

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



November 24, 2014

Scott Steffen, PE
BOHANNAN-HUSTON, INC.
7500 Jefferson Street NE Courtyard I
Albuquerque, NM 87109

Richard J. Berry, Mayor

RE: **Valle Prado Units 1 & 2- (File: C09D011) (DRB # 1004404,) Removal of Offsite Pond 2**
Revised Drainage Report Calculations, (AHYMO, InRoads)
Revised to Grading and Drainage Plan Unit , Engr. Stamp 11-19-2014
Revised Inlet and Storm Drain Network Map, 11-19-2014
Revised Work Order Construction Drwg., Sht 11/19, CPN # 740581
(DRB # 1004404)

Dear Mr. Steffen:

PO Box 1293

Based upon the information provided in your submittals received 11-19-2014 , the above referenced submittals are approved for Grading Permit. This revision removes Offsite Pond 2 from the **Amendment to The Drainage Master Plan for the Trails Units 1,2, and 3(April 2014)** .

Albuquerque

It is noted that the previous change, moving the SD in Woodmont west of Nightshine Street into Sub-basin E1.1, is reflected in the Revised Drainage Report Calculations, (AHYMO, InRoads) and Revised Inlet and Storm Drain Network Map.

New Mexico 87103

If you have any questions, you can contact me at 924-3695.

www.cabq.gov

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf Addressee via Email, Monica Ortiz

November 19, 2014

Curtis Cherne, P. E.
Hydrology Section
City of Albuquerque
P. O. Box 1293
Albuquerque, NM 87103

Re: Valle Prado Units 1 and 2, DRB 1004606, CPN#740581 (C09/D011)
Drainage Report Addendum #2

Dear Curtis:

This letter is an addendum to the previously approved drainage report for Valle Prado Units 1 and 2 (VP DR). The purpose of this addendum is to remove Offsite Pond 2 as shown in The Trails Units 1, 2 and 3 Drainage Master Plan (DMP) from Tract 7. This addendum also assumes that the previous addendum dated 11/12/14, that removes storm drain in Woodmont west of Nightshine Street has been approved. This addendum addresses the following items:

- Removal of Offsite Pond 2 from the VP DR AHYMO analysis
- Revises the Pond E grading based on as-built conditions and changes to the storm drain outfall to the pond
- Modifies the Pond E stage-discharge curve based on the revised grading and increased runoff due to the removal of Offsite Pond 2
- Updates the Inlet and Storm Drain Network Map to reflect the increased flow in the storm drain due to the removal of Offsite Pond 2.

Included for your review are the revised AHYMO input, output and summary output information, revised grading plan, Pond E stage-discharge curve, Pond E stage-storage curve, the revised Inlet and Storm Drain Network Map, and the revised storm drain hydraulic grade line analysis.

Runoff from Offsite Basin 2 into Offsite Pond 2 per the DMP is 13.9 cfs. Outflow from Offsite Pond 2 per the DMP is 4.4 cfs. The increase in peak flow at Pond E resulting from removal of Offsite Pond 2 is 3.0 cfs. The table below provides a summary of Pond E operations with and without Offsite Pond 2.

Engineering ▲

Spatial Data ▲

Advanced Technologies ▲

POND E SUMMARY		
Description	w/Offsite Pond 2	w/o Offsite Pond 2
Peak Inflow, cfs	177.6	180.6
Time to Peak, hrs	1.5	1.5
Peak Outflow, cfs	21.2	20.9
Time to Peak, hrs	2.3	2.5
Max Water Surface, feet	5451.58	5451.57
Storage Volume, ac-ft	5.92	6.59
Peak Flow AP-E, cfs	22.9	21.8
Time to Peak, hrs	2.0	2.0

The revised Pond E analysis results in a peak discharge at Analysis Point E of 21.8 cfs, which is less than the allowed discharge in the DMP of 22.3 cfs. The results of this analysis show that the removal of Offsite Pond 2 does not impact the downstream storm drain or operation of Pond E. Therefore, the removal of Offsite Pond 2 from Tract 7 should be allowed.

If you have any questions or require further information, please feel free to contact me.

Sincerely,



Scott J. Steffen, P.E.
Vice President
Community Development and Planning Group

Enclosures

cc: Rick Beltramo, Wexford Construction



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: _____ Building Permit #: _____ City Drainage #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: _____

City Address: _____

Engineering Firm: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Owner: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Architect: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Surveyor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Contractor: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF SUBMITTAL:

- _____ DRAINAGE REPORT
- _____ DRAINAGE PLAN 1st SUBMITTAL
- _____ DRAINAGE PLAN RESUBMITTAL
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ EROSION & SEDIMENT CONTROL PLAN (ESC)
- _____ ENGINEER'S CERT (HYDROLOGY)
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ ENGINEER'S CERT (TCL)
- _____ ENGINEER'S CERT (DRB SITE PLAN)
- _____ ENGINEER'S CERT (ESC)
- _____ SO-19

_____ OTHER (SPECIFY)
Drainage Plan Addendum

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- _____ SIA/FINANCIAL GUARANTEE RELEASE
- _____ PRELIMINARY PLAT APPROVAL
- _____ S. DEV. PLAN FOR SUB'D APPROVAL
- _____ S. DEV. FOR BLDG. PERMIT APPROVAL
- _____ SECTOR PLAN APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY (PERM)
- _____ CERTIFICATE OF OCCUPANCY (TCL TEMP)
- _____ FOUNDATION PERMIT APPROVAL
- _____ BUILDING PERMIT APPROVAL
- _____ GRADING PERMIT APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ WORK ORDER APPROVAL
- _____ GRADING CERTIFICATION
- _____ SO-19 APPROVAL
- _____ ESC PERMIT APPROVAL
- _____ ESC CERT. ACCEPTANCE
- _____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED: _____ Yes _____ No _____ Copy Provided

DATE SUBMITTED: _____ By: _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = DEV_Cond.HYM

- VERSION: 1997.02c

RUN DATE (MON/DAY/YR) =11/10/2014
USER NO.= AHYMO-S-9702c1BohanHu-AH

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	VALLE PRADO @ THE TRAILS UNIT 3A DRAINAGE BASIN (D) PROPOSED									
*S	100 YEAR - 24 HOUR STORM									
*S										
START										TIME= .00
LOCATION			DEFAULT							
RAINFALL TYPE= 2										RAIN24= 2.660
*S										
*S										
*S										
*S										
*S										
*S										
*S										
*S	COMPUTE BASIN 1									
COMPUTE NM HYD	1.00	-	1	.00500	8.92	.439	1.64591	1.500	2.788	PER IMP= 52.00
*S	COMPUTE BASIN 2									
COMPUTE NM HYD	2.00	-	2	.00451	7.86	.380	1.58072	1.500	2.721	PER IMP= 48.00
*S	COMPUTE BASIN 3									
COMPUTE NM HYD	3.00	-	3	.00688	11.22	.520	1.41777	1.500	2.550	PER IMP= 38.00
*S	COMPUTE BASIN 4									
COMPUTE NM HYD	4.00	-	4	.00359	6.26	.303	1.58072	1.500	2.722	PER IMP= 48.00
*S	COMPUTE BASIN 5									
COMPUTE NM HYD	5.00	-	5	.00188	3.05	.140	1.40148	1.500	2.541	PER IMP= 37.00
*S	COMPUTE FUTURE BASIN 1									
COMPUTE NM HYD	FB.1	-	6	.01078	19.93	1.003	1.74368	1.500	2.888	PER IMP= 58.00
*S	COMPUTE FUTURE BASIN 2									
COMPUTE NM HYD	FB.2	-	7	.00750	13.54	.671	1.67850	1.500	2.821	PER IMP= 54.00
*S	COMPUTE FUTURE BASIN 3									
COMPUTE NM HYD	FB.3	-	8	.00594	10.79	.537	1.69479	1.500	2.839	PER IMP= 55.00
*S	COMPUTE FUTURE BASIN 4									
COMPUTE NM HYD	FB.4	-	9	.00484	8.07	.379	1.46666	1.500	2.602	PER IMP= 41.00
*S	COMPUTE OFFSITE BASIN 2									
COMPUTE NM HYD	OFF.2	-	10	.00094	.62	.023	.45840	1.500	1.035	PER IMP= .00
*S	COMPUTE OFFSITE BASIN 3									
COMPUTE NM HYD	OFF.3	-	11	.00109	.74	.027	.46712	1.500	1.056	PER IMP= .00
*S	COMPUTE OFFSITE BASIN 4									
COMPUTE NM HYD	OFF.4	-	12	.00141	.93	.034	.45840	1.500	1.033	PER IMP= .00
*S	COMPUTE OFFSITE BASIN 5									
COMPUTE NM HYD	OFF.5	-	13	.00328	1.99	.075	.42601	1.500	.948	PER IMP= .00
*S	COMPUTE OFFSITE BASIN WELL									
COMPUTE NM HYD	OFF.WELL	-	14	.00156	2.26	.094	1.12446	1.500	2.256	PER IMP= 20.00
*S										
*S	ADD BASINS 1 AND 2 TO CREATE TEMP A									
ADD HYD	TEMP.A	1& 2	15	.00951	16.78	.819	1.61490	1.500	2.757	

