINE DAM, CLASS B STRUCTURE, BUT B-C CRITERIA WAS USED FOR TOTAL DA = 46.33 Mi^2 INCL. WEEKS WASHER

6-HOUR ESH & FBH

CLASS B: $ESH_6 = P_{100_6} + 0.12(PMP_6 - P_{100_6})$
$= 3.05 + 0.12(11.16 - 3.05) = 4.02''$

$P_{100_6} = 3.28 \times .93 = 3.05''$
Po=4, Fig A1 (10/78)
$PMP_6 = 11.16''$

$FBH_6 = P_{100_6} + 0.40(PMP_6 - P_{100_6})$
$= 3.05 + 0.40(11.16 + 3.05) = 6.29''$

CLASS C: $ESH_6 = P_{100_6} + 0.26(PMP_6 - P_{100_6})$
$= 3.05 + 0.26(11.16 + 3.05) = 5.16''$

$FBH_6 = PMP_6 = 11.16''$

CLASS B-C: $ESH_6 = \frac{4.02 + 5.16}{2} = 4.59''$ ** → USED

$FBH_6 = \frac{6.29 + 11.16}{2} = 8.73''$ *

24-HOUR ESH & FBH

TR-60 TABLE 2-3 DAM 8 181

CLASS B: $P_{ESH_{24}} = P_{100_{24}} + 0.12(PMP_{24} - P_{100_{24}})$
$= 3.85 + 0.12(14.0 - 3.85) = 5.07''$

$P_{100_{24}} = 4.05 \times .95 = 3.85$

$PMP_{24} = 14.0''$ ← HMR-49 (Gen Storm)

$P_{FBH_{24}} = P_{100_{24}} + 0.40(PMP_{24} - P_{100_{24}})$
$= 3.85 - 0.40(14.0 - 3.85) = 7.91''$

CLASS C: $P_{ESH_{24}} = P_{100_{24}} + 0.26(PMP_{24} - P_{100_{24}})$
$= 3.85 + 0.26(14.0 - 3.85) = 6.49''$

$P_{FBH_{24}} = PMP_{24} = 14.00''$

CLASS B-C: $P_{ESH_{24}} = \frac{5.07 + 6.49}{2} = 5.78''$ → USED

$P_{FBH_{24}} = \frac{7.91 + 14.00}{2} = 10.96''$ ←

Table 6.3A.--Local-storm PMP computation, Colorado River, Great Basin and California drainages. For drainage average depth PMP. Go to table 6.3B if areal variation is required.

TOTAL AREA

Drainage POWERLINE DAM Area 46.33 mi^2 ~~(km^2)~~

Latitude 33°25' Longitude 111° 29' Minimum Elevation ____ ft ~~(m)~~

Steps correspond to those in sec. 6.3A.

1. Average 1-hr 1-mi^2 (2.6-km^2) PMP for drainage [fig. 4.5]. 11.6 in. ~~(mm)~~

2. a. Reduction for elevation. [No adjustment for elevations up to 5,000 feet (1,524 m): 5% decrease per 1,000 feet (305 m) above 5,000 feet (1,524 m)]. 100 %

   b. Multiply step 1 by step 2a. 11.6 in. ~~(mm)~~

3. Average 6/1-hr ratio for drainage [fig. 4.7]. 1.30

	Duration (hr)								
	1/4	1/2	3/4	1	2	3	4	5	6
4. Durational variation for 6/1-hr ratio of step 3 [table 4.4].	74	89	95	100	114	121	125	128	130 %
5. 1-mi^2 (2.6-km^2) PMP for indicated durations [step 2b X step 4].	8.58	10.32	11.02	11.60	13.22	14.04	14.50	14.85	15.08 in. ~~(mm)~~
6. Areal reduction [fig. 4.9].	48	56	59	62	66	69	72	73	74 %
7. Areal reduced PMP [steps 5 X 6].	4.12	5.78	6.50	7.19	8.73	9.69	10.44	10.84	11.16 in. ~~(mm)~~
8. Incremental PMP [successive subtraction in step 7].				7.19	1.54	0.96	0.75	0.40	0.32 in. ~~(mm)~~
	4.12	1.66	0.72	0.69	} 15-min. increments				

9. Time sequence of incremental PMP according to:

   Hourly increments [table 4.7]. 0.40 0.96 7.19 1.54 0.75 0.32 in. ~~(mm)~~ HMR-5

   Four largest 15-min. increments [table 4.8]. 4.12 1.66 0.72 0.69 in. ~~(mm)~~

Table 6.1.--General-storm PMP computations for the Colorado River and Great basin (TOTAL AREA INCL WEEK WASH FRS D, A)

Drainage POWERLINE DAM Area 46.33 mi^2 (km^2)

Latitude 38°25', Longitude 111°29' of basin center

Month AUGUST

Step		Duration (hrs) 6	12	18	24	48	72
A.	Convergence PMP						
1.	Drainage average value from one of figures 2.5 to 2.16	14 in. ~~(mm)~~					
2.	Reduction for barrier-elevation [fig. 2.18]	80 %					
3.	Barrier-elevation reduced PMP [step 1 X step 2]	11.2 in. ~~(mm)~~					
4.	Durational variation [figs. 2.25 to 2.27 and table 2.7].	76 %	90 %	96 %	100 %	111 %	115 %
5.	Convergence PMP for indicated durations [steps 3 X 4]	8.51 in. ~~(mm)~~	10.08	10.75	11.20	12.43	12.88
6.	Incremental 10 mi^2 (26 km^2) PMP [successive subtraction in step 5]	8.51 in. ~~(mm)~~	1.57	0.67	0.45	1.23	0.45
7.	Areal reduction [select from figs. 2.28 and 2.29]	89 %	97 %	98 %	99 %	100 %	100 %
8.	Areally reduced PMP [step 6 X step 7]	7.57 in. ~~(mm)~~	1.52	.66	0.45	1.23	0.45
9.	Drainage average PMP [accumulated values of step 8]	7.57 in. ~~(mm)~~	9.09	9.75	10.20	11.43	11.88
B.	Orographic PMP						
1.	Drainage average orographic index from figure 3.11a to d. (REVISED)	4.0 in. ~~(mm)~~					
2.	Areal reduction [figure 3.20]	96 %					
3.	Adjustment for month [one of figs. 3.12 to 3.17]	100 %					
4.	Areally and seasonally adjusted PMP [steps 1 X 2 X 3]	3.84 in. ~~(mm)~~					
5.	Durational variation [table ~~3.84~~ 3.9]	36 %	63 %	84 %	100 %	139 %	157 %
6.	Orographic PMP for given durations [steps 4 X 5]	1.38 in. ~~(mm)~~	2.42	3.23	3.84	5.34	6.03
C.	Total PMP						
1.	Add steps A9 and B6	9.0 in. ~~(mm)~~	11.5	13.0	14.0	16.8	17.9
2.	PMP for other durations from smooth curve fitted to plot of computed data.						
3.	Comparison with local-storm PMP (see sec. 6.3).						

HMR-49 for Trinity Basin

Note:

The attached stage-storage data was developed by Rex Stone and S. M. Krahenbuhl during watershed work plan development. These were checked during the December 1983 Design Hydrology Analysis and found to be satisfactory and, therefore, used in the present analysis.

9/18/85 H.M.

COMPUTATION SHEET
SCS–ENG–522 REV. 3–69

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
GPO: 1969—O-337-908

STATE		PROJECT		
AR12		Buckhorn Mesa c/s		
BY Hem	DATE 12/14/83	CHECKED BY	DATE	JOB NO.

SUBJECT STAGE – STORAGE – DISCHARGE Weeks Wash FRS

SHEET ____ OF ____

ELEV (MSL)	NET STORAGE (Ac-FT)	DISCHARGE [1] (CFS)
1967	0.0	0
67.5	16.2	16
68.	32.5	46
68.5	49.7	87
69.	65.0	88
1970.5	129.3	91
72.1	212.9	94
75.2	421.9	100
74.7	545.9	103
77.8	641.5	105
78.3	686.7	106
78.8	734.3	106
79.3	789.7	107
1979.8	820.1	108
84.5	1357.7	1292.5
87.6	1774.7	5812.4
90.7	2243.6	12,053.4
96.9	3357.8	31,952.8
2000.0	4029.1	45388.2

[1] Based on E. Spy Pipe = 30" ϕ E Spy Bw = 200' & E. Spy Crest = 1981.8 As developed by Ken Stone & used in Work plan Analysis (See Work plan Supplement.) dated June 1976. Also See Weeks Wash Design Hydrology notebook By Millsaps IH December 1983.

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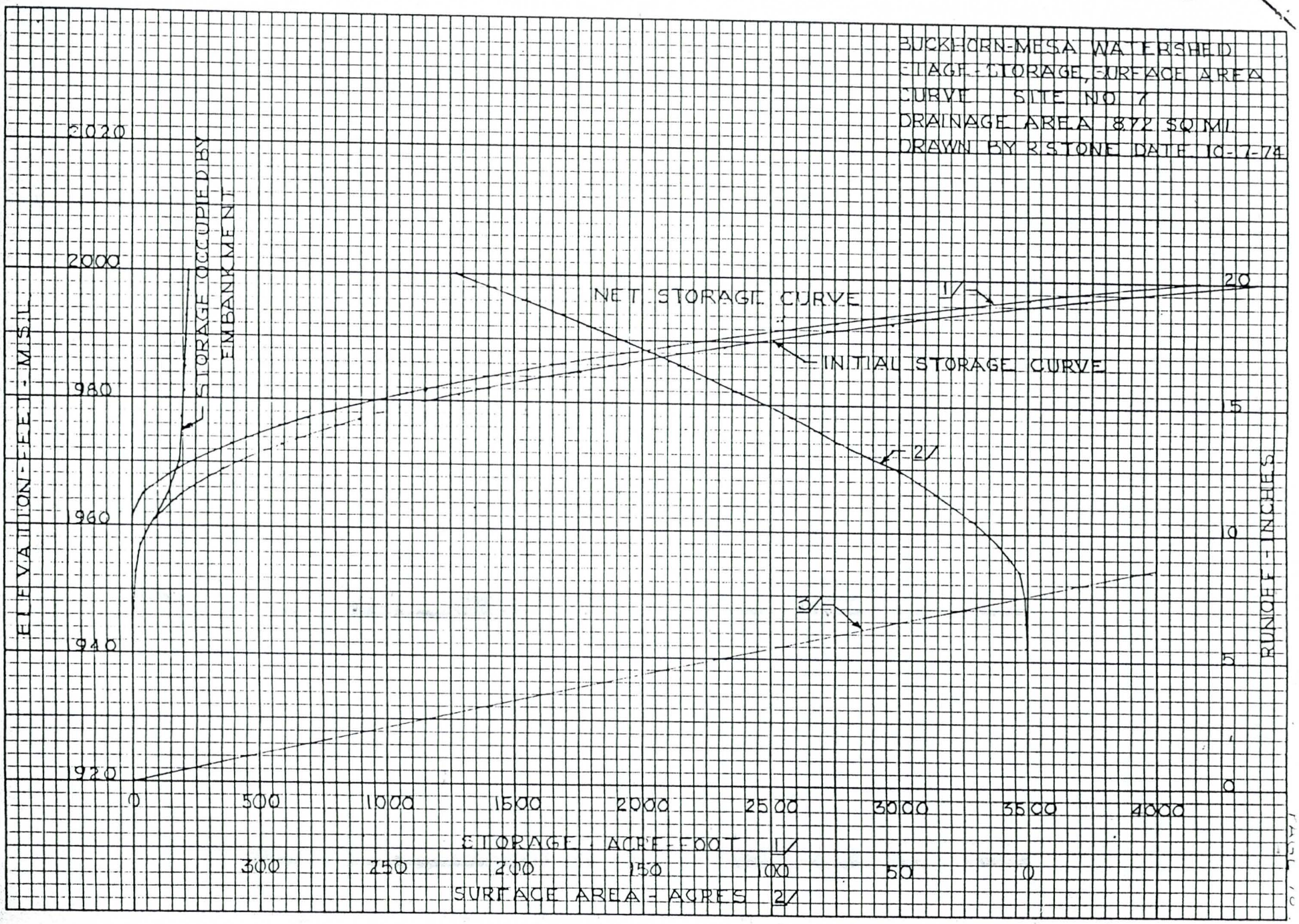


STATE	PROJECT		
Arizona	Buckhorn-Mesa Watershed		
BY	DATE	CHECKED BY	DATE
C. Stone	10-9-74	J. Krahenbuhl	10/18/74

SUBJECT: SITE DATA - Stage-Area-Storage Volume Computations Site No. 7

REFERENCE MATERIAL

Elev. (Ft)	Area (Ac)	Average Area (Ac)	Diff. in Elev. (Ft)	Storage Volume (Ac-Ft)	Σ Volume (Ac-Ft)	Volume Above Sediment Pool (Ac-Ft)	Increment of Proration (Ac-Ft)	Available Storage Volume (Ac-Ft)	Available Storage Volume (In)
1939.6					0				
1941					0				
1943					0				
1945					0				
1947					0				
1949					0				
1951					0				
1953					0				
1955					0				
1957					0				
1959					0				
1961					0				
1963					13.				

STATE	PROJECT		
Arizona	Buckhorn-Mesa Watershed		
BY	DATE	CHECKED BY	DATE
K. Stone	10-9-74	J. Krakenbuhl	10/18/74

SUBJECT: SITE DATA - Stage-Area-Storage Volume Computations Site No. 7

REFERENCE MATERIAL

Elev. (Ft)	Area (Ac)	Average Area (Ac)	Diff. in Elev. (Ft)	Storage Volume (Ac-Ft)	Σ Volume (Ac-Ft)	Volume Above Sediment Pool (Ac-Ft)	Increment of Proration (Ac-Ft)	Available Storage Volume (Ac-Ft)	(In)
1963					13.				
1965					44.				
1967					102	0	0	0	0
1969					152	50	15	65	
1971					276	176	28	148	
1973					396.	294	28	266	
1975					536	434	28	406	
1977					696.	594	28	566	
1979					874	772	28	744	
1981					1077.	975	28	947	
1983					1302.	1200	28	1172	
1985					1550.	1445	28	1420	
1987					1816	1716	28	1688	

U.S. DEPARTMENT OF AGRICULTURE
Soil Conservation Service

STATE	PROJECT		
Arizona	Buckhorn-Mesa		Watershed
BY	DATE	CHECKED BY	DATE
R. Stone	10-9-74	J. Krahenbuhl	10/18/74

SUBJECT: SITE DATA - Stage-Area-Storage Volume Computations Site No. 7

REFERENCE MATERIAL

Elev. (Ft)	Area (Ac)	Average Area (Ac)	Diff. in Elev. (Ft)	Storage Volume (Ac-Ft)	Σ Volume (Ac-Ft)	Volume Above Sediment Pool (Ac-Ft)	Increment of Proration (Ac-Ft)	Available Storage Volume (Ac-Ft)	Available Storage Volume (In)
1987					1818.	1716	28	1688	
1989					2108	2006	28	1978	
1991					2421.	2319	28	2291	
1993					2756.	2656	28	2628	
1995					3118.	3016	28	2988	
1997					3506.	3406	28	3378	
1999					3938.	3836	28	3808	
2001					4160	4058	28	4030	

STATE	PROJECT	
Arizona	Buckhorn-Mesa	Watershed

BY	DATE	CHECKED BY	DATE
R. Stone	10-9-74	J. Erdenbuhl	10/18/74

SUBJECT

Site Data - Net Storage Volume Computations Site No. 7

Site location: _____

Elevation	Storage		
	~~Stero Plot or~~ Adjusted	Occupied By Enbankment	Net
Ft.	Ac. Ft.	Ac. Ft.	Ac. Ft.
1939.6	0		0
1941	0		0
1943	0.1		0
1945	0.4		0
1947	1.0		0
1949	2.3		0
1951	4.3		0
1952.7	—	94.3	—
1953	10.9		0
1955	15.0		0
1957	23.0		0
1959	55.4		0
1961	87.6		0
1963 1964.3	133.8 143.3	130.7	13.0
1965	193.6	149.6	44.0
1965.8	—	161.6	—
1967	267.1	161.5	101.6
1969	344.6	175.0	182.6
1971	456.9	178.5	278.4
1973	581.0	185.0	396.0
1975	779.4	191.5	587.9
1977	894.5	198.0	696.5
1978.9	—	204.2	—
1979	1078.2	204.3	873.9
1981	1382.9	206.0	1076.9
1983	1509.4	207.8	1301.6
1985	1759.8	209.6	1550.2
1987	2027.8	211.3	1816.5
1989	2320.7	213.0	2107.7
1991	2625.9	214.7	2421.2
1992	—	215.5	—
1993	2974.6	216.4	2758.4
1995	3335.9	218.1	3117.8
1997	3707.6	219.8	3507.8
1999	4110.6	221.5	3938.1
2000	4362.7	222.3	4160.4

STATE	PROJECT		
Arizona	Burkham-Mesa		Watershed
BY	DATE	CHECKED BY	DATE
K. Stone	10-9-74	J. Fahenbuhl	10/18/74

SUBJECT

Site Data--Storage Occupied By Enbankment Site No. 7

Site location: _____

	Assumed	As Planned
Top of dam elevation	1992.0 ft.	_____ ft.
Floodplain elevation	− 1939.6 ft.	− _____ ft.
Maximum height of dam (H)	= 52.4 ft.	= _____ ft.

Assumed:

For (H) volume of fill is 579400 cu. yd.

Volume of fill converted to ac. ft. (Vt) is 579400 cu. yd./1613. = 359.206 ac. ft.

Volume of storage occupied by upstream portion of enbankment (Vi) = [upstream sideslope/(upstream plus downstream side slopes)] [Vt]

Vi = [3/(3+2)] [Vt]

Vi = (0.600) (359.206 ac. ft.) = 215.5 ac. ft.

Ratio of Elev. Above Floodplain to Assumed Top of Dam Above Floodplain	Elevation ft.	Percentage of Enbankment occupying the storage Pool ΔV/Vi %	Volume ac. ft.
1.0	1992.	100	215.5
3/4	1978.9	~~84.72~~ 94.75	204.2
1/2	1965.8	~~55.56~~ 75.00	161.6
1/4	1952.7	~~20.36~~ 43.75	94.3
0	1939.6	0	0

As Planned:

For (H) volume of fill is _____ cu. yd.

Volume of fill converted to ac. ft. (Vt) is _____ cu. yd./1613. = _____ ac. ft.

Volume of storage occupied by upstream portion of embankment

Vi = (0.600) (_____ ac. ft.) = _____ ac. ft.

Ratio of Elev. Above Floodplain to Assumed Top of Dam Above Floodplain	Elevation ft.	Percentage Of Embankment Occupying the Storage Pool ΔV/Vi %	Volume as Planned ac. ft.	Volume Assumed ac. ft.
1.0		100		
3/4		84.72		
1/2		55.56		
1/4		20.36		
0		0	0	0

Conclusion: _____

STATE	PROJECT		
Arizona	Buckhorn-Mesa Watershed		
BY	DATE	CHECKED BY	DATE
R. Stone	10-9-74	J. Krahenbuhl	10/18/74

SUBJECT: SITE DATA - Stage-Area-Storage Volume Computations (VOLUME OF STR. ENLARGEMENT) Site No. 7

REFERENCE MATERIAL

Elev. (Ft)	Area (Ac)	Average Area (Ac)	Diff. in Elev. (Ft)	Storage Volume (Ac-Ft)	Σ Volume (Ac-Ft)	Volume Above Sediment Pool (Ac-Ft)	Increment of Proration (Ac-Ft)	Available Storage Volume (Ac-Ft)	Available Storage Volume (In)
1939.6	0			0					
					0				
1940	0.02			0					
					0				
1942	0.04			0.1					
					0.1				
1944	0.14			0.3					
					0.4				
1946	0.30			0.6					
					1.0				
1948	0.64			1.3					
					2.3				
1950	1.97			3.9					
					6.2				
1952	2.34			4.7					
					10.9				
1954	3.74			7.5					
					16.4				
1956	7.32			14.6					
					33.0				
1958	11.22			22.4					
					55.4				
1960	16.08			32.2					
					87.6				
1962	22.60			45.2					
					132.8				

COMPUTATION SHEET

U.S. DEPARTMENT OF AGRICULTURE
Soil Conservation Service

STATE	PROJECT		
Arizona	Buckhorn - Mesa Watershed		
BY	DATE	CHECKED BY	DATE
R. Stone	10-8-74	J. Krahenbuhl	10/18/74

SUBJECT: SITE DATA - Stage-Area-Storage Volume Computations Site No. 7

REFERENCE MATERIAL

Elev. (Ft)	Area (Ac)	Average Area (Ac)	Diff. in Elev. (Ft)	Storage Volume (Ac-Ft)	Σ Volume (Ac-Ft)	Volume Above Sediment Pool (Ac-Ft)	Increment of Proration (Ac-Ft)	Available Storage Volume (Ac-Ft)	Available Storage Volume (In)
1962	22.60			45.2					
					132.8				
1964	30.40			60.8					
					193.6				
1966	36.74			73.5					
					267.1				
1968	43.73			87.5					
					354.6				
1970	51.17			102.3					
					456.9				
1972	62.05			124.1					
					581.0				
1974	73.21			146.4					
					727.4				
1976	83.55			167.1					
					894.5				
1978	91.83			183.7					
					1078.2				
1980	102.36			204.7					
					1282.9				
1982	113.24			226.5					
					1509.4				
1984	125.22			250.4					
					1759.8				
1986	135.01			270.0					
					2029.8				

STATE	PROJECT		Watershed
Arizona	Buckhorn-Mesa		
BY	DATE	CHECKED BY	DATE
R. Stone	10-9-74	J. Krakenbuhl	10/18/74

SUBJECT: SITE DATA - Stage-Area-Storage Volume Computations Site No 7

REFERENCE MATERIAL

Elev. (Ft)	Area (Ac)	Average Area (Ac)	Diff. in Elev. (Ft)	Storage Volume (Ac-Ft)	Σ Volume (Ac-Ft)	Volume Above Sediment Pool (Ac-Ft)	Increment of Proration (Ac-Ft)	Available Storage Volume (Ac-Ft)	Available Storage Volume (In)
1986	135.01			270.0					
					2039.8				
1988	145.43			290.9					
					2320.7				
1990	157.58			315.2					
					2635.9				
1992	169.45			338.9					
					2974.8				
1994	180.58			361.2					
					3336.0				
1996	195.89			391.7					
					3727.7				
1998	216.01			432.0					
					4159.7				
2000	222.14			221.1	4382.8				

Arizona — Buckhorn-Mesa Watershed

R. Stone 10-9-74 — J. Krakenbuhl 10/18/74

Sit Data - Stage Area - Total Area Including Adjustment Sit 1167

Left side (east side) of dam is moved downstream of original alignment to go up ridge

Elev	Area		
	Original Alignment	Added	Total
Ft	Ac	Ac	Ac
1939.6	0	0	0
1940	0.02	0	0.02
42	0.04	0	0.04
44	0.14	0	0.14
46	0.30	0	0.30
48	0.64	0	0.64
1950	1.97	0	1.97
52	2.34	0	2.34
54	3.72	0.02	3.74
56	6.92	0.40	7.32
58	10.38	0.84	11.22
1960	14.76	1.32	16.08
62	20.80	1.80	22.60
64	27.23	3.17	30.40
66	33.20	3.54	36.74
68	39.89	3.84	43.73
1970	47.05	4.12	51.17
72	57.50	4.55	62.05
74	68.42	4.79	73.21
76	78.62	4.93	83.55
78	86.79	5.04	91.83
1980	97.18	5.18	102.36
82	107.86	5.38	113.24
84	119.28	5.94	125.22
86	128.11	6.90	135.01
88	137.40	8.03	145.43
1990	148.87	8.71	157.58
92	160.39	9.06	169.45
94	171.31	9.27	180.58
96	186.54	9.30	195.84
98	206.62	9.39	216.01
2000	213.68	9.46	223.14

COMPUTATION SHEET

U.S. DEPARTMENT OF AGRICULTURE
Soil Conservation Service

STATE	PROJECT		Watershed
Arizona	Buckhorn-Mesa		
BY	DATE	CHECKED BY	DATE
J. Krahenbuhl	10-9-74	J. Krahenbuhl	10/9/74

SUBJECT Site Data Area Measurement Stage Area - Adjustment

Site Name Weekes Wash Site No. 7

PERTINENT DATA: Planimetered From

Planimeter Number: Map Scale:

Planimeter Constant: 1 sq. in. = 0.9183 Ac.; Sq.

Reference Material: Blueprint of entire site area
Left side (east side) of dam wing is moved downstream of original alignment to go up ridge

~~Area or~~ Elevation Planimetered	Planimeter Readings				Area-Planimeter Units			Mean Area	Area (Ac
	Initial	First Run	Second Run	Third Run	A_1	A_2	A_3		
1954	08.35	08.37	08.39		.02	.02		.02	.02
1956	07.31	07.76	08.18		.45	.42		.44	.40
1958	8.18	09.09	10.01		.91	.92		.92	.94
1960	10.01	11.46	12.87		1.45	1.42		1.44	1.32
1962	12.87	14.83	16.78		1.96	1.95		1.96	1.80
1964	12.82	16.29	19.72		3.47	3.43		3.45	3.17
1966	19.72	23.56	27.42		3.84	3.86		3.85	354
1968	27.42	31.59	35.78		4.17	4.19		4.18	384
1970	35.78	40.29	44.75		4.51	4.46		4.49	4.12
1972	44.75	49.70	54.65		4.95	4.95		4.95	4.55
1974	59.75	64.98	70.18		5.23	5.20		5.22	4.79
1976	70.18	75.55	80.91		5.37	5.36		5.37	4.93
1978	80.91	86.43	91.89		5.52	5.46		5.49	5.04
1980	91.89	97.50	103.17		5.61	5.67		5.64	5.18
1982	03.17	09.02	14.89		5.85	5.87		5.86	5.38

COMPUTATION SHEET

U.S. DEPARTMENT OF AGRICULTURE
Soil Conservation Service

STATE	PROJECT		Watershed
Arizona	Buckhorn-Mesa		
BY	DATE	CHECKED BY	DATE
J. Krahenbuhl	10-9-74	J. Krahenbuhl	10/9/74

SUBJECT Site Data Area Measurement Stage-Area Adjustment

Site Name Weeks Wash Site No. 7

PERTINENT DATA: Planimetered From _____

Planimeter Number: _____ Map Scale: _____

Planimeter Constant: _____ 1 sq. in. = 0.9183 Ac.; _____ Sq. _____

Reference Material: Blueprint of entire site area
Left side (east side) of dam wing is moved downstream of original alignment to ridge

Area or Elevation Planimetered	Planimeter Readings				Area-Planimeter Units			Mean Area	Area (Ac)
	Initial	First Run	Second Run	Third Run	A_1	A_2	A_3		
1084	14.89	21.34	27.83		6.45	6.49		6.47	5.94
1986	27.83	35.31	42.85		7.48	7.54		7.51	6.90
1988	51.65	60.37	69.13		8.72	8.76		8.74	8.03
1990	69.13	78.58	88.09		9.45	9.51		9.48	8.71
1992	88.09	97.94	107.83		9.85	9.89		9.87	9.06
1994	07.83	17.94	28.01		10.11	10.07		10.09	9.27
1996	28.01	38.16	48.27		10.15	10.11		10.13	9.30
1998	48.27	58.47	68.71		10.20	10.24		10.22	9.39
2000	68.71	78.99	89.31		10.28	10.32		10.30	9.46

STATE Arizona	PROJECT Buckhorn-Mesa		Watershed
BY J. Rickenbaker	DATE 10-4-74	CHECKED BY K. Zahaler	DATE 10/7/74

SUBJECT Site Data Area Measurement Stage-Area

Site Name Markes Wash Site No. 7

PERTINENT DATA: Planimetered From

Planimeter Number: 632167 Map Scale: 1"=200'

Planimeter Constant: 1 1 sq. in. = 0.9183 Ac.; Sq.

Reference Material: Blueprint of entire site area

Area on this page was calculated by multiplying 0.9183 x mean area ie (.02)(.9183)=.02ac

Area or Elevation Planimetered	Planimeter Readings				Area-Planimeter Units			Mean Area	Area (Ac)
	Initial	First Run	Second Run	Third Run	A_1	A_2	A_3		
1940	86.02	86.04	86.06		.02	.02		.02	.02
1942	86.08	86.12	86.16		.04	.04		.04	.04
1944	93.10	93.25	93.40		.15	.15		.15	.14
1946	12.88	13.21	13.54		.33	.33		.33	.30
1948	00.00	00.59	01.18		.59	.59		~~.59~~ .64	~~.54~~
1950	00.00	2.13	4.28		2.13	2.15		2.14	1.97
1952	00.00	2.55	5.12		2.55	2.57		~~2.56~~	~~2.35~~ 2.24
1954	00.00	4.04	8.10		4.04	4.06		4.05	3.72
1956	00.00	7.52	15.08		7.52	7.56		7.54	6.92
1958	00.00	11.28	22.60		11.28	11.32		11.30	10.38
1960	00.00	16.23	32.48		16.23	16.25		~~16.24~~	~~14.91~~ 14.76
1962	00.00	22.63	45.30		22.63	22.67		22.65	20.80
1964	00.00	29.62	59.30		29.62	29.68		29.65	27.23
1966	00.00	36.09	72.30		36.09	36.21		36.15	33.20
1968	45.17	89.15	132.95		43.98	43.80		~~43.89~~	~~40.30~~ 37.84

1 Area (Ac) averages in Check areas

COMPUTATION SHEET

U.S. DEPARTMENT OF AGRICULTURE
Soil Conservation Service

STATE	PROJECT		Watershed
Arizona	Buckhorn-Mesa		
BY	DATE	CHECKED BY	DATE
J. Kistenbrock	10-7-74	K. Zahnter	10/7/74

SUBJECT Site Data Area Measurement Stage-Area

Site Name Ulrikes Wash Site No. 7

PERTINENT DATA: Planimetered From

Planimeter Number: ~~ST~~ #71177 Map Scale: 1" = 200'

Planimeter Constant: _____ 1 sq. in. = 3.2899 [2] Ac.; _____ Sq. _____

Reference Material: Blueprint of entire site area

[2] Area on this page was calculated by planimetering a 2.5in square which equals 1.7445 rev. 1.7445 rev/2.5in x 2.5in = .27912 rev/in² 9162.74 ft²/.27912 rev/in² = 3.2899

Area or Elevation Planimetered	Planimeter Readings				Area-Planimeter Units			Mean Area	Area (Ac.)
	Initial	First Run	Second Run	Third Run	A_1	A_2	A_3		
1970	61.135	75.431	89.736		14296	14.305		14.300	47.05
1972	89.737	107.270	124.725		17533	17.455		17.479 ~~17.494~~	57.50 ~~57.54~~
1974	19.545	40.328	61.137		20683	20.809		20.796	68 42
1976	24.725	48.628	72.519		23.903	23.891		23.897	78.62
1978	66.782	93.070	119.544		26288	26.474		26.381	86.79
1980	72.519	102.020	131.530		29.501	29.510		29.539 ~~29.505~~	97.18 ~~97.05~~
1982	01.212	33.863	66.782		32.651	32.919		32.785	107.86
1984	31.530	67.714	103.902		36.174	36.188		36.259 ~~36.186~~	119.28 ~~119.03~~
1986	23.333	62.264	101.211		38.931	38.947		38.939	128.11
1988	03.902	45.665	87.431		41.763	41.766		41.764	137.40
1990	32.829	78.012	123.331		45.183	45.319		45.251	148.87
1992	45.832	94.660	143.523		48.828	48833		48.752 ~~48.795~~	160.39 ~~160.65~~
1994	04.569	56.082	108.713		51.513	52.631		52.072	171.31
1996	0	56.695	113.401		56.695	56.706		56.700	186.54
1998	76.603	139.699	202.240		63.086	62.521		62.803	206.62

[1] Area(Ac) averages in Chat acres.

STATE	PROJECT		Watershed
Arizona	Buckhorn - Mesa		
BY J. Rickenbach	DATE 10-7-74	CHECKED BY K. Zahnter	DATE 10/7/74

SUBJECT Site Data Area Measurement Stage - Area

Site Name Weekes Wash Site No. 7

PERTINENT DATA: Planimetered From _____

Planimeter Number: OTT # 71177 Map Scale: 1" = 200'

Planimeter Constant: _____ 1 sq. in. = 3.2099 Ac.; _____ Sq. _____

Reference Material: _____

Area or Elevation Planimetered	Planimeter Readings				Area-Planimeter Units			Mean Area	Area (Ac
	Initial	First Run	Second Run	Third Run	A_1	A_2	A_3		
2000	43.997	109.139	173.978	238.918	65.142	64.839	64.940	64.951 64.974	213.68 213.7

H Mean area includes "check" main area

STATE Arizona | PROJECT Buckhorn-Mesa | Watershed

BY J. Krakenbuhl | DATE 10/7/74 | CHECKED BY K. Zahnter | DATE 10/7/74

SUBJECT Site Data Area Measurement Stage-Area

Site Name Weekes Wash Site No. 7

PERTINENT DATA: Planimetered From — Check on planimetering

Planimeter Number: OTT 71177 Map Scale: 1"=200

Planimeter Constant: _____ 1 sq. in. = 3.2899 Ac.; _____ Sq.

Reference Material: Blueprint of extra site area

Area or Elevation Planimetered	Planimeter Readings				Area-Planimeter Units			Mean Area	Area (Ac
	Initial	First Run	Second Run	Third Run	A_1	A_2	A_3		
2000	73.424	39.730	104.158		~~66.306~~	64.928		~~64.928~~ 65.617	213.61
1992	69.440	18.130	166.758		[illegible]	48.628		48.659	160.08
1984	66.595	[illegible]	[illegible]		[illegible]	[illegible]		36.328	119.52
1980	39.195	68.756	98.341		29.561	29.585		29.573	97.29
1972	10.008	27.425	44.930		17.417	17.505		17.461	57.44
1968	44.860	56.773	68.797		11.913	12.024		11.998	39.47
1960	67.937	72.352	76.817		4.415	4.465		4.440	14.61
1952	77.261	77.907	78.620		.646	.713		.709	2.33
1948	78.610	[illegible]	[illegible]		.218	.231		.224	.74

Note:

The attached stage-storage and stage-discharge data was taken from note book (Moroon Binder) entitled: "Powerline Dam, Hydrology and Hydraulics and Structure Design" as used in supplemental work plan revision February 1967.

Arizona Powerline Dam

PH 12-31-69

Flood Routing Results & elevations

	1% drawdown tim. 10 day	30 day
Principal Spillway Crest Elevation - - - - - =	1566.2	1566.2
Emergency Spillway Crest Elevation - - - - =	1581.1	1582.2
Sediment Volume Ac. feet - - - - - - =	175	175
Watersurface after 10 days drawdown El. - - =	1566.2	1580.8
Max. W.S. after routing Emery. spwy. Hyd. El. =		1583.9
Max. W.S. after routing Fbd. Hyd. - - - El. =	1584.7	1587.0
Flood water retarding volume, Ac. feet - - =	3,600	4020
Max. Principal Spwy. release rate - - - - =	390	165

For Revised Location 3-30-65 30 day Re

Crest Principal Spillway	1568.2
Crest Emg Spillway	1583.3
Max W.S. Freeboard Hyd	1588.1
Max W.S. Emg Sp. Hyd.	1585.0
Flood water retarding Vol	4020 A.

The above Airsum was caused by moving the dam upstream 200 ft to clear proposed central Arizona aquaduct. Checking the new depth capacity curve both were almost identical except the revised location was 1.1 ft higher. Emergency spillway would be the same. Therefore we checked all elevations 1.1 ft for the new location

Pruett

Arizona — Powerline Dam

PMW 12-2-64

Emergency Spillway Rating Curve

14

downstream slope = 0.00689

$b = 600'$ $ss = 3:1$ $n = 0.030$

assume $(r = d)$ [Use Table 90, King's]

d	nV^4	V	$Q/b = q$	d_c	hv
0.5	0.0777	2.59	1.30	0.37	0.10
1.0	0.1234	4.11	4.11	0.70	0.26
1.5	0.1617	5.39	8.08	1.28	0.45
2.0	0.1959	6.53	13.06	1.75	0.66
3.0	0.2567	8.55	25.65	2.73	1.13
4.0	0.3110	10.37	41.48	3.78	1.67
5.0	0.3603	12.03	60.15	4.82	2.25

Em. Spiwy. El. 1581.1

d	Q/b	$\frac{q^2}{2g}$	d + hv	Sta.	Remaining V	Remaining hv	Total d	Elev. Bott.	Pool Elev.
0.5	1.30	0.0262	3.33	4+00	0.39	0	3.33	1578.9	1582.23
1.0	4.11	0.2623	4.35	4+00	0.94	0.01	4.36	1578.9	1583.26
1.5	8.08	1.0138	5.14	4+00	1.57	0.04	5.16	1578.9	1584.08
2.0	13.06	2.65	6.06	4+00	2.15	0.07	6.13	1578.9	1585.03
3.0	25.65	10.21	7.89	4+00	3.25	0.16	8.05	1578.9	1586.95
4.0	41.48	26.71	9.76	4+00	4.25	0.28	10.04	1578.9	1588.94
5.0	60.15	56.13							

Rating Curve for Emergency Spillway

10-Day Release (Em Spwy El. 1581.1)

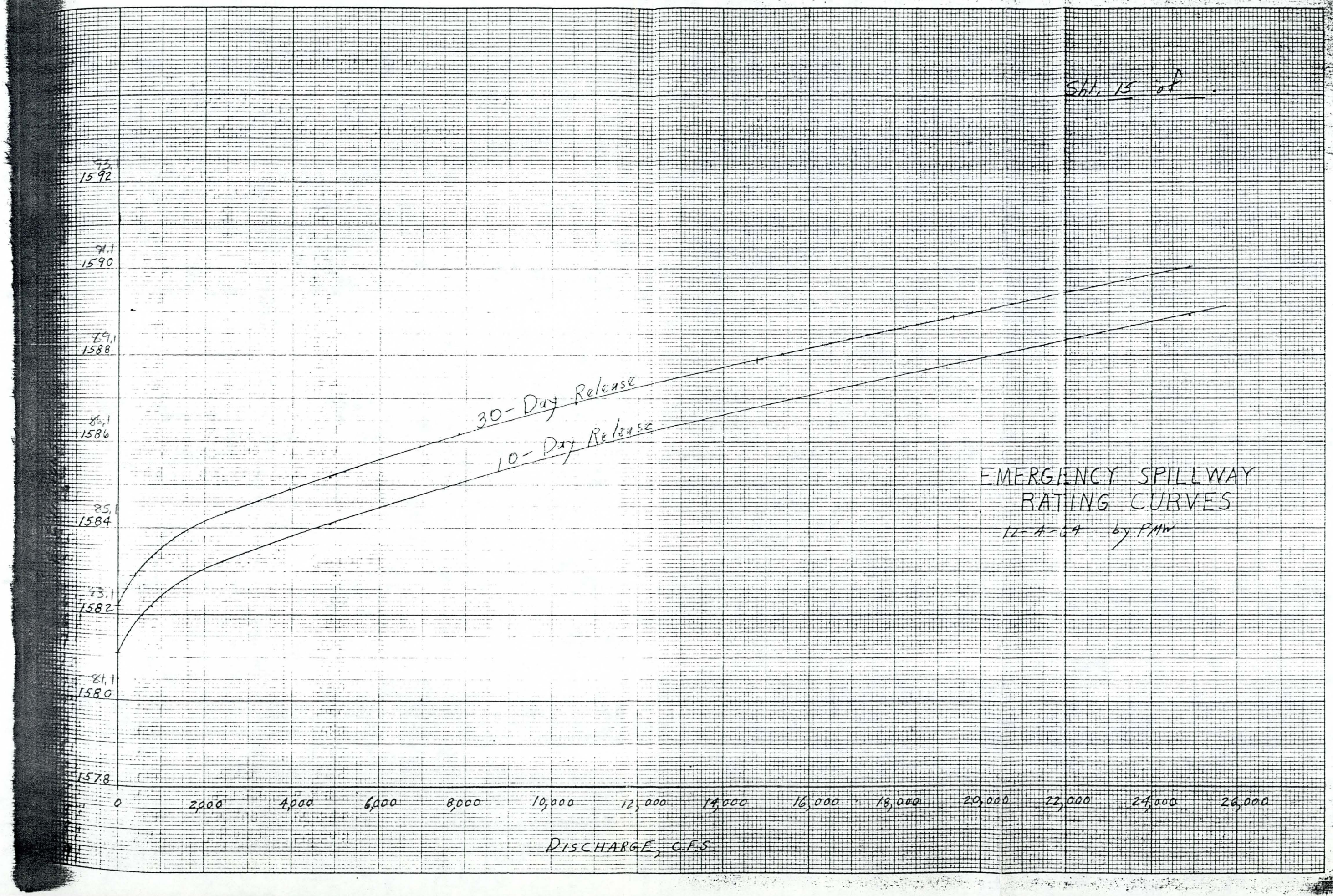
Elevation	Q
1582.23	780
83.26	2,466
84.03	4,848
85.03	7,836
86.95	15,390
88.94	24,888

30-Day Release (Em. Spiwy. El. 1582.2 1583.3)

Elevation	Q
1584.43	
1583.33	780
84.46	
84.36	2,466
85.28	
85.18	4,848
86.23	
86.13	7,836
89.15	
88.05	15,390
91.14	
90.04	24,888

Add up 1.1 feet to see for shifting of Dam d/s. See Wolf's note

Sht. 15 of .



EMERGENCY SPILLWAY
RATING CURVES
12-4-64 by PHW

Arizona — Powerline Dam

12-7-64

Combined Depth-Discharge Curves — Emergency and Principal Spillways

17

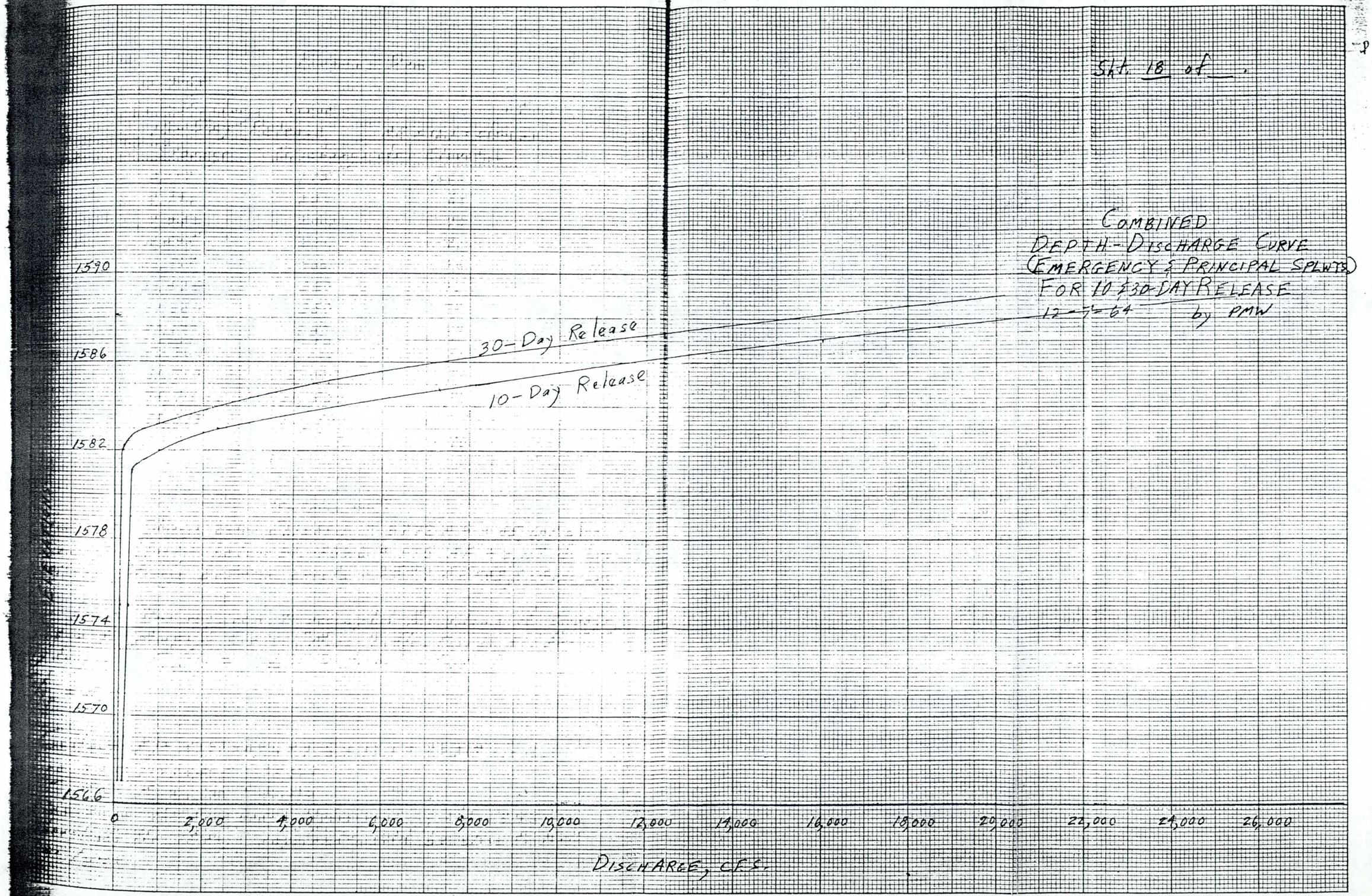
10-day Release

Elev.	Pr. Splwy. Q	Em. Splwy. Q	Combined Q
67 68.1	181	—	181
69 70.1	222	—	222
71 72.1	257	—	257
73 74.1	283	—	283
75 76.1	314	—	314
77 78.1	339	—	339
79 80.1	363	—	363
81 82.1	384	—	384
83 84.1	405	1,900	2,305
85 86.1	425	7,700	8,125
87 88.1	444	15,600	16,044
89 90.1	463	25,100	25,563
91 92.1			

30-day Release

Elev.	Pr. Splwy. Q	Em. Splwy. Q	Combinid Q
15 67 68.1	75	—	75
69 70.1	92	—	92
71 72.1	106	—	106
73 74.1	119		119
75 76.1	130		130
77 78.1	141	—	141
79 80.1	150	—	150
81 82.1	159	—	159
83 84.1	168	500	668
85 86.1	176	4,250	4,426
87 88.1	184	10,900	11,084
89 90.1	192	19,900	20,092
91 92.1			

COMBINED
DEPTH-DISCHARGE CURVE
(EMERGENCY & PRINCIPAL SPLWYS)
FOR 10 & 30-DAY RELEASE
12-7-64 by PMW



Arizona Powerline Dam

PMW 12-1-64

Principal Spillway Depth-Discharge Curve Computations 7

The Principal Spillway Discharge is directly proportional to the square root of the head on the pipe. That is,

$$Q = K H^{1/2}$$

The 1% storm results in an emergency spillway crest elevation of. (Refer to Depth-Capacity curve and Volume-Duration Curve):

10-day release = Em. Splwy. El. 1581.1

30-day release = Em. Splwy. El. 1582.2

The Principal Spillway release rates are:

Q, 10-day release = 386 cfs

Q, 30-day release = 165 cfs

The Corresponding Discharge Curves are:

10-day release, $Q = 386$ cfs

$H = 81.1 - 63 = 18.1$ ft.

$$K = \frac{386}{\sqrt{18.1}} = 90.7$$

$$\therefore \underline{Q = 90.7 H^{1/2}} \quad (10\text{-day})$$

30-day release, $Q = 165$ cfs

$H = 19.2$ ft.

$$K = \frac{165}{\sqrt{19.2}} = 37.6$$

$$\therefore \underline{Q = 37.6 H^{1/2}} \quad (30\text{-day})$$

This is close enough for routing the 6-hr storm thru the emergency spillway

ELEVATIONS Ft.

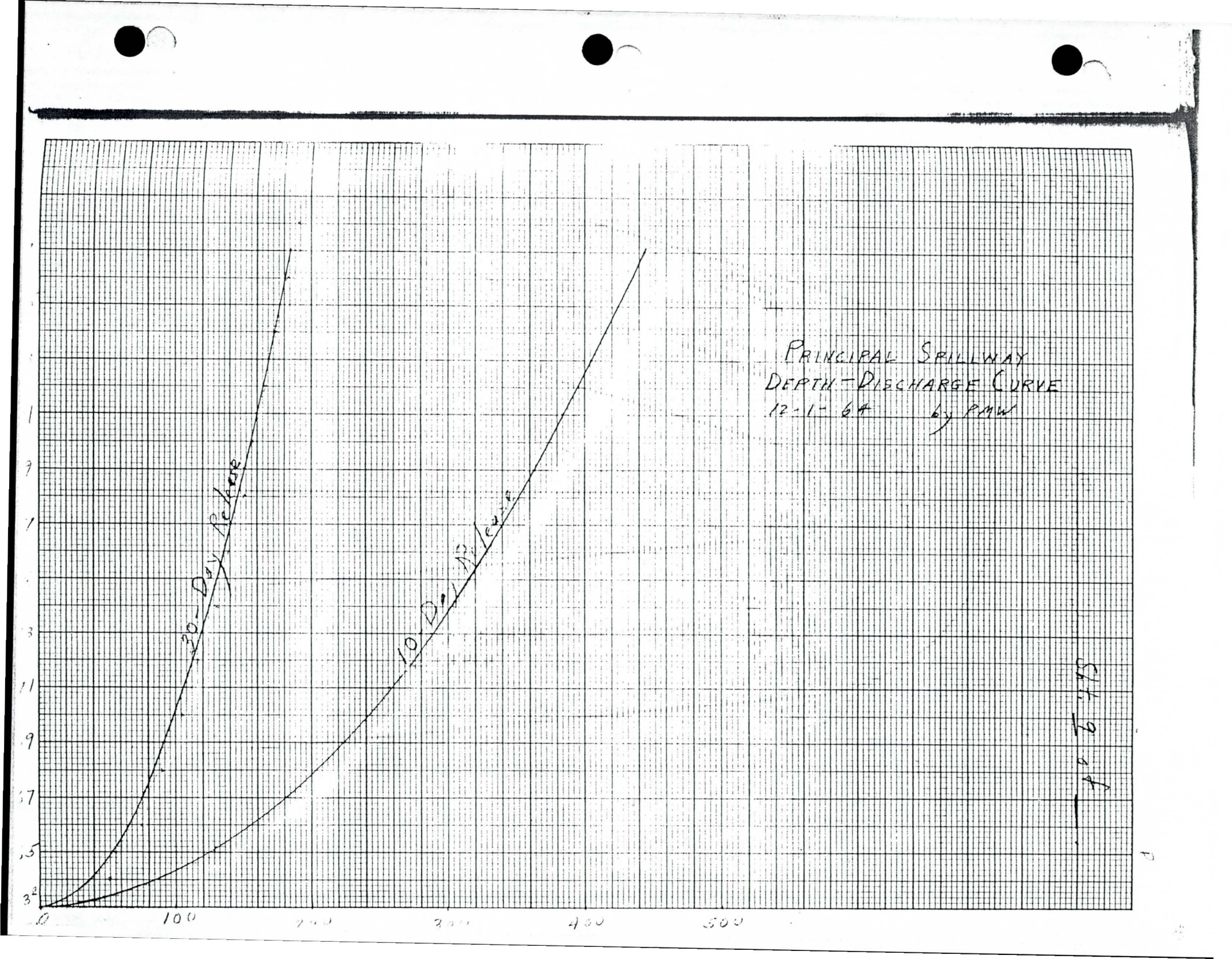
Arizona Powerline Dam

pmw 12-1-64

Principal Spillway Depth-Discharge Curve 8

Elev. top of pr. splwy. conduit = 1563'

10-day release $Q = 90.7\ H^{1/2}$				30-day release $Q = 37.6\ H^{1/2}$			
H	$H^{1/2}$	Q	Elev.	H	$H^{1/2}$	Q	Elev.
2	1.41	128	1565	2	1.41	53	1565
4	2.0	181	67	4	2.0	75	67
6	2.45	222	69	6	2.45	92	69
8	2.83	257	71	8	2.83	106	71
10	3.16	287	73	10	3.16	119	73
12	3.46	314	75	12	3.46	130	75
14	3.74	339	77	14	3.74	141	77
16	4.0	363	79	16	4.0	150	79
18	4.24	384	81	18	4.24	159	81
20	4.47	405	83	20	4.47	168	83
22	4.69	425	1585	22	4.69	176	1585
24	4.90	444	87	24	4.90	184	87
26	5.10	463	89	26	5.10	192	89


PRINCIPAL SPILLWAY
DEPTH - DISCHARGE CURVE
12-1-64 by PMW
30-Day Release
10-Day Release
100
400
500

SCS-344a 5-57
Tabular Computations

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

P

Power Line Dam & Floodway
Depth - Capacity Calculations
Planimetered with large planimeter P.M.W. 3-9-65

1. Elev.	2. Planimeter Area	3. (2) x 10.71 = Area in Ac.	4. Average end Area	5. Ac. Ft. (4) x diff. in Elev.	6. Acc. Ac. Ft.			
1564°	0	0						
1566°	3.68	39.44	19.72	39.44	39.44			
1568.2	8.28	88.68	64.06	140.93	180.37			
1570°	12.05	129.08	~~84.26~~	~~337.04~~	~~376.48~~			
			108.88	195.98	376.48			
1574°	20.67	221.40	175.24	700.96	1,077.44			
1578°	29.48	315.76	268.58	1,074.32	2,151.76			
1582°	39.25	420.40	368.08	1,472.32	3,624.08			
1583.3	42.50	456.25	438.33	569.83	4,193.91			
1586°	49.55	~~530.71~~	~~475.55~~	~~1,902.20~~	~~5,526.28~~			
			493.48	1,332.90	5,526.28			
1590°	58.72	628.92	579.81	2,319.24	7,845.52			

Arizona Powerline Dam
Watt 3-30-65

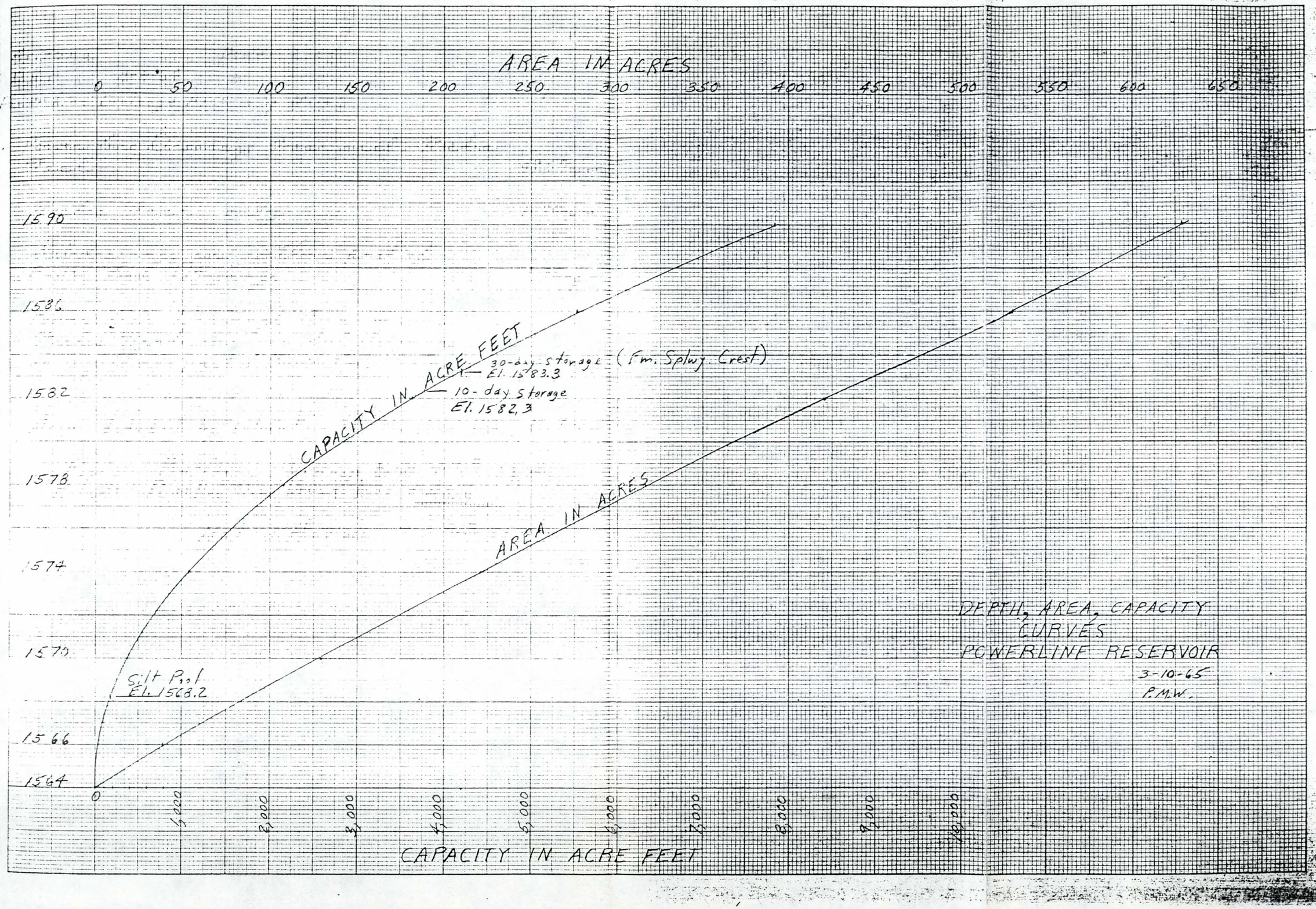
Comparison of Depth Capacity Curve of Original & Revised Location

Capacity	Orig Elev	Revised Elev	Diff in WS Elev
1000	72.3	73.6	1.3
2000	76.2	77.5	1.3
3000	79.2	80.4	1.2
4000	81.7	82.8	1.1
5000	83.8	84.9	1.1
6000	85.7	86.8	1.1
8000	89.1	90.2	1.1

Elev for 4021 flood storage & 175 Ac Ft silt storage

Revised Location = 1583.3 = Crest Emg Sp
Original = 1582.2 = " " "
Diff = 1.1

Because the depth capacity curves so closely parrallel each other we will use the same size & depth of emergency spillway as determined in the original flood Routing Freeboard Hydrograph is routed from storage starting at 3667 above which storage curves are parralle/



DEPTH, AREA, CAPACITY
CURVES
POWERLINE RESERVOIR
3-10-65
P.M.W.

E624,000
E624,500
E625,000
E625,500
E626,000
E626,500
E627,000
E629,000
E630,000
U.S. BUREAU OF LAND MANAGEMENT
U.S. BUREAU OF LAND MANAGEMENT
U.S. BUREAU OF RECLAMATION
U.S. BUREAU OF LAND MANAGEMENT
PATENTED LAND
UNPATENTED MINING CLAIM AREA
U.S. BUREAU OF RECLAMATION
UNPATENTED MINING CLAIM AREA
HY-ELEC
END DAM STA 65+00
℄ PRINCIPAL SPILLWAY
CURVE DATA
Δ=60°58'00"
D=25°56'36.2'
R=220.85'
T=130.00'
L=235.00'
CURVE DATA
Δ=67°30'00"
D=28°40'40"
R=198.75'
T=132.30'
L=234.15'
NOTE: Property lines shown hereon are approximate and are not to be considered as legal boundaries. The listed ownership may not necessarily be the current owner of record. In addition, the construction area is not shown. The project engineer will outline this area after final design.
Land rights within the contour line of the design storm must be obtained and it is recommended that they be obtained within the contour line of the top of the dam.
N892,500
MAP SCALE 1" = 200'
200 0 200 400'
CONTOUR INTERVAL 2'
N892,000
N893,000
CURVE DATA
Δ=46°00'00"
D=12°09'37.3"
R=471.17'
T=200.00'
L=278.28'
CURVE DATA
Δ=35°28'00"
D=9°09'39.6"
R=625.43'
T=200.00'
L=387.15'
STATE LAND
LEGEND
0-99 ℄ FRS
100-199 Borrow area
200-299 Emergency Spillway
300-399 Principal Spillway
1326.08'
BUCKHORN-MESA WATERSHED
SITE NO. 7 WEEKES WASH
PLAN OF DAMSITE AND STORAGE AREA
MARICOPA AND PINAL COUNTY
ARIZONA
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Designed R. STONE Date 10/74
Drawn J. KRAHENBUHL 10/74
Traced
Checked R. SLOCUM 10/74
Approved by
Title
Title
Sheet No. of
Drawing No.
D.A.

WEEK WASH - POWERLINE DAMS
TR-20 ANALYSIS AND RESULTS.

9/30/85
HMM

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	PRIN. SPY HYD			EMER SPY HYD (6-HMM)			FREEBOARD HYD (6-HMM)			FREEBOARD HYD (24-HMM)		
LOCATION	ALT #1 DA=37.59	ALT #2 DA=46.33	ALT #3 DA=46.33	ALT #1 DA=37.59	ALT #2 DA=46.33	ALT #3 DA=46.33	ALT #1 DA=37.59	ALT #2 DA=46.33	ALT #3 DA=46.33	ALT #1 DA=37.59	ALT #2 DA=46.33	ALT #3 DA=46.33
	Powerline Uncml Area (CFS)/(Elev) (STORM #1)	Total Area W/W. Wash (CFS)/(Elev) (STORM #1)	Total Area W/O W. Wash (CFS)/(Elev) (STORM #1)	Powerline Uncml Area (CFS)/(Elev) (STORM #2)	Total Area W/W. Wash (CFS)/(Elev) (STORM #4)	Total Area W/O W. Wash (CFS)/(Elev) (STORM #4)	Powerline Uncml Area (CFS)/(Elev) (STORM #3)	Total Area W/W. Wash (CFS)/(Elev) (STORM #5)	Total Area W/O W. Wash (CFS)/(Elev) (STORM #5)	Powerline Uncml Area (CFS)/(Elev) (STORM #7)	Total Area W/W. Wash (CFS)/(Elev) (STORM #9)	Total Area W/O W. Wash (CFS)/(Elev) (STORM #9)
INFLOW STR #7 W. WASH DAM	—	1988	1988	—	10,976	10,796	—	26,795	26,795	—	9404	9464
OUTFLW STR #7 W. WASH DAM	— —	103 1976.58	1988 —	— —	935 1983.08	10,796 —	— —	8307 1988.92	26,795 —		5787 1987.73	9404 —
Inflow Str #1: Powerline Dam	6578	6661	8191	25,212	24,397	33,478	62,807	60,084	81,453	34,834	34,889	43,311
Outflow Str #1 Powerline Dam	149 1579.92	157 1581.38	159 1582.19	3311 1585.51	3357 1585.53	6385 1586.69	26,368 1591.49	28679 1592.01	34,958 1593.40	20,050 1590.09	22750 1590.69	26967 1591.63
	(14)	(15)	(16)									
	100-YEAR, 24-HOUR TYPE II											
	ALT #1	ALT #2	ALT #3									
INFLOW STR #7 W. WASH DAM	—	6432	6432				NOTE: POWERLINE DAM					
							1. Crest of Emer Spy = 1582.3					
							2. TOP of Dam = 1589.1					
OUTFLOW STR #7 W. WASH DAM	— —	132 1979.92	6432 —									
INFLOW STR #1 POWERLINE DAM	13,403	13,371	18,279									
OUTFLOW STR #1 POWERLINE DAM	160 1582.26	161 1582.3	588 1583.97									

(DES/TR20.WWPL)

TR - 20
JOB & TITLE

SCS-ENG.-264 DRAFT
REV. May 1982

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Watershed WEEKS WASH & POWERLINE DAMS Hydrologist Hem Date 9/17/85 SHEET ____ OF ____

1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80
1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0
	HOLDOUT	ECON	FULLPRINT	PASS=XXX	SUMMARY	ENDPLOT	RECORD ID
JOB TR-20			FULLPRINT		SUMMARY		1
TITLE	WEEKS WASH-POWERLINE DAM ANALYSES, SEPT 1985						2
TITLE							

USE CONVEX ROUTING METHOD
CHECK PROGRAM = SCSCKT20 @ WCC
HQ = TR20CKT

JOB Record (required)

Columns 1-3	JOB
Columns 5-9	TR-20
Columns 11-17	HOLDOUT Use only if a holdout hydrograph is desired.
Columns 21-24	ECON Use only if peak discharge output for ECON2/URB1 is desired. Locations for this output must be selected for inclusion in Summary Tables 1 and 3 also. Such designation can be made using summary option explained below (columns 51-57) or on Standard Control (column 71).
Columns 31-39	FULLPRINT Use only if FULLPRINT option is desired.
Columns 41-48	PASS=XXX Use only if PASS number, XXX, is greater than 1. XXX is an integer, right justified.
Columns 51-57	SUMMARY Use only if Summary Tables 1 and 3 are to include all Standard Control operations (except SAVMOV).
Columns 61-67	NOPLOTS Use if no cross section rating plots are desired. Default - PLOTS ENDPLOT Use if only cross section rating plots are desired with no routings.
Columns 73-80	Optional user information, printed at top of input listing.

TITLE Records (one required, second is optional)

Columns 1-5	TITLE
Columns 7-9	XXX (first TITLE record only). An optional user file number, XXX, is an integer, right justified.
Columns 11-80	Both titles may be any characters desired.

SCS-269
5-64

STRUCTURE DATA

Structure No. 01

Watershed Apache Jct. - Gilbert Hydrologist [illegible] Date 9/17/85

Powerline Dam

30-Day Release

DATA CODE	TABLE NAME	STRUCTURE NO. (01-60)	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	CARD NO./ IDENTIFICATION
3	STRUCT	01				3

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields

	ELEVATION, FT.	DISCHARGE, CFS	STORAGE, ACRE FT.	
8	1568.2	0.0	175.	4
8	1570.1	92.	380.	5
8	1572.1	106.	700.	6
8	1574.1	119.	1100.	7
8	1576.1	130.	1600.	8
8	1578.1	141.	2175.	9
8	1580.1	150.	2875.	10
8	1582.1	159.	3675.	11
8	1583.3	165	4200.	12
8	1584.1	668	4600.	13
8	1586.1	4426	5525.	14
8	1588.1	11084.	6725.	15
8	1590.1	20092.	7925.	16
8				
8				
8				
8				
8				
8				
8				

9	ENDTBL	NOTE: This card must be the last card for each structure.	17

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN. 20, 1964

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STRUCTURE DATA

(~~DES/TR20. WWSK~~)

Watershed: Buckhorn Mesa & Powerline Dams / Weeks Wash Structure No. 7 Hydrologist [illegible] Date ~~12/14/83~~ 9/20/85

DATA CODE	TABLE NAME	STRUCTURE NO. (01-60)	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	CARD NO. / IDENTIFICATION
3	STRUCT	07				18

IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields

DATA CODE	ELEVATION, FT.	DISCHARGE, CFS	STORAGE, ACRE FT.	CARD NO. / IDENTIFICATION
8	1967.0	0.0	0.0	19
8	1967.5	16.	16.2	20
8	1968.0	46.	32.5	21
8	1968.5	87.	49.7	22
8	1969.0	88.	65.0	23
8	1970.5	91.	127.3	24
8	1972.1	94.	212.9	25
8	1975.2	100.	421.9	26
8	1976.7	103.	545.9	27
8	1977.8	105.	641.5	28
8	1978.3	106.	686.7	29
8	1978.8	106.	[illegible]	30
8	1979.3	107.	[illegible]	31
8	1979.8	108	830.1	32
8	1984.5	1293.	1351.7	33
8	1987.6	5512.	1774.1	34
8	1990.7	12053.	2245.6	35
8	1996.7	31953.	3357.8	36
8	2000.0	45388.	4027.1	37
8				

DATA CODE	TABLE NAME		CARD NO. / IDENTIFICATION
9	ENDTBL	NOTE: This card must be the last card for each structure.	38

DA = 37.59 mi²
Q_1 = 1,28" Q_{10} = 2.00"

CUMULATIVE RAINFALL TABLE, NORMALIZED OR ACTUAL

SCS-271
5-E4

Watershed WW-PL Dams Hydrologist Hm Date 9/24/85

DATA GROUP	TABLE ID NAME	TABLE ID NO.	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	DATA FIELD #4	DATA FIELD #5	CARD NO. / IDENTIFICATION
			IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.					
5		TABLE NO		TIME INCREMENT				
6	RAINFL	3		2,40				38.1
			Enter successive entries left to right with first entry for time = 0. Fill last row of data with last entry of table					
8			0.0	.0021	.0041	.0062	.0082	38.2
8			.0103	.0126	.0148	.0171	.0193	38.3
8			.0216	.0241	.0266	.0292	.0317	38.4
8			.0342	.0370	.0399	.0427	.0456	38.5
8			.0484	.0517	.0549	.0582	.0614	38.6
8			.0647	.0686	.0724	.0763	.0801	38.7
8			.0840	.0888	.0936	.0984	.1032	38.8
8			.1080	.1145	.1210	.1274	.1339	38.9
8			.1404	.1509	.1613	.1718	.1822	38.10
8			.1927	.2068	.2244	.2481	.2864	38.11
8			.6960	.7549	.7840	.8041	.8198	38.12
8			.8327	.8406	.8486	.8565	.8645	38.13
8			.8724	.8779	.8834	.8889	.8944	38.14
8			.8999	.9042	.9085	.9127	.9170	38.15
8			.9213	.9248	.9284	.9319	.9355	38.16
8			.9390	.9420	.9450	.9481	.951	38.17
8			.9541	.9568	.9594	.9621	.9647	38.18
			.9674	.9698	.9722	.9745	.9769	38.19
9	END TBL		NOTE: This card must be the last card of this table.					38.22
			.9793	.9815	.9836	.9858	.9879	38.20
			.9901	.9926	.9951	.9975	1.000	38.21

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 20, 1983

TR - 20

SCS - ENG. - 271 DRAFT
REV. May 1982

CUMULATIVE RAINFALL TABLE

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

F-7

STORM TYPE OR DATE ESH & FBH (6-Hour)

Watershed WEEKS WASH - POWERline DAMS Hydrologist [illegible] Date 9/20/85 SHEET ____ OF ____

1 = CN=100 [illegible] must [illegible] & not [illegible] rainfall [illegible] Blank [illegible]

DATA CODE	TABLE I.D. NAME	NO.	DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3	DATA FIELD NO. 4	DATA FIELD NO. 5	RECORD IDENT.
		(1-9)	RUNOFF OPTION	TIME INCREMENT				
5	RAINFL	5		0.25				39
8			0.0	.0072	.0152	.0251	.0358	40
8			.0538	.0717	.0950	.1219	.4910	41
8			.6398	.7043	.7661	.8109	.8486	42
8			.8799	.9041	.9274	.9453	.9606	43
8			.9713	.9821	.9892	.9955	1.0000	44
8								
8								
8								
8								
8								
8								
8								
8								
8								
8								
9	ENDTBL		NOTE: This record must be the last record of this table.					45

IMPORTANT: Line out unused lines. Data fields require decimal points.

NOTE: A maximum of 100 entries (20 records) are allowed.

Enter successive entries left to right with first entry for time = 0. Fill last row of data with last entry of table.

TR - 20

SCS - ENG. - 271 DRAFT
REV. May 1982

CUMULATIVE RAINFALL TABLE

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

F-7

STORM TYPE OR DATE ESH / FBH (24-Hr)

Watershed Weeks Wash & Pond Line Dams Hydrologist Heer Date 7/20/85 SHEET ____ OF ____

1-10			11-20	21-30	31-40	41-50	51-60	61-70	71-80
DATA CODE	TABLE I.D. NAME	TABLE I.D. NO.	DATA FIELD NO. 1	DATA FIELD NO. 2	DATA FIELD NO. 3	DATA FIELD NO. 4	DATA FIELD NO. 5		RECORD IDENT.
		(1-9)	RUNOFF OPTION	TIME INCREMENT					
5	RAINFL	1		0.50					46
			NOTE: A maximum of 100 entries (20 records) are allowed.						
			Enter successive entries left to right with first entry for time = 0. Fill last row of data with last entry of table.						
8			0.0	.0078	.0150	.0214	.0286		47
8			.0371	.0457	.0550	.0643	.0750		48
8			.0864	.0971	.1071	.1250	.1514		49
8			.1821	.2250	.3214	.4143	.4964		50
8			.5714	.6421	.6893	.7214	.7500		51
8			.7750	.7957	.8143	.8314	.8486		52
8			.8621	.8757	.8879	.9000	.9093		53
8			.9193	.9286	.9364	.9443	.9514		54
8			.9593	.9657	.9714	.9786	.9829		55
8			.9879	.9921	.9964	1.0000	1.0000.		56
8									
8									
8									
8									
8									
9	ENDTBL		NOTE: This record must be the last record of this table.						57

1 = CN = 98 as most we normally use & not rainfall. Blank CN as default.

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.		Put "1" in space					
6	RUNOFF	1					6										
								SURF. ELEV. AT T = 0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3			7		5										
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	015				6	1.72	100.	0.30	1		1		1		58
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA		NOTE: This card to be used only at end of all standard control cards.														

SCS-ENG-273
Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	TUNE	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
					6			LENGTH FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	114		X		5	2700.	0.80								59
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	014				6	1.16	100.	0.25	1			1		1	60
6	ADDHYD	4	014		5	6	7				1			1		1	61
6	SAVMOV	5	014		7		5										63
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card to be used only at end of all standard control cards.									

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3			7		5										
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	016				6	2.24	100.	0.59	1		1		1		63
6	ADDHYD	4	114		5	6	7				1		1		1		64
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH. FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	1	3	7		5	4300.	0.80								65
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	0	3			6	1.35	100.	0.21	1		1		1		66
6	ADDHYD	4	0	3	5	6	7				1		1		1		67
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH. FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	1	2	7		5	4600.	0.80								68
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	0	2			6	1.43	100.	0.45	1			1		1	69
6	ADDHYD	4	0	2	5	6	7				1			1		1	70
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH. FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	1	1	7		5	1800.	0.80								71
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	0	1			6	0.63	100.	0.31	1		1		1		72
6	ADDHYD	4	1	1	5	6	7				1		1		1		73
6	SAVMOV	5	1	1	7		5										74
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT1	OUT-PUT2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, SEPT. 30, 1963

STANDARD CONTROL FOR WATERSHED

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3			7		5										
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	017				6	0.21	100.	0.23	1		1		1		75
6	ADDHYD	4	117		5	6	7				1	1		1		1	76
6	SAVMOV	5	117		7		6										77
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

STANDARD CONTROL FOR WATERSHED '

SCS - 273
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2		07	6		7	1967.			1	1		1		1	78
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	102		7		5	38600.	0.80		1			1		1	79
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	002				6	5.87	100.	2.02	1			1		1	80
6	ADDHYD	4	102		5	6	X 1				1	1		1		1	81
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS									
6	DIVERT	6															
	ENDATA							NOTE: This card to be used only at end of all standard control cards.									

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Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	HYD	ELEV	VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3			7		5										
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	005				6	5.52	100.	1.18	1		1		1		82
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA		NOTE: This card is to be used only at end of all standard control cards.														

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Rev. 5-73

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	NO.	X SECTION/ STRUCTURE XSECT NO.	STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	INPUT #2	OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T = 0, FT.									
6	RESVOR	2			6		7										
					6			LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	104		X		5	12500.	0.78								83
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	004				6	13.11	100.	2.17	1		1		1		84
6	ADDHYD	4	104		5	6	7				1		1		1		85
6	SAVMOV	5	104		7		5										86
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3			7		5										
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1	006				6	7.17	100.	1.80	1			1		1	87
6	ADDHYD	4	106		5	6	7				1	1		1		1	88
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1				6												
								SURF. ELEV. AT T = 0, FT.										
6	RESVOR	2			6	7												
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)									
6	REACH	3	003		7	5		4000.	0.75		1		1		1			89
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.								
6	RUNOFF	1	003			6		5.92	100.	1.41	1		1		1			90
6	ADDHYD	4	003		5	6	7				1		1		1			91
6	SAVMOV	5																
6	SAVMOV	5																
6	ADDHYD	4			5	6	7											
6	SAVMOV	5																
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID								
6	DIVERT	6																
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.										

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUT-PUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	OUTPUT OPTIONS PRINT HYD	OUTPUT OPTIONS PRINT ELEV	OUTPUT OPTIONS PRINT VOL	OUTPUT OPTIONS PUNCH	OUTPUT OPTIONS SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T=0, FT.									
6	RESVOR	2			6		7										
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3	102		7		5	5500.	0.75		1	1		1		1	12
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	SAVMOV	5	102		1		6										13
6	ADDHYD	4		01	5	6	7				1	1		1		1	14
6	SAVMOV	5															15
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									

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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

STANDARD CONTROL FOR WATERSHED

Watershed _____ Hydrologist _____ Date _____

DATA CODE	SUBROUTINE (OPERATION) NAME	SUBROUTINE (OPERATION) NO.	X SECTION/ STRUCTURE XSECT NO.	X SECTION/ STRUCTURE STRUCT. NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO./ IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.	Put "1" in space						
6	RUNOFF	1					6										
								SURF. ELEV. AT T = 0, FT.									
6	RESVOR	2		01	14		7	1562			1	1		1		1	95
								LENGTH, FT.	(OPTIONAL) ROUTING COEFFICIENT (C)								
6	REACH	3			7		5										
								AREA, SQ. MI.	RUNOFF CURVE NO.	TIME OF CONCENTRATION, HRS.							
6	RUNOFF	1					6										
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
6	SAVMOV	5															
6	ADDHYD	4			5	6	7										
6	SAVMOV	5															
					IN-PUT	OUT-PUT 1	OUT-PUT 2	OUTPUT 1 DISCHARGE, CFS	OUTPUT 1 Percent D. A. Split	OUTPUT 2 Diversion Table ID							
6	DIVERT	6															
	ENDATA							NOTE: This card is to be used only at end of all standard control cards.									96

MODIFY STANDARD CONTROL

S - 275
v. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO	XSECTN STRUCTURE XSECTN NO	XSECTN STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO. / IDENTIFICATION
								IMPORTANT. Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields									
								IMPORTANT. Modifications must be given in the order that they appear on the standard control list									
7	INSERT	2						NOTE. The following cards are inserted following the XSECTN STRUCTURE specified									
6																	
6																	
6																	
6																	
7	ALTER	3						NOTE. Data given in columns 1 to 18 must be identical with standard control card to be altered.									
6																	
6																	
6																	
6																	
7	DELETE	4						NOTE. Data given in columns 1 to 18 must be identical with standard control card to be deleted.									
6																	
6																	
6																	
6																	
7	LIST							NOTE. This card is used for printout of tabular data and standard control list that are currently effective.									97
7	UPDATE	1						NOTE. This card is used to make permanent changes on the library tape. Printout of library tape follows changes.									
									NEW BASE FLOW, CFS								
7	BASFLOS									NOTE. This card normally precedes a COMPUT card.							

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 28, 1964

EXECUTIVE CONTROL FOR WATERSHED

SCS - 274
Rev. 2-68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	CARD NO./ IDENTIFICATION
			IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.			
			MAIN TIME INCREMENT, HRS.	(This increment is required for initial computations. Remains in force until new increment is entered or permanent data changed.)		
7	INCREM	6	0.10			78
			FROM XSECTN OR STRUCT / THRU (1) XSECTN OR STRUCT	STARTING TIME, HRS.	RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall) / RAINFALL DURATION, HRS.	RAIN TABLE NO. / AMC / ALTERNATE NO. / STORM NO.
			10-Day Runoff DA=37.59 mi²			
7	COMPUT	7	002 / 01	0,0	2,00 / 1,0	3 2 01 01 79
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.			100
			10-Day Runoff DA=46.33 mi²			
7	COMPUT	7	015 / 01	0,0	2,07 / 1,0	4 2 02 01 101
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.			102
7	COMPUT	7				
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.			
7	COMPUT	7				
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.			
	ENDJOB	2	NOTE: This card terminates the entire watershed program.			

(1) Starting from the beginning or from the end of the preceding COMPUT card, the program will start with the 1st operation on the standard control list having the XSECTN / STRUCT under FROM and will perform all operations through the 1st appearance of the XSECTN / STRUCT under THRU. Two or more COMPUT cards in series will normally cover successive parts of the standard control list.

MODIFY STANDARD CONTROL

: - 275
. 2 - 68

Watershed _____ . Hydrologist _____ Date _____

TA DE	OPERATION NAME	OPERATION NO	XSECTN STRUCTURE XSECTN NO	XSECTN STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO. / IDENTIFICATION
	IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.																
	IMPORTANT: Modifications must be given in the order that they appear on the standard control list.																
7	INSERT	2						NOTE The following cards are inserted following the XSECTN STRUCTURE specified									

6-HR CN's

7	ALTER	3						NOTE Data given in columns 1 to 18 must be identical with standard control card to be altered.									103
5	RUNOFF	1	01	5			6	1.72	83.	0.30	1		1		1		104
6	RUNOFF	1	01	4			6	1.16	82.	0.25	1		1		1		105
5	RUNOFF	1	01	6			6	2.24	85.	0.59	1		1		1		106
5	RUNOFF	1	01	3			6	1.35	86.	0.21	1		1		1		107
7	DELETE	4						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be deleted.									
6																	
5																	
6																	
5																	
7	LIST							NOTE This card is used for printout of tabular data and standard control list that are currently effective.									
7	UPDATE	1						NOTE This card is used to make permanent changes of the library tape. Printout of library tape follows changes.									
								NEW BASE FLOW, CFS									
7	BASFLO	5							NOTE This card normally precedes a COMPUT card.								

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 20, 196

MODIFY STANDARD CONTROL

S - 275
v. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO	XSECTN STRUCTURE XSECTN NO	XSECTN STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO. / IDENTIFICATION
					IMPORTANT. Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.												
					IMPORTANT. Modifications must be given in the order that they appear on the standard control list.												
7	INSERT	2						NOTE: The following cards are inserted following the XSECTN STRUCTURE specified.									
6																	
6																	
6																	
6																	

6-Hrw CP's

7	ALTER	3						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be altered.									
6	RUNOFF	1	012				6	1.43	89.	0.45	1			1		1	108
6	RUNOFF	1	011				6	0.63	85.	0.31	1			1		1	109
6	RUNOFF	1	017				6	0.21	92.	0.23	1			1		1	110
6	RUNOFF	1	002				6	5.87	79.	2.02	1			1		1	111
7	DELETE	4						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be deleted.									
6																	
6																	
6																	
6																	
7	LIST							NOTE: This card is used for printout of tabular data and standard control list that are currently effective.									
7	UPDATE	1						NOTE: This card is used to make permanent changes of the library tape. Printout of library tape follows changes.									
									NEW BASE FLOW, CFS								
7	BASFLOS									NOTE: This card normally precedes a COMPUT card.							

MODIFY STANDARD CONTROL

S - 275
v. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	XSECTN STRUCTURE XSECTN NO	XSECTN STRUCTURE STRUCT NO	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT FLOW	PRINT VOL	PUNCH	SUM	CARD NO / IDENTIFICATION
					IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields												
					IMPORTANT: Modifications must be given in the order that they appear on the standard control list												
7	INSERT	2						NOTE: The following cards are inserted following the XSECTN STRUCTURE specified									
6																	
6																	
6																	
6																	
								6-Hour CN's									
7	ALTER	3						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be altered									
6	RUNOFF	1	005				6	5.52	84.	1.12	1			1		1	112
6	RUNOFF	1	004				6	13.11	84.	2.17	1			1		1	113
6	RUNOFF	1	006				6	7.17	82.	1.80	1			1		1	114
6	RUNOFF	1	003				6	5.92	81.	1.41	1			1		1	115
7	DELETE	4						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be deleted									
6																	
6																	
6																	
6																	
7	LIST							NOTE: This card is used for printout of tabular data and standard control list that are currently effective									116
7	UPDATE	1						NOTE: This card is used to make permanent changes of the library tape. Printout of library tape follows changes									
								NEW BASE FLOW, CFS									
7	BASFLOS								NOTE: This card normally precedes a COMPUT card								

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN 28, 1964

EXECUTIVE CONTROL FOR WATERSHED

SCS - 274
Rev. 2-68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	CARD NO./ IDENTIFICATION
			IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.			
			MAIN TIME INCREMENT, HRS.	(This increment is required for initial computations. Remains in force until new increment is entered or permanent data changed.)		
7	INCREM	6	0.10			117
			FROM XSECTN OR STRUCT	THRU (1) XSECTN OR STRUCT	STARTING TIME, HRS.	RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall)	RAINFALL DURATION, HRS.	RAIN TABLE NO.	AMC	ALTERNATE NO.	STORM NO.	
7	COMPUT	7	002	01	0.0	4.70 (6-HR ESH DA=37.59)	1.0	5	2	01	02	118
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.									119
7	COMPUT	7	002	01	0.0	9.05 (6HR FBH DA=37.59)	1.0	5	2	01	03	120
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.									121
7	COMPUT	7	015	01	0.0	4.59 (6-HR ESH DA=46.32)	1.0	5	2	02	04	122
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.									123
7	COMPUT	7	015	01	0.0	8.73 (6HR ESH DA=46.32)	1.0	5	2	02	05	124
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.									125
	ENDJOB	2	NOTE: This card terminates the entire watershed program.									

(1) Starting from the beginning or from the end of the preceding COMPUT card, the program will start with the 1st operation on the standard control list having the XSECTN / STRUCT under FROM and will perform all operations through the 1st appearance of the XSECTN / STRUCT under THRU. Two or more COMPUT cards in series will normally cover successive parts of the standard control list.

MODIFY STANDARD CONTROL

SCS - 275
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	XSECTN / STRUCTURE XSECTN NO.	XSECTN / STRUCTURE STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO. / IDENTIFICATION
					IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.												
					IMPORTANT: Modifications must be given in the order that they appear on the standard control list.												
7	INSERT	2						NOTE: The following cards are inserted following the XSECTN / STRUCTURE specified.									
6																	
6																	
6																	
6																	

24-Hour CN's

7	ALTER	3						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be altered.									126
6	RUNOFF	1	01	5			6	1.71	80.	0.30	1			1		1	127
6	RUNOFF	1	01	4			6	1.16	79.	0.25	1			1		1	128
6	RUNOFF	1	01	6			6	2.24	82.	0.59	1			1		1	129
6	RUNOFF	1	01	3			6	1.35	83	0.21	1			1		1	130

7	DELETE	4						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be deleted.									
6																	
6																	
6																	
6																	

7	LIST		NOTE: This card is used for printout of tabular data and standard control list that are currently effective.
7	UPDATE	1	NOTE: This card is used to make permanent changes of the library tape. Printout of library tape follows changes.
			NEW BASE FLOW, CFS
7	BASFLO	5	NOTE: This card normally precedes a COMPUT card.

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN. 20, 1964

MODIFY STANDARD CONTROL

SCS - 275
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	XSECTN / STRUCTURE XSECTN NO.	XSECTN / STRUCTURE STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO. / IDENTIFICATION
					IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.												
					IMPORTANT: Modifications must be given in the order that they appear on the standard control list.												
7	INSERT	2						NOTE: The following cards are inserted following the XSECTN / STRUCTURE specified									
6																	
6																	
6																	
6																	

24-Hour Cards

7	ALTER	3						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be altered.									
6	RUNOFF	1	012				6	1.43	86.	0.45	1			1		1	131
6	RUNOFF	1	011				6	0.63	82.	0.31	1			1		1	132
6	RUNOFF	1	017				6	0.21	79.	0.23	1			1		1	133
6	RUNOFF	1	002				6	5.87	75.	2.02	1			1		1	134
7	DELETE	4						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be deleted.									
6																	
6																	
6																	
6																	
7	LIST							NOTE: This card is used for printout of tabular data and standard control list that are currently effective.									
7	UPDATE	1						NOTE: This card is used to make permanent changes of the library tape. Printout of library tape follows changes.									
									NEW BASE FLOW, CFS								
7	BASFLOS									NOTE: This card normally precedes a COMPUT card.							

MODIFY STANDARD CONTROL

SCS - 275
Rev. 2 - 68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	XSECTN / STRUCTURE XSECTN NO.	XSECTN / STRUCTURE STRUCT NO.	HYDROGRAPH NUMBER INPUT #1	HYDROGRAPH NUMBER INPUT #2	HYDROGRAPH NUMBER OUTPUT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	OUTPUT OPTIONS PRINT PEAK	PRINT HYD	PRINT ELEV	PRINT VOL	PUNCH	SUM	CARD NO. / IDENTIFICATION
					IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.												
					IMPORTANT: Modifications must be given in the order that they appear on the standard control list.												
7	INSERT	2						NOTE: The following cards are inserted following the XSECTN / STRUCTURE specified									
6																	
6																	
6																	
6																	

24-hr CN's

7	ALTER	3						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be altered.									
6	RUNOFF	1	005				6	5.52	81.	1.18	1			1		1	135
6	RUNOFF	1	004				6	13.11	81.	2.17	1			1		1	136
6	RUNOFF	1	006				6	7.17	79.	1.80	1			1		1	137
6	RUNOFF	1	003				6	5.92	78.	1.41	1			1		1	138

7	DELETE	4						NOTE: Data given in columns 1 to 18 must be identical with standard control card to be deleted.									
6																	
6																	
6																	
6																	

7	LIST							NOTE: This card is used for printout of tabular data and standard control list that are currently effective.									139

7	UPDATE	1						NOTE: This card is used to make permanent changes of the library tape. Printout of library tape follows changes.									

								NEW BASE FLOW, CFS									
7	BASFLOS								NOTE: This card normally precedes a COMPUT card.								

EXECUTIVE CONTROL FOR WATERSHED

SCS - 274
Rev. 2-68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	CARD NO./ IDENTIFICATION
			IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.			
			MAIN TIME INCREMENT, HRS.	(This increment is required for initial computations. Remains in force until new increment is entered or permanent data changed.)		
7	INCREM	6	0.10			1
				24hr ESH DA = 37.59		
			STARTING TIME, HRS.	RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall)	RAINFALL DURATION, HRS.	RAIN TABLE NO. / AMC / ALTERNATE NO. / STORM NO.
			FROM XSECTN OR STRUCT / THRU (1) XSECTN OR STRUCT			
7	COMPUT	7	002 / 01	0.0 / 5.85	1.0	6 2 01 06
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.			1
				24hr FBH DA = 37.59		
7	COMPUT	7	602 / 01	0.0 / 11.17	1.0	6 2 01 07
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.			1
				24hr ESH (DA = 46.33)		
7	COMPUT	7	015 / 01	0.0 / 5.78	1.0	6 2 02 08
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.			1
				24hr FBH (DA = 46.33)		
7	COMPUT	7	015 / 01	0.0 / 10.96	1.0	6 2 02 09
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.			1
	ENDJOB	2	NOTE: This card terminates the entire watershed program.			

(1) Starting from the beginning or from the end of the preceding COMPUT card, the program will start with the 1st operation on the standard control list having the XSECTN / STRUCT under FROM and will perform all operations through the 1st appearance of the XSECTN / STRUCT under THRU. Two or more COMPUT cards in series will normally cover successive parts of the standard control list.

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN. 20, 1964

EXECUTIVE CONTROL FOR WATERSHED

SCS - 274
Rev. 2-68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.	FROM XSECTN OR STRUCT	THRU (1) XSECTN OR STRUCT	DATA FIELD #1	DATA FIELD #2	DATA FIELD #3	RAIN TABLE NO.	AMC	ALTERNATE NO.	STORM NO.	CARD NO./ IDENTIFICATION
					IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.							
					MAIN TIME INCREMENT, HRS.	(This increment is required for initial computations. Remains in force until new increment is entered or permanent data changed.)						
7	INCREM	6			0,10							148
					STARTING TIME, HRS.	RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall)	RAINFALL DURATION, HRS.					
7	COMPUT	7	002	01	0,0	2,46 (10-yr) - 37.59 mi²	1,0	2	2	01	10	156
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							161
7	COMPUT	7	002	01	0,0	3,00 ← 3.15 X .955 = (25-yr) 36.59 mi²	1,0	2	2	01	11	152
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							153
7	COMPUT	7	002	01	0,0	3,87 ← 4.05 X .955 = (100-yr) 36.59 mi²	1,0	2	2	01	12	154
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							155
7	COMPUT	7										
	ENDCMP	1			NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.							
	ENDJOB	2			NOTE: This card terminates the entire watershed program.							

(1) Starting from the beginning or from the end of the preceding COMPUT card, the program will start with the 1st operation on the standard control list having the XSECTN / STRUCT under FROM and will perform all operations through the 1st appearance of the XSECTN / STRUCT under THRU. Two or more COMPUT cards in series will normally cover successive parts of the standard control list.

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN. 28, 1964

```
         FULLPRINT                 SUMMARY                              1003
     WEEKS WASH-POWERLINE DAM ANALYSIS, SEPT 1985                       2003
3 STR[illegible]   01                                                   3082
8                1568.2     0.0       175.                              4083
8                1570.1     92.       380.                              5083
8                1572.1     106.      700.                              6083
8                1574.1     119.      1100.                             7083
8                1576.1     130.      1600.                             8083
8                1578.1     141.      2175.                             9083
8                1580.1     150.      2875.                            10083
8                1582.1     159.      3675.                            11083
8                1583.3     165.      4200.                            12083
8                1584.1     668.      4600.                            13083
8                1586.1     4426.     5525.                            14083
8                1588.1     11084.    6725.                            15083
8                1590.1     20092.    7925.                            16083
9 ENDTBL                                                               17084
3 STRUCT       07                                                      18082
8                1967.0     0.0       0.0                              19083
8                1967.5     16.       16.2                             20083
8                1968.0     46.       32.5                             21083
8                1968.5     87.       49.7                             22083
8                1969.0     88.       65.0                             23083
8                1970.5     91.       129.3                            24083
8                1972.1     94.       212.9                            25083
8                1975.2     100.      421.9                            26083
8                1976.7     103.      545.9                            27083
8                1977.8     105.      641.5                            28083
8                1978.3     106.      686.7                            29083
8                1978.8     106.      734.3                            30083
8                1979.3     107.      789.7                            31083
8                1979.8     108.      830.1                            32083
8                1984.5     1293.     1357.7                           33083
8                1987.6     5512.     1774.1                           34083
8                1990.7     12053.    2243.6                           35083
8                1996.7     31953.    3357.8                           36083
8                2000.0     45388.    4029.1                           37083
9 ENDTBL                                                               38084
5 RAINFL 3                 2.40                                      38.1076
8          0.0       .0021      .0041      .0062      .0082          38.2077
8          .0103     .0126      .0148      .0171      .0193          38.3077
8          .0216     .0241      .0266      .0292      .0317          38.4077
8          .0342     .0370      .0399      .0427      .0456          38.5077
8          .0484     .0517      .0549      .0582      .0614          38.6077
8          .0647     .0686      .0724      .0763      .0801          38.7077
8          .0840     .0888      .0936      .0984      .1032          38.8077
8          .1080     .1145      .1210      .1274      .1339          38.9077
8          .1404     .1509      .1613      .1718      .1822         38.10077
8          .1927     .2068      .2244      .2481      .2864         38.11077
8          .6960     .7549      .7840      .8041      .8198         38.12077
8          .8327     .8406      .8486      .8565      .8645         38.13077
8          .8724     .8779      .8834      .8889      .8944         38.14077
8          .8999     .9042      .9085      .9127      .9170         38.15077
8          .9213     .9248      .9284      .9319      .9355         38.16077
8          .9390     .9420      .9450      .9481      .9511         38.17077
8          .9541     .9568      .9594      .9621      .9647         38.18077
8          .9674     .9698      .9722      .9745      .9769         38.19077
8          .9793     .9815      .9836      .9858      .9879         38.20077
8          .9901     .9926      .9951      .9975      1.000         38.21077
9 ENDTBL                                                             38.22078
```

9/24/85

ALT'S 1/2

FILE NAME = (DE./TR-20.WWPL

```
5 RAINFL 4                  2.40                                                    38.23076
8              0.0          .0020       .0041       .006        .0082               38.24077
               .0102        .0125       .0147       .017        .0192               38.25077
               .0215        .0240       .0265       .0290       .0314               38.26077
8              .0339        .0367       .0395       .0424       .0452               38.27077
8              .0480        .0512       .0544       .0577       .0609               38.28077
8              .0641        .0679       .0718       .0756       .0795               38.29077
8              .0833        .0881       .0929       .0976       .1024               38.30077
8              .1072        .1136       .1200       .1265       .1329               38.31077
8              .1393        .1497       .1601       .1706       .1810               37.32077
8              .1914        .2055       .2230       .2466       .2848               38.33077
8              .6776        .7564       .7854       .8054       .8210               38.34077
8              .8339        .8418       .8497       .8576       .8655               38.35077
8              .8734        .8789       .8843       .8898       .8952               38.36077
8              .9007        .9049       .9092       .9134       .9177               38.37077
8              .9219        .9254       .9289       .9325       .9360               38.38077
8              .9395        .9425       .9455       .9485       .9515               38.39077
8              .9545        .9571       .9598       .9624       .9651               38.40077
8              .9677        .9701       .9724       .9748       .9771               38.41077
8              .9795        .9816       .9838       .9859       .9891               38.42077
8              .9902        .9927       .9951       .9975       1.000               38.43077
9 ENDTBL                                                                            38.44078
5 RAINFL 5                  0.25                                                        39076
8              0.0          .0072       .0152       .0251       .0358                   40077
8              .0538        .0717       .0950       .1219       .4910                   41077
8              .6398        .7043       .7661       .8109       .8486                   42077
8              .8799        .9041       .9274       .9453       .9606                   43077
8              .9713        .9821       .9892       .9955       1.0000                  44077
9 ENDTBL                                                                                45078
5 RAINFL 6                  0.50                                                        46076
8              0.0          .0078       .0150       .0214       .0286                   47077
8              .0371        .0457       .0550       .0643       .0750                   48077
8              .0864        .0971       .1071       .1250       .1514                   49077
8              .1821        .2250       .3214       .4143       .4964                   50077
8              .5714        .6421       .6893       .7214       .7500                   51077
8              .7750        .7957       .8143       .8314       .8486                   52077
8              .8621        .8757       .8879       .9000       .9093                   53077
8              .9193        .9286       .9364       .9443       .9514                   54077
8              .9593        .9657       .9714       .9786       .9829                   55077
8              .9879        .9921       .9964       1.0000      1.0000                  56077
9 ENDTBL                                                                                57078
6 RUNOFF 1 015          6 1.72          100.        0.30        1      1   1            58089
6 REACH  3 114    6     5 2700.         0.80                                            59089
6 RUNOFF 1 014          6 1.16          100.        0.25        1      1   1            60089
6 ADDHYD 4 014    5 6 7                                         1      1   1            61089
6 SAVMOV 5 014    7     5                                                               62089
6 RUNOFF 1 016          6 2.24          100.        0.59        1      1   1            63089
6 ADDHYD 4 114    5 6 7                                         1      1   1            64089
6 REACH  3 113    7     5 4300.         0.80                                            65089
6 RUNOFF 1 013          6 1.35          100.        0.21        1      1   1            66089
6 ADDHYD 4 013    5 6 7                                         1      1   1            67089
6 REACH  3 112    7     5 4600.         0.80                                            68089
6 RUNOFF 1 012          6 1.43          100.        0.45        1      1   1            69089
6 ADDHYD 4 012    5 6 7                                         1      1   1            70089
6 REACH  3 111    7     5 1800.         0.80                                            71089
6 RUNOFF 1 011          6 0.63          100.        0.31        1      1   1            72089
6 ADDHYD 4 111    5 6 7                                         1      1   1            73089
6 SAVMOV 5 111    7     5                                                               74089
6 RUNOFF 1 017          6 0.21          100.        0.23        1      1   1            75089
6 ADDHYD 4 117    5 6 7                                         1 1    1   1            76089
```

```
  [illegible]VOR 2    07 6   7 1967.                                      1 1   1   1         78089
  REACH  3 102    7    5 38600.      0.80                                 1     1   1         79089
6 RUNOFF 1 002         6 5.87        100.              2.02               1     1   1         80089
6 ADDHYD 4 102    5 6  1                                                  1 1   1   1         81089
6 RUNOFF 1 005         6 5.52        100.              1.18               1     1   1         82089
6 REACH  3 104    6    5 12500.      0.78                                                     83089
6 RUNOFF 1 004         6 13.11       100.              2.17               1     1   1         84089
6 ADDHYD 4 104    5 6  7                                                  1     1   1         85089
6 SAVMOV 5 104    7    5                                                                      86089
6 RUNOFF 1 006         6 7.17        100.              1.80               1     1   1         87089
6 ADDHYD 4 106    5 6  7                                                  1 1   1   1         88089
6 REACH  3 003    7    5 4000.       0.75                                 1     1   1         89089
6 RUNOFF 1 003         6 5.92        100.              1.41               1     1   1         90089
6 ADDHYD 4 003    5 6  7                                                  1     1   1         91089
6 REACH  3 102    7    5 5500.       0.75                                 1 1   1   1         92089
6 SAVMOV 5 102    1    6                                                                      93089
6 ADDHYD 4     01 5 6  4                                                  1 1   1   1         94089
6 RESVOR 2     01 4    7 1568.2                                           1 1   1   1         95089
  ENDATA                                                                                      96070
7 LIST                  1.00                                                                  97068
7 INCREM 6               0.10                                                                 98068
7 COMPUT 7 002        01 0.0         2.00              1.0                3 2  01  01         99068
  ENDCMP 1                                                                                   100070
7 COMPUT 7 015        01 0.0         2.07              1.0                4 2  02  01        101068
  ENDCMP 1                                                                                   102070
7 ALTER  3                                                                                   103068
6 RUNOFF 1 015         6 1.72        83.               0.30               1     1   1        104089
6 RUNOFF 1 014         6 1.16        82.               0.25               1     1   1        105089
6 RUNOFF 1 016         6 2.24        85.               0.59               1     1   1        106089
6 RUNOFF 1 013         6 1.35        86.               0.21               1     1   1        107089
6 RUNOFF 1 012         6 1.43        69.               0.45               1     1   1        108089
6 RUNOFF 1 011         6 0.63        85.               0.31               1     1   1        109089
6 RUNOFF 1 017         6 0.21        82.               0.23               1     1   1        110089
6 RUNOFF 1 002         6 5.87        79.               2.02               1     1   1        111089
6 RUNOFF 1 005         6 5.52        84.               1.18               1     1   1        112089
6 RUNOFF 1 004         6 13.11       84.               2.17               1     1   1        113089
6 RUNOFF 1 006         6 7.17        82.               1.80               1     1   1        114089
6 RUNOFF 1 003         6 5.92        81.               1.41               1     1   1        115089
7 LIST                                                                                       116068
7 INCREM 6               0.10                                                                117068
7 COMPUT 7 002        01 0.0         4.70              1.0                5 2  01  02        118068
  ENDCMP 1                                                                                   119070
7 COMPUT 7 002        01 0.0         9.05              1.0                5 2  01  03        120068  6K
  ENDCMP 1                                                                                   121070
7 COMPUT 7 015        01 0.0         4.59              1.0                5 2  02  04        122068
  ENDCMP 1                                                                                   123070
7 COMPUT 7 015        01 0.0         8.73              1.0                5 2  02  05        124068
  ENDCMP 1                                                                                   125070
7 ALTER  3                                                                                   126068
6 RUNOFF 1 015         6 1.71        80.               0.30               1     1   1        127089
6 RUNOFF 1 014         6 1.16        79.               0.25               1     1   1        128089
6 RUNOFF 1 016         6 2.24        82.               0.59               1     1   1        129089
6 RUNOFF 1 013         6 1.35        83.               0.21               1     1   1        130089
6 RUNOFF 1 012         6 1.43        86.               0.45               1     1   1        131089
6 RUNOFF 1 011         6 0.63        82.               0.31               1     1   1        132089
6 RUNOFF 1 017         6 0.21        79.               0.23               1     1   1        133089
6 RUNOFF 1 002         6 5.87        75.               2.02               1     1   1        134089
6 RUNOFF 1 005         6 5.52        81.               1.18               1     1   1        135089
6 RUNOFF 1 004         6 13.11       81.               2.17               1     1   1        136089
```

```
6 RUNOFF 1 006      6 7.17      79.     1.80     1     1   1    137089
6 RUNOFF 1 003      6 5.92      78.     1.41     1     1   1    138089
7 LIST                                                         139068
7 INCREM 6          0.10                                       140068
7 COMPUT 7 002   01 0.0      5.85     1.0      6 2 01  06      141068
  ENDCMP 1                                                     142070
7 COMPUT 7 002   01 0.0     11.17     1.0      6 2 01  07      143068
  ENDCMP 1                                                     144070
7 COMPUT 7 015   01 0.0      5.78     1.0      6 2 02  08      145068
  ENDCMP 1                                                     146070
7 COMPUT 7 015   01 0.0     10.96     1.0      6 2 02  09      147068
  ENDCMP 1                                                     148070
7 INCREM 6          0.10                                       149068
7 COMPUT 7 002   01 0.0      2.46     1.0      2 2 01  10      150068
  ENDCMP 1                                                     151070
7 COMPUT 7 002   01 0.0      3.00     1.0      2 2 01  11      152068
  ENDCMP 1                                                     153070
7 COMPUT 7 002   01 0.0      3.87     1.0      2 2 01  12      154068
  ENDCMP 1                                                     155070
7 INCREM 6          0.10                                       156068
7 COMPUT 7 015   01 0.0      2.45     1.0      2 2 02  10      157068
  ENDCMP 1                                                     158070
7 COMPUT 7 015   01 0.0      2.99     1.0      2 2 02  11      159068
  ENDCMP 1                                                     160070
7 COMPUT 7 015   01 0.0      3.85     1.0      2 2 02  12      161068
  ENDCMP 1                                                     162070
  ENDJOB 2                                                     163070
```

EXECUTIVE CONTROL FOR WATERSHED

.CS - 274
Rev. 2-68

Watershed _____ Hydrologist _____ Date _____

DATA CODE	OPERATION NAME	OPERATION NO.			DATA FIELD #1	DATA FIELD #2	DATA FIELD #3		CARD NO./ IDENTIFICATION
			FROM XSECTN OR STRUCT	THRU (1) XSECTN OR STRUCT					
					IMPORTANT: Line out unused cards. Data fields require decimal points. KEYPUNCHER: Left justify data fields.				
					MAIN TIME INCREMENT, HRS.	(This increment is required for initial computations. Remains in force until new increment is entered or permanent data changed.)			
7	INCREM	6			0.10				156
					STARTING TIME, HRS.	RAINFALL DEPTH, INCHES (Set depth and duration to 1.0 for actual rainfall)	RAINFALL DURATION, HRS.	RAIN TABLE NO. / AMC / ALTERNATE NO. / STORM NO.	
7	COMPUT	7	015	01	0,0	2.45 (10-yr - 4633 mi²; .95 x 2.58)	1.0	22 02 19	157
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.						158
7	COMPUT	7	015	01	0,0	2.99 (25-yr - 4.33 mi²; .95 x 3.15)	1,0	22 02 11	159
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.						160
7	COMPUT	7	015	01	0,0	3.85 (100-yr 4.33 mi²; .95 x 4.05)	1.0	22 02 12	161
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.						162
7	COMPUT	7							
	ENDCMP	1	NOTE: This card is required at "end" of a watershed; it may follow a series of COMPUT cards.						
	ENDJOB	2	NOTE: This card terminates the entire watershed program.						163

(1) Starting from the beginning or from the end of the preceding COMPUT card, the program will start with the 1st operation on the standard control list having the XSECTN / STRUCT under FROM and will perform all operations through the 1st appearance of the XSECTN / STRUCT under THRU. Two or more COMPUT cards in series will normally cover successive parts of the standard control list.

WATERSHED PROGRAM, SOIL CONSERVATION SERVICE, JAN. 20, 1964

```
EACH          7   5 4000.     0.75                    1          1    89089
•NOFF 1 0         6 5.92      100.        1.41        1          1    90089
DDHYD 4 003    5 6 7                                  1       1  1    91089
EACH  3 102    7   5 5500.    0.75                    1 1     1  1    92089
AVMOV 5 102    1   6                                                  93089
DDHYD 4     01 5 6 4                                  1 1     1  1    94089
ESVOR 2     01 4   7 1568.2                           1 1     1  1    95089
NDATA                                                                 96070
IST                1.00                                               97068
NCREM 6            0.10                                               98068
OMPUT 7 015     01 0.0        2.07        1.0         4 2    03 01   101068
NDCMP 1                                                              102070
LTER  3                                                              103068
UNOFF 1 015       6 1.72      83.         0.30        1       1  1   104089
UNOFF 1 014       6 1.16      82.         0.25        1       1  1   105089
UNOFF 1 016       6 2.24      85.         0.59        1       1  1   106089
UNOFF 1 013       6 1.35      86.         0.21        1       1  1   107089
UNOFF 1 012       6 1.43      89.         0.45        1       1  1   108089
UNOFF 1 011       6 0.63      85.         0.31        1       1  1   109089
UNOFF 1 017       6 0.21      82.         0.23        1       1  1   110089
UNOFF 1 002       6 5.87      79.         2.02        1       1  1   111089
UNOFF 1 005       6 5.52      84.         1.18        1       1  1   112089
UNOFF 1 004       6 13.11     84.         2.17        1       1  1   113089
UNOFF 1 006       6 7.17      82.         1.80        1       1  1   114089
UNOFF 1 003       6 5.92      81.         1.41        1       1  1   115089
IST                                                                  116068
NCREM 6            0.10                                              117068
OMPUT 7 015     01 0.0        4.59        1.0         5 2    03 04   122068
NDCMP 1                                                              123070
OMPUT 7 015     01 0.0        8.73        1.0         5 2    03 05   124068
NDCMP 1                                                              125070
LTER  3                                                              126068
UNOFF 1 015       6 1.71      80.         0.30        1       1  1   127089
UNOFF 1 014       6 1.16      79.         0.25        1       1  1   128089
UNOFF 1 016       6 2.24      82.         0.59        1       1  1   129089
UNOFF 1 013       6 1.35      83.         0.21        1       1  1   130089
UNOFF 1 012       6 1.43      86.         0.45        1       1  1   131089
UNOFF 1 011       6 0.63      82.         0.31        1       1  1   132089
UNOFF 1 017       6 0.21      79.         0.23        1       1  1   133089
UNOFF 1 002       6 5.87      75.         2.02        1       1  1   134089
UNOFF 1 005       6 5.52      81.         1.18        1       1  1   135089
UNOFF 1 004       6 13.11     81.         2.17        1       1  1   136089
UNOFF 1 006       6 7.17      79.         1.80        1       1  1   137089
UNOFF 1 003       6 5.92      78.         1.41        1       1  1   138089
IST                                                                  139068
NCREM 6            0.10                                              140068
OMPUT 7 015     01 0.0        5.78        1.0         6 2    03 08   145068
NDCMP 1                                                              146070
OMPUT 7 015     01 0.0        10.96       1.0         6 2    03 09   147068
NDCMP 1                                                              148070
NCREM 6            0.10                                              149068
NCREM 6            0.10                                              156068
OMPUT 7 015     01 0.0        2.45        1.0         2 2    03 10   157068
NDCMP 1                                                              158070
OMPUT 7 015     01 0.0        2.99        1.0         2 2    03 11   159068
NDCMP 1                                                              160070
OMPUT 7 015     01 0.0        3.85        1.0         2 2    03 12   161068
NDCMP 1                                                              162070
NDJOB 2                                                              163070
```

```
A START JOB 7181 SCS04CKT 0001 0001 R0167    TR20 CKT          WCC RJ167   2.24.06 PM 24 SEP 85  R167.PR1  SYS M308 START  A*
A START JOB 7181 SCS04CKT 0001 0001 R0167    TR20 CKT          WCC RJ167   2.24.06 PM 24 SEP 85  R167.PR1  SYS M308 START  A*
A START JOB 7181 SCS04CKT 0001 0001 R0167    TR20 CKT          WCC RJ167   2.24.06 PM 24 SEP 85  R167.PR1  SYS M308 START  A*
A START JOB 7181 SCS04CKT 0001 0001 R0167    TR20 CKT          WCC RJ167   2.24.06 PM 24 SEP 85  R167.PR1  SYS M308 START  A*
A START JOB 7181 SCS04CKT 0001 0001 R0167    TR20 CKT          WCC RJ167   2.24.06 PM 24 SEP 85  R167.PR1  SYS M308 START  A*
*****************************************************************
*****************************************************************
```

WCC SECURITY MESSAGE

UNDER THE PRIVACY ACT OF 1974, ALL DATA OF A PRIVACY NATURE MUST BE PROTECTED FROM UNAUTHORIZED DISCLOSURE. YOU ARE RESPONSIBLE FOR THE PRIVACY OF THIS DATA.

