

BERNALILLO COUNTY

- ☒ NEW SUBMITTAL
☐ RESUBMITTAL
☐ FINAL SIGNOFF

TODAY'S DATE: 10/3/00

Use for all PWD applications EXCEPT Street Excavation

CASE NO: PWDN-154

OWNER

OWNER SCHWARTZMAN, INC

PHONE 294-5034

MAILING ADDRESS P.O. BOX 2227

CITY ABQ ZIP 87103

P-14/D4

AGENT

AGENT/CONTRACTOR

ISAACSON & ARFMAN, P.A.

PHONE 268-8828

MAILING ADDRESS 128 MONROE NE

CITY ABQ ZIP 87108

STATE LICENSE NO

EXP DATE

VOLUME

CLASS

ARCHITECT/ENGINEER FRED ARFMAN

LICENSE NO 7322

PHONE 268-8828

SITE INFORMATION

SITE ADDRESS / DIRECTIONS NW CORNER OF RIO BRAVO BLVD &

ZONE ATLAS NO: N-14/P-14

BROADWAY BLVD

LEGAL DESCRIPTION PARCELS C-3 + C-4, CLIFFORD METROPOLITAN CENTER, AND TRACTS

2A2, 2B2, 2B3, + 2A3A M.R.G.C.D. Map nos. 45 + 50

LOT SIZE: 147.82 ± Ac.

EXISTING BUILDING(S) AND USE: CROPLAND

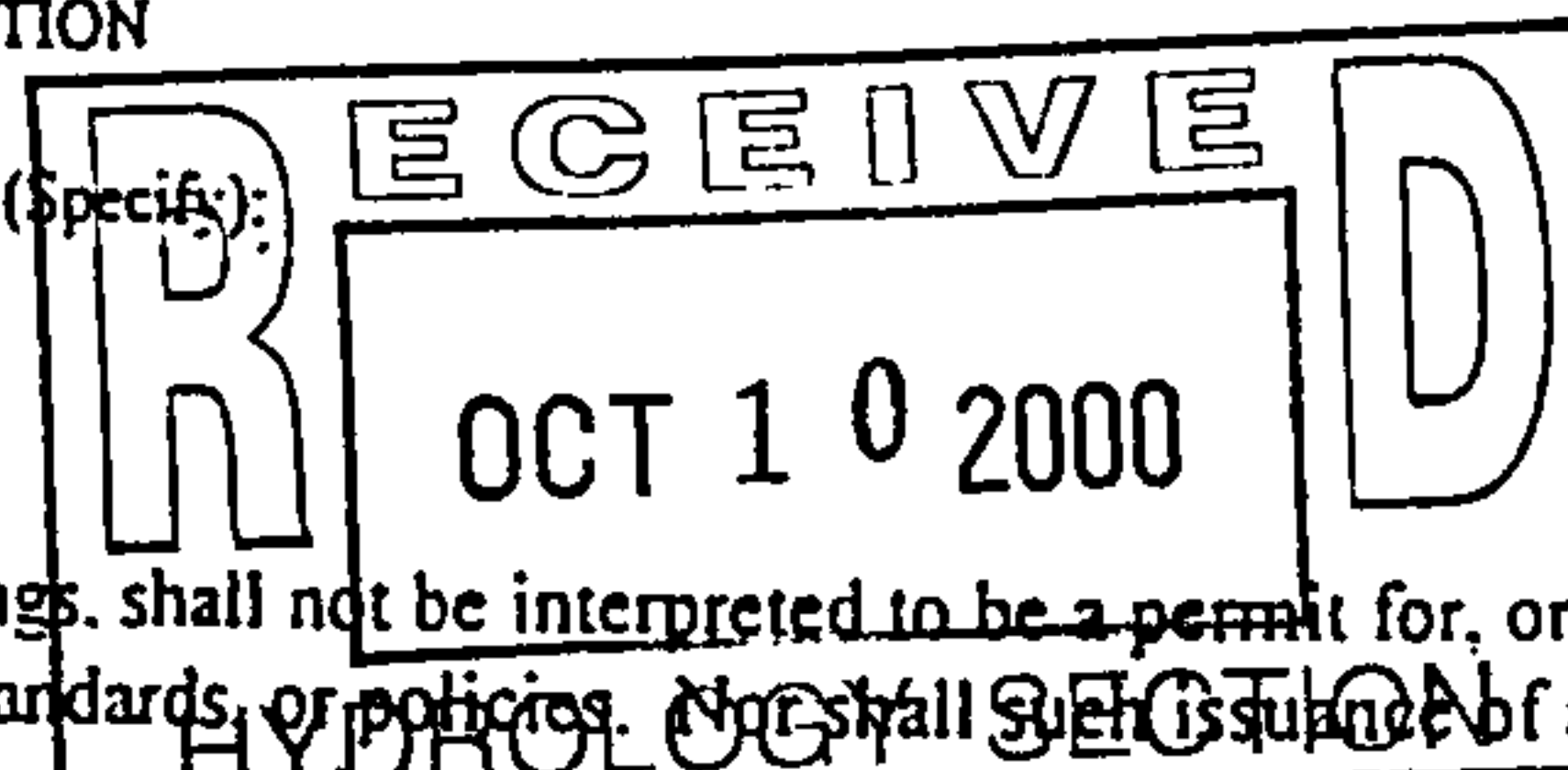
PROPOSED BUILDING(S): VARIOUS INDUSTRIAL

UPC

1-014-054-337-253-108-15
1 014 054 264 197 302 38

TYPE OF SUBMITTAL

- | | |
|---|--|
| ☐ REPLAT | ☐ TRAFFIC IMPACT ANALYSIS / TRAFFIC STUDY |
| ☐ MINOR SUBDIVISION | ☐ INFRASTRUCTURE LIST / DESIGN REVIEW |
| ☐ MAJOR SUBDIVISION | ☐ SPECIAL USE PERMIT |
| ☐ CONSTRUCTION DRAWINGS | ☐ BARRICADING PERMIT |
| ☒ GRADING & DRAINAGE PLAN | ☐ BUILDING PERMIT |
| ☐ AS-CONSTRUCTED GRADING & DRAINAGE PLAN | ☐ INSPECTION |
| ☐ VARIANCE REQUEST | ☐ OTHER (Specify): |
| ☐ LAND DIVISION | |



The issuance of a permit or a review or approval of plan specifications, computations, and shop drawings, shall not be interpreted to be a permit for, or an approval of any variance or violation of any of the provisions of any COUNTY or STATE codes, ordinances, standards, or policies. Nor shall such issuance of a permit or approval of plans, specifications, computations, and shop drawings prevent any authorized COUNTY representative or COUNTY Inspector from thereafter requiring the correction of errors in said plans, specifications, computations, or shop drawings or from stopping construction operations which are being carried on thereunder when in violation of any COUNTY or STATE codes, ordinances, standards, or policies.

☐ Owner ☒ Agent ☐ Contractor

Signature

Ginevieve Dat

Date

10/3/00

COUNTY

BERNALILLO COUNTY USE ONLY

C.R.'s

TOTAL FEE.

Receipt No.:

Received By:

County of Bernalillo

State of New Mexico

BOARD OF COUNTY COMMISSIONERS

BARBARA J. SEWARD, CHAIR
DISTRICT 4
TOM RUTHERFORD, VICE CHAIR
DISTRICT 3
KEN SANCHEZ, MEMBER
DISTRICT 1
STEVE D. GALLEGOS, MEMBER
DISTRICT 2
LES HOUSTON, MEMBER
DISTRICT 5
JUAN R. VIGIL, COUNTY MANAGER



MARK CARRILLO, ASSESSOR
JUDY D. WOODWARD, CLERK
IRA ROBINSON, PROBATE JUDGE
JOE BOWDICH, SHERIFF
ORLANDO VIGIL, TREASURER

2400 BROADWAY, S.E.
ALBUQUERQUE, NEW MEXICO 87102
PUBLIC WORKS (505) 848-1500

January 3, 2001

Fred Arfman, PE
Isaacson & Arfman
128 Monroe NE
Albuquerque, NM 87108

**Re: Schwartzman Industrial Center Drainage Master Plan
Engineer's Stamp dated 9-29-00, (P14/D4) PWDN 154**

Dear Mr. Arfman,

Based upon the information provided in your submittal dated 10-10-00, the above referenced Master Drainage Plan cannot be approved until the following comments are addressed.

- The offsite runoff and volumes from basins 100, 110 and 120 should be considered as developed and be managed in your plan. Please describe how this will occur (i.e. will they be ponded or allowed free discharge, and will this conveyance be by sheet flow or a controlled access point). You show existing culverts but will need to provide calculations to determine what capacity they contain.
- Please provide information on who will be responsible for the CLOMR/LOMR required to develop this property. The onus should be on the present owner.
- Please provide detailed information on your exhibits (i.e. flow rates, conveyance points, which pond(s) is public, etc). Descriptions of the ponds in the report should match the exhibits. Also, please show the existing shopping center impacted by basin 320.
- By limiting all basins to 4.41 cfs/acre, you are requiring the designer of each site to possibly pond their runoff. Since you have regional public ponding planned, it would be prudent to design for fully developed runoff.

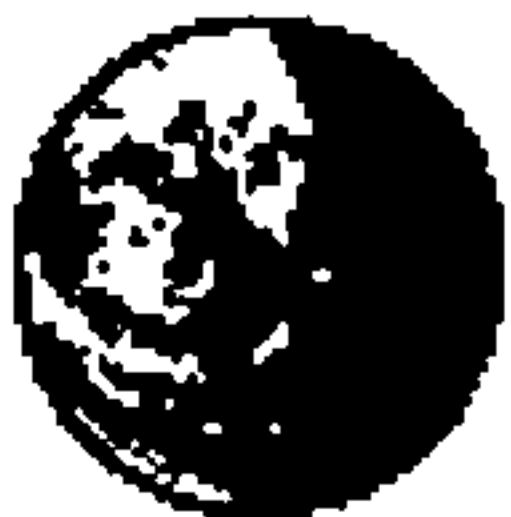
If you have any questions about my comments, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham
Bradley L. Bingham, PE
City/County Floodplain Administrator (Acting)

PWDN 154

C: Brian Kent, BCPW
file



Brian Kent
<bkent@mercury.bern
co.gov>

10/20/00 09:31 AM

To: "Brad Bingham" <bbingham@cabq.gov>

cc: Brad Catanach <bradc@mercury.bernco.gov>

Subject: PWDN # 154

Brad,

These are B.C.P.W. comments for PWDN # 154.

This plan, as preliminary design analysis, is approvable, however, future development of these three tracts will require complete and approved Grading and Drainage plans that are integral with this Drainage Master plan prior to issuing building permits. Reference this Grading and Drainage plan (PWDN # 154) with subsequent G & D's submitted for development of these tracts.

I want to explain that this plan does not have the detail we would require for approval under normal circumstances. The engineer wanted to show the over all drainage analysis that would be used as this property gets developed. The northern most tract is where the United States Post Office plans on putting a sorting facility which is important to the county. The engineer is working on the plans for the road but design of the tracts will be the responsibility of developers including the USPS.

We would like to get your comments regarding the floodplains even though this analysis is not complete.

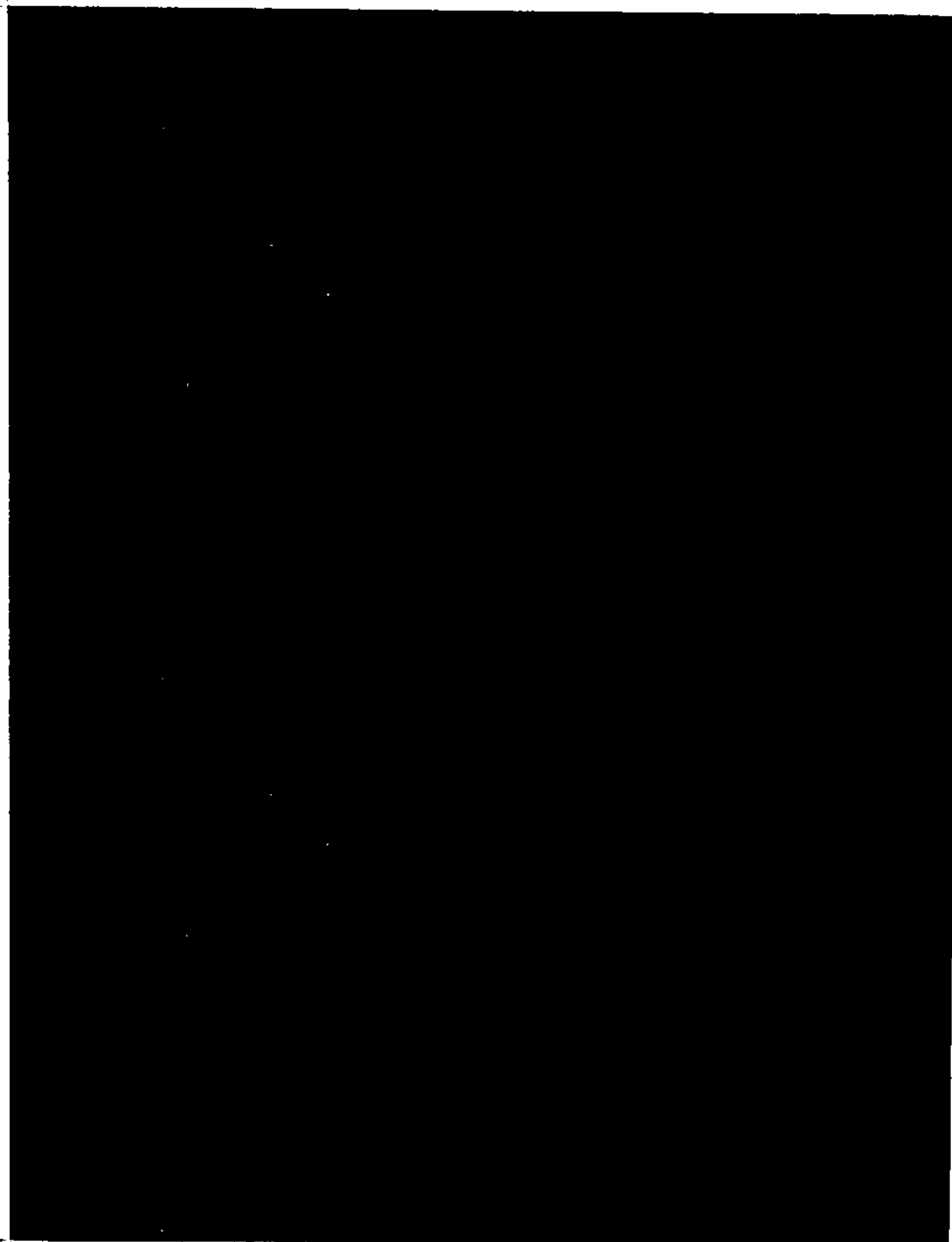
Give me a call if you have any questions.

Brian Kent 848-1513

Legal: Parcels C-3 and C-4 Clifford Metropolitan Center and tracts 2A2, 2B2, 2B3, and 2A3A MRGCD Map # 45 and 50

owner : Schwartzman Inc.

Engineer : Isaacson Arfman



DRAINAGE MASTER PLAN

FOR

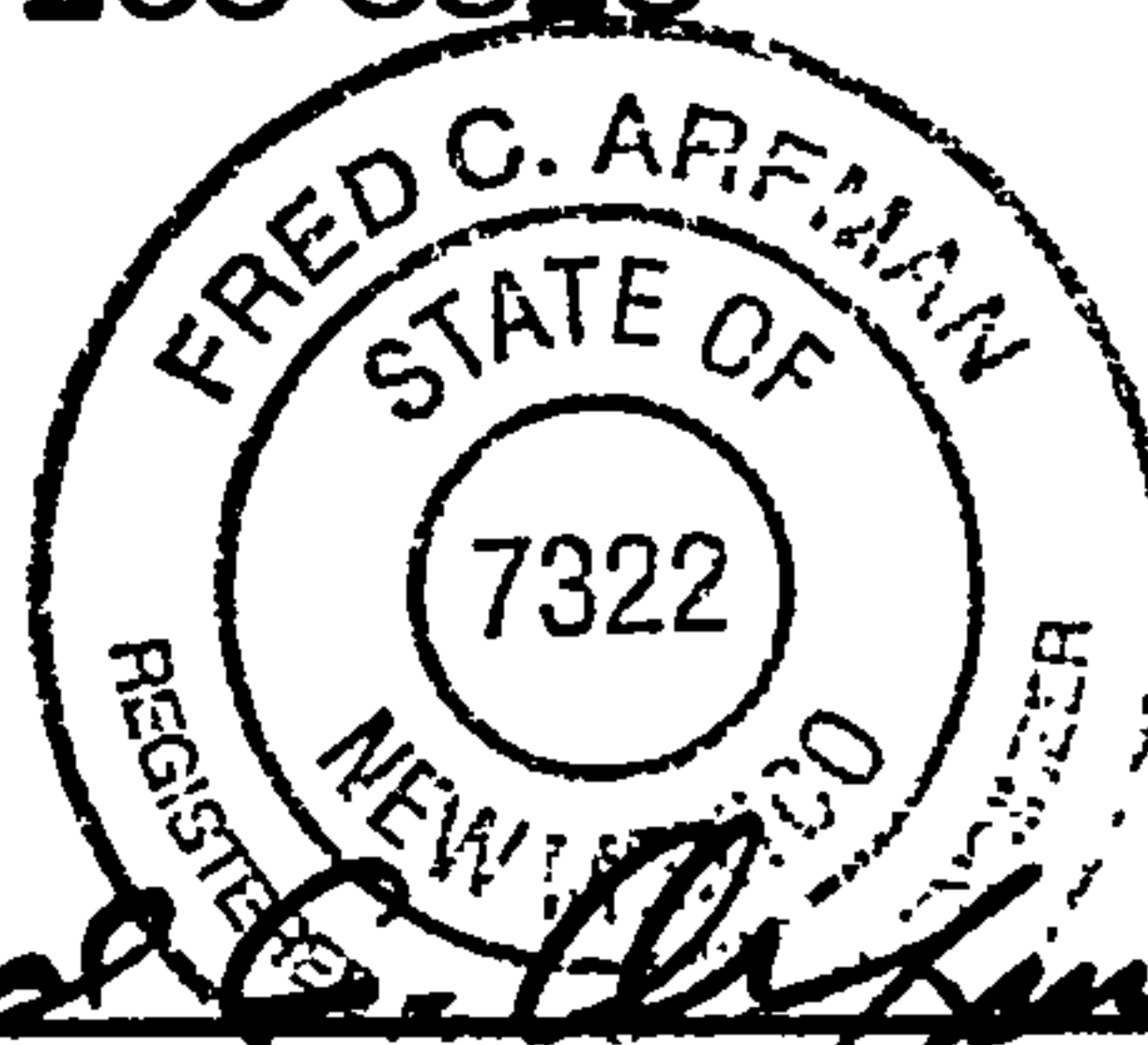
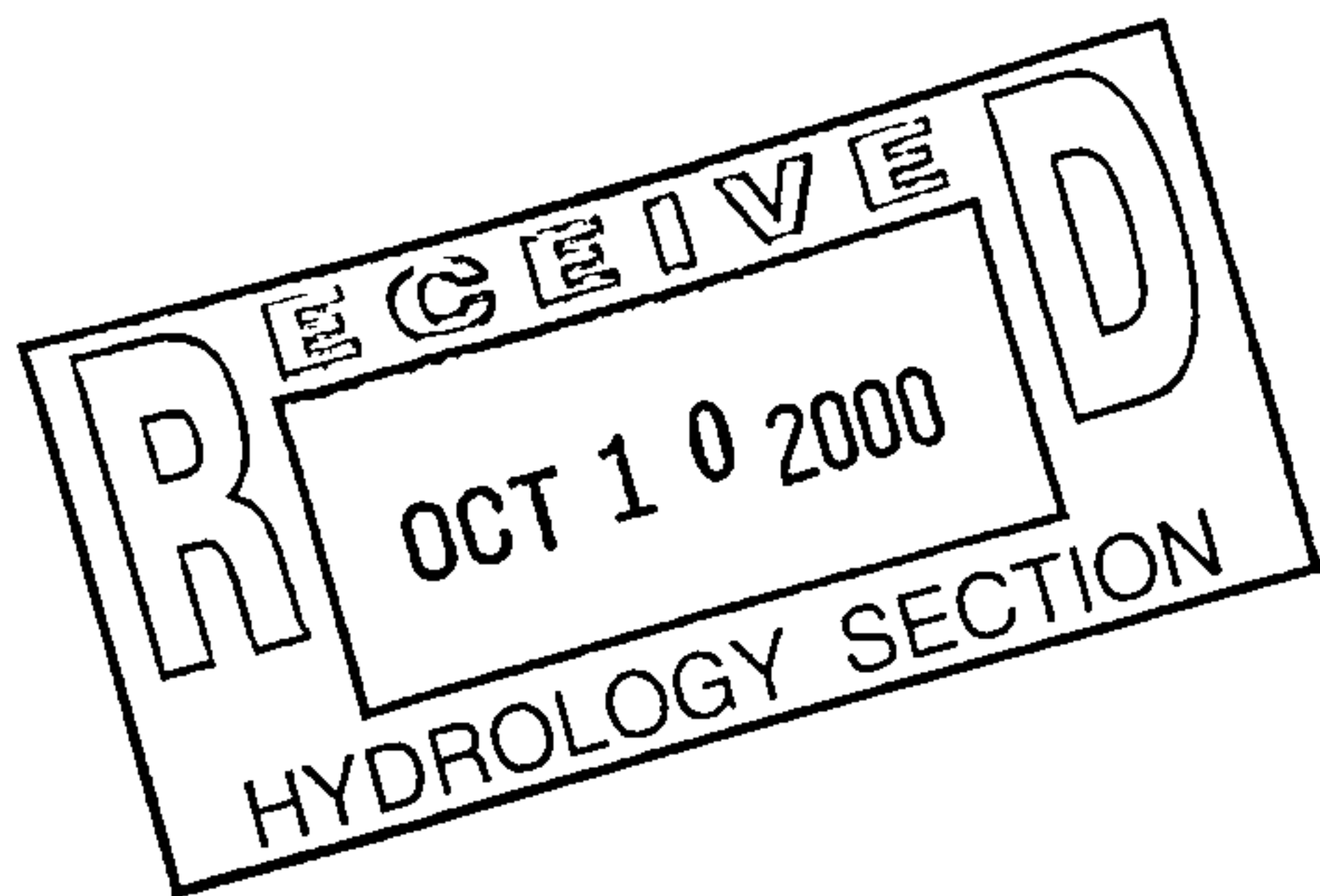
**SCHWARTZMAN
INDUSTRIAL CENTER**

A 3 TRACT INDUSTRIAL SUBDIVISION

**ALBUQUERQUE, NEW MEXICO
SEPTEMBER 2000**

Prepared by:

**ISAACSON & ARFMAN, P.A.
128 Monroe Street, NE
Albuquerque, NM 87108
(505) 268-8828**



Fred C. Arfman, PE

Date

09.21.00

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Appendix B: AHYMO Summary & Detailed Output for Proposed Conditions during the 100-Year Storm

**Appendix C: FlowMaster Worksheets for Channel Capacity
FlowMaster Worksheet for Culvert Capacity
Excel Worksheet for Future Prince Road Flow Capacity Calculations**

Appendix D: Bureau of Reclamation Memo Regarding Applications to Discharge Urban Storm Water Drainage into Existing Reclamation Facilities dated April 8, 1996

Pockets

Drainage Master Plan (Plates 1 – 3)

I. PROJECT INFORMATION

LEGAL DESCRIPTION: Parcels C-3 and C-4, Clifford Metropolitan Center,
and Tracts 2A2, 2B2, 2B3, & 2A3A M.R.G.C.D. Map nos. 45 & 50

