

**DRAINAGE REPORT**

**for**

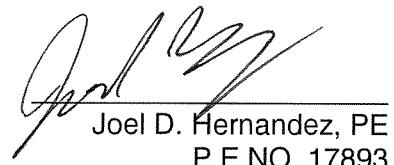
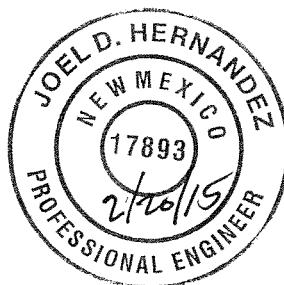
**Heritage Marketplace**  
**Southeast Corner Unser and Ladera**  
**Albuquerque, New Mexico**

Prepared by:

Tierra West, LLC  
5571 Midway Park Place NE  
Albuquerque, New Mexico 87109

February 2015

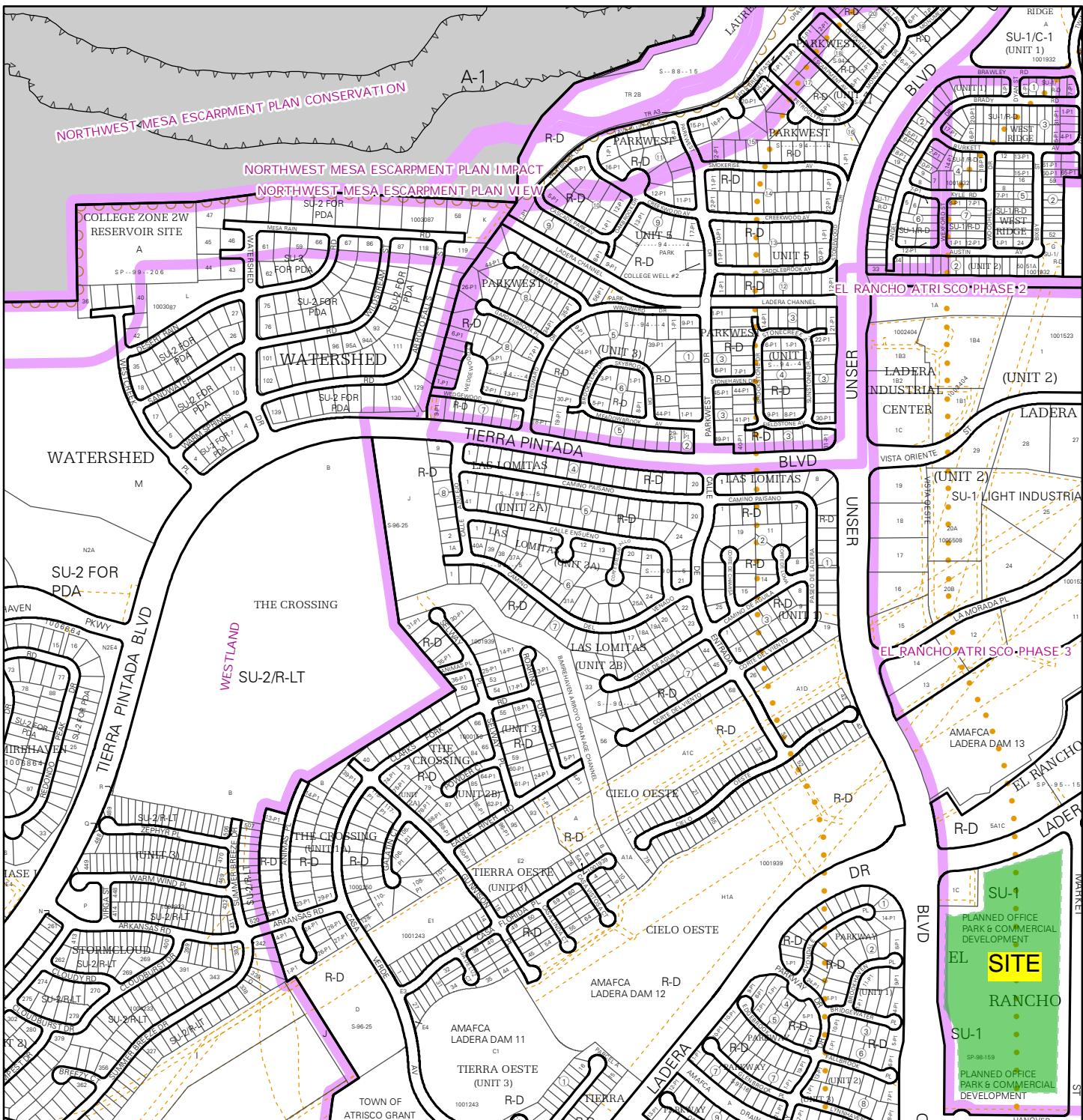
I certify that this report was prepared under my supervision, and I am a registered professional engineer in the State of New Mexico in good standing.