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 = 2 NOTATION
*S ADD BASINS TEMP A AND 3 TO CREATE TEMP 1.B*****										
ADD HYD	TEMP.B 15& 3	16		.01639	28.00	1.339	1.53218	1.500	2.670	
*S ADD BASINS TEMP B AND 5 TO CREATE TEMP C*****										
ADD HYD	TEMP.C 16& 5	17		.01826	31.05	1.479	1.51874	1.500	2.657	
*S ADD BASINS TEMP C AND FUTURE BASIN 1 TO CREATE TEMP D*****										
ADD HYD	TEMP.D 17& 6	18		.02904	50.98	2.482	1.60222	1.500	2.743	
*S ADD BASINS TEMP D AND FUTURE BASIN 2 TO CREATE TEMP E*****										
ADD HYD	TEMP.E 18& 7	19		.03654	64.52	3.153	1.61787	1.500	2.759	
*S ADD BASINS TEMP E AND FUTURE BASIN 3 TO CREATE TEMP F*****										
ADD HYD	TEMP.F 19& 8	20		.04248	75.31	3.690	1.62861	1.500	2.770	
*S ADD BASINS TEMP F AND OFFSITE BASIN 3 TO CREATE TEMP G*****										
ADD HYD	TEMP.G 20&11	21		.04358	76.05	3.717	1.59945	1.500	2.727	
*S ADD BASINS TEMP G AND OFFSITE BASIN 4 TO CREATE TEMP H*****										
ADD HYD	TEMP.H 21&12	22		.04498	76.98	3.752	1.56378	1.500	2.674	
*S ADD BASINS TEMP H AND OFFSITE BASIN WELL TO CREATE TEMP I*****										
ADD HYD	TEMP.I 22&14	23		.04655	79.24	3.845	1.54902	1.500	2.660	
*S ADD BASINS TEMP I AND OFFSITE BASIN 5 TO CREATE TEMP J*****										
ADD HYD	TEMP.J 23&13	24		.04983	81.23	3.920	1.47507	1.500	2.547	
*S TEMP BASIN J REPLACES BASIN E3 AND E5 FROM THE DMP AHYMO FILE*****										
COMPUTE NM HYD	OFFSITE2	-	25	.08050	13.87	1.783	.41534	2.000	.269	PER IMP= .00
COMPUTE NM HYD	BASIN.B	-	28	.01998	34.80	1.407	1.32000	1.500	2.721	PER IMP= 32.00
ROUTE RESERVOIR	POND.B	28	29	.01998	3.36	1.407	1.31999	2.100	.263	AC-FT= .930
ROUTE MCUNGE	RTE.PONDB	29	30	.01998	3.36	1.407	1.32010	2.100	.263	CCODE = .2
ADD HYD	OFF.B 30&25	31		.10048	17.20	3.190	.59523	2.000	.268	
COMPUTE NM HYD	BASINE1.1	-	32	.02753	48.45	1.986	1.35259	1.500	2.750	PER IMP= 34.00
ADD HYD	OFF.E11 32&31	33		.12801	54.83	5.176	.75811	1.500	.669	
COMPUTE NM HYD	BASINE1.2	-	34	.00588	10.36	.424	1.35259	1.500	2.752	PER IMP= 34.00
COMPUTE NM HYD	BASIN.E2	-	35	.01348	27.42	1.324	1.84145	1.500	3.178	PER IMP= 64.00
ADD HYD	E2.E12 34&35	36		.01936	37.77	1.748	1.69294	1.500	3.049	
ROUTE MCUNGE	RTE.E12	36	37	.01936	31.30	1.684	1.63074	1.600	2.526	CCODE = .2
COMPUTE NM HYD	BASIN.E4	-	38	.00577	13.11	.697	2.26513	1.500	3.550	PER IMP= 90.00
ADD HYD	AP1 38&33	39		.13378	67.94	5.873	.82310	1.500	.794	
ROUTE MCUNGE	RTE.E1E4	39	40	.13378	67.94	5.873	.82310	1.500	.794	CCODE = .0
ADD HYD	AP2 37&40	41		.15314	99.13	7.557	.92520	1.500	1.011	
ROUTE MCUNGE	RTE.E1E4	41	42	.15314	99.13	7.557	.92520	1.500	1.011	CCODE = .0
ADD HYD	AP3 42&24	43		.20297	180.36	11.476	1.06018	1.500	1.388	
COMPUTE NM HYD	BASIN.OFF6	-	44	.00140	2.33	.072	.96928	1.500	2.597	PER IMP= .00
ADD HYD	POND 43&44	45		.20437	182.68	11.549	1.05956	1.500	1.397	
ROUTE RESERVOIR	POND.E	45	46	.20437	20.87	10.785	.98950	2.500	.160	AC-FT= 6.590
COMPUTE NM HYD	BASIN.E6	-	47	.00488	11.09	.590	2.26512	1.500	3.550	PER IMP= 90.00
ADD HYD	TOTALE 46&47	48		.20925	21.75	11.375	1.01925	2.000	.162	
FINISH										

AHYMO PROGRAM (AHYMO_97) - - Version: 1997.02c
 RUN DATE (MON/DAY/YR) = 11/10/2014
 START TIME (HR:MIN:SEC) = 15:32:06 USER NO.= AHYMO-S-9702c1BohanHu-AH
 INPUT FILE = DEV_Cond.HYM

*S VALLE PRADO @ THE TRAILS UNIT 3A DRAINAGE BASIN (D) PROPOSED
 *S 100 YEAR - 24 HOUR STORM
 *S
 * CREATED NOVEMBER 10, 2014
 *
 *

*CONVERT TO NMHYMO
 START TIME=0.0 HR PUNCH CODE=0

LOCATION NM
 Soil infiltration values (LAND FACTORS) for this location are not available.
 The following default values were used.
 Land Treatment Initial Abstr.(in) Unif. Infiltr.(in/hour)
 A 0.65 1.67
 B 0.50 1.25
 C 0.35 0.83
 D 0.10 0.04

*

 *

*100 YEAR - 24 HOUR
 RAINFALL TYPE=2 RAIN QUARTER=0
 RAIN ONE=1.84 IN RAIN SIX=2.20 IN
 RAIN DAY=2.66 IN DT=0.10 HRS

COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.
 DT = .100000 HOURS END TIME = 24.000000 HOURS
 .0000 .0060 .0124 .0193 .0266 .0347 .0435
 .0532 .0640 .0764 .0908 .1071 .1266 .1476
 .1796 1.3314 1.5028 1.6393 1.7527 1.8488 1.9308
 1.9485 1.9639 1.9776 1.9899 2.0013 2.0117 2.0215
 2.0306 2.0393 2.0475 2.0553 2.0627 2.0698 2.0766
 2.0832 2.0895 2.0956 2.1015 2.1072 2.1128 2.1182
 2.1234 2.1285 2.1335 2.1383 2.1431 2.1477 2.1522
 2.1566 2.1610 2.1652 2.1694 2.1734 2.1774 2.1814
 2.1852 2.1890 2.1927 2.1964 2.2000 2.2039 2.2078
 2.2117 2.2155 2.2193 2.2231 2.2268 2.2305 2.2342
 2.2379 2.2416 2.2452 2.2488 2.2524 2.2559 2.2595
 2.2630 2.2665 2.2700 2.2734 2.2768 2.2802 2.2836
 2.2870 2.2903 2.2937 2.2970 2.3002 2.3035 2.3068
 2.3100 2.3132 2.3164 2.3196 2.3227 2.3259 2.3290
 2.3321 2.3352 2.3383 2.3413 2.3444 2.3474 2.3504
 2.3534 2.3563 2.3593 2.3622 2.3652 2.3681 2.3710
 2.3739 2.3767 2.3796 2.3824 2.3853 2.3881 2.3909
 2.3937 2.3965 2.3992 2.4020 2.4047 2.4074 2.4101
 2.4128 2.4155 2.4182 2.4208 2.4235 2.4261 2.4287
 2.4314 2.4340 2.4365 2.4391 2.4417 2.4442 2.4468
 2.4493 2.4518 2.4543 2.4568 2.4593 2.4618 2.4643
 2.4667 2.4692 2.4716 2.4740 2.4765 2.4789 2.4813
 2.4837 2.4860 2.4884 2.4908 2.4931 2.4955 2.4978
 2.5001 2.5024 2.5047 2.5070 2.5093 2.5116 2.5139
 2.5161 2.5184 2.5206 2.5229 2.5251 2.5273 2.5295
 2.5317 2.5339 2.5361 2.5383 2.5404 2.5426 2.5448
 2.5469 2.5490 2.5512 2.5533 2.5554 2.5575 2.5596
 2.5617 2.5638 2.5659 2.5680 2.5700 2.5721 2.5741
 2.5762 2.5782 2.5803 2.5823 2.5843 2.5863 2.5883
 2.5903 2.5923 2.5943 2.5963 2.5982 2.6002 2.6022
 2.6041 2.6061 2.6080 2.6099 2.6119 2.6138 2.6157
 2.6176 2.6195 2.6214 2.6233 2.6252 2.6271 2.6290
 2.6308 2.6327 2.6346 2.6364 2.6383 2.6401 2.6419
 2.6438 2.6456 2.6474 2.6492 2.6510 2.6528 2.6546
 2.6564 2.6582 2.6600