****

Check PR167.11
ALT'S 1 12

J E S 2 J O B L O G -- S Y S T E M M 3 0 8 -- N O D E W C C

```
14.24.01 JOB 7181   $HASP373 SCS04CKT STARTED - INIT  3 - CLASS C - SYS M308
14.24.03 JOB 7181    **** 85267 .            RJ167  SCS04CKT  COST---$        .72 ****
14.24.03 JOB 7181   $HASP395 SCS04CKT ENDED

------ JES2 JOB STATISTICS ------

 24 SEP 85 JOB EXECUTION DATE

       216 CARDS READ

       359 SYSOUT PRINT RECORDS

         0 SYSOUT PUNCH RECORDS

      0.03 MINUTES EXECUTION TIME
```

```
1       //SCS04CKT JOB (          ,RJ167),'TR20 CKT ',TIME=(0,20),                JOB 7181
        // CLASS=C,PRTY=13,MSGLEVEL=(1,1)
        ***LOGONID  SCS54     $ACF1770 LOGONID SUCCESSFULLY SCANNED
        ***ROUTE  PRINT RMT167
2       //STEP1 EXEC SCSCKT20
3       XXSCSCKT20 PROC NAME='SCS17.PGM.LOAD',PROG=CKTR20,CORE=60K                00000070
        ***                                                                       00000080
        ***                            (SCSCKT20)                                 00000090
        ***                                                                       00000100
        ***    PROGRAM REVISION DATE  -  07/01/78                                 00000110
        ***                                                                       00000120
        *** *********************************************************************00000130
        *** PROC REVISION DATE   -  06/10/83                                     00000131
        *** PROC REVISION DATE   -  10/18/78                                     00000140
        *** PROC CREATED BY      -  SOIL CONSERVATION SERVICE                    00000150
        ***                         ADP STAFF, FORT WORTH, TEXAS                  00000160
        ***                                                                       00000170
        ***      CONCTACTS       -  HEAD, OPERATIONS                             00000180
        ***                         FTS/COM  (817) 334-5231                       00000190
        *** *********************************************************************00000200
        ***                                                                       00000210
        ***      THESE ARE THE JCL'S FOR THE ORIGINAL SCS VERSION                 00000220
        ***      OF THE DATA CHECK COMPUTER PROGRAM (CKTR20) FOR THE              00000230
        ***      CONVEX ROUTING VERSION OF THE TR20 COMPUTER PROGRAM.             00000240
        ***                                                                       00000250
        ***      TO EXECUTE THIS PROC, CREATE THE FOLLOWING JCL'S:                00000260
        ***                                                                       00000270
        ***      //STEP1  EXEC  SCSCKT20                                          00000280
        ***      //CKT20.INPUT DD *                                               00000290
        ***                  **************                                       00000300
        ***                  *      DATA    *                                     00000310
        ***                  *      HERE    *                                     00000320
        ***                  **************                                       00000330
        ***      /*                                                             00000340
        ***      //                                                             00000350
        ***                                                                       00000360
        *** *********************************************************************00000370
        ***                                                                       00000380
4       XXCKT20 EXEC PGM=&PROG,REGION=&CORE                                       00000390
5       XXSTEPLIB  DD DSN=&NAME,DISP=SHR                                          00000400
6       XXFT05F001 DD DDNAME=INPUT                                                00000410
7       XXFT06F001 DD SYSOUT=A                                                    00000420
8       //CKT20.INPUT DD *
        ***PASSWORD  $ACF1770 PASSWORD(S) SUCCESSFULLY SCANNED
        //
```

```
 STMT NO. MESSAGE
-
    4      IEF653I SUBSTITUTION JCL - PGM=CKTR20,REGION=60K
    5      IEF653I SUBSTITUTION JCL - DSN=SCS17.PGM.LOAD,DISP=SHR
IEF236I ALLOC. FOR SCS04CKT CKT20 STEP1
IEF237I 602  ALLOCATED TO STEPLIB
IEF237I 60F  ALLOCATED TO SYS01085
IEF237I JES2 ALLOCATED TO FT05F001
IEF237I JES2 ALLOCATED TO FT06F001
IEF142I SCS04CKT CKT20 STEP1 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SCS17.PGM.LOAD                                  KEPT
IEF285I   VOL SER NOS= STR017.
IEF285I   ICFUCAT.VSYSCA3                                 KEPT
IEF285I   VOL SER NOS= SYSCA3.
IEF285I   JES2.JOB07181.SI0101                            SYSIN
IEF285I   JES2.JOB07181.S00102                            SYSOUT
IEF373I STEP /CKT20   / START 85267.1424
IEF374I STEP /CKT20   / STOP  85267.1424 CPU     0MIN 00.18SEC SRB     0MIN 00.00SEC VIRT     48K SYS    180K
IEF375I  JOB /SCS04CKT/ START 85267.1424
IEF376I  JOB /SCS04CKT/ STOP  85267.1424 CPU     0MIN 00.18SEC SRB     0MIN 00.00SEC
****** $       .72  APPROXIMATE JOB COST -- RATES AS OF  FEB  1, 1985              **3033**
JOB LOG NUMBER -- 14232341 85267
```

EKS WASH-POWERLINE DAM ANALYSIS, SEPT 1985

3	STRUCT 0 01						3
8			1568.2000	[illegible]	175.0000		4
8			1570.1001	92.0000	380.0000		5
8			1572.1001	106.0000	700.0000		6
8			1574.1001	119.0000	1100.0000		7
8			1576.1001	130.0000	1600.0000		8
8			1578.1001	141.0000	2175.0000		9
8			1580.1001	150.0000	2875.0000		10
8			1582.1001	159.0000	3675.0000		11
8			1583.3000	165.0000	4200.0000		12
8			1584.1001	668.0000	4600.0000		13
8			1586.1001	4426.0000	5525.0000		14
8			1588.1001	11084.0000	6725.0000		15
8			1590.1001	20092.0000	7925.0000		16
9	ENDTBL						17
3	STRUCT 0 07						18
8			1967.0000	0.0	0.0		19
8			1967.5000	16.0000	16.2000		20
8			1968.0000	46.0000	32.5000		21
8			1968.5000	87.0000	49.7000		22
8			1969.0000	88.0000	65.0000		23
8			1970.5000	91.0000	129.3000		24
8			1972.1001	94.0000	212.9000		25
8			1975.2000	100.0000	421.8999		26
8			1976.7000	103.0000	545.9999		27
8			1977.8000	105.0000	641.5000		28
8			1978.3000	106.0000	686.7000		29
8			1978.8000	106.0000	734.3000		30
8			1979.3000	107.0000	789.7000		31
8			1979.8000	108.0000	830.1001		32
8			1984.5000	1293.0000	1357.7000		33
8			1987.6001	5512.0000	1774.1001		34
8			1990.7000	12053.0000	2243.6001		35
8			1996.7000	31953.0000	3357.8000		36
8			2000.0000	45388.0000	4029.1001		37
9	ENDTBL						38
5	RAINFL 3	2.40					38.1
8		0.0	0.0021	0.0041	0.0062	0.0082	38.2
8		0.0103	0.0126	0.0148	0.0171	0.0193	38.3
8		0.0216	0.0241	0.0266	0.0292	0.0317	38.4
8		0.0342	0.0370	0.0399	0.0427	0.0456	38.5
8		0.0484	0.0517	0.0549	0.0582	0.0614	38.6
8		0.0647	0.0686	0.0724	0.0763	0.0801	38.7
8		0.0840	0.0888	0.0936	0.0984	0.1032	38.8
8		0.1080	0.1145	0.1210	0.1274	0.1339	38.9
8		0.1404	0.1509	0.1613	0.1718	0.1822	38.10
8		0.1927	0.2068	0.2244	0.2481	0.2864	38.11
8		0.6960	0.7549	0.7840	0.8041	0.8198	38.12
8		0.8327	0.8406	0.8486	0.8565	0.8645	38.13
8		0.8724	0.8779	0.8834	0.8889	0.8944	38.14
8		0.8999	0.9042	0.9085	0.9127	0.9170	38.15
8		0.9213	0.9248	0.9284	0.9319	0.9355	38.16
8		0.9390	0.9420	0.9450	0.9481	0.9511	38.17
8		0.9541	0.9568	0.9594	0.9621	0.9647	38.18
8		0.9674	0.9698	0.9722	0.9745	0.9769	38.19
8		0.9793	0.9815	0.9836	0.9858	0.9879	38.20
8		0.9901	0.9926	0.9951	0.9975	1.0000	38.21
9	ENDTBL 0						38.22
5	RAINFL 4	2.40					38.23
		0.0	0.0020	0.0041	0.0061	0.0082	38.24

```
 8                0.0102      0.0125      0.0147      0.0170      0.0192    38.25
 8                0.0215      0.0240      0.0265      0.0290      0.0314    38.26
 8                0.0339      0.0367      0.0395      0.0424      0.0452    38.27
 8                0.0480      0.0512      0.0544      0.0577      0.0609    38.28
 8                0.0641      0.0679      0.0718      0.0756      0.0795    38.29
 8                0.0833      0.0881      0.0929      0.0976      0.1024    38.30
 8                0.1072      0.1136      0.1200      0.1265      0.1329    38.31
 8                0.1393      0.1497      0.1601      0.1706      0.1810    37.32
 8                0.1914      0.2055      0.2230      0.2466      0.2848    38.33
 8                0.6776      0.7564      0.7854      0.8054      0.8210    38.34
 8                0.8339      0.8418      0.8497      0.8576      0.8655    38.35
 8                0.8734      0.8789      0.8843      0.8898      0.8952    38.36
 8                0.9007      0.9049      0.9092      0.9134      0.9177    38.37
 8                0.9219      0.9254      0.9289      0.9325      0.9360    38.38
 8                0.9395      0.9425      0.9455      0.9488      0.9515    38.39
 8                0.9545      0.9571      0.9598      0.9624      0.9651    38.40
 8                0.9677      0.9701      0.9724      0.9748      0.9771    38.41
 8                0.9795      0.9816      0.9838      0.9859      0.9891    38.42
 8                0.9902      0.9927      0.9951      0.9975      1.0000    38.43
 9 ENDTBL 0                                                                 38.44

ID NO.   38.44  ENDTBL   TABLE NOT IN ORDER.

 5 RAINFL 5              0.25                                               39
 8                0.0         0.0072      0.0152      0.0251      0.0358    40
 8                0.0538      0.0717      0.0950      0.1219      0.4910    41
 8                0.6398      0.7043      0.7661      0.8109      0.8486    42
 8                0.8799      0.9041      0.9274      0.9453      0.9606    43
 8                0.9713      0.9821      0.9892      0.9955      1.0000    44
 9 ENDTBL                                                                   45
 5 RAINFL 6              0.50                                               46
 8                0.0         0.0078      0.0150      0.0214      0.0286    47
 8                0.0371      0.0457      0.0550      0.0643      0.0750    48
 8                0.0864      0.0971      0.1071      0.1250      0.1514    49
 8                0.1821      0.2250      0.3214      0.4143      0.4964    50
 8                0.5714      0.6421      0.6893      0.7214      0.7500    51
 8                0.7750      0.7957      0.8143      0.8314      0.8486    52
 8                0.8621      0.8757      0.8879      0.9000      0.9093    53
 8                0.9193      0.9286      0.9364      0.9443      0.9514    54
 8                0.9593      0.9657      0.9714      0.9786      0.9829    55
 8                0.9879      0.9921      0.9964      1.0000      1.0000    56
 9 ENDTBL                                                                   57
 6 RUNOFF 1 015       6 1.72        100.        0.30        1    1    1     58

ID NO.      58  RUNOFF  CURV SHOULD BE CHECKED.

 6 REACH  3 114   6   5 2700.       0.80                                     59
 6 RUNOFF 1 014       6 1.55        100.        0.25        1    1    1     60

ID NO.      60  RUNOFF  CURV SHOULD BE CHECKED.

 6 ADDHYD 4 014   5 6 7                                    1    1    1     61
 6 SAVMOV 5 014   7   5                                                     62
 6 RUNOFF 1 016       6 2.24        100.        0.59        1    1    1     63

ID NO.      63  RUNOFF  CURV SHOULD BE CHECKED.
```

```
 6 ADDHYD  4 114    5 6 7                                          1      1   1        64
 6 REACH   3 113    7   5 4300.          0.80                                         65
 6 RUNOFF  1 013        6 1.35           100.          0.21       1      1   1        66

ID NO.      66  RUNOFF  CURV SHOULD BE CHECKED.

 6 ADDHYD  4 013    5 6 7                                          1      1   1        67
 6 REACH   3 112    7   5 4600.          0.80                                         68
 6 RUNOFF  1 012        6 1.43           100.          0.45       1      1   1        69

ID NO.      69  RUNOFF  CURV SHOULD BE CHECKED.

 6 ADDHYD  4 012    5 6 7                                          1      1   1        70
 6 REACH   3 111    7   5 1800.          0.80                                         71
 6 RUNOFF  1 011        6 0.63           100.          0.31       1      1   1        72

ID NO.      72  RUNOFF  CURV SHOULD BE CHECKED.

 6 ADDHYD  4 111    5 6 7                                          1      1   1        73
 6 SAVMOV  5 111    7   5                                                            74
 6 RUNOFF  1 017        6 0.21           100.          0.23       1      1   1        75

ID NO.      75  RUNOFF  CURV SHOULD BE CHECKED.

 6 ADDHYD  4 117    5 6 7                                          1 1    1   1        76
 6 SAVMOV  5 117    7   6                                                            77
 6 RESVOR  2     07 6   7 1967.                                   1 1    1   1        78
 6 REACH   3 102    7   5 38600.         0.80                     1      1   1        79

ID NO.      79  REACH   LGTH SHOULD BE CHECKED.

 6 RUNOFF  1 002        6 5.87           100.          2.02       1      1   1        80

ID NO.      80  RUNOFF  CURV SHOULD BE CHECKED.

 6 ADDHYD  4 102    5 6 1                                          1 1    1   1        81
 6 RUNOFF  1 005        6 5.52           100.          1.18       1      1   1        82

ID NO.      82  RUNOFF  CURV SHOULD BE CHECKED.

 6 REACH   3 104    6   5 12500.         0.78                                         83
 6 RUNOFF  1 004        6 13.11          100.          2.17       1      1   1        84

ID NO.      84  RUNOFF  CURV SHOULD BE CHECKED.

 6 ADDHYD  4 104    5 6 7                                          1      1   1        85
 6 SAVMOV  5 104    7   5                                                            86
 6 RUNOFF  1 006        6 7.17           100.          1.80       1      1   1        87

ID NO.      87  RUNOFF  CURV SHOULD BE CHECKED.

 6 ADDHYD  4 106    5 6 7                                          1 1    1   1        88
 6 REACH   3 003    7   5 4000.          0.75                     1      1   1        89
 6 RUNOFF  1 003        6 5.92           100.          1.41       1      1   1        90

ID NO.      90  RUNOFF  CURV SHOULD BE CHECKED.

 6 ADDHYD  4 003    5 6 7                                          1      1   1        91
```

7	LIST	0										
7	INCR				0.10							98
7	COMPU		02	01	0.0	2.00	1.0			01	01	99

ID NO. 99 COMPUT CHECK ALTERNATE NUMBER

0	ENDCMP	1										100
7	COMPUT	7	015	01	0.0	2.07	1.0	4	2	02	01	101

ID NO. 101 COMPUT CHECK ALTERNATE NUMBER

0	ENDCMP	1										102
7	ALTER	3										103
6	RUNOFF	1	015	6	1.72	83.	0.30	1		1	1	104
6	RUNOFF	1	014	6	~~1.55~~ 1.16	82.	0.25	1		1	1	105
6	RUNOFF	1	016	6	2.24	85.	0.59	1		1	1	106
6	RUNOFF	1	013	6	1.35	86.	0.21	1		1	1	107
6	RUNOFF	1	012	6	1.43	89.	0.45	1		1	1	108
6	RUNOFF	1	011	6	0.63	85.	0.31	1		1	1	109
6	RUNOFF	1	017	6	0.21	82.	0.23	1		1	1	110
6	RUNOFF	1	002	6	5.87	79.	2.02	1		1	1	111
6	RUNOFF	1	005	6	5.52	84.	1.18	1		1	1	112
6	RUNOFF	1	004	6	13.11	84.	2.17	1		1	1	113
6	RUNOFF	1	006	6	7.17	82.	1.80	1		1	1	114
6	RUNOFF	1	003	6	5.92	81.	1.41	1		1	1	115
7	LIST	0										116
7	INCREM	6			0.10							117
7	COMPUT	7	002	01	0.0	4.70	1.0	5	2	01	02	118
0	ENDCMP	1										119
7	COMPUT	7	002	01	0.0	9.05	1.0	5	2	01	03	120
0	ENDCMP	1										121
7	COMPUT	7	015	01	0.0	4.59	1.0	5	2	02	04	122
0	ENDCMP	1										123
7	COMPUT	7	015	01	0.0	8.73	1.0	5	2	02	05	124
0	ENDCMP	1										125
7	ALTER	3										126
6	RUNOFF	1	015	6	1.71	80.	0.30	1		1	1	127
6	RUNOFF	1	014	6	~~1.55~~ 1.16	79.	0.25	1		1	1	128
6	RUNOFF	1	016	6	2.24	82.	0.59	1		1	1	129
6	RUNOFF	1	013	6	1.35	83.	0.21	1		1	1	130
6	RUNOFF	1	012	6	1.43	86.	0.45	1		1	1	131
6	RUNOFF	1	011	6	0.63	82.	0.31	1		1	1	132
6	RUNOFF	1	017	6	0.21	79.	0.23	1		1	1	133
6	RUNOFF	1	002	6	5.87	75.	2.02	1		1	1	134
6	RUNOFF	1	005	6	5.52	81.	1.18	1		1	1	135
6	RUNOFF	1	004	6	13.11	81.	2.17	1		1	1	136
6	RUNOFF	1	006	6	7.17	79.	1.80	1		1	1	137
6	RUNOFF	1	003	6	5.92	78.	1.41	1		1	1	138
7	LIST	0										139
7	INCREM	6			0.10							140
7	COMPUT	7	002	01	0.0	5.85	1.0	6	2	01	06	141
0	ENDCMP	1										142
7	COMPUT	7	002	01	0.0	11.17	1.0	6	2	01	07	143

ID NO. 143 COMPUT RAIN DEPTH SHOULD BE CHECKED.

0	ENDCMP	1	144

```
 7 COMPUT 7 015       01 0.0          5.78          1.0          6 2  02  08      145
 0 ENDCMP 1                                                                      146
 7 COMPUT 7 015       01 0.0          10.96         1.0          6 2  02  09      147

ID NO.     147  COMPUT  RAIN DEPTH SHOULD BE CHECKED.

 0 ENDCMP 1                                                                      148
 7 INCREM 6               0.10                                                   149
 7 COMPUT 7 002       01 0.0          1.46          1.0          2 2  01  10      150
 0 ENDCMP 1                                                                      151
 7 COMPUT 7 002       01 0.0          3.00          1.0          2 2  01  11      152

ID NO.     152  COMPUT  CHECK STORM NUMBER

 0 ENDCMP 1                                                                      153
 7 COMPUT 7 002       01 0.0          3.87          1.0          2 2  01  12      154

ID NO.     154  COMPUT  CHECK STORM NUMBER

 0 ENDCMP 1                                                                      155
 7 INCREM 6               0.10                                                   156
 7 COMPUT 7 015       01 0.0          2.45          1,0          2 2  02  10      157

ID NO.     157  COMPUT  DECIMAL MISSING.

 0 ENDCMP 1                                                                      158
 7 COMPUT 7 015       01 0.0          2.99          1,0          2 2  02  11      159

ID NO.     159  COMPUT  DECIMAL MISSING.

 0 ENDCMP 1                                                                      160
 7 COMPUT 7 015       01 0.0          3.85          1,0          2 2  02  12      161

ID NO.     161  COMPUT  DECIMAL MISSING.

 0 ENDCMP 1                                                                      162
 0 ENDJOB 2                                                                      163

TOTAL DRAINAGE AREA =      46.~~72~~ 33 SQ. MI.


STORMS            =   12
ALTERNATES        =    2
STANDARD CONTROLS =   38
```

```
FILENAME = (DES/TR20.W[illegible])                ALT # 1 #2        Date:  9/25/85    Time:  [illegible]:  8

JOB TR-20                          FULLPRINT          SUMMARY                                          1003
TITLE     WEEKS WASH-POWERLINE DAM ANALYSIS, SEPT 1985                                                2003
  3 STRUCT       01                                                                                     3082
  8                              1568.2          0.0          175.                                    4083
  8                              1570.1          92.          380.                                    5083
  8                              1572.1          106.         700.                                    6083
  8                              1574.1          119.         1100.                                   7083
  8                              1576.1          130.         1600.                                   8083
  8                              1578.1          141.         2175.                                   9083
  8                              1580.1          150.         2875.                                   10083
  8                              1582.1          159.         3675.                                   11083
  8                              1583.3          165.         4200.                                   12083
  8                              1584.1          668.         4600.                                   13083
  8                              1586.1          4426.        5525.                                   14083
  8                              1588.1          11084.       6725.                                   15083
  8                              1590.1          20092.       7925.                                   16083
  9 ENDTBL                                                                                            17084
  3 STRUCT       07                                                                                   18082
  8                              1967.0          0.0          0.0                                     19083
  9 ENDTBL                                                                                            38084
  5 RAINFL 3                     2.40                                                                 38.1076
  8              0.0             .0021           .0041        .0062          .0082                    38.2077
  8              .0103           .0126           .0148        .0171          .0193                    38.3077
  8              .0216           .0241           .0266        .0292          .0317                    38.4077
  8              .0342           .0370           .0399        .0427          .0456                    38.5077
  8              .0484           .0517           .0549        .0582          .0614                    38.6077
  8              .0647           .0686           .0724        .0763          .0801                    38.7077
  8              .0840           .0888           .0936        .0984          .1032                    38.8077
  8              .1080           .1145           .1210        .1274          .1339                    38.9077
  8              .1404           .1509           .1613        .1718          .1822                    38.10077
  8              .1927           .2068           .2244        .2481          .2864                    38.11077
  8              .6960           .7549           .7840        .8041          .8198                    38.12077
  8              .8327           .8406           .8486        .8565          .8645                    38.13077
  8              .8724           .8779           .8834        .8889          .8944                    38.14077
  8              .8999           .9042           .9085        .9127          .9170                    38.15077
  8              .9213           .9248           .9284        .9319          .9355                    38.16077
  8              .9390           .9420           .9450        .9481          .9511                    38.17077
  8              .9541           .9568           .9594        .9621          .9647                    38.18077
  8              .9674           .9698           .9722        .9745          .9769                    38.19077
  8              .9793           .9815           .9836        .9858          .9879                    38.20077
  8              .9901           .9926           .9951        .9975          1.000                    38.21077
  9 ENDTBL                                                                                            38.22078
  5 RAINFL 4                     2.40                                                                 38.23076
  8              0.0             .0020           .0041        .0061          .0082                    38.24077
  8              .0102           .0125           .0147        .0170          .0192                    38.25077
  8              .0215           .0240           .0265        .0290          .0314                    38.26077
  8              .0339           .0367           .0395        .0424          .0452                    38.27077
  8              .0480           .0512           .0544        .0577          .0609                    38.28077
  8              .0641           .0679           .0718        .0756          .0795                    38.29077
  8              .0833           .0881           .0929        .0976          .1024                    38.30077
  8              .1072           .1136           .1200        .1265          .1329                    38.31077
  8              .1393           .1497           .1601        .1706          .1810                    37.32077
  8              .1914           .2055           .2230        .2466          .2848                    38.33077
  8              .6776           .7564           .7854        .8054          .8210                    38.34077
  8              .8339           .8418           .8497        .8576          .8655                    38.35077
  8              .8734           .8789           .8843        .8898          .8952                    38.36077
  8              .9007           .9049           .9092        .9134          .9177                    38.37077
  8              .9219           .9254           .9289        .9325          .9360                    38.38077
  8              .9395           .9429           .9455        .9485          .9515                    38.39077
  8              .9545           .9571           .9598        .9624          .9651                    38.40077
```

```
8          .9677          .9701          .9724          .9748          .9771          .9077
8          .9795          .9816          .9838          .9859          .9881          .9077
8          .9902          .9927          .9951          .9975          1.000          38.43077
9 ENDTBL                                                                            38.44078
5 RAINFL 5                0.25                                                         39076
8          0.0            .0072          .0152          .0251          .0358          40077
8          .0538          .0717          .0950          .1219          .4910          41077
8          .6398          .7043          .7661          .8109          .8486          42077
8          .8799          .9041          .9274          .9453          .9606          43077
8          .9713          .9821          .9892          .9955          1.0000         44077
9 ENDTBL                                                                            45078
5 RAINFL 6                0.50                                                         46076
8          0.0            .0078          .0150          .0214          .0286          47077
8          .0371          .0457          .0550          .0643          .0750          48077
8          .0864          .0971          .1071          .1250          .1514          49077
8          .1821          .2250          .3214          .4143          .4964          50077
8          .5714          .6421          .6893          .7214          .7500          51077
8          .7750          .7957          .8143          .8314          .8486          52077
8          .8621          .8757          .8879          .9000          .9093          53077
8          .9193          .9286          .9364          .9443          .9514          54077
8          .9593          .9657          .9714          .9786          .9829          55077
8          .9879          .9921          .9964          1.0000         1.0000         56077
9 ENDTBL                                                                            57078
6 RUNOFF  1 015        6 1.72          100.           0.30           1    1    1     58089
6 REACH   3 114    6   5 2700.         0.80                                         59089
6 RUNOFF  1 014        6 1.16          100.           0.25           1    1    1     60089
6 ADDHYD  4 014    5 6 7                                             1    1    1     61089
6 SAVMOV  5 014    7   5                                                           62089
6 RUNOFF  1 016        6 2.24          100.           0.59           1    1    1     63089
6 ADDHYD  4 114    5 6 7                                             1    1    1     64089
6 REACH   3 113    7   5 4300.         0.80                                         65089
6 RUNOFF  1 013        6 1.35          100.           0.21           1    1    1     66089
6 ADDHYD  4 013    5 6 7                                             1    1    1     67089
6 REACH   3 112    7   5 4600.         0.80                                         68089
6 RUNOFF  1 012        6 1.43          100.           0.45           1    1    1     69089
6 ADDHYD  4 012    5 6 7                                             1    1    1     70089
6 REACH   3 111    7   5 1800.         0.80                                         71089
6 RUNOFF  1 011        6 0.63          100.           0.31           1    1    1     72089
6 ADDHYD  4 111    5 6 7                                             1    1    1     73089
6 SAVMOV  5 111    7   5                                                           74089
6 RUNOFF  1 017        6 0.21          100.           0.23           1    1    1     75089
6 ADDHYD  4 117    5 6 7                                             1 1  1    1     76089
6 SAVMOV  5 117    7   6                                                           77089
6 RESVOR  2    07  6   7 1967.                                       1 1  1    1     78089
6 REACH   3 102    7   5 38600.        0.80                          1    1    1     79089
6 RUNOFF  1 002        6 5.87          100.           0.02           1    1    1     80089
6 ADDHYD  4 102    5 6 1                                             1 1  1    1     81089
6 RUNOFF  1 005        6 5.52          100.           1.18           1    1    1     82089
6 REACH   3 104    6   5 12500.        0.78                                         83089
6 RUNOFF  1 004        6 13.11         100.           2.17           1    1    1     84089
6 ADDHYD  4 104    5 6 7                                             1    1    1     85089
6 SAVMOV  5 104    7   5                                                           86089
6 RUNOFF  1 006        6 7.17          100.           1.80           1    1    1     87089
6 ADDHYD  4 106    5 6 7                                             1 1  1    1     88089
6 REACH   3 003    7   5 4000.         0.75                          1    1    1     89089
6 RUNOFF  1 003        6 5.92          100.           1.41           1    1    1     90089
6 ADDHYD  4 003    5 6 7                                             1    1    1     91089
6 REACH   3 102    7   5 5500.         0.75                          1 1  1    1     92089
6 SAVMOV  5 102    1   6                                                           93089
6 ADDHYD  4    01  5 6 4                                             1 1  1    1     94089
```

```
6 RESVOR 2     01 4    7    568.2                          1 1   1   1      089
  ENDATA                                                                     0
7 LIST                                                                    97068
7 INCREM 6                  0.10                                          98068
7 COMPUT 7 015       01 0.0          2.07          1.0          4 2  03  01 101068
  ENDCMP 1                                                                102070
7 ALTER  3                                                                103068
6 RUNOFF 1 015        6 1.72          83.          0.30          1    1   1 104089
6 RUNOFF 1 014        6 1.16          82.          0.25          1    1   1 105089
6 RUNOFF 1 016        6 2.24          85.          0.59          1    1   1 106089
6 RUNOFF 1 013        6 1.35          86.          0.21          1    1   1 107089
6 RUNOFF 1 012        6 1.43          89.          0.45          1    1   1 108089
6 RUNOFF 1 011        6 0.63          85.          0.31          1    1   1 109089
6 RUNOFF 1 017        6 0.21          82.          0.23          1    1   1 110089
6 RUNOFF 1 002        6 5.87          79.          2.02          1    1   1 111089
6 RUNOFF 1 005        6 5.52          84.          1.18          1    1   1 112089
6 RUNOFF 1 004        6 13.11         84.          2.17          1    1   1 113089
6 RUNOFF 1 006        6 7.17          82.          1.80          1    1   1 114089
6 RUNOFF 1 003        6 5.92          81.          1.41          1    1   1 115089
7 LIST                                                                    116068
7 INCREM 6                  0.10                                          117068
7 COMPUT 7 015       01 0.0          4.59          1.0          5 2  03  04 122068
  ENDCMP 1                                                                123070
7 COMPUT 7 015       01 0.0          8.73          1.0          5 2  03  05 124068
  ENDCMP 1                                                                125070
7 ALTER  3                                                                126068
6 RUNOFF 1 015        6 1.71          80.          0.30          1    1   1 127089
6 RUNOFF 1 014        6 1.16          79.          0.25          1    1   1 128089
6 RUNOFF 1 016        6 2.24          82.          0.59          1    1   1 129089
6 RUNOFF 1 013        6 1.35          83.          0.21          1    1   1 130089
6 RUNOFF 1 012        6 1.43          86.          0.45          1    1   1 131089
6 RUNOFF 1 011        6 0.63          82.          0.31          1    1   1 132089
6 RUNOFF 1 017        6 0.21          79.          0.23          1    1   1 133089
6 RUNOFF 1 002        6 5.87          75.          2.02          1    1   1 134089
6 RUNOFF 1 005        6 5.52          81.          1.18          1    1   1 135089
6 RUNOFF 1 004        6 13.11         81.          2.17          1    1   1 136089
6 RUNOFF 1 006        6 7.17          79.          1.80          1    1   1 137089
6 RUNOFF 1 003        6 5.92          78.          1.41          1    1   1 138089
7 LIST                                                                    139068
7 INCREM 6                  0.10                                          140068
7 COMPUT 7 015       01 0.0          5.78          1.0          6 2  03  08 145068
  ENDCMP 1                                                                146070
7 COMPUT 7 015       01 0.0          10.96         1.0          6 2  03  09 147068
  ENDCMP 1                                                                148070
7 INCREM 6                  0.10                                          149068
7 INCREM 6                  0.10                                          156068
7 COMPUT 7 015       01 0.0          2.45          1.0          2 2  03  10 157068
  ENDCMP 1                                                                158070
7 COMPUT 7 015       01 0.0          2.99          1.0          2 2  03  11 159068
  ENDCMP 1                                                                160070
7 COMPUT 7 015       01 0.0          3.85          1.0          2 2  03  12 161068
  ENDCMP 1                                                                162070
  ENDJOB 2                                                                163070
```

ALT #3

FICHE # =
(DES/TR20.WWP2)

```
JOB TR-20                                   FULL                SUMMARY                    1003
TITLE     WEEKS WASH-POWERLINE DAM ANALYSIS, SEPT 1985                                     2003
 3 STRUCT      01                                                                          3082
 8                        1568.2          0.0             175.                           4083
 9 ENDTBL                                                                                 17084
 3 STRUCT      07                                                                         18082
 8                        1967.0          0.0             0.0                            19083
 8                        1967.5          16.             16.2                           20083
 8                        1968.0          46.             32.5                           21083
 8                        1968.5          87.             49.7                           22083
 8                        1969.0          88.             65.0                           23083
 8                        1970.5          91.             129.3                          24083
 8                        1972.1          94.             212.9                          25083
 8                        1975.2          100.            421.9                          26083
 8                        1976.7          103.            545.9                          27083
 8                        1977.8          105.            641.5                          28083
 8                        1978.3          106.            686.7                          29083
 8                        1978.8          106.            734.3                          30083
 8                        1979.3          107.            789.7                          31083
 8                        1979.8          108.            830.1                          32083
 8                        1984.5          1293.           1357.7                         33083
 8                        1987.6          5512.           1774.1                         34083
 8                        1990.7          12053.          2243.6                         35083
 8                        1996.7          31953.          3357.8                         36083
 8                        2000.0          45388.          4029.1                         37083
 9 ENDTBL                                                                                 38084
 5 RAINFL 3               2.40                                                          38.1076
 8          0.0           .0021           .0041           .0062           .0082          38.2077
 8          .0103         .0126           .0148           .0171           .0193          38.3077
 8          .0216         .0241           .0266           .0292           .0317          38.4077
 8          .0342         .0370           .0399           .0427           .0456          38.5077
 8          .0484         .0517           .0549           .0582           .0614          38.6077
 8          .0647         .0686           .0724           .0763           .0801          38.7077
 8          .0840         .0888           .0936           .0984           .1032          38.8077
 8          .1080         .1145           .1210           .1274           .1339          38.9077
 8          .1404         .1509           .1613           .1718           .1822          38.10077
 8          .1927         .2068           .2244           .2481           .2864          38.11077
 8          .6960         .7549           .7840           .8041           .8198          38.12077
 8          .8327         .8406           .8486           .8565           .8645          38.13077
 8          .8724         .8779           .8834           .8889           .8944          38.14077
 8          .8999         .9042           .9085           .9127           .9170          38.15077
 8          .9213         .9248           .9284           .9319           .9355          38.16077
 8          .9390         .9420           .9450           .9481           .9511          38.17077
 8          .9541         .9568           .9594           .9621           .9647          38.18077
 8          .9674         .9698           .9722           .9745           .9769          38.19077
 8          .9793         .9815           .9836           .9858           .9879          38.20077
 8          .9901         .9926           .9951           .9975           1.000          38.21077
 9 ENDTBL                                                                                 38.22078
 5 RAINFL 4               2.40                                                          38.23076
 8          0.0           .0020           .0041           .0061           .0082          38.24077
 8          .0102         .0125           .0147           .0170           .0192          38.25077
 8          .0215         .0240           .0265           .0290           .0314          38.26077
 8          .0339         .0367           .0395           .0424           .0452          38.27077
 8          .0480         .0512           .0544           .0577           .0609          38.28077
 8          .0641         .0679           .0718           .0756           .0795          38.29077
 8          .0833         .0881           .0929           .0976           .1024          38.30077
 8          .1072         .1136           .1200           .1265           .1329          38.31077
 8          .1393         .1497           .1601           .1706           .1810          37.32077
 8          .1914         .2055           .2230           .2466           .2848          38.33077
 8          .6776         .7564           .7854           .8054           .8210          38.34077
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8            .8339        .8418        .8497        .8576        .8655          38.35077
8            .8734        .8789        .8843        .8898        .8952          38.36077
8            .9007        .9049        .9092        .9134        .9177          38.37077
8            .9219        .9254        .9289        .9325        .9360          38.38077
8            .9395        .9425        .9455        .9485        .9515          38.39077
8            .9545        .9571        .9598        .9624        .9651          38.40077
8            .9677        .9701        .9724        .9748        .9771          38.41077
8            .9795        .9816        .9838        .9859        .9891          38.42077
8            .9902        .9927        .9951        .9975        1.000          38.43077
9 ENDTBL                                                                       38.44078
5 RAINFL 5                0.25                                                    39076
8            0.0          .0072        .0152        .0251        .0358             40077
8            .0538        .0717        .0950        .1219        .4910             41077
8            .6398        .7043        .7661        .8109        .8486             42077
8            .8799        .9041        .9274        .9453        .9606             43077
8            .9713        .9821        .9892        .9955        1.0000            44077
9 ENDTBL                                                                           45078
5 RAINFL 6                0.50                                                    46076
8            0.0          .0078        .0150        .0214        .0286             47077
8            .0371        .0457        .0550        .0643        .0750             48077
8            .0864        .0971        .1071        .1250        .1514             49077
8            .1821        .2250        .3214        .4143        .4964             50077
8            .5714        .6421        .6893        .7214        .7500             51077
8            .7750        .7957        .8143        .8314        .8486             52077
8            .8621        .8757        .8879        .9000        .9093             53077
8            .9193        .9286        .9364        .9443        .9514             54077
8            .9593        .9657        .9714        .9786        .9829             55077
8            .9879        .9921        .9964        1.0000       1.0000            56077
9 ENDTBL                                                                           57078
6 RUNOFF  1 015        6 1.72       100.         0.30         1      1   1         58089
6 REACH   3 114   6    5 2700.      0.80                                           59089
6 RUNOFF  1 014        6 1.16       100.         0.25         1      1   1         60089
6 ADDHYD  4 014   5 6  7                                      1      1   1         61089
6 SAVMOV  5 014   7    5                                                          62089
6 RUNOFF  1 016        6 2.24       100.         0.59         1      1   1         63089
6 ADDHYD  4 114   5 6  7                                      1      1   1         64089
6 REACH   3 113   7    5 4300.      0.80                                           65089
6 RUNOFF  1 013        6 1.35       100.         0.21         1      1   1         66089
6 ADDHYD  4 013   5 6  7                                      1      1   1         67089
6 REACH   3 112   7    5 4600.      0.80                                           68089
6 RUNOFF  1 012        6 1.43       100.         0.45         1      1   1         69089
6 ADDHYD  4 012   5 6  7                                      1      1   1         70089
6 REACH   3 111   7    5 1800.      0.80                                           71089
6 RUNOFF  1 011        6 0.63       100.         0.31         1      1   1         72089
6 ADDHYD  4 111   5 6  7                                      1      1   1         73089
6 SAVMOV  5 111   7    5                                                          74089
6 RUNOFF  1 017        6 0.21       100.         0.23         1      1   1         75089
6 ADDHYD  4 117   5 6  7                                      1  1   1   1         76089
6 SAVMOV  5 117   7    6                                                          77089
6 RESVOR  2     07 6    7 1967.                               1  1   1   1         78089
6 REACH   3 102   7    5 38600.     0.80                      1      1   1         79089
6 RUNOFF  1 002        6 5.87       100.         2.02         1      1   1         80089
6 ADDHYD  4 102   5 6  1                                      1  1   1   1         81089
6 RUNOFF  1 005        6 5.52       100.         1.18         1      1   1         82089
6 REACH   3 104   6    5 12500.     0.78                                           83089
6 RUNOFF  1 004        6 13.11      100.         2.17         1      1   1         84089
6 ADDHYD  4 104   5 6  7                                      1      1   1         85089
6 SAVMOV  5 104   7    5                                                          86089
6 RUNOFF  1 006        6 7.17       100.         1.80         1      1   1         87089
6 ADDHYD  4 106   5 6  7                                      1  1   1   1         88089
```

(DEC/TR20. WWPL)

WEEKS WASH POWERLINE DAM ANALYSIS

VOID ON
To Enter the
Main Time Increment
Set to Zero

1. ALT #1, STORM #1: PSH For Powerline Dam, Stellar Drainage (DA=37.59 M.)
2. ALT #2, STORM #1: PSH TOT. Powerline D.A. = 40.33 M. w/ Weeks Wash Dam
3. ALT #1, STORM #2: 6-HOUR PSH For Powerline Incremental DA = 2.74 M.
4. ALT #1, STORM #3: 6-HOUR PSH " " " "
5. ALT #2, STORM #4: 6-HOUR PSH For TOT Powerline DA = 40.33 M. w/ Weeks Dam
6. ALT #2, STORM #5: 6-HOUR PSH " " " "

EXEC VE CONTROL CARD 97 OPERATION LIST

LISTING OF DATA IN CORE

0 -POWERLINE DAM ANALYSIS, SEPT 1985

		VELOCITY INCREMENT			
1 CTABLE		.2000			
8	.0000	.0800	.1800	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6900	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300
9 ENDTBL					

STRUCT NO.

3 STRUCT 1

	ELEVATION	DISCHARGE	STORAGE
8	1568.2000	.0000	175.0000
8	1570.1000	92.0000	380.0000
8	1572.1000	106.0000	700.0000
8	1574.1000	119.0000	1100.0000
8	1576.1000	130.0000	1600.0000
8	1578.1000	141.0000	2175.0000
8	1580.1000	150.0000	2875.0000
8	1582.1000	159.0000	3675.0000
8	1583.3000	165.0000	4199.9999
8	1584.1000	668.0000	4599.9999
8	1586.1000	4426.0000	5524.9999
8	1588.1000	11084.0000	6724.9999
8	1590.1000	20092.0000	7924.9999
9 ENDTBL			

STRUCT NO.

3 STRUCT 7

	ELEVATION	DISCHARGE	STORAGE
8	1967.0000	.0000	.0000
8	1967.5000	16.0000	16.2000
8	1968.0000	46.0000	32.5000
8	1968.5000	87.0000	49.7000
8	1969.0000	88.0000	65.0000
8	1970.5000	91.0000	129.3000
8	1972.1000	94.0000	212.9000
8	1975.2000	100.0000	421.9000
8	1976.7000	103.0000	545.9000
8	1977.8000	105.0000	641.5000
8	1978.3000	106.0000	686.7000
8	1978.8000	106.0000	734.3000
8	1979.3000	107.0000	789.7000
8	1979.8000	108.0000	830.1000
8	1984.5000	1293.0000	1357.7000
8	1987.6000	5512.0000	1774.1000
8	1990.7000	12053.0000	2243.6000
8	1996.7000	31953.0000	3357.8000
8	2000.0000	45388.0000	4029.1000

9 ENDTBL

TIME INCREMENT

4 DIMHYD

8	.0000	.0300	.1000	.1900	.3100
8	.4700	.6600	.8200	.9300	.9900
8	1.0000	.9900	.9300	.8600	.7800
8	.6800	.5600	.4600	.3900	.3300
8	.2800	.2410	.2070	.1740	.1470
8	.1260	.1070	.0910	.0770	.0660
8	.0550	.0470	.0400	.0340	.0290
8	.0250	.0210	.0180	.0150	.0130
8	.0110	.0090	.0080	.0070	.0060
8	.0050	.0040	.0030	.0020	.0010
8	.0000	.0000	.0000	.0000	.0000

9 ENDTBL

COMPUTED PEAK K FACTOR = 484.00

TIME INCREMENT

5 RAINFL 1 .5000

8	.0000	.0080	.0170	.0260	.0350
8	.0450	.0550	.0650	.0760	.0870
8	.0990	.1120	.1250	.1400	.1560
8	.1740	.1940	.2190	.2540	.3030
8	.5150	.5830	.6240	.6540	.6820
8	.7050	.7270	.7480	.7670	.7840
8	.8000	.8160	.8300	.8440	.8570
8	.8700	.8820	.8930	.9050	.9160
8	.9260	.9360	.9460	.9550	.9650
8	.9740	.9830	.9920	1.0000	1.0000

```
                    TIME INCREMENT
   INFL 2                .5000

8                .0000       .0050       .0110       .0160       .0220
8                .0280       .0350       .0410       .0480       .0560
8                .0630       .0710       .0800       .0890       .0980
8                .1090       .1200       .1330       .1470       .1630
8                .1810       .2040       .2350       .2930       .6630
8                .7350       .7720       .7990       .8200       .8380
8                .8540       .8680       .8800       .8910       .9020
8                .9120       .9210       .9290       .9370       .9450
8                .9520       .9590       .9650       .9720       .9780
8                .9840       .9890       .9950      1.0000      1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 3            2.4000

8                .0000       .0021       .0041       .0062       .0082
8                .0103       .0126       .0148       .0171       .0193
8                .0216       .0241       .0266       .0292       .0317
8                .0342       .0370       .0399       .0427       .0456
8                .0484       .0517       .0549       .0582       .0614
8                .0647       .0686       .0724       .0763       .0801
8                .0840       .0888       .0936       .0984       .1032
8                .1080       .1145       .1210       .1274       .1339
8                .1404       .1509       .1613       .1718       .1822
8                .1927       .2068       .2244       .2481       .2864
8                .6960       .7549       .7840       .8041       .8198
8                .8327       .8406       .8486       .8565       .8645
8                .8724       .8779       .8834       .8889       .8944
8                .8999       .9042       .9085       .9127       .9170
8                .9213       .9248       .9284       .9319       .9355
8                .9390       .9420       .9450       .9481       .9511
8                .9541       .9568       .9594       .9621       .9647
8                .9674       .9698       .9722       .9745       .9769
8                .9793       .9815       .9836       .9858       .9879
8                .9901       .9926       .9951       .9975      1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 4            2.4000

8                .0000       .0020       .0041       .0061       .0082
8                .0102       .0125       .0147       .0170       .0192
8                .0215       .0240       .0265       .0290       .0314
8                .0339       .0367       .0395       .0424       .0452
8                .0480       .0512       .0544       .0577       .0609
8                .0641       .0679       .0718       .0756       .0795
8                .0833       .0881       .0929       .0976       .1024
8                .1072       .1136       .1200       .1265       .1329
8                .1393       .1497       .1601       .1706       .1810
```

```
8                .1914          .2055          .2230          .2466          .2848
8                .6776          .7564          .7654          .8054          .8210
8                .8339          .8418          .8497          .8576          .8655
8                .8734          .8789          .8843          .8898          .8952
8                .9007          .9049          .9092          .9134          .9177
8                .9219          .9254          .9289          .9325          .9360
8                .9395          .9425          .9455          .9485          .9515
8                .9545          .9571          .9598          .9624          .9651
8                .9677          .9701          .9724          .9748          .9771
8                .9795          .9816          .9838          .9859          .9891
8                .9902          .9927          .9951          .9975         1.0000
9 ENDTBL

                      TIME INCREMENT
5 RAINFL 5                      .2500

8                .0000          .0072          .0152          .0251          .0358
8                .0538          .0717          .0950          .1219          .4910
8                .6398          .7043          .7661          .8109          .8486
8                .8799          .9041          .9274          .9453          .9606
8                .9713          .9821          .9892          .9955         1.0000
9 ENDTBL

                      TIME INCREMENT
5 RAINFL 6                      .5000

8                .0000          .0078          .0150          .0214          .0286
8                .0371          .0457          .0550          .0643          .0750
8                .0864          .0971          .1071          .1250          .1514
8                .1821          .2250          .3214          .4143          .4964
8                .5714          .6421          .6893          .7214          .7500
8                .7750          .7957          .8143          .8314          .8486
8                .8621          .8757          .8879          .9000          .9093
8                .9193          .9286          .9364          .9443          .9514
8                .9593          .9657          .9714          .9786          .9829
8                .9879          .9921          .9964         1.0000         1.0000
9 ENDTBL
```

STANDARD CONTROL INSTRUCTIONS

```
6 RUNOFF 1  15        6      1.7200    100.0000      .30001 0 0 1 0 1
6 REACH  3 114    6   5   2700.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  14        6      1.1600    100.0000      .25001 0 0 1 0 1
6 ADDHYD 4  14    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5  14    7   5
6 RUNOFF 1  16        6      2.2400    100.0000      .59001 0 0 1 0 1
6 ADDHYD 4 114    5 6 7                                  1 0 0 1 0 1
6 REACH  3 113    7   5   4300.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  13        6      1.3500    100.0000      .21001 0 0 1 0 1
6 ADDHYD 4  13    5 6 7                                  1 0 0 1 0 1
6 REACH  3 112    7   5   4600.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  12        6      1.4300    100.0000      .45001 0 0 1 0 1
6 ADDHYD 4  12    5 6 7                                  1 0 0 1 0 1
6 REACH  3 111    7   5   1800.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  11        6       .6300    100.0000      .31001 0 0 1 0 1
6 ADDHYD 4 111    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5 111    7   5
6 RUNOFF 1  17        6       .2100    100.0000      .23001 0 0 1 0 1
6 ADDHYD 4 117    5 6 7                                  1 1 0 1 0 1
6 SAVMOV 5 117    7   6
6 RESVOR 2      7 6   7   1967.0000                      1 1 0 1 0 1
6 REACH  3 102    7   5  38600.0000       .8000      .00001 0 0 1 0 1
6 RUNOFF 1   2        6      5.9700    100.0000     2.02001 0 0 1 0 1
6 ADDHYD 4 102    5 6 1                                  1 1 0 1 0 1
6 RUNOFF 1   5        6      5.5200    100.0000     1.18001 0 0 1 0 1
6 REACH  3 104    6   5  12500.0000       .7800      .00000 0 0 0 0 0
6 RUNOFF 1   4        6     13.1100    100.0000     2.17001 0 0 1 0 1
6 ADDHYD 4 104    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5 104    7   5
6 RUNOFF 1   6        6      7.1700    100.0000     1.80001 0 0 1 0 1
6 ADDHYD 4 106    5 6 7                                  1 1 0 1 0 1
6 REACH  3   3    7   5   4000.0000       .7500      .00001 0 0 1 0 1
6 RUNOFF 1   3        6      5.9200    100.0000     1.41001 0 0 1 0 1
6 ADDHYD 4   3    5 6 7                                  1 0 0 1 0 1
6 REACH  3 102    7   5   5500.0000       .7500      .00001 1 0 1 0 1
6 SAVMOV 5 102    1   6
6 ADDHYD 4      1 5 6 4                                  1 1 0 1 0 1
6 RESVOR 2      1 4   7   1568.2000                      1 1 0 1 0 1
  ENDATA
```

END OF LISTING

EXEC[illegible]IVE CONTROL CARD 98 OPERATION INCREM, MA[illegible] TIME INCREMENT= .10
EXEC[illegible]E CONTROL CARD 99 OPERATION COMPUT, FR[illegible]XSECTN/STRUCT 2/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 2.00 RAIN[illegible]ATION= 1.00 RAIN TABLE NO.= 3 SOIL CONDITI[illegible] 2
ALTERNATE NO.= 1 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.56	6.573	(RUNOFF)
15.04	7.158	(RUNOFF)
19.61	7.200	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0520 CFS-HRS= 197.13 ACRE-FT= 16.29

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.56	6.573	(NULL)
15.04	7.158	(NULL)
19.61	7.200	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 5.87

TIME											
.00	DISCHG	.00	.05	.10	.16	.27	.44	.61	.79	1.10	1.41
1.00	DISCHG	1.73	2.07	2.43	2.79	3.14	3.46	3.78	4.10	4.37	4.61
2.00	DISCHG	4.86	5.08	5.23	5.39	5.54	5.65	5.75	5.84	5.93	5.99
3.00	DISCHG	6.05	6.11	6.14	6.17	6.20	6.23	6.24	6.25	6.27	6.27
4.00	DISCHG	6.28	6.28	6.29	6.29	6.29	6.29	6.29	6.30	6.30	6.30
5.00	DISCHG	6.31	6.31	6.32	6.32	6.33	6.34	6.36	6.37	6.39	6.41
6.00	DISCHG	6.42	6.44	6.46	6.47	6.49	6.50	6.52	6.53	6.54	6.55
7.00	DISCHG	6.55	6.56	6.57	6.57	6.57	6.57	6.57	6.57	6.56	6.55
8.00	DISCHG	6.55	6.53	6.52	6.51	6.49	6.47	6.46	6.44	6.43	6.42
9.00	DISCHG	6.40	6.39	6.38	6.37	6.37	6.36	6.35	6.35	6.35	6.35
10.00	DISCHG	6.35	6.35	6.36	6.37	6.37	6.39	6.40	6.41	6.43	6.44
11.00	DISCHG	6.46	6.48	6.49	6.50	6.52	6.53	6.54	6.55	6.56	6.56
12.00	DISCHG	6.57	6.58	6.59	6.60	6.62	6.63	6.66	6.68	6.70	6.74
13.00	DISCHG	6.77	6.80	6.84	6.87	6.90	6.94	6.97	7.00	7.02	7.05
14.00	DISCHG	7.07	7.09	7.11	7.12	7.14	7.15	7.16	7.16	7.16	7.17
15.00	DISCHG	7.16	7.16	7.15	7.14	7.13	7.12	7.11	7.09	7.08	7.07
16.00	DISCHG	7.05	7.04	7.03	7.02	7.01	7.00	6.99	6.99	6.98	6.98
17.00	DISCHG	6.98	6.98	6.98	6.98	6.99	7.00	7.01	7.02	7.03	7.05
18.00	DISCHG	7.06	7.07	7.09	7.11	7.12	7.13	7.14	7.16	7.17	7.18
19.00	DISCHG	7.18	7.19	7.19	7.20	7.20	7.20	7.20	7.20	7.19	7.18
20.00	DISCHG	7.17	7.16	7.15	7.13	7.12	7.10	7.09	7.07	7.06	7.05
21.00	DISCHG	7.04	7.02	7.01	7.00	7.00	6.99	6.98	6.98	6.98	6.98
22.00	DISCHG	6.98	6.98	6.99	7.00	7.01	7.02	7.03	7.05	7.06	7.08
23.00	DISCHG	7.09	7.11	7.12	7.13	7.14	7.16	7.17	7.18	7.18	7.19
24.00	DISCHG	7.20	7.21	7.22	7.23	7.25	7.26	7.28	7.31	7.34	7.37
25.00	DISCHG	7.40	7.43	7.47	7.50	7.53	7.57	7.60	7.63	7.65	7.68
26.00	DISCHG	7.70	7.72	7.74	7.76	7.77	7.78	7.79	7.80	7.81	7.82
27.00	DISCHG	7.83	7.83	7.84	7.84	7.85	7.85	7.85	7.86	7.86	7.86
28.00	DISCHG	7.86	7.86	7.87	7.87	7.87	7.87	7.87	7.87	7.87	7.88
29.00	DISCHG	7.88	7.88	7.89	7.90	7.90	7.92	7.93	7.94	7.96	7.98

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0520 CFS-HRS= 197.13 ACRE-FT= 16.29

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.75	6.134	(RUNOFF)
7.22	6.215	(RUNOFF)
14.48	6.801	(RUNOFF)
19.30	6.806	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0534 CFS-HRS= 190.41 ACRE-FT= 15.74

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.72	14.658	(RUNOFF)
14.92	15.976	(RUNOFF)
19.65	16.070	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0518 CFS-HRS= 438.14 ACRE-FT= 36.21

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.72	20.872	(NULL)
14.80	22.776	(NULL)
19.66	22.876	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0519 CFS-HRS= 624.25 ACRE-FT= 51.59

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.59	8.033	(RUNOFF)
14.78	8.779	(RUNOFF)
19.38	8.812	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0524 CFS-HRS= 242.49 ACRE-FT= 20.04

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.45	28.915	(NULL)
14.88	31.547	(NULL)
19.63	31.678	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME		.00	.18	.36	.54	.93	1.53	2.15	2.99	4.11	5.46
.00	DISCHG										
1.00	DISCHG	6.95	8.54	10.28	12.02	13.74	15.43	16.94	18.35	19.69	20.84
2.00	DISCHG	21.78	22.68	23.52	24.16	24.71	25.23	25.70	26.05	26.37	26.65
3.00	DISCHG	26.90	27.09	27.24	27.38	27.48	27.54	27.59	27.63	27.65	27.66
4.00	DISCHG	27.67	27.68	27.67	27.67	27.68	27.68	27.68	27.68	27.69	27.69
5.00	DISCHG	27.71	27.73	27.74	27.77	27.81	27.85	27.90	27.97	28.04	28.12
6.00	DISCHG	28.20	28.28	28.36	28.44	28.51	28.58	28.64	28.70	28.75	28.79
7.00	DISCHG	28.83	28.86	28.88	28.90	28.91	28.91	28.91	28.90	28.88	28.84
8.00	DISCHG	28.80	28.75	28.69	28.62	28.55	28.47	28.40	28.32	28.25	28.19
9.00	DISCHG	28.13	28.08	28.03	27.99	27.96	27.93	27.90	27.89	27.88	27.87
10.00	DISCHG	27.87	27.88	27.91	27.94	27.98	28.03	28.09	28.16	28.24	28.31
11.00	DISCHG	28.39	28.46	28.53	28.59	28.65	28.71	28.75	28.79	28.83	28.86
12.00	DISCHG	28.90	28.93	28.97	29.01	29.07	29.14	29.20	29.30	29.42	29.55
13.00	DISCHG	29.69	29.85	30.02	30.19	30.35	30.51	30.66	30.80	30.93	31.04
14.00	DISCHG	31.13	31.22	31.30	31.36	31.41	31.47	31.49	31.52	31.54	31.55
15.00	DISCHG	31.53	31.52	31.49	31.45	31.39	31.33	31.27	31.20	31.13	31.06
16.00	DISCHG	30.99	30.93	30.88	30.83	30.78	30.75	30.71	30.68	30.66	30.65
17.00	DISCHG	30.64	30.63	30.64	30.65	30.67	30.70	30.74	30.80	30.86	30.93
18.00	DISCHG	31.00	31.08	31.16	31.23	31.30	31.37	31.43	31.47	31.52	31.56
19.00	DISCHG	31.60	31.63	31.65	31.67	31.68	31.68	31.68	31.67	31.65	31.61
20.00	DISCHG	31.57	31.53	31.46	31.39	31.32	31.24	31.17	31.09	31.02	30.96
21.00	DISCHG	30.90	30.85	30.80	30.76	30.73	30.70	30.67	30.66	30.64	30.63
22.00	DISCHG	30.64	30.65	30.67	30.70	30.75	30.80	30.86	30.93	31.01	31.08
23.00	DISCHG	31.16	31.23	31.30	31.37	31.43	31.48	31.52	31.56	31.60	31.64
24.00	DISCHG	31.67	31.70	31.74	31.79	31.84	31.91	31.98	32.08	32.20	32.32
25.00	DISCHG	32.47	32.63	32.79	32.96	33.12	33.28	33.43	33.57	33.69	33.80
26.00	DISCHG	33.91	33.99	34.06	34.13	34.19	34.24	34.29	34.33	34.36	34.39
27.00	DISCHG	34.42	34.44	34.46	34.48	34.50	34.51	34.53	34.54	34.55	34.56
28.00	DISCHG	34.56	34.57	34.58	34.58	34.59	34.59	34.60	34.60	34.61	34.62
29.00	DISCHG	34.62	34.65	34.67	34.69	34.72	34.77	34.83	34.89	34.95	35.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0521 CFS-HRS= 866.74 ACRE-FT= 71.63

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.68	28.911	(NULL)
15.10	31.539	(NULL)
19.73	31.678	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0516 CFS-HRS= 859.26 ACRE-FT= 71.01

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 100.0 T. OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.00	6.500	(RUNOFF)
7.40	6.653	(RUNOFF)
14.59	7.277	(RUNOFF)
19.20	7.293	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0531 CFS-HRS= 202.72 ACRE-FT= 16.75

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.56	35.546	(NULL)
14.97	38.770	(NULL)
19.57	38.949	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0519 CFS-HRS= 1061.98 ACRE-FT= 87.76

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.86	35.540	(NULL)
15.25	38.762	(NULL)
19.85	38.941	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.03	.11	.29	.59	.99	1.60	2.41
1.00	DISCHG	3.40	4.58	5.96	7.54	9.30	11.17	13.12	15.12	17.09	19.02
2.00	DISCHG	20.83	22.52	24.08	25.49	26.74	27.85	28.83	29.68	30.41	31.05
3.00	DISCHG	31.60	32.07	32.47	32.80	33.09	33.32	33.51	33.67	33.79	33.88
4.00	DISCHG	33.94	33.99	34.02	34.04	34.05	34.05	34.06	34.06	34.05	34.05
5.00	DISCHG	34.05	34.05	34.06	34.07	34.08	34.10	34.14	34.18	34.23	34.28
6.00	DISCHG	34.35	34.43	34.51	34.60	34.69	34.78	34.88	34.97	35.05	35.14
7.00	DISCHG	35.21	35.28	35.34	35.39	35.44	35.48	35.50	35.53	35.54	35.54
8.00	DISCHG	35.53	35.50	35.47	35.43	35.37	35.31	35.24	35.16	35.08	34.99
9.00	DISCHG	34.90	34.82	34.74	34.66	34.59	34.53	34.47	34.42	34.38	34.34
10.00	DISCHG	34.31	34.29	34.28	34.28	34.29	34.31	34.34	34.38	34.44	34.50
11.00	DISCHG	34.57	34.65	34.74	34.82	34.91	35.00	35.08	35.15	35.22	35.29
12.00	DISCHG	35.34	35.40	35.44	35.49	35.53	35.58	35.63	35.70	35.78	35.87
13.00	DISCHG	35.98	36.11	36.25	36.41	36.58	36.77	36.96	37.15	37.34	37.53
14.00	DISCHG	37.70	37.86	38.02	38.15	38.27	38.38	38.48	38.56	38.62	38.68
15.00	DISCHG	38.72	38.75	38.76	38.76	38.74	38.72	38.68	38.63	38.57	38.50
16.00	DISCHG	38.42	38.34	38.26	38.18	38.11	38.03	37.97	37.91	37.85	37.81
17.00	DISCHG	37.76	37.73	37.70	37.68	37.67	37.67	37.68	37.71	37.74	37.78
18.00	DISCHG	37.84	37.90	37.97	38.05	38.14	38.23	38.31	38.40	38.48	38.56
19.00	DISCHG	38.63	38.69	38.75	38.80	38.84	38.88	38.91	38.93	38.94	38.94
20.00	DISCHG	38.93	38.91	38.89	38.83	38.78	38.72	38.65	38.57	38.48	38.40
21.00	DISCHG	38.31	38.22	38.14	38.07	38.00	37.93	37.88	37.82	37.78	37.74
22.00	DISCHG	37.71	37.69	37.68	37.68	37.69	37.71	37.74	37.78	37.84	37.90

23.00	DISCHG	37.98	38.06	38.14	38.23	38.32	38.40	38.48	38.56	38.63	38.70
24.00	DISCHG	38.75	38.80	38.85	38.90	38.94	38.99	39.04	39.11	39.19	[illegible]28
25.00	DISCHG	39.39	39.52	39.66	39.82	39.99	40.17	40.36	40.56	40.74	[illegible]93
26.00	DISCHG	41.10	41.27	41.42	41.55	41.68	41.79	41.88	41.96	42.04	[illegible]10
27.00	DISCHG	42.16	42.21	42.25	42.29	42.32	42.35	42.38	42.40	42.42	[illegible]44
28.00	DISCHG	42.45	42.47	42.48	42.49	42.50	42.51	42.51	42.52	42.53	42.53
29.00	DISCHG	42.54	42.54	42.55	42.56	42.58	42.61	42.64	42.68	42.73	42.73

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0513 CFS-HRS= 1049.43 ACRE-FT= 86.72

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.79	42.089	1569.07
15.20	45.912	1569.15
19.78	46.132	1569.15

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.05	.10	.19	.38	.73	1.19	1.78	2.70	3.82
1.00	DISCHG	5.13	6.65	8.39	10.32	12.43	14.63	16.90	19.22	21.46	23.63
2.00	DISCHG	25.69	27.60	29.31	30.88	32.28	33.49	34.58	35.53	36.34	37.04
3.00	DISCHG	37.65	38.18	38.61	38.98	39.29	39.55	39.75	39.92	40.06	40.15
4.00	DISCHG	40.22	40.27	40.31	40.33	40.34	40.35	40.35	40.35	40.35	40.35
5.00	DISCHG	40.36	40.36	40.37	40.39	40.42	40.45	40.49	40.55	40.62	40.69
6.00	DISCHG	40.77	40.87	40.97	41.07	41.18	41.29	41.39	41.50	41.59	41.68
7.00	DISCHG	41.76	41.84	41.90	41.96	42.01	42.05	42.08	42.09	42.10	42.09
8.00	DISCHG	42.07	42.04	41.99	41.93	41.86	41.78	41.70	41.60	41.51	41.41
9.00	DISCHG	41.31	41.21	41.12	41.03	40.96	40.89	40.82	40.77	40.72	40.69
10.00	DISCHG	40.66	40.64	40.64	40.64	40.66	40.69	40.74	40.80	40.87	40.94
11.00	DISCHG	41.03	41.13	41.23	41.33	41.43	41.52	41.61	41.70	41.78	41.85
12.00	DISCHG	41.92	41.97	42.03	42.09	42.15	42.21	42.29	42.38	42.48	42.61
13.00	DISCHG	42.75	42.91	43.09	43.28	43.49	43.71	43.92	44.15	44.37	44.58
14.00	DISCHG	44.77	44.96	45.13	45.28	45.41	45.53	45.63	45.72	45.79	45.85
15.00	DISCHG	45.88	45.90	45.91	45.90	45.88	45.84	45.79	45.72	45.65	45.56
16.00	DISCHG	45.47	45.38	45.29	45.20	45.11	45.03	44.96	44.89	44.84	44.78
17.00	DISCHG	44.74	44.71	44.68	44.66	44.66	44.67	44.69	44.72	44.77	44.83
18.00	DISCHG	44.90	44.98	45.06	45.16	45.26	45.36	45.46	45.56	45.65	45.73
19.00	DISCHG	45.81	45.88	45.94	46.00	46.05	46.08	46.11	46.13	46.13	46.12
20.00	DISCHG	46.10	46.07	46.03	45.97	45.90	45.82	45.74	45.64	45.54	45.44
21.00	DISCHG	45.34	45.25	45.16	45.07	44.99	44.92	44.86	44.81	44.76	44.72
22.00	DISCHG	44.69	44.68	44.67	44.68	44.70	44.73	44.77	44.83	44.90	44.98
23.00	DISCHG	45.07	45.16	45.26	45.36	45.46	45.56	45.65	45.74	45.82	45.89
24.00	DISCHG	45.95	46.01	46.07	46.13	46.19	46.25	46.32	46.42	46.53	46.65
25.00	DISCHG	46.79	46.95	47.13	47.32	47.53	47.74	47.96	48.18	48.40	48.61
26.00	DISCHG	48.81	48.99	49.16	49.31	49.45	49.57	49.67	49.77	49.85	49.92
27.00	DISCHG	49.98	50.04	50.09	50.13	50.17	50.20	50.23	50.25	50.28	50.30
28.00	DISCHG	50.31	50.33	50.34	50.36	50.37	50.38	50.38	50.39	50.40	50.41
29.00	DISCHG	50.42	50.43	50.44	50.46	50.49	50.52	50.57	50.62	50.69	50.70

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0514 CFS-HRS= 1246.55 ACRE-FT= 103.02

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS
NO PEAK FOUND, MAXIMUM DISCHARGE,= 29.299 CFS.

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.01	.02	.03
1.00	DISCHG	.05	.07	.10	.13	.17	.22	.28	.35	.42	.50
2.00	DISCHG	.59	.69	.79	.90	1.01	1.13	1.25	1.38	1.51	1.64
3.00	DISCHG	1.77	1.90	2.04	2.17	2.31	2.45	2.59	2.72	2.86	3.00
4.00	DISCHG	3.14	3.28	3.41	3.55	3.68	3.82	3.96	4.09	4.22	4.36
5.00	DISCHG	4.49	4.62	4.76	4.89	5.02	5.15	5.28	5.41	5.54	5.67
6.00	DISCHG	5.80	5.93	6.06	6.19	6.32	6.45	6.58	6.71	6.84	6.97
7.00	DISCHG	7.09	7.22	7.35	7.48	7.61	7.73	7.86	7.99	8.11	8.24
8.00	DISCHG	8.37	8.49	8.61	8.74	8.86	8.98	9.10	9.22	9.34	9.46
9.00	DISCHG	9.58	9.70	9.81	9.93	10.05	10.16	10.27	10.39	10.50	10.61
10.00	DISCHG	10.72	10.83	10.94	11.05	11.16	11.27	11.38	11.49	11.60	11.71
11.00	DISCHG	11.82	11.92	12.03	12.14	12.25	12.36	12.46	12.57	12.68	12.79
12.00	DISCHG	12.90	13.00	13.11	13.22	13.33	13.43	13.54	13.65	13.75	13.86
13.00	DISCHG	13.97	14.07	14.18	14.29	14.39	14.50	14.61	14.72	14.83	14.94
14.00	DISCHG	15.05	15.16	15.27	15.38	15.49	15.60	15.71	15.82	15.94	16.05
15.00	DISCHG	16.16	16.27	16.38	16.49	16.59	16.70	16.81	16.92	17.02	17.13
16.00	DISCHG	17.24	17.34	17.44	17.55	17.65	17.75	17.85	17.95	18.05	18.15
17.00	DISCHG	18.25	18.35	18.44	18.54	18.64	18.73	18.83	18.93	19.02	19.12
18.00	DISCHG	19.21	19.31	19.40	19.50	19.59	19.69	19.78	19.88	19.97	20.07
19.00	DISCHG	20.16	20.26	20.35	20.45	20.54	20.64	20.73	20.83	20.92	21.01
20.00	DISCHG	21.11	21.20	21.29	21.38	21.47	21.56	21.65	21.74	21.83	21.92
21.00	DISCHG	22.00	22.09	22.18	22.26	22.35	22.43	22.51	22.60	22.68	22.76
22.00	DISCHG	22.84	22.92	23.00	23.08	23.16	23.24	23.32	23.40	23.48	23.56
23.00	DISCHG	23.64	23.72	23.80	23.88	23.96	24.04	24.12	24.20	24.28	24.36
24.00	DISCHG	24.44	24.52	24.60	24.68	24.76	24.83	24.91	24.99	25.07	25.15
25.00	DISCHG	25.23	25.31	25.39	25.47	25.56	25.64	25.72	25.80	25.89	25.97
26.00	DISCHG	26.05	26.14	26.22	26.31	26.39	26.48	26.56	26.65	26.74	26.82
27.00	DISCHG	26.91	26.99	27.08	27.16	27.25	27.33	27.42	27.50	27.59	27.67
28.00	DISCHG	27.75	27.84	27.92	28.00	28.09	28.17	28.25	28.33	28.42	28.50
29.00	DISCHG	28.58	28.66	28.74	28.82	28.90	28.98	29.06	29.14	29.22	29.30

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0188 CFS-HRS= 456.59 ACRE-FT= 37.73

ENDCMP

EXEC[illegible]VE CONTROL CARD 101 OPERATION COMPUT. FR[illegible] XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 2.07 RAIN[illegible]RATION= 1.00 RAIN TABLE NO.= 4 SOIL CONDIT[illegible] 2
ALTERNATE NO.= 2 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.72 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.74	2.008	(RUNOFF)
9.54	2.008	(RUNOFF)
14.35	2.199	(RUNOFF)
19.14	2.199	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0566 CFS-HRS= 62.83 ACRE-FT= 5.19

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.75	1.355	(RUNOFF)
9.55	1.355	(RUNOFF)
14.35	1.484	(RUNOFF)
19.15	1.484	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0567 CFS-HRS= 42.44 ACRE-FT= 3.51

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.75	3.362	(NULL)
9.55	3.362	(NULL)
14.35	3.682	(NULL)
19.15	3.682	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0565 CFS-HRS= 105.01 ACRE-FT= 8.68

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.79	2.613	(RUNOFF)

```
          9.60                    2.613                    (RUNOFF)
         14.39                    2.862                    (RUNOFF)
         19.19                    2.862                    (RUNOFF)

     TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0561     CFS-HRS=      81.10     ACRE-FT=      6.70


SUBROUTINE ADDHYD    CROSS SECTION 114
     INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

     PEAK TIMES              PEAK DISCHARGES              PEAK ELEVATIONS
         4.74                    5.976                    (NULL)
         9.55                    5.976                    (NULL)
        14.34                    6.544                    (NULL)
        19.15                    6.544                    (NULL)

     TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0563     CFS-HRS=     186.11     ACRE-FT=     15.38


SUBROUTINE REACH     CROSS SECTION 113
     LENGTH=   4300.00     INPUT COEFFICIENT=   .8000     INPUT ROUTINGS=   .00

     AVERAGE WATER VELOCITY=   6.800     AVERAGE ROUTING COEFF=  .8000     NUMBER OF ROUTINGS=  1.41


SUBROUTINE RUNOFF    CROSS SECTION  13
     AREA=   1.35     INPUT RUNOFF CURVE= 100.0     TIME OF CONCENTRATION=   .21

     PEAK TIMES              PEAK DISCHARGES              PEAK ELEVATIONS
         4.75                    1.577                    (RUNOFF)
         9.55                    1.577                    (RUNOFF)
        14.35                    1.727                    (RUNOFF)
        19.15                    1.727                    (RUNOFF)

     TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0568     CFS-HRS=      49.45     ACRE-FT=      4.09


SUBROUTINE ADDHYD    CROSS SECTION  13
     INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

     PEAK TIMES              PEAK DISCHARGES              PEAK ELEVATIONS
         4.75                    7.551                    (NULL)
         9.55                    7.551                    (NULL)
        14.35                    8.270                    (NULL)
        19.15                    8.270                    (NULL)

     TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .0561     CFS-HRS=     234.35     ACRE-FT=     19.37


SUBROUTINE REACH     CROSS SECTION 112
     LENGTH=   4600.00     INPUT COEFFICIENT=   .8000     INPUT ROUTINGS=   .00

     AVERAGE WATER VELOCITY=   6.800     AVERAGE ROUTING COEFF=  .8000     NUMBER OF ROUTINGS=  1.50


SUBROUTINE RUNOFF    CROSS SECTION  12
     AREA=   1.43     INPUT RUNOFF CURVE= 100.0     TIME OF CONCENTRATION=   .45
```

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.80	1.668	(RUNOFF)
9.60	1.668	(RUNOFF)
14.41	1.827	(RUNOFF)
19.20	1.827	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0563 CFS-HRS= 52.00 ACRE-FT= 4.30

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.82	9.218	(NULL)
9.62	9.217	(NULL)
14.43	10.095	(NULL)
19.22	10.095	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0558 CFS-HRS= 284.71 ACRE-FT= 23.53

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.79	.735	(RUNOFF)
9.59	.735	(RUNOFF)
14.40	.805	(RUNOFF)
19.20	.805	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0566 CFS-HRS= 23.01 ACRE-FT= 1.90

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.74	9.953	(NULL)
9.54	9.953	(NULL)
14.35	10.901	(NULL)
19.15	10.901	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0558 CFS-HRS= 306.96 ACRE-FT= 25.37

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.76	.245	(RUNOFF)
9.57	.245	(RUNOFF)
14.36	.269	(RUNOFF)
19.16	.269	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0567 CFS-HRS= 7.69 ACRE-FT= .64

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.75	10.198	(NULL)
9.54	10.198	(NULL)
14.35	11.169	(NULL)
19.15	11.169	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.15	.67	1.47	2.52	3.68	4.89	6.11	7.20	8.06
1.00	DISCHG	8.66	9.06	9.30	9.45	9.55	9.61	9.64	9.67	9.68	9.69
2.00	DISCHG	9.70	9.71	9.71	9.71	9.71	9.72	9.75	9.79	9.84	9.90
3.00	DISCHG	9.96	10.02	10.07	10.11	10.14	10.16	10.18	10.18	10.19	10.19
4.00	DISCHG	10.19	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.19
5.00	DISCHG	10.16	10.12	10.07	10.01	9.95	9.89	9.84	9.80	9.77	9.75
6.00	DISCHG	9.73	9.73	9.72	9.72	9.72	9.71	9.71	9.71	9.71	9.71
7.00	DISCHG	9.71	9.71	9.71	9.72	9.75	9.79	9.84	9.90	9.96	10.02
8.00	DISCHG	10.07	10.11	10.14	10.16	10.18	10.18	10.19	10.19	10.19	10.20
9.00	DISCHG	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.19	10.16	10.12
10.00	DISCHG	10.07	10.01	9.95	9.89	9.84	9.80	9.76	9.75	9.73	9.72
11.00	DISCHG	9.72	9.72	9.72	9.71	9.71	9.71	9.71	9.71	9.71	9.71
12.00	DISCHG	9.71	9.74	9.81	9.93	10.09	10.27	10.45	10.63	10.79	10.92
13.00	DISCHG	11.01	11.07	11.11	11.13	11.14	11.15	11.16	11.16	11.16	11.17
14.00	DISCHG	11.17	11.17	11.17	11.17	11.17	11.16	11.13	11.09	11.04	10.98
15.00	DISCHG	10.92	10.86	10.81	10.77	10.74	10.72	10.70	10.70	10.69	10.69
16.00	DISCHG	10.69	10.69	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.69
17.00	DISCHG	10.72	10.76	10.81	10.87	10.93	10.99	11.04	11.09	11.12	11.14
18.00	DISCHG	11.15	11.16	11.16	11.16	11.17	11.17	11.17	11.17	11.17	11.17
19.00	DISCHG	11.17	11.17	11.17	11.16	11.13	11.09	11.04	10.98	10.92	10.86
20.00	DISCHG	10.81	10.77	10.74	10.72	10.70	10.70	10.69	10.69	10.69	10.69
21.00	DISCHG	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.69	10.72	10.76
22.00	DISCHG	10.81	10.87	10.93	10.99	11.04	11.09	11.12	11.14	11.15	11.16
23.00	DISCHG	11.16	11.16	11.17	11.17	11.17	11.17	11.17	11.17	11.17	11.17
24.00	DISCHG	11.17	11.19	11.24	11.32	11.42	11.54	11.66	11.78	11.89	11.97
25.00	DISCHG	12.03	12.07	12.10	12.11	12.12	12.13	12.13	12.14	12.14	12.14
26.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14
27.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14
28.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14
29.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0558 CFS-HRS= 314.65 ACRE-FT= 26.00

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS
NO PEAK FOUND, MAXIMUM DISCHARGE,= 10.214 CFS.

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.00	.00	.01	.03	.05	.09	.13	.19	.25
1.00	DISCHG	.31	.38	.45	.53	.60	.67	.74	.82	.89	.96
2.00	DISCHG	1.03	1.10	1.17	1.24	1.31	1.38	1.45	1.51	1.58	1.65
3.00	DISCHG	1.72	1.78	1.85	1.92	1.98	2.05	2.12	2.18	2.25	2.31
4.00	DISCHG	2.38	2.44	2.50	2.56	2.63	2.69	2.75	2.81	2.87	2.93
5.00	DISCHG	2.99	3.05	3.10	3.16	3.22	3.27	3.32	3.38	3.43	3.48
6.00	DISCHG	3.53	3.58	3.63	3.68	3.73	3.78	3.83	3.87	3.92	3.97
7.00	DISCHG	4.02	4.06	4.11	4.15	4.20	4.24	4.29	4.33	4.38	4.43
8.00	DISCHG	4.47	4.52	4.56	4.61	4.65	4.70	4.74	4.79	4.83	4.87
9.00	DISCHG	4.92	4.96	5.00	5.05	5.09	5.13	5.17	5.21	5.25	5.29
10.00	DISCHG	5.33	5.37	5.41	5.44	5.48	5.51	5.55	5.58	5.62	5.65
11.00	DISCHG	5.68	5.72	5.75	5.78	5.81	5.84	5.88	5.91	5.94	5.97
12.00	DISCHG	6.00	6.03	6.06	6.09	6.12	6.16	6.19	6.23	6.26	6.30
13.00	DISCHG	6.34	6.38	6.41	6.45	6.49	6.53	6.57	6.60	6.64	6.68
14.00	DISCHG	6.71	6.75	6.79	6.82	6.86	6.89	6.93	6.96	6.99	7.03
15.00	DISCHG	7.06	7.09	7.12	7.15	7.18	7.21	7.24	7.26	7.29	7.32
16.00	DISCHG	7.35	7.37	7.40	7.43	7.45	7.48	7.51	7.53	7.56	7.58
17.00	DISCHG	7.61	7.63	7.66	7.69	7.71	7.74	7.76	7.79	7.82	7.85
18.00	DISCHG	7.87	7.90	7.93	7.95	7.98	8.00	8.03	8.05	8.08	8.11
19.00	DISCHG	8.13	8.15	8.18	8.20	8.23	8.25	8.27	8.30	8.32	8.34
20.00	DISCHG	8.36	8.38	8.40	8.42	8.44	8.45	8.47	8.49	8.51	8.53
21.00	DISCHG	8.54	8.56	8.58	8.60	8.61	8.63	8.65	8.66	8.68	8.70
22.00	DISCHG	8.71	8.73	8.75	8.77	8.78	8.80	8.82	8.84	8.86	8.88
23.00	DISCHG	8.90	8.91	8.93	8.95	8.97	8.99	9.00	9.02	9.04	9.06
24.00	DISCHG	9.07	9.09	9.11	9.13	9.14	9.16	9.18	9.20	9.22	9.25
25.00	DISCHG	9.27	9.29	9.31	9.34	9.36	9.38	9.40	9.43	9.45	9.47
26.00	DISCHG	9.49	9.51	9.54	9.56	9.58	9.60	9.62	9.64	9.66	9.68
27.00	DISCHG	9.70	9.72	9.74	9.76	9.78	9.80	9.82	9.84	9.85	9.87
28.00	DISCHG	9.89	9.91	9.93	9.95	9.96	9.98	10.00	10.02	10.03	10.05
29.00	DISCHG	10.07	10.08	10.10	10.12	10.13	10.15	10.17	10.18	10.20	10.21

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0336 CFS-HRS= 189.51 ACRE-FT= 15.66

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS
NO PEAK FOUND, MAXIMUM DISCHARGE,= 9.932 CFS.

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0308 CFS-HRS= 173.65 ACRE-FT= 14.35

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.41	6.767	(RUNOFF)

9.92	6.803	(RUNOFF)
15.10	7.386	(RUNOFF)
19.61	7.452	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0536 CFS-HRS= 203.20 ACRE-FT= 16.79

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS
NO PEAK FOUND, MAXIMUM DISCHARGE,= 18.085 CFS.

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.61

TIME											
.00	DISCHG	.00	.05	.10	.15	.27	.43	.60	.78	1.08	1.39
1.00	DISCHG	1.70	2.04	2.39	2.75	3.09	3.41	3.73	4.04	4.32	4.58
2.00	DISCHG	4.84	5.09	5.28	5.47	5.67	5.85	6.01	6.18	6.35	6.49
3.00	DISCHG	6.64	6.79	6.93	7.06	7.19	7.32	7.43	7.55	7.67	7.77
4.00	DISCHG	7.88	7.98	8.09	8.17	8.26	8.36	8.44	8.52	8.61	8.68
5.00	DISCHG	8.76	8.83	8.90	8.97	9.03	9.09	9.15	9.20	9.25	9.30
6.00	DISCHG	9.35	9.40	9.45	9.49	9.54	9.58	9.63	9.68	9.72	9.77
7.00	DISCHG	9.82	9.86	9.91	9.96	10.01	10.06	10.11	10.17	10.22	10.28
8.00	DISCHG	10.34	10.40	10.46	10.53	10.59	10.65	10.71	10.78	10.84	10.90
9.00	DISCHG	10.96	11.01	11.07	11.12	11.18	11.23	11.28	11.33	11.38	11.42
10.00	DISCHG	11.47	11.51	11.54	11.58	11.62	11.65	11.68	11.70	11.73	11.76
11.00	DISCHG	11.78	11.81	11.84	11.86	11.89	11.92	11.95	11.97	12.00	12.04
12.00	DISCHG	12.07	12.10	12.14	12.18	12.23	12.28	12.34	12.40	12.46	12.54
13.00	DISCHG	12.62	12.70	12.78	12.86	12.94	13.02	13.09	13.17	13.24	13.31
14.00	DISCHG	13.37	13.44	13.50	13.56	13.61	13.67	13.72	13.76	13.81	13.85
15.00	DISCHG	13.89	13.92	13.96	13.99	14.01	14.04	14.07	14.09	14.11	14.13
16.00	DISCHG	14.16	14.18	14.20	14.23	14.25	14.27	14.30	14.32	14.35	14.38
17.00	DISCHG	14.40	14.43	14.46	14.49	14.53	14.57	14.60	14.64	14.68	14.73
18.00	DISCHG	14.77	14.81	14.85	14.89	14.93	14.97	15.01	15.05	15.08	15.12
19.00	DISCHG	15.16	15.19	15.22	15.25	15.28	15.31	15.33	15.36	15.38	15.39
20.00	DISCHG	15.41	15.42	15.43	15.44	15.46	15.46	15.47	15.48	15.49	15.50
21.00	DISCHG	15.51	15.52	15.54	15.55	15.56	15.58	15.59	15.61	15.62	15.64
22.00	DISCHG	15.66	15.69	15.71	15.74	15.77	15.79	15.83	15.86	15.89	15.92
23.00	DISCHG	15.95	15.99	16.02	16.05	16.08	16.11	16.14	16.16	16.19	16.21
24.00	DISCHG	16.24	16.27	16.30	16.33	16.37	16.40	16.44	16.48	16.53	16.58
25.00	DISCHG	16.63	16.68	16.74	16.79	16.84	16.89	16.94	16.99	17.04	17.08
26.00	DISCHG	17.12	17.16	17.20	17.24	17.27	17.31	17.34	17.37	17.40	17.43
27.00	DISCHG	17.46	17.49	17.52	17.55	17.57	17.60	17.62	17.65	17.67	17.70
28.00	DISCHG	17.72	17.74	17.76	17.79	17.81	17.83	17.85	17.87	17.89	17.91
29.00	DISCHG	17.93	17.95	17.97	17.99	18.01	18.03	18.05	18.07	18.08	18.08

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0400 CFS-HRS= 376.86 ACRE-FT= 31.14

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.78	6.433	(RUNOFF)
9.64	6.432	(RUNOFF)
14.50	7.033	(RUNOFF)
19.30	7.044	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0551 CFS-HRS= 196.24 ACRE-FT= 16.22

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.54	15.067	(RUNOFF)
9.99	15.178	(RUNOFF)
15.16	16.466	(RUNOFF)
19.65	16.632	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0534 CFS-HRS= 451.65 ACRE-FT= 37.32

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.42	21.495	(NULL)
10.00	21.608	(NULL)
15.12	23.493	(NULL)
19.66	23.677	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0535 CFS-HRS= 643.52 ACRE-FT= 53.18

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.16	8.303	(RUNOFF)
9.84	8.324	(RUNOFF)
14.55	9.065	(RUNOFF)
19.38	9.120	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0540 CFS-HRS= 249.96 ACRE-FT= 20.66

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.24	29.792	(NULL)
9.94	29.926	(NULL)
14.88	32.545	(NULL)
19.63	32.786	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.18	.35	.57	.92	1.51	2.12	2.95	4.05	5.38
1.00	DISCHG	6.85	8.42	10.13	11.81	13.55	15.21	16.70	18.08	19.41	20.54
2.00	DISCHG	21.47	22.36	23.19	23.82	24.37	24.89	25.37	25.75	26.10	26.43
3.00	DISCHG	26.74	27.01	27.27	27.52	27.76	27.97	28.18	28.40	28.57	28.73
4.00	DISCHG	28.90	29.04	29.16	29.27	29.37	29.46	29.53	29.59	29.66	29.70
5.00	DISCHG	29.74	29.76	29.79	29.79	29.78	29.77	29.74	29.69	29.64	29.58
6.00	DISCHG	29.51	29.43	29.36	29.29	29.22	29.16	29.10	29.05	29.01	28.97
7.00	DISCHG	28.93	28.90	28.88	28.86	28.85	28.85	28.85	28.86	28.88	28.92
8.00	DISCHG	28.96	29.02	29.08	29.15	29.23	29.30	29.38	29.46	29.53	29.60
9.00	DISCHG	29.66	29.71	29.76	29.80	29.83	29.86	29.89	29.91	29.92	29.93
10.00	DISCHG	29.92	29.91	29.89	29.85	29.82	29.76	29.69	29.62	29.55	29.47
11.00	DISCHG	29.39	29.31	29.24	29.18	29.11	29.06	29.01	28.97	28.94	28.90
12.00	DISCHG	28.89	28.89	28.89	28.90	28.96	29.03	29.10	29.22	29.39	29.57
13.00	DISCHG	29.77	30.00	30.24	30.49	30.73	30.97	31.19	31.40	31.59	31.75
14.00	DISCHG	31.90	32.03	32.14	32.23	32.32	32.40	32.44	32.49	32.52	32.55
15.00	DISCHG	32.54	32.54	32.52	32.48	32.43	32.38	32.31	32.25	32.18	32.11
16.00	DISCHG	32.05	31.99	31.94	31.89	31.84	31.81	31.77	31.74	31.72	31.71
17.00	DISCHG	31.70	31.69	31.70	31.72	31.74	31.77	31.82	31.87	31.94	32.01
18.00	DISCHG	32.09	32.17	32.25	32.32	32.39	32.46	32.53	32.58	32.62	32.67
19.00	DISCHG	32.70	32.73	32.76	32.78	32.79	32.79	32.79	32.78	32.76	32.72
20.00	DISCHG	32.68	32.63	32.56	32.49	32.41	32.34	32.26	32.18	32.11	32.04
21.00	DISCHG	31.98	31.93	31.88	31.84	31.80	31.77	31.74	31.73	31.72	31.70
22.00	DISCHG	31.71	31.73	31.74	31.77	31.82	31.88	31.94	32.01	32.09	32.17
23.00	DISCHG	32.25	32.33	32.40	32.47	32.53	32.58	32.63	32.67	32.71	32.74
24.00	DISCHG	32.78	32.81	32.85	32.90	32.96	33.02	33.10	33.20	33.32	33.45
25.00	DISCHG	33.60	33.77	33.94	34.11	34.28	34.44	34.60	34.74	34.87	34.99
26.00	DISCHG	35.09	35.18	35.26	35.33	35.39	35.44	35.49	35.53	35.57	35.59
27.00	DISCHG	35.62	35.65	35.67	35.69	35.70	35.72	35.73	35.74	35.76	35.77
28.00	DISCHG	35.77	35.78	35.79	35.79	35.80	35.80	35.81	35.81	35.81	35.82
29.00	DISCHG	35.82	35.82	35.82	35.82	35.83	35.83	35.83	35.83	35.83	35.83

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0537 CFS-HRS= 893.48 ACRE-FT= 73.84

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.50	29.786	(NULL)
10.14	29.923	(NULL)
15.19	32.539	(NULL)
19.73	32.787	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0532 CFS-HRS= 885.81 ACRE-FT= 73.20

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.83	6.890	(RUNOFF)
9.80	6.885	(RUNOFF)
14.62	7.520	(RUNOFF)
19.20	7.549	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0547 CFS-HRS= 208.95 ACRE-FT= 17.27

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.36	36.620	(NULL)
9.94	36.786	(NULL)
15.05	40.000	(NULL)
19.57	40.312	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0535 CFS-HRS= 1094.77 ACRE-FT= 90.47

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.64	36.611	(NULL)
10.26	36.780	(NULL)
15.35	39.990	(NULL)
19.85	40.304	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.03	.11	.28	.58	.98	1.58	2.38
1.00	DISCHG	3.35	4.51	5.87	7.43	9.16	11.01	12.94	14.90	16.85	18.75
2.00	DISCHG	20.53	22.20	23.73	25.13	26.36	27.45	28.42	29.27	30.00	30.64
3.00	DISCHG	31.22	31.72	32.17	32.58	32.96	33.31	33.63	33.93	34.21	34.48
4.00	DISCHG	34.73	34.96	35.18	35.38	35.56	35.73	35.88	36.01	36.13	36.23
5.00	DISCHG	36.33	36.40	36.47	36.53	36.57	36.59	36.61	36.61	36.59	36.56
6.00	DISCHG	36.52	36.47	36.41	36.33	36.26	36.17	36.09	36.01	35.93	35.85
7.00	DISCHG	35.79	35.72	35.67	35.62	35.57	35.54	35.51	35.49	35.48	35.48
8.00	DISCHG	35.49	35.51	35.54	35.59	35.64	35.71	35.78	35.87	35.95	36.04
9.00	DISCHG	36.13	36.22	36.30	36.38	36.46	36.52	36.58	36.63	36.68	36.72
10.00	DISCHG	36.75	36.77	36.78	36.78	36.77	36.75	36.72	36.67	36.62	36.55
11.00	DISCHG	36.47	36.39	36.30	36.21	36.12	36.04	35.95	35.87	35.80	35.73
12.00	DISCHG	35.67	35.62	35.58	35.55	35.53	35.53	35.55	35.59	35.66	35.76
13.00	DISCHG	35.89	36.05	36.24	36.47	36.71	36.97	37.25	37.53	37.82	38.09
14.00	DISCHG	38.35	38.59	38.82	39.02	39.21	39.37	39.51	39.63	39.74	39.82
15.00	DISCHG	39.89	39.94	39.97	39.99	39.99	39.97	39.94	39.90	39.85	39.78
16.00	DISCHG	39.71	39.63	39.56	39.48	39.41	39.34	39.27	39.21	39.16	39.11
17.00	DISCHG	39.07	39.03	39.01	38.99	38.98	38.98	39.00	39.02	39.05	39.10
18.00	DISCHG	39.16	39.22	39.30	39.38	39.47	39.56	39.65	39.74	39.83	39.91
19.00	DISCHG	39.98	40.05	40.11	40.16	40.20	40.24	40.27	40.29	40.30	40.30
20.00	DISCHG	40.29	40.27	40.24	40.19	40.14	40.07	40.00	39.92	39.83	39.74
21.00	DISCHG	39.65	39.56	39.48	39.40	39.33	39.26	39.20	39.15	39.10	39.06
22.00	DISCHG	39.03	39.01	39.00	39.00	39.01	39.03	39.06	39.11	39.16	39.23
23.00	DISCHG	39.31	39.39	39.48	39.57	39.66	39.75	39.83	39.91	39.98	40.05
24.00	DISCHG	40.11	40.16	40.21	40.26	40.30	40.35	40.41	40.48	40.56	40.66
25.00	DISCHG	40.77	40.90	41.05	41.21	41.39	41.58	41.78	41.97	42.17	42.36
26.00	DISCHG	42.54	42.71	42.87	43.01	43.14	43.25	43.35	43.43	43.51	43.58
27.00	DISCHG	43.63	43.68	43.73	43.77	43.80	43.83	43.86	43.88	43.90	43.92
28.00	DISCHG	43.94	43.95	43.96	43.98	43.99	43.99	44.00	44.01	44.01	44.02
29.00	DISCHG	44.02	44.03	44.03	44.04	44.04	44.04	44.04	44.05	44.05	44.05

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0528 CFS-HRS= 1081.87 ACRE-FT= 89.41

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
6.01	45.877	1569.15
10.51	48.395	1569.20
15.53	54.013	1569.32
20.00	55.701	1569.35

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	.05	.10	.18	.37	.72	1.18	1.76	2.66	3.77
1.00	DISCHG	5.05	6.55	8.27	10.18	12.26	14.42	16.66	18.95	21.17	23.32
2.00	DISCHG	25.37	27.28	29.01	30.60	32.03	33.30	34.43	35.45	36.34	37.14
3.00	DISCHG	37.86	38.51	39.10	39.64	40.15	40.62	41.06	41.48	41.88	42.25
4.00	DISCHG	42.60	42.94	43.26	43.55	43.82	44.08	44.32	44.53	44.74	44.92
5.00	DISCHG	45.08	45.24	45.38	45.49	45.60	45.69	45.76	45.81	45.84	45.87
6.00	DISCHG	45.88	45.87	45.85	45.83	45.79	45.76	45.72	45.68	45.65	45.62
7.00	DISCHG	45.60	45.59	45.58	45.58	45.58	45.60	45.62	45.66	45.70	45.76
8.00	DISCHG	45.83	45.91	46.01	46.11	46.23	46.36	46.50	46.64	46.79	46.94
9.00	DISCHG	47.09	47.23	47.37	47.51	47.63	47.75	47.86	47.96	48.05	48.14
10.00	DISCHG	48.21	48.27	48.32	48.36	48.39	48.40	48.39	48.38	48.35	48.31
11.00	DISCHG	48.26	48.20	48.14	48.08	48.01	47.95	47.90	47.85	47.80	47.77
12.00	DISCHG	47.74	47.72	47.72	47.73	47.76	47.80	47.89	47.99	48.12	48.30
13.00	DISCHG	48.51	48.75	49.02	49.32	49.65	49.99	50.34	50.70	51.06	51.40
14.00	DISCHG	51.72	52.03	52.32	52.58	52.82	53.04	53.23	53.39	53.54	53.67
15.00	DISCHG	53.78	53.86	53.93	53.98	54.00	54.01	54.01	53.99	53.96	53.92
16.00	DISCHG	53.87	53.82	53.76	53.71	53.66	53.61	53.57	53.53	53.51	53.49
17.00	DISCHG	53.47	53.47	53.47	53.49	53.51	53.55	53.60	53.66	53.74	53.83
18.00	DISCHG	53.92	54.03	54.15	54.28	54.40	54.53	54.66	54.79	54.91	55.03
19.00	DISCHG	55.14	55.23	55.32	55.41	55.48	55.55	55.60	55.65	55.68	55.69
20.00	DISCHG	55.70	55.70	55.67	55.64	55.59	55.54	55.47	55.40	55.32	55.24
21.00	DISCHG	55.16	55.09	55.01	54.95	54.89	54.84	54.79	54.76	54.73	54.71
22.00	DISCHG	54.70	54.70	54.71	54.74	54.77	54.82	54.89	54.96	55.05	55.15
23.00	DISCHG	55.26	55.37	55.50	55.62	55.74	55.85	55.97	56.07	56.17	56.26
24.00	DISCHG	56.35	56.43	56.51	56.59	56.67	56.75	56.85	56.96	57.09	57.24
25.00	DISCHG	57.40	57.59	57.79	58.00	58.23	58.47	58.72	58.97	59.21	59.44
26.00	DISCHG	59.67	59.87	60.07	60.25	60.41	60.55	60.69	60.81	60.91	61.01
27.00	DISCHG	61.10	61.18	61.25	61.32	61.38	61.43	61.48	61.53	61.58	61.62
28.00	DISCHG	61.66	61.69	61.73	61.76	61.79	61.82	61.85	61.88	61.91	61.93
29.00	DISCHG	61.96	61.98	62.00	62.03	62.05	62.07	62.09	62.11	62.13	62.13

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0488 CFS-HRS= 1458.72 ACRE-FT= 120.55

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
NO PEAK FOUND, MAXIMUM DISCHARGE,=	34.746 CFS.	

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.33

TIME											
[illegible]	DISCHG	.00	.00	.00	.00	.00	.00	.01	.01	.02	.03
1[illegible]	DISCHG	.05	.07	.10	.13	.17	.22	.28	.34	.42	.50
2[illegible]	DISCHG	.58	.68	.78	.89	1.00	1.12	1.24	1.36	1.49	.62
3.00	DISCHG	1.76	1.89	2.03	2.17	2.31	2.45	2.59	2.73	2.88	3.02
4.00	DISCHG	3.17	3.31	3.46	3.61	3.76	3.91	4.06	4.20	4.35	4.50
5.00	DISCHG	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	6.00
6.00	DISCHG	6.15	6.29	6.44	6.58	6.73	6.87	7.02	7.16	7.30	7.45
7.00	DISCHG	7.59	7.73	7.87	8.01	8.15	8.29	8.42	8.56	8.70	8.84
8.00	DISCHG	8.97	9.11	9.25	9.38	9.52	9.65	9.79	9.93	10.06	10.20
9.00	DISCHG	10.34	10.47	10.61	10.74	10.88	11.02	11.15	11.29	11.43	11.56
10.00	DISCHG	11.70	11.83	11.97	12.10	12.24	12.37	12.50	12.64	12.77	12.90
11.00	DISCHG	13.03	13.16	13.29	13.42	13.55	13.68	13.80	13.93	14.05	14.18
12.00	DISCHG	14.30	14.43	14.55	14.67	14.80	14.92	15.04	15.16	15.28	15.40
13.00	DISCHG	15.53	15.65	15.77	15.90	16.02	16.15	16.27	16.40	16.53	16.65
14.00	DISCHG	16.78	16.91	17.04	17.18	17.31	17.44	17.57	17.70	17.84	17.97
15.00	DISCHG	18.10	18.23	18.36	18.50	18.63	18.76	18.89	19.02	19.15	19.28
16.00	DISCHG	19.41	19.53	19.66	19.79	19.91	20.04	20.16	20.28	20.41	20.53
17.00	DISCHG	20.65	20.77	20.89	21.01	21.14	21.25	21.37	21.49	21.61	21.73
18.00	DISCHG	21.85	21.97	22.09	22.21	22.33	22.45	22.57	22.68	22.80	22.92
19.00	DISCHG	23.04	23.16	23.28	23.40	23.52	23.64	23.75	23.87	23.99	24.11
20.00	DISCHG	24.22	24.34	24.46	24.57	24.69	24.80	24.91	25.03	25.14	25.25
21.00	DISCHG	25.36	25.47	25.58	25.69	25.80	25.91	26.01	26.12	26.23	26.33
22.00	DISCHG	26.44	26.54	26.65	26.75	26.85	26.96	27.06	27.16	27.27	27.37
23.00	DISCHG	27.47	27.58	27.68	27.78	27.88	27.99	28.09	28.19	28.30	28.40
24.00	DISCHG	28.50	28.61	28.71	28.81	28.92	29.02	29.12	29.23	29.33	29.43
25.00	DISCHG	29.54	29.64	29.74	29.85	29.95	30.06	30.16	30.27	30.37	30.48
26.00	DISCHG	30.59	30.70	30.81	30.91	31.02	31.13	31.24	31.35	31.46	31.57
27.00	DISCHG	31.68	31.79	31.90	32.01	32.11	32.22	32.33	32.44	32.55	32.65
28.00	DISCHG	32.76	32.87	32.98	33.08	33.19	33.29	33.40	33.51	33.61	33.71
29.00	DISCHG	33.82	33.92	34.03	34.13	34.23	34.34	34.44	34.54	34.64	34.75

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0175 CFS-HRS= 521.89 ACRE-FT= 43.13

ENDCMP

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CHANGES TO STANDARD CONTROL LIST FOLLOW
EXECUTIVE CONTROL CARD      103   OPERATION  ALTER

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  15      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6,      DATA FIELDS=          1.7200      83.0000          .3000
OUTPUT OPTION= 1 0 0 1 0 1ID=       104

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  14      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          1.1600      82.0000          .2500
OUTPUT OPTION= 1 0 0 1 0 1ID=       105

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  16      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          2.2400      85.0000          .5900
OUTPUT OPTION= 1 0 0 1 0 1ID=       106

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  13      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          1.3500      86.0000          .2100
OUTPUT OPTION= 1 0 0 1 0 1ID=       107

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  12      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          1.4300      89.0000          .4500
OUTPUT OPTION= 1 0 0 1 0 1ID=       108

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  11      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=           .6300      85.0000          .3100
OUTPUT OPTION= 1 0 0 1 0 1ID=       109

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  17      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=           .2100      82.0000          .2300
OUTPUT OPTION= 1 0 0 1 0 1ID=       110

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   2      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          5.8700      79.0000          2.0200
OUTPUT OPTION= 1 0 0 1 0 1ID=       111

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   5      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          5.5200      84.0000          1.1800
OUTPUT OPTION= 1 0 0 1 0 1ID=       112

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   4      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=         13.1100      84.0000          2.1700
OUTPUT OPTION= 1 0 0 1 0 1ID=       113

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   6      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          7.1700      82.0000          1.8000
OUTPUT OPTION= 1 0 0 1 0 1ID=       114
```

```
ST[illegible]RD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SEC[illegible]=    3      STRUCTURE=   0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          5.9200       81.0000        1.4100
OUTPUT OPTION= 1 0 0 1 0 1ID=       115
```

EXECUTIVE CONTROL CARD 116 OPERATION LIST

LISTING OF DATA IN CORE

0 -POWERLINE DAM ANALYSIS, SEPT 1985

		VELOCITY INCREMENT			
1 CTABLE		.2000			
8	.0000	.0800	.1600	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6800	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300
9 ENDTBL					

STRUCT. NO.
3 STRUCT 1

	ELEVATION	DISCHARGE	STORAGE
8	1568.2000	.0000	175.0000
8	1570.1000	92.0000	380.0000
8	1572.1000	106.0000	700.0000
8	1574.1000	119.0000	1100.0000
8	1576.1000	130.0000	1600.0000
8	1578.1000	141.0000	2175.0000
8	1580.1000	150.0000	2875.0000
8	1582.1000	159.0000	3675.0000
8	1583.3000	165.0000	4199.9999
8	1584.1000	668.0000	4599.9999
8	1586.1000	4426.0000	5524.9999
8	1588.1000	11084.0000	6724.9999
8	1590.1000	20092.0000	7924.9999
9 ENDTBL			

STRUCT NO.
3 STRUCT 7

	ELEVATION	DISCHARGE	STORAGE
8	1967.0000	.0000	.0000
8	1967.5000	16.0000	16.2000
8	1968.0000	46.0000	32.5000
8	1968.5000	87.0000	49.7000
8	1969.0000	88.0000	65.0000
8	1970.5000	91.0000	129.3000
8	1972.1000	94.0000	212.9000
8	1975.2000	100.0000	421.9000
8	1976.7000	103.0000	545.9000
8	1977.8000	105.0000	641.5000
8	1978.3000	106.0000	686.7000
8	1978.8000	106.0000	734.3000
8	1979.3000	107.0000	789.7000
8	1979.8000	108.0000	830.1000
8	1984.5000	1293.0000	1357.7000
8	1987.6000	5512.0000	1774.1000
8	1990.7000	12053.0000	2243.6000
8	1996.7000	31953.0000	3357.8000
8	2000.0000	45388.0000	4029.1000

9 ENDTBL

TIME INCREMENT

4 DIMHYD

8	.0000	.0300	.1000	.1900	.3100
8	.4700	.6600	.8200	.9300	.9900
8	1.0000	.9900	.9300	.8600	.7800
8	.6800	.5600	.4600	.3900	.3300
8	.2800	.2410	.2070	.1740	.1470
8	.1260	.1070	.0910	.0770	.0660
8	.0550	.0470	.0400	.0340	.0290
8	.0250	.0210	.0180	.0150	.0130
8	.0110	.0090	.0080	.0070	.0060
8	.0050	.0040	.0030	.0020	.0010
8	.0000	.0000	.0000	.0000	.0000

9 ENDTBL

COMPUTED PEAK K FACTOR = 484.00

TIME INCREMENT

5 RAINFL 1 .5000

8	.0000	.0080	.0170	.0260	.0350
8	.0450	.0550	.0650	.0760	.0870
8	.0990	.1120	.1250	.1400	.1560
8	.1740	.1940	.2190	.2540	.3030
8	.5150	.5830	.6240	.6540	.6820
8	.7050	.7270	.7480	.7670	.7840
8	.8000	.8160	.8300	.8440	.8570
8	.8700	.8820	.8930	.9050	.9160
8	.9260	.9360	.9460	.9550	.9650
8	.9740	.9830	.9920	1.0000	1.0000

```
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 2                .5000

8              .0000     .0050     .0110     .0160     .0220
8              .0280     .0350     .0410     .0480     .0560
8              .0630     .0710     .0800     .0890     .0980
8              .1090     .1200     .1330     .1470     .1630
8              .1810     .2040     .2350     .2930     .6630
8              .7350     .7720     .7990     .8200     .8380
8              .8540     .8680     .8800     .8910     .9020
8              .9120     .9210     .9290     .9370     .9450
8              .9520     .9590     .9650     .9720     .9780
8              .9840     .9890     .9950    1.0000    1.0000
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 3               2.4000

8              .0000     .0021     .0041     .0062     .0082
8              .0103     .0126     .0148     .0171     .0193
8              .0216     .0241     .0266     .0292     .0317
8              .0342     .0370     .0399     .0427     .0456
8              .0484     .0517     .0549     .0582     .0614
8              .0647     .0686     .0724     .0763     .0801
8              .0840     .0886     .0936     .0984     .1032
8              .1080     .1145     .1210     .1274     .1339
8              .1404     .1509     .1613     .1718     .1822
8              .1927     .2068     .2244     .2481     .2864
8              .6960     .7549     .7940     .8041     .8198
8              .8327     .8406     .8486     .8565     .8645
8              .8724     .8779     .8834     .8889     .8944
8              .8999     .9042     .9085     .9127     .9170
8              .9213     .9248     .9284     .9319     .9355
8              .9390     .9420     .9450     .9481     .9511
8              .9541     .9568     .9594     .9621     .9647
8              .9674     .9698     .9722     .9745     .9769
8              .9793     .9815     .9836     .9858     .9879
8              .9901     .9926     .9951     .9975    1.0000
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 4               2.4000

8              .0000     .0020     .0041     .0061     .0082
8              .0102     .0125     .0147     .0170     .0192
8              .0215     .0240     .0265     .0290     .0314
8              .0339     .0367     .0395     .0424     .0452
8              .0480     .0512     .0544     .0577     .0609
8              .0641     .0679     .0718     .0756     .0795
8              .0833     .0881     .0929     .0976     .1024
8              .1072     .1136     .1200     .1265     .1329
8              .1393     .1497     .1601     .1706     .1810
```

```
8                .1914          .2055          .2230          .2466          .2848
8                .6776          .7564          .7854          .8054          .8210
8                .8339          .8418          .8497          .8576          .8655
8                .8734          .8789          .8843          .8898          .8952
8                .9007          .9049          .9092          .9134          .9177
8                .9219          .9254          .9289          .9325          .9360
8                .9395          .9425          .9455          .9485          .9515
8                .9545          .9571          .9598          .9624          .9651
8                .9577          .9701          .9724          .9748          .9771
8                .9795          .9816          .9838          .9859          .9891
8                .9902          .9927          .9951          .9975         1.0000
9 ENDTBL

                          TIME INCREMENT
5 RAINFL 5                        .2500

8                .0000          .0072          .0152          .0251          .0358
8                .0538          .0717          .0950          .1219          .4910
8                .6398          .7043          .7661          .8109          .8486
8                .8799          .9041          .9274          .9453          .9606
8                .9713          .9821          .9892          .9955         1.0000
9 ENDTBL

                          TIME INCREMENT
5 RAINFL 6                        .5000

8                .0000          .0078          .0150          .0214          .0286
8                .0371          .0457          .0550          .0643          .0750
8                .0864          .0971          .1071          .1250          .1514
8                .1821          .2250          .3214          .4143          .4964
8                .5714          .6421          .6893          .7214          .7500
8                .7750          .7957          .8143          .8314          .8486
8                .8621          .8757          .8879          .9000          .9093
8                .9193          .9286          .9364          .9443          .9514
8                .9593          .9657          .9714          .9786          .9829
8                .9879          .9921          .9964         1.0000         1.0000
9 ENDTBL
```

```
6 RUNOFF  1  15        6      1.7200      83.0000      .30001 0 0 1 0 1
6 REACH   3 114    6   5   2700.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1  14        6      1.1600      82.0000      .25001 0 0 1 0 1
6 ADDHYD  4  14    5 6 7                                   1 0 0 1 0 1
6 SAVMOV  5  14    7   5
6 RUNOFF  1  16        6      2.2400      85.0000      .59001 0 0 1 0 1
6 ADDHYD  4 114    5 6 7                                   1 0 0 1 0 1
6 REACH   3 113    7   5   4300.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1  13        6      1.3500      86.0000      .21001 0 0 1 0 1
6 ADDHYD  4  13    5 6 7                                   1 0 0 1 0 1
6 REACH   3 112    7   5   4600.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1  12        6      1.4300      88.0000      .45001 0 0 1 0 1
6 ADDHYD  4  12    5 6 7                                   1 0 0 1 0 1
6 REACH   3 111    7   5   1800.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1  11        6       .6300      85.0000      .31001 0 0 1 0 1
6 ADDHYD  4 111    5 6 7                                   1 0 0 1 0 1
6 SAVMOV  5 111    7   5
6 RUNOFF  1  17        6       .2100      82.0000      .23001 0 0 1 0 1
6 ADDHYD  4 117    5 6 7                                   1 1 0 1 0 1
6 SAVMOV  5 117    7   6
6 RESVOR  2      7 6   7   1967.0000                       1 1 0 1 0 1
6 REACH   3 102    7   5  38600.0000        .8000      .00001 0 0 1 0 1
6 RUNOFF  1   2        6      5.8700      79.0000     2.02001 0 0 1 0 1
6 ADDHYD  4 102    5 6 1                                   1 1 0 1 0 1
6 RUNOFF  1   5        6      5.5200      84.0000     1.18001 0 0 1 0 1
6 REACH   3 104    6   5  12500.0000        .7800      .00000 0 0 0 0 0
6 RUNOFF  1   4        6     13.1100      84.0000     2.17001 0 0 1 0 1
6 ADDHYD  4 104    5 6 7                                   1 0 0 1 0 1
6 SAVMOV  5 104    7   5
6 RUNOFF  1   6        6      7.1700      82.0000     1.80001 0 0 1 0 1
6 ADDHYD  4 106    5 6 7                                   1 1 0 1 0 1
6 REACH   3   3    7   5   4000.0000        .7500      .00001 0 0 1 0 1
6 RUNOFF  1   3        6      5.9200      81.0000     1.41001 0 0 1 0 1
6 ADDHYD  4   3    5 6 7                                   1 0 0 1 0 1
6 REACH   3 102    7   5   5500.0000        .7500      .00001 1 0 1 0 1
6 SAVMOV  5 102    1   6
6 ADDHYD  4      1 5 6 4                                   1 1 0 1 0 1
6 RESVOR  2      1 4   7   1568.2000                       1 1 0 1 0 1
  ENDATA

END OF LISTING
```

EXECUTIVE CONTROL CARD 117 OPERATION INCREM, MAIN TIME INCREMENT= .10
EXECUTIVE CONTROL CARD 118 OPERATION COMPUT, FROM XSECTN/STRUCT 2/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 4.70 RAIN DURATION= 1.00 RAIN TABLE NO.= 5 SOIL CONDITION= 2
ALTERNATE NO.= 1 STORM NO.= 2

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.82	3431.947	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.5407 CFS-HRS= 9624.88 ACRE-FT= 795.40

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.82	3431.947	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 5.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	6.12	15.05
2.00	DISCHG	23.98	53.27	153.62	253.96	354.30	560.09	799.17	1038.26	1305.21	1638.07
3.00	DISCHG	1970.93	2303.80	2551.44	2782.15	3012.87	3187.82	3268.40	3348.97	3429.55	3395.48
4.00	DISCHG	3349.87	3304.26	3221.01	3090.94	2960.87	2830.81	2705.18	2579.63	2454.08	2335.01
5.00	DISCHG	2221.93	2108.84	1996.32	1893.07	1789.82	1686.57	1591.01	1500.70	1410.39	1321.50
6.00	DISCHG	1242.04	1162.59	1083.13	1010.37	940.92	871.48	803.79	742.86	681.92	620.98
7.00	DISCHG	567.36	516.26	465.16	417.34	377.99	338.64	299.29	269.08	240.91	212.75
8.00	DISCHG	187.87	168.96	150.06	131.16	117.56	104.61	91.66	80.31	71.09	61.87
9.00	DISCHG	52.65	46.95	41.39	35.82	31.26	27.71	24.15	20.64	18.37	16.10
10.00	DISCHG	13.83	12.03	10.58	9.13	7.74	6.81	5.88	4.95	4.25	3.66
11.00	DISCHG	3.08	2.54	2.19	1.84	1.48	1.23	1.02	.81	.62	.50
12.00	DISCHG	.38	.26	.19	.14	.08	.04	.03	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.5407 CFS-HRS= 9624.88 ACRE-FT= 795.40

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.11	5365.176	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9913 CFS-HRS= 10656.28 ACRE-FT= 880.64

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES 3.81 | PEAK DISCHARGES 8561.513 | PEAK ELEVATIONS (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9923 CFS-HRS= 25317.43 ACRE-FT= 2092.23

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES 3.74 | PEAK DISCHARGES 13779.518 | PEAK ELEVATIONS (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9920 CFS-HRS= 35973.71 ACRE-FT= 2972.87

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES 3.68 | PEAK DISCHARGES 4991.198 | PEAK ELEVATIONS (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8081 CFS-HRS= 12994.00 ACRE-FT= 1073.82

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES 3.72 | PEAK DISCHARGES 18747.779 | PEAK ELEVATIONS (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.14	1.46	2.87	4.27	92.83
2.00	DISCHG	299.39	506.13	788.35	1392.33	2097.85	2902.56	3919.08	5320.18	6880.58	8623.99
3.00	DISCHG	10499.07	12367.26	14061.55	15689.03	16992.04	17742.85	18320.40	18735.41	18560.06	18205.44
4.00	DISCHG	17786.48	17246.67	16468.04	15699.01	14963.55	14229.52	13477.24	12755.81	12056.30	11396.03
5.00	DISCHG	10775.71	10176.03	9588.27	9049.18	8530.12	8018.76	7529.27	7081.64	6640.43	6210.97
6.00	DISCHG	5811.34	5432.78	5062.49	4704.77	4370.16	4046.85	3734.09	3424.92	3141.99	2870.34
7.00	DISCHG	2599.96	2340.37	2116.18	1895.19	1678.34	1496.94	1333.27	1174.74	1031.04	917.08
8.00	DISCHG	810.10	713.29	624.53	555.97	493.74	435.01	383.19	341.97	303.06	264.76
9.00	DISCHG	233.91	206.91	180.23	154.54	137.46	120.56	104.19	90.10	79.85	69.85
10.00	DISCHG	60.43	52.69	46.36	40.47	34.61	30.33	26.63	22.95	19.42	17.11
11.00	DISCHG	14.80	12.49	10.61	9.19	7.77	6.41	5.41	4.58	3.79	3.02
12.00	DISCHG	2.55	2.10	1.66	1.27	1.03	.79	.55	.38	.27	.17
13.00	DISCHG	.06	.03	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9409 CFS-HRS= 48967.71 ACRE-FT= 4046.69

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES | PEAK DISCHARGES | PEAK ELEVATIONS
3.94 | 18543.118 | (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.940 CFS-HRS= 48961.81 ACRE-FT= 4046.

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES | PEAK DISCHARGES | PEAK ELEVATIONS
3.36 | 4599.099 | (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7179 CFS-HRS= 10383.96 ACRE-FT= 858.13

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES | PEAK DISCHARGES | PEAK ELEVATIONS
3.88 | 22138.405 | (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8990 CFS-HRS= 59345.76 ACRE-FT= 4904.33

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES | PEAK DISCHARGES | PEAK ELEVATIONS
4.17 | 21949.052 | (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.20
2.00	DISCHG	.92	2.16	35.63	137.72	340.87	698.15	1207.51	1971.51	2938.16	4202.24
3.00	DISCHG	5617.93	7271.82	9057.59	10963.65	12929.27	14861.72	16704.43	18355.54	19740.81	20774.91
4.00	DISCHG	21473.57	21869.27	21938.03	21712.09	21279.46	20684.47	19942.25	19103.55	18222.95	17336.24
5.00	DISCHG	16451.64	15580.52	14733.13	13917.30	13140.48	12397.59	11687.29	11011.06	10366.36	9748.98
6.00	DISCHG	9156.75	8594.81	8058.41	7543.94	7052.83	6583.98	6134.18	5701.05	5285.34	4886.02
7.00	DISCHG	4501.24	4131.89	3779.09	3445.52	3127.15	2824.95	2543.92	2280.76	2035.82	1811.79
8.00	DISCHG	1609.15	1424.55	1257.01	1108.96	978.10	861.58	757.97	667.74	589.44	520.11
9.00	DISCHG	458.88	405.49	358.38	315.99	278.24	244.88	214.67	187.29	163.56	142.98
10.00	DISCHG	124.67	108.46	94.57	82.57	71.97	62.68	54.66	47.65	41.40	35.97
11.00	DISCHG	31.32	27.20	23.50	20.33	17.58	15.12	12.94	11.07	9.44	7.99
12.00	DISCHG	6.73	5.66	4.73	3.92	3.24	2.67	2.18	1.75	1.39	1.09
13.00	DISCHG	.83	.61	.44	.30	.19	.11	.06	.03	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8988 CFS-HRS= 59342.69 ACRE-FT= 4904.08

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.15	25211.664	1591.24

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	6.14	15.25
2.00	DISCHG	24.90	55.43	169.24	391.68	695.17	1258.24	2006.68	3009.77	4293.37	5840.32
3.00	DISCHG	7588.87	9575.62	11609.03	13745.80	15942.14	18049.54	19972.83	21704.52	23170.36	24170.39
4.00	DISCHG	24823.44	25173.53	25159.04	24803.03	24240.34	23515.27	22647.43	21683.18	20677.03	19671.25
5.00	DISCHG	18673.56	17689.36	16729.45	15810.37	14930.30	14084.16	13278.30	12511.75	11776.75	11070.48
6.00	DISCHG	10398.80	9757.39	9141.53	8554.30	7993.75	7455.46	6937.97	6443.90	5967.26	5507.01
7.00	DISCHG	5068.60	4648.15	4244.25	3862.86	3505.14	3163.59	2843.21	2549.83	2276.74	2024.54
8.00	DISCHG	1793.01	1593.51	1407.07	1240.12	1095.66	966.19	849.63	748.05	660.53	581.98
9.00	DISCHG	511.52	452.45	399.76	351.81	309.50	272.59	238.81	207.93	181.93	159.08
10.00	DISCHG	138.50	120.49	105.15	91.70	79.70	69.49	60.54	52.60	45.64	39.64
11.00	DISCHG	34.40	29.74	25.69	22.16	19.06	16.35	13.97	11.89	10.06	8.49
12.00	DISCHG	7.11	5.93	4.93	4.06	3.32	2.71	2.20	1.76	1.39	1.09
13.00	DISCHG	.83	.61	.44	.30	.19	.11	.06	.03	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8429 CFS-HRS= 68967.57 ACRE-FT= 5699.48

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.46	3310.652	1585.51

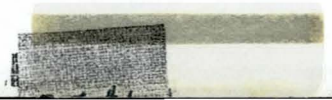
HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05
2.00	DISCHG	.13	.27	.73	1.80	3.80	7.40	13.42	22.66	36.09	54.72
3.00	DISCHG	79.37	93.84	97.64	102.18	107.12	111.66	116.74	121.23	125.29	129.57
4.00	DISCHG	133.48	137.41	141.25	143.89	146.48	149.00	151.26	153.30	155.26	157.12
5.00	DISCHG	158.89	160.59	162.20	163.72	181.85	329.96	467.99	596.47	820.88	1171.00
6.00	DISCHG	1486.80	1770.50	2024.07	2249.41	2448.35	2622.58	2773.63	2902.98	3012.04	3102.03
7.00	DISCHG	3174.21	3229.82	3269.99	3295.86	3308.68	3309.53	3299.42	3279.51	3250.90	3214.57
8.00	DISCHG	3171.52	3122.77	3069.19	3011.55	2950.67	2887.28	2821.91	2755.11	2687.39	2619.16
9.00	DISCHG	2550.72	2482.41	2414.51	2347.19	2280.60	2214.90	2150.20	2086.58	2024.11	1962.90
10.00	DISCHG	1903.00	1844.43	1787.25	1731.48	1677.14	1624.22	1572.73	1522.66	1474.00	1426.74
11.00	DISCHG	1380.85	1336.31	1293.10	1251.19	1210.55	1171.16	1132.99	1096.00	1060.17	1025.47
12.00	DISCHG	991.86	959.33	927.83	897.34	867.83	839.27	811.64	784.90	759.03	734.01
13.00	DISCHG	709.80	686.39	666.67	659.78	652.96	646.21	639.53	632.92	626.37	619.90
14.00	DISCHG	613.49	607.15	600.87	594.66	588.51	582.42	576.40	570.44	564.55	558.71
15.00	DISCHG	552.93	547.22	541.56	535.96	530.42	524.93	519.51	514.14	508.82	503.56
16.00	DISCHG	498.35	493.20	488.10	483.06	478.06	473.12	468.23	463.39	458.60	453.85
17.00	DISCHG	449.16	444.52	439.92	435.37	430.87	426.42	422.01	417.65	413.33	409.06
18.00	DISCHG	404.83	400.64	396.50	392.40	388.34	384.33	380.35	376.42	372.53	368.68
19.00	DISCHG	364.87	361.10	357.36	353.67	350.01	346.39	342.81	339.27	335.76	332.29
20.00	DISCHG	328.85	325.45	322.08	318.76	315.46	312.20	308.97	305.78	302.62	299.49
21.00	DISCHG	296.39	293.33	290.29	287.29	284.32	281.38	278.47	275.60	272.75	269.93
22.00	DISCHG	267.14	264.37	261.64	258.94	256.26	253.61	250.99	248.39	245.82	243.28
23.00	DISCHG	240.77	238.28	235.81	233.38	230.96	228.58	226.21	223.87	221.56	219.27
24.00	DISCHG	217.00	214.76	212.54	210.34	208.17	206.01	203.88	201.78	199.69	197.63
25.00	DISCHG	195.58	193.56	191.56	189.58	187.62	185.68	183.76	181.86	179.98	178.12
26.00	DISCHG	176.28	174.45	172.65	170.87	169.10	167.35	165.62	164.99	164.97	164.96
27.00	DISCHG	164.94	164.93	164.91	164.90	164.88	164.87	164.85	164.83	164.82	164.80

28.00	[redacted]HG	164.79	164.77	164.76	164.74	164.73	164.71	164.69	164.68	164.66	164.65
29.00	[redacted]G	164.63	164.62	164.60	164.59	[redacted]	164.55	164.54	164.52	164.51	164.49

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8575 CFS-HRS= 20803.12 ACRE-FT= 1719.17

ENDCMP



PASS= 4

EXECUTIVE CONTROL CARD 120 OPERATION COMPUT, FROM XSECTN/STRUCT 2/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 9.05 RAIN DURATION= 1.00 RAIN TABLE NO.= 5 SOIL CONDITION= 2
ALTERNATE NO.= 1 STORM NO.= 3

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.79	9048.147	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.4807 CFS-HRS= 24550.91 ACRE-FT= 2028.89

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.79	9048.147	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 5.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.04	.09	.15	.63	3.52	6.41	9.30	48.36	103.98
2.00	DISCHG	159.61	277.45	612.25	947.06	1281.86	1897.80	2602.53	3307.25	4063.45	4941.43
3.00	DISCHG	5819.41	6697.38	7286.24	7817.66	8349.09	8723.04	8830.49	8937.94	9045.39	8858.98
4.00	DISCHG	8642.99	8427.01	8130.87	7735.05	7339.23	6943.41	6595.49	6248.42	5901.34	5580.66
5.00	DISCHG	5284.34	4988.02	4693.77	4433.79	4173.81	3913.83	3677.47	3457.22	3236.98	3020.90
6.00	DISCHG	2832.30	2643.71	2455.11	2285.04	2124.14	1963.25	1806.90	1668.11	1529.33	1390.54
7.00	DISCHG	1269.36	1154.26	1039.16	931.65	843.66	755.67	667.68	600.28	537.49	474.70
8.00	DISCHG	419.14	376.78	334.42	292.05	261.29	231.87	202.48	176.77	155.97	135.18
9.00	DISCHG	114.38	101.92	89.76	77.60	67.66	59.93	52.19	44.57	39.66	34.74
10.00	DISCHG	29.82	25.93	22.80	19.66	16.65	14.65	12.65	10.65	9.13	7.87
11.00	DISCHG	6.62	5.46	4.70	3.94	3.18	2.65	2.19	1.74	1.34	1.08
12.00	DISCHG	.82	.57	.42	.29	.17	.08	.05	.03	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.4807 CFS-HRS= 24550.91 ACRE-FT= 2028.89

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 1.19

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.04	13355.964	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.0933 CFS-HRS= 25269.54 ACRE-FT= 2088.27

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES | PEAK DISCHARGES | PEAK ELEVATIONS (RUNOFF)
3.74 | 21011.961 |

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.095 CFS-HRS= 60034.83 ACRE-FT= 4961.2

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES | PEAK DISCHARGES | PEAK ELEVATIONS (NULL)
3.70 | 33827.760 |

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.0950 CFS-HRS= 85304.37 ACRE-FT= 7049.55

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES | PEAK DISCHARGES | PEAK ELEVATIONS (RUNOFF)
3.45 | 12541.971 |

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.8519 CFS-HRS= 31705.91 ACRE-FT= 2620.18

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES | PEAK DISCHARGES | PEAK ELEVATIONS (NULL)
3.68 | 46251.180 |

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05
1.00	DISCHG	.14	.25	4.73	12.21	20.81	32.43	73.44	121.39	171.11	495.63
2.00	DISCHG	1187.74	1888.01	2804.20	4573.64	6617.04	8919.03	11754.41	15491.71	19597.86	24039.31
3.00	DISCHG	28735.39	33219.91	37123.75	40793.94	43568.27	44885.46	45758.42	46231.71	45296.02	43948.72
4.00	DISCHG	42478.31	40810.32	38644.27	36525.51	34538.18	32608.50	30703.13	28895.84	27154.07	25538.11
5.00	DISCHG	24046.07	22612.13	21209.27	19948.05	18741.87	17555.22	16426.78	15412.67	14413.98	13444.47
6.00	DISCHG	12550.61	11709.79	10888.39	10097.26	9363.82	8658.03	7977.81	7306.23	6697.24	6114.51
7.00	DISCHG	5574.74	4979.06	4501.58	4030.83	3568.67	3182.75	2834.86	2497.61	2191.53	1948.95
8.00	DISCHG	1721.04	1515.32	1326.74	1180.87	1048.60	923.84	813.47	725.35	642.06	560.04
9.00	DISCHG	493.71	435.49	377.93	322.43	286.57	251.07	216.66	187.12	165.75	144.92
10.00	DISCHG	125.29	109.19	96.03	83.79	71.62	62.74	55.09	47.45	40.12	35.34
11.00	DISCHG	30.57	25.79	21.89	18.95	16.01	13.22	11.16	9.43	7.81	6.22
12.00	DISCHG	5.25	4.33	3.42	2.62	2.12	1.63	1.14	.78	.56	.34
13.00	DISCHG	.12	.06	.04	.02	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.0274 CFS-HRS= 117010.27 ACRE-FT= 9669.73

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.88	45779.458	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.0266 CFS-HRS= 116997.40 ACRE-FT= 9668.67

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.23	11900.334	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7296 CFS-HRS= 25710.91 ACRE-FT= 2124.75

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5.6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.80	54719.973	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9712 CFS-HRS= 142708.30 ACRE-FT= 11793.41

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.10	54331.544	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.01	.03	.08	1.18	4.41	11.83	24.75	45.41
2.00	DISCHG	86.09	145.48	323.55	731.85	1457.61	2638.98	4255.89	6545.86	9493.83	12923.64
3.00	DISCHG	16793.37	21196.28	25819.94	30630.72	35472.94	40091.17	44343.62	48003.11	50902.89	52871.47
4.00	DISCHG	53978.86	54331.69	53904.93	52787.33	51211.50	49303.88	47110.40	44748.66	42342.34	39980.50
5.00	DISCHG	37681.79	35464.49	33341.68	31326.16	29433.34	27643.59	25948.32	24350.16	22840.55	21405.58
6.00	DISCHG	20038.46	18751.87	17532.61	16369.98	15266.67	14219.46	13219.71	12261.05	11345.27	10469.77
7.00	DISCHG	9629.73	8826.74	8063.24	7344.45	6660.66	6013.17	5412.49	4851.02	4329.01	3851.96
8.00	DISCHG	3420.78	3028.11	2671.71	2356.67	2078.20	1830.34	1610.04	1418.22	1251.79	1104.44
9.00	DISCHG	974.22	860.52	759.98	669.39	588.52	516.92	451.91	393.32	342.24	298.52
10.00	DISCHG	259.83	225.72	196.59	171.49	149.36	130.00	113.31	98.72	85.73	74.46
11.00	DISCHG	64.81	56.26	48.60	42.01	36.31	31.22	26.72	22.86	19.48	16.47
12.00	DISCHG	13.87	11.67	9.75	8.08	6.67	5.50	4.48	3.59	2.86	2.24
13.00	DISCHG	1.71	1.26	.91	.62	.39	.23	.13	.07	.03	.01
14.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9708 CFS-HRS= 142699.68 ACRE-FT= 11792.70

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1

INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.07	62807.465	1599.58

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.04	.10	.18	.71	4.70	10.82	21.14	73.10	149.39
2.00	DISCHG	245.70	422.92	935.80	1678.90	2739.47	4536.78	6858.41	9853.11	13557.28	17865.07
3.00	DISCHG	22612.76	27893.66	33106.10	38448.38	43822.03	48814.21	53174.11	56941.05	59948.29	61730.45
4.00	DISCHG	62621.87	62758.69	62035.80	60522.38	58550.73	56247.28	53705.90	50997.08	48243.69	45561.16
5.00	DISCHG	42966.13	40452.50	38035.45	35759.96	33607.15	31557.43	29625.79	27807.39	26077.53	24426.48
6.00	DISCHG	22878.78	21395.58	19987.70	18655.02	17390.82	16182.71	15026.61	13929.16	12874.60	11860.32
7.00	DISCHG	10899.09	9981.00	9102.40	8276.10	7504.32	6768.84	6080.17	5451.30	4866.50	4326.66
8.00	DISCHG	3839.93	3404.89	3006.13	2648.73	2339.46	2062.21	1812.52	1594.99	1407.77	1239.62
9.00	DISCHG	1098.60	962.44	849.74	746.98	656.19	576.85	504.11	437.60	381.89	333.26
10.00	DISCHG	289.65	251.65	219.39	191.15	166.01	144.65	125.96	109.37	94.86	82.33
11.00	DISCHG	71.43	61.71	53.29	45.95	39.50	33.87	28.91	24.59	20.81	17.55
12.00	DISCHG	14.69	12.23	10.17	8.37	6.84	5.58	4.53	3.62	2.86	2.24
13.00	DISCHG	1.71	1.26	.91	.62	.39	.23	.13	.07	.03	.01
14.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.8842 CFS-HRS= 167250.59 ACRE-FT= 13821.59

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.79	26367.639	1591.49

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.01	.04	.10	.27	.69
2.00	DISCHG	1.41	2.65	5.15	9.97	18.11	31.52	52.49	83.23	95.35	100.99
3.00	DISCHG	107.69	114.44	121.44	127.92	134.67	141.66	147.06	152.53	157.95	163.66
4.00	DISCHG	659.99	2690.78	4746.89	7281.01	9623.43	11998.18	14584.28	16856.81	18828.26	20517.54
5.00	DISCHG	21946.40	23135.57	24104.85	24874.62	25464.84	25893.11	26175.83	26328.71	26365.64	26298.63
6.00	DISCHG	26139.18	25898.13	25584.84	25207.96	24775.62	24294.91	23772.00	23212.75	22622.41	22005.35
7.00	DISCHG	21365.98	20708.55	20036.61	19353.82	18664.03	17970.40	17275.66	16583.08	15895.67	15215.78
8.00	DISCHG	14545.91	13888.62	13245.80	12618.90	12009.67	11419.45	10908.85	10496.22	10093.02	9699.92
9.00	DISCHG	9317.29	8945.60	8585.22	8236.17	7898.42	7572.00	7256.80	6952.61	6659.32	6376.84
10.00	DISCHG	6104.95	5843.42	5592.04	5350.57	5118.73	4896.24	4682.82	4478.18	4319.93	4180.21
11.00	DISCHG	4044.71	3913.34	3786.02	3662.64	3543.10	3427.31	3315.17	3206.58	3101.45	2999.66
12.00	DISCHG	2901.14	2805.79	2713.50	2624.21	2537.80	2454.20	2373.33	2295.09	2219.41	2146.21
13.00	DISCHG	2075.40	2006.92	1940.68	1876.62	1814.67	1754.75	1696.81	1640.79	1586.61	1534.21
14.00	DISCHG	1483.55	1434.56	1387.19	1341.38	1297.09	1254.26	1212.84	1172.79	1134.06	1096.61
15.00	DISCHG	1060.40	1025.39	991.53	958.78	927.12	896.51	866.90	838.28	810.60	783.83
16.00	DISCHG	757.95	732.92	708.72	685.31	666.34	659.45	652.63	645.88	639.20	632.59
17.00	DISCHG	626.05	619.58	613.18	606.84	600.56	594.35	588.21	582.13	576.11	570.15
18.00	DISCHG	564.26	558.42	552.65	546.94	541.28	535.69	530.15	524.67	519.24	513.87
19.00	DISCHG	508.56	503.30	498.10	492.95	487.85	482.81	477.82	472.88	467.99	463.15
20.00	DISCHG	458.36	453.62	448.93	444.29	439.70	435.15	430.65	426.20	421.80	417.43
21.00	DISCHG	413.12	408.85	404.62	400.44	396.30	392.20	388.15	384.13	380.16	376.23
22.00	DISCHG	372.34	368.49	364.68	360.91	357.18	353.49	349.83	346.22	342.64	339.09
23.00	DISCHG	335.59	332.12	328.68	325.29	321.92	318.59	315.30	312.04	308.82	305.62
24.00	DISCHG	302.46	299.34	296.24	293.18	290.15	287.15	284.18	281.24	278.33	275.46

25.00	DISCHG	272.61	269.79	267.00	264.24	261.51	258.80	256.13	253.48	250.86	248.27
[illegible]	DISCHG	245.70	243.16	240.64	238.[illegible]	235.69	233.26	230.85	228.46	226.10	[illegible].76
[illegible]	DISCHG	221.45	219.16	216.89	214.6[illegible]	212.43	210.23	208.06	205.91	203.78	[illegible].67
28.[illegible]	DISCHG	199.59	197.52	195.48	193.46	191.46	189.48	187.52	185.58	183.67	[illegible].77
29.00	DISCHG	179.89	178.03	176.19	174.37	172.56	170.78	169.01	167.27	165.54	164.99

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 4.8875 CFS-HRS= 118568.04 ACRE-FT= 9798.46

ENDCMP

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                                                                                                    PASS=  5
EXECUTIVE CONTROL CARD      122   OPERATION  COMPUT,     FROM XSECTN/STRUCT  15/  0     TO XSECTN/STRUCT   0/  1
     STARTING TIME=   .00      RAIN DEPTH=  4.59      RAIN DURATION=  1.00      RAIN TABLE NO.= 5      SOIL CONDITION= 2
   ALTERNATE NO.= 2            STORM NO.= 4


SUBROUTINE RUNOFF     CROSS SECTION  15
          AREA=   1.72      INPUT RUNOFF CURVE=  83.0      TIME OF CONCENTRATION=   .30

          PEAK TIMES                    PEAK DISCHARGES                 PEAK ELEVATIONS
              2.41                         3227.697                       (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.7988        CFS-HRS=      3106.74        ACRE-FT=      256.74


SUBROUTINE REACH      CROSS SECTION 114
          LENGTH=  2700.00      INPUT COEFFICIENT=   .8000      INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   6.800       AVERAGE ROUTING COEFF=  .8000       NUMBER OF ROUTINGS=   .88


SUBROUTINE RUNOFF     CROSS SECTION  14
          AREA=   1.16      INPUT RUNOFF CURVE=  82.0      TIME OF CONCENTRATION=   .25

          PEAK TIMES                    PEAK DISCHARGES                 PEAK ELEVATIONS
              2.37                         2195.740                       (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.7062        CFS-HRS=      2025.95        ACRE-FT=      167.42


SUBROUTINE ADDHYD     CROSS SECTION  14
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                 PEAK ELEVATIONS
              2.48                         4901.140                       (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.7619        CFS-HRS=      5133.42        ACRE-FT=      424.23


SUBROUTINE SAVMOV     CROSS SECTION  14
          INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 5


SUBROUTINE RUNOFF     CROSS SECTION  16
          AREA=   2.24      INPUT RUNOFF CURVE=  85.0      TIME OF CONCENTRATION=   .50

          PEAK TIMES                    PEAK DISCHARGES                 PEAK ELEVATIONS
              2.63                         3323.740                       (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=   2.9853        CFS-HRS=      4315.67        ACRE-FT=      356.65


SUBROUTINE ADDHYD     CROSS SECTION 114
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                 PEAK ELEVATIONS
              2.53                         7937.396                       (NULL)
```