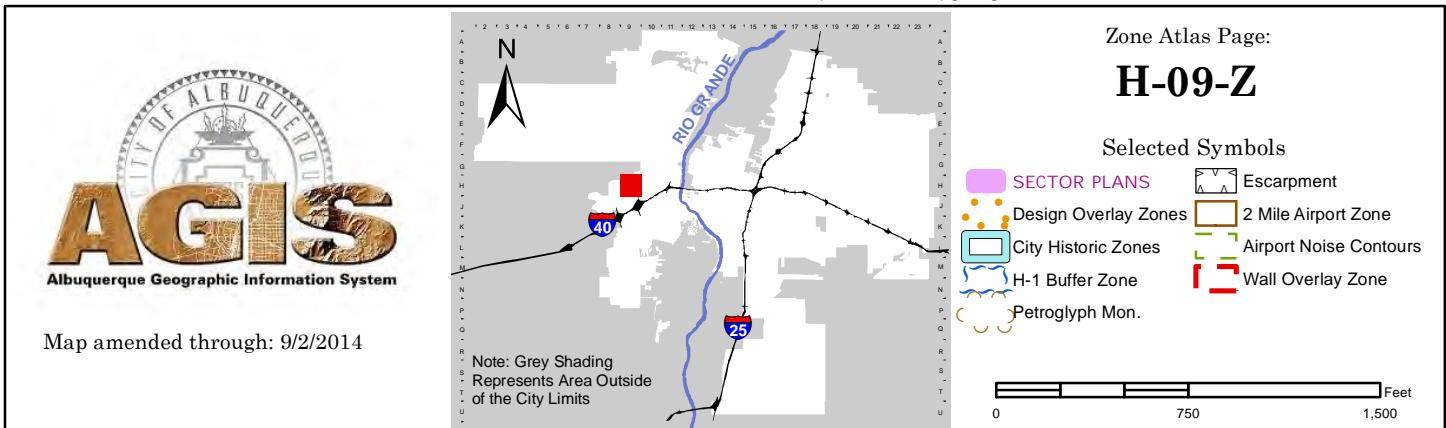
Joel D. Hernandez, PE  
P.E.NO. 17893

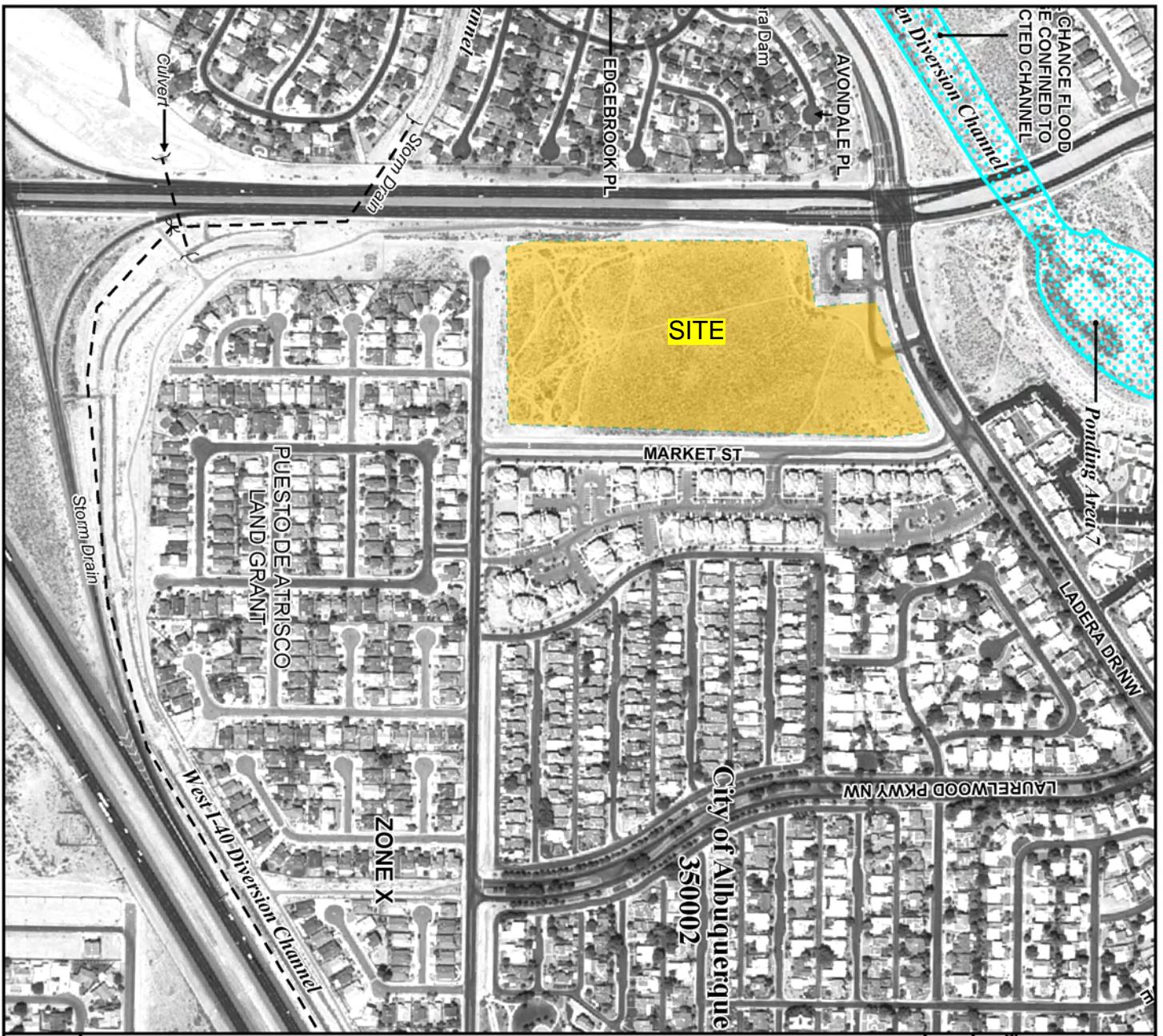
Job No 2014038

# EXHIBIT A - VICINITY MAP



For more current information and details visit: <http://www.cabq.gov/gis>





<b>NATIONAL FLOOD INSURANCE PROGRAM</b>	
<b>FIRM</b> <b>FLOOD INSURANCE RATE MAP</b>	
<b>BERNALILLO COUNTY, NEW MEXICO AND INCORPORATED AREAS</b>	
<b>PANEL 326 OF 825</b>	
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)	
<b>CONTAINS:</b> COMMUNITY      NUMBER      PANEL      SUFFIX ALBUQUERQUE, CITY OF      350002      0326      H BERNALILLO COUNTY UNINCORPORATED AREAS      350001      0326      H	
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.	
<b>MAP NUMBER</b> <b>35001C0326H</b>	
<b>MAP REVISED</b> <b>AUGUST 16, 2012</b>	
<b>NFIP</b> <b>PANEL 0326H</b>	

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

**EXHIBIT B**

## **PURPOSE**

The purpose of this report is to demonstrate the proposed grading and drainage scheme is consistent with the capacity assumptions of existing infrastructure constructed with SAD 212 (Hanover Storm Sewer) and to determine the required pond volumes and storm drain sizing necessary to connect to this existing infrastructure. The as-built drawing for the portion of the Hanover Storm Sewer to which this project connects is included in Appendix B of this report.

## **FLOOD PLAIN**

The site is not within a floodplain as shown on FIRM Map 35001c0326H. See Exhibit B for location of site.

## **EXISTING CONDITIONS**

The property over which the shopping center project will be constructed is currently undeveloped, with the exception of the existing Valero service station at the southeast corner of Unser Boulevard and Ladera Drive. An existing 42 inch RCP storm drain pipe anticipated to accept runoff from the site was constructed with SAD 212 and runs within a drainage easement along the north side of Hanover Road which borders the southerly portion of the site. The property generally drains from the northwest to the southeast into an existing inlet connected to the Hanover Road Storm Sewer.

The site is bordered by Unser Boulevard to the west, which conveys flows within the curbed roadway to the south; on the north by Ladera Drive which conveys flows within the curbed roadway to the east; Market Street to the east which conveys flows within the curbed roadway to Hanover Road to the south, which in turn flows to the east. There are no offsite basins draining onto the site other than the existing Valero service station.

The SAD 212 improvements are configured to accept 50 CFS of runoff from the project property of approximately 20.8 acres (average rate of 2.4 CFS/acre). Flows from Market Street are contained within the public right-of-way and do not drain into this segment of the SAD 212 storm sewer.

## **PROPOSED CONDITIONS**

The initial phase of the project anticipates onsite grading and drainage improvements necessary to grade the commercial tract pads (all tracts with the exception of Basin B4), two interconnected detention ponds, and internal driveways. Offsite improvements are proposed on Unser Boulevard for a deceleration and right-turn lane, median left-turn lane, and right-in driveway; a right-turn lane on Ladera Drive at the southwest portion of the intersection with Unser Boulevard; and median driveway cuts on Market Street.

Onsite drainage improvements are configured to not exceed the 50 SFS allowable flow into the SAD 212 storm sewer. The commercial northerly/upstream basins (Basin A1-A5, inclusive) are configured to be routed through two interconnected detention ponds and generate a peak flow of 19.91 CFS as calculated using AHYMO. Basin A6, downstream of the ponds, generates 1.86 CFS and enters the proposed storm drain through a curb inlet. The total flow from the northerly commercial pads routed through the basins and the addition of Basin A6 produce a total of 21.77 CFS which equates to an average rate of 2.39 CFS/acre.

The southerly commercial pads corresponding to basins B1 and B2 will each be limited to 2.1 CFS when they develop in the future. Flows from these commercial pads combined with the 2.3 developed flow from the portion of the driveway encompassed by Basin B3 will not exceed 6.5 CFS, which also corresponds to an average rate of 2.4 CFS/acre.