PROPOSED LEGAL DESCRIPTION: Tracts A, B, & C, Schwartzman
Industrial Center

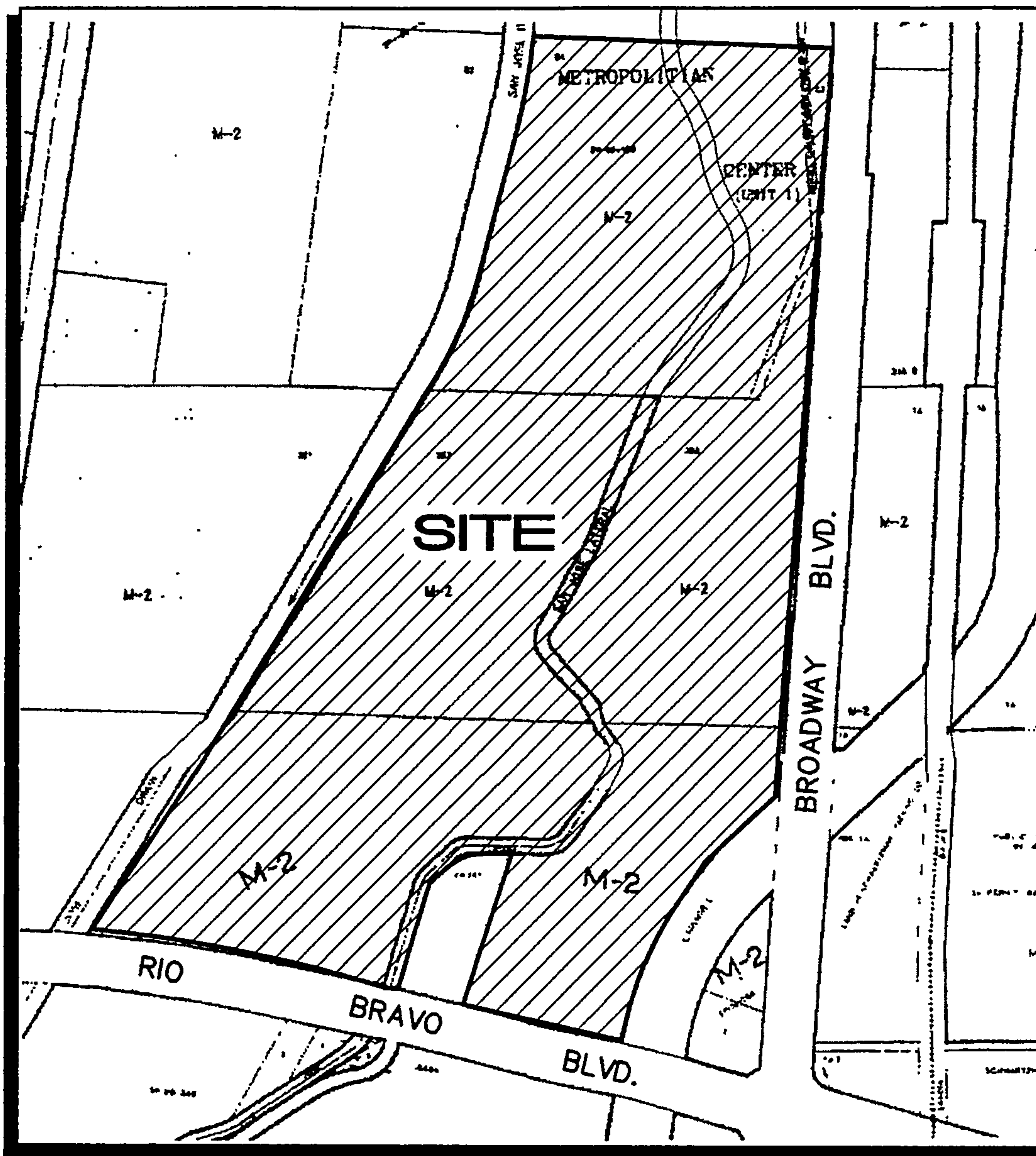
ENGINEER: Isaacson & Arfman, P.A.
128 Monroe Street NE
Albuquerque, NM 87108
(505) 268-8828
Attn: Fred C. Arfman

SURVEYOR: Wayjohn Surveying Inc.
330 Louisiana NE
Albuquerque, NM 87108-2602
(505) 255-2052
Attn: Thomas Johnson, NMPLS No. 14269

BENCHMARK: ACS monument "SDC 8-1"
Elevation = 4978.12

TOTAL AREA: 147.8189 Acres

FLOOD PLAIN: Portions of this site are within the 100-year flood plain
Zone AH as designated on panels 342 and 344 of 825 of the FEMA
Flood Insurance Rate Maps dated September 20, 1996

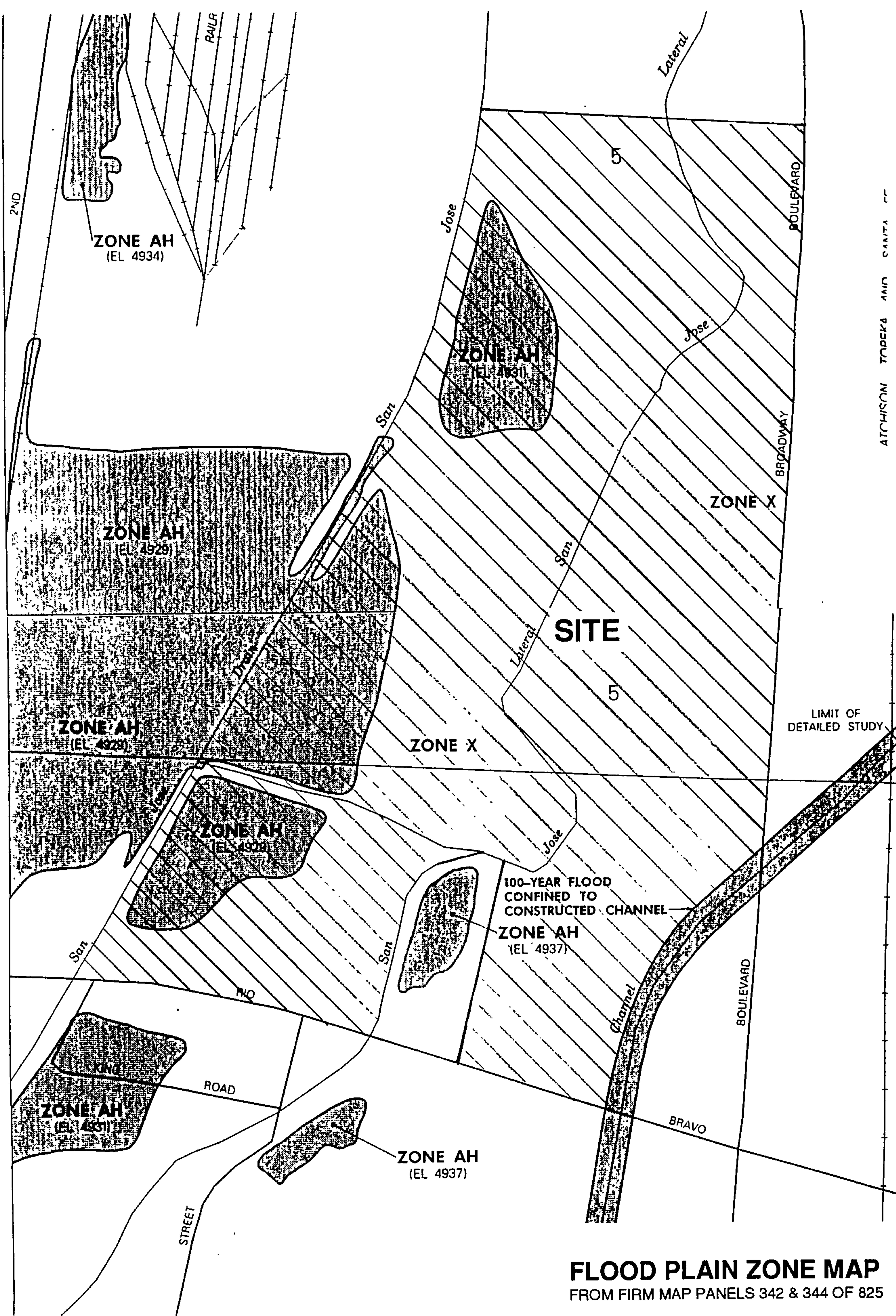


N-14 / P-14

1"=750'±

VICINITY MAP

35°01'52"



FLOOD PLAIN ZONE MAP
FROM FIRM MAP PANELS 342 & 344 OF 825

II. SITE CHARACTERISTICS

EXISTING CONDITIONS: This site is a large area with several existing uses.

The western, flatter portions of the property are either fallow or farmed cropland. These portions have little to no slope, except where abandoned irrigation ditches crosses the fields. The steeper eastern areas are undeveloped, with native shrubs and grasses, and slopes varying from about 2% to 40%. The northwest portion of the site has been graded for "Mudd Volleyball" pits and parking in recent years.

The property is bounded to the south by Rio Bravo Blvd, to the east by Broadway Blvd, and to the west by the San Jose Drain. The former San Jose Lateral crosses the property in an approximately north-south direction, and AMAFCA's South Diversion Channel creates the southeast boundary of the site. (See Plates 1, 2 & 3 enclosed.)

There is an out-parcel along the south side of the property, Tract 2A3A1, M.R.G.C.D. Map 50 with a small existing shopping center. Flows of 20.7 cfs cross into that site from Basin 320 to the east.

There are several off-site basins to consider with this property.

East of Broadway Blvd are Basins 100, 110, & 120, which generate 11.2 cfs, 32.1 cfs, and 29.9 cfs of flow respectively. The water crosses beneath Broadway Blvd through several RCP culverts, and is released to sheet across the property. Basins 100 & 110 discharge to Basin 200, and Basin 120 discharges to Basin 300.

To the north is the Albuquerque Auto Auction (Basin 201). At the southwest corner of the Auto Auction is a large retention pond. This

Not Developed

pond has historically been given access for up to 215,379 cu. ft., approximately 81.1 cfs, of overflow stormwater to pond on the proposed Master Plan area. (From the "Grading & Drainage Plan For Albuquerque Auto Auction" by Santiago Romero, Jr. & Assoc. dated 1/4/89, BC PWD file No. 89-17.)

PROPOSED CONDITIONS: The property will be subdivided into industrial or commercial tracts of varying size, with individual grading & drainage plans required for each tract. Tract A is proposed to have an USPS distribution center. Prince Rd shall be extended north from Rio Bravo Blvd, ending in a cul-de-sac south of the USPS site.

This plan divides the property into 4 drainage basins (see enclosed Drainage Master Plan plates). Basin 200 is the proposed Tract A in the northern section of the site. Offsite flows of 11.2 cfs and 32.1 cfs from Basins 100 & 110 respectively enter Basin 200 from across Broadway Blvd. Offsite flows of 29.9 cfs from Basin 120 and 81.1 cfs from Basin 201 (the Albuquerque Auto Auction pond) are routed into Basin 300. Basin 310 is the southern portion of the site, and accounts for the majority of the water onsite. Basin 320 is the area east of the out-parcel at Tract 2A3A1.

Land treatments of 5% Type B, 10% Type C, and 85% Type D are assumed for most basins. Pond sizes and flows were calculated using the AHYMO program.

Exhibit shows basin 200
BASIN 200: An USPS site is proposed for this basin. An individual drainage plan will be required for the USPS site. Assuming 65%^{why} Type D land treatment, this basin will accept and generate a total of 235.7 cfs of flows (0.85 ac-ft).

Because excess stormwater from the offsite Albuquerque Auto Auction pond is historically discharged to this property, a channel

will be required to transport 81.1 cfs (215,379 cu. ft.) of overflow across the west boundary of the property to the onsite ponds or regional public pond in Basin 300. The drainage solution in this report for ~~handling~~ the overflow storm water from the Albuquerque Auto Auction (Tracts C-1 and C-2) shall supercede existing arrangements between private owners for the handling of said storm waters.

BASIN 300: A storm water detention pond (Pond A) is programmed to be a public facility on private land, and is to be maintained by Bernalillo County. The pond shall have a capacity of 11.58 ac-ft plus 1' of freeboard (including 4.94 Ac-ft from the Auto Auction), and be located west of Prince Rd near the cul-de-sac. Pond A will accept the combined stormwater from Basins 300, 201, & 120. Culvert pipes of sufficient size to drain the pond within 24 hours will outlet to the San Jose Drain, which has storm water acceptance criteria established for the drain by the Bureau of Reclamation. Storm water discharge to the San Jose Drain is allowed per the memo dated April 8, 1996 found in Appendix D.

Not by
developers
+ through

A 40' wide channel carries excess stormwater volumes from the Albuquerque Auto Auction pond across the back of the proposed USPS site. A (42") RCP will convey the water under the Prince Rd cul-de-sac and into pond A. (See calculation in Appendix C.)

Parcels built within this basin shall limit developed flows to 4.41 cfs/acre. Flows from Basin 120 shall be routed west across the site to the pond. All offsite flows entering the individual parcels should be directed across the site towards the detention pond.

BASIN 310: a storm water detention pond (Pond B) is programmed to be a public facility on private land, and is to be maintained by Bernalillo County. The pond shall have a capacity of 8.74 ac-ft plus 1' of freeboard and be located west of Prince Rd near the 100' PNM easement. Existing power lines in the area will not be disturbed, but ponding may occur under them. Culvert pipes of sufficient size to drain the pond within 24 hours will outlet to the San Jose Drain, which is a Bureau of Reclamation facility. Storm water discharge to the Bureau of Reclamation drain is allowed per the memo dated April 8, 1996 shown in Appendix D.

Parcels built within this basin shall limit developed flows to 4.41 cfs/acre. Offsite flows entering the individual parcels should be directed across the site towards the detention pond.

BASIN 320: This basin is located uphill of an existing shopping center ^{Shaw} and has no direct access to a drainage facility, therefore measures will be taken to protect the existing facility from increased flows. A pond needs to be constructed, either within Basin 320, or

alternately at the southwest corner of Basin 310 if land is available. The detention pond will need to have a capacity of 1.69 ac-ft plus 1' for freeboard.

If the pond is built outside Basin ³¹⁰~~320~~, an outfall pipe of sufficient size to drain the pond within 24 hours will be required. The pipe directs flows to the San Jose Drain.

If the pond is built within Basin 320, a storm sewer system will be necessary. The storm sewer would most likely travel along the north side of Rio Bravo Blvd, however alternative routes may be designed. Culvert pipes of sufficient size to drain the pond within 24 hours will outlet to the San Jose Drain.

Parcels built within this basin shall limit developed flows to 4.41 cfs/acre.

III. SUMMARY & RECOMMENDATIONS

Future development of individual parcels will require separate drainage plans for each developed tract per the following recommendations:

BASIN 200:

- A drainage plan will be required for the proposed USPS major distribution facility.
- 215,379 cu. ft. of offsite storm waters from the Albuquerque Auto Auction to the north must be allowed to cross onto the site. It shall either be detained in ponds within Basin 200, or conveyed to Pond A in Basin 300.

What
is
the

BASIN 300:

- Detention Pond A will be built to accept a minimum of 11.58 Ac-ft of storm water.
- The detention pond will be privately owned, but maintained by Bernalillo County.
- 215,379 cu. ft. of offsite storm waters from the Albuquerque Auto Auction to the north shall either be retained in ponds within Basin 200, or conveyed to Pond A in Basin 300.
- Developed flows exiting parcels within this basin should be limited to 4.41^{how} cfs/acre.
- Offsite flows must be accepted onto each developed tract, but may cross the site and be freely released. ~~to~~

Decide

BASIN 310:

- Detention Pond B will be built land to accept a minimum of 8.74 Ac-

ft of storm water.

- The detention pond will be privately owned, but maintained by Bernalillo County.
- Power lines within an existing 100' PNM easement shall not be disturbed.
- Developed flows exiting parcels within this basin should be limited to 4.41 cfs/acre.
- Offsite flows must be accepted onto each developed tract, but may cross the site and be freely released.

BASIN 320:

- A detention pond will be built land to accept a minimum of 1.69 Ac-ft of storm water. It may be located within Basin 320, or at the southwest corner of Basin 310.
- The detention pond will be privately owned, but maintained by Bernalillo County.
- If the pond is built within Basin 310, storm water will need to be conveyed to the pond along the north side of Rio Bravo Blvd.
- If the pond is built within Basin 320, a storm drain leading from the pond will be required.
- Developed flows exiting parcels within this basin should be limited to 4.41 cfs/acre.
- Offsite flows must be accepted onto each developed tract, but may cross the site and be freely released.

Appendix A

AHYMO Summary & Detailed Output for Existing Conditions during the 100-year Storm

AHYMO SUMMARY TABLE (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
 INPUT FILE = C:\AHYMO\SCHWARTZ\105UNDEV.DAT

RUN DATE (MON/DAY/YR) =09/08/2000
 USER NO.= ISCARFNM.I01

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1	NOTATION	

*S											**	
*S	SCHWARTZMAN PROPERTIES										**	
*S	DRAINAGE MASTER PLAN										**	
*S	EXISTING UNDEVELOPED CONDITIONS										**	
*S											**	

START											TIME=	.00
RAINFALL TYPE= 1											RAIN6=	2.320
*S BASIN 100												
COMPUTE NM HYD	100.00	-	1	.00978	11.17	.330	.63329	1.533	1.785	PER IMP=	5.00	
*S BASIN 110												
COMPUTE NM HYD	110.00	-	2	.02811	32.08	.949	.63329	1.533	1.783	PER IMP=	5.00	
*S BASIN 200												
COMPUTE NM HYD	200.00	-	10	.07602	114.01	3.240	.79909	1.533	2.343	PER IMP=	.00	
ADD HYD	200.10	1&10	11	.08580	125.18	3.570	.78019	1.533	2.280			
ADD HYD	200.20	2&11	12	.11391	157.26	4.519	.74393	1.533	2.157			
*S BASIN 120												
COMPUTE NM HYD	120.00	-	20	.03049	29.92	.850	.52255	1.533	1.533	PER IMP=	.00	
*S BASIN 300												
COMPUTE NM HYD	300.00	-	30	.07088	74.52	2.098	.55510	1.533	1.643	PER IMP=	.00	
ADD HYD	300.10	20&30	31	.10137	104.44	2.948	.54530	1.533	1.610			
*S BASIN 201												
COMPUTE NM HYD	201.00	-	40	.06605	155.37	5.369	1.52404	1.500	3.675	PER IMP=	55.00	
*S AUTO AUCTION DETENTION POND												
ROUTE RESERVOIR	201.10	40	41	.06605	80.40	5.369	1.52403	1.667	1.902	AC-FT=	5.153	
ADD HYD	300.20	30&41	32	.13693	136.67	7.467	1.02247	1.567	1.560			
*S BASIN 310												
COMPUTE NM HYD	310.00	-	50	.09288	98.73	2.750	.55510	1.533	1.661	PER IMP=	.00	
*S BASIN 320												
COMPUTE NM HYD	320.00	-	52	.01974	20.67	.584	.55510	1.533	1.636	PER IMP=	.00	
FINISH												

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
RUN DATE (MON/DAY/YR) = 09/08/2000
START TIME (HR:MIN:SEC) = 15:16:23 USER NO.= ISCARFNM.I01
INPUT FILE = C:\AHYMO\SCHWARTZ\105UNDEV.DAT

```
*S*****
*S
*S          SCHWARTZMAN PROPERTIES
*S          DRAINAGE MASTER PLAN
*S          EXISTING UNDEVELOPED CONDITIONS
*S
*S*****
***
***          105UNDEV.DAT
***          SEPTEMBER 8, 2000    GLD
***
*****
```

START RAINFALL BEGINS AT 0.0 HRS
RAINFALL TYPE=1 RAIN QUARTER=0 RAIN ONE=2.01
RAIN SIX=2.32 RAIN DAY=2.69 DT=0.03333HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
DT = .033330 HOURS END TIME = 5.999400 HOURS

.0000	.0013	.0027	.0041	.0055	.0070	.0085
.0100	.0116	.0132	.0149	.0166	.0183	.0201
.0220	.0239	.0258	.0279	.0299	.0321	.0343
.0367	.0391	.0416	.0442	.0470	.0498	.0529
.0560	.0594	.0629	.0685	.0744	.0808	.0944
.1249	.1718	.2392	.3312	.4522	.6064	.7984
1.0327	1.2502	1.3411	1.4178	1.4860	1.5480	1.6052
1.6582	1.7078	1.7542	1.7980	1.8392	1.8782	1.9151
1.9500	1.9831	2.0146	2.0444	2.0728	2.0790	2.0849
2.0904	2.0956	2.1006	2.1053	2.1099	2.1143	2.1185
2.1226	2.1266	2.1304	2.1341	2.1376	2.1411	2.1445
2.1478	2.1510	2.1541	2.1572	2.1602	2.1631	2.1659
2.1687	2.1714	2.1741	2.1767	2.1793	2.1818	2.1843
2.1867	2.1891	2.1914	2.1938	2.1960	2.1983	2.2004
2.2026	2.2047	2.2068	2.2089	2.2110	2.2130	2.2149
2.2169	2.2188	2.2207	2.2226	2.2245	2.2263	2.2281
2.2299	2.2317	2.2334	2.2352	2.2369	2.2386	2.2402
2.2419	2.2435	2.2451	2.2467	2.2483	2.2499	2.2515
2.2530	2.2545	2.2560	2.2575	2.2590	2.2605	2.2619
2.2634	2.2648	2.2662	2.2676	2.2690	2.2704	2.2718
2.2731	2.2745	2.2758	2.2771	2.2784	2.2797	2.2810
2.2823	2.2836	2.2848	2.2861	2.2873	2.2886	2.2898
2.2910	2.2922	2.2934	2.2946	2.2958	2.2970	2.2981
2.2993	2.3005	2.3016	2.3027	2.3039	2.3050	2.3061
2.3072	2.3083	2.3094	2.3105	2.3116	2.3126	2.3137
2.3148	2.3158	2.3169	2.3179	2.3190	2.3200	

*S BASIN 100
* OFFSITE BASIN
* EAST OF BROADWAY, ACROSS FROM NORTH END OF USPS SITE

COMPUTE NM HYD ID=1 HYD NO=100.00 AREA=0.009778 SQ MI
PER A=85 PER B=5 PER C=5 PER D=5
TP=-0.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 1.9302 CFS UNIT VOLUME = .9933 B = 526.28 P60 = 2.0100
AREA = .000489 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .155903HR TP = .133300HR K/TP RATIO = 1.169566 SHAPE CONSTANT, N = 3.032323
UNIT PEAK = 19.822 CFS UNIT VOLUME = .9991 B = 284.45 P60 = 2.0100
AREA = .009289 SQ MI IA = .62632 INCHES INF = 1.60368 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 100.00

RUNOFF VOLUME = .63329 INCHES = .3303 ACRE-FEET
PEAK DISCHARGE RATE = 11.17 CFS AT 1.533 HOURS BASIN AREA = .0098 SQ. MI.

*S BASIN 110
* OFFSITE BASIN
* EAST OF BROADWAY, ACROSS FORM MAJORITY OF USPS SITE

COMPUTE NM HYD ID=2 HYD NO=110.00 AREA=0.02811 SQ MI
PER A=85 PER B=5 PER C=5 PER D=5
TP=-0.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 5.5490 CFS UNIT VOLUME = .9973 B = 526.28 P60 = 2.0100
AREA = .001406 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .155903HR TP = .133300HR K/TP RATIO = 1.169566 SHAPE CONSTANT, N = 3.032323
UNIT PEAK = 56.984 CFS UNIT VOLUME = .9995 B = 284.45 P60 = 2.0100
AREA = .026705 SQ MI IA = .62632 INCHES INF = 1.60368 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=2 CODE=1

PARTIAL HYDROGRAPH 110.00

RUNOFF VOLUME = .63329 INCHES = .9494 ACRE-FEET
PEAK DISCHARGE RATE = 32.08 CFS AT 1.533 HOURS BASIN AREA = .0281 SQ. MI.

*S BASIN 200
* USPS SITE

COMPUTE NM HYD ID=10 HYD NO=200.00 AREA=0.07602 SQ MI
PER A=0 PER B=90 PER C=10 PER D=0
TP=-0.1333 HR MASS RAIN=-1

K = .128805HR TP = .133300HR K/TP RATIO = .966278 SHAPE CONSTANT, N = 3.655921
UNIT PEAK = 189.07 CFS UNIT VOLUME = 1.000 B = 331.54 P60 = 2.0100
AREA = .076020 SQ MI IA = .48500 INCHES INF = 1.20800 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=10 CODE=1

PARTIAL HYDROGRAPH 200.00

RUNOFF VOLUME = .79909 INCHES = 3.2398 ACRE-FEET
PEAK DISCHARGE RATE = 114.01 CFS AT 1.533 HOURS BASIN AREA = .0760 SQ. MI.

* ADD OFFSITE BASIN 100 TO USPS SITE

ADD HYD ID=11 HYD NO=200.10 ID=1 ID=10
PRINT HYD ID=11 CODE=1

PARTIAL HYDROGRAPH 200.10

RUNOFF VOLUME = .78019 INCHES = 3.5700 ACRE-FEET
PEAK DISCHARGE RATE = 125.18 CFS AT 1.533 HOURS BASIN AREA = .0858 SQ. MI.

* ADD OFFSITE BASIN 110 TO USPS SITE

ADD HYD ID=12 HYD NO=200.20 ID=2 ID=11
PRINT HYD ID=12 CODE=1

PARTIAL HYDROGRAPH 200.20

RUNOFF VOLUME = .74393 INCHES = 4.5194 ACRE-FEET
PEAK DISCHARGE RATE = 157.26 CFS AT 1.533 HOURS BASIN AREA = .1139 SQ. MI.

*S BASIN 120
* OFFSITE BASIN
* EAST OF BROADWAY, NORTH AND WEST OF AMAFCA DIVERSION CHANNEL

COMPUTE NM HYD ID=20 HYD NO=120.00 AREA=0.03049 SQ MI
PER A=100 PER B=0 PER C=0 PER D=0
TP=-0.1333 HR MASS RAIN=-1

K = .160154HR TP = .133300HR K/TP RATIO = 1.201459 SHAPE CONSTANT, N = 2.957910
UNIT PEAK = 63.673 CFS UNIT VOLUME = .9995 B = 278.37 P60 = 2.0100
AREA = .030490 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=20 CODE=1

PARTIAL HYDROGRAPH 120.00

RUNOFF VOLUME = .52255 INCHES = .8497 ACRE-FEET
PEAK DISCHARGE RATE = 29.92 CFS AT 1.533 HOURS BASIN AREA = .0305 SQ. MI.