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8596 CFS-HRS= 5449.08 ACRE-FT= 780.87

ROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

ROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.32	3387.801	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.0824 CFS-HRS= 2685.54 ACRE-FT= 221.93

ROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.65	9014.584	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9064 CFS-HRS= 12135.93 ACRE-FT= 1002.91

ROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

ROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 89.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.50	2868.261	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.3755 CFS-HRS= 3115.16 ACRE-FT= 257.44

ROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.80	10477.748	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9912 CFS-HRS= 15250.55 ACRE-FT= 1260.31

ROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 85.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.41	1279.362	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9867 CFS-HRS= 1214.34 ACRE-FT= 100.35

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.86	10837.510	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9910 CFS-HRS= 16465.65 ACRE-FT= 1360.72

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.34	422.184	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7092 CFS-HRS= 367.18 ACRE-FT= 30.34

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.86	10976.180	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.03	.44	2.27	7.06	16.97	35.86	66.85
2.00	DISCHG	116.24	389.90	1413.59	3314.30	5544.72	7591.49	9163.46	10221.56	10868.68	10929.14
3.00	DISCHG	10396.82	9489.83	8420.43	7387.59	6494.00	5771.36	5190.72	4701.22	4285.89	3920.77
4.00	DISCHG	3597.15	3312.34	3061.76	2845.25	2647.66	2465.30	2298.40	2145.04	2005.05	1865.78
5.00	DISCHG	1725.22	1589.68	1464.85	1354.45	1250.35	1150.18	1055.87	969.75	892.70	818.53
6.00	DISCHG	745.89	672.03	590.64	505.80	418.91	334.60	257.09	187.56	129.37	85.19
7.00	DISCHG	54.42	34.29	21.58	13.64	8.65	5.50	3.51	2.25	1.42	.88
8.00	DISCHG	.52	.29	.15	.06	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9843 CFS-HRS= 16832.82 ACRE-FT= 1391.06

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.75	935.348	1983.08

HYDROGRAPH, TZERO= .0 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.01	.05	.15	.36	.78
2.00	DISCHG	1.51	3.56	10.86	41.98	98.06	90.56	93.12	95.57	98.05	100.52
3.00	DISCHG	102.63	104.38	105.96	106.27	107.40	165.18	262.95	349.07	425.30	492.94
4.00	DISCHG	553.01	606.37	653.84	696.13	733.84	767.36	797.05	823.25	846.28	866.31
5.00	DISCHG	883.40	897.63	909.21	918.42	925.48	930.53	933.70	935.16	935.09	933.63
6.00	DISCHG	930.84	926.76	921.33	914.46	906.15	896.41	885.37	873.17	860.03	846.18
7.00	DISCHG	831.91	817.42	802.90	788.46	774.16	760.06	746.16	732.49	719.05	705.85
8.00	DISCHG	693.88	680.14	667.64	655.36	643.31	631.48	619.86	608.46	597.27	586.29
9.00	DISCHG	575.51	564.92	554.53	544.33	534.32	524.50	514.85	505.38	496.09	486.96
10.00	DISCHG	478.01	469.22	460.59	452.11	443.80	435.64	427.63	419.76	412.04	404.46
11.00	DISCHG	397.02	389.72	382.55	375.52	368.61	361.83	355.18	348.65	342.23	335.94
12.00	DISCHG	329.76	323.70	317.74	311.90	306.16	300.53	295.01	289.58	284.25	279.03
13.00	DISCHG	273.89	268.86	263.91	259.06	254.29	249.62	245.03	240.52	236.10	231.75
14.00	DISCHG	227.49	223.31	219.20	215.17	211.21	207.33	203.52	199.77	196.10	192.49
15.00	DISCHG	188.95	185.48	182.07	178.72	175.43	172.20	169.04	165.93	162.88	159.88
16.00	DISCHG	156.94	154.05	151.22	148.44	145.71	143.03	140.40	137.82	135.28	132.79
17.00	DISCHG	130.35	127.95	125.60	123.29	121.02	118.80	116.61	114.47	112.36	110.30
18.00	DISCHG	108.27	107.98	107.96	107.94	107.91	107.89	107.87	107.85	107.83	107.80
19.00	DISCHG	107.78	107.76	107.74	107.72	107.69	107.67	107.65	107.63	107.61	107.58
20.00	DISCHG	107.56	107.54	107.52	107.50	107.47	107.45	107.43	107.41	107.39	107.36
21.00	DISCHG	107.34	107.32	107.30	107.28	107.25	107.23	107.21	107.19	107.17	107.14
22.00	DISCHG	107.12	107.10	107.08	107.06	107.04	107.01	106.99	106.98	106.96	106.95
23.00	DISCHG	106.93	106.91	106.90	106.88	106.87	106.85	106.83	106.82	106.80	106.79
24.00	DISCHG	106.77	106.75	106.74	106.72	106.71	106.69	106.67	106.66	106.64	106.63
25.00	DISCHG	106.61	106.60	106.58	106.56	106.55	106.53	106.52	106.50	106.48	106.47
26.00	DISCHG	106.45	106.44	106.42	106.40	106.39	106.37	106.36	106.34	106.33	106.31
27.00	DISCHG	106.29	106.28	106.26	106.25	106.23	106.21	106.20	106.18	106.17	106.15
28.00	DISCHG	106.14	106.12	106.10	106.09	106.07	106.06	106.04	106.02	106.01	106.00
29.00	DISCHG	106.00	106.00	106.00	106.00	106.00	106.00	106.00	106.00	106.00	106.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4287 CFS-HRS= 8058.57 ACRE-FT= 665.96

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.34	932.174	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3992 CFS-HRS= 7892.07 ACRE-FT= 652.20

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.82	3300.615	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.4478 CFS-HRS= 9273.02 ACRE-FT= 766.32

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH=

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.84	3343.340	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.61

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	5.63	13.84
2.00	DISCHG	22.05	49.71	145.21	240.71	336.21	532.95	761.65	990.35	1246.15	1566.06
3.00	DISCHG	1885.98	2205.94	2445.11	2668.37	2892.00	3063.65	3148.86	3240.06	3335.71	3321.69
4.00	DISCHG	3294.10	3262.86	3191.84	3073.05	2952.73	2831.45	2713.14	2595.77	2484.57	2392.81
5.00	DISCHG	2323.84	2270.23	2226.98	2196.13	2164.19	2128.27	2094.37	2059.84	2019.85	1976.16
6.00	DISCHG	1936.85	1893.33	1845.97	1801.51	1756.93	1709.27	1660.38	1615.27	1567.63	1517.64
7.00	DISCHG	1472.55	1427.90	1381.42	1336.45	1298.11	1258.31	1217.10	1183.34	1150.17	1115.61
8.00	DISCHG	1082.87	1054.64	1025.25	994.94	968.77	942.72	916.25	891.10	867.92	844.76
9.00	DISCHG	821.70	802.20	783.01	764.03	746.25	729.66	713.30	697.22	682.57	668.15
10.00	DISCHG	653.95	640.42	627.45	614.69	602.20	590.36	578.72	567.28	556.26	545.54
11.00	DISCHG	535.00	524.69	514.75	504.98	495.38	486.05	476.93	467.97	459.20	450.65
12.00	DISCHG	442.25	434.01	425.97	418.08	410.34	402.75	395.33	388.05	380.90	373.89
13.00	DISCHG	367.02	360.27	353.64	347.14	340.75	334.49	328.34	322.30	316.37	310.55
14.00	DISCHG	304.84	299.23	293.73	288.33	283.02	277.82	272.71	267.69	262.77	257.94
15.00	DISCHG	253.19	248.54	243.97	239.48	235.08	230.75	226.51	222.34	218.25	214.24
16.00	DISCHG	210.30	206.43	202.64	198.91	195.25	191.66	188.13	184.67	181.28	177.94
17.00	DISCHG	174.67	171.46	168.31	165.21	162.17	159.19	156.26	153.39	150.57	147.80
18.00	DISCHG	145.08	142.41	139.79	137.22	134.70	132.22	129.79	127.40	125.06	122.76
19.00	DISCHG	120.50	118.28	116.11	114.01	112.13	110.60	109.50	108.79	108.36	108.12
20.00	DISCHG	107.99	107.92	107.88	107.85	107.82	107.80	107.78	107.75	107.73	107.71
21.00	DISCHG	107.69	107.67	107.64	107.62	107.60	107.58	107.56	107.53	107.51	107.49
22.00	DISCHG	107.47	107.45	107.42	107.40	107.38	107.36	107.34	107.31	107.29	107.27
23.00	DISCHG	107.25	107.23	107.20	107.18	107.16	107.14	107.12	107.09	107.07	107.05
24.00	DISCHG	107.03	107.01	106.99	106.98	106.96	106.94	106.93	106.91	106.89	106.88
25.00	DISCHG	106.86	106.85	106.83	106.81	106.80	106.78	106.77	106.75	106.73	106.72
26.00	DISCHG	106.70	106.69	106.67	106.65	106.64	106.62	106.61	106.59	106.58	106.56
27.00	DISCHG	106.54	106.53	106.51	106.50	106.48	106.46	106.45	106.43	106.42	106.40
28.00	DISCHG	106.38	106.37	106.35	106.34	106.32	106.31	106.29	106.27	106.26	106.24
29.00	DISCHG	106.23	106.21	106.19	106.18	106.16	106.15	106.13	106.12	106.10	106.08

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8205 CFS-HRS= 17165.09 ACRE-FT= 1418.52

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.11	5174.720	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8920 CFS-HRS= 10302.48 ACRE-FT= 851.40

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.82	8264.541	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8930 CFS-HRS= 24476.87 ACRE-FT= 2022.77

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.74	13297.223	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8927 CFS-HRS= 34779.35 ACRE-FT= 2874.17

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= 1.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.68	4812.259	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7112 CFS-HRS= 12545.50 ACRE-FT= 1036.76

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.72	18087.138	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.12	1.18	2.30	3.42	87.69
2.00	DISCHG	284.62	481.69	751.10	1329.63	2005.63	2776.88	3751.83	5098.03	6598.03	8276.30
3.00	DISCHG	10082.65	11885.77	13523.94	15099.00	16363.00	17096.42	17663.15	18073.22	17913.31	17580.02
4.00	DISCHG	17184.04	16669.71	15923.45	15185.99	14479.98	13774.32	13049.75	12354.50	11680.16	11043.10
5.00	DISCHG	10444.07	9864.80	9296.59	8775.69	8273.60	7778.91	7305.23	6871.70	6444.34	6028.37
6.00	DISCHG	5641.09	5274.11	4915.12	4568.26	4243.69	3930.01	3626.52	3326.49	3051.81	2788.04
7.00	DISCHG	2525.49	2273.40	2055.64	1840.99	1630.36	1454.15	1295.15	1141.15	1001.57	890.67
8.00	DISCHG	786.96	692.92	606.70	540.10	479.64	422.59	372.25	332.22	294.43	257.24
9.00	DISCHG	227.29	201.08	175.18	150.24	133.64	117.22	101.30	87.62	77.65	67.93
10.00	DISCHG	58.77	51.24	45.08	39.36	33.66	29.50	25.90	22.33	18.89	16.64
11.00	DISCHG	14.40	12.15	10.32	8.94	7.55	6.24	5.27	4.45	3.69	2.94
12.00	DISCHG	2.48	2.04	1.62	1.24	1.00	.77	.54	.37	.27	.16
13.00	DISCHG	.06	.03	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8422 CFS-HRS= 47324.85 ACRE-FT= 3910.93

SUBROUTINE REACH CROSS SECTION 3

LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.94	17890.114	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8419 CFS-HRS= 47319.13 ACRE-FT= 3910.45

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.36	4427.099	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.6223 CFS-HRS= 10018.55 ACRE-FT= 827.93

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.89	21358.028	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8009 CFS-HRS= 57337.67 ACRE-FT= 4736.39

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.18	21174.849	(NULL)

TIME		HYDROGRAPH, TZERO= .00					DELTA T= .10		DRAINAGE AREA= 31.72		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.16
2.00	DISCHG	.72	1.67	33.19	129.97	323.14	663.64	1149.75	1880.47	2854.02	4017.84
3.00	DISCHG	5376.80	6966.07	8684.07	10519.75	12414.75	14280.22	16061.71	17660.68	19005.28	20012.55
4.00	DISCHG	20697.12	21089.79	21166.83	20959.12	20551.22	19985.53	19276.48	18473.12	17628.28	16776.42
5.00	DISCHG	15925.49	15086.66	14270.02	13483.24	12733.57	12016.24	11330.06	10676.48	10053.10	9455.91
6.00	DISCHG	8882.86	8338.90	7819.49	7321.17	6845.35	6390.97	5954.95	5535.00	5131.86	4744.52
7.00	DISCHG	4371.22	4012.81	3670.39	3346.57	3037.46	2744.01	2471.09	2215.49	1977.59	1759.98
8.00	DISCHG	1563.14	1383.82	1221.08	1077.27	950.16	836.97	736.33	648.67	572.61	505.26
9.00	DISCHG	445.78	393.93	348.16	307.00	270.34	237.95	208.61	182.03	158.99	139.00
10.00	DISCHG	121.20	105.45	91.95	80.29	69.98	60.95	53.16	46.34	40.26	34.98
11.00	DISCHG	30.46	26.45	22.86	19.77	17.10	14.71	12.59	10.77	9.18	7.77
12.00	DISCHG	6.54	5.51	4.61	3.81	3.15	2.60	2.12	1.70	1.35	1.06
13.00	DISCHG	.81	.60	.43	.30	.19	.11	.06	.03	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8008 CFS-HRS= 57334.73 ACRE-FT= 4738.14

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.15	24397.879	1591.06

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	5.64	14.00
2.00	DISCHG	22.77	51.39	178.40	370.68	659.35	1196.59	1911.40	2870.82	4100.18	5583.90
3.00	DISCHG	7262.78	9172.01	11129.19	13188.12	15306.75	17343.87	19210.58	20900.74	22340.98	23334.25
4.00	DISCHG	23991.22	24352.66	24358.67	24032.17	23503.95	22816.98	21989.62	21068.89	20112.85	19169.23
5.00	DISCHG	18249.33	17356.90	16497.01	15679.38	14897.76	14144.51	13424.44	12736.32	12072.95	11432.07
6.00	DISCHG	10819.71	10232.23	9665.46	9122.68	8602.29	8100.24	7615.33	7150.27	6699.48	6262.16
7.00	DISCHG	5843.76	5440.71	5051.82	4683.02	4335.57	4002.32	3688.19	3398.84	3127.77	2875.59
8.00	DISCHG	2646.01	2438.46	2246.33	2072.11	1918.93	1779.69	1652.58	1539.77	1440.53	1350.02
9.00	DISCHG	1267.48	1196.12	1131.17	1071.02	1016.58	967.61	921.91	879.25	841.56	807.15
10.00	DISCHG	775.15	745.87	719.41	694.98	672.18	651.31	631.88	613.62	596.51	580.52
11.00	DISCHG	565.46	551.14	537.61	524.75	512.48	500.76	489.52	478.75	468.38	458.42
12.00	DISCHG	448.80	439.52	430.57	421.89	413.49	405.35	397.45	389.75	382.25	374.95
13.00	DISCHG	367.83	360.87	354.07	347.43	340.94	334.59	328.39	322.33	316.38	310.55
14.00	DISCHG	304.84	299.23	293.73	288.33	283.02	277.82	272.71	267.69	262.77	257.94
15.00	DISCHG	253.19	248.54	243.97	239.48	235.08	230.75	226.51	222.34	218.25	214.24
16.00	DISCHG	210.30	206.43	202.64	198.91	195.25	191.66	188.13	184.67	181.28	177.94
17.00	DISCHG	174.67	171.46	168.31	165.21	162.17	159.19	156.26	153.39	150.57	147.80
18.00	DISCHG	145.08	142.41	139.79	137.22	134.70	132.22	129.79	127.40	125.06	122.76
19.00	DISCHG	120.50	118.28	116.11	114.01	112.13	110.60	109.50	108.79	108.36	108.12
20.00	DISCHG	107.99	107.92	107.88	107.85	107.82	107.80	107.78	107.75	107.73	107.71
21.00	DISCHG	107.69	107.67	107.64	107.62	107.60	107.58	107.56	107.53	107.51	107.49
22.00	DISCHG	107.47	107.45	107.42	107.40	107.38	107.36	107.34	107.31	107.29	107.27
23.00	DISCHG	107.25	107.23	107.20	107.18	107.16	107.14	107.12	107.09	107.07	107.05
24.00	DISCHG	107.03	107.01	106.99	106.98	106.96	106.94	106.93	106.91	106.89	106.88
25.00	DISCHG	106.86	106.85	106.83	106.81	106.80	106.78	106.77	106.75	106.73	106.72
26.00	DISCHG	106.70	106.69	106.67	106.65	106.64	106.62	106.61	106.59	106.58	106.56
27.00	DISCHG	106.54	106.53	106.51	106.50	106.48	106.46	106.45	106.43	106.42	106.40
28.00	DISCHG	106.38	106.37	106.35	106.34	106.32	106.31	106.29	106.27	106.26	106.24
29.00	DISCHG	106.23	106.21	106.19	106.18	106.16	106.15	106.13	106.12	106.10	106.08

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.4916 CFS-HRS= 74499.79 ACRE-FT= 6156.66

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
7.72	3357.372	1585.53

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05
2.00	DISCHG	.11	.25	.68	1.69	3.59	7.01	12.74	21.54	34.37	52.17
3.00	DISCHG	75.75	93.36	96.99	101.35	106.35	110.70	115.58	120.31	124.22	128.35
4.00	DISCHG	132.28	136.09	139.91	142.83	145.34	147.78	150.13	152.12	154.02	155.83
5.00	DISCHG	157.55	159.20	160.78	162.28	163.71	172.53	313.27	445.26	568.91	720.81
6.00	DISCHG	1064.40	1376.84	1659.90	1915.30	2144.70	2349.65	2531.54	2691.74	2831.52	2952.03

7.00	DISCHG	3054.43	3139.88	3209.44	3264.19	3305.30	3333.82	3350.71	3357.08	3353.98	3342.35
8.00	DISCHG	3323.14	3297.36	3265.82	3229.28	[illegible]	3144.31	3097.15	3047.59	2996.16	29[illegible]
9.00	DISCHG	2889.32	2834.59	2779.41	2723.99	[illegible]	2613.15	2558.05	2503.32	2449.07	239[illegible]
10.00	DISCHG	2342.44	2290.20	2238.77	2188.19	[illegible]	2089.74	2041.92	1995.06	1949.16	1904.[illegible]
11.00	DISCHG	1860.27	1817.28	1775.24	1734.16	1694.02	1654.81	1616.52	1579.12	1542.62	1506.98
12.00	DISCHG	1472.19	1438.25	1405.12	1372.79	1341.26	1310.48	1280.46	1251.18	1222.61	1194.74
13.00	DISCHG	1167.55	1141.03	1115.15	1089.91	1065.29	1041.26	1017.82	994.96	972.65	950.88
14.00	DISCHG	929.64	908.92	888.69	868.96	849.70	830.90	812.55	794.64	777.16	760.09
15.00	DISCHG	743.43	727.17	711.29	695.78	680.64	667.33	652.79	638.26	623.73	609.21
16.00	DISCHG	644.69	640.18	635.68	631.18	626.69	622.21	617.74	613.28	608.83	604.40
17.00	DISCHG	599.97	595.56	591.16	586.77	582.39	578.03	573.69	569.36	565.04	560.74
18.00	DISCHG	556.46	552.19	547.94	543.71	539.49	535.30	531.12	526.95	522.81	518.69
19.00	DISCHG	514.58	510.50	506.43	502.38	498.36	494.36	490.38	486.44	482.54	478.67
20.00	DISCHG	474.83	471.04	467.29	463.57	459.89	456.25	452.65	449.08	445.55	442.06
21.00	DISCHG	438.60	435.18	431.80	428.45	425.13	421.85	418.60	415.38	412.20	409.05
22.00	DISCHG	405.93	402.84	399.79	396.77	393.77	390.81	387.88	384.98	382.11	379.27
23.00	DISCHG	376.46	373.67	370.92	368.19	365.49	362.82	360.18	357.56	354.97	352.41
24.00	DISCHG	349.87	347.36	344.88	342.42	339.98	337.57	335.19	332.83	330.49	328.18
25.00	DISCHG	325.89	323.63	321.39	319.17	316.97	314.80	312.65	310.52	308.41	306.33
26.00	DISCHG	304.26	302.22	300.20	298.20	296.22	294.26	292.32	290.40	288.50	286.62
27.00	DISCHG	284.75	282.91	281.09	279.28	277.50	275.73	273.98	272.25	270.53	268.84
28.00	DISCHG	267.16	265.49	263.85	262.22	260.61	259.01	257.43	255.87	254.32	252.79
29.00	DISCHG	251.28	249.78	248.29	246.82	245.37	243.93	242.51	241.10	239.70	238.32

TOTAL WATER. IN INCHES ON DRAINAGE AREA= .8391 CFS-HRS= 25088.16 ACRE-FT= 2073.29

ENDCMP

PASS= 6

EXE[redacted]IVE CONTROL CARD 124 OPERATION COMPUT. F[redacted] XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
[redacted]TARTING TIME= .00 RAIN DEPTH= 8.73 RAIN[redacted]ATION= 1.00 RAIN TABLE NO.= 5 SOIL CONDI[redacted] 2
ALTERNATE NO.= 2 STORM NO.= 5

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.72 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.38	8278.271	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6591 CFS-HRS= 7391.83 ACRE-FT= 610.86

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.34	5961.369	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.5299 CFS-HRS= 4888.44 ACRE-FT= 403.38

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.44	12856.540	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6088 CFS-HRS= 12283.56 ACRE-FT= 1015.11

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 85.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.60	8115.477	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9058 CFS-HRS= 9983.22 ACRE-FT= 825.01

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.50	19959.652	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7397 CFS-HRS= 22266.78 ACRE-FT= 1840.13

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.31	8176.008	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.0306 CFS-HRS= 6125.39 ACRE-FT= 506.20

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.62	22540.614	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.8006 CFS-HRS= 28396.25 ACRE-FT= 2346.67

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 89.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.48	6499.259	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.3926 CFS-HRS= 6822.51 ACRE-FT= 563.81

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.77	25682.537	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9079 CFS-HRS= 35219.37 ACRE-FT= 2910.53

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1900.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 85.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.39	3140.831	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9080 CFS-HRS= 2808.67 ACRE-FT= 232.11

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.83	26481.370	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9082 CFS-HRS= 38029.58 ACRE-FT= 3142.76

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.33	1122.193	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.5380 CFS-HRS= 886.08 ACRE-FT= 73.23

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.83	26795.482	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
1.00	DISCHG	.88	4.69	17.30	46.76	98.85	170.87	259.90	372.72	517.11	701.65
2.00	DISCHG	946.93	1904.49	4806.85	9561.01	14840.57	19552.23	23151.33	25533.39	26743.09	26351.06
3.00	DISCHG	24493.03	21837.03	18964.62	16334.63	14142.57	12414.54	11054.14	9931.43	8995.74	8186.72
4.00	DISCHG	7479.38	6863.28	6325.03	5861.53	5440.74	5055.30	4705.40	4385.78	4094.97	3806.60
5.00	DISCHG	3516.71	3238.10	2981.82	2754.87	2540.87	2335.65	2143.30	1968.01	1811.09	1659.86
6.00	DISCHG	1511.91	1361.81	1196.88	1025.51	850.16	679.66	522.35	380.95	262.55	172.73
7.00	DISCHG	110.24	69.40	43.64	27.58	17.49	11.12	7.10	4.54	2.87	1.78
8.00	DISCHG	1.05	.59	.29	.13	.04	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.8993 CFS-HRS= 38915.66 ACRE-FT= 3215.99

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES 3.89 PEAK DISCHARGES 8306.960 PEAK ELEVATIONS 1988.92

HYDROGRAPH, TZERO= .0 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.03	.12	.38	.96	2.05	3.79	6.33	9.89	14.77
2.00	DISCHG	25.93	47.37	87.69	90.51	94.17	98.23	102.76	106.03	377.84	859.13
3.00	DISCHG	1371.13	3122.73	4511.39	5586.95	6637.74	7360.74	7836.90	8126.05	8271.67	8306.46
4.00	DISCHG	8254.92	8136.95	7968.98	7764.77	7534.65	7285.71	7023.83	6754.02	6480.36	6204.96
5.00	DISCHG	5928.06	5650.37	5409.97	5205.70	5000.12	4794.22	4588.89	4385.29	4184.71	3987.66
6.00	DISCHG	3794.81	3605.30	3418.36	3232.93	3048.47	2864.94	2682.98	2503.65	2328.29	2158.65
7.00	DISCHG	1996.53	1843.28	1699.69	1565.94	1441.89	1327.15	1276.57	1253.20	1230.22	1207.64
8.00	DISCHG	1185.46	1163.67	1142.28	1121.27	1100.65	1080.41	1060.54	1041.03	1021.89	1003.09
9.00	DISCHG	984.65	966.54	948.76	931.31	914.18	897.37	880.87	864.67	848.76	833.15
10.00	DISCHG	817.83	802.79	788.02	773.53	759.31	745.34	731.63	718.18	704.97	692.00
11.00	DISCHG	679.28	666.78	654.52	642.48	630.67	619.07	607.68	596.51	585.54	574.77
12.00	DISCHG	564.20	553.82	543.63	533.64	523.82	514.19	504.73	495.45	486.34	477.39
13.00	DISCHG	468.61	459.99	451.53	443.23	435.08	427.08	419.22	411.51	403.94	396.51
14.00	DISCHG	389.22	382.06	375.04	368.14	361.37	354.72	348.20	341.79	335.51	329.34
15.00	DISCHG	323.28	317.34	311.50	305.77	300.15	294.63	289.21	283.89	278.67	273.54
16.00	DISCHG	268.51	263.57	258.73	253.97	249.30	244.71	240.21	235.79	231.46	227.20
17.00	DISCHG	223.02	218.92	214.89	210.94	207.06	203.25	199.52	195.85	192.24	188.71
18.00	DISCHG	185.24	181.83	178.49	175.20	171.98	168.82	165.71	162.67	159.68	156.74
19.00	DISCHG	153.86	151.03	148.25	145.52	142.85	140.22	137.64	135.11	132.62	130.18
20.00	DISCHG	127.79	125.44	123.13	120.87	118.65	116.46	114.32	112.22	110.16	108.13
21.00	DISCHG	107.98	107.96	107.94	107.91	107.89	107.87	107.85	107.82	107.80	107.78
22.00	DISCHG	107.76	107.74	107.71	107.69	107.67	107.65	107.63	107.60	107.58	107.56
23.00	DISCHG	107.54	107.52	107.49	107.47	107.45	107.43	107.41	107.38	107.36	107.34
24.00	DISCHG	107.32	107.30	107.27	107.25	107.23	107.21	107.19	107.17	107.14	107.12
25.00	DISCHG	107.10	107.08	107.06	107.03	107.01	106.99	106.98	106.96	106.94	106.93
26.00	DISCHG	106.91	106.90	106.88	106.87	106.85	106.83	106.82	106.80	106.79	106.77
27.00	DISCHG	106.75	106.74	106.72	106.71	106.69	106.67	106.66	106.64	106.63	106.61
28.00	DISCHG	106.59	106.58	106.56	106.55	106.53	106.51	106.50	106.48	106.47	106.45
29.00	DISCHG	106.44	106.42	106.40	106.39	106.37	106.36	106.34	106.32	106.31	106.29

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 5.2909 CFS-HRS= 29843.39 ACRE-FT= 2466.26

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES 5.52 PEAK DISCHARGES 8104.249 PEAK ELEVATIONS (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 5.2598 CFS-HRS= 29668.08 ACRE-FT= 2451.77

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES 3.79 PEAK DISCHARGES 8618.797 PEAK ELEVATIONS (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.1799 CFS-HRS= 23411.31 ACRE-FT= 1934.71

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.79	8690.482	(NULL)
5.30	12109.849	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.61

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.01	.03	.04	.41	2.75	5.10	7.45	43.21	94.27
2.00	DISCHG	145.33	255.33	570.85	886.36	1201.87	1785.58	2454.02	3122.55	3841.35	4678.94
3.00	DISCHG	5516.94	6355.51	6922.04	7435.97	7953.11	8325.10	8447.05	8569.32	8689.57	8526.42
4.00	DISCHG	8338.86	8180.56	8012.00	7871.05	7939.52	8263.00	8847.48	9555.39	10276.80	10941.69
5.00	DISCHG	11484.19	11851.85	12044.93	12109.40	12036.43	11850.93	11598.34	11291.52	10931.70	10536.12
6.00	DISCHG	10137.48	9718.01	9284.14	8858.32	8435.99	8014.35	7604.83	7224.65	6857.82	6502.07
7.00	DISCHG	6171.08	5851.31	5535.48	5230.29	4947.05	4667.01	4389.98	4135.33	3887.27	3641.05
8.00	DISCHG	3403.53	3180.69	2960.53	2744.06	2543.61	2350.73	2165.23	1991.55	1832.75	1688.92
9.00	DISCHG	1565.55	1472.84	1400.85	1344.38	1300.38	1264.69	1232.47	1202.27	1175.75	1149.92
10.00	DISCHG	1124.59	1100.67	1077.86	1055.42	1033.47	1012.83	992.54	972.59	953.43	934.85
11.00	DISCHG	916.59	898.73	881.57	864.71	848.15	832.09	816.40	800.99	785.90	771.22
12.00	DISCHG	756.81	742.66	728.87	715.35	702.08	689.09	676.39	663.93	651.69	639.70
13.00	DISCHG	627.94	616.39	605.05	593.93	583.00	572.28	561.76	551.42	541.28	531.33
14.00	DISCHG	521.56	511.96	502.55	493.31	484.23	475.33	466.58	458.00	449.58	441.31
15.00	DISCHG	433.20	425.23	417.41	409.73	402.20	394.80	387.54	380.41	373.41	366.55
16.00	DISCHG	359.81	353.19	346.69	340.32	334.06	327.91	321.88	315.96	310.15	304.45
17.00	DISCHG	298.85	293.35	287.96	282.66	277.46	272.36	267.35	262.43	257.61	252.87
18.00	DISCHG	248.22	243.65	239.17	234.77	230.46	226.22	222.06	217.97	213.96	210.03
19.00	DISCHG	206.17	202.37	198.65	195.00	191.41	187.89	184.44	181.04	177.72	174.45
20.00	DISCHG	171.24	168.09	165.00	161.96	158.98	156.06	153.19	150.37	147.61	144.89
21.00	DISCHG	142.23	139.61	137.04	134.52	132.05	129.62	127.24	124.90	122.60	120.35
22.00	DISCHG	118.13	115.96	113.87	112.00	110.50	109.43	108.74	108.33	108.11	107.99
23.00	DISCHG	107.92	107.88	107.85	107.82	107.80	107.77	107.75	107.73	107.71	107.69
24.00	DISCHG	107.66	107.64	107.62	107.60	107.58	107.55	107.53	107.51	107.49	107.47
25.00	DISCHG	107.44	107.42	107.40	107.38	107.36	107.33	107.31	107.29	107.27	107.25
26.00	DISCHG	107.22	107.20	107.18	107.16	107.14	107.12	107.09	107.07	107.05	107.03
27.00	DISCHG	107.01	106.99	106.97	106.96	106.94	106.92	106.91	106.89	106.88	106.86
28.00	DISCHG	106.84	106.83	106.81	106.80	106.78	106.77	106.75	106.73	106.72	106.70
29.00	DISCHG	106.69	106.67	106.65	106.64	106.62	106.61	106.59	106.57	106.56	106.54

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 5.6295 CFS-HRS= 53079.39 ACRE-FT= 4386.48

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.04	12754.346	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7846 CFS-HRS= 24169.89 ACRE-FT= 1997.40

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.74	20075.049	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7869 CFS-HRS= 57422.37 ACRE-FT= 4745.38

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.70	32317.870	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7862 CFS-HRS= 81592.26 ACRE-FT= 6742.78

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.45	11960.846	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.5460 CFS-HRS= 30290.16 ACRE-FT= 2503.18

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.69	44178.167	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.02	.05	3.75	9.92	17.01	26.77	62.73	104.71	148.11	451.25
2.00	DISCHG	1102.02	1760.08	2623.39	4300.46	6238.74	8424.07	11119.47	14679.66	18593.79	22833.71
3.00	DISCHG	27320.07	31612.37	35355.86	38878.72	41549.14	42830.46	43687.79	44162.98	43289.33	42020.99
4.00	DISCHG	40633.54	39053.16	36993.09	34977.30	33085.21	31246.10	29427.52	27701.80	26038.27	24493.86
5.00	DISCHG	23066.89	21695.16	20353.07	19145.52	17990.35	16853.83	15772.77	14800.53	13843.05	12913.45
6.00	DISCHG	12056.05	11249.29	10461.14	9701.93	8997.82	8320.13	7666.91	7021.94	6436.86	5876.94
7.00	DISCHG	5319.84	4785.86	4326.93	3874.47	3430.28	3059.34	2724.93	2400.77	2106.59	1873.42
8.00	DISCHG	1654.37	1456.63	1275.36	1135.14	1008.01	888.08	782.00	697.32	617.28	538.47
9.00	DISCHG	474.74	418.81	363.51	310.20	275.71	241.56	208.47	180.05	159.50	139.45
10.00	DISCHG	120.57	105.07	92.41	80.64	68.93	60.38	53.02	45.67	38.61	34.02
11.00	DISCHG	29.42	24.82	21.07	18.24	15.41	12.72	10.74	9.08	7.52	5.99
12.00	DISCHG	5.05	4.16	3.29	2.52	2.04	1.57	1.09	.76	.54	.33
13.00	DISCHG	.12	.06	.04	.02	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7194 CFS-HRS= 111882.41 ACRE-FT= 9245.96

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.89	43724.010	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7187 CFS-HRS= 111870.04 ACRE-FT= 9244.94

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.23	11340.293	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.4252 CFS-HRS= 24547.88 ACRE-FT= 2028.64

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.81	52256.112	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6639 CFS-HRS= 136417.91 ACRE-FT= 11273.58

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.10	51884.330	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.01	.82	3.35	9.36	19.97	37.29
2.00	DISCHG	72.36	123.99	207.08	667.38	1348.02	2461.02	3987.96	6156.85	8953.82	12212.18
3.00	DISCHG	15894.15	20088.71	24499.17	29093.47	33722.89	38144.20	42221.89	45737.68	48531.48	50437.70
4.00	DISCHG	51522.02	51885.24	51502.12	50457.11	48971.97	47166.88	45085.45	42840.39	40550.37	38300.51
5.00	DISCHG	36108.70	33992.81	31965.82	30040.23	28230.87	26519.26	24897.40	23367.84	21922.49	20548.20
6.00	DISCHG	19238.55	18005.59	16836.82	15722.08	14663.95	13659.38	12700.15	11780.18	10901.19	10060.69
7.00	DISCHG	9254.09	8482.93	7749.56	7059.00	6401.99	5779.79	5202.52	4662.89	4161.17	3702.64
8.00	DISCHG	3288.19	2910.75	2568.17	2265.36	1997.70	1759.45	1547.69	1363.31	1203.33	1061.70
9.00	DISCHG	936.53	827.24	730.62	643.56	565.85	497.05	434.60	378.02	329.21	287.19
10.00	DISCHG	249.98	217.18	189.16	165.02	143.72	125.10	109.04	95.00	82.50	71.66
11.00	DISCHG	62.37	54.14	46.77	40.43	34.95	30.05	25.72	22.00	18.74	15.85
12.00	DISCHG	13.35	11.23	9.39	7.77	6.42	5.29	4.31	3.46	2.75	2.16
13.00	DISCHG	1.65	1.22	.88	.60	.38	.22	.12	.06	.03	.01
14.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6635 CFS-HRS= 136409.71 ACRE-FT= 11272.90

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.08	60084.539	1598.98

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10			DRAINAGE AREA= 46.33		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.01	.03	.04	.41	3.57	8.45	16.82	63.18	131.56
2.00	DISCHG	217.69	379.33	857.93	1553.74	2549.90	4246.61	6441.98	9279.40	12795.17	16891.12
3.00	DISCHG	21411.09	26444.22	31421.21	36529.44	41675.99	46469.30	50668.94	54307.00	57221.05	58964.12
4.00	DISCHG	59860.87	60065.79	59514.12	58328.16	56911.48	55429.88	53932.93	52395.78	50827.17	49242.19
5.00	DISCHG	47592.89	45844.66	44010.75	42149.64	40267.30	38370.19	36495.74	34659.36	32854.19	31084.32
6.00	DISCHG	29376.03	27723.60	26120.96	24580.40	23099.93	21673.73	20304.98	19004.83	17759.01	16562.76
7.00	DISCHG	15425.17	14334.24	13285.04	12289.29	11349.04	10446.80	9592.50	8798.21	8048.44	7343.69
8.00	DISCHG	6691.72	6091.44	5528.71	5009.42	4541.31	4110.18	3712.92	3354.86	3036.09	2750.62
9.00	DISCHG	2502.08	2300.08	2131.47	1987.94	1866.24	1761.74	1667.07	1580.29	1504.97	1437.11
10.00	DISCHG	1374.57	1317.85	1267.02	1220.44	1177.20	1137.93	1101.58	1067.59	1035.93	1006.51
11.00	DISCHG	978.96	952.87	928.34	905.14	883.10	862.14	842.12	822.98	804.64	787.08
12.00	DISCHG	770.16	753.89	738.26	723.13	708.50	694.38	680.70	667.38	654.44	641.86
13.00	DISCHG	629.58	617.61	605.93	594.53	583.38	572.50	561.88	551.49	541.31	531.34
14.00	DISCHG	521.56	511.96	502.55	493.31	484.23	475.33	466.58	458.00	449.58	441.31
15.00	DISCHG	433.20	425.23	417.41	409.73	402.20	394.80	387.54	380.41	373.41	366.55
16.00	DISCHG	359.81	353.19	346.69	340.32	334.06	327.91	321.88	315.96	310.15	304.45
17.00	DISCHG	298.85	293.35	287.96	282.66	277.46	272.36	267.35	262.43	257.61	252.87
18.00	DISCHG	248.22	243.65	239.17	234.77	230.46	226.22	222.06	217.97	213.96	210.03
19.00	DISCHG	206.17	202.37	198.65	195.00	191.41	187.89	184.44	181.04	177.72	174.45
20.00	DISCHG	171.24	168.09	165.00	161.96	158.98	156.06	153.19	150.37	147.61	144.89
21.00	DISCHG	142.23	139.61	137.04	134.52	132.05	129.62	127.24	124.90	122.60	120.35
22.00	DISCHG	118.13	115.96	113.87	112.00	110.50	109.43	108.74	108.33	108.11	107.99
23.00	DISCHG	107.92	107.88	107.85	107.82	107.80	107.77	107.75	107.73	107.71	107.69
24.00	DISCHG	107.66	107.64	107.62	107.60	107.58	107.55	107.53	107.51	107.49	107.47
25.00	DISCHG	107.44	107.42	107.40	107.38	107.36	107.33	107.31	107.29	107.27	107.25
26.00	DISCHG	107.22	107.20	107.18	107.16	107.14	107.12	107.09	107.07	107.05	107.03
27.00	DISCHG	107.01	106.99	106.97	106.96	106.94	106.92	106.91	106.89	106.88	106.86
28.00	DISCHG	106.84	106.83	106.81	106.80	106.78	106.77	106.75	106.73	106.72	106.70
29.00	DISCHG	106.69	106.67	106.65	106.64	106.62	106.61	106.59	106.57	106.56	106.54

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.3374 CFS-HRS= 189489.06 ACRE-FT= 15659.38

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
6.04	28678.887	1592.01

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10			DRAINAGE AREA= 46.33		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.01	.03	.08	.23	.58
2.00	DISCHG	1.23	2.33	4.61	9.06	16.62	29.14	48.82	77.74	94.57	99.90
3.00	DISCHG	106.59	112.98	120.17	126.32	132.96	139.91	145.41	150.85	156.02	161.45
4.00	DISCHG	388.68	1743.11	3659.92	5863.21	8193.27	10334.36	12746.19	15179.23	17370.49	19335.97

5.00	DISCHG	21085.86	22628.25	23970.05	25119.95	26088.03	26884.15	27518.89	28003.80	28349.97	28567.75
6.00	DISCHG	28667.78	28660.68	28556.08	28363.2	28091.04	27747.81	27341.14	26878.64	26367.37	25[illegible].40
7.00	DISCHG	25222.54	24600.19	23950.90	23279.16	[illegible]589.59	21886.07	21172.05	20451.38	19727.63	19[illegible].67
8.00	DISCHG	18282.45	17566.95	16859.51	16162.09	15476.93	14805.94	14150.40	13511.58	12890.84	122[illegible].27
9.00	DISCHG	11707.83	11147.82	10731.16	10342.45	9965.22	9599.83	9246.36	8904.66	8574.65	8256.22
10.00	DISCHG	7949.14	7653.16	7368.03	7093.50	6829.26	6575.02	6330.48	6095.33	5869.24	5651.92
11.00	DISCHG	5443.07	5242.38	5049.54	4864.28	4686.32	4515.36	4370.86	4254.02	4140.42	4029.98
12.00	DISCHG	3922.61	3818.25	3716.80	3618.19	3522.35	3429.20	3338.66	3250.67	3165.16	3082.04
13.00	DISCHG	3001.26	2922.74	2846.43	2772.26	2700.16	2630.08	2561.96	2495.74	2431.37	2368.79
14.00	DISCHG	2307.96	2248.81	2191.30	2135.38	2081.01	2028.13	1976.71	1926.70	1878.06	1830.76
15.00	DISCHG	1784.74	1739.98	1696.43	1654.07	1612.86	1572.76	1533.74	1495.77	1458.82	1422.87
16.00	DISCHG	1387.88	1353.82	1320.67	1288.40	1256.99	1226.41	1196.64	1167.66	1139.44	1111.96
17.00	DISCHG	1085.20	1059.14	1033.77	1009.05	984.98	961.53	938.69	916.44	894.76	873.65
18.00	DISCHG	853.07	833.02	813.48	794.45	775.89	757.81	740.19	723.01	706.27	689.95
19.00	DISCHG	674.04	665.03	660.23	655.44	650.66	645.89	641.14	636.40	631.68	626.97
20.00	DISCHG	622.27	617.59	612.93	608.28	603.65	599.04	594.44	589.87	585.31	580.77
21.00	DISCHG	576.25	571.75	567.27	562.81	558.37	553.95	549.55	545.17	540.81	536.48
22.00	DISCHG	532.16	527.87	523.60	519.35	515.13	510.95	506.79	502.67	498.60	494.56
23.00	DISCHG	490.56	486.60	482.69	478.81	474.98	471.18	467.42	463.70	460.02	456.38
24.00	DISCHG	452.78	449.21	445.68	442.18	438.72	435.30	431.91	428.56	425.24	421.95
25.00	DISCHG	418.70	415.48	412.30	409.14	406.02	402.94	399.88	396.85	393.86	390.90
26.00	DISCHG	387.96	385.06	382.19	379.35	376.53	373.75	370.99	368.26	365.56	362.89
27.00	DISCHG	360.24	357.62	355.03	352.47	349.93	347.42	344.93	342.47	340.03	337.62
28.00	DISCHG	335.24	332.88	330.54	328.23	325.94	323.67	321.43	319.21	317.01	314.84
29.00	DISCHG	312.68	310.55	308.45	306.36	304.29	302.25	300.23	298.23	296.24	294.28

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 4.6669 CFS-HRS= 139540.84 ACRE-FT= 11531.66

ENDCMP

CHANGES TO STANDARD CONTROL LIST FOLLOW
EXECUTIVE CONTROL CARD 126 OPERATION ALTER

```
STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=  15     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=          1.7100     80.0000        .3000
OUTPUT OPTION= 1 0 0 1 0 IID=      127

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=  14     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=          1.1600     79.0000        .2500
OUTPUT OPTION= 1 0 0 1 0 IID=      128

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=  16     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=          2.2400     82.0000        .5900
OUTPUT OPTION= 1 0 0 1 0 IID=      129

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=  13     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=          1.3500     83.0000        .2100
OUTPUT OPTION= 1 0 0 1 0 IID=      130

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=  12     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=          1.4300     86.0000        .4500
OUTPUT OPTION= 1 0 0 1 0 IID=      131

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=  11     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=           .6300     82.0000        .3100
OUTPUT OPTION= 1 0 0 1 0 IID=      132

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=  17     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=           .2100     79.0000        .2300
OUTPUT OPTION= 1 0 0 1 0 IID=      133

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=   2     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=          5.8700     75.0000       2.0200
OUTPUT OPTION= 1 0 0 1 0 IID=      134

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=   5     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=          5.5200     81.0000       1.1800
OUTPUT OPTION= 1 0 0 1 0 IID=      135

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=   4     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=         13.1100     81.0000       2.1700
OUTPUT OPTION= 1 0 0 1 0 IID=      136

STANDARD CONTROL CARD, SUBROUTINE RUNOFF,     CROSS-SECTION=   6     STRUCTURE=  0
IN1 HYD=0     IN2 HYD=0     OUT HYD=6     DATA FIELDS=          7.1700     79.0000       1.8000
OUTPUT OPTION= 1 0 0 1 0 IID=      137
```

STA[illegible]RD CONTROL CARD, SUBROUTINE RUNOFF, CROSS-SECTI[illegible] 3 STRUCTURE= 0
IN1 HYD=0 IN2 HYD=0 OUT HYD=6 DATA FIELDS= 5.9200 78.0000 1.4100
OUTPUT OPTION= 1 0 0 1 0 IID= 138

EXECUTIVE CONTROL CARD 139 OPERATION LIST

LISTING OF DATA IN CORE

0 -POWERLINE DAM ANALYSIS, SEPT 1985

		VELOCITY INCREMENT			
1 CTABLE		.2000			
8	.0000	.0800	.1800	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6900	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300
9 ENDTBL					

STRUCT NO.
3 STRUCT 1

	ELEVATION	DISCHARGE	STORAGE
8	1568.2000	.0000	175.0000
8	1570.1000	92.0000	380.0000
8	1572.1000	106.0000	700.0000
8	1574.1000	119.0000	1100.0000
8	1576.1000	130.0000	1600.0000
8	1578.1000	141.0000	2175.0000
8	1580.1000	150.0000	2875.0000
8	1582.1000	159.0000	3675.0000
8	1583.3000	165.0000	4199.9999
8	1584.1000	668.0000	4599.9999
8	1586.1000	4426.0000	5524.9999
8	1588.1000	11084.0000	6724.9999
8	1590.1000	20092.0000	7924.9999
9 ENDTBL			

STRUCT NO.
3 STRUCT 7

```
                        ELEVATION    DISCHARGE      STOR.
8                       1967.0000        .0000        .0000
8                       1967.5000      16.0000      16.2000
8                       1968.0000      46.0000      32.5000
8                       1968.5000      87.0000      49.7000
8                       1969.0000      88.0000      65.0000
8                       1970.5000      91.0000     129.3000
8                       1972.1000      94.0000     212.9000
8                       1975.2000     100.0000     421.9000
8                       1976.7000     103.0000     545.9000
8                       1977.8000     105.0000     641.5000
8                       1978.3000     106.0000     686.7000
8                       1978.8000     106.0000     734.3000
8                       1979.3000     107.0000     799.7000
8                       1979.8000     108.0000     830.1000
8                       1984.5000    1293.0000    1357.7000
8                       1987.6000    5512.0000    1774.1000
8                       1990.7000   12053.0000    2243.6000
8                       1996.7000   31953.0000    3357.8000
8                       2000.0000   45388.0000    4029.1000
9 ENDTBL


                    TIME INCREMENT
4 DIMHYD

8                  .0000       .0300       .1000       .1900       .3100
8                  .4700       .6600       .8200       .9300       .9900
8                 1.0000       .9900       .9300       .8600       .7800
8                  .6800       .5600       .4600       .3900       .3300
8                  .2800       .2410       .2070       .1740       .1470
8                  .1260       .1070       .0910       .0770       .0660
8                  .0550       .0470       .0400       .0340       .0290
8                  .0250       .0210       .0180       .0150       .0130
8                  .0110       .0090       .0080       .0070       .0060
8                  .0050       .0040       .0030       .0020       .0010
8                  .0000       .0000       .0000       .0000       .0000
9 ENDTBL

  COMPUTED PEAK K FACTOR =  484.00


                    TIME INCREMENT
5 RAINFL 1                   .5000

8                  .0000       .0080       .0170       .0260       .0350
8                  .0450       .0550       .0650       .0760       .0870
8                  .0990       .1120       .1250       .1400       .1560
8                  .1740       .1940       .2190       .2540       .3030
8                  .5150       .5830       .6240       .6540       .6820
8                  .7050       .7270       .7480       .7670       .7840
8                  .8000       .8160       .8300       .8440       .8570
8                  .8700       .8820       .8930       .9050       .9160
8                  .9260       .9360       .9460       .9550       .9650
8                  .9740       .9830       .9920      1.0000      1.0000
```

```
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 2                .5000

8              .0000     .0050     .0110     .0160     .0220
8              .0280     .0350     .0410     .0480     .0560
8              .0630     .0710     .0800     .0890     .0980
8              .1090     .1200     .1330     .1470     .1630
8              .1810     .2040     .2350     .2830     .6630
8              .7350     .7720     .7990     .8200     .8380
8              .8540     .8680     .8800     .8910     .9020
8              .9120     .9210     .9290     .9370     .9450
8              .9520     .9590     .9650     .9720     .9780
8              .9840     .9890     .9950    1.0000    1.0000
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 3               2.4000

8              .0000     .0021     .0041     .0062     .0082
8              .0103     .0126     .0148     .0171     .0193
8              .0216     .0241     .0266     .0292     .0317
8              .0342     .0370     .0399     .0427     .0456
8              .0484     .0517     .0549     .0582     .0614
8              .0647     .0686     .0724     .0763     .0801
8              .0840     .0888     .0936     .0984     .1032
8              .1080     .1145     .1210     .1274     .1339
8              .1404     .1509     .1613     .1718     .1822
8              .1927     .2068     .2244     .2481     .2864
8              .6960     .7549     .7840     .8041     .8198
8              .8327     .8406     .8486     .8565     .8645
8              .8724     .8779     .8834     .8889     .8944
8              .8999     .9042     .9085     .9127     .9170
8              .9213     .9248     .9284     .9319     .9355
8              .9390     .9420     .9450     .9481     .9511
8              .9541     .9568     .9594     .9621     .9647
8              .9674     .9698     .9722     .9745     .9769
8              .9793     .9815     .9836     .9858     .9879
8              .9901     .9926     .9951     .9975    1.0000
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 4               2.4000

8              .0000     .0020     .0041     .0061     .0082
8              .0102     .0125     .0147     .0170     .0192
8              .0215     .0240     .0265     .0290     .0314
8              .0339     .0367     .0395     .0424     .0452
8              .0480     .0512     .0544     .0577     .0609
8              .0641     .0679     .0718     .0756     .0795
8              .0833     .0881     .0929     .0976     .1024
8              .1072     .1136     .1200     .1265     .1329
8              .1393     .1497     .1601     .1706     .1810
```

```
8                .1914       .2055       .2230       .2466       .2848
8                .6776       .7564       .7854       .8210       .8210
8                .8339       .8418       .8497       .8576       .8655
8                .8734       .8789       .8843       .8898       .8952
8                .9007       .9049       .9092       .9134       .9177
8                .9219       .9254       .9289       .9325       .9360
8                .9395       .9425       .9455       .9485       .9515
8                .9545       .9571       .9598       .9624       .9651
8                .9677       .9701       .9724       .9748       .9771
8                .9795       .9816       .9838       .9859       .9891
8                .9902       .9927       .9951       .9975      1.0000
9 ENDTBL

                      TIME INCREMENT
5 RAINFL 5                  .2500

8                .0000       .0072       .0152       .0251       .0358
8                .0538       .0717       .0950       .1219       .4910
8                .6398       .7043       .7661       .8109       .8486
8                .8799       .9041       .9274       .9453       .9606
8                .9713       .9821       .9892       .9955      1.0000
9 ENDTBL

                      TIME INCREMENT
5 RAINFL 6                  .5000

8                .0000       .0078       .0150       .0214       .0286
8                .0371       .0457       .0550       .0643       .0750
8                .0864       .0971       .1071       .1250       .1514
8                .1621       .2250       .3214       .4143       .4964
8                .5714       .6421       .6893       .7214       .7500
8                .7750       .7957       .8143       .8314       .8486
8                .8621       .8757       .8879       .9000       .9093
8                .9193       .9286       .9364       .9443       .9514
8                .9593       .9657       .9714       .9786       .9829
8                .9879       .9921       .9964      1.0000      1.0000
9 ENDTBL
```

```
6 RUNOFF 1  15        6      1.7100      80.0000      .30001 0 0 1 0 1
6 REACH  3 114    6   5   2700.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF 1  14        6      1.1600      79.0000      .25001 0 0 1 0 1
6 ADDHYD 4  14    5 6 7                                    1 0 0 1 0 1
6 SAVMOV 5  14    7   5
6 RUNOFF 1  16        6      2.2400      82.0000      .53001 0 0 1 0 1
6 ADDHYD 4 114    5 6 7                                    1 0 0 1 0 1
6 REACH  3 113    7   5   4300.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF 1  13        6      1.3500      83.0000      .21001 0 0 1 0 1
6 ADDHYD 4  13    5 6 7                                    1 0 0 1 0 1
6 REACH  3 112    7   5   4600.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF 1  12        6      1.4300      86.0000      .45001 0 0 1 0 1
6 ADDHYD 4  12    5 6 7                                    1 0 0 1 0 1
6 REACH  3 111    7   5   1800.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF 1  11        6       .6300      82.0000      .31001 0 0 1 0 1
6 ADDHYD 4 111    5 6 7                                    1 0 0 1 0 1
6 SAVMOV 5 111    7   5
6 RUNOFF 1  17        6       .2100      79.0000      .23001 0 0 1 0 1
6 ADDHYD 4 117    5 6 7                                    1 1 0 1 0 1
6 SAVMOV 5 117    7   6
6 RESVOR 2      7 6   7   1967.0000                         1 1 0 1 0 1
6 REACH  3 102    7   5  38600.0000        .8000      .00001 0 0 1 0 1
6 RUNOFF 1   2        6      5.8700      75.0000     2.02001 0 0 1 0 1
6 ADDHYD 4 102    5 6 1                                    1 1 0 1 0 1
6 RUNOFF 1   5        6      5.5200      81.0000     1.18001 0 0 1 0 1
6 REACH  3 104    6   5  12500.0000        .7800      .00000 0 0 0 0 0
6 RUNOFF 1   4        6     13.1100      81.0000     2.17001 0 0 1 0 1
6 ADDHYD 4 104    5 6 7                                    1 0 0 1 0 1
6 SAVMOV 5 104    7   5
6 RUNOFF 1   6        6      7.1700      79.0000     1.80001 0 0 1 0 1
6 ADDHYD 4 106    5 6 7                                    1 1 0 1 0 1
6 REACH  3   3    7   5   4000.0000        .7500      .00001 0 0 1 0 1
6 RUNOFF 1   3        6      5.9200      78.0000     1.41001 0 0 1 0 1
6 ADDHYD 4   3    5 6 7                                    1 0 0 1 0 1
6 REACH  3 102    7   5   5500.0000        .7500      .00001 1 0 1 0 1
6 SAVMOV 5 102    1   6
6 ADDHYD 4      1 5 6 4                                    1 1 0 1 0 1
6 RESVOR 2      1 4   7   1568.2000                        1 1 0 1 0 1
  ENDATA

END OF LISTING
```

PASS= 7

EXECUTIVE CONTROL CARD 140 OPERATION INCREM, MAIN T[illegible]NCREMENT= .10
EXECUTIVE CONTROL CARD 141 OPERATION COMPUT, FROM XSE[illegible]STRUCT 2/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 5.85 RAIN DURATION= 1.00 RAIN TABLE NO.= 6 SOIL CONDITION= 2
ALTERNATE NO.= 1 STORM NO.= 6

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.09	1974.773	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.1488 CFS-HRS= 11928.49 ACRE-FT= 985.77

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.09	1974.773	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 5.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.01	.14	.34	.54	.95	2.13	3.31	4.50
7.00	DISCHG	7.49	11.12	14.74	19.53	27.33	35.13	42.93	55.56	69.27	82.97
8.00	DISCHG	101.38	128.33	155.29	182.24	230.21	280.74	331.27	394.54	474.81	555.08
9.00	DISCHG	635.35	732.60	830.45	928.31	1025.77	1122.86	1219.94	1316.40	1397.80	1479.20
10.00	DISCHG	1560.60	1629.43	1689.04	1748.65	1805.74	1843.23	1880.72	1918.21	1939.93	1953.20
11.00	DISCHG	1966.47	1974.56	1960.34	1946.12	1931.90	1900.55	1862.72	1824.89	1783.44	1731.81
12.00	DISCHG	1680.19	1628.56	1575.85	1522.87	1469.89	1419.00	1372.24	1325.48	1278.72	1238.08
13.00	DISCHG	1198.32	1158.56	1121.23	1087.39	1053.55	1019.71	990.48	961.50	932.52	905.82
14.00	DISCHG	881.53	857.24	833.05	813.49	793.93	774.37	756.97	741.27	725.56	710.05
15.00	DISCHG	696.30	682.54	668.78	655.47	642.42	629.37	616.55	604.87	593.19	581.50
16.00	DISCHG	570.86	560.64	550.43	540.53	531.61	522.70	513.78	505.61	497.65	489.68
17.00	DISCHG	481.71	473.71	465.72	457.72	449.85	441.99	434.14	426.77	420.15	413.54
18.00	DISCHG	406.92	401.06	395.27	389.47	383.81	378.32	372.83	367.34	361.88	356.43
19.00	DISCHG	350.97	345.64	340.40	335.16	329.98	325.42	320.86	316.31	312.32	308.69
20.00	DISCHG	305.05	301.56	298.87	296.18	293.49	290.74	287.98	285.21	282.31	278.95
21.00	DISCHG	275.59	272.23	269.05	265.93	262.81	259.81	257.12	254.43	251.74	248.99
22.00	DISCHG	246.23	243.47	240.36	236.67	232.98	229.29	225.32	221.33	217.33	213.41
23.00	DISCHG	209.57	205.74	201.90	198.33	194.76	191.18	187.99	185.13	182.27	179.38
24.00	DISCHG	176.00	172.63	169.25	164.70	159.37	154.03	148.37	140.67	132.96	125.25
25.00	DISCHG	116.81	108.02	99.23	90.60	82.55	74.50	66.45	59.74	53.47	47.21
26.00	DISCHG	41.53	37.31	33.09	28.87	25.87	23.14	20.41	18.00	16.17	14.35
27.00	DISCHG	12.52	11.23	10.01	8.79	7.75	6.93	6.12	5.30	4.76	4.22
28.00	DISCHG	3.68	3.24	2.89	2.54	2.20	1.96	1.73	1.49	1.30	1.15
29.00	DISCHG	.99	.84	.74	.63	.53	.45	.38	.31	.25	.20

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.1488 CFS-HRS= 11928.49 ACRE-FT= 985.77

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SUBROUTINE RUNOFF    CROSS SECTION   5
        AREA=    5.52     INPUT RUNOFF CURVE=  81.0        TIME OF CONCENTRATION=  1.18

        PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
           10.45                       2416.548                     (RUNOFF)
           21.63                        241.884                     (RUNOFF)

        TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.7406       CFS-HRS=    13325.49       ACRE-FT=    1101.22


SUBROUTINE REACH     CROSS SECTION 104
        LENGTH=  12500.00     INPUT COEFFICIENT=   .7800     INPUT ROUTINGS=   .00

        AVERAGE WATER VELOCITY=   6.027       AVERAGE ROUTING COEFF=  .7800       NUMBER OF ROUTINGS=  4.49


SUBROUTINE RUNOFF    CROSS SECTION   4
        AREA=  13.11     INPUT RUNOFF CURVE=  81.0     TIME OF CONCENTRATION=  2.17

        PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
           11.09                       5184.183                     (RUNOFF)

        TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.7403       CFS-HRS=    31645.85       ACRE-FT=    2615.21


SUBROUTINE ADDHYD    CROSS SECTION 104
        INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

        PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
           11.06                       7592.548                     (NULL)

        TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.7403       CFS-HRS=    44970.96       ACRE-FT=    3716.40


SUBROUTINE SAVMOV    CROSS SECTION 104
        INPUT HYDROGRAPH= 7     OUTPUT HYDROGRAPH= 5


SUBROUTINE RUNOFF    CROSS SECTION   6
        AREA=    7.17     INPUT RUNOFF CURVE=  79.0     TIME OF CONCENTRATION=  1.80

        PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
           10.82                       2812.450                     (RUNOFF)

        TOTAL WATER, IN INCHES ON DRAINAGE AREA=   3.5396       CFS-HRS=    16378.71       ACRE-FT=    1353.54


SUBROUTINE ADDHYD    CROSS SECTION 106
        INPUT HYDROGRAPHS= 5,6     OUTPUT HYDROGRAPH= 7

        PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
           10.96                      10377.349                     (NULL)

  TIME                          HYDROGRAPH, TZERO=     .00        DELTA T=  .10        DRAINAGE AREA=  25.80
   .00   DISCHG      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
  1.00   DISCHG      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
  2.00   DISCHG      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00      .00
```

3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
.00	DISCHG	.00	.00	.00	.	.00	.01	.02	.03	.05	.24
	DISCHG	.52	.81	1.11	2.	3.57	4.98	6.99	10.60	14.51	05
6.	DISCHG	25.65	33.88	42.88	53.28	67.27	83.17	101.76	121.15	149.02	66
7.00	DISCHG	215.46	254.10	306.82	361.32	417.81	490.98	572.11	655.14	747.50	865.88
8.00	DISCHG	989.16	1131.42	1289.41	1493.87	1728.06	1979.77	2271.48	2639.81	3040.82	3460.05
9.00	DISCHG	3944.77	4470.99	5010.56	5554.56	6096.21	6634.98	7155.50	7633.17	8066.17	8473.70
10.00	DISCHG	8838.54	9154.46	9425.64	9661.83	9887.43	10046.30	10162.88	10273.29	10371.06	10376.25
11.00	DISCHG	10376.96	10372.08	10297.65	10169.46	10029.70	9855.05	9627.28	9371.20	9097.70	8814.34
12.00	DISCHG	8502.54	8190.69	7881.59	7577.00	7286.81	7008.60	6736.86	6486.19	6255.85	6031.22
13.00	DISCHG	5814.98	5622.86	5437.53	5256.72	5083.51	4925.95	4770.86	4621.42	4478.18	4345.89
14.00	DISCHG	4220.65	4097.07	3984.13	3883.60	3784.80	3687.60	3606.75	3528.52	3451.92	3380.07
15.00	DISCHG	3315.36	3251.50	3187.88	3125.41	3063.77	3002.32	2939.58	2879.52	2821.40	2764.33
16.00	DISCHG	2708.17	2658.13	2609.95	2562.66	2518.05	2477.25	2436.74	2396.54	2358.20	2321.17
17.00	DISCHG	2284.24	2246.85	2209.65	2172.04	2133.88	2095.16	2057.24	2020.46	1983.80	1949.03
18.00	DISCHG	1918.07	1888.24	1859.54	1833.14	1807.85	1782.88	1757.74	1733.15	1708.02	1682.18
19.00	DISCHG	1655.85	1629.61	1603.59	1577.89	1553.26	1530.29	1508.24	1486.68	1467.94	1450.46
20.00	DISCHG	1433.12	1416.69	1403.05	1389.87	1377.21	1365.06	1353.54	1341.89	1329.21	1315.44
21.00	DISCHG	1300.60	1284.75	1268.06	1251.31	1234.93	1218.40	1202.27	1188.24	1175.23	1163.40
22.00	DISCHG	1151.58	1140.09	1128.73	1115.62	1099.79	1082.25	1063.21	1043.07	1022.35	1001.73
23.00	DISCHG	981.59	962.25	944.30	927.32	910.76	895.47	881.06	866.68	852.32	838.12
24.00	DISCHG	824.11	809.65	793.21	773.88	753.60	730.35	703.74	672.76	637.57	600.58
25.00	DISCHG	559.37	515.67	471.01	426.02	384.17	343.13	303.23	268.37	237.81	208.68
26.00	DISCHG	182.93	161.48	142.68	125.65	109.61	97.32	86.47	76.29	66.71	59.62
27.00	DISCHG	53.01	46.53	41.03	36.71	32.45	28.38	25.28	22.51	19.82	17.31
28.00	DISCHG	15.48	13.70	12.04	10.52	9.36	8.30	7.24	6.36	5.67	4.97
29.00	DISCHG	4.28	3.79	3.32	2.86	2.43	2.13	1.83	1.55	1.31	1.12

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6845 CFS-HRS= 61349.66 ACRE-FT= 5069.94

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.18	10372.710	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6845 CFS-HRS= 61349.37 ACRE-FT= 5069.91

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.63	2341.996	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.4403 CFS-HRS= 13143.93 ACRE-FT= 1086.21

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.04	12611.558	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6389 CFS-HRS= 74493.30 ACRE-FT= 6156.13

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.33	12584.868	(NULL)

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10			DRAINAGE AREA= 31.72		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.01	.02	.05	.14	.31	.54	.90	1.53	2.50	3.79
6.00	DISCHG	5.58	8.24	11.77	16.38	22.50	30.30	40.12	51.97	66.87	85.11
7.00	DISCHG	106.64	132.36	163.14	200.47	243.45	292.84	350.72	415.94	489.59	573.13
8.00	DISCHG	667.68	772.16	888.74	1025.44	1180.92	1363.61	1576.69	1828.49	2127.08	2465.48
9.00	DISCHG	2852.40	3293.77	3782.79	4312.23	4883.27	5488.38	6119.38	6757.54	7392.17	8017.53
10.00	DISCHG	8620.39	9192.23	9721.20	10207.45	10649.62	11043.23	11389.36	11689.59	11950.34	12164.14
11.00	DISCHG	12329.86	12457.88	12543.96	12582.40	12574.28	12526.93	12434.88	12292.62	12108.52	11885.83
12.00	DISCHG	11623.32	11326.62	11004.85	10663.82	10309.59	9946.55	9582.82	9224.25	8875.17	8539.20
13.00	DISCHG	8216.26	7909.79	7620.81	7346.82	7086.86	6841.78	6611.20	6391.76	6182.86	5985.10
14.00	DISCHG	5796.88	5617.48	5446.18	5284.42	5131.68	4986.81	4851.17	4725.01	4607.05	4496.02
15.00	DISCHG	4392.63	4295.95	4204.15	4116.14	4032.19	3951.72	3873.52	3797.03	3722.22	3648.41
16.00	DISCHG	3575.74	3504.56	3435.26	3367.95	3302.78	3240.82	3182.02	3125.77	3072.04	3020.81
17.00	DISCHG	2971.22	2922.76	2874.98	2827.82	2781.16	2734.71	2688.30	2642.41	2596.79	2551.56
18.00	DISCHG	2507.20	2463.82	2421.73	2381.28	2342.82	2306.25	2271.24	2237.48	2204.86	2172.95
19.00	DISCHG	2141.40	2110.22	2079.28	2048.24	2017.24	1986.31	1955.65	1925.47	1896.11	1868.10
20.00	DISCHG	1841.38	1816.26	1793.04	1771.61	1751.62	1732.93	1715.40	1698.92	1682.94	1667.06
21.00	DISCHG	1651.30	1635.19	1618.42	1600.93	1582.63	1563.69	1544.77	1525.95	1507.74	1490.15
22.00	DISCHG	1472.86	1455.94	1439.71	1423.21	1406.44	1389.52	1372.28	1354.27	1335.09	1314.39
23.00	DISCHG	1292.46	1269.53	1245.92	1222.18	1198.64	1175.74	1153.77	1132.82	1112.82	1093.79
24.00	DISCHG	1075.67	1058.18	1040.67	1022.92	1004.67	984.90	963.28	938.32	910.03	878.53
25.00	DISCHG	843.33	804.20	761.68	716.09	667.96	617.85	566.37	515.28	465.47	417.71
26.00	DISCHG	372.36	330.25	292.04	257.30	226.17	198.72	174.71	153.56	134.77	118.47
27.00	DISCHG	104.41	92.03	81.04	71.49	63.18	55.76	49.20	43.48	38.42	33.88
28.00	DISCHG	29.90	26.43	23.33	20.54	18.11	15.98	14.08	12.38	10.90	9.61
29.00	DISCHG	8.46	7.44	6.56	5.78	5.06	4.44	3.88	3.38	2.93	2.48

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6389 CFS-HRS= 74492.81 ACRE-FT= 6156.09

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.30	14528.532	1508.86

TIME	HYDROGRAPH, TZERO= .00	DELTA T= .10	DRAINAGE AREA= 37.59

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.01	.02	.05	.14	.31	.54	.90	1.53	2.50	3.79
6.00	DISCHG	5.58	8.24	11.77	16.52	22.85	30.84	41.07	54.10	70.18	89.61
7.00	DISCHG	114.13	143.48	177.88	220.01	270.78	327.97	393.65	471.50	558.86	656.10
8.00	DISCHG	769.05	900.49	1044.03	1207.69	1411.13	1644.35	1907.96	2223.03	2601.89	3020.56
9.00	DISCHG	3487.75	4026.37	4613.25	5240.54	5909.04	6611.23	7339.32	8073.94	8789.97	9496.73
10.00	DISCHG	10190.98	10821.65	11410.24	11956.10	12455.36	12886.46	13270.08	13607.80	13890.27	14117.34
11.00	DISCHG	14296.33	14432.44	14504.30	14528.52	14506.18	14427.48	14297.60	14117.51	13891.95	13617.64
12.00	DISCHG	13303.51	12955.18	12580.70	12186.69	11779.47	11365.55	10955.06	10549.73	10153.89	9777.28
13.00	DISCHG	9414.58	9068.34	8742.04	8434.21	8140.41	7861.49	7601.68	7353.26	7115.38	6890.92
14.00	DISCHG	6678.40	6474.72	6279.23	6097.91	5925.61	5761.18	5608.14	5466.28	5332.62	5206.07
15.00	DISCHG	5088.92	4978.48	4872.93	4771.61	4674.61	4581.08	4490.07	4401.90	4315.40	4229.91
16.00	DISCHG	4146.60	4065.21	3985.69	3908.48	3834.39	3763.52	3695.80	3631.38	3569.69	3510.49
17.00	DISCHG	3452.93	3396.48	3340.70	3285.54	3231.01	3176.70	3122.44	3069.18	3016.94	2965.09
18.00	DISCHG	2914.12	2864.89	2817.00	2770.75	2726.63	2684.57	2644.07	2604.81	2566.74	2529.38
19.00	DISCHG	2492.38	2455.86	2419.68	2383.40	2347.22	2311.73	2276.51	2241.78	2208.43	2176.78
20.00	DISCHG	2146.43	2117.82	2091.92	2067.79	2045.11	2023.67	2003.38	1984.14	1965.25	1946.01
21.00	DISCHG	1926.89	1907.42	1887.47	1866.86	1845.44	1823.50	1801.90	1780.39	1759.49	1739.14
22.00	DISCHG	1719.09	1699.41	1680.07	1659.88	1639.42	1618.81	1597.61	1575.60	1552.42	1527.80
23.00	DISCHG	1502.04	1475.27	1447.83	1420.51	1393.40	1366.92	1341.76	1317.94	1295.09	1273.16
24.00	DISCHG	1251.67	1230.81	1209.93	1187.62	1164.04	1138.94	1111.66	1078.98	1042.99	1003.78
25.00	DISCHG	960.14	912.22	860.92	806.69	750.51	692.35	632.82	575.01	518.94	464.92
26.00	DISCHG	413.89	367.56	325.13	286.17	252.04	221.86	195.12	171.56	150.94	132.82
27.00	DISCHG	116.93	103.26	91.05	80.28	70.93	62.70	55.31	48.78	43.18	38.11
28.00	DISCHG	33.58	29.67	26.22	23.09	20.31	17.94	15.81	13.87	12.20	10.75
29.00	DISCHG	9.45	8.28	7.30	6.41	5.60	4.89	4.27	3.70	3.18	2.68

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5624 CFS-HRS= 86421.30 ACRE-FT= 7141.86

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
17.50	3179.266	1585.44

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.05	.07	.11	.16	.23	.33	.46	.64	.87	1.16
7.00	DISCHG	1.53	2.00	2.59	3.32	4.21	5.31	6.62	8.20	10.08	12.29
8.00	DISCHG	14.88	17.91	21.45	25.54	30.29	35.83	42.28	49.77	58.51	68.70
9.00	DISCHG	80.50	92.21	93.73	95.48	97.46	99.69	102.18	104.92	107.44	109.86
10.00	DISCHG	112.48	115.27	118.22	120.58	122.77	125.05	127.41	129.83	132.00	134.20
11.00	DISCHG	136.42	138.67	140.94	142.48	144.01	145.53	147.04	148.54	150.01	151.27
12.00	DISCHG	152.51	153.72	154.89	156.03	157.13	158.19	159.21	160.22	161.18	162.10
13.00	DISCHG	162.99	163.85	164.68	216.83	300.27	379.88	455.89	528.48	597.81	664.04
14.00	DISCHG	857.46	1046.31	1222.34	1386.33	1539.07	1681.21	1813.41	1936.38	2050.73	2157.02
15.00	DISCHG	2255.77	2347.50	2432.64	2511.55	2584.58	2652.05	2714.24	2771.43	2823.84	2871.68

.00	DISCHG	2915.16	2954.48	2989.84	3021.45	3049.[illegible]	3074.27	3095.91	3114.66	3130.70	3144.22
.00	DISCHG	3155.36	3164.26	3171.01	3175.70	3178.[illegible]	3179.26	3178.28	3175.56	3171.18	3165.24
.00	DISCHG	3157.78	3148.92	3138.75	3127.37	3114.86	3101.35	3086.91	3071.64	3055.60	3038.84
.00	DISCHG	3021.40	3003.33	2984.66	2965.40	2945.58	2925.24	2904.40	2883.09	2861.36	2839.28
.00	DISCHG	2816.90	2794.29	2771.52	2748.68	2725.82	2702.99	2680.22	2657.56	2635.01	2612.57
.00	DISCHG	2590.25	2568.02	2545.87	2523.79	2501.75	2479.71	2457.69	2435.67	2413.69	2391.75
.00	DISCHG	2369.87	2348.06	2326.32	2304.64	2283.01	2261.42	2239.85	2218.28	2196.67	2174.99
.00	DISCHG	2153.20	2131.25	2109.14	2086.85	2064.40	2041.80	2019.10	1996.34	1973.56	1950.80
.00	DISCHG	1928.06	1905.38	1882.76	1860.18	1837.58	1814.92	1792.15	1769.14	1745.75	1721.90
.00	DISCHG	1697.47	1672.33	1646.38	1619.55	1591.78	1563.04	1533.30	1502.61	1471.05	1438.72
.00	DISCHG	1405.72	1372.21	1338.33	1304.23	1270.05	1235.93	1202.01	1168.37	1135.11	1102.31
.00	DISCHG	1070.04	1038.34	1007.26	976.82	947.06	918.00	889.63	861.97	835.03	808.80
.00	DISCHG	783.27	758.45	734.33	710.89	688.13	667.39	660.66	653.98	647.36	640.78
.00	DISCHG	634.26	627.80	621.39	615.03	608.74	602.50	596.32	590.19	584.12	578.12

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3909 CFS-HRS= 33742.76 ACRE-FT= 2788.50

IDCMP

NOTE: THERE ARE CONTINUATION OF RUN'S 1-6

7. ALT # 1, Storm #6 ; 24-Hour ECH For Pondline Uncontrolled DA = 37.59 Mi²
8. Alt # 1, Storm #7 ; 24-Hour ECH " " " "
9. Alt # 2, Storm #8 ; 24-Hour ECH For [illegible] DA = 46.33 Mi² W/O Wash Dam
10. Alt # 2, Storm # 9 ; 24-Hour [illegible] " " " "
11. Alt # 1, Storm # 10 ; 10-Year, 24 Hour Type II For Pondline DA = 37.59 Mi²
12. Alt # 1, Storm # 11 ; 25-Yr, " " " "
13. Alt # 1 Storm # 12 ; 100-Yr, " " " "
14. Alt # 2, Storm # 10 ; 10-year, 24 Hour, Type II For TOT Pondline DA = 46.33 Mi² W/O Wash
15. Alt # 2, Storm # 11 ; 25-Year, " " " "
16. Alt # 2, Storm # 12 ; 100-Year, " " " "

CUTIVE CONTROL CARD 143 OPERATION COMPUT, FROM XSECTN/STRUCT 2/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 11.17 RAIN DURATION= 1.00 RAIN TABLE NO.= 6 SOIL CONDITION= 2
ALTERNATE NO.= 1 STORM NO.= 7

ROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.78	5040.866	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.9582 CFS-HRS= 30148.20 ACRE-FT= 2491.45

ROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.78	5040.866	(NULL)

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10			DRAINAGE AREA= 5.87		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.01	.20
4.00	DISCHG	.40	.60	1.14	2.11	3.08	4.04	6.62	9.23	11.83	15.57
5.00	DISCHG	20.36	25.14	30.04	36.82	43.61	50.39	57.89	65.86	73.84	81.99
6.00	DISCHG	91.24	100.50	109.76	121.16	133.62	146.09	160.07	179.96	199.84	219.72
7.00	DISCHG	247.65	279.36	309.07	343.44	387.20	430.96	474.73	530.40	588.73	647.07
8.00	DISCHG	717.84	811.28	904.73	998.17	1147.06	1302.71	1458.35	1644.91	1872.67	2100.44
9.00	DISCHG	2328.20	2580.71	2834.09	3087.48	3327.14	3553.22	3779.30	4002.94	4167.99	4333.04
0.00	DISCHG	4498.10	4624.13	4721.56	4819.00	4910.04	4951.46	4992.89	5034.31	5040.61	5028.11
1.00	DISCHG	5015.60	4992.15	4921.54	4850.94	4780.34	4675.26	4557.14	4439.03	4314.44	4171.68
2.00	DISCHG	4028.92	3886.17	3744.01	3606.50	3466.98	3334.00	3213.86	3093.72	2973.57	2870.78
3.00	DISCHG	2770.48	2670.18	2574.60	2492.65	2408.69	2324.74	2253.24	2182.42	2111.61	2046.66
4.00	DISCHG	1987.95	1929.24	1870.79	1823.76	1776.74	1729.71	1687.96	1650.35	1612.75	1575.63
5.00	DISCHG	1543.09	1510.55	1476.02	1446.84	1416.45	1386.05	1356.25	1329.31	1302.37	1275.43
6.00	DISCHG	1250.99	1227.57	1204.15	1181.48	1161.15	1140.81	1120.47	1101.92	1083.86	1065.80
7.00	DISCHG	1047.77	1029.80	1011.84	993.88	976.28	958.75	941.22	924.78	910.01	895.25
8.00	DISCHG	880.48	867.44	854.53	841.61	829.03	816.95	804.66	792.47	780.42	768.38
9.00	DISCHG	756.33	744.57	733.04	721.51	710.10	700.07	690.04	680.00	671.22	663.21
0.00	DISCHG	655.19	647.49	641.52	635.55	629.58	623.53	617.43	611.33	604.55	597.60
1.00	DISCHG	590.25	582.90	575.95	569.13	562.31	555.77	549.89	544.00	538.12	532.13
2.00	DISCHG	526.11	520.10	513.34	505.37	497.39	489.42	480.96	472.25	463.64	455.19
3.00	DISCHG	446.93	438.67	430.42	422.73	415.04	407.36	400.48	394.33	388.18	381.96
4.00	DISCHG	374.72	367.49	360.25	350.52	339.13	327.74	315.66	299.25	282.83	266.42
5.00	DISCHG	248.45	229.75	211.04	190.67	175.55	158.43	141.31	127.03	113.71	100.39
6.00	DISCHG	88.31	79.34	70.37	61.39	55.02	48.21	43.40	38.28	34.39	30.51
7.00	DISCHG	26.62	23.89	21.20	18.69	16.47	14.74	13.01	11.27	10.12	8.97
8.00	DISCHG	7.83	6.89	6.19	5.41	4.68	4.18	3.69	3.17	2.77	2.44
9.00	DISCHG	2.10	1.78	1.57	1.35	1.13	.96	.81	.67	.53	.43

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.9582 CFS-HRS= 30148.20 ACRE-FT= 2491.45

ROUTINE RUNOFF CROSS SECTION 5

AREA= 5.50 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.10

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.91	5666.970	(RUNOFF)
21.63	493.509	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.7614 CFS-HRS= 31211.81 ACRE-FT= 2579.34

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.80	12175.501	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.7606 CFS-HRS= 74121.44 ACRE-FT= 6125.40

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.78	17770.224	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.7607 CFS-HRS= 105332.07 ACRE-FT= 8704.64

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.54	6734.679	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4961 CFS-HRS= 39313.81 ACRE-FT= 3248.89

SUBROUTINE ADDHYD CROSS SECTION 105
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.77	24480.883	(NULL)

TIME			HYDROGRAPH, TZERO= .00			DELTA T= .10			DRAINAGE AREA= 25.40	
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.09	.18	.28
3.00	DISCHG	.59	1.60	2.77	3.97	6.60	11.35	16.37	21.83	33.11	46.11

[illegible]	DISCHG	60.02	77.62	101.38	126.[illegible]	153.95	185.12	220.43	259.41	297.80	[illegible]0.73
[illegible]	DISCHG	387.16	434.92	483.22	534.[illegible]	587.03	639.68	692.15	744.03	795.62	[illegible]6.86
[illegible]00	DISCHG	898.66	950.25	1003.29	1057.[illegible]	1120.06	1187.31	1263.95	1343.39	1451.81	[illegible]78.21
7.00	DISCHG	1709.83	1857.89	2050.54	2249.76	2455.69	2705.11	2975.35	3250.05	3544.82	3901.31
8.00	DISCHG	4268.09	4680.80	5130.23	5689.02	6320.09	6994.17	7760.18	8701.73	9721.07	10785.43
9.00	DISCHG	11971.20	13233.62	14522.16	15800.28	17003.24	18187.91	19310.18	20295.00	21139.77	21913.88
10.00	DISCHG	22572.79	23103.28	23519.39	23853.76	24164.96	24323.40	24391.62	24448.40	24460.68	24324.30
11.00	DISCHG	24160.74	23987.67	23677.07	23260.44	22821.39	22315.46	21707.90	21046.18	20354.72	19646.30
12.00	DISCHG	18901.53	18143.61	17405.79	16682.07	16002.42	15352.22	14717.04	14134.61	13603.00	13084.41
13.00	DISCHG	12595.68	12146.13	11722.95	11310.58	10916.81	10561.13	10211.43	9875.33	9553.91	9258.36
14.00	DISCHG	8978.21	8703.38	8452.01	8228.93	8009.61	7793.76	7614.87	7441.75	7272.11	7113.31
15.00	DISCHG	6978.70	6829.94	6690.08	6553.31	6418.98	6284.72	6148.19	6019.37	5894.04	5771.95
16.00	DISCHG	5656.81	5542.49	5430.97	5317.32	5241.53	5154.10	5067.29	4981.21	4899.30	4820.28
17.00	DISCHG	4741.50	4661.86	4582.88	4503.14	4422.38	4340.50	4260.50	4182.96	4105.69	4032.41
18.00	DISCHG	3967.18	3904.27	3843.70	3788.04	3734.71	3682.05	3629.09	3577.39	3524.58	3470.37
19.00	DISCHG	3415.18	3360.26	3305.84	3252.08	3200.59	3152.55	3106.46	3061.34	3022.12	2985.52
20.00	DISCHG	2949.21	2914.80	2886.18	2858.51	2831.91	2806.38	2782.18	2757.70	2731.10	2702.32
21.00	DISCHG	2671.36	2638.33	2603.61	2568.80	2534.78	2500.46	2466.97	2437.83	2410.79	2386.13
22.00	DISCHG	2361.54	2337.63	2313.96	2286.72	2253.97	2217.72	2178.42	2136.89	2094.19	2051.71
23.00	DISCHG	2010.21	1970.37	1933.41	1898.40	1864.30	1832.78	1803.10	1773.49	1743.91	1714.69
24.00	DISCHG	1685.86	1656.10	1622.28	1582.40	1540.97	1493.25	1438.67	1375.23	1303.13	1227.39
25.00	DISCHG	1143.87	1053.70	962.37	870.37	784.85	700.98	619.43	548.21	485.77	426.23
26.00	DISCHG	373.65	329.84	291.41	256.64	223.99	198.77	176.59	155.80	136.23	121.74
27.00	DISCHG	108.24	95.01	83.79	74.04	66.25	57.93	51.61	45.95	40.47	35.33
28.00	DISCHG	31.59	27.95	24.57	21.48	19.10	16.93	14.76	12.97	11.56	10.15
29.00	DISCHG	8.74	7.72	6.77	5.82	4.96	4.34	3.73	3.16	2.67	2.29

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6872 CFS-HRS= 144645.87 ACRE-FT= 11953.53

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.95	24437.217	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6871 CFS-HRS= 144644.94 ACRE-FT= 11953.46

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.32	5672.099	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.3622 CFS-HRS= 31948.66 ACRE-FT= 2640.24

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.83	29873.206	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4265 CFS-HRS= 176593.62 ACRE-FT= 14593.70

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.11	29836.800	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.01	.04	.11	.21	.46	1.01	1.89	3.26	5.48	9.17
4.00	DISCHG	14.27	21.11	31.02	43.94	60.18	80.07	104.31	132.81	165.02	201.46
5.00	DISCHG	242.01	286.38	334.11	385.04	439.25	496.08	554.84	615.43	677.44	740.13
6.00	DISCHG	803.03	865.54	927.55	989.75	1052.77	1116.52	1164.42	1255.62	1334.92	1424.02
7.00	DISCHG	1523.40	1636.84	1767.67	1920.92	2093.71	2287.24	2506.80	2748.98	3014.32	3305.84
8.00	DISCHG	3625.42	3969.32	4342.25	4764.49	5232.27	5767.81	6378.40	7082.96	7901.17	8815.61
9.00	DISCHG	9838.32	10982.48	12228.61	13554.84	14958.93	16413.29	17903.39	19378.81	20805.32	22173.43
10.00	DISCHG	23456.36	24634.84	25682.56	26605.31	27405.93	28078.27	28628.27	29066.47	29411.61	29650.67
11.00	DISCHG	29784.02	29836.34	29801.94	29670.55	29445.71	29143.16	28752.95	28264.77	27695.09	27052.54
12.00	DISCHG	26335.00	25554.61	24730.52	23874.21	23000.58	22118.19	21243.07	20387.07	19559.97	18768.92
13.00	DISCHG	18011.83	17296.40	16624.77	15990.25	15390.09	14826.27	14297.73	13796.25	13320.30	12871.35
14.00	DISCHG	12445.45	12040.69	11655.21	11292.17	10950.15	10626.32	10323.53	10042.33	9779.71	9532.72
15.00	DISCHG	9303.01	9086.48	8884.99	8690.20	8504.76	8327.28	8155.15	7987.21	7823.42	7662.28
16.00	DISCHG	7504.03	7349.41	7199.21	7053.59	6912.74	6779.03	6652.22	6531.00	6415.29	6305.04
17.00	DISCHG	6198.47	6094.41	5991.96	5890.99	5791.21	5692.01	5593.05	5495.36	5398.39	5302.38
18.00	DISCHG	5208.36	5116.51	5027.45	4941.90	4860.59	4783.26	4709.23	4637.83	4568.86	4501.42
19.00	DISCHG	4434.77	4368.95	4303.70	4238.31	4173.09	4108.09	4043.69	3980.37	3918.78	3860.02
20.00	DISCHG	3803.98	3751.28	3702.57	3657.57	3615.58	3576.29	3539.45	3504.76	3471.11	3437.67
21.00	DISCHG	3404.49	3370.57	3335.31	3298.60	3260.25	3220.62	3181.09	3141.80	3103.84	3067.17
22.00	DISCHG	3031.16	2995.91	2962.09	2927.69	2892.70	2857.39	2821.43	2783.89	2743.97	2701.00
23.00	DISCHG	2655.53	2608.05	2559.22	2510.15	2461.52	2414.22	2368.85	2325.57	2284.26	2244.95
24.00	DISCHG	2207.52	2171.40	2135.25	2098.60	2060.91	2020.09	1975.46	1923.94	1865.59	1800.63
25.00	DISCHG	1728.09	1647.53	1560.07	1466.33	1367.47	1264.61	1159.02	1054.28	952.23	854.42
26.00	DISCHG	761.58	675.39	597.19	526.11	462.42	406.28	357.17	313.91	275.48	242.16
27.00	DISCHG	213.39	188.08	165.62	146.09	129.10	113.94	100.51	88.82	78.48	69.21
28.00	DISCHG	61.06	53.97	47.63	41.94	36.97	32.62	28.73	25.26	22.24	19.61
29.00	DISCHG	17.26	15.18	13.39	11.78	10.33	9.05	7.92	6.89	5.97	5.04

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6264 CFS-HRS= 176592.57 ACRE-FT= 14593.61

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.07	34833.895	1593.37

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

[redacted]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
[redacted]	DISCHG	.00	.00	.00	[redacted]	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.01	.04	.11	.	.46	1.01	1.89	3.27	5.50	9.37
4.00	DISCHG	14.67	21.71	32.16	46.35	63.26	84.11	110.93	142.04	176.86	217.03
5.00	DISCHG	262.37	311.52	364.14	421.86	482.85	546.48	612.73	681.29	751.28	822.11
6.00	DISCHG	894.27	966.04	1037.31	1110.91	1186.39	1263.01	1344.49	1435.58	1534.76	1643.74
7.00	DISCHG	1771.05	1915.20	2076.75	2264.36	2480.91	2718.21	2981.53	3279.37	3603.05	3952.90
8.00	DISCHG	4343.27	4780.60	5246.98	5762.66	6379.33	7070.51	7836.76	8727.87	9773.84	10916.05
9.00	DISCHG	12186.52	13563.19	15062.70	16642.32	18286.07	19966.50	21682.68	23381.76	24973.32	26506.48
10.00	DISCHG	27954.45	29258.97	30424.13	31424.31	32315.97	33029.73	33621.16	34100.79	34452.22	34678.77
11.00	DISCHG	34799.62	34825.48	34723.49	34521.49	34226.04	33818.42	33310.09	32703.80	32009.52	31224.22
12.00	DISCHG	30363.92	29440.78	28476.53	27480.71	26467.57	25452.19	24456.93	23480.79	22533.55	21639.70
13.00	DISCHG	20795.31	19966.58	19251.39	18482.90	17798.79	17151.01	16550.98	15978.67	15431.90	14918.02
14.00	DISCHG	14433.40	13963.93	13525.56	13115.93	12726.89	12356.03	12011.49	11692.69	11392.46	11106.35
15.00	DISCHG	10844.10	10599.23	10363.00	10137.04	9921.21	9713.33	9511.41	9316.52	9125.79	8937.71
16.00	DISCHG	8755.02	8576.97	8403.35	8235.08	8073.99	7919.63	7772.69	7632.92	7499.15	7370.84
17.00	DISCHG	7246.24	7124.21	7003.89	6884.87	6767.49	6650.76	6534.26	6420.14	6308.40	6197.62
18.00	DISCHG	6088.84	5981.95	5881.98	5783.51	5685.62	5600.11	5513.89	5430.30	5349.29	5269.79
19.00	DISCHG	5191.11	5113.51	5036.74	4959.82	4883.18	4808.15	4733.73	4660.37	4590.00	4523.23
20.00	DISCHG	4458.18	4398.78	4344.09	4293.12	4245.17	4199.82	4156.87	4116.09	4076.06	4035.26
21.00	DISCHG	3994.73	3953.47	3911.26	3867.73	3822.56	3776.38	3730.97	3685.81	3641.96	3599.29
22.00	DISCHG	3557.28	3516.01	3475.44	3433.05	3390.09	3346.81	3302.29	3256.14	3207.61	3156.18
23.00	DISCHG	3102.46	3046.72	2988.64	2932.88	2876.56	2821.58	2769.33	2719.90	2672.44	2626.91
24.00	DISCHG	2582.25	2538.89	2495.50	2449.12	2400.09	2347.83	2291.12	2229.18	2148.43	2067.05
25.00	DISCHG	1976.55	1877.28	1771.11	1659.00	1543.01	1423.04	1300.33	1181.31	1065.94	954.91
26.00	DISCHG	849.89	754.73	667.56	587.51	517.44	455.49	400.57	352.19	309.87	272.67
27.00	DISCHG	240.01	211.97	186.91	164.78	145.56	128.67	113.51	100.09	88.59	78.18
28.00	DISCHG	68.90	60.86	53.78	47.55	41.65	36.79	32.41	28.43	25.01	22.04
29.00	DISCHG	19.36	16.96	14.95	13.13	11.46	10.01	8.73	7.56	6.50	5.48

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5221 CFS-HRS= 206740.78 ACRE-FT= 17085.06

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1588.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.00	20049.058	1590.09

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.02	.04	.06
4.00	DISCHG	.11	.17	.27	.42	.62	.89	1.25	1.71	2.29	3.01
5.00	DISCHG	3.89	4.94	6.17	7.60	9.25	11.12	13.23	15.57	18.17	21.01
6.00	DISCHG	24.11	27.46	31.07	34.93	39.06	43.44	48.11	53.08	58.38	64.05
7.00	DISCHG	70.13	76.69	83.80	91.53	99.78	93.68	94.68	95.78	96.95	98.32
8.00	DISCHG	99.78	101.40	103.17	105.12	106.95	108.73	110.70	112.90	115.35	118.10
9.00	DISCHG	120.47	122.78	125.36	128.22	131.19	134.20	137.47	141.01	143.56	146.28
10.00	DISCHG	149.16	151.91	154.67	157.53	160.50	163.57	351.28	762.95	1869.62	2949.30
11.00	DISCHG	3999.05	5227.75	6552.29	7810.57	9001.30	10122.89	11204.38	12516.29	13710.12	14787.61
12.00	DISCHG	15750.75	16682.28	17345.79	17985.59	18526.45	18973.73	19333.61	19612.52	19816.79	19953.37
13.00	DISCHG	20029.04	20049.82	20021.79	19950.81	19841.90	19699.47	19528.07	19331.72	19113.51	18876.52
14.00	DISCHG	18623.75	18357.66	18080.28	17793.91	17500.72	17202.31	16900.33	16596.57	16292.46	15989.97
15.00	DISCHG	15687.50	15388.75	15093.44	14802.00	14514.81	14232.15	13954.16	13680.97	13412.61	13149.01
16.00	DISCHG	12890.11	12635.94	12386.49	12141.74	11901.82	11666.85	11436.96	11212.26	11016.11	10855.58

17.00	[redacted]HG	10696.58	10539.18	10393.45	10229.24	10076[redacted]	9925.73	9776.32	9628.43	9482.11	9337.36
18.00	[redacted]CHG	9194.18	9052.63	8912.78	8774.72	8638.[redacted]	8504.33	8372.21	8242.21	8114.35	7988.62
19.00	DISCHG	7864.98	7743.38	7623.77	7506.08	7390.23	7276.16	7163.86	7053.28	6944.44	6837.40
20.00	DISCHG	6732.23	6628.98	6527.79	6428.76	6331.95	6237.39	6145.09	6055.05	5967.24	5881.55
21.00	DISCHG	5797.88	5716.12	5636.16	5557.87	5481.09	5405.71	5331.66	5258.89	5187.39	5117.16
22.00	DISCHG	5048.18	4980.42	4913.87	4848.44	4784.03	4720.57	4657.99	4596.19	4535.03	4474.38
23.00	DISCHG	4417.22	4372.88	4328.15	4283.01	4237.50	4191.65	4145.54	4099.28	4052.95	4006.61
24.00	DISCHG	3960.31	3914.39	3867.96	3821.88	3775.74	3729.45	3682.89	3635.91	3587.92	3539.05
25.00	DISCHG	3488.94	3437.36	3384.09	3328.98	3271.92	3212.84	3151.72	3088.62	3023.73	2957.24
26.00	DISCHG	2889.39	2820.47	2750.81	2680.70	2610.42	2540.29	2470.54	2401.38	2333.02	2265.59
27.00	DISCHG	2199.24	2134.08	2070.20	2007.64	1946.47	1886.72	1828.42	1771.57	1716.18	1662.27
28.00	DISCHG	1609.80	1558.79	1508.21	1461.04	1414.26	1368.86	1324.80	1282.05	1240.60	1200.41
29.00	DISCHG	1161.45	1123.70	1087.13	1051.68	1017.36	984.12	951.93	920.77	890.60	861.38

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.2812 CFS-HRS= 152620.19 ACRE-FT= 12612.53

ENDCMP

PASS= 9

EXECUTIVE CONTROL CARD 145 OPERATION COMPUT, FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 5.78 RAIN DURATION= 1.00 RAIN TABLE NO.= 6 SOIL CONDITION= 2
ALTERNATE NO.= 2 STORM NO.= 8

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.10	761.009	(RUNOFF)
9.56	748.034	(RUNOFF)
10.06	729.072	(RUNOFF)
10.46	718.619	(RUNOFF)
14.45	190.284	(RUNOFF)
15.45	151.284	(RUNOFF)
17.49	111.986	(RUNOFF)
18.95	89.224	(RUNOFF)
19.98	89.035	(RUNOFF)
21.48	81.034	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5768 CFS-HRS= 3947.28 ACRE-FT= 326.20

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .80

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.07	500.764	(RUNOFF)
9.55	484.397	(RUNOFF)
10.04	483.177	(RUNOFF)
10.46	479.306	(RUNOFF)
14.44	126.949	(RUNOFF)
15.45	101.780	(RUNOFF)
16.45	81.113	(RUNOFF)
17.47	75.174	(RUNOFF)
18.95	59.886	(RUNOFF)
19.96	59.659	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.4770 CFS-HRS= 2603.00 ACRE-FT= 215.11

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.14	1249.810	(NULL)
9.59	1237.053	(NULL)
10.07	1210.247	(NULL)
10.46	1194.632	(NULL)
14.46	317.012	(NULL)

15.45	123.767	(RUNOFF)
17.46	91.818	(RUNOFF)
18.95	72.950	(RUNOFF)
19.95	73.155	(RUNOFF)
21.45	67.127	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.8797 CFS-HRS= 3380.20 ACRE-FT= 279.34

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.50	2899.442	(NULL)
17.59	423.535	(NULL)
20.06	330.537	(NULL)
21.56	281.001	(NULL)
22.57	211.173	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6922 CFS-HRS= 15393.26 ACRE-FT= 1272.10

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.14	757.845	(RUNOFF)
14.45	170.441	(RUNOFF)
17.56	99.049	(RUNOFF)
20.03	77.806	(RUNOFF)
21.54	69.515	(RUNOFF)
22.55	49.426	(RUNOFF)
23.46	43.234	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 4.1927 CFS-HRS= 3869.33 ACRE-FT= 319.76

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.63	3622.203	(NULL)
17.67	520.789	(NULL)
20.17	404.947	(NULL)
21.67	353.031	(NULL)
22.65	258.923	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7830 CFS-HRS= 19263.03 ACRE-FT= 1591.90

SUBROUTINE REACH CROSS SECTION 111

15.46	252.379	(NULL)
17.53	186.418	(NULL)
18.96	148.900	(NULL)
20.01	147.981	(NULL)
21.51	133.906	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5365 CFS-HRS= 6550.43 ACRE-FT= 541.33

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.45	1028.289	(RUNOFF)
9.55	1028.395	(RUNOFF)
17.60	148.987	(RUNOFF)
20.09	116.216	(RUNOFF)
21.59	102.273	(RUNOFF)
22.58	74.310	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7786 CFS-HRS= 5462.43 ACRE-FT= 451.42

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.22	2266.420	(NULL)
9.58	2266.289	(NULL)
17.55	335.364	(NULL)
20.03	263.768	(NULL)
21.53	235.375	(NULL)
22.54	168.126	(NULL)
23.46	147.359	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6426 CFS-HRS= 12012.86 ACRE-FT= 992.74

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.02	670.060	(RUNOFF)
9.50	642.476	(RUNOFF)
10.00	616.613	(RUNOFF)
10.45	605.136	(RUNOFF)
14.43	155.674	(RUNOFF)

LENGTH= 1800.00 INPUT COEFFICIENT= .800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.09	299.368	(RUNOFF)
9.58	291.123	(RUNOFF)
10.05	280.970	(RUNOFF)
10.45	275.426	(RUNOFF)
14.45	71.915	(RUNOFF)
15.45	57.129	(RUNOFF)
17.50	42.161	(RUNOFF)
18.95	33.604	(RUNOFF)
19.98	33.471	(RUNOFF)
21.47	30.382	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7782 CFS-HRS= 1536.16 ACRE-FT= 126.95

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.67	3905.592	(NULL)
20.18	434.846	(NULL)
21.68	376.304	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7827 CFS-HRS= 20799.24 ACRE-FT= 1718.85

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.06	98.770	(RUNOFF)
9.53	89.535	(RUNOFF)
10.03	87.547	(RUNOFF)
10.46	86.822	(RUNOFF)
14.45	23.106	(RUNOFF)
15.45	18.370	(RUNOFF)
17.46	13.625	(RUNOFF)
18.95	10.850	(RUNOFF)
19.96	10.878	(RUNOFF)
21.46	9.970	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.4770 CFS-HRS= 471.23 ACRE-FT= 38.54

SUBROUTINE ADDHYD CROSS SECTION 117

INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.65	3993.706	(NULL)
20.15	444.671	(NULL)
21.66	384.074	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.02	.14	.46
4.00	DISCHG	.95	1.90	2.99	4.30	5.75	7.29	8.96	11.05	13.81	17.13
5.00	DISCHG	20.73	24.40	28.05	31.66	35.36	39.36	43.68	48.21	52.89	57.79
6.00	DISCHG	63.03	69.79	80.38	95.47	114.03	133.78	155.29	182.42	215.89	254.01
7.00	DISCHG	293.42	333.63	377.12	423.88	472.21	519.85	570.49	632.83	706.28	788.15
8.00	DISCHG	874.02	986.32	1166.64	1415.88	1718.22	2042.79	2368.91	2690.90	2994.71	3261.92
9.00	DISCHG	3485.61	3662.61	3789.21	3875.21	3931.88	3970.32	3991.94	3992.09	3978.71	3960.33
10.00	DISCHG	3944.22	3928.97	3909.37	3895.48	3864.06	3846.45	3813.87	3738.69	3626.20	3486.04
11.00	DISCHG	3335.41	3171.22	2979.01	2777.92	2584.83	2412.88	2261.74	2123.09	1999.97	1898.68
12.00	DISCHG	1819.04	1756.42	1700.75	1650.02	1603.95	1563.50	1524.94	1481.83	1436.33	1390.89
13.00	DISCHG	1348.57	1308.55	1267.92	1228.76	1193.46	1163.60	1137.75	1112.83	1089.19	1067.59
14.00	DISCHG	1048.94	1033.32	1020.23	1009.91	1002.35	997.53	991.48	978.94	960.52	937.07
15.00	DISCHG	911.39	885.40	859.96	837.48	820.08	808.05	799.21	790.59	781.36	771.17
16.00	DISCHG	760.69	750.29	739.99	730.65	723.14	717.51	711.06	699.93	684.48	665.54
17.00	DISCHG	645.14	625.22	607.13	592.47	582.76	577.72	575.69	574.59	573.27	570.95
18.00	DISCHG	567.61	562.26	553.40	542.05	529.28	516.41	504.09	492.64	482.88	475.57
19.00	DISCHG	470.71	467.08	463.13	458.52	453.10	447.31	442.20	438.96	437.80	438.92
20.00	DISCHG	441.75	444.30	444.31	441.42	435.51	427.47	417.59	405.68	393.21	381.47
21.00	DISCHG	371.37	364.34	361.97	363.62	368.96	376.59	382.88	383.62	378.10	366.53
22.00	DISCHG	350.88	333.69	317.02	302.99	293.55	288.58	286.38	284.83	282.79	279.59
23.00	DISCHG	275.36	270.63	265.84	261.58	258.40	256.34	254.60	251.97	248.43	243.99
24.00	DISCHG	238.89	230.26	213.95	191.43	164.42	135.90	107.61	80.32	56.22	37.28
25.00	DISCHG	23.84	15.02	9.45	5.97	3.79	2.42	1.55	1.00	.64	.40
26.00	DISCHG	.24	.14	.07	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7753 CFS-HPS= 21270.47 ACRE-FT= 1757.79

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.44	815.725	1982.61

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.01	.02	.04	.07	.11	.16	.23	.31	.41	.53
5.00	DISCHG	.68	.86	1.06	1.30	1.56	1.85	2.17	2.53	2.92	3.34
6.00	DISCHG	3.81	4.32	4.89	5.57	6.37	7.33	8.44	9.75	11.29	13.11

7.00	DISCHG	15.22	19.06	24.14	29.82	36.13	43.08	52.02	62.74	74.58	02
8.00	DISCHG	87.42	87.88	88.29	88.71	89.33	90.02	90.83	91.59	92.41	.31
9.00	DISCHG	94.23	95.05	95.91	96.80	97.70	98.62	99.54	100.39	101.17	1.94
10.00	DISCHG	102.71	103.41	104.07	104.73	105.40	106.00	106.00	106.31	106.85	107.50
11.00	DISCHG	123.41	180.98	234.20	282.83	326.95	366.89	403.13	436.04	465.93	493.21
12.00	DISCHG	518.32	541.67	563.50	583.95	603.13	621.16	638.14	654.05	668.86	682.55
13.00	DISCHG	695.19	706.84	717.53	727.30	736.19	744.33	751.80	758.67	764.97	770.73
14.00	DISCHG	776.02	780.90	785.42	789.64	793.62	797.42	801.04	804.43	807.47	810.07
15.00	DISCHG	812.17	813.75	814.84	815.46	815.70	815.67	815.45	815.07	814.54	813.84
16.00	DISCHG	812.95	811.90	810.67	809.28	807.77	806.16	804.47	802.65	800.62	798.31
17.00	DISCHG	795.68	792.73	789.48	785.99	782.34	778.63	774.91	771.24	767.61	764.01
18.00	DISCHG	760.43	756.84	753.19	749.40	745.47	741.37	737.12	732.73	728.23	723.65
19.00	DISCHG	719.04	714.44	709.85	705.27	700.69	696.08	691.46	686.84	682.27	677.79
20.00	DISCHG	673.42	669.18	665.05	660.56	656.87	652.72	648.49	644.13	639.63	634.99
21.00	DISCHG	630.24	625.41	620.59	615.85	611.20	606.87	602.69	598.66	594.65	590.56
22.00	DISCHG	586.38	581.81	577.10	572.18	567.15	562.07	557.02	552.03	547.09	542.20
23.00	DISCHG	537.33	532.47	527.61	522.76	517.93	513.13	508.40	503.70	499.04	494.39
24.00	DISCHG	489.74	485.05	480.21	475.11	469.64	463.77	457.48	450.79	443.75	436.45
25.00	DISCHG	428.99	421.46	413.93	406.46	399.07	391.79	384.62	377.57	370.64	363.84
26.00	DISCHG	357.15	350.58	344.14	337.81	331.60	325.50	319.51	313.64	307.87	302.21
27.00	DISCHG	296.65	291.19	285.84	280.58	275.42	270.35	265.38	260.50	255.71	251.01
28.00	DISCHG	246.39	241.86	237.41	233.04	228.76	224.55	220.42	216.37	212.39	208.48
29.00	DISCHG	204.65	200.88	197.19	193.56	190.00	186.51	183.08	179.71	176.41	173.16

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9303 CFS-HRS= 10875.64 ACRE-FT= 898.76

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
17.07	815.168	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9740 CFS-HRS= 10558.12 ACRE-FT= 872.52

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.09	1936.695	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.0897 CFS-HRS= 11704.68 ACRE-FT= 967.27

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.09	2035.449	(NULL)
13.03	1509.742	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

[redacted]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
[redacted]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.01	.02	.04	.07	.10
6.00	DISCHG	.15	.21	.28	.48	.75	1.05	1.55	2.78	4.03	5.32
7.00	DISCHG	8.33	11.96	15.62	20.44	28.21	36.02	43.88	56.53	70.33	84.24
8.00	DISCHG	102.87	130.05	157.41	185.02	233.62	285.35	337.85	403.71	487.10	571.41
9.00	DISCHG	656.81	760.24	865.18	970.01	1073.28	1174.38	1273.60	1370.80	1452.54	1533.81
10.00	DISCHG	1614.85	1693.58	1743.32	1803.08	1860.39	1898.52	1936.65	1974.79	1997.43	2011.79
11.00	DISCHG	2026.14	2035.38	2022.63	2009.86	1997.05	1967.33	1931.19	1895.02	1855.23	1805.32
12.00	DISCHG	1755.32	1705.26	1654.44	1605.86	1563.95	1534.04	1518.22	1509.88	1505.45	1507.78
13.00	DISCHG	1509.66	1509.08	1507.98	1507.37	1504.03	1498.25	1494.87	1489.87	1483.26	1477.45
14.00	DISCHG	1472.70	1466.74	1459.74	1456.15	1451.48	1445.75	1441.11	1437.16	1432.27	1426.69
15.00	DISCHG	1422.03	1416.62	1410.54	1404.27	1397.65	1390.60	1383.30	1376.70	1369.77	1362.55
16.00	DISCHG	1356.09	1349.79	1343.22	1336.65	1330.67	1324.26	1317.41	1310.84	1304.04	1296.85
17.00	DISCHG	1289.33	1281.51	1273.45	1265.20	1256.88	1248.40	1239.75	1231.41	1223.66	1215.77
18.00	DISCHG	1207.75	1200.36	1192.86	1185.18	1177.41	1169.54	1161.41	1153.01	1144.42	1135.65
19.00	DISCHG	1126.75	1117.90	1109.12	1100.33	1091.61	1083.50	1075.38	1067.20	1059.51	1052.06
20.00	DISCHG	1044.48	1036.91	1029.99	1022.97	1015.86	1008.64	1001.36	994.07	986.63	978.73
21.00	DISCHG	970.83	962.92	955.21	947.59	940.03	932.67	925.70	918.81	911.97	905.09
22.00	DISCHG	898.18	891.22	883.83	875.77	867.60	859.34	850.74	842.09	833.49	825.04
23.00	DISCHG	816.89	808.69	800.68	792.98	785.26	777.46	769.89	762.51	754.96	747.27
24.00	DISCHG	739.01	730.72	722.43	712.99	702.81	692.65	682.19	669.73	657.29	644.86
25.00	DISCHG	631.75	618.33	604.94	591.73	579.11	566.48	553.79	542.29	531.03	519.51
26.00	DISCHG	508.24	498.06	487.53	476.67	466.74	456.87	446.85	437.09	427.88	418.71
27.00	DISCHG	409.60	401.11	392.79	384.57	376.65	369.08	361.62	354.29	347.33	340.51
28.00	DISCHG	333.79	327.29	320.98	314.79	308.70	302.83	297.07	291.40	285.88	280.49
29.00	DISCHG	275.20	270.01	264.96	260.00	255.13	250.37	245.70	241.12	236.63	232.16

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.3628 CFS-HRS= 22262.80 ACRE-FT= 1839.80

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.45	2376.066	(RUNOFF)
21.63	238.523	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6772 CFS-HRS= 13099.71 ACRE-FT= 1082.56

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.09	5995.584	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6769 CFS-HRS= 31109.68 ACRE-FT= 2570.90

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.07	7463.567	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6770 CFS-HRS= 44209.01 ACRE-FT= 3653.43

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.82	2762.385	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.4775 CFS-HRS= 16091.61 ACRE-FT= 1329.81

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.99	10198.409	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.01	.02	.16
5.00	DISCHG	.35	.61	.84	1.80	2.89	4.05	5.74	8.87	12.26	16.24
6.00	DISCHG	22.16	29.66	37.92	47.54	60.68	75.71	93.37	111.82	138.55	169.94
7.00	DISCHG	202.45	239.69	290.72	343.47	398.16	469.23	548.10	628.84	718.77	834.25
8.00	DISCHG	954.55	1093.49	1247.89	1447.93	1677.14	1923.55	2209.28	2570.31	2963.43	3374.43
9.00	DISCHG	3850.09	4366.71	4896.51	5430.86	5963.60	6493.62	7005.93	7476.51	7903.58	8305.75
10.00	DISCHG	8666.13	8978.62	9247.26	9481.55	9705.41	9863.71	9980.38	10090.96	10189.07	10195.96
11.00	DISCHG	10198.40	10195.32	10123.64	9998.93	9862.81	9692.25	9469.24	9218.30	8950.11	8672.18
12.00	DISCHG	8366.07	8059.84	7756.28	7457.11	7171.97	6898.60	6631.58	6385.22	6158.80	5938.01
13.00	DISCHG	5725.45	5536.56	5354.35	5176.56	5006.23	4851.28	4698.74	4551.74	4410.85	4280.71
14.00	DISCHG	4157.48	4035.91	3924.79	3825.88	3728.66	3633.03	3553.46	3476.49	3401.12	3330.42
15.00	DISCHG	3266.73	3203.89	3141.28	3079.78	3019.11	2958.32	2896.85	2837.71	2780.48	2724.28
16.00	DISCHG	2669.99	2619.71	2572.27	2525.69	2481.77	2441.59	2401.69	2362.10	2324.34	2287.87
17.00	DISCHG	2251.50	2214.67	2178.03	2140.97	2103.38	2065.24	2027.89	1991.63	1955.52	1921.26
18.00	DISCHG	1890.76	1861.37	1833.10	1807.08	1782.16	1757.56	1732.79	1708.56	1683.80	1658.34
19.00	DISCHG	1632.40	1606.54	1580.90	1555.57	1531.30	1508.66	1486.94	1465.68	1447.22	1429.59
20.00	DISCHG	1412.90	1396.71	1383.27	1370.28	1357.81	1345.84	1334.49	1323.01	1310.51	1296.95
21.00	DISCHG	1282.33	1266.70	1250.25	1233.74	1217.59	1201.30	1185.40	1171.57	1158.76	1147.09
22.00	DISCHG	1135.45	1124.12	1112.93	1100.00	1084.40	1067.11	1048.34	1028.49	1008.06	987.73
23.00	DISCHG	967.87	948.80	931.11	914.36	898.05	882.97	868.76	854.59	840.43	826.43
24.00	DISCHG	812.62	798.76	782.15	763.39	743.10	720.18	693.93	663.39	628.69	592.22
25.00	DISCHG	551.58	508.49	464.46	420.09	376.83	338.36	299.02	264.64	234.50	205.77
26.00	DISCHG	180.38	159.24	140.69	123.91	108.09	95.97	85.27	75.23	65.78	58.79
27.00	DISCHG	52.27	45.98	40.46	36.20	32.00	27.98	24.93	22.20	19.55	17.07

2[illegible]	DISCHG	15.26	13.51	11.87	10.3[illegible]	9.23	8.18	7.14	6.27	5.59	[illegible]91
2[illegible]	DISCHG	4.22	3.73	3.27	2.8[illegible]	2.40	2.10	1.81	1.53	1.29	[illegible].11

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6215 CFS-HRS= 60300.62 ACRE-FT= 4983.24

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.15	10193.713	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6215 CFS-HRS= 60300.34 ACRE-FT= 4983.22

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.63	2299.987	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.3790 CFS-HRS= 12909.59 ACRE-FT= 1066.85

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.04	12391.293	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5763 CFS-HRS= 73209.92 ACRE-FT= 6050.07

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 9500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.34	12365.079	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.01	.03	.09	.22	.40	.68	1.20	1.99	3.04
6.00	DISCHG	4.52	6.77	9.77	13.75	19.13	26.09	34.98	45.82	59.64	76.71
7.00	DISCHG	97.00	121.38	150.72	186.47	227.74	275.29	331.16	394.22	465.55	546.58
8.00	DISCHG	636.43	740.04	853.53	986.78	1138.45	1316.83	1525.02	1771.21	2063.34	2394.54
9.00	DISCHG	2773.45	3205.92	3685.29	4204.50	4764.78	5358.81	5978.53	6605.59	7229.59	7844.86
10.00	DISCHG	8438.34	9001.69	9523.24	10003.08	10439.92	10829.02	11171.70	11469.36	11728.24	11940.97
11.00	DISCHG	12106.42	12234.77	12321.72	12361.88	12356.07	12311.56	12222.98	12084.24	11905.43	11687.91
12.00	DISCHG	11431.09	11140.47	10825.08	10490.61	10143.03	9786.66	9429.52	9077.38	8734.48	8404.41

13.00	DISCHG	8087.11	7785.94	7501.95	7232.66	6977.13	6736.21	6509.52	6293.76	6088.35	5[illegible].89
14.00	DISCHG	5798.78	5532.34	5363.85	5204.7[illegible]	5054.48	4911.96	4778.52	4654.40	4538.35	[illegible].11
15.00	DISCHG	4327.38	4232.25	4141.93	4055.3[illegible]	3972.72	3893.52	3816.56	3741.28	3667.65	[illegible]4.99
16.00	DISCHG	3523.46	3453.39	3385.15	3318.89	3254.71	3193.71	3135.81	3080.43	3027.52	2977.07
17.00	DISCHG	2928.24	2880.52	2833.46	2787.02	2741.07	2695.32	2649.60	2604.40	2559.46	2514.90
18.00	DISCHG	2471.21	2428.48	2387.01	2347.15	2309.27	2273.24	2238.75	2205.49	2173.35	2141.92
19.00	DISCHG	2110.84	2080.12	2049.63	2019.05	1988.50	1958.03	1927.82	1898.08	1869.15	1841.55
20.00	DISCHG	1815.22	1790.46	1767.59	1746.47	1726.78	1708.35	1691.09	1674.85	1659.10	1643.45
21.00	DISCHG	1627.93	1612.05	1595.53	1578.30	1560.27	1541.60	1522.96	1504.41	1486.46	1469.12
22.00	DISCHG	1452.09	1435.41	1419.42	1403.16	1386.63	1369.95	1352.56	1335.21	1316.30	1295.90
23.00	DISCHG	1274.29	1251.68	1228.41	1205.01	1181.80	1159.23	1137.57	1116.91	1097.20	1078.44
24.00	DISCHG	1060.57	1043.33	1026.08	1008.58	990.59	971.10	949.79	925.17	897.29	866.23
25.00	DISCHG	831.53	792.85	751.04	706.09	658.63	609.22	558.47	508.09	458.98	411.89
26.00	DISCHG	367.17	325.65	287.97	253.72	223.02	195.95	172.28	151.42	132.89	116.82
27.00	DISCHG	102.95	90.75	79.91	70.49	62.30	54.99	48.51	42.87	37.89	33.41
28.00	DISCHG	29.48	26.06	23.00	20.25	17.86	15.76	13.88	12.20	10.74	9.47
29.00	DISCHG	8.34	7.34	6.47	5.70	4.99	4.37	3.83	3.33	2.89	2.44

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5762 CFS-HRS= 73209.44 ACRE-FT= 6050.03

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES 11.31 PEAK DISCHARGES 14371.943 PEAK ELEVATIONS 1588.83

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.01	.03	.09	.22	.41	.70	1.23	2.05	3.15
6.00	DISCHG	4.67	6.97	10.05	14.23	19.89	27.14	36.53	48.60	63.67	82.03
7.00	DISCHG	105.32	133.34	166.34	206.91	255.95	311.30	375.03	450.75	535.88	630.82
8.00	DISCHG	741.31	870.09	1010.94	1171.79	1372.07	1602.18	1862.87	2174.92	2550.44	2965.95
9.00	DISCHG	3430.26	3966.16	4550.47	5174.51	5838.06	6533.18	7252.13	7976.39	8682.13	9378.66
10.00	DISCHG	10053.19	10685.27	11266.56	11806.16	12300.21	12727.53	13108.35	13444.15	13725.67	13952.76
11.00	DISCHG	14132.56	14270.15	14344.42	14371.74	14353.12	14278.89	14154.16	13979.86	13760.66	13493.23
12.00	DISCHG	13196.41	12845.74	12479.52	12096.47	11706.98	11320.70	10947.74	10587.26	10239.93	9912.19
13.00	DISCHG	9596.76	9295.02	9009.93	8740.03	8481.16	8234.46	8004.39	7783.64	7571.61	7371.33
14.00	DISCHG	7181.48	6999.08	6823.58	6660.88	6505.96	6357.71	6219.63	6091.56	5970.62	5855.80
15.00	DISCHG	5749.41	5648.87	5552.46	5459.59	5370.41	5284.13	5199.86	5117.99	5037.42	4957.54
16.00	DISCHG	4879.55	4803.18	4728.38	4655.54	4585.38	4517.98	4453.22	4391.26	4331.56	4273.92
17.00	DISCHG	4217.57	4162.03	4106.92	4052.22	3997.95	3943.72	3889.35	3835.81	3783.12	3730.67
18.00	DISCHG	3678.96	3628.83	3579.87	3532.33	3486.67	3442.78	3400.16	3358.50	3317.77	3277.56
19.00	DISCHG	3237.59	3198.01	3158.75	3119.38	3080.11	3041.53	3003.19	2965.29	2928.66	2893.60
20.00	DISCHG	2859.70	2827.37	2797.58	2769.44	2742.63	2716.99	2692.45	2668.92	2645.73	2622.19
21.00	DISCHG	2598.76	2574.97	2550.74	2525.89	2500.29	2474.27	2448.66	2423.22	2398.43	2374.21
22.00	DISCHG	2350.27	2326.43	2303.25	2278.93	2254.23	2229.29	2203.70	2177.30	2149.79	2120.94
23.00	DISCHG	2091.09	2060.37	2029.09	1997.99	1967.06	1936.69	1907.47	1879.42	1852.16	1825.70
24.00	DISCHG	1799.59	1774.35	1748.50	1721.57	1693.39	1663.75	1631.98	1594.90	1554.58	1511.10

25	DISCHG	1463.28	1411.28	1355.98	1297.8	1237.74	1175.70	1112.26	1050.37	990.01	.39
[illegible]	DISCHG	875.41	823.71	775.50	730.	689.76	652.82	619.13	588.51	560.77	5.53
2..00	DISCHG	512.55	491.86	472.70	455.0	438.95	424.07	410.14	397.16	385.22	373.92
28.00	DISCHG	363.28	353.35	343.98	335.04	326.56	318.59	310.95	303.61	296.63	289.97
29.00	DISCHG	283.54	277.35	271.43	265.69	260.12	254.74	249.53	244.46	239.52	234.60

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.1937 CFS-HRS= 95472.24 ACRE-FT= 7889.83

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
17.98	3687.854	1585.71

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.01	.02
6.00	DISCHG	.04	.06	.09	.13	.20	.28	.40	.56	.76	1.03
7.00	DISCHG	1.37	1.81	2.36	3.04	3.88	4.92	6.17	7.68	9.48	11.60
8.00	DISCHG	14.10	17.03	20.45	24.41	29.02	34.43	40.71	48.04	56.61	66.61
9.00	DISCHG	78.20	91.60	93.47	95.19	97.15	99.35	101.80	104.52	107.11	109.51
10.00	DISCHG	112.09	114.84	117.76	120.23	122.40	124.66	126.98	129.37	131.58	133.75
11.00	DISCHG	135.95	138.17	140.41	142.12	143.63	145.13	146.63	148.11	149.56	150.87
12.00	DISCHG	152.10	153.29	154.46	155.58	156.68	157.73	158.75	159.75	160.72	161.66
13.00	DISCHG	162.56	163.44	164.29	177.13	264.32	348.00	428.35	505.53	579.68	650.94
14.00	DISCHG	832.28	1038.93	1232.85	1414.78	1585.45	1745.49	1895.51	2036.19	2168.11	2291.78
15.00	DISCHG	2407.71	2516.40	2618.25	2713.60	2802.81	2886.17	2963.96	3036.45	3103.85	3166.38
16.00	DISCHG	3224.24	3277.64	3326.78	3371.86	3413.09	3450.69	3484.87	3515.82	3543.74	3568.81
17.00	DISCHG	3591.16	3610.33	3628.21	3643.12	3655.73	3666.14	3674.41	3680.62	3684.87	3687.25
18.00	DISCHG	3687.83	3686.71	3683.99	3679.77	3674.15	3667.23	3659.12	3649.88	3639.58	3628.29
19.00	DISCHG	3616.05	3602.90	3588.88	3574.03	3558.36	3541.93	3524.78	3506.93	3488.44	3469.37
20.00	DISCHG	3449.80	3429.78	3409.40	3388.73	3367.84	3346.77	3325.57	3304.27	3282.91	3261.48
21.00	DISCHG	3239.98	3218.41	3196.77	3175.02	3153.16	3131.18	3109.06	3086.83	3064.51	3042.11
22.00	DISCHG	3019.66	2997.17	2974.64	2952.07	2929.43	2906.72	2883.93	2861.03	2838.00	2814.80
23.00	DISCHG	2791.39	2767.76	2743.88	2719.77	2695.42	2670.87	2646.14	2621.29	2596.34	2571.33
24.00	DISCHG	2546.27	2521.20	2496.10	2470.97	2445.76	2420.42	2394.91	2369.11	2342.88	2316.13
25.00	DISCHG	2288.75	2260.64	2231.68	2201.80	2170.96	2139.11	2106.25	2072.41	2037.66	2002.10
26.00	DISCHG	1965.82	1928.96	1891.66	1854.06	1816.28	1778.47	1740.75	1703.20	1665.94	1629.03
27.00	DISCHG	1592.54	1556.53	1521.06	1486.15	1451.83	1418.14	1385.09	1352.68	1320.93	1289.84
28.00	DISCHG	1259.42	1229.66	1200.57	1172.14	1144.36	1117.22	1090.72	1064.85	1039.60	1014.95
29.00	DISCHG	990.91	967.45	944.56	922.24	900.46	879.23	858.52	838.33	818.64	799.43

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3895 CFS-HRS= 41537.28 ACRE-FT= 3432.64

ENDCMP

PASS= 10

EXECUTI CONTROL CARD 147 OPERATION COMPUT, FROM CTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 10.96 RAIN DURATION= 1.00 RAIN TABLE NO.= 6 SOIL CONDITION=
ALTERNATE NO.= 2 STORM NO.= 9

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.04	1863.767	(RUNOFF)
14.45	395.531	(RUNOFF)
15.43	312.666	(RUNOFF)
17.49	230.077	(RUNOFF)
18.95	182.893	(RUNOFF)
19.97	162.170	(RUNOFF)
21.48	165.424	(RUNOFF)
22.48	115.170	(RUNOFF)
23.46	99.962	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4267 CFS-HRS= 9299.60 ACRE-FT= 768.52

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.02	1247.335	(RUNOFF)
9.47	1164.481	(RUNOFF)
9.97	1097.061	(RUNOFF)
10.45	1061.677	(RUNOFF)
14.41	266.081	(RUNOFF)
15.44	211.058	(RUNOFF)
17.47	155.747	(RUNOFF)
18.95	123.643	(RUNOFF)
19.96	123.552	(RUNOFF)
21.46	112.719	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.0935 CFS-HRS= 6208.76 ACRE-FT= 513.09

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.07	3096.920	(NULL)
14.45	661.350	(NULL)
15.45	524.085	(NULL)
17.53	384.517	(NULL)
18.96	306.138	(NULL)
20.00	303.661	(NULL)

1.50	274.144	(NULL)
22.52	192.135	(NULL)
23.46	167.155	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.3731 CFS-HRS= 15508.74 ACRE-FT= 1281.64

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.20	2449.522	(RUNOFF)
17.60	302.139	(RUNOFF)
20.09	234.654	(RUNOFF)
21.58	206.100	(RUNOFF)
22.58	149.600	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6696 CFS-HRS= 12561.94 ACRE-FT= 1038.12

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.11	5530.891	(NULL)
17.55	686.579	(NULL)
20.03	537.446	(NULL)
21.53	478.611	(NULL)
22.54	341.435	(NULL)
23.45	298.992	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5118 CFS-HRS= 28070.68 ACRE-FT= 2319.76

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
8.65	1516.548	(RUNOFF)
8.98	1553.175	(RUNOFF)
9.46	1424.754	(RUNOFF)
9.96	1328.375	(RUNOFF)
14.40	316.109	(RUNOFF)
15.41	250.457	(RUNOFF)
17.46	184.901	(RUNOFF)
18.94	146.119	(RUNOFF)
19.95	146.746	(RUNOFF)

21.50	274.144	(NULL)
22.52	192.135	(NULL)
23.46	167.155	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.3731 CFS-HRS= 15508.74 ACRE-FT= 1281.64

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.20	2449.522	(RUNOFF)
17.60	302.139	(RUNOFF)
20.09	234.654	(RUNOFF)
21.58	206.100	(RUNOFF)
22.58	149.600	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6696 CFS-HRS= 12561.94 ACRE-FT= 1038.12

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.11	5530.891	(NULL)
17.55	686.579	(NULL)
20.03	537.446	(NULL)
21.53	478.611	(NULL)
22.54	341.435	(NULL)
23.45	298.992	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5118 CFS-HRS= 28070.68 ACRE-FT= 2319.76

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
8.65	1516.548	(RUNOFF)
8.98	1553.175	(RUNOFF)
9.46	1424.754	(RUNOFF)
9.96	1328.375	(RUNOFF)
14.40	316.109	(RUNOFF)
15.41	250.457	(RUNOFF)
17.46	184.901	(RUNOFF)
18.94	146.119	(RUNOFF)
19.95	146.746	(RUNOFF)

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          21.45                    134.422                    (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    8.91        CFS-HRS=      7681.86        ACRE-FT=      634.

SUBROUTINE ADDHYD    CROSS SECTION  13
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                  PEAK DISCHARGES             PEAK ELEVATIONS
              9.19                       6936.477                    (NULL)
             17.58                        854.244                    (NULL)
             20.06                        672.185                    (NULL)
             21.57                        589.388                    (NULL)
             22.57                        427.531                    (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    8.9758      CFS-HRS=     35753.10        ACRE-FT=     2954.64

SUBROUTINE REACH     CROSS SECTION 112
          LENGTH=    4600.00     INPUT COEFFICIENT=    .8000     INPUT ROUTINGS=    .00

          AVERAGE WATER VELOCITY=    6.800       AVERAGE ROUTING COEFF=  .8000       NUMBER OF ROUTINGS=  1.50

SUBROUTINE RUNOFF    CROSS SECTION  12
          AREA=    1.43     INPUT RUNOFF CURVE=  86.0     TIME OF CONCENTRATION=    .45

          PEAK TIMES                  PEAK DISCHARGES             PEAK ELEVATIONS
              9.37                       1686.538                    (RUNOFF)
             17.56                        195.914                    (RUNOFF)
             20.03                        153.458                    (RUNOFF)
             21.54                        136.929                    (RUNOFF)
             22.55                         97.293                    (RUNOFF)
             23.46                         85.063                    (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    9.2050      CFS-HRS=      8495.05        ACRE-FT=      702.03

SUBROUTINE ADDHYD    CROSS SECTION  12
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                  PEAK DISCHARGES             PEAK ELEVATIONS
              9.32                       8544.625                    (NULL)
             17.67                       1056.633                    (NULL)
             20.17                        818.025                    (NULL)
             21.68                        711.757                    (NULL)
             22.65                        521.436                    (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    8.6900      CFS-HRS=     44249.26        ACRE-FT=     3656.76

SUBROUTINE REACH     CROSS SECTION 111
          LENGTH=    1900.00     INPUT COEFFICIENT=    .8000     INPUT ROUTINGS=    .00

          AVERAGE WATER VELOCITY=    6.800       AVERAGE ROUTING COEFF=  .8000       NUMBER OF ROUTINGS=   .59
```