The total flows (28.3 CFS) from all onsite “commercial” drainage basins (excluding Basin B4) will be conveyed in a proposed private storm drain connecting to the SAD 212 storm sewer

in Hanover Road. Basin B4, slated for future residential or office development, will be limited to 21.7 CFS (2.4 CFS/acre) so as not to exceed the total allowable 50 CFS.

A hydrologic analysis was run using AHYMO to demonstrate the proposed pond volumes are adequate to restrict the flows as discussed above. A hydraulic analysis to size the major pipe network was run using Flowmaster. A section of 24-inch and 30-inch RCP will be required to convey flows through the future residential parcel to the existing 42-inch RCP. Calculations are included in Appendix A of this report.

## **STORMWATER CONTROL MEASURES**

Stormwater Control Measures are incorporated in the design to the extent practicable and will provide management of the 90<sup>th</sup> Percentile Storm. The primary design measure is the retention/detention pond which will serve to retain the 90<sup>th</sup> Percentile Storm which was quantified per the Drainage Ordinance requirement of 0.44 inches and reduced by 0.1 inch to account for the initial impervious abstraction as listed in Table A-6 of Section 22 of the DPM. Detailed pond volume design tabulations are included in Appendix A.

## **SUMMARY**

Following a detailed analysis of existing and proposed drainage conditions guided by DPM Section 22 – Weighted E Method, storm water discharge resulting from the 100-year, 6-hr storm event indicates that the proposed redevelopment and corresponding grading and drainage design will accommodate the proposed development, and correspondingly not increase run-off volumes or alter historic discharge locations. It is therefore recommended that this plan be approved for Site Development Plan for Building Permit and Site Development Plan for Subdivision based upon these findings.

**Northerly Developed Basins**

(Routed Through Grocery Store Ponds)

Basin	Basin Descriptions								100-Year, 6-Hr			10-Year, 6-Hr			2-Year, 6-Hr				
	Area (sf)	Area (acres)	Area (sq miles)	Treatment A %	Treatment B %	Treatment C %	Treatment D %	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs			
A1 Store	217,349	4.990	0.00780	0%	0	0%	0.000	29%	1.427732	71%	3.562	1.690	0.703	1.011	0.420	12.42	0.548	0.228	6.69
A2 Pad C	36,334	0.834	0.00130	0%	0	0%	0.000	43%	0.362718	57%	0.471	1.544	0.107	0.892	0.062	1.90	0.459	0.032	0.97
A3 Valero	37,460	0.860	0.00134	0%	0	0%	0.000	22%	0.187052	78%	0.673	1.757	0.126	1.066	0.076	2.22	0.589	0.042	1.23
A4 Pad E	39,708	0.912	0.00142	0%	0	0%	0.000	20%	0.182277	80%	0.729	1.774	0.135	1.080	0.082	2.38	0.600	0.046	1.32
A5 Roof*	40,601	0.932	0.00146	0%	0	0%	0.000	0%	0	100%	0.932	1.970	0.153	1.240	0.096	2.69	0.720	0.056	1.58
subtotal													19.91**						
A6 Drive*	19,719	0.453	0.00071	0%	0	0%	0.000	17%	0.076957	83%	0.376	1.803	0.068	1.86	1.104	0.042	1.20		
<b>Total</b>	<b>371,452</b>	<b>8.527</b>	<b>0.01332</b>										<b>21.77</b>						

\*Notes: Basin not routed through ponds.

\*\* AHYMO peak runoff subtotal

**SOUTHERLY Developed Basins**

Basin	Basin Descriptions								100-Year, 6-Hr			10-Year, 6-Hr			2-Year, 6-Hr					
	Area (sf)	Area (acres)	Area (sq miles)	Treatment A %	Treatment B %	Treatment C %	Treatment D %	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs				
B1 Pad A	48,870	1.122	0.00175	0%	0	0%	0.000	100%	1.121901	0%	0.000	0.990	0.093	2.1*	0.440	0.041	1.67	0.120	0.011	0.53
B2 Pad B	46,933	1.077	0.00168	0%	0	0%	0.000	100%	1.077433	0%	0.000	0.990	0.089	2.1*	0.440	0.040	1.61	0.120	0.011	0.51
B3 Drive	23,035	0.529	0.00083	0%	0	0%	0.000	0%	0	100%	0.529	1.970	0.087	2.31	1.240	0.055	1.53	0.720	0.032	0.89
B4 Res	394,392	9.054	0.01415	0%	0	98%	8.873	2%	0.18108	0%	0.000	0.676	0.510	21.7	0.224	0.169	7.01			
<b>Total</b>	<b>513,230</b>	<b>11.782</b>	<b>0.01841</b>									<b>0.779</b>	<b>28.20</b>		<b>0.305</b>	<b>11.82</b>		<b>0.054</b>	<b>1.93</b>	

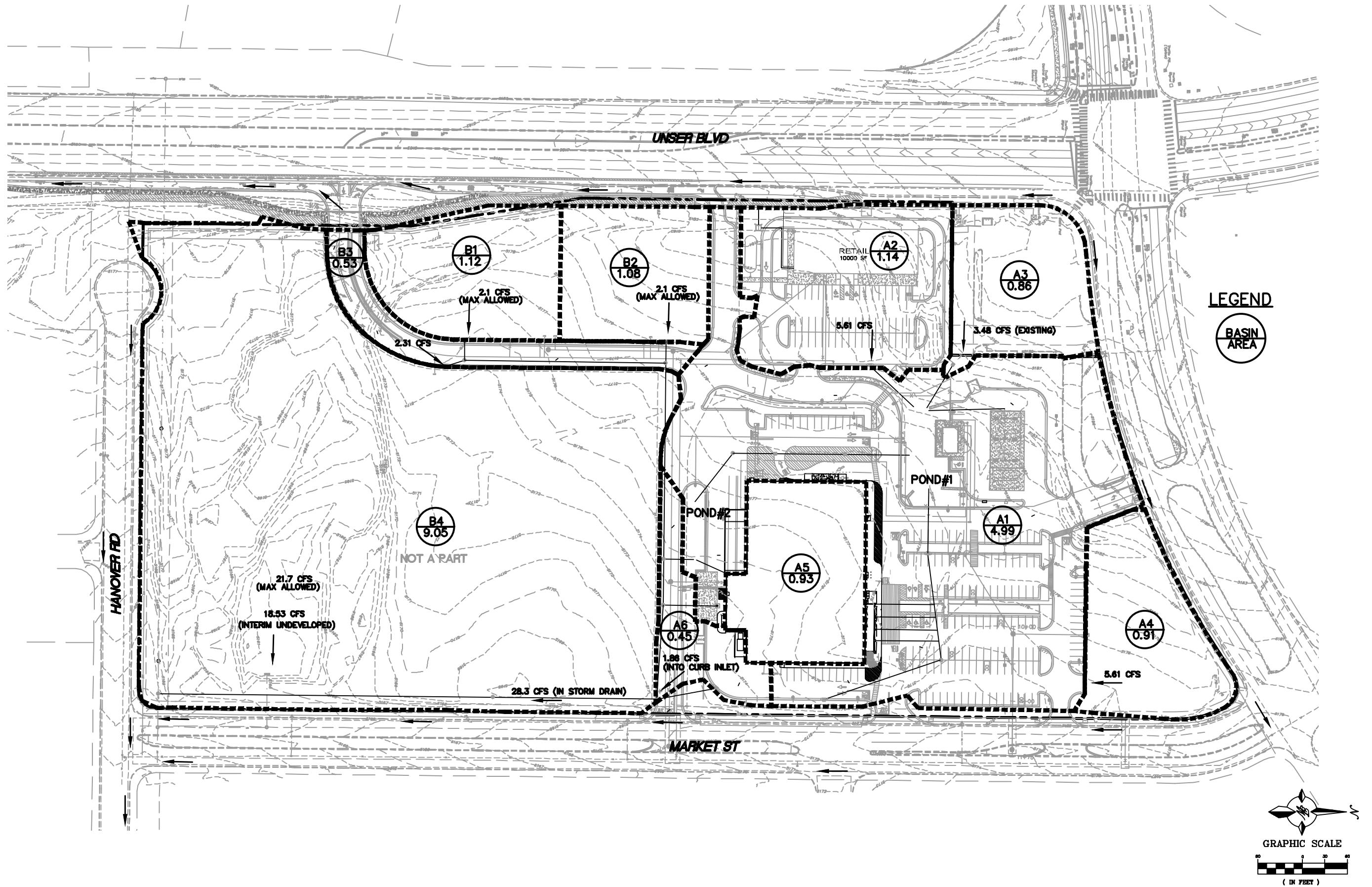
\*Notes: Max allowable Q100.