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S COMPUTE BASIN 1 *****
*
COMPUTE NM HYD      ID=1 HYD=1  AREA=0.005  PER A=0 PER B=24
                    PER C=24 PER D=52  TP=-0.1715  RAINFALL=-1

K = .093468HR      TP = .171500HR      K/TP RATIO = .545000      SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 7.9785  CFS      UNIT VOLUME = 1.005      B = 526.28      P60 = 1.8400
AREA = .002600 SQ MI      IA = .10000 INCHES      INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR      TP = .171500HR      K/TP RATIO = .889153      SHAPE CONSTANT, N = 3.989068
UNIT PEAK = 4.9601  CFS      UNIT VOLUME = 1.002      B = 354.44      P60 = 1.8400
AREA = .002400 SQ MI      IA = .42500 INCHES      INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD          ID=1      CODE=1

                                OUTFLOW HYDROGRAPH REACH      1.00

RUNOFF VOLUME =      1.64591 INCHES      =      .4389 ACRE-FEET
PEAK DISCHARGE RATE =      8.92 CFS      AT      1.500 HOURS      BASIN AREA = .0050 SQ. MI.

*
S COMPUTE BASIN 2 *****
COMPUTE NM HYD      ID=2 HYD=2  AREA=0.004513  PER A=0 PER B=26
                    PER C=26 PER D=48  TP=-0.1715  RAINFALL=-1

K = .093468HR      TP = .171500HR      K/TP RATIO = .545000      SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 6.6475  CFS      UNIT VOLUME = 1.004      B = 526.28      P60 = 1.8400
AREA = .002166 SQ MI      IA = .10000 INCHES      INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR      TP = .171500HR      K/TP RATIO = .889153      SHAPE CONSTANT, N = 3.989068
UNIT PEAK = 4.8501  CFS      UNIT VOLUME = 1.002      B = 354.44      P60 = 1.8400
AREA = .002347 SQ MI      IA = .42500 INCHES      INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD          ID=2      CODE=1

                                OUTFLOW HYDROGRAPH REACH      2.00

RUNOFF VOLUME =      1.58072 INCHES      =      .3805 ACRE-FEET
PEAK DISCHARGE RATE =      7.86 CFS      AT      1.500 HOURS      BASIN AREA = .0045 SQ. MI.

*
S COMPUTE BASIN 3 *****
COMPUTE NM HYD      ID=3 HYD=3  AREA=0.006875  PER A=0 PER B=31
                    PER C=31 PER D=38  TP=-0.1715  RAINFALL=-1

K = .093468HR      TP = .171500HR      K/TP RATIO = .545000      SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 8.0169  CFS      UNIT VOLUME = 1.005      B = 526.28      P60 = 1.8400
AREA = .002613 SQ MI      IA = .10000 INCHES      INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR      TP = .171500HR      K/TP RATIO = .889153      SHAPE CONSTANT, N = 3.989068
UNIT PEAK = 8.8093  CFS      UNIT VOLUME = 1.003      B = 354.44      P60 = 1.8400
AREA = .004263 SQ MI      IA = .42500 INCHES      INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD          ID=3      CODE=1

                                OUTFLOW HYDROGRAPH REACH      3.00

RUNOFF VOLUME =      1.41777 INCHES      =      .5198 ACRE-FEET
PEAK DISCHARGE RATE =      11.22 CFS      AT      1.500 HOURS      BASIN AREA = .0069 SQ. MI.

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*
*S COMPUTE BASIN 4 *****
COMPUTE NM HYD      ID=4 HYD=4  AREA=0.003594  PER A=0  PER B=26
                      PER C=26  PER D=48  TP=-0.1715  RAINFALL=-1

K = .093468HR      TP = .171500HR      K/TP RATIO = .545000      SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 5.2938      CFS      UNIT VOLUME = 1.004      B = 526.28      P60 = 1.8400
AREA = .001725 SQ MI      IA = .10000 INCHES      INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR      TP = .171500HR      K/TP RATIO = .889153      SHAPE CONSTANT, N = 3.989068
UNIT PEAK = 3.8624      CFS      UNIT VOLUME = 1.001      B = 354.44      P60 = 1.8400
AREA = .001869 SQ MI      IA = .42500 INCHES      INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

```

```

PRINT HYD      ID=4      CODE=1

```

```

OUTFLOW HYDROGRAPH REACH      4.00

```

```

RUNOFF VOLUME = 1.58072 INCHES      = .3030 ACRE-FEET
PEAK DISCHARGE RATE = 6.26 CFS      AT 1.500 HOURS      BASIN AREA = .0036 SQ. MI.

```

```

*
*S COMPUTE BASIN 5 *****
COMPUTE NM HYD      ID=5 HYD=5  AREA=0.001875  PER A=0  PER B=31.5
                      PER C=31.5  PER D=37  TP=-0.1715  RAINFALL=-1

K = .093468HR      TP = .171500HR      K/TP RATIO = .545000      SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 2.1289      CFS      UNIT VOLUME = 1.001      B = 526.28      P60 = 1.8400
AREA = .000694 SQ MI      IA = .10000 INCHES      INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR      TP = .171500HR      K/TP RATIO = .889153      SHAPE CONSTANT, N = 3.989068
UNIT PEAK = 2.4413      CFS      UNIT VOLUME = .9998      B = 354.44      P60 = 1.8400
AREA = .001181 SQ MI      IA = .42500 INCHES      INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

```

```

PRINT HYD      ID=5      CODE=1

```

```

OUTFLOW HYDROGRAPH REACH      5.00

```

```

RUNOFF VOLUME = 1.40148 INCHES      = .1401 ACRE-FEET
PEAK DISCHARGE RATE = 3.05 CFS      AT 1.500 HOURS      BASIN AREA = .0019 SQ. MI.

```

```

*
*S COMPUTE FUTURE BASIN 1 *****
COMPUTE NM HYD      ID=6 HYD=FB.1  AREA=0.010781  PER A=0  PER B=21
                      PER C=21  PER D=58  TP=-0.1715  RAINFALL=-1

K = .093468HR      TP = .171500HR      K/TP RATIO = .545000      SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 19.188      CFS      UNIT VOLUME = 1.005      B = 526.28      P60 = 1.8400
AREA = .006253 SQ MI      IA = .10000 INCHES      INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR      TP = .171500HR      K/TP RATIO = .889153      SHAPE CONSTANT, N = 3.989068
UNIT PEAK = 9.3581      CFS      UNIT VOLUME = 1.003      B = 354.44      P60 = 1.8400
AREA = .004528 SQ MI      IA = .42500 INCHES      INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

```

```

PRINT HYD      ID=6      CODE=1

```

```

HYDROGRAPH FROM AREA FB.1

```

```

RUNOFF VOLUME = 1.74368 INCHES      = 1.0026 ACRE-FEET
PEAK DISCHARGE RATE = 19.93 CFS      AT 1.500 HOURS      BASIN AREA = .0108 SQ. MI.

```

```

*
*S COMPUTE FUTURE BASIN 2 *****
COMPUTE NM HYD      ID=7 HYD=FB.2 AREA=0.0075 PER A=0 PER B=23
                      PER C=23 PER D=54 TP=-0.1715 RAINFALL=-1

K = .093468HR    TP = .171500HR    K/TP RATIO = .545000    SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 12.428 CFS    UNIT VOLUME = 1.005    B = 526.28    P60 = 1.8400
AREA = .004050 SQ MI    IA = .10000 INCHES    INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR    TP = .171500HR    K/TP RATIO = .889153    SHAPE CONSTANT, N = 3.989068
UNIT PEAK = 7.1301 CFS    UNIT VOLUME = 1.002    B = 354.44    P60 = 1.8400
AREA = .003450 SQ MI    IA = .42500 INCHES    INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

```

PRINT HYD ID=7 CODE=1

HYDROGRAPH FROM AREA FB.2

RUNOFF VOLUME = 1.67850 INCHES = .6714 ACRE-FEET
 PEAK DISCHARGE RATE = 13.54 CFS AT 1.500 HOURS BASIN AREA = .0075 SQ. MI.