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.03	707.918	(RUNOFF)
14.43	146.747	(RUNOFF)
15.41	116.313	(RUNOFF)
17.49	85.478	(RUNOFF)
18.95	67.945	(RUNOFF)
19.98	57.570	(RUNOFF)
21.47	61.216	(RUNOFF)
22.49	42.725	(RUNOFF)
23.45	37.090	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4887 CFS-HRS= 3532.68 ACRE-FT= 291.94

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.39	9193.956	(NULL)
20.18	878.333	(NULL)
21.69	758.494	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4899 CFS-HRS= 47782.07 ACRE-FT= 3948.71

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.20	226.103	(RUNOFF)
9.49	210.976	(RUNOFF)
9.97	198.604	(RUNOFF)
14.41	48.178	(RUNOFF)
15.45	38.315	(RUNOFF)
17.46	28.228	(RUNOFF)
18.95	22.401	(RUNOFF)
19.96	22.416	(RUNOFF)
21.45	20.495	(RUNOFF)
22.46	14.196	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.2937 CFS-HRS= 1124.03 ACRE-FT= 92.88

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.39	9403.917	(NULL)
20.15	898.485	(NULL)
21.66	774.420	(NULL)

TIME				HYDROGRAPH, IZERO=		DELTA T= .10		DRAINAGE AREA= 8.73			
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.01	.09	.46	1.44	3.24	5.73	8.68	12.20	16.78
3.00	DISCHG	22.62	29.44	37.08	45.71	55.41	65.97	77.45	90.23	104.52	120.03
4.00	DISCHG	136.30	153.42	172.15	192.57	214.21	236.09	258.03	280.73	304.17	327.86
5.00	DISCHG	351.02	372.90	392.74	410.56	426.49	441.07	454.23	465.28	474.51	482.55
6.00	DISCHG	490.52	505.40	537.73	587.30	650.88	721.08	800.75	901.77	1019.93	1147.22
7.00	DISCHG	1273.39	1398.33	1529.63	1664.07	1795.32	1917.84	2044.87	2202.52	2385.29	2585.59
8.00	DISCHG	2794.42	3074.71	3531.62	4147.95	4891.39	5658.36	6429.66	7177.26	7856.38	8416.21
9.00	DISCHG	8844.20	9141.79	9312.68	9389.81	9403.62	9380.48	9324.56	9227.57	9109.60	8989.62
10.00	DISCHG	8882.03	8782.32	8676.71	8572.13	8476.06	8392.45	8280.63	8082.97	7812.38	7487.92
11.00	DISCHG	7148.91	6769.75	6339.93	5896.50	5474.68	5099.92	4770.02	4467.78	4200.28	3979.30
12.00	DISCHG	3807.52	3670.91	3549.66	3439.73	3340.27	3252.74	3169.16	3076.47	2979.54	2883.27
13.00	DISCHG	2793.53	2708.32	2621.95	2536.98	2464.34	2401.09	2346.12	2293.15	2243.08	2197.44
14.00	DISCHG	2157.89	2124.51	2096.32	2073.68	2057.22	2046.24	2032.82	2006.32	1968.13	1919.80
15.00	DISCHG	1866.72	1812.67	1759.62	1712.57	1676.09	1650.74	1632.03	1613.97	1594.63	1573.52
16.00	DISCHG	1551.73	1529.98	1508.39	1488.80	1472.96	1461.01	1447.42	1424.45	1392.92	1354.39
17.00	DISCHG	1312.74	1271.83	1234.48	1204.10	1183.82	1173.15	1168.74	1166.28	1163.47	1158.65
18.00	DISCHG	1151.70	1140.60	1122.40	1099.26	1073.30	1047.08	1021.88	998.36	978.27	963.19
19.00	DISCHG	953.11	945.59	937.46	928.05	917.03	905.24	894.73	887.96	885.34	887.32
20.00	DISCHG	892.81	897.86	897.84	892.06	880.23	863.98	843.87	819.62	794.27	770.46
21.00	DISCHG	749.97	735.63	730.65	733.59	744.16	759.35	771.99	778.56	782.73	783.73
22.00	DISCHG	728.32	673.52	639.63	611.00	591.66	581.45	576.94	573.82	569.78	563.39
23.00	DISCHG	554.90	545.32	535.56	526.88	520.37	516.16	512.59	507.28	500.20	491.30
24.00	DISCHG	481.05	463.62	430.82	385.74	331.73	274.51	217.46	162.27	113.51	75.20
25.00	DISCHG	48.07	30.25	19.02	12.01	7.62	4.86	3.13	2.02	1.29	.81
26.00	DISCHG	.49	.28	.14	.06	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6804 CFS-HRS= 48906.10 ACRE-FT= 4041.60

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.33	5786.677	1987.73

TIME				HYDROGRAPH, IZERO= .00		DELTA T= .10		DRAINAGE AREA= 8.73			
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.01	.03	.07	.12	.21	.32
3.00	DISCHG	.48	.69	.95	1.28	1.68	2.16	2.73	3.39	4.15	5.03
4.00	DISCHG	6.03	7.16	8.42	9.84	11.41	13.15	15.05	18.08	22.22	26.65
5.00	DISCHG	31.38	36.37	41.60	47.33	54.58	61.97	69.50	77.11	84.77	87.15
6.00	DISCHG	87.37	87.59	87.82	88.06	88.26	88.49	88.75	89.04	89.38	89.76
7.00	DISCHG	90.20	90.68	91.16	91.60	92.09	92.61	93.17	93.78	94.34	94.91
8.00	DISCHG	95.53	96.20	96.96	97.85	98.90	100.10	101.29	102.63	103.96	105.37
9.00	DISCHG	106.00	107.31	213.64	381.69	547.49	710.15	869.10	1023.72	1173.51	1403.85
10.00	DISCHG	2039.20	2557.57	3053.62	3501.35	3905.04	4269.05	4595.96	4884.16	5130.38	5332.90
11.00	DISCHG	5492.24	5644.62	5743.72	5784.49	5773.73	5720.77	5635.22	5524.57	5425.59	5318.23
12.00	DISCHG	5203.72	5086.01	4967.41	4849.04	4731.78	4616.42	4503.47	4392.50	4282.84	4174.22
13.00	DISCHG	4066.86	3961.09	3856.94	3754.34	3653.66	3555.54	3460.54	3368.85	3280.38	3195.18

14.00	DISCHG	3113.40	3035.26	2960.93	2890.5[illegible]	2824.22	2762.13	2704.05	2649.04	2595.85	[illegible].46
15.00	DISCHG	2491.20	2438.84	2386.38	2334.1[illegible]	2282.70	2232.92	2185.38	2140.18	2097.10	[illegible].87
16.00	DISCHG	2016.23	1978.02	1941.14	1905.5[illegible]	1871.44	1838.93	1808.01	1778.11	1748.42	1[illegible].30
17.00	DISCHG	1687.38	1655.62	1623.27	1590.81	1558.91	1528.34	1499.61	1472.92	1448.16	1425.09
18.00	DISCHG	1403.39	1382.72	1362.53	1342.30	1321.72	1300.70	1289.87	1284.72	1279.27	1273.60
19.00	DISCHG	1267.79	1261.94	1256.04	1250.10	1244.07	1237.95	1231.74	1225.48	1219.24	1213.12
20.00	DISCHG	1207.12	1201.44	1195.86	1190.33	1184.73	1178.98	1173.00	1166.73	1160.11	1153.16
21.00	DISCHG	1145.94	1138.52	1131.07	1123.73	1116.65	1109.94	1103.61	1097.53	1091.47	1085.21
22.00	DISCHG	1078.57	1071.44	1063.81	1055.74	1047.30	1038.91	1030.46	1022.09	1013.81	1005.58
23.00	DISCHG	997.37	989.14	980.89	972.62	964.36	956.16	948.03	939.98	931.95	923.93
24.00	DISCHG	915.88	907.72	899.25	890.22	880.45	869.93	858.36	846.06	833.04	819.45
25.00	DISCHG	805.52	791.42	777.32	763.31	749.45	735.78	722.32	709.09	696.08	683.29
26.00	DISCHG	674.74	658.41	646.30	634.42	622.75	611.30	600.06	589.02	578.19	567.55
27.00	DISCHG	557.12	546.87	536.81	526.94	517.25	507.73	498.40	489.23	480.23	471.40
28.00	DISCHG	462.73	454.22	445.87	437.67	429.62	421.72	413.96	406.35	398.87	391.54
29.00	DISCHG	384.34	377.27	370.33	363.52	356.83	350.27	343.83	337.51	331.30	325.20

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6895 CFS-HRS= 37688.94 ACRE-FT= 3114.61

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.92	5690.762	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.5843 CFS-HRS= 37096.28 ACRE-FT= 3065.64

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.27 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.79	4915.525	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.7609 CFS-HRS= 29400.93 ACRE-FT= 2429.69

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5.6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.65	8614.137	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
4.00	DISCHG	.30	.48	.95	1.79	2.67	3.58	5.97	8.43	10.96	14.62
5.00	DISCHG	19.35	24.17	29.19	36.18	43.27	50.48	58.56	67.28	76.14	85.35
6.00	DISCHG	95.99	107.05	118.69	132.91	148.74	165.02	183.21	207.55	232.45	257.88
7.00	DISCHG	291.54	328.12	364.36	403.16	449.70	494.87	538.95	593.92	651.05	707.96
8.00	DISCHG	776.87	867.85	958.83	1049.83	1194.93	1346.65	1498.40	1680.37	1902.61	2124.88
9.00	DISCHG	2347.18	2594.05	2841.82	3089.60	3324.29	3546.04	3767.84	3987.35	4150.22	4313.19

12.00	DISCHG	4476.26	4601.48	4658.97	4796.49	4890.17	4947.13	5028.46	5141.93	5252.17	[illegible].02
13.00	DISCHG	5498.94	5628.56	5731.32	5883.5[illegible]	6110.47	6378.42	6686.04	7015.88	7335.51	[illegible]5.04
14.00	DISCHG	7865.62	8079.25	8256.64	8395.3[illegible]	8495.41	8564.78	8607.93	8609.24	8566.28	[illegible]95.94
15.00	DISCHG	8387.32	8245.21	8084.85	7916.63	7736.68	7548.80	7367.85	7184.43	6999.54	6820.17
16.00	DISCHG	6647.60	6476.26	6306.67	6149.62	5994.06	5839.93	5692.43	5550.53	5410.35	5272.64
17.00	DISCHG	5141.70	5013.37	4887.91	4766.85	4649.77	4536.07	4426.46	4323.33	4224.01	4128.59
18.00	DISCHG	4039.46	3954.89	3873.37	3794.95	3720.45	3647.00	3574.17	3503.54	3433.92	3365.14
19.00	DISCHG	3297.60	3231.67	3167.53	3105.26	3045.18	2986.88	2930.19	2876.08	2825.08	2775.56
20.00	DISCHG	2727.45	2682.28	2638.17	2594.64	2551.55	2508.65	2465.42	2421.90	2378.48	2335.44
21.00	DISCHG	2293.21	2252.47	2213.45	2176.02	2140.27	2107.25	2075.31	2044.12	2014.78	1987.48
22.00	DISCHG	1962.51	1940.85	1923.79	1908.98	1895.67	1883.11	1870.93	1858.93	1846.69	1833.47
23.00	DISCHG	1820.20	1806.88	1793.93	1781.11	1768.35	1755.98	1744.36	1732.84	1721.37	1709.78
24.00	DISCHG	1698.09	1686.25	1673.46	1659.21	1644.71	1629.96	1614.47	1598.85	1583.25	1567.54
25.00	DISCHG	1553.03	1538.33	1523.81	1509.89	1495.92	1481.73	1468.03	1454.69	1441.01	1426.97
26.00	DISCHG	1411.74	1396.39	1381.01	1363.18	1343.75	1324.34	1304.26	1279.93	1255.61	1231.31
27.00	DISCHG	1205.52	1179.05	1152.61	1126.53	1101.68	1076.78	1051.73	1029.20	1007.18	984.60
28.00	DISCHG	962.57	942.86	922.42	901.30	882.15	863.10	843.76	824.92	807.25	789.63
29.00	DISCHG	772.11	755.89	739.98	724.28	709.16	694.75	680.56	666.59	653.41	640.46
30.00	DISCHG	627.73	615.41	603.48	591.77	580.27	569.19	558.30	547.61	537.20	527.04
31.00	DISCHG	517.07	507.28	497.77	488.43	479.26	470.30	461.53	452.91	444.46	436.05

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.0574 CFS-HRS= 66497.21 ACRE-FT= 5495.33

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.91	5536.172	(RUNOFF)
21.63	484.060	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5586 CFS-HRS= 30489.54 ACRE-FT= 2519.66

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.81	11896.944	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5579 CFS-HRS= 72406.24 ACRE-FT= 5983.65

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.78	17365.204	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5580 CFS-HRS= 102894.64 ACRE-FT= 8503.21

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.54	6576.219	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.2950 CFS-HRS= 38383.25 ACRE-FT= 3171.99

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.77	23930.061	(NULL)

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10			DRAINAGE AREA= 25.80		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.05	.10	.15
3.00	DISCHG	.38	1.18	2.09	2.99	5.15	9.09	13.24	17.75	27.52	38.85
4.00	DISCHG	51.02	66.47	88.29	110.84	136.54	165.52	198.64	234.44	271.69	312.49
5.00	DISCHG	356.85	402.55	448.88	498.30	548.78	599.54	650.21	700.47	750.48	800.17
6.00	DISCHG	850.51	901.27	952.30	1005.16	1065.91	1131.32	1205.79	1282.96	1388.16	1510.73
7.00	DISCHG	1638.33	1781.86	1968.65	2161.81	2361.46	2603.53	2865.89	3132.61	3419.01	3765.75
8.00	DISCHG	4122.58	4524.29	4961.92	5506.46	6121.60	6778.79	7525.87	8444.65	9439.46	10478.24
9.00	DISCHG	11636.41	12869.99	14129.21	15378.73	16556.28	17716.22	18815.57	19781.36	20610.98	21371.75
10.00	DISCHG	22020.21	22543.40	22954.92	23286.52	23595.41	23754.86	23825.87	23885.64	23921.33	23771.98
11.00	DISCHG	23615.53	23449.71	23148.97	22744.08	22317.24	21824.71	21232.39	20586.89	19912.10	19220.61
12.00	DISCHG	18483.40	17752.76	17031.91	16324.77	15660.50	15024.99	14404.15	13834.81	13315.08	12808.08
13.00	DISCHG	12320.48	11890.67	11476.84	11073.59	10688.49	10340.59	9998.54	9669.77	9355.35	9066.21
14.00	DISCHG	8792.91	8523.25	8277.31	8059.04	7844.45	7633.25	7458.20	7288.79	7122.80	6967.41
15.00	DISCHG	6827.85	6690.10	6553.23	6419.37	6287.88	6156.46	6023.79	5896.70	5774.00	5653.58
16.00	DISCHG	5535.08	5429.81	5328.45	5228.92	5135.13	5049.53	4964.52	4880.23	4800.03	4722.65
17.00	DISCHG	4645.50	4567.52	4490.17	4412.07	4332.98	4252.79	4174.43	4098.48	4022.80	3951.02
18.00	DISCHG	3887.12	3825.51	3766.19	3711.66	3659.43	3607.85	3555.98	3505.34	3453.61	3400.50
19.00	DISCHG	3346.45	3292.65	3239.33	3186.67	3136.22	3089.17	3044.02	2999.82	2961.40	2925.54
20.00	DISCHG	2889.98	2856.27	2828.23	2801.12	2775.07	2750.07	2726.36	2702.38	2676.32	2648.13
21.00	DISCHG	2617.80	2585.44	2551.42	2517.32	2483.99	2450.37	2417.55	2389.00	2362.51	2338.35
22.00	DISCHG	2314.26	2290.03	2267.65	2240.96	2209.87	2173.35	2134.84	2094.14	2052.31	2010.68
23.00	DISCHG	1975.02	1930.97	1894.75	1860.46	1827.03	1796.16	1767.07	1738.06	1709.07	1680.44
24.00	DISCHG	1652.19	1623.02	1589.89	1551.00	1510.20	1463.43	1409.95	1347.78	1277.12	1202.89
25.00	DISCHG	1128.26	1052.67	943.17	853.01	769.19	686.99	607.08	537.27	476.08	417.73
26.00	DISCHG	366.19	323.26	285.59	251.52	219.42	194.80	173.07	152.69	133.52	119.31
27.00	DISCHG	106.08	93.12	82.11	73.45	64.93	56.78	50.58	45.03	39.66	34.62
28.00	DISCHG	30.96	27.39	24.08	21.05	18.72	16.59	14.47	12.71	11.33	9.84
29.00	DISCHG	8.56	7.97	6.63	5.70	4.86	4.26	3.66	3.10	2.62	2.24

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4949 CFS-HRS= 141277.37 ACRE-FT= 11675.20

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.95	23880.644	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4848 CFS-HRS= 141276.97 ACRE-FT= 11675.13

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.35	5540.776	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.1620 CFS-HRS= 31183.74 ACRE-FT= 2577.02

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.84	29183.099	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4246 CFS-HRS= 172460.72 ACRE-FT= 14252.15

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.12	29146.884	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.02	.06	.12	.30	.70	1.36	2.40	4.14	7.10
4.00	DISCHG	11.23	16.86	25.22	36.30	50.43	67.99	89.71	115.58	145.07	178.76
5.00	DISCHG	216.56	258.20	303.23	351.50	403.10	457.37	513.63	571.79	631.46	691.89
6.00	DISCHG	752.63	813.10	873.17	933.51	994.69	1057.04	1122.63	1191.84	1268.88	1355.38
7.00	DISCHG	1451.83	1561.84	1688.68	1837.21	2004.64	2192.18	2404.99	2639.74	2897.06	3179.88
8.00	DISCHG	3490.09	3824.04	4186.37	4596.86	5051.85	5573.00	6167.46	6853.72	7651.00	8542.31
9.00	DISCHG	9539.60	10655.78	11871.87	13166.62	14537.93	15959.04	17415.66	18858.64	20254.69	21594.46
10.00	DISCHG	22851.64	24007.41	25035.98	25942.89	26730.79	27393.56	27936.95	28371.09	28714.23	28953.55
11.00	DISCHG	29089.35	29145.75	29117.12	28993.35	28777.88	28486.14	28108.36	27634.40	27080.43	26454.88
12.00	DISCHG	25755.65	24994.64	24190.62	23354.84	22501.86	21640.07	20785.21	19948.91	19140.71	18367.64
13.00	DISCHG	17627.70	16928.41	16271.87	15651.56	15064.61	14513.54	13996.73	13506.35	13040.90	12601.83
14.00	DISCHG	12185.28	11789.37	11412.30	11057.16	10722.58	10405.77	10109.54	9834.42	9577.48	9335.81
15.00	DISCHG	9111.06	8901.15	8702.03	8511.43	8329.97	8156.28	7987.84	7823.47	7663.17	7505.44
16.00	DISCHG	7350.54	7199.18	7052.15	6909.60	6771.70	6640.79	6516.64	6397.97	6284.67	6176.74
17.00	DISCHG	6072.39	5970.50	5870.19	5771.32	5673.62	5576.48	5479.57	5383.91	5288.94	5194.91
18.00	DISCHG	5102.82	5012.87	4925.65	4841.87	4762.23	4686.49	4613.98	4544.35	4476.51	4410.45
19.00	DISCHG	4345.18	4280.71	4216.80	4152.75	4088.86	4025.19	3962.12	3900.09	3839.76	3782.20
20.00	DISCHG	3727.31	3675.68	3627.96	3583.89	3542.76	3504.27	3468.18	3434.21	3401.25	3368.49
21.00	DISCHG	3335.99	3302.77	3268.23	3232.27	3194.70	3155.88	3117.15	3078.67	3041.47	3005.55

22.00	DISCHG	2970.28	2935.74	2902.61	2868.9[illegible]	2834.63	2800.04	2764.81	2728.03	2688.92	[illegible].82
[illegible]	DISCHG	2662.27	2555.75	2507.90	2459.[illegible]	2412.17	2365.83	2321.37	2278.96	2238.49	[illegible].97
[illegible].00	DISCHG	2163.30	2127.90	2092.49	2056.[illegible]	2019.64	1979.64	1935.91	1885.42	1828.25	..64.60
25.00	DISCHG	1693.52	1614.58	1528.87	1437.01	1340.13	1239.34	1135.86	1033.22	933.21	837.35
26.00	DISCHG	746.37	661.90	585.27	515.61	453.19	398.17	350.04	307.64	269.98	237.33
27.00	DISCHG	209.13	184.33	162.31	143.17	126.52	111.66	98.50	87.05	76.91	67.83
28.00	DISCHG	59.85	52.89	46.69	41.10	36.23	31.97	28.16	24.75	21.79	19.21
29.00	DISCHG	16.91	14.88	13.11	11.55	10.12	8.87	7.76	6.76	5.85	4.94

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4245 CFS-HRS= 172459.70 ACRE-FT= 14252.07

SUBROUTINE SAVMOV CROSS SECTION 100
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.30	34888.880	1593.39

TIME		HYDROGRAPH, IZERO= .00				DELTA T= .10			DRAINAGE AREA= 46.32		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.02	.06	.12	.30	.70	1.36	2.40	4.14	7.24
4.00	DISCHG	11.53	17.33	26.17	38.09	53.10	71.57	95.68	124.01	156.03	193.39
5.00	DISCHG	235.92	282.37	332.41	387.67	446.37	507.85	572.19	639.07	707.60	777.24
6.00	DISCHG	848.61	920.14	991.82	1066.42	1143.43	1222.06	1305.84	1399.39	1501.32	1613.26
7.00	DISCHG	1743.37	1889.96	2053.05	2240.37	2454.34	2687.05	2943.94	3233.66	3548.12	3887.84
8.00	DISCHG	4266.96	4691.89	5145.20	5646.69	6246.78	6919.65	7665.86	8534.08	9553.61	10667.19
9.00	DISCHG	11886.78	13249.84	14713.69	16256.22	17862.22	19505.08	21183.50	22845.99	24404.91	25907.64
10.00	DISCHG	27327.90	28608.89	29734.95	30739.34	31620.96	32340.69	32965.41	33513.02	33966.40	34321.56
11.00	DISCHG	34588.29	34774.31	34848.44	34876.86	34888.34	34864.57	34794.40	34650.27	34415.93	34070.91
12.00	DISCHG	33621.27	33073.89	32447.25	31749.97	30997.27	30204.85	29393.14	28558.15	27706.99	26863.58
13.00	DISCHG	26015.02	25173.62	24356.73	23568.19	22801.49	22062.34	21364.58	20690.78	20040.44	19422.01
14.00	DISCHG	18832.87	18265.63	17718.93	17206.78	16716.64	16245.70	15801.97	15384.95	14987.83	14608.45
15.00	DISCHG	14252.75	13914.51	13589.94	13278.28	12979.73	12692.55	12414.30	12146.80	11887.17	11634.03
16.00	DISCHG	11390.00	11154.07	10925.51	10704.54	10492.16	10287.79	10090.81	9901.50	9718.60	9541.88
17.00	DISCHG	9369.98	9202.18	9037.72	8876.59	8718.79	8563.36	8409.75	8259.98	8114.02	7970.47
18.00	DISCHG	7830.28	7695.16	7563.84	7436.50	7313.78	7195.14	7079.40	6965.95	6854.99	6745.89
19.00	DISCHG	6638.39	6533.18	6430.25	6328.77	6229.14	6132.44	6037.43	5944.21	5854.54	5769.68
20.00	DISCHG	5689.81	5616.53	5551.75	5492.87	5438.43	5387.38	5339.11	5293.14	5247.93	5201.96
21.00	DISCHG	5156.19	5109.65	5062.16	5013.38	4963.06	4911.85	4861.51	4811.50	4762.84	4715.33
22.00	DISCHG	4668.37	4621.99	4576.07	4528.12	4479.33	4430.00	4379.28	4326.87	4272.17	4214.76
23.00	DISCHG	4155.23	4094.08	4031.71	3969.72	3908.09	3847.56	3789.41	3733.66	3679.50	3626.94
24.00	DISCHG	3575.03	3524.29	3473.49	3419.75	3363.39	3303.98	3240.17	3165.36	3083.87	2995.91
25.00	DISCHG	2899.04	2793.62	2681.48	2563.55	2441.81	2316.12	2187.60	2062.41	1940.38	1821.55
26.00	DISCHG	1708.94	1604.76	1507.69	1416.91	1335.33	1261.27	1193.80	1132.57	1077.25	1026.95
27.00	DISCHG	981.25	940.21	902.29	867.45	835.68	806.41	779.06	753.64	730.32	708.29
28.00	DISCHG	687.57	668.30	650.17	632.87	616.50	601.16	586.46	572.37	559.00	546.26
29.00	DISCHG	533.98	522.16	510.89	499.98	489.39	479.17	469.29	459.67	450.31	440.99

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.9936 CFS-HRS= 238956.89 ACRE-FT= 19747.40

SUBROUTINE SVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.41	22750.104	1590.69

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.01	.03	.05
4.00	DISCHG	.08	.13	.21	.33	.50	.73	1.04	1.44	1.95	2.59
5.00	DISCHG	3.38	4.32	5.45	6.76	8.28	10.01	11.97	14.17	16.61	19.30
6.00	DISCHG	22.24	25.43	28.87	32.58	36.55	40.79	45.32	50.16	55.34	60.90
7.00	DISCHG	66.89	73.37	80.40	88.04	92.43	93.33	94.31	95.39	96.58	97.89
8.00	DISCHG	99.33	100.92	102.66	104.57	106.51	108.25	110.18	112.32	114.72	117.40
9.00	DISCHG	119.95	122.21	124.73	127.52	130.52	133.46	136.65	140.11	142.90	145.56
10.00	DISCHG	148.37	151.16	153.86	156.65	159.55	162.55	232.91	574.16	1463.47	2542.63
11.00	DISCHG	3596.43	4693.29	6043.37	7335.23	8570.08	9749.30	10873.55	12236.53	13578.16	14821.63
12.00	DISCHG	15966.37	17012.24	17959.85	18810.60	19566.55	20230.52	20806.27	21297.84	21709.10	22044.63
13.00	DISCHG	22309.07	22506.75	22642.64	22722.06	22749.90	22730.77	22669.55	22570.76	22438.07	22275.19
14.00	DISCHG	22085.79	21872.99	21639.48	21388.16	21121.81	20842.57	20552.62	20254.22	19949.27	19639.32
15.00	DISCHG	19325.90	19010.46	18694.06	18377.56	18061.74	17747.30	17434.77	17124.63	16817.29	16513.02
16.00	DISCHG	16212.10	15914.84	15621.50	15332.29	15047.43	14767.19	14491.72	14221.22	13955.79	13695.51
17.00	DISCHG	13440.41	13190.43	12945.50	12705.51	12470.37	12239.95	12014.10	11792.72	11575.75	11363.13
18.00	DISCHG	11154.77	10984.67	10834.27	10684.82	10536.45	10389.33	10243.56	10099.18	9956.24	9814.78
19.00	DISCHG	9674.80	9536.33	9399.40	9264.03	9130.22	8998.01	8867.43	8738.48	8611.21	8485.74
20.00	DISCHG	8362.20	8240.76	8121.68	8005.16	7891.32	7780.22	7671.88	7566.28	7463.37	7363.03
21.00	DISCHG	7265.13	7169.55	7076.15	6984.77	6895.28	6807.51	6721.41	6636.92	6554.00	6472.64
22.00	DISCHG	6392.82	6314.48	6237.58	6162.03	6087.69	6014.49	5942.32	5871.08	5800.64	5730.83
23.00	DISCHG	5661.54	5592.65	5524.08	5455.79	5387.79	5320.11	5252.79	5185.95	5119.63	5053.90
24.00	DISCHG	4988.77	4924.26	4860.36	4796.99	4733.99	4671.22	4608.50	4545.49	4481.80	4419.49
25.00	DISCHG	4370.88	4320.54	4268.26	4213.92	4157.41	4098.68	4037.70	3974.54	3909.38	3842.41
26.00	DISCHG	3773.82	3703.91	3632.99	3561.31	3489.15	3416.81	3344.51	3272.48	3200.91	3129.95
27.00	DISCHG	3059.75	2990.44	2922.11	2854.83	2788.68	2723.71	2659.94	2597.41	2536.15	2476.15
28.00	DISCHG	2417.43	2359.99	2303.83	2248.93	2195.30	2142.91	2091.76	2041.82	1993.07	1945.51
29.00	DISCHG	1899.10	1853.82	1809.66	1766.60	1724.59	1683.64	1643.70	1604.76	1566.79	1529.77

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.1166 CFS-HRS= 182846.96 ACRE-FT= 15110.47

ENDCMP

EXECUT[redacted] CONTROL CARD 149 OPERATION INCREM, MAI[redacted]ME INCREMENT= .10 PASS= 11
EXECU[redacted] CONTROL CARD 150 OPERATION COMPUT. FRO[redacted]XSECTN/STRUCT 2/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 2.46 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 1 STORM NO.=10

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES 13.24 PEAK DISCHARGES 594.460 PEAK ELEVATIONS (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6261 CFS-HRS= 2372.05 ACRE-FT= 196.03

SUPROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5.6 OUTPUT HYDROGRAPH= 1

PEAK TIMES 13.24 PEAK DISCHARGES 594.460 PEAK ELEVATIONS (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 5.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11.00	DISCHG	.00	.00	.00	.01	.01	4.72	11.21	17.71	29.87	57.96
12.00	DISCHG	86.05	114.14	162.13	215.10	268.06	322.10	378.25	434.40	490.55	521.81
13.00	DISCHG	549.49	577.18	592.93	591.62	590.31	589.00	569.40	548.81	528.21	504.50
14.00	DISCHG	477.49	450.48	423.60	402.82	382.04	361.26	343.28	327.51	311.73	296.28
15.00	DISCHG	283.77	271.27	258.77	248.06	238.37	228.69	219.37	211.79	204.20	196.62
16.00	DISCHG	190.13	184.09	178.04	172.26	167.26	162.26	157.26	153.01	148.97	144.92
17.00	DISCHG	141.18	138.06	134.94	131.82	129.31	126.90	124.48	122.21	120.15	118.09
18.00	DISCHG	116.03	114.03	112.03	110.04	108.09	106.17	104.26	102.35	100.69	99.04
19.00	DISCHG	97.39	95.90	94.55	93.21	91.89	90.84	89.80	88.75	87.82	86.96
20.00	DISCHG	86.09	85.24	84.44	83.63	82.83	82.01	81.18	80.35	79.52	78.68
21.00	DISCHG	77.84	77.00	76.21	75.44	74.67	73.96	73.38	72.81	72.24	71.80
22.00	DISCHG	71.39	70.98	70.56	70.13	69.70	69.26	68.77	68.28	67.78	67.25
23.00	DISCHG	66.66	66.07	65.48	64.86	64.25	63.63	63.10	62.66	62.22	61.76
24.00	DISCHG	61.11	60.45	59.80	58.65	57.16	55.67	54.03	51.46	48.88	46.31
25.00	DISCHG	43.33	40.17	37.01	33.88	30.90	27.91	24.92	22.41	20.06	17.72
26.00	DISCHG	15.59	14.01	12.43	10.85	9.72	8.70	7.69	6.78	6.09	5.41
27.00	DISCHG	4.72	4.24	3.78	3.32	2.93	2.62	2.32	2.01	1.81	1.61
28.00	DISCHG	1.41	1.24	1.11	.97	.84	.75	.66	.57	.50	.44
29.00	DISCHG	.38	.33	.29	.25	.21	.18	.15	.12	.10	.08

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6261 CFS-HRS= 2372.05 ACRE-FT= 196.03

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 81.0 OF CONCENTRATION= 1.10

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.63	1311.042	(RUNOFF)
21.79	80.414	(RUNOFF)
23.79	69.002	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9122 CFS-HRS= 3249.66 ACRE-FT= 269.55

SUBROUTINE REACH CROSS SECTION 134
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.39	2035.540	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9120 CFS-HRS= 7715.84 ACRE-FT= 637.64

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.29	3264.152	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9120 CFS-HRS= 10965.55 ACRE-FT= 906.19

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.03	1093.133	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8691 CFS-HRS= 3744.03 ACRE-FT= 309.41

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.25	4331.514	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.02	.06	.10	.13	.52	.98	1.45	2.12	4.42
11.00	DISCHG	6.81	9.36	15.18	24.54	34.37	56.41	113.83	187.30	295.71	417.54
12.00	DISCHG	619.11	865.57	1146.21	1466.13	1863.05	2297.51	2760.62	3185.87	3540.26	3977.96
13.00	DISCHG	4156.07	4273.92	4325.91	4323.36	4253.41	4087.20	3903.90	3706.76	3496.66	3267.14
14.00	DISCHG	3058.97	2859.05	2673.48	2507.78	2349.36	2194.36	2071.89	1955.51	1842.80	1741.91
15.00	DISCHG	1655.95	1572.36	1494.48	1424.60	1362.06	1303.55	1247.26	1197.86	1152.54	1108.62
16.00	DISCHG	1065.37	1029.14	993.89	959.24	927.00	898.91	871.12	844.07	820.17	797.91
17.00	DISCHG	776.23	755.63	736.04	721.31	705.51	690.39	677.51	665.23	653.10	641.56
18.00	DISCHG	631.16	620.70	610.17	599.77	589.39	578.93	568.45	558.16	547.83	537.71
19.00	DISCHG	527.96	519.16	510.72	502.55	495.20	488.79	482.73	476.88	471.92	467.31
20.00	DISCHG	462.82	458.40	454.20	449.94	445.56	441.04	436.42	431.72	426.95	422.22
21.00	DISCHG	417.53	412.92	408.32	403.94	399.78	395.59	391.51	388.27	385.18	382.28
22.00	DISCHG	379.88	377.86	375.99	374.10	372.07	369.90	367.47	364.84	361.95	358.85
23.00	DISCHG	355.63	352.34	348.95	345.52	342.01	338.68	335.53	332.43	329.47	326.60
24.00	DISCHG	323.95	321.22	317.63	312.67	307.23	300.26	291.53	280.53	267.34	253.23
25.00	DISCHG	236.77	218.83	200.39	181.74	163.97	146.53	129.59	114.72	101.60	89.16
26.00	DISCHG	79.14	69.96	60.91	53.63	46.78	41.54	36.91	32.58	28.50	25.48
27.00	DISCHG	22.67	19.92	17.58	15.73	13.91	12.17	10.85	9.66	8.52	7.44
28.00	DISCHG	6.67	5.91	5.20	4.56	4.06	3.60	3.15	2.78	2.48	2.17
29.00	DISCHG	1.87	1.66	1.46	1.26	1.07	.94	.81	.69	.59	.51

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8834 CFS-HRS= 14709.57 ACRE-FT= 1215.60

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.46	4305.677	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8835 CFS-HRS= 14711.52 ACRE-FT= 1215.76

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.82	1002.348	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7605 CFS-HRS= 2905.71 ACRE-FT= 240.13

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.36	5031.511	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .860 CFS-HRS= 17617.23 ACRE-FT= 1455.

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5550.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.67	4989.940	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.03	.06	.13	.31
11.00	DISCHG	.61	1.03	1.76	3.08	5.19	8.23	13.88	24.04	38.83	74.77
12.00	DISCHG	137.59	239.12	387.38	580.23	835.75	1152.30	1511.32	1908.11	2341.67	2793.17
13.00	DISCHG	3257.23	3695.23	4088.14	4430.21	4702.43	4883.82	4974.25	4985.56	4927.15	4802.37
14.00	DISCHG	4627.28	4420.04	4191.57	3951.19	3709.74	3475.11	3253.39	3046.50	2854.29	2675.00
15.00	DISCHG	2514.21	2368.14	2233.99	2111.57	2000.66	1899.49	1806.41	1720.94	1642.99	1571.30
16.00	DISCHG	1504.94	1443.75	1387.31	1334.48	1284.60	1238.23	1194.92	1154.37	1115.71	1080.08
17.00	DISCHG	1046.93	1015.77	986.82	960.00	934.86	911.36	889.66	869.63	850.93	833.41
18.00	DISCHG	817.14	801.98	787.54	773.71	760.51	747.73	735.17	722.74	710.36	698.04
19.00	DISCHG	685.79	673.65	661.72	650.00	638.74	628.10	618.09	608.70	599.96	591.96
20.00	DISCHG	584.59	577.70	571.29	565.31	559.61	554.09	548.72	543.43	538.13	532.77
21.00	DISCHG	527.31	521.73	516.06	510.36	504.69	499.09	493.69	488.51	483.64	479.04
22.00	DISCHG	474.69	470.70	467.06	463.65	460.51	457.64	454.98	452.42	449.80	447.05
23.00	DISCHG	444.08	440.86	437.38	433.65	429.72	425.74	421.73	417.77	413.92	410.20
24.00	DISCHG	406.67	403.29	399.88	396.30	392.56	388.17	382.98	376.23	367.91	357.99
25.00	DISCHG	346.19	332.37	316.71	299.38	280.57	260.52	239.58	218.55	197.82	177.78
26.00	DISCHG	158.64	140.80	124.56	109.77	96.48	84.76	74.51	65.48	57.46	50.51
27.00	DISCHG	44.52	39.25	34.58	30.52	26.99	23.84	21.04	18.61	16.46	14.52
28.00	DISCHG	12.82	11.34	10.01	8.82	7.79	6.88	6.07	5.35	4.72	4.16
29.00	DISCHG	3.67	3.24	2.86	2.52	2.21	1.94	1.70	1.48	1.29	1.09

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8606 CFS-HRS= 17617.56 ACRE-FT= 1455.92

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.64	5549.561	1586.44

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME

	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.03	.06	.13	.31
11.00	DISCHG	.61	1.03	1.76	3.09	5.20	12.95	25.10	41.75	68.70	132.73
12.00	DISCHG	284.65	353.26	549.48	795.33	1103.82	1474.40	1889.57	2342.51	2832.22	3314.58
13.00	DISCHG	3806.72	4272.41	4681.07	5021.83	5292.74	5472.82	5543.65	5534.37	5455.37	5307.48
14.00	DISCHG	5104.77	4870.51	4615.18	4354.02	4091.78	3836.37	3596.67	3374.01	3166.03	2972.18
15.00	DISCHG	2787.96	2634.41	2492.76	2359.63	2239.04	2128.19	2025.78	1932.72	1847.20	1767.52
16.00	DISCHG	1695.07	1627.84	1565.35	1506.74	1451.86	1400.48	1352.18	1307.08	1264.68	1225.00
17.00	DISCHG	1188.11	1153.83	1121.76	1091.82	1064.17	1038.26	1014.15	991.84	971.08	951.49
18.00	DISCHG	933.17	916.30	899.57	883.75	868.58	853.90	839.43	825.08	811.05	797.08
19.00	DISCHG	783.17	769.55	756.27	743.20	730.63	718.54	707.89	697.45	687.78	678.92
20.00	DISCHG	670.69	662.94	655.73	648.95	642.44	636.10	629.91	623.79	617.66	611.45
21.00	DISCHG	605.15	598.73	592.27	585.80	579.35	573.05	567.08	561.32	555.88	550.85
22.00	DISCHG	546.08	541.68	537.62	533.78	530.20	526.91	523.76	520.70	517.58	514.30
23.00	DISCHG	510.74	506.93	502.96	498.51	493.97	489.37	484.84	480.43	476.14	471.96
24.00	DISCHG	467.78	463.75	459.65	454.95	449.72	443.84	437.01	427.69	416.79	404.50
25.00	DISCHG	389.53	372.54	353.72	333.26	311.46	288.42	264.50	240.96	217.89	195.49
26.00	DISCHG	174.23	154.91	136.99	120.61	106.21	93.47	82.19	72.26	63.55	55.92
27.00	DISCHG	49.24	43.49	38.36	33.84	29.92	26.46	23.36	20.63	18.27	16.13
28.00	DISCHG	14.23	12.58	11.12	9.80	8.63	7.63	6.73	5.92	5.22	4.61
29.00	DISCHG	4.06	3.56	3.15	2.77	2.42	2.12	1.85	1.61	1.39	1.17

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8240 CFS-HRS= 19989.61 ACRE-FT= 1651.94

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
26.22	131.556	1576.38

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11.00	DISCHG	.00	.01	.01	.02	.04	.07	.14	.26	.47	.84
12.00	DISCHG	1.49	2.56	4.22	6.69	10.18	14.92	21.09	28.84	38.32	49.55
13.00	DISCHG	62.55	77.27	92.15	93.87	95.70	97.61	99.57	101.54	103.49	105.39
14.00	DISCHG	106.92	108.23	109.48	110.65	111.76	112.79	113.76	114.66	115.51	116.30
15.00	DISCHG	117.05	117.75	118.40	119.02	119.41	119.79	120.14	120.48	120.80	121.11

16.00	DISCHG	121.40	121.48	121.[illegible]	122.21	122.45	122.69	122.92	123.14	123.35	[illegible].55
17.00	DISCHG	123.75	123.94	124.13	124.3[illegible]	124.48	124.65	124.81	124.97	125.13	[illegible].28
18.00	DISCHG	125.43	125.57	125.71	125.8[illegible]	125.99	126.12	126.25	126.38	126.51	6.63
19.00	DISCHG	126.75	126.87	126.99	127.10	127.21	127.32	127.42	127.53	127.63	7.73
20.00	DISCHG	127.83	127.93	128.03	128.12	128.22	128.31	128.40	128.49	128.58	128.67
21.00	DISCHG	128.76	128.84	128.93	129.01	129.09	129.17	129.25	129.33	129.41	129.49
22.00	DISCHG	129.57	129.64	129.72	129.79	129.86	129.93	130.01	130.07	130.13	130.19
23.00	DISCHG	130.25	130.31	130.37	130.43	130.49	130.54	130.60	130.66	130.71	130.76
24.00	DISCHG	130.82	130.87	130.92	130.97	131.03	131.08	131.12	131.17	131.22	131.26
25.00	DISCHG	131.30	131.34	131.38	131.41	131.44	131.47	131.49	131.51	131.53	131.54
26.00	DISCHG	131.55	131.55	131.56	131.56	131.55	131.55	131.54	131.53	131.52	131.51
27.00	DISCHG	131.50	131.48	131.47	131.46	131.44	131.42	131.41	131.39	131.37	131.35
28.00	DISCHG	131.34	131.32	131.30	131.28	131.26	131.24	131.22	131.20	131.18	131.16
29.00	DISCHG	131.14	131.12	131.10	131.08	131.06	131.04	131.02	131.00	130.98	130.96

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0883 CFS-HRS= 2141.56 ACRE-FT= 176.98

ENDCMP

EXEC[redacted]E CONTROL CARD 1ST OPERATION COMPUT. F[redacted] XSECTN/STRUCT 2/ 0 TO XSECTN/STRUCT 0/ 1 PASS= 12
STARTING TIME= .00 RAIN DEPTH= 3.00 RAI[redacted]URATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDI[redacted]N= 2
ALTERNATE NO.= 1 STORM NO.=11

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.22	973.198	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3590 CFS-HRS= 3633.00 ACRE-FT= 300.23

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,4 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.22	973.198	(NULL)

HYDROGRAPH, IZERO= .00 DELTA T= .10 DRAINAGE AREA= 5.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.06	.16
11.00	DISCHG	.26	.48	1.24	1.99	2.75	13.36	27.68	42.00	66.04	117.35
12.00	DISCHG	168.66	219.96	302.04	391.81	481.59	570.65	658.31	745.97	833.63	877.02
13.00	DISCHG	915.98	954.03	972.76	963.84	954.91	945.99	908.92	870.33	831.73	789.75
14.00	DISCHG	744.18	698.61	653.30	619.11	584.92	550.74	521.32	495.64	469.97	444.84
15.00	DISCHG	424.79	404.74	384.70	367.63	352.26	336.92	322.17	310.31	298.46	286.60
16.00	DISCHG	276.54	267.21	257.88	248.97	241.34	233.70	226.07	219.63	213.51	207.39
17.00	DISCHG	201.73	197.04	192.35	187.66	183.88	180.26	176.63	173.22	170.13	167.03
18.00	DISCHG	163.94	160.96	157.9[illegible]	155.01	152.12	149.34	146.55	143.77	141.39	139.01
19.00	DISCHG	136.63	134.49	132.56	130.63	128.73	127.22	125.71	124.21	122.86	121.62
20.00	DISCHG	120.37	119.14	117.9[illegible]	116.83	115.67	114.49	113.31	112.12	110.93	109.73
21.00	DISCHG	108.53	107.33	106.21	105.11	104.00	102.99	102.17	101.35	100.53	99.89
22.00	DISCHG	[illegible]6.30	99.70	99.10	97.47	96.85	96.23	95.54	94.83	94.12	93.36
23.00	DISCHG	92.52	91.68	90.85	89.98	89.11	88.24	87.49	86.86	86.23	85.58
24.00	DISCHG	84.66	83.74	82.8[illegible]	81.21	79.14	77.07	74.90	73.23	67.66	64.08
25.00	DISCHG	59.97	55.59	51.21	46.88	42.75	38.61	34.48	31.01	27.76	24.51
26.00	DISCHG	21.56	19.38	17.19	15.01	13.45	12.04	10.62	9.38	8.43	7.48
27.00	DISCHG	6.53	5.86	5.23	4.59	4.05	3.63	3.21	2.79	2.50	2.23
28.00	DISCHG	1.95	1.72	1.5[illegible]	1.35	1.17	1.04	.92	.79	.69	.61
29.00	DISCHG	.53	.45	.4[illegible]	.34	.2[illegible]	.25	.21	.17	.14	.11

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3590 CFS-HRS= 3633.00 ACRE-FT= 300.23

SUBROUTINE RUNOFF CROSS SECTION 5

AREA= 5.52 INPUT RUNOFF CURVE= 81.0 OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	1942.248	(RUNOFF)
21.79	106.957	(RUNOFF)
23.78	81.548	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3109 CFS-HRS= 4670.07 ACRE-FT= 385.93

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.37	3006.261	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3106 CFS-HRS= 11088.39 ACRE-FT= 916.34

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.25	4832.293	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3107 CFS-HRS= 15758.52 ACRE-FT= 1302.28

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.01	1673.178	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1861 CFS-HRS= 5488.25 ACRE-FT= 453.55

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.20	6459.396	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.10	.21	.31	.54	1.11	1.72
10.00	DISCHG	2.41	3.84	5.96	8.51	11.28	16.28	22.79	29.67	37.39	50.64
11.00	DISCHG	64.35	78.56	99.67	127.05	155.19	203.79	305.86	431.88	610.83	810.17
12.00	DISCHG	1124.90	1505.28	1936.25	2423.90	3013.98	3654.18	4333.83	4938.41	5441.30	5908.34
13.00	DISCHG	6284.20	6420.40	6459.38	6419.45	6282.98	6009.87	5715.07	5405.12	5079.35	4729.29
14.00	DISCHG	4413.44	4110.26	3831.46	3584.85	3347.62	3118.50	2937.80	2766.22	2600.07	2451.75
15.00	DISCHG	2325.80	2203.32	2089.43	1987.52	1896.54	1811.57	1729.87	1658.41	1593.01	1529.69
16.00	DISCHG	1467.36	1415.52	1365.31	1315.71	1269.79	1230.00	1190.62	1152.32	1118.58	1087.19
17.00	DISCHG	1056.60	1027.55	1002.78	979.21	956.94	935.63	917.49	900.26	883.23	867.05
18.00	DISCHG	852.55	837.98	823.30	808.87	794.47	779.97	765.47	751.28	737.04	723.09
19.00	DISCHG	709.71	697.66	686.13	674.97	664.92	656.15	647.87	639.86	633.05	626.73
20.00	DISCHG	620.57	614.51	608.76	602.93	596.93	590.76	584.46	578.05	571.55	565.11
21.00	DISCHG	558.75	552.47	546.22	540.27	534.62	528.92	523.39	518.97	514.75	510.81
22.00	DISCHG	507.51	504.74	502.16	499.55	496.76	493.80	490.48	486.90	482.98	478.77
23.00	DISCHG	474.41	469.85	465.37	460.73	455.98	451.48	447.24	443.05	439.04	435.17
24.00	DISCHG	431.59	427.89	423.05	416.40	409.10	399.77	388.09	373.40	355.80	336.58
25.00	DISCHG	315.05	291.15	266.62	241.76	218.12	194.91	172.36	152.58	135.16	118.58
26.00	DISCHG	103.92	91.71	81.01	71.32	62.21	55.24	49.09	43.32	37.90	33.99
27.00	DISCHG	30.14	26.48	23.37	20.91	18.50	16.18	14.42	12.84	11.32	9.89
28.00	DISCHG	8.86	7.85	6.92	6.06	5.40	4.79	4.19	3.69	3.29	2.99
29.00	DISCHG	2.49	2.20	1.93	1.67	1.42	1.25	1.08	.92	.78	.67

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2760 CFS-HRS= 21246.77 ACRE-FT= 1755.83

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.42	6419.515	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2762 CFS-HRS= 21249.59 ACRE-FT= 1756.07

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.80	1553.962	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1265 CFS-HRS= 4303.94 ACRE-FT= 355.68

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.32	7544.168	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.24[illegible] CFS-HRS= 25553.53 ACRE-FT= 2111.[illegible]

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES 13.63 PEAK DISCHARGES 7477.404 PEAK ELEVATIONS (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.05	.12
10.00	DISCHG	.22	.40	.72	1.19	1.85	2.28	4.42	6.61	9.52	13.74
11.00	DISCHG	19.54	26.76	36.09	48.12	63.29	81.52	105.58	138.75	180.65	257.21
12.00	DISCHG	376.41	554.88	804.02	1119.67	1524.87	2017.38	2567.55	3167.14	3813.41	4477.25
13.00	DISCHG	5151.76	5779.00	6330.21	6799.04	7160.06	7383.77	7473.10	7446.83	7320.31	7100.70
14.00	DISCHG	6809.51	6476.70	6117.19	5744.59	5374.17	5016.68	4680.98	4369.68	4081.94	3815.87
15.00	DISCHG	3575.55	3359.16	3160.90	2980.39	2817.20	2668.64	2532.21	2407.17	2293.42	2189.01
16.00	DISCHG	2092.54	2003.79	1922.08	1845.76	1773.83	1707.13	1645.04	1586.61	1531.90	1481.20
17.00	DISCHG	1434.15	1389.99	1349.03	1311.11	1275.62	1242.46	1211.86	1183.61	1157.26	1132.55
18.00	DISCHG	1109.64	1088.30	1068.01	1048.62	1030.12	1012.27	994.76	977.45	960.24	943.15
19.00	DISCHG	926.16	909.37	892.87	876.68	861.17	846.53	832.78	819.90	807.92	796.95
20.00	DISCHG	786.85	777.39	768.60	760.39	752.55	744.96	737.58	730.31	723.04	715.68
21.00	DISCHG	708.20	700.57	692.83	685.05	677.30	669.67	662.31	655.24	648.60	642.34
22.00	DISCHG	636.41	630.96	625.99	621.32	617.02	613.08	609.42	605.89	602.28	598.50
23.00	DISCHG	594.43	590.03	585.29	580.20	574.85	569.44	564.00	558.62	553.40	548.37
24.00	DISCHG	543.56	539.00	534.34	529.53	524.47	518.52	511.49	502.39	491.17	477.81
25.00	DISCHG	461.95	443.38	422.38	399.16	374.00	347.19	319.22	291.15	263.50	236.77
26.00	DISCHG	211.26	187.48	165.84	146.13	128.44	112.83	99.18	87.15	76.47	67.22
27.00	DISCHG	59.25	52.23	46.01	40.61	35.91	31.71	28.00	24.76	21.89	19.31
28.00	DISCHG	17.05	15.08	13.31	11.73	10.35	9.14	8.07	7.11	6.27	5.53
29.00	DISCHG	4.88	4.30	3.80	3.35	2.94	2.58	2.26	1.97	1.71	1.45

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2483 CFS-HRS= 25553.99 ACRE-FT= 2111.78

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES 13.59 PEAK DISCHARGES 8382.196 PEAK ELEVATIONS 1587.29

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

[redacted]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1[redacted]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.22	.40	.72	1.19	1.85	2.88	4.42	6.61	9.58	13.90
11.00	DISCHG	19.79	27.24	37.33	50.12	66.04	94.87	133.26	180.75	246.69	374.55
12.00	DISCHG	545.07	774.84	1106.06	1511.48	2006.45	2588.02	3225.86	3913.11	4647.04	5355.17
13.00	DISCHG	6067.74	6733.04	7302.98	7762.88	8114.97	8329.76	8382.03	8317.16	8152.04	7890.46
14.00	DISCHG	7553.69	7175.30	6770.49	6363.70	5959.09	5567.42	5202.29	4865.33	4551.91	4260.71
15.00	DISCHG	4000.34	3763.90	3545.60	3348.02	3169.48	3005.56	2854.37	2717.49	2591.88	2475.61
16.00	DISCHG	2369.08	2270.99	2179.96	2094.73	2015.16	1940.84	1871.11	1806.24	1745.41	1688.59
17.00	DISCHG	1635.88	1587.03	1541.38	1498.77	1459.51	1422.72	1388.49	1356.83	1327.38	1299.59
18.00	DISCHG	1273.58	1249.26	1225.99	1203.62	1182.25	1161.61	1141.31	1121.22	1101.64	1082.16
19.00	DISCHG	1062.79	1043.86	1025.43	1007.31	989.90	973.75	958.50	944.11	930.78	918.57
20.00	DISCHG	907.22	896.53	886.58	877.21	868.22	859.45	850.89	842.43	833.97	825.41
21.00	DISCHG	816.74	807.91	799.03	790.15	781.30	772.66	764.48	756.58	749.13	742.23
22.00	DISCHG	735.70	729.66	724.08	718.80	713.87	709.32	704.96	700.71	696.40	691.86
23.00	DISCHG	686.95	681.71	676.13	670.17	663.96	657.68	651.49	645.48	639.63	633.95
24.00	DISCHG	628.24	622.75	617.17	610.75	603.61	595.59	586.29	573.61	558.82	541.90
25.00	DISCHG	521.92	498.97	473.59	446.05	416.74	385.80	353.69	322.15	291.25	261.28
26.00	DISCHG	232.82	206.86	183.04	161.14	141.89	124.87	109.80	96.53	84.90	74.70
27.00	DISCHG	65.77	58.09	51.24	45.20	39.96	35.34	31.20	27.54	24.39	21.54
28.00	DISCHG	19.00	16.79	14.84	13.08	11.52	10.19	8.99	7.90	6.96	6.15
29.00	DISCHG	5.41	4.75	4.20	3.69	3.23	2.82	2.47	2.14	1.85	1.56

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2031 CFS-HRS= 29186.99 ACRE-FT= 2412.01

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
26.32	144.200	1578.81

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.01	.01	.02	.04	.06	.09	.13
11.00	DISCHG	.19	.28	.40	.56	.77	1.06	1.48	2.06	2.84	3.98
12.00	DISCHG	5.67	8.09	11.54	16.34	22.80	31.22	41.86	54.92	70.56	88.82
13.00	DISCHG	93.72	96.00	98.50	101.19	104.02	106.71	108.93	111.14	113.32	115.45
14.00	DISCHG	117.49	119.30	120.54	121.71	122.81	123.84	124.79	125.69	126.52	127.30
15.00	DISCHG	128.02	128.71	129.35	129.95	130.45	130.92	131.36	131.78	132.18	132.56

1[illegible].00	DISCHG	137.86	138.04	138.21	138.[illegible]	138.55	138.71	138.87	139.03	139.18	139.33
19.00	DISCHG	139.48	139.63	139.77	139.[illegible]	140.04	140.18	140.31	140.43	140.56	140.68
2[illegible].00	DISCHG	140.81	140.93	141.03	141.[illegible]	141.19	141.26	141.34	141.41	141.49	141.56
21.00	DISCHG	141.63	141.70	141.78	141.84	141.91	141.98	142.05	142.11	142.18	142.24
22.00	DISCHG	142.31	142.37	142.43	142.49	142.55	142.61	142.67	142.73	142.79	142.85
23.00	DISCHG	142.91	142.97	143.02	143.08	143.13	143.19	143.24	143.30	143.35	143.40
24.00	DISCHG	143.45	143.51	143.56	143.61	143.66	143.70	143.75	143.80	143.84	143.89
25.00	DISCHG	143.93	143.97	144.03	144.04	144.07	144.09	144.12	144.14	144.16	144.17
26.00	DISCHG	144.18	144.19	144.19	144.20	144.20	144.20	144.19	144.19	144.18	144.18
27.00	DISCHG	144.17	144.16	144.15	144.14	144.13	144.12	144.11	144.10	144.08	144.07
28.00	DISCHG	144.06	144.04	144.03	144.02	144.00	143.99	143.97	143.96	143.94	143.93
29.00	DISCHG	143.92	143.90	143.89	143.87	143.86	143.84	143.83	143.81	143.80	143.78

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0977 CFS-HRS= 2370.53 ACRE-FT= 195.90

ENDCMP

ALT #1

EXEC[redacted]VE CONTROL CARD 154 OPERATION COMPUT. F[redacted] XSECTN/STRUCT 2/ 0 TO XSECTN/STRUCT 2/ 1 PASS= 13
STARTING TIME= .00 RAIN DEPTH= 3.87 RAI[redacted]URATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDI[redacted]JN= 2
ALTERNATE NO.= 1 STORM NO.=12

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.19	1676.142	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5669 CFS-HRS= 5935.93 ACRE-FT= 490.54

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.19	1676.142	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 5.87

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09
10.00	DISCHG	.13	.33	.65	.97	1.38	2.52	3.66	4.79	7.02	9.83
11.00	DISCHG	12.63	16.00	21.75	27.51	33.26	58.21	90.40	122.59	171.35	266.57
12.00	DISCHG	361.79	457.01	600.57	756.22	911.87	1062.65	1203.88	1345.10	1486.32	1559.20
13.00	DISCHG	1602.94	1655.69	1676.06	1650.10	1624.15	1598.20	1527.30	1453.95	1380.61	1303.98
14.00	DISCHG	1223.85	1143.72	1064.09	1005.16	946.24	887.32	836.84	793.00	749.15	705.28
15.00	DISCHG	672.50	638.71	604.93	576.32	550.71	525.10	500.52	480.98	461.44	441.91
16.00	DISCHG	425.45	410.25	395.06	380.58	368.28	355.98	343.68	333.35	323.57	313.80
17.00	DISCHG	304.76	297.29	289.83	282.37	276.37	270.62	264.87	259.45	254.55	249.65
18.00	DISCHG	244.75	240.06	235.38	230.70	226.21	221.93	217.65	213.38	209.76	206.15
19.00	DISCHG	202.53	199.28	196.35	193.41	190.53	188.23	185.94	183.65	181.60	179.70
20.00	DISCHG	177.81	175.93	174.17	172.42	170.66	168.88	167.08	165.29	163.49	161.68
21.00	DISCHG	159.88	158.07	156.37	154.71	153.05	151.52	150.27	149.03	147.79	146.83
22.00	DISCHG	145.92	145.01	144.08	143.14	142.20	141.26	140.21	139.14	138.08	136.93
23.00	DISCHG	135.67	134.42	133.17	131.87	130.57	129.27	128.15	127.20	126.26	125.28
24.00	DISCHG	123.92	122.55	121.19	118.82	115.77	112.73	109.39	104.16	98.93	93.70
25.00	DISCHG	87.68	81.27	74.86	68.53	62.49	56.44	50.40	45.32	40.57	35.82
26.00	DISCHG	31.52	28.32	25.13	21.93	19.66	17.60	15.53	13.70	12.32	10.93
27.00	DISCHG	9.54	8.57	7.64	6.71	5.92	5.30	4.69	4.07	3.66	3.25
28.00	DISCHG	2.85	2.51	2.24	1.97	1.70	1.52	1.34	1.16	1.01	.89
29.00	DISCHG	.77	.66	.58	.50	.42	.36	.31	.25	.20	.16

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5669 CFS-HRS= 5935.93 ACRE-FT= 490.54

SUBROUTINE RUNOFF CROSS SECTION 5

AREA= 5.52 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.59	3043.036	(RUNOFF)
21.78	150.182	(RUNOFF)
23.77	128.215	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0087 CFS-HRS= 7155.98 ACRE-FT= 591.37

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.36	4696.109	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0082 CFS-HRS= 16990.82 ACRE-FT= 1404.12

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.20	7576.199	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0084 CFS-HRS= 24146.89 ACRE-FT= 1995.50

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.00	2703.236	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8547 CFS-HRS= 8582.29 ACRE-FT= 709.24

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.15	10200.955	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME										
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

[redacted]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
[redacted]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
8.00	DISCHG	.03	.04	.08	.28	.48	.69	1.17	2.05	3.00	4.04
9.00	DISCHG	6.22	9.05	12.10	15.66	21.55	27.74	34.54	42.81	52.81	63.38
10.00	DISCHG	75.11	88.45	103.35	119.67	136.28	156.27	178.97	202.06	226.30	259.23
11.00	DISCHG	292.78	327.05	372.64	428.62	485.78	577.91	755.18	970.46	1270.38	1603.20
12.00	DISCHG	2113.28	2725.29	3416.66	4194.76	5116.74	6109.35	7159.28	8075.43	8816.27	9495.66
13.00	DISCHG	10028.45	10183.81	10187.83	10071.30	9808.97	9341.86	8846.22	8334.90	7803.82	7241.37
14.00	DISCHG	6736.27	6251.61	5809.68	5422.16	5048.43	4689.44	4407.77	4140.52	3881.71	3651.29
15.00	DISCHG	3456.26	3266.56	3090.53	2933.40	2793.48	2663.01	2537.61	2428.28	2328.49	2231.96
16.00	DISCHG	2136.95	2058.49	1982.65	1907.74	1838.57	1778.94	1719.94	1662.59	1612.19	1565.38
17.00	DISCHG	1519.78	1476.43	1439.56	1404.48	1371.30	1339.53	1312.54	1286.98	1261.71	1237.74
18.00	DISCHG	1216.37	1194.90	1173.29	1152.11	1131.02	1109.79	1088.57	1067.89	1047.15	1026.83
19.00	DISCHG	1007.40	990.01	973.37	957.25	942.74	930.09	918.13	906.55	896.70	887.55
20.00	DISCHG	878.63	869.84	861.52	853.08	844.42	835.51	826.45	817.22	807.88	798.63
21.00	DISCHG	789.49	780.48	771.51	762.96	754.86	746.68	738.74	732.40	726.33	720.64
22.00	DISCHG	715.88	711.85	708.10	704.31	700.26	695.98	691.19	686.04	680.42	674.39
23.00	DISCHG	668.15	661.78	655.24	648.61	641.84	635.43	629.38	623.40	617.69	612.17
24.00	DISCHG	607.05	601.77	594.88	585.46	575.12	561.91	545.43	524.73	499.92	473.40
25.00	DISCHG	442.56	408.96	374.43	339.52	306.30	273.70	242.02	214.25	189.78	166.48
26.00	DISCHG	145.91	128.76	113.73	100.14	87.34	77.55	68.91	60.82	53.21	47.56
27.00	DISCHG	42.31	37.17	32.80	29.35	25.96	22.71	20.23	18.02	15.88	13.88
28.00	DISCHG	12.43	11.01	9.70	8.50	7.57	6.71	5.88	5.17	4.61	4.05
29.00	DISCHG	3.49	3.08	2.71	2.33	1.99	1.75	1.51	1.28	1.09	.94

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9657 CFS-HRS= 32729.17 ACRE-FT= 2704.74

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.38	10132.880	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9659 CFS-HRS= 32733.51 ACRE-FT= 2705.10

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.79	2538.166	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7803 CFS-HRS= 6801.64 ACRE-FT= 562.09

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.29	11964.821	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.93 CFS-HRS= 39535.16 ACRE-FT= 3267

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.59	11855.127	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.01	.03	.07	.16	.31	.51
9.00	DISCHG	.85	1.40	2.16	3.19	4.73	6.93	9.74	13.38	18.23	24.25
10.00	DISCHG	31.52	40.09	50.33	62.10	75.41	90.49	107.32	126.20	146.90	170.10
11.00	DISCHG	196.11	224.51	256.26	292.24	333.10	378.76	434.24	505.45	591.70	736.08
12.00	DISCHG	950.83	1261.03	1694.22	2212.26	2876.30	3673.04	4552.95	5501.22	6511.71	7537.14
13.00	DISCHG	8568.14	9513.06	10326.13	11000.49	11500.36	11781.94	11854.35	11748.67	11490.93	11094.28
14.00	DISCHG	10592.80	10033.86	9440.27	8832.98	8234.69	7660.81	7124.93	6630.80	6176.18	5757.23
15.00	DISCHG	5380.05	5041.45	4731.93	4450.70	4196.99	3966.43	3755.09	3561.78	3386.30	3225.55
16.00	DISCHG	3077.31	2941.18	2816.13	2699.54	2589.83	2488.40	2394.25	2305.88	2223.33	2147.05
17.00	DISCHG	2076.42	2010.24	1948.94	1892.29	1839.30	1789.82	1744.18	1702.09	1662.81	1626.00
18.00	DISCHG	1591.89	1560.15	1530.01	1501.26	1473.90	1447.54	1421.73	1396.26	1371.00	1345.93
19.00	DISCHG	1321.04	1296.48	1272.38	1248.77	1226.17	1204.88	1184.95	1166.28	1148.94	1133.06
20.00	DISCHG	1118.43	1104.72	1091.97	1080.06	1068.68	1057.66	1046.95	1036.41	1025.86	1015.21
21.00	DISCHG	1004.40	993.38	982.19	970.98	959.81	948.82	938.22	928.04	918.49	909.47
22.00	DISCHG	900.93	893.09	885.92	879.18	872.95	867.24	861.92	856.78	851.53	846.05
23.00	DISCHG	840.16	833.80	826.96	819.65	811.97	804.20	796.40	788.70	781.22	774.02
24.00	DISCHG	767.17	760.62	753.95	747.07	739.82	731.32	721.28	708.30	692.32	673.34
25.00	DISCHG	650.81	624.48	594.75	561.91	526.34	488.51	449.05	409.49	370.54	332.91
26.00	DISCHG	297.00	263.56	233.12	205.39	180.51	158.57	139.38	122.47	107.46	94.45
27.00	DISCHG	83.24	73.38	64.64	57.04	50.43	44.54	39.32	34.76	30.73	27.12
28.00	DISCHG	23.94	21.16	18.69	16.47	14.53	12.83	11.32	9.97	8.79	7.76
29.00	DISCHG	6.85	6.03	5.33	4.70	4.12	3.61	3.16	2.76	2.39	2.03

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9313 CFS-HRS= 39535.85 ACRE-FT= 3267.24

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.55	13403.464	1588.61

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

[redacted]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.01	.03	.07	.16	.31	.51
9.00	DISCHG	.85	1.40	2.16	3.19	4.73	6.93	9.74	13.38	18.27	24.34
10.00	DISCHG	31.65	40.42	50.98	63.07	76.79	93.01	110.98	130.99	153.92	179.92
11.00	DISCHG	208.74	240.51	278.02	319.75	366.36	436.97	524.64	628.04	763.05	1002.65
12.00	DISCHG	1312.62	1718.04	2294.79	2968.48	3788.17	4735.69	5756.83	6846.32	7998.03	9087.34
13.00	DISCHG	10171.08	11168.74	12002.19	12650.59	13124.51	13380.13	13381.65	13202.62	12871.54	12398.26
14.00	DISCHG	11816.65	11177.59	10504.36	9838.14	9180.93	8548.13	7961.76	7423.79	6925.33	6463.51
15.00	DISCHG	6052.55	5680.16	5336.85	5027.02	4747.69	4491.53	4255.61	4042.77	3847.74	3667.46
16.00	DISCHG	3502.75	3351.43	3211.19	3080.11	2958.11	2844.38	2737.92	2639.23	2546.91	2460.85
17.00	DISCHG	2381.18	2307.54	2238.77	2174.66	2115.67	2060.44	2009.05	1961.54	1917.36	1875.65
18.00	DISCHG	1836.64	1800.21	1765.39	1731.96	1700.11	1669.47	1639.39	1609.64	1580.76	1552.08
19.00	DISCHG	1523.57	1495.77	1468.73	1442.18	1416.70	1393.12	1370.89	1349.93	1330.54	1312.75
20.00	DISCHG	1296.23	1280.66	1266.14	1252.47	1239.34	1226.54	1214.04	1201.70	1189.35	1176.89
21.00	DISCHG	1164.27	1151.44	1138.57	1125.69	1112.86	1100.34	1088.50	1077.07	1066.28	1056.29
22.00	DISCHG	1046.85	1038.09	1030.00	1022.32	1015.15	1008.50	1002.12	995.92	989.61	982.98
23.00	DISCHG	975.84	968.22	960.12	951.51	942.53	933.47	924.56	915.90	907.48	899.30
24.00	DISCHG	891.05	883.17	875.14	865.89	855.60	844.05	830.67	812.46	791.25	767.03
25.00	DISCHG	738.48	705.75	669.61	630.44	588.83	544.95	499.45	454.81	411.11	368.73
26.00	DISCHG	328.52	291.88	258.25	227.32	200.18	176.17	154.90	136.17	119.77	105.38
27.00	DISCHG	92.78	81.95	72.28	63.75	56.35	49.84	44.00	38.84	34.39	30.37
28.00	DISCHG	26.78	23.67	20.93	18.43	16.23	14.35	12.66	11.13	9.80	8.66
29.00	DISCHG	7.62	6.69	5.91	5.20	4.54	3.97	3.47	3.01	2.59	2.19

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8744 CFS-HRS= 45471.78 ACRE-FT= 3757.79

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
26.50	159.816	1582.26

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.01	.01	.02	.03	.04	.06	.09	.14	.19	.27
10.00	DISCHG	.37	.51	.67	.88	1.14	1.45	1.82	2.26	2.78	3.39
11.00	DISCHG	4.09	4.91	5.85	6.94	8.18	9.64	11.38	13.47	16.00	19.21
12.00	DISCHG	23.42	28.95	36.25	45.84	58.18	73.74	92.09	94.33	96.98	100.03
13.00	DISCHG	103.48	106.96	110.05	113.33	116.76	119.87	122.28	124.68	127.02	129.30
14.00	DISCHG	131.28	133.08	134.77	136.36	137.84	139.22	140.50	141.47	142.22	142.91
15.00	DISCHG	143.56	144.17	144.74	145.28	145.78	146.25	146.70	147.13	147.53	147.92

16.00	DISCHG	148.28	148.63	148.96	149.2[illegible]	149.59	149.88	150.14	150.37	150.60	[illegible]0.82
[illegible]	DISCHG	151.03	151.24	151.43	151.[illegible]	151.81	151.99	152.16	152.33	152.50	[illegible]2.66
[illegible]	DISCHG	152.82	152.98	153.13	153.2[illegible]	153.42	153.56	153.70	153.84	153.97	[illegible]4.11
19.00	DISCHG	154.23	154.36	154.48	154.60	154.72	154.84	154.95	155.07	155.18	155.28
20.00	DISCHG	155.39	155.50	155.60	155.70	155.80	155.90	156.00	156.10	156.20	156.29
21.00	DISCHG	156.39	156.48	156.57	156.66	156.75	156.84	156.93	157.01	157.10	157.18
22.00	DISCHG	157.27	157.35	157.43	157.51	157.59	157.67	157.75	157.83	157.91	157.98
23.00	DISCHG	158.06	158.13	158.21	158.28	158.36	158.43	158.50	158.57	158.64	158.71
24.00	DISCHG	158.78	158.85	158.91	158.98	159.05	159.11	159.18	159.24	159.30	159.36
25.00	DISCHG	159.41	159.47	159.52	159.56	159.61	159.64	159.68	159.71	159.73	159.76
26.00	DISCHG	159.77	159.79	159.80	159.81	159.81	159.81	159.81	159.81	159.81	159.81
27.00	DISCHG	159.80	159.79	159.79	159.78	159.77	159.76	159.75	159.74	159.72	159.71
28.00	DISCHG	159.70	159.69	159.67	159.66	159.65	159.63	159.62	159.61	159.59	159.58
29.00	DISCHG	159.56	159.55	159.53	159.52	159.50	159.49	159.48	159.46	159.45	159.43

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1099 CFS-HRS= 2665.52 ACRE-FT= 220.28

ENDCMP

PASS= 14

EXECUT CONTROL CARD 156 OPERATION INCREM, MAI IME INCREMENT= .10
EXECUTIVE CONTROL CARD 157 OPERATION COMPUT, FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 2.45 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 2 STORM NO.=10

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	795.607	(RUNOFF)
16.96	38.319	(RUNOFF)
19.45	28.653	(RUNOFF)
20.41	25.237	(RUNOFF)
21.50	25.240	(RUNOFF)
22.37	21.938	(RUNOFF)
23.49	21.878	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8530 CFS-HRS= 941.38 ACRE-FT= 77.80

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.04	528.314	(RUNOFF)
16.96	25.086	(RUNOFF)
19.45	18.805	(RUNOFF)
20.45	16.598	(RUNOFF)
21.47	16.640	(RUNOFF)
22.45	14.455	(RUNOFF)
23.47	14.449	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8935 CFS-HRS= 601.51 ACRE-FT= 49.71

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.10	1231.271	(NULL)
16.97	63.326	(NULL)
19.46	47.394	(NULL)
20.45	41.837	(NULL)
21.54	41.577	(NULL)
22.45	36.398	(NULL)
23.53	36.016	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8328 CFS-HRS= 1542.52 ACRE-FT= 127.47

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.22	876.433	(RUNOFF)
19.39	39.581	(RUNOFF)
21.64	34.171	(RUNOFF)
23.64	29.427	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9596 CFS-HRS= 1387.21 ACRE-FT= 114.64

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.13	2051.564	(NULL)
19.46	87.387	(NULL)
21.57	75.641	(NULL)
23.57	65.322	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9884 CFS-HRS= 2929.73 ACRE-FT= 242.11

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.09	821.896	(RUNOFF)
16.95	33.597	(RUNOFF)
19.45	24.984	(RUNOFF)
20.41	21.925	(RUNOFF)
21.46	22.088	(RUNOFF)
22.45	19.102	(RUNOFF)
23.46	19.127	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0180 CFS-HRS= 886.97 ACRE-FT= 73.30

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	2226.176	(NULL)
19.46	112.227	(NULL)
21.62	95.539	(NULL)

23.62	82.252	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .915 CFS-HRS= 3816.33 ACRE-FT= 315.

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.900 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	828.563	(RUNOFF)
19.45	28.745	(RUNOFF)
21.57	24.825	(RUNOFF)
23.57	21.346	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2097 CFS-HRS= 1108.10 ACRE-FT= 91.57

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.32	2719.400	(NULL)
19.45	140.834	(NULL)
21.74	119.030	(NULL)
23.74	102.271	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9668 CFS-HRS= 4923.03 ACRE-FT= 405.84

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	330.911	(RUNOFF)
16.96	15.136	(RUNOFF)
19.45	11.275	(RUNOFF)
20.45	9.937	(RUNOFF)
21.50	9.890	(RUNOFF)
23.50	8.559	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9601 CFS-HRS= 390.36 ACRE-FT= 32.26

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.38	2812.097	(NULL)
21.76	127.807	(NULL)
23.78	109.692	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9663 CFS-HRS= 5313.47 ACRE-FT= 439.11

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	97.079	(RUNOFF)
16.96	4.545	(RUNOFF)
19.45	3.405	(RUNOFF)
20.45	3.008	(RUNOFF)
21.46	3.019	(RUNOFF)
22.45	2.617	(RUNOFF)
23.46	2.624	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0036 CFS-HRS= 108.91 ACRE-FT= 9.00

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	2841.991	(NULL)
21.77	130.477	(NULL)
23.77	111.959	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.04	.14	.36
9.00	DISCHG	.68	1.09	1.57	2.14	2.76	3.40	4.06	4.78	5.58	6.47
10.00	DISCHG	7.51	8.82	10.61	13.04	15.94	19.05	22.41	26.64	32.24	39.05
11.00	DISCHG	46.37	54.70	66.31	82.38	102.19	125.09	184.77	358.87	682.71	1147.40
12.00	DISCHG	1699.06	2224.33	2600.21	2806.83	2837.78	2741.30	2546.08	2252.19	1911.85	1591.37
13.00	DISCHG	1329.94	1128.86	970.49	844.88	746.86	672.95	616.79	570.04	529.78	495.35
14.00	DISCHG	467.06	443.49	422.12	402.80	386.02	372.22	360.60	349.68	339.40	330.19
15.00	DISCHG	322.18	315.08	307.64	300.05	292.68	285.99	279.57	272.53	265.07	257.68
16.00	DISCHG	250.95	244.78	238.58	232.62	227.24	222.71	219.02	215.99	213.58	211.83
17.00	DISCHG	210.68	209.71	208.36	206.60	204.47	202.21	199.68	196.51	192.95	189.34
18.00	DISCHG	185.99	182.72	179.09	175.20	171.38	167.89	164.82	162.09	159.80	159.08
19.00	DISCHG	156.91	156.19	155.78	155.58	155.49	155.47	155.20	154.21	152.60	150.50
20.00	DISCHG	148.20	145.89	143.63	141.62	140.06	138.96	137.96	136.50	134.58	132.25

21.00	DISCHG	129.80	127.70	126.45	126.09	126.69	127.98	129.37	130.28	130.44	.76
22.00	DISCHG	128.48	126.82	124.96	123.18	121.75	120.71	119.73	118.29	116.34	.98
23.00	DISCHG	111.49	109.33	108.03	107.65	108.24	109.51	110.90	111.77	111.92	.22
24.00	DISCHG	109.82	106.45	99.20	88.70	75.94	62.56	49.47	36.95	25.92	17.23
25.00	DISCHG	11.05	6.98	4.40	2.79	1.77	1.13	.73	.47	.30	.19
26.00	DISCHG	.11	.06	.03	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9624 CFS-HRS= 5422.39 ACRE-FT= 448.11

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
24.23	97.937	1974.08

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.01	.01	.03	.04	.06	.08	.11	.15	.19	.24
10.00	DISCHG	.29	.36	.43	.52	.64	.78	.94	1.13	1.36	1.64
11.00	DISCHG	1.97	2.37	2.84	3.42	4.14	5.03	6.25	8.41	12.58	23.27
12.00	DISCHG	44.46	81.33	88.07	89.88	90.13	91.13	91.89	92.58	93.17	93.66
13.00	DISCHG	94.05	94.32	94.55	94.74	94.91	95.05	95.18	95.30	95.41	95.51
14.00	DISCHG	95.60	95.68	95.76	95.84	95.91	95.98	96.04	96.10	96.16	96.22
15.00	DISCHG	96.27	96.33	96.38	96.43	96.47	96.52	96.56	96.61	96.65	96.69
16.00	DISCHG	96.72	96.76	96.79	96.83	96.86	96.89	96.92	96.95	96.97	97.00
17.00	DISCHG	97.03	97.06	97.09	97.11	97.13	97.16	97.18	97.21	97.23	97.25
18.00	DISCHG	97.27	97.30	97.31	97.33	97.35	97.37	97.39	97.40	97.42	97.43
19.00	DISCHG	97.44	97.46	97.47	97.49	97.50	97.51	97.53	97.54	97.55	97.57
20.00	DISCHG	97.58	97.59	97.60	97.61	97.62	97.63	97.64	97.65	97.66	97.67
21.00	DISCHG	97.68	97.69	97.69	97.70	97.71	97.71	97.72	97.73	97.74	97.74
22.00	DISCHG	97.75	97.76	97.76	97.77	97.78	97.78	97.79	97.79	97.80	97.80
23.00	DISCHG	97.80	97.81	97.81	97.81	97.82	97.82	97.82	97.82	97.83	97.83
24.00	DISCHG	97.83	97.84	97.84	97.84	97.83	97.83	97.82	97.80	97.79	97.77
25.00	DISCHG	97.75	97.73	97.71	97.68	97.66	97.64	97.62	97.59	97.57	97.55
26.00	DISCHG	97.52	97.50	97.48	97.45	97.43	97.41	97.38	97.36	97.34	97.32
27.00	DISCHG	97.29	97.27	97.25	97.22	97.20	97.18	97.15	97.13	97.11	97.08
28.00	DISCHG	97.06	97.04	97.02	96.99	96.97	96.95	96.92	96.90	96.88	96.85
29.00	DISCHG	96.83	96.81	96.79	96.76	96.74	96.72	96.69	96.67	96.65	96.63

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3088 CFS-HRS= 1739.83 ACRE-FT= 143.78

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 4.800 AVERAGE RO[illegible]G COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES 25.74 PEAK DISCHARGES 97.834 PEAK ELEVATIONS (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2817 CFS-HRS= 1587.27 ACRE-FT= 131.17

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES 13.24 PEAK DISCHARGES 588.621 PEAK ELEVATIONS (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4204 CFS-HRS= 2350.26 ACRE-FT= 194.23

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES 13.52 PEAK DISCHARGES 624.633 PEAK ELEVATIONS (NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.02	.04	.05
11.00	DISCHG	.08	.10	.13	.18	.22	4.91	11.35	17.80	29.87	57.69
12.00	DISCHG	85.53	113.40	160.88	213.54	266.14	319.88	375.84	431.88	488.02	519.74
13.00	DISCHG	548.21	577.33	596.18	601.34	611.03	624.12	619.53	611.73	600.63	583.31
14.00	DISCHG	560.41	536.04	510.95	491.37	471.52	451.48	434.10	418.81	403.46	388.38
15.00	DISCHG	376.19	363.97	351.74	341.25	331.78	322.29	313.15	305.73	298.31	290.87
16.00	DISCHG	284.51	278.59	272.67	267.00	262.11	257.21	252.31	248.15	244.20	240.24
17.00	DISCHG	236.57	233.53	230.48	227.43	224.98	222.63	220.27	218.06	216.05	214.04
18.00	DISCHG	212.03	210.08	208.13	206.18	204.27	202.40	200.53	198.66	197.05	195.43
19.00	DISCHG	193.82	192.37	191.06	189.75	188.46	187.44	186.43	185.41	184.50	183.67
20.00	DISCHG	182.83	182.00	181.22	180.44	179.65	178.86	178.05	177.24	176.43	175.61
21.00	DISCHG	174.79	173.97	173.20	172.45	171.70	171.00	170.45	169.89	169.33	168.91
22.00	DISCHG	168.51	168.11	167.70	167.29	166.87	166.45	165.97	165.49	165.00	164.47
23.00	DISCHG	163.90	163.32	162.74	162.14	161.53	160.93	160.41	159.98	159.55	159.10
24.00	DISCHG	158.46	157.81	157.17	156.03	154.56	153.08	151.46	148.91	146.35	143.80
25.00	DISCHG	140.85	137.71	134.57	131.47	128.51	125.54	122.58	120.09	117.76	115.42
26.00	DISCHG	113.30	111.73	110.15	108.56	107.43	106.40	105.37	104.45	103.75	103.04
27.00	DISCHG	102.34	101.84	101.36	100.88	100.47	100.15	99.82	99.49	99.27	99.05
28.00	DISCHG	98.82	98.63	98.48	98.32	98.17	98.06	97.94	97.83	97.74	97.66
29.00	DISCHG	97.57	97.49	97.43	97.37	97.31	97.26	97.21	97.16	97.11	97.07

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .4179 CFS-HRS= 3937.53 ACRE-FT= 325.40

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SUBROUTINE RUNOFF    CROSS SECTION   5
          AREA=   5.52      INPUT RUNOFF CURVE=  81.0      TIME OF CONCENTRATION=  1.18

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             12.63                      1299.880                    (RUNOFF)
             21.79                        79.927                    (RUNOFF)
             23.78                        68.588                    (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .9051       CFS-HRS=     3224.54       ACRE-FT=     266.48

SUBROUTINE REACH     CROSS SECTION 104
          LENGTH=  12500.00     INPUT COEFFICIENT=   .7800     INPUT ROUTINGS=   .00

          AVERAGE WATER VELOCITY=   6.027       AVERAGE ROUTING COEFF=  .7800       NUMBER OF ROUTINGS=  4.49

SUBROUTINE RUNOFF    CROSS SECTION   4
          AREA=  13.11      INPUT RUNOFF CURVE=  81.0      TIME OF CONCENTRATION=  2.17

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             13.39                     2018.364                    (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .9049       CFS-HRS=     7656.17       ACRE-FT=     632.71

SUBROUTINE ADDHYD    CROSS SECTION 104
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             13.29                     3236.489                    (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .9050       CFS-HRS=    10880.76       ACRE-FT=     899.19

SUBROUTINE SAVMOV    CROSS SECTION 104
          INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF    CROSS SECTION   6
          AREA=   7.17      INPUT RUNOFF CURVE=  79.0      TIME OF CONCENTRATION=  1.80

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             13.03                     1082.990                    (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=    .8025       CFS-HRS=     3713.40       ACRE-FT=     306.87

SUBROUTINE ADDHYD    CROSS SECTION 106
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                  PEAK DISCHARGES              PEAK ELEVATIONS
             13.25                     4294.069                    (NULL)