Equations:

$$\text{Weighted E} = E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d / (\text{Total Area})$$

$$\text{Volume} = \text{Weighted D} * \text{Total Area}$$

$$\text{Flow} = Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$$



## First Flush and Pond Volume Calculations

### POND 1 VOLUME CALCULATIONS

ELEVATION (ft)	AREA (sf)	VOLUME (cf)	CUMULATIVE VOLUME (cf)
5170	2213	0	0
5171	3173	2693	2693
5172	4197	3685	6378
5173	5295	4746	11124
5174	6410	5852.5	16977
5175	7568	6989	23966
			23966
			23966
		<b>23966</b>	

### POND 2 VOLUME CALCULATIONS

ELEVATION (ft)	AREA (sf)	VOLUME (cf)	CUMULATIVE VOLUME (cf)
5170	0	0	0
5171	399	199.5	199.5
5172	933	666	865.5
5173	1539	1236	2101.5
5174	2217	1878	3979.5
5175	2967	2592	6571.5
		<b>6571.5</b>	

TOTAL POND VOLUME

**30537**

ACTUAL ELEV.	DEPTH (FT)	VOLUME (CF)	Q (CFS)	VOLUME (AC-FT)
70	0	0	0.0000	
71.00	0.00	2893	0.0000	0.06640266
72.00	0.00	7244	0.0000	0.16628788
73.00	1.00	13226	3.3237	0.3036157
74.00	2.00	20956	13.7041	0.48108356
75.00	3.00	30537	19.0934	0.70103306

### Orifice Equation

$$Q = CA \sqrt{2gH}$$

$$C = 0.6$$

$$\text{Diameter (ir)} = 22.5$$

$$\text{Area (ft}^2\text{)} = 2.761$$

$$g = 32.2$$

H (Ft) = Depth of water above center of orifice

Q (CFS) = Flow

### FIRST FLUSH CALCULATIONS

Total Retention Vol Provided= **7244** cubic feet (ELEV 5170 TO 5172)

$$\text{Volume Required} = A_d * (0.44\text{in}-0.1\text{in})$$

$$A_d = 4.49 \text{ acres} = 195758 \text{ SQ FT}$$

Vol Req'd: 5546 cubic feet < Vol Provided, Therefore **OK**

## **Worksheet for 30" RCP Capacity Check**

## Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

## Input Data

Roughness Coefficient	0.013
Channel Slope	0.00600 ft/ft
Diameter	2.50 ft
Discharge	28.53 ft <sup>3</sup> /s

## Results

Normal Depth	1.85	ft
Flow Area	3.90	ft <sup>2</sup>
Wetted Perimeter	5.18	ft
Hydraulic Radius	0.75	ft
Top Width	2.19	ft
Critical Depth	1.82	ft
Percent Full	74.0	%
Critical Slope	0.00624	ft/ft
Velocity	7.32	ft/s
Velocity Head	0.83	ft
Specific Energy	2.68	ft
Froude Number	0.97	
Maximum Discharge	34.18	ft <sup>3</sup> /s
Discharge Full	31.77	ft <sup>3</sup> /s
Slope Full	0.00484	ft/ft
Flow Type	SubCritical	

GVF Input Data

## GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	74.03	%
Downstream Velocity	Infinity	ft/s

## **Worksheet for 24" RCP Capacity Check**

## Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

## Input Data

Roughness Coefficient	0.013
Channel Slope	0.01710 ft/ft
Diameter	2.00 ft
Discharge	28.93 ft <sup>3</sup> /s

## Results

Normal Depth	1.60	ft
Flow Area	2.70	ft <sup>2</sup>
Wetted Perimeter	4.43	ft
Hydraulic Radius	0.61	ft
Top Width	1.60	ft
Critical Depth	1.85	ft
Percent Full	80.0	%
Critical Slope	0.01418	ft/ft
Velocity	10.73	ft/s
Velocity Head	1.79	ft
Specific Energy	3.39	ft
Froude Number	1.46	
Maximum Discharge	31.82	ft <sup>3</sup> /s
Discharge Full	29.58	ft <sup>3</sup> /s
Slope Full	0.01636	ft/ft
Flow Type	SuperCritical	

## GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

## GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	80.04	%
Downstream Velocity	Infinity	ft/s

**Worksheet for 24" RCP at 1.29%**

## Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

## Input Data

Roughness Coefficient	0.013
Channel Slope	0.01290 ft/ft
Diameter	2.00 ft
Discharge	24.74 ft <sup>3</sup> /s

## Results

Normal Depth	1.58	ft
Flow Area	2.66	ft <sup>2</sup>
Wetted Perimeter	4.37	ft
Hydraulic Radius	0.61	ft
Top Width	1.63	ft
Critical Depth	1.76	ft
Percent Full	78.8	%
Critical Slope	0.01080	ft/ft
Velocity	9.31	ft/s
Velocity Head	1.35	ft
Specific Energy	2.92	ft
Froude Number	1.29	
Maximum Discharge	27.64	ft <sup>3</sup> /s
Discharge Full	25.69	ft <sup>3</sup> /s
Slope Full	0.01196	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

## GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	78.82	%
Downstream Velocity	Infinity	ft/s

## **Worksheet for 18" RCP 0.4% Capacity Check**

## Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

## Input Data

Roughness Coefficient	0.013
Channel Slope	0.00400 ft/ft
Diameter	1.50 ft
Discharge	5.53 ft <sup>3</sup> /s

## Results

Normal Depth	1.05	ft
Flow Area	1.31	ft <sup>2</sup>
Wetted Perimeter	2.96	ft
Hydraulic Radius	0.44	ft
Top Width	1.38	ft
Critical Depth	0.91	ft
Percent Full	69.7	%
Critical Slope	0.00600	ft/ft
Velocity	4.21	ft/s
Velocity Head	0.27	ft
Specific Energy	1.32	ft
Froude Number	0.76	
Maximum Discharge	7.15	ft <sup>3</sup> /s
Discharge Full	6.64	ft <sup>3</sup> /s
Slope Full	0.00277	ft/ft
Flow Type	SubCritical	