```

*
*S COMPUTE FUTURE BASIN 3 *****
COMPUTE NM HYD      ID=8 HYD=FB.3 AREA=0.005938 PER A=0 PER B=22.5
                      PER C=22.5 PER D=55 TP=-0.1715 RAINFALL=-1

K = .093468HR    TP = .171500HR    K/TP RATIO = .545000    SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 10.022 CFS    UNIT VOLUME = 1.005    B = 526.28    P60 = 1.8400
AREA = .003266 SQ MI    IA = .10000 INCHES    INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR    TP = .171500HR    K/TP RATIO = .889153    SHAPE CONSTANT, N = 3.989068
UNIT PEAK = 5.5224 CFS    UNIT VOLUME = 1.002    B = 354.44    P60 = 1.8400
AREA = .002672 SQ MI    IA = .42500 INCHES    INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

```

PRINT HYD ID=8 CODE=1

HYDROGRAPH FROM AREA FB.3

RUNOFF VOLUME = 1.69479 INCHES = .5367 ACRE-FEET
 PEAK DISCHARGE RATE = 10.79 CFS AT 1.500 HOURS BASIN AREA = .0059 SQ. MI.

```

*
*S COMPUTE FUTURE BASIN 4 *****
COMPUTE NM HYD      ID=9 HYD=FB.4 AREA=0.004844 PER A=0 PER B=29.5
                      PER C=29.5 PER D=41 TP=-0.1715 RAINFALL=-1