   TIME                          HYDROGRAPH, TZERO=    .00       DELTA T=  .10       DRAINAGE AREA=  25.80
    .00   DISCHG       .00       .00       .00       .00       .00       .00       .00       .00       .00       .00
```

1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.02	.05	.08	.11	.47	.90	1.33	1.96	4.14
11.00	DISCHG	6.42	8.84	14.45	23.53	33.07	54.66	111.29	183.81	290.96	411.40
12.00	DISCHG	610.94	854.96	1132.95	1449.84	1843.32	2274.39	2733.31	3150.24	3507.01	3842.34
13.00	DISCHG	4118.65	4236.09	4288.25	4286.29	4217.46	4053.10	3871.74	3676.56	3468.48	3241.08
14.00	DISCHG	3034.80	2836.71	2652.79	2488.51	2330.46	2177.80	2056.36	1940.95	1829.20	1729.15
15.00	DISCHG	1643.89	1561.00	1493.75	1414.45	1352.41	1294.37	1238.53	1189.53	1144.57	1100.59
16.00	DISCHG	1058.08	1022.13	987.25	952.77	920.77	892.90	865.31	838.47	814.75	792.65
17.00	DISCHG	771.13	750.68	733.22	716.61	700.92	685.92	673.13	660.94	648.90	637.44
18.00	DISCHG	627.12	616.74	606.28	595.55	585.64	575.25	564.85	554.63	544.37	534.32
19.00	DISCHG	524.65	515.90	507.52	499.40	492.10	485.73	479.71	473.90	468.97	464.39
20.00	DISCHG	459.93	455.54	451.37	447.14	442.79	438.30	433.71	429.04	424.30	419.60
21.00	DISCHG	414.95	410.36	405.80	401.44	397.31	393.14	389.10	385.88	382.80	379.93
22.00	DISCHG	377.54	375.53	373.68	371.80	369.78	367.63	365.21	362.60	359.73	356.65
23.00	DISCHG	353.45	350.19	346.82	343.41	339.92	336.61	333.49	330.40	327.46	324.61
24.00	DISCHG	321.98	319.26	315.70	310.77	305.36	298.44	289.76	278.82	265.72	251.69
25.00	DISCHG	235.34	217.51	199.19	180.64	162.98	145.64	128.80	114.02	101.01	88.62
26.00	DISCHG	77.66	68.54	60.54	53.31	46.49	41.28	36.69	32.38	28.33	25.33
27.00	DISCHG	22.53	19.80	17.47	15.63	13.83	12.10	10.78	9.61	8.47	7.40
28.00	DISCHG	6.63	5.87	5.17	4.53	4.04	3.58	3.14	2.76	2.46	2.16
29.00	DISCHG	1.86	1.65	1.45	1.25	1.07	.94	.81	.69	.58	.50

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8765 CFS-HRS= 14594.15 ACRE-FT= 1206.06

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.46	4268.429	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8766 CFS-HRS= 14596.08 ACRE-FT= 1206.22

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.82	992.732	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7541 CFS-HRS= 2881.25 ACRE-FT= 238.11

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

13.36 4987.392 (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8538 CFS-HRS= 17477.33 ACRE-FT= 1444.35

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.67	4945.839	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.03	.05	.11	.28
11.00	DISCHG	.56	.94	1.62	2.87	4.86	7.75	13.18	23.02	37.39	72.66
12.00	DISCHG	134.51	234.68	381.11	571.81	824.65	1138.04	1493.64	1886.78	2316.52	2764.19
13.00	DISCHG	3224.44	3659.02	4049.03	4388.76	4659.31	4839.86	4930.22	4942.12	4884.84	4762.28
14.00	DISCHG	4588.58	4383.52	4157.34	3919.27	3680.08	3447.61	3227.90	3022.85	2832.33	2655.49
15.00	DISCHG	2495.18	2350.36	2217.34	2095.96	1985.98	1885.65	1793.34	1708.57	1631.26	1560.15
16.00	DISCHG	1494.32	1433.63	1377.64	1325.23	1275.74	1229.73	1186.76	1146.22	1108.16	1072.79
17.00	DISCHG	1039.90	1008.97	980.24	953.61	928.66	905.34	883.80	863.91	845.35	827.96
18.00	DISCHG	811.81	796.76	782.42	768.70	755.59	742.90	730.44	718.09	705.80	693.57
19.00	DISCHG	681.40	669.35	657.50	645.85	634.68	624.11	614.17	604.84	596.16	588.21
20.00	DISCHG	580.90	574.05	567.68	561.75	556.08	550.60	545.27	540.01	534.75	529.42
21.00	DISCHG	524.00	518.46	512.83	507.17	501.53	495.97	490.61	485.46	480.62	476.05
22.00	DISCHG	471.73	467.77	464.15	460.77	457.64	454.80	452.16	449.61	447.01	444.28
23.00	DISCHG	441.33	438.13	434.67	430.97	427.06	423.11	419.13	415.19	411.36	407.67
24.00	DISCHG	404.16	400.81	397.39	393.86	390.15	385.78	380.62	373.92	365.65	355.80
25.00	DISCHG	344.07	330.33	314.77	297.55	278.86	258.93	238.12	217.22	196.62	176.70
26.00	DISCHG	157.68	139.95	123.81	109.10	95.90	84.25	74.06	65.08	57.11	50.20
27.00	DISCHG	44.25	39.01	34.37	30.33	26.82	23.69	20.92	18.50	16.36	14.43
28.00	DISCHG	12.74	11.27	9.95	8.77	7.74	6.84	6.03	5.31	4.69	4.14
29.00	DISCHG	3.65	3.22	2.84	2.51	2.20	1.93	1.69	1.47	1.28	1.08

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8538 CFS-HRS= 17477.65 ACRE-FT= 1444.35

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.66	5560.977	1586.44

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
[illegible]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.04	.07	.15	.33
11.00	DISCHG	.63	1.05	1.76	3.05	5.08	12.65	24.53	40.81	67.26	130.35
12.00	DISCHG	220.04	348.28	542.10	785.35	1090.79	1457.92	1869.48	2318.66	2804.54	3283.93
13.00	DISCHG	3772.66	4236.35	4645.21	4993.10	5270.34	5463.98	5549.75	5553.85	5485.46	5345.60
14.00	DISCHG	5148.99	4919.56	4668.29	4410.65	4151.60	3899.10	3662.00	3441.67	3235.79	3043.87
15.00	DISCHG	2871.37	2714.33	2569.09	2437.21	2317.76	2207.94	2106.50	2014.30	1929.57	1851.52
16.00	DISCHG	1778.84	1712.23	1650.31	1592.23	1537.85	1486.94	1439.07	1394.38	1352.36	1313.03
17.00	DISCHG	1276.47	1242.50	1210.72	1181.05	1153.65	1127.97	1104.07	1081.97	1061.40	1042.00
18.00	DISCHG	1023.84	1006.83	990.55	974.88	959.86	945.30	930.97	916.75	902.85	889.00
19.00	DISCHG	875.21	861.72	848.55	835.60	823.14	811.55	800.60	790.25	780.67	771.88
20.00	DISCHG	763.73	756.05	748.90	742.19	735.74	729.46	723.32	717.26	711.18	705.03
21.00	DISCHG	698.79	692.43	686.03	679.62	673.22	666.97	661.05	655.35	649.96	644.96
22.00	DISCHG	640.25	635.88	631.66	628.05	624.51	621.25	618.13	615.09	612.01	608.75
23.00	DISCHG	605.23	601.45	597.41	593.10	588.60	584.04	579.54	575.17	570.91	566.77
24.00	DISCHG	562.62	558.62	554.56	549.89	544.70	538.87	532.08	522.83	512.00	499.59
25.00	DISCHG	484.92	468.04	449.34	429.02	407.36	384.47	360.70	337.31	314.38	292.12
26.00	DISCHG	270.98	251.67	233.95	217.66	203.33	190.65	179.43	169.53	160.86	153.25
27.00	DISCHG	146.59	140.85	135.73	131.22	127.30	123.84	120.74	117.99	115.63	113.48
28.00	DISCHG	111.57	109.90	108.43	107.09	105.91	104.90	103.98	103.15	102.43	101.80
29.00	DISCHG	101.23	100.71	100.29	99.88	99.51	99.18	98.90	98.63	98.39	98.15

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7164 CFS-HRS= 21415.18 ACRE-FT= 1765.75

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
23.56	133.371	1576.71

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11.00	DISCHG	.00	.01	.01	.02	.04	.07	.14	.26	.46	.82
12.00	DISCHG	1.47	2.51	4.15	6.59	10.04	14.72	20.83	28.50	37.88	49.01
13.00	DISCHG	61.89	76.48	92.06	93.77	95.59	97.50	99.45	101.42	103.38	105.30
14.00	DISCHG	106.86	108.19	109.44	110.63	111.75	112.81	113.79	114.71	115.58	116.39

15.00	DISCHG	117.16	117.87	118.55	119.1[illegible]	119.54	119.93	120.30	120.65	120.99	[illegible].31
16.00	DISCHG	121.62	121.91	122.20	122.47	122.73	122.99	123.23	123.46	123.69	[illegible].91
17.00	DISCHG	124.12	124.33	124.53	124.73	124.92	125.10	125.28	125.46	125.63	[illegible].80
18.00	DISCHG	125.96	126.12	126.28	126.44	126.59	126.74	126.89	127.03	127.18	127.31
19.00	DISCHG	127.45	127.59	127.72	127.85	127.98	128.10	128.23	128.35	128.47	128.58
20.00	DISCHG	128.70	128.81	128.93	129.04	129.15	129.26	129.37	129.48	129.58	129.69
21.00	DISCHG	129.79	129.90	130.00	130.08	130.17	130.26	130.34	130.42	130.51	130.59
22.00	DISCHG	130.67	130.75	130.83	130.91	130.99	131.06	131.14	131.22	131.29	131.37
23.00	DISCHG	131.45	131.52	131.59	131.67	131.74	131.81	131.88	131.95	132.02	132.09
24.00	DISCHG	132.16	132.23	132.30	132.36	132.43	132.49	132.56	132.62	132.68	132.74
25.00	DISCHG	132.79	132.85	132.90	132.95	132.99	133.04	133.07	133.11	133.14	133.16
26.00	DISCHG	133.19	133.21	133.23	133.24	133.25	133.26	133.27	133.28	133.28	133.29
27.00	DISCHG	133.29	133.29	133.29	133.29	133.29	133.29	133.29	133.29	133.28	133.28
28.00	DISCHG	133.28	133.27	133.27	133.27	133.26	133.26	133.25	133.25	133.24	133.24
29.00	DISCHG	133.23	133.23	133.22	133.22	133.21	133.21	133.20	133.20	133.19	133.18

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0722 CFS-HRS= 2158.38 ACRE-FT= 178.37

ENDCMP

EXECUT[redacted] CONTROL CARD 159 OPERATION COMPUT, FRO[redacted]ECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 2.99 RAIN [redacted]TION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITIO[redacted] 2
ALTERNATE NO.= 2 STORM NO.=11

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	1173.900	(RUNOFF)
16.95	51.817	(RUNOFF)
19.45	38.529	(RUNOFF)
20.38	33.879	(RUNOFF)
21.50	33.827	(RUNOFF)
22.35	29.367	(RUNOFF)
23.49	29.245	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2404 CFS-HRS= 1368.83 ACRE-FT= 113.12

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	788.378	(RUNOFF)
16.95	34.175	(RUNOFF)
19.45	25.466	(RUNOFF)
20.45	22.437	(RUNOFF)
21.47	22.457	(RUNOFF)
22.45	19.480	(RUNOFF)
23.47	19.446	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1804 CFS-HRS= 883.66 ACRE-FT= 73.03

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.09	1838.334	(NULL)
16.96	85.900	(NULL)
19.46	63.915	(NULL)
21.54	55.878	(NULL)
22.45	48.853	(NULL)
23.53	48.276	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2158 CFS-HRS= 2251.94 ACRE-FT= 186.10

SUBROUTINE SAVMOV CROSS SECTION 14

INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	1277.777	(RUNOFF)
21.64	45.194	(RUNOFF)
23.64	38.831	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3684 CFS-HRS= 1978.25 ACRE-FT= 163.48

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	3039.777	(NULL)
19.45	116.978	(NULL)
21.57	100.931	(NULL)
23.57	86.945	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2827 CFS-HRS= 4230.19 ACRE-FT= 349.58

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.99	1163.383	(RUNOFF)
16.95	44.461	(RUNOFF)
19.43	32.795	(RUNOFF)
20.40	28.844	(RUNOFF)
21.46	29.022	(RUNOFF)
22.45	25.069	(RUNOFF)
23.46	25.077	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4384 CFS-HRS= 1253.20 ACRE-FT= 103.56

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.22	3279.689	(NULL)
19.45	149.734	(NULL)
21.62	127.067	(NULL)
23.62	109.133	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3151 CFS-HRS= 5482.78 ACRE-FT= 453.10

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.11	1145.982	(RUNOFF)
19.41	37.143	(RUNOFF)
21.57	32.025	(RUNOFF)
23.57	27.490	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.6511 CFS-HRS= 1523.76 ACRE-FT= 125.92

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.31	3994.121	(NULL)
21.74	157.348	(NULL)
23.74	134.982	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3756 CFS-HRS= 7004.51 ACRE-FT= 578.85

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	476.121	(RUNOFF)
16.96	20.174	(RUNOFF)
19.45	14.954	(RUNOFF)
20.37	13.138	(RUNOFF)
21.50	13.079	(RUNOFF)
23.50	11.293	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3693 CFS-HRS= 556.71 ACRE-FT= 46.01

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	4123.370	(NULL)
21.78	168.938	(NULL)

23.78 144.664 (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.375. CFS-HRS= 7561.37 ACRE-FT= 624.

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	144.719	(RUNOFF)
16.95	6.192	(RUNOFF)
19.45	4.610	(RUNOFF)
20.45	4.066	(RUNOFF)
21.46	4.075	(RUNOFF)
22.45	3.527	(RUNOFF)
23.46	3.532	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1805 CFS-HRS= 159.99 ACRE-FT= 13.22

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5.6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	4166.890	(NULL)
21.77	172.538	(NULL)
23.77	147.712	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.04	.13	.33
8.00	DISCHG	.63	1.01	1.47	2.01	2.62	3.26	3.90	4.58	5.29	6.07
9.00	DISCHG	6.94	8.00	9.38	11.13	13.14	15.26	17.47	19.95	22.87	26.17
10.00	DISCHG	29.66	33.45	38.20	44.28	51.47	59.21	67.73	78.29	91.35	106.27
11.00	DISCHG	121.73	138.92	161.57	190.34	223.80	261.32	359.04	632.45	1117.40	1793.84
12.00	DISCHG	2581.07	3320.77	3845.93	4128.39	4153.75	3985.89	3669.63	3216.23	2707.14	2236.65
13.00	DISCHG	1856.86	1566.68	1339.87	1161.45	1023.19	919.31	840.46	775.06	719.06	671.42
14.00	DISCHG	632.29	599.65	570.11	543.53	520.51	501.58	485.58	470.55	456.46	443.74
15.00	DISCHG	432.89	423.12	412.92	402.57	392.54	383.42	374.66	365.05	354.95	344.96
16.00	DISCHG	335.96	327.47	319.04	310.96	303.67	297.54	292.52	288.36	285.04	282.61
17.00	DISCHG	281.00	279.62	277.76	275.37	272.49	269.43	265.99	261.69	256.90	252.05
18.00	DISCHG	247.54	243.14	238.22	233.03	227.91	223.24	219.10	215.41	212.32	209.97
19.00	DISCHG	208.37	207.38	206.89	206.49	206.34	206.28	205.88	204.55	202.40	199.62
20.00	DISCHG	196.54	193.45	190.40	187.70	185.58	184.09	182.73	180.79	178.23	175.15
21.00	DISCHG	171.90	169.10	167.32	166.86	167.59	169.24	171.07	172.26	172.49	171.62
22.00	DISCHG	169.92	167.71	165.22	162.83	160.90	159.50	158.18	156.26	153.69	150.58
23.00	DISCHG	147.28	144.43	142.66	142.11	142.83	144.47	146.29	147.44	147.66	146.77

24.00	DISCHG	144.93	140.47	135.91	117.1	100.44	82.85	65.55	48.95	34.32	.79
25.00	DISCHG	14.61	9.22	5.81	3.6	2.34	1.49	.96	.62	.40	.25
26.00	DISCHG	.15	.09	.04	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3705 CFS-HRS= 7721.36 ACRE-FT= 638.09

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
24.39	102.609	1976.50

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.01	.01	.02	.04	.06	.08	.11	.14	.18	.22
9.00	DISCHG	.28	.33	.40	.48	.58	.69	.82	.96	1.13	1.32
10.00	DISCHG	1.53	1.78	2.05	2.37	2.74	3.17	3.66	4.22	4.88	5.64
11.00	DISCHG	6.52	7.53	8.69	10.05	11.65	13.53	15.94	23.13	35.99	60.76
12.00	DISCHG	87.42	88.69	90.04	91.42	92.62	93.80	94.72	95.52	96.20	96.76
13.00	DISCHG	97.22	97.61	97.93	98.20	98.44	98.64	98.83	99.00	99.15	99.29
14.00	DISCHG	99.42	99.55	99.66	99.77	99.87	99.97	100.05	100.13	100.20	100.27
15.00	DISCHG	100.34	100.40	100.47	100.53	100.59	100.65	100.70	100.76	100.81	100.86
16.00	DISCHG	100.91	100.95	101.00	101.04	101.08	101.12	101.16	101.20	101.23	101.27
17.00	DISCHG	101.31	101.34	101.38	101.41	101.45	101.48	101.51	101.55	101.58	101.61
18.00	DISCHG	101.64	101.67	101.69	101.72	101.75	101.77	101.80	101.82	101.84	101.86
19.00	DISCHG	101.88	101.91	101.93	101.95	101.97	101.99	102.01	102.03	102.05	102.07
20.00	DISCHG	102.09	102.11	102.13	102.14	102.16	102.18	102.19	102.21	102.23	102.24
21.00	DISCHG	102.25	102.27	102.28	102.29	102.31	102.32	102.33	102.35	102.36	102.38
22.00	DISCHG	102.39	102.40	102.42	102.43	102.44	102.45	102.46	102.47	102.48	102.49
23.00	DISCHG	102.50	102.51	102.52	102.53	102.54	102.54	102.55	102.56	102.57	102.58
24.00	DISCHG	102.59	102.60	102.60	102.61	102.61	102.61	102.60	102.59	102.58	102.56
25.00	DISCHG	102.55	102.53	102.51	102.49	102.47	102.45	102.43	102.41	102.39	102.37
26.00	DISCHG	102.35	102.33	102.31	102.29	102.27	102.25	102.23	102.21	102.19	102.17
27.00	DISCHG	102.15	102.12	102.10	102.08	102.06	102.04	102.02	102.00	101.98	101.96
28.00	DISCHG	101.94	101.92	101.90	101.88	101.86	101.84	101.82	101.80	101.78	101.76
29.00	DISCHG	101.74	101.72	101.70	101.68	101.66	101.64	101.62	101.60	101.57	101.55

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3263 CFS-HRS= 1838.43 ACRE-FT= 151.93

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES 25.94 | PEAK DISCHARGES 102.403 | PEAK ELEVATIONS (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .2979 CFS-HRS= 1678.58 ACRE-FT= 139.72

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES 13.22 | PEAK DISCHARGES 965.701 | PEAK ELEVATIONS (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9525 CFS-HRS= 3608.29 ACRE-FT= 298.19

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES 13.46 | PEAK DISCHARGES 1094.729 | PEAK ELEVATIONS (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.02	.03	.05
10.00	DISCHG	.07	.10	.13	.16	.20	.25	.31	.37	.50	.68
11.00	DISCHG	.87	1.20	2.06	2.95	3.86	14.52	28.90	43.30	67.39	118.58
12.00	DISCHG	169.61	221.11	303.05	392.71	482.48	571.68	659.69	747.85	836.19	881.88
13.00	DISCHG	922.24	964.48	990.90	993.69	998.54	1002.73	976.44	945.67	912.39	873.99
14.00	DISCHG	830.92	787.20	743.37	710.31	677.09	643.75	615.03	589.95	564.80	540.15
15.00	DISCHG	520.50	500.82	481.11	464.33	449.25	434.15	419.64	407.99	396.33	384.66
16.00	DISCHG	374.77	365.59	356.41	347.64	340.14	332.63	325.12	318.78	312.76	306.75
17.00	DISCHG	301.18	296.58	291.97	287.37	283.67	280.11	276.56	273.21	270.18	267.15
18.00	DISCHG	264.12	261.20	258.29	255.36	252.53	249.80	247.07	244.34	242.01	239.68
19.00	DISCHG	237.35	235.25	233.36	231.47	229.62	228.15	226.68	225.21	223.90	222.69
20.00	DISCHG	221.48	220.28	219.15	218.02	216.90	215.75	214.59	213.43	212.27	211.10
21.00	DISCHG	209.93	208.76	207.66	206.58	205.51	204.51	203.72	202.92	202.12	201.51
22.00	DISCHG	200.94	200.36	199.77	199.17	198.57	197.97	197.29	196.60	195.91	195.16
23.00	DISCHG	194.34	193.53	192.71	191.86	191.00	190.15	189.42	188.81	188.19	187.56
24.00	DISCHG	186.66	185.76	184.86	183.26	181.22	179.16	176.91	173.37	169.82	166.28
25.00	DISCHG	162.19	157.85	153.50	149.20	145.10	140.99	136.89	133.44	130.21	126.98
26.00	DISCHG	124.05	121.88	119.69	117.51	115.95	114.53	113.11	111.85	110.89	109.92
27.00	DISCHG	108.96	108.28	107.62	106.97	106.41	105.97	105.54	105.10	104.79	104.50
28.00	DISCHG	104.20	103.95	103.74	103.54	103.34	103.20	103.05	102.91	102.79	102.69
29.00	DISCHG	102.58	102.49	102.41	102.34	102.26	102.20	102.14	102.09	102.03	101.99

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .5611 CFS-HRS= 5286.88 ACRE-FT= 436.91

SUBROUTINE RUNOFF CROSS SECTION 5

AREA= 5.52 INPUT RUNOFF CURVE= 81.0 OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	1930.118	(RUNOFF)
21.79	106.462	(RUNOFF)
23.78	91.128	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3033 CFS-HRS= 4642.76 ACRE-FT= 383.68

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 91.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.37	2997.618	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4029 CFS-HRS= 11023.54 ACRE-FT= 910.99

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.25	4802.110	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3030 CFS-HRS= 15666.37 ACRE-FT= 1294.67

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.01	1661.935	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1788 CFS-HRS= 5454.51 ACRE-FT= 450.76

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.20	6418.348	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

[redacted]	DISCHG	.00	.00	.00	.0[redacted]	.00	.00	.00	.00	.00	[redacted].00
[redacted]	DISCHG	.00	.00	.00	.0	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.09	.19	.28	.50	1.04	1.61
10.00	DISCHG	2.26	3.61	5.64	8.08	10.72	15.57	21.89	28.57	36.09	49.09
11.00	DISCHG	62.55	76.52	97.33	124.37	152.13	200.27	301.50	426.53	604.15	802.02
12.00	DISCHG	1114.59	1492.41	1920.52	2404.96	2991.36	3627.65	4303.17	4904.26	5404.47	5869.08
13.00	DISCHG	6243.13	6379.05	6418.35	6379.18	6244.05	5973.02	5680.39	5372.63	5049.11	4701.37
14.00	DISCHG	4387.60	4086.41	3809.41	3564.35	3328.62	3100.94	2921.35	2750.83	2585.71	2438.30
15.00	DISCHG	2313.11	2191.38	2078.19	1976.88	1886.44	1801.98	1720.76	1649.72	1584.70	1521.76
16.00	DISCHG	1459.79	1408.25	1358.33	1309.00	1263.34	1223.78	1184.62	1146.54	1112.97	1081.76
17.00	DISCHG	1051.34	1022.45	997.82	974.38	952.23	931.04	913.00	895.86	878.92	862.83
18.00	DISCHG	848.41	833.91	819.31	804.95	790.63	776.21	761.78	747.67	733.50	719.62
19.00	DISCHG	706.31	694.33	682.85	671.74	661.75	653.02	644.78	636.81	630.04	623.76
20.00	DISCHG	617.63	611.59	605.87	600.07	594.11	587.96	581.70	575.32	568.85	562.45
21.00	DISCHG	556.11	549.87	543.65	537.72	532.10	526.43	520.93	516.54	512.34	508.41
22.00	DISCHG	505.13	502.37	499.81	497.21	494.44	491.49	488.18	484.62	480.72	476.53
23.00	DISCHG	472.19	467.76	463.20	458.58	453.86	449.38	445.16	440.98	437.00	433.15
24.00	DISCHG	429.58	425.50	421.09	414.47	407.20	397.91	386.29	371.67	354.15	335.42
25.00	DISCHG	313.59	289.81	265.36	240.64	217.11	194.01	171.56	151.88	134.54	118.03
26.00	DISCHG	103.44	91.28	80.63	70.99	61.92	54.98	48.86	43.12	37.73	33.73
27.00	DISCHG	30.01	26.36	23.26	20.81	18.41	16.10	14.35	12.79	11.27	9.85
28.00	DISCHG	8.82	7.82	6.88	6.03	5.37	4.76	4.17	3.67	3.27	2.87
29.00	DISCHG	2.48	2.19	1.92	1.66	1.42	1.24	1.07	.91	.78	.67

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2685 CFS-HRS= 21120.88 ACRE-FT= 1745.43

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.42	6378.744	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2686 CFS-HRS= 21123.67 ACRE-FT= 1745.66

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.80	1543.149	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1194 CFS-HRS= 4276.81 ACRE-FT= 353.44

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.32	7495.705	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.24 CFS-HRS= 25400.48 ACRE-FT= 2099

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES 13.63 PEAK DISCHARGES 7429.405 PEAK ELEVATIONS (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.05	.11
10.00	DISCHG	.20	.37	.67	1.11	1.73	2.70	4.17	6.25	9.03	13.08
11.00	DISCHG	18.67	25.66	34.73	46.47	61.32	79.20	102.88	135.59	176.97	252.75
12.00	DISCHG	370.99	547.90	795.13	1108.44	1510.79	1999.95	2546.48	3142.21	3784.43	4444.24
13.00	DISCHG	5114.77	5738.44	6286.69	6753.16	7112.55	7335.53	7424.96	7399.48	7274.32	7056.61
14.00	DISCHG	6767.68	6437.31	6080.35	5710.31	5342.39	4987.27	4653.77	4344.48	4058.58	3794.19
15.00	DISCHG	3555.38	3340.34	3143.31	2963.91	2801.73	2654.07	2518.47	2394.19	2281.12	2177.34
16.00	DISCHG	2081.45	1993.22	1912.00	1836.12	1764.61	1698.30	1636.56	1578.47	1524.07	1473.66
17.00	DISCHG	1426.87	1382.96	1342.22	1304.52	1269.23	1236.25	1205.81	1177.72	1151.51	1126.95
18.00	DISCHG	1104.16	1082.93	1062.75	1043.47	1025.07	1007.32	989.90	972.68	955.57	938.56
19.00	DISCHG	921.66	904.96	888.55	872.44	857.01	842.44	828.77	815.95	804.04	793.12
20.00	DISCHG	783.07	773.66	764.91	756.74	748.94	741.39	734.05	726.82	719.58	712.26
21.00	DISCHG	704.82	697.23	689.52	681.78	674.07	666.48	659.16	652.12	645.52	639.29
22.00	DISCHG	633.39	627.97	623.02	618.38	614.10	610.18	606.54	603.02	599.43	595.68
23.00	DISCHG	591.63	587.24	582.52	577.46	572.14	566.76	561.35	555.99	550.80	545.79
24.00	DISCHG	541.02	536.47	531.84	527.05	522.01	516.09	509.10	500.03	488.87	475.58
25.00	DISCHG	459.79	441.31	420.41	397.30	372.25	345.57	317.73	289.79	262.27	235.67
26.00	DISCHG	210.27	186.61	165.08	145.45	127.84	112.31	98.72	86.75	76.12	66.91
27.00	DISCHG	58.97	51.99	45.80	40.42	35.74	31.56	27.87	24.64	21.79	19.22
28.00	DISCHG	16.97	15.01	13.25	11.68	10.30	9.10	8.03	7.07	6.24	5.51
29.00	DISCHG	4.86	4.28	3.78	3.33	2.92	2.56	2.25	1.96	1.70	1.44

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2408 CFS-HRS= 25400.95 ACRE-FT= 2099.13

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES 13.60 PEAK DISCHARGES 8401.449 PEAK ELEVATIONS 1587.29

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

[redacted]	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.03	.08	.16
10.00	DISCHG	.27	.47	.80	1.27	1.93	2.96	4.48	6.62	9.53	13.76
11.00	DISCHG	19.54	26.86	36.80	49.42	65.17	93.72	131.78	178.90	244.36	371.33
12.00	DISCHG	546.71	769.61	1058.18	1501.16	1993.27	2571.63	3206.17	3890.06	4620.63	5326.13
13.00	DISCHG	6037.01	6702.93	7277.59	7746.85	8111.09	8338.25	8401.40	8345.15	8186.71	7930.60
14.00	DISCHG	7598.60	7224.51	6823.72	6420.62	6019.48	5631.02	5268.79	4934.43	4623.38	4334.34
15.00	DISCHG	4075.88	3841.15	3624.42	3428.25	3250.98	3088.22	2938.10	2802.18	2677.45	2562.00
16.00	DISCHG	2456.21	2358.81	2268.41	2183.76	2104.74	2030.93	1961.68	1897.25	1836.83	1780.40
17.00	DISCHG	1728.05	1679.54	1634.20	1591.89	1552.89	1516.36	1482.37	1450.94	1421.70	1394.10
18.00	DISCHG	1368.28	1344.13	1321.07	1298.83	1277.61	1257.12	1236.97	1217.02	1197.58	1178.24
19.00	DISCHG	1159.01	1140.21	1121.91	1103.92	1086.63	1070.59	1055.45	1041.16	1027.93	1015.81
20.00	DISCHG	1004.55	993.94	984.06	974.76	965.84	957.14	948.64	940.25	931.85	923.36
21.00	DISCHG	914.75	905.99	897.18	888.36	879.58	871.00	862.88	855.04	847.65	840.80
22.00	DISCHG	834.32	828.33	822.80	817.55	812.67	808.15	803.83	799.62	795.34	790.84
23.00	DISCHG	785.97	780.77	775.23	769.32	763.15	756.91	750.77	744.80	738.99	733.35
24.00	DISCHG	727.68	722.23	716.69	710.31	703.22	695.25	686.01	673.40	658.69	641.86
25.00	DISCHG	621.98	599.16	573.91	546.51	517.35	486.57	454.62	423.23	392.49	362.65
26.00	DISCHG	334.33	308.49	284.77	262.96	243.80	226.94	211.83	198.60	187.01	176.84
27.00	DISCHG	167.93	160.27	153.42	147.39	142.15	137.54	133.40	129.74	126.58	123.72
28.00	DISCHG	121.17	118.95	117.00	115.22	113.64	112.30	111.08	109.98	109.03	108.19
29.00	DISCHG	107.44	106.77	106.19	105.67	105.19	104.77	104.39	104.05	103.73	103.43

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0266 CFS-HRS= 30687.82 ACRE-FT= 2536.04

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS
NO PEAK FOUND, MAXIMUM DISCHARGE,= 145.445 CFS.

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.01	.01	.01	.02	.04	.06	.09	.13
11.00	DISCHG	.19	.28	.39	.55	.76	1.05	1.47	2.04	2.81	3.94
12.00	DISCHG	5.62	8.02	11.45	16.21	22.62	30.99	41.57	54.55	70.10	88.25
13.00	DISCHG	93.66	95.93	98.42	101.10	103.93	106.64	108.86	111.08	113.27	115.40
14.00	DISCHG	117.46	119.28	120.54	121.72	122.83	123.86	124.83	125.74	126.58	127.38
15.00	DISCHG	128.12	128.91	129.47	130.07	130.58	131.06	131.52	131.95	132.36	132.76

[illegible]	DISCHG	133.13	133.49	133.84	134.[illegible]	134.48	134.79	135.08	135.37	135.64	[illegible]5.91
[illegible]	DISCHG	136.16	136.41	136.65	136.[illegible]	137.11	137.33	137.55	137.76	137.96	[illegible]8.16
18.00	DISCHG	138.36	138.55	138.74	138.91	139.11	139.29	139.46	139.63	139.80	[illegible]9.97
19.00	DISCHG	140.13	140.29	140.45	140.60	140.75	140.90	141.03	141.13	141.22	141.32
20.00	DISCHG	141.41	141.50	141.59	141.68	141.77	141.85	141.94	142.02	142.11	142.19
21.00	DISCHG	142.28	142.36	142.44	142.52	142.60	142.67	142.75	142.83	142.90	142.98
22.00	DISCHG	143.05	143.12	143.20	143.27	143.34	143.41	143.48	143.55	143.62	143.69
23.00	DISCHG	143.76	143.83	143.89	143.96	144.03	144.09	144.16	144.22	144.28	144.35
24.00	DISCHG	144.41	144.47	144.53	144.59	144.65	144.71	144.77	144.83	144.88	144.93
25.00	DISCHG	144.99	145.04	145.08	145.13	145.17	145.21	145.24	145.27	145.30	145.32
26.00	DISCHG	145.35	145.36	145.38	145.39	145.41	145.42	145.42	145.43	145.43	145.44
27.00	DISCHG	145.44	145.44	145.44	145.44	145.44	145.44	145.44	145.44	145.44	145.44
28.00	DISCHG	145.44	145.43	145.43	145.43	145.42	145.42	145.42	145.41	145.41	145.40
29.00	DISCHG	145.40	145.40	145.39	145.39	145.38	145.38	145.38	145.37	145.37	145.36

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0797 CFS-HRS= 2382.79 ACRE-FT= 196.91

ENDCMP

PASS= 16

EXECUTIVE CONTROL CARD 141 OPERATION COMPUT. FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 3.85 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 2 STORM NO.=12

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	1403.168	(RUNOFF)
16.95	73.730	(RUNOFF)
19.45	54.510	(RUNOFF)
20.36	47.855	(RUNOFF)
21.50	47.698	(RUNOFF)
23.49	41.130	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9150 CFS-HRS= 2113.40 ACRE-FT= 174.65

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.860 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	1238.309	(RUNOFF)
16.95	48.992	(RUNOFF)
19.45	36.287	(RUNOFF)
20.41	31.823	(RUNOFF)
21.47	31.688	(RUNOFF)
22.45	27.620	(RUNOFF)
23.47	27.536	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9414 CFS-HRS= 1378.53 ACRE-FT= 113.92

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.08	2887.209	(NULL)
16.96	122.612	(NULL)
19.46	90.695	(NULL)
21.54	79.015	(NULL)
23.53	68.082	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8848 CFS-HRS= 3491.04 ACRE-FT= 288.50

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	1961.911	(RUNOFF)
21.64	62.877	(RUNOFF)
23.64	53.900	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0713 CFS-HRS= 2994.34 ACRE-FT= 247.45

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.11	4739.050	(NULL)
19.45	164.759	(NULL)
21.57	141.697	(NULL)
23.57	121.757	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9666 CFS-HRS= 6485.38 ACRE-FT= 535.95

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.98	1735.326	(RUNOFF)
16.95	61.895	(RUNOFF)
19.41	45.448	(RUNOFF)
20.39	39.916	(RUNOFF)
21.46	40.109	(RUNOFF)
22.45	34.607	(RUNOFF)
23.46	34.584	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1565 CFS-HRS= 1878.82 ACRE-FT= 155.27

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	5131.787	(NULL)
21.62	177.909	(NULL)
23.62	152.342	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0060 CFS-HRS= 8363.18 ACRE-FT= 691.13

SUBROUTINE REACH CROSS SECTION 112

LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.10	1670.289	(RUNOFF)
19.38	50.515	(RUNOFF)
21.57	43.454	(RUNOFF)
23.57	37.238	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.4068 CFS-HRS= 2221.15 ACRE-FT= 183.56

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.31	6174.803	(NULL)
21.74	218.841	(NULL)
23.74	187.176	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0780 CFS-HRS= 10581.25 ACRE-FT= 874.43

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	714.206	(RUNOFF)
16.95	28.289	(RUNOFF)
19.45	20.863	(RUNOFF)
21.50	18.195	(RUNOFF)
23.50	15.673	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0727 CFS-HRS= 842.71 ACRE-FT= 69.64

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	6365.173	(NULL)
21.78	234.962	(NULL)
23.78	200.739	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0777 CFS-HRS= 11424.20 ACRE-FT= 944.10

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.00	227.056	(RUNOFF)
16.95	9.976	(RUNOFF)
19.45	6.569	(RUNOFF)
20.45	5.783	(RUNOFF)
21.46	5.786	(RUNOFF)
22.45	5.000	(RUNOFF)
23.46	5.001	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9414 CFS-HRS= 249.56 ACRE-FT= 20.62

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.35	6431.900	(NULL)
21.77	240.069	(NULL)
23.77	205.050	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.01	.07	.23	.50	.86	1.29
7.00	DISCHG	1.76	2.26	2.84	3.54	4.31	5.11	5.89	6.71	7.67	8.82
8.00	DISCHG	10.16	11.66	13.44	15.64	18.18	20.99	23.79	26.72	30.07	33.75
9.00	DISCHG	37.63	41.91	46.72	52.56	59.10	65.88	72.84	80.41	88.71	97.49
10.00	DISCHG	106.31	115.61	126.73	139.92	154.58	169.59	185.68	205.35	228.93	255.17
11.00	DISCHG	281.91	311.81	351.48	400.73	456.99	519.60	684.75	1132.47	1894.38	2929.69
12.00	DISCHG	4112.24	5209.61	5982.82	6388.77	6397.92	6099.70	5568.03	4836.31	4036.91	3310.74
13.00	DISCHG	2730.38	2289.79	1947.97	1681.22	1475.91	1322.18	1205.65	1109.35	1027.36	957.94
14.00	DISCHG	900.98	853.41	810.45	771.95	738.72	711.37	688.20	666.44	646.10	627.79
15.00	DISCHG	612.14	598.01	583.29	568.42	554.07	541.00	528.40	514.62	500.20	486.00
16.00	DISCHG	473.04	461.04	448.99	437.46	427.08	418.32	411.12	405.13	400.33	396.79
17.00	DISCHG	394.40	392.36	389.64	386.22	382.14	377.77	372.85	366.73	359.94	353.08
18.00	DISCHG	346.70	340.45	333.48	326.15	318.93	312.35	306.49	301.25	296.83	293.48
19.00	DISCHG	291.18	289.73	288.07	288.38	288.13	287.99	287.39	285.49	282.48	278.58
20.00	DISCHG	274.27	269.90	265.59	261.75	258.75	256.62	254.63	251.94	248.37	244.08
21.00	DISCHG	239.54	235.60	233.16	232.32	233.26	235.49	238.01	239.67	240.01	238.82
22.00	DISCHG	236.46	233.36	229.84	226.46	223.73	221.75	219.89	217.20	213.63	209.32
23.00	DISCHG	204.73	200.74	198.23	197.38	198.31	200.54	203.04	204.65	204.99	203.79
24.00	DISCHG	201.24	195.03	181.78	162.79	139.76	115.43	91.38	68.23	47.80	31.73
25.00	DISCHG	20.30	12.91	8.04	5.10	3.24	2.07	1.33	.86	.55	.34
26.00	DISCHG	.21	.12	.09	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.278 CFS-HRS= 11673.76 ACRE-FT= 964.

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
24.41	137.036	1979.92

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02
7.00	DISCHG	.03	.05	.07	.09	.12	.16	.20	.25	.31	.37
8.00	DISCHG	.45	.53	.62	.74	.88	1.03	1.20	1.40	1.62	1.86
9.00	DISCHG	2.14	2.44	2.79	3.16	3.59	4.07	4.60	5.18	5.83	6.54
10.00	DISCHG	7.32	8.16	9.09	10.09	11.20	12.43	13.77	15.25	17.65	21.04
11.00	DISCHG	24.78	28.89	33.46	38.63	44.52	52.74	63.46	79.95	87.58	88.60
12.00	DISCHG	89.92	91.52	93.18	94.77	96.26	97.72	99.08	100.25	101.12	101.83
13.00	DISCHG	102.41	102.89	103.26	103.55	103.81	104.03	104.23	104.42	104.58	104.74
14.00	DISCHG	104.88	105.01	105.14	105.27	105.38	105.50	105.61	105.72	105.82	105.91
15.00	DISCHG	106.00	106.00	106.00	106.00	106.00	106.00	106.00	106.00	106.00	106.00
16.00	DISCHG	106.00	106.00	106.00	106.00	106.00	106.05	106.09	106.14	106.18	106.23
17.00	DISCHG	106.27	106.31	106.36	106.40	106.44	106.48	106.52	106.56	106.60	106.64
18.00	DISCHG	106.67	106.71	106.74	106.77	106.81	106.84	106.87	106.90	106.93	106.95
19.00	DISCHG	106.98	107.01	107.05	107.09	107.12	107.16	107.20	107.24	107.27	107.31
20.00	DISCHG	107.34	107.37	107.41	107.44	107.47	107.50	107.53	107.56	107.59	107.62
21.00	DISCHG	107.65	107.67	107.70	107.72	107.75	107.78	107.80	107.83	107.86	107.88
22.00	DISCHG	107.91	107.94	107.96	107.99	108.88	110.97	112.99	114.93	116.78	118.52
23.00	DISCHG	120.15	121.67	123.10	124.47	125.82	127.18	128.55	129.94	131.31	132.66
24.00	DISCHG	133.94	135.12	136.19	136.77	137.03	136.86	136.24	135.21	133.79	132.06
25.00	DISCHG	130.11	128.00	125.86	123.66	121.47	119.28	117.12	114.98	112.88	110.81
26.00	DISCHG	108.78	107.99	107.96	107.94	107.92	107.90	107.88	107.85	107.83	107.81
27.00	DISCHG	107.79	107.77	107.74	107.72	107.70	107.68	107.66	107.63	107.61	107.59
28.00	DISCHG	107.57	107.55	107.52	107.50	107.48	107.46	107.44	107.41	107.39	107.37
29.00	DISCHG	107.35	107.33	107.30	107.28	107.26	107.24	107.22	107.19	107.17	107.15

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3629 CFS-HRS= 2044.42 ACRE-FT= 168.95

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
25.97	136.229	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .3329 CFS-HRS= 1875.55 ACRE-FT= 155.00

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.67 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.19	1659.041	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5521 CFS-HRS= 5880.03 ACRE-FT= 485.93

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.21	1727.658	(NULL)
24.18	233.976	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.02	.03	.04	.06	.08	.11
9.00	DISCHG	.15	.18	.23	.28	.34	.41	.49	.59	.73	.89
10.00	DISCHG	1.07	1.41	1.88	2.38	2.98	4.31	5.67	7.07	9.56	12.67
11.00	DISCHG	15.83	19.58	25.74	31.97	38.25	63.57	96.13	128.77	177.89	273.12
12.00	DISCHG	368.47	464.02	607.86	764.14	920.94	1073.50	1217.23	1361.53	1506.61	1576.36
13.00	DISCHG	1636.66	1699.08	1727.32	1709.39	1689.70	1668.40	1601.39	1531.24	1460.67	1386.57
14.00	DISCHG	1308.80	1230.89	1153.29	1096.21	1038.57	980.98	931.61	888.69	845.68	803.57
15.00	DISCHG	770.40	737.18	703.93	675.30	650.60	625.39	601.20	581.98	562.76	543.53
16.00	DISCHG	527.34	512.46	497.46	483.21	471.11	458.99	446.85	436.65	426.97	417.29
17.00	DISCHG	408.34	400.94	393.58	386.15	380.20	374.50	368.80	363.43	358.58	353.74
18.00	DISCHG	348.91	344.29	339.69	335.09	330.68	326.48	322.27	318.08	314.53	310.99
19.00	DISCHG	307.44	304.26	301.33	298.52	295.69	293.46	291.22	288.96	286.98	285.13
20.00	DISCHG	283.28	281.45	279.74	278.03	276.31	274.57	272.83	271.08	269.33	267.57
21.00	DISCHG	265.81	264.06	262.41	260.80	259.19	257.70	256.50	255.30	254.11	253.18
22.00	DISCHG	252.31	251.44	250.55	249.65	248.74	247.84	246.82	245.79	244.76	243.64
23.00	DISCHG	242.43	241.21	239.99	238.73	237.47	236.20	235.14	234.36	233.85	233.69
24.00	DISCHG	233.52	233.65	233.96	233.34	232.04	230.69	228.96	225.29	221.56	217.79
25.00	DISCHG	213.20	208.23	203.24	198.31	193.64	188.90	184.05	179.98	176.00	171.71
26.00	DISCHG	167.49	164.00	160.12	155.88	152.24	148.53	144.63	140.83	137.38	133.87
27.00	DISCHG	130.34	127.22	124.17	121.16	118.45	116.23	114.41	112.99	112.09	111.40
28.00	DISCHG	110.85	110.43	110.11	109.81	109.52	109.31	109.11	108.91	108.74	108.60
29.00	DISCHG	108.46	108.33	108.23	108.13	108.03	107.94	107.87	107.79	107.72	107.66

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9231 CFS-HRS= 7755.58 ACRE-FT= 640.92

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

12.59	3016.986	(RUNOFF)	
21.78	149.187	(RUNOFF)	
23.77	127.371	(RUNOFF)	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3921 CFS-HRS= 7096.76 ACRE-FT= 586.48

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 4.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 17.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.36	4656.032	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9916 CFS-HRS= 16859.21 ACRE-FT= 1392.50

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.20	7510.969	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9917 CFS-HRS= 23947.06 ACRE-FT= 1978.98

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.00	2678.601	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8387 CFS-HRS= 8508.14 ACRE-FT= 703.11

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.15	10111.920	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME										
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
8.00	DISCHG	.02	.03	.06	.24	.42	.59	1.03	1.84	2.71	3.65
9.00	DISCHG	5.69	8.33	11.19	14.53	20.16	26.09	32.62	40.61	50.31	60.60
10.00	DISCHG	72.04	85.08	99.65	115.72	132.02	151.70	174.07	196.82	220.72	253.23
11.00	DISCHG	286.34	320.18	365.21	420.52	477.01	568.12	743.60	956.75	1253.78	1583.42
12.00	DISCHG	2088.85	2695.35	3390.54	4151.75	5065.89	6050.18	7091.39	8000.24	8735.55	9410.04
13.00	DISCHG	9939.24	10094.29	10099.26	9984.66	9725.42	9263.00	8772.19	8265.69	7739.53	7182.14
14.00	DISCHG	6651.55	6201.20	5763.15	5378.98	5009.46	4652.58	4373.29	4108.31	3851.69	3623.22
15.00	DISCHG	3429.81	3241.71	3067.14	2911.32	2772.56	2643.15	2518.79	2410.35	2311.36	2215.62
16.00	DISCHG	2131.37	2043.55	1968.30	1893.99	1825.37	1766.20	1707.66	1650.75	1600.75	1554.30
17.00	DISCHG	1509.04	1466.03	1429.45	1394.63	1361.70	1330.19	1303.40	1278.03	1252.96	1229.17
18.00	DISCHG	1207.96	1186.65	1165.29	1144.18	1123.24	1102.17	1081.10	1060.58	1039.98	1019.82
19.00	DISCHG	1000.52	983.26	966.74	950.73	936.33	923.76	911.89	900.40	890.62	881.53
20.00	DISCHG	872.67	863.95	855.69	847.31	838.71	829.87	820.87	811.70	802.43	793.24
21.00	DISCHG	784.17	775.22	766.31	757.82	749.70	741.66	733.78	727.48	721.45	715.80
22.00	DISCHG	711.07	707.08	703.35	699.59	695.57	691.32	686.57	681.45	675.87	669.89
23.00	DISCHG	663.69	657.36	650.86	644.28	637.56	631.19	625.18	619.24	613.57	608.09
24.00	DISCHG	603.01	597.76	590.52	581.56	571.29	558.17	541.80	521.24	496.60	470.26
25.00	DISCHG	439.62	406.24	371.95	337.27	304.27	271.89	240.41	212.63	188.52	165.38
26.00	DISCHG	144.94	127.91	112.98	99.47	86.76	77.03	68.45	60.41	52.85	47.25
27.00	DISCHG	42.03	36.93	32.58	29.15	25.78	22.56	20.10	17.90	15.78	13.79
28.00	DISCHG	12.35	10.94	9.64	8.44	7.52	6.67	5.84	5.14	4.58	4.02
29.00	DISCHG	3.46	3.06	2.69	2.32	1.98	1.74	1.50	1.28	1.08	.93

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9492 CFS-HRS= 32455.20 ACRE-FT= 2683.10

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.38	10044.475	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9495 CFS-HRS= 32459.50 ACRE-FT= 2682.45

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.79	2514.573	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7645 CFS-HRS= 6741.60 ACRE-FT= 557.13

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.09	11859.447	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9149 CFS-HRS= 39201.10 ACRE-FT= 3239.58

SUB[redacted]INE REACH CROSS SECTION 102
LENGTH= 5550.00 INPUT COEFFICIENT= .75[redacted] INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.59	11750.794	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.01	.02	.05	.13	.26	.44
9.00	DISCHG	.75	1.25	1.94	2.80	4.29	6.33	8.94	12.35	16.91	22.63
10.00	DISCHG	[redacted].56	37.77	47.65	58.04	71.97	86.66	103.11	121.59	141.90	164.69
11.00	DISCHG	190.27	218.24	249.52	285.01	325.31	370.38	425.16	495.50	580.71	723.49
12.00	DISCHG	935.96	1243.02	1662.04	2185.01	2842.89	3632.39	4504.47	5444.49	6446.37	7463.30
13.00	DISCHG	8405.92	9423.42	10230.42	10809.05	11396.79	11677.16	11750.13	11646.47	11391.98	10995.64
14.00	DISCHG	10503.24	9949.75	9361.77	8760.09	8167.24	7598.51	7067.39	6577.61	6126.96	5711.63
15.00	DISCHG	[redacted]377.70	5002.00	4695.11	4416.27	4164.69	3936.08	3726.51	3534.81	3360.79	3201.37
16.00	DISCHG	3054.34	2919.34	2795.31	2679.66	2570.84	2470.23	2376.83	2289.16	2207.27	2131.59
17.00	DISCHG	2061.51	1995.85	1935.03	1879.81	1826.23	1777.14	1731.84	1690.07	1651.10	1614.58
18.00	DISCHG	1580.72	1549.23	1519.32	1490.79	1463.64	1437.48	1411.86	1386.58	1361.50	1336.62
19.00	DISCHG	1311.91	1287.53	1263.61	1240.17	1217.74	1196.60	1176.81	1158.28	1141.06	1125.30
20.00	DISCHG	1110.77	1097.15	1084.59	1072.68	1061.38	1050.44	1039.81	1029.34	1018.87	1008.29
21.00	DISCHG	997.56	986.62	975.52	964.38	953.25	942.38	931.86	921.74	912.26	903.30
22.00	DISCHG	894.83	887.04	879.92	873.23	867.04	861.38	856.09	850.99	845.78	840.34
23.00	DISCHG	834.58	828.18	821.[redacted]8	814.13	806.50	798.79	791.04	783.39	775.97	768.82
24.00	DISCHG	762.01	755.51	748.80	742.06	734.86	726.41	716.45	703.55	687.69	668.63
25.00	DISCHG	646.45	620.31	570.[redacted]9	558.16	522.83	485.25	446.06	406.76	368.07	330.69
26.00	DISCHG	295.03	261.80	231.57	204.03	179.31	157.52	138.45	121.65	106.74	93.93
27.00	DISCHG	82.69	72.89	64.21	56.66	50.10	44.24	39.05	34.53	30.53	26.94
28.00	DISCHG	23.78	21.02	18.56	16.36	14.43	12.75	11.25	9.90	8.73	7.71
29.00	DISCHG	6.80	5.99	5.29	4.66	4.09	3.59	3.14	2.74	2.38	2.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.[redacted]150 CFS-HRS= 39201.80 ACRE-FT= 3239.64

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.55	13371.108	1588.61

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.02	.05	.09	.20	.35	.56
9.00	DISCHG	.82	1.43	2.17	3.16	4.63	6.75	9.43	12.94	17.64	23.52
10.00	DISCHG	30.63	39.18	49.53	61.42	74.95	90.98	108.78	128.66	151.46	177.36
11.00	DISCHG	206.10	237.82	275.28	316.97	363.57	433.95	521.29	624.26	758.60	996.61
12.00	DISCHG	1364.43	1767.04	2269.90	2949.15	3763.82	4705.89	5721.70	6806.02	7952.98	9039.65
13.00	DISCHG	10122.58	11121.50	11957.73	12609.44	13096.49	13345.56	13351.52	13177.71	12852.65	12386.21
14.00	DISCHG	11812.05	11180.63	10515.06	9856.10	9205.81	8579.49	7999.00	7466.30	6972.64	6515.20
15.00	DISCHG	6106.10	5735.18	5399.04	5092.06	4815.29	4561.47	4327.71	4116.79	3923.54	3744.29
16.00	DISCHG	3581.68	3431.74	3292.76	3162.87	3041.95	2929.22	2823.68	2725.81	2634.24	2548.88
17.00	DISCHG	2469.85	2396.79	2328.57	2264.96	2206.44	2151.64	2100.64	2053.51	2009.68	1968.32
18.00	DISCHG	1929.63	1893.51	1859.01	1825.88	1794.31	1763.95	1734.13	1704.65	1676.04	1647.61
19.00	DISCHG	1619.35	1591.60	1565.00	1538.69	1513.43	1490.06	1469.03	1447.26	1428.04	1410.43
20.00	DISCHG	1394.05	1378.62	1364.24	1350.70	1337.69	1325.02	1312.64	1300.42	1288.20	1275.87
21.00	DISCHG	1263.37	1250.67	1237.93	1225.18	1212.48	1200.08	1188.36	1177.05	1166.37	1156.49
22.00	DISCHG	1147.14	1138.48	1130.47	1122.88	1115.79	1109.22	1102.91	1096.78	1090.54	1083.99
23.00	DISCHG	1076.92	1069.39	1061.37	1052.85	1043.96	1034.99	1026.19	1017.75	1009.82	1002.50
24.00	DISCHG	995.53	989.16	982.85	975.40	966.90	957.10	945.41	928.85	909.25	886.62
25.00	DISCHG	859.66	828.53	794.02	756.47	716.47	674.15	630.11	586.75	544.07	502.40
26.00	DISCHG	462.52	425.80	391.69	359.90	331.55	306.05	283.08	262.49	244.12	227.69
27.00	DISCHG	213.03	200.12	188.37	177.82	168.55	160.47	153.47	147.53	142.62	138.34
28.00	DISCHG	134.62	131.45	128.67	126.17	123.95	122.06	120.36	118.81	117.48	116.31
29.00	DISCHG	115.26	114.32	113.52	112.79	112.12	111.53	111.01	110.53	110.09	109.67

TOTAL WATER IN INCHES ON DRAINAGE AREA= 1.5708 CFS-HRS= 46957.38 ACRE-FT= 3880.56

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1566.20

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS
NO PEAK FOUND, MAXIMUM DISCHARGE,= 160.910 CFS.

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.01	.01	.02	.03	.04	.06	.09	.13	.19	.26
10.00	DISCHG	.36	.49	.65	.86	1.11	1.41	1.77	2.21	2.72	3.32
11.00	DISCHG	4.01	4.82	5.75	6.83	8.06	9.51	11.24	13.32	15.83	19.02
12.00	DISCHG	23.21	28.70	35.95	45.48	57.74	73.20	92.02	94.25	96.89	99.92
13.00	DISCHG	103.35	106.86	109.93	113.20	116.62	119.77	122.17	124.56	126.91	129.18
14.00	DISCHG	131.18	132.97	134.67	136.26	137.74	139.13	140.41	141.41	142.17	142.87
15.00	DISCHG	143.52	144.14	144.71	145.25	145.77	146.25	146.70	147.14	147.55	147.94
16.00	DISCHG	148.31	148.67	149.01	149.34	149.65	149.96	150.21	150.46	150.69	150.92
17.00	DISCHG	151.14	151.35	151.56	151.76	151.95	152.14	152.32	152.50	152.68	152.85
18.00	DISCHG	153.01	153.18	153.34	153.49	153.65	153.80	153.95	154.09	154.24	154.38

19.00	DISCHG	154.51	154.65	154.79	154.9[illegible]	155.04	155.16	155.29	155.41	155.53	[illegible].64
20.00	DISCHG	155.76	155.89	155.99	156.10	156.21	156.32	156.43	156.53	156.64	.74
21.00	DISCHG	156.85	156.95	157.05	157.15	157.25	157.35	157.44	157.54	157.63	157.73
22.00	DISCHG	157.82	157.91	158.00	158.09	158.18	158.27	158.36	158.45	158.53	158.62
23.00	DISCHG	158.70	158.79	158.87	158.96	159.04	159.12	159.21	159.29	159.37	159.45
24.00	DISCHG	159.53	159.61	159.69	159.76	159.84	159.91	159.99	160.06	160.13	160.20
25.00	DISCHG	160.27	160.34	160.40	160.46	160.51	160.56	160.61	160.65	160.69	160.72
26.00	DISCHG	160.75	160.78	160.80	160.82	160.84	160.85	160.87	160.88	160.89	160.89
27.00	DISCHG	160.90	160.90	160.91	160.91	160.91	160.91	160.91	160.91	160.91	160.91
28.00	DISCHG	160.90	160.90	160.90	160.89	160.89	160.89	160.88	160.88	160.88	160.87
29.00	DISCHG	160.87	160.86	160.86	160.85	160.85	160.85	160.84	160.84	160.83	160.83

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0895 CFS-HRS= 2674.28 ACRE-FT= 221.00

ENDCMP

SUMM[illegible] TABLE 1

ALT	STORM	ID	DA SQ-MI.	RAIN TBLE	AMC	DELTA-T HRS.	TZERO HRS.	PRECIP IN.	PRECIP DURATION	PEAK-Q CFS	PEAK-TIME	PEAK-ELEV	RUNOFF IN.	CSM
1	1	2	5.87	3	2	.10	.00	2.00	237.60	7.20	19.61	.00	.05	1.23
1	1	102	5.87	3	2	.10	.00	2.00	237.60	7.20	19.61	.00	.05	1.23
1	1	5	5.52	3	2	.10	.00	2.00	237.60	6.81	19.30	.00	.05	1.23
1	1	4	13.11	3	2	.10	.00	2.00	237.60	16.07	19.65	.00	.05	1.23
1	1	104	18.63	3	2	.10	.00	2.00	237.60	22.98	19.66	.00	.05	1.23
1	1	6	7.17	3	2	.10	.00	2.00	237.60	8.81	19.38	.00	.05	1.23
1	1	106	25.80	3	2	.10	.00	2.00	237.60	31.68	19.63	.00	.05	1.23
1	1	3	25.80	3	2	.10	.00	2.00	237.60	31.68	19.73	.00	.05	1.23
1	1	3	5.92	3	2	.10	.00	2.00	237.60	7.29	19.20	.00	.05	1.23
1	1	3	31.72	3	2	.10	.00	2.00	237.60	38.95	19.57	.00	.05	1.23
1	1	102	31.72	3	2	.10	.00	2.00	237.60	38.94	19.85	.00	.05	1.23
1	1	-1	37.59	3	2	.10	.00	2.00	237.60	46.13	19.78	1569.15	.05	1.23
1	1	-1	37.59	3	2	.10	.00	2.00	237.60	29.30	.00	.00	.02	.78
2	1	15	1.72	4	2	.10	.00	2.07	237.60	2.20	14.35	.00	.06	1.28
2	1	14	1.16	4	2	.10	.00	2.07	237.60	1.48	14.35	.00	.06	1.28
2	1	14	2.88	4	2	.10	.00	2.07	237.60	3.68	19.15	.00	.06	1.28
2	1	16	2.24	4	2	.10	.00	2.07	237.60	2.86	19.19	.00	.06	1.28
2	1	114	5.12	4	2	.10	.00	2.07	237.60	6.54	19.15	.00	.06	1.28
2	1	13	1.35	4	2	.10	.00	2.07	237.60	1.73	14.35	.00	.06	1.28
2	1	13	6.47	4	2	.10	.00	2.07	237.60	8.27	14.35	.00	.06	1.28
2	1	12	1.45	4	2	.10	.00	2.07	237.60	1.83	19.20	.00	.06	1.28
2	1	12	7.90	4	2	.10	.00	2.07	237.60	10.10	19.22	.00	.06	1.28
2	1	11	.63	4	2	.10	.00	2.07	237.60	.81	14.40	.00	.06	1.28
2	1	111	8.53	4	2	.10	.00	2.07	237.60	10.90	19.15	.00	.06	1.28
2	1	17	.21	4	2	.10	.00	2.07	237.60	.27	19.18	.00	.06	1.28
2	1	117	8.74	4	2	.10	.00	2.07	237.60	11.17	19.15	.00	.06	1.28
2	1	-7	8.74	4	2	.10	.00	2.07	237.60	10.21	.00	.00	.03	1.17
2	1	102	8.74	4	2	.10	.00	2.07	237.60	9.93	.00	.00	.03	1.14
2	1	2	5.87	4	2	.10	.00	2.07	237.60	7.45	19.61	.00	.05	1.27
2	1	102	14.61	4	2	.10	.00	2.07	237.60	18.08	.00	.00	.04	1.24
2	1	5	5.52	4	2	.10	.00	2.07	237.60	7.04	19.30	.00	.06	1.28
2	1	4	13.11	4	2	.10	.00	2.07	237.60	16.63	19.65	.00	.05	1.27
2	1	104	18.63	4	2	.10	.00	2.07	237.60	23.68	19.66	.00	.05	1.27
2	1	6	7.17	4	2	.10	.00	2.07	237.60	9.12	19.38	.00	.05	1.27
2	1	106	25.80	4	2	.10	.00	2.07	237.60	32.79	19.63	.00	.05	1.27
2	1	3	25.80	4	2	.10	.00	2.07	237.60	32.79	19.73	.00	.05	1.27
2	1	3	5.92	4	2	.10	.00	2.07	237.60	7.55	19.20	.00	.05	1.28
2	1	3	31.72	4	2	.10	.00	2.07	237.60	40.31	19.57	.00	.05	1.27
2	1	102	31.72	4	2	.10	.00	2.07	237.60	40.30	19.85	.00	.05	1.27
2	1	-1	46.33	4	2	.10	.00	2.07	237.60	55.70	20.00	1569.35	.05	1.20
2	1	-1	46.33	4	2	.10	.00	2.07	237.60	34.75	.00	.00	.02	.75
1	2	2	5.87	5	2	.10	.00	4.70	6.00	3431.95	3.82	.00	2.54	584.66
1	2	102	5.87	5	2	.10	.00	4.70	6.00	3431.95	3.82	.00	2.54	584.66
1	2	5	5.52	5	2	.10	.00	4.70	6.00	5365.18	3.11	.00	2.39	871.05
1	2	4	13.11	5	2	.10	.00	4.70	6.00	8561.51	3.81	.00	2.59	653.05
1	2	104	18.63	5	2	.10	.00	4.70	6.00	13779.52	3.74	.00	2.59	739.64
1	2	6	7.17	5	2	.10	.00	4.70	6.00	4991.20	3.68	.00	2.81	696.12
1	2	106	25.80	5	2	.10	.00	4.70	6.00	18747.78	3.72	.00	2.94	726.66
1	2	3	25.80	5	2	.10	.00	4.70	6.00	18543.12	3.94	.00	2.94	718.73
1	2	3	5.92	5	2	.10	.00	4.70	6.00	4599.10	3.36	.00	2.72	776.97
1	2	3	31.72	5	2	.10	.00	4.70	6.00	22138.41	3.88	.00	2.80	697.83
1	2	102	31.72	5	2	.10	.00	4.70	6.00	21949.05	4.17	.00	2.90	691.96
1	2	-1	37.59	5	2	.10	.00	4.70	6.00	25211.66	4.15	1581.24	2.84	670.70

	2	-1	37.57	5	2	.10	.00	4.[illegible]	6.00	3310.65	7.46	1585.51	.86	88[illegible]
	2	2	5.87	5	2	.10	.00	9.[illegible]	6.00	9048.15	3.79	.00	6.48	1541.[illegible]
	2	102	5.87	5	2	.10	.00	9.05	6.00	9048.15	3.79	.00	6.48	1541.42
1	3	5	5.52	5	2	.10	.00	9.05	6.00	13355.96	3.04	.00	7.09	2419.56
1	3	4	13.11	5	2	.10	.00	9.05	6.00	21011.96	3.74	.00	7.10	1602.74
1	3	104	18.63	5	2	.10	.00	9.05	6.00	33827.76	3.70	.00	7.09	1815.77
1	3	6	7.17	5	2	.10	.00	9.05	6.00	12541.87	3.45	.00	6.85	1749.21
1	3	106	25.80	5	2	.10	.00	9.05	6.00	46251.18	3.68	.00	7.03	1792.68
1	3	3	25.80	5	2	.10	.00	9.05	6.00	45779.46	3.88	.00	7.03	1774.40
1	3	3	5.92	5	2	.10	.00	9.05	6.00	11900.33	3.23	.00	6.73	2010.19
1	3	3	31.72	5	2	.10	.00	9.05	6.00	54719.97	3.80	.00	6.97	1725.09
1	3	102	31.72	5	2	.10	.00	9.05	6.00	54331.54	4.10	.00	6.97	1712.85
1	3	-1	37.57	5	2	.10	.00	9.05	6.00	52807.47	4.07	1599.58	6.89	1670.86
1	3	-1	37.55	5	2	.10	.00	9.05	6.00	26367.64	5.79	1591.49	4.89	701.45
2	4	15	1.72	5	2	.10	.00	4.59	6.00	3227.70	2.41	.00	2.80	1876.57
2	4	14	1.15	5	2	.10	.00	4.59	6.00	2195.74	2.37	.00	2.71	1892.88
2	4	14	2.88	5	2	.10	.00	4.59	6.00	4901.14	2.48	.00	2.76	1701.78
2	4	16	2.24	5	2	.10	.00	4.59	6.00	3323.74	2.63	.00	2.99	1483.81
2	4	114	5.12	5	2	.10	.00	4.59	6.00	7937.40	2.53	.00	2.86	1550.27
2	4	13	1.35	5	2	.10	.00	4.59	6.00	3387.80	2.32	.00	3.08	2509.48
2	4	13	6.47	5	2	.10	.00	4.59	6.00	9014.58	2.65	.00	2.91	1393.29
2	4	12	1.43	5	2	.10	.00	4.59	6.00	2869.26	2.50	.00	3.38	2005.78
2	4	12	7.90	5	2	.10	.00	4.59	6.00	10477.75	2.80	.00	2.99	1326.30
2	4	11	.63	5	2	.10	.00	4.59	6.00	1279.36	2.41	.00	2.99	2030.73
2	4	111	8.53	5	2	.10	.00	4.59	6.00	10837.51	2.86	.00	2.99	1270.52
2	4	17	.21	5	2	.10	.00	4.59	6.00	422.18	2.34	.00	2.71	2010.40
2	4	117	8.74	5	2	.10	.00	4.59	6.00	10976.18	2.96	.00	2.98	1255.86
2	4	-7	8.74	5	2	.10	.00	4.59	6.00	935.35	5.75	1983.08	1.43	107.02
2	4	102	8.74	5	2	.10	.00	4.59	6.00	932.17	7.34	.00	1.40	106.66
2	4	2	5.87	5	2	.10	.00	4.59	6.00	3300.61	3.82	.00	2.45	562.29
2	4	102	14.61	5	2	.10	.00	4.59	6.00	3343.34	3.84	.00	1.82	228.94
2	4	5	5.52	5	2	.10	.00	4.59	6.00	5174.72	3.11	.00	2.89	937.45
2	4	4	13.11	5	2	.10	.00	4.59	6.00	8264.54	3.82	.00	2.89	630.40
2	4	104	18.63	5	2	.10	.00	4.59	6.00	13297.22	3.74	.00	2.89	713.75
2	4	6	7.17	5	2	.10	.00	4.59	6.00	4812.26	3.68	.00	2.71	671.17
2	4	106	25.80	5	2	.10	.00	4.59	6.00	18087.14	3.72	.00	2.84	701.05
2	4	3	25.80	5	2	.10	.00	4.59	6.00	17890.11	3.94	.00	2.84	693.42
2	4	3	5.92	5	2	.10	.00	4.59	6.00	4428.00	3.36	.00	2.62	747.97
2	4	3	31.72	5	2	.10	.00	4.59	6.00	21358.03	3.89	.00	2.80	673.33
2	4	102	31.72	5	2	.10	.00	4.59	6.00	21174.85	4.18	.00	2.80	667.56
2	4	-1	46.33	5	2	.10	.00	4.59	6.00	24397.88	4.15	1591.86	2.49	526.61
2	4	-1	46.33	5	2	.10	.00	4.59	6.00	3357.37	7.72	1585.53	.84	72.47
2	5	15	1.72	5	2	.10	.00	8.73	6.00	8278.27	2.38	.00	6.66	4812.05
2	5	14	1.15	5	2	.10	.00	8.73	6.00	5961.37	2.34	.00	6.53	5139.11
2	5	14	2.88	5	2	.10	.00	8.73	6.00	12856.54	2.44	.00	6.61	4464.08
2	5	16	2.24	5	2	.10	.00	8.73	6.00	8115.48	2.60	.00	6.91	3622.98
2	5	114	5.12	5	2	.10	.00	8.73	6.00	19959.65	2.50	.00	6.74	3888.37
2	5	13	1.35	5	2	.10	.00	8.73	6.00	8176.01	2.31	.00	7.03	6056.30
2	5	13	6.47	5	2	.10	.00	8.73	6.00	22548.61	2.62	.00	6.80	3485.10
2	5	12	1.43	5	2	.10	.00	8.73	6.00	6499.26	2.48	.00	7.39	4544.94
2	5	12	7.90	5	2	.10	.00	8.73	6.00	25682.54	2.77	.00	6.91	3250.95
2	5	11	.63	5	2	.10	.00	8.73	6.00	3140.83	2.39	.00	6.91	4985.45
2	5	111	8.53	5	2	.10	.00	8.73	6.00	26481.37	2.83	.00	6.91	3104.50
2	5	17	.21	5	2	.10	.00	8.73	6.00	1122.19	2.33	.00	6.54	5343.77
2	5	117	8.74	5	2	.10	.00	8.73	6.00	26795.48	2.83	.00	6.90	3065.84
2	5	-7	8.74	5	2	.10	.00	8.73	6.00	8306.96	3.89	1988.92	5.29	950.45
2	5	102	8.74	5	2	.10	.00	8.73	6.00	8104.25	5.52	.00	5.26	927.26

	5	2	5.87	5	2	.10	.00	[illegible]	6.00	8618.80	3.79	.00	5.18	1468.
	5	102	14.61	5	2	.10	.00	8.	6.00	12109.85	5.30	.00	5.63	828.
	5	5	5.52	5	2	.10	.00	8.7	6.00	12754.35	3.04	.00	6.78	2310.
2	5	4	13.11	5	2	.10	.00	8.73	6.00	20075.05	3.74	.00	6.79	1531.28
2	5	104	18.63	5	2	.10	.00	8.73	6.00	32317.87	3.70	.00	6.79	1734.72
2	5	6	7.17	5	2	.10	.00	8.73	6.00	11960.85	3.45	.00	6.55	1668.18
2	5	106	25.80	5	2	.10	.00	8.73	6.00	44178.17	3.69	.00	6.72	1712.33
2	5	3	25.20	5	2	.10	.00	8.73	6.00	43724.01	3.89	.00	6.72	1694.73
2	5	3	5.92	5	2	.10	.00	8.73	6.00	11340.29	3.23	.00	6.43	1915.59
2	5	3	31.72	5	2	.10	.00	8.73	6.00	52256.11	3.81	.00	6.66	1647.42
2	5	102	31.72	5	2	.10	.00	8.73	6.00	51884.33	4.10	.00	6.66	1635.70
2	5	-1	45.33	5	2	.10	.00	8.73	6.00	60084.54	4.08	1598.98	6.34	1296.88
2	5	-1	46.33	5	2	.10	.00	8.73	6.00	29678.89	6.04	1592.01	4.67	619.01
1	6	2	5.87	6	2	.10	.00	5.85	24.00	1974.77	11.09	.00	3.15	336.42
1	6	102	5.87	6	2	.10	.00	5.85	24.00	1974.77	11.09	.00	3.15	336.42
1	6	5	5.52	6	2	.10	.00	5.85	24.00	2416.55	10.45	.00	3.74	437.78
1	6	4	13.11	6	2	.10	.00	5.85	24.00	5184.18	11.09	.00	3.74	395.44
1	6	104	18.63	6	2	.10	.00	5.85	24.00	7592.55	11.06	.00	3.74	407.54
1	6	6	7.17	6	2	.10	.00	5.85	24.00	2812.45	10.82	.00	3.54	392.25
1	6	106	25.80	6	2	.10	.00	5.85	24.00	10377.35	10.96	.00	3.68	402.22
1	6	3	25.20	6	2	.10	.00	5.85	24.00	10372.71	11.18	.00	3.68	402.04
1	6	3	5.92	6	2	.10	.00	5.85	24.00	2342.00	10.63	.00	3.44	395.61
1	6	3	31.72	6	2	.10	.00	5.85	24.00	12611.56	11.04	.00	3.64	397.59
1	6	102	31.72	6	2	.10	.00	5.85	24.00	12584.87	11.33	.00	3.64	396.75
1	6	-1	37.59	6	2	.10	.00	5.85	24.00	14528.53	11.30	1588.86	3.56	386.50
1	6	-1	37.59	6	2	.10	.00	5.85	24.00	3179.27	17.50	1585.44	1.39	84.58
1	7	2	5.87	6	2	.10	.00	11.17	24.00	5040.87	10.78	.00	7.96	858.75
1	7	102	5.87	6	2	.10	.00	11.17	24.00	5040.87	10.78	.00	7.96	858.75
1	7	5	5.52	6	2	.10	.00	11.17	24.00	5666.97	9.91	.00	8.76	1026.62
1	7	4	13.11	6	2	.10	.00	11.17	24.00	12175.50	10.80	.00	8.76	928.72
1	7	104	18.63	6	2	.10	.00	11.17	24.00	17770.22	10.78	.00	8.76	953.85
1	7	6	7.17	6	2	.10	.00	11.17	24.00	6734.68	10.54	.00	8.50	939.29
1	7	106	25.80	6	2	.10	.00	11.17	24.00	24490.88	10.77	.00	8.69	949.26
1	7	3	25.20	6	2	.10	.00	11.17	24.00	24437.22	10.95	.00	8.69	947.18
1	7	3	5.92	6	2	.10	.00	11.17	24.00	5672.10	10.32	.00	8.36	958.12
1	7	3	31.72	6	2	.10	.00	11.17	24.00	29873.21	10.83	.00	8.63	941.78
1	7	102	31.72	6	2	.10	.00	11.17	24.00	29836.80	11.11	.00	8.63	940.63
1	7	-1	37.59	6	2	.10	.00	11.17	24.00	34833.50	11.07	1533.37	8.52	928.58
1	7	-1	37.59	6	2	.10	.00	11.17	24.00	20049.86	13.09	1590.09	6.29	533.39
2	8	15	1.71	6	2	.10	.00	5.78	24.00	761.01	9.10	.00	3.58	445.03
2	8	14	1.14	6	2	.10	.00	5.78	24.00	500.76	9.07	.00	3.48	431.69
2	8	14	2.87	6	2	.10	.00	5.78	24.00	1249.81	9.14	.00	3.54	435.47
2	8	16	2.24	6	2	.10	.00	5.78	24.00	1028.39	9.55	.00	3.78	459.10
2	8	114	5.11	6	2	.10	.00	5.78	24.00	2266.42	9.22	.00	3.64	443.53
2	8	13	1.39	6	2	.10	.00	5.78	24.00	670.06	9.82	.00	3.88	496.34
2	8	13	6.46	6	2	.10	.00	5.78	24.00	2999.44	9.50	.00	3.69	448.83
2	8	12	1.43	6	2	.10	.00	5.78	24.00	757.84	9.14	.00	4.19	529.96
2	8	12	7.89	6	2	.10	.00	5.78	24.00	3822.20	9.63	.00	3.78	459.09
2	8	11	.63	6	2	.10	.00	5.78	24.00	299.37	9.09	.00	3.78	475.15
2	8	111	8.52	6	2	.10	.00	5.78	24.00	3905.89	9.67	.00	3.78	459.45
2	8	17	.21	6	2	.10	.00	5.78	24.00	90.77	9.06	.00	3.49	432.24
2	8	117	8.73	6	2	.10	.00	5.78	24.00	3993.71	9.65	.00	3.78	457.47
2	8	-7	8.73	6	2	.10	.00	5.78	24.00	815.73	15.44	1982.61	1.53	93.44
2	8	102	8.73	6	2	.10	.00	5.78	24.00	815.17	17.07	.00	1.27	93.38
2	8	2	5.87	6	2	.10	.00	5.78	24.00	1936.70	11.09	.00	3.09	329.93
2	8	102	14.60	6	2	.10	.00	5.78	24.00	2035.45	11.09	.00	2.36	139.41
2	8	5	5.52	6	2	.10	.00	5.78	24.00	2376.07	10.45	.00	3.68	430.45

	8	4	13.11	6	2	.10	.00	5.7[illegible]	24.00	5095.58	11.09	.00	3.68	388.[illegible]
	8	104	18.63	6	2	.10	.00	5.7[illegible]	24.00	7463.57	11.07	.00	3.68	400.[illegible]
	8	6	7.17	6	2	.10	.00	5.7[illegible]	24.00	2752.38	10.82	.00	3.48	385.[illegible]
2	8	106	25.80	6	2	.10	.00	5.78	24.00	10198.41	10.99	.00	3.62	395.29
2	8	3	25.80	6	2	.10	.00	5.78	24.00	10193.71	11.19	.00	3.62	395.11
2	8	3	5.92	6	2	.10	.00	5.78	24.00	2299.99	10.63	.00	3.38	388.51
2	8	3	31.72	6	2	.10	.00	5.78	24.00	12391.29	11.04	.00	3.58	390.65
2	8	102	31.72	6	2	.10	.00	5.78	24.00	12365.08	11.34	.00	3.58	389.82
2	8	-1	46.32	6	2	.10	.00	5.78	24.00	14371.94	11.31	1588.83	2.19	310.28
2	8	-1	46.32	6	2	.10	.00	5.78	24.00	3687.85	17.98	1585.71	1.39	79.62
2	9	15	1.71	6	2	.10	.00	10.96	24.00	1863.37	9.04	.00	8.43	1095.89
2	9	14	1.16	6	2	.10	.00	10.96	24.00	1247.33	9.02	.00	8.29	1075.29
2	9	14	2.87	6	2	.10	.00	10.96	24.00	3096.92	9.07	.00	8.37	1079.07
2	9	16	2.24	6	2	.10	.00	10.96	24.00	2449.52	9.20	.00	8.65	1093.54
2	9	114	5.11	6	2	.10	.00	10.96	24.00	5530.89	9.11	.00	8.51	1082.37
2	9	13	1.35	6	2	.10	.00	10.96	24.00	1553.18	8.98	.00	8.82	1150.50
2	9	13	6.46	6	2	.10	.00	10.96	24.00	6936.48	9.19	.00	8.58	1073.76
2	9	12	1.43	6	2	.10	.00	10.96	24.00	1686.54	9.07	.00	9.20	1179.40
2	9	12	7.85	6	2	.10	.00	10.96	24.00	8544.63	9.32	.00	8.69	1082.97
2	9	11	.66	6	2	.10	.00	10.96	24.00	707.92	9.03	.00	8.69	1123.68
2	9	111	8.52	6	2	.10	.00	10.96	24.00	9193.96	8.39	.00	8.63	1079.10
2	9	17	.21	6	2	.10	.00	10.96	24.00	226.10	9.00	.00	8.29	1076.68
2	9	117	8.73	6	2	.10	.00	10.96	24.00	9403.92	8.39	.00	8.88	1077.20
2	9	-7	8.73	6	2	.10	.00	10.96	24.00	5786.68	11.33	1987.73	6.69	662.85
2	9	102	8.73	6	2	.10	.00	10.96	24.00	5690.76	12.92	.00	6.58	651.96
2	9	2	5.87	6	2	.10	.00	10.96	24.00	4915.52	10.79	.00	7.76	837.40
2	9	102	14.66	6	2	.10	.00	10.96	24.00	8614.14	12.65	.00	7.06	590.01
2	9	5	5.52	6	2	.10	.00	10.96	24.00	5536.17	9.91	.00	8.56	1002.93
2	9	4	13.11	6	2	.10	.00	10.96	24.00	11896.94	10.81	.00	8.56	907.47
2	9	104	18.63	6	2	.10	.00	10.96	24.00	17365.20	10.78	.00	8.56	932.11
2	9	6	7.17	6	2	.10	.00	10.96	24.00	6576.22	10.54	.00	8.29	917.19
2	9	106	25.80	6	2	.10	.00	10.96	24.00	23930.06	10.77	.00	8.48	927.52
2	9	3	25.80	6	2	.10	.00	10.96	24.00	23880.64	10.95	.00	8.48	925.61
2	9	3	5.92	6	2	.10	.00	10.96	24.00	5540.78	10.35	.00	8.16	935.94
2	9	3	31.72	6	2	.10	.00	10.96	24.00	29183.10	10.84	.00	8.42	920.82
2	9	102	31.72	6	2	.10	.00	10.96	24.00	29146.88	11.12	.00	8.42	918.88
2	9	-1	46.32	6	2	.10	.00	10.96	24.00	34888.88	11.38	1573.39	7.59	753.21
2	9	-1	46.32	6	2	.10	.00	10.96	24.00	22750.10	13.41	1590.69	6.12	491.15
1	10	2	5.87	2	2	.10	.00	2.46	24.00	594.46	13.24	.00	.63	101.27
1	10	102	5.87	2	2	.10	.00	2.46	24.00	594.46	13.24	.00	.63	101.27
1	10	5	5.52	2	2	.10	.00	2.46	24.00	1311.04	12.63	.00	.91	237.51
1	10	4	13.11	2	2	.10	.00	2.46	24.00	2035.54	13.39	.00	.91	155.27
1	10	104	18.63	2	2	.10	.00	2.46	24.00	3264.15	13.29	.00	.91	175.21
1	10	6	7.17	2	2	.10	.00	2.46	24.00	1093.13	13.03	.00	.81	152.46
1	10	106	25.80	2	2	.10	.00	2.46	24.00	4331.51	13.25	.00	.88	167.99
1	10	3	25.80	2	2	.10	.00	2.46	24.00	4305.68	13.46	.00	.88	166.89
1	10	3	5.92	2	2	.10	.00	2.46	24.00	1002.35	12.82	.00	.76	168.32
1	10	3	31.72	2	2	.10	.00	2.46	24.00	5031.51	13.36	.00	.86	158.62
1	10	102	31.72	2	2	.10	.00	2.46	24.00	4989.54	13.67	.00	.86	157.30
1	10	-1	37.59	2	2	.10	.00	2.46	24.00	5549.56	13.64	1586.44	.82	147.63
1	10	-1	37.59	2	2	.10	.00	2.46	24.00	131.56	26.22	1576.38	.09	3.50
1	11	2	5.87	2	2	.10	.00	3.00	24.00	973.20	13.22	.00	.96	165.79
1	11	102	5.87	2	2	.10	.00	3.00	24.00	973.20	13.22	.00	.96	165.79
1	11	5	5.52	2	2	.10	.00	3.00	24.00	1942.25	12.61	.00	1.31	351.86
1	11	4	13.11	2	2	.10	.00	3.00	24.00	3006.26	13.37	.00	1.31	229.31
1	11	104	18.63	2	2	.10	.00	3.00	24.00	4832.29	13.25	.00	1.31	259.38
1	11	6	7.17	2	2	.10	.00	3.00	24.00	1673.18	13.01	.00	1.19	233.36

1	11	106	25.80	2	2	.10	.00	3.87	24.00	6459.40	13.20	.00	1.28	250.[illegible]
1	11	3	25.80	2	2	.10	.00	3.87	24.00	6419.51	13.42	.00	1.28	248.[illegible]
1	11	3	5.92	2	2	.10	.00	3.87	24.00	1553.86	12.80	.00	1.13	262.4[illegible]
1	11	3	31.72	2	2	.10	.00	3.87	24.00	7544.17	13.32	.00	1.25	237.84
1	11	102	31.72	2	2	.10	.00	3.87	24.00	7477.40	13.63	.00	1.25	235.73
1	11	-1	37.59	2	2	.10	.00	3.87	24.00	8382.20	13.59	1587.29	1.20	222.99
1	11	-1	37.59	2	2	.10	.00	3.87	24.00	144.20	26.32	1578.81	.10	3.84
1	12	2	5.87	2	2	.10	.00	3.87	24.00	1676.14	13.19	.00	1.57	285.54
1	12	102	5.87	2	2	.10	.00	3.87	24.00	1676.14	13.19	.00	1.57	285.54
1	12	5	5.52	2	2	.10	.00	3.87	24.00	3043.04	12.59	.00	2.01	551.27
1	12	4	13.11	2	2	.10	.00	3.87	24.00	4696.11	13.36	.00	2.01	358.21
1	12	104	18.43	2	2	.10	.00	3.87	24.00	7576.20	13.20	.00	2.01	406.67
1	12	6	7.17	2	2	.10	.00	3.87	24.00	2703.24	13.00	.00	1.85	377.02
1	12	106	25.80	2	2	.10	.00	3.87	24.00	10200.96	13.15	.00	1.97	395.39
1	12	3	25.80	2	2	.10	.00	3.87	24.00	10132.88	13.38	.00	1.97	392.75
1	12	3	5.92	2	2	.10	.00	3.87	24.00	2538.17	12.79	.00	1.78	428.74
1	12	3	31.72	2	2	.10	.00	3.87	24.00	11964.82	13.29	.00	1.93	377.20
1	12	102	31.72	2	2	.10	.00	3.87	24.00	11855.13	13.59	.00	1.93	373.74
1	12	-1	37.59	2	2	.10	.00	3.87	24.00	13403.46	13.55	1588.61	1.97	356.57
1	12	-1	37.59	2	2	.10	.00	3.87	24.00	159.82	26.50	1582.26	.11	4.25
2	10	15	1.71	2	2	.10	.00	2.45	24.00	795.61	12.06	.00	.85	465.27
2	10	14	1.16	2	2	.10	.00	2.45	24.00	528.31	12.04	.00	.80	455.44
2	10	14	2.87	2	2	.10	.00	2.45	24.00	1231.27	12.10	.00	.83	429.01
2	10	16	2.24	2	2	.10	.00	2.45	24.00	876.49	12.22	.00	.96	391.29
2	10	114	5.11	2	2	.10	.00	2.45	24.00	2051.96	12.13	.00	.89	401.56
2	10	13	1.35	2	2	.10	.00	2.45	24.00	822.00	12.00	.00	1.02	608.89
2	10	13	4.46	2	2	.10	.00	2.45	24.00	2226.18	12.26	.00	.92	344.61
2	10	12	1.43	2	2	.10	.00	2.45	24.00	826.50	12.12	.00	1.20	579.37
2	10	12	7.89	2	2	.10	.00	2.45	24.00	2719.40	12.32	.00	.97	344.66
2	10	11	.63	2	2	.10	.00	2.45	24.00	330.91	12.06	.00	.96	525.26
2	10	111	8.52	2	2	.10	.00	2.45	24.00	2812.10	12.38	.00	.97	330.06
2	10	17	.21	2	2	.10	.00	2.45	24.00	97.08	12.03	.00	.80	462.28
2	10	117	8.73	2	2	.10	.00	2.45	24.00	2841.99	12.37	.00	.96	325.54
2	10	-7	8.73	2	2	.10	.00	2.45	24.00	97.84	24.23	1974.08	.31	11.21
2	10	102	8.73	2	2	.10	.00	2.45	24.00	97.83	25.74	.00	.28	11.21
2	10	2	5.87	2	2	.10	.00	2.45	24.00	588.02	13.24	.00	.62	100.17
2	10	102	14.60	2	2	.10	.00	2.45	24.00	624.63	13.52	.00	.42	42.78
2	10	5	5.52	2	2	.10	.00	2.45	24.00	1299.88	12.63	.00	.91	235.49
2	10	4	13.11	2	2	.10	.00	2.45	24.00	2018.36	13.39	.00	.90	153.56
2	10	104	18.43	2	2	.10	.00	2.45	24.00	3236.49	13.29	.00	.90	173.72
2	10	6	7.17	2	2	.10	.00	2.45	24.00	1082.99	13.03	.00	.80	151.04
2	10	106	25.80	2	2	.10	.00	2.45	24.00	4294.07	13.25	.00	.88	166.44
2	10	3	25.80	2	2	.10	.00	2.45	24.00	4268.43	13.46	.00	.88	165.44
2	10	3	5.92	2	2	.10	.00	2.45	24.00	992.73	12.82	.00	.75	167.69
2	10	3	31.72	2	2	.10	.00	2.45	24.00	4987.39	13.36	.00	.85	157.23
2	10	102	31.72	2	2	.10	.00	2.45	24.00	4945.84	13.67	.00	.85	155.92
2	10	-1	46.32	2	2	.10	.00	2.45	24.00	5560.98	13.66	1556.44	.72	120.06
2	10	-1	46.32	2	2	.10	.00	2.45	24.00	133.37	23.56	1576.71	.07	2.88
2	11	15	1.71	2	2	.10	.00	2.99	24.00	1173.90	12.06	.00	1.24	686.49
2	11	14	1.16	2	2	.10	.00	2.99	24.00	788.38	12.03	.00	1.18	679.64
2	11	14	2.87	2	2	.10	.00	2.99	24.00	1838.33	12.09	.00	1.22	640.53
2	11	16	2.24	2	2	.10	.00	2.99	24.00	1277.78	12.21	.00	1.37	570.44
2	11	114	5.11	2	2	.10	.00	2.99	24.00	3039.78	12.12	.00	1.28	594.87
2	11	13	1.35	2	2	.10	.00	2.99	24.00	1163.38	11.99	.00	1.44	861.76
2	11	13	4.46	2	2	.10	.00	2.99	24.00	3279.69	12.22	.00	1.32	507.69
2	11	12	1.43	2	2	.10	.00	2.99	24.00	1145.88	12.11	.00	1.65	801.32
2	11	12	7.89	2	2	.10	.00	2.99	24.00	3994.12	12.31	.00	1.38	506.23

	11	11	.63	2	2	.10	.00	2.[illegible]	24.00	476.12	12.06	.00	1.37	75[illegible]
	11	111	8.52	2	2	.10	.00	2.[illegible]	24.00	4123.37	12.37	.00	1.38	463.[illegible]
	11	17	.21	2	2	.10	.00	2.[illegible]	24.00	144.72	12.02	.00	1.18	638.[illegible]
2	11	117	8.73	2	2	.10	.00	2.00	24.00	4166.89	12.36	.00	1.37	477.31
2	11	-7	8.73	2	2	.10	.00	2.00	24.00	102.61	24.39	1976.50	.33	11.75
2	11	102	8.73	2	2	.10	.00	2.00	24.00	102.60	25.94	.00	.30	11.75
2	11	2	5.87	2	2	.10	.00	2.00	24.00	965.70	13.22	.00	.95	164.51
2	11	102	14.60	2	2	.10	.00	2.00	24.00	1004.73	13.46	.00	.56	68.82
2	11	5	5.52	2	2	.10	.00	2.00	24.00	1930.12	12.61	.00	1.30	349.56
2	11	4	13.11	2	2	.10	.00	2.00	24.00	2987.62	13.37	.00	1.30	227.89
2	11	104	18.63	2	2	.10	.00	2.00	24.00	4802.11	13.05	.00	1.30	257.76
2	11	6	7.17	2	2	.10	.00	2.00	24.00	1661.94	13.01	.00	1.18	231.79
2	11	106	25.80	2	2	.10	.00	2.00	24.00	6418.35	13.20	.00	1.27	248.77
2	11	3	25.80	2	2	.10	.00	2.00	24.00	6378.74	13.42	.00	1.27	247.24
2	11	3	5.92	2	2	.10	.00	2.00	24.00	1543.15	12.80	.00	1.12	260.67
2	11	3	31.72	2	2	.10	.00	2.00	24.00	7495.70	13.32	.00	1.24	236.31
2	11	102	31.72	2	2	.10	.00	2.00	24.00	7429.40	13.63	.00	1.24	234.22
2	11	-1	46.32	2	2	.10	.00	2.00	24.00	8401.45	13.60	1587.29	1.03	181.38
2	11	-1	46.32	2	2	.10	.00	2.00	24.00	145.44	.00	.00	.08	3.14
2	12	15	1.71	2	2	.10	.00	3.85	24.00	1803.17	12.05	.00	1.92	1054.48
2	12	14	1.16	2	2	.10	.00	3.85	24.00	1238.31	12.02	.00	1.84	1067.51
2	12	14	2.87	2	2	.10	.00	3.85	24.00	2887.21	12.08	.00	1.88	1006.00
2	12	16	2.24	2	2	.10	.00	3.85	24.00	1961.91	12.19	.00	2.07	875.85
2	12	114	5.11	2	2	.10	.00	3.85	24.00	4739.05	12.11	.00	1.97	927.41
2	12	13	1.35	2	2	.10	.00	3.85	24.00	1735.33	11.99	.00	2.16	1285.43
2	12	13	6.46	2	2	.10	.00	3.85	24.00	5131.79	12.19	.00	2.01	794.39
2	12	12	1.43	2	2	.10	.00	3.85	24.00	1670.29	12.10	.00	2.41	1168.03
2	12	12	7.89	2	2	.10	.00	3.85	24.00	6174.80	12.31	.00	2.08	782.61
2	12	11	.63	2	2	.10	.00	3.85	24.00	714.21	12.05	.00	2.07	1133.66
2	12	111	8.52	2	2	.10	.00	3.85	24.00	6365.17	12.36	.00	2.08	747.09
2	12	17	.21	2	2	.10	.00	3.85	24.00	227.06	12.00	.00	1.84	1081.22
2	12	117	8.73	2	2	.10	.00	3.85	24.00	6431.90	12.35	.00	2.07	736.76
2	12	-7	8.73	2	2	.10	.00	3.85	24.00	137.04	24.41	1979.92	.36	15.70
2	12	102	8.73	2	2	.10	.00	3.85	24.00	136.23	25.97	.00	.33	15.60
2	12	2	5.87	2	2	.10	.00	3.85	24.00	1559.04	13.19	.00	1.55	282.63
2	12	102	14.60	2	2	.10	.00	3.85	24.00	1727.66	13.21	.00	.82	118.33
2	12	5	5.52	2	2	.10	.00	3.85	24.00	3016.91	12.59	.00	1.99	546.54
2	12	4	13.11	2	2	.10	.00	3.85	24.00	4656.03	13.36	.00	1.99	355.15
2	12	104	18.63	2	2	.10	.00	3.85	24.00	7510.97	13.20	.00	1.99	403.17
2	12	6	7.17	2	2	.10	.00	3.85	24.00	2678.60	13.00	.00	1.84	373.58
2	12	106	25.80	2	2	.10	.00	3.85	24.00	10111.82	13.15	.00	1.95	391.93
2	12	3	25.80	2	2	.10	.00	3.85	24.00	10044.47	13.38	.00	1.95	389.32
2	12	3	5.92	2	2	.10	.00	3.85	24.00	2514.57	12.79	.00	1.76	424.76
2	12	3	31.72	2	2	.10	.00	3.85	24.00	11859.45	13.29	.00	1.91	373.88
2	12	102	31.72	2	2	.10	.00	3.85	24.00	11750.79	13.59	.00	1.91	370.45
2	12	-1	46.32	2	2	.10	.00	3.85	24.00	13371.11	13.55	1588.61	1.57	288.67
2	12	-1	46.32	2	2	.10	.00	3.85	24.00	160.91	.00	.00	.09	3.47

SUMM[redacted] TABLE 3

DISCHARGE,CFS

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
XSEC/STRUC NO. -7										
ALTERNATE 2	10.21	.00	.00	935.35	8306.96	.00	.00	815.73	5786.68	97.84
XSEC/STRUC NO. -1										
ALTERNATE 1	25.30	3710.65	26367.64	.00	.00	3179.27	20049.96	.00	.00	131.56
ALTERNATE 2	24.75	.00	.00	3357.37	28678.89	.00	.00	3687.85	22750.10	133.37
XSEC/STRUC NO. 2										
ALTERNATE 1	7.20	3431.85	9349.15	.00	.00	1974.77	5040.87	.00	.00	594.46
ALTERNATE 2	7.45	.00	.00	3300.61	8618.80	.00	.00	1936.70	4915.52	588.02
XSEC/STRUC NO. 3										
ALTERNATE 1	38.95	22138.41	54719.97	.00	.00	12611.56	29873.21	.00	.00	5031.51
ALTERNATE 2	40.31	.00	.00	21358.03	52256.11	.00	.00	12391.29	29183.10	4987.39
XSEC/STRUC NO. 4										
ALTERNATE 1	16.07	9561.61	21011.96	.00	.00	5184.18	12175.50	.00	.00	2035.54
ALTERNATE 2	16.63	.00	.00	8264.54	20075.05	.00	.00	5095.58	11896.94	2018.36
XSEC/STRUC NO. 5										
ALTERNATE 1	6.81	5365.18	13355.96	.00	.00	2416.55	5666.97	.00	.00	1311.04
ALTERNATE 2	7.04	.00	.00	5174.72	12754.35	.00	.00	2376.07	5536.17	1299.88
XSEC/STRUC NO. 6										
ALTERNATE 1	9.81	4591.20	12541.87	.00	.00	2812.45	6734.68	.00	.00	1093.13
ALTERNATE 2	9.12	.00	.00	4812.26	11960.85	.00	.00	2762.38	6576.22	1082.99
XSEC/STRUC NO. 11										
ALTERNATE 2	.81	.00	.00	1279.36	3140.83	.00	.00	299.37	707.92	330.91
XSEC/STRUC NO. 12										
ALTERNATE 2	10.10	.00	.00	10477.75	25682.54	.00	.00	3622.20	8544.63	2719.40
XSEC/STRUC NO. 13										
ALTERNATE 2	8.27	.00	.00	9014.58	22548.61	.00	.00	2899.44	6936.48	2226.18
XSEC/STRUC NO. 14										
ALTERNATE 2	3.68	.00	.00	4901.14	12856.54	.00	.00	1249.81	3096.92	1231.27
XSEC/STRUC NO. 15										
ALTERNATE 2	2.20	.00	.00	3227.70	8278.27	.00	.00	761.01	1863.37	795.61
XSEC/STRUC NO. 16										
ALTERNATE 2	2.86	.00	.00	3323.74	8115.48	.00	.00	1028.39	2449.52	976.49
XSEC/STRUC NO. 17										
ALTERNATE 2	.27	.00	.00	422.18	1122.19	.00	.00	90.77	226.10	97.08
XSEC/STRUC NO.102										
ALTERNATE 1	78.94	21949.05	54331.54	.00	.00	12584.87	29836.80	.00	.00	4989.54
ALTERNATE 2	40.30	.00	.00	21174.85	51884.33	.00	.00	12365.08	29146.88	4945.84

XSEC/STRUC NO.104												
ALTERNATE	1	22.88	13779.52	33827.76	.00	.00	7592.55	17770.22	.00	.00	[illegible]	15
ALTERNATE	2	23.68	.00	.00	13297.22	[illegible]317.87	.00	.00	7463.57	17365.20	[illegible]	49
XSEC/STRUC NO.106												
ALTERNATE	1	31.68	18747.78	46251.18	.00	.00	10377.35	24490.88	.00	.00	4331.51	
ALTERNATE	2	32.79	.00	.00	18097.14	44178.17	.00	.00	10190.41	23930.06	4294.07	
XSEC/STRUC NO.111												
ALTERNATE	2	10.90	.00	.00	10837.51	26481.37	.00	.00	3905.99	9193.96	2812.10	
XSEC/STRUC NO.114												
ALTERNATE	2	6.54	.00	.00	7937.40	19950.65	.00	.00	2266.42	5530.89	2051.96	
XSEC/STRUC NO.117												
ALTERNATE	2	11.17	.00	.00	10976.18	26795.48	.00	.00	3993.71	9403.92	2841.99	

ENDJOB CARD ENCOUNTERED. END OF JOB.

```
END OF  1 J[redacted] IN THIS RUN

@END
@END IGNORED - IN CONTROL MODE

@FIN
```

R[illegible]: SCS04M ACCT: 1604000101 PROJECT: SCS04

***** DISPLAYED LOG ENTRY/RESOURCE UTILIZATION SECTION*****

TIME	CPU	IO	CCER	SIZE	QUALIFIER	FILENAME	PROGRAM	VERSION
00:02:10.826	00:00:26.389	00:00:35.820	00:00:09.777	59K	SCS76	ABS	TR20	CONVEX
14:27:16	-102S3 FIN							
00:00:00.617	00:00:00.000	00:00:00.351	00:00:05.512	3K	RESOURCES USED IN CONTROL MODE			
00:02:19.443	00:00:26.389	00:00:36.172	00:00:15.289	55K	SUMMARY			

IMAGES READ: 216 PAGES: 162

START: 14:26:13 SEP 24,1985 FIN: 14:27:16 SEP 24,1985

***** COST SECTION *****

CHARGES BASED ON BATCH RUN AT L PRIORITY

RT ($000.61/MIN)	:$000001.41
CPU ($001.26/MIN)	:$000000.55
IO ($000.67/MIN)	:$000000.40
CCER($001.26/MIN)	:$000000.32

ESTIMATED TOTAL COST:	$000002.68
	==========

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890**SEG

-POWERLINE DAM ANALYSIS, SEPT 1985 EKS WASH

TR-20 HYDROLOGY

WEEK WASH - POWERLINE DAM ANALYSIS

17. REL NO. # 2, STRT # 1; RUN [illegible] DATA. W/S [illegible] DAM

Harry,

the 117 column of print is not printing - you've lost some decimal points. we're having some problems with the printer

Mary M Wooten

OSV.

PROGRAM DATE - FEB. 14, 1974 S/360

*********TABLE TYPE 3 HAS BEEN REPLACED FOR THIS RUN.

EXECUTIVE CONTROL CARD 97 OPERATION LIST

LISTING OF DATA IN CORE

0 -POWERLINE DAM ANALYSIS, SEPT 1985

VELOCITY INCREMENT

1 CTABLE .2000

8	.0000	.0800	.1800	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6900	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300

9 ENDTBL

STRUCT NO.

3 STRUCT 1

	ELEVATION	DISCHARGE	STORAGE
8	1568.2000	.0000	175.0000
8	1570.1000	92.0000	380.0000
8	1572.1000	106.0000	700.0000
8	1574.1000	119.0000	1100.0000
8	1576.1000	130.0000	1600.0000
8	1578.1000	141.0000	2175.0000
8	1580.1000	150.0000	2875.0000
8	1582.1000	159.0000	3675.0000
8	1583.3000	165.0000	4199.9999
8	1584.1000	668.0000	4599.9999
8	1586.1000	4426.0000	5524.9999
8	1588.1000	11084.0000	6724.9999
8	1590.1000	20092.0000	7924.9999

9 ENDTBL

STRUCT NO

```
                          ELEVATION   DISCHARGE      STORAGE
8                         1967.0000       .0000        .0000
9 ENDTBL

                        TIME INCREMENT
4 DIMHYD

8                  .0000       .0300       .1000       .1900       .3100
8                  .4700       .6600       .8200       .9300       .9900
8                 1.0000       .9900       .9300       .8600       .7800
8                  .6800       .5600       .4600       .3900       .3300
8                  .2800       .2410       .2070       .1740       .1470
8                  .1260       .1070       .0910       .0770       .0660
8                  .0550       .0470       .0400       .0340       .0290
8                  .0250       .0210       .0180       .0150       .0130
8                  .0110       .0090       .0080       .0070       .0060
8                  .0050       .0040       .0030       .0020       .0010
8                  .0000       .0000       .0000       .0000       .0000
9 ENDTBL

  COMPUTED PEAK K FACTOR =  484.00

                        TIME INCREMENT
5 RAINFL 1                        .5000

8                  .0000       .0080       .0170       .0260       .0350
8                  .0450       .0550       .0650       .0760       .0870
8                  .0990       .1120       .1250       .1400       .1560
8                  .1740       .1940       .2190       .2540       .3030
8                  .5150       .5830       .6240       .6540       .6820
8                  .7050       .7270       .7480       .7670       .7840
8                  .8000       .8160       .8300       .8440       .8570
8                  .8700       .8820       .8930       .9050       .9160
8                  .9260       .9360       .9460       .9550       .9650
8                  .9740       .9830       .9920      1.0000      1.0000
9 ENDTBL

                        TIME INCREMENT
5 RAINFL 2                        .5000

8                  .0000       .0050       .0110       .0160       .0220
8                  .0280       .0350       .0410       .0480       .0560
8                  .0630       .0710       .0800       .0890       .0980
8                  .1090       .1200       .1330       .1470       .1630
8                  .1810       .2040       .2350       .2830       .6630
8                  .7350       .7720       .7990       .8200       .8380
8                  .8540       .8680       .8800       .8910       .9020
8                  .9120       .9210       .9290       .9370       .9450
8                  .9520       .9590       .9650       .9720       .9780
8                  .9840       .9890       .9950      1.0000      1.0000
9 ENDTBL
```

```
                    TIME INCREMENT
5 RAINFL 3                  2.4000

8              .0000        .0021        .0041        .0062        .0082
8              .0103        .0126        .0148        .0171        .0193
8              .0216        .0241        .0266        .0292        .0317
8              .0342        .0370        .0399        .0427        .0456
8              .0484        .0517        .0549        .0582        .0614
8              .0647        .0686        .0724        .0763        .0801
8              .0840        .0888        .0936        .0984        .1032
8              .1080        .1145        .1210        .1274        .1339
8              .1404        .1509        .1613        .1718        .1822
8              .1927        .2068        .2244        .2481        .2864
8              .6960        .7549        .7840        .8041        .8198
8              .8327        .8406        .8486        .8565        .8645
8              .8724        .8779        .8834        .8889        .8944
8              .8999        .9042        .9085        .9127        .9170
8              .9213        .9248        .9284        .9319        .9355
8              .9390        .9420        .9450        .9481        .9511
8              .9541        .9568        .9594        .9621        .9647
8              .9674        .9698        .9722        .9745        .9769
8              .9793        .9815        .9836        .9858        .9879
8              .9901        .9926        .9951        .9975       1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 4                  2.4000

8              .0000        .0020        .0041        .0061        .0082
8              .0102        .0125        .0147        .0170        .0192
8              .0215        .0240        .0265        .0290        .0314
8              .0339        .0367        .0395        .0424        .0452
8              .0480        .0512        .0544        .0577        .0609
8              .0641        .0679        .0718        .0756        .0795
8              .0833        .0881        .0929        .0976        .1024
8              .1072        .1136        .1200        .1265        .1329
8              .1393        .1497        .1601        .1706        .1810
8              .1914        .2055        .2230        .2466        .2848
8              .6776        .7564        .7854        .8054        .8210
8              .8339        .8418        .8497        .8576        .8655
8              .8734        .8789        .8843        .8898        .8952
8              .9007        .9049        .9092        .9134        .9177
8              .9219        .9254        .9289        .9325        .9360
8              .9395        .9425        .9455        .9485        .9515
8              .9545        .9571        .9598        .9624        .9651
8              .9677        .9701        .9724        .9748        .9771
8              .9795        .9816        .9838        .9859        .9891
8              .9902        .9927        .9951        .9975       1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 5                   .2500
```

```
8                .0538        .0717        .0950        .1219        .4910
8                .6398        .7043        .7661        .8109        .8486
8                .8799        .9041        .9274        .9453        .9606
8                .9713        .9821        .9892        .9955       1.0000
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 6                    .5000

8                .0000        .0078        .0150        .0214        .0286
8                .0371        .0457        .0550        .0643        .0750
8                .0864        .0971        .1071        .1250        .1514
8                .1821        .2250        .3214        .4143        .4964
8                .5714        .6421        .6893        .7214        .7500
8                .7750        .7957        .8143        .8314        .8486
8                .8621        .8757        .8879        .9000        .9093
8                .9193        .9286        .9364        .9443        .9514
8                .9593        .9657        .9714        .9786        .9829
8                .9879        .9921        .9964       1.0000       1.0000
9 ENDTBL
```

STANDARD CONTROL INSTRUCTIONS

```
6 RUNOFF 1  15        6      1.7200    100.0000      .30001 0 0 1 0 1
6 REACH  3 114    6   5   2700.0000      .8000       .00000 0 0 0 0 0
6 RUNOFF 1  14        6      1.1600    100.0000      .25001 0 0 1 0 1
6 ADDHYD 4  14    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5  14    7   5
6 RUNOFF 1  16        6      2.2400    100.0000      .59001 0 0 1 0 1
6 ADDHYD 4 114    5 6 7                                  1 0 0 1 0 1
6 REACH  3 113    7   5   4300.0000      .8000       .00000 0 0 0 0 0
6 RUNOFF 1  13        6      1.3500    100.0000      .21001 0 0 1 0 1
6 ADDHYD 4  13    5 6 7                                  1 0 0 1 0 1
6 REACH  3 112    7   5   4600.0000      .8000       .00000 0 0 0 0 0
6 RUNOFF 1  12        6      1.4300    100.0000      .45001 0 0 1 0 1
6 ADDHYD 4  12    5 6 7                                  1 0 0 1 0 1
6 REACH  3 111    7   5   1800.0000      .8000       .00000 0 0 0 0 0
6 RUNOFF 1  11        6       .6300    100.0000      .31001 0 0 1 0 1
6 ADDHYD 4 111    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5 111    7   5
6 RUNOFF 1  17        6       .2100    100.0000      .23001 0 0 1 0 1
6 ADDHYD 4 117    5 6 7                                  1 1 0 1 0 1
6 SAVMOV 5 117    7   6
6 RESVOR 2      7 6   7   1967.0000                      1 1 0 1 0 1
6 REACH  3 102    7   5  38600.0000      .8000       .00001 0 0 1 0 1
6 RUNOFF 1   2        6      5.8700    100.0000     2.02001 0 0 1 0 1
6 ADDHYD 4 102    5 6 1                                  1 1 0 1 0 1
6 RUNOFF 1   5        6      5.5200    100.0000     1.19001 0 0 1 0 1
6 REACH  3 104    6   5  12500.0000      .7800       .00000 0 0 0 0 0
6 RUNOFF 1   4        6     13.1100    100.0000     2.17001 0 0 1 0 1
6 ADDHYD 4 104    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5 104    7   5
6 RUNOFF 1   6        6      7.1700    100.0000     1.80001 0 0 1 0 1
6 ADDHYD 4 106    5 6 7                                  1 1 0 1 0 1
6 REACH  3   3    7   5   4000.0000      .7500       .00001 0 0 1 0 1
6 RUNOFF 1   3        6      5.9200    100.0000     1.41001 0 0 1 0 1
6 ADDHYD 4   3    5 6 7                                  1 0 0 1 0 1
6 REACH  3 102    7   5   5500.0000      .7500       .00001 1 0 1 0 1
6 SAVMOV 5 102    1   6
6 ADDHYD 4      1 5 6 4                                  1 1 0 1 0 1
6 RESVOR 2      1 4   7   1568.2000                      1 1 0 1 0 1
  ENDATA
```

END OF LISTING

PASS= 1

EXECUTIVE CONTROL CARD 98 OPERATION INCREM, MAIN TIME INCREMENT= 1.00
EXECUTIVE CONTROL CARD 101 OPERATION COMPUT, FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 2.07 RAIN DURATION= 1.00 RAIN TABLE NO.= 4 SOIL CONDITION 2
ALTERNATE NO.= 3 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.72 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	4.592	(RUNOFF)
90.50	6.223	(RUNOFF)
102.50	10.046	(RUNOFF)
119.46	379.756	(RUNOFF)
126.50	19.636	(RUNOFF)
143.50	7.835	(RUNOFF)
150.50	5.268	(RUNOFF)
155.09	5.256	(RUNOFF)
159.55	4.114	(RUNOFF)
164.51	4.120	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1054 CFS-HRS= 2337.04 ACRE-FT= 193.13

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .09

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	3.098	(RUNOFF)
90.50	4.197	(RUNOFF)
102.50	6.775	(RUNOFF)
119.49	254.840	(RUNOFF)
121.50	54.765	(RUNOFF)
126.50	13.244	(RUNOFF)
143.50	5.283	(RUNOFF)
145.50	3.553	(RUNOFF)
150.50	3.553	(RUNOFF)
155.50	3.648	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1166 CFS-HRS= 1584.57 ACRE-FT= 130.95

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.56	6.254	(NULL)
75.50	7.690	(NULL)
90.53	10.418	(NULL)

119.50	685.272	(NULL)
143.50	13.093	(NULL)
150.53	8.818	(NULL)
155.25	8.800	(NULL)
159.62	6.886	(NULL)
164.56	6.895	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1203 CFS-HRS= 3940.93 ACRE-FT= 325.68

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.70	4.857	(RUNOFF)
75.50	5.976	(RUNOFF)
90.52	8.102	(RUNOFF)
102.52	13.080	(RUNOFF)
119.50	531.813	(RUNOFF)
142.50	9.834	(RUNOFF)
150.52	6.858	(RUNOFF)
155.38	6.849	(RUNOFF)
160.17	5.352	(RUNOFF)
164.70	5.355	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0483 CFS-HRS= 2961.05 ACRE-FT= 244.70

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.60	11.111	(NULL)
75.50	13.666	(NULL)
90.53	18.520	(NULL)
102.53	29.899	(NULL)
119.50	1217.085	(NULL)
142.50	22.475	(NULL)
150.53	15.675	(NULL)
155.34	15.649	(NULL)
159.81	12.234	(NULL)
164.61	12.249	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0893 CFS-HRS= 6903.50 ACRE-FT= 570.51

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .14

AREA= 1.35 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
90.50	4.885	(RUNOFF)
102.50	7.885	(RUNOFF)
119.34	295.155	(RUNOFF)
121.50	63.764	(RUNOFF)
126.50	15.413	(RUNOFF)
128.50	11.947	(RUNOFF)
143.50	6.149	(RUNOFF)
145.50	4.135	(RUNOFF)
150.50	4.135	(RUNOFF)
154.76	4.125	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1215 CFS-HRS= 1848.33 ACRE-FT= 152.75

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.69	14.030	(NULL)
75.50	17.271	(NULL)
90.60	23.391	(NULL)
102.60	37.770	(NULL)
119.55	1509.300	(NULL)
142.50	28.400	(NULL)
150.60	19.796	(NULL)
155.43	19.767	(NULL)
159.86	15.453	(NULL)
164.69	15.468	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1104 CFS-HRS= 8811.88 ACRE-FT= 728.21

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .15

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.56	3.104	(RUNOFF)
75.50	3.816	(RUNOFF)
90.50	5.174	(RUNOFF)
102.50	8.352	(RUNOFF)
119.48	323.615	(RUNOFF)
142.50	6.278	(RUNOFF)
150.50	4.379	(RUNOFF)
155.50	4.493	(RUNOFF)
159.86	3.417	(RUNOFF)
164.56	3.422	(RUNOFF)

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.78	17.114	(NULL)
75.52	21.083	(NULL)
90.65	28.547	(NULL)
102.65	46.104	(NULL)
119.58	1809.271	(NULL)
142.50	34.678	(NULL)
150.65	24.158	(NULL)
155.50	24.661	(NULL)
159.99	18.856	(NULL)
164.78	18.870	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1177 CFS-HRS= 10796.68 ACRE-FT= 892.24

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .06

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	1.682	(RUNOFF)
90.50	2.280	(RUNOFF)
102.50	3.690	(RUNOFF)
119.49	139.439	(RUNOFF)
126.50	7.192	(RUNOFF)
143.49	2.867	(RUNOFF)
150.50	1.929	(RUNOFF)
155.49	1.980	(RUNOFF)
159.56	1.507	(RUNOFF)
164.51	1.509	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1042 CFS-HRS= 855.54 ACRE-FT= 70.70

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.80	18.473	(NULL)
75.56	22.762	(NULL)
90.67	30.818	(NULL)
102.67	49.775	(NULL)
119.60	1938.596	(NULL)
142.50	37.443	(NULL)
150.67	26.079	(NULL)

164.80 20.368 (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1215 CFS-HRS= 11678.82 ACRE-FT= 965.14

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	.561	(RUNOFF)
90.50	.760	(RUNOFF)
102.50	1.227	(RUNOFF)
119.38	45.981	(RUNOFF)
121.50	9.917	(RUNOFF)
143.50	.956	(RUNOFF)
150.50	.643	(RUNOFF)
155.49	.660	(RUNOFF)
159.51	.503	(RUNOFF)
164.50	.503	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1187 CFS-HRS= 287.15 ACRE-FT= 23.73

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.79	18.929	(NULL)
75.56	23.323	(NULL)
90.66	31.577	(NULL)
102.66	51.001	(NULL)
119.60	1988.624	(NULL)
142.50	38.365	(NULL)
150.66	26.722	(NULL)
155.50	27.265	(NULL)
159.98	20.857	(NULL)
164.79	20.871	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	7.32	9.41	10.03	10.17	10.05	9.79	9.72	10.07	10 18
10.00	DISCHG	9.91	9.75	9.72	10.81	11.12	10.83	10.71	10.83	11.09	11 16
20.00	DISCHG	10.81	10.70	10.97	11.13	11.17	11.90	12.11	12.14	12.14	12 14
30.00	DISCHG	12.14	12.14	11.78	11.67	11.94	12.10	12.14	13.24	13.55	13 59
40.00	DISCHG	13.60	13.74	14.00	14.07	13.72	13.61	13.60	13.60	13.60	15 06
50.00	DISCHG	15.48	15.54	15.54	15.68	15.95	16.02	15.67	15.56	15.54	15 54
60.00	DISCHG	15.55	17.74	18.36	18.79	18.91	18.79	18.53	18.46	18.81	18 92
70.00	DISCHG	18.65	18.49	18.47	22.11	23.16	23.30	23.31	23.16	22.90	22 83
80.00	DISCHG	23.18	23.29	23.31	23.31	23.34	29.17	30.84	31.06	31.08	31 22
90.00	DISCHG	31.49	31.55	31.20	31.10	31.08	31.08	31.15	45.73	49.90	50 47
100.00	DISCHG	50.50	50.65	50.91	50.98	50.63	50.52	50.50	50.50	50.53	64 04
110.00	DISCHG	67.91	79.91	84.17	93.67	109.86	114.03	166.86	182.95	1184.09	1767 09
120.00	DISCHG	1886.46	756.63	429.57	217.13	152.61	128.97	104.16	97.96	81.41	76 52

140.00	DISCHG	38.36	38.36	38.36	38.36	38.33	29.58	27.07	26.39	26.25	26 37
150.00	DISCHG	26.63	26.70	26.35	26.24	26.50	26.67	26.68	21.95	20.59	20 74
160.00	DISCHG	20.86	20.74	20.47	20.40	20.75	20.86	20.60	20.43	20.39	17 83
170.00	DISCHG	17.10	17.00	17.00	17.14	17.40	17.47	17.12	17.01	17.00	17 00
180.00	DISCHG	16.99	15.17	14.64	14.57	14.57	14.57	14.57	14.57	14.57	14 57
190.00	DISCHG	14.57	14.57	14.56	13.10	12.68	12.97	13.09	12.97	12.70	12 63
200.00	DISCHG	12.98	13.09	12.83	12.66	12.63	11.89	11.68	11.32	11.19	11 31
210.00	DISCHG	11.58	11.64	11.30	11.19	11.45	11.61	11.65	10.56	10.24	10 54
220.00	DISCHG	10.66	10.54	10.28	10.21	14.14	15.35	9.61	6.17	5.46	10 47
230.00	DISCHG	11.93	11.79	11.68	11.66	11.65	11.65	12.01	12.12	11.26	6 48
240.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1214 CFS-HRS= 11966.06 ACRE-FT= 988.88

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.79	18.929	(NULL)
75.56	23.323	(NULL)
90.66	31.577	(NULL)
102.66	51.001	(NULL)
119.60	1988.624	(NULL)
142.50	38.365	(NULL)
150.66	26.722	(NULL)
155.50	27.265	(NULL)
159.98	20.857	(NULL)
164.79	20.871	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	7.32	9.41	10.03	10.17	10.05	9.79	9.72	10.07	10 18
10.00	DISCHG	9.91	9.75	9.72	10.81	11.12	10.83	10.71	10.83	11.09	11 16
20.00	DISCHG	10.81	10.70	10.97	11.13	11.17	11.90	12.11	12.14	12.14	12 14
30.00	DISCHG	12.14	12.14	11.78	11.67	11.94	12.10	12.14	13.24	13.55	13 59
40.00	DISCHG	13.60	13.74	14.00	14.07	13.72	13.61	13.60	13.60	13.60	15 06
50.00	DISCHG	15.48	15.54	15.54	15.68	15.95	16.02	15.67	15.56	15.54	15 54
60.00	DISCHG	15.55	17.74	18.34	18.79	18.91	18.79	18.53	18.46	18.81	18 92
70.00	DISCHG	18.65	18.49	18.47	22.11	23.16	23.30	23.31	23.16	22.90	22 83
80.00	DISCHG	23.18	23.29	23.31	23.31	23.34	29.17	30.84	31.06	31.08	31 22
90.00	DISCHG	31.49	31.55	31.20	31.10	31.08	31.08	31.15	45.73	49.90	50 47
100.00	DISCHG	50.50	50.65	50.91	50.98	50.63	50.52	50.50	50.50	50.53	64 04
110.00	DISCHG	67.91	79.91	84.17	93.67	109.86	114.03	166.86	182.95	1184.09	1767 09
120.00	DISCHG	1886.46	756.63	429.57	217.13	152.61	128.97	104.16	97.96	81.41	76 52
130.00	DISCHG	68.18	63.71	62.69	44.33	39.11	38.40	38.36	38.36	38.36	38 36
140.00	DISCHG	38.36	38.36	38.36	38.36	38.33	29.58	27.07	26.39	26.25	26 37
150.00	DISCHG	26.63	26.70	26.35	26.24	26.50	26.67	26.68	21.95	20.59	20 74
160.00	DISCHG	20.86	20.74	20.47	20.40	20.75	20.86	20.60	20.43	20.39	17 83
170.00	DISCHG	17.10	17.00	17.00	17.14	17.40	17.47	17.12	17.01	17.00	17 00
180.00	DISCHG	16.99	15.17	14.64	14.57	14.57	14.57	14.57	14.57	14.57	14 57
190.00	DISCHG	14.57	14.57	14.56	13.10	12.68	12.97	13.09	12.97	12.70	12 63

220.00	DISCHG	10.66	10.54	10.28	10.21	14.14	15.35	9.61	6.17	5.46	10 47
230.00	DISCHG	11.93	11.79	11.68	11.66	11.65	11.65	12.01	12.12	11.26	6 48
240.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1214 CFS-HRS= 11966.06 ACRE-FT= 988.88

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 39600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
65.57	18.838	(NULL)
70.14	18.850	(NULL)
77.28	23.271	(NULL)
91.96	31.500	(NULL)
103.97	50.923	(NULL)
120.87	1778.077	(NULL)
151.94	26.647	(NULL)
156.53	26.972	(NULL)
166.14	20.792	(NULL)
175.96	17.419	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1793 CFS-HRS= 12292.38 ACRE-FT= 1015.84

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.83	12.676	(RUNOFF)
76.85	15.628	(RUNOFF)
91.44	21.144	(RUNOFF)
103.46	34.192	(RUNOFF)
120.26	1096.883	(RUNOFF)
142.50	25.768	(RUNOFF)
151.42	17.884	(RUNOFF)
155.57	17.961	(RUNOFF)
160.64	14.012	(RUNOFF)
165.83	13.978	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0823 CFS-HRS= 7888.29 ACRE-FT= 651.89

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
65.37	31.497	(NULL)
70.02	31.521	(NULL)
77.11	38.891	(NULL)
91.80	52.629	(NULL)
103.81	85.100	(NULL)
120.67	2785.882	(NULL)

166.02 34.765 (NULL)
175.80 29.094 (NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 14.61

TIME											
.00	DISCHG	.00	1.70	9.07	13.94	16.02	16.76	16.78	16.49	16.37	16 68
10.00	DISCHG	16.91	16.70	16.42	16.55	17.60	18.29	18.20	17.99	18.10	18 41
20.00	DISCHG	18.53	18.23	18.00	18.21	18.49	18.79	19.56	20.06	20.23	20 28
30.00	DISCHG	20.29	20.29	20.24	19.87	19.62	19.83	20.12	20.50	21.64	22 38
40.00	DISCHG	22.64	22.71	22.93	23.27	23.40	23.09	22.85	22.76	22.74	23 08
50.00	DISCHG	24.54	25.51	25.86	25.95	26.17	26.52	26.65	26.34	26.10	26 01
60.00	DISCHG	25.99	26.50	28.70	30.18	31.05	31.46	31.41	31.10	30.98	31 29
70.00	DISCHG	31.52	31.30	31.03	31.76	35.39	37.80	38.67	38.89	38.75	38 42
80.00	DISCHG	38.29	38.60	38.84	38.93	38.99	40.37	46.19	50.09	51.47	51 85
90.00	DISCHG	52.13	52.49	52.62	52.32	52.07	51.98	52.02	55.43	70.12	79 78
100.00	DISCHG	83.23	84.15	84.57	84.96	85.09	84.78	84.54	84.45	84.46	87 61
110.00	DISCHG	101.16	111.26	126.36	137.21	153.04	174.93	194.37	252.14	348.69	1433 30
120.00	DISCHG	2518.03	2719.73	1720.95	977.58	540.54	328.89	241.15	192.04	168.55	145 82
130.00	DISCHG	132.28	119.59	110.02	101.92	82.38	70.01	65.63	64.47	64.19	64 14
140.00	DISCHG	64.13	64.13	64.13	64.13	64.10	62.04	53.27	47.40	44.98	44 15
150.00	DISCHG	44.11	44.39	44.51	44.20	43.97	44.18	44.44	43.45	38.75	35 63
160.00	DISCHG	34.86	34.84	34.68	34.35	34.23	34.54	34.76	34.55	34.26	33 54
170.00	DISCHG	30.93	29.23	28.62	28.46	28.62	28.96	29.08	28.78	28.53	28 44
180.00	DISCHG	28.41	27.98	26.15	24.93	24.50	24.39	24.36	24.35	24.35	24 35
190.00	DISCHG	24.35	24.35	24.34	24.00	22.54	21.60	21.61	21.79	21.68	21 37
200.00	DISCHG	21.24	21.55	21.78	21.56	21.28	20.98	20.21	19.69	19.16	18 84
210.00	DISCHG	18.92	19.22	19.35	19.04	18.81	19.02	19.30	19.17	18.11	17 43
220.00	DISCHG	17.52	17.72	17.62	17.31	17.75	21.72	24.22	18.93	12.80	11 28
230.00	DISCHG	15.55	18.70	19.50	19.53	19.50	19.49	19.54	19.90	19.80	18 24
240.00	DISCHG	16.03	9.75	7.64	7.35	6.64	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1407 CFS-HRS= 20183.98 ACRE-FT= 1668.00

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
64.58	11.965	(RUNOFF)
76.07	14.721	(RUNOFF)
90.83	19.928	(RUNOFF)
102.84	32.195	(RUNOFF)
119.71	1206.507	(RUNOFF)
142.50	24.231	(RUNOFF)
150.84	16.860	(RUNOFF)
155.51	17.141	(RUNOFF)
160.58	13.194	(RUNOFF)
165.38	13.176	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0718 CFS-HRS= 7380.59 ACRE-FT= 609.93

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= .45

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.91	28.291	(RUNOFF)
76.99	34.875	(RUNOFF)
91.56	47.206	(RUNOFF)
103.54	76.339	(RUNOFF)
120.36	2388.519	(RUNOFF)
142.50	57.548	(RUNOFF)
151.49	39.929	(RUNOFF)
155.59	40.053	(RUNOFF)
160.50	31.320	(RUNOFF)
165.91	31.203	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0831 CFS-HRS= 17624.99 ACRE-FT= 1456.53

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.89	40.218	(NULL)
76.87	49.592	(NULL)
91.47	67.097	(NULL)
103.46	108.508	(NULL)
120.29	3470.138	(NULL)
142.50	81.778	(NULL)
151.42	56.748	(NULL)
155.59	56.996	(NULL)
160.70	44.469	(NULL)
165.89	44.355	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0773 CFS-HRS= 24976.44 ACRE-FT= 2064.05

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.72	15.495	(RUNOFF)
76.68	19.112	(RUNOFF)
91.30	25.842	(RUNOFF)
103.30	41.776	(RUNOFF)
120.12	1401.241	(RUNOFF)
142.50	31.478	(RUNOFF)
151.29	21.858	(RUNOFF)
155.55	22.001	(RUNOFF)
160.70	17.108	(RUNOFF)
165.73	17.090	(RUNOFF)

[illegible] ON INCHES ON DRAINAGE AREA= [illegible] CFS-HRS= 9650.80 ACRE-FT= 797.54

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5.6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.84	55.711	(NULL)
76.82	68.702	(NULL)
91.42	92.937	(NULL)
103.42	150.282	(NULL)
120.24	4863.713	(NULL)
142.50	113.256	(NULL)
151.38	78.606	(NULL)
155.57	78.997	(NULL)
160.70	61.578	(NULL)
165.84	61.442	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	7.89	21.08	26.68	28.86	29.72	29.48	28.95	29.02	29 63
10.00	DISCHG	29.90	29.38	28.90	29.92	31.84	32.49	32.06	31.71	32.12	32 69
20.00	DISCHG	32.62	32.00	31.74	32.25	32.77	33.70	35.05	35.61	35.77	35 82
30.00	DISCHG	35.83	35.84	35.58	34.89	34.62	35.12	35.63	36.96	38.97	39 80
40.00	DISCHG	40.04	40.14	40.67	41.27	41.22	40.60	40.27	40.18	40.16	41 72
50.00	DISCHG	44.35	45.44	45.74	45.86	46.40	47.01	46.95	46.34	46.00	45 91
60.00	DISCHG	45.93	48.25	52.17	53.97	55.10	55.64	55.30	54.75	54.82	55 44
70.00	DISCHG	55.70	55.19	54.77	58.51	65.00	67.71	68.49	68.69	68.25	67 67
80.00	DISCHG	67.72	68.34	68.67	68.77	68.89	75.16	85.62	90.00	91.23	91 63
90.00	DISCHG	92.24	92.88	92.82	92.20	91.87	91.78	91.88	107.57	133.77	144 75
100.00	DISCHG	147.82	148.75	149.53	150.22	150.16	149.55	149.21	149.12	149.26	163 68
110.00	DISCHG	187.96	203.39	228.75	246.08	281.71	319.82	371.77	474.08	783.99	2950 65
120.00	DISCHG	4791.11	4150.94	2259.06	1380.59	819.68	529.03	399.47	321.38	284.74	247 58
130.00	DISCHG	228.35	207.20	191.37	167.06	132.90	118.82	114.86	113.69	113.34	113 25
140.00	DISCHG	113.24	113.24	113.24	113.24	113.13	103.74	88.01	81.29	78.78	77 83
150.00	DISCHG	78.04	78.56	78.49	77.87	77.61	78.12	78.52	73.63	65.16	61 79
160.00	DISCHG	61.43	61.55	61.07	60.49	60.55	61.17	61.43	60.92	60.37	57 49
170.00	DISCHG	52.86	50.95	50.40	50.26	50.72	51.31	51.26	50.63	50.30	50 21
180.00	DISCHG	50.16	48.19	44.92	43.54	43.16	43.05	43.01	43.00	43.00	43 00
190.00	DISCHG	43.00	43.00	42.98	41.42	38.80	37.85	38.21	38.53	38.12	37 55
200.00	DISCHG	37.62	38.23	38.50	37.98	37.47	36.54	35.19	34.47	33.65	33 19
210.00	DISCHG	33.56	34.12	34.06	33.44	33.18	33.69	34.17	33.15	31.22	30 58
220.00	DISCHG	31.01	31.36	30.95	30.39	33.04	40.53	42.72	31.21	20.51	22 68
230.00	DISCHG	30.91	34.28	34.60	34.46	34.43	34.42	34.68	35.35	33.36	30 07
240.00	DISCHG	33.24	29.87	27.76	24.05	14.80	16.66				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0800 CFS-HRS= 34632.79 ACRE-FT= 2862.05

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .16

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.96	55.658	(NULL)
76.97	68.657	(NULL)
91.60	92.877	(NULL)

142.50	113.254	(NULL)
151.54	78.559	(NULL)
155.59	78.819	(NULL)
160.60	61.566	(NULL)
165.96	61.390	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0781 CFS-HRS= 34601.36 ACRE-FT= 2859.46

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.22 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
64.70	12.820	(RUNOFF)
76.48	15.803	(RUNOFF)
91.02	21.357	(RUNOFF)
103.02	34.514	(RUNOFF)
119.86	1234.621	(RUNOFF)
142.50	25.989	(RUNOFF)
151.02	18.067	(RUNOFF)
155.52	18.285	(RUNOFF)
160.65	14.137	(RUNOFF)
165.54	14.130	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0828 CFS-HRS= 7957.44 ACRE-FT= 657.60

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.86	68.457	(NULL)
76.86	84.443	(NULL)
91.46	114.207	(NULL)
103.47	184.706	(NULL)
120.26	5809.376	(NULL)
142.50	139.243	(NULL)
151.39	96.594	(NULL)
155.57	97.100	(NULL)
160.62	75.702	(NULL)
165.86	75.505	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0791 CFS-HRS= 42561.45 ACRE-FT= 3517.28

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .22

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
65.37	68.267	(NULL)
70.02	68.370	(NULL)
77.10	84.367	(NULL)
91.71	114.129	(NULL)
[illegible]	184.617	(NULL)

151.63	96.534	(NULL)
155.60	96.799	(NULL)
166.02	75.418	(NULL)
175.69	63.032	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	7.53	21.33	30.52	34.60	36.19	36.27	35.77	35.69	36.23
10.00	DISCHG	36.64	36.27	35.71	36.53	38.48	39.65	39.53	39.12	39.39	39.99
20.00	DISCHG	40.09	39.55	39.13	39.51	40.10	41.15	42.62	43.55	43.91	44.02
30.00	DISCHG	44.05	44.06	43.81	43.13	42.68	43.04	43.62	45.05	47.21	48.60
40.00	DISCHG	49.12	49.31	49.84	50.52	50.66	50.12	49.64	49.44	49.39	50.87
50.00	DISCHG	53.61	55.42	56.11	56.34	56.88	57.58	57.71	57.17	56.69	56.49
60.00	DISCHG	56.46	58.68	62.78	65.64	67.32	68.20	68.07	67.51	67.41	67.96
70.00	DISCHG	68.37	67.99	67.48	70.93	77.67	82.14	83.86	84.36	84.03	83.40
80.00	DISCHG	83.28	83.82	84.30	84.50	84.65	90.66	101.63	108.85	111.63	112.49
90.00	DISCHG	113.21	113.96	114.10	113.56	113.09	112.88	112.94	127.92	155.36	173.45
100.00	DISCHG	180.39	182.49	183.58	184.43	184.59	184.06	183.58	183.38	183.46	197.28
110.00	DISCHG	222.67	244.46	272.75	296.06	335.31	379.41	441.12	548.36	873.44	2961.32
120.00	DISCHG	5208.49	5188.58	3422.41	2045.68	1213.57	763.78	541.28	425.10	363.94	317.64
130.00	DISCHG	288.27	261.85	241.23	212.87	175.37	151.87	142.95	140.27	139.50	139.28
140.00	DISCHG	139.23	139.23	139.23	139.23	139.12	130.13	113.66	102.68	97.88	96.07
150.00	DISCHG	95.93	96.41	96.49	95.94	95.53	95.90	96.39	91.85	83.05	77.37
160.00	DISCHG	75.76	75.64	75.22	74.58	74.46	75.00	75.42	75.04	74.43	71.50
170.00	DISCHG	66.60	63.42	62.20	61.85	62.23	62.87	63.00	62.46	61.98	61.77
180.00	DISCHG	61.68	59.79	56.36	54.10	53.23	52.97	52.90	52.88	52.87	52.87
190.00	DISCHG	52.87	52.87	52.85	51.35	48.61	46.95	46.90	47.26	46.98	46.37
200.00	DISCHG	46.26	46.81	47.22	46.84	46.26	45.21	43.74	42.66	41.65	40.99
210.00	DISCHG	41.18	41.75	41.86	41.31	40.90	41.27	41.83	41.01	39.06	37.88
220.00	DISCHG	38.02	38.42	38.16	37.56	39.97	47.32	51.52	41.73	29.16	27.91
230.00	DISCHG	35.21	40.74	42.32	42.41	42.34	42.32	42.56	43.23	41.39	38.72
240.00	DISCHG	40.02	38.03	36.34	27.32	18.30	16.37	5.92	.67	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0759 CFS-HRS= 42495.47 ACRE-FT= 3511.83

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
65.37	99.764	1571.21
70.02	99.891	1571.23
77.10	123.257	1574.87
91.75	166.756	1583.30
103.76	269.716	1583.47
120.56	8191.367	1587.23
151.69	141.051	1578.11
155.62	141.285	1578.16
166.02	110.183	1572.74
175.73	92.124	1570.12

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	9.23	30.40	44.46	50.63	52.95	53.05	52.26	52.06	52.91

20.00	DISCHG	58.62	57.77	57.13	57.72	58.59	59.94	62.18	63.61	64.14	64 30
30.00	DISCHG	64.34	64.35	64.04	63.00	62.30	62.87	63.74	65.55	68.85	70 97
40.00	DISCHG	71.76	72.02	72.77	73.80	74.06	73.21	72.49	72.20	72.13	73 95
50.00	DISCHG	78.15	80.93	81.96	82.29	83.06	84.09	84.35	83.51	82.79	82 49
60.00	DISCHG	82.45	85.18	91.47	95.82	98.37	99.66	99.47	98.61	98.39	99 25
70.00	DISCHG	99.89	99.30	98.51	102.69	113.06	119.94	122.53	123.25	122.77	121 82
80.00	DISCHG	121.56	122.41	123.14	123.43	123.64	131.02	147.82	158.95	163.10	164 33
90.00	DISCHG	165.35	166.44	166.72	165.88	165.16	164.86	164.96	183.34	225.48	253 24
100.00	DISCHG	263.62	266.64	268.15	269.38	269.68	268.84	268.12	267.83	267.92	284 89
110.00	DISCHG	323.83	355.72	399.11	433.27	488.35	554.34	635.49	800.50	1222.12	4394 62
120.00	DISCHG	7726.52	7908.31	5143.35	3023.26	1754.11	1092.67	782.44	617.15	532.49	463 46
130.00	DISCHG	420.54	381.43	351.25	314.79	257.76	221.88	208.58	204.73	203.69	203 41
140.00	DISCHG	203.36	203.35	203.35	203.35	203.22	192.18	166.93	150.08	142.86	140 22
150.00	DISCHG	140.04	140.80	141.00	140.14	139.50	140.09	140.83	135.30	121.81	113 00
160.00	DISCHG	110.62	110.48	109.90	108.93	108.69	109.54	110.18	109.59	108.69	105 04
170.00	DISCHG	97.53	92.64	90.82	90.31	90.86	91.83	92.08	91.23	90.51	90 21
180.00	DISCHG	90.09	87.77	82.51	79.03	77.73	77.36	77.26	77.23	77.22	77 22
190.00	DISCHG	77.22	77.22	77.20	75.36	71.16	68.55	68.51	69.05	68.65	67 73
200.00	DISCHG	67.51	68.36	69.00	68.41	67.54	66.19	63.95	62.34	60.81	59 82
210.00	DISCHG	60.09	60.98	61.20	60.35	59.71	60.29	61.13	60.18	57.17	55 31
220.00	DISCHG	55.53	56.14	55.78	54.87	57.71	69.04	75.73	60.66	41.96	39 09
230.00	DISCHG	50.76	59.44	61.82	61.94	61.85	61.80	62.10	63.14	61.19	56 97
240.00	DISCHG	56.06	47.78	43.98	34.66	24.94	16.37	5.92	.67	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0963 CFS-HRS= 62678.35 ACRE-FT= 5179.74

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
146.42	159.468	1582.19

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	.17	.88	2.21	3.86	5.61	7.34	8.99	10.56	12 08
10.00	DISCHG	13.58	15.03	16.39	17.71	19.06	20.44	21.80	23.10	24.34	25 57
20.00	DISCHG	26.76	27.91	28.99	30.02	31.05	32.07	33.13	34.21	35.29	36 35
30.00	DISCHG	37.36	38.35	39.29	40.17	40.99	41.78	42.56	43.36	44.23	45 17
40.00	DISCHG	46.12	47.06	47.98	48.90	49.81	50.68	51.49	52.25	52.97	53 70
50.00	DISCHG	54.52	55.43	56.38	57.31	58.24	59.16	60.07	60.94	61.75	62 51
60.00	DISCHG	63.24	63.99	64.87	65.92	67.06	68.22	69.36	70.44	71.46	72 46
70.00	DISCHG	73.45	74.40	75.29	76.21	77.37	78.79	80.34	81.89	83.38	84 80
80.00	DISCHG	86.14	87.45	88.74	89.99	91.22	92.05	92.22	92.44	92.69	92 96
90.00	DISCHG	93.21	93.47	93.73	94.00	94.25	94.51	94.76	95.05	95.44	95 96
100.00	DISCHG	96.55	97.16	97.77	98.39	99.01	99.62	100.23	100.84	101.44	102 07
110.00	DISCHG	102.80	103.66	104.65	105.77	106.78	107.89	109.20	110.83	113.25	120 00
120.00	DISCHG	130.69	142.23	149.01	152.79	154.87	156.05	156.77	157.28	157.67	157 98
130.00	DISCHG	158.25	158.47	158.67	158.83	158.95	159.02	159.07	159.12	159.16	159 20
140.00	DISCHG	159.25	159.29	159.33	159.37	159.41	159.45	159.47	159.47	159.45	159 44
150.00	DISCHG	159.42	159.40	159.38	159.37	159.35	159.33	159.31	159.29	159.26	159 22
160.00	DISCHG	159.18	159.13	159.09	159.04	158.99	158.94	158.90	158.85	158.81	158 76
170.00	DISCHG	158.71	158.65	158.58	158.52	158.46	158.40	158.33	158.27	158.21	158 15
180.00	DISCHG	158.08	158.02	157.95	157.88	157.81	157.73	157.66	157.58	157.51	157 43
190.00	DISCHG	157.36	157.28	157.21	157.13	157.06	156.97	156.89	156.81	156.73	156 65
200.00	DISCHG	156.56	156.48	156.40	156.32	156.24	156.15	156.07	155.98	155.89	155 81
[illegible]	[illegible]	155.72	155.63	155.54	155.45	155.36	155.27	155.19	155.10	155.01	154 92

230.00	DISCHG	153.91	153.82	153.74	153.65	153.57	153.48	153.39	153.31	153.23	153 14
240.00	DISCHG	153.05	152.95	152.85	152.75	152.64	152.51	152.38	152.24	152.10	151 96
250.00	DISCHG	151.82	151.68	151.54	151.40	151.26	151.11	150.97	150.83	150.69	150 55
260.00	DISCHG	150.41	150.27	150.13	149.99	149.83	149.68	149.52	149.36	149.20	149 04
270.00	DISCHG	148.88	148.72	148.57	148.41	148.25	148.09	147.94	147.78	147.62	147 47
280.00	DISCHG	147.31	147.15	147.00	146.84	146.68	146.53	146.37	146.22	146.06	145 91
290.00	DISCHG	145.75	145.60	145.44	145.29	145.13	144.98	144.83	144.67	144.52	144 36

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1748 CFS-HRS= 35125.02 ACRE-FT= 2902.73

ENDCMP

CHANGES TO STANDARD CONTROL LIST FOLLOW
EXECUTIVE CONTROL CARD 102A OPERATION ENDJOB. XSECTN/STRUCT= 0/ 0