GVF Input Data

## GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	69.68	%
Downstream Velocity	Infinity	ft/s

## **Worksheet for 18" RCP 0.6% Capacity Check**

## Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

## Input Data

Roughness Coefficient	0.013
Channel Slope	0.00600 ft/ft
Diameter	1.50 ft
Discharge	8.62 ft <sup>3</sup> /s

## Results

Normal Depth	1.33	ft
Flow Area	1.66	ft <sup>2</sup>
Wetted Perimeter	3.69	ft
Hydraulic Radius	0.45	ft
Top Width	0.95	ft
Critical Depth	1.14	ft
Percent Full	88.8	%
Critical Slope	0.00791	ft/ft
Velocity	5.20	ft/s
Velocity Head	0.42	ft
Specific Energy	1.75	ft
Froude Number	0.69	
Maximum Discharge	8.75	ft <sup>3</sup> /s
Discharge Full	8.14	ft <sup>3</sup> /s
Slope Full	0.00673	ft/ft
Flow Type	SubCritical	

GVF Input Data

## GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	88.83	%
Downstream Velocity	Infinity	ft/s

Heritage.01.15 North Basins

```
*****
*          Heritage Plaza, ALBUQUERQUE, NM
*****
* 100-YEAR, 24-HR STORM (UNDER PROPOSED CONDITIONS) w/ routing *
*****
*
START           TIME=0.0
*
*
RAINFALL        TYPE=2 RAIN QUARTER=0.0 IN
                 RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                 RAIN DAY=2.66 IN DT=0.05 HR
*
*DEVELOPED CONDITIONS
*
*BASIN A1
*
COMPUTE NM HYD    ID=1 HYD NO=100.1 AREA=0.00780 SQ MI
                   PER A=0.00 PER B=0.00 PER C=28.0 PER D=72.00
                   TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD         ID=1 CODE=1
*
*
*BASIN A2
*
COMPUTE NM HYD    ID=2 HYD NO=100.2 AREA=0.00220 SQ MI
                   PER A=0.00 PER B=0.00 PER C=26.0 PER D=74.00
                   TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD         ID=2 CODE=1
*
*
*BASIN A3
*
COMPUTE NM HYD    ID=3 HYD NO=100.3 AREA=0.00134 SQ MI
                   PER A=0.00 PER B=0.00 PER C=22.0 PER D=78.00
                   TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD         ID=3 CODE=1
*
*
*BASIN A4
*
COMPUTE NM HYD    ID=4 HYD NO=100.4 AREA=0.00142 SQ MI
                   PER A=0.00 PER B=0.00 PER C=20.0 PER D=80.00
                   TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD         ID=4 CODE=1
*
*
*BASIN A5 - ROOF
*
COMPUTE NM HYD    ID=5 HYD NO=100.5 AREA=0.00146 SQ MI
                   PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                   TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD         ID=5 CODE=1
*
*
*BASIN A6 - DRIVE
*
COMPUTE NM HYD    ID=6 HYD NO=100.6 AREA=0.00071 SQ MI
                   PER A=0.00 PER B=0.00 PER C=17.0 PER D=83.00
                   TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD         ID=6 CODE=1
*
*
ADD HYD          ID=50 HYD NO=100.21 ID=1 ID=2
ADD HYD          ID=50 HYD NO=100.21 ID=50 ID=3
ADD HYD          ID=50 HYD NO=100.21 ID=50 ID=4
*
```

Heritage.01.15 North Basins

PRINT HYD ID=50 CODE=1

\*

\*

\*ROUTE BASIN 1,2,3 & 4 THROUGH DETENTION PONDS

ROUTE RESERVOIR ID=55 HYD NO=200.1 INFLOW ID=50 CODE=24  
OUTFLOW (CFS) STORAGE(AC-FT) ELEVATION(FT)

0.0	0.0	70.00
0.010	0.0664	71.00
0.0100	0.1662	72.00
3.3237	0.3036	73.00
13.704	0.4810	74.00
19.093	0.7010	75.00

\*

PRINT HYD ID=55 CODE=1

\*

\*

ADD HYD ID=56 HYD NO=100.22 ID=55 ID=5  
PRINT HYD ID=56 CODE=1

\*

\*

ADD HYD ID=57 HYD NO=100.23 ID=56 ID=6  
PRINT HYD ID=57 CODE=1

\*

\*

FINISH

## AHYMO

AHYMO PROGRAM (AHYMO-S4) - Version: S4.01a - Rel:  
 01a  
 RUN DATE (MON/DAY/YR) = 01/29/2015  
 START TIME (HR:MIN:SEC) = 10:52:52 USER NO.=  
 TierraWest-SiteA99368577  
 INPUT FILE = C:\Users\Joel\Desktop\Heritage.01.15 North  
 Basins.txt

\*\*\*\*\*

\* Heritage Plaza, ALBUQUERQUE, NM \*

\*\*\*\*\*

\* 100-YEAR, 24-HR STORM (UNDER PROPOSED CONDITIONS) W/ routing \*

\*\*\*\*\*

\*

START TIME=0.0

\*

\*

RAINFALL TYPE=2 RAIN QUARTER=0.0 IN  
 RAIN ONE=1.87 IN RAIN SIX=2.20 IN  
 RAIN DAY=2.66 IN DT=0.05 HR

24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR  
 CONVECTIVE AREAS (NM & AZ) - D1

DT	0.050000 HOURS	END TIME	= 24.000002 HOURS
0.0000	0.0022	0.0045	0.0069 0.0096 0.0123 0.0154
0.0197	0.0264	0.0336	0.0412 0.0494 0.0578 0.0664
0.0753	0.0844	0.0946	0.1052 0.1168 0.1387 0.1657
0.2020	0.2430	0.2937	0.3614 0.4375 0.5689 0.7733
1.1234	1.3695	1.5635	1.6610 1.7465 1.8079 1.8568
1.8994	1.9306	1.9592	1.9828 1.9979 2.0087 2.0183
2.0273	2.0352	2.0426	2.0499 2.0568 2.0625 2.0659
2.0692	2.0724	2.0754	2.0784 2.0813 2.0842 2.0870
2.0896	2.0923	2.0949	2.0974 2.0999 2.1023 2.1046
2.1069	2.1092	2.1115	2.1136 2.1158 2.1179 2.1199
2.1220	2.1240	2.1260	2.1280 2.1299 2.1318 2.1337
2.1356	2.1374	2.1392	2.1411 2.1428 2.1446 2.1463
2.1481	2.1498	2.1514	2.1531 2.1548 2.1564 2.1580
2.1596	2.1612	2.1628	2.1643 2.1658 2.1674 2.1689
2.1704	2.1718	2.1733	2.1747 2.1762 2.1776 2.1790
2.1804	2.1818	2.1832	2.1845 2.1859 2.1872 2.1885
2.1899	2.1912	2.1925	2.1937 2.1950 2.1963 2.1975
2.1988	2.2000	2.2013	2.2026 2.2038 2.2051 2.2064
2.2077	2.2089	2.2102	2.2115 2.2128 2.2141 2.2153
2.2166	2.2179	2.2192	2.2204 2.2217 2.2230 2.2243
2.2256	2.2268	2.2281	2.2294 2.2307 2.2319 2.2332
2.2345	2.2358	2.2371	2.2383 2.2396 2.2409 2.2422
2.2434	2.2447	2.2460	2.2473 2.2486 2.2498 2.2511
2.2524	2.2537	2.2549	2.2562 2.2575 2.2588 2.2601
2.2613	2.2626	2.2639	2.2652 2.2664 2.2677 2.2690
2.2703	2.2716	2.2728	2.2741 2.2754 2.2767 2.2779
2.2792	2.2805	2.2818	2.2831 2.2843 2.2856 2.2869
2.2882	2.2894	2.2907	2.2920 2.2933 2.2946 2.2958
2.2971	2.2984	2.2997	2.3009 2.3022 2.3035 2.3048