*S BASIN 300
 * PROPOSED BASIN SOUTH OF USPS SITE

COMPUTE NM HYD ID=30 HYD NO=300.00 AREA=0.070879 SQ MI
 PER A=90 PER B=05 PER C=05 PER D=0
 TP=-0.1333 HR MASS RAIN=-1

K = .155165HR TP = .133300HR K/TP RATIO = 1.164032 SHAPE CONSTANT, N = 3.045747
 UNIT PEAK = 151.82 CFS UNIT VOLUME = .9997 B = 285.53 P60 = 2.0100
 AREA = .070879 SQ MI IA = .62750 INCHES INF = 1.60700 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=30 CODE=1

HYDROGRAPH FROM AREA 300.00

RUNOFF VOLUME = .55510 INCHES = 2.0984 ACRE-FEET
 PEAK DISCHARGE RATE = 74.52 CFS AT 1.533 HOURS BASIN AREA = .0709 SQ. MI.

* ADD OFFSITE BASIN 120 TO BASIN 300

ADD HYD ID=31 HYD NO=300.10 ID=20 ID=30
 PRINT HYD ID=31 CODE=1

HYDROGRAPH FROM AREA 300.10

RUNOFF VOLUME = .54530 INCHES = 2.9481 ACRE-FEET
 PEAK DISCHARGE RATE = 104.44 CFS AT 1.533 HOURS BASIN AREA = .1014 SQ. MI.

*S BASIN 201
 * OFFSITE BASIN
 * ALBUQUERQUE AUTO AUCTION OVERFLOW QUANTITIES

COMPUTE NM HYD ID=40 HYD NO=201.00 AREA=0.06605 SQ MI
 PER A=10 PER B=15 PER C=20 PER D=55
 TP=-0.1333 HR MASS RAIN=-1

K = .072691HR TP = .133300HR K/TP RATIO = .545316 SHAPE CONSTANT, N = 7.101167
 UNIT PEAK = 143.36 CFS UNIT VOLUME = .9993 B = 526.03 P60 = 2.0100
 AREA = .036328 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .127166HR TP = .133300HR K/TP RATIO = .953980 SHAPE CONSTANT, N = 3.704526
 UNIT PEAK = 74.689 CFS UNIT VOLUME = 1.000 B = 334.96 P60 = 2.0100
 AREA = .029723 SQ MI IA = .46667 INCHES INF = 1.15667 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=40 CODE=1

PARTIAL HYDROGRAPH 201.00

RUNOFF VOLUME = 1.52404 INCHES = 5.3686 ACRE-FEET
 PEAK DISCHARGE RATE = 155.37 CFS AT 1.500 HOURS BASIN AREA = .0661 SQ. MI.

*S AUTO AUCTION DETENTION POND

ROUTE RESERVOIR ID=41 HYD NO=201.1 INFLOW ID=40 CODE=1
 OUTFLOW(CFS) STORAGE(AF) ELEV(FT)
 0.0 3.122953 31
 20.0 4.087295 32
 81.11 5.165280 33

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)					
					.37	.00	31.00	3.123	.00
					.40	.00	31.00	3.123	.00
					.43	.00	31.00	3.123	.00
					.47	.00	31.00	3.123	.00
.00	.00	31.00	3.123	.00	.50	.00	31.00	3.123	.00
.03	.00	31.00	3.123	.00	.53	.00	31.00	3.123	.00
.07	.00	31.00	3.123	.00	.57	.00	31.00	3.123	.00
.10	.00	31.00	3.123	.00	.60	.00	31.00	3.123	.00
.13	.00	31.00	3.123	.00	.63	.00	31.00	3.123	.00
.17	.00	31.00	3.123	.00	.67	.00	31.00	3.123	.00
.20	.00	31.00	3.123	.00	.70	.00	31.00	3.123	.00
.23	.00	31.00	3.123	.00	.73	.00	31.00	3.123	.00
.27	.00	31.00	3.123	.00	.77	.00	31.00	3.123	.00
.30	.00	31.00	3.123	.00	.80	.00	31.00	3.123	.00
.33	.00	31.00	3.123	.00	.83	.00	31.00	3.123	.00

.87	.00	31.00	3.123	.00
.90	.00	31.00	3.123	.00
.93	.00	31.00	3.123	.00
.97	.00	31.00	3.123	.00
1.00	.00	31.00	3.123	.00
1.03	.00	31.00	3.123	.00
1.07	.00	31.00	3.123	.00
1.10	.00	31.00	3.123	.00
1.13	.00	31.00	3.123	.00
1.17	.07	31.00	3.123	.00
1.20	1.19	31.00	3.125	.04
1.23	4.92	31.01	3.133	.20
1.27	11.80	31.03	3.155	.66
1.30	21.33	31.08	3.197	1.54
1.33	34.43	31.15	3.268	3.00
1.37	53.62	31.26	3.378	5.28
1.40	79.69	31.43	3.542	8.69
1.43	111.11	31.68	3.774	13.51
1.47	140.64	31.99	4.075	19.75
1.50	155.37	32.29	4.403	37.92
1.53	149.89	32.57	4.696	54.53
1.57	131.87	32.77	4.917	67.04
1.60	111.70	32.90	5.057	74.97
1.63	94.82	32.97	5.129	79.07
1.67	81.65	32.99	5.153	80.40
1.70	71.44	32.98	5.143	79.84
1.73	63.51	32.95	5.111	78.05
1.77	57.14	32.91	5.066	75.48
1.80	51.67	32.86	5.012	72.43
1.83	46.97	32.80	4.953	69.08

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
1.87	42.99	32.75	4.891	65.59
1.90	39.64	32.69	4.829	62.07
1.93	36.71	32.63	4.768	58.61
1.97	34.14	32.58	4.709	55.25
2.00	31.86	32.52	4.652	52.03
2.03	29.75	32.47	4.598	48.96
2.07	26.99	32.43	4.545	45.97
2.10	22.99	32.38	4.492	42.93
2.13	18.61	32.32	4.435	39.73
2.17	14.94	32.27	4.377	36.40
2.20	12.31	32.21	4.318	33.10
2.23	10.46	32.16	4.263	29.96
2.27	9.10	32.12	4.211	27.04
2.30	8.09	32.07	4.164	24.36
2.33	7.30	32.03	4.122	21.95
2.37	6.60	32.00	4.083	19.91
2.40	5.99	31.96	4.047	19.16
2.43	5.45	31.92	4.011	18.41
2.47	4.96	31.88	3.975	17.68
2.50	4.53	31.85	3.941	16.96
2.53	4.13	31.81	3.907	16.26
2.57	3.79	31.78	3.874	15.58
2.60	3.48	31.75	3.842	14.91
2.63	3.21	31.71	3.811	14.27
2.67	2.96	31.68	3.781	13.65
2.70	2.74	31.65	3.752	13.05
2.73	2.54	31.62	3.724	12.47
2.77	2.36	31.60	3.697	11.91
2.80	2.19	31.57	3.672	11.38
2.83	2.04	31.54	3.647	10.86
2.87	1.90	31.52	3.623	10.37
2.90	1.78	31.49	3.600	9.90
2.93	1.67	31.47	3.578	9.44
2.97	1.57	31.45	3.557	9.01
3.00	1.47	31.43	3.537	8.59
3.03	1.39	31.41	3.518	8.19
3.07	1.31	31.39	3.500	7.81
3.10	1.23	31.37	3.482	7.45
3.13	1.17	31.36	3.465	7.10
3.17	1.11	31.34	3.449	6.77
3.20	1.06	31.32	3.434	6.46
3.23	1.01	31.31	3.420	6.16
3.27	.97	31.29	3.406	5.87
3.30	.92	31.28	3.393	5.59
3.33	.89	31.27	3.380	5.33
3.37	.85	31.25	3.368	5.09
3.40	.83	31.24	3.357	4.85
3.43	.80	31.23	3.346	4.63
3.47	.79	31.22	3.336	4.41
3.50	.76	31.21	3.326	4.21
3.53	.73	31.20	3.317	4.02
3.57	.71	31.19	3.308	3.84
3.60	.69	31.18	3.300	3.66
3.63	.68	31.17	3.292	3.50
3.67	.66	31.17	3.284	3.34
3.70	.65	31.16	3.277	3.19

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
3.73	.64	31.15	3.270	3.05
3.77	.63	31.15	3.264	2.91
3.80	.62	31.14	3.257	2.79
3.83	.61	31.13	3.252	2.67
3.87	.60	31.13	3.246	2.55
3.90	.59	31.12	3.241	2.44
3.93	.59	31.12	3.236	2.34
3.97	.58	31.11	3.231	2.24
4.00	.57	31.11	3.227	2.15
4.03	.56	31.10	3.222	2.06
4.07	.55	31.10	3.218	1.98
4.10	.55	31.09	3.215	1.90
4.13	.54	31.09	3.211	1.82
4.17	.54	31.09	3.207	1.75
4.20	.55	31.08	3.204	1.69
4.23	.55	31.08	3.201	1.62
4.27	.54	31.08	3.198	1.56
4.30	.53	31.08	3.196	1.51
4.33	.53	31.07	3.193	1.45
4.37	.53	31.07	3.190	1.40
4.40	.53	31.07	3.188	1.35
4.43	.53	31.07	3.186	1.31
4.47	.53	31.06	3.184	1.26
4.50	.53	31.06	3.182	1.22
4.53	.53	31.06	3.180	1.18
4.57	.52	31.06	3.178	1.15
4.60	.52	31.06	3.177	1.11
4.63	.53	31.05	3.175	1.08
4.67	.53	31.05	3.174	1.05
4.70	.53	31.05	3.172	1.02
4.73	.54	31.05	3.171	.99
4.77	.54	31.05	3.170	.97
4.80	.54	31.05	3.168	.94
4.83	.54	31.05	3.167	.92
4.87	.54	31.04	3.166	.90
4.90	.54	31.04	3.165	.88
4.93	.54	31.04	3.164	.86
4.97	.55	31.04	3.164	.84
5.00	.55	31.04	3.163	.83
5.03	.56	31.04	3.162	.81
5.07	.56	31.04	3.161	.80
5.10	.56	31.04	3.161	.78
5.13	.57	31.04	3.160	.77
5.17	.57	31.04	3.160	.76
5.20	.57	31.04	3.159	.75
5.23	.57	31.04	3.159	.74
5.27	.58	31.04	3.158	.73
5.30	.59	31.04	3.158	.72
5.33	.59	31.04	3.157	.72
5.37	.60	31.04	3.157	.71
5.40	.60	31.04	3.157	.70
5.43	.60	31.03	3.157	.70
5.47	.61	31.03	3.156	.69
5.50	.61	31.03	3.156	.69
5.53	.62	31.03	3.156	.68
5.57	.62	31.03	3.156	.68
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
5.60	.63	31.03	3.156	.68
5.63	.63	31.03	3.155	.68
5.67	.64	31.03	3.155	.67
5.70	.64	31.03	3.155	.67
5.73	.65	31.03	3.155	.67
5.77	.66	31.03	3.155	.67
5.80	.66	31.03	3.155	.67
5.83	.66	31.03	3.155	.67
5.87	.67	31.03	3.155	.67
5.90	.68	31.03	3.155	.67
5.93	.68	31.03	3.155	.67
5.97	.69	31.03	3.155	.67
6.00	.70	31.03	3.155	.67
6.03	.70	31.03	3.155	.67
6.07	.66	31.03	3.155	.67
6.10	.55	31.03	3.155	.67
6.13	.40	31.03	3.155	.66
6.17	.28	31.03	3.154	.64
6.20	.19	31.03	3.153	.62
6.23	.14	31.03	3.152	.59
6.27	.11	31.03	3.150	.57
6.30	.09	31.03	3.149	.54
6.33	.08	31.03	3.148	.52
6.37	.07	31.02	3.147	.49
6.40	.06	31.02	3.145	.47
6.43	.05	31.02	3.144	.44

6.47	.04	31.02	3.143	.42	7.73	.00	31.00	3.125	.05
6.50	.04	31.02	3.142	.40	7.77	.00	31.00	3.125	.05
6.53	.03	31.02	3.141	.38	7.80	.00	31.00	3.125	.05
6.57	.03	31.02	3.140	.36	7.83	.00	31.00	3.125	.04
6.60	.02	31.02	3.139	.34	7.87	.00	31.00	3.125	.04
6.63	.02	31.02	3.139	.32	7.90	.00	31.00	3.125	.04
6.67	.02	31.02	3.138	.31	7.93	.00	31.00	3.125	.04
6.70	.01	31.01	3.137	.29	7.97	.00	31.00	3.125	.03
6.73	.01	31.01	3.136	.28	8.00	.00	31.00	3.124	.03
6.77	.01	31.01	3.136	.26	8.03	.00	31.00	3.124	.03
6.80	.01	31.01	3.135	.25	8.07	.00	31.00	3.124	.03
6.83	.01	31.01	3.134	.23	8.10	.00	31.00	3.124	.03
6.87	.01	31.01	3.134	.22	8.13	.00	31.00	3.124	.03
6.90	.01	31.01	3.133	.21	8.17	.00	31.00	3.124	.02
6.93	.00	31.01	3.132	.20	8.20	.00	31.00	3.124	.02
6.97	.00	31.01	3.132	.19	8.23	.00	31.00	3.124	.02
7.00	.00	31.01	3.131	.18	8.27	.00	31.00	3.124	.02
7.03	.00	31.01	3.131	.17	8.30	.00	31.00	3.124	.02
7.07	.00	31.01	3.131	.16	8.33	.00	31.00	3.124	.02
7.10	.00	31.01	3.130	.15	8.37	.00	31.00	3.124	.02
7.13	.00	31.01	3.130	.14	8.40	.00	31.00	3.124	.02
7.17	.00	31.01	3.129	.13	8.43	.00	31.00	3.124	.02
7.20	.00	31.01	3.129	.13	8.47	.00	31.00	3.124	.01
7.23	.00	31.01	3.129	.12	8.50	.00	31.00	3.124	.01
7.27	.00	31.01	3.128	.11	8.53	.00	31.00	3.124	.01
7.30	.00	31.01	3.128	.11	8.57	.00	31.00	3.124	.01
7.33	.00	31.01	3.128	.10	8.60	.00	31.00	3.124	.01
7.37	.00	31.00	3.128	.09	8.63	.00	31.00	3.123	.01
7.40	.00	31.00	3.127	.09	8.67	.00	31.00	3.123	.01
7.43	.00	31.00	3.127	.08	8.70	.00	31.00	3.123	.01
					8.73	.00	31.00	3.123	.01
					8.77	.00	31.00	3.123	.01
					8.80	.00	31.00	3.123	.01
					8.83	.00	31.00	3.123	.01
					8.87	.00	31.00	3.123	.01
					8.90	.00	31.00	3.123	.01
					8.93	.00	31.00	3.123	.01
					8.97	.00	31.00	3.123	.01
					9.00	.00	31.00	3.123	.01
					9.03	.00	31.00	3.123	.01
					9.07	.00	31.00	3.123	.01
					9.10	.00	31.00	3.123	.00
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)					
7.47	.00	31.00	3.127	.08					
7.50	.00	31.00	3.127	.08					
7.53	.00	31.00	3.126	.07					
7.57	.00	31.00	3.126	.07					
7.60	.00	31.00	3.126	.06					
7.63	.00	31.00	3.126	.06					
7.67	.00	31.00	3.126	.06					
7.70	.00	31.00	3.126	.05					

PEAK DISCHARGE = 80.395 CFS - PEAK OCCURS AT HOUR 1.67
 MAXIMUM WATER SURFACE ELEVATION = 32.988
 MAXIMUM STORAGE = 5.1527 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=41 CODE=1

PARTIAL HYDROGRAPH 201.10

RUNOFF VOLUME = 1.52403 INCHES = 5.3686 ACRE-FEET
 PEAK DISCHARGE RATE = 80.40 CFS AT 1.667 HOURS BASIN AREA = .0661 SQ. MI.

* ADD OVERFLOW FROM BASIN 201 TO BASIN 300

ADD HYD ID=32 HYD NO=300.20 ID=30 ID=41
 PRINT HYD ID=32 CODE=1

HYDROGRAPH FROM AREA 300.20

RUNOFF VOLUME = 1.02247 INCHES = 7.4669 ACRE-FEET
 PEAK DISCHARGE RATE = 136.67 CFS AT 1.567 HOURS BASIN AREA = .1369 SQ. MI.

*S BASIN 310
 * PROPOSED BASIN NORTH OF RIO BRAVO

COMPUTE NM HYD ID=50 HYD NO=310.00 AREA=0.0928804 SQ MI
 PER A=90 PER B=05 PER C=05 PER D=0
 TP=-0.1333 HR MASS RAIN=-1

K = .152670HR TP = .133300HR K/TP RATIO = 1.145315 SHAPE CONSTANT, N = 3.092372
 UNIT PEAK = 201.56 CFS UNIT VOLUME = .9998 B = 289.27 P60 = 2.0100
 AREA = .092880 SQ MI IA = .62750 INCHES INF = 1.60700 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=50 CODE=1

HYDROGRAPH FROM AREA 310.00

RUNOFF VOLUME = .55510 INCHES = 2.7497 ACRE-FEET
PEAK DISCHARGE RATE = 98.73 CFS AT 1.533 HOURS BASIN AREA = .0929 SQ. MI.

*S BASIN 320
* PROPOSED BASIN EAST OF EXISTING TRACT 2A3A1

COMPUTE NM HYD ID=52 HYD NO=310.00 AREA=0.019736 SQ MI
PER A=90 PER B=05 PER C=05 PER D=0
TP=-0.1333 HR MASS RAIN=-1

K = .156116HR TP = .133300HR K/TP RATIO = 1.171160 SHAPE CONSTANT, N = 3.028479
UNIT PEAK = 42.068 CFS UNIT VOLUME = .9995 B = 284.14 P60 = 2.0100
AREA = .019736 SQ MI IA = .62750 INCHES INF = 1.60700 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=52 CODE=1

HYDROGRAPH FROM AREA 310.00

RUNOFF VOLUME = .55510 INCHES = .5843 ACRE-FEET
PEAK DISCHARGE RATE = 20.67 CFS AT 1.533 HOURS BASIN AREA = .0197 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 15:16:24

RUNOFF VOLUME = .55510 INCHES = 2.7497 ACRE-FEET
PEAK DISCHARGE RATE = 98.73 CFS AT 1.533 HOURS BASIN AREA = .0929 SQ. MI.

*S BASIN 320
* PROPOSED BASIN EAST OF EXISTING TRACT 2A3A1

COMPUTE NM HYD ID=52 HYD NO=320.00 AREA=0.019736 SQ MI
PER A=90 PER B=05 PER C=05 PER D=0
TP=-0.1333 HR MASS RAIN=-1

K = .156116HR TP = .133300HR K/TP RATIO = 1.171160 SHAPE CONSTANT, N = 3.028479
UNIT PEAK = 42.068 CFS UNIT VOLUME = .9995 B = 284.14 P60 = 2.0100
AREA = .019736 SQ MI IA = .62750 INCHES INF = 1.60700 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=52 CODE=1

HYDROGRAPH FROM AREA 320.00

RUNOFF VOLUME = .55510 INCHES = .5843 ACRE-FEET
PEAK DISCHARGE RATE = 20.67 CFS AT 1.533 HOURS BASIN AREA = .0197 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 15:16:24

Appendix B

AHYMO Summary & Detailed Output for Proposed Conditions during the 100-year Storm

AHYMO SUMMARY TABLE (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
 INPUT FILE = c:\ahymo\schwartz\105dev2.dat

RUN DATE (MON/DAY/YR) =09/07/2000
 USER NO.= ISCARFNM.I01

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION

*S	*****									
*S	**									
*S	SCHWARTZMAN PROPERTIES									
*S	DRAINAGE MASTER PLAN									
*S	DEVELOPED CONDITIONS									
*S	*****									
START	TIME= .00									
RAINFALL TYPE= 1	RAIN6= 2.320									
*S BASIN 100										
COMPUTE NM HYD	100.00	-	1	.00978	11.17	.330	.63329	1.533	1.785 PER IMP=	<u>5.00</u>
*S BASIN 110										
COMPUTE NM HYD	110.00	-	2	.02811	32.08	.949	.63329	1.533	1.783 PER IMP=	<u>5.00</u>
*S BASIN 200										
COMPUTE NM HYD	200.00	-	10	.07602	192.97	6.781	1.67244	1.500	3.966 PER IMP=	<u>65.00</u>
ADD HYD	200.10	1&10	11	.08580	204.02	7.111	1.55400	1.500	3.715	
ADD HYD	200.20	2&11	12	.11391	235.73	8.060	1.32679	1.500	3.234	
*S BASIN 120										
COMPUTE NM HYD	120.00	-	20	.03049	29.92	.850	.52255	1.533	1.533 PER IMP=	.00
*S BASIN 300										
COMPUTE NM HYD	300.00	-	30	.07088	200.12	7.263	1.92140	1.500	4.412 PER IMP=	<u>85.00</u>
ADD HYD	300.10	20&30	31	.10137	229.37	8.113	1.50065	1.500	3.536	
*S BASIN 201										
COMPUTE NM HYD	201.00	-	40	.06605	155.37	5.369	1.52404	1.500	3.675 PER IMP=	<u>55.00</u>
*S AUTO AUCTION DETENTION POND										
ROUTE RESERVOIR	201.10	40	41	.06605	80.40	5.369	1.52403	1.667	1.902 AC-FT=	5.153
ADD HYD	300.20	30&41	32	.13693	245.47	12.632	1.72972	1.533	2.801	
*S NORTH DETENTION POND										
ROUTE RESERVOIR	300.30	32	33	.13693	3.67	4.908	.67201	3.833	.042 AC-FT=	11.581
*S BASIN 310										
COMPUTE NM HYD	310.00	-	50	.09288	262.04	9.518	1.92140	1.500	4.408 PER IMP=	<u>85.00</u>
*S SOUTH DETENTION POND										
ROUTE RESERVOIR	310.10	50	51	.09288	3.75	4.727	.95417	2.800	.063 AC-FT=	8.741
*S BASIN 320										
COMPUTE NM HYD	320.00	-	52	.01974	55.75	2.022	1.92140	1.500	4.414 PER IMP=	<u>85.00</u>
*S DETENTION POND FOR BASIN 320										
ROUTE RESERVOIR	320.10	52	53	.01974	3.17	1.776	1.68743	2.300	.251 AC-FT=	1.689
FINISH										

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
RUN DATE (MON/DAY/YR) = 09/07/2000
START TIME (HR:MIN:SEC) = 16:29:48 USER NO.= ISCARFNM.I01
INPUT FILE = c:\ahymo\schwartz\105dev2.dat

```
*S*****
*S
*S          SCHWARTZMAN PROPERTIES
*S          DRAINAGE MASTER PLAN
*S          DEVELOPED CONDITIONS
*S
*S*****
***
***          105DEV.DAT
***          AUGUST 30, 2000    GLD
***
***
***
*****
```

START RAINFALL BEGINS AT 0.0 HRS
RAINFALL TYPE=1 RAIN QUARTER=0 RAIN ONE=2.01
RAIN SIX=2.32 RAIN DAY=2.69 DT=0.03333HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
DT = .033330 HOURS END TIME = 5.999400 HOURS

.0000	.0013	.0027	.0041	.0055	.0070	.0085
.0100	.0116	.0132	.0149	.0166	.0183	.0201
.0220	.0239	.0258	.0279	.0299	.0321	.0343
.0367	.0391	.0416	.0442	.0470	.0498	.0529
.0560	.0594	.0629	.0685	.0744	.0808	.0944
.1249	.1718	.2392	.3312	.4522	.6064	.7984
1.0327	1.2502	1.3411	1.4178	1.4860	1.5480	1.6052
1.6582	1.7078	1.7542	1.7980	1.8392	1.8782	1.9151
1.9500	1.9831	2.0146	2.0444	2.0728	2.0790	2.0849
2.0904	2.0956	2.1006	2.1053	2.1099	2.1143	2.1185
2.1226	2.1266	2.1304	2.1341	2.1376	2.1411	2.1445
2.1478	2.1510	2.1541	2.1572	2.1602	2.1631	2.1659
2.1687	2.1714	2.1741	2.1767	2.1793	2.1818	2.1843
2.1867	2.1891	2.1914	2.1938	2.1960	2.1983	2.2004
2.2026	2.2047	2.2068	2.2089	2.2110	2.2130	2.2149
2.2169	2.2188	2.2207	2.2226	2.2245	2.2263	2.2281
2.2299	2.2317	2.2334	2.2352	2.2369	2.2386	2.2402
2.2419	2.2435	2.2451	2.2467	2.2483	2.2499	2.2515
2.2530	2.2545	2.2560	2.2575	2.2590	2.2605	2.2619
2.2634	2.2648	2.2662	2.2676	2.2690	2.2704	2.2718
2.2731	2.2745	2.2758	2.2771	2.2784	2.2797	2.2810
2.2823	2.2836	2.2848	2.2861	2.2873	2.2886	2.2898
2.2910	2.2922	2.2934	2.2946	2.2958	2.2970	2.2981
2.2993	2.3005	2.3016	2.3027	2.3039	2.3050	2.3061
2.3072	2.3083	2.3094	2.3105	2.3116	2.3126	2.3137
2.3148	2.3158	2.3169	2.3179	2.3190	2.3200	

```
*S BASIN 100
* OFFSITE BASIN
* EAST OF BROADWAY, ACROSS FROM NORTH END OF USPS SITE
```

COMPUTE NM HYD ID=1 HYD NO=100.00 AREA=0.009778 SQ MI
PER A=85 PER B=5 PER C=5 PER D=5
TP=-0.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 1.9302 CFS UNIT VOLUME = .9933 B = 526.28 P60 = 2.0100
AREA = .000489 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .155903HR TP = .133300HR K/TP RATIO = 1.169566 SHAPE CONSTANT, N = 3.032323
UNIT PEAK = 19.822 CFS UNIT VOLUME = .9991 B = 284.45 P60 = 2.0100
AREA = .009289 SQ MI IA = .62632 INCHES INF = 1.60368 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 100.00

RUNOFF VOLUME = .63329 INCHES = .3303 ACRE-FEET
PEAK DISCHARGE RATE = 11.17 CFS AT 1.533 HOURS BASIN AREA = .0098 SQ. MI.

```
*S BASIN 110
* OFFSITE BASIN
* EAST OF BROADWAY, ACROSS FORM MAJORITY OF USPS SITE
```

COMPUTE NM HYD ID=2 HYD NO=110.00 AREA=0.02811 SQ MI
PER A=85 PER B=5 PER C=5 PER D=5

TP=-0.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 5.5490 CFS UNIT VOLUME = .9973 B = 526.28 P60 = 2.0100
AREA = .001406 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .155903HR TP = .133300HR K/TP RATIO = 1.169566 SHAPE CONSTANT, N = 3.032323
UNIT PEAK = 56.984 CFS UNIT VOLUME = .9995 B = 284.45 P60 = 2.0100
AREA = .026705 SQ MI IA = .62632 INCHES INF = 1.60368 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=2 CODE=1

PARTIAL HYDROGRAPH 110.00

RUNOFF VOLUME = .63329 INCHES = .9494 ACRE-FEET
PEAK DISCHARGE RATE = 32.08 CFS AT 1.533 HOURS BASIN AREA = .0281 SQ. MI.