K = .093468HR    TP = .171500HR    K/TP RATIO = .545000    SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 6.0945 CFS    UNIT VOLUME = 1.004    B = 526.28    P60 = 1.8400
AREA = .001986 SQ MI    IA = .10000 INCHES    INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR    TP = .171500HR    K/TP RATIO = .889153    SHAPE CONSTANT, N = 3.989068
UNIT PEAK = 5.9066 CFS    UNIT VOLUME = 1.002    B = 354.44    P60 = 1.8400
AREA = .002858 SQ MI    IA = .42500 INCHES    INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

```

PRINT HYD ID=9 CODE=1

HYDROGRAPH FROM AREA FB.4

RUNOFF VOLUME = 1.46666 INCHES = .3789 ACRE-FEET
 PEAK DISCHARGE RATE = 8.07 CFS AT 1.500 HOURS BASIN AREA = .0048 SQ. MI.

*

*S COMPUTE OFFSITE BASIN 2 *****

COMPUTE NM HYD ID=10 HYD=OFF.2 AREA=0.000938 PER A=80 PER B=20
PER C=0 PER D=0 TP=-0.1715 RAINFALL=-1

K = .203093HR TP = .171500HR K/TP RATIO = 1.184216 SHAPE CONSTANT, N = 2.997519
UNIT PEAK = 1.5403 CFS UNIT VOLUME = .9852 B = 281.62 P60 = 1.8400
AREA = .000938 SQ MI IA = .62000 INCHES INF = 1.58600 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=10 CODE=1

HYDROGRAPH FROM AREA OFF.2

RUNOFF VOLUME = .45840 INCHES = .0229 ACRE-FEET
PEAK DISCHARGE RATE = .62 CFS AT 1.500 HOURS BASIN AREA = .0009 SQ. MI.

*

*S COMPUTE OFFSITE BASIN 3 *****

COMPUTE NM HYD ID=11 HYD=OFF.3 AREA=0.001094 PER A=76 PER B=24
PER C=0 PER D=0 TP=-0.1715 RAINFALL=-1

K = .201399HR TP = .171500HR K/TP RATIO = 1.174338 SHAPE CONSTANT, N = 3.020870
UNIT PEAK = 1.8086 CFS UNIT VOLUME = .9871 B = 283.52 P60 = 1.8400
AREA = .001094 SQ MI IA = .61400 INCHES INF = 1.56920 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=11 CODE=1

HYDROGRAPH FROM AREA OFF.3

RUNOFF VOLUME = .46712 INCHES = .0273 ACRE-FEET
PEAK DISCHARGE RATE = .74 CFS AT 1.500 HOURS BASIN AREA = .0011 SQ. MI.

*

*S COMPUTE OFFSITE BASIN 4 *****

COMPUTE NM HYD ID=12 HYD=OFF.4 AREA=0.001406 PER A=80 PER B=20
PER C=0 PER D=0 TP=-0.1715 RAINFALL=-1

K = .203093HR TP = .171500HR K/TP RATIO = 1.184216 SHAPE CONSTANT, N = 2.997519
UNIT PEAK = 2.3088 CFS UNIT VOLUME = .9875 B = 281.62 P60 = 1.8400
AREA = .001406 SQ MI IA = .62000 INCHES INF = 1.58600 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=12 CODE=1

HYDROGRAPH FROM AREA OFF.4

RUNOFF VOLUME = .45840 INCHES = .0344 ACRE-FEET
PEAK DISCHARGE RATE = .93 CFS AT 1.500 HOURS BASIN AREA = .0014 SQ. MI.

*

*S COMPUTE OFFSITE BASIN 5 *****

COMPUTE NM HYD ID=13 HYD=OFF.5 AREA=0.003281 PER A=95 PER B=5
PER C=0 PER D=0 TP=-0.1715 RAINFALL=-1

K = .209446HR TP = .171500HR K/TP RATIO = 1.221261 SHAPE CONSTANT, N = 2.914129
UNIT PEAK = 5.2562 CFS UNIT VOLUME = .9902 B = 274.74 P60 = 1.8400
AREA = .003281 SQ MI IA = .64250 INCHES INF = 1.64900 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=13 CODE=1

HYDROGRAPH FROM AREA OFF.5

RUNOFF VOLUME = .42601 INCHES = .0745 ACRE-FEET
PEAK DISCHARGE RATE = 1.99 CFS AT 1.500 HOURS BASIN AREA = .0033 SQ. MI.

*

*S COMPUTE OFFSITE BASIN WELL *****

COMPUTE NM HYD ID=14 HYD=OFF.WELL AREA=0.001563 PER A=0 PER B=40
PER C=40 PER D=20 TP=-0.1715 RAINFALL=-1

K = .093468HR TP = .171500HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = .95926 CFS UNIT VOLUME = .9998 B = 526.28 P60 = 1.8400
 AREA = .000313 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .152490HR TP = .171500HR K/TP RATIO = .889153 SHAPE CONSTANT, N = 3.989068
 UNIT PEAK = 2.5842 CFS UNIT VOLUME = .9998 B = 354.44 P60 = 1.8400
 AREA = .001250 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=14 CODE=1

HYDROGRAPH FROM AREA OFF.WELL

RUNOFF VOLUME = 1.12446 INCHES = .0937 ACRE-FEET
 PEAK DISCHARGE RATE = 2.26 CFS AT 1.500 HOURS BASIN AREA = .0016 SQ. MI.

*
 *S
 *
 *S ADD BASINS 1 AND 2 TO CREATE TEMP A *****
 ADD HYD ID=15 HYD=TEMP.A ID I=1 II=2
 PRINT HYD ID=15 CODE=0

HYDROGRAPH FROM AREA TEMP.A

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.1	10.000	.1	15.000	.1	20.000	.1
.100	.0	5.100	.1	10.100	.1	15.100	.1	20.100	.1
.200	.0	5.200	.1	10.200	.1	15.200	.1	20.200	.1
.300	.0	5.300	.1	10.300	.1	15.300	.1	20.300	.1
.400	.0	5.400	.1	10.400	.1	15.400	.1	20.400	.1
.500	.0	5.500	.1	10.500	.1	15.500	.1	20.500	.1
.600	.0	5.600	.1	10.600	.1	15.600	.1	20.600	.1
.700	.0	5.700	.1	10.700	.1	15.700	.1	20.700	.1
.800	.0	5.800	.1	10.800	.1	15.800	.1	20.800	.1
.900	.0	5.900	.1	10.900	.1	15.900	.1	20.900	.1
1.000	.0	6.000	.1	11.000	.1	16.000	.1	21.000	.1
1.100	.0	6.100	.1	11.100	.1	16.100	.1	21.100	.1
1.200	.6	6.200	.1	11.200	.1	16.200	.1	21.200	.1
1.300	2.9	6.300	.1	11.300	.1	16.300	.1	21.300	.1
1.400	10.5	6.400	.1	11.400	.1	16.400	.1	21.400	.1
1.500	16.8	6.500	.1	11.500	.1	16.500	.1	21.500	.1
1.600	14.4	6.600	.1	11.600	.1	16.600	.1	21.600	.1
1.700	9.8	6.700	.1	11.700	.1	16.700	.1	21.700	.1
1.800	6.9	6.800	.1	11.800	.1	16.800	.1	21.800	.1
1.900	5.2	6.900	.1	11.900	.1	16.900	.1	21.900	.1
2.000	4.2	7.000	.1	12.000	.1	17.000	.1	22.000	.1
2.100	3.1	7.100	.1	12.100	.1	17.100	.1	22.100	.1
2.200	1.9	7.200	.1	12.200	.1	17.200	.1	22.200	.1
2.300	1.3	7.300	.1	12.300	.1	17.300	.1	22.300	.1
2.400	1.0	7.400	.1	12.400	.1	17.400	.1	22.400	.1
2.500	.8	7.500	.1	12.500	.1	17.500	.1	22.500	.1
2.600	.6	7.600	.1	12.600	.1	17.600	.1	22.600	.1
2.700	.5	7.700	.1	12.700	.1	17.700	.1	22.700	.1
2.800	.4	7.800	.1	12.800	.1	17.800	.1	22.800	.1
2.900	.3	7.900	.1	12.900	.1	17.900	.1	22.900	.1
3.000	.3	8.000	.1	13.000	.1	18.000	.1	23.000	.1
3.100	.2	8.100	.1	13.100	.1	18.100	.1	23.100	.1
3.200	.2	8.200	.1	13.200	.1	18.200	.1	23.200	.1
3.300	.2	8.300	.1	13.300	.1	18.300	.1	23.300	.1
3.400	.2	8.400	.1	13.400	.1	18.400	.1	23.400	.1
3.500	.1	8.500	.1	13.500	.1	18.500	.1	23.500	.1
3.600	.1	8.600	.1	13.600	.1	18.600	.1	23.600	.1
3.700	.1	8.700	.1	13.700	.1	18.700	.1	23.700	.1
3.800	.1	8.800	.1	13.800	.1	18.800	.1	23.800	.1
3.900	.1	8.900	.1	13.900	.1	18.900	.1	23.900	.1
4.000	.1	9.000	.1	14.000	.1	19.000	.1	24.000	.1
4.100	.1	9.100	.1	14.100	.1	19.100	.1	24.100	.0
4.200	.1	9.200	.1	14.200	.1	19.200	.1	24.200	.0