AHYMO							
2.3061	2.3073	2.3086	2.3099	2.3112	2.3124	2.3137	
2.3150	2.3163	2.3176	2.3188	2.3201	2.3214	2.3227	
2.3239	2.3252	2.3265	2.3278	2.3291	2.3303	2.3316	
2.3329	2.3342	2.3354	2.3367	2.3380	2.3393	2.3406	
2.3418	2.3431	2.3444	2.3457	2.3469	2.3482	2.3495	
2.3508	2.3521	2.3533	2.3546	2.3559	2.3572	2.3584	
2.3597	2.3610	2.3623	2.3636	2.3648	2.3661	2.3674	
2.3687	2.3699	2.3712	2.3725	2.3738	2.3750	2.3763	
2.3776	2.3789	2.3802	2.3814	2.3827	2.3840	2.3853	
2.3865	2.3878	2.3891	2.3904	2.3917	2.3929	2.3942	
2.3955	2.3968	2.3980	2.3993	2.4006	2.4019	2.4032	
2.4044	2.4057	2.4070	2.4083	2.4095	2.4108	2.4121	
2.4134	2.4147	2.4159	2.4172	2.4185	2.4198	2.4210	
2.4223	2.4236	2.4249	2.4262	2.4274	2.4287	2.4300	
2.4313	2.4325	2.4338	2.4351	2.4364	2.4377	2.4389	
2.4402	2.4415	2.4428	2.4440	2.4453	2.4466	2.4479	
2.4492	2.4504	2.4517	2.4530	2.4543	2.4555	2.4568	
2.4581	2.4594	2.4607	2.4619	2.4632	2.4645	2.4658	
2.4670	2.4683	2.4696	2.4709	2.4722	2.4734	2.4747	
2.4760	2.4773	2.4785	2.4798	2.4811	2.4824	2.4837	
2.4849	2.4862	2.4875	2.4888	2.4900	2.4913	2.4926	
2.4939	2.4952	2.4964	2.4977	2.4990	2.5003	2.5015	
2.5028	2.5041	2.5054	2.5067	2.5079	2.5092	2.5105	
2.5118	2.5130	2.5143	2.5156	2.5169	2.5182	2.5194	
2.5207	2.5220	2.5233	2.5245	2.5258	2.5271	2.5284	
2.5297	2.5309	2.5322	2.5335	2.5348	2.5360	2.5373	
2.5386	2.5399	2.5412	2.5424	2.5437	2.5450	2.5463	
2.5475	2.5488	2.5501	2.5514	2.5527	2.5539	2.5552	
2.5565	2.5578	2.5590	2.5603	2.5616	2.5629	2.5642	
2.5654	2.5667	2.5680	2.5693	2.5705	2.5718	2.5731	
2.5744	2.5757	2.5769	2.5782	2.5795	2.5808	2.5820	
2.5833	2.5846	2.5859	2.5872	2.5884	2.5897	2.5910	
2.5923	2.5935	2.5948	2.5961	2.5974	2.5987	2.5999	
2.6012	2.6025	2.6038	2.6050	2.6063	2.6076	2.6089	
2.6102	2.6114	2.6127	2.6140	2.6153	2.6165	2.6178	
2.6191	2.6204	2.6217	2.6229	2.6242	2.6255	2.6268	
2.6280	2.6293	2.6306	2.6319	2.6332	2.6344	2.6357	
2.6370	2.6383	2.6395	2.6408	2.6421	2.6434	2.6447	
2.6459	2.6472	2.6485	2.6498	2.6510	2.6523	2.6536	
2.6549	2.6562	2.6574	2.6587	2.6600			

\*DEVELOPED CONDITIONS

\*

\*BASIN A1

\*

COMPUTE NM HYD ID=1 HYD NO=100.1 AREA=0.00780 SQ MI

PER A=0.00 PER B=0.00 PER C=28.0 PER D=72.00

TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000  
 SHAPE CONSTANT, N = 7.106428  
 UNIT PEAK = 22.172 CFS UNIT VOLUME = 0.9986 B =  
 526.28 P60 = 1.8700  
 AREA = 0.005616 SQ MI IA = 0.10000 INCHES INF = 0.04000  
 INCHES PER HOUR  
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
 DT = 0.050000

AHYMO  
K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199  
SHAPE CONSTANT, N = 4.514592  
UNIT PEAK = 6.3592 CFS UNIT VOLUME = 0.9999 B =  
388.14 P60 = 1.8700  
AREA = 0.002184 SQ MI IA = 0.35000 INCHES INF = 0.83000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 100.10

RUNOFF VOLUME = 2.04333 INCHES = 0.8500 ACRE-FEET  
PEAK DISCHARGE RATE = 20.48 CFS AT 1.500 HOURS BASIN AREA =  
0.0078 SQ. MI.

\*

\*

\*BASIN A2

\*

COMPUTE NM HYD ID=2 HYD NO=100.2 AREA=0.00220 SQ MI  
PER A=0.00 PER B=0.00 PER C=26.0 PER D=74.00  
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000  
SHAPE CONSTANT, N = 7.106428  
UNIT PEAK = 6.4274 CFS UNIT VOLUME = 0.9975 B =  
526.28 P60 = 1.8700  
AREA = 0.001628 SQ MI IA = 0.10000 INCHES INF = 0.04000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199  
SHAPE CONSTANT, N = 4.514592  
UNIT PEAK = 1.6655 CFS UNIT VOLUME = 0.9941 B =  
388.14 P60 = 1.8700  
AREA = 0.000572 SQ MI IA = 0.35000 INCHES INF = 0.83000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

PRINT HYD ID=2 CODE=1

PARTIAL HYDROGRAPH 100.20

RUNOFF VOLUME = 2.06992 INCHES = 0.2429 ACRE-FEET  
PEAK DISCHARGE RATE = 5.83 CFS AT 1.500 HOURS BASIN AREA =  
0.0022 SQ. MI.

AHYMO

\*

\*

\*BASIN A3

\*

COMPUTE NM HYD ID=3 HYD NO=100.3 AREA=0.00134 SQ MI  
PER A=0.00 PER B=0.00 PER C=22.0 PER D=78.00  
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000  
SHAPE CONSTANT, N = 7.106428  
UNIT PEAK = 4.1265 CFS UNIT VOLUME = 0.9966 B =  
526.28 P60 = 1.8700  
AREA = 0.001045 SQ MI IA = 0.10000 INCHES INF = 0.04000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199  
SHAPE CONSTANT, N = 4.514592  
UNIT PEAK = 0.85838 CFS UNIT VOLUME = 0.9874 B =  
388.14 P60 = 1.8700  
AREA = 0.000295 SQ MI IA = 0.35000 INCHES INF = 0.83000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

PRINT HYD ID=3 CODE=1

PARTIAL HYDROGRAPH 100.30

RUNOFF VOLUME = 2.12311 INCHES = 0.1517 ACRE-FEET  
PEAK DISCHARGE RATE = 3.60 CFS AT 1.500 HOURS BASIN AREA =  
0.0013 SQ. MI.