```
ERROR IN MAIN PROGRAM AT STATEMENT NUMBER    410
CURRENT EXECUTIVE CONTROL CARD FOLLOWS
7 ENDJOB 2    0 0    0 0          .0000         .0000         .00000 0 0 0 0 0
LAST CARD READ INTO BUF1 =
7 ENDJOB 2    0 0    0 0          .0000         .0000         .00000 0 0 0 0 0
LAST CARD READ INTO BUF2 =
0 ENDATA 0    0 0 0 0 0          .0000         .0000         .00000 0 0 0 0 0
UNRECOVERABLE ERROR.  CALLING EXIT.
```

SUMMARY TABLE 1

ALT	STORM	ID	DA SQ-MI.	RAIN TBLE	ARC	DELTA-T HRS.	TZERO HRS.	PRECIP IN.	PRECIP DURATION	PEAK-Q CFS	PEAK-TIME	PEAK-ELEV	RUNOFF IN.	CSM
3	1	15	1.72	4	2	1.00	.00	2.07	237.60	379.76	119.46	.00	2.11	220.79
3	1	14	1.16	4	2	1.00	.00	2.07	237.60	254.84	119.49	.00	2.12	219.69
3	1	14	2.88	4	2	1.00	.00	2.07	237.60	685.27	119.50	.00	2.12	237.94
3	1	16	2.24	4	2	1.00	.00	2.07	237.60	531.81	119.50	.00	2.05	237.42
3	1	114	5.12	4	2	1.00	.00	2.07	237.60	1217.08	119.50	.00	2.09	237.71
3	1	13	1.35	4	2	1.00	.00	2.07	237.60	295.16	119.34	.00	2.12	218.63
3	1	13	6.47	4	2	1.00	.00	2.07	237.60	1509.30	119.55	.00	2.11	233.28
3	1	12	1.43	4	2	1.00	.00	2.07	237.60	323.61	119.48	.00	2.07	226.30
3	1	12	7.90	4	2	1.00	.00	2.07	237.60	1809.27	119.58	.00	2.12	229.02
3	1	11	.63	4	2	1.00	.00	2.07	237.60	139.44	119.49	.00	2.10	221.33
3	1	111	8.53	4	2	1.00	.00	2.07	237.60	1938.60	119.60	.00	2.12	227.27
3	1	17	.21	4	2	1.00	.00	2.07	237.60	45.98	119.38	.00	2.12	218.96
3	1	117	8.74	4	2	1.00	.00	2.07	237.60	1988.62	119.60	.00	2.12	227.53
3	1	-7	8.74	4	2	1.00	.00	2.07	237.60	1988.62	119.60	.00	2.12	227.53
3	1	102	8.74	4	2	1.00	.00	2.07	237.60	1778.08	120.87	.00	2.18	203.44
3	1	2	5.87	4	2	1.00	.00	2.07	237.60	1096.88	120.26	.00	2.08	186.86
3	1	102	14.61	4	2	1.00	.00	2.07	237.60	2785.88	120.67	.00	2.14	190.68
3	1	5	5.52	4	2	1.00	.00	2.07	237.60	1206.51	119.71	.00	2.07	218.57
3	1	4	13.11	4	2	1.00	.00	2.07	237.60	2388.52	120.36	.00	2.08	182.19
3	1	104	18.63	4	2	1.00	.00	2.07	237.60	3470.14	120.29	.00	2.08	186.27
3	1	6	7.17	4	2	1.00	.00	2.07	237.60	1401.24	120.12	.00	2.09	195.43
3	1	106	25.80	4	2	1.00	.00	2.07	237.60	4863.71	120.24	.00	2.08	188.52
3	1	3	25.80	4	2	1.00	.00	2.07	237.60	4649.08	120.39	.00	2.08	180.20
3	1	3	5.92	4	2	1.00	.00	2.07	237.60	1234.62	119.86	.00	2.08	208.55
3	1	3	31.72	4	2	1.00	.00	2.07	237.60	5809.38	120.26	.00	2.08	183.15
3	1	102	31.72	4	2	1.00	.00	2.07	237.60	5482.01	120.49	.00	2.08	172.83
3	1	-1	46.33	4	2	1.00	.00	2.07	237.60	8191.37	120.56	~~1587.23~~	2.10	176.80
3	1	-1	46.33	4	2	1.00	.00	2.07	237.60	159.47	146.42	1582.19	1.17	3.44

SUMMARY TABLE 3

	DISCHARGE,CFS									
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q1
XSEC/STRUC NO. -7 ALTERNATE 3	1988.62	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. -1 ALTERNATE 3	159.47	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 2 ALTERNATE 3	1096.88	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 3 ALTERNATE 3	5809.38	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 4 ALTERNATE 3	2388.52	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 5 ALTERNATE 3	1206.51	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 6 ALTERNATE 3	1401.24	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 11 ALTERNATE 3	139.44	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 12 ALTERNATE 3	1809.27	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 13 ALTERNATE 3	1509.30	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 14 ALTERNATE 3	685.27	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 15 ALTERNATE 3	379.76	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 16 ALTERNATE 3	531.81	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 17 ALTERNATE 3	45.98	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO.102 ALTERNATE 3	5482.01	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO.104 ALTERNATE 3	3470.14	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO.106										

XSEC/STRUC NO.111										
ALTERNATE	3	1938.60	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO.114										
ALTERNATE	3	1217.08	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO.117										
ALTERNATE	3	1988.62	.00	.00	.00	.00	.00	.00	.00	.00	00

ENDJOB CARD ENCOUNTERED. END OF JOB.

```
END OF  1 JOBS IN THIS RUN

@END
@END IGNORED - IN CONTROL MODE

@FIN
```

RUNID: SCS04M ACCT: 1604000101 PROJECT: SCS04

***** DISPLAYED LOG ENTRY/RESOURCE UTILIZATION SECTION*****

TIME	CPU	IO	CCER	SIZE	QUALIFIER	FILENAME	PROGRAM	VERSION
00:00:36.020	00:00:04.166	00:00:07.539	00:00:07.102	58K	SCS76	ABS	TR20	CONVEX
11:49:11	-1020U FIN							
00:00:00.617	00:00:00.000	00:00:00.351	00:00:05.522	3K	RESOURCES USED IN CONTROL MODE			
00:00:36.638	00:00:04.166	00:00:07.891	00:00:12.625	46K	SUMMARY			

IMAGES READ: 183 PAGES: 29

START: 11:48:44 SEP 26,1985 FIN: 11:49:11 SEP 26,1985

***** COST SECTION *****

CHARGES BASED ON BATCH RUN AT L PRIORITY

RT ($000.61/MIN)	:$000000.37
CPU ($001.26/MIN)	:$000000.08
IO ($000.67/MIN)	:$000000.08
CCER($001.26/MIN)	:$000000.26

ESTIMATED TOTAL COST:	$000000.79
	==========

1234 ●9012345678901234567890123456789012345678901234567● 34567890123456789012345678901234567890123456789012● 890**SEQ NO.

* * * * * * SPERRY 1100/80A COMPUTER SYSTEM * LEVEL 38R5 * SITE: FCCC-B * CMS 1100 LEVEL FCCC3055 * * * * *

-POWERLINE DAM ANALYSIS, SEPT 1985 EKS WASH

TR-20 HYDROLOGY

WILLOW WASH - POWERLINE DAM ANALYSIS

1. REV ALT #1, STORM #1 ; PSH FOR UNCONTROLLED PEAK D.A=37.3SM
2. REV ALT #1, STORM #1 ; PSH FOR TOT. PEAK D/S = 46.33 SM W/ U.C. D.A.

PASS= 2

ECUTIVE CONTR[illegible] CARD 101 OPERATION COMPUT, FROM XSECTN/S[illegible]UCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTIN[illegible]IME= .00 RAIN DEPTH= 2.07 RAIN DURATION=[illegible]00 RAIN TABLE NO.= 4 SOIL CONDITION 2
ALTERNA NO.= 2 STORM NO.= 1

BROUTINE RUNOFF CROSS SECTION 15
AREA= 1.72 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	4.592	(RUNOFF)
90.50	6.223	(RUNOFF)
102.50	10.046	(RUNOFF)
119.46	379.756	(RUNOFF)
126.50	19.636	(RUNOFF)
143.50	7.835	(RUNOFF)
150.50	5.268	(RUNOFF)
155.09	5.256	(RUNOFF)
159.55	4.114	(RUNOFF)
164.51	4.120	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1054 CFS-HRS= 2337.04 ACRE-FT= 193.13

BROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .09

BROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	3.098	(RUNOFF)
90.50	4.197	(RUNOFF)
102.50	6.775	(RUNOFF)
119.49	254.840	(RUNOFF)
121.50	54.765	(RUNOFF)
126.50	13.244	(RUNOFF)
143.50	5.283	(RUNOFF)
145.50	3.553	(RUNOFF)
150.50	3.553	(RUNOFF)
155.50	3.648	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1166 CFS-HRS= 1584.57 ACRE-FT= 130.95

BROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.56	6.254	(NULL)
75.50	7.690	(NULL)
90.53	10.418	(NULL)
102.53	16.818	(NULL)
119.50	685.272	(NULL)

CUTIVE CONTROL CARD 101 OPERATION COMPUT, FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTIN[illegible]ME= .00 RAIN DEPTH= 2.07 RAIN DURATION= [illegible]0 RAIN TABLE NO.= 4 SOIL CONDITION 2
ALTERNA[illegible]O.= 2 STORM NO.= 1

ROUTINE RUNOFF CROSS SECTION 15
AREA= 1.72 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	4.592	(RUNOFF)
90.50	6.223	(RUNOFF)
102.50	10.046	(RUNOFF)
119.46	379.756	(RUNOFF)
126.50	19.636	(RUNOFF)
143.50	7.835	(RUNOFF)
150.50	5.268	(RUNOFF)
155.09	5.256	(RUNOFF)
159.55	4.114	(RUNOFF)
164.51	4.120	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1054 CFS-HRS= 2337.04 ACRE-FT= 193.13

ROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .09

ROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	3.098	(RUNOFF)
90.50	4.197	(RUNOFF)
102.50	6.775	(RUNOFF)
119.49	254.040	(RUNOFF)
121.50	54.765	(RUNOFF)
126.50	13.244	(RUNOFF)
143.50	5.283	(RUNOFF)
145.50	3.553	(RUNOFF)
150.50	3.553	(RUNOFF)
155.50	3.648	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1166 CFS-HRS= 1584.57 ACRE-FT= 130.95

ROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.56	6.254	(NULL)
75.50	7.690	(NULL)
90.53	10.418	(NULL)
102.53	16.818	(NULL)
119.50	685.272	(NULL)

143.50	13.093	(NULL)
0.53	8.818	(NULL)
.25	8.800	(NULL)
9.62	6.886	(NULL)
164.56	6.895	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1203 CFS-HRS= 3940.93 ACRE-FT= 325.68

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.70	4.857	(RUNOFF)
75.50	5.976	(RUNOFF)
90.52	8.102	(RUNOFF)
102.52	13.080	(RUNOFF)
119.50	531.813	(RUNOFF)
142.50	9.834	(RUNOFF)
150.52	6.858	(RUNOFF)
155.38	6.849	(RUNOFF)
160.17	5.352	(RUNOFF)
164.70	5.355	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0483 CFS-HRS= 2961.05 ACRE-FT= 244.70

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.60	11.111	(NULL)
75.50	13.666	(NULL)
90.53	18.520	(NULL)
102.53	29.899	(NULL)
119.50	1217.085	(NULL)
142.50	22.475	(NULL)
150.53	15.675	(NULL)
155.34	15.649	(NULL)
159.81	12.234	(NULL)
164.61	12.249	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0893 CFS-HRS= 6903.50 ACRE-FT= 570.51

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .14

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
[illegible].50	4.885	(RUNOFF)
[illegible].50	7.885	(RUNOFF)
[illegible].34	295.155	(RUNOFF)
121.50	63.764	(RUNOFF)
126.50	15.413	(RUNOFF)
128.50	11.947	(RUNOFF)
143.50	6.149	(RUNOFF)
145.50	4.135	(RUNOFF)
150.50	4.135	(RUNOFF)
154.76	4.125	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1215 CFS-HRS= 1848.33 ACRE-FT= 152.75

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.69	14.030	(NULL)
75.50	17.271	(NULL)
90.60	23.391	(NULL)
102.60	37.770	(NULL)
119.55	1509.300	(NULL)
142.50	28.400	(NULL)
150.60	19.796	(NULL)
155.43	19.767	(NULL)
159.86	15.453	(NULL)
164.69	15.468	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1104 CFS-HRS= 8811.88 ACRE-FT= 728.21

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .15

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.56	3.104	(RUNOFF)
75.50	3.816	(RUNOFF)
90.50	5.174	(RUNOFF)
102.50	8.352	(RUNOFF)
119.48	323.615	(RUNOFF)
142.50	6.278	(RUNOFF)
150.50	4.379	(RUNOFF)
155.50	4.493	(RUNOFF)
159.86	3.417	(RUNOFF)
164.56	3.422	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0715 CFS-HRS= 1911.71 ACRE-FT= 157.98

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

P. TIMES	PEAK DISCHARGES	EAK ELEVATIONS
68.78	17.114	(NULL)
75.52	21.083	(NULL)
90.65	28.547	(NULL)
102.65	46.104	(NULL)
119.58	1909.271	(NULL)
142.50	34.678	(NULL)
150.65	24.158	(NULL)
155.50	24.661	(NULL)
159.99	18.856	(NULL)
164.78	18.870	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1177 CFS-HRS= 10796.68 ACRE-FT= 892.24

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1000.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .06

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	1.682	(RUNOFF)
90.50	2.280	(RUNOFF)
102.50	3.680	(RUNOFF)
119.49	139.439	(RUNOFF)
126.50	7.192	(RUNOFF)
143.49	2.867	(RUNOFF)
150.50	1.929	(RUNOFF)
155.49	1.980	(RUNOFF)
159.56	1.507	(RUNOFF)
164.51	1.509	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1042 CFS-HRS= 855.54 ACRE-FT= 70.70

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.80	18.473	(NULL)
75.56	22.762	(NULL)
90.67	30.818	(NULL)
102.67	49.775	(NULL)
119.60	1938.596	(NULL)
142.50	37.443	(NULL)
150.67	26.079	(NULL)
155.50	26.605	(NULL)
160.00	20.355	(NULL)
164.80	20.368	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1215 CFS-HRS= 11678.82 ACRE-FT= 965.14

SUBROUTINE SAVE CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
75.50	.561	(RUNOFF)
90.50	.760	(RUNOFF)
102.50	1.227	(RUNOFF)
119.38	45.981	(RUNOFF)
121.50	9.917	(RUNOFF)
143.50	.956	(RUNOFF)
150.50	.643	(RUNOFF)
155.49	.660	(RUNOFF)
159.51	.503	(RUNOFF)
164.50	.503	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1187 CFS-HRS= 287.15 ACRE-FT= 23.73

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
68.79	18.929	(NULL)
75.56	23.323	(NULL)
90.66	31.577	(NULL)
102.66	51.001	(NULL)
119.60	1988.624	(NULL)
142.50	38.365	(NULL)
150.66	26.722	(NULL)
155.50	27.265	(NULL)
159.98	20.857	(NULL)
164.79	20.871	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	7.32	9.41	10.03	10.17	10.05	9.79	9.72	10.07	10 18
10.00	DISCHG	9.91	9.75	9.72	10.81	11.12	10.83	10.71	10.83	11.09	11 16
20.00	DISCHG	10.81	10.70	10.97	11.13	11.17	11.90	12.11	12.14	12.14	12 14
30.00	DISCHG	12.14	12.14	11.78	11.67	11.94	12.10	12.14	13.24	13.55	13 59
40.00	DISCHG	13.60	13.74	14.00	14.07	13.72	13.61	13.60	13.60	13.60	15 06
50.00	DISCHG	15.48	15.54	15.54	15.68	15.95	16.02	15.67	15.56	15.54	15 54
60.00	DISCHG	15.55	17.74	18.36	18.79	18.91	18.79	18.53	18.46	18.81	18 92
70.00	DISCHG	18.65	18.49	18.47	22.11	23.16	23.30	23.31	23.16	22.90	22 83
80.00	DISCHG	23.18	23.29	23.31	23.31	23.34	29.17	30.84	31.06	31.08	31 22
90.00	DISCHG	31.49	31.55	31.20	31.10	31.08	31.08	31.15	45.73	49.90	50 47
100.00	DISCHG	50.50	50.65	50.91	50.98	50.63	50.52	50.50	50.50	50.53	64 04
110.00	DISCHG	67.91	79.91	84.17	93.67	109.86	114.03	166.86	182.95	1184.09	1767 09
120.00	DISCHG	1886.46	756.63	429.57	217.13	152.61	128.97	104.16	97.96	81.41	76 52
130.00	DISCHG	68.18	63.71	62.69	44.33	39.11	38.40	38.36	38.36	38.36	38 36
140.00	DISCHG	38.36	38.36	38.36	38.36	38.33	29.58	27.07	26.39	26.25	26 37
150.00	DISCHG	26.63	26.70	26.35	26.24	26.50	26.67	26.68	21.95	20.59	20 74

160.00	DISCHG	20.86	20.74	20.47	20.40	20.75	20.86	20.60	20.43	20.39	17 83
170.00	DIS	17.10	17.00	17.00	17.14	17.4	17.47	17.12	17.01	17.00	17 00
180.00	DI	16.99	15.17	14.64	14.57	14.[illegible]	14.57	14.57	14.57	14.57	14 57
190.00	D HG	14.57	14.57	14.56	13.10	12.	12.97	13.09	12.97	12.70	12 63
200.00	DISCHG	12.98	13.09	12.83	12.66	12.63	11.89	11.68	11.32	11.19	11 31
210.00	DISCHG	11.58	11.64	11.30	11.19	11.45	11.61	11.65	10.56	10.24	10 54
220.00	DISCHG	10.66	10.54	10.28	10.21	14.14	15.35	9.61	6.17	5.46	10 47
230.00	DISCHG	11.93	11.79	11.68	11.66	11.65	11.65	12.01	12.12	11.26	6 48
240.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1214 CFS-HRS= 11966.06 ACRE-FT= 988.88

UBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

UBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
126.35	102.759	1976.58

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.29	.92	1.61	2.28	2.89	3.44	3.94	4.40	4 85
10.00	DISCHG	5.26	5.62	5.94	6.28	6.65	6.99	7.28	7.56	7.82	8 08
20.00	DISCHG	8.31	8.50	8.69	8.87	9.05	9.24	9.46	9.67	9.86	10 04
30.00	DISCHG	10.21	10.36	10.48	10.58	10.68	10.78	10.89	11.03	11.21	11 40
40.00	DISCHG	11.57	11.74	11.90	12.07	12.21	12.33	12.45	12.52	12.60	12 74
50.00	DISCHG	12.94	13.14	13.33	13.51	13.69	13.87	14.02	14.15	14.26	14 36
60.00	DISCHG	14.45	14.62	14.89	15.18	15.47	15.73	15.96	16.29	16.62	16 94
70.00	DISCHG	17.20	17.39	17.55	17.94	18.60	19.25	19.83	20.31	20.69	21 00
80.00	DISCHG	21.28	21.56	21.81	22.02	22.20	22.78	23.80	24.81	25.69	26 46
90.00	DISCHG	27.16	27.77	28.28	28.69	29.03	29.32	29.57	30.82	33.23	35 62
100.00	DISCHG	37.72	39.54	41.13	42.52	43.69	44.66	45.49	46.25	47.01	48 86
110.00	DISCHG	51.93	55.87	60.56	65.65	72.13	79.27	87.10	87.57	89.99	94 26
120.00	DISCHG	98.36	101.06	102.05	102.49	102.65	102.73	102.76	102.75	102.73	102 68
130.00	DISCHG	102.62	102.55	102.47	102.37	102.25	102.12	102.00	101.87	101.74	101 61
140.00	DISCHG	101.49	101.36	101.24	101.11	100.99	100.85	100.71	100.56	100.41	100 26
150.00	DISCHG	100.12	99.96	99.79	99.61	99.44	99.27	99.10	98.92	98.74	98 55
160.00	DISCHG	98.37	98.18	98.00	97.81	97.63	97.45	97.27	97.09	96.90	96 72
170.00	DISCHG	96.53	96.34	96.16	95.97	95.78	95.60	95.41	95.22	95.04	94 85
180.00	DISCHG	94.67	94.48	94.30	94.11	93.90	93.66	93.43	93.19	92.96	92 73
190.00	DISCHG	92.50	92.27	92.04	91.81	91.57	91.34	91.11	90.84	90.54	90 24
200.00	DISCHG	89.94	89.64	89.35	89.05	88.76	88.47	88.17	87.83	87.41	87 00
210.00	DISCHG	73.57	62.45	53.31	45.82	40.94	36.78	33.23	30.10	27.31	24 92
220.00	DISCHG	22.90	21.16	19.64	18.31	17.44	17.06	16.41	15.56	14.80	14 26
230.00	DISCHG	14.02	13.85	13.69	13.53	13.38	13.24	13.13	13.05	12.94	12 62
240.00	DISCHG	11.89	10.96	10.10	9.31	8.58	7.90	7.28	6.71	6.19	5 70
250.00	DISCHG	5.25	4.84	4.46	4.11	3.79	3.49	3.22	2.97	2.73	2 52
260.00	DISCHG	2.32	2.14	1.97	1.82	1.67	1.54	1.42	1.31	1.21	1 11
270.00	DISCHG	1.03	.95	.87	.80	.74	.68	.63	.58	.53	49
280.00	DISCHG	.45	.42	.38	.35	.33	.30	.28	.26	.24	22
290.00	DISCHG	.20	.18	.17	.16	.14	.13	.12	.11	.10	10

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1654 CFS-HRS= 12214.00 ACRE-FT= 1009.36

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.26

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
128.07	102.751	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1653 CFS-HRS= 12213.33 ACRE-FT= 1009.31

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.83	12.676	(RUNOFF)
76.85	15.628	(RUNOFF)
91.44	21.144	(RUNOFF)
103.46	34.192	(RUNOFF)
120.26	1096.883	(RUNOFF)
142.50	25.768	(RUNOFF)
151.42	17.884	(RUNOFF)
155.57	17.961	(RUNOFF)
160.64	14.012	(RUNOFF)
165.83	13.978	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0823 CFS-HRS= 7888.29 ACRE-FT= 651.89

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
32.33	18.382	(NULL)
120.27	1190.133	(NULL)
225.34	27.197	(NULL)
231.22	21.969	(NULL)
236.58	21.273	(NULL)
239.81	20.305	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 14.61

TIME											
.00	DISCHG	.00	1.70	4.96	6.66	7.82	8.69	9.27	9.74	10.27	10 90
10.00	DISCHG	11.42	11.73	12.01	12.57	13.34	13.85	14.10	14.34	14.72	15 12
20.00	DISCHG	15.37	15.47	15.62	15.93	16.23	16.61	17.12	17.45	17.70	17 91
30.00	DISCHG	18.10	18.27	18.37	18.35	18.40	18.62	18.83	19.23	19.82	20 17
40.00	DISCHG	20.41	20.61	20.90	21.21	21.37	21.37	21.43	21.52	21.61	22 04
50.00	DISCHG	22.75	23.17	23.44	23.66	23.97	24.29	24.46	24.48	24.55	24 64
60.00	DISCHG	24.75	25.35	26.41	27.03	27.57	27.98	28.18	28.30	28.60	29 07
70.00	DISCHG	29.45	29.61	29.74	30.73	32.54	33.68	34.49	35.15	35.58	35 88
80.00	DISCHG	36.23	36.68	37.04	37.32	37.59	39.14	41.96	43.76	45.04	46 06
90.00	DISCHG	47.04	47.91	48.56	48.98	49.37	49.72	50.10	53.74	60.72	64 97
100.00	DISCHG	68.00	70.44	72.58	74.44	75.93	77.07	78.08	78.96	79.80	83 71
110.00	DISCHG	90.74	96.58	105.93	114.16	126.96	141.62	159.28	190.98	263.59	755 61
120.00	DISCHG	1170.64	1045.76	618.62	422.27	291.32	224.74	194.10	176.12	167.82	159 16
130.00	DISCHG	154.80	149.85	146.18	140.77	132.66	129.44	128.35	127.94	127.72	127 57
140.00	DISCHG	127.45	127.32	127.19	127.07	126.91	124.75	120.98	119.33	118.58	118 20

150.00	DISCHG	118.09	118.06	117.90	117.59	117.37	117.31	117.21	115.98	113.86	112 91
160.00	DISCHG	112.63	112.47	112.17	111.86	111.6[redacted]	111.64	111.52	111.22	110.92	110 11
170.00	DI[redacted]	108.84	108.23	107.91	107.69	107.[redacted]	107.55	107.36	107.03	106.77	106 56
180.00	D[redacted]	106.36	105.75	104.81	104.31	104.[redacted]	103.80	103.57	103.33	103.10	102 97
190.00	DISCHG	102.63	102.40	102.16	101.59	100.76	100.31	100.16	99.99	99.65	99 24
200.00	DISCHG	98.95	98.80	98.56	98.15	97.74	97.24	96.63	96.18	95.66	95 17
210.00	DISCHG	94.85	86.95	75.97	65.89	57.48	51.47	46.86	42.72	38.90	35 78
220.00	DISCHG	33.28	31.13	29.15	27.38	26.52	27.15	27.03	23.84	20.72	20 34
230.00	DISCHG	21.58	21.96	21.81	21.62	21.45	21.29	21.20	21.24	20.85	19 64
240.00	DISCHG	20.27	18.87	18.41	17.77	16.34	8.96	8.26	7.61	7.02	6 47
250.00	DISCHG	5.96	5.49	5.06	4.66	4.30	3.96	3.65	3.36	3.10	2 86
260.00	DISCHG	2.63	2.43	2.24	2.06	1.90	1.75	1.61	1.49	1.37	1 26
270.00	DISCHG	1.16	1.07	.99	.91	.84	.77	.71	.66	.61	56
280.00	DISCHG	.51	.47	.44	.40	.37	.34	.31	.29	.27	25
290.00	DISCHG	.23	.21	.19	.18	.16	.15	.14	.13	.12	11

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1322 CFS-HRS= 20103.82 ACRE-FT= 1661.38

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
64.58	11.965	(RUNOFF)
76.07	14.721	(RUNOFF)
90.63	19.928	(RUNOFF)
102.84	32.195	(RUNOFF)
119.71	1206.507	(RUNOFF)
142.50	24.231	(RUNOFF)
150.84	16.860	(RUNOFF)
155.51	17.141	(RUNOFF)
160.58	13.194	(RUNOFF)
165.38	13.176	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0718 CFS-HRS= 7380.59 ACRE-FT= 609.93

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= .45

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.91	28.291	(RUNOFF)
76.99	34.875	(RUNOFF)
91.56	47.206	(RUNOFF)
103.54	76.339	(RUNOFF)
120.36	2388.519	(RUNOFF)
142.50	57.548	(RUNOFF)
151.49	39.929	(RUNOFF)
155.59	40.053	(RUNOFF)
160.50	31.320	(RUNOFF)
165.91	31.203	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0831 CFS-HRS= 17624.99 ACRE-FT= 1456.53

UBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.89	40.218	(NULL)
76.87	49.592	(NULL)
91.47	67.097	(NULL)
103.46	108.508	(NULL)
120.29	3470.138	(NULL)
142.50	81.778	(NULL)
151.42	56.748	(NULL)
155.59	56.996	(NULL)
160.70	44.469	(NULL)
165.89	44.355	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0773 CFS-HRS= 24976.44 ACRE-FT= 2064.05

UBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

UBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.72	15.495	(RUNOFF)
76.68	19.112	(RUNOFF)
91.30	25.842	(RUNOFF)
103.30	41.776	(RUNOFF)
120.12	1401.241	(RUNOFF)
142.50	31.478	(RUNOFF)
151.29	21.858	(RUNOFF)
155.55	22.001	(RUNOFF)
160.70	17.108	(RUNOFF)
165.73	17.090	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0856 CFS-HRS= 9650.80 ACRE-FT= 797.54

UBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.84	55.711	(NULL)
76.82	68.702	(NULL)
91.42	92.937	(NULL)
103.42	150.282	(NULL)
120.24	4863.713	(NULL)
142.50	113.256	(NULL)
151.38	78.606	(NULL)
155.57	78.997	(NULL)
160.70	61.578	(NULL)
165.84	61.442	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	7.89	21.08	26.68	28.86	29.72	29.48	28.95	29.02	29 63
10.00	DISCHG	29.90	29.38	28.90	29.92	31	32.49	32.06	31.71	32.12	32 69
20.00	DISCHG	32.62	32.00	31.74	32.25	32	33.70	35.05	35.61	35.77	35 82
30.00	DISCHG	35.83	35.84	35.58	34.89	34.62	35.12	35.63	36.96	38.97	39 80
40.00	DISCHG	40.04	40.14	40.67	41.27	41.22	40.60	40.27	40.18	40.16	41 72
50.00	DISCHG	44.35	45.44	45.74	45.86	46.40	47.01	46.95	46.34	46.00	45 91
60.00	DISCHG	45.93	48.25	52.17	53.97	55.10	55.64	55.30	54.75	54.82	55 44
70.00	DISCHG	55.70	55.19	54.77	58.51	65.00	67.71	68.49	68.69	68.25	67 67
80.00	DISCHG	67.72	68.34	68.67	68.77	68.89	75.16	85.62	90.00	91.23	91 63
90.00	DISCHG	92.24	92.88	92.82	92.20	91.87	91.78	91.88	107.57	133.77	144 75
100.00	DISCHG	147.82	148.75	149.53	150.22	150.16	149.55	149.21	149.12	149.26	163 68
110.00	DISCHG	187.96	203.39	228.75	246.08	281.71	319.82	371.77	474.08	783.99	2950 65
120.00	DISCHG	4791.11	4150.94	2259.06	1380.59	819.68	529.03	399.47	321.38	284.74	247 58
130.00	DISCHG	228.35	207.20	191.37	167.06	132.90	118.82	114.86	113.69	113.34	113 25
140.00	DISCHG	113.24	113.24	113.24	113.24	113.13	103.74	88.01	81.29	78.78	77 83
150.00	DISCHG	78.04	78.56	78.49	77.87	77.61	78.12	78.52	73.63	65.16	61 79
160.00	DISCHG	61.43	61.55	61.07	60.49	60.55	61.17	61.43	60.92	60.37	57 49
170.00	DISCHG	52.86	50.95	50.40	50.26	50.72	51.31	51.26	50.63	50.30	50 21
180.00	DISCHG	50.16	48.19	44.92	43.54	43.16	43.05	43.01	43.00	43.00	43 00
190.00	DISCHG	43.00	43.00	42.98	41.42	38.80	37.85	38.21	38.53	38.12	37 55
200.00	DISCHG	37.62	38.23	38.50	37.98	37.47	36.54	35.19	34.47	33.65	33 19
210.00	DISCHG	33.56	34.12	34.06	33.44	33.18	33.69	34.17	33.15	31.22	30 58
220.00	DISCHG	31.01	31.36	30.95	30.39	33.04	40.53	42.72	31.21	20.51	22 68
230.00	DISCHG	30.91	34.28	34.60	34.46	34.43	34.42	34.68	35.35	33.36	30 07
240.00	DISCHG	33.24	29.87	27.76	24.05	14.80	16.66				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0800 CFS-HRS= 34632.79 ACRE-FT= 2862.05

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .16

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.96	55.658	(NULL)
76.97	68.657	(NULL)
91.60	92.877	(NULL)
103.61	150.211	(NULL)
120.39	4649.080	(NULL)
142.50	113.254	(NULL)
151.54	78.559	(NULL)
155.59	78.819	(NULL)
160.60	61.566	(NULL)
165.96	61.390	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0781 CFS-HRS= 34601.36 ACRE-FT= 2859.46

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
64.70	12.820	(RUNOFF)
76.48	15.803	(RUNOFF)
91.02	21.357	(RUNOFF)

103.02	34.514	(RUNOFF)
[illegible]9.86	1234.621	(RUNOFF)
[illegible].50	25.989	(RUNOFF)
[illegible]1.02	18.067	(RUNOFF)
155.52	18.285	(RUNOFF)
160.65	14.137	(RUNOFF)
165.54	14.130	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0828 CFS-HRS= 7957.44 ACRE-FT= 657.60

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
69.86	68.457	(NULL)
76.86	84.443	(NULL)
91.46	114.207	(NULL)
103.47	184.706	(NULL)
120.26	5809.376	(NULL)
142.50	139.243	(NULL)
151.39	96.594	(NULL)
155.57	97.100	(NULL)
160.62	75.702	(NULL)
165.86	75.505	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0791 CFS-HRS= 42561.45 ACRE-FT= 3517.28

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .22

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
65.37	68.267	(NULL)
70.02	68.370	(NULL)
77.10	84.367	(NULL)
91.71	114.129	(NULL)
103.74	184.617	(NULL)
120.49	5482.010	(NULL)
151.63	96.534	(NULL)
155.60	96.799	(NULL)
166.02	75.418	(NULL)
175.69	63.032	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	7.53	21.33	30.52	34.60	36.19	36.27	35.77	35.69	36 23
10.00	DISCHG	36.64	36.27	35.71	36.53	38.48	39.65	39.53	39.12	39.39	39 99
20.00	DISCHG	40.09	39.55	39.13	39.51	40.10	41.15	42.62	43.55	43.91	44 02
30.00	DISCHG	44.05	44.06	43.81	43.13	42.68	43.04	43.62	45.05	47.21	48 60
40.00	DISCHG	49.12	49.31	49.84	50.52	50.66	50.12	49.64	49.44	49.39	50 87
50.00	DISCHG	53.61	55.42	56.11	56.34	56.88	57.58	57.71	57.17	56.69	56 49
60.00	DISCHG	56.46	58.68	62.78	65.64	67.32	68.20	68.07	67.51	67.41	67 96
70.00	DISCHG	68.37	67.99	67.48	70.93	77.67	82.14	83.86	84.36	84.03	83 40
80.00	DISCHG	83.28	83.82	84.30	84.50	84.65	90.66	101.63	108.85	111.63	112 49
90.00	DISCHG	113.21	113.96	114.10	113.56	113.09	112.88	112.94	127.92	155.36	173 45

100.00	DISCHG	180.39	182.49	183.58	184.43	184.59	184.06	183.58	183.38	183.46	197	28
110.00	DIS[illegible]	222.67	244.46	272.75	296.06	335.3[illegible]	379.41	441.12	548.36	873.44	2961	32
120.00	DI[illegible]	5208.49	5188.58	3422.41	2045.68	1213.[illegible]	763.78	541.28	425.10	363.94	317	64
130.00	DI [illegible]G	288.27	261.85	241.23	212.87	175.[illegible]	151.87	142.95	140.27	139.50	139	28
140.00	DISCHG	139.23	139.23	139.23	139.23	139.12	130.13	113.66	102.68	97.88	96	07
150.00	DISCHG	95.93	96.41	96.49	95.94	95.53	95.90	96.39	91.85	83.05	77	37
160.00	DISCHG	75.76	75.64	75.22	74.58	74.46	75.00	75.42	75.04	74.43	71	50
170.00	DISCHG	66.60	63.42	62.20	61.85	62.23	62.87	63.00	62.46	61.98	61	77
180.00	DISCHG	61.68	59.79	56.36	54.10	53.23	52.97	52.90	52.88	52.87	52	87
190.00	DISCHG	52.87	52.87	52.85	51.35	48.61	46.95	46.90	47.26	46.98	46	37
200.00	DISCHG	46.26	46.81	47.22	46.84	46.26	45.21	43.74	42.66	41.65	40	99
210.00	DISCHG	41.18	41.75	41.86	41.31	40.90	41.27	41.83	41.01	39.06	37	88
220.00	DISCHG	38.02	38.42	38.16	37.56	39.97	47.32	51.52	41.73	29.16	27	81
230.00	DISCHG	35.21	40.74	42.32	42.41	42.34	42.32	42.56	43.23	41.39	38	72
240.00	DISCHG	40.02	38.03	36.34	27.32	18.30	16.37	5.92	.67	.00		

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0759 CFS-HRS= 42495.47 ACRE-FT= 3511.83

UBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

UBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
70.29	97.859	1570.94
77.73	119.621	1574.21
92.37	162.725	1582.84
120.45	6661.348	1586.77
151.35	214.508	1583.38
155.56	214.192	1583.38
165.80	186.956	1583.33
175.40	170.476	1583.31
196.73	147.279	1579.50
201.68	145.826	1579.17

TIME HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 46.33

.00	DISCHG	.00	9.23	26.29	37.17	42.42	44.88	45.55	45.51	45.96	47	14
10.00	DISCHG	48.06	48.00	47.72	49.09	51.82	53.50	53.63	53.46	54.10	55	11
20.00	DISCHG	55.46	55.02	54.76	55.44	56.32	57.76	59.74	61.00	61.61	61	93
30.00	DISCHG	62.15	62.33	62.18	61.48	61.08	61.66	62.45	64.28	67.04	68	77
40.00	DISCHG	69.54	69.92	70.74	71.73	72.02	71.49	71.07	70.95	71.00	72	90
50.00	DISCHG	76.36	78.59	79.55	80.00	80.85	81.86	82.16	81.65	81.24	81	13
60.00	DISCHG	81.21	84.03	89.19	92.66	94.89	96.17	96.24	95.80	96.01	97	02
70.00	DISCHG	97.82	97.61	97.21	101.65	110.21	115.82	118.36	119.51	119.60	119	28
80.00	DISCHG	119.51	120.50	121.33	121.82	122.24	129.80	143.59	152.62	156.66	158	55
90.00	DISCHG	160.25	161.87	162.66	162.55	162.45	162.60	163.04	181.66	216.09	238	42
100.00	DISCHG	248.39	252.93	256.16	258.87	260.53	261.13	261.66	262.34	263.26	280	99
110.00	DISCHG	313.41	341.04	378.68	410.22	462.27	521.03	600.40	739.34	1137.03	3716	93
120.00	DISCHG	6379.13	6234.34	4041.03	2467.95	1504.89	988.52	735.38	601.23	531.75	476	80
130.00	DISCHG	443.06	411.70	387.41	353.63	308.03	281.31	271.30	268.20	267.22	266	85
140.00	DISCHG	266.68	266.55	266.42	266.29	266.04	254.88	234.64	222.01	216.46	214	27
150.00	DISCHG	214.02	214.48	214.39	213.54	212.89	213.21	213.61	207.83	196.91	190	28
160.00	DISCHG	188.39	188.11	187.39	186.44	186.15	186.65	186.94	186.26	185.35	181	61
170.00	DISCHG	175.44	171.65	170.11	169.54	169.84	170.42	170.36	169.48	168.74	168	33

180.00	DISCHG	168.04	165.54	161.17	158.41	157.26	156.77	156.46	156.21	155.97	155 74
190.00	DISCHG	155.51	155.27	155.02	152.95	149.3[illegible]	147.26	147.06	147.25	146.62	145 60
200.00	DI[illegible]	145.21	145.60	145.78	144.99	144.[illegible]	142.45	140.36	138.83	137.31	136 16
210.00	DI[illegible]	136.03	128.70	117.83	107.20	98.[illegible]	92.74	88.69	83.74	77.96	73 66
220.00	DISCHG	71.30	69.55	67.31	64.94	66.48	74.47	78.54	65.57	49.88	48 16
230.00	DISCHG	56.79	62.69	64.13	64.02	63.79	63.61	63.76	64.47	62.24	58 36
240.00	DISCHG	60.29	56.90	54.76	45.08	34.64	25.33	14.18	8.29	7.02	6 47
250.00	DISCHG	5.96	5.49	5.06	4.66	4.30	3.96	3.65	3.36	3.10	2 86
260.00	DISCHG	2.63	2.43	2.24	2.06	1.90	1.75	1.61	1.49	1.37	1 26
270.00	DISCHG	1.16	1.07	.99	.91	.84	.77	.71	.66	.61	56
280.00	DISCHG	.51	.47	.44	.40	.37	.34	.31	.29	.27	25
290.00	DISCHG	.23	.21	.19	.18	.16	.15	.14	.13	.12	11

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0936 CFS-HRS= 62599.29 ACRE-FT= 5173.21

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES 191.88 PEAK DISCHARGES 155.770 PEAK ELEVATIONS 1581.38

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	.17	.81	1.93	3.31	4.78	6.25	7.68	9.07	10 43
10.00	DISCHG	11.79	13.11	14.37	15.61	16.88	18.18	19.47	20.71	21.92	23 11
20.00	DISCHG	24.28	25.41	26.48	27.52	28.56	29.59	30.65	31.74	32.81	33 87
30.00	DISCHG	34.89	35.89	36.85	37.76	38.61	39.44	40.27	41.11	42.00	42 95
40.00	DISCHG	43.90	44.84	45.77	46.70	47.61	48.49	49.32	50.11	50.87	51 64
50.00	DISCHG	52.48	53.39	54.32	55.25	56.17	57.08	57.99	58.86	59.68	60 47
60.00	DISCHG	61.22	62.00	62.90	63.92	65.00	66.12	67.21	68.26	69.27	70 26
70.00	DISCHG	71.25	72.21	73.13	74.09	75.25	76.62	78.10	79.58	81.04	82 44
80.00	DISCHG	83.78	85.10	86.41	87.69	88.94	90.29	91.98	92.20	92.43	92 66
90.00	DISCHG	92.90	93.15	93.40	93.65	93.90	94.14	94.39	94.67	95.05	95 53
100.00	DISCHG	96.06	96.62	97.19	97.77	98.35	98.94	99.52	100.11	100.70	101 32
110.00	DISCHG	102.02	102.84	103.76	104.81	106.01	107.04	108.26	109.76	111.99	118 20
120.00	DISCHG	127.41	137.51	143.96	147.27	149.22	150.34	151.00	151.48	151.87	152 19
130.00	DISCHG	152.48	152.73	152.96	153.17	153.33	153.46	153.58	153.68	153.79	153 90
140.00	DISCHG	154.00	154.11	154.21	154.31	154.42	154.52	154.60	154.67	154.73	154 79
150.00	DISCHG	154.84	154.90	154.95	155.01	155.06	155.11	155.17	155.22	155.26	155 30
160.00	DISCHG	155.33	155.36	155.39	155.42	155.45	155.48	155.51	155.54	155.56	155 59
170.00	DISCHG	155.61	155.63	155.64	155.66	155.67	155.68	155.70	155.71	155.72	155 73
180.00	DISCHG	155.74	155.76	155.76	155.77	155.77	155.77	155.77	155.77	155.77	155 77
190.00	DISCHG	155.77	155.77	155.77	155.77	155.76	155.76	155.75	155.74	155.73	155 72
200.00	DISCHG	155.71	155.70	155.70	155.69	155.68	155.66	155.65	155.64	155.62	155 60
210.00	DISCHG	155.58	155.56	155.53	155.49	155.44	155.39	155.33	155.26	155.19	155 12
220.00	DISCHG	155.04	154.96	154.88	154.80	154.72	154.64	154.57	154.49	154.40	154 30
230.00	DISCHG	154.21	154.12	154.04	153.95	153.87	153.79	153.70	153.62	153.53	153 45
240.00	DISCHG	153.36	153.27	153.18	153.09	152.98	152.87	152.74	152.61	152.48	152 34
250.00	DISCHG	152.21	152.07	151.93	151.80	151.66	151.52	151.38	151.25	151.11	150 97
260.00	DISCHG	150.83	150.70	150.56	150.42	150.28	150.15	150.01	149.85	149.69	149 54
270.00	DISCHG	149.38	149.22	149.06	148.91	148.75	148.59	148.43	148.28	148.12	147 96
280.00	DISCHG	147.81	147.65	147.49	147.34	147.18	147.03	146.87	146.71	146.56	146 40
290.00	DISCHG	146.25	146.09	145.94	145.78	145.63	145.47	145.32	145.17	145.01	144 86

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1592 CFS-HRS= 34659.02 ACRE-FT= 2864.22

CHANGES TO S[redacted]DARD CONTROL LIST FOLLOW
EXECUTIVE C[redacted]OL CARD 102A OPERATION ENDJOB, XSECTN/S[redacted]= 0/ 0

```
ERROR IN MAIN PROGRAM AT STATEMENT NUMBER    410
CURRENT EX[redacted]IVE CONTROL CARD FOLLOWS
7 ENDJOB 2    0 0    0 0          .0000          .0000          .00000 0 0 0 0 0
LAST CARD READ INTO BUF1 =
7 ENDJOB 2    0 0    0 0          .0000          .0000          .00000 0 0 0 0 0
LAST CARD READ INTO BUF2 =
0 ENDATA 0    0 0 0 0 0          .0000          .0000          .00000 0 0 0 0 0
UNRECOVERABLE ERROR.  CALLING EXIT.
```

SUMMARY TABLE 1

ALT	STORM		DA SQ-MI.	RAIN TBLE	AMC	DELTA-T HRS.	TZERO HRS.	PRECIP IN.	PREC DURAT	PEAK-Q CFS	PEAK-TIME	PEAK-ELEV	RUNOFF IN.	CSM
1	1	2	5.87	3	2	1.00	.00	2.00	237.60	1101.07	120.24	.00	2.01	187.58
1	1	102	5.87	3	2	1.00	.00	2.00	237.60	1101.07	120.24	.00	2.01	187.58
1	1	5	5.52	3	2	1.00	.00	2.00	237.60	1219.45	119.70	.00	2.00	220.92
1	1	4	13.11	3	2	1.00	.00	2.00	237.60	2395.38	120.33	.00	2.01	182.71
1	1	104	18.63	3	2	1.00	.00	2.00	237.60	3482.49	120.27	.00	2.01	186.93
1	1	6	7.17	3	2	1.00	.00	2.00	237.60	1409.19	120.10	.00	2.02	196.54
1	1	106	25.80	3	2	1.00	.00	2.00	237.60	4883.88	120.22	.00	2.01	189.30
1	1	3	25.80	3	2	1.00	.00	2.00	237.60	4660.66	120.36	.00	2.01	180.65
1	1	3	5.92	3	2	1.00	.00	2.00	237.60	1245.33	119.84	.00	2.01	210.36
1	1	3	31.72	3	2	1.00	.00	2.00	237.60	5830.86	120.23	.00	2.01	183.82
1	1	102	31.72	3	2	1.00	.00	2.00	237.60	5488.15	120.46	.00	2.01	173.02
1	1	-1	37.59	3	2	1.00	.00	2.00	237.60	6578.09	120.42	~~1586.75~~	2.01	175.00
1	1	-1	37.59	3	2	1.00	.00	2.00	237.60	149.21	144.83	1579.92	1.32	3.97
2	1	15	1.72	4	2	1.00	.00	2.07	237.60	379.76	119.46	.00	2.11	220.79
2	1	14	1.16	4	2	1.00	.00	2.07	237.60	254.84	119.49	.00	2.12	219.69
2	1	14	2.88	4	2	1.00	.00	2.07	237.60	685.27	119.50	.00	2.12	237.94
2	1	16	2.24	4	2	1.00	.00	2.07	237.60	531.81	119.50	.00	2.05	237.42
2	1	114	5.12	4	2	1.00	.00	2.07	237.60	1217.08	119.50	.00	2.09	237.71
2	1	13	1.35	4	2	1.00	.00	2.07	237.60	295.16	119.34	.00	2.12	218.63
2	1	13	6.47	4	2	1.00	.00	2.07	237.60	1509.30	119.55	.00	2.11	233.28
2	1	12	1.43	4	2	1.00	.00	2.07	237.60	323.61	119.48	.00	2.07	226.30
2	1	12	7.90	4	2	1.00	.00	2.07	237.60	1809.27	119.58	.00	2.12	229.02
2	1	11	.63	4	2	1.00	.00	2.07	237.60	139.44	119.49	.00	2.10	221.33
2	1	111	8.53	4	2	1.00	.00	2.07	237.60	1938.60	119.60	.00	2.12	227.27
2	1	17	.21	4	2	1.00	.00	2.07	237.60	45.98	119.38	.00	2.12	218.96
2	1	117	8.74	4	2	1.00	.00	2.07	237.60	1988.62	119.60	.00	2.12	227.53
2	1	-7	8.74	4	2	1.00	.00	2.07	237.60	102.76	126.35	1976.58	2.17	11.76
2	1	102	8.74	4	2	1.00	.00	2.07	237.60	102.75	128.07	.00	2.17	11.76
2	1	2	5.87	4	2	1.00	.00	2.07	237.60	1096.88	120.26	.00	2.08	186.86
2	1	102	14.61	4	2	1.00	.00	2.07	237.60	1190.13	120.27	.00	2.13	81.46
2	1	5	5.52	4	2	1.00	.00	2.07	237.60	1206.51	119.71	.00	2.07	218.57
2	1	4	13.11	4	2	1.00	.00	2.07	237.60	2388.52	120.36	.00	2.08	182.19
2	1	104	18.63	4	2	1.00	.00	2.07	237.60	3470.14	120.29	.00	2.08	186.27
2	1	6	7.17	4	2	1.00	.00	2.07	237.60	1401.24	120.12	.00	2.09	195.43
2	1	106	25.80	4	2	1.00	.00	2.07	237.60	4863.71	120.24	.00	2.08	188.52
2	1	3	25.80	4	2	1.00	.00	2.07	237.60	4649.08	120.39	.00	2.08	180.20
2	1	3	5.92	4	2	1.00	.00	2.07	237.60	1234.62	119.86	.00	2.08	208.55
2	1	3	31.72	4	2	1.00	.00	2.07	237.60	5809.38	120.26	.00	2.08	183.15
2	1	102	31.72	4	2	1.00	.00	2.07	237.60	5482.01	120.49	.00	2.08	172.83
2	1	-1	46.33	4	2	1.00	.00	2.07	237.60	6661.35	120.45	~~1586.77~~	2.09	143.78
2	1	-1	46.33	4	2	1.00	.00	2.07	237.60	155.77	191.88	1581.38	1.16	3.36

SUMMARY TABLE 3

DISCH. [illegible],CFS

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q1
XSEC/STRUC NO. -7										
ALTERNATE 2	102.76	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. -1										
ALTERNATE 1	149.21	.00	.00	.00	.00	.00	.00	.00	.00	00
ALTERNATE 2	155.77	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 2										
ALTERNATE 1	1101.07	.00	.00	.00	.00	.00	.00	.00	.00	00
ALTERNATE 2	1096.88	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 3										
ALTERNATE 1	5830.86	.00	.00	.00	.00	.00	.00	.00	.00	00
ALTERNATE 2	5809.38	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 4										
ALTERNATE 1	2395.38	.00	.00	.00	.00	.00	.00	.00	.00	00
ALTERNATE 2	2388.52	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 5										
ALTERNATE 1	1219.45	.00	.00	.00	.00	.00	.00	.00	.00	00
ALTERNATE 2	1206.51	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 6										
ALTERNATE 1	1409.19	.00	.00	.00	.00	.00	.00	.00	.00	00
ALTERNATE 2	1401.24	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 11										
ALTERNATE 2	139.44	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 12										
ALTERNATE 2	1809.27	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 13										
ALTERNATE 2	1509.30	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 14										
ALTERNATE 2	685.27	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 15										
ALTERNATE 2	379.76	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 16										
ALTERNATE 2	531.81	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO. 17										
ALTERNATE 2	45.98	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO.102										
ALTERNATE 1	5488.15	.00	.00	.00	.00	.00	.00	.00	.00	00
ALTERNATE 2	5482.01	.00	.00	.00	.00	.00	.00	.00	.00	00

XSEC/STRUC NO.104											
ALTERNATE	1	3482.49	.00	.00	.00	.00	.00	.00	.00	.00	00
ALTERNATE	[redacted]	3470.14	.00	.00	.00	[redacted]	.00	.00	.00	.00	00
XSEC/STRUC NO.106											
ALTERNATE	1	4883.88	.00	.00	.00	.00	.00	.00	.00	.00	00
ALTERNATE	2	4863.71	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO.111											
ALTERNATE	2	1938.60	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO.114											
ALTERNATE	2	1217.08	.00	.00	.00	.00	.00	.00	.00	.00	00
XSEC/STRUC NO.117											
ALTERNATE	2	1988.62	.00	.00	.00	.00	.00	.00	.00	.00	00

ENDJOB CARD ENCOUNTERED. END OF JOB.

@END
@ENL ORED - IN CONTROL MODE

@FIN

RU[redacted] SCSC4M ACCT: 1604000101 PROJECT: SCS04

***** DISPLAYED LOG ENTRY/RESOURCE UTILIZATION SECTION*****

TIME	CPU	IO	CCER	SIZE	QUALIFIER	FILENAME	PROGRAM	VERSION
00:00:42.639	00:00:05.518	00:00:09.432	00:00:07.283	59K	SCS76	ABS	TR20	CONVEX
11:48:43	-102UT FIN							
00:00:00.618	00:00:00.000	00:00:00.351	00:00:05.517	3K	RESOURCES USED IN CONTROL MODE			
00:00:43.257	00:00:05.518	00:00:09.784	00:00:12.800	47K	SUMMARY			

IMAGES READ: 217 PAGES: 36

START: 11:48:18 SEP 26,1985 FIN: 11:48:43 SEP 26,1985

***** COST SECTION *****

CHARGES BASED ON BATCH RUN AT L PRIORITY

RT ($000.61/MIN)	:$000000.43
CPU ($001.26/MIN)	:$000000.11
IO ($000.67/MIN)	:$000000.10
CCER($001.26/MIN)	:$000000.26

ESTIMATED TOTAL COST:	$000000.90
	==========

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456 890**SEQ NO.

1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456 890**SEQ NO.

```
8                .1914       .2055       .2230       .2466       .2848
8                .6776       .7564       .7854       .8054       .8210
8                .8339       .8418       .8497       .8576       .8655
8                .8734       .8789       .8843       .8898       .8952
8                .9007       .9049       .9092       .9134       .9177
8                .9219       .9254       .9289       .9325       .9360
8                .9395       .9425       .9455       .9485       .9515
8                .9545       .9571       .9598       .9624       .9651
8                .9677       .9701       .9724       .9748       .9771
8                .9795       .9816       .9838       .9859       .9891
8                .9902       .9927       .9951       .9975      1.0000
9 ENDTBL

                       TIME INCREMENT
5 RAINFL 5                    .2500

8                .0000       .0072       .0152       .0251       .0358
8                .0538       .0717       .0950       .1219       .4910
8                .6398       .7043       .7661       .8109       .8486
8                .8799       .9041       .9274       .9453       .9606
8                .9713       .9821       .9892       .9955      1.0000
9 ENDTBL

                       TIME INCREMENT
5 RAINFL 6                    .5000

8                .0000       .0078       .0150       .0214       .0286
8                .0371       .0457       .0550       .0643       .0750
8                .0864       .0971       .1071       .1250       .1514
8                .1821       .2250       .3214       .4143       .4964
8                .5714       .6421       .6893       .7214       .7500
8                .7750       .7957       .8143       .8314       .8486
8                .8621       .8757       .8879       .9000       .9093
8                .9193       .9286       .9364       .9443       .9514
8                .9593       .9657       .9714       .9786       .9829
8                .9879       .9921       .9964      1.0000      1.0000
9 ENDTBL
```

REV.

PASS= 1

EXECUTIVE CONTROL CARD 98 OPERATION INCREM, MAIN TIME INCREMENT= 1.00
EXECUTIVE CONTROL CARD 99 OPERATION COMPUT, FROM XSECTN/STRUCT 2/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 2.00 RAIN DURATION= 1.00 RAIN TABLE NO.= 3 SOIL CONDITION 2
ALTERNATE NO.= 1 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
63.39	12.132	(RUNOFF)
67.43	12.238	(RUNOFF)
89.03	20.441	(RUNOFF)
103.44	33.037	(RUNOFF)
120.24	1101.066	(RUNOFF)
141.83	25.167	(RUNOFF)
154.50	17.334	(RUNOFF)
167.50	13.620	(RUNOFF)
172.81	11.317	(RUNOFF)
177.83	11.303	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0120 CFS-HRS= 7621.99 ACRE-FT= 629.88

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
63.39	12.132	(NULL)
67.43	12.238	(NULL)
89.03	20.441	(NULL)
103.44	33.037	(NULL)
120.24	1101.066	(NULL)
141.83	25.167	(NULL)
154.50	17.334	(NULL)
167.50	13.620	(NULL)
172.81	11.317	(NULL)
177.83	11.303	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 5.87

TIME											
.00	DISCHG	.00	1.73	4.86	6.05	6.28	6.31	6.42	6.55	6.55	6 40
10.00	DISCHG	6.35	6.46	6.57	6.77	7.07	7.16	7.05	6.98	7.06	7 18
20.00	DISCHG	7.17	7.04	6.98	7.09	7.20	7.40	7.70	7.83	7.86	7 88
30.00	DISCHG	7.99	8.13	8.12	7.98	7.91	7.89	7.88	8.13	8.57	8 78
40.00	DISCHG	8.98	9.08	9.01	8.89	8.89	9.04	9.09	8.98	8.88	9 26
50.00	DISCHG	9.97	10.24	10.18	10.12	10.21	10.34	10.32	10.19	10.13	10 24
60.00	DISCHG	10.36	10.88	11.78	12.10	12.06	12.01	12.10	12.23	12.22	12 08
70.00	DISCHG	12.02	12.13	12.25	13.02	14.36	14.89	15.06	15.11	15.12	15 13
80.00	DISCHG	15.13	15.13	15.13	15.13	15.16	16.55	19.02	20.04	20.35	20 44
90.00	DISCHG	20.36	20.23	20.24	20.38	20.45	20.47	20.54	23.80	29.73	32 03
100.00	DISCHG	32.60	32.73	32.89	33.02	33.01	32.87	32.81	32.93	33.07	36 86
110.00	DISCHG	41.37	44.60	50.42	54.33	62.04	70.56	81.12	104.53	173.98	669 33
120.00	DISCHG	1085.20	936.91	469.62	263.02	158.75	110.90	86.26	70.49	63.01	54 83
130.00	DISCHG	50.63	45.77	42.18	36.98	29.22	26.24	25.46	25.27	25.10	24 96
140.00	DISCHG	24.97	25.11	25.16	25.05	24.92	22.91	19.38	17.95	17.52	17 38

50.00	DISCHG	17.34	17.33	17.33	17.33	17.33	17.33	17.31	16.33	14.58	13 86
60.00	DISCHG	13.64	13.57	13.44	13.30	13.31	13.45	13.52	13.54	13.54	12 89
70.00	DISCHG	11.70	11.26	11.27	11.31	11.22	11.09	11.10	11.24	11.30	11 19
80.00	DISCHG	11.07	10.63	9.86	9.58	9.49	9.47	9.57	9.70	9.69	9 56

190.00	DISCHG	9.48	9.46	9.45	9.20	8.77	8.55	8.35	8.25	8.32	8 44
200.00	DISCHG	8.43	8.30	8.24	8.35	8.46	8.25	7.81	7.64	7.59	7 56
210.00	DISCHG	7.45	7.31	7.32	7.46	7.53	7.55	7.56	7.40	7.10	6 95
220.00	DISCHG	6.77	6.67	6.75	6.87	6.86	6.72	6.67	6.78	6.89	7 17
230.00	DISCHG	7.62	7.80	7.85	7.87	7.76	7.63	7.64	7.78	7.49	6 42
240.00	DISCHG	7.25	6.42	6.76	6.98	6.39					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0120 CFS-HRS= 7621.99 ACRE-FT= 629.88

UBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
62.48	11.487	(RUNOFF)
66.84	11.549	(RUNOFF)
88.27	19.262	(RUNOFF)
99.30	30.989	(RUNOFF)
102.84	31.106	(RUNOFF)
119.70	1219.454	(RUNOFF)
136.58	23.710	(RUNOFF)
141.41	23.696	(RUNOFF)
154.50	16.299	(RUNOFF)
166.64	12.743	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9997 CFS-HRS= 7123.79 ACRE-FT= 588.71

UBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= .45

UBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
63.54	26.951	(RUNOFF)
67.52	27.318	(RUNOFF)
89.20	45.611	(RUNOFF)
103.51	73.765	(RUNOFF)
120.33	2395.382	(RUNOFF)
141.90	56.184	(RUNOFF)
154.50	38.713	(RUNOFF)
167.27	30.236	(RUNOFF)
172.80	25.276	(RUNOFF)
177.90	25.218	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0129 CFS-HRS= 17030.83 ACRE-FT= 1407.43

UBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
63.45	38.500	(NULL)
67.44	38.831	(NULL)
89.06	64.859	(NULL)
103.45	104.844	(NULL)
120.27	3482.490	(NULL)
141.88	79.858	(NULL)
154.50	55.012	(NULL)
167.25	42.975	(NULL)
172.87	35.913	(NULL)
177.88	35.854	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0070 CFS-HRS= 24130.30 ACRE-FT= 1994.13

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
63.22	14.852	(RUNOFF)
67.28	14.962	(RUNOFF)
88.79	24.996	(RUNOFF)
103.29	40.364	(RUNOFF)
120.10	1409.189	(RUNOFF)
141.72	30.753	(RUNOFF)
154.50	21.173	(RUNOFF)
167.05	16.544	(RUNOFF)
172.78	13.827	(RUNOFF)
177.72	13.816	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0153 CFS-HRS= 9325.29 ACRE-FT= 770.64

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
63.39	53.344	(NULL)
67.39	53.791	(NULL)
88.98	89.850	(NULL)
103.40	145.207	(NULL)
120.22	4883.879	(NULL)
141.84	110.609	(NULL)
154.50	76.185	(NULL)
167.20	59.519	(NULL)
172.84	49.740	(NULL)
177.84	49.668	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	8.01	21.39	26.76	27.66	27.72	28.23	28.81	28.75	28 15
10.00	DISCHG	27.90	28.39	28.89	29.79	31.09	31.48	31.00	30.65	31.03	31 58
20.00	DISCHG	31.52	30.92	30.66	31.16	31.66	32.56	33.87	34.41	34.56	34 63
30.00	DISCHG	35.14	35.72	35.68	35.07	34.75	34.66	34.65	35.78	37.67	38 61

40.00	DISCHG	39.47	39.94	39.59	39.05	39.11	39.72	39.96	39.47	39.01	75
50.00	DISCHG	43.88	45.04	44.77	44.47	44.88	45.44	45.37	44.77	44.51	01
60.00	DISCHG	45.54	47.94	51.77	53.22	53.04	52.78	53.19	53.74	53.68	08
70.00	DISCHG	52.83	53.32	53.87	57.41	63.14	65.52	66.20	66.40	66.46	66 48
80.00	DISCHG	66.48	66.48	66.48	66.48	66.57	73.00	83.74	88.24	89.50	89 85
90.00	DISCHG	89.47	88.92	88.98	89.57	89.89	89.99	90.14	105.31	130.63	141 09
100.00	DISCHG	143.42	143.89	144.53	145.15	145.08	144.49	144.23	144.73	145.38	159 08
110.00	DISCHG	181.95	196.76	221.83	238.98	273.52	310.38	360.58	459.43	770.58	2961 87
120.00	DISCHG	4822.25	4092.05	2039.17	1126.13	685.31	481.59	378.07	309.05	275.79	240 49
130.00	DISCHG	221.94	200.93	185.12	161.48	128.43	114.96	111.76	111.03	110.32	109 69
140.00	DISCHG	109.75	110.35	110.60	110.11	109.51	100.29	85.05	78.70	76.90	76 38
150.00	DISCHG	76.22	76.17	76.17	76.17	76.17	76.17	76.08	71.58	63.99	60 83
160.00	DISCHG	59.92	59.63	59.06	58.46	58.51	59.10	59.43	59.52	59.48	56 48
170.00	DISCHG	51.42	49.47	49.51	49.73	49.30	48.75	48.80	49.41	49.66	49 17
180.00	DISCHG	48.66	46.62	43.41	42.08	41.70	41.62	42.08	42.65	42.59	42 00
190.00	DISCHG	41.68	41.59	41.55	40.40	38.50	37.56	36.70	36.23	36.58	37 13
200.00	DISCHG	37.06	36.46	36.21	36.70	37.16	36.19	34.33	33.55	33.33	33 24
210.00	DISCHG	32.73	32.14	32.19	32.79	33.11	33.20	33.22	32.47	31.20	30 53
220.00	DISCHG	29.74	29.30	29.66	30.19	30.14	29.53	29.29	29.78	30.27	31 55
230.00	DISCHG	33.50	34.31	34.53	34.57	34.10	33.53	33.58	34.18	32.24	29 05
240.00	DISCHG	32.11	28.86	26.82	23.23	14.30	16.09				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0096 CFS-HRS= 33460.95 ACRE-FT= 2765.21

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .16

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
63.77	53.080	(NULL)
67.57	53.739	(NULL)
89.16	89.802	(NULL)
103.58	145.142	(NULL)
120.36	4660.658	(NULL)
141.95	110.558	(NULL)
154.50	76.183	(NULL)
167.38	59.512	(NULL)
172.87	49.699	(NULL)
177.95	49.617	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0077 CFS-HRS= 33429.76 ACRE-FT= 2762.64

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
62.85	12.301	(RUNOFF)
67.02	12.372	(RUNOFF)
88.51	20.670	(RUNOFF)
99.49	33.206	(RUNOFF)
103.01	33.347	(RUNOFF)
119.84	1245.329	(RUNOFF)
136.54	25.424	(RUNOFF)
141.53	25.409	(RUNOFF)

154.50	17.482	(RUNOFF)
167.50	13.918	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0115 CFS-HRS= 7685.22 ACRE-FT= 635.11

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
63.46	65.492	(NULL)
67.42	66.084	(NULL)
89.03	110.439	(NULL)
103.44	178.469	(NULL)
120.23	5830.861	(NULL)
141.86	135.953	(NULL)
154.50	93.664	(NULL)
167.38	73.176	(NULL)
172.81	61.129	(NULL)
177.86	61.029	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0086 CFS-HRS= 41117.54 ACRE-FT= 3397.95

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= .22

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
55.66	55.799	(NULL)
64.13	65.220	(NULL)
67.67	66.017	(NULL)
89.29	110.362	(NULL)
103.70	178.388	(NULL)
120.46	5488.154	(NULL)
142.02	135.870	(NULL)
167.51	73.504	(NULL)
172.79	61.074	(NULL)
178.02	60.946	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	7.64	21.64	30.67	33.54	34.04	34.56	35.21	35.33	34 80
10.00	DISCHG	34.41	34.77	35.33	36.35	37.77	38.53	38.25	37.82	38.06	38 64
20.00	DISCHG	38.74	38.21	37.81	38.17	38.74	39.76	41.18	42.08	42.42	42 55
30.00	DISCHG	43.05	43.71	43.84	43.32	42.85	42.66	42.61	43.68	45.66	47 11
40.00	DISCHG	48.23	48.92	48.75	48.20	48.10	48.63	49.03	48.67	48.13	49 65
50.00	DISCHG	52.87	54.88	55.08	54.79	55.07	55.66	55.76	55.24	54.84	55 20
60.00	DISCHG	55.79	58.25	62.31	64.82	65.22	64.98	65.28	65.88	65.98	65 46
70.00	DISCHG	65.06	65.42	66.02	69.58	75.64	79.58	81.09	81.55	81.68	81 72
80.00	DISCHG	81.73	81.73	81.73	81.73	81.82	87.97	99.22	106.64	109.48	110 32
90.00	DISCHG	110.10	109.52	109.41	109.93	110.39	110.59	110.77	125.28	151.81	169 15
100.00	DISCHG	175.23	176.70	177.49	178.22	178.36	177.84	177.44	177.80	178.50	191 80
110.00	DISCHG	215.77	236.57	264.36	287.39	325.56	368.25	427.90	531.52	856.83	2967 63
120.00	DISCHG	5239.35	5140.05	3207.96	1751.76	1012.19	672.44	503.64	406.27	351.58	308 19
130.00	DISCHG	280.09	254.06	233.53	205.82	169.49	146.89	138.88	136.83	135.87	135 10
140.00	DISCHG	134.95	135.47	135.87	135.51	134.85	125.87	109.86	99.36	95.34	94 13

150.0	DISCHG	93.78	93.68	93.65	93.65	93.65	93.65	93.57	89.25	81.31	8
160.	DISCHG	74.07	73.44	72.79	72.09	71.95	72.47	72.93	73.13	73.15	7 7
170.00	DISCHG	64.98	61.64	60.93	61.06	60.73	60.13	60.02	60.55	60.95	60 59
180.00	DISCHG	60.01	57.91	54.49	52.28	51.44	51.21	51.60	52.23	52.35	51 83
190.00	DISCHG	51.37	51.17	51.09	49.99	48.00	46.55	45.42	44.73	44.90	45 45
200.00	DISCHG	45.55	45.02	44.62	44.99	45.53	44.73	42.85	41.57	41.08	40 90
210.00	DISCHG	40.39	39.73	39.60	40.12	40.58	40.78	40.83	40.13	38.80	37 79
220.00	DISCHG	36.84	36.20	36.38	36.93	37.04	36.51	36.11	36.47	37.03	38 41
230.00	DISCHG	40.51	41.85	42.36	42.49	42.06	41.42	41.30	41.82	40.01	37 42
240.00	DISCHG	38.67	36.74	35.11	26.39	17.68	15.82	5.72	.65	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0055 CFS-HRS= 41053.88 ACRE-FT= 3392.69

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
55.62	66.141	1569.57
64.05	77.279	1569.80
67.63	78.251	1569.82
89.25	130.798	1576.25
103.66	211.420	1583.37
120.42	6578.093	1586.75
141.99	161.035	1582.51
167.50	87.124	1570.00
172.80	72.391	1569.70
177.99	72.246	1569.69

TIME HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 37.59

.00	DISCHG	.00	9.37	26.50	36.72	39.81	40.35	40.98	41.76	41.87	41 21
10.00	DISCHG	40.76	41.23	41.90	43.12	44.84	45.69	45.31	44.79	45.12	45 82
20.00	DISCHG	45.91	45.24	44.79	45.26	45.94	47.15	48.88	49.90	50.29	50 43
30.00	DISCHG	51.05	51.83	51.96	51.30	50.76	50.54	50.49	51.80	54.23	55 89
40.00	DISCHG	57.21	58.00	57.76	57.09	57.00	57.67	58.12	57.65	57.02	58 90
50.00	DISCHG	62.84	65.11	65.26	64.91	65.28	66.00	66.09	65.42	64.97	65 44
60.00	DISCHG	66.15	69.13	74.09	76.92	77.28	76.99	77.39	78.10	78.20	77 53
70.00	DISCHG	77.07	77.55	78.27	82.60	89.99	94.47	96.15	96.66	96.81	96 85
80.00	DISCHG	96.86	96.86	96.86	96.86	96.98	104.52	118.24	126.68	129.83	130 76
90.00	DISCHG	130.46	129.75	129.65	130.31	130.85	131.06	131.31	149.08	181.54	201 17
100.00	DISCHG	207.82	209.43	210.37	211.25	211.37	210.71	210.25	210.73	211.57	227 86
110.00	DISCHG	257.14	281.16	314.78	341.72	387.60	438.81	509.01	636.05	1030.81	3636 97
120.00	DISCHG	6324.55	6076.96	3677.58	2014.78	1170.95	783.34	589.90	476.76	414.59	363 01
130.00	DISCHG	330.72	299.84	275.71	242.80	198.70	173.13	164.35	162.10	160.97	160 05
140.00	DISCHG	159.92	160.58	161.03	160.56	159.77	148.79	129.24	117.32	112.85	111 51
150.00	DISCHG	111.12	111.01	110.98	110.98	110.98	110.98	110.88	105.58	95.89	89 95
160.00	DISCHG	87.71	87.01	86.23	85.39	85.26	85.92	86.45	86.67	86.69	83 16
170.00	DISCHG	76.68	72.91	72.20	72.38	71.95	71.22	71.12	71.79	72.25	71 77
180.00	DISCHG	71.08	68.53	64.38	61.86	60.93	60.68	61.17	61.93	62.04	61 38
190.00	DISCHG	60.85	60.63	60.54	59.19	56.76	55.10	53.77	52.97	53.22	53 90
200.00	DISCHG	53.98	53.32	52.86	53.34	53.98	52.98	50.66	49.21	48.66	48 47
210.00	DISCHG	47.84	47.04	46.92	47.58	48.11	48.33	48.39	47.52	45.91	44 75
220.00	DISCHG	43.61	42.87	43.12	43.80	43.90	43.23	42.78	43.25	43.92	45 58

PROGRAM DATE - FEB. 14, 1974 S/360

**********TABLE TYPE 3 HAS BEEN REPLACED FOR THIS RUN.

EXECUTIVE CONTROL CARD 97 OPERATION LIST PASS= 1

LISTING OF DATA IN CORE

0 -POWERLINE DAM ANALYSIS, SEPT 1985

VELOCITY INCREMENT

1 CTABLE .2000

8	.0000	.0800	.1600	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6900	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300

9 ENDTBL

STRUCT NO.

3 STRUCT 1

	ELEVATION	DISCHARGE	STORAGE
8	1568.2000	.0000	175.0000
8	1570.1000	92.0000	380.0000
8	1572.1000	106.0000	700.0000
8	1574.1000	118.0000	1100.0000
8	1576.1000	130.0000	1600.0000
8	1578.1000	141.0000	2175.0000
8	1580.1000	150.0000	2875.0000
8	1582.1000	159.0000	3675.0000
8	1583.3000	165.0000	4199.9999
8	1584.1000	668.0000	4599.9999
8	1586.1000	4426.0000	5524.9999
8	1588.1000	11084.0000	6724.9999
8	1590.1000	20092.0000	7924.9999

9 ENDTBL

STRUCT NO.

5 STRUCT 7

	ELEVATION	DISCHARGE	STORAGE
8	1967.0000	.0000	.0000
8	1967.5000	16.0000	16.2000
8	1968.0000	46.0000	32.5000
8	1968.5000	87.0000	49.7000
8	1969.0000	88.0000	65.0000
8	1970.5000	91.0000	129.3000
8	1972.1000	94.0000	212.9000
8	1975.2000	100.0000	421.9000
8	1976.7000	103.0000	545.9000
8	1977.8000	105.0000	641.5000
8	1978.3000	106.0000	686.7000
8	1978.8000	106.0000	734.3000
8	1979.3000	107.0000	789.7000
8	1979.8000	108.0000	830.1000
8	1984.5000	1293.0000	1357.7000
8	1987.6000	5512.0000	1774.1000
8	1990.7000	12053.0000	2243.6000
8	1996.7000	31053.0000	3357.9000
8	2000.0000	45388.0000	4029.1000

9 ENDTBL

TIME INCREMENT

4 DIMHYD

8	.0000	.0300	.1000	.1900	.3100
8	.4700	.6600	.8200	.9300	.9900
8	1.0000	.9900	.9300	.8600	.7800
8	.6800	.5600	.4600	.3900	.3300
8	.2800	.2410	.2070	.1740	.1470
8	.1260	.1070	.0910	.0770	.0660
8	.0550	.0470	.0400	.0340	.0290
8	.0250	.0210	.0180	.0150	.0130
8	.0110	.0090	.0080	.0070	.0060
8	.0050	.0040	.0030	.0020	.0010
8	.0000	.0000	.0000	.0000	.0000

9 ENDTBL

COMPUTED PEAK K FACTOR = 484.00

TIME INCREMENT

5 RAINFL 1 .5000

8	.0000	.0080	.0170	.0260	.0350
8	.0450	.0550	.0650	.0760	.0870
8	.0990	.1120	.1250	.1400	.1560
8	.1740	.1940	.2190	.2540	.3030
8	.5150	.5930	.6240	.6540	.6820
8	.7050	.7270	.7480	.7670	.7840
8	.8000	.8160	.8300	.8440	.8570
8	.8700	.8820	.8930	.9050	.9160
8	.9260	.9360	.9460	.9550	.9650

```
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 2                .5000

8                .0000     .0050     .0110     .0160     .0220
8                .0280     .0350     .0410     .0480     .0560
8                .0630     .0710     .0800     .0890     .0980
8                .1090     .1200     .1330     .1470     .1630
8                .1810     .2040     .2350     .2830     .6630
8                .7350     .7720     .7990     .8200     .8380
8                .8540     .8680     .8800     .8910     .9020
8                .9120     .9210     .9290     .9370     .9450
8                .9520     .9590     .9650     .9720     .9780
8                .9840     .9890     .9950    1.0000    1.0000
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 3               2.4000

8                .0000     .0021     .0041     .0062     .0082
8                .0103     .0126     .0148     .0171     .0193
8                .0216     .0241     .0266     .0292     .0317
8                .0342     .0370     .0399     .0427     .0456
8                .0484     .0517     .0549     .0582     .0614
8                .0647     .0686     .0724     .0763     .0801
8                .0840     .0888     .0936     .0984     .1032
8                .1080     .1145     .1210     .1274     .1339
8                .1404     .1509     .1613     .1718     .1822
8                .1927     .2068     .2244     .2481     .2864
8                .6960     .7549     .7840     .8041     .8198
8                .8327     .8406     .8486     .8565     .8645
8                .8724     .8779     .8834     .8889     .8944
8                .8999     .9042     .9085     .9127     .9170
8                .9213     .9248     .9284     .9319     .9355
8                .9390     .9420     .9450     .9481     .9511
8                .9541     .9568     .9594     .9621     .9647
8                .9674     .9698     .9722     .9745     .9769
8                .9793     .9815     .9836     .9858     .9879
8                .9901     .9926     .9951     .9975    1.0000
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 4               2.4000

8                .0000     .0020     .0041     .0061     .0082
8                .0102     .0125     .0147     .0170     .0192
8                .0215     .0240     .0265     .0290     .0314
8                .0339     .0367     .0395     .0424     .0452
8                .0480     .0512     .0544     .0577     .0609
8                .0641     .0679     .0718     .0756     .0795
8                .0833     .0881     .0929     .0976     .1024
```

230.00	DISCHG	48.12	49.65	50.21	50.35	49.82	49.05	48.94	49.60	47.50	43.84
240.00	DISCHG	45.92	43.16	41.88	33.37	24.07	15.82	5.72	.65	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0066 CFS-HRS= 48678.00 ACRE-FT= 4022.75

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
144.83	149.207	1579.92

HYDROGRAPH, TZERO= .00 DELTA T= 1.00 DRAINAGE AREA= 37.59

TIME											
.00	DISCHG	.00	.17	.82	1.94	3.26	4.60	5.92	7.21	8.47	9.67
10.00	DISCHG	10.81	11.91	12.99	14.07	15.15	16.25	17.32	18.33	19.30	20.25
20.00	DISCHG	21.18	22.07	22.91	23.71	24.51	25.31	26.14	26.98	27.83	28.65
30.00	DISCHG	29.45	30.25	31.04	31.79	32.49	33.15	33.78	34.42	35.09	35.82
40.00	DISCHG	36.57	37.34	38.09	38.79	39.46	40.11	40.76	41.38	41.96	42.54
50.00	DISCHG	43.21	43.97	44.74	45.48	46.19	46.90	47.60	48.26	48.88	49.47
60.00	DISCHG	50.07	50.71	51.47	52.34	53.24	54.11	54.95	55.78	56.60	57.37
70.00	DISCHG	58.10	58.80	59.49	60.26	61.20	62.33	63.54	64.73	65.90	67.02
80.00	DISCHG	68.11	69.16	70.17	71.14	72.08	73.12	74.51	76.26	78.15	80.05
90.00	DISCHG	81.89	83.65	85.33	86.95	88.54	90.08	91.58	92.13	92.40	92.76
100.00	DISCHG	93.16	93.58	94.00	94.42	94.84	95.26	95.67	96.09	96.50	96.95
110.00	DISCHG	97.47	98.09	98.81	99.64	100.60	101.73	103.07	104.77	107.04	113.01
120.00	DISCHG	123.79	134.20	141.46	144.34	145.87	146.76	147.33	147.74	148.06	148.31
130.00	DISCHG	148.52	148.70	148.85	148.97	149.04	149.08	149.10	149.12	149.13	149.14
140.00	DISCHG	149.15	149.16	149.18	149.19	149.20	149.21	149.20	149.17	149.13	149.09
150.00	DISCHG	149.05	149.01	148.97	148.93	148.89	148.85	148.81	148.77	148.72	148.66
160.00	DISCHG	148.59	148.53	148.46	148.40	148.33	148.26	148.20	148.13	148.07	148.00
170.00	DISCHG	147.93	147.85	147.77	147.69	147.61	147.53	147.45	147.37	147.29	147.21
180.00	DISCHG	147.13	147.04	146.96	146.87	146.78	146.69	146.60	146.51	146.42	146.33
190.00	DISCHG	146.24	146.14	146.05	145.96	145.87	145.77	145.68	145.58	145.48	145.38
200.00	DISCHG	145.29	145.19	145.09	144.99	144.90	144.80	144.70	144.60	144.50	144.40
210.00	DISCHG	144.29	144.19	144.09	143.98	143.88	143.78	143.68	143.58	143.47	143.37
220.00	DISCHG	143.27	143.16	143.05	142.95	142.84	142.74	142.63	142.52	142.42	142.32
230.00	DISCHG	142.21	142.12	142.02	141.92	141.82	141.72	141.63	141.53	141.43	141.33
240.00	DISCHG	141.22	141.12	141.02	140.86	140.69	140.49	140.29	140.07	139.85	139.63
250.00	DISCHG	139.41	139.19	138.97	138.75	138.53	138.31	138.09	137.88	137.66	137.44
260.00	DISCHG	137.22	137.01	136.79	136.57	136.36	136.14	135.93	135.71	135.50	135.29
270.00	DISCHG	135.07	134.86	134.65	134.43	134.22	134.01	133.80	133.59	133.37	133.16
280.00	DISCHG	132.95	132.74	132.53	132.32	132.11	131.91	131.70	131.49	131.28	131.07
290.00	DISCHG	130.87	130.66	130.45	130.25	130.04	129.81	129.58	129.34	129.11	128.87

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3170 CFS-HRS= 31949.42 ACRE-FT= 2640.30

ENDCMP

STANDARD CONTROL INSTRUCTIONS

```
6 RUNOFF  1  15          6      1.7200     100.0000      .30001 0 0 1 0 1
6 REACH   3 114    6     5   2700.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1  14          6      1.1600     100.0000      .25001 0 0 1 0 1
6 ADDHYD  4  14    5 6 7                                      1 0 0 1 0 1
6 SAVMOV  5  14    7     5
6 RUNOFF  1  16          6      2.2400     100.0000      .59001 0 0 1 0 1
6 ADDHYD  4 114    5 6 7                                      1 0 0 1 0 1
6 REACH   3 113    7     5   4300.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1  13          6      1.3500     100.0000      .21001 0 0 1 0 1
6 ADDHYD  4  13    5 6 7                                      1 0 0 1 0 1
6 REACH   3 112    7     5   4600.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1  12          6      1.4300     100.0000      .45001 0 0 1 0 1
6 ADDHYD  4  12    5 6 7                                      1 0 0 1 0 1
6 REACH   3 111    7     5   1800.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1  11          6       .6300     100.0000      .31001 0 0 1 0 1
6 ADDHYD  4 111    5 6 7                                      1 0 0 1 0 1
6 SAVMOV  5 111    7     5
6 RUNOFF  1  17          6       .2100     100.0000      .23001 0 0 1 0 1
6 ADDHYD  4 117    5 6 7                                      1 1 0 1 0 1
6 SAVMOV  5 117    7     6
6 RESVOR  2      7 6     7   1967.0000                         1 1 0 1 0 1
6 REACH   3 102    7     5  38600.0000        .8000      .00001 0 0 1 0 1
6 RUNOFF  1   2          6      5.8700     100.0000     2.02001 0 0 1 0 1
6 ADDHYD  4 102    5 6 1                                      1 1 0 1 0 1
6 RUNOFF  1   5          6      5.5200     100.0000     1.18001 0 0 1 0 1
6 REACH   3 104    6     5  12500.0000        .7800      .00000 0 0 0 0 0
6 RUNOFF  1   4          6     13.1100     100.0000     2.17001 0 0 1 0 1
6 ADDHYD  4 104    5 6 7                                      1 0 0 1 0 1
6 SAVMOV  5 104    7     5
6 RUNOFF  1   6          6      7.1700     100.0000     1.80001 0 0 1 0 1
6 ADDHYD  4 106    5 6 7                                      1 1 0 1 0 1
6 REACH   3   3    7     5   4000.0000        .7500      .00001 0 0 1 0 1
6 RUNOFF  1   3          6      5.9200     100.0000     1.41001 0 0 1 0 1
6 ADDHYD  4   3    5 6 7                                      1 0 0 1 0 1
6 REACH   3 102    7     5   5500.0000        .7500      .00001 1 0 1 0 1
6 SAVMOV  5 102    1     6
6 ADDHYD  4      1 5 6 4                                      1 1 0 1 0 1
6 RESVOR  2      1 4     7   1568.2000                        1 1 0 1 0 1
  ENDATA
```

END OF LISTING

WEEKS WASH POWERLINE DAM ANALYSIS

VOID DUE TO ERROR IN MAIN TIME INCR. [illegible] } 17. ACT # 3, STORM # 1: PSH FOR TOT POWERLINE DA = 46.33 W/O W. DA

18. ACT # 3, STORM # 4: 6-HOUR ESH FOR TOT. POWERLINE DA=46.33 W/O W. DA

19. ACT # 3, STORM # 5: 6-HOUR FSH " " " "

20. ACT # 3, STORM # 8: 24-HOUR ESH " " " "

21. ACT # 3, STORM # 9 24-HOUR FSH " " " "

22. ACT # 3, STORM # 10: 10 YEAR, 24-HOUR, TYPE II " " "

23. ACT # 3, STORM # 11: 25 YEAR, " " " "

24. ACT # 3, STORM # 12, 100-year, 24-hr, Type II " " "

PROGRAM DATE - FEB. 14, 1974 S/360

****** *TABLE TYPE 3 HAS BEEN REPLACED FOR THIS RUN.

24 Act 5, Storm #1 - 100-year " " " "

place on 1st sheet

EXECUTIVE CONTROL CARD 97 OPERATION LIST

LISTING OF DATA IN CORE

```
0 -POWERLINE DAM ANALYSIS, SEPT 1985

                    VELOCITY INCREMENT
1 CTABLE                .2000

8                .0000      .0800      .1800      .2500      .3200
8                .3700      .4100      .4500      .4900      .5100
8                .5400      .5700      .5900      .6100      .6300
8                .6500      .6600      .6700      .6900      .7000
8                .7100      .7200      .7300      .7400      .7500
8                .7600      .7700      .7700      .7800      .7900
8                .7900      .8000      .8100      .8100      .8200
8                .8200      .8300      .8300      .8400      .8400
8                .8400      .8500      .8500      .8600      .8600
8                .8600      .8600      .8700      .8700      .8700
8                .8800      .8800      .8800      .8900      .8900
8                .8900      .8900      .8900      .8900      .9000
8                .9000      .9000      .9000      .9000      .9100
8                .9100      .9100      .9100      .9100      .9100
8                .9200      .9200      .9200      .9200      .9200
8                .9200      .9200      .9200      .9300      .9300
9 ENDTBL

          STRUCT NO.
3 STRUCT        1

                      ELEVATION    DISCHARGE      STORAGE
8                    1568.2000        .0000     175.0000
8                    1570.1000      92.0000     380.0000
8                    1572.1000     106.0000     700.0000
8                    1574.1000     119.0000    1100.0000
8                    1576.1000     130.0000    1600.0000
8                    1578.1000     141.0000    2175.0000
8                    1580.1000     150.0000    2875.0000
8                    1582.1000     159.0000    3675.0000
8                    1583.3000     165.0000    4199.9999
8                    1584.1000     668.0000    4599.9999
8                    1586.1000    4426.0000    5524.9999
8                    1588.1000   11084.0000    6724.9999
8                    1590.1000   20092.0000    7924.9999
9 ENDTBL

          STRUCT NO.
3 STRUCT        7
```

```
                        ELEVATION   DISCHARGE      STORAG.
8                       1967.0000       .0000        .0000
9 ENDTBL

                    TIME INCREMENT
4 DIMHYD

8                .0000       .0300       .1000       .1700       .3100
8                .4700       .6600       .8200       .9300       .9900
8               1.0000       .9900       .9300       .8600       .7800
8                .6800       .5600       .4600       .3900       .3300
8                .2800       .2410       .2070       .1740       .1470
8                .1260       .1070       .0910       .0770       .0660
8                .0550       .0470       .0400       .0340       .0290
8                .0250       .0210       .0180       .0150       .0130
8                .0110       .0090       .0080       .0070       .0060
8                .0050       .0040       .0030       .0020       .0010
8                .0000       .0000       .0000       .0000       .0000
9 ENDTBL

  COMPUTED PEAK K FACTOR =  484.00

                    TIME INCREMENT
5 RAINFL 1                   .5000

8                .0000       .0080       .0170       .0260       .0350
8                .0450       .0550       .0650       .0760       .0870
8                .0990       .1120       .1250       .1400       .1560
8                .1740       .1940       .2190       .2540       .3030
8                .5150       .5830       .6240       .6540       .6820
8                .7050       .7270       .7480       .7670       .7840
8                .8000       .8160       .8300       .8440       .8570
8                .8700       .8820       .8930       .9050       .9160
8                .9260       .9360       .9460       .9550       .9650
8                .9740       .9830       .9920      1.0000      1.0000
9 ENDTBL

                    TIME INCREMENT
5 RAINFL 2                   .5000

8                .0000       .0050       .0110       .0160       .0220
8                .0280       .0350       .0410       .0480       .0560
8                .0630       .0710       .0800       .0890       .0980
8                .1090       .1200       .1330       .1470       .1630
8                .1810       .2040       .2350       .2830       .6630
8                .7350       .7720       .7990       .8200       .8380
8                .8540       .8680       .8800       .8910       .9020
8                .9120       .9210       .9290       .9370       .9450
8                .9520       .9590       .9650       .9720       .9780
8                .9840       .9890       .9950      1.0000      1.0000
9 ENDTBL
```

```
                    TIME INCREMENT
5 RAINFL 3                2.4000

8               .0000     .0021     .0041     .0062     .0082
8               .0103     .0126     .0148     .0171     .0193
8               .0216     .0241     .0266     .0292     .0317
8               .0342     .0370     .0399     .0427     .0456
8               .0484     .0517     .0549     .0582     .0614
8               .0647     .0686     .0724     .0763     .0801
8               .0840     .0888     .0936     .0984     .1032
8               .1080     .1145     .1210     .1274     .1339
8               .1404     .1509     .1613     .1718     .1822
8               .1927     .2068     .2244     .2481     .2864
8               .6960     .7549     .7940     .8041     .8198
8               .8327     .8406     .8486     .8565     .8645
8               .8724     .8779     .8834     .8889     .8944
8               .8999     .9042     .9085     .9127     .9170
8               .9213     .9248     .9284     .9319     .9355
8               .9390     .9420     .9450     .9481     .9511
8               .9541     .9568     .9594     .9621     .9647
8               .9674     .9698     .9722     .9745     .9769
8               .9793     .9815     .9836     .9858     .9879
8               .9901     .9926     .9951     .9975    1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 4                2.4000

8               .0000     .0020     .0041     .0061     .0082
8               .0102     .0125     .0147     .0170     .0192
8               .0215     .0240     .0265     .0290     .0314
8               .0339     .0367     .0395     .0424     .0452
8               .0480     .0512     .0544     .0577     .0609
8               .0641     .0679     .0718     .0756     .0795
8               .0833     .0881     .0929     .0976     .1024
8               .1072     .1136     .1200     .1265     .1329
8               .1393     .1497     .1601     .1706     .1810
8               .1914     .2055     .2230     .2466     .2848
8               .6776     .7564     .7854     .8054     .8210
8               .8339     .8418     .8497     .8576     .8655
8               .8734     .8789     .8843     .8898     .8952
8               .9007     .9049     .9092     .9134     .9177
8               .9219     .9254     .9289     .9325     .9360
8               .9395     .9425     .9455     .9485     .9515
8               .9545     .9571     .9598     .9624     .9651
8               .9677     .9701     .9724     .9748     .9771
8               .9795     .9816     .9838     .9859     .9881
8               .9902     .9927     .9951     .9975    1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 5                 .2500

8               .0000     .0072     .0152     .0251     .0358
```

```
8                .0538        .0717        .0950        .1211        .4910
8                .6398        .7043        .7661        .810         .8486
8                .8799        .9041        .9274        .9453        .9606
8                .9713        .9821        .9892        .9955       1.0000
9 ENDTBL

                      TIME INCREMENT
5 RAINFL 6                    .5000

8                .0000        .0078        .0150        .0214        .0286
8                .0371        .0457        .0550        .0643        .0750
8                .0864        .0971        .1071        .1250        .1514
8                .1821        .2250        .3214        .4143        .4964
8                .5714        .6421        .6893        .7214        .7500
8                .7750        .7957        .8143        .8314        .8486
8                .8621        .8757        .8879        .9000        .9093
8                .9193        .9286        .9364        .9443        .9514
8                .9593        .9657        .9714        .9786        .9829
8                .9879        .9921        .9964       1.0000       1.0000
9 ENDTBL
```

```
6 RUNOFF 1  15        6      1.7200    100.0000      .30001 0 0 1 0 1
6 REACH  3 114    6   5   2700.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  14        6      1.1600    100.0000      .25001 0 0 1 0 1
6 ADDHYD 4  14    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5  14    7   5
6 RUNOFF 1  16        6      2.2400    100.0000      .50001 0 0 1 0 1
6 ADDHYD 4 114    5 6 7                                  1 0 0 1 0 1
6 REACH  3 113    7   5   4300.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  13        6      1.3500    100.0000      .21001 0 0 1 0 1
6 ADDHYD 4  13    5 6 7                                  1 0 0 1 0 1
6 REACH  3 112    7   5   4600.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  12        6      1.4300    100.0000      .45001 0 0 1 0 1
6 ADDHYD 4  12    5 6 7                                  1 0 0 1 0 1
6 REACH  3 111    7   5   1800.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  11        6       .6300    100.0000      .31001 0 0 1 0 1
6 ADDHYD 4 111    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5 111    7   5
6 RUNOFF 1  17        6       .2100    100.0000      .23001 0 0 1 0 1
6 ADDHYD 4 117    5 6 7                                  1 1 0 1 0 1
6 SAVMOV 5 117    7   6
6 RESVOR 2      7 6   7   1967.0000                       1 1 0 1 0 1
6 REACH  3 102    7   5  38600.0000       .8000      .00001 0 0 1 0 1
6 RUNOFF 1   2        6      5.8700    100.0000     2.02001 0 0 1 0 1
6 ADDHYD 4 102    5 6 1                                  1 1 0 1 0 1
6 RUNOFF 1   5        6      5.5200    100.0000     1.18001 0 0 1 0 1
6 REACH  3 104    6   5  12500.0000       .7800      .00000 0 0 0 0 0
6 RUNOFF 1   4        6     13.1100    100.0000     2.17001 0 0 1 0 1
6 ADDHYD 4 104    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5 104    7   5
6 RUNOFF 1   6        6      7.1700    100.0000     1.80001 0 0 1 0 1
6 ADDHYD 4 106    5 6 7                                  1 1 0 1 0 1
6 REACH  3   3    7   5   4000.0000       .7500      .00001 0 0 1 0 1
6 RUNOFF 1   3        6      5.9200    100.0000     1.41001 0 0 1 0 1
6 ADDHYD 4   3    5 6 7                                  1 0 0 1 0 1
6 REACH  3 102    7   5   5500.0000       .7500      .00001 1 0 1 0 1
6 SAVMOV 5 102    1   6
6 ADDHYD 4      1 5 6 4                                  1 1 0 1 0 1
6 RESVOR 2      1 4   7   1568.2000                      1 1 0 1 0 1
  ENDATA
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END OF LISTING

EXECUTI CONTROL CARD 98 OPERATION INCREM, MA TIME INCREMENT= .10
EXECUTIVE CONTROL CARD 101 OPERATION COMPUT, FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 2.07 RAIN DURATION= 1.00 RAIN TABLE NO.= 4 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 1

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.72 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.74	2.008	(RUNOFF)
9.54	2.008	(RUNOFF)
14.35	2.199	(RUNOFF)
19.14	2.199	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0566 CFS-HRS= 62.83 ACRE-FT= 5.19

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.75	1.355	(RUNOFF)
9.55	1.355	(RUNOFF)
14.35	1.484	(RUNOFF)
19.15	1.484	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0567 CFS-HRS= 42.44 ACRE-FT= 3.51

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.75	3.362	(NULL)
9.55	3.362	(NULL)
14.35	3.482	(NULL)
19.15	3.682	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0565 CFS-HRS= 105.01 ACRE-FT= 8.68

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

4.79	2.613	(RUNOFF)
9.60	2.613	(RUNOFF)
14.39	2.862	(RUNOFF)
19.19	2.862	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0561 CFS-HRS= 81.10 ACRE-FT= 6.70

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.74	5.976	(NULL)
9.55	5.976	(NULL)
14.34	6.544	(NULL)
19.15	6.544	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0563 CFS-HRS= 186.11 ACRE-FT= 15.38

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.75	1.577	(RUNOFF)
9.55	1.577	(RUNOFF)
14.35	1.727	(RUNOFF)
19.15	1.727	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0568 CFS-HRS= 49.45 ACRE-FT= 4.09

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.75	7.551	(NULL)
9.55	7.551	(NULL)
14.35	8.270	(NULL)
19.15	8.270	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0561 CFS-HRS= 234.35 ACRE-FT= 19.37

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12

EA= 1.43 INPUT RUNOFF CURVE= 100.0 TI F CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.80	1.668	(RUNOFF)
9.60	1.668	(RUNOFF)
14.41	1.827	(RUNOFF)
19.20	1.827	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0563 CFS-HRS= 52.00 ACRE-FT= 4.30

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.82	9.218	(NULL)
9.62	9.217	(NULL)
14.43	10.095	(NULL)
19.22	10.095	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0558 CFS-HRS= 284.71 ACRE-FT= 23.53

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.79	.735	(RUNOFF)
9.59	.735	(RUNOFF)
14.40	.805	(RUNOFF)
19.20	.805	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0566 CFS-HRS= 23.01 ACRE-FT= 1.90

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.74	9.953	(NULL)
9.54	9.953	(NULL)
14.35	10.901	(NULL)
19.15	10.901	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0558 CFS-HRS= 306.96 ACRE-FT= 25.37

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 100.0 TIME CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.76	.245	(RUNOFF)
9.57	.245	(RUNOFF)
14.36	.269	(RUNOFF)
19.16	.269	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0567 CFS-HPS= 7.69 ACRE-FT= .64

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.75	10.198	(NULL)
9.54	10.198	(NULL)
14.35	11.169	(NULL)
19.15	11.169	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.15	.67	1.47	2.52	3.68	4.89	6.11	7.20	8.06
1.00	DISCHG	8.66	9.06	9.30	9.45	9.55	9.61	9.64	9.67	9.68	9.69
2.00	DISCHG	9.70	9.71	9.71	9.71	9.71	9.72	9.75	9.79	9.84	9.90
3.00	DISCHG	9.96	10.02	10.07	10.11	10.14	10.16	10.18	10.18	10.19	10.19
4.00	DISCHG	10.19	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.19
5.00	DISCHG	10.16	10.12	10.07	10.01	9.95	9.89	9.84	9.80	9.77	9.75
6.00	DISCHG	9.73	9.73	9.72	9.72	9.72	9.71	9.71	9.71	9.71	9.71
7.00	DISCHG	9.71	9.71	9.71	9.72	9.75	9.79	9.84	9.90	9.96	10.02
8.00	DISCHG	10.07	10.11	10.14	10.16	10.18	10.18	10.19	10.19	10.19	10.20
9.00	DISCHG	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.19	10.16	10.12
10.00	DISCHG	10.07	10.01	9.95	9.89	9.84	9.80	9.76	9.75	9.73	9.72
11.00	DISCHG	9.72	9.72	9.72	9.71	9.71	9.71	9.71	9.71	9.71	9.71
12.00	DISCHG	9.71	9.74	9.81	9.93	10.09	10.27	10.45	10.63	10.79	10.92
13.00	DISCHG	11.01	11.07	11.11	11.13	11.14	11.15	11.16	11.16	11.16	11.17
14.00	DISCHG	11.17	11.17	11.17	11.17	11.17	11.16	11.13	11.09	11.04	10.98
15.00	DISCHG	10.92	10.86	10.81	10.77	10.74	10.72	10.70	10.70	10.69	10.69
16.00	DISCHG	10.69	10.69	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.69
17.00	DISCHG	10.72	10.76	10.81	10.87	10.93	10.99	11.04	11.09	11.12	11.14
18.00	DISCHG	11.15	11.16	11.16	11.16	11.17	11.17	11.17	11.17	11.17	11.17
19.00	DISCHG	11.17	11.17	11.17	11.16	11.13	11.09	11.04	10.98	10.92	10.86
20.00	DISCHG	10.81	10.77	10.74	10.72	10.70	10.70	10.69	10.69	10.69	10.69
21.00	DISCHG	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.69	10.72	10.76
22.00	DISCHG	10.81	10.87	10.93	10.99	11.04	11.09	11.12	11.14	11.15	11.16
23.00	DISCHG	11.16	11.16	11.17	11.17	11.17	11.17	11.17	11.17	11.17	11.17
24.00	DISCHG	11.17	11.19	11.24	11.32	11.42	11.54	11.66	11.78	11.89	11.97
25.00	DISCHG	12.03	12.07	12.10	12.11	12.12	12.13	12.13	12.14	12.14	12.14
26.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14
27.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14
28.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14
29.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0558 CFS-HPS= 314.65 ACRE-FT= 26.00

SUBROUTINE SAVMOV CROSS SECTION 117

INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.75	10.198	(NULL)
9.54	10.198	(NULL)
14.35	11.169	(NULL)
19.15	11.169	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.15	.67	1.47	2.52	3.68	4.89	6.11	7.20	8.06
1.00	DISCHG	8.66	9.06	9.30	9.45	9.55	9.61	9.64	9.67	9.68	9.69
2.00	DISCHG	9.70	9.71	9.71	9.71	9.71	9.72	9.75	9.79	9.84	9.90
3.00	DISCHG	9.96	10.02	10.07	10.11	10.14	10.16	10.18	10.18	10.19	10.19
4.00	DISCHG	10.19	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.19
5.00	DISCHG	10.16	10.12	10.07	10.01	9.95	9.89	9.84	9.80	9.77	9.75
6.00	DISCHG	9.73	9.73	9.72	9.72	9.72	9.71	9.71	9.71	9.71	9.71
7.00	DISCHG	9.71	9.71	9.71	9.72	9.75	9.79	9.84	9.90	9.96	10.02
8.00	DISCHG	10.07	10.11	10.14	10.16	10.18	10.18	10.19	10.19	10.19	10.20
9.00	DISCHG	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.19	10.16	10.12
10.00	DISCHG	10.07	10.01	9.95	9.89	9.84	9.80	9.76	9.75	9.73	9.72
11.00	DISCHG	9.72	9.72	9.72	9.71	9.71	9.71	9.71	9.71	9.71	9.71
12.00	DISCHG	9.71	9.74	9.81	9.93	10.09	10.27	10.45	10.63	10.79	10.92
13.00	DISCHG	11.01	11.07	11.11	11.13	11.14	11.15	11.16	11.16	11.16	11.17
14.00	DISCHG	11.17	11.17	11.17	11.17	11.17	11.16	11.13	11.09	11.04	10.98
15.00	DISCHG	10.92	10.86	10.81	10.77	10.74	10.72	10.70	10.70	10.69	10.69
16.00	DISCHG	10.69	10.69	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.69
17.00	DISCHG	10.72	10.76	10.81	10.87	10.93	10.99	11.04	11.09	11.12	11.14
18.00	DISCHG	11.15	11.16	11.16	11.16	11.17	11.17	11.17	11.17	11.17	11.17
19.00	DISCHG	11.17	11.17	11.17	11.16	11.13	11.09	11.04	10.98	10.92	10.86
20.00	DISCHG	10.81	10.77	10.74	10.72	10.70	10.70	10.69	10.69	10.69	10.69
21.00	DISCHG	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.69	10.72	10.76
22.00	DISCHG	10.81	10.87	10.93	10.99	11.04	11.09	11.12	11.14	11.15	11.16
23.00	DISCHG	11.16	11.16	11.17	11.17	11.17	11.17	11.17	11.17	11.17	11.17
24.00	DISCHG	11.17	11.19	11.24	11.32	11.42	11.54	11.66	11.78	11.89	11.97
25.00	DISCHG	12.03	12.07	12.10	12.11	12.12	12.13	12.13	12.14	12.14	12.14
26.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14
27.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14
28.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14
29.00	DISCHG	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14	12.14

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0558 CFS-HRS= 314.65 ACRE-FT= 26.00

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
6.18	10.196	(NULL)
10.97	10.196	(NULL)
15.78	11.166	(NULL)
20.58	11.167	(NULL)

AL WATER, IN INCHES ON DRAINAGE AREA= .0524 CFS-HRS= 295.55 ACRE-FT= 24.