4.300	.1	9.300	.1	14.300	.1	19.300	.1	24.300	.0
4.400	.1	9.400	.1	14.400	.1	19.400	.1	24.400	.0
4.500	.1	9.500	.1	14.500	.1	19.500	.1	24.500	.0
4.600	.1	9.600	.1	14.600	.1	19.600	.1	24.600	.0
4.700	.1	9.700	.1	14.700	.1	19.700	.1	24.700	.0
4.800	.1	9.800	.1	14.800	.1	19.800	.1		
4.900	.1	9.900	.1	14.900	.1	19.900	.1		

RUNOFF VOLUME = 1.61490 INCHES = .8193 ACRE-FEET
 PEAK DISCHARGE RATE = 16.78 CFS AT 1.500 HOURS BASIN AREA = .0095 SQ. MI.

*
 *S ADD BASINS TEMP A AND 3 TO CREATE TEMP 1.B*****
 ADD HYD ID=16 HYD=TEMP.B ID I=15 II=3
 PRINT HYD ID=16 CODE=0

HYDROGRAPH FROM AREA TEMP.B

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.1	10.000	.1	15.000	.1	20.000	.1
.100	.0	5.100	.1	10.100	.1	15.100	.1	20.100	.1
.200	.0	5.200	.2	10.200	.1	15.200	.1	20.200	.1
.300	.0	5.300	.2	10.300	.1	15.300	.1	20.300	.1
.400	.0	5.400	.2	10.400	.1	15.400	.1	20.400	.1
.500	.0	5.500	.2	10.500	.1	15.500	.1	20.500	.1
.600	.0	5.600	.2	10.600	.1	15.600	.1	20.600	.1
.700	.0	5.700	.2	10.700	.1	15.700	.1	20.700	.1
.800	.0	5.800	.2	10.800	.1	15.800	.1	20.800	.1
.900	.0	5.900	.2	10.900	.1	15.900	.1	20.900	.1
1.000	.0	6.000	.2	11.000	.1	16.000	.1	21.000	.1
1.100	.1	6.100	.2	11.100	.1	16.100	.1	21.100	.1
1.200	1.0	6.200	.2	11.200	.1	16.200	.1	21.200	.1
1.300	4.6	6.300	.2	11.300	.1	16.300	.1	21.300	.1
1.400	17.3	6.400	.2	11.400	.1	16.400	.1	21.400	.1
1.500	28.0	6.500	.2	11.500	.1	16.500	.1	21.500	.1
1.600	24.1	6.600	.2	11.600	.1	16.600	.1	21.600	.1
1.700	16.3	6.700	.2	11.700	.1	16.700	.1	21.700	.1
1.800	11.5	6.800	.2	11.800	.1	16.800	.1	21.800	.1
1.900	8.5	6.900	.2	11.900	.1	16.900	.1	21.900	.1
2.000	6.7	7.000	.2	12.000	.1	17.000	.1	22.000	.1
2.100	4.9	7.100	.2	12.100	.1	17.100	.1	22.100	.1
2.200	3.0	7.200	.2	12.200	.1	17.200	.1	22.200	.1
2.300	2.1	7.300	.2	12.300	.1	17.300	.1	22.300	.1
2.400	1.6	7.400	.2	12.400	.1	17.400	.1	22.400	.1
2.500	1.3	7.500	.2	12.500	.1	17.500	.1	22.500	.1
2.600	1.0	7.600	.2	12.600	.1	17.600	.1	22.600	.1
2.700	.8	7.700	.2	12.700	.1	17.700	.1	22.700	.1
2.800	.7	7.800	.2	12.800	.1	17.800	.1	22.800	.1
2.900	.5	7.900	.2	12.900	.1	17.900	.1	22.900	.1
3.000	.5	8.000	.2	13.000	.1	18.000	.1	23.000	.1
3.100	.4	8.100	.2	13.100	.1	18.100	.1	23.100	.1
3.200	.3	8.200	.2	13.200	.1	18.200	.1	23.200	.1
3.300	.3	8.300	.2	13.300	.1	18.300	.1	23.300	.1
3.400	.2	8.400	.2	13.400	.1	18.400	.1	23.400	.1
3.500	.2	8.500	.2	13.500	.1	18.500	.1	23.500	.1
3.600	.2	8.600	.2	13.600	.1	18.600	.1	23.600	.1
3.700	.2	8.700	.2	13.700	.1	18.700	.1	23.700	.1
3.800	.2	8.800	.2	13.800	.1	18.800	.1	23.800	.1
3.900	.2	8.900	.2	13.900	.1	18.900	.1	23.900	.1
4.000	.2	9.000	.2	14.000	.1	19.000	.1	24.000	.1
4.100	.1	9.100	.2	14.100	.1	19.100	.1	24.100	.1
4.200	.1	9.200	.2	14.200	.1	19.200	.1	24.200	.0
4.300	.1	9.300	.2	14.300	.1	19.300	.1	24.300	.0
4.400	.1	9.400	.2	14.400	.1	19.400	.1	24.400	.0
4.500	.1	9.500	.2	14.500	.1	19.500	.1	24.500	.0
4.600	.1	9.600	.2	14.600	.1	19.600	.1	24.600	.0
4.700	.1	9.700	.2	14.700	.1	19.700	.1	24.700	.0
4.800	.1	9.800	.1	14.800	.1	19.800	.1		
4.900	.1	9.900	.1	14.900	.1	19.900	.1		

RUNOFF VOLUME = 1.53218 INCHES = 1.3392 ACRE-FEET
 PEAK DISCHARGE RATE = 28.00 CFS AT 1.500 HOURS BASIN AREA = .0164 SQ. MI.

*
 *S ADD BASINS TEMP B AND 5 TO CREATE TEMP C*****
 ADD HYD ID=17 HYD=TEMP.C ID I=16 II=5
 PRINT HYD ID=17 CODE=0

HYDROGRAPH FROM AREA TEMP.C

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.2	10.000	.2	15.000	.1	20.000	.1
.100	.0	5.100	.2	10.100	.2	15.100	.1	20.100	.1
.200	.0	5.200	.2	10.200	.2	15.200	.1	20.200	.1
.300	.0	5.300	.2	10.300	.2	15.300	.1	20.300	.1
.400	.0	5.400	.2	10.400	.2	15.400	.1	20.400	.1
.500	.0	5.500	.2	10.500	.2	15.500	.1	20.500	.1
.600	.0	5.600	.2	10.600	.2	15.600	.1	20.600	.1
.700	.0	5.700	.2	10.700	.2	15.700	.1	20.700	.1
.800	.0	5.800	.2	10.800	.2	15.800	.1	20.800	.1
.900	.0	5.900	.2	10.900	.2	15.900	.1	20.900	.1
1.000	.0	6.000	.2	11.000	.2	16.000	.1	21.000	.1
1.100	.1	6.100	.2	11.100	.2	16.100	.1	21.100	.1
1.200	1.1	6.200	.2	11.200	.2	16.200	.1	21.200	.1
1.300	5.0	6.300	.2	11.300	.2	16.300	.1	21.300	.1
1.400	19.2	6.400	.2	11.400	.1	16.400	.1	21.400	.1
1.500	31.1	6.500	.2	11.500	.1	16.500	.1	21.500	.1
1.600	26.7	6.600	.2	11.600	.1	16.600	.1	21.600	.1
1.700	18.1	6.700	.2	11.700	.1	16.700	.1	21.700	.1
1.800	12.7	6.800	.2	11.800	.1	16.800	.1	21.800	.1
1.900	9.4	6.900	.2	11.900	.1	16.900	.1	21.900	.1
2.000	7.4	7.000	.2	12.000	.1	17.000	.1	22.000	.1
2.100	5.5	7.100	.2	12.100	.1	17.100	.1	22.100	.1
2.200	3.3	7.200	.2	12.200	.1	17.200	.1	22.200	.1
2.300	2.3	7.300	.2	12.300	.1	17.300	.1	22.300	.1
2.400	1.8	7.400	.2	12.400	.1	17.400	.1	22.400	.1
2.500	1.4	7.500	.2	12.500	.1	17.500	.1	22.500	.1
2.600	1.1	7.600	.2	12.600	.1	17.600	.1	22.600	.1
2.700	.9	7.700	.2	12.700	.1	17.700	.1	22.700	.1
2.800	.7	7.800	.2	12.800	.1	17.800	.1	22.800	.1
2.900	.6	7.900	.2	12.900	.1	17.900	.1	22.900	.1
3.000	.5	8.000	.2	13.000	.1	18.000	.1	23.000	.1
3.100	.4	8.100	.2	13.100	.1	18.100	.1	23.100	.1
3.200	.4	8.200	.2	13.200	.1	18.200	.1	23.200	.1
3.300	.3	8.300	.2	13.300	.1	18.300	.1	23.300	.1
3.400	.3	8.400	.2	13.400	.1	18.400	.1	23.400	.1
3.500	.2	8.500	.2	13.500	.1	18.500	.1	23.500	.1
3.600	.2	8.600	.2	13.600	.1	18.600	.1	23.600	.1
3.700	.2	8.700	.2	13.700	.1	18.700	.1	23.700	.1
3.800	.2	8.800	.2	13.800	.1	18.800	.1	23.800	.1
3.900	.2	8.900	.2	13.900	.1	18.900	.1	23.900	.1
4.000	.2	9.000	.2	14.000	.1	19.000	.1	24.000	.1
4.100	.2	9.100	.2	14.100	.1	19.100	.1	24.100	.1
4.200	.2	9.200	.2	14.200	.1	19.200	.1	24.200	.0
4.300	.2	9.300	.2	14.300	.1	19.300	.1	24.300	.0
4.400	.2	9.400	.2	14.400	.1	19.400	.1	24.400	.0
4.500	.2	9.500	.2	14.500	.1	19.500	.1	24.500	.0
4.600	.2	9.600	.2	14.600	.1	19.600	.1	24.600	.0
4.700	.2	9.700	.2	14.700	.1	19.700	.1	24.700	.0
4.800	.2	9.800	.2	14.800	.1	19.800	.1		
4.900	.2	9.900	.2	14.900	.1	19.900	.1		

RUNOFF VOLUME = 1.51874 INCHES = 1.4793 ACRE-FEET
 PEAK DISCHARGE RATE = 31.05 CFS AT 1.500 HOURS BASIN AREA = .0183 SQ. MI.