*S BASIN 200
* USPS SITE

COMPUTE NM HYD ID=10 HYD NO=200.00 AREA=0.07602 SQ MI
PER A=0 PER B=20 PER C=15 PER D=65
TP=-0.1333 HR MASS RAIN=-1

K = .072809HR TP = .133300HR K/TP RATIO = .546203 SHAPE CONSTANT, N = 7.086373
UNIT PEAK = 194.74 CFS UNIT VOLUME = .9993 B = 525.33 P60 = 2.0100
AREA = .049413 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .120898HR TP = .133300HR K/TP RATIO = .906960 SHAPE CONSTANT, N = 3.905785
UNIT PEAK = 69.629 CFS UNIT VOLUME = 1.000 B = 348.84 P60 = 2.0100
AREA = .026607 SQ MI IA = .43571 INCHES INF = 1.07000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=10 CODE=1

PARTIAL HYDROGRAPH 200.00

RUNOFF VOLUME = 1.67244 INCHES = 6.7807 ACRE-FEET
PEAK DISCHARGE RATE = 192.97 CFS AT 1.500 HOURS BASIN AREA = .0760 SQ. MI.

* ADD OFFSITE BASIN 100 TO USPS SITE

ADD HYD ID=11 HYD NO=200.10 ID=1 ID=10
PRINT HYD ID=11 CODE=1

PARTIAL HYDROGRAPH 200.10

RUNOFF VOLUME = 1.55400 INCHES = 7.1109 ACRE-FEET
PEAK DISCHARGE RATE = 204.02 CFS AT 1.500 HOURS BASIN AREA = .0858 SQ. MI.

* ADD OFFSITE BASIN 110 TO USPS SITE

ADD HYD ID=12 HYD NO=200.20 ID=2 ID=11
PRINT HYD ID=12 CODE=1

PARTIAL HYDROGRAPH 200.20

RUNOFF VOLUME = 1.32679 INCHES = 8.0603 ACRE-FEET
PEAK DISCHARGE RATE = 235.73 CFS AT 1.500 HOURS BASIN AREA = .1139 SQ. MI.

*S BASIN 120
* OFFSITE BASIN
* EAST OF BROADWAY, NORTH AND WEST OF AMAFCA DIVERSION CHANNEL

COMPUTE NM HYD ID=20 HYD NO=120.00 AREA=0.03049 SQ MI
PER A=100 PER B=0 PER C=0 PER D=0
TP=-0.1333 HR MASS RAIN=-1

K = .160154HR TP = .133300HR K/TP RATIO = 1.201459 SHAPE CONSTANT, N = 2.957910

UNIT PEAK = 63.673 CFS UNIT VOLUME = .9995 B = 278.37 P60 = 2.0100
AREA = .030490 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=20 CODE=1

PARTIAL HYDROGRAPH 120.00

RUNOFF VOLUME = .52255 INCHES = .8497 ACRE-FEET
PEAK DISCHARGE RATE = 29.92 CFS AT 1.533 HOURS BASIN AREA = .0305 SQ. MI.

*S BASIN 300
* PROPOSED BASIN SOUTH OF USPS SITE

COMPUTE NM HYD ID=30 HYD NO=300.00 AREA=0.070879 SQ MI
PER A=0 PER B=05 PER C=10 PER D=85
TP=-0.1333 HR MASS RAIN=-1

K = .072748HR TP = .133300HR K/TP RATIO = .545745 SHAPE CONSTANT, N = 7.094002
UNIT PEAK = 237.59 CFS UNIT VOLUME = .9993 B = 525.69 P60 = 2.0100
AREA = .060247 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .115355HR TP = .133300HR K/TP RATIO = .865379 SHAPE CONSTANT, N = 4.107040
UNIT PEAK = 28.892 CFS UNIT VOLUME = .9999 B = 362.24 P60 = 2.0100
AREA = .010632 SQ MI IA = .40000 INCHES INF = .97000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=30 CODE=1

HYDROGRAPH FROM AREA 300.00

RUNOFF VOLUME = 1.92140 INCHES = 7.2633 ACRE-FEET
PEAK DISCHARGE RATE = 200.12 CFS AT 1.500 HOURS BASIN AREA = .0709 SQ. MI.

* ADD OFFSITE BASIN 120 TO BASIN 300

ADD HYD ID=31 HYD NO=300.10 ID=20 ID=30
PRINT HYD ID=31 CODE=1

HYDROGRAPH FROM AREA 300.10

RUNOFF VOLUME = 1.50065 INCHES = 8.1130 ACRE-FEET
PEAK DISCHARGE RATE = 229.37 CFS AT 1.500 HOURS BASIN AREA = .1014 SQ. MI.

*S BASIN 201
* OFFSITE BASIN
* ALBUQUERQUE AUTO AUCTION OVERFLOW QUANTITIES

COMPUTE NM HYD ID=40 HYD NO=201.00 AREA=0.06605 SQ MI
PER A=10 PER B=15 PER C=20 PER D=55
TP=-0.1333 HR MASS RAIN=-1

K = .072691HR TP = .133300HR K/TP RATIO = .545316 SHAPE CONSTANT, N = 7.101167
UNIT PEAK = 143.36 CFS UNIT VOLUME = .9993 B = 526.03 P60 = 2.0100
AREA = .036328 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .127166HR TP = .133300HR K/TP RATIO = .953980 SHAPE CONSTANT, N = 3.704526
UNIT PEAK = 74.689 CFS UNIT VOLUME = 1.000 B = 334.96 P60 = 2.0100
AREA = .029723 SQ MI IA = .46667 INCHES INF = 1.15667 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=40 CODE=1

PARTIAL HYDROGRAPH 201.00

RUNOFF VOLUME = 1.52404 INCHES = 5.3686 ACRE-FEET
PEAK DISCHARGE RATE = 155.37 CFS AT 1.500 HOURS BASIN AREA = .0661 SQ. MI.

*S AUTO AUCTION DETENTION POND

ROUTE RESERVOIR ID=41 HYD NO=201.1 INFLOW ID=40 CODE=1

OUTFLOW (CFS) STORAGE (AF) ELEV (FT)

0.0 3.122953 31
20.0 4.087295 32
81.11 5.165280 33

* * * * *
TIME INFLOW ELEV VOLUME OUTFLOW
(HRS) (CFS) (FEET) (AC-FT) (CFS)

.00	.00	31.00	3.123	.00
.03	.00	31.00	3.123	.00
.07	.00	31.00	3.123	.00
.10	.00	31.00	3.123	.00
.13	.00	31.00	3.123	.00
.17	.00	31.00	3.123	.00
.20	.00	31.00	3.123	.00
.23	.00	31.00	3.123	.00
.27	.00	31.00	3.123	.00
.30	.00	31.00	3.123	.00
.33	.00	31.00	3.123	.00
.37	.00	31.00	3.123	.00
.40	.00	31.00	3.123	.00
.43	.00	31.00	3.123	.00
.47	.00	31.00	3.123	.00
.50	.00	31.00	3.123	.00
.53	.00	31.00	3.123	.00
.57	.00	31.00	3.123	.00
.60	.00	31.00	3.123	.00
.63	.00	31.00	3.123	.00
.67	.00	31.00	3.123	.00
.70	.00	31.00	3.123	.00
.73	.00	31.00	3.123	.00
.77	.00	31.00	3.123	.00
.80	.00	31.00	3.123	.00
.83	.00	31.00	3.123	.00
.87	.00	31.00	3.123	.00
.90	.00	31.00	3.123	.00
.93	.00	31.00	3.123	.00
.97	.00	31.00	3.123	.00
1.00	.00	31.00	3.123	.00
1.03	.00	31.00	3.123	.00
1.07	.00	31.00	3.123	.00
1.10	.00	31.00	3.123	.00
1.13	.00	31.00	3.123	.00
1.17	.07	31.00	3.123	.00
1.20	1.19	31.00	3.125	.04
1.23	4.92	31.01	3.133	.20
1.27	11.80	31.03	3.155	.66
1.30	21.33	31.08	3.197	1.54
1.33	34.43	31.15	3.268	3.00
1.37	53.62	31.26	3.378	5.28
1.40	79.69	31.43	3.542	8.69
1.43	111.11	31.68	3.774	13.51
1.47	140.64	31.99	4.075	19.75
1.50	155.37	32.29	4.403	37.92
1.53	149.89	32.57	4.696	54.53
1.57	131.87	32.77	4.917	67.04
1.60	111.70	32.90	5.057	74.97
1.63	94.82	32.97	5.129	79.07
1.67	81.65	32.99	5.153	80.40
1.70	71.44	32.98	5.143	79.84
1.73	63.51	32.95	5.111	78.05
1.77	57.14	32.91	5.066	75.48
1.80	51.67	32.86	5.012	72.43
1.83	46.97	32.80	4.953	69.08

TIME INFLOW ELEV VOLUME OUTFLOW
(HRS) (CFS) (FEET) (AC-FT) (CFS)

1.87	42.99	32.75	4.891	65.59
1.90	39.64	32.69	4.829	62.07
1.93	36.71	32.63	4.768	58.61
1.97	34.14	32.58	4.709	55.25
2.00	31.86	32.52	4.652	52.03
2.03	29.75	32.47	4.598	48.96
2.07	26.99	32.43	4.545	45.97
2.10	22.99	32.38	4.492	42.93
2.13	18.61	32.32	4.435	39.73
2.17	14.94	32.27	4.377	36.40
2.20	12.31	32.21	4.318	33.10
2.23	10.46	32.16	4.263	29.96
2.27	9.10	32.12	4.211	27.04
2.30	8.09	32.07	4.164	24.36
2.33	7.30	32.03	4.122	21.95
2.37	6.60	32.00	4.083	19.91
2.40	5.99	31.96	4.047	19.16
2.43	5.45	31.92	4.011	18.41
2.47	4.96	31.88	3.975	17.68

2.50	4.53	31.85	3.941	16.96
2.53	4.13	31.81	3.907	16.26
2.57	3.79	31.78	3.874	15.58
2.60	3.48	31.75	3.842	14.91
2.63	3.21	31.71	3.811	14.27
2.67	2.96	31.68	3.781	13.65
2.70	2.74	31.65	3.752	13.05
2.73	2.54	31.62	3.724	12.47
2.77	2.36	31.60	3.697	11.91
2.80	2.19	31.57	3.672	11.38
2.83	2.04	31.54	3.647	10.86
2.87	1.90	31.52	3.623	10.37
2.90	1.78	31.49	3.600	9.90
2.93	1.67	31.47	3.578	9.44
2.97	1.57	31.45	3.557	9.01
3.00	1.47	31.43	3.537	8.59
3.03	1.39	31.41	3.518	8.19
3.07	1.31	31.39	3.500	7.81
3.10	1.23	31.37	3.482	7.45
3.13	1.17	31.36	3.465	7.10
3.17	1.11	31.34	3.449	6.77
3.20	1.06	31.32	3.434	6.46
3.23	1.01	31.31	3.420	6.16
3.27	.97	31.29	3.406	5.87
3.30	.92	31.28	3.393	5.59
3.33	.89	31.27	3.380	5.33
3.37	.85	31.25	3.368	5.09
3.40	.83	31.24	3.357	4.85
3.43	.80	31.23	3.346	4.63
3.47	.79	31.22	3.336	4.41
3.50	.76	31.21	3.326	4.21
3.53	.73	31.20	3.317	4.02
3.57	.71	31.19	3.308	3.84
3.60	.69	31.18	3.300	3.66
3.63	.68	31.17	3.292	3.50
3.67	.66	31.17	3.284	3.34
3.70	.65	31.16	3.277	3.19

TIME INFLOW ELEV VOLUME OUTFLOW
(HRS) (CFS) (FEET) (AC-FT) (CFS)

3.73	.64	31.15	3.270	3.05
3.77	.63	31.15	3.264	2.91
3.80	.62	31.14	3.257	2.79
3.83	.61	31.13	3.252	2.67
3.87	.60	31.13	3.246	2.55
3.90	.59	31.12	3.241	2.44
3.93	.59	31.12	3.236	2.34
3.97	.58	31.11	3.231	2.24
4.00	.57	31.11	3.227	2.15
4.03	.56	31.10	3.222	2.06
4.07	.55	31.10	3.218	1.98
4.10	.55	31.09	3.215	1.90
4.13	.54	31.09	3.211	1.82
4.17	.54	31.09	3.207	1.75
4.20	.55	31.08	3.204	1.69
4.23	.55	31.08	3.201	1.62
4.27	.54	31.08	3.198	1.56
4.30	.53	31.08	3.196	1.51
4.33	.53	31.07	3.193	1.45
4.37	.53	31.07	3.190	1.40
4.40	.53	31.07	3.188	1.35
4.43	.53	31.07	3.186	1.31
4.47	.53	31.06	3.184	1.26
4.50	.53	31.06	3.182	1.22
4.53	.53	31.06	3.180	1.18
4.57	.52	31.06	3.178	1.15
4.60	.52	31.06	3.177	1.11
4.63	.53	31.05	3.175	1.08
4.67	.53	31.05	3.174	1.05
4.70	.53	31.05	3.172	1.02
4.73	.54	31.05	3.171	.99
4.77	.54	31.05	3.170	.97
4.80	.54	31.05	3.168	.94
4.83	.54	31.05	3.167	.92
4.87	.54	31.04	3.166	.90
4.90	.54	31.04	3.165	.88
4.93	.54	31.04	3.164	.86
4.97	.55	31.04	3.164	.84
5.00	.55	31.04	3.163	.83
5.03	.56	31.04	3.162	.81
5.07	.56	31.04	3.161	.80
5.10	.56	31.04	3.161	.78

5.13	.57	31.04	3.160	.77
5.17	.57	31.04	3.160	.76
5.20	.57	31.04	3.159	.75
5.23	.57	31.04	3.159	.74
5.27	.58	31.04	3.158	.73
5.30	.59	31.04	3.158	.72
5.33	.59	31.04	3.157	.72
5.37	.60	31.04	3.157	.71
5.40	.60	31.04	3.157	.70
5.43	.60	31.03	3.157	.70
5.47	.61	31.03	3.156	.69
5.50	.61	31.03	3.156	.69
5.53	.62	31.03	3.156	.68
5.57	.62	31.03	3.156	.68

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
5.60	.63	31.03	3.156	.68
5.63	.63	31.03	3.155	.68
5.67	.64	31.03	3.155	.67
5.70	.64	31.03	3.155	.67
5.73	.65	31.03	3.155	.67
5.77	.66	31.03	3.155	.67
5.80	.66	31.03	3.155	.67
5.83	.66	31.03	3.155	.67
5.87	.67	31.03	3.155	.67
5.90	.68	31.03	3.155	.67
5.93	.68	31.03	3.155	.67
5.97	.69	31.03	3.155	.67
6.00	.70	31.03	3.155	.67
6.03	.70	31.03	3.155	.67
6.07	.66	31.03	3.155	.67
6.10	.55	31.03	3.155	.67
6.13	.40	31.03	3.155	.66
6.17	.28	31.03	3.154	.64
6.20	.19	31.03	3.153	.62
6.23	.14	31.03	3.152	.59
6.27	.11	31.03	3.150	.57
6.30	.09	31.03	3.149	.54
6.33	.08	31.03	3.148	.52
6.37	.07	31.02	3.147	.49
6.40	.06	31.02	3.145	.47
6.43	.05	31.02	3.144	.44
6.47	.04	31.02	3.143	.42
6.50	.04	31.02	3.142	.40
6.53	.03	31.02	3.141	.38
6.57	.03	31.02	3.140	.36
6.60	.02	31.02	3.139	.34
6.63	.02	31.02	3.139	.32
6.67	.02	31.02	3.138	.31
6.70	.01	31.01	3.137	.29
6.73	.01	31.01	3.136	.28
6.77	.01	31.01	3.136	.26
6.80	.01	31.01	3.135	.25
6.83	.01	31.01	3.134	.23
6.87	.01	31.01	3.134	.22
6.90	.01	31.01	3.133	.21
6.93	.00	31.01	3.132	.20
6.97	.00	31.01	3.132	.19
7.00	.00	31.01	3.131	.18
7.03	.00	31.01	3.131	.17
7.07	.00	31.01	3.131	.16
7.10	.00	31.01	3.130	.15

7.13	.00	31.01	3.130	.14
7.17	.00	31.01	3.129	.13
7.20	.00	31.01	3.129	.13
7.23	.00	31.01	3.129	.12
7.27	.00	31.01	3.128	.11
7.30	.00	31.01	3.128	.11
7.33	.00	31.01	3.128	.10
7.37	.00	31.00	3.128	.09
7.40	.00	31.00	3.127	.09
7.43	.00	31.00	3.127	.08

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
7.47	.00	31.00	3.127	.08
7.50	.00	31.00	3.127	.08
7.53	.00	31.00	3.126	.07
7.57	.00	31.00	3.126	.07
7.60	.00	31.00	3.126	.06
7.63	.00	31.00	3.126	.06
7.67	.00	31.00	3.126	.06
7.70	.00	31.00	3.126	.05
7.73	.00	31.00	3.125	.05
7.77	.00	31.00	3.125	.05
7.80	.00	31.00	3.125	.05
7.83	.00	31.00	3.125	.04
7.87	.00	31.00	3.125	.04
7.90	.00	31.00	3.125	.04
7.93	.00	31.00	3.125	.04
7.97	.00	31.00	3.125	.03
8.00	.00	31.00	3.124	.03
8.03	.00	31.00	3.124	.03
8.07	.00	31.00	3.124	.03
8.10	.00	31.00	3.124	.03
8.13	.00	31.00	3.124	.03
8.17	.00	31.00	3.124	.02
8.20	.00	31.00	3.124	.02
8.23	.00	31.00	3.124	.02
8.27	.00	31.00	3.124	.02
8.30	.00	31.00	3.124	.02
8.33	.00	31.00	3.124	.02
8.37	.00	31.00	3.124	.02
8.40	.00	31.00	3.124	.02
8.43	.00	31.00	3.124	.02
8.47	.00	31.00	3.124	.01
8.50	.00	31.00	3.124	.01
8.53	.00	31.00	3.124	.01
8.57	.00	31.00	3.124	.01
8.60	.00	31.00	3.124	.01
8.63	.00	31.00	3.123	.01
8.67	.00	31.00	3.123	.01
8.70	.00	31.00	3.123	.01
8.73	.00	31.00	3.123	.01
8.77	.00	31.00	3.123	.01
8.80	.00	31.00	3.123	.01
8.83	.00	31.00	3.123	.01
8.87	.00	31.00	3.123	.01
8.90	.00	31.00	3.123	.01
8.93	.00	31.00	3.123	.01
8.97	.00	31.00	3.123	.01
9.00	.00	31.00	3.123	.01
9.03	.00	31.00	3.123	.01
9.07	.00	31.00	3.123	.01
9.10	.00	31.00	3.123	.00

PEAK DISCHARGE = 80.395 CFS - PEAK OCCURS AT HOUR 1.67
 MAXIMUM WATER SURFACE ELEVATION = 32.988
 MAXIMUM STORAGE = 5.1527 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=41 CODE=1

PARTIAL HYDROGRAPH 201.10

RUNOFF VOLUME = 1.52403 INCHES = 5.3686 ACRE-FEET
 PEAK DISCHARGE RATE = 80.40 CFS AT 1.667 HOURS BASIN AREA = .0661 SQ. MI.

* ADD OVERFLOW FROM BASIN 201 TO BASIN 300

ADD HYD ID=32 HYD NO=300.20 ID=30 ID=41
 PRINT HYD ID=32 CODE=1

HYDROGRAPH FROM AREA 300.20

RUNOFF VOLUME = 1.72972 INCHES = 12.6318 ACRE-FEET
 PEAK DISCHARGE RATE = 245.47 CFS AT 1.533 HOURS BASIN AREA = .1369 SQ. MI.