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.41	6.767	(RUNOFF)
9.92	6.803	(RUNOFF)
15.10	7.386	(RUNOFF)
19.61	7.452	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0536 CFS-HRS= 203.20 ACRE-FT= 16.79

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.45	16.955	(NULL)
10.13	16.976	(NULL)
15.21	18.536	(NULL)
19.75	18.600	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.61

TIME											
.00	DISCHG	.00	.05	.10	.15	.27	.43	.60	.78	1.08	1.39
1.00	DISCHG	1.70	2.04	2.39	2.75	3.13	3.54	4.08	4.80	5.67	6.70
2.00	DISCHG	7.89	9.15	10.36	11.52	12.56	13.41	14.08	14.61	15.00	15.28
3.00	DISCHG	15.49	15.65	15.77	15.87	15.95	16.02	16.08	16.13	16.19	16.23
4.00	DISCHG	16.28	16.33	16.40	16.46	16.53	16.61	16.68	16.74	16.80	16.85
5.00	DISCHG	16.89	16.92	16.94	16.95	16.95	16.95	16.95	16.94	16.93	16.92
6.00	DISCHG	16.91	16.89	16.88	16.86	16.83	16.80	16.76	16.71	16.65	16.58
7.00	DISCHG	16.52	16.47	16.42	16.38	16.35	16.33	16.31	16.31	16.31	16.31
8.00	DISCHG	16.31	16.33	16.34	16.35	16.37	16.38	16.40	16.42	16.45	16.48
9.00	DISCHG	16.52	16.57	16.63	16.69	16.76	16.81	16.86	16.90	16.93	16.95
10.00	DISCHG	16.97	16.98	16.98	16.97	16.97	16.95	16.94	16.93	16.91	16.90
11.00	DISCHG	16.88	16.86	16.84	16.80	16.76	16.71	16.65	16.59	16.53	16.47
12.00	DISCHG	16.42	16.38	16.36	16.35	16.34	16.35	16.37	16.40	16.42	16.47
13.00	DISCHG	16.51	16.56	16.61	16.66	16.71	16.77	16.85	16.96	17.09	17.25
14.00	DISCHG	17.42	17.61	17.79	17.96	18.11	18.24	18.34	18.41	18.46	18.50
15.00	DISCHG	18.52	18.53	18.54	18.53	18.53	18.52	18.51	18.50	18.48	18.47
16.00	DISCHG	18.44	18.41	18.37	18.32	18.26	18.20	18.14	18.09	18.04	18.00
17.00	DISCHG	17.97	17.95	17.93	17.93	17.93	17.93	17.94	17.95	17.96	17.98
18.00	DISCHG	17.99	18.01	18.02	18.04	18.07	18.10	18.15	18.20	18.26	18.32
19.00	DISCHG	18.38	18.44	18.48	18.53	18.56	18.58	18.59	18.60	18.60	18.59
20.00	DISCHG	18.59	18.58	18.56	18.55	18.54	18.52	18.50	18.48	18.46	18.42
21.00	DISCHG	18.38	18.33	18.27	18.21	18.15	18.09	18.04	18.00	17.97	17.95
22.00	DISCHG	17.94	17.93	17.93	17.93	17.94	17.95	17.96	17.98	17.99	18.01
23.00	DISCHG	18.02	18.04	18.07	18.10	18.15	18.20	18.26	18.32	18.38	18.44
24.00	DISCHG	18.49	18.54	18.57	18.61	18.64	18.67	18.69	18.73	18.76	18.79
25.00	DISCHG	18.82	18.86	18.90	18.93	18.97	19.01	19.07	19.14	19.23	19.33
26.00	DISCHG	19.45	19.58	19.70	19.82	19.92	20.00	20.07	20.13	20.16	20.19
27.00	DISCHG	20.21	20.23	20.24	20.25	20.26	20.26	20.26	20.27	20.27	20.27
28.00	DISCHG	20.28	20.28	20.28	20.28	20.28	20.28	20.29	20.29	20.29	20.29
29.00	DISCHG	20.29	20.29	20.29	20.29	20.29	20.29	20.29	20.29	20.29	20.29

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0529 CFS-HRS= 498.76 ACRE-FT= 41.22

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.78	6.433	(RUNOFF)
9.64	6.432	(RUNOFF)
14.50	7.033	(RUNOFF)
19.30	7.044	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0551 CFS-HRS= 196.24 ACRE-FT= 16.22

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.54	15.067	(RUNOFF)
9.99	15.178	(RUNOFF)
15.16	16.466	(RUNOFF)
19.65	16.632	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0534 CFS-HRS= 451.65 ACRE-FT= 37.32

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.42	21.495	(NULL)
10.00	21.608	(NULL)
15.12	23.493	(NULL)
19.66	23.677	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0535 CFS-HRS= 643.52 ACRE-FT= 53.18

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.16	8.303	(RUNOFF)
9.84	8.324	(RUNOFF)
14.55	9.065	(RUNOFF)
19.30	9.120	(RUNOFF)

AL WATER, IN INCHES ON DRAINAGE AREA= .0540 CFS-HRS= 249.96 ACRE-FT= 20.

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.24	29.792	(NULL)
9.94	29.926	(NULL)
14.88	32.545	(NULL)
19.63	32.786	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.18	.35	.53	.92	1.51	2.12	2.95	4.05	5.38
1.00	DISCHG	6.85	8.42	10.13	11.85	13.55	15.21	16.70	18.08	19.41	20.54
2.00	DISCHG	21.47	22.36	23.19	23.82	24.37	24.89	25.37	25.75	26.10	26.43
3.00	DISCHG	26.74	27.01	27.27	27.52	27.76	27.97	28.18	28.40	28.57	28.73
4.00	DISCHG	28.90	29.04	29.16	29.27	29.37	29.46	29.53	29.59	29.66	29.70
5.00	DISCHG	29.74	29.76	29.79	29.79	29.78	29.77	29.74	29.69	29.64	29.58
6.00	DISCHG	29.51	29.43	29.36	29.29	29.22	29.16	29.10	29.05	29.01	28.97
7.00	DISCHG	28.93	28.90	28.88	28.86	28.85	28.85	28.85	28.86	28.88	28.92
8.00	DISCHG	28.96	29.02	29.08	29.15	29.23	29.30	29.38	29.46	29.53	29.60
9.00	DISCHG	29.66	29.71	29.76	29.80	29.83	29.86	29.89	29.91	29.92	29.93
10.00	DISCHG	29.92	29.91	29.89	29.85	29.82	29.76	29.69	29.62	29.55	29.47
11.00	DISCHG	29.39	29.31	29.24	29.18	29.11	29.06	29.01	28.97	28.94	28.90
12.00	DISCHG	28.89	28.89	28.89	28.90	28.96	29.03	29.10	29.22	29.39	29.57
13.00	DISCHG	29.77	30.00	30.24	30.49	30.73	30.97	31.19	31.40	31.59	31.75
14.00	DISCHG	31.90	32.03	32.14	32.23	32.32	32.40	32.44	32.49	32.52	32.55
15.00	DISCHG	32.54	32.54	32.52	32.48	32.43	32.38	32.31	32.25	32.18	32.11
16.00	DISCHG	32.05	31.99	31.94	31.89	31.84	31.81	31.77	31.74	31.72	31.71
17.00	DISCHG	31.70	31.69	31.70	31.72	31.74	31.77	31.82	31.87	31.94	32.01
18.00	DISCHG	32.09	32.17	32.25	32.32	32.39	32.46	32.53	32.58	32.62	32.67
19.00	DISCHG	32.70	32.73	32.76	32.78	32.79	32.79	32.79	32.78	32.76	32.72
20.00	DISCHG	32.68	32.63	32.56	32.49	32.41	32.34	32.26	32.18	32.11	32.04
21.00	DISCHG	31.98	31.93	31.88	31.84	31.80	31.77	31.74	31.73	31.72	31.70
22.00	DISCHG	31.71	31.73	31.74	31.77	31.82	31.88	31.94	32.01	32.09	32.17
23.00	DISCHG	32.25	32.33	32.40	32.47	32.53	32.58	32.63	32.67	32.71	32.74
24.00	DISCHG	32.78	32.81	32.85	32.90	32.96	33.02	33.10	33.20	33.32	33.45
25.00	DISCHG	33.60	33.77	33.94	34.11	34.28	34.44	34.60	34.74	34.87	34.99
26.00	DISCHG	35.09	35.18	35.26	35.33	35.39	35.44	35.49	35.53	35.57	35.59
27.00	DISCHG	35.62	35.65	35.67	35.69	35.70	35.72	35.73	35.74	35.76	35.77
28.00	DISCHG	35.77	35.78	35.79	35.79	35.80	35.80	35.81	35.81	35.81	35.82
29.00	DISCHG	35.82	35.82	35.82	35.82	35.83	35.83	35.83	35.83	35.83	35.83

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0537 CFS-HRS= 893.48 ACRE-FT= 73.84

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.50	29.786	(NULL)
10.14	29.923	(NULL)
15.19	32.539	(NULL)
19.73	32.787	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0532 CFS-HRS= 885.81 ACRE-FT= 7[illegible]0

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 100.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.83	6.890	(RUNOFF)
9.80	6.985	(RUNOFF)
14.62	7.520	(RUNOFF)
19.20	7.549	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0547 CFS-HRS= 208.95 ACRE-FT= 17.27

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.36	36.620	(NULL)
9.94	36.786	(NULL)
15.05	40.000	(NULL)
19.57	40.312	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0535 CFS-HRS= 1094.77 ACRE-FT= 90.47

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.64	36.611	(NULL)
10.26	36.780	(NULL)
15.35	39.990	(NULL)
19.85	40.304	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.03	.11	.28	.58	.98	1.58	2.38
1.00	DISCHG	3.35	4.51	5.87	7.43	9.16	11.01	12.94	14.90	16.85	18.75
2.00	DISCHG	20.53	22.20	23.73	25.13	26.36	27.45	28.42	29.27	30.00	30.64
3.00	DISCHG	31.22	31.72	32.17	32.58	32.96	33.31	33.63	33.93	34.21	34.48
4.00	DISCHG	34.73	34.96	35.18	35.38	35.56	35.73	35.88	36.01	36.13	36.23
5.00	DISCHG	36.33	36.40	36.47	36.53	36.57	36.59	36.61	36.61	36.59	36.56
6.00	DISCHG	36.52	36.47	36.41	36.33	36.26	36.17	36.09	36.01	35.93	35.85
7.00	DISCHG	35.79	35.72	35.67	35.62	35.57	35.54	35.51	35.49	35.48	35.48
8.00	DISCHG	35.49	35.51	35.54	35.59	35.64	35.71	35.78	35.87	35.95	36.04
9.00	DISCHG	36.13	36.22	36.30	36.38	36.46	36.52	36.58	36.63	36.68	36.72
10.00	DISCHG	36.75	36.77	36.78	36.78	36.77	36.75	36.72	36.67	36.62	36.55
11.00	DISCHG	36.47	36.39	36.30	36.21	36.12	36.04	35.95	35.87	35.80	35.73
12.00	DISCHG	35.67	35.62	35.58	35.55	35.53	35.53	35.55	35.59	35.66	35.76
13.00	DISCHG	35.89	36.05	36.24	36.47	36.71	36.97	37.25	37.53	37.82	38.09
14.00	DISCHG	38.35	38.59	38.82	39.02	39.21	39.37	39.51	39.63	39.74	39.82
15.00	DISCHG	39.89	39.94	39.97	39.99	39.99	39.97	39.94	39.90	39.85	39.78
16.00	DISCHG	39.71	39.63	39.56	39.48	39.41	39.34	39.27	39.21	39.16	39.11
17.00	DISCHG	39.07	39.03	39.01	38.99	38.98	38.98	39.00	39.02	39.05	39.10

18.00	DISCHG	39.16	39.22	39.30	39.38	39.47	39.56	39.65	39.74	39.83	39.91
19.00	DISCHG	39.98	40.05	40.11	40.16	40.20	40.24	40.27	40.29	40.30	40.30
20.00	DISCHG	40.29	40.27	40.24	40.19	40.14	40.07	40.00	39.92	39.83	39.74
21.00	DISCHG	39.65	39.56	39.48	39.40	39.33	39.26	39.20	39.15	39.10	39.06
22.00	DISCHG	39.03	39.01	39.00	39.00	39.01	39.03	39.06	39.11	39.16	39.23
23.00	DISCHG	39.31	39.39	39.48	39.57	39.66	39.75	39.83	39.91	39.98	40.05
24.00	DISCHG	40.11	40.16	40.21	40.26	40.30	40.35	40.41	40.48	40.56	40.66
25.00	DISCHG	40.77	40.90	41.05	41.21	41.39	41.58	41.78	41.97	42.17	42.36
26.00	DISCHG	42.54	42.71	42.87	43.01	43.14	43.25	43.35	43.43	43.51	43.58
27.00	DISCHG	43.63	43.68	43.73	43.77	43.80	43.83	43.86	43.88	43.90	43.92
28.00	DISCHG	43.94	43.95	43.96	43.98	43.99	43.99	44.00	44.01	44.01	44.02
29.00	DISCHG	44.02	44.03	44.03	44.04	44.04	44.04	44.04	44.05	44.05	44.05

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0528 CFS-HRS= 1081.87 ACRE-FT= 89.41

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.60	53.559	1569.31
10.23	53.754	1569.31
15.32	58.523	1569.41
19.82	58.903	1569.42

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	.05	.10	.18	.37	.72	1.18	1.76	2.66	3.77
1.00	DISCHG	5.05	6.55	8.27	10.18	12.29	14.54	17.01	19.70	22.52	25.45
2.00	DISCHG	28.42	31.35	34.10	36.65	38.92	40.86	42.50	43.87	45.00	45.92
3.00	DISCHG	46.70	47.37	47.94	48.45	48.91	49.33	49.71	50.06	50.40	50.71
4.00	DISCHG	51.00	51.30	51.57	51.84	52.09	52.34	52.56	52.75	52.93	53.09
5.00	DISCHG	53.21	53.32	53.41	53.47	53.52	53.55	53.56	53.55	53.52	53.48
6.00	DISCHG	53.43	53.36	53.28	53.19	53.09	52.97	52.84	52.71	52.58	52.44
7.00	DISCHG	52.31	52.19	52.08	51.99	51.92	51.86	51.82	51.79	51.78	51.78
8.00	DISCHG	51.80	51.84	51.88	51.94	52.01	52.09	52.18	52.29	52.40	52.52
9.00	DISCHG	52.66	52.79	52.94	53.08	53.21	53.33	53.44	53.54	53.61	53.67
10.00	DISCHG	53.71	53.74	53.75	53.75	53.74	53.70	53.66	53.60	53.53	53.45
11.00	DISCHG	53.36	53.25	53.14	53.02	52.88	52.74	52.60	52.46	52.33	52.21
12.00	DISCHG	52.10	52.01	51.94	51.89	51.87	51.88	51.92	51.99	52.08	52.23
13.00	DISCHG	52.40	52.61	52.85	53.12	53.42	53.75	54.10	54.49	54.91	55.33
14.00	DISCHG	55.77	56.20	56.61	56.99	57.32	57.61	57.85	58.04	58.20	58.32
15.00	DISCHG	58.41	58.47	58.51	58.52	58.51	58.49	58.45	58.40	58.33	58.25
16.00	DISCHG	58.15	58.05	57.93	57.80	57.67	57.54	57.41	57.30	57.19	57.11
17.00	DISCHG	57.04	56.98	56.94	56.92	56.91	56.92	56.93	56.97	57.02	57.08
18.00	DISCHG	57.15	57.23	57.32	57.43	57.54	57.67	57.80	57.94	58.08	58.22
19.00	DISCHG	58.36	58.48	58.59	58.68	58.76	58.82	58.86	58.89	58.90	58.90
20.00	DISCHG	58.88	58.85	58.80	58.74	58.67	58.59	58.50	58.40	58.29	58.16
21.00	DISCHG	58.03	57.89	57.75	57.61	57.47	57.35	57.24	57.15	57.07	57.01
22.00	DISCHG	56.97	56.94	56.93	56.93	56.95	56.98	57.03	57.08	57.15	57.24
23.00	DISCHG	57.33	57.43	57.55	57.67	57.80	57.95	58.09	58.23	58.36	58.49
24.00	DISCHG	58.60	58.70	58.78	58.87	58.94	59.02	59.10	59.21	59.32	59.45
25.00	DISCHG	59.60	59.76	59.95	60.15	60.36	60.59	60.85	61.11	61.40	61.70
26.00	DISCHG	62.00	62.29	62.57	62.83	63.06	63.25	63.42	63.56	63.67	63.77

27.00	DISCHG	63.85	63.91	63.97	64.02	64.06	64.09	64.12	64.15	64.17	64.20
28.00	DISCHG	64.21	64.23	64.24	64.26	64.27	64.28	64.29	64.30	64.30	64.31
29.00	DISCHG	64.31	64.32	64.32	64.33	64.33	64.33	64.33	64.34	64.34	64.34

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0529 CFS-HRS= 1580.63 ACRE-FT= 130.62

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES PEAK DISCHARGES PEAK ELEVATIONS
NO PEAK FOUND, MAXIMUM DISCHARGE.= 37.218 CFS.

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.01	.02	.03
1.00	DISCHG	.05	.07	.10	.13	.17	.22	.28	.35	.42	.51
2.00	DISCHG	.61	.72	.83	.96	1.10	1.24	1.39	1.55	1.71	1.87
3.00	DISCHG	2.03	2.20	2.37	2.54	2.71	2.88	3.05	3.23	3.40	3.57
4.00	DISCHG	3.75	3.92	4.10	4.28	4.45	4.63	4.81	4.98	5.16	5.34
5.00	DISCHG	5.52	5.69	5.87	6.04	6.22	6.40	6.57	6.74	6.92	7.09
6.00	DISCHG	7.26	7.43	7.60	7.77	7.94	8.11	8.27	8.44	8.60	8.76
7.00	DISCHG	8.92	9.08	9.24	9.40	9.56	9.72	9.87	10.03	10.18	10.34
8.00	DISCHG	10.49	10.64	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.86
9.00	DISCHG	12.01	12.16	12.31	12.46	12.61	12.76	12.91	13.06	13.21	13.36
10.00	DISCHG	13.51	13.66	13.81	13.95	14.10	14.25	14.39	14.54	14.68	14.83
11.00	DISCHG	14.97	15.11	15.25	15.39	15.53	15.67	15.81	15.94	16.08	16.21
12.00	DISCHG	16.35	16.48	16.61	16.74	16.87	17.00	17.13	17.26	17.39	17.52
13.00	DISCHG	17.64	17.77	17.90	18.03	18.16	18.29	18.43	18.56	18.69	18.83
14.00	DISCHG	18.96	19.10	19.24	19.38	19.52	19.66	19.80	19.94	20.08	20.22
15.00	DISCHG	20.36	20.50	20.65	20.79	20.93	21.06	21.20	21.34	21.48	21.61
16.00	DISCHG	21.75	21.88	22.02	22.15	22.28	22.41	22.54	22.67	22.80	22.93
17.00	DISCHG	23.05	23.18	23.30	23.43	23.55	23.68	23.80	23.92	24.04	24.17
18.00	DISCHG	24.29	24.41	24.53	24.65	24.77	24.90	25.02	25.14	25.26	25.38
19.00	DISCHG	25.50	25.63	25.75	25.87	25.99	26.11	26.23	26.36	26.48	26.60
20.00	DISCHG	26.72	26.83	26.95	27.07	27.19	27.30	27.42	27.53	27.65	27.76
21.00	DISCHG	27.87	27.99	28.10	28.21	28.31	28.42	28.53	28.64	28.74	28.85
22.00	DISCHG	28.95	29.05	29.16	29.26	29.36	29.46	29.57	29.67	29.77	29.87
23.00	DISCHG	29.97	30.07	30.18	30.28	30.38	30.48	30.58	30.68	30.79	30.89
24.00	DISCHG	30.99	31.09	31.20	31.30	31.40	31.50	31.60	31.71	31.81	31.91
25.00	DISCHG	32.01	32.12	32.22	32.32	32.42	32.53	32.63	32.74	32.84	32.95
26.00	DISCHG	33.06	33.16	33.27	33.38	33.49	33.60	33.71	33.82	33.93	34.04
27.00	DISCHG	34.15	34.26	34.37	34.48	34.59	34.70	34.81	34.92	35.03	35.13
28.00	DISCHG	35.24	35.35	35.46	35.56	35.67	35.77	35.88	35.98	36.09	36.19
29.00	DISCHG	36.30	36.40	36.51	36.61	36.71	36.81	36.91	37.02	37.12	37.22

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0193 CFS-HRS= 577.14 ACRE-FT= 47.69

ENDCMP

CHANGES TO STANDARD CONTROL LIST FOLLOW
EXECUTIVE CONTROL CARD 103 OPERATION ALTER

```
STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  15      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=            1.7200      83.0000         .3000
OUTPUT OPTION= 1 0 0 1 0 1ID=       104

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  14      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=            1.1600      82.0000         .2500
OUTPUT OPTION= 1 0 0 1 0 1ID=       105

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  16      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=            2.2400      85.0000         .5900
OUTPUT OPTION= 1 0 0 1 0 1ID=       106

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  13      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=            1.3500      86.0000         .2100
OUTPUT OPTION= 1 0 0 1 0 1ID=       107

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  12      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=            1.4300      89.0000         .4500
OUTPUT OPTION= 1 0 0 1 0 1ID=       108

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  11      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=             .6300      85.0000         .3100
OUTPUT OPTION= 1 0 0 1 0 1ID=       109

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  17      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=             .2100      82.0000         .2300
OUTPUT OPTION= 1 0 0 1 0 1ID=       110

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   2      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=            5.8700      79.0000        2.0200
OUTPUT OPTION= 1 0 0 1 0 1ID=       111

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   5      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=            5.5200      84.0000        1.1800
OUTPUT OPTION= 1 0 0 1 0 1ID=       112

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   4      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=           13.1100      84.0000        2.1700
OUTPUT OPTION= 1 0 0 1 0 1ID=       113

STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   6      STRUCTURE=  0
IN1 HYD=0       IN2 HYD=0       OUT HYD=6       DATA FIELDS=            7.1700      82.0000        1.8000
OUTPUT OPTION= 1 0 0 1 0 1ID=       114
```

```
STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,     CROSS-SECTION=    3      STRUCTURE=   0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          5.9200      81.0000      1.4100
OUTPUT OPTION= 1 0 0 1 0 1ID=       115
```

LISTING OF DATA IN CORE

0 -POWERLINE DAM ANALYSIS, SEPT 1985

```
                    VELOCITY INCREMENT
1 CTABLE                .2000

8                .0000      .0800      .1800      .2500      .3200
8                .3700      .4100      .4500      .4900      .5100
8                .5400      .5700      .5900      .6100      .6300
8                .6500      .6600      .6700      .6900      .7000
8                .7100      .7200      .7300      .7400      .7500
8                .7600      .7700      .7700      .7800      .7900
8                .7900      .8000      .8100      .8100      .8200
8                .8200      .8300      .8300      .8400      .8400
8                .8400      .8500      .8500      .8600      .8600
8                .8600      .8600      .8700      .8700      .8700
8                .8800      .8800      .8800      .8900      .8900
8                .8900      .8900      .8900      .8900      .9000
8                .9000      .9000      .9000      .9000      .9100
8                .9100      .9100      .9100      .9100      .9100
8                .9200      .9200      .9200      .9200      .9200
8                .9200      .9200      .9200      .9300      .9300
9 ENDTBL

        STRUCT NO.
3 STRUCT        1

                      ELEVATION   DISCHARGE     STORAGE
8                     1568.2000       .0000    175.0000
8                     1570.1000     92.0000    380.0000
8                     1572.1000    106.0000    700.0000
8                     1574.1000    119.0000   1100.0000
8                     1576.1000    130.0000   1600.0000
8                     1578.1000    141.0000   2175.0000
8                     1580.1000    150.0000   2875.0000
8                     1582.1000    159.0000   3675.0000
8                     1583.3000    165.0000   4199.9999
8                     1584.1000    668.0000   4599.9999
8                     1586.1000   4426.0000   5524.9999
8                     1588.1000  11084.0000   6724.9999
8                     1590.1000  20092.0000   7924.9999
9 ENDTBL

        STRUCT NO.
3 STRUCT        7
```

SUBROUTINE R[illegible]OR STRUCTURE 7
[illegible]FACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.86	10976.180	(NULL)

TIME					HYDROGRAPH, TZERO= .00		DELTA T= .10		DRAINAGE AREA= 8.74		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.03	.44	2.27	7.06	16.97	35.86	66.85
2.00	DISCHG	116.24	389.90	1413.59	3314.30	5544.72	7591.49	9163.46	10221.56	10868.68	10929.14
3.00	DISCHG	10396.82	9489.83	8420.43	7387.59	6494.00	5771.36	5190.72	4701.22	4285.89	3920.77
4.00	DISCHG	3597.15	3312.34	3061.76	2845.25	2647.66	2465.30	2298.40	2145.04	2005.05	1865.78
5.00	DISCHG	1725.22	1589.68	1464.85	1354.45	1250.35	1150.18	1055.87	969.75	892.70	818.53
6.00	DISCHG	745.89	672.03	590.64	505.80	418.91	334.60	257.09	187.56	129.37	85.19
7.00	DISCHG	54.42	34.29	21.58	13.64	8.65	5.50	3.51	2.25	1.42	.88
8.00	DISCHG	.52	.29	.15	.06	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9843 CFS-HRS= 16832.82 ACRE-FT= 1391.06

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.44	9935.599	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9843 CFS-HRS= 16833.06 ACRE-FT= 1391.08

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.82	3300.615	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.4478 CFS-HRS= 9273.02 ACRE-FT= 766.32

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDPOGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.41	12759.197	(NULL)

TIME					HYDROGRAPH, TZERO= .00		DELTA T= .10		DRAINAGE AREA= 14.61		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	5.63	13.84
2.00	DISCHG	22.05	49.71	145.21	240.71	336.21	532.95	761.66	990.46	1246.63	1567.64
3.00	DISCHG	1890.24	2215.83	2465.59	2711.85	3006.20	3388.21	3956.71	4905.95	6234.13	7711.46
4.00	DISCHG	9251.29	10677.62	11799.09	12495.48	12756.22	12590.58	12072.65	11309.11	10419.45	9511.17
5.00	DISCHG	8651.96	7870.57	7176.44	6572.13	6037.70	5561.73	5141.99	4768.14	4428.12	4117.17
6.00	DISCHG	3838.03	3577.73	3332.53	3105.06	2888.99	2679.70	2479.02	2292.42	2113.63	1942.36
7.00	DISCHG	1785.35	1637.87	1497.15	1365.57	1246.58	1129.90	1013.37	904.41	795.87	686.79
8.00	DISCHG	582.26	487.33	398.79	318.92	254.36	201.01	157.56	124.13	99.52	79.93
9.00	DISCHG	63.94	53.80	45.42	38.11	32.45	28.21	24.24	20.51	18.10	15.78

10.00	DISCHG	13.50	11.72	10.2[illegible]	8.86	7.51	6.61	5.71	4.81	4.12	3.56
11.00	DISCHG	2.99	2.47	2.12	1.78	1.44	1.20	.99	.79	.61	.49
12.00	DISCHG	.37	.26	.1[illegible]	.13	.08	.04	.02	.01	.00	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7687 CFS-HRS= 26106.09 ACRE-FT= 2157.41

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.11	5174.720	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8920 CFS-HRS= 10302.48 ACRE-FT= 851.40

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.82	8264.541	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8930 CFS-HRS= 24476.87 ACRE-FT= 2022.77

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.74	13297.223	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8927 CFS-HRS= 34779.35 ACRE-FT= 2874.17

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.68	4812.259	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7112 CFS-HRS= 12545.50 ACRE-FT= 1036.76

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

```
                          ELEVATION   DISCHARGE     STORAGE
8                         1967.0000       .0000       .0000
9 ENDTBL


                    TIME INCREMENT
4 DIMHYD

8                .0000       .0300       .1000       .1900       .3100
8                .4700       .6600       .8200       .9300       .9900
8               1.0000       .9900       .9300       .8600       .7800
8                .6800       .5600       .4600       .3900       .3300
8                .2800       .2410       .2070       .1740       .1470
8                .1260       .1070       .0910       .0770       .0660
8                .0550       .0470       .0400       .0340       .0290
8                .0250       .0210       .0180       .0150       .0130
8                .0110       .0090       .0080       .0070       .0060
8                .0050       .0040       .0030       .0020       .0010
8                .0000       .0000       .0000       .0000       .0000
9 ENDTBL

  COMPUTED PEAK K FACTOR =  484.00


                    TIME INCREMENT
5 RAINFL 1                   .5000

8                .0000       .0080       .0170       .0260       .0350
8                .0450       .0550       .0650       .0760       .0870
8                .0990       .1120       .1250       .1400       .1560
8                .1740       .1940       .2190       .2540       .3030
8                .5150       .5830       .6240       .6540       .6820
8                .7050       .7270       .7480       .7670       .7840
8                .8000       .8160       .8300       .8440       .8570
8                .8700       .8820       .8930       .9050       .9160
8                .9260       .9360       .9460       .9550       .9650
8                .9740       .9830       .9920      1.0000      1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 2                   .5000

8                .0000       .0050       .0110       .0160       .0220
8                .0280       .0350       .0410       .0480       .0560
8                .0630       .0710       .0800       .0890       .0980
8                .1090       .1200       .1330       .1470       .1630
8                .1810       .2040       .2350       .2830       .6630
8                .7350       .7720       .7990       .8200       .8380
8                .8540       .8680       .8800       .8910       .9020
8                .9120       .9210       .9290       .9370       .9450
8                .9520       .9590       .9650       .9720       .9780
8                .9840       .9890       .9950      1.0000      1.0000
9 ENDTBL
```

```
                    TIME INCREMENT
5 RAINFL 3                2.4000

8              .0000     .0021     .0041     .0062     .0082
8              .0103     .0126     .0148     .0171     .0193
8              .0216     .0241     .0266     .0292     .0317
8              .0342     .0370     .0399     .0427     .0456
8              .0484     .0517     .0549     .0582     .0614
8              .0647     .0686     .0724     .0763     .0801
8              .0840     .0888     .0936     .0984     .1032
8              .1080     .1145     .1210     .1274     .1339
8              .1404     .1509     .1613     .1718     .1822
8              .1927     .2068     .2244     .2481     .2864
8              .6960     .7549     .7840     .8041     .8198
8              .8327     .8406     .8486     .8565     .8645
8              .8724     .8779     .8834     .8889     .8944
8              .8999     .9042     .9085     .9127     .9170
8              .9213     .9248     .9284     .9319     .9355
8              .9390     .9420     .9450     .9481     .9511
8              .9541     .9568     .9594     .9621     .9647
8              .9674     .9698     .9722     .9745     .9769
8              .9793     .9815     .9836     .9858     .9879
8              .9901     .9926     .9951     .9975    1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 4                2.4000

8              .0000     .0020     .0041     .0061     .0082
8              .0102     .0125     .0147     .0170     .0192
8              .0215     .0240     .0265     .0290     .0314
8              .0339     .0367     .0395     .0424     .0452
8              .0480     .0512     .0544     .0577     .0609
8              .0641     .0679     .0718     .0756     .0795
8              .0833     .0881     .0929     .0976     .1024
8              .1072     .1136     .1200     .1265     .1329
8              .1393     .1497     .1601     .1706     .1810
8              .1914     .2055     .2230     .2466     .2848
8              .6776     .7564     .7854     .8054     .8210
8              .8339     .8418     .8497     .8576     .8655
8              .8734     .8789     .8843     .8898     .8952
8              .9007     .9049     .9092     .9134     .9177
8              .9219     .9254     .9289     .9325     .9360
8              .9395     .9425     .9455     .9485     .9515
8              .9545     .9571     .9598     .9624     .9651
8              .9677     .9701     .9724     .9748     .9771
8              .9795     .9816     .9838     .9859     .9891
8              .9902     .9927     .9951     .9975    1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 5                 .2500

8              .0000     .0072     .0152     .0251     .0358
```

```
8                .0538       .0717       .0950       .1219       .4910
8                .6358       .7043       .7661       .8109       .8486
8                .8799       .9041       .9274       .9453       .9606
8                .9713       .9821       .9892       .9955      1.0000
9 ENDTBL


                TIME INCREMENT
5 RAINFL 6                  .5000

8                .0000       .0078       .0150       .0214       .0286
8                .0371       .0457       .0550       .0643       .0750
8                .0864       .0971       .1071       .1250       .1514
8                .1821       .2250       .3214       .4143       .4964
8                .5714       .6421       .6893       .7214       .7500
8                .7750       .7957       .8143       .8314       .8486
8                .8621       .8757       .8879       .9000       .9093
8                .9193       .9286       .9364       .9443       .9514
8                .9593       .9657       .9714       .9786       .9829
8                .9879       .9921       .9964      1.0000      1.0000
9 ENDTBL
```

```
6 RUNOFF 1  15        6      1.7200     83.0000      .30001 0 0 1 0 1
6 REACH  3 114    6   5   2700.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  14        6      1.1600     82.0000      .25001 0 0 1 0 1
6 ADDHYD 4  14    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5  14    7   5
6 RUNOFF 1  16        6      2.2400     85.0000      .59001 0 0 1 0 1
6 ADDHYD 4 114    5 6 7                                  1 0 0 1 0 1
6 REACH  3 113    7   5   4300.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  13        6      1.3500     86.0000      .21001 0 0 1 0 1
6 ADDHYD 4  13    5 6 7                                  1 0 0 1 0 1
6 REACH  3 112    7   5   4600.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  12        6      1.4300     89.0000      .45001 0 0 1 0 1
6 ADDHYD 4  12    5 6 7                                  1 0 0 1 0 1
6 REACH  3 111    7   5   1800.0000       .8000      .00000 0 0 0 0 0
6 RUNOFF 1  11        6       .6300     85.0000      .31001 0 0 1 0 1
6 ADDHYD 4 111    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5 111    7   5
6 RUNOFF 1  17        6       .2100     82.0000      .23001 0 0 1 0 1
6 ADDHYD 4 117    5 6 7                                  1 1 0 1 0 1
6 SAVMOV 5 117    7   6
6 RESVOR 2      7 6   7   1967.0000                      1 1 0 1 0 1
6 REACH  3 102    7   5  38600.0000       .8000      .00001 0 0 1 0 1
6 RUNOFF 1   2        6      5.8700     79.0000     2.02001 0 0 1 0 1
6 ADDHYD 4 102    5 6 1                                  1 1 0 1 0 1
6 RUNOFF 1   5        6      5.5200     84.0000     1.18001 0 0 1 0 1
6 REACH  3 104    6   5  12500.0000       .7800      .00000 0 0 0 0 0
6 RUNOFF 1   4        6     13.1100     84.0000     2.17001 0 0 1 0 1
6 ADDHYD 4 104    5 6 7                                  1 0 0 1 0 1
6 SAVMOV 5 104    7   5
6 RUNOFF 1   6        6      7.1700     82.0000     1.80001 0 0 1 0 1
6 ADDHYD 4 106    5 6 7                                  1 1 0 1 0 1
6 REACH  3   3    7   5   4000.0000       .7500      .00001 0 0 1 0 1
6 RUNOFF 1   3        6      5.9200     81.0000     1.41001 0 0 1 0 1
6 ADDHYD 4   3    5 6 7                                  1 0 0 1 0 1
6 REACH  3 102    7   5   5500.0000       .7500      .00001 1 0 1 0 1
6 SAVMOV 5 102    1   6
6 ADDHYD 4      1 5 6 4                                  1 1 0 1 0 1
6 RESVOR 2      1 4   7   1568.2000                      1 1 0 1 0 1
  ENDATA

END OF LISTING
```

EXECUTIVE CONTROL CARD 117 OPERATION INCREM, MAIN TIME INCREMENT= .10
EXECUTIVE CONTROL CARD 122 OPERATION COMPUT, FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 4.59 RAIN DURATION= 1.00 RAIN TABLE NO.= 5 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 4

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.72 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.41	3227.697	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7988 CFS-HRS= 3106.74 ACRE-FT= 256.74

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.37	2195.740	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7062 CFS-HRS= 2025.95 ACRE-FT= 167.42

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.48	4901.140	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7619 CFS-HRS= 5133.42 ACRE-FT= 424.23

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 85.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.63	3323.740	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9853 CFS-HRS= 4315.67 ACRE-FT= 356.65

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

53 7937.396 (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8596 CFS-HRS= 9449.08 ACRE-FT= 780.87

JBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

JBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.32	3387.801	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.0824 CFS-HRS= 2685.54 ACRE-FT= 221.93

JBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.65	9014.584	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9064 CFS-HRS= 12135.93 ACRE-FT= 1002.91

JBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

JBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 89.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.50	2868.261	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.3755 CFS-HRS= 3115.16 ACRE-FT= 257.44

JBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.80	10477.748	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9912 CFS-HRS= 15250.55 ACRE-FT= 1260.31

JBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 85.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.41	1279.362	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9867 CFS-HRS= 1214.34 ACRE-FT= 100.35

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.86	10837.510	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9910 CFS-HRS= 16465.65 ACRE-FT= 1360.72

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.34	422.184	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7092 CFS-HRS= 367.18 ACRE-FT= 30.34

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.86	10976.180	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.03	.44	2.27	7.06	16.97	35.86	66.85
2.00	DISCHG	116.24	389.90	1413.59	3314.30	5544.72	7591.49	9163.46	10221.56	10868.68	10929.14
3.00	DISCHG	10396.82	9489.83	8420.43	7387.59	6494.00	5771.36	5190.72	4701.22	4285.89	3920.77
4.00	DISCHG	3597.15	3312.34	3061.76	2845.25	2647.66	2465.30	2298.40	2145.04	2005.05	1865.78
5.00	DISCHG	1725.22	1589.68	1464.85	1354.45	1250.35	1150.18	1055.87	969.75	892.70	818.53
6.00	DISCHG	745.89	672.03	590.64	505.80	418.91	334.60	257.09	187.56	129.37	85.19
7.00	DISCHG	54.42	34.29	21.58	13.64	8.65	5.50	3.51	2.25	1.42	.88
8.00	DISCHG	.52	.29	.15	.06	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.9843 CFS-HRS= 16832.82 ACRE-FT= 1391.06

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

3.72 18087.138 (NULL)

TIME				HYDROGRAPH, TZERO= .00		DELTA T= .10		DRAINAGE AREA= 25.80		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.12	1.18	2.30	3.42	87.69
2.00	DISCHG	284.62	481.69	751.10	1329.63	2005.63	2776.88	3751.83	5098.03	6598.03	8276.30
3.00	DISCHG	10082.65	11885.77	13523.94	15099.00	16363.00	17096.42	17663.15	18073.22	17913.31	17580.02
4.00	DISCHG	17184.04	16669.71	15923.45	15185.99	14479.98	13774.32	13049.75	12354.50	11680.16	11043.10
5.00	DISCHG	10444.07	9864.80	9296.99	8775.69	8273.60	7778.91	7305.23	6871.70	6444.34	6028.37
6.00	DISCHG	5641.09	5274.11	4915.12	4568.26	4243.69	3930.01	3626.52	3326.49	3051.81	2788.04
7.00	DISCHG	2525.49	2273.40	2055.64	1840.99	1630.36	1454.15	1295.15	1141.15	1001.57	890.87
8.00	DISCHG	786.96	692.92	606.70	540.10	479.64	422.59	372.25	332.22	294.43	257.24
9.00	DISCHG	227.29	201.08	175.18	150.24	133.64	117.22	101.30	87.62	77.65	67.93
10.00	DISCHG	58.77	51.24	45.09	39.36	33.66	29.50	25.90	22.33	18.89	16.64
11.00	DISCHG	14.40	12.15	10.32	8.94	7.55	6.24	5.27	4.45	3.69	2.94
12.00	DISCHG	2.48	2.04	1.62	1.24	1.00	.77	.54	.37	.27	.16
13.00	DISCHG	.06	.03	.02	.01	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8422 CFS-HRS= 47324.85 ACRE-FT= 3910.93

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.94	17890.114	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8419 CFS-HRS= 47319.13 ACRE-FT= 3910.45

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.36	4427.999	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.6223 CFS-HRS= 10018.55 ACRE-FT= 827.93

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.89	21358.028	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8009 CFS-HRS= 57337.67 ACRE-FT= 4738.39

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.18	21174.849	(NULL)

TIME			HYDROGRAPH, TZERO=			DELTA T= .10			DRAINAGE AREA= 31.7		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.16
2.00	DISCHG	.72	1.67	33.19	129.97	323.14	663.64	1149.75	1880.47	2854.02	4017.84
3.00	DISCHG	5376.80	6966.07	8684.07	10519.75	12414.75	14280.22	16061.71	17660.68	19005.28	20012.55
4.00	DISCHG	20697.12	21089.79	21166.83	20959.12	20551.22	19985.53	19276.48	18473.12	17628.28	16776.42
5.00	DISCHG	15925.49	15086.66	14270.02	13483.24	12733.57	12016.24	11330.06	10676.48	10053.10	9455.91
6.00	DISCHG	8882.86	8338.90	7819.49	7321.17	6845.35	6390.97	5954.95	5535.00	5131.86	4744.52
7.00	DISCHG	4371.22	4012.81	3670.39	3346.57	3037.46	2744.01	2471.09	2215.49	1977.59	1759.98
8.00	DISCHG	1563.14	1383.82	1221.08	1077.27	950.16	836.97	736.33	648.67	572.61	505.26
9.00	DISCHG	445.78	393.93	348.16	307.00	270.34	237.95	208.61	182.03	158.99	139.00
10.00	DISCHG	121.20	105.45	91.95	80.29	69.98	60.95	53.16	46.34	40.26	34.98
11.00	DISCHG	30.46	26.45	22.86	19.77	17.10	14.71	12.59	10.77	9.18	7.77
12.00	DISCHG	6.54	5.51	4.61	3.81	3.15	2.60	2.12	1.70	1.35	1.06
13.00	DISCHG	.81	.60	.43	.30	.19	.11	.06	.03	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.8008 CFS-HRS= 57334.73 ACRE-FT= 4738.14

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.33	33478.384	1593.07

TIME			HYDROGRAPH, TZERO=	.00		DELTA T= .10			DRAINAGE AREA= 46.33		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	5.64	14.00
2.00	DISCHG	22.77	51.39	178.40	370.68	659.35	1196.59	1911.41	2870.92	4100.65	5585.48
3.00	DISCHG	7267.04	9181.90	11149.66	13231.60	15420.95	17668.43	20018.43	22566.63	25239.40	27724.01
4.00	DISCHG	29948.41	31767.41	32965.92	33454.60	33307.44	32576.10	31349.13	29782.23	28047.73	26287.59
5.00	DISCHG	24577.46	22957.23	21446.46	20055.38	18771.28	17577.97	16472.05	15444.62	14481.21	13573.08
6.00	DISCHG	12720.89	11916.63	11152.02	10426.23	9734.34	9070.67	8433.97	7827.42	7245.49	6686.88
7.00	DISCHG	6156.57	5650.68	5167.55	4712.13	4284.04	3873.91	3484.47	3119.90	2773.47	2446.77
8.00	DISCHG	2145.40	1871.15	1619.87	1396.19	1204.52	1037.99	893.88	772.81	672.13	585.19
9.00	DISCHG	509.72	447.73	393.59	345.11	302.79	266.16	232.86	202.55	177.09	154.78
10.00	DISCHG	134.70	117.17	102.24	89.15	77.49	67.56	58.86	51.14	44.38	38.54
11.00	DISCHG	33.45	28.92	24.98	21.55	18.54	15.90	13.58	11.56	9.79	8.26
12.00	DISCHG	6.92	5.76	4.79	3.95	3.23	2.63	2.14	1.71	1.35	1.06
13.00	DISCHG	.81	.60	.43	.30	.19	.11	.06	.03	.01	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.7907 CFS-HRS= 83440.82 ACRE-FT= 6895.55

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
6.96	6384.676	1586.69

TIME			HYDROGRAPH, TZERO=	.00		DELTA T= .10			DRAINAGE AREA= 46.33		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05

2.00	DISCHG	.11	.25	.68	1.69	3.59	7.01	12.74	21.54	34.37	52.17
3.00	DISCHG	75.77	93.36	97.00	101.37	106.38	110.80	115.83	120.70	125.03	129.82
4.00	DISCHG	134.38	139.24	143.24	146.75	150.25	153.30	156.25	159.08	161.80	164.35
5.00	DISCHG	355.07	597.13	1155.06	1802.15	2383.70	2905.14	3371.40	3787.04	4156.09	4502.08
6.00	DISCHG	4889.60	5222.62	5505.55	5742.40	5936.85	6092.20	6211.44	6297.48	6353.01	6380.50
7.00	DISCHG	6382.35	6360.89	6318.22	6256.44	6177.62	6083.54	5975.76	5855.92	5725.51	5585.95
8.00	DISCHG	5438.39	5284.63	5125.98	4963.80	4799.58	4634.70	4470.24	4338.49	4219.09	4100.52
9.00	DISCHG	3983.20	3867.47	3753.65	3641.90	3532.33	3425.08	3320.22	3217.77	3117.78	3020.30
10.00	DISCHG	2925.35	2832.91	2742.98	2655.56	2570.62	2488.13	2408.06	2330.36	2254.98	2181.89
11.00	DISCHG	2111.02	2042.34	1975.79	1911.32	1848.86	1788.38	1729.81	1673.11	1618.21	1565.07
12.00	DISCHG	1513.64	1463.87	1415.70	1369.10	1324.00	1280.38	1238.18	1197.36	1157.87	1119.67
13.00	DISCHG	1082.73	1047.00	1012.44	979.02	946.70	915.44	885.22	855.99	827.72	800.39
14.00	DISCHG	773.96	748.40	723.69	699.79	676.68	663.72	656.86	650.07	643.35	636.70
15.00	DISCHG	630.11	623.60	617.15	610.77	604.46	598.21	592.02	585.90	579.84	573.85
16.00	DISCHG	567.92	562.05	556.23	550.48	544.79	539.16	533.59	528.07	522.61	517.21
17.00	DISCHG	511.86	506.57	501.33	496.15	491.02	485.94	480.92	475.94	471.02	466.15
18.00	DISCHG	461.33	456.56	451.84	447.17	442.55	437.97	433.45	428.97	424.53	420.14
19.00	DISCHG	415.80	411.50	407.24	403.03	398.87	394.74	390.66	386.62	382.63	378.67
20.00	DISCHG	374.75	370.88	367.05	363.25	359.50	355.78	352.10	348.46	344.86	341.29
21.00	DISCHG	337.76	334.27	330.82	327.40	324.01	320.66	317.35	314.06	310.82	307.60
22.00	DISCHG	304.42	301.28	298.16	295.08	292.03	289.01	286.02	283.06	280.14	277.24
23.00	DISCHG	274.37	271.54	268.73	265.95	263.20	260.48	257.79	255.12	252.49	249.88
24.00	DISCHG	247.29	244.74	242.21	239.70	237.22	234.77	232.34	229.94	227.56	225.21
25.00	DISCHG	222.88	220.58	218.30	216.04	213.81	211.60	209.41	207.24	205.10	202.98
26.00	DISCHG	200.88	198.81	196.75	194.72	192.70	190.71	188.74	186.79	184.86	182.95
27.00	DISCHG	181.05	179.18	177.33	175.50	173.68	171.89	170.11	168.35	166.61	165.00
28.00	DISCHG	164.98	164.97	164.95	164.94	164.92	164.91	164.89	164.87	164.86	164.84
29.00	DISCHG	164.83	164.81	164.80	164.78	164.77	164.75	164.73	164.72	164.70	164.69

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1727 CFS-HRS= 35064.95 ACRE-FT= 2897.77

ENDCMP

PASS= 3

EXECUTIVE CONTROL CARD 124 OPERATION COMPUT. FROM CTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 8.73 RAIN DURATION= 1.00 RAIN TABLE NO.= 5 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 5

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.72 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.38	8278.271	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6591 CFS-HRS= 7391.83 ACRE-FT= 610.86

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.34	5961.369	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.5299 CFS-HRS= 4888.44 ACRE-FT= 403.98

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.44	12856.540	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6088 CFS-HRS= 12283.56 ACRE-FT= 1015.11

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 85.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.60	8115.477	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9058 CFS-HRS= 9983.22 ACRE-FT= 825.01

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.50	19959.652	(NULL)

TAL WATER, IN INCHES ON DRAINAGE AREA= 6.7387 CFS-HRS= 22266.78 ACRE-FT= 1840

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.31	8176.008	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.0306 CFS-HRS= 6125.39 ACRE-FT= 506.20

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.62	22548.614	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.8006 CFS-HRS= 28396.25 ACRE-FT= 2346.67

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 89.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.48	6499.259	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.3926 CFS-HRS= 6822.51 ACRE-FT= 563.81

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.77	25682.537	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9079 CFS-HRS= 35219.37 ACRE-FT= 2910.53

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 85.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.39	3140.931	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9080 CFS-HRS= 2808.67 ACRE-FT= 232.11

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.83	26481.370	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.9082 CFS-HRS= 38029.58 ACRE-FT= 3142.76

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.33	1122.193	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.5380 CFS-HRS= 886.08 ACRE-FT= 73.23

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.83	26795.482	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.74

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
1.00	DISCHG	.88	4.69	17.30	46.76	98.85	170.87	259.90	372.72	517.11	701.65
2.00	DISCHG	946.93	1904.49	4806.85	9561.01	14840.57	19552.23	23151.33	25533.39	26743.09	26351.06
3.00	DISCHG	24493.03	21837.03	18964.62	16334.63	14142.57	12414.54	11054.14	9931.43	8995.74	8186.72
4.00	DISCHG	7479.38	6863.28	6325.03	5861.53	5440.74	5055.30	4705.40	4385.78	4094.97	3806.60
5.00	DISCHG	3516.71	3238.10	2981.82	2754.87	2540.87	2335.65	2143.30	1968.01	1811.09	1659.86
6.00	DISCHG	1511.91	1361.81	1196.88	1025.51	850.16	679.66	522.35	380.95	262.55	172.73
7.00	DISCHG	110.24	69.40	43.64	27.58	17.49	11.12	7.10	4.54	2.87	1.78
8.00	DISCHG	1.05	.59	.29	.13	.04	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.8993 CFS-HRS= 38915.66 ACRE-FT= 3215.99

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
2.83	26795.482	(NULL)

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10		DRAINAGE AREA= 8.74			
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
1.00	DISCHG	.88	4.69	17.30	46.76	98.85	170.87	259.90	372.72	517.11	701.65
2.00	DISCHG	946.93	1904.49	4806.85	9561.01	14840.57	19552.23	23151.33	25533.39	26743.09	26351.06
3.00	DISCHG	24493.03	21837.03	18964.62	16334.63	14142.57	12414.54	11054.14	9931.43	8995.74	8186.72
4.00	DISCHG	7479.38	6863.28	6325.03	5861.53	5440.74	5055.30	4705.40	4385.78	4094.97	3806.60
5.00	DISCHG	3516.71	3238.10	2981.82	2754.87	2540.87	2335.65	2143.30	1968.01	1811.09	1659.86
6.00	DISCHG	1511.91	1361.81	1196.88	1025.51	850.16	679.66	522.35	380.95	262.55	172.73
7.00	DISCHG	110.24	69.40	43.64	27.58	17.49	11.12	7.10	4.54	2.87	1.78
8.00	DISCHG	1.05	.59	.29	.13	.04	.00				

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.8993 CFS-HRS= 38915.66 ACRE-FT= 3215.99

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.40	24073.640	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.8995 CFS-HRS= 38916.68 ACRE-FT= 3216.07

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.79	8618.797	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.1799 CFS-HRS= 23411.31 ACRE-FT= 1934.71

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.37	31142.075	(NULL)

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10		DRAINAGE AREA= 14.61			
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.01	.03	.04	.41	2.75	5.10	7.45	43.21	94.27
2.00	DISCHG	145.33	255.33	570.88	886.57	1202.92	1789.38	2465.02	3148.74	3894.43	4773.57
3.00	DISCHG	5670.19	6587.16	7255.85	7916.73	8724.43	9768.65	11260.79	13659.29	16909.39	20417.05
4.00	DISCHG	23987.49	27202.04	29604.72	30905.34	31082.75	30201.17	28526.54	26323.59	23901.22	21529.33
5.00	DISCHG	19357.69	17428.67	15749.12	14322.42	13079.33	11985.15	11034.10	10196.48	9438.29	8748.21
6.00	DISCHG	8136.48	7567.65	7033.03	6541.69	6077.83	5629.27	5200.26	4804.24	4424.71	4061.03
7.00	DISCHG	3729.39	3418.47	3121.72	2844.59	2595.35	2351.02	2107.27	1880.94	1656.12	1430.30
8.00	DISCHG	1214.16	1018.26	835.18	669.60	535.72	424.65	333.70	263.52	211.74	170.19
9.00	DISCHG	135.92	114.61	96.90	81.33	69.29	60.26	51.80	43.81	38.68	33.70
10.00	DISCHG	28.82	25.00	21.95	18.91	16.00	14.08	12.15	10.23	8.77	7.57
11.00	DISCHG	6.36	5.24	4.52	3.79	3.06	2.54	2.11	1.67	1.29	1.04
12.00	DISCHG	.79	.55	.40	.28	.16	.08	.05	.03	.00	

TAL WATER, IN INCHES ON DRAINAGE AREA= 6.6103 CFS-HRS= 62327.98 ACRE-FT= 5150

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.04	12754.346	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7846 CFS-HRS= 24169.89 ACRE-FT= 1997.40

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 84.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.74	20075.049	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7869 CFS-HRS= 57422.37 ACRE-FT= 4745.38

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.70	32317.870	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7862 CFS-HRS= 81592.26 ACRE-FT= 6742.78

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.45	11960.846	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.5460 CFS-HRS= 30290.16 ACRE-FT= 2503.18

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.69	44178.167	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00

1.00	DISCHG	.02	.05	3.75	9.92	01	26.77	62.73	104.71	148.11	5
2.00	DISCHG	1102.02	1760.08	2623.39	4300.46	8.74	8424.07	11119.47	14679.66	18593.79	228 71
3.00	DISCHG	27320.07	31612.37	35355.86	38878.72	41549.14	42830.46	43687.79	44162.98	43289.33	42020.99
4.00	DISCHG	40633.54	39053.16	36993.09	34977.30	33085.21	31246.10	29427.52	27701.80	26038.27	24493.86
5.00	DISCHG	23066.89	21695.16	20353.07	19145.52	17990.35	16853.83	15772.77	14800.53	13843.05	12913.45
6.00	DISCHG	12056.05	11249.29	10461.14	9701.93	8997.82	8320.13	7666.91	7021.94	6436.86	5876.94
7.00	DISCHG	5319.84	4785.86	4326.93	3974.47	3430.28	3059.34	2724.93	2400.77	2106.59	1873.42
8.00	DISCHG	1654.37	1456.63	1275.36	1135.14	1008.01	888.08	782.00	697.32	617.28	538.47
9.00	DISCHG	474.74	418.81	363.51	310.20	275.71	241.56	208.47	180.05	159.50	139.45
10.00	DISCHG	120.57	105.07	92.41	80.64	68.93	60.38	53.02	45.67	38.61	34.02
11.00	DISCHG	29.42	24.82	21.07	18.24	15.41	12.72	10.74	9.08	7.52	5.99
12.00	DISCHG	5.05	4.16	3.29	2.52	2.04	1.57	1.09	.76	.54	.33
13.00	DISCHG	.12	.06	.04	.02	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7194 CFS-HRS= 111882.41 ACRE-FT= 9245.96

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.89	43724.010	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.7187 CFS-HRS= 111870.04 ACRE-FT= 9244.94

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.23	11340.293	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.4252 CFS-HRS= 24547.88 ACRE-FT= 2028.64

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
3.81	52256.112	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6639 CFS-HRS= 136417.91 ACRE-FT= 11273.58

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.10	51884.330	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.01	.82	3.35	9.36	19.97	37.29

2.00	DISCHG	72.36	123.99	287.08	667.38	[illegible]48.02	2461.02	3987.96	6156.85	8953.82	[illegible]2.18
3.00	DISCHG	15894.15	20088.71	24499.17	29093.47	[illegible]722.89	38144.20	42221.89	45737.68	48531.48	[illegible]37.70
4.00	DISCHG	51522.02	51885.24	51502.12	50457.11	48971.97	47166.88	45085.45	42840.39	40550.37	38300.51
5.00	DISCHG	36108.70	33992.81	31965.82	30040.23	28230.87	26519.26	24897.40	23367.84	21922.49	20548.20
6.00	DISCHG	19238.55	18005.59	16836.82	15722.08	14663.95	13659.38	12700.15	11780.18	10901.19	10060.69
7.00	DISCHG	9254.09	8482.93	7749.56	7059.00	6401.99	5779.79	5202.52	4662.89	4161.17	3702.64
8.00	DISCHG	3288.19	2910.75	2568.17	2265.36	1997.70	1759.45	1547.69	1363.31	1203.33	1061.70
9.00	DISCHG	936.53	827.24	730.62	643.56	565.85	497.05	434.60	378.02	329.21	287.19
10.00	DISCHG	249.98	217.18	189.16	165.02	143.72	125.10	109.04	95.00	82.50	71.66
11.00	DISCHG	62.37	54.14	46.77	40.43	34.95	30.05	25.72	22.00	18.74	15.85
12.00	DISCHG	13.35	11.23	9.39	7.77	6.42	5.29	4.31	3.46	2.75	2.16
13.00	DISCHG	1.65	1.22	.88	.60	.38	.22	.12	.06	.03	.01
14.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6635 CFS-HRS= 136409.71 ACRE-FT= 11272.90

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
4.27	81453.008	1603.72

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.01	.03	.04	.41	3.57	8.45	16.82	63.18	131.56
2.00	DISCHG	217.69	379.33	857.96	1553.96	2550.94	4250.41	6452.98	9305.60	12848.26	16985.75
3.00	DISCHG	21564.33	26675.87	31755.02	37010.20	42447.31	47912.85	53482.68	59396.97	65440.86	70854.75
4.00	DISCHG	75509.51	79087.28	81106.84	81362.45	80054.72	77368.05	73612.00	69163.98	64451.59	59829.84
5.00	DISCHG	55466.38	51421.48	47714.94	44362.65	41310.19	38504.41	35931.49	33564.32	31360.78	29296.42
6.00	DISCHG	27375.03	25573.24	23869.85	22263.77	20741.78	19288.65	17900.40	16584.41	15325.90	14121.73
7.00	DISCHG	12983.48	11901.41	10871.28	9903.59	8997.35	8130.81	7309.79	6543.83	5817.29	5132.94
8.00	DISCHG	4502.35	3929.01	3403.35	2934.96	2533.42	2184.10	1881.39	1626.83	1415.07	1231.89
9.00	DISCHG	1072.45	941.86	827.52	724.89	635.15	557.31	486.39	421.83	367.89	320.89
10.00	DISCHG	278.81	242.18	211.11	183.93	159.73	139.18	121.19	105.23	91.27	79.22
11.00	DISCHG	68.73	59.38	51.28	44.22	38.01	32.59	27.83	23.67	20.03	16.89
12.00	DISCHG	14.14	11.77	9.79	8.06	6.58	5.37	4.36	3.49	2.75	2.16
13.00	DISCHG	1.65	1.22	.89	.60	.38	.22	.12	.06	.03	.01
14.00	DISCHG	.00									

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.6468 CFS-HRS= 198737.71 ACRE-FT= 16423.68

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
5.64	34958.284	1593.40

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.33

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.01	.03	.08	.23	.58
2.00	DISCHG	1.23	2.33	4.61	9.06	16.62	29.15	48.86	77.84	94.59	99.95

3.00	DISCHG	106.66	113.11	120.30	126.53	133.24	140.36	145.94	151.69	157.47	163.87
4.00	DISCHG	1078.10	3595.02	6727.27	10067.15	13469.69	17865.33	21332.73	24344.65	26899.75	29130.27
5.00	DISCHG	30742.87	32108.84	33159.40	33934.38	34470.04	34797.21	34942.87	34931.13	34782.59	34514.59
6.00	DISCHG	34142.79	33681.35	33142.22	32535.96	31872.07	31158.62	30402.61	29610.73	28789.05	27942.71
7.00	DISCHG	27076.83	26196.25	25305.11	24407.48	23507.48	22608.31	21712.47	20822.78	19941.73	19071.24
8.00	DISCHG	18213.57	17371.29	16546.63	15741.67	14958.99	14200.80	13468.63	12763.74	12087.24	11439.56
9.00	DISCHG	10887.73	10444.82	10016.28	9602.08	9202.14	8816.37	8444.55	8086.37	7741.59	7410.00
10.00	DISCHG	7091.28	6785.08	6491.09	6208.97	5938.35	5678.86	5430.13	5191.79	4963.47	4744.79
11.00	DISCHG	4535.42	4358.95	4216.84	4079.17	3945.83	3816.69	3691.66	3570.60	3453.42	3339.99
12.00	DISCHG	3230.21	3123.97	3021.17	2921.70	2825.46	2732.35	2642.29	2555.16	2470.89	2389.38
13.00	DISCHG	2310.54	2234.29	2160.54	2089.22	2020.25	1953.55	1889.04	1826.67	1766.35	1708.02
14.00	DISCHG	1651.62	1597.08	1544.34	1493.35	1444.03	1396.35	1350.24	1305.65	1262.54	1220.85
15.00	DISCHG	1180.53	1141.55	1103.85	1067.40	1032.16	998.07	965.11	933.24	902.43	872.63
16.00	DISCHG	843.81	815.95	789.00	762.95	737.76	713.39	689.84	667.71	660.80	653.97
17.00	DISCHG	647.21	640.52	633.90	627.34	620.86	614.44	608.08	601.80	595.58	589.42
18.00	DISCHG	583.32	577.29	571.32	565.42	559.57	553.79	548.06	542.40	536.79	531.24
19.00	DISCHG	525.75	520.31	514.93	509.61	504.34	499.12	493.96	488.86	483.80	478.80
20.00	DISCHG	473.85	468.95	464.10	459.30	454.56	449.86	445.21	440.60	436.05	431.54
21.00	DISCHG	427.08	422.66	418.29	413.97	409.69	405.45	401.26	397.11	393.01	388.94
22.00	DISCHG	384.92	380.94	377.00	373.11	369.25	365.43	361.65	357.91	354.21	350.55
23.00	DISCHG	346.93	343.34	339.79	336.28	332.80	329.36	325.96	322.59	319.25	315.95
24.00	DISCHG	312.68	309.45	306.25	303.08	299.95	296.85	293.78	290.74	287.74	284.76
25.00	DISCHG	281.82	278.90	276.02	273.17	270.34	267.55	264.78	262.04	259.34	256.65
26.00	DISCHG	254.00	251.37	248.78	246.20	243.66	241.14	238.65	236.18	233.74	231.32
27.00	DISCHG	228.93	226.56	224.22	221.90	219.61	217.34	215.09	212.87	210.67	208.49
28.00	DISCHG	206.33	204.20	202.09	200.00	197.93	195.88	193.86	191.85	189.87	187.91
29.00	DISCHG	185.97	184.04	182.14	180.26	178.39	176.55	174.72	172.92	171.13	169.36

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 5.0164 CFS-HRS= 149989.89 ACRE-FT= 12395.16

ENDCMP

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CHANGES TO STANDARD CONTROL LIST FOLLOW
EXECUTI   CONTROL CARD      126   OPERATION  ALTER

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  15      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          1.7100      80.0000         .3000
 OUTPUT OPTION= 1 0 0 1 0 1ID=       127

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  14      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          1.1600      79.0000         .2500
 OUTPUT OPTION= 1 0 0 1 0 1ID=       128

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  16      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          2.2400      82.0000         .5900
 OUTPUT OPTION= 1 0 0 1 0 1ID=       129

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  13      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          1.3500      83.0000         .2100
 OUTPUT OPTION= 1 0 0 1 0 1ID=       130

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  12      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          1.4300      86.0000         .4500
 OUTPUT OPTION= 1 0 0 1 0 1ID=       131

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  11      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=           .6300      82.0000         .3100
 OUTPUT OPTION= 1 0 0 1 0 1ID=       132

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=  17      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=           .2100      79.0000         .2300
 OUTPUT OPTION= 1 0 0 1 0 1ID=       133

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   2      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=5      DATA FIELDS=          5.8700      75.0000        2.0200
 OUTPUT OPTION= 1 0 0 1 0 1ID=       134

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   5      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          5.5200      81.0000        1.1800
 OUTPUT OPTION= 1 0 0 1 0 1ID=       135

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   4      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=         13.1100      81.0000        2.1700
 OUTPUT OPTION= 1 0 0 1 0 1ID=       136

 STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=   6      STRUCTURE=  0
 IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          7.1700      79.0000        1.8000
 OUTPUT OPTION= 1 0 0 1 0 1ID=       137
```

```
STANDARD CONTROL CARD,  SUBROUTINE RUNOFF,      CROSS-SECTION=    3      STRUCTURE=  0
IN1 HYD=0      IN2 HYD=0      OUT HYD=6      DATA FIELDS=          5.9200      78.0000      1.4100
OUTPUT OPTION= 1  0  0  1  0  IID=      138
```

E :UTIVE CONTROL CARD 139 OPERATION LIST PASS=

LISTING OF DATA IN CORE

0 -POWERLINE DAM ANALYSIS. SEPT 1985

VELOCITY INCREMENT

1 CTABLE .2000

8	.0000	.0800	.1800	.2500	.3200
8	.3700	.4100	.4500	.4900	.5100
8	.5400	.5700	.5900	.6100	.6300
8	.6500	.6600	.6700	.6900	.7000
8	.7100	.7200	.7300	.7400	.7500
8	.7600	.7700	.7700	.7800	.7900
8	.7900	.8000	.8100	.8100	.8200
8	.8200	.8300	.8300	.8400	.8400
8	.8400	.8500	.8500	.8600	.8600
8	.8600	.8600	.8700	.8700	.8700
8	.8800	.8800	.8800	.8900	.8900
8	.8900	.8900	.8900	.8900	.9000
8	.9000	.9000	.9000	.9000	.9100
8	.9100	.9100	.9100	.9100	.9100
8	.9200	.9200	.9200	.9200	.9200
8	.9200	.9200	.9200	.9300	.9300

9 ENDTBL

STRUCT NO.

3 STRUCT 1

	ELEVATION	DISCHARGE	STORAGE
8	1568.2000	.0000	175.0000
8	1570.1000	92.0000	380.0000
8	1572.1000	106.0000	700.0000
8	1574.1000	119.0000	1100.0000
8	1576.1000	130.0000	1600.0000
8	1578.1000	141.0000	2175.0000
8	1580.1000	150.0000	2875.0000
8	1582.1000	159.0000	3675.0000
8	1583.3000	165.0000	4199.9999
8	1584.1000	668.0000	4599.9999
8	1586.1000	4426.0000	5524.9999
8	1588.1000	11084.0000	6724.9999
8	1590.1000	20092.0000	7924.9999

9 ENDTBL

STRUCT NO.

3 STRUCT 7

ELEVATION	DISCHARGE	STORAGE
1967.0000	.0000	.0000

ENDTBL

TIME INCREMENT

DIMHYD

.0000	.0300	.1000	.1900	.3100
.4700	.6600	.8200	.9300	.9900
1.0000	.9900	.9300	.8600	.7800
.6800	.5600	.4600	.3900	.3300
.2800	.2410	.2070	.1740	.1470
.1260	.1070	.0910	.0770	.0660
.0550	.0470	.0400	.0340	.0290
.0250	.0210	.0180	.0150	.0130
.0110	.0090	.0080	.0070	.0060
.0050	.0040	.0030	.0020	.0010
.0000	.0000	.0000	.0000	.0000

ENDTBL

COMPUTED PEAK K FACTOR = 484.00

TIME INCREMENT

RAINFL 1 .5000

.0000	.0080	.0170	.0260	.0350
.0450	.0550	.0650	.0760	.0870
.0990	.1120	.1250	.1400	.1560
.1740	.1940	.2190	.2540	.3030
.5150	.5830	.6240	.6540	.6820
.7050	.7270	.7480	.7670	.7840
.8000	.8160	.8300	.8440	.8570
.8700	.8820	.8930	.9050	.9160
.9260	.9360	.9460	.9550	.9650
.9740	.9830	.9920	1.0000	1.0000

ENDTBL

TIME INCREMENT

RAINFL 2 .5000

.0000	.0050	.0110	.0160	.0220
.0280	.0350	.0410	.0480	.0560
.0630	.0710	.0800	.0890	.0980
.1090	.1200	.1330	.1470	.1630
.1810	.2040	.2350	.2830	.6630
.7350	.7720	.7990	.8200	.8380
.8540	.8680	.8800	.8910	.9020
.9120	.9210	.9290	.9370	.9450
.9520	.9590	.9650	.9720	.9780
.9840	.9890	.9950	1.0000	1.0000

ENDTBL

```
                    TIME INCREMENT
5 RAINFL 3                2.4000

8              .0000     .0021     .0041     .0062     .0082
8              .0103     .0126     .0148     .0171     .0193
8              .0216     .0241     .0266     .0292     .0317
8              .0342     .0370     .0399     .0427     .0456
8              .0484     .0517     .0549     .0582     .0614
8              .0647     .0686     .0724     .0763     .0801
8              .0840     .0888     .0936     .0984     .1032
8              .1080     .1145     .1210     .1274     .1339
8              .1404     .1509     .1613     .1718     .1822
8              .1927     .2068     .2244     .2481     .2864
8              .6960     .7549     .7840     .8041     .8198
8              .8327     .8406     .8486     .8565     .8645
8              .8724     .8779     .8834     .8889     .8944
8              .8999     .9042     .9085     .9127     .9170
8              .9213     .9248     .9284     .9319     .9355
8              .9390     .9420     .9450     .9481     .9511
8              .9541     .9568     .9594     .9621     .9647
8              .9674     .9698     .9722     .9745     .9769
8              .9793     .9815     .9836     .9858     .9879
8              .9901     .9926     .9951     .9975    1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 4                2.4000

8              .0000     .0020     .0041     .0061     .0082
8              .0102     .0125     .0147     .0170     .0192
8              .0215     .0240     .0265     .0290     .0314
8              .0339     .0367     .0395     .0424     .0452
8              .0480     .0512     .0544     .0577     .0609
8              .0641     .0679     .0718     .0756     .0795
8              .0833     .0881     .0929     .0976     .1024
8              .1072     .1136     .1200     .1265     .1329
8              .1393     .1497     .1601     .1706     .1810
8              .1914     .2055     .2230     .2466     .2848
8              .6776     .7564     .7854     .8054     .8210
8              .8339     .8418     .8497     .8576     .8655
8              .8734     .8789     .8843     .8898     .8952
8              .9007     .9049     .9092     .9134     .9177
8              .9219     .9254     .9289     .9325     .9360
8              .9395     .9425     .9455     .9485     .9515
8              .9545     .9571     .9598     .9624     .9651
8              .9677     .9701     .9724     .9748     .9771
8              .9795     .9816     .9838     .9859     .9891
8              .9902     .9927     .9951     .9975    1.0000
9 ENDTBL


                    TIME INCREMENT
5 RAINFL 5                 .2500

8              .0000     .0072     .0152     .0251     .0358
```

```
8                .0538       .0717       .0950       .1219       .4910
8                .6398       .7043       .7661       .8109       .8486
8                .8799       .9041       .9274       .9453       .9606
8                .9713       .9821       .9892       .9955      1.0000
9 ENDTBL


                  TIME INCREMENT
5 RAINFL 6                  .5000

8                .0000       .0078       .0150       .0214       .0286
8                .0371       .0457       .0550       .0643       .0750
8                .0864       .0971       .1071       .1250       .1514
8                .1821       .2250       .3214       .4143       .4964
8                .5714       .6421       .6893       .7214       .7500
8                .7750       .7957       .8143       .8314       .8486
8                .8621       .8757       .8879       .9000       .9093
8                .9193       .9286       .9364       .9443       .9514
8                .9593       .9657       .9714       .9786       .9829
8                .9879       .9921       .9964      1.0000      1.0000
9 ENDTBL
```

```
6 RUNOFF  1   15        6      1.7100      80.0000      .30001 0 0 1 0 1
6 REACH   3  114     6  5   2700.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1   14        6      1.1600      79.0000      .25001 0 0 1 0 1
6 ADDHYD  4   14     5 6 7                                   1 0 0 1 0 1
6 SAVMOV  5   14     7  5
6 RUNOFF  1   16        6      2.2400      82.0000      .50001 0 0 1 0 1
6 ADDHYD  4  114     5 6 7                                   1 0 0 1 0 1
6 REACH   3  113     7  5   4300.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1   13        6      1.3500      83.0000      .21001 0 0 1 0 1
6 ADDHYD  4   13     5 6 7                                   1 0 0 1 0 1
6 REACH   3  112     7  5   4600.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1   12        6      1.4300      86.0000      .45001 0 0 1 0 1
6 ADDHYD  4   12     5 6 7                                   1 0 0 1 0 1
6 REACH   3  111     7  5   1800.0000        .8000      .00000 0 0 0 0 0
6 RUNOFF  1   11        6       .6300      82.0000      .31001 0 0 1 0 1
6 ADDHYD  4  111     5 6 7                                   1 0 0 1 0 1
6 SAVMOV  5  111     7  5
6 RUNOFF  1   17        6       .2100      79.0000      .23001 0 0 1 0 1
6 ADDHYD  4  117     5 6 7                                   1 1 0 1 0 1
6 SAVMOV  5  117     7  6
6 RESVOR  2      7 6    7   1967.0000                          1 1 0 1 0 1
6 REACH   3  102     7  5  38600.0000        .8000      .00001 0 0 1 0 1
6 RUNOFF  1    2        6      5.8700      75.0000     2.02001 0 0 1 0 1
6 ADDHYD  4  102     5 6 1                                   1 1 0 1 0 1
6 RUNOFF  1    5        6      5.5200      81.0000     1.18001 0 0 1 0 1
6 REACH   3  104     6  5  12500.0000        .7800      .00000 0 0 0 0 0
6 RUNOFF  1    4        6     13.1100      81.0000     2.17001 0 0 1 0 1
6 ADDHYD  4  104     5 6 7                                   1 0 0 1 0 1
6 SAVMOV  5  104     7  5
6 RUNOFF  1    6        6      7.1700      79.0000     1.80001 0 0 1 0 1
6 ADDHYD  4  106     5 6 7                                   1 1 0 1 0 1
6 REACH   3    3     7  5   4000.0000        .7500      .00001 0 0 1 0 1
6 RUNOFF  1    3        6      5.9200      78.0000     1.41001 0 0 1 0 1
6 ADDHYD  4    3     5 6 7                                   1 0 0 1 0 1
6 REACH   3  102     7  5   5500.0000        .7500      .00001 1 0 1 0 1
6 SAVMOV  5  102     1  6
6 ADDHYD  4      1 5 6  4                                    1 1 0 1 0 1
6 RESVOR  2      1 4    7   1568.2000                          1 1 0 1 0 1
  ENDATA