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*S ADD BASINS TEMP C AND FUTURE BASIN 1 TO CREATE TEMP D*****
 ADD HYD ID=18 HYD=TEMP.D ID I=17 II=6
 PRINT HYD ID=18 CODE=0

HYDROGRAPH FROM AREA TEMP.D

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.3	10.000	.3	15.000	.2	20.000	.2
.100	.0	5.100	.3	10.100	.3	15.100	.2	20.100	.2
.200	.0	5.200	.3	10.200	.3	15.200	.2	20.200	.2
.300	.0	5.300	.3	10.300	.3	15.300	.2	20.300	.2
.400	.0	5.400	.3	10.400	.3	15.400	.2	20.400	.2
.500	.0	5.500	.3	10.500	.3	15.500	.2	20.500	.2
.600	.0	5.600	.3	10.600	.3	15.600	.2	20.600	.2
.700	.0	5.700	.3	10.700	.3	15.700	.2	20.700	.2
.800	.0	5.800	.3	10.800	.3	15.800	.2	20.800	.2
.900	.0	5.900	.3	10.900	.3	15.900	.2	20.900	.2
1.000	.0	6.000	.3	11.000	.3	16.000	.2	21.000	.2
1.100	.1	6.100	.3	11.100	.3	16.100	.2	21.100	.2
1.200	1.9	6.200	.4	11.200	.3	16.200	.2	21.200	.2
1.300	8.8	6.300	.4	11.300	.3	16.300	.2	21.300	.2
1.400	31.9	6.400	.4	11.400	.3	16.400	.2	21.400	.2
1.500	51.0	6.500	.4	11.500	.3	16.500	.2	21.500	.2
1.600	43.7	6.600	.4	11.600	.3	16.600	.2	21.600	.2
1.700	29.7	6.700	.3	11.700	.3	16.700	.2	21.700	.2
1.800	21.0	6.800	.3	11.800	.3	16.800	.2	21.800	.2
1.900	15.8	6.900	.3	11.900	.3	16.900	.2	21.900	.2
2.000	12.6	7.000	.3	12.000	.3	17.000	.2	22.000	.2
2.100	9.3	7.100	.3	12.100	.3	17.100	.2	22.100	.2
2.200	5.6	7.200	.3	12.200	.3	17.200	.2	22.200	.2
2.300	3.9	7.300	.3	12.300	.3	17.300	.2	22.300	.2
2.400	3.0	7.400	.3	12.400	.3	17.400	.2	22.400	.2
2.500	2.3	7.500	.3	12.500	.3	17.500	.2	22.500	.2
2.600	1.9	7.600	.3	12.600	.3	17.600	.2	22.600	.2
2.700	1.5	7.700	.3	12.700	.3	17.700	.2	22.700	.2
2.800	1.2	7.800	.3	12.800	.2	17.800	.2	22.800	.2
2.900	1.0	7.900	.3	12.900	.2	17.900	.2	22.900	.2
3.000	.8	8.000	.3	13.000	.2	18.000	.2	23.000	.2
3.100	.7	8.100	.3	13.100	.2	18.100	.2	23.100	.2
3.200	.6	8.200	.3	13.200	.2	18.200	.2	23.200	.2
3.300	.5	8.300	.3	13.300	.2	18.300	.2	23.300	.2
3.400	.5	8.400	.3	13.400	.2	18.400	.2	23.400	.2
3.500	.4	8.500	.3	13.500	.2	18.500	.2	23.500	.2
3.600	.4	8.600	.3	13.600	.2	18.600	.2	23.600	.2
3.700	.4	8.700	.3	13.700	.2	18.700	.2	23.700	.2
3.800	.3	8.800	.3	13.800	.2	18.800	.2	23.800	.2
3.900	.3	8.900	.3	13.900	.2	18.900	.2	23.900	.2
4.000	.3	9.000	.3	14.000	.2	19.000	.2	24.000	.2
4.100	.3	9.100	.3	14.100	.2	19.100	.2	24.100	.1
4.200	.3	9.200	.3	14.200	.2	19.200	.2	24.200	.1
4.300	.3	9.300	.3	14.300	.2	19.300	.2	24.300	.0
4.400	.3	9.400	.3	14.400	.2	19.400	.2	24.400	.0
4.500	.3	9.500	.3	14.500	.2	19.500	.2	24.500	.0
4.600	.3	9.600	.3	14.600	.2	19.600	.2	24.600	.0
4.700	.3	9.700	.3	14.700	.2	19.700	.2	24.700	.0
4.800	.3	9.800	.3	14.800	.2	19.800	.2	24.800	.0
4.900	.3	9.900	.3	14.900	.2	19.900	.2	24.900	.0

RUNOFF VOLUME = 1.60222 INCHES = 2.4818 ACRE-FEET
 PEAK DISCHARGE RATE = 50.98 CFS AT 1.500 HOURS BASIN AREA = .0290 SQ. MI.

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*S ADD BASINS TEMP D AND FUTURE BASIN 2 TO CREATE TEMP E*****
 ADD HYD ID=19 HYD=TEMP.E ID I=18 II=7
 PRINT HYD ID=19 CODE=0

HYDROGRAPH FROM AREA TEMP.E

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.4	10.000	.4	15.000	.3	20.000	.2
.100	.0	5.100	.4	10.100	.4	15.100	.3	20.100	.2
.200	.0	5.200	.4	10.200	.4	15.200	.3	20.200	.2
.300	.0	5.300	.4	10.300	.4	15.300	.3	20.300	.2
.400	.0	5.400	.4	10.400	.4	15.400	.3	20.400	.2
.500	.0	5.500	.4	10.500	.4	15.500	.3	20.500	.2
.600	.0	5.600	.4	10.600	.4	15.600	.3	20.600	.2
.700	.0	5.700	.4	10.700	.4	15.700	.3	20.700	.2
.800	.0	5.800	.4	10.800	.4	15.800	.3	20.800	.2
.900	.0	5.900	.4	10.900	.4	15.900	.3	20.900	.2
1.000	.0	6.000	.4	11.000	.4	16.000	.3	21.000	.2
1.100	.1	6.100	.4	11.100	.3	16.100	.3	21.100	.2
1.200	2.4	6.200	.4	11.200	.3	16.200	.3	21.200	.2
1.300	11.3	6.300	.5	11.300	.3	16.300	.3	21.300	.2
1.400	40.4	6.400	.5	11.400	.3	16.400	.3	21.400	.2
1.500	64.5	6.500	.5	11.500	.3	16.500	.3	21.500	.2
1.600	55.2	6.600	.5	11.600	.3	16.600	.3	21.600	.2
1.700	37.5	6.700	.4	11.700	.3	16.700	.3	21.700	.2
1.800	26.6	6.800	.4	11.800	.3	16.800	.3	21.800	.2
1.900	20.1	6.900	.4	11.900	.3	16.900	.3	21.900	.2
2.000	16.0	7.000	.4	12.000	.3	17.000	.3	22.000	.2
2.100	11.8	7.100	.4	12.100	.3	17.100	.3	22.100	.2
2.200	7.2	7.200	.4	12.200	.3	17.200	.3	22.200	.2
2.300	4.9	7.300	.4	12.300	.3	17.300	.3	22.300	.2
2.400	3.8	7.400	.4	12.400	.3	17.400	.3	22.400	.2
2.500	3.0	7.500	.4	12.500	.3	17.500	.3	22.500	.2
2.600	2.4	7.600	.4	12.600	.3	17.600	.3	22.600	.2
2.700	1.9	7.700	.4	12.700	.3	17.700	.3	22.700	.2
2.800	1.6	7.800	.4	12.800	.3	17.800	.3	22.800	.2
2.900	1.3	7.900	.4	12.900	.3	17.900	.3	22.900	.2
3.000	1.1	8.000	.4	13.000	.3	18.000	.3	23.000	.2
3.100	.9	8.100	.4	13.100	.3	18.100	.3	23.100	.2
3.200	.8	8.200	.4	13.200	.3	18.200	.3	23.200	.2
3.300	.7	8.300	.4	13.300	.3	18.300	.3	23.300	.2
3.400	.6	8.400	.4	13.400	.3	18.400	.3	23.400	.2
3.500	.5	8.500	.4	13.500	.3	18.500	.3	23.500	.2
3.600	.5	8.600	.4	13.600	.3	18.600	.3	23.600	.2
3.700	.5	8.700	.4	13.700	.3	18.700	.3	23.700	.2
3.800	.4	8.800	.4	13.800	.3	18.800	.2	23.800	.2
3.900	.4	8.900	.4	13.900	.3	18.900	.2	23.900	.2
4.000	.4	9.000	.4	14.000	.3	19.000	.2	24.000	.2
4.100	.4	9.100	.4	14.100	.3	19.100	.2	24.100	.2
4.200	.4	9.200	.4	14.200	.3	19.200	.2	24.200	.1
4.300	.4	9.300	.4	14.300	.3	19.300	.2	24.300	.0
4.400	.4	9.400	.4	14.400	.3	19.400	.2	24.400	.0
4.500	.4	9.500	.4	14.500	.3	19.500	.2	24.500	.0
4.600	.4	9.600	.4	14.600	.3	19.600	.2	24.600	.0
4.700	.4	9.700	.4	14.700	.3	19.700	.2	24.700	.0
4.800	.4	9.800	.4	14.800	.3	19.800	.2	24.800	.0
4.900	.4	9.900	.4	14.900	.3	19.900	.2	24.900	.0

RUNOFF VOLUME = 1.61787 INCHES = 3.1532 ACRE-FEET
 PEAK DISCHARGE RATE = 64.52 CFS AT 1.500 HOURS BASIN AREA = .0365 SQ. MI.

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*S ADD BASINS TEMP E AND FUTURE BASIN 3 TO CREATE TEMP F*****
 ADD HYD ID=20 HYD=TEMP.F ID I=19 II=8
 PRINT HYD ID=20 CODE=0

HYDROGRAPH FROM AREA TEMP.F

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.4	10.000	.4	15.000	.3	20.000	.3
.100	.0	5.100	.4	10.100	.4	15.100	.3	20.100	.3