*S NORTH DETENTION POND

ROUTE RESERVOIR ID=33 HYD NO=300.30 INFLOW ID=32 CODE=1
 OUTFLOW(CFS) STORAGE(AF) ELEV(FT)
 0.0 0.000000 28
 0.7 3.757902 29
 2.7 7.652899 30
 3.7 11.686580 31
 4.3 15.860588 32

* * * * *

TIME INFLOW ELEV VOLUME OUTFLOW
 (HRS) (CFS) (FEET) (AC-FT) (CFS)

.00 .00 28.00 .000 .00
 .03 .00 28.00 .000 .00
 .07 .00 28.00 .000 .00
 .10 .00 28.00 .000 .00
 .13 .00 28.00 .000 .00
 .17 .00 28.00 .000 .00
 .20 .00 28.00 .000 .00
 .23 .00 28.00 .000 .00
 .27 .00 28.00 .000 .00
 .30 .00 28.00 .000 .00
 .33 .00 28.00 .000 .00
 .37 .00 28.00 .000 .00
 .40 .00 28.00 .000 .00
 .43 .00 28.00 .000 .00
 .47 .00 28.00 .000 .00
 .50 .00 28.00 .000 .00
 .53 .00 28.00 .000 .00
 .57 .00 28.00 .000 .00
 .60 .00 28.00 .000 .00
 .63 .00 28.00 .000 .00
 .67 .00 28.00 .000 .00
 .70 .00 28.00 .000 .00
 .73 .00 28.00 .000 .00
 .77 .00 28.00 .000 .00
 .80 .00 28.00 .000 .00
 .83 .00 28.00 .000 .00
 .87 .00 28.00 .000 .00
 .90 .00 28.00 .000 .00
 .93 .00 28.00 .000 .00
 .97 .00 28.00 .000 .00
 1.00 .00 28.00 .000 .00
 1.03 .00 28.00 .000 .00
 1.07 .00 28.00 .000 .00
 1.10 .00 28.00 .000 .00
 1.13 .00 28.00 .000 .00
 1.17 .12 28.00 .000 .00
 1.20 2.01 28.00 .003 .00
 1.23 8.37 28.00 .017 .00
 1.27 20.22 28.02 .057 .01
 1.30 37.06 28.04 .136 .03
 1.33 58.87 28.07 .268 .05
 1.37 86.64 28.12 .468 .09
 1.40 121.07 28.20 .754 .14
 1.43 161.84 28.30 1.143 .21
 1.47 202.70 28.44 1.644 .31
 1.50 238.04 28.60 2.250 .42
 1.53 245.47 28.78 2.915 .54
 1.57 232.66 28.95 3.572 .67
 1.60 213.76 29.11 4.184 .92
 1.63 196.71 29.25 4.747 1.21
 1.67 182.42 29.39 5.265 1.47
 1.70 170.41 29.51 5.747 1.72
 1.73 160.28 29.63 6.197 1.95
 1.77 151.43 29.73 6.621 2.17
 1.80 142.93 29.84 7.020 2.37
 1.83 134.78 29.93 7.395 2.57

TIME INFLOW ELEV VOLUME OUTFLOW
 (HRS) (CFS) (FEET) (AC-FT) (CFS)

1.87 126.99 30.02 7.749 2.72
 1.90 119.53 30.11 8.081 2.81
 1.93 112.44 30.18 8.392 2.88
 1.97 105.72 30.26 8.685 2.96
 2.00 99.41 30.32 8.959 3.02
 2.03 93.40 30.39 9.216 3.09
 2.07 86.29 30.45 9.455 3.15
 2.10 77.00 30.50 9.671 3.20
 2.13 66.89 30.55 9.860 3.25
 2.17 57.77 30.59 10.023 3.29

2.20 50.38 30.62 10.163 3.32
 2.23 44.41 30.65 10.284 3.35
 2.27 39.48 30.68 10.391 3.38
 2.30 35.34 30.70 10.484 3.40
 2.33 31.82 30.72 10.567 3.42
 2.37 28.81 30.74 10.641 3.44
 2.40 27.20 30.76 10.709 3.46
 2.43 25.71 30.77 10.772 3.47
 2.47 24.31 30.79 10.832 3.49
 2.50 23.00 30.80 10.887 3.50
 2.53 21.76 30.81 10.939 3.51
 2.57 20.62 30.83 10.988 3.53
 2.60 19.55 30.84 11.033 3.54
 2.63 18.54 30.85 11.076 3.55
 2.67 17.60 30.86 11.116 3.56
 2.70 16.71 30.87 11.154 3.57
 2.73 15.87 30.88 11.189 3.58
 2.77 15.08 30.88 11.221 3.58
 2.80 14.33 30.89 11.252 3.59
 2.83 13.62 30.90 11.281 3.60
 2.87 12.95 30.91 11.307 3.61
 2.90 12.31 30.91 11.332 3.61
 2.93 11.72 30.92 11.355 3.62
 2.97 11.16 30.92 11.377 3.62
 3.00 10.62 30.93 11.397 3.63
 3.03 10.12 30.93 11.415 3.63
 3.07 9.63 30.94 11.433 3.64
 3.10 9.18 30.94 11.448 3.64
 3.13 8.75 30.94 11.463 3.64
 3.17 8.35 30.95 11.477 3.65
 3.20 7.97 30.95 11.489 3.65
 3.23 7.62 30.95 11.500 3.65
 3.27 7.27 30.96 11.511 3.66
 3.30 6.95 30.96 11.520 3.66
 3.33 6.64 30.96 11.529 3.66
 3.37 6.35 30.96 11.537 3.66
 3.40 6.08 30.96 11.544 3.66
 3.43 5.83 30.97 11.550 3.67
 3.47 5.59 30.97 11.556 3.67
 3.50 5.36 30.97 11.561 3.67
 3.53 5.13 30.97 11.565 3.67
 3.57 4.92 30.97 11.569 3.67
 3.60 4.72 30.97 11.572 3.67
 3.63 4.54 30.97 11.575 3.67
 3.67 4.37 30.97 11.577 3.67
 3.70 4.21 30.97 11.578 3.67

TIME INFLOW ELEV VOLUME OUTFLOW
 (HRS) (CFS) (FEET) (AC-FT) (CFS)

3.73 4.05 30.97 11.580 3.67
 3.77 3.89 30.97 11.581 3.67
 3.80 3.75 30.97 11.581 3.67
 3.83 3.62 30.97 11.581 3.67
 3.87 3.50 30.97 11.581 3.67
 3.90 3.38 30.97 11.580 3.67
 3.93 3.27 30.97 11.579 3.67
 3.97 3.16 30.97 11.578 3.67
 4.00 3.05 30.97 11.576 3.67
 4.03 2.96 30.97 11.574 3.67
 4.07 2.86 30.97 11.572 3.67
 4.10 2.78 30.97 11.570 3.67
 4.13 2.70 30.97 11.567 3.67
 4.17 2.63 30.97 11.565 3.67
 4.20 2.57 30.97 11.562 3.67
 4.23 2.51 30.97 11.559 3.67
 4.27 2.44 30.97 11.555 3.67
 4.30 2.37 30.97 11.552 3.67
 4.33 2.31 30.97 11.548 3.67
 4.37 2.26 30.96 11.544 3.66
 4.40 2.22 30.96 11.540 3.66
 4.43 2.18 30.96 11.536 3.66
 4.47 2.13 30.96 11.532 3.66
 4.50 2.09 30.96 11.528 3.66

4.53	2.06	30.96	11.524	3.66
4.57	2.02	30.96	11.519	3.66
4.60	1.98	30.96	11.515	3.66
4.63	1.95	30.96	11.510	3.66
4.67	1.93	30.96	11.505	3.66
4.70	1.91	30.95	11.500	3.65
4.73	1.88	30.95	11.496	3.65
4.77	1.86	30.95	11.491	3.65
4.80	1.83	30.95	11.486	3.65
4.83	1.81	30.95	11.481	3.65
4.87	1.79	30.95	11.476	3.65
4.90	1.77	30.95	11.470	3.65
4.93	1.76	30.95	11.465	3.65
4.97	1.76	30.94	11.460	3.64
5.00	1.75	30.94	11.455	3.64
5.03	1.73	30.94	11.450	3.64
5.07	1.72	30.94	11.444	3.64
5.10	1.72	30.94	11.439	3.64
5.13	1.72	30.94	11.434	3.64
5.17	1.71	30.94	11.429	3.64
5.20	1.70	30.93	11.423	3.63
5.23	1.69	30.93	11.418	3.63
5.27	1.69	30.93	11.413	3.63
5.30	1.69	30.93	11.407	3.63
5.33	1.70	30.93	11.402	3.63
5.37	1.70	30.93	11.397	3.63
5.40	1.70	30.93	11.391	3.63
5.43	1.70	30.93	11.386	3.63
5.47	1.71	30.92	11.381	3.62
5.50	1.71	30.92	11.375	3.62
5.53	1.71	30.92	11.370	3.62
5.57	1.71	30.92	11.365	3.62

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
5.60	1.72	30.92	11.360	3.62
5.63	1.72	30.92	11.354	3.62
5.67	1.73	30.92	11.349	3.62
5.70	1.73	30.92	11.344	3.62
5.73	1.74	30.91	11.339	3.61
5.77	1.76	30.91	11.334	3.61
5.80	1.76	30.91	11.329	3.61
5.83	1.77	30.91	11.323	3.61
5.87	1.78	30.91	11.318	3.61
5.90	1.79	30.91	11.313	3.61
5.93	1.80	30.91	11.308	3.61
5.97	1.81	30.91	11.303	3.61
6.00	1.82	30.90	11.298	3.60
6.03	1.83	30.90	11.294	3.60
6.07	1.77	30.90	11.289	3.60
6.10	1.57	30.90	11.283	3.60
6.13	1.32	30.90	11.277	3.60
6.17	1.10	30.90	11.271	3.60
6.20	.94	30.90	11.264	3.60
6.23	.83	30.89	11.256	3.59
6.27	.75	30.89	11.249	3.59
6.30	.69	30.89	11.241	3.59
6.33	.64	30.89	11.233	3.59
6.37	.60	30.89	11.224	3.59
6.40	.56	30.88	11.216	3.58
6.43	.53	30.88	11.208	3.58
6.47	.49	30.88	11.199	3.58
6.50	.46	30.88	11.191	3.58
6.53	.43	30.87	11.182	3.57
6.57	.40	30.87	11.173	3.57
6.60	.38	30.87	11.165	3.57
6.63	.36	30.87	11.156	3.57
6.67	.33	30.87	11.147	3.57
6.70	.31	30.86	11.138	3.56
6.73	.30	30.86	11.129	3.56
6.77	.28	30.86	11.120	3.56
6.80	.26	30.86	11.111	3.56
6.83	.25	30.86	11.102	3.56
6.87	.23	30.85	11.093	3.55
6.90	.22	30.85	11.084	3.55
6.93	.21	30.85	11.074	3.55
6.97	.19	30.85	11.065	3.55
7.00	.18	30.84	11.056	3.54
7.03	.17	30.84	11.047	3.54
7.07	.16	30.84	11.037	3.54
7.10	.15	30.84	11.028	3.54
7.13	.14	30.83	11.019	3.53
7.17	.14	30.83	11.009	3.53
7.20	.13	30.83	11.000	3.53
7.23	.12	30.83	10.991	3.53
7.27	.11	30.83	10.981	3.53
7.30	.11	30.82	10.972	3.52
7.33	.10	30.82	10.963	3.52
7.37	.10	30.82	10.953	3.52

7.40	.09	30.82	10.944	3.52
7.43	.08	30.81	10.934	3.51
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
7.47	.08	30.81	10.925	3.51
7.50	.08	30.81	10.915	3.51
7.53	.07	30.81	10.906	3.51
7.57	.07	30.80	10.896	3.50
7.60	.06	30.80	10.887	3.50
7.63	.06	30.80	10.877	3.50
7.67	.06	30.80	10.868	3.50
7.70	.05	30.79	10.858	3.49
7.73	.05	30.79	10.849	3.49
7.77	.05	30.79	10.840	3.49
7.80	.05	30.79	10.830	3.49
7.83	.04	30.79	10.821	3.49
7.87	.04	30.78	10.811	3.48
7.90	.04	30.78	10.802	3.48
7.93	.04	30.78	10.792	3.48
7.97	.03	30.78	10.783	3.48
8.00	.03	30.77	10.773	3.47
8.03	.03	30.77	10.764	3.47
8.07	.03	30.77	10.754	3.47
8.10	.03	30.77	10.745	3.47
8.13	.03	30.76	10.735	3.46
8.17	.02	30.76	10.726	3.46
8.20	.02	30.76	10.716	3.46
8.23	.02	30.76	10.707	3.46
8.27	.02	30.75	10.697	3.45
8.30	.02	30.75	10.688	3.45
8.33	.02	30.75	10.678	3.45
8.37	.02	30.75	10.669	3.45
8.40	.02	30.75	10.660	3.45
8.43	.02	30.74	10.650	3.44
8.47	.01	30.74	10.641	3.44
8.50	.01	30.74	10.631	3.44
8.53	.01	30.74	10.622	3.44
8.57	.01	30.73	10.612	3.43
8.60	.01	30.73	10.603	3.43
8.63	.01	30.73	10.594	3.43
8.67	.01	30.73	10.584	3.43
8.70	.01	30.72	10.575	3.42
8.73	.01	30.72	10.565	3.42
8.77	.01	30.72	10.556	3.42
8.80	.01	30.72	10.547	3.42
8.83	.01	30.72	10.537	3.42
8.87	.01	30.71	10.528	3.41
8.90	.01	30.71	10.518	3.41
8.93	.01	30.71	10.509	3.41
8.97	.01	30.71	10.500	3.41
9.00	.01	30.70	10.490	3.40
9.03	.01	30.70	10.481	3.40
9.07	.01	30.70	10.472	3.40
9.10	.00	30.70	10.462	3.40
9.13	.00	30.69	10.453	3.39
9.17	.00	30.69	10.444	3.39
9.20	.00	30.69	10.434	3.39
9.23	.00	30.69	10.425	3.39
9.27	.00	30.68	10.416	3.38
9.30	.00	30.68	10.406	3.38

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	30.68	10.397	3.38
9.37	.00	30.68	10.388	3.38
9.40	.00	30.68	10.378	3.38
9.43	.00	30.67	10.369	3.37
9.47	.00	30.67	10.360	3.37
9.50	.00	30.67	10.351	3.37
9.53	.00	30.67	10.341	3.37
9.57	.00	30.66	10.332	3.36
9.60	.00	30.66	10.323	3.36
9.63	.00	30.66	10.313	3.36
9.67	.00	30.66	10.304	3.36
9.70	.00	30.66	10.295	3.36
9.73	.00	30.65	10.286	3.35
9.77	.00	30.65	10.277	3.35
9.80	.00	30.65	10.267	3.35
9.83	.00	30.65	10.258	3.35
9.87	.00	30.64	10.249	3.34
9.90	.00	30.64	10.240	3.34
9.93	.00	30.64	10.231	3.34
9.97	.00	30.64	10.221	3.34
10.00	.00	30.63	10.212	3.33
10.03	.00	30.63	10.203	3.33
10.07	.00	30.63	10.194	3.33
10.10	.00	30.63	10.185	3.33

10.13	.00	30.63	10.175	3.33
10.17	.00	30.62	10.166	3.32
10.20	.00	30.62	10.157	3.32
10.23	.00	30.62	10.148	3.32
10.27	.00	30.62	10.139	3.32
10.30	.00	30.61	10.130	3.31
10.33	.00	30.61	10.121	3.31
10.37	.00	30.61	10.111	3.31
10.40	.00	30.61	10.102	3.31
10.43	.00	30.60	10.093	3.30
10.47	.00	30.60	10.084	3.30
10.50	.00	30.60	10.075	3.30
10.53	.00	30.60	10.066	3.30
10.57	.00	30.60	10.057	3.30
10.60	.00	30.59	10.048	3.29
10.63	.00	30.59	10.039	3.29
10.67	.00	30.59	10.030	3.29
10.70	.00	30.59	10.021	3.29
10.73	.00	30.58	10.012	3.28
10.77	.00	30.58	10.003	3.28
10.80	.00	30.58	9.993	3.28
10.83	.00	30.58	9.984	3.28
10.87	.00	30.58	9.975	3.28
10.90	.00	30.57	9.966	3.27
10.93	.00	30.57	9.957	3.27
10.97	.00	30.57	9.948	3.27
11.00	.00	30.57	9.939	3.27
11.03	.00	30.56	9.930	3.26
11.07	.00	30.56	9.921	3.26
11.10	.00	30.56	9.912	3.26
11.13	.00	30.56	9.903	3.26
11.17	.00	30.56	9.894	3.26

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
11.20	.00	30.55	9.885	3.25
11.23	.00	30.55	9.877	3.25
11.27	.00	30.55	9.868	3.25
11.30	.00	30.55	9.859	3.25
11.33	.00	30.54	9.850	3.24
11.37	.00	30.54	9.841	3.24
11.40	.00	30.54	9.832	3.24
11.43	.00	30.54	9.823	3.24
11.47	.00	30.54	9.814	3.24
11.50	.00	30.53	9.805	3.23
11.53	.00	30.53	9.796	3.23
11.57	.00	30.53	9.787	3.23
11.60	.00	30.53	9.778	3.23
11.63	.00	30.52	9.770	3.22
11.67	.00	30.52	9.761	3.22
11.70	.00	30.52	9.752	3.22
11.73	.00	30.52	9.743	3.22
11.77	.00	30.52	9.734	3.22
11.80	.00	30.51	9.725	3.21
11.83	.00	30.51	9.716	3.21
11.87	.00	30.51	9.707	3.21
11.90	.00	30.51	9.699	3.21
11.93	.00	30.50	9.690	3.20
11.97	.00	30.50	9.681	3.20
12.00	.00	30.50	9.672	3.20
12.03	.00	30.50	9.663	3.20
12.07	.00	30.50	9.655	3.20
12.10	.00	30.49	9.646	3.19
12.13	.00	30.49	9.637	3.19
12.17	.00	30.49	9.628	3.19
12.20	.00	30.49	9.619	3.19
12.23	.00	30.49	9.611	3.19
12.27	.00	30.48	9.602	3.18
12.30	.00	30.48	9.593	3.18
12.33	.00	30.48	9.584	3.18
12.37	.00	30.48	9.576	3.18
12.40	.00	30.47	9.567	3.17
12.43	.00	30.47	9.558	3.17
12.47	.00	30.47	9.549	3.17
12.50	.00	30.47	9.541	3.17
12.53	.00	30.47	9.532	3.17
12.57	.00	30.46	9.523	3.16
12.60	.00	30.46	9.514	3.16
12.63	.00	30.46	9.506	3.16
12.67	.00	30.46	9.497	3.16
12.70	.00	30.46	9.488	3.16
12.73	.00	30.45	9.480	3.15
12.77	.00	30.45	9.471	3.15
12.80	.00	30.45	9.462	3.15
12.83	.00	30.45	9.454	3.15
12.87	.00	30.44	9.445	3.14
12.90	.00	30.44	9.436	3.14
12.93	.00	30.44	9.428	3.14
12.97	.00	30.44	9.419	3.14

13.00	.00	30.44	9.410	3.14
13.03	.00	30.43	9.402	3.13

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
13.07	.00	30.43	9.393	3.13
13.10	.00	30.43	9.384	3.13
13.13	.00	30.43	9.376	3.13
13.17	.00	30.43	9.367	3.13
13.20	.00	30.42	9.359	3.12
13.23	.00	30.42	9.350	3.12
13.27	.00	30.42	9.341	3.12
13.30	.00	30.42	9.333	3.12
13.33	.00	30.41	9.324	3.11
13.37	.00	30.41	9.316	3.11
13.40	.00	30.41	9.307	3.11
13.43	.00	30.41	9.299	3.11
13.47	.00	30.41	9.290	3.11
13.50	.00	30.40	9.281	3.10
13.53	.00	30.40	9.273	3.10
13.57	.00	30.40	9.264	3.10
13.60	.00	30.40	9.256	3.10
13.63	.00	30.40	9.247	3.10
13.67	.00	30.39	9.239	3.09
13.70	.00	30.39	9.230	3.09
13.73	.00	30.39	9.222	3.09
13.77	.00	30.39	9.213	3.09
13.80	.00	30.38	9.205	3.08
13.83	.00	30.38	9.196	3.08
13.87	.00	30.38	9.188	3.08
13.90	.00	30.38	9.179	3.08
13.93	.00	30.38	9.171	3.08
13.97	.00	30.37	9.162	3.07
14.00	.00	30.37	9.154	3.07
14.03	.00	30.37	9.145	3.07
14.07	.00	30.37	9.137	3.07
14.10	.00	30.37	9.129	3.07
14.13	.00	30.36	9.120	3.06
14.17	.00	30.36	9.112	3.06
14.20	.00	30.36	9.103	3.06
14.23	.00	30.36	9.095	3.06
14.27	.00	30.36	9.086	3.06
14.30	.00	30.35	9.078	3.05
14.33	.00	30.35	9.070	3.05
14.37	.00	30.35	9.061	3.05
14.40	.00	30.35	9.053	3.05
14.43	.00	30.34	9.044	3.04
14.47	.00	30.34	9.036	3.04
14.50	.00	30.34	9.028	3.04
14.53	.00	30.34	9.019	3.04
14.57	.00	30.34	9.011	3.04
14.60	.00	30.33	9.002	3.03
14.63	.00	30.33	8.994	3.03
14.67	.00	30.33	8.986	3.03
14.70	.00	30.33	8.977	3.03
14.73	.00	30.33	8.969	3.03
14.77	.00	30.32	8.961	3.02
14.80	.00	30.32	8.952	3.02
14.83	.00	30.32	8.944	3.02
14.87	.00	30.32	8.936	3.02
14.90	.00	30.32	8.927	3.02
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
14.93	.00	30.31	8.919	3.01
14.97	.00	30.31	8.911	3.01
15.00	.00	30.31	8.903	3.01
15.03	.00	30.31	8.894	3.01
15.07	.00	30.31	8.886	3.01
15.10	.00	30.30	8.878	3.00
15.13	.00	30.30	8.869	3.00
15.17	.00	30.30	8.861	3.00
15.20	.00	30.30	8.853	3.00
15.23	.00	30.30	8.845	3.00
15.27	.00	30.29	8.836	2.99
15.30	.00	30.29	8.828	2.99
15.33	.00	30.29	8.820	2.99
15.37	.00	30.29	8.812	2.99
15.40	.00	30.29	8.804	2.99
15.43	.00	30.28	8.795	2.98
15.47	.00	30.28	8.787	2.98
15.50	.00	30.28	8.779	2.98
15.53	.00	30.28	8.771	2.98
15.57	.00	30.28	8.762	2.98
15.60	.00	30.27	8.754	2.97
15.63	.00	30.27	8.746	2.97
15.67	.00	30.27	8.738	2.97
15.70	.00	30.27	8.730	2.97

15.73	.00	30.26	8.722	2.96
15.77	.00	30.26	8.713	2.96
15.80	.00	30.26	8.705	2.96
15.83	.00	30.26	8.697	2.96
15.87	.00	30.26	8.689	2.96
15.90	.00	30.25	8.681	2.95
15.93	.00	30.25	8.673	2.95
15.97	.00	30.25	8.665	2.95
16.00	.00	30.25	8.656	2.95
16.03	.00	30.25	8.648	2.95
16.07	.00	30.24	8.640	2.94
16.10	.00	30.24	8.632	2.94
16.13	.00	30.24	8.624	2.94
16.17	.00	30.24	8.616	2.94
16.20	.00	30.24	8.608	2.94
16.23	.00	30.23	8.600	2.93
16.27	.00	30.23	8.592	2.93
16.30	.00	30.23	8.584	2.93
16.33	.00	30.23	8.575	2.93
16.37	.00	30.23	8.567	2.93
16.40	.00	30.22	8.559	2.92
16.43	.00	30.22	8.551	2.92
16.47	.00	30.22	8.543	2.92
16.50	.00	30.22	8.535	2.92
16.53	.00	30.22	8.527	2.92
16.57	.00	30.21	8.519	2.91
16.60	.00	30.21	8.511	2.91
16.63	.00	30.21	8.503	2.91
16.67	.00	30.21	8.495	2.91
16.70	.00	30.21	8.487	2.91
16.73	.00	30.20	8.479	2.90
16.76	.00	30.20	8.471	2.90

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
16.80	.00	30.20	8.463	2.90
16.83	.00	30.20	8.455	2.90
16.86	.00	30.20	8.447	2.90
16.90	.00	30.19	8.439	2.89
16.93	.00	30.19	8.431	2.89
16.96	.00	30.19	8.423	2.89
17.00	.00	30.19	8.415	2.89
17.03	.00	30.19	8.407	2.89
17.06	.00	30.19	8.399	2.89
17.10	.00	30.18	8.391	2.88
17.13	.00	30.18	8.383	2.88
17.16	.00	30.18	8.375	2.88
17.20	.00	30.18	8.368	2.88
17.23	.00	30.18	8.360	2.88
17.26	.00	30.17	8.352	2.87
17.30	.00	30.17	8.344	2.87
17.33	.00	30.17	8.336	2.87
17.36	.00	30.17	8.328	2.87
17.40	.00	30.17	8.320	2.87
17.43	.00	30.16	8.312	2.86
17.46	.00	30.16	8.304	2.86
17.50	.00	30.16	8.296	2.86
17.53	.00	30.16	8.289	2.86
17.56	.00	30.16	8.281	2.86
17.60	.00	30.15	8.273	2.85
17.63	.00	30.15	8.265	2.85
17.66	.00	30.15	8.257	2.85
17.70	.00	30.15	8.249	2.85
17.73	.00	30.15	8.241	2.85
17.76	.00	30.14	8.234	2.84
17.80	.00	30.14	8.226	2.84
17.83	.00	30.14	8.218	2.84

17.86	.00	30.14	8.210	2.84
17.90	.00	30.14	8.202	2.84
17.93	.00	30.13	8.195	2.83
17.96	.00	30.13	8.187	2.83
18.00	.00	30.13	8.179	2.83
18.03	.00	30.13	8.171	2.83
18.06	.00	30.13	8.163	2.83
18.10	.00	30.12	8.156	2.82
18.13	.00	30.12	8.148	2.82
18.16	.00	30.12	8.140	2.82
18.20	.00	30.12	8.132	2.82
18.23	.00	30.12	8.124	2.82
18.26	.00	30.11	8.117	2.81
18.30	.00	30.11	8.109	2.81
18.33	.00	30.11	8.101	2.81
18.36	.00	30.11	8.093	2.81
18.40	.00	30.11	8.086	2.81
18.43	.00	30.11	8.078	2.81
18.46	.00	30.10	8.070	2.80
18.50	.00	30.10	8.063	2.80
18.53	.00	30.10	8.055	2.80
18.56	.00	30.10	8.047	2.80
18.60	.00	30.10	8.039	2.80
18.63	.00	30.09	8.032	2.79

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	30.09	8.024	2.79
18.70	.00	30.09	8.016	2.79
18.73	.00	30.09	8.009	2.79
18.76	.00	30.09	8.001	2.79
18.80	.00	30.08	7.993	2.78
18.83	.00	30.08	7.986	2.78
18.86	.00	30.08	7.978	2.78
18.90	.00	30.08	7.970	2.78
18.93	.00	30.08	7.963	2.78
18.96	.00	30.07	7.955	2.77
19.00	.00	30.07	7.947	2.77
19.03	.00	30.07	7.940	2.77
19.06	.00	30.07	7.932	2.77
19.10	.00	30.07	7.924	2.77
19.13	.00	30.07	7.917	2.77
19.16	.00	30.06	7.909	2.76
19.20	.00	30.06	7.902	2.76
19.23	.00	30.06	7.894	2.76
19.26	.00	30.06	7.886	2.76
19.30	.00	30.06	7.879	2.76
19.33	.00	30.05	7.871	2.75
19.36	.00	30.05	7.864	2.75
19.40	.00	30.05	7.856	2.75
19.43	.00	30.05	7.849	2.75
19.46	.00	30.05	7.841	2.75
19.50	.00	30.04	7.833	2.74
19.53	.00	30.04	7.826	2.74
19.56	.00	30.04	7.818	2.74
19.60	.00	30.04	7.811	2.74
19.63	.00	30.04	7.803	2.74
19.66	.00	30.04	7.796	2.74
19.70	.00	30.03	7.788	2.73
19.73	.00	30.03	7.781	2.73
19.76	.00	30.03	7.773	2.73
19.80	.00	30.03	7.766	2.73
19.83	.00	30.03	7.758	2.73
19.86	.00	30.02	7.751	2.72
19.90	.00	30.02	7.743	2.72
19.93	.00	30.02	7.736	2.72
19.96	.00	30.02	7.728	2.72

PEAK DISCHARGE = 3.674 CFS - PEAK OCCURS AT HOUR 3.83
 MAXIMUM WATER SURFACE ELEVATION = 30.974
 MAXIMUM STORAGE = 11.5810 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=33 CODE=1

HYDROGRAPH FROM AREA 300.30

RUNOFF VOLUME = .67201 INCHES = 4.9075 ACRE-Feet
 PEAK DISCHARGE RATE = 3.67 CFS AT 3.833 HOURS BASIN AREA = .1369 SQ. MI.