\*

\*

\*BASIN A4

\*

COMPUTE NM HYD ID=4 HYD NO=100.4 AREA=0.00142 SQ MI  
PER A=0.00 PER B=0.00 PER C=20.0 PER D=80.00  
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000  
SHAPE CONSTANT, N = 7.106428  
UNIT PEAK = 4.4850 CFS UNIT VOLUME = 0.9966 B =  
526.28 P60 = 1.8700

AREA = 0.001136 SQ MI IA = 0.10000 INCHES INF = 0.04000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199  
SHAPE CONSTANT, N = 4.514592  
UNIT PEAK = 0.82693 CFS UNIT VOLUME = 0.9874 B =  
388.14 P60 = 1.8700  
AREA = 0.000284 SQ MI IA = 0.35000 INCHES INF = 0.83000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

PRINT HYD ID=4 CODE=1

PARTIAL HYDROGRAPH 100.40

RUNOFF VOLUME = 2.14971 INCHES = 0.1628 ACRE-FEET  
PEAK DISCHARGE RATE = 3.84 CFS AT 1.500 HOURS BASIN AREA =  
0.0014 SQ. MI.

\*

\*

\*BASIN A5 - ROOF

\*

COMPUTE NM HYD ID=5 HYD NO=100.5 AREA=0.00146 SQ MI  
PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00  
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000  
SHAPE CONSTANT, N = 7.106428  
UNIT PEAK = 5.7642 CFS UNIT VOLUME = 0.9971 B =  
526.28 P60 = 1.8700  
AREA = 0.001460 SQ MI IA = 0.10000 INCHES INF = 0.04000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

PRINT HYD ID=5 CODE=1

PARTIAL HYDROGRAPH 100.50

RUNOFF VOLUME = 2.41566 INCHES = 0.1881 ACRE-FEET  
PEAK DISCHARGE RATE = 4.19 CFS AT 1.500 HOURS BASIN AREA =  
0.0015 SQ. MI.

\*

\*

AHYMO

\*BASIN A6 - DRIVE

\*

COMPUTE NM HYD ID=6 HYD NO=100.6 AREA=0.00071 SQ MI  
PER A=0.00 PER B=0.00 PER C=17.0 PER D=83.00  
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000  
SHAPE CONSTANT, N = 7.106428  
UNIT PEAK = 2.3266 CFS UNIT VOLUME = 0.9941 B =  
526.28 P60 = 1.8700  
AREA = 0.000589 SQ MI IA = 0.10000 INCHES INF = 0.04000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199  
SHAPE CONSTANT, N = 4.514592  
UNIT PEAK = 0.35145 CFS UNIT VOLUME = 0.9649 B =  
388.14 P60 = 1.8700  
AREA = 0.000121 SQ MI IA = 0.35000 INCHES INF = 0.83000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -  
DT = 0.050000

PRINT HYD ID=6 CODE=1

PARTIAL HYDROGRAPH 100.60

RUNOFF VOLUME = 2.18960 INCHES = 0.0829 ACRE-FEET  
PEAK DISCHARGE RATE = 1.95 CFS AT 1.500 HOURS BASIN AREA =  
0.0007 SQ. MI.

\*

\*

ADD HYD ID=50 HYD NO=100.21 ID=1 ID=2

ADD HYD ID=50 HYD NO=100.21 ID=50 ID=3

ADD HYD ID=50 HYD NO=100.21 ID=50 ID=4

\*

PRINT HYD ID=50 CODE=1

PARTIAL HYDROGRAPH 100.21

RUNOFF VOLUME = 2.06804 INCHES = 1.4074 ACRE-FEET  
PEAK DISCHARGE RATE = 33.75 CFS AT 1.500 HOURS BASIN AREA =  
0.0128 SQ. MI.

## AHYMO

\*

\*

\*ROUTE BASIN 1,2,3 &amp; 4 THROUGH DETENTION PONDS

ROUTE RESERVOIR ID=55 HYD NO=200.1 INFLOW ID=50 CODE=24

OUTFLOW (CFS) STORAGE(AC-FT) ELEVATION(FT)

	0.0	0.0	70.00
	0.010	0.0664	71.00
	0.0100	0.1662	72.00
	3.3237	0.3036	73.00
	13.704	0.4810	74.00
	19.093	0.7010	75.00

\* \* \* \* \*

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
0.00	0.00	70.00	0.000	0.00
1.20	4.26	70.73	0.049	0.01
2.40	1.08	72.97	0.300	3.24
3.60	0.05	72.12	0.183	0.40
4.80	0.08	72.03	0.170	0.10
6.00	0.15	72.03	0.171	0.12
7.20	0.16	72.04	0.172	0.15
8.40	0.16	72.04	0.172	0.16
9.60	0.15	72.04	0.172	0.16
10.80	0.16	72.04	0.172	0.16
12.00	0.16	72.04	0.172	0.16
13.20	0.15	72.04	0.172	0.16
14.40	0.16	72.04	0.172	0.16
15.60	0.15	72.04	0.172	0.16
16.80	0.15	72.04	0.172	0.16
18.00	0.16	72.04	0.172	0.16
19.20	0.15	72.04	0.172	0.16
20.40	0.15	72.04	0.172	0.16
21.60	0.16	72.04	0.172	0.16
22.80	0.15	72.04	0.172	0.16
24.00	0.15	72.04	0.172	0.16
25.20	0.00	72.00	0.167	0.02
26.40	0.00	72.00	0.166	0.01
27.60	0.00	72.00	0.166	0.01
28.80	0.00	72.00	0.166	0.01
30.00	0.00	72.00	0.166	0.01
31.20	0.00	72.00	0.166	0.01
32.40	0.00	72.00	0.166	0.01
33.60	0.00	72.00	0.166	0.01
34.80	0.00	72.00	0.166	0.01
36.00	0.00	72.00	0.166	0.01
37.20	0.00	72.00	0.166	0.01
38.40	0.00	72.00	0.166	0.01
39.60	0.00	72.00	0.166	0.01
40.80	0.00	72.00	0.166	0.01
42.00	0.00	72.00	0.166	0.01
43.20	0.00	72.00	0.166	0.01