END OF LISTING
```

Alt #3 #0

PASS= 4

XECUTIVE CONTROL CARD 140 OPERATION INCREM, MAIN T INCREMENT= .10
XECUTIVE CONTROL CARD 145 OPERATION COMPUT, FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 5.78 RAIN DURATION= 1.00 RAIN TABLE NO.= 6 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 8

UBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.10	761.009	(RUNOFF)
9.56	748.034	(RUNOFF)
10.06	729.072	(RUNOFF)
10.46	718.619	(RUNOFF)
14.45	190.284	(RUNOFF)
15.45	151.284	(RUNOFF)
17.49	111.886	(RUNOFF)
18.95	89.224	(RUNOFF)
19.98	89.035	(RUNOFF)
21.48	81.034	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5768 CFS-HRS= 3947.28 ACRE-FT= 326.20

UBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

UBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.07	500.764	(RUNOFF)
9.55	494.397	(RUNOFF)
10.04	483.177	(RUNOFF)
10.46	479.306	(RUNOFF)
14.44	126.949	(RUNOFF)
15.45	101.380	(RUNOFF)
16.45	91.113	(RUNOFF)
17.47	75.174	(RUNOFF)
18.95	59.886	(RUNOFF)
19.96	59.959	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.4770 CFS-HRS= 2603.00 ACRE-FT= 215.11

UBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.14	1249.810	(NULL)
9.59	1237.953	(NULL)
10.07	1210.247	(NULL)
10.46	1194.632	(NULL)

14.46	317.012	(NULL)
15.46	252.378	(NULL)
17.53	186.418	(NULL)
18.96	148.900	(NULL)
20.01	147.981	(NULL)
21.51	133.906	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5365 CFS-HRS= 6550.43 ACRE-FT= 541.33

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.45	1028.289	(RUNOFF)
9.55	1028.395	(RUNOFF)
17.60	148.987	(RUNOFF)
20.09	116.216	(RUNOFF)
21.59	102.273	(RUNOFF)
22.58	74.310	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7786 CFS-HRS= 5462.43 ACRE-FT= 451.42

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.22	2266.420	(NULL)
9.58	2266.289	(NULL)
17.55	335.364	(NULL)
20.03	263.768	(NULL)
21.53	235.375	(NULL)
22.54	168.126	(NULL)
23.46	147.359	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6426 CFS-HRS= 12012.86 ACRE-FT= 992.74

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.02	670.060	(RUNOFF)
9.50	642.476	(RUNOFF)
10.00	616.613	(RUNOFF)
10.45	605.136	(RUNOFF)

14.43	155.674	(RUNOFF)
15.45	123.767	(RUNOFF)
17.46	91.818	(RUNOFF)
18.95	72.950	(RUNOFF)
19.95	73.155	(RUNOFF)
21.45	67.127	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.8797 CFS-HRS= 3380.20 ACRE-FT= 279.34

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.50	2899.442	(NULL)
17.59	423.535	(NULL)
20.06	330.937	(NULL)
21.56	291.001	(NULL)
22.57	211.173	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6922 CFS-HRS= 15393.26 ACRE-FT= 1272.10

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.14	757.845	(RUNOFF)
14.45	170.441	(RUNOFF)
17.56	99.049	(RUNOFF)
20.03	77.806	(RUNOFF)
21.54	69.515	(RUNOFF)
22.55	49.426	(RUNOFF)
23.46	43.234	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 4.1927 CFS-HRS= 3869.33 ACRE-FT= 319.76

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.63	3622.203	(NULL)
17.67	520.789	(NULL)
20.17	404.947	(NULL)
21.67	353.031	(NULL)
22.65	258.923	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7830 CFS-HRS= 19263.03 ACRE-FT= 1591.90

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.09	299.368	(RUNOFF)
9.55	291.123	(RUNOFF)
10.05	280.970	(RUNOFF)
10.45	275.426	(RUNOFF)
14.45	71.915	(RUNOFF)
15.45	57.129	(RUNOFF)
17.50	42.161	(RUNOFF)
18.95	33.604	(RUNOFF)
19.98	33.471	(RUNOFF)
21.47	30.382	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7782 CFS-HRS= 1536.16 ACRE-FT= 126.95

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.67	3905.992	(NULL)
20.18	434.846	(NULL)
21.68	376.304	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7827 CFS-HRS= 20799.24 ACRE-FT= 1718.85

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.06	90.770	(RUNOFF)
9.53	89.535	(RUNOFF)
10.03	87.547	(RUNOFF)
10.46	86.822	(RUNOFF)
14.45	23.106	(RUNOFF)
15.45	18.370	(RUNOFF)
17.46	13.625	(RUNOFF)
18.95	10.850	(RUNOFF)
19.96	10.278	(RUNOFF)
21.46	9.970	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.4770 CFS-HRS= 471.23 ACRE-FT= 38.94

SUBROUTINE HYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.65	3993.706	(NULL)
20.15	444.671	(NULL)
21.66	384.074	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.02	.14	.46
4.00	DISCHG	1.05	1.90	2.99	4.30	5.75	7.29	8.96	11.05	13.81	17.13
5.00	DISCHG	20.73	24.40	28.05	31.66	35.36	39.36	43.68	48.21	52.89	57.79
6.00	DISCHG	63.03	69.79	80.38	95.47	114.03	133.78	155.29	182.42	215.89	254.01
7.00	DISCHG	293.42	333.63	377.12	423.88	472.21	519.85	570.49	632.83	706.28	788.15
8.00	DISCHG	874.02	986.32	1166.64	1415.88	1718.22	2042.79	2368.91	2690.90	2994.71	3261.82
9.00	DISCHG	3485.61	3662.61	3789.21	3875.21	3931.88	3970.32	3991.94	3992.09	3978.71	3960.33
10.00	DISCHG	3944.22	3928.97	3908.37	3885.48	3864.06	3846.45	3813.87	3738.69	3626.20	3486.04
11.00	DISCHG	3335.41	3171.22	2979.01	2777.92	2584.83	2412.88	2261.74	2123.09	1999.97	1898.08
12.00	DISCHG	1819.04	1756.42	1700.75	1650.02	1603.95	1563.50	1524.94	1481.83	1436.33	1390.89
13.00	DISCHG	1348.57	1308.55	1267.92	1228.76	1193.46	1163.60	1137.75	1112.83	1089.19	1067.59
14.00	DISCHG	1048.94	1033.32	1020.23	1009.81	1002.35	997.53	991.48	978.94	960.52	937.07
15.00	DISCHG	911.39	885.40	859.98	837.48	820.08	808.05	799.21	790.59	781.36	771.17
16.00	DISCHG	760.69	750.29	739.98	730.65	723.14	717.51	711.06	699.93	684.48	665.54
17.00	DISCHG	645.14	625.22	607.13	592.47	582.76	577.72	575.69	574.59	573.27	570.95
18.00	DISCHG	567.61	562.26	553.40	542.05	529.28	516.41	504.09	492.64	482.88	475.57
19.00	DISCHG	470.71	467.08	463.13	458.52	453.10	447.31	442.20	438.96	437.80	438.92
20.00	DISCHG	441.75	444.30	444.31	441.42	435.51	427.47	417.59	405.68	393.21	381.47
21.00	DISCHG	371.37	364.34	361.97	363.62	368.96	376.59	382.88	383.62	378.10	366.53
22.00	DISCHG	350.88	333.69	317.02	302.99	293.55	288.58	286.38	284.83	282.79	279.59
23.00	DISCHG	275.36	270.63	265.84	261.58	258.40	256.34	254.60	251.97	248.43	243.99
24.00	DISCHG	238.89	230.26	213.95	191.43	164.42	135.90	107.61	80.32	56.22	37.28
25.00	DISCHG	23.84	15.02	9.45	5.97	3.79	2.42	1.55	1.00	.64	.40
26.00	DISCHG	.24	.14	.07	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7753 CFS-HRS= 21270.47 ACRE-FT= 1757.79

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.65	3993.706	(NULL)
20.15	444.671	(NULL)
21.66	384.074	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.02	.14	.46

4.00	DISCHG	1.05	1.90	2.99	4.30	5.75	7.29	8.96	11.05	13.81	17.13
5.00	DISCHG	20.73	24.40	28.05	31.66	35.36	39.36	43.68	48.21	52.89	57.79
6.00	DISCHG	63.03	69.79	80.38	95.47	114.03	133.78	155.29	182.42	215.89	254.01
7.00	DISCHG	293.42	333.63	377.10	423.88	472.21	519.85	570.49	632.83	706.28	788.15
8.00	DISCHG	874.02	986.32	1166.64	1415.88	1719.22	2042.79	2368.91	2690.90	2994.71	3261.82
9.00	DISCHG	3485.61	3662.61	3789.21	3875.21	3931.88	3970.32	3991.94	3992.09	3978.71	3960.33
10.00	DISCHG	3944.22	3928.97	3908.37	3885.48	3864.06	3846.45	3813.87	3738.69	3626.20	3486.04
11.00	DISCHG	3335.41	3171.22	2979.01	2777.92	2584.83	2412.88	2261.74	2123.09	1999.97	1898.08
12.00	DISCHG	1819.04	1756.42	1700.75	1650.02	1603.95	1563.50	1524.94	1481.83	1436.33	1390.89
13.00	DISCHG	1348.57	1308.55	1267.92	1228.76	1193.46	1163.60	1137.75	1112.83	1089.19	1067.59
14.00	DISCHG	1048.94	1033.32	1020.23	1009.81	1002.35	997.53	991.48	978.94	960.52	937.07
15.00	DISCHG	911.39	885.40	859.98	837.48	820.08	808.05	799.21	790.59	781.36	771.17
16.00	DISCHG	760.69	750.29	739.98	730.65	723.14	717.51	711.06	699.93	684.48	665.54
17.00	DISCHG	645.14	625.22	607.13	592.47	582.76	577.72	575.69	574.59	573.27	570.95
18.00	DISCHG	567.61	562.26	553.40	542.05	529.28	516.41	504.09	492.64	482.88	475.57
19.00	DISCHG	470.71	467.08	463.13	458.52	453.10	447.31	442.20	438.96	437.80	438.92
20.00	DISCHG	441.75	444.30	444.31	441.42	435.51	427.47	417.59	405.68	393.21	381.47
21.00	DISCHG	371.37	364.34	361.97	363.62	368.96	376.59	382.88	383.62	378.10	366.53
22.00	DISCHG	350.88	333.69	317.02	302.99	293.55	288.58	286.38	284.83	282.79	279.59
23.00	DISCHG	275.36	270.63	265.84	261.58	258.40	256.34	254.60	251.97	248.43	243.99
24.00	DISCHG	238.89	230.26	213.95	191.43	164.42	135.90	107.61	80.32	56.22	37.28
25.00	DISCHG	23.84	15.02	9.45	5.97	3.79	2.42	1.55	1.00	.64	.40
26.00	DISCHG	.24	.14	.07	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7753 CFS-HRS= 21270.47 ACRE-FT= 1757.79

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.32	3963.378	(NULL)
21.58	441.912	(NULL)
23.15	376.435	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.7753 CFS-HRS= 21270.53 ACRE-FT= 1757.80

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.09	1936.695	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.0897 CFS-HRS= 11704.68 ACRE-FT= 967.27

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.20	5879.590	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.03	.10	.26	.56	1.05	1.74	2.64	3.73	5.01
6.00	DISCHG	6.49	8.22	10.28	12.84	15.82	19.11	22.81	27.35	32.01	36.82
7.00	DISCHG	43.49	50.95	58.62	67.67	80.06	93.38	108.33	130.31	156.00	184.40
8.00	DISCHG	220.32	268.00	319.54	375.04	454.78	540.21	628.50	731.90	854.22	978.72
9.00	DISCHG	1106.19	1255.04	1410.62	1573.67	1747.03	1938.08	2157.92	2415.89	2702.17	3027.99
10.00	DISCHG	3384.21	3746.36	4104.11	4452.99	4778.41	5053.93	5292.52	5492.17	5639.25	5745.22
11.00	DISCHG	5823.05	5871.99	5879.59	5872.58	5855.56	5815.10	5763.90	5709.85	5650.32	5577.82
12.00	DISCHG	5497.83	5403.41	5287.27	5147.45	4984.41	4801.57	4603.15	4389.40	4167.06	3949.92
13.00	DISCHG	3739.53	3539.71	3356.07	3191.96	3045.20	2915.36	2804.96	2707.02	2618.66	2539.76
14.00	DISCHG	2468.09	2399.04	2331.13	2268.13	2205.56	2143.68	2084.83	2028.98	1975.12	1924.10
15.00	DISCHG	1877.77	1834.30	1793.41	1755.34	1719.91	1686.93	1656.73	1630.30	1606.46	1584.74
16.00	DISCHG	1564.97	1544.89	1522.55	1497.34	1469.86	1439.78	1408.27	1377.52	1348.47	1321.97
17.00	DISCHG	1298.34	1277.16	1257.69	1239.13	1221.07	1203.15	1185.34	1168.38	1152.81	1137.93
18.00	DISCHG	1123.19	1108.39	1091.85	1072.99	1052.04	1029.70	1006.92	984.97	965.11	948.08
19.00	DISCHG	934.06	922.76	913.39	904.97	896.68	888.25	878.39	866.73	853.86	839.94
20.00	DISCHG	825.20	810.44	796.95	784.54	773.56	763.94	755.37	747.40	739.49	731.15
21.00	DISCHG	722.98	715.37	708.94	703.91	700.22	697.51	695.13	691.91	687.14	680.37
22.00	DISCHG	671.53	660.77	648.20	634.25	620.40	607.65	596.72	588.55	583.44	581.00
23.00	DISCHG	579.99	578.57	574.95	568.17	557.56	543.61	527.82	511.72	496.48	483.20
24.00	DISCHG	471.84	462.64	454.93	446.79	438.00	429.01	419.46	407.83	396.42	385.42
25.00	DISCHG	374.08	362.55	350.90	338.94	326.55	312.21	294.74	274.59	250.67	223.06
26.00	DISCHG	193.41	163.96	134.82	107.49	84.34	65.09	49.56	37.71	29.20	22.81
27.00	DISCHG	17.95	14.68	12.18	10.14	8.57	7.42	6.39	5.44	4.81	4.22
28.00	DISCHG	3.66	3.21	2.85	2.51	2.17	1.94	1.70	1.47	1.28	1.13
29.00	DISCHG	.97	.83	.73	.62	.52	.45	.38	.31	.25	.20

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.4997 CFS-HRS= 32975.20 ACRE-FT= 2725.07

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.45	2376.066	(RUNOFF)
21.63	238.523	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6772 CFS-HRS= 13099.71 ACRE-FT= 1082.56

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.09	5095.584	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6769 CFS-HRS= 31109.68 ACRE-FT= 2570.90

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.07	7463.567	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6770 CFS-HRS= 44209.01 ACRE-FT= 3653.43

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 · OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.82	2762.385	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.4775 CFS-HRS= 16091.61 ACRE-FT= 1329.81

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.99	10198.409	(NULL)

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10			DRAINAGE AREA= 25.80		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.01	.02	.16
5.00	DISCHG	.39	.61	.84	1.80	2.89	4.05	5.74	8.87	12.26	16.24
6.00	DISCHG	22.16	29.66	37.92	47.54	60.68	75.71	93.37	111.82	138.55	169.94
7.00	DISCHG	202.45	239.69	290.72	343.47	398.16	469.23	548.10	628.84	718.77	834.25
8.00	DISCHG	954.55	1093.49	1247.88	1447.93	1677.14	1923.55	2209.28	2570.31	2963.43	3374.43
9.00	DISCHG	3850.09	4366.71	4896.51	5430.86	5963.60	6493.62	7005.93	7476.51	7903.58	8305.75
10.00	DISCHG	8666.13	8978.62	9247.26	9481.55	9705.41	9863.71	9980.38	10090.96	10189.07	10195.96
11.00	DISCHG	10198.40	10195.32	10123.64	9998.93	9862.81	9692.25	9469.24	9218.30	8950.11	8672.18
12.00	DISCHG	8366.07	8059.84	7756.28	7457.11	7171.97	6898.60	6631.58	6385.22	6158.80	5938.01
13.00	DISCHG	5725.45	5536.56	5354.35	5176.56	5006.23	4851.28	4698.74	4551.74	4410.85	4280.71
14.00	DISCHG	4157.48	4035.91	3924.79	3825.88	3728.66	3633.03	3553.46	3476.49	3401.12	3330.42
15.00	DISCHG	3266.73	3203.89	3141.28	3079.78	3019.11	2958.32	2896.85	2837.71	2780.48	2724.28
16.00	DISCHG	2668.99	2619.71	2572.27	2525.69	2481.77	2441.59	2401.69	2362.10	2324.34	2287.87
17.00	DISCHG	2251.50	2214.67	2178.02	2140.97	2103.38	2065.24	2027.88	1991.63	1955.52	1921.26
18.00	DISCHG	1890.76	1861.37	1833.10	1807.08	1782.16	1757.56	1732.79	1708.56	1683.80	1658.34
19.00	DISCHG	1632.40	1606.54	1580.90	1555.57	1531.30	1508.66	1486.94	1465.68	1447.22	1429.99
20.00	DISCHG	1412.90	1396.71	1383.27	1370.28	1357.81	1345.84	1334.49	1323.01	1310.51	1296.95
21.00	DISCHG	1282.33	1266.70	1250.25	1233.74	1217.59	1201.30	1185.40	1171.57	1158.76	1147.09
22.00	DISCHG	1135.45	1124.12	1112.92	1100.00	1084.40	1067.11	1048.34	1028.49	1008.06	987.73
23.00	DISCHG	967.87	948.80	931.11	914.36	898.05	882.97	868.76	854.59	840.43	826.43
24.00	DISCHG	812.62	798.36	782.15	763.09	743.10	720.18	693.93	663.39	628.69	592.22
25.00	DISCHG	551.58	508.49	464.46	420.09	378.83	338.36	299.02	264.64	234.50	205.77
26.00	DISCHG	180.38	159.24	140.69	123.91	108.09	95.97	85.27	75.23	65.78	58.79

27.00	DISCHG	52.27	45.88	40.46	36.20	32.00	27.98	24.93	22.20	19.55	.07
28.00	DISCHG	15.26	13.51	11.87	10.38	9.23	8.18	7.14	6.27	5.59	4.91
29.00	DISCHG	4.22	3.73	3.27	2.82	2.40	2.10	1.81	1.53	1.29	1.11

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6215 CFS-HRS= 60300.62 ACRE-FT= 4983.24

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.19	10193.713	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.6215 CFS-HRS= 60300.34 ACRE-FT= 4983.22

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.63	2299.987	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.3790 CFS-HRS= 12909.59 ACRE-FT= 1066.85

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.04	12391.293	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5763 CFS-HRS= 73209.92 ACRE-FT= 6050.07

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.34	12365.079	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.01	.03	.09	.22	.40	.68	1.20	1.99	3.04
6.00	DISCHG	4.52	6.77	9.77	13.75	18.13	26.09	34.98	45.82	59.64	76.71
7.00	DISCHG	97.00	121.38	150.72	186.47	227.74	275.29	331.16	394.22	465.55	546.58
8.00	DISCHG	638.43	740.04	853.53	986.78	1138.45	1316.83	1525.02	1771.21	2063.34	2394.54
9.00	DISCHG	2773.45	3205.92	3685.29	4204.50	4764.78	5358.81	5978.53	6605.59	7229.59	7844.86
10.00	DISCHG	8438.34	9001.69	9523.24	10003.08	10439.82	10829.02	11171.70	11469.36	11728.24	11940.97
11.00	DISCHG	12106.42	12234.77	12321.79	12361.88	12356.07	12311.56	12222.98	12084.84	11905.43	11687.91

12.00	DISCHG	11431.09	11140.47	10825.08	10490.61	10143.03	9786.66	9429.52	9077.38	8734.48	04.41
13.00	DISCHG	8087.11	7785.94	7501.95	7232.66	6977.13	6736.21	6509.52	6293.76	6088.35	893.89
14.00	DISCHG	5708.78	5532.34	5363.85	5204.73	5054.48	4911.96	4778.52	4654.40	4538.35	4429.11
15.00	DISCHG	4327.38	4232.25	4141.93	4055.32	3972.72	3893.52	3816.56	3741.28	3667.65	3594.99
16.00	DISCHG	3523.46	3453.39	3385.15	3318.89	3254.71	3193.71	3135.81	3080.43	3027.52	2977.07
17.00	DISCHG	2928.24	2880.52	2833.46	2787.02	2741.07	2695.32	2649.60	2604.40	2559.46	2514.90
18.00	DISCHG	2471.21	2428.48	2387.01	2347.15	2309.27	2273.24	2238.75	2205.49	2173.35	2141.92
19.00	DISCHG	2110.84	2080.12	2049.63	2019.05	1988.50	1958.03	1927.82	1898.08	1869.15	1841.55
20.00	DISCHG	1815.22	1790.46	1767.59	1746.47	1726.78	1708.35	1691.09	1674.85	1659.10	1643.45
21.00	DISCHG	1627.93	1612.05	1595.53	1578.30	1560.27	1541.60	1522.96	1504.41	1486.46	1469.12
22.00	DISCHG	1452.09	1435.41	1419.42	1403.16	1386.63	1369.95	1352.96	1335.21	1316.30	1295.90
23.00	DISCHG	1274.29	1251.68	1228.41	1205.01	1181.80	1159.23	1137.57	1116.91	1097.20	1078.44
24.00	DISCHG	1060.57	1043.33	1026.09	1008.58	990.59	971.10	949.79	925.17	897.29	866.23
25.00	DISCHG	831.53	792.95	751.04	706.09	658.63	609.22	558.47	508.09	458.98	411.89
26.00	DISCHG	367.17	325.65	287.97	253.72	223.02	195.95	172.28	151.42	132.89	116.82
27.00	DISCHG	102.95	90.75	79.91	70.49	62.30	54.99	48.51	42.87	37.89	33.41
28.00	DISCHG	29.48	26.06	23.00	20.25	17.86	15.76	13.88	12.20	10.74	9.47
29.00	DISCHG	8.34	7.34	6.47	5.70	4.99	4.37	3.83	3.33	2.89	2.44

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5762 CFS-HRS= 73209.44 ACRE-FT= 6050.03

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.31	18234.698	1589.69

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.03	.12	.35	.79	1.45	2.42	3.83	5.72	8.06
6.00	DISCHG	11.01	14.98	20.05	26.59	34.96	45.21	57.79	73.17	91.65	113.53
7.00	DISCHG	140.49	172.34	209.34	254.14	307.80	368.67	439.49	524.53	621.54	730.99
8.00	DISCHG	858.75	1008.04	1173.07	1361.82	1593.23	1857.04	2153.52	2503.11	2917.57	3373.26
9.00	DISCHG	3879.65	4460.96	5095.91	5778.17	6511.81	7296.89	8136.45	9021.48	9931.76	10872.84
10.00	DISCHG	11822.55	12748.04	13627.35	14456.07	15218.23	15882.95	16464.23	16961.52	17367.49	17686.19
11.00	DISCHG	17929.47	18106.76	18201.38	18234.46	18211.63	18126.67	17986.88	17794.69	17555.75	17265.73
12.00	DISCHG	16928.92	16543.88	16112.35	15638.05	15127.44	14588.23	14032.67	13466.77	12901.54	12354.33
13.00	DISCHG	11826.63	11325.66	10858.01	10424.61	10022.33	9651.56	9314.48	9000.78	8707.02	8433.65
14.00	DISCHG	8176.86	7931.37	7694.97	7472.86	7260.04	7055.64	6863.35	6683.39	6513.47	6353.21
15.00	DISCHG	6205.15	6066.55	5935.33	5810.67	5692.62	5580.45	5473.30	5371.58	5274.11	5179.73
16.00	DISCHG	5088.43	4998.28	4907.70	4816.23	4724.57	4633.49	4544.08	4457.94	4375.99	4299.04
17.00	DISCHG	4226.58	4157.68	4091.15	4026.15	3962.14	3898.46	3834.94	3772.78	3712.27	3652.83
18.00	DISCHG	3594.40	3536.86	3478.85	3420.14	3361.30	3302.94	3245.67	3190.46	3138.46	3090.00
19.00	DISCHG	3044.90	3002.88	2963.02	2924.02	2885.18	2846.28	2806.21	2764.81	2723.01	2681.49
20.00	DISCHG	2640.42	2600.90	2564.54	2531.02	2500.34	2472.30	2446.46	2422.25	2398.59	2374.61
21.00	DISCHG	2350.91	2327.42	2304.47	2282.21	2260.48	2239.11	2218.09	2196.32	2173.61	2149.49
22.00	DISCHG	2123.61	2096.18	2067.62	2037.41	2007.03	1977.61	1949.68	1923.76	1899.74	1876.90
23.00	DISCHG	1854.28	1830.25	1803.36	1773.17	1739.36	1702.83	1665.40	1628.63	1593.68	1561.63

24.00	[illegible]CHG	1532.41	1505.97	1481.01	1455.37	[illegible].59	1400.11	1369.24	1333.00	1293.71	1[illegible]65
25.00	[illegible]CHG	1205.61	1155.51	1101.93	1045.02	5.18	921.43	853.21	782.68	709.65	.95
26.00	DISCHG	560.58	489.61	422.79	361.21	307.36	261.04	221.84	189.13	162.09	139.64
27.00	DISCHG	120.91	105.43	92.09	80.63	70.87	62.41	54.90	48.31	42.69	37.64
28.00	DISCHG	33.15	29.27	25.85	22.76	20.02	17.69	15.58	13.67	12.03	10.60
29.00	DISCHG	9.31	8.16	7.19	6.32	5.52	4.82	4.21	3.64	3.13	2.64

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 3.5521 CFS-HRS= 106184.65 ACRE-FT= 8775.10

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
15.83	5243.476	1586.35

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.01	.01	.03	.04	.07
6.00	DISCHG	.10	.15	.22	.30	.41	.56	.75	.99	1.29	1.67
7.00	DISCHG	2.13	2.70	3.40	4.24	5.27	6.50	7.97	9.73	11.81	14.27
8.00	DISCHG	17.16	20.55	24.52	29.12	34.48	40.74	48.01	56.45	66.28	77.68
9.00	DISCHG	90.81	93.36	95.05	96.98	99.17	101.63	104.38	107.07	109.59	112.36
10.00	DISCHG	115.37	118.64	121.13	123.66	126.34	129.14	131.79	134.41	137.10	139.85
11.00	DISCHG	142.11	144.01	145.92	147.84	149.76	151.47	153.13	154.78	156.41	158.01
12.00	DISCHG	159.60	161.16	162.69	164.17	231.84	383.06	527.05	663.76	1067.90	1449.63
13.00	DISCHG	1801.01	2123.80	2419.94	2691.42	2940.14	3167.89	3376.42	3567.33	3741.90	3901.34
14.00	DISCHG	4046.77	4179.10	4299.10	4407.57	4533.62	4651.25	4754.72	4845.21	4923.80	4991.47
15.00	DISCHG	5049.19	5097.90	5138.38	5171.31	5197.32	5217.01	5230.90	5239.49	5243.22	5242.49
16.00	DISCHG	5237.63	5228.92	5216.55	5200.66	5181.37	5158.85	5133.30	5104.96	5074.12	5041.10
17.00	DISCHG	5006.21	4969.72	4931.83	4892.68	4852.41	4811.07	4768.74	4725.49	4681.42	4636.65
18.00	DISCHG	4591.24	4545.26	4498.76	4451.72	4409.91	4374.32	4338.00	4301.02	4263.49	4225.53
19.00	DISCHG	4187.29	4148.88	4110.37	4071.84	4033.30	3994.74	3956.16	3917.50	3878.75	3839.90
20.00	DISCHG	3800.97	3761.99	3723.05	3684.24	3645.65	3607.37	3569.46	3531.98	3494.94	3458.34
21.00	DISCHG	3422.16	3386.40	3351.05	3316.12	3281.62	3247.55	3213.90	3180.66	3147.78	3115.21
22.00	DISCHG	3082.90	3050.77	3018.77	2986.86	2955.01	2923.22	2891.53	2860.00	2828.69	2797.64
23.00	DISCHG	2766.86	2736.33	2705.96	2675.66	2645.30	2614.78	2584.05	2553.11	2522.00	2490.82
24.00	DISCHG	2459.65	2428.60	2397.72	2367.02	2336.48	2306.03	2275.60	2245.07	2214.31	2183.21
25.00	DISCHG	2151.69	2119.62	2086.90	2053.43	2019.15	1983.95	1947.74	1910.43	1871.98	1832.37
26.00	DISCHG	1791.60	1749.78	1707.06	1663.64	1619.74	1575.64	1531.58	1487.79	1444.46	1401.74
27.00	DISCHG	1359.75	1318.59	1278.31	1238.95	1200.54	1163.09	1126.62	1091.13	1056.60	1023.03
28.00	DISCHG	990.42	958.74	927.99	898.15	869.20	841.12	813.90	787.50	761.92	737.14
29.00	DISCHG	713.12	689.86	667.79	660.96	654.19	647.48	640.83	634.24	627.72	621.26

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7760 CFS-HRS= 53089.61 ACRE-FT= 4387.33

ENDCMP

PASS= 5

EXECUTIVE CONTROL CARD 147 OPERATION COMPUT, FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 10.96 RAIN DURATION= 1.00 RAIN TABLE NO.= 6 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.= 9

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.04	1863.367	(RUNOFF)
14.45	395.531	(RUNOFF)
15.43	312.666	(RUNOFF)
17.49	230.077	(RUNOFF)
18.95	182.893	(RUNOFF)
19.97	182.170	(RUNOFF)
21.48	165.424	(RUNOFF)
22.48	115.170	(RUNOFF)
23.46	99.962	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4267 CFS-HRS= 9299.60 ACRE-FT= 768.52

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.02	1247.335	(RUNOFF)
9.47	1164.481	(RUNOFF)
9.97	1097.061	(RUNOFF)
10.45	1061.677	(RUNOFF)
14.41	266.081	(RUNOFF)
15.44	211.058	(RUNOFF)
17.47	155.747	(RUNOFF)
18.95	123.643	(RUNOFF)
19.96	123.552	(RUNOFF)
21.46	112.719	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.2935 CFS-HRS= 6208.76 ACRE-FT= 513.09

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.07	3096.920	(NULL)
14.45	661.350	(NULL)
15.45	524.085	(NULL)
17.53	384.517	(NULL)
18.96	306.138	(NULL)
20.00	303.661	(NULL)

.50	274.144	(NULL)
.52	192.135	(NULL)
23.46	167.155	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.3731 CFS-HRS= 15508.74 ACRE-FT= 1281.64

UBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

UBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.20	2449.522	(RUNOFF)
17.60	302.139	(RUNOFF)
20.09	234.654	(RUNOFF)
21.58	206.100	(RUNOFF)
22.58	149.600	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6896 CFS-HRS= 12561.94 ACRE-FT= 1038.12

UBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.11	5530.891	(NULL)
17.55	686.579	(NULL)
20.03	537.446	(NULL)
21.53	478.611	(NULL)
22.54	341.435	(NULL)
23.45	298.992	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5118 CFS-HRS= 28070.68 ACRE-FT= 2319.76

UBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

UBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
8.65	1516.548	(RUNOFF)
8.98	1553.175	(RUNOFF)
9.46	1424.754	(RUNOFF)
9.96	1328.375	(RUNOFF)
14.40	316.109	(RUNOFF)
15.41	250.457	(RUNOFF)
17.46	184.901	(RUNOFF)
18.94	146.119	(RUNOFF)
19.95	146.746	(RUNOFF)

21.45 134.422 (RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.8171 CFS-HRS= 7681.86 ACRE-FT= 634.83

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.19	6936.477	(NULL)
17.58	864.244	(NULL)
20.06	672.185	(NULL)
21.57	589.888	(NULL)
22.57	427.531	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5758 CFS-HRS= 35753.10 ACRE-FT= 2954.64

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.07	1686.538	(RUNOFF)
17.56	195.914	(RUNOFF)
20.03	153.458	(RUNOFF)
21.54	136.929	(RUNOFF)
22.55	97.293	(RUNOFF)
23.46	85.063	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 9.2050 CFS-HRS= 8495.05 ACRE-FT= 702.03

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.32	8544.625	(NULL)
17.67	1056.633	(NULL)
20.17	818.025	(NULL)
21.68	711.757	(NULL)
22.65	521.436	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6900 CFS-HRS= 44249.26 ACRE-FT= 3656.76

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.03	707.918	(RUNOFF)
14.43	146.747	(RUNOFF)
15.41	116.313	(RUNOFF)
17.49	85.478	(RUNOFF)
18.95	67.945	(RUNOFF)
19.98	67.570	(RUNOFF)
21.47	61.216	(RUNOFF)
22.49	42.725	(RUNOFF)
23.45	37.090	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6887 CFS-HRS= 3532.68 ACRE-FT= 291.94

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.39	9193.956	(NULL)
20.18	878.333	(NULL)
21.69	758.494	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6899 CFS-HRS= 47782.07 ACRE-FT= 3948.71

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.00	226.103	(RUNOFF)
9.48	210.976	(RUNOFF)
9.97	198.604	(RUNOFF)
14.41	48.178	(RUNOFF)
15.45	38.315	(RUNOFF)
17.46	28.228	(RUNOFF)
18.95	22.401	(RUNOFF)
19.96	22.416	(RUNOFF)
21.45	20.495	(RUNOFF)
22.46	14.196	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.2937 CFS-HRS= 1124.03 ACRE-FT= 92.89

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.39	9403.917	(NULL)
20.15	898.485	(NULL)
21.66	774.420	(NULL)

TIME				HYDROGRAPH, TZERO=			DELTA T= .10		DRAINAGE AREA=		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.01	.09	.46	1.44	3.24	5.73	8.68	12.20	16.78
3.00	DISCHG	22.62	29.44	37.09	45.71	55.41	65.97	77.45	90.23	104.52	120.03
4.00	DISCHG	136.30	153.42	172.15	192.57	214.21	236.09	258.03	280.73	304.17	327.96
5.00	DISCHG	351.02	372.90	392.74	410.56	426.49	441.07	454.23	465.28	474.51	482.55
6.00	DISCHG	490.52	505.40	537.73	587.30	650.88	721.08	800.75	901.77	1019.93	1147.22
7.00	DISCHG	1273.39	1398.33	1529.63	1664.07	1795.39	1917.84	2044.87	2202.52	2385.29	2585.99
8.00	DISCHG	2794.42	3074.71	3531.62	4147.95	4881.39	5658.36	6429.66	7177.26	7856.38	8416.21
9.00	DISCHG	8844.20	9141.79	9312.68	9389.81	9403.62	9380.48	9324.56	9227.57	9109.60	8989.62
10.00	DISCHG	8882.03	8782.32	8676.71	8572.13	8476.06	8392.45	8280.63	8082.97	7812.38	7487.92
11.00	DISCHG	7142.91	6769.75	6339.93	5896.50	5474.68	5099.92	4770.02	4467.78	4200.28	3979.30
12.00	DISCHG	3807.52	3670.91	3549.66	3439.73	3340.27	3252.74	3169.16	3076.47	2979.54	2883.27
13.00	DISCHG	2793.53	2708.32	2621.95	2538.98	2464.34	2401.09	2346.12	2293.15	2243.08	2197.44
14.00	DISCHG	2157.89	2124.51	2096.32	2073.68	2057.22	2046.24	2032.82	2006.32	1968.13	1919.80
15.00	DISCHG	1866.72	1812.67	1759.62	1712.57	1676.09	1650.74	1632.03	1613.87	1594.63	1573.52
16.00	DISCHG	1551.73	1529.98	1508.39	1488.80	1472.96	1461.01	1447.42	1424.45	1392.92	1354.39
17.00	DISCHG	1312.74	1271.83	1234.48	1204.10	1183.82	1173.15	1168.74	1166.28	1163.47	1158.65
18.00	DISCHG	1151.70	1140.60	1122.40	1099.26	1073.30	1047.08	1021.88	998.36	978.27	963.19
19.00	DISCHG	953.11	945.59	937.46	928.05	917.03	905.24	894.73	887.96	885.34	887.32
20.00	DISCHG	892.81	897.86	897.84	892.06	880.23	863.98	843.87	819.62	794.27	770.46
21.00	DISCHG	749.97	735.63	730.65	733.69	744.16	759.35	771.99	773.56	762.73	739.73
22.00	DISCHG	708.32	673.52	639.63	611.00	591.66	581.45	576.94	573.82	569.78	563.39
23.00	DISCHG	554.90	545.32	535.56	526.88	520.37	516.16	512.59	507.28	500.20	491.30
24.00	DISCHG	481.05	463.62	430.82	385.74	331.73	274.51	217.46	162.27	113.51	75.20
25.00	DISCHG	48.07	30.25	19.02	12.01	7.62	4.86	3.13	2.02	1.29	.81
26.00	DISCHG	.49	.28	.14	.06	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6804 CFS-HRS= 48906.10 ACRE-FT= 4041.60

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.39	9403.917	(NULL)
20.15	898.485	(NULL)
21.66	774.420	(NULL)

TIME				HYDROGRAPH, TZERO=	.00		DELTA T= .10		DRAINAGE AREA=	8.73	
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.01	.09	.46	1.44	3.24	5.73	8.68	12.20	16.78
3.00	DISCHG	22.62	29.44	37.09	45.71	55.41	65.97	77.45	90.23	104.52	120.03
4.00	DISCHG	136.30	153.42	172.15	192.57	214.21	236.09	258.03	280.73	304.17	327.96
5.00	DISCHG	351.02	372.90	392.74	410.56	426.49	441.07	454.23	465.28	474.51	482.55
6.00	DISCHG	490.52	505.40	537.73	587.30	650.88	721.08	800.75	901.77	1019.93	1147.22
7.00	DISCHG	1273.39	1398.33	1529.63	1664.07	1795.39	1917.84	2044.87	2202.52	2385.29	2585.99
8.00	DISCHG	2794.42	3074.71	3531.62	4147.95	4881.39	5658.36	6429.66	7177.26	7856.38	8416.21
9.00	DISCHG	8844.20	9141.79	9312.68	9389.81	9403.62	9380.48	9324.56	9227.57	9109.60	8989.62
10.00	DISCHG	8882.03	8782.32	8676.71	8572.13	8476.06	8392.45	8280.63	8082.97	7812.38	7487.92
11.00	DISCHG	7142.91	6769.75	6339.93	5896.50	5474.68	5099.92	4770.02	4467.78	4200.28	3979.30

12.00	DISCHG	3807.52	3670.91	3549.66	3439.73	3340.27	3252.74	3169.16	3076.47	2979.54	2883.27
13.00	DISCHG	2793.53	2708.32	2621.95	2538.98	2464.34	2401.09	2346.12	2293.15	2243.08	2197.44
14.00	DISCHG	2157.89	2124.51	2096.32	2073.68	2057.22	2046.24	2032.82	2006.32	1968.13	1919.80
15.00	DISCHG	1866.72	1812.67	1759.62	1712.57	1676.09	1650.74	1632.03	1613.87	1594.63	1573.52
16.00	DISCHG	1551.73	1529.98	1508.39	1488.80	1472.96	1461.01	1447.42	1424.45	1392.92	1354.39
17.00	DISCHG	1312.74	1271.83	1234.48	1204.10	1183.82	1173.15	1168.74	1166.28	1163.47	1158.65
18.00	DISCHG	1151.70	1140.60	1122.40	1099.26	1073.30	1047.08	1021.88	998.36	978.27	963.19
19.00	DISCHG	953.11	945.59	937.46	928.05	917.03	905.24	894.73	887.96	885.34	887.32
20.00	DISCHG	892.81	897.86	897.84	892.06	880.23	863.98	843.87	819.62	794.27	770.46
21.00	DISCHG	749.97	735.63	730.65	733.69	744.16	759.35	771.99	773.56	762.73	739.73
22.00	DISCHG	708.32	673.52	639.63	611.00	591.66	581.45	576.94	573.82	569.78	563.39
23.00	DISCHG	554.90	545.32	535.56	526.88	520.37	516.16	512.59	507.28	500.20	491.30
24.00	DISCHG	481.05	463.62	430.82	385.74	331.73	274.51	217.46	162.27	113.51	75.20
25.00	DISCHG	48.07	30.25	19.02	12.01	7.62	4.86	3.13	2.02	1.29	.81
26.00	DISCHG	.49	.28	.14	.06	.00					

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6804 CFS-HRS= 48906.10 ACRE-FT= 4041.60

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.03	9296.232	(NULL)
21.57	893.272	(NULL)
23.16	759.243	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.6804 CFS-HRS= 48906.25 ACRE-FT= 4041.61

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.79	4915.525	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 7.7609 CFS-HRS= 29400.93 ACRE-FT= 2429.69

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.99	14187.525	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.02	.10	.32	.82	1.85
4.00	DISCHG	3.41	5.52	8.56	12.67	17.62	23.48	31.72	40.94	51.12	63.35
5.00	DISCHG	77.57	92.85	109.38	128.94	149.62	171.43	195.17	220.65	247.32	275.18
6.00	DISCHG	305.03	335.57	366.69	400.32	435.08	469.52	504.61	544.17	582.26	618.79
7.00	DISCHG	661.44	705.11	747.14	791.42	844.75	900.61	962.46	1045.03	1141.04	1248.56
8.00	DISCHG	1380.40	1547.48	1728.00	1920.60	2176.79	2446.55	2721.39	3029.72	3379.79	3730.69

9.00	DISCHG	4084.72	4471.08	4870.66	5286.4	5714.13	6173.27	6703.91	7326.59	7994.49	8753.42
10.0	DISCHG	9578.53	10398.91	11187.81	11936.6	12607.67	13136.17	13559.34	13877.85	14067.63	14159.71
11.00	DISCHG	14167.44	14153.32	14074.25	13988.76	13727.83	13525.50	13307.48	13089.58	12867.09	12625.86
12.00	DISCHG	12373.75	12095.88	11781.52	11422.63	11018.45	10577.61	10110.79	9614.70	9103.74	8611.13
13.00	DISCHG	8136.15	7685.87	7273.28	6905.87	6576.62	6284.33	6036.76	5816.53	5617.28	5439.58
14.00	DISCHG	5278.66	5123.72	4971.63	4831.91	4693.41	4556.55	4426.95	4304.32	4185.99	4073.82
15.00	DISCHG	3972.42	3877.07	3787.21	3703.76	3626.09	3553.57	3486.95	3428.60	3375.64	3327.09
16.00	DISCHG	3282.98	3238.53	3189.58	3135.00	3076.13	3011.95	2944.76	2879.31	2817.38	2760.70
17.00	DISCHG	2709.97	2664.48	2622.57	2582.63	2543.88	2505.43	2467.23	2430.81	2397.39	2365.37
18.00	DISCHG	2333.68	2302.07	2267.05	2227.38	2183.54	2136.92	2089.32	2043.37	2001.66	1965.71
19.00	DISCHG	1935.92	1911.76	1891.62	1873.46	1855.61	1837.60	1816.69	1792.14	1765.24	1736.27
20.00	DISCHG	1705.62	1674.91	1646.87	1621.01	1598.04	1577.86	1559.85	1543.09	1526.47	1508.97
21.00	DISCHG	1491.82	1475.76	1462.10	1451.27	1443.12	1437.01	1431.66	1424.66	1414.58	1400.48
22.00	DISCHG	1382.17	1359.98	1334.06	1305.31	1276.73	1250.39	1227.66	1210.49	1199.47	1193.85
23.00	DISCHG	1191.19	1187.78	1180.04	1166.02	1144.33	1115.83	1083.59	1050.65	1019.41	992.08
24.00	DISCHG	968.62	949.56	933.57	916.65	898.37	879.67	859.80	835.54	811.71	788.69
25.00	DISCHG	764.94	740.79	716.41	691.45	665.70	636.03	600.11	558.96	510.31	454.25
26.00	DISCHG	394.08	334.40	275.26	219.71	172.69	133.55	101.93	77.78	60.43	47.37
27.00	DISCHG	37.39	30.68	25.51	21.28	18.02	15.63	13.48	11.49	10.16	8.93
28.00	DISCHG	7.74	6.79	6.04	5.30	4.58	4.09	3.60	3.11	2.71	2.39
29.00	DISCHG	2.06	1.75	1.53	1.32	1.11	.94	.80	.65	.52	.43

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.3108 CFS-HRS= 78307.17 ACRE-FT= 6471.30

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
9.91	5536.172	(RUNOFF)
21.63	484.060	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5586 CFS-HRS= 30489.54 ACRE-FT= 2519.66

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.81	11896.944	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5579 CFS-HRS= 72406.24 ACRE-FT= 5983.65

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.78	17365.204	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.5580 CFS-HRS= 102894.64 ACRE-FT= 8503.21

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.54	6576.219	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.2950 CFS-HRS= 38383.25 ACRE-FT= 3171.99

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.77	23930.061	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.05	.10	.15
3.00	DISCHG	.38	1.18	2.09	2.99	5.15	9.09	13.24	17.75	27.52	38.85
4.00	DISCHG	51.02	66.67	88.29	110.84	136.54	165.52	198.64	234.44	271.69	312.49
5.00	DISCHG	356.85	402.55	448.80	498.30	549.78	599.54	650.21	700.47	750.48	800.17
6.00	DISCHG	850.51	901.27	952.30	1005.16	1065.91	1131.32	1205.79	1282.96	1388.16	1510.73
7.00	DISCHG	1638.33	1781.86	1968.65	2161.81	2361.46	2603.53	2865.89	3132.61	3419.01	3765.75
8.00	DISCHG	4122.58	4524.29	4961.92	5506.46	6121.60	6778.79	7525.87	8444.65	9439.46	10478.24
9.00	DISCHG	11636.41	12869.99	14129.21	15378.73	16556.28	17716.22	18815.57	19781.36	20610.98	21371.75
10.00	DISCHG	22020.21	22543.40	22954.92	23286.52	23595.41	23754.86	23825.87	23885.64	23921.33	23771.98
11.00	DISCHG	23615.53	23449.71	23148.93	22744.08	22317.24	21824.71	21232.39	20586.89	19912.10	19220.61
12.00	DISCHG	18483.40	17752.76	17031.91	16324.77	15660.50	15024.99	14404.15	13834.81	13315.08	12808.08
13.00	DISCHG	12320.48	11890.67	11476.84	11073.59	10688.49	10340.59	9998.54	9669.77	9355.35	9066.21
14.00	DISCHG	8792.91	8523.25	8277.31	8059.04	7844.45	7633.25	7458.20	7288.79	7122.80	6967.41
15.00	DISCHG	6827.85	6690.10	6553.23	6419.37	6287.88	6156.46	6023.79	5896.70	5774.00	5653.58
16.00	DISCHG	5535.08	5429.81	5328.45	5228.92	5135.13	5049.53	4964.52	4880.23	4800.03	4722.65
17.00	DISCHG	4645.50	4567.52	4490.17	4412.07	4332.98	4252.79	4174.43	4098.48	4022.80	3951.02
18.00	DISCHG	3887.12	3825.51	3766.19	3711.66	3659.43	3607.85	3555.98	3505.34	3453.61	3400.50
19.00	DISCHG	3346.45	3292.65	3239.33	3186.67	3136.22	3089.17	3044.02	2999.82	2961.40	2925.54
20.00	DISCHG	2889.98	2856.27	2828.23	2801.12	2775.07	2750.07	2726.36	2702.38	2676.32	2648.13
21.00	DISCHG	2617.80	2585.44	2551.42	2517.32	2483.99	2450.37	2417.55	2389.00	2362.51	2338.35
22.00	DISCHG	2314.26	2290.83	2267.65	2240.96	2208.87	2173.35	2134.84	2094.14	2052.31	2010.68
23.00	DISCHG	1970.02	1930.97	1894.75	1860.46	1827.03	1796.16	1767.07	1738.06	1709.07	1680.44
24.00	DISCHG	1652.19	1623.02	1589.89	1551.00	1510.20	1463.43	1409.95	1347.78	1277.12	1203.89
25.00	DISCHG	1120.26	1032.67	943.17	853.01	769.19	686.99	607.08	537.27	476.08	417.73
26.00	DISCHG	366.19	323.26	285.59	251.52	219.42	194.80	173.07	152.69	133.52	119.31
27.00	DISCHG	106.08	93.12	82.11	73.45	64.93	56.78	50.58	45.03	39.66	34.62
28.00	DISCHG	30.96	27.39	24.08	21.05	18.72	16.59	14.47	12.71	11.33	9.94
29.00	DISCHG	8.56	7.57	6.63	5.70	4.86	4.26	3.66	3.10	2.62	2.24

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4849 CFS-HRS= 141277.87 ACRE-FT= 11675.20

SUBROUTINE REACH CROSS SECTION 3

NGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.95	23880.644	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4848 CFS-HRS= 141276.97 ACRE-FT= 11675.13

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.35	5540.776	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.1620 CFS-HRS= 31183.74 ACRE-FT= 2577.02

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
10.84	29183.099	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4246 CFS-HRS= 172460.72 ACRE-FT= 14252.15

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.12	29146.884	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.02	.06	.12	.30	.70	1.36	2.40	4.14	7.10
4.00	DISCHG	11.23	16.86	25.22	36.30	50.43	67.99	89.71	115.58	145.07	178.76
5.00	DISCHG	216.56	258.20	303.23	351.50	403.10	457.37	513.63	571.79	631.46	691.89
6.00	DISCHG	752.63	813.10	873.17	933.51	994.69	1057.04	1122.63	1191.84	1268.88	1355.38
7.00	DISCHG	1451.83	1561.84	1688.68	1837.21	2004.64	2192.18	2404.99	2639.74	2897.06	3179.88
8.00	DISCHG	3490.09	3824.04	4186.37	4596.86	5051.85	5573.00	6167.46	6853.72	7651.00	8542.31
9.00	DISCHG	9539.60	10655.78	11871.87	13166.62	14537.93	15959.04	17415.66	18858.64	20254.69	21594.46
10.00	DISCHG	22851.64	24007.41	25035.98	25942.89	26730.79	27393.56	27936.95	28371.09	28714.23	28953.55
11.00	DISCHG	29089.35	29145.75	29117.12	28993.35	28777.88	28486.14	28108.36	27634.40	27080.43	26454.88
12.00	DISCHG	25755.65	24994.64	24190.62	23354.84	22501.86	21640.07	20785.21	19948.91	19140.71	18367.64
13.00	DISCHG	17627.70	16928.41	16271.87	15651.56	15064.81	14513.54	13996.73	13506.35	13040.90	12601.83
14.00	DISCHG	12185.28	11789.37	11412.30	11057.16	10722.58	10405.77	10109.54	9834.42	9577.48	9335.81
15.00	DISCHG	9111.06	8901.15	8702.07	8511.43	8329.97	8156.28	7987.84	7823.47	7663.17	7505.44
16.00	DISCHG	7350.54	7199.18	7052.15	6909.60	6771.70	6640.79	6516.64	6397.97	6284.67	6176.74
17.00	DISCHG	6072.39	5970.50	5870.19	5771.32	5673.62	5576.48	5479.57	5383.91	5288.94	5194.91
18.00	DISCHG	5102.83	5012.87	4925.65	4841.87	4762.23	4686.49	4613.98	4544.05	4476.51	4410.45
19.00	DISCHG	4345.18	4280.71	4216.80	4152.75	4088.86	4025.19	3962.12	3900.09	3839.76	3782.20

20.00	DISCHG	3727.31	3675.68	3627.96	3583.89	[illegible].76	3504.27	3468.18	3434.21	3401.25	[illegible].49
21.00	DISCHG	3335.99	3302.77	3268.23	3232.27	[illegible].70	3155.88	3117.15	3078.67	3041.47	[illegible].55
22.00	DISCHG	2970.28	2935.74	2902.61	2868.90	2834.63	2800.04	2764.81	2728.03	2688.92	2646.82
23.00	DISCHG	2602.27	2555.75	2507.90	2459.82	2412.17	2365.83	2321.37	2278.96	2238.49	2199.97
24.00	DISCHG	2163.30	2127.90	2092.48	2056.57	2019.64	1979.64	1935.91	1885.42	1828.25	1764.60
25.00	DISCHG	1693.52	1614.58	1528.87	1437.01	1340.13	1239.34	1135.86	1033.22	933.21	837.35
26.00	DISCHG	746.37	661.90	585.27	515.61	453.19	398.17	350.04	307.64	269.98	237.33
27.00	DISCHG	209.13	184.33	162.31	143.17	126.52	111.66	98.50	87.05	76.91	67.83
28.00	DISCHG	59.85	52.89	46.68	41.10	36.23	31.97	28.16	24.75	21.79	19.21
29.00	DISCHG	16.91	14.88	13.11	11.55	10.12	8.87	7.76	6.76	5.85	4.94

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.4245 CFS-HRS= 172459.70 ACRE-FT= 14252.07

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES 11.06
PEAK DISCHARGES 43310.635
PEAK ELEVATIONS 1595.26

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.02	.06	.12	.30	.72	1.46	2.72	4.95	8.95
4.00	DISCHG	14.63	22.38	33.78	48.97	68.05	91.47	121.43	156.52	196.20	242.11
5.00	DISCHG	294.13	351.05	412.61	480.44	552.71	628.80	708.80	792.45	878.78	967.07
6.00	DISCHG	1057.65	1148.66	1239.86	1333.83	1429.78	1526.56	1627.25	1736.01	1851.14	1974.17
7.00	DISCHG	2113.27	2266.95	2435.82	2628.63	2849.39	3092.79	3367.44	3684.77	4038.11	4428.44
8.00	DISCHG	4870.49	5371.52	5914.36	6517.46	7228.64	8019.55	8888.84	9883.44	11030.79	12272.99
9.00	DISCHG	13624.32	15126.87	16742.53	18453.10	20252.06	22132.31	24119.57	26185.23	28249.18	30347.88
10.00	DISCHG	32430.18	34406.32	36223.79	37879.51	39338.46	40529.73	41496.28	42248.94	42781.86	43113.25
11.00	DISCHG	43276.79	43299.07	43151.37	42882.10	42505.71	42011.64	41415.84	40723.97	39947.52	39080.74
12.00	DISCHG	38129.40	37090.52	35972.14	34777.47	33520.31	32217.67	30896.00	29563.61	28244.46	26978.77
13.00	DISCHG	25763.84	24614.28	23545.15	22557.43	21641.43	20797.87	20033.50	19322.88	18658.18	18041.41
14.00	DISCHG	17463.94	16913.09	16383.93	15889.07	15415.99	14962.32	14536.48	14138.74	13763.47	13409.64
15.00	DISCHG	13083.47	12778.22	12489.24	12215.19	11956.06	11709.85	11474.79	11252.07	11038.81	10832.53
16.00	DISCHG	10633.52	10437.71	10241.72	10044.60	9847.84	9652.74	9461.40	9277.28	9102.05	8937.44
17.00	DISCHG	8782.36	8634.98	8492.76	8353.96	8217.50	8081.91	7946.79	7814.72	7686.33	7560.28
18.00	DISCHG	7436.51	7314.95	7192.70	7069.24	6945.77	6823.41	6703.30	6587.42	6478.17	6376.16
19.00	DISCHG	6281.10	6192.46	6108.42	6026.21	5944.48	5862.79	5778.80	5692.23	5605.00	5518.47
20.00	DISCHG	5432.93	5350.59	5274.83	5204.89	5140.80	5082.13	5028.03	4977.30	4927.72	4877.46
21.00	DISCHG	4827.81	4778.52	4730.33	4683.54	4637.82	4592.88	4548.82	4503.33	4456.05	4406.03
22.00	DISCHG	4352.45	4295.72	4236.67	4174.21	4111.36	4050.43	3992.46	3938.52	3888.39	3840.67
23.00	DISCHG	3793.46	3743.52	3687.94	3625.85	3556.50	3481.65	3404.97	3329.61	3257.90	3192.05
24.00	DISCHG	3131.92	3077.47	3026.05	2973.22	2918.01	2859.31	2795.71	2720.97	2639.97	2553.29
25.00	DISCHG	2458.45	2355.37	2245.28	2128.46	2005.83	1875.37	1735.98	1592.18	1443.52	1291.60
26.00	DISCHG	1140.45	996.30	860.53	735.32	625.88	531.72	451.97	385.42	330.41	284.70
27.00	DISCHG	246.52	215.00	187.83	164.45	144.54	127.29	111.98	98.53	87.08	76.76
28.00	DISCHG	67.59	59.68	52.72	46.40	40.81	36.06	31.76	27.86	24.51	21.60
29.00	DISCHG	18.97	16.62	14.65	12.87	11.23	9.81	8.56	7.41	6.37	5.37

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 8.3887 CFS-HRS= 250766.85 ACRE-FT= 20723.37

SUBROUTINE ESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.90	26967.070	1591.63

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.01	.03	.05
4.00	DISCHG	.10	.17	.27	.42	.64	.93	1.32	1.83	2.48	3.28
5.00	DISCHG	4.26	5.44	6.83	8.46	10.34	12.49	14.92	17.64	20.67	24.01
6.00	DISCHG	27.67	31.65	35.95	40.59	45.55	50.85	56.50	62.52	68.93	75.75
7.00	DISCHG	83.04	90.84	92.70	93.59	94.54	95.58	96.72	97.95	99.32	100.81
8.00	DISCHG	102.45	104.27	106.20	107.84	109.66	111.68	113.92	116.41	119.12	121.22
9.00	DISCHG	123.55	126.14	129.02	131.91	134.95	138.29	141.61	144.27	147.15	150.21
10.00	DISCHG	153.12	156.21	159.49	162.97	340.30	928.80	2252.45	3560.77	4997.66	6698.81
11.00	DISCHG	8334.80	9901.62	11501.99	13398.30	15161.08	16791.60	18291.21	19661.85	20905.84	22025.54
12.00	DISCHG	23023.17	23900.88	24660.88	25305.56	25837.68	26260.77	26579.45	26799.10	26925.75	26967.02
13.00	DISCHG	26931.18	26826.35	26661.08	26443.87	26182.45	25883.83	25554.80	25201.19	24827.48	24437.71
14.00	DISCHG	24035.45	23623.46	23203.76	22778.51	22349.72	21918.86	21487.46	21057.23	20629.64	20205.85
15.00	DISCHG	19787.09	19374.54	18968.93	18570.79	18180.56	17798.61	17425.17	17060.42	16704.50	16357.38
16.00	DISCHG	16018.95	15689.01	15367.13	15052.79	14745.52	14444.94	14150.83	13863.12	13581.91	13307.39
17.00	DISCHG	13039.78	12779.16	12525.52	12278.68	12038.42	11804.43	11576.37	11354.00	11137.17	10966.10
18.00	DISCHG	10810.65	10656.68	10504.14	10352.93	10202.97	10054.22	9906.70	9760.51	9615.82	9472.88
19.00	DISCHG	9331.94	9193.19	9056.80	8922.79	8791.12	8661.68	8534.33	8408.87	8285.14	8163.06
20.00	DISCHG	8042.60	7923.77	7806.73	7691.66	7578.75	7468.15	7359.99	7254.32	7151.13	7050.34
21.00	DISCHG	6951.82	6855.51	6761.32	6669.23	6579.20	6491.17	6405.08	6320.86	6238.32	6157.31
22.00	DISCHG	6077.60	5999.00	5921.32	5844.41	5768.13	5692.50	5617.59	5543.53	5470.46	5398.47
23.00	DISCHG	5327.59	5257.70	5188.58	5119.92	5051.39	4982.70	4913.70	4844.38	4774.87	4705.39
24.00	DISCHG	4636.21	4567.55	4499.61	4432.37	4381.60	4332.30	4282.60	4232.27	4181.03	4128.71
25.00	DISCHG	4075.12	4020.03	3963.24	3904.58	3843.91	3781.06	3715.83	3648.08	3577.73	3504.75
26.00	DISCHG	3429.17	3351.21	3271.21	3189.54	3106.69	3023.21	2939.62	2856.38	2773.87	2692.43
27.00	DISCHG	2612.29	2533.65	2456.64	2381.33	2307.80	2236.08	2166.19	2098.13	2031.91	1967.52
28.00	DISCHG	1904.93	1844.13	1785.09	1727.78	1672.16	1618.22	1565.90	1515.18	1466.01	1418.36
29.00	DISCHG	1372.19	1327.47	1284.15	1242.20	1201.57	1162.24	1124.17	1087.31	1051.63	1017.10

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 6.5628 CFS-HRS= 196184.62 ACRE-FT= 16212.70

ENDCMP

EXECUTIVE CONTROL CARD 149 OPERATION INCREM. MAIN TIME INCREMENT= .10
EXECUTIVE CONTROL CARD 156 OPERATION INCREM. MAIN TIME INCREMENT= .10
EXECUTIVE CONTROL CARD 157 OPERATION COMPUT. FROM XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1
STARTING TIME= .00 RAIN DEPTH= 2.45 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.=10

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	795.607	(RUNOFF)
16.96	38.319	(RUNOFF)
19.45	28.653	(RUNOFF)
20.41	25.237	(RUNOFF)
21.50	25.240	(RUNOFF)
22.37	21.938	(RUNOFF)
23.49	21.878	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8530 CFS-HRS= 941.38 ACRE-FT= 77.80

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.04	528.314	(RUNOFF)
16.96	25.086	(RUNOFF)
19.45	18.805	(RUNOFF)
20.45	16.598	(RUNOFF)
21.47	16.640	(RUNOFF)
22.45	14.455	(RUNOFF)
23.47	14.449	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8035 CFS-HRS= 601.51 ACRE-FT= 49.71

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.10	1231.271	(NULL)
16.97	63.326	(NULL)
19.46	47.394	(NULL)
20.45	41.837	(NULL)
21.54	41.577	(NULL)
22.45	36.398	(NULL)
23.53	36.016	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8328 CFS-HRS= 1542.52 ACRE-FT= 127.47

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.22	876.493	(RUNOFF)
19.39	39.981	(RUNOFF)
21.64	34.171	(RUNOFF)
23.64	29.427	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9596 CFS-HRS= 1387.21 ACRE-FT= 114.64

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.13	2051.964	(NULL)
19.46	87.387	(NULL)
21.57	75.641	(NULL)
23.57	65.322	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8884 CFS-HRS= 2929.73 ACRE-FT= 242.11

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.00	821.996	(RUNOFF)
16.95	33.597	(RUNOFF)
19.45	24.984	(RUNOFF)
20.41	21.925	(RUNOFF)
21.46	22.088	(RUNOFF)
22.45	19.102	(RUNOFF)
23.46	19.127	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.0180 CFS-HRS= 886.97 ACRE-FT= 73.30

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.26	2226.176	(NULL)
19.46	112.227	(NULL)

21.62	85.539	(NULL)
23.62	82.252	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9154 CFS-HRS= 3816.33 ACRE-FT= 315.38

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	828.503	(RUNOFF)
19.45	28.745	(RUNOFF)
21.57	24.825	(RUNOFF)
23.57	21.346	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2007 CFS-HRS= 1108.10 ACRE-FT= 91.57

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.32	2719.400	(NULL)
19.45	140.834	(NULL)
21.74	119.030	(NULL)
23.74	102.271	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9668 CFS-HRS= 4923.03 ACRE-FT= 406.84

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	330.911	(RUNOFF)
16.96	15.136	(RUNOFF)
19.45	11.275	(RUNOFF)
20.45	9.937	(RUNOFF)
21.50	9.890	(RUNOFF)
23.50	8.559	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9601 CFS-HRS= 390.36 ACRE-FT= 32.26

SUBROUTINE ADDHYD CROSS SECTION 111

PUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.38	2912.097	(NULL)
21.78	127.807	(NULL)
23.78	109.692	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9663 CFS-HRS= 5313.47 ACRE-FT= 439.11

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 · OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	97.079	(RUNOFF)
16.96	4.545	(RUNOFF)
19.45	3.405	(RUNOFF)
20.45	3.008	(RUNOFF)
21.46	3.019	(RUNOFF)
22.45	2.617	(RUNOFF)
23.46	2.624	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8036 CFS-HRS= 108.91 ACRE-FT= 9.00

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	2841.991	(NULL)
21.77	130.477	(NULL)
23.77	111.959	(NULL)

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10			DRAINAGE AREA= 8.73		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.04	.14	.35
9.00	DISCHG	.68	1.09	1.57	2.14	2.76	3.40	4.06	4.78	5.58	6.47
10.00	DISCHG	7.51	8.82	10.61	13.04	15.94	19.05	22.41	26.64	32.24	39.05
11.00	DISCHG	46.37	54.70	66.31	82.38	102.19	125.09	184.77	358.87	682.71	1147.40
12.00	DISCHG	1699.06	2224.33	2600.21	2806.83	2837.78	2741.30	2546.08	2252.19	1911.85	1591.37
13.00	DISCHG	1329.94	1128.86	970.49	844.88	746.86	672.95	616.79	570.04	529.78	495.35
14.00	DISCHG	467.06	443.49	422.12	402.80	386.02	372.22	360.60	349.68	339.40	330.10
15.00	DISCHG	322.18	315.08	307.64	300.05	292.68	285.99	279.57	272.53	265.07	257.68
16.00	DISCHG	250.95	244.78	238.58	232.62	227.24	222.71	219.02	215.99	213.58	211.83
17.00	DISCHG	210.68	209.71	208.36	206.60	204.47	202.21	199.68	196.51	192.95	189.34
18.00	DISCHG	185.99	182.72	179.08	175.20	171.38	167.89	164.82	162.09	159.80	158.08

19.00	DISCHG	156.91	156.19	155.78	155.58	155.49	155.47	155.20	154.21	152.60	150.50
20.00	DISCHG	148.20	145.89	143.63	141.62	140.06	138.96	137.96	136.50	134.58	132.25
21.00	DISCHG	129.80	127.70	126.45	126.09	126.69	127.98	129.37	130.28	130.44	129.76
22.00	DISCHG	128.48	126.82	124.96	123.18	121.75	120.71	119.73	118.29	116.34	113.98
23.00	DISCHG	111.48	109.33	108.03	107.65	108.24	109.51	110.90	111.77	111.92	111.22
24.00	DISCHG	109.82	106.45	99.20	88.70	75.94	62.56	49.47	36.95	25.92	17.23
25.00	DISCHG	11.05	6.98	4.40	2.79	1.77	1.13	.73	.47	.30	.19
26.00	DISCHG	.11	.06	.03	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9624 CFS-HRS= 5422.39 ACRE-FT= 448.11

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	2841.991	(NULL)
21.77	130.477	(NULL)
23.77	111.959	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.04	.14	.36
9.00	DISCHG	.68	1.09	1.57	2.14	2.76	3.40	4.06	4.78	5.58	6.47
10.00	DISCHG	7.51	8.82	10.61	13.04	15.94	19.05	22.41	26.64	32.24	39.05
11.00	DISCHG	46.37	54.70	66.31	82.38	102.19	125.09	184.77	358.87	682.71	1147.40
12.00	DISCHG	1699.06	2224.33	2600.21	2806.83	2837.78	2741.30	2546.08	2252.19	1911.85	1591.37
13.00	DISCHG	1329.94	1128.86	970.49	844.88	746.86	672.95	616.79	570.04	529.78	495.35
14.00	DISCHG	467.06	443.49	422.12	402.80	386.02	372.22	360.60	349.68	339.40	330.10
15.00	DISCHG	322.18	315.08	307.64	300.05	292.68	285.99	279.57	272.53	265.07	257.68
16.00	DISCHG	250.95	244.78	238.58	232.62	227.24	222.71	219.02	215.99	213.58	211.83
17.00	DISCHG	210.68	209.71	208.36	206.60	204.47	202.21	199.68	196.51	192.95	189.34
18.00	DISCHG	185.99	182.72	179.08	175.20	171.38	167.89	164.82	162.09	159.80	158.08
19.00	DISCHG	156.91	156.19	155.78	155.58	155.49	155.47	155.20	154.21	152.60	150.50
20.00	DISCHG	148.20	145.89	143.63	141.62	140.06	138.96	137.96	136.50	134.58	132.25
21.00	DISCHG	129.80	127.70	126.45	126.09	126.69	127.98	129.37	130.28	130.44	129.76
22.00	DISCHG	128.48	126.82	124.96	123.18	121.75	120.71	119.73	118.29	116.34	113.98
23.00	DISCHG	111.48	109.33	108.03	107.65	108.24	109.51	110.90	111.77	111.92	111.22
24.00	DISCHG	109.82	106.45	99.20	88.70	75.94	62.56	49.47	36.95	25.92	17.23
25.00	DISCHG	11.05	6.98	4.40	2.79	1.77	1.13	.73	.47	.30	.19
26.00	DISCHG	.11	.06	.03	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9624 CFS-HRS= 5422.39 ACRE-FT= 448.11

SUBROUTINE REACH CROSS SECTION 102

NGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.97	2568.736	(NULL)
23.30	129.311	(NULL)
25.27	110.782	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9624 CFS-HRS= 5422.15 ACRE-FT= 448.09

SUBROUTINE RUNOFF CROSS SECTION 2

AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.24	588.021	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .6204 CFS-HRS= 2350.26 ACRE-FT= 194.23

SUBROUTINE ADDHYD CROSS SECTION 102

INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.95	3054.443	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.01	.03	.08	.19	.37	.62	.96	1.38	1.87	2.41
11.00	DISCHG	3.01	3.66	4.37	5.15	6.05	11.75	19.46	27.52	41.56	71.73
12.00	DISCHG	102.34	133.50	185.07	242.39	300.65	361.22	425.68	492.48	562.92	617.83
13.00	DISCHG	692.64	814.66	998.21	1254.69	1595.57	1988.83	2365.99	2691.19	2924.72	3041.55
14.00	DISCHG	3036.74	2923.14	2723.02	2473.45	2201.65	1935.17	1694.50	1487.33	1313.09	1169.78
15.00	DISCHG	1055.66	962.67	885.96	823.37	771.22	726.31	687.31	654.36	624.94	598.52
16.00	DISCHG	575.72	555.45	536.85	519.89	504.88	490.83	477.46	465.30	453.68	442.35
17.00	DISCHG	431.51	421.37	411.22	401.07	391.60	382.40	373.43	364.87	356.90	349.41
18.00	DISCHG	342.50	336.29	330.74	325.84	321.57	317.78	314.22	310.72	307.36	303.82
19.00	DISCHG	300.01	296.05	291.92	287.52	282.99	278.61	274.13	269.55	265.02	260.61
20.00	DISCHG	256.32	252.29	248.62	245.36	242.53	240.13	238.14	236.51	235.14	233.93
21.00	DISCHG	232.72	231.35	229.72	227.73	225.39	222.83	220.26	217.68	215.22	213.08
22.00	DISCHG	211.12	209.21	207.21	205.02	202.68	200.33	198.12	196.33	195.12	194.46
23.00	DISCHG	194.23	194.21	194.13	193.72	192.86	191.55	189.94	188.16	186.29	184.45
24.00	DISCHG	182.45	180.42	178.24	175.35	171.95	168.52	165.14	161.25	157.94	155.24
25.00	DISCHG	152.62	150.03	147.37	144.40	140.86	136.12	129.62	121.42	111.17	99.04
26.00	DISCHG	85.82	72.56	59.46	47.21	36.80	28.16	21.24	15.98	12.20	9.40
27.00	DISCHG	7.30	5.89	4.83	3.99	3.35	2.88	2.47	2.10	1.85	1.63
28.00	DISCHG	1.41	1.23	1.10	.97	.84	.75	.66	.57	.50	.44

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 29.00     D[redacted]HG          .38        .32        .29        .25        [redacted].21        .18        .15        .12        .10        [redacted]08

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .8249          CFS-HRS=      7772.41          ACRE-FT=      642.31


UBROUTINE RUNOFF     CROSS SECTION   5
          AREA=    5.52      INPUT RUNOFF CURVE=  81.0      TIME OF CONCENTRATION=  1.18

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             12.63                         1299.880                     (RUNOFF)
             21.79                           79.827                     (RUNOFF)
             23.78                           68.588                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .9051          CFS-HRS=      3224.54          ACRE-FT=      266.48


UBROUTINE REACH      CROSS SECTION 104
          LENGTH=  12500.00      INPUT COEFFICIENT=    .7800      INPUT ROUTINGS=    .00

          AVERAGE WATER VELOCITY=   6.027        AVERAGE ROUTING COEFF=  .7800        NUMBER OF ROUTINGS=  4.49


UBROUTINE RUNOFF     CROSS SECTION   4
          AREA=  13.11      INPUT RUNOFF CURVE=  81.0      TIME OF CONCENTRATION=  2.17

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             13.39                         2018.364                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .9049          CFS-HRS=      7656.17          ACRE-FT=      632.71


UBROUTINE ADDHYD     CROSS SECTION 104
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             13.29                         3236.489                     (NULL)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .9050          CFS-HRS=     10880.76          ACRE-FT=      899.19


UBROUTINE SAVMOV     CROSS SECTION 104
          INPUT HYDROGRAPH= 7      OUTPUT HYDROGRAPH= 5


UBROUTINE RUNOFF     CROSS SECTION   6
          AREA=    7.17      INPUT RUNOFF CURVE=  79.0      TIME OF CONCENTRATION=  1.80

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
             13.03                         1082.990                     (RUNOFF)

          TOTAL WATER, IN INCHES ON DRAINAGE AREA=     .8025          CFS-HRS=      3713.40          ACRE-FT=      306.87


UBROUTINE ADDHYD     CROSS SECTION 106
          INPUT HYDROGRAPHS= 5,6      OUTPUT HYDROGRAPH= 7

          PEAK TIMES                    PEAK DISCHARGES                PEAK ELEVATIONS
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13.25 4294.069 (NULL)

TIME		HYDROGRAPH, TZERO= .00				DELTA T= .10			DRAINAGE AREA= 25.80		
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.02	.05	.08	.11	.47	.90	1.33	1.96	4.14
11.00	DISCHG	6.42	8.84	14.45	23.53	33.07	54.66	111.29	183.81	290.96	411.40
12.00	DISCHG	610.94	854.99	1132.95	1449.84	1843.32	2274.09	2733.31	3150.24	3507.01	3842.34
13.00	DISCHG	4118.65	4236.09	4288.25	4286.29	4217.46	4053.10	3871.74	3676.56	3468.48	3241.08
14.00	DISCHG	3034.80	2836.71	2652.78	2488.51	2330.46	2177.80	2056.36	1940.95	1829.20	1729.15
15.00	DISCHG	1643.89	1561.00	1483.75	1414.45	1352.41	1294.37	1238.53	1189.53	1144.57	1100.99
16.00	DISCHG	1058.08	1022.13	987.25	952.77	920.77	892.90	865.31	838.47	814.75	792.65
17.00	DISCHG	771.13	750.68	733.22	716.61	700.92	685.92	673.13	660.94	648.90	637.44
18.00	DISCHG	627.12	616.74	606.28	595.95	585.64	575.25	564.85	554.63	544.37	534.32
19.00	DISCHG	524.65	515.90	507.52	499.40	492.10	485.73	479.71	473.90	468.97	464.39
20.00	DISCHG	459.93	455.54	451.37	447.14	442.79	438.30	433.71	429.04	424.30	419.60
21.00	DISCHG	414.95	410.36	405.80	401.44	397.31	393.14	389.10	385.88	382.80	379.93
22.00	DISCHG	377.54	375.53	373.68	371.80	369.78	367.63	365.21	362.60	359.73	356.65
23.00	DISCHG	353.45	350.19	346.82	343.41	339.92	336.61	333.49	330.40	327.46	324.61
24.00	DISCHG	321.98	319.26	315.70	310.77	305.36	298.44	289.76	278.82	265.72	251.69
25.00	DISCHG	235.34	217.51	199.18	180.64	162.98	145.64	128.80	114.02	101.01	88.62
26.00	DISCHG	77.66	68.54	60.54	53.31	46.49	41.28	36.69	32.38	28.33	25.33
27.00	DISCHG	22.53	19.80	17.47	15.63	13.83	12.10	10.78	9.61	8.47	7.40
28.00	DISCHG	6.63	5.87	5.17	4.53	4.04	3.58	3.14	2.76	2.46	2.16
29.00	DISCHG	1.86	1.65	1.45	1.25	1.07	.94	.81	.69	.58	.50

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8765 CFS-HRS= 14594.15 ACRE-FT= 1206.06

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.46	4268.429	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8766 CFS-HRS= 14596.08 ACRE-FT= 1206.22

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.82	992.732	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .7541 CFS-HRS= 2881.25 ACRE-FT= 238.11

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.36	4987.392	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8538 CFS-HRS= 17477.33 ACRE-FT= 1444.33

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.67	4945.839	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.00	.00	.00	.00	.00	.01	.03	.05	.11	.28
11.00	DISCHG	.56	.94	1.62	2.87	4.86	7.75	13.18	23.02	37.39	72.66
12.00	DISCHG	134.51	234.68	381.11	571.81	824.65	1138.04	1493.64	1886.78	2316.52	2764.19
13.00	DISCHG	3224.44	3659.02	4049.03	4388.76	4659.31	4839.86	4930.22	4942.12	4884.84	4762.28
14.00	DISCHG	4588.58	4383.52	4157.34	3919.27	3680.08	3447.61	3227.90	3022.85	2832.33	2655.49
15.00	DISCHG	2495.18	2350.36	2217.34	2095.96	1985.98	1885.65	1793.34	1708.57	1631.26	1560.15
16.00	DISCHG	1494.32	1433.63	1377.64	1325.23	1275.74	1229.73	1186.76	1146.22	1108.16	1072.79
17.00	DISCHG	1039.90	1008.97	980.24	953.61	928.66	905.34	883.80	863.91	845.35	827.96
18.00	DISCHG	811.81	796.76	782.42	768.70	755.59	742.90	730.44	718.09	705.80	693.57
19.00	DISCHG	681.40	669.35	657.50	645.85	634.68	624.11	614.17	604.84	596.16	588.21
20.00	DISCHG	580.90	574.05	567.68	561.75	556.08	550.60	545.27	540.01	534.75	529.42
21.00	DISCHG	524.00	518.46	512.83	507.17	501.53	495.97	490.61	485.46	480.62	476.05
22.00	DISCHG	471.73	467.77	464.15	460.77	457.64	454.80	452.16	449.61	447.01	444.28
23.00	DISCHG	441.33	438.13	434.67	430.97	427.06	423.11	419.13	415.19	411.36	407.67
24.00	DISCHG	404.16	400.81	397.39	393.86	390.15	385.78	380.62	373.92	365.65	355.80
25.00	DISCHG	344.07	330.33	314.77	297.55	278.86	258.93	238.12	217.22	196.62	176.70
26.00	DISCHG	157.68	139.95	123.81	109.10	95.90	84.25	74.06	65.08	57.11	50.20
27.00	DISCHG	44.25	39.01	34.37	30.33	26.82	23.69	20.92	18.50	16.36	14.43
28.00	DISCHG	12.74	11.27	9.95	8.77	7.74	6.84	6.03	5.31	4.69	4.14
29.00	DISCHG	3.65	3.22	2.84	2.51	2.20	1.93	1.69	1.47	1.28	1.08

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8538 CFS-HRS= 17477.65 ACRE-FT= 1444.35

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1

INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES 13.85 PEAK DISCHARGES 7829.531 PEAK ELEVATIONS 1587.12

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10.00	DISCHG	.01	.03	.08	.19	.37	.63	.99	1.43	1.98	2.69
11.00	DISCHG	3.57	4.61	5.99	8.02	10.91	19.50	32.64	50.53	78.95	144.39
12.00	DISCHG	236.85	368.18	566.18	814.20	1125.30	1499.26	1919.31	2379.26	2879.44	3382.02
13.00	DISCHG	3917.09	4473.67	5047.24	5643.45	6254.88	6828.69	7296.21	7633.31	7809.56	7803.83
14.00	DISCHG	7625.32	7306.66	6880.35	6392.72	5881.74	5382.78	4922.40	4510.19	4145.42	3825.27
15.00	DISCHG	3550.84	3313.03	3103.31	2919.33	2757.20	2611.96	2480.65	2362.93	2256.20	2158.67
16.00	DISCHG	2070.04	1989.08	1914.48	1845.11	1780.62	1720.56	1664.22	1611.52	1561.84	1515.14
17.00	DISCHG	1471.41	1430.34	1391.46	1354.68	1320.26	1287.74	1257.22	1228.79	1202.26	1177.37
18.00	DISCHG	1154.31	1133.04	1113.16	1094.54	1077.16	1060.68	1044.66	1028.80	1013.16	997.39
19.00	DISCHG	981.41	965.40	949.41	933.38	917.67	902.72	888.30	874.38	861.19	848.82
20.00	DISCHG	837.22	826.34	816.31	807.10	798.61	790.73	783.41	776.52	769.89	763.35
21.00	DISCHG	756.72	749.81	742.55	734.90	726.92	718.80	710.87	703.14	695.84	689.13
22.00	DISCHG	682.86	676.98	671.36	665.79	660.32	655.13	650.27	645.94	642.12	638.74
23.00	DISCHG	635.56	632.34	628.80	624.68	619.93	614.66	609.06	603.35	597.66	592.12
24.00	DISCHG	586.61	581.22	575.63	569.21	562.10	554.31	545.76	535.17	523.59	511.04
25.00	DISCHG	496.69	480.36	462.14	441.94	419.71	395.05	367.74	338.64	307.79	275.73
26.00	DISCHG	243.50	212.51	183.27	156.31	132.70	112.41	95.30	81.06	69.31	59.60
27.00	DISCHG	51.55	44.90	39.20	34.32	30.17	26.58	23.39	20.60	18.21	16.06
28.00	DISCHG	14.15	12.50	11.05	9.74	8.58	7.59	6.69	5.88	5.19	4.58
29.00	DISCHG	4.03	3.54	3.13	2.75	2.41	2.11	1.84	1.60	1.38	1.17

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .8447 CFS-HRS= 25250.07 ACRE-FT= 2086.67

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES 26.36 PEAK DISCHARGES 139.714 PEAK ELEVATIONS 1577.87

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

10.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.01	.02	.03
11.00	DISCHG	.04	.05	.07	.10	.13	.19	.28	.44	.67	1.09
12.00	DISCHG	1.79	2.90	4.62	7.16	10.72	15.54	21.81	29.69	39.31	50.75
13.00	DISCHG	64.08	79.37	92.46	94.36	96.47	98.80	101.32	103.98	106.55	108.62
14.00	DISCHG	110.66	112.63	114.51	116.26	117.88	119.24	120.16	120.99	121.76	122.46
15.00	DISCHG	123.11	123.71	124.27	124.80	125.29	125.75	126.19	126.61	127.01	127.39
16.00	DISCHG	127.75	128.09	128.43	128.74	129.05	129.34	129.63	129.90	130.15	130.37
17.00	DISCHG	130.58	130.79	131.00	131.19	131.38	131.57	131.75	131.92	132.10	132.26
18.00	DISCHG	132.43	132.59	132.74	132.90	133.05	133.19	133.34	133.48	133.62	133.76
19.00	DISCHG	133.90	134.03	134.16	134.29	134.41	134.53	134.65	134.77	134.89	135.00
20.00	DISCHG	135.11	135.22	135.33	135.44	135.55	135.65	135.75	135.85	135.95	136.05
21.00	DISCHG	136.15	136.25	136.35	136.44	136.54	136.63	136.72	136.81	136.90	136.99
22.00	DISCHG	137.07	137.16	137.24	137.33	137.41	137.49	137.58	137.66	137.74	137.82
23.00	DISCHG	137.89	137.97	138.05	138.13	138.21	138.28	138.36	138.43	138.50	138.57
24.00	DISCHG	138.65	138.72	138.79	138.85	138.92	138.99	139.05	139.12	139.18	139.24
25.00	DISCHG	139.30	139.35	139.40	139.45	139.50	139.54	139.58	139.61	139.64	139.67
26.00	DISCHG	139.69	139.70	139.71	139.71	139.71	139.71	139.71	139.70	139.69	139.68
27.00	DISCHG	139.66	139.65	139.63	139.62	139.60	139.58	139.56	139.54	139.53	139.51
28.00	DISCHG	139.49	139.47	139.45	139.43	139.41	139.38	139.36	139.34	139.32	139.30
29.00	DISCHG	139.28	139.26	139.24	139.21	139.19	139.17	139.15	139.13	139.11	139.08

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0757 CFS-HRS= 2261.74 ACRE-FT= 186.91

ENDCMP

EXECUTIVE [redacted]TROL CARD 159 OPERATION COMPUT, FROM [redacted]CTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/ 1[redacted]
ST[redacted]ING TIME= .00 RAIN DEPTH= 2.99 RAIN D[redacted]TION= 1.00 RAIN TABLE NO.= 2 SOIL CONDI[redacted]= 2
AL NATE NO.= 3 STORM NO.=11

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	1173.900	(RUNOFF)
16.95	51.817	(RUNOFF)
19.45	38.529	(RUNOFF)
20.38	33.879	(RUNOFF)
21.50	33.827	(RUNOFF)
22.35	29.367	(RUNOFF)
23.49	29.245	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2404 CFS-HRS= 1368.83 ACRE-FT= 113.12

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.03	788.378	(RUNOFF)
16.95	34.175	(RUNOFF)
19.45	25.466	(RUNOFF)
20.45	22.437	(RUNOFF)
21.47	22.457	(RUNOFF)
22.45	19.480	(RUNOFF)
23.47	19.446	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1804 CFS-HRS= 883.66 ACRE-FT= 73.03

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.09	1838.334	(NULL)
16.96	85.900	(NULL)
19.46	63.915	(NULL)
21.54	55.878	(NULL)
22.45	48.653	(NULL)
23.53	48.276	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2158 CFS-HRS= 2251.94 ACRE-FT= 186.10

SUBROUTINE SAVMOV CROSS SECTION 14

[redacted]

[redacted] AH #3

T HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.21	1277.777	(RUNOFF)
21.64	45.194	(RUNOFF)
23.64	38.831	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3684 CFS-HRS= 1978.25 ACRE-FT= 163.48

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.12	3039.777	(NULL)
19.45	116.978	(NULL)
21.57	100.931	(NULL)
23.57	86.945	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2827 CFS-HRS= 4230.19 ACRE-FT= 349.58

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.99	1163.383	(RUNOFF)
16.95	44.461	(RUNOFF)
19.43	32.795	(RUNOFF)
20.40	28.844	(RUNOFF)
21.46	29.022	(RUNOFF)
22.45	25.069	(RUNOFF)
23.46	25.077	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.4384 CFS-HRS= 1253.20 ACRE-FT= 103.56

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.22	3279.689	(NULL)
19.45	149.734	(NULL)
21.62	127.067	(NULL)
23.62	109.133	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3151 CFS-HRS= 5482.78 ACRE-FT= 453.10

SUBROUTINE REACH CROSS SECTION 112
LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.11	1145.882	(RUNOFF)
19.41	37.143	(RUNOFF)
21.57	32.025	(RUNOFF)
23.57	27.490	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.6511 CFS-HRS= 1523.76 ACRE-FT= 125.92

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.31	3994.121	(NULL)
21.74	157.340	(NULL)
23.74	134.882	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3756 CFS-HRS= 7004.51 ACRE-FT= 578.85

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.06	476.121	(RUNOFF)
16.96	20.174	(RUNOFF)
19.45	14.954	(RUNOFF)
20.37	13.138	(RUNOFF)
21.50	13.079	(RUNOFF)
23.50	11.293	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3693 CFS-HRS= 556.71 ACRE-FT= 46.01

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.37	4123.370	(NULL)
21.78	168.938	(NULL)

3.78 144.664 (NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3752 CFS-HRS= 7561.37 ACRE-FT= 624.87

SUBROUTINE SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	144.719	(RUNOFF)
16.95	6.192	(RUNOFF)
19.45	4.610	(RUNOFF)
20.45	4.066	(RUNOFF)
21.46	4.075	(RUNOFF)
22.45	3.527	(RUNOFF)
23.46	3.532	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1805 CFS-HRS= 159.99 ACRE-FT= 13.22

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	4166.890	(NULL)
21.77	172.538	(NULL)
23.77	147.712	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.04	.13	.33
8.00	DISCHG	.63	1.01	1.47	2.01	2.62	3.26	3.90	4.58	5.29	6.07
9.00	DISCHG	6.94	8.00	9.38	11.13	13.14	15.26	17.47	19.95	22.87	26.17
10.00	DISCHG	29.66	33.45	38.20	44.28	51.47	59.21	67.73	78.29	91.35	106.27
11.00	DISCHG	121.73	138.92	161.57	190.34	223.80	261.32	359.04	632.45	1117.40	1793.84
12.00	DISCHG	2581.07	3320.77	3845.93	4128.39	4153.75	3985.89	3669.63	3216.23	2707.14	2236.65
13.00	DISCHG	1856.86	1566.68	1339.87	1161.45	1023.19	919.31	840.46	775.06	719.06	671.42
14.00	DISCHG	632.29	599.65	570.11	543.53	520.51	501.58	485.58	470.55	456.46	443.74
15.00	DISCHG	432.89	423.12	412.92	402.57	392.54	383.42	374.66	365.05	354.95	344.96
16.00	DISCHG	335.86	327.47	319.04	310.96	303.67	297.54	292.52	288.36	285.04	282.61
17.00	DISCHG	281.00	279.62	277.76	275.37	272.49	269.43	265.99	261.69	256.90	252.05
18.00	DISCHG	247.54	243.14	238.22	233.03	227.91	223.24	219.10	215.41	212.32	209.97
19.00	DISCHG	208.37	207.38	206.80	206.49	206.34	206.28	205.88	204.55	202.40	199.62
20.00	DISCHG	196.54	193.45	190.40	187.70	185.58	184.09	182.73	180.79	178.23	175.15
21.00	DISCHG	171.90	169.10	167.39	166.86	167.59	169.24	171.07	172.26	172.49	171.62
22.00	DISCHG	169.92	167.71	165.22	162.83	160.90	159.50	158.18	156.26	153.69	150.58
23.00	DISCHG	147.28	144.43	142.66	142.11	142.83	144.47	146.29	147.44	147.66	146.77

24.00	DISCHG	144.93	140.47	130.91	117.15	100.44	82.85	65.55	48.95	34.32	22.79
25.00	DISCHG	14.61	9.22	5.81	3.68	2.34	1.49	.96	.62	.40	.25
26.00	DISCHG	.15	.09	.04	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3705 CFS-HRS= 7721.36 ACRE-FT= 638.09

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	4166.890	(NULL)
21.77	172.538	(NULL)
23.77	147.712	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.04	.13	.33
8.00	DISCHG	.63	1.01	1.47	2.01	2.62	3.26	3.90	4.58	5.29	6.07
9.00	DISCHG	6.94	8.00	9.38	11.13	13.14	15.26	17.47	19.95	22.87	26.17
10.00	DISCHG	29.66	33.45	38.20	44.28	51.47	59.21	67.73	78.29	91.35	106.27
11.00	DISCHG	121.73	138.92	161.57	190.34	223.80	261.32	359.04	632.45	1117.40	1793.84
12.00	DISCHG	2581.07	3320.77	3845.93	4128.39	4153.75	3985.89	3669.63	3216.23	2707.14	2236.65
13.00	DISCHG	1856.86	1566.68	1339.87	1161.45	1023.19	919.31	840.46	775.06	719.06	671.42
14.00	DISCHG	632.29	599.65	570.11	543.53	520.51	501.58	485.58	470.55	456.46	443.74
15.00	DISCHG	432.89	423.12	412.92	402.57	392.54	383.42	374.66	365.05	354.95	344.96
16.00	DISCHG	335.86	327.47	319.04	310.96	303.67	297.54	292.52	288.36	285.04	282.61
17.00	DISCHG	281.00	279.62	277.76	275.37	272.49	269.43	265.99	261.69	256.90	252.05
18.00	DISCHG	247.54	243.14	238.22	233.03	227.91	223.24	219.10	215.41	212.32	209.97
19.00	DISCHG	208.37	207.38	206.80	206.49	206.34	206.28	205.88	204.55	202.40	199.62
20.00	DISCHG	196.54	193.45	190.40	187.70	185.58	184.09	182.73	180.79	178.23	175.15
21.00	DISCHG	171.90	169.10	167.39	166.86	167.59	169.24	171.07	172.26	172.49	171.62
22.00	DISCHG	169.92	167.71	165.22	162.83	160.90	159.50	158.18	156.26	153.69	150.58
23.00	DISCHG	147.28	144.43	142.66	142.11	142.83	144.47	146.29	147.44	147.66	146.77
24.00	DISCHG	144.93	140.47	130.91	117.15	100.44	82.85	65.55	48.95	34.32	22.79
25.00	DISCHG	14.61	9.22	5.81	3.68	2.34	1.49	.96	.62	.40	.25
26.00	DISCHG	.15	.09	.04	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3705 CFS-HRS= 7721.36 ACRE-FT= 638.09

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

13.96	3757.152	(NULL)
23.29	171.011	(NULL)
25.27	146.170	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3704 CFS-HRS= 7721.00 ACRE-FT= 638.06

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.87 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.22	965.701	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .9525 CFS-HRS= 3608.29 ACRE-FT= 298.19

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.93	4524.750	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.01	.03	.08	.18	.34	.58	.90	1.29	1.76	2.29
10.00	DISCHG	2.87	3.49	4.15	4.86	5.64	6.54	7.61	8.88	10.45	12.28
11.00	DISCHG	14.31	16.69	19.85	23.28	27.03	40.89	58.96	77.73	106.94	164.08
12.00	DISCHG	222.21	281.58	372.97	473.58	575.83	679.43	784.42	892.91	1006.76	1091.46
13.00	DISCHG	1205.80	1390.69	1663.30	2036.26	2526.26	3085.79	3614.58	4063.61	4376.11	4517.12
14.00	DISCHG	4480.29	4285.01	3966.32	3582.46	3171.54	2773.28	2417.24	2113.29	1858.98	1650.66
15.00	DISCHG	1485.87	1351.81	1241.27	1151.43	1076.74	1012.33	956.37	909.38	867.34	829.49
16.00	DISCHG	796.95	768.04	741.44	717.17	695.80	675.73	656.62	639.33	622.84	606.76
17.00	DISCHG	591.41	577.14	562.87	548.62	535.39	522.56	510.03	498.09	486.98	476.51
18.00	DISCHG	466.82	458.11	450.28	443.33	437.25	431.86	426.81	421.82	417.11	412.15
19.00	DISCHG	406.84	401.35	395.64	389.59	383.35	377.35	371.22	364.95	358.78	352.76
20.00	DISCHG	346.92	341.41	336.40	331.91	328.01	324.68	321.91	319.61	317.67	315.93
21.00	DISCHG	314.21	312.27	310.01	307.27	304.06	300.58	297.08	293.56	290.19	287.26
22.00	DISCHG	284.59	281.98	279.25	276.29	273.12	269.94	266.94	264.48	262.78	261.82
23.00	DISCHG	261.41	261.30	261.12	260.51	259.33	257.53	255.33	252.91	250.38	247.87
24.00	DISCHG	245.14	242.38	239.43	235.52	230.91	226.26	221.66	216.32	211.75	207.97
25.00	DISCHG	204.27	200.62	196.90	192.76	187.90	181.46	172.70	161.76	148.12	132.90
26.00	DISCHG	114.46	96.87	79.46	63.16	49.31	37.81	28.58	21.55	16.51	12.76
27.00	DISCHG	9.95	8.05	6.63	5.49	4.61	3.98	3.42	2.91	2.57	2.25
28.00	DISCHG	1.96	1.71	1.52	1.34	1.16	1.04	.91	.79	.69	.61
29.00	DISCHG	.53	.45	.39	.34	.29	.25	.21	.17	.14	.11

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2024 CFS-HRS= 11329.30 ACRE-FT= 936.25

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.61	1930.118	(RUNOFF)
21.79	106.462	(RUNOFF)
23.78	81.128	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3033 CFS-HRS= 4642.76 ACRE-FT= 383.68

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.37	2987.618	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3029 CFS-HRS= 11023.54 ACRE-FT= 910.99

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.25	4802.110	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.3030 CFS-HRS= 15666.37 ACRE-FT= 1294.67

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.01	1661.935	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1788 CFS-HRS= 5454.51 ACRE-FT= 450.76

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.20	6418.348	(NULL)

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.09	.19	.28	.50	1.04	1.61
10.00	DISCHG	2.26	3.61	5.64	8.08	10.72	15.57	21.89	28.57	36.09	49.09
11.00	DISCHG	62.55	76.52	97.33	124.37	152.13	200.27	301.50	426.53	604.15	802.02
12.00	DISCHG	1114.59	1492.41	1920.52	2404.96	2991.36	3627.65	4303.17	4904.26	5404.47	5869.08
13.00	DISCHG	6243.13	6379.05	6418.35	6379.18	6244.05	5973.02	5680.39	5372.63	5049.11	4701.37
14.00	DISCHG	4387.60	4086.41	3809.41	3564.35	3328.62	3100.94	2921.35	2750.83	2585.71	2438.30
15.00	DISCHG	2313.11	2191.38	2078.18	1976.88	1886.44	1801.98	1720.76	1649.72	1584.70	1521.76
16.00	DISCHG	1459.79	1408.25	1358.33	1309.00	1263.34	1223.78	1184.62	1146.54	1112.97	1081.76
17.00	DISCHG	1051.34	1022.45	997.82	974.38	952.23	931.04	913.00	895.86	878.92	862.83
18.00	DISCHG	848.41	833.91	819.31	804.95	790.63	776.21	761.78	747.67	733.50	719.62
19.00	DISCHG	706.31	694.33	682.85	671.74	661.75	653.02	644.78	636.81	630.04	623.76
20.00	DISCHG	617.63	611.59	605.87	600.07	594.11	587.96	581.70	575.32	568.85	562.45
21.00	DISCHG	556.11	549.87	543.65	537.72	532.10	526.43	520.93	516.54	512.34	508.41
22.00	DISCHG	505.13	502.37	499.81	497.21	494.44	491.49	488.18	484.62	480.72	476.53
23.00	DISCHG	472.19	467.76	463.20	458.58	453.86	449.38	445.16	440.98	437.00	433.15
24.00	DISCHG	429.58	425.90	421.09	414.47	407.20	397.91	386.29	371.67	354.15	335.42
25.00	DISCHG	313.59	289.81	265.36	240.64	217.11	194.01	171.56	151.88	134.54	118.03
26.00	DISCHG	103.44	91.28	80.63	70.99	61.92	54.98	48.86	43.12	37.73	33.73
27.00	DISCHG	30.01	26.36	23.26	20.81	18.41	16.10	14.35	12.79	11.27	9.85
28.00	DISCHG	8.82	7.82	6.88	6.03	5.37	4.76	4.17	3.67	3.27	2.87
29.00	DISCHG	2.48	2.19	1.92	1.66	1.42	1.24	1.07	.91	.78	.67

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2685 CFS-HRS= 21120.88 ACRE-FT= 1745.43

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.42	6378.744	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2686 CFS-HRS= 21123.67 ACRE-FT= 1745.66

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.80	1543.149	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.1194 CFS-HRS= 4276.81 ACRE-FT= 353.44

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.32	7495.705	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2408 CFS-HRS= 25400.48 ACRE-FT= 2099.10

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.63	7429.405	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.01	.05	.11
10.00	DISCHG	.20	.37	.67	1.11	1.73	2.70	4.17	6.25	9.03	13.08
11.00	DISCHG	18.67	25.66	34.73	46.47	61.32	79.20	102.88	135.59	176.97	252.75
12.00	DISCHG	370.90	547.90	795.13	1108.44	1510.79	1999.95	2546.48	3142.21	3784.43	4444.24
13.00	DISCHG	5114.77	5738.44	6286.69	6753.16	7112.55	7335.53	7424.96	7399.48	7274.32	7056.61
14.00	DISCHG	6767.68	6437.31	6080.35	5710.31	5342.39	4987.27	4653.77	4344.48	4058.58	3794.19
15.00	DISCHG	3555.38	3340.34	3143.31	2963.91	2801.73	2654.07	2518.47	2394.19	2281.12	2177.34
16.00	DISCHG	2081.45	1993.22	1912.00	1836.12	1764.61	1698.30	1636.56	1578.47	1524.07	1473.66
17.00	DISCHG	1426.87	1382.96	1342.22	1304.52	1269.23	1236.25	1205.81	1177.72	1151.51	1126.95
18.00	DISCHG	1104.16	1082.93	1062.75	1043.47	1025.07	1007.32	989.90	972.68	955.57	938.56
19.00	DISCHG	921.66	904.96	888.55	872.44	857.01	842.44	828.77	815.95	804.04	793.12
20.00	DISCHG	783.07	773.66	764.91	756.74	748.94	741.39	734.05	726.82	719.58	712.26
21.00	DISCHG	704.82	697.23	689.52	681.78	674.07	666.48	659.16	652.12	645.52	639.29
22.00	DISCHG	633.39	627.97	623.02	618.38	614.10	610.18	606.54	603.02	599.43	595.68
23.00	DISCHG	591.63	587.24	582.52	577.46	572.14	566.76	561.35	555.99	550.80	545.79
24.00	DISCHG	541.02	536.47	531.84	527.05	522.01	516.09	509.10	500.03	488.87	475.58
25.00	DISCHG	459.79	441.31	420.41	397.30	372.25	345.57	317.73	289.79	262.27	235.67
26.00	DISCHG	210.27	186.61	165.08	145.45	127.84	112.31	98.72	86.75	76.12	66.91
27.00	DISCHG	58.97	51.99	45.80	40.42	35.74	31.56	27.87	24.64	21.79	19.22
28.00	DISCHG	16.97	15.01	13.25	11.68	10.30	9.10	8.03	7.07	6.24	5.51
29.00	DISCHG	4.86	4.28	3.78	3.33	2.92	2.56	2.25	1.96	1.70	1.44

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2408 CFS-HRS= 25400.95 ACRE-FT= 2099.13

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.82	11656.230	1588.23

TIME HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.01	.03	.08	.18	.34	.58	.90	1.30	1.81	2.40
10.00	DISCHG	3.07	3.86	4.83	5.97	7.37	9.24	11.78	15.14	19.48	25.35
11.00	DISCHG	32.98	42.35	54.58	69.75	88.34	120.09	161.84	213.32	283.91	416.83
12.00	DISCHG	593.11	829.48	1168.11	1582.02	2086.62	2679.38	3330.91	4035.12	4791.19	5535.70
13.00	DISCHG	6320.57	7129.13	7949.98	8789.42	9638.81	10421.32	11039.53	11463.08	11650.44	11573.73
14.00	DISCHG	11247.97	10722.32	10046.67	9292.78	8513.93	7760.55	7071.00	6457.77	5917.56	5444.85
15.00	DISCHG	5041.26	4692.15	4384.58	4115.34	3878.47	3666.40	3474.84	3303.57	3148.46	3006.83
16.00	DISCHG	2878.40	2761.26	2653.44	2553.29	2460.40	2374.03	2293.18	2217.80	2146.91	2080.41
17.00	DISCHG	2018.28	1960.10	1905.10	1853.14	1804.62	1758.81	1715.84	1675.82	1638.49	1603.46
18.00	DISCHG	1570.98	1541.04	1513.03	1486.80	1462.33	1439.18	1416.71	1394.50	1372.68	1350.72
19.00	DISCHG	1328.50	1306.31	1284.19	1262.03	1240.36	1219.79	1199.98	1180.90	1162.82	1145.88
20.00	DISCHG	1129.99	1115.07	1101.30	1088.65	1076.95	1066.08	1055.96	1046.43	1037.25	1028.20
21.00	DISCHG	1019.04	1009.51	999.53	989.05	978.14	967.06	956.24	945.68	935.71	926.55
22.00	DISCHG	917.97	909.95	902.27	894.67	887.22	880.12	873.47	867.50	862.21	857.49
23.00	DISCHG	853.04	848.54	843.64	837.98	831.47	824.28	816.67	808.91	801.18	793.66
24.00	DISCHG	786.17	778.85	771.26	762.56	752.92	742.35	730.76	716.36	700.61	683.54
25.00	DISCHG	664.06	641.93	617.31	590.07	560.16	527.04	490.43	451.55	410.39	367.67
26.00	DISCHG	324.74	283.48	244.54	208.61	177.15	150.12	127.30	108.30	92.63	79.68
27.00	DISCHG	68.92	60.04	52.43	45.90	40.35	35.54	31.28	27.55	24.35	21.48
28.00	DISCHG	18.93	16.71	14.78	13.02	11.46	10.14	8.94	7.86	6.93	6.12
29.00	DISCHG	5.38	4.73	4.18	3.67	3.21	2.81	2.46	2.13	1.84	1.55

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.2287 CFS-HRS= 36730.24 ACRE-FT= 3035.39

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
26.39	151.842	1580.51

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9.00	DISCHG	.00	.00	.00	.00	.00	.00	.01	.01	.02	.02
10.00	DISCHG	.03	.05	.06	.08	.11	.14	.18	.22	.29	.37
11.00	DISCHG	.48	.61	.79	1.02	1.31	1.69	2.20	2.89	3.80	5.08
12.00	DISCHG	6.93	9.54	13.20	18.24	24.97	33.70	44.70	58.17	74.29	92.11
13.00	DISCHG	94.22	96.62	99.31	102.30	105.59	108.36	111.21	114.21	117.28	119.92
14.00	DISCHG	121.98	123.95	125.82	127.55	129.15	130.53	131.68	132.73	133.68	134.56
15.00	DISCHG	135.37	136.12	136.81	137.46	138.07	138.65	139.19	139.70	140.19	140.66

[redacted]	DISCHG	141.07	141.35	141.62	[redacted]	142.14	142.38	142.61	142.84	143[redacted]	143.26
[redacted]	DISCHG	143.46	143.66	143.85	[redacted]	144.21	144.39	144.56	144.72	14[redacted]	145.04
18.00	DISCHG	145.19	145.34	145.49	145.63	145.77	145.91	146.05	146.18	146.31	146.44
19.00	DISCHG	146.57	146.69	146.82	146.94	147.05	147.17	147.28	147.39	147.50	147.61
20.00	DISCHG	147.71	147.82	147.92	148.02	148.12	148.22	148.31	148.41	148.50	148.60
21.00	DISCHG	148.69	148.78	148.87	148.96	149.05	149.14	149.23	149.31	149.40	149.48
22.00	DISCHG	149.56	149.64	149.72	149.80	149.88	149.96	150.03	150.10	150.17	150.23
23.00	DISCHG	150.30	150.36	150.43	150.49	150.55	150.62	150.68	150.74	150.80	150.86
24.00	DISCHG	150.92	150.98	151.04	151.10	151.15	151.21	151.26	151.32	151.37	151.42
25.00	DISCHG	151.47	151.51	151.56	151.60	151.64	151.67	151.71	151.74	151.76	151.79
26.00	DISCHG	151.80	151.82	151.83	151.84	151.84	151.84	151.84	151.84	151.83	151.82
27.00	DISCHG	151.82	151.81	151.80	151.79	151.78	151.77	151.76	151.75	151.74	151.72
28.00	DISCHG	151.71	151.70	151.69	151.67	151.66	151.65	151.64	151.62	151.61	151.59
29.00	DISCHG	151.58	151.57	151.55	151.54	151.53	151.51	151.50	151.48	151.47	151.46

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .0834 CFS-HRS= 2493.35 ACRE-FT= 206.05

ENDCMP

EXECUTIVE CONTROL CARD 161 OPERATION COMPUT. FR XSECTN/STRUCT 15/ 0 TO XSECTN/STRUCT 0/
STARTING TIME= .00 RAIN DEPTH= 3.85 RAIN DURATION= 1.00 RAIN TABLE NO.= 2 SOIL CONDITION= 2
ALTERNATE NO.= 3 STORM NO.=12

SUBROUTINE RUNOFF CROSS SECTION 15
AREA= 1.71 INPUT RUNOFF CURVE= 80.0 TIME OF CONCENTRATION= .30

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	1803.168	(RUNOFF)
16.95	73.730	(RUNOFF)
19.45	54.510	(RUNOFF)
20.36	47.855	(RUNOFF)
21.50	47.698	(RUNOFF)
23.49	41.130	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9150 CFS-HRS= 2113.40 ACRE-FT= 174.65

SUBROUTINE REACH CROSS SECTION 114
LENGTH= 2700.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .88

SUBROUTINE RUNOFF CROSS SECTION 14
AREA= 1.16 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.02	1238.309	(RUNOFF)
16.95	48.992	(RUNOFF)
19.45	36.287	(RUNOFF)
20.41	31.823	(RUNOFF)
21.47	31.888	(RUNOFF)
22.45	27.620	(RUNOFF)
23.47	27.536	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8414 CFS-HRS= 1378.53 ACRE-FT= 113.92

SUBROUTINE ADDHYD CROSS SECTION 14
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.08	2887.209	(NULL)
16.96	122.612	(NULL)
19.46	90.695	(NULL)
21.54	79.015	(NULL)
23.53	68.082	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8848 CFS-HRS= 3491.04 ACRE-FT= 288.50

SUBROUTINE SAVMOV CROSS SECTION 14
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTIN. SAVMOV CROSS SECTION 111
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 17
AREA= .21 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= .23

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.00	227.056	(RUNOFF)
16.95	8.876	(RUNOFF)
19.45	6.569	(RUNOFF)
20.45	5.783	(RUNOFF)
21.46	5.786	(RUNOFF)
22.45	5.000	(RUNOFF)
23.46	5.001	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8414 CFS-HRS= 249.56 ACRE-FT= 20.62

SUBROUTINE ADDHYD CROSS SECTION 117
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.35	6431.900	(NULL)
21.77	240.069	(NULL)
23.77	205.050	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.01	.07	.23	.50	.86	1.29
7.00	DISCHG	1.76	2.26	2.84	3.54	4.31	5.11	5.89	6.71	7.67	8.82
8.00	DISCHG	10.16	11.66	13.44	15.64	18.18	20.90	23.70	26.72	30.07	33.75
9.00	DISCHG	37.63	41.81	46.72	52.56	59.10	65.88	72.84	80.41	88.71	97.49
10.00	DISCHG	106.31	115.61	126.73	139.92	154.58	169.59	185.68	205.35	228.93	255.17
11.00	DISCHG	281.91	311.81	351.48	400.73	456.99	519.60	684.75	1132.47	1894.38	2929.69
12.00	DISCHG	4112.24	5209.61	5982.82	6388.77	6397.92	6099.70	5568.03	4836.31	4036.91	3310.74
13.00	DISCHG	2730.38	2289.79	1947.97	1681.22	1475.91	1322.18	1205.65	1109.35	1027.36	957.94
14.00	DISCHG	900.98	853.41	810.45	771.95	738.72	711.37	688.20	666.44	646.10	627.79
15.00	DISCHG	612.14	598.01	583.29	568.42	554.07	541.00	528.40	514.62	500.20	486.00
16.00	DISCHG	473.04	461.04	448.99	437.46	427.08	418.32	411.12	405.13	400.33	396.79
17.00	DISCHG	394.40	392.36	389.64	386.22	382.14	377.77	372.85	366.73	359.94	353.08
18.00	DISCHG	346.70	340.45	333.48	326.15	318.93	312.35	306.49	301.25	296.83	293.48
19.00	DISCHG	291.18	289.73	288.87	288.38	288.13	287.99	287.39	285.49	282.48	278.58
20.00	DISCHG	274.27	269.90	265.59	261.75	258.75	256.62	254.68	251.94	248.37	244.08
21.00	DISCHG	239.54	235.60	233.16	232.32	233.26	235.49	238.01	239.67	240.01	238.82
22.00	DISCHG	236.46	233.36	229.84	226.46	223.73	221.75	219.89	217.20	213.63	209.32
23.00	DISCHG	204.73	200.74	198.23	197.38	198.31	200.54	203.04	204.65	204.99	203.79
24.00	DISCHG	201.24	195.03	181.78	162.79	139.76	115.43	91.38	68.23	47.80	31.73
25.00	DISCHG	20.32	12.81	8.06	5.10	3.24	2.07	1.33	.86	.55	.34
26.00	DISCHG	.21	.12	.06	.00						

SUBROUTINE RUNOFF CROSS SECTION 16
AREA= 2.24 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .59

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	1961.911	(RUNOFF)
21.64	62.877	(RUNOFF)
23.64	53.900	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0713 CFS-HRS= 2994.34 ACRE-FT= 247.45

SUBROUTINE ADDHYD CROSS SECTION 114
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.11	4739.050	(NULL)
19.45	164.759	(NULL)
21.57	141.697	(NULL)
23.57	121.757	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9666 CFS-HRS= 6485.38 ACRE-FT= 535.95

SUBROUTINE REACH CROSS SECTION 113
LENGTH= 4300.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.41

SUBROUTINE RUNOFF CROSS SECTION 13
AREA= 1.35 INPUT RUNOFF CURVE= 83.0 TIME OF CONCENTRATION= .21

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
11.99	1735.326	(RUNOFF)
16.95	61.895	(RUNOFF)
19.41	45.448	(RUNOFF)
20.39	39.916	(RUNOFF)
21.46	40.109	(RUNOFF)
22.45	34.607	(RUNOFF)
23.46	34.584	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.1565 CFS-HRS= 1878.82 ACRE-FT= 155.27

SUBROUTINE ADDHYD CROSS SECTION 13
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.19	5131.787	(NULL)
21.62	177.809	(NULL)
23.62	152.342	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0060 CFS-HRS= 8363.18 ACRE-FT= 691.13

SUBROUTINE REACH CROSS SECTION 112

LENGTH= 4600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 1.50

SUBROUTINE RUNOFF CROSS SECTION 12
AREA= 1.43 INPUT RUNOFF CURVE= 86.0 TIME OF CONCENTRATION= .45

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.10	1670.289	(RUNOFF)
19.38	50.515	(RUNOFF)
21.57	43.454	(RUNOFF)
23.57	37.238	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.4068 CFS-HRS= 2221.15 ACRE-FT= 183.56

SUBROUTINE ADDHYD CROSS SECTION 12
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.31	6174.803	(NULL)
21.74	218.941	(NULL)
23.74	187.176	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0780 CFS-HRS= 10581.25 ACRE-FT= 874.43

SUBROUTINE REACH CROSS SECTION 111
LENGTH= 1800.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= .59

SUBROUTINE RUNOFF CROSS SECTION 11
AREA= .63 INPUT RUNOFF CURVE= 82.0 TIME OF CONCENTRATION= .31

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.05	714.206	(RUNOFF)
16.95	28.289	(RUNOFF)
19.45	20.863	(RUNOFF)
21.50	18.195	(RUNOFF)
23.50	15.673	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0727 CFS-HRS= 842.71 ACRE-FT= 69.64

SUBROUTINE ADDHYD CROSS SECTION 111
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.36	6365.173	(NULL)
21.78	234.962	(NULL)
23.78	200.739	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0777 CFS-HRS= 11424.20 ACRE-FT= 944.10

3		02	31.72	5	2	.10	.00	4.59	6.00	21174.85	4.18	.00	2.80	667.
3		-1	46.33	5	2	.10	.00	4.59	6.00	33478.38	4.33	1593.07	2.79	722.
3	4	-1	46.33	5	2	.10	.00	4.59	6.00	6384.68	6.96	1586.69	1.17	137.91
3	5	15	1.72	5	2	.10	.00	8.73	6.00	8278.27	2.38	.00	6.66	4912.95
3	5	14	1.16	5	2	.10	.00	8.73	6.00	5961.37	2.34	.00	6.53	5139.11
3	5	14	2.88	5	2	.10	.00	8.73	6.00	12856.54	2.44	.00	6.61	4464.08
3	5	16	2.24	5	2	.10	.00	8.73	6.00	8115.48	2.60	.00	6.91	3622.98
3	5	114	5.12	5	2	.10	.00	8.73	6.00	19959.65	2.50	.00	6.74	3898.37
3	5	13	1.35	5	2	.10	.00	8.73	6.00	8176.01	2.31	.00	7.03	6056.30
3	5	13	6.47	5	2	.10	.00	8.73	6.00	22548.61	2.62	.00	6.80	3485.10
3	5	12	1.43	5	2	.10	.00	8.73	6.00	6499.26	2.48	.00	7.39	4544.94
3	5	12	7.90	5	2	.10	.00	8.73	6.00	25682.54	2.77	.00	6.91	3250.95
3	5	11	.63	5	2	.10	.00	8.73	6.00	3140.83	2.39	.00	6.91	4985.45
3	5	111	8.53	5	2	.10	.00	8.73	6.00	26481.37	2.83	.00	6.91	3104.50
3	5	17	.21	5	2	.10	.00	8.73	6.00	1122.19	2.33	.00	6.54	5343.77
3	5	117	8.74	5	2	.10	.00	8.73	6.00	26795.48	2.83	.00	6.90	3065.84
3	5	-7	8.74	5	2	.10	.00	8.73	6.00	26795.48	2.83	.00	6.90	3065.84
3	5	102	8.74	5	2	.10	.00	8.73	6.00	24073.64	4.40	.00	6.90	2754.42
3	5	2	5.87	5	2	.10	.00	8.73	6.00	8618.80	3.79	.00	6.18	1468.28
3	5	102	14.61	5	2	.10	.00	8.73	6.00	31142.07	4.37	.00	6.61	2131.56
3	5	5	5.52	5	2	.10	.00	8.73	6.00	12754.35	3.04	.00	6.78	2310.57
3	5	4	13.11	5	2	.10	.00	8.73	6.00	20075.05	3.74	.00	6.79	1531.28
3	5	104	18.63	5	2	.10	.00	8.73	6.00	32317.87	3.70	.00	6.79	1734.72
3	5	6	7.17	5	2	.10	.00	8.73	6.00	11960.85	3.45	.00	6.55	1668.18
3	5	106	25.80	5	2	.10	.00	8.73	6.00	44178.17	3.69	.00	6.72	1712.33
3	5	3	25.80	5	2	.10	.00	8.73	6.00	43724.01	3.89	.00	6.72	1694.73
3	5	3	5.92	5	2	.10	.00	8.73	6.00	11340.29	3.23	.00	6.43	1915.59
3	5	3	31.72	5	2	.10	.00	8.73	6.00	52256.11	3.81	.00	6.66	1647.42
3	5	102	31.72	5	2	.10	.00	8.73	6.00	51884.33	4.10	.00	6.66	1635.70
3	5	-1	46.33	5	2	.10	.00	8.73	6.00	81453.01	4.27	1603.72	6.65	1758.11
3	5	-1	46.33	5	2	.10	.00	8.73	6.00	34958.28	5.64	1593.40	5.02	754.55
3	8	15	1.71	6	2	.10	.00	5.78	24.00	761.01	9.10	.00	3.58	445.03
3	8	14	1.16	6	2	.10	.00	5.78	24.00	500.76	9.07	.00	3.48	431.69
3	8	14	2.87	6	2	.10	.00	5.78	24.00	1249.81	9.14	.00	3.54	435.47
3	8	16	2.24	6	2	.10	.00	5.78	24.00	1028.39	9.55	.00	3.78	459.10
3	8	114	5.11	6	2	.10	.00	5.78	24.00	2266.42	9.22	.00	3.64	443.53
3	8	13	1.35	6	2	.10	.00	5.78	24.00	670.06	9.02	.00	3.88	496.34
3	8	13	6.46	6	2	.10	.00	5.78	24.00	2899.44	9.50	.00	3.69	448.83
3	8	12	1.43	6	2	.10	.00	5.78	24.00	757.84	9.14	.00	4.19	529.96
3	8	12	7.89	6	2	.10	.00	5.78	24.00	3622.20	9.63	.00	3.78	459.09
3	8	11	.63	6	2	.10	.00	5.78	24.00	299.37	9.09	.00	3.78	475.19
3	8	111	8.52	6	2	.10	.00	5.78	24.00	3905.99	9.67	.00	3.78	458.45
3	8	17	.21	6	2	.10	.00	5.78	24.00	90.77	9.06	.00	3.48	432.24
3	8	117	8.73	6	2	.10	.00	5.78	24.00	3993.71	9.65	.00	3.78	457.47
3	8	-7	8.73	6	2	.10	.00	5.78	24.00	3993.71	9.65	.00	3.78	457.47
3	8	102	8.73	6	2	.10	.00	5.78	24.00	3963.38	11.32	.00	3.78	454.00
3	8	2	5.87	6	2	.10	.00	5.78	24.00	1936.70	11.09	.00	3.09	329.93
3	8	102	14.60	6	2	.10	.00	5.78	24.00	5879.59	11.20	.00	3.50	402.71
3	8	5	5.52	6	2	.10	.00	5.78	24.00	2376.07	10.45	.00	3.68	430.45
3	8	4	13.11	6	2	.10	.00	5.78	24.00	5095.58	11.09	.00	3.68	388.68
3	8	104	18.63	6	2	.10	.00	5.78	24.00	7463.57	11.07	.00	3.68	400.62
3	8	6	7.17	6	2	.10	.00	5.78	24.00	2762.38	10.82	.00	3.48	385.27
3	8	106	25.80	6	2	.10	.00	5.78	24.00	10198.41	10.99	.00	3.62	395.29
3	8	3	25.80	6	2	.10	.00	5.78	24.00	10193.71	11.19	.00	3.62	395.11
3	8	3	5.92	6	2	.10	.00	5.78	24.00	2299.99	10.63	.00	3.38	399.51
3	8	3	31.72	6	2	.10	.00	5.78	24.00	12391.29	11.04	.00	3.56	390.65
3	8	102	31.72	6	2	.10	.00	5.78	24.00	12365.08	11.34	.00	3.58	389.92

SUMMARY T 1

ALT	STORM	ID	DA SQ-MI.	RAIN TBLE	AMC	DELTA-T HRS.	TZERO HRS.	PRECIP IN.	PRECIP DURATION	PEAK-Q CFS	PEAK-TIME	PEAK-ELEV	RUNOFF IN.	CSM
3	1	15	1.72	4	2	.10	.00	2.07	237.60	2.20	14.35	.00	.06	1.28
3	1	14	1.16	4	2	.10	.00	2.07	237.60	1.48	14.35	.00	.06	1.28
3	1	14	2.88	4	2	.10	.00	2.07	237.60	3.68	19.15	.00	.06	1.28
3	1	16	2.24	4	2	.10	.00	2.07	237.60	2.86	19.19	.00	.06	1.28
3	1	114	5.12	4	2	.10	.00	2.07	237.60	6.54	19.15	.00	.06	1.28
3	1	13	1.35	4	2	.10	.00	2.07	237.60	1.73	14.35	.00	.06	1.28
3	1	13	6.47	4	2	.10	.00	2.07	237.60	8.27	14.35	.00	.06	1.28
3	1	12	1.43	4	2	.10	.00	2.07	237.60	1.83	19.20	.00	.06	1.28
3	1	12	7.90	4	2	.10	.00	2.07	237.60	10.10	19.22	.00	.06	1.28
3	1	11	.63	4	2	.10	.00	2.07	237.60	.81	14.40	.00	.06	1.28
3	1	111	8.53	4	2	.10	.00	2.07	237.60	10.90	19.15	.00	.06	1.28
3	1	17	.21	4	2	.10	.00	2.07	237.60	.27	19.16	.00	.06	1.28
3	1	117	8.74	4	2	.10	.00	2.07	237.60	11.17	19.15	.00	.06	1.28
3	1	-7	8.74	4	2	.10	.00	2.07	237.60	11.17	19.15	.00	.06	1.28
3	1	102	8.74	4	2	.10	.00	2.07	237.60	11.17	20.58	.00	.05	1.28
3	1	2	5.87	4	2	.10	.00	2.07	237.60	7.45	19.61	.00	.05	1.27
3	1	102	14.61	4	2	.10	.00	2.07	237.60	18.60	19.75	.00	.05	1.27
3	1	5	5.52	4	2	.10	.00	2.07	237.60	7.04	19.30	.00	.06	1.28
3	1	4	13.11	4	2	.10	.00	2.07	237.60	16.63	19.65	.00	.05	1.27
3	1	104	18.63	4	2	.10	.00	2.07	237.60	23.68	19.66	.00	.05	1.27
3	1	6	7.17	4	2	.10	.00	2.07	237.60	9.12	19.38	.00	.05	1.27
3	1	106	25.80	4	2	.10	.00	2.07	237.60	32.79	19.63	.00	.05	1.27
3	1	3	25.80	4	2	.10	.00	2.07	237.60	32.79	19.73	.00	.05	1.27
3	1	3	5.92	4	2	.10	.00	2.07	237.60	7.55	19.20	.00	.05	1.28
3	1	3	31.72	4	2	.10	.00	2.07	237.60	40.31	19.57	.00	.05	1.27
3	1	102	31.72	4	2	.10	.00	2.07	237.60	40.30	19.85	.00	.05	1.27
3	1	-1	46.33	4	2	.10	.00	2.07	237.60	58.90	19.82	1569.42	.05	1.27
3	1	-1	46.33	4	2	.10	.00	2.07	237.60	37.22	.00	.00	.02	.80
3	4	15	1.72	5	2	.10	.00	4.59	6.00	3227.70	2.41	.00	2.80	1876.57
3	4	14	1.16	5	2	.10	.00	4.59	6.00	2195.74	2.37	.00	2.71	1892.88
3	4	14	2.88	5	2	.10	.00	4.59	6.00	4901.14	2.48	.00	2.76	1701.78
3	4	16	2.24	5	2	.10	.00	4.59	6.00	3323.74	2.63	.00	2.99	1483.81
3	4	114	5.12	5	2	.10	.00	4.59	6.00	7937.40	2.53	.00	2.86	1550.27
3	4	13	1.35	5	2	.10	.00	4.59	6.00	3387.80	2.32	.00	3.08	2509.48
3	4	13	6.47	5	2	.10	.00	4.59	6.00	9014.58	2.65	.00	2.91	1393.29
3	4	12	1.43	5	2	.10	.00	4.59	6.00	2868.26	2.50	.00	3.38	2005.78
3	4	12	7.90	5	2	.10	.00	4.59	6.00	10477.75	2.80	.00	2.99	1326.30
3	4	11	.63	5	2	.10	.00	4.59	6.00	1279.36	2.41	.00	2.99	2030.73
3	4	111	8.53	5	2	.10	.00	4.59	6.00	10837.51	2.86	.00	2.99	1270.52
3	4	17	.21	5	2	.10	.00	4.59	6.00	422.18	2.34	.00	2.71	2010.40
3	4	117	8.74	5	2	.10	.00	4.59	6.00	10976.18	2.86	.00	2.98	1255.86
3	4	-7	8.74	5	2	.10	.00	4.59	6.00	10976.18	2.86	.00	2.98	1255.86
3	4	102	8.74	5	2	.10	.00	4.59	6.00	9935.60	4.44	.00	2.98	1136.80
3	4	2	5.87	5	2	.10	.00	4.59	6.00	3300.61	3.82	.00	2.45	562.29
3	4	102	14.61	5	2	.10	.00	4.59	6.00	12759.20	4.41	.00	2.77	873.32
3	4	5	5.52	5	2	.10	.00	4.59	6.00	5174.72	3.11	.00	2.89	937.45
3	4	4	13.11	5	2	.10	.00	4.59	6.00	8264.54	3.82	.00	2.89	630.40
3	4	104	18.63	5	2	.10	.00	4.59	6.00	13297.22	3.74	.00	2.89	713.75
3	4	6	7.17	5	2	.10	.00	4.59	6.00	4812.26	3.68	.00	2.71	671.17
3	4	106	25.80	5	2	.10	.00	4.59	6.00	18087.14	3.72	.00	2.84	701.05
3	4	3	25.80	5	2	.10	.00	4.59	6.00	17890.11	3.94	.00	2.84	693.42
3	4	3	5.92	5	2	.10	.00	4.59	6.00	4428.00	3.36	.00	2.62	747.97
3	4	3	31.72	5	2	.10	.00	4.59	6.00	21358.03	3.89	.00	2.80	673.33

3	[redacted]	-1	46.32	6	2	.10	.00	5.78	[redacted]	.00	18234.70	11.31	-1589.69	3.55	393.
3	8	-1	46.32	6	2	.10	.00	5.78		24.00	5243.48	15.83	1586.35	1.78	113.
3	9	15	1.71	6	2	.10	.00	10.96		24.00	1863.37	9.04	.00	8.43	1089.69
3	9	14	1.16	6	2	.10	.00	10.96		24.00	1247.33	9.02	.00	8.29	1075.29
3	9	14	2.87	6	2	.10	.00	10.96		24.00	3096.92	9.07	.00	8.37	1079.07
3	9	16	2.24	6	2	.10	.00	10.96		24.00	2449.52	9.20	.00	8.69	1093.54
3	9	114	5.11	6	2	.10	.00	10.96		24.00	5530.89	9.11	.00	8.51	1082.37
3	9	13	1.35	6	2	.10	.00	10.96		24.00	1553.18	8.98	.00	8.82	1150.50
3	9	13	6.46	6	2	.10	.00	10.96		24.00	6936.48	9.19	.00	8.58	1073.76
3	9	12	1.43	6	2	.10	.00	10.96		24.00	1686.54	9.07	.00	9.20	1179.40
3	9	12	7.89	6	2	.10	.00	10.96		24.00	8544.63	9.32	.00	8.69	1082.37
3	9	11	.63	6	2	.10	.00	10.96		24.00	707.92	9.03	.00	8.69	1123.68
3	9	111	8.52	6	2	.10	.00	10.96		24.00	9193.96	9.39	.00	8.69	1079.10
3	9	17	.21	6	2	.10	.00	10.96		24.00	226.10	9.00	.00	8.29	1076.68
3	9	117	8.73	6	2	.10	.00	10.96		24.00	9403.92	9.39	.00	8.68	1077.20
3	9	-7	8.73	6	2	.10	.00	10.96		24.00	9403.92	9.39	.00	8.68	1077.20
3	9	102	8.73	6	2	.10	.00	10.96		24.00	9296.23	11.03	.00	8.68	1064.86
3	9	2	5.87	6	2	.10	.00	10.96		24.00	4915.52	10.79	.00	7.76	837.40
3	9	102	14.60	6	2	.10	.00	10.96		24.00	14187.53	10.99	.00	8.31	971.75
3	9	5	5.52	6	2	.10	.00	10.96		24.00	5536.17	9.91	.00	8.56	1002.93
3	9	4	13.11	6	2	.10	.00	10.96		24.00	11896.94	10.81	.00	8.56	907.47
3	9	104	18.63	6	2	.10	.00	10.96		24.00	17365.20	10.78	.00	8.56	932.11
3	9	6	7.17	6	2	.10	.00	10.96		24.00	6576.22	10.54	.00	8.29	917.19
3	9	106	25.80	6	2	.10	.00	10.96		24.00	23930.06	10.77	.00	8.48	927.52
3	9	3	25.80	6	2	.10	.00	10.96		24.00	23880.64	10.95	.00	8.48	925.61
3	9	3	5.92	6	2	.10	.00	10.96		24.00	5540.78	10.35	.00	8.16	935.94
3	9	3	31.72	6	2	.10	.00	10.96		24.00	29183.10	10.84	.00	8.42	920.02
3	9	102	31.72	6	2	.10	.00	10.96		24.00	29146.88	11.12	.00	8.42	918.88
3	9	-1	46.32	6	2	.10	.00	10.96		24.00	43310.63	11.06	~~1595.26~~	8.39	935.03
3	9	-1	46.32	6	2	.10	.00	10.96		24.00	26967.07	12.90	1591.63	6.56	582.19
3	10	15	1.71	2	2	.10	.00	2.45		24.00	795.61	12.06	.00	.85	465.27
3	10	14	1.16	2	2	.10	.00	2.45		24.00	528.31	12.04	.00	.80	455.44
3	10	14	2.87	2	2	.10	.00	2.45		24.00	1231.27	12.10	.00	.83	429.01
3	10	16	2.24	2	2	.10	.00	2.45		24.00	876.49	12.22	.00	.96	391.29
3	10	114	5.11	2	2	.10	.00	2.45		24.00	2051.96	12.13	.00	.89	401.56
3	10	13	1.35	2	2	.10	.00	2.45		24.00	822.00	12.00	.00	1.02	608.89
3	10	13	6.46	2	2	.10	.00	2.45		24.00	2226.18	12.26	.00	.92	344.61
3	10	12	1.43	2	2	.10	.00	2.45		24.00	828.50	12.12	.00	1.20	579.37
3	10	12	7.89	2	2	.10	.00	2.45		24.00	2719.40	12.32	.00	.97	344.66
3	10	11	.63	2	2	.10	.00	2.45		24.00	330.91	12.06	.00	.96	525.26
3	10	111	8.52	2	2	.10	.00	2.45		24.00	2812.10	12.38	.00	.97	330.06
3	10	17	.21	2	2	.10	.00	2.45		24.00	97.08	12.03	.00	.80	462.28
3	10	117	8.73	2	2	.10	.00	2.45		24.00	2841.99	12.37	.00	.96	325.54
3	10	-7	8.73	2	2	.10	.00	2.45		24.00	2841.99	12.37	.00	.96	325.54
3	10	102	8.73	2	2	.10	.00	2.45		24.00	2568.74	13.97	.00	.96	294.24
3	10	2	5.87	2	2	.10	.00	2.45		24.00	588.02	13.24	.00	.62	100.17
3	10	102	14.60	2	2	.10	.00	2.45		24.00	3054.44	13.95	.00	.82	209.21
3	10	5	5.52	2	2	.10	.00	2.45		24.00	1299.88	12.63	.00	.91	235.49
3	10	4	13.11	2	2	.10	.00	2.45		24.00	2018.36	13.39	.00	.90	153.96
3	10	104	18.63	2	2	.10	.00	2.45		24.00	3236.49	13.29	.00	.90	173.72
3	10	6	7.17	2	2	.10	.00	2.45		24.00	1082.99	13.03	.00	.80	151.04
3	10	106	25.80	2	2	.10	.00	2.45		24.00	4294.07	13.25	.00	.88	166.44
3	10	3	25.80	2	2	.10	.00	2.45		24.00	4268.43	13.46	.00	.88	165.44
3	10	3	5.92	2	2	.10	.00	2.45		24.00	992.73	12.82	.00	.75	167.69
3	10	3	31.72	2	2	.10	.00	2.45		24.00	4987.39	13.36	.00	.85	157.23
3	10	102	31.72	2	2	.10	.00	2.45		24.00	4945.84	13.67	.00	.85	155.92
3	10	-1	46.32	2	2	.10	.00	2.45		24.00	7829.53	13.85	~~1587.12~~	.84	169.03

XSEC/STRUC NO.111										
ALTERNATE	3	10.90	10837.51	26481.37	3905.99	9193.96	2812.10	.00	.00	.00	.00
XSEC/STRUC NO.114										
ALTERNATE	3	6.54	7937.40	19959.65	2266.42	5530.89	2051.96	.00	.00	.00	.00
XSEC/STRUC NO.117										
ALTERNATE	3	11.17	10976.18	26795.48	3993.71	9403.92	2841.99	.00	.00	.00	.00

ENDJOB CARD ENCOUNTERED. END OF JOB.

3	10	1	46.32	2	2	.10	.00	2.45	.00	139.71	26.36	1577.87	.08	3.0
3	11	15	1.71	2	2	.10	.00	2.99	24.00	1173.90	12.06	.00	1.24	686.
3	11	14	1.16	2	2	.10	.00	2.99	24.00	788.38	12.03	.00	1.18	679.64
3	11	14	2.87	2	2	.10	.00	2.99	24.00	1838.33	12.09	.00	1.22	640.53
3	11	16	2.24	2	2	.10	.00	2.99	24.00	1277.78	12.21	.00	1.37	570.44
3	11	114	5.11	2	2	.10	.00	2.99	24.00	3039.78	12.12	.00	1.28	594.97
3	11	13	1.35	2	2	.10	.00	2.99	24.00	1163.38	11.99	.00	1.44	861.76
3	11	13	6.46	2	2	.10	.00	2.99	24.00	3279.69	12.22	.00	1.32	507.69
3	11	12	1.43	2	2	.10	.00	2.99	24.00	1145.88	12.11	.00	1.65	801.32
3	11	12	7.89	2	2	.10	.00	2.99	24.00	3994.12	12.31	.00	1.38	506.23
3	11	11	.63	2	2	.10	.00	2.99	24.00	476.12	12.06	.00	1.37	755.75
3	11	111	8.52	2	2	.10	.00	2.99	24.00	4123.37	12.37	.00	1.38	483.96
3	11	17	.21	2	2	.10	.00	2.99	24.00	144.72	12.02	.00	1.18	689.14
3	11	117	8.73	2	2	.10	.00	2.99	24.00	4166.89	12.36	.00	1.37	477.31
3	11	-7	8.73	2	2	.10	.00	2.99	24.00	4166.89	12.36	.00	1.37	477.31
3	11	102	8.73	2	2	.10	.00	2.99	24.00	3757.15	13.96	.00	1.37	430.37
3	11	2	5.87	2	2	.10	.00	2.99	24.00	965.70	13.22	.00	.95	164.51
3	11	102	14.60	2	2	.10	.00	2.99	24.00	4524.75	13.93	.00	1.20	309.91
3	11	5	5.52	2	2	.10	.00	2.99	24.00	1930.12	12.61	.00	1.30	349.66
3	11	4	13.11	2	2	.10	.00	2.99	24.00	2987.62	13.37	.00	1.30	227.89
3	11	104	18.63	2	2	.10	.00	2.99	24.00	4802.11	13.25	.00	1.30	257.76
3	11	6	7.17	2	2	.10	.00	2.99	24.00	1661.94	13.01	.00	1.18	231.79
3	11	106	25.80	2	2	.10	.00	2.99	24.00	6418.35	13.20	.00	1.27	248.77
3	11	3	25.80	2	2	.10	.00	2.99	24.00	6378.74	13.42	.00	1.27	247.24
3	11	3	5.92	2	2	.10	.00	2.99	24.00	1543.15	12.80	.00	1.12	260.67
3	11	3	31.72	2	2	.10	.00	2.99	24.00	7495.70	13.32	.00	1.24	236.31
3	11	102	31.72	2	2	.10	.00	2.99	24.00	7429.40	13.63	.00	1.24	234.22
3	11	-1	46.32	2	2	.10	.00	2.99	24.00	11656.23	13.82	~~1588.23~~	1.23	251.65
3	11	-1	46.32	2	2	.10	.00	2.99	24.00	151.84	26.39	1580.51	.08	3.28
3	12	15	1.71	2	2	.10	.00	3.85	24.00	1803.17	12.05	.00	1.92	1054.48
3	12	14	1.16	2	2	.10	.00	3.85	24.00	1238.31	12.02	.00	1.84	1067.51
3	12	14	2.87	2	2	.10	.00	3.85	24.00	2887.21	12.08	.00	1.88	1006.00
3	12	16	2.24	2	2	.10	.00	3.85	24.00	1961.91	12.19	.00	2.07	875.85
3	12	114	5.11	2	2	.10	.00	3.85	24.00	4739.05	12.11	.00	1.97	927.41
3	12	13	1.35	2	2	.10	.00	3.85	24.00	1735.33	11.99	.00	2.16	1285.43
3	12	13	6.46	2	2	.10	.00	3.85	24.00	5131.79	12.19	.00	2.01	794.39
3	12	12	1.43	2	2	.10	.00	3.85	24.00	1670.29	12.10	.00	2.41	1168.03
3	12	12	7.89	2	2	.10	.00	3.85	24.00	6174.80	12.31	.00	2.08	782.61
3	12	11	.63	2	2	.10	.00	3.85	24.00	714.21	12.05	.00	2.07	1133.66
3	12	111	8.52	2	2	.10	.00	3.85	24.00	6365.17	12.36	.00	2.08	747.09
3	12	17	.21	2	2	.10	.00	3.85	24.00	227.06	12.00	.00	1.84	1081.22
3	12	117	8.73	2	2	.10	.00	3.85	24.00	6431.90	12.35	.00	2.07	736.76
3	12	-7	8.73	2	2	.10	.00	3.85	24.00	6431.90	12.35	.00	2.07	736.76
3	12	102	8.73	2	2	.10	.00	3.85	24.00	5791.21	13.94	.00	2.07	663.37
3	12	2	5.87	2	2	.10	.00	3.85	24.00	1659.04	13.19	.00	1.55	282.63
3	12	102	14.60	2	2	.10	.00	3.85	24.00	7061.44	13.91	.00	1.86	483.66
3	12	5	5.52	2	2	.10	.00	3.85	24.00	3016.91	12.59	.00	1.99	546.54
3	12	4	13.11	2	2	.10	.00	3.85	24.00	4656.03	13.36	.00	1.99	355.15
3	12	104	18.63	2	2	.10	.00	3.85	24.00	7510.97	13.20	.00	1.99	403.17
3	12	6	7.17	2	2	.10	.00	3.85	24.00	2678.60	13.00	.00	1.84	373.58
3	12	106	25.80	2	2	.10	.00	3.85	24.00	10111.82	13.15	.00	1.95	391.93
3	12	3	25.80	2	2	.10	.00	3.85	24.00	10044.47	13.38	.00	1.95	389.32
3	12	3	5.92	2	2	.10	.00	3.85	24.00	2514.57	12.79	.00	1.76	424.76
3	12	3	31.72	2	2	.10	.00	3.85	24.00	11859.45	13.29	.00	1.91	373.88
3	12	102	31.72	2	2	.10	.00	3.85	24.00	11750.79	13.59	.00	1.91	370.45
3	12	-1	46.32	2	2	.10	.00	3.85	24.00	18279.25	13.80	~~1589.70~~	1.90	394.63
3	12	-1	46.32	2	2	.10	.00	3.85	24.00	587.99	25.78	1583.97	.19	12.69

SUMMARY [redacted] 3

	DISCHARGE,CFS									
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
XSEC/STRUC NO. -7 ALTERNATE 3	11.17	10976.18	26795.48	3993.71	9403.92	2841.99	.00	.00	.00	.00
XSEC/STRUC NO. -1 ALTERNATE 3	37.22	6384.68	34958.28	5243.48	26967.07	139.71	.00	.00	.00	.00
XSEC/STRUC NO. 2 ALTERNATE 3	7.45	3300.61	8618.80	1936.70	4915.52	588.02	.00	.00	.00	.00
XSEC/STRUC NO. 3 ALTERNATE 3	40.31	21358.03	52256.11	12391.29	29183.10	4987.39	.00	.00	.00	.00
XSEC/STRUC NO. 4 ALTERNATE 3	16.63	8264.54	20075.05	5095.58	11896.94	2018.36	.00	.00	.00	.00
XSEC/STRUC NO. 5 ALTERNATE 3	7.04	5174.72	12754.35	2376.07	5536.17	1299.88	.00	.00	.00	.00
XSEC/STRUC NO. 6 ALTERNATE 3	9.12	4812.26	11960.85	2762.38	6576.22	1082.99	.00	.00	.00	.00
XSEC/STRUC NO. 11 ALTERNATE 3	.81	1279.36	3140.83	299.37	707.92	330.91	.00	.00	.00	.00
XSEC/STRUC NO. 12 ALTERNATE 3	10.10	10477.75	25682.54	3622.20	8544.63	2719.40	.00	.00	.00	.00
XSEC/STRUC NO. 13 ALTERNATE 3	8.27	9014.58	22548.61	2899.44	6936.48	2226.18	.00	.00	.00	.00
XSEC/STRUC NO. 14 ALTERNATE 3	3.68	4901.14	12856.54	1249.81	3096.92	1231.27	.00	.00	.00	.00
XSEC/STRUC NO. 15 ALTERNATE 3	2.20	3227.70	8279.27	761.01	1863.37	795.61	.00	.00	.00	.00
XSEC/STRUC NO. 16 ALTERNATE 3	2.86	3323.74	8115.48	1028.39	2449.52	876.49	.00	.00	.00	.00
XSEC/STRUC NO. 17 ALTERNATE 3	.27	422.18	1122.19	90.77	226.10	97.08	.00	.00	.00	.00
XSEC/STRUC NO.102 ALTERNATE 3	40.30	21174.85	51884.33	12365.08	29146.88	4945.84	.00	.00	.00	.00
XSEC/STRUC NO.104 ALTERNATE 3	23.68	13297.22	32317.87	7463.57	17365.20	3236.49	.00	.00	.00	.00
XSEC/STRUC NO.106 ALTERNATE 3	32.79	18087.14	44178.17	10198.41	23930.06	4294.07	.00	.00	.00	.00

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0 CFS-HRS= 11673.76 ACRE-FT= 964.72

SUBROUTINE SAVMOV CROSS SECTION 117
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 6

SUBROUTINE RESVOR STRUCTURE 7
SURFACE ELEVATION= 1967.00

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.35	6431.900	(NULL)
21.77	240.069	(NULL)
23.77	205.050	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 8.73

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.01	.07	.23	.50	.86	1.29
7.00	DISCHG	1.76	2.26	2.84	3.54	4.31	5.11	5.89	6.71	7.67	8.82
8.00	DISCHG	10.16	11.66	13.44	15.64	18.18	20.90	23.70	26.72	30.07	33.75
9.00	DISCHG	37.63	41.81	46.72	52.56	59.10	65.88	72.84	80.41	88.71	97.49
10.00	DISCHG	106.31	115.61	126.73	139.92	154.58	169.59	185.68	205.35	228.93	255.17
11.00	DISCHG	281.91	311.81	351.48	400.73	456.99	519.60	684.75	1132.47	1894.38	2929.69
12.00	DISCHG	4112.24	5209.61	5982.82	6388.77	6397.92	6099.70	5568.03	4836.31	4036.91	3310.74
13.00	DISCHG	2730.38	2289.79	1947.97	1681.22	1475.91	1322.18	1205.65	1109.35	1027.36	957.94
14.00	DISCHG	900.98	853.41	810.45	771.95	738.72	711.37	688.20	666.44	646.10	627.79
15.00	DISCHG	612.14	598.01	583.29	568.42	554.07	541.00	528.40	514.62	500.20	486.00
16.00	DISCHG	473.04	461.04	448.99	437.46	427.08	418.32	411.12	405.13	400.33	396.79
17.00	DISCHG	394.40	392.36	389.64	386.22	382.14	377.77	372.85	366.73	359.94	353.08
18.00	DISCHG	346.70	340.45	333.48	326.15	318.93	312.35	306.49	301.25	296.83	293.48
19.00	DISCHG	291.18	289.73	288.87	288.38	288.13	287.99	287.39	285.49	282.48	278.58
20.00	DISCHG	274.27	269.90	265.59	261.75	258.75	256.62	254.68	251.94	248.37	244.08
21.00	DISCHG	239.54	235.60	233.16	232.32	233.26	235.49	238.01	239.67	240.01	238.92
22.00	DISCHG	236.46	233.36	229.84	226.46	223.73	221.75	219.89	217.20	213.63	209.32
23.00	DISCHG	204.73	200.74	198.23	197.38	198.31	200.54	203.04	204.65	204.99	203.79
24.00	DISCHG	201.24	195.03	181.78	162.79	139.76	115.43	91.38	68.23	47.80	31.73
25.00	DISCHG	20.32	12.81	8.06	5.10	3.24	2.07	1.33	.86	.55	.34
26.00	DISCHG	.21	.12	.06	.00						

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0720 CFS-HRS= 11673.76 ACRE-FT= 964.72

SUBROUTINE REACH CROSS SECTION 102
LENGTH= 38600.00 INPUT COEFFICIENT= .8000 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.800 AVERAGE ROUTING COEFF= .8000 NUMBER OF ROUTINGS= 12.61

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.94	5791.214	(NULL)
23.29	237.964	(NULL)
25.27	202.924	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 2.0[illegible] CFS-HRS= 11673.21 ACRE-FT= [illegible]564.67

SUBROUTINE RUNOFF CROSS SECTION 2
AREA= 5.07 INPUT RUNOFF CURVE= 75.0 TIME OF CONCENTRATION= 2.02

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.19	1659.041	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.5521 CFS-HRS= 5880.03 ACRE-FT= 485.93

SUBROUTINE ADDHYD CROSS SECTION 102
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 1

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.91	7061.437	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 14.60

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05
8.00	DISCHG	.13	.26	.47	.76	1.11	1.52	2.01	2.56	3.19	3.87
9.00	DISCHG	4.60	5.39	6.24	7.20	8.28	9.53	10.98	12.68	14.69	16.95
10.00	DISCHG	19.45	22.33	25.56	29.03	32.87	37.72	43.00	48.80	56.23	64.76
11.00	DISCHG	73.79	83.86	96.79	110.19	124.07	157.50	198.94	241.45	301.57	408.94
12.00	DISCHG	517.75	628.40	789.19	964.34	1142.04	1318.24	1489.55	1666.55	1852.35	1984.39
13.00	DISCHG	2163.34	2453.50	2875.85	3443.98	4183.17	5019.30	5798.49	6449.54	6886.84	7059.12
14.00	DISCHG	6958.00	6614.13	6085.11	5466.59	4814.46	4188.97	3635.01	3165.78	2775.06	2456.12
15.00	DISCHG	2205.51	2001.87	1833.97	1698.02	1585.26	1487.85	1403.15	1332.48	1269.12	1211.93
16.00	DISCHG	1162.96	1119.46	1079.33	1042.70	1010.59	980.38	951.55	925.63	900.96	876.88
17.00	DISCHG	853.96	832.78	811.63	790.50	771.03	752.15	733.70	716.14	699.80	684.39
18.00	DISCHG	670.09	657.20	645.57	635.18	626.08	618.03	610.46	603.01	596.05	588.74
19.00	DISCHG	580.94	572.92	564.62	555.84	546.81	538.15	529.30	520.28	511.42	502.77
20.00	DISCHG	494.39	486.46	479.24	472.76	467.10	462.25	458.17	454.77	451.87	449.27
21.00	DISCHG	446.68	443.80	440.48	436.51	431.89	426.88	421.87	416.81	411.97	407.76
22.00	DISCHG	403.90	400.15	396.24	392.01	387.50	382.97	378.67	375.12	372.62	371.13
23.00	DISCHG	370.42	370.15	369.79	368.86	367.12	364.52	361.37	357.91	354.28	350.68
24.00	DISCHG	346.78	342.82	338.61	333.03	326.47	319.83	313.24	305.53	298.86	293.31
25.00	DISCHG	287.84	282.43	276.94	270.89	263.86	254.64	242.21	226.81	207.72	185.19
26.00	DISCHG	160.68	136.11	111.77	88.94	69.55	53.44	40.48	30.62	23.54	18.25
27.00	DISCHG	14.27	11.59	9.56	7.93	6.68	5.77	4.97	4.23	3.74	3.28
28.00	DISCHG	2.85	2.50	2.22	1.95	1.69	1.51	1.33	1.15	1.01	.89
29.00	DISCHG	.77	.65	.58	.50	.42	.36	.30	.25	.20	.16

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8629 CFS-HRS= 17553.23 ACRE-FT= 1450.60

SUBROUTINE RUNOFF CROSS SECTION 5
AREA= 5.52 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 1.18

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS

12.59	3016.906	(RUNOFF)	
21.78	149.187	(RUNOFF)	
23.77	127.371	(RUNOFF)	

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9921 CFS-HRS= 7096.76 ACRE-FT= 586.48

SUBROUTINE REACH CROSS SECTION 104
LENGTH= 12500.00 INPUT COEFFICIENT= .7800 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 6.027 AVERAGE ROUTING COEFF= .7800 NUMBER OF ROUTINGS= 4.49

SUBROUTINE RUNOFF CROSS SECTION 4
AREA= 13.11 INPUT RUNOFF CURVE= 81.0 TIME OF CONCENTRATION= 2.17

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.36	4656.032	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9916 CFS-HRS= 16850.21 ACRE-FT= 1392.50

SUBROUTINE ADDHYD CROSS SECTION 104
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.20	7510.968	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9917 CFS-HRS= 23947.06 ACRE-FT= 1978.98

SUBROUTINE SAVMOV CROSS SECTION 104
INPUT HYDROGRAPH= 7 OUTPUT HYDROGRAPH= 5

SUBROUTINE RUNOFF CROSS SECTION 6
AREA= 7.17 INPUT RUNOFF CURVE= 79.0 TIME OF CONCENTRATION= 1.80

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.00	2678.601	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8387 CFS-HRS= 8508.14 ACRE-FT= 703.11

SUBROUTINE ADDHYD CROSS SECTION 106
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.15	10111.820	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 25.80

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

6.00	[illegible]HG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	[illegible]CHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
8.00	DISCHG	.02	.03	.06	.24	.42	.59	1.03	1.84	2.71	3.65
9.00	DISCHG	5.69	8.33	11.19	14.53	20.16	26.09	32.62	40.61	50.31	60.60
10.00	DISCHG	72.04	85.08	98.69	115.72	132.02	151.70	174.07	196.82	220.72	253.23
11.00	DISCHG	286.34	320.18	365.21	420.52	477.01	568.12	743.60	956.75	1253.78	1583.42
12.00	DISCHG	2088.85	2695.35	3380.54	4151.75	5065.89	6050.18	7091.39	8000.24	8735.55	9410.04
13.00	DISCHG	9939.24	10094.29	10099.26	9984.66	9725.42	9263.00	8772.19	8265.69	7739.53	7182.14
14.00	DISCHG	6681.55	6201.20	5763.15	5378.98	5009.46	4652.58	4373.29	4108.31	3851.69	3623.22
15.00	DISCHG	3429.81	3241.71	3067.14	2911.32	2772.56	2643.15	2518.79	2410.35	2311.36	2215.62
16.00	DISCHG	2121.37	2043.55	1968.30	1893.99	1825.37	1766.20	1707.66	1650.75	1600.75	1554.30
17.00	DISCHG	1509.04	1466.03	1429.45	1394.63	1361.70	1330.19	1303.40	1278.03	1252.96	1229.17
18.00	DISCHG	1207.96	1186.65	1165.20	1144.18	1123.24	1102.17	1081.10	1060.58	1039.98	1019.82
19.00	DISCHG	1000.52	983.26	966.74	950.73	936.33	923.76	911.89	900.40	890.62	881.53
20.00	DISCHG	872.67	863.95	855.69	847.31	838.71	829.87	820.87	811.70	802.43	793.24
21.00	DISCHG	784.17	775.22	766.31	757.82	749.78	741.66	733.78	727.48	721.45	715.80
22.00	DISCHG	711.07	707.08	703.35	699.59	695.57	691.32	686.57	681.45	675.87	669.89
23.00	DISCHG	663.69	657.36	650.86	644.28	637.56	631.19	625.18	619.24	613.57	608.09
24.00	DISCHG	603.01	597.76	590.92	581.56	571.29	558.17	541.80	521.24	496.60	470.26
25.00	DISCHG	439.62	406.24	371.95	337.27	304.27	271.89	240.41	212.83	188.52	165.38
26.00	DISCHG	144.94	127.91	112.98	99.47	86.76	77.03	68.45	60.41	52.85	47.25
27.00	DISCHG	42.03	36.93	32.58	29.15	25.78	22.56	20.10	17.90	15.78	13.79
28.00	DISCHG	12.35	10.94	9.64	8.44	7.52	6.67	5.84	5.14	4.58	4.02
29.00	DISCHG	3.46	3.06	2.69	2.32	1.98	1.74	1.50	1.28	1.08	.93

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9492 CFS-HRS= 32455.20 ACRE-FT= 2682.10

SUBROUTINE REACH CROSS SECTION 3
LENGTH= 4000.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 1.63

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.38	10044.475	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9495 CFS-HRS= 32459.50 ACRE-FT= 2682.45

SUBROUTINE RUNOFF CROSS SECTION 3
AREA= 5.92 INPUT RUNOFF CURVE= 78.0 TIME OF CONCENTRATION= 1.41

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
12.79	2514.573	(RUNOFF)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.7645 CFS-HRS= 6741.60 ACRE-FT= 557.13

SUBROUTINE ADDHYD CROSS SECTION 3
INPUT HYDROGRAPHS= 5.6 OUTPUT HYDROGRAPH= 7

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.29	11859.447	(NULL)

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9149 CFS-HRS= 39201.10 ACRE-FT= 3239.58

SUBROUTINE CH CROSS SECTION 102
LENGTH= 5500.00 INPUT COEFFICIENT= .7500 INPUT ROUTINGS= .00

AVERAGE WATER VELOCITY= 5.100 AVERAGE ROUTING COEFF= .7500 NUMBER OF ROUTINGS= 2.25

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.59	11750.794	(NULL)

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 31.72

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.01	.02	.05	.13	.26	.44
9.00	DISCHG	.75	1.25	1.94	2.88	4.29	6.33	8.94	12.35	16.91	22.63
10.00	DISCHG	29.56	37.77	47.65	59.04	71.97	86.66	103.11	121.59	141.90	164.69
11.00	DISCHG	190.27	218.24	249.53	285.01	325.31	370.38	425.16	495.50	580.71	723.49
12.00	DISCHG	935.96	1243.02	1662.04	2185.01	2842.89	3632.39	4504.47	5444.49	6446.37	7463.30
13.00	DISCHG	8485.92	9423.42	10230.42	10900.05	11396.79	11677.16	11750.13	11646.47	11391.98	10999.64
14.00	DISCHG	10503.24	9949.75	9361.77	8760.09	8167.24	7598.51	7067.39	6577.61	6126.96	5711.63
15.00	DISCHG	5337.70	5002.00	4695.11	4416.27	4164.69	3936.08	3726.51	3534.81	3360.78	3201.37
16.00	DISCHG	3054.34	2919.34	2795.31	2679.66	2570.84	2470.23	2376.83	2289.16	2207.27	2131.59
17.00	DISCHG	2061.51	1995.85	1935.03	1878.81	1826.23	1777.14	1731.84	1690.07	1651.10	1614.58
18.00	DISCHG	1580.72	1549.23	1519.32	1490.79	1463.64	1437.48	1411.86	1386.58	1361.50	1336.62
19.00	DISCHG	1311.91	1287.53	1263.61	1240.17	1217.74	1196.60	1176.81	1158.28	1141.06	1125.30
20.00	DISCHG	1110.77	1097.16	1084.50	1072.68	1061.38	1050.44	1039.81	1029.34	1018.87	1008.29
21.00	DISCHG	997.56	986.62	975.52	964.38	953.29	942.38	931.86	921.74	912.26	903.30
22.00	DISCHG	894.83	887.04	879.92	873.23	867.04	861.38	856.09	850.99	845.78	840.34
23.00	DISCHG	834.50	828.18	821.38	814.13	806.50	798.79	791.04	783.39	775.97	768.82
24.00	DISCHG	762.01	755.51	748.89	742.06	734.86	726.41	716.45	703.55	687.69	668.83
25.00	DISCHG	646.45	620.31	590.78	558.16	522.83	485.25	446.06	406.76	368.07	330.69
26.00	DISCHG	295.03	261.80	231.57	204.03	179.31	157.52	138.45	121.65	106.74	93.83
27.00	DISCHG	82.69	72.89	64.21	56.66	50.10	44.24	39.05	34.53	30.53	26.94
28.00	DISCHG	23.78	21.02	18.56	16.36	14.43	12.75	11.25	9.90	8.73	7.71
29.00	DISCHG	6.80	5.99	5.29	4.66	4.09	3.59	3.14	2.74	2.38	2.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.9150 CFS-HRS= 39201.80 ACRE-FT= 3239.64

SUBROUTINE SAVMOV CROSS SECTION 102
INPUT HYDROGRAPH= 1 OUTPUT HYDROGRAPH= 6

SUBROUTINE ADDHYD STRUCTURE 1
INPUT HYDROGRAPHS= 5,6 OUTPUT HYDROGRAPH= 4

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
13.80	18279.250	1589.70

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05
8.00	DISCHG	.13	.26	.47	.76	1.12	1.54	2.06	2.70	3.45	4.31
9.00	DISCHG	5.35	6.64	8.18	10.08	12.57	15.87	19.92	25.03	31.60	39.58
10.00	DISCHG	49.01	60.10	73.20	88.07	104.84	124.39	146.11	170.39	198.12	229.45
11.00	DISCHG	264.06	302.10	346.32	395.20	449.38	527.88	624.09	736.95	882.27	1132.42
12.00	DISCHG	1453.71	1871.41	2451.23	3149.35	3984.93	4950.63	5994.02	7111.04	8298.72	9447.68
13.00	DISCHG	10649.26	11876.92	13106.27	14344.03	15579.96	16696.46	17548.62	18096.01	18278.82	18058.76
14.00	DISCHG	17461.24	16563.88	15446.88	14226.68	12981.69	11787.48	10702.41	9743.39	8902.02	8167.75
15.00	DISCHG	7543.21	7003.87	6529.08	6114.28	5749.95	5423.92	5129.66	4867.29	4629.90	4413.29
16.00	DISCHG	4217.30	4038.79	3874.64	3722.36	3581.44	3450.62	3328.38	3214.79	3108.23	3008.47
17.00	DISCHG	2915.47	2828.63	2746.65	2669.31	2597.27	2529.28	2465.55	2406.21	2350.91	2298.97
18.00	DISCHG	2250.81	2206.42	2164.89	2125.97	2089.72	2055.51	2022.32	1989.59	1957.55	1925.36
19.00	DISCHG	1892.86	1860.46	1828.23	1796.01	1764.54	1734.75	1706.12	1678.56	1652.48	1628.07
20.00	DISCHG	1605.16	1583.63	1563.75	1545.44	1528.48	1512.70	1497.98	1484.11	1470.74	1457.56
21.00	DISCHG	1444.24	1430.42	1416.00	1400.89	1385.18	1369.26	1353.72	1338.56	1324.24	1311.06
22.00	DISCHG	1298.73	1287.19	1276.16	1265.24	1254.55	1244.35	1234.77	1226.11	1218.40	1211.48
23.00	DISCHG	1204.92	1198.33	1191.18	1182.98	1173.61	1163.31	1152.41	1141.30	1130.25	1119.50
24.00	DISCHG	1108.79	1098.33	1087.50	1075.09	1061.33	1046.25	1029.69	1009.08	986.55	962.13
25.00	DISCHG	934.29	902.74	867.71	829.05	786.70	739.89	688.27	633.57	575.80	515.88
26.00	DISCHG	455.70	397.92	343.34	292.96	248.86	210.95	178.93	152.27	130.28	112.08
27.00	DISCHG	96.95	84.48	73.77	64.59	56.78	50.02	44.02	38.76	34.27	30.22
28.00	DISCHG	26.63	23.52	20.79	18.31	16.12	14.26	12.58	11.05	9.74	8.60
29.00	DISCHG	7.57	6.65	5.87	5.16	4.51	3.94	3.45	2.99	2.58	2.18

TOTAL WATER, IN INCHES ON DRAINAGE AREA= 1.8986 CFS-HRS= 56755.03 ACRE-FT= 4690.24

SUBROUTINE RESVOR STRUCTURE 1
SURFACE ELEVATION= 1568.20

PEAK TIMES	PEAK DISCHARGES	PEAK ELEVATIONS
25.78	587.986	1583.97

HYDROGRAPH, TZERO= .00 DELTA T= .10 DRAINAGE AREA= 46.32

TIME											
.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7.00	DISCHG	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8.00	DISCHG	.00	.00	.00	.00	.01	.01	.02	.03	.04	.05
9.00	DISCHG	.07	.09	.12	.15	.20	.25	.31	.39	.50	.63
10.00	DISCHG	.79	.99	1.23	1.53	1.88	2.29	2.79	3.36	4.03	4.81
11.00	DISCHG	5.70	6.73	7.91	9.25	10.78	12.55	14.63	17.10	20.03	23.69
12.00	DISCHG	28.39	34.44	42.31	52.52	65.53	81.83	92.96	95.29	98.04	101.21
13.00	DISCHG	104.81	108.11	111.44	115.09	119.06	121.97	125.06	128.28	131.36	134.21
14.00	DISCHG	136.99	139.66	141.79	143.35	144.78	146.08	147.26	148.33	149.30	150.17
15.00	DISCHG	150.89	151.55	152.16	152.74	153.27	153.78	154.26	154.71	155.13	155.54
16.00	DISCHG	155.93	156.29	156.65	156.99	157.31	157.62	157.92	158.21	158.49	158.76
17.00	DISCHG	159.02	159.28	159.53	159.77	160.00	160.23	160.45	160.67	160.87	161.08
18.00	DISCHG	161.28	161.47	161.67	161.85	162.04	162.22	162.39	162.57	162.74	162.91

19.00	[redacted]HG	163.07	163.23	163.39	163.55	[redacted].70	163.85	164.00	164.14	164.28	1[redacted]42
20.00	[redacted]CHG	164.56	164.70	164.83	164.96	[redacted]4.81	188.72	202.33	215.66	228.70	2[redacted].47
21.00	DISCHG	253.98	266.21	278.17	289.86	301.27	312.39	323.24	333.81	344.13	354.19
22.00	DISCHG	364.02	373.62	383.01	392.19	401.16	409.93	418.51	426.90	435.13	443.19
23.00	DISCHG	451.10	458.86	466.46	473.91	481.20	488.30	495.23	501.96	508.52	514.89
24.00	DISCHG	521.08	527.11	532.95	538.62	544.10	549.37	554.42	559.23	563.76	568.01
25.00	DISCHG	571.94	575.52	578.72	581.51	583.85	585.71	587.03	587.80	587.97	587.54
26.00	DISCHG	586.48	584.83	582.62	579.88	576.69	573.10	569.19	565.02	560.64	556.10
27.00	DISCHG	551.43	546.67	541.83	536.95	532.02	527.07	522.11	517.14	512.17	507.21
28.00	DISCHG	502.26	497.32	492.41	487.52	482.66	477.83	473.03	468.26	463.52	458.83
29.00	DISCHG	454.17	449.54	444.96	440.42	435.91	431.45	427.03	422.65	418.31	414.01

TOTAL WATER, IN INCHES ON DRAINAGE AREA= .1892 CFS-HRS= 5656.85 ACRE-FT= 467.48

ENDCMP

:ND OF 1 JC[redacted]N THIS RUN

)END
)END IGNORED - IN CONTROL MODE

)FIN

RUNID: SCS04M ACCT: 1604000101 PROJECT: SCS04

***** DISPLAYED LOG ENTRY/RESOURCE UTILIZATION SECTION*****

TIME	CPU	IO	CCER	SIZE	QUALIFIER	FILENAME	PROGRAM	VERSION
00:01:38.593	00:00:17.955	00:00:24.421	00:00:08.778	59K	SCS76	ABS	TR20	CONVEX
09:45:16	-102SI FIN							
00:00:00.617	00:00:00.000	00:00:00.351	00:00:05.515	3K	RESOURCES USED IN CONTROL MODE			
00:01:39.201	00:00:17.955	00:00:24.773	00:00:14.293	53K	SUMMARY			

IMAGES READ: 182 PAGES: 112

START: 09:44:40 SEP 25,1985 FIN: 09:45:16 SEP 25,1985

***** COST SECTION *****

CHARGES BASED ON BATCH RUN AT L PRIORITY

RT ($000.61/MIN)	:$000001.00
CPU ($001.26/MIN)	:$000000.37
IO ($000.67/MIN)	:$000000.27
CCER($001.26/MIN)	:$000000.30

ESTIMATED TOTAL COST:	$000001.94
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