*S BASIN 310
 * PROPOSED BASIN NORTH OF RIO BRAVO

COMPUTE NM HYD ID=50 HYD NO=310.00 AREA=0.0928804 SQ MI
 PER A=0 PER B=05 PER C=10 PER D=85

TP=-0.1333 HR MASS RAIN=-1

K = .073009HR TP = .133300HR K/TP RATIO = .547703 SHAPE CONSTANT, N = 7.061553
UNIT PEAK = 310.44 CFS UNIT VOLUME = .9993 B = 524.16 P60 = 2.0100
AREA = .078948 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .114555HR TP = .133300HR K/TP RATIO = .859375 SHAPE CONSTANT, N = 4.138132
UNIT PEAK = 38.073 CFS UNIT VOLUME = .9999 B = 364.28 P60 = 2.0100
AREA = .013932 SQ MI IA = .40000 INCHES INF = .97000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=50 CODE=1

HYDROGRAPH FROM AREA 310.00

RUNOFF VOLUME = 1.92140 INCHES = 9.5178 ACRE-FEET
PEAK DISCHARGE RATE = 262.04 CFS AT 1.500 HOURS BASIN AREA = .0929 SQ. MI.

*S SOUTH DETENTION POND

ROUTE RESERVOIR ID=51 HYD NO=310.10 INFLOW ID=50 CODE=1
OUTFLOW(CFS) STORAGE(AF) ELEV(FT)

0.0	0.000000	28
0.7	2.720511	29
2.7	5.548944	30
3.7	8.486591	31
4.3	11.534744	32

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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.00	.00	28.00	.000	.00
.03	.00	28.00	.000	.00
.07	.00	28.00	.000	.00
.10	.00	28.00	.000	.00
.13	.00	28.00	.000	.00
.17	.00	28.00	.000	.00
.20	.00	28.00	.000	.00
.23	.00	28.00	.000	.00
.27	.00	28.00	.000	.00
.30	.00	28.00	.000	.00
.33	.00	28.00	.000	.00
.37	.00	28.00	.000	.00
.40	.00	28.00	.000	.00
.43	.00	28.00	.000	.00
.47	.00	28.00	.000	.00
.50	.00	28.00	.000	.00
.53	.00	28.00	.000	.00
.57	.00	28.00	.000	.00
.60	.00	28.00	.000	.00
.63	.00	28.00	.000	.00
.67	.00	28.00	.000	.00
.70	.00	28.00	.000	.00
.73	.00	28.00	.000	.00
.77	.00	28.00	.000	.00
.80	.00	28.00	.000	.00
.83	.00	28.00	.000	.00
.87	.00	28.00	.000	.00
.90	.00	28.00	.000	.00
.93	.00	28.00	.000	.00
.97	.00	28.00	.000	.00
1.00	.00	28.00	.000	.00
1.03	.00	28.00	.000	.00
1.07	.00	28.00	.000	.00
1.10	.00	28.00	.000	.00
1.13	.00	28.00	.000	.00
1.17	.16	28.00	.000	.00
1.20	2.59	28.00	.004	.00
1.23	10.71	28.01	.022	.01
1.27	25.63	28.03	.072	.02
1.30	46.50	28.06	.172	.04
1.33	73.13	28.12	.336	.09
1.37	106.52	28.21	.583	.15
1.40	147.16	28.34	.932	.24
1.43	194.26	28.52	1.402	.36
1.47	239.60	28.73	1.998	.51
1.50	262.04	28.99	2.687	.69
1.53	250.05	29.24	3.390	1.17
1.57	216.99	29.46	4.029	1.63
1.60	181.90	29.66	4.574	2.01
1.63	154.21	29.82	5.030	2.33

1.67	133.73	29.95	5.420	2.61
1.70	118.70	30.07	5.760	2.77
1.73	107.75	30.18	6.065	2.88
1.77	99.52	30.27	6.342	2.97
1.80	92.39	30.36	6.598	3.06
1.83	86.10	30.44	6.835	3.14

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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1.87	80.47	30.51	7.056	3.21
1.90	75.32	30.58	7.262	3.28
1.93	70.56	30.65	7.453	3.35
1.97	66.16	30.71	7.632	3.41
2.00	62.12	30.77	7.800	3.47
2.03	58.26	30.82	7.956	3.52
2.07	52.85	30.87	8.099	3.57
2.10	44.67	30.91	8.223	3.61
2.13	35.63	30.94	8.324	3.64
2.17	28.05	30.97	8.402	3.67
2.20	22.69	30.99	8.461	3.69
2.23	18.98	31.01	8.509	3.70
2.27	16.34	31.02	8.547	3.71
2.30	14.42	31.03	8.579	3.72
2.33	12.96	31.04	8.607	3.72
2.37	11.68	31.05	8.630	3.73
2.40	10.56	31.05	8.651	3.73
2.43	9.58	31.06	8.668	3.74
2.47	8.71	31.06	8.683	3.74
2.50	7.93	31.07	8.696	3.74
2.53	7.23	31.07	8.706	3.74
2.57	6.62	31.07	8.715	3.74
2.60	6.09	31.08	8.722	3.75
2.63	5.61	31.08	8.728	3.75
2.67	5.19	31.08	8.733	3.75
2.70	4.80	31.08	8.736	3.75
2.73	4.47	31.08	8.738	3.75
2.77	4.16	31.08	8.740	3.75
2.80	3.88	31.08	8.741	3.75
2.83	3.62	31.08	8.741	3.75
2.87	3.38	31.08	8.740	3.75
2.90	3.17	31.08	8.739	3.75
2.93	2.99	31.08	8.737	3.75
2.97	2.82	31.08	8.735	3.75
3.00	2.66	31.08	8.732	3.75
3.03	2.52	31.08	8.729	3.75
3.07	2.39	31.08	8.725	3.75
3.10	2.27	31.08	8.721	3.75
3.13	2.16	31.08	8.717	3.75
3.17	2.07	31.07	8.712	3.74
3.20	1.99	31.07	8.708	3.74
3.23	1.92	31.07	8.703	3.74
3.27	1.84	31.07	8.698	3.74
3.30	1.77	31.07	8.692	3.74

3.33	1.71	31.07	8.687	3.74
3.37	1.66	31.06	8.681	3.74
3.40	1.61	31.06	8.675	3.74
3.43	1.58	31.06	8.669	3.74
3.47	1.55	31.06	8.663	3.73
3.50	1.51	31.06	8.657	3.73
3.53	1.46	31.05	8.651	3.73
3.57	1.42	31.05	8.645	3.73
3.60	1.39	31.05	8.638	3.73
3.63	1.37	31.05	8.632	3.73
3.67	1.35	31.05	8.625	3.73
3.70	1.33	31.04	8.619	3.73

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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3.73	1.31	31.04	8.612	3.72
3.77	1.29	31.04	8.606	3.72
3.80	1.27	31.04	8.599	3.72
3.83	1.25	31.03	8.592	3.72
3.87	1.24	31.03	8.585	3.72
3.90	1.23	31.03	8.578	3.72
3.93	1.22	31.03	8.572	3.72
3.97	1.20	31.03	8.565	3.72
4.00	1.18	31.02	8.558	3.71
4.03	1.17	31.02	8.551	3.71
4.07	1.16	31.02	8.544	3.71
4.10	1.15	31.02	8.537	3.71
4.13	1.15	31.01	8.530	3.71
4.17	1.15	31.01	8.523	3.71
4.20	1.16	31.01	8.516	3.71
4.23	1.16	31.01	8.509	3.70
4.27	1.15	31.00	8.502	3.70
4.30	1.14	31.00	8.495	3.70
4.33	1.13	31.00	8.487	3.70
4.37	1.13	31.00	8.480	3.70
4.40	1.14	31.00	8.473	3.70
4.43	1.14	30.99	8.466	3.69
4.47	1.14	30.99	8.459	3.69
4.50	1.14	30.99	8.452	3.69
4.53	1.14	30.99	8.445	3.69
4.57	1.14	30.98	8.438	3.68
4.60	1.14	30.98	8.431	3.68
4.63	1.15	30.98	8.424	3.68
4.67	1.16	30.98	8.417	3.68
4.70	1.16	30.97	8.410	3.67
4.73	1.16	30.97	8.403	3.67
4.77	1.17	30.97	8.397	3.67
4.80	1.17	30.97	8.390	3.67
4.83	1.16	30.96	8.383	3.66
4.87	1.16	30.96	8.376	3.66
4.90	1.17	30.96	8.369	3.66
4.93	1.18	30.96	8.362	3.66
4.97	1.20	30.96	8.355	3.66
5.00	1.21	30.95	8.349	3.65
5.03	1.21	30.95	8.342	3.65
5.07	1.21	30.95	8.335	3.65
5.10	1.22	30.95	8.328	3.65
5.13	1.23	30.94	8.322	3.64
5.17	1.24	30.94	8.315	3.64
5.20	1.24	30.94	8.309	3.64
5.23	1.25	30.94	8.302	3.64
5.27	1.26	30.93	8.295	3.63
5.30	1.27	30.93	8.289	3.63
5.33	1.29	30.93	8.282	3.63
5.37	1.30	30.93	8.276	3.63
5.40	1.30	30.93	8.270	3.63
5.43	1.31	30.92	8.263	3.62
5.47	1.33	30.92	8.257	3.62
5.50	1.34	30.92	8.251	3.62
5.53	1.34	30.92	8.244	3.62
5.57	1.35	30.92	8.238	3.62

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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5.60	1.37	30.91	8.232	3.61
5.63	1.38	30.91	8.226	3.61
5.67	1.38	30.91	8.219	3.61
5.70	1.39	30.91	8.213	3.61
5.73	1.41	30.90	8.207	3.60
5.77	1.42	30.90	8.201	3.60
5.80	1.43	30.90	8.195	3.60
5.83	1.44	30.90	8.189	3.60
5.87	1.45	30.90	8.183	3.60
5.90	1.47	30.89	8.178	3.59
5.93	1.48	30.89	8.172	3.59
5.97	1.50	30.89	8.166	3.59
6.00	1.51	30.89	8.160	3.59
6.03	1.52	30.89	8.154	3.59

6.07	1.43	30.88	8.149	3.58
6.10	1.18	30.88	8.142	3.58
6.13	.87	30.88	8.135	3.58
6.17	.60	30.88	8.127	3.58
6.20	.42	30.87	8.119	3.57
6.23	.31	30.87	8.110	3.57
6.27	.24	30.87	8.101	3.57
6.30	.20	30.87	8.092	3.57
6.33	.17	30.86	8.083	3.56
6.37	.15	30.86	8.073	3.56
6.40	.12	30.86	8.064	3.56
6.43	.11	30.85	8.054	3.55
6.47	.09	30.85	8.045	3.55
6.50	.08	30.85	8.035	3.55
6.53	.07	30.84	8.026	3.54
6.57	.06	30.84	8.016	3.54
6.60	.05	30.84	8.007	3.54
6.63	.04	30.83	7.997	3.53
6.67	.04	30.83	7.987	3.53
6.70	.03	30.83	7.978	3.53
6.73	.03	30.82	7.968	3.52
6.77	.02	30.82	7.958	3.52
6.80	.02	30.82	7.949	3.52
6.83	.02	30.81	7.939	3.51
6.87	.01	30.81	7.930	3.51
6.90	.01	30.81	7.920	3.51
6.93	.01	30.80	7.910	3.50
6.97	.01	30.80	7.901	3.50
7.00	.01	30.80	7.891	3.50
7.03	.01	30.79	7.881	3.49
7.07	.01	30.79	7.872	3.49
7.10	.01	30.79	7.862	3.49
7.13	.00	30.78	7.853	3.48
7.17	.00	30.78	7.843	3.48
7.20	.00	30.78	7.834	3.48
7.23	.00	30.77	7.824	3.47
7.27	.00	30.77	7.814	3.47
7.30	.00	30.77	7.805	3.47
7.33	.00	30.76	7.795	3.46
7.37	.00	30.76	7.786	3.46
7.40	.00	30.76	7.776	3.46
7.43	.00	30.75	7.767	3.45

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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7.47	.00	30.75	7.757	3.45
7.50	.00	30.75	7.748	3.45
7.53	.00	30.75	7.738	3.45
7.57	.00	30.74	7.729	3.44
7.60	.00	30.74	7.719	3.44
7.63	.00	30.74	7.710	3.44
7.67	.00	30.73	7.700	3.43
7.70	.00	30.73	7.691	3.43
7.73	.00	30.73	7.681	3.43
7.77	.00	30.72	7.672	3.42
7.80	.00	30.72	7.663	3.42
7.83	.00	30.72	7.653	3.42
7.87	.00	30.71	7.644	3.41
7.90	.00	30.71	7.634	3.41
7.93	.00	30.71	7.625	3.41
7.97	.00	30.70	7.616	3.40
8.00	.00	30.70	7.606	3.40
8.03	.00	30.70	7.597	3.40
8.07	.00	30.69	7.587	3.39
8.10	.00	30.69	7.578	3.39
8.13	.00	30.69	7.569	3.39
8.17	.00	30.68	7.559	3.38
8.20	.00	30.68	7.550	3.38
8.23	.00	30.68	7.541	3.38
8.27	.00	30.67	7.532	3.37
8.30	.00	30.67	7.522	3.37
8.33	.00	30.67	7.513	3.37
8.37	.00	30.67	7.504	3.37
8.40	.00	30.66	7.494	3.36
8.43	.00	30.66	7.485	3.36
8.47	.00	30.66	7.476	3.36
8.50	.00	30.65	7.467	3.35
8.53	.00	30.65	7.457	3.35
8.57	.00	30.65	7.448	3.35
8.60	.00	30.64	7.439	3.34
8.63	.00	30.64	7.430	3.34
8.67	.00	30.64	7.421	3.34
8.70	.00	30.63	7.411	3.33
8.73	.00	30.63	7.402	3.33
8.77	.00	30.63	7.393	3.33
8.80	.00	30.62	7.384	3.32
8.83	.00	30.62	7.375	3.32
8.87	.00	30.62	7.366	3.32
8.90	.00	30.62	7.356	3.32

8.93	.00	30.61	7.347	3.31
8.97	.00	30.61	7.338	3.31
9.00	.00	30.61	7.329	3.31
9.03	.00	30.60	7.320	3.30
9.07	.00	30.60	7.311	3.30
9.10	.00	30.60	7.302	3.30
9.13	.00	30.59	7.293	3.29
9.17	.00	30.59	7.284	3.29
9.20	.00	30.59	7.275	3.29
9.23	.00	30.58	7.266	3.28
9.27	.00	30.58	7.257	3.28
9.30	.00	30.58	7.248	3.28

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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9.33	.00	30.58	7.238	3.28
9.37	.00	30.57	7.229	3.27
9.40	.00	30.57	7.220	3.27
9.43	.00	30.57	7.211	3.27
9.47	.00	30.56	7.202	3.26
9.50	.00	30.56	7.193	3.26
9.53	.00	30.56	7.185	3.26
9.57	.00	30.55	7.176	3.25
9.60	.00	30.55	7.167	3.25
9.63	.00	30.55	7.158	3.25
9.67	.00	30.54	7.149	3.24
9.70	.00	30.54	7.140	3.24
9.73	.00	30.54	7.131	3.24
9.77	.00	30.54	7.122	3.24
9.80	.00	30.53	7.113	3.23
9.83	.00	30.53	7.104	3.23
9.87	.00	30.53	7.095	3.23
9.90	.00	30.52	7.086	3.22
9.93	.00	30.52	7.077	3.22
9.97	.00	30.52	7.069	3.22
10.00	.00	30.51	7.060	3.21
10.03	.00	30.51	7.051	3.21
10.07	.00	30.51	7.042	3.21
10.10	.00	30.51	7.033	3.21
10.13	.00	30.50	7.024	3.20
10.17	.00	30.50	7.016	3.20
10.20	.00	30.50	7.007	3.20
10.23	.00	30.49	6.998	3.19
10.27	.00	30.49	6.989	3.19
10.30	.00	30.49	6.980	3.19
10.33	.00	30.48	6.972	3.18
10.37	.00	30.48	6.963	3.18
10.40	.00	30.48	6.954	3.18
10.43	.00	30.48	6.945	3.18
10.47	.00	30.47	6.937	3.17
10.50	.00	30.47	6.928	3.17
10.53	.00	30.47	6.919	3.17
10.57	.00	30.46	6.910	3.16
10.60	.00	30.46	6.902	3.16
10.63	.00	30.46	6.893	3.16
10.67	.00	30.45	6.884	3.15
10.70	.00	30.45	6.876	3.15
10.73	.00	30.45	6.867	3.15
10.77	.00	30.45	6.858	3.15
10.80	.00	30.44	6.850	3.14
10.83	.00	30.44	6.841	3.14
10.87	.00	30.44	6.832	3.14
10.90	.00	30.43	6.824	3.13
10.93	.00	30.43	6.815	3.13
10.97	.00	30.43	6.806	3.13
11.00	.00	30.43	6.798	3.13
11.03	.00	30.42	6.789	3.12
11.07	.00	30.42	6.781	3.12
11.10	.00	30.42	6.772	3.12
11.13	.00	30.41	6.763	3.11
11.17	.00	30.41	6.755	3.11

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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11.20	.00	30.41	6.746	3.11
11.23	.00	30.40	6.738	3.10
11.27	.00	30.40	6.729	3.10
11.30	.00	30.40	6.721	3.10
11.33	.00	30.40	6.712	3.10
11.37	.00	30.39	6.704	3.09
11.40	.00	30.39	6.695	3.09
11.43	.00	30.39	6.687	3.09
11.47	.00	30.38	6.678	3.08
11.50	.00	30.38	6.670	3.08
11.53	.00	30.38	6.661	3.08
11.57	.00	30.38	6.653	3.08
11.60	.00	30.37	6.644	3.07
11.63	.00	30.37	6.636	3.07

11.67	.00	30.37	6.627	3.07
11.70	.00	30.36	6.619	3.06
11.73	.00	30.36	6.610	3.06
11.77	.00	30.36	6.602	3.06
11.80	.00	30.36	6.594	3.06
11.83	.00	30.35	6.585	3.05
11.87	.00	30.35	6.577	3.05
11.90	.00	30.35	6.568	3.05
11.93	.00	30.34	6.560	3.04
11.97	.00	30.34	6.552	3.04
12.00	.00	30.34	6.543	3.04
12.03	.00	30.34	6.535	3.04
12.07	.00	30.33	6.526	3.03
12.10	.00	30.33	6.518	3.03
12.13	.00	30.33	6.510	3.03
12.17	.00	30.32	6.501	3.02
12.20	.00	30.32	6.493	3.02
12.23	.00	30.32	6.485	3.02
12.27	.00	30.32	6.476	3.02
12.30	.00	30.31	6.468	3.01
12.33	.00	30.31	6.460	3.01
12.37	.00	30.31	6.452	3.01
12.40	.00	30.30	6.443	3.00
12.43	.00	30.30	6.435	3.00
12.47	.00	30.30	6.427	3.00
12.50	.00	30.30	6.419	3.00
12.53	.00	30.29	6.410	2.99
12.57	.00	30.29	6.402	2.99
12.60	.00	30.29	6.394	2.99
12.63	.00	30.28	6.386	2.98
12.67	.00	30.28	6.377	2.98
12.70	.00	30.28	6.369	2.98
12.73	.00	30.28	6.361	2.98
12.77	.00	30.27	6.353	2.97
12.80	.00	30.27	6.345	2.97
12.83	.00	30.27	6.336	2.97
12.87	.00	30.27	6.328	2.97
12.90	.00	30.26	6.320	2.96
12.93	.00	30.26	6.312	2.96
12.97	.00	30.26	6.304	2.96
13.00	.00	30.25	6.296	2.95
13.03	.00	30.25	6.287	2.95

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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13.07	.00	30.25	6.279	2.95
13.10	.00	30.25	6.271	2.95
13.13	.00	30.24	6.263	2.94
13.17	.00	30.24	6.255	2.94
13.20	.00	30.24	6.247	2.94
13.23	.00	30.23	6.239	2.93
13.27	.00	30.23	6.231	2.93
13.30	.00	30.23	6.223	2.93
13.33	.00	30.23	6.215	2.93
13.37	.00	30.22	6.207	2.92
13.40	.00	30.22	6.198	2.92
13.43	.00	30.22	6.190	2.92
13.47	.00	30.22	6.182	2.92
13.50	.00	30.21	6.174	2.91
13.53	.00	30.21	6.166	2.91
13.57	.00	30.21	6.158	2.91
13.60	.00	30.20	6.150	2.90
13.63	.00	30.20	6.142	2.90
13.67	.00	30.20	6.134	2.90
13.70	.00	30.20	6.126	2.90
13.73	.00	30.19	6.118	2.89
13.77	.00	30.19	6.110	2.89
13.80	.00	30.19	6.102	2.89
13.83	.00	30.19	6.095	2.89
13.87	.00	30.18	6.087	2.88
13.90	.00	30.18	6.079	2.88
13.93	.00	30.18	6.071	2.88
13.97	.00	30.17	6.063	2.87
14.00	.00	30.17	6.055	2.87
14.03	.00	30.17	6.047	2.87
14.07	.00	30.17	6.039	2.87
14.10	.00	30.16	6.031	2.86
14.13	.00	30.16	6.023	2.86
14.17	.00	30.16	6.015	2.86
14.20	.00	30.16	6.008	2.86
14.23	.00	30.15	6.000	2.85
14.27	.00	30.15	5.992	2.85
14.30	.00	30.15	5.984	2.85
14.33	.00	30.15	5.976	2.85
14.37	.00	30.14	5.968	2.84
14.40	.00	30.14	5.960	2.84
14.43	.00	30.14	5.953	2.84
14.47	.00	30.13	5.945	2.83
14.50	.00	30.13	5.937	2.83

14.53	.00	30.13	5.929	2.83
14.57	.00	30.13	5.921	2.83
14.60	.00	30.12	5.914	2.82
14.63	.00	30.12	5.906	2.82
14.67	.00	30.12	5.898	2.82
14.70	.00	30.12	5.890	2.82
14.73	.00	30.11	5.883	2.81
14.77	.00	30.11	5.875	2.81
14.80	.00	30.11	5.867	2.81
14.83	.00	30.11	5.859	2.81
14.87	.00	30.10	5.852	2.80
14.90	.00	30.10	5.844	2.80

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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14.93	.00	30.10	5.836	2.80
14.97	.00	30.10	5.829	2.80
15.00	.00	30.09	5.821	2.79
15.03	.00	30.09	5.813	2.79
15.07	.00	30.09	5.805	2.79
15.10	.00	30.08	5.798	2.78
15.13	.00	30.08	5.790	2.78
15.17	.00	30.08	5.782	2.78
15.20	.00	30.08	5.775	2.78
15.23	.00	30.07	5.767	2.77
15.27	.00	30.07	5.760	2.77
15.30	.00	30.07	5.752	2.77
15.33	.00	30.07	5.744	2.77
15.37	.00	30.06	5.737	2.76
15.40	.00	30.06	5.729	2.76
15.43	.00	30.06	5.721	2.76
15.47	.00	30.06	5.714	2.76
15.50	.00	30.05	5.706	2.75
15.53	.00	30.05	5.699	2.75
15.57	.00	30.05	5.691	2.75
15.60	.00	30.05	5.684	2.75
15.63	.00	30.04	5.676	2.74
15.67	.00	30.04	5.668	2.74
15.70	.00	30.04	5.661	2.74
15.73	.00	30.04	5.653	2.74
15.77	.00	30.03	5.646	2.73
15.80	.00	30.03	5.638	2.73
15.83	.00	30.03	5.631	2.73
15.87	.00	30.03	5.623	2.73
15.90	.00	30.02	5.616	2.72
15.93	.00	30.02	5.608	2.72
15.97	.00	30.02	5.601	2.72
16.00	.00	30.02	5.593	2.72
16.03	.00	30.01	5.586	2.71
16.07	.00	30.01	5.578	2.71
16.10	.00	30.01	5.571	2.71
16.13	.00	30.00	5.563	2.70
16.17	.00	30.00	5.556	2.70
16.20	.00	30.00	5.549	2.70
16.23	.00	30.00	5.541	2.69
16.27	.00	29.99	5.534	2.69
16.30	.00	29.99	5.526	2.68
16.33	.00	29.99	5.519	2.68
16.37	.00	29.99	5.512	2.67
16.40	.00	29.98	5.504	2.67
16.43	.00	29.98	5.497	2.66
16.47	.00	29.98	5.489	2.66
16.50	.00	29.98	5.482	2.65
16.53	.00	29.97	5.475	2.65
16.57	.00	29.97	5.468	2.64
16.60	.00	29.97	5.460	2.64
16.63	.00	29.97	5.453	2.63
16.67	.00	29.96	5.446	2.63
16.70	.00	29.96	5.439	2.62
16.73	.00	29.96	5.431	2.62
16.76	.00	29.96	5.424	2.61