AHYMO				
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
44.40	0.00	72.00	0.166	0.01
45.60	0.00	72.00	0.166	0.01
46.80	0.00	72.00	0.166	0.01
48.00	0.00	72.00	0.166	0.01
49.20	0.00	72.00	0.166	0.01
50.40	0.00	72.00	0.166	0.01
51.60	0.00	72.00	0.166	0.01
52.80	0.00	72.00	0.166	0.01
54.00	0.00	72.00	0.166	0.01
55.20	0.00	72.00	0.166	0.01
56.40	0.00	72.00	0.166	0.01
57.60	0.00	72.00	0.166	0.01
58.80	0.00	72.00	0.166	0.01
60.00	0.00	72.00	0.166	0.01
61.20	0.00	72.00	0.166	0.01
62.40	0.00	72.00	0.166	0.01
63.60	0.00	72.00	0.166	0.01
64.80	0.00	72.00	0.166	0.01
66.00	0.00	72.00	0.166	0.01
67.20	0.00	72.00	0.166	0.01
68.40	0.00	72.00	0.166	0.01
69.60	0.00	72.00	0.166	0.01
70.80	0.00	72.00	0.166	0.01
72.00	0.00	72.00	0.166	0.01
73.20	0.00	72.00	0.166	0.01
74.40	0.00	72.00	0.166	0.01
75.60	0.00	72.00	0.166	0.01
76.80	0.00	72.00	0.166	0.01
78.00	0.00	72.00	0.166	0.01
79.20	0.00	72.00	0.166	0.01
80.40	0.00	72.00	0.166	0.01
81.60	0.00	72.00	0.166	0.01
82.80	0.00	72.00	0.166	0.01
84.00	0.00	72.00	0.166	0.01
85.20	0.00	72.00	0.166	0.01
86.40	0.00	72.00	0.166	0.01
87.60	0.00	72.00	0.166	0.01
88.80	0.00	72.00	0.166	0.01
90.00	0.00	72.00	0.166	0.01
91.20	0.00	72.00	0.166	0.01
92.40	0.00	72.00	0.166	0.01
93.60	0.00	72.00	0.166	0.01
94.80	0.00	72.00	0.166	0.01
96.00	0.00	72.00	0.166	0.01
97.20	0.00	72.00	0.166	0.01
98.40	0.00	72.00	0.166	0.01
99.60	0.00	72.00	0.166	0.01
100.80	0.00	72.00	0.166	0.01
102.00	0.00	72.00	0.166	0.01
103.20	0.00	72.00	0.166	0.01
104.40	0.00	72.00	0.166	0.01
105.60	0.00	72.00	0.166	0.01
106.80	0.00	72.00	0.166	0.01
108.00	0.00	72.00	0.166	0.01
109.20	0.00	72.00	0.166	0.01
110.40	0.00	72.00	0.166	0.01
111.60	0.00	72.00	0.166	0.01
112.80	0.00	72.00	0.166	0.01
114.00	0.00	72.00	0.166	0.01
115.20	0.00	72.00	0.166	0.01
116.40	0.00	72.00	0.166	0.01
117.60	0.00	72.00	0.166	0.01

AHYMO				
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
118.80	0.00	72.00	0.166	0.01
120.00	0.00	72.00	0.166	0.01
121.20	0.00	72.00	0.166	0.01
122.40	0.00	72.00	0.166	0.01
123.60	0.00	72.00	0.166	0.01
124.80	0.00	72.00	0.166	0.01
126.00	0.00	72.00	0.166	0.01
127.20	0.00	72.00	0.166	0.01
128.40	0.00	72.00	0.166	0.01
129.60	0.00	72.00	0.166	0.01
130.80	0.00	72.00	0.166	0.01
132.00	0.00	72.00	0.166	0.01
133.20	0.00	72.00	0.166	0.01
134.40	0.00	72.00	0.166	0.01
135.60	0.00	72.00	0.166	0.01
136.80	0.00	72.00	0.166	0.01
138.00	0.00	72.00	0.166	0.01
139.20	0.00	72.00	0.166	0.01
140.40	0.00	72.00	0.166	0.01
141.60	0.00	72.00	0.166	0.01
142.80	0.00	72.00	0.166	0.01
144.00	0.00	72.00	0.166	0.01
145.20	0.00	72.00	0.166	0.01
146.40	0.00	71.00	0.066	0.01
147.60	0.00	70.98	0.065	0.01
148.80	0.00	70.97	0.064	0.01
150.00	0.00	70.96	0.063	0.01
151.20	0.00	70.94	0.063	0.01
152.40	0.00	70.93	0.062	0.01
153.60	0.00	70.91	0.061	0.01
154.80	0.00	70.90	0.060	0.01
156.00	0.00	70.89	0.059	0.01
157.20	0.00	70.87	0.058	0.01
158.40	0.00	70.86	0.057	0.01
159.60	0.00	70.85	0.056	0.01
160.80	0.00	70.84	0.055	0.01
162.00	0.00	70.82	0.055	0.01
163.20	0.00	70.81	0.054	0.01
164.40	0.00	70.80	0.053	0.01
165.60	0.00	70.79	0.052	0.01
166.80	0.00	70.78	0.051	0.01
168.00	0.00	70.76	0.051	0.01
169.20	0.00	70.75	0.050	0.01
170.40	0.00	70.74	0.049	0.01
171.60	0.00	70.73	0.048	0.01
172.80	0.00	70.72	0.048	0.01
174.00	0.00	70.71	0.047	0.01
175.20	0.00	70.70	0.046	0.01
176.40	0.00	70.69	0.046	0.01
177.60	0.00	70.68	0.045	0.01
178.80	0.00	70.67	0.044	0.01
180.00	0.00	70.66	0.044	0.01
181.20	0.00	70.65	0.043	0.01
182.40	0.00	70.64	0.042	0.01
183.60	0.00	70.63	0.042	0.01
184.80	0.00	70.62	0.041	0.01
186.00	0.00	70.61	0.041	0.01
187.20	0.00	70.60	0.040	0.01
188.40	0.00	70.59	0.039	0.01
189.60	0.00	70.58	0.039	0.01
190.80	0.00	70.57	0.038	0.01
192.00	0.00	70.57	0.038	0.01

			AHYMO	
193.20	0.00	70.56	0.037	0.01
194.40	0.00	70.55	0.037	0.01
195.60	0.00	70.54	0.036	0.01
196.80	0.00	70.53	0.035	0.01
198.00	0.00	70.53	0.035	0.01
199.20	0.00	70.52	0.034	0.01
PEAK DISCHARGE =	16.124 CFS	- PEAK OCCURS AT HOUR	1	70
MAXIMUM WATER SURFACE ELEVATION =	74.449	<75.0, therefore OK		
MAXIMUM STORAGE =	0.5798 AC-FT	INCREMENTAL TIME=		
0.050000HRS				

\*

PRINT HYD ID=55 CODE=1

PARTIAL HYDROGRAPH 200.10

RUNOFF VOLUME =	2.01798 INCHES	=	1.3733 ACRE-FEET
PEAK DISCHARGE RATE =	16.12 CFS	AT	1.700 HOURS BASIN AREA =
0.0128 SQ. MI.			

\*

\*

ADD HYD ID=56 HYD NO=100.22 ID=55 ID=5

PRINT HYD ID=56 CODE=1

PARTIAL HYDROGRAPH 100.22

RUNOFF VOLUME =	2.05879 INCHES	=	1.5614 ACRE-FEET
PEAK DISCHARGE RATE =	18.42 CFS	AT	1.650 HOURS BASIN AREA =
0.0142 SQ. MI.			

\*

\*

ADD HYD ID=57 HYD NO=100.23 ID=56 ID=6

PRINT HYD ID=57 CODE=1

PARTIAL HYDROGRAPH 100.23

RUNOFF VOLUME =	2.06499 INCHES	=	1.6443 ACRE-FEET
PEAK DISCHARGE RATE =	19.91 CFS	AT	1.600 HOURS BASIN AREA =
0.0149 SQ. MI.			

\*

\*

FINISH

AHYMO

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 10:52:52