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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16.80	.00	29.95	5.417	2.61
16.83	.00	29.95	5.410	2.60
16.86	.00	29.95	5.403	2.60
16.90	.00	29.95	5.396	2.59
16.93	.00	29.94	5.388	2.59
16.96	.00	29.94	5.381	2.58
17.00	.00	29.94	5.374	2.58
17.03	.00	29.94	5.367	2.57
17.06	.00	29.93	5.360	2.57
17.10	.00	29.93	5.353	2.56
17.13	.00	29.93	5.346	2.56
17.16	.00	29.93	5.339	2.55

PEAK DISCHARGE = 3.750 CFS - PEAK OCCURS AT HOUR 2.80
 MAXIMUM WATER SURFACE ELEVATION = 31.083

17.20	.00	29.92	5.332	2.55
17.23	.00	29.92	5.325	2.54
17.26	.00	29.92	5.318	2.54
17.30	.00	29.92	5.311	2.53
17.33	.00	29.91	5.304	2.53
17.36	.00	29.91	5.297	2.52
17.40	.00	29.91	5.290	2.52
17.43	.00	29.91	5.283	2.51
17.46	.00	29.90	5.276	2.51
17.50	.00	29.90	5.269	2.50
17.53	.00	29.90	5.262	2.50
17.56	.00	29.90	5.255	2.49
17.60	.00	29.89	5.249	2.49
17.63	.00	29.89	5.242	2.48
17.66	.00	29.89	5.235	2.48
17.70	.00	29.89	5.228	2.47
17.73	.00	29.88	5.221	2.47
17.76	.00	29.88	5.215	2.46
17.80	.00	29.88	5.208	2.46
17.83	.00	29.88	5.201	2.45
17.86	.00	29.87	5.194	2.45
17.90	.00	29.87	5.187	2.44
17.93	.00	29.87	5.181	2.44
17.96	.00	29.87	5.174	2.43
18.00	.00	29.87	5.167	2.43
18.03	.00	29.86	5.161	2.43
18.06	.00	29.86	5.154	2.42
18.10	.00	29.86	5.147	2.42
18.13	.00	29.86	5.141	2.41
18.16	.00	29.85	5.134	2.41
18.20	.00	29.85	5.127	2.40
18.23	.00	29.85	5.121	2.40
18.26	.00	29.85	5.114	2.39
18.30	.00	29.84	5.108	2.39
18.33	.00	29.84	5.101	2.38
18.36	.00	29.84	5.095	2.38
18.40	.00	29.84	5.088	2.37
18.43	.00	29.83	5.081	2.37
18.46	.00	29.83	5.075	2.36
18.50	.00	29.83	5.068	2.36
18.53	.00	29.83	5.062	2.36
18.56	.00	29.83	5.055	2.35
18.60	.00	29.82	5.049	2.35
18.63	.00	29.82	5.042	2.34

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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18.66	.00	29.82	5.036	2.34
18.70	.00	29.82	5.030	2.33
18.73	.00	29.81	5.023	2.33
18.76	.00	29.81	5.017	2.32
18.80	.00	29.81	5.010	2.32
18.83	.00	29.81	5.004	2.31
18.86	.00	29.81	4.998	2.31
18.90	.00	29.80	4.991	2.31
18.93	.00	29.80	4.985	2.30
18.96	.00	29.80	4.979	2.30
19.00	.00	29.80	4.972	2.29
19.03	.00	29.79	4.966	2.29
19.06	.00	29.79	4.960	2.28
19.10	.00	29.79	4.953	2.28
19.13	.00	29.79	4.947	2.27
19.16	.00	29.79	4.941	2.27
19.20	.00	29.78	4.935	2.27
19.23	.00	29.78	4.928	2.26
19.26	.00	29.78	4.922	2.26
19.30	.00	29.78	4.916	2.25
19.33	.00	29.77	4.910	2.25
19.36	.00	29.77	4.904	2.24
19.40	.00	29.77	4.897	2.24
19.43	.00	29.77	4.891	2.23
19.46	.00	29.77	4.885	2.23
19.50	.00	29.76	4.879	2.23
19.53	.00	29.76	4.873	2.22
19.56	.00	29.76	4.867	2.22
19.60	.00	29.76	4.861	2.21
19.63	.00	29.75	4.855	2.21
19.66	.00	29.75	4.848	2.20
19.70	.00	29.75	4.842	2.20
19.73	.00	29.75	4.836	2.20
19.76	.00	29.75	4.830	2.19
19.80	.00	29.74	4.824	2.19
19.83	.00	29.74	4.818	2.18
19.86	.00	29.74	4.812	2.18
19.90	.00	29.74	4.806	2.17
19.93	.00	29.74	4.800	2.17
19.96	.00	29.73	4.794	2.17

MAXIMUM STORAGE = 8.7407 AC-FT INCREMENTAL TIME= .033330HRS
PRINT HYD ID=51 CODE=1

HYDROGRAPH FROM AREA 310.10

RUNOFF VOLUME = .95417 INCHES = 4.7266 ACRE-FEET
PEAK DISCHARGE RATE = 3.75 CFS AT 2.800 HOURS BASIN AREA = .0929 SQ. MI.

*S BASIN 320
* PROPOSED BASIN EAST OF EXISTING TRACT 2A3A1

COMPUTE NM HYD ID=52 HYD NO=320.00 AREA=0.019736 SQ MI
PER A=0 PER B=05 PER C=10 PER D=85
TP=-0.1333 HR MASS RAIN=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 66.231 CFS UNIT VOLUME = .9992 B = 526.28 P60 = 2.0100
AREA = .016776 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .115660HR TP = .133300HR K/TP RATIO = .867666 SHAPE CONSTANT, N = 4.095337
UNIT PEAK = 8.0279 CFS UNIT VOLUME = .9988 B = 361.48 P60 = 2.0100
AREA = .002960 SQ MI IA = .40000 INCHES INF = .97000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=52 CODE=1

HYDROGRAPH FROM AREA 310.00

RUNOFF VOLUME = 1.92140 INCHES = 2.0224 ACRE-FEET
PEAK DISCHARGE RATE = 55.75 CFS AT 1.500 HOURS BASIN AREA = .0197 SQ. MI.

*S DETENTION POND FOR BASIN 320

ROUTE RESERVOIR ID=53 HYD NO=320.10 INFLOW ID=52 CODE=1
OUTFLOW(CFS) STORAGE(AF) ELEV(FT)
0.0 0.000000 28
0.7 0.615243 29
2.7 1.315427 30
3.7 2.105142 31
4.3 2.988981 32

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	28.00	.000	.00
.03	.00	28.00	.000	.00
.07	.00	28.00	.000	.00
.10	.00	28.00	.000	.00
.13	.00	28.00	.000	.00
.17	.00	28.00	.000	.00
.20	.00	28.00	.000	.00
.23	.00	28.00	.000	.00
.27	.00	28.00	.000	.00
.30	.00	28.00	.000	.00
.33	.00	28.00	.000	.00
.37	.00	28.00	.000	.00
.40	.00	28.00	.000	.00
.43	.00	28.00	.000	.00
.47	.00	28.00	.000	.00
.50	.00	28.00	.000	.00
.53	.00	28.00	.000	.00
.57	.00	28.00	.000	.00
.60	.00	28.00	.000	.00
.63	.00	28.00	.000	.00
.67	.00	28.00	.000	.00
.70	.00	28.00	.000	.00
.73	.00	28.00	.000	.00
.77	.00	28.00	.000	.00
.80	.00	28.00	.000	.00
.83	.00	28.00	.000	.00
.87	.00	28.00	.000	.00
.90	.00	28.00	.000	.00
.93	.00	28.00	.000	.00
.97	.00	28.00	.000	.00
1.00	.00	28.00	.000	.00
1.03	.00	28.00	.000	.00

1.07	.00	28.00	.000	.00
1.10	.00	28.00	.000	.00
1.13	.00	28.00	.000	.00
1.17	.03	28.00	.000	.00
1.20	.55	28.00	.001	.00
1.23	2.27	28.01	.005	.01
1.27	5.45	28.02	.015	.02
1.30	9.89	28.06	.036	.04
1.33	15.56	28.12	.071	.08
1.37	22.67	28.20	.124	.14
1.40	31.31	28.32	.197	.22
1.43	41.32	28.48	.297	.34
1.47	50.97	28.69	.423	.48
1.50	55.75	28.92	.568	.65
1.53	53.19	29.14	.716	.99
1.57	46.13	29.33	.849	1.37
1.60	38.65	29.50	.962	1.69
1.63	32.76	29.63	1.055	1.96
1.67	28.41	29.74	1.134	2.18
1.70	25.22	29.84	1.201	2.37
1.73	22.90	29.92	1.261	2.54
1.77	21.15	30.00	1.314	2.70
1.80	19.64	30.06	1.363	2.76
1.83	18.30	30.12	1.408	2.82
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
1.87	17.10	30.17	1.449	2.87
1.90	16.00	30.22	1.486	2.92
1.93	14.99	30.26	1.521	2.96
1.97	14.05	30.30	1.553	3.00
2.00	13.19	30.34	1.582	3.04
2.03	12.38	30.37	1.609	3.07
2.07	11.23	30.40	1.633	3.10
2.10	9.49	30.43	1.653	3.13

2.13	7.56	30.45	1.667	3.15
2.17	5.95	30.46	1.677	3.16
2.20	4.81	30.47	1.683	3.17
2.23	4.02	30.47	1.687	3.17
2.27	3.46	30.47	1.688	3.17
2.30	3.05	30.47	1.689	3.17
2.33	2.75	30.47	1.688	3.17
2.37	2.47	30.47	1.686	3.17
2.40	2.24	30.47	1.684	3.17
2.43	2.03	30.46	1.681	3.16
2.47	1.84	30.46	1.678	3.16
2.50	1.68	30.45	1.674	3.15
2.53	1.53	30.45	1.670	3.15
2.57	1.40	30.44	1.665	3.14
2.60	1.29	30.44	1.660	3.14
2.63	1.19	30.43	1.655	3.13
2.67	1.10	30.42	1.650	3.12
2.70	1.02	30.42	1.644	3.12
2.73	.95	30.41	1.638	3.11
2.77	.88	30.40	1.632	3.10
2.80	.82	30.39	1.626	3.09
2.83	.77	30.38	1.619	3.08
2.87	.72	30.38	1.613	3.08
2.90	.67	30.37	1.606	3.07
2.93	.63	30.36	1.600	3.06
2.97	.60	30.35	1.593	3.05
3.00	.56	30.34	1.586	3.04
3.03	.53	30.33	1.579	3.03
3.07	.50	30.33	1.573	3.03
3.10	.48	30.32	1.566	3.02
3.13	.45	30.31	1.559	3.01
3.17	.43	30.30	1.551	3.00
3.20	.42	30.29	1.544	2.99
3.23	.40	30.28	1.537	2.98
3.27	.39	30.27	1.530	2.97
3.30	.37	30.26	1.523	2.96
3.33	.36	30.25	1.516	2.95
3.37	.34	30.24	1.509	2.94
3.40	.33	30.24	1.502	2.94
3.43	.33	30.23	1.494	2.93
3.47	.32	30.22	1.487	2.92
3.50	.31	30.21	1.480	2.91
3.53	.30	30.20	1.473	2.90
3.57	.30	30.19	1.466	2.89
3.60	.29	30.18	1.459	2.88
3.63	.28	30.17	1.452	2.87
3.67	.28	30.16	1.444	2.86
3.70	.28	30.15	1.437	2.85

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
3.73	.27	30.15	1.430	2.85
3.77	.27	30.14	1.423	2.84
3.80	.27	30.13	1.416	2.83
3.83	.26	30.12	1.409	2.82
3.87	.26	30.11	1.402	2.81
3.90	.26	30.10	1.395	2.80
3.93	.26	30.09	1.388	2.79
3.97	.26	30.08	1.381	2.78
4.00	.25	30.07	1.374	2.77
4.03	.25	30.07	1.367	2.77
4.07	.25	30.06	1.360	2.76
4.10	.24	30.05	1.353	2.75
4.13	.24	30.04	1.346	2.74
4.17	.24	30.03	1.340	2.73
4.20	.25	30.02	1.333	2.72
4.23	.25	30.01	1.326	2.71
4.27	.24	30.00	1.319	2.70
4.30	.24	30.00	1.312	2.69
4.33	.24	29.99	1.306	2.67
4.37	.24	29.98	1.299	2.65
4.40	.24	29.97	1.292	2.63
4.43	.24	29.96	1.286	2.62
4.47	.24	29.95	1.279	2.60
4.50	.24	29.94	1.273	2.58
4.53	.24	29.93	1.266	2.56
4.57	.24	29.92	1.260	2.54
4.60	.24	29.91	1.254	2.52
4.63	.24	29.90	1.247	2.51
4.67	.25	29.89	1.241	2.49
4.70	.25	29.89	1.235	2.47
4.73	.25	29.88	1.229	2.45
4.77	.25	29.87	1.223	2.44
4.80	.25	29.86	1.217	2.42
4.83	.25	29.85	1.211	2.40
4.87	.25	29.84	1.205	2.38
4.90	.25	29.83	1.199	2.37
4.93	.25	29.83	1.193	2.35
4.97	.25	29.82	1.188	2.34

5.00	.26	29.81	1.182	2.32
5.03	.26	29.80	1.176	2.30
5.07	.26	29.79	1.171	2.29
5.10	.26	29.79	1.165	2.27
5.13	.26	29.78	1.160	2.25
5.17	.26	29.77	1.154	2.24
5.20	.26	29.76	1.149	2.22
5.23	.27	29.75	1.143	2.21
5.27	.27	29.75	1.138	2.19
5.30	.27	29.74	1.133	2.18
5.33	.27	29.73	1.128	2.16
5.37	.28	29.72	1.122	2.15
5.40	.28	29.72	1.117	2.13
5.43	.28	29.71	1.112	2.12
5.47	.28	29.70	1.107	2.10
5.50	.28	29.70	1.102	2.09
5.53	.28	29.69	1.097	2.08
5.57	.29	29.68	1.092	2.06

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
5.60	.29	29.67	1.087	2.05
5.63	.29	29.67	1.083	2.03
5.67	.29	29.66	1.078	2.02
5.70	.30	29.65	1.073	2.01
5.73	.30	29.65	1.068	1.99
5.77	.30	29.64	1.064	1.98
5.80	.30	29.63	1.059	1.97
5.83	.31	29.63	1.054	1.95
5.87	.31	29.62	1.050	1.94
5.90	.31	29.61	1.045	1.93
5.93	.32	29.61	1.041	1.92
5.97	.32	29.60	1.037	1.90
6.00	.32	29.60	1.032	1.89
6.03	.32	29.59	1.028	1.88
6.07	.30	29.58	1.024	1.87
6.10	.25	29.58	1.019	1.85
6.13	.18	29.57	1.015	1.84
6.17	.13	29.56	1.010	1.83
6.20	.09	29.56	1.006	1.81
6.23	.07	29.55	1.001	1.80
6.27	.05	29.54	.996	1.79
6.30	.04	29.54	.991	1.77
6.33	.04	29.53	.986	1.76
6.37	.03	29.52	.982	1.75
6.40	.03	29.52	.977	1.73
6.43	.02	29.51	.972	1.72
6.47	.02	29.50	.968	1.71
6.50	.02	29.50	.963	1.69
6.53	.01	29.49	.958	1.68
6.57	.01	29.48	.954	1.67
6.60	.01	29.48	.949	1.65
6.63	.01	29.47	.945	1.64
6.67	.01	29.46	.940	1.63
6.70	.01	29.46	.936	1.62
6.73	.01	29.45	.931	1.60
6.77	.00	29.45	.927	1.59
6.80	.00	29.44	.923	1.58
6.83	.00	29.43	.918	1.57
6.87	.00	29.43	.914	1.55
6.90	.00	29.42	.910	1.54
6.93	.00	29.41	.906	1.53
6.97	.00	29.41	.901	1.52
7.00	.00	29.40	.897	1.51
7.03	.00	29.40	.893	1.49
7.07	.00	29.39	.889	1.48
7.10	.00	29.39	.885	1.47
7.13	.00	29.38	.881	1.46
7.17	.00	29.37	.877	1.45
7.20	.00	29.37	.873	1.44
7.23	.00	29.36	.869	1.42
7.27	.00	29.36	.865	1.41
7.30	.00	29.35	.861	1.40
7.33	.00	29.35	.857	1.39
7.37	.00	29.34	.854	1.38
7.40	.00	29.33	.850	1.37
7.43	.00	29.33	.846	1.36

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
7.47	.00	29.32	.842	1.35
7.50	.00	29.32	.839	1.34
7.53	.00	29.31	.835	1.33
7.57	.00	29.31	.831	1.32
7.60	.00	29.30	.828	1.31
7.63	.00	29.30	.824	1.30
7.67	.00	29.29	.821	1.29
7.70	.00	29.29	.817	1.28

7.73	.00	29.28	.813	1.27
7.77	.00	29.28	.810	1.26
7.80	.00	29.27	.807	1.25
7.83	.00	29.27	.803	1.24
7.87	.00	29.26	.800	1.23
7.90	.00	29.26	.796	1.22
7.93	.00	29.25	.793	1.21
7.97	.00	29.25	.790	1.20
8.00	.00	29.24	.786	1.19
8.03	.00	29.24	.783	1.18
8.07	.00	29.24	.780	1.17
8.10	.00	29.23	.777	1.16
8.13	.00	29.23	.774	1.15
8.17	.00	29.22	.770	1.14
8.20	.00	29.22	.767	1.13
8.23	.00	29.21	.764	1.13
8.27	.00	29.21	.761	1.12
8.30	.00	29.20	.758	1.11
8.33	.00	29.20	.755	1.10
8.37	.00	29.20	.752	1.09
8.40	.00	29.19	.749	1.08
8.43	.00	29.19	.746	1.07
8.47	.00	29.18	.743	1.07
8.50	.00	29.18	.740	1.06
8.53	.00	29.17	.737	1.05
8.57	.00	29.17	.734	1.04
8.60	.00	29.17	.731	1.03
8.63	.00	29.16	.729	1.02
8.67	.00	29.16	.726	1.02
8.70	.00	29.15	.723	1.01
8.73	.00	29.15	.720	1.00
8.77	.00	29.15	.718	.99
8.80	.00	29.14	.715	.98
8.83	.00	29.14	.712	.98
8.87	.00	29.13	.709	.97
8.90	.00	29.13	.707	.96
8.93	.00	29.13	.704	.95
8.97	.00	29.12	.702	.95
9.00	.00	29.12	.699	.94
9.03	.00	29.12	.696	.93
9.07	.00	29.11	.694	.92
9.10	.00	29.11	.691	.92
9.13	.00	29.10	.689	.91
9.17	.00	29.10	.686	.90
9.20	.00	29.10	.684	.90
9.23	.00	29.09	.681	.89
9.27	.00	29.09	.679	.88
9.30	.00	29.09	.676	.87

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	29.08	.674	.87
9.37	.00	29.08	.672	.86
9.40	.00	29.08	.669	.85
9.43	.00	29.07	.667	.85
9.47	.00	29.07	.665	.84
9.50	.00	29.07	.662	.83
9.53	.00	29.06	.660	.83
9.57	.00	29.06	.658	.82
9.60	.00	29.06	.656	.82
9.63	.00	29.05	.653	.81
9.67	.00	29.05	.651	.80
9.70	.00	29.05	.649	.80
9.73	.00	29.04	.647	.79
9.77	.00	29.04	.645	.78
9.80	.00	29.04	.642	.78
9.83	.00	29.04	.640	.77
9.87	.00	29.03	.638	.77
9.90	.00	29.03	.636	.76
9.93	.00	29.03	.634	.75
9.97	.00	29.02	.632	.75
10.00	.00	29.02	.630	.74
10.03	.00	29.02	.628	.74
10.07	.00	29.02	.626	.73
10.10	.00	29.01	.624	.72
10.13	.00	29.01	.622	.72
10.17	.00	29.01	.620	.71
10.20	.00	29.00	.618	.71
10.23	.00	29.00	.616	.70
10.27	.00	29.00	.614	.70
10.30	.00	28.99	.612	.70
10.33	.00	28.99	.610	.69
10.37	.00	28.99	.608	.69
10.40	.00	28.99	.606	.69
10.43	.00	28.98	.604	.69
10.47	.00	28.98	.603	.69
10.50	.00	28.98	.601	.68
10.53	.00	28.97	.599	.68
10.57	.00	28.97	.597	.68

10.60	.00	28.97	.595	.68
10.63	.00	28.96	.593	.67
10.67	.00	28.96	.591	.67
10.70	.00	28.96	.589	.67
10.73	.00	28.96	.588	.67
10.77	.00	28.95	.586	.67
10.80	.00	28.95	.584	.66
10.83	.00	28.95	.582	.66
10.87	.00	28.94	.580	.66
10.90	.00	28.94	.578	.66
10.93	.00	28.94	.577	.66
10.97	.00	28.93	.575	.65
11.00	.00	28.93	.573	.65
11.03	.00	28.93	.571	.65
11.07	.00	28.93	.569	.65
11.10	.00	28.92	.568	.65
11.13	.00	28.92	.566	.64
11.17	.00	28.92	.564	.64

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
11.20	.00	28.91	.562	.64
11.23	.00	28.91	.561	.64
11.27	.00	28.91	.559	.64
11.30	.00	28.91	.557	.63
11.33	.00	28.90	.555	.63
11.37	.00	28.90	.554	.63
11.40	.00	28.90	.552	.63
11.43	.00	28.89	.550	.63
11.47	.00	28.89	.548	.62
11.50	.00	28.89	.547	.62
11.53	.00	28.89	.545	.62
11.57	.00	28.88	.543	.62
11.60	.00	28.88	.542	.62
11.63	.00	28.88	.540	.61
11.67	.00	28.87	.538	.61
11.70	.00	28.87	.537	.61
11.73	.00	28.87	.535	.61
11.77	.00	28.87	.533	.61
11.80	.00	28.86	.532	.60
11.83	.00	28.86	.530	.60
11.87	.00	28.86	.528	.60
11.90	.00	28.86	.527	.60
11.93	.00	28.85	.525	.60
11.97	.00	28.85	.523	.60
12.00	.00	28.85	.522	.59
12.03	.00	28.85	.520	.59
12.07	.00	28.84	.518	.59
12.10	.00	28.84	.517	.59
12.13	.00	28.84	.515	.59
12.17	.00	28.83	.514	.58
12.20	.00	28.83	.512	.58
12.23	.00	28.83	.510	.58
12.27	.00	28.83	.509	.58
12.30	.00	28.82	.507	.58
12.33	.00	28.82	.506	.58
12.37	.00	28.82	.504	.57
12.40	.00	28.82	.502	.57
12.43	.00	28.81	.501	.57
12.47	.00	28.81	.499	.57
12.50	.00	28.81	.498	.57
12.53	.00	28.81	.496	.56
12.57	.00	28.80	.495	.56
12.60	.00	28.80	.493	.56
12.63	.00	28.80	.491	.56
12.67	.00	28.80	.490	.56
12.70	.00	28.79	.488	.56
12.73	.00	28.79	.487	.55
12.77	.00	28.79	.485	.55
12.80	.00	28.79	.484	.55
12.83	.00	28.78	.482	.55
12.87	.00	28.78	.481	.55
12.90	.00	28.78	.479	.55
12.93	.00	28.78	.478	.54
12.97	.00	28.77	.476	.54
13.00	.00	28.77	.475	.54
13.03	.00	28.77	.473	.54

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
13.07	.00	28.77	.472	.54
13.10	.00	28.76	.470	.54
13.13	.00	28.76	.469	.53
13.17	.00	28.76	.467	.53
13.20	.00	28.76	.466	.53
13.23	.00	28.76	.465	.53
13.27	.00	28.75	.463	.53
13.30	.00	28.75	.462	.53

13.33	.00	28.75	.460	.52
13.37	.00	28.75	.459	.52
13.40	.00	28.74	.457	.52
13.43	.00	28.74	.456	.52
13.47	.00	28.74	.454	.52
13.50	.00	28.74	.453	.52
13.53	.00	28.73	.452	.51
13.57	.00	28.73	.450	.51
13.60	.00	28.73	.449	.51
13.63	.00	28.73	.447	.51
13.67	.00	28.72	.446	.51
13.70	.00	28.72	.445	.51
13.73	.00	28.72	.443	.50
13.77	.00	28.72	.442	.50
13.80	.00	28.72	.440	.50
13.83	.00	28.71	.439	.50
13.87	.00	28.71	.438	.50
13.90	.00	28.71	.436	.50
13.93	.00	28.71	.435	.49
13.97	.00	28.70	.434	.49
14.00	.00	28.70	.432	.49
14.03	.00	28.70	.431	.49
14.07	.00	28.70	.430	.49
14.10	.00	28.70	.428	.49
14.13	.00	28.69	.427	.49
14.17	.00	28.69	.425	.48
14.20	.00	28.69	.424	.48
14.23	.00	28.69	.423	.48
14.27	.00	28.69	.422	.48
14.30	.00	28.68	.420	.48
14.33	.00	28.68	.419	.48
14.37	.00	28.68	.418	.48
14.40	.00	28.68	.416	.47
14.43	.00	28.67	.415	.47
14.47	.00	28.67	.414	.47
14.50	.00	28.67	.412	.47
14.53	.00	28.67	.411	.47
14.57	.00	28.67	.410	.47
14.60	.00	28.66	.409	.46
14.63	.00	28.66	.407	.46
14.67	.00	28.66	.406	.46
14.70	.00	28.66	.405	.46
14.73	.00	28.66	.403	.46
14.77	.00	28.65	.402	.46
14.80	.00	28.65	.401	.46
14.83	.00	28.65	.400	.45
14.87	.00	28.65	.398	.45
14.90	.00	28.65	.397	.45

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
14.93	.00	28.64	.396	.45
14.97	.00	28.64	.395	.45
15.00	.00	28.64	.393	.45
15.03	.00	28.64	.392	.45
15.07	.00	28.64	.391	.44
15.10	.00	28.63	.390	.44
15.13	.00	28.63	.389	.44
15.17	.00	28.63	.387	.44
15.20	.00	28.63	.386	.44
15.23	.00	28.63	.385	.44
15.27	.00	28.62	.384	.44
15.30	.00	28.62	.382	.44
15.33	.00	28.62	.381	.43
15.37	.00	28.62	.380	.43
15.40	.00	28.62	.379	.43
15.43	.00	28.61	.378	.43
15.47	.00	28.61	.377	.43
15.50	.00	28.61	.375	.43
15.53	.00	28.61	.374	.43
15.57	.00	28.61	.373	.42
15.60	.00	28.60	.372	.42
15.63	.00	28.60	.371	.42
15.67	.00	28.60	.370	.42
15.70	.00	28.60	.368	.42
15.73	.00	28.60	.367	.42
15.77	.00	28.60	.366	.42
15.80	.00	28.59	.365	.42
15.83	.00	28.59	.364	.41
15.87	.00	28.59	.363	.41
15.90	.00	28.59	.362	.41
15.93	.00	28.59	.360	.41
15.97	.00	28.58	.359	.41
16.00	.00	28.58	.358	.41
16.03	.00	28.58	.357	.41
16.07	.00	28.58	.356	.40
16.10	.00	28.58	.355	.40
16.13	.00	28.57	.354	.40
16.17	.00	28.57	.353	.40

16.20	.00	28.57	.351	.40
16.23	.00	28.57	.350	.40
16.27	.00	28.57	.349	.40
16.30	.00	28.57	.348	.40
16.33	.00	28.56	.347	.39
16.37	.00	28.56	.346	.39
16.40	.00	28.56	.345	.39
16.43	.00	28.56	.344	.39
16.47	.00	28.56	.343	.39
16.50	.00	28.56	.342	.39
16.53	.00	28.55	.341	.39
16.57	.00	28.55	.340	.39
16.60	.00	28.55	.338	.39
16.63	.00	28.55	.337	.38
16.67	.00	28.55	.336	.38
16.70	.00	28.55	.335	.38
16.73	.00	28.54	.334	.38
16.76	.00	28.54	.333	.38

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
16.80	.00	28.54	.332	.38
16.83	.00	28.54	.331	.38
16.86	.00	28.54	.330	.38
16.90	.00	28.53	.329	.37
16.93	.00	28.53	.328	.37
16.96	.00	28.53	.327	.37
17.00	.00	28.53	.326	.37
17.03	.00	28.53	.325	.37
17.06	.00	28.53	.324	.37
17.10	.00	28.52	.323	.37
17.13	.00	28.52	.322	.37
17.16	.00	28.52	.321	.37
17.20	.00	28.52	.320	.36
17.23	.00	28.52	.319	.36
17.26	.00	28.52	.318	.36
17.30	.00	28.52	.317	.36
17.33	.00	28.51	.316	.36
17.36	.00	28.51	.315	.36
17.40	.00	28.51	.314	.36
17.43	.00	28.51	.313	.36
17.46	.00	28.51	.312	.35
17.50	.00	28.51	.311	.35
17.53	.00	28.50	.310	.35
17.56	.00	28.50	.309	.35
17.60	.00	28.50	.308	.35
17.63	.00	28.50	.307	.35
17.66	.00	28.50	.306	.35
17.70	.00	28.50	.305	.35
17.73	.00	28.49	.304	.35
17.76	.00	28.49	.303	.35
17.80	.00	28.49	.302	.34
17.83	.00	28.49	.301	.34
17.86	.00	28.49	.300	.34
17.90	.00	28.49	.300	.34
17.93	.00	28.49	.299	.34
17.96	.00	28.48	.298	.34
18.00	.00	28.48	.297	.34
18.03	.00	28.48	.296	.34
18.06	.00	28.48	.295	.34
18.10	.00	28.48	.294	.33
18.13	.00	28.48	.293	.33
18.16	.00	28.47	.292	.33
18.20	.00	28.47	.291	.33
18.23	.00	28.47	.290	.33
18.26	.00	28.47	.289	.33
18.30	.00	28.47	.288	.33
18.33	.00	28.47	.288	.33
18.36	.00	28.47	.287	.33
18.40	.00	28.46	.286	.33
18.43	.00	28.46	.285	.32
18.46	.00	28.46	.284	.32
18.50	.00	28.46	.283	.32
18.53	.00	28.46	.282	.32
18.56	.00	28.46	.281	.32
18.60	.00	28.46	.280	.32
18.63	.00	28.45	.280	.32

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	28.45	.279	.32
18.70	.00	28.45	.278	.32
18.73	.00	28.45	.277	.32
18.76	.00	28.45	.276	.31
18.80	.00	28.45	.275	.31
18.83	.00	28.45	.274	.31
18.86	.00	28.44	.274	.31
18.90	.00	28.44	.273	.31

18.93	.00	28.44	.272	.31	19.46	.00	28.42	.259	.29
18.96	.00	28.44	.271	.31	19.50	.00	28.42	.258	.29
19.00	.00	28.44	.270	.31	19.53	.00	28.42	.257	.29
19.03	.00	28.44	.269	.31	19.56	.00	28.42	.256	.29
19.06	.00	28.44	.268	.31	19.60	.00	28.41	.255	.29
19.10	.00	28.43	.268	.30	19.63	.00	28.41	.254	.29
19.13	.00	28.43	.267	.30	19.66	.00	28.41	.254	.29
19.16	.00	28.43	.266	.30	19.70	.00	28.41	.253	.29
19.20	.00	28.43	.265	.30	19.73	.00	28.41	.252	.29
19.23	.00	28.43	.264	.30	19.76	.00	28.41	.251	.29
19.26	.00	28.43	.263	.30	19.80	.00	28.41	.251	.29
19.30	.00	28.43	.263	.30	19.83	.00	28.41	.250	.28
19.33	.00	28.43	.262	.30	19.86	.00	28.40	.249	.28
19.36	.00	28.42	.261	.30	19.90	.00	28.40	.248	.28
19.40	.00	28.42	.260	.30	19.93	.00	28.40	.247	.28
19.43	.00	28.42	.259	.30	19.96	.00	28.40	.247	.28

PEAK DISCHARGE = 3.173 CFS - PEAK OCCURS AT HOUR 2.30
 MAXIMUM WATER SURFACE ELEVATION = 30.473
 MAXIMUM STORAGE = 1.6886 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=53 CODE=1

HYDROGRAPH FROM AREA 320.10

RUNOFF VOLUME = 1.68743 INCHES = 1.7762 ACRE-FEET
 PEAK DISCHARGE RATE = 3.17 CFS AT 2.300 HOURS BASIN AREA = .0197 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 16:29:50

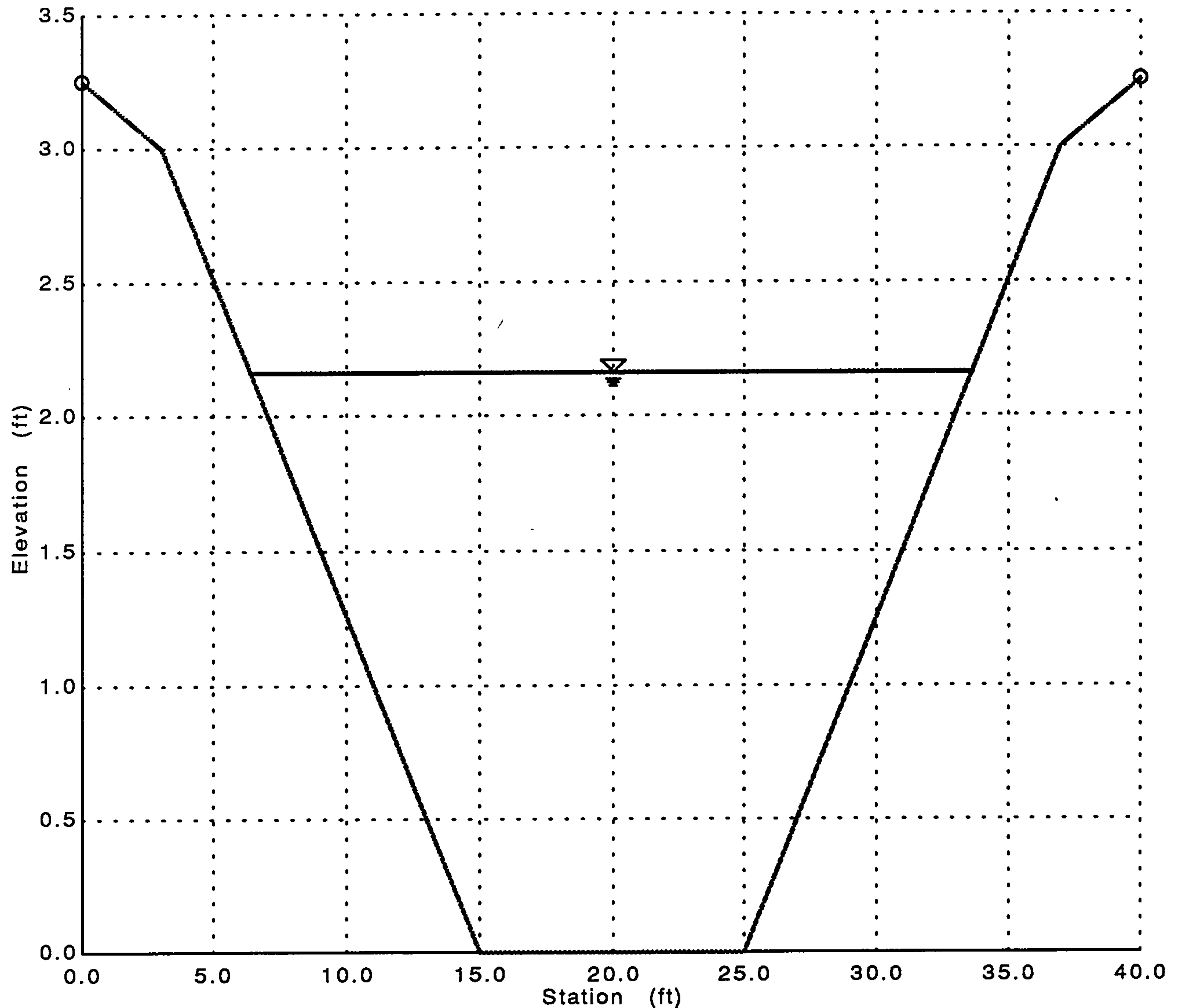
Appendix C

Flow Master Worksheet for Channel Capacity

SCHWARTZMAN - Channel Cross Section
Cross Section for Irregular Channel

Project Description	
Project File	c:\haestad\fmw\schwartz.fm2
Worksheet	Channel 3 for pond overflow
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data	
Wtd. Mannings Coefficient	0.030
Channel Slope	0.001000 ft/ft
Water Surface Elevation	2.17 ft
Discharge	81.11 cfs



SCHWARTZMAN - ABQ AUTO AUCTION OVERFLOW

Worksheet for Irregular Channel

Project Description	
Project File	c:\haestad\fmw\schwartz.fm2
Worksheet	Channel 3 for pond overflow
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data	
Channel Slope	0.001000 ft/ft
Elevation range: 0.00 ft to 3.25 ft.	
Station (ft)	Elevation (ft)
0.00	3.250
3.00	3.000
15.00	0.000
25.00	0.000
37.00	3.000
40.00	3.250
Discharge	81.11 cfs

Results	
Wtd. Mannings Coefficient	0.030
Water Surface Elevation	2.17 ft
Flow Area	40.41 ft ²
Wetted Perimeter	27.86 ft
Top Width	27.32 ft
Height	2.17 ft
Critical Depth	1.09 ft
Critical Slope	0.014189 ft/ft
Velocity	2.01 ft/s
Velocity Head	0.06 ft
Specific Energy	2.23 ft
Froude Number	0.29
Flow is subcritical.	

FlowMaster Worksheets for Culvert Capacity

SCHWARTZMAN - Prince St Cul-De-Sac

Worksheet for Circular Channel

Project Description	
Project File	c:\haestad\fmw\schwartz.fm2
Worksheet	42" RCP under cul-de-sac
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data	
Mannings Coefficient	0.013
Channel Slope	0.010000 ft/ft
Diameter	42.00 in
Discharge	81.11 cfs

Results	
Depth	2.38 ft
Flow Area	6.97 ft ²
Wetted Perimeter	6.79 ft
Top Width	3.26 ft
Critical Depth	2.81 ft
Percent Full	68.04
Critical Slope	0.006746 ft/ft
Velocity	11.63 ft/s
Velocity Head	2.10 ft
Specific Energy	4.48 ft
Froude Number	1.40
Maximum Discharge	108.22 cfs
Full Flow Capacity	100.60 cfs
Full Flow Slope	0.006500 ft/ft
Flow is supercritical.	

Excel Worksheet for Future Prince Road Flow Capacity Calculations

PRINCE ROAD **STORM WATER FLOW CAPACITY** **(FOR FUTURE CONDITIONS WITH CURB)**

Street	Location	Street Width (ft)	Curb Type	Slope (ft/ft)	Q100(cfs)	Depth (ft)	EG (ft)
Prince Rd	north of Rio Bravo	72	std	0.005	46.0	0.67	0.78
Prince Rd	south of cul-de-sac	48	std	0.005	50.1	0.67	0.78

Appendix D

**Bureau of Reclamation Memo Regarding Applications to
Discharge Urban Storm Water Drainage into Existing
Reclamation Facilities dated April 8, 1996**



United States Department of the Interior

BUREAU OF RECLAMATION

Upper Colorado Regional Office
125 South Santa Fe Street, Room 4107
Salt Lake City, Utah 84116-1102

REPLY TO:
UC-262

LND-6.00, ENV-7.00

APR 8 1996

MEMORANDUM

To: Area Managers, Albuquerque, Provo
Attention: 100, 200, 400, 700
Area Manager (CDeAngelis) (MRasmussen) (DMutz) (SMCC)
Western Colorado Area Office - Northern Division
Manager (PSchumacher) (Kouellotte) (Blanch) (Evensen)
Western Colorado Area Office - Southern Division
Chief, El Paso Field Division, El Paso TX
Attention: 100, 200, 400, 700

From: Charles A. Calhoun
Regional Director

Subject: Upper Colorado Region Standards and Guidance for Review and Approval/Disapproval of Applications to Discharge Urban Storm Water Drainage into Existing Reclamation Delivery and Drainage Facilities

This memorandum and its attachment provide standards, responsibilities, procedures, background, and guidance for the review and approval or disapproval of applications to discharge urban storm water drainage into existing Reclamation facilities which were authorized, designed, and constructed only for agricultural water delivery and drainage.

STANDARDS:

1. Because of serious water quality concerns, discharges of urban storm water into delivery system facilities shall not be authorized.
2. Authorization to discharge urban storm water drainage into Reclamation drainage facilities will be granted only to established local governmental entities, not to individuals or developers.
3. Costs associated with reviewing and processing applications, including the appropriate level of compliance with the National Environmental Policy Act (NEPA), will be borne either by the applicant or the principal beneficiary of the development served by the discharge, not by Reclamation or its managing partners.
4. As a minimum, all applications will be reviewed by specialists in land management, environmental affairs, water quality, hazardous materials, and engineering/operations and maintenance.
5. Applications for discharge into facilities located on Reclamation easements will not be approved until the applicant has obtained his/her own right-of-way from the owner(s) of the underlying land.
6. Reclamation will not approve applications which violate the Clean Water Act. Environmental impacts will be assessed as directed by NEPA.

7. Reclamation will not approve applications for discharges which may load facilities beyond their designed capacity. Plans for facility upgrades associated with urban storm water discharge will be subject to review and approval by Reclamation. Such upgrades will be accomplished by the applicant/beneficiary to Reclamation's standards and at applicant/beneficiary expense.

8. All authorizing documents will be individually reviewed and approved by the field solicitor's office and will contain an approved liability provision.

9. Unlicensed discharges will be investigated and eliminated within staffing and budget constraints.

RESPONSIBILITIES AND PROCEDURES:

1. General:

a. Area Managers are hereby delegated authority to sign licensing/permitting documents related to the discharge of urban storm water into Reclamation drainage facilities. Redlegation of this authority will be at the Area Manager's discretion. Other supporting documents will be signed in accordance with existing delegations of authority.

b. The area office will take the lead in accepting and processing applications for urban storm water discharge. The regional office will provide expertise, support, and guidance and will facilitate legal review by the field solicitor's office. The regional office may assume a co-lead role upon request from the area office.

2. Area offices will:

a. Accept applications and assure that they are complete.

b. Determine the scope of Reclamation's interest in the land underlying the facility in question (fee title, easement, or 1890 right-of-way).

c. Determine whether applications are compatible with authorized project purposes and whether the affected Reclamation facility is still needed for authorized project purposes.

d. Attempt, within staffing and budget limitations, to identify and eliminate any existing unlicensed discharges on the facility in question prior to licensing any new discharge.

e. Assign a coordinator to process the application and coordinate with water districts, other area office specialists, the regional office, local governments, other federal/state agencies, and interested parties.

f. Obtain baseline information and draft all appropriate authorizing documents.

g. Establish a system for tracking and collecting administrative costs and fair market value fees.

h. Forward a complete application and draft documents to the regional office for review by regional office and field solicitor.

I. Work to establish proactive relationships with local governments and federal, state, and local regulatory agencies.

3. The regional office will:

- a. Provide assistance and expertise as requested by the area office.
- b. Determine the appropriate method of establishing fair market value and review and approve all value estimates and appraisals.
- c. Review all completed applications and authorizing documents prior to signature by the area manager.
- d. Facilitate legal review by the field solicitor.

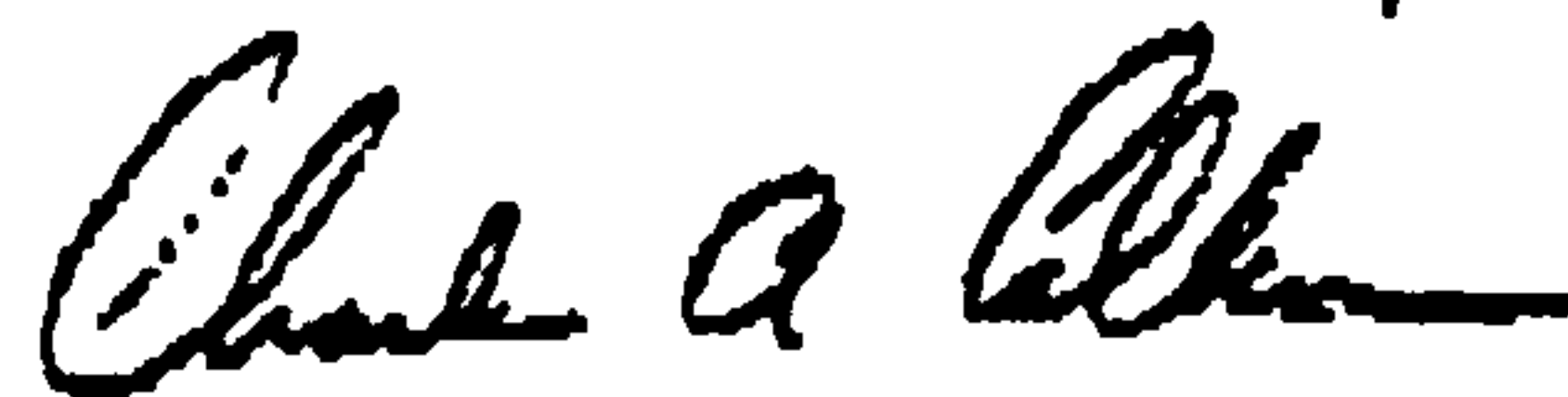
4. As a minimum, complete applications will contain:

- a. A description of affected lands and facilities.
- b. Complete, detailed plans and specifications for the discharge system, including estimated rate of discharge during maximum probable storm events.
- c. Detailed development plans including the number and type of residential and commercial lots to be developed and the type of sewage disposal system planned for the development.
- d. All information necessary to complete the appropriate level of NEPA compliance and proof of consultation and/or approved permits with all State and Federal agencies claiming jurisdiction under the Clean Water Act.

5. Native American Applicants: Applications received from Native American groups shall be reviewed and analyzed under Secretarial Order No. 3175, dated November 8, 1983, covering Indian Trust Assets. Exceptions may be made as appropriate under the provisions of the Secretarial Order.

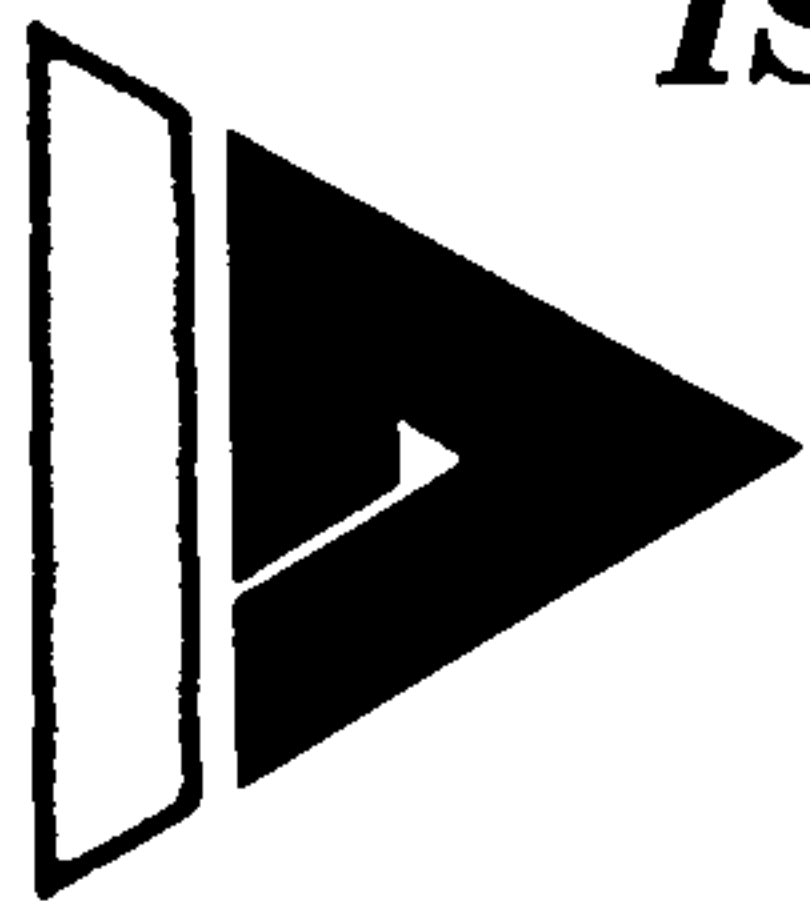
Background information and a more detailed discussion of standards and guidance is contained in the attached document.

Questions concerning this memorandum should be directed to Mrs. Mary Cook, telephone (801) 324-5442, extension 3.



Attachment

cc: Director, Program Analysis, Denver CO
Attention: D-3300 (John Osterberg) (w/attach)



ISAACSON & ARFMAN, P.A.

Consulting Engineering Associates

Albuquerque, NM