.200	.0	5.200	.4	10.200	.4	15.200	.3	20.200	.3
.300	.0	5.300	.4	10.300	.4	15.300	.3	20.300	.3
.400	.0	5.400	.5	10.400	.4	15.400	.3	20.400	.3
.500	.0	5.500	.5	10.500	.4	15.500	.3	20.500	.3
.600	.0	5.600	.5	10.600	.4	15.600	.3	20.600	.3
.700	.0	5.700	.5	10.700	.4	15.700	.3	20.700	.3
.800	.0	5.800	.5	10.800	.4	15.800	.3	20.800	.3
.900	.0	5.900	.5	10.900	.4	15.900	.3	20.900	.3
1.000	.0	6.000	.5	11.000	.4	16.000	.3	21.000	.3
1.100	.2	6.100	.5	11.100	.4	16.100	.3	21.100	.3
1.200	2.8	6.200	.5	11.200	.4	16.200	.3	21.200	.3
1.300	13.3	6.300	.5	11.300	.4	16.300	.3	21.300	.3
1.400	47.2	6.400	.5	11.400	.4	16.400	.3	21.400	.3
1.500	75.3	6.500	.5	11.500	.4	16.500	.3	21.500	.3
1.600	64.4	6.600	.5	11.600	.4	16.600	.3	21.600	.3
1.700	43.8	6.700	.5	11.700	.4	16.700	.3	21.700	.3
1.800	31.1	6.800	.5	11.800	.4	16.800	.3	21.800	.3
1.900	23.5	6.900	.5	11.900	.4	16.900	.3	21.900	.3
2.000	18.7	7.000	.5	12.000	.4	17.000	.3	22.000	.3
2.100	13.9	7.100	.5	12.100	.4	17.100	.3	22.100	.3
2.200	8.4	7.200	.5	12.200	.4	17.200	.3	22.200	.3
2.300	5.8	7.300	.5	12.300	.4	17.300	.3	22.300	.3
2.400	4.4	7.400	.5	12.400	.4	17.400	.3	22.400	.3
2.500	3.5	7.500	.5	12.500	.4	17.500	.3	22.500	.3
2.600	2.8	7.600	.5	12.600	.4	17.600	.3	22.600	.3
2.700	2.2	7.700	.5	12.700	.4	17.700	.3	22.700	.3
2.800	1.8	7.800	.5	12.800	.4	17.800	.3	22.800	.3
2.900	1.5	7.900	.5	12.900	.4	17.900	.3	22.900	.3
3.000	1.2	8.000	.5	13.000	.4	18.000	.3	23.000	.3
3.100	1.1	8.100	.5	13.100	.4	18.100	.3	23.100	.3
3.200	.9	8.200	.5	13.200	.4	18.200	.3	23.200	.3
3.300	.8	8.300	.5	13.300	.4	18.300	.3	23.300	.3
3.400	.7	8.400	.5	13.400	.4	18.400	.3	23.400	.3
3.500	.6	8.500	.5	13.500	.4	18.500	.3	23.500	.3
3.600	.6	8.600	.5	13.600	.4	18.600	.3	23.600	.3
3.700	.5	8.700	.5	13.700	.4	18.700	.3	23.700	.3
3.800	.5	8.800	.5	13.800	.4	18.800	.3	23.800	.3
3.900	.5	8.900	.5	13.900	.4	18.900	.3	23.900	.3
4.000	.5	9.000	.5	14.000	.4	19.000	.3	24.000	.3
4.100	.4	9.100	.5	14.100	.4	19.100	.3	24.100	.2
4.200	.4	9.200	.5	14.200	.4	19.200	.3	24.200	.1
4.300	.4	9.300	.4	14.300	.4	19.300	.3	24.300	.0
4.400	.4	9.400	.4	14.400	.3	19.400	.3	24.400	.0
4.500	.4	9.500	.4	14.500	.3	19.500	.3	24.500	.0
4.600	.4	9.600	.4	14.600	.3	19.600	.3	24.600	.0
4.700	.4	9.700	.4	14.700	.3	19.700	.3	24.700	.0
4.800	.4	9.800	.4	14.800	.3	19.800	.3	24.800	.0
4.900	.4	9.900	.4	14.900	.3	19.900	.3	24.900	.0

RUNOFF VOLUME = 1.62861 INCHES = 3.6899 ACRE-FEET
 PEAK DISCHARGE RATE = 75.31 CFS AT 1.500 HOURS BASIN AREA = .0425 SQ. MI.

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*S ADD BASINS TEMP F AND OFFSITE BASIN 3 TO CREATE TEMP G*****
 ADD HYD ID=21 HYD=TEMP.G ID I=20 II=11
 PRINT HYD ID=21 CODE=0

HYDROGRAPH FROM AREA TEMP.G

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.4	10.000	.4	15.000	.3	20.000	.3
.100	.0	5.100	.4	10.100	.4	15.100	.3	20.100	.3
.200	.0	5.200	.4	10.200	.4	15.200	.3	20.200	.3
.300	.0	5.300	.4	10.300	.4	15.300	.3	20.300	.3
.400	.0	5.400	.5	10.400	.4	15.400	.3	20.400	.3
.500	.0	5.500	.5	10.500	.4	15.500	.3	20.500	.3
.600	.0	5.600	.5	10.600	.4	15.600	.3	20.600	.3
.700	.0	5.700	.5	10.700	.4	15.700	.3	20.700	.3
.800	.0	5.800	.5	10.800	.4	15.800	.3	20.800	.3
.900	.0	5.900	.5	10.900	.4	15.900	.3	20.900	.3
1.000	.0	6.000	.5	11.000	.4	16.000	.3	21.000	.3
1.100	.2	6.100	.5	11.100	.4	16.100	.3	21.100	.3
1.200	2.8	6.200	.5	11.200	.4	16.200	.3	21.200	.3
1.300	13.3	6.300	.5	11.300	.4	16.300	.3	21.300	.3
1.400	47.6	6.400	.5	11.400	.4	16.400	.3	21.400	.3
1.500	76.1	6.500	.5	11.500	.4	16.500	.3	21.500	.3
1.600	65.1	6.600	.5	11.600	.4	16.600	.3	21.600	.3
1.700	44.2	6.700	.5	11.700	.4	16.700	.3	21.700	.3
1.800	31.4	6.800	.5	11.800	.4	16.800	.3	21.800	.3
1.900	23.7	6.900	.5	11.900	.4	16.900	.3	21.900	.3
2.000	18.9	7.000	.5	12.000	.4	17.000	.3	22.000	.3
2.100	13.9	7.100	.5	12.100	.4	17.100	.3	22.100	.3
2.200	8.4	7.200	.5	12.200	.4	17.200	.3	22.200	.3
2.300	5.8	7.300	.5	12.300	.4	17.300	.3	22.300	.3
2.400	4.5	7.400	.5	12.400	.4	17.400	.3	22.400	.3
2.500	3.5	7.500	.5	12.500	.4	17.500	.3	22.500	.3
2.600	2.8	7.600	.5	12.600	.4	17.600	.3	22.600	.3
2.700	2.3	7.700	.5	12.700	.4	17.700	.3	22.700	.3
2.800	1.8	7.800	.5	12.800	.4	17.800	.3	22.800	.3
2.900	1.5	7.900	.5	12.900	.4	17.900	.3	22.900	.3
3.000	1.3	8.000	.5	13.000	.4	18.000	.3	23.000	.3
3.100	1.1	8.100	.5	13.100	.4	18.100	.3	23.100	.3
3.200	.9	8.200	.5	13.200	.4	18.200	.3	23.200	.3
3.300	.8	8.300	.5	13.300	.4	18.300	.3	23.300	.3
3.400	.7	8.400	.5	13.400	.4	18.400	.3	23.400	.3
3.500	.6	8.500	.5	13.500	.4	18.500	.3	23.500	.3
3.600	.6	8.600	.5	13.600	.4	18.600	.3	23.600	.3
3.700	.5	8.700	.5	13.700	.4	18.700	.3	23.700	.3
3.800	.5	8.800	.5	13.800	.4	18.800	.3	23.800	.3
3.900	.5	8.900	.5	13.900	.4	18.900	.3	23.900	.3
4.000	.5	9.000	.5	14.000	.4	19.000	.3	24.000	.3
4.100	.4	9.100	.5	14.100	.4	19.100	.3	24.100	.2
4.200	.4	9.200	.5	14.200	.4	19.200	.3	24.200	.1
4.300	.4	9.300	.4	14.300	.4	19.300	.3	24.300	.0
4.400	.4	9.400	.4	14.400	.3	19.400	.3	24.400	.0
4.500	.4	9.500	.4	14.500	.3	19.500	.3	24.500	.0
4.600	.4	9.600	.4	14.600	.3	19.600	.3	24.600	.0
4.700	.4	9.700	.4	14.700	.3	19.700	.3	24.700	.0
4.800	.4	9.800	.4	14.800	.3	19.800	.3	24.800	.0
4.900	.4	9.900	.4	14.900	.3	19.900	.3	24.900	.0

RUNOFF VOLUME = 1.59945 INCHES = 3.7172 ACRE-FEET
 PEAK DISCHARGE RATE = 76.05 CFS AT 1.500 HOURS BASIN AREA = .0436 SQ. MI.

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*S ADD BASINS TEMP G AND OFFSITE BASIN 4 TO CREATE TEMP H*****
 ADD HYD ID=22 HYD=TEMP.H ID I=21 II=12
 PRINT HYD ID=22 CODE=0

HYDROGRAPH FROM AREA TEMP.H

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.4	10.000	.4	15.000	.3	20.000	.3
.100	.0	5.100	.4	10.100	.4	15.100	.3	20.100	.3
.200	.0	5.200	.4	10.200	.4	15.200	.3	20.200	.3
.300	.0	5.300	.4	10.300	.4	15.300	.3	20.300	.3
.400	.0	5.400	.5	10.400	.4	15.400	.3	20.400	.3
.500	.0	5.500	.5	10.500	.4	15.500	.3	20.500	.3
.600	.0	5.600	.5	10.600	.4	15.600	.3	20.600	.3
.700	.0	5.700	.5	10.700	.4	15.700	.3	20.700	.3
.800	.0	5.800	.5	10.800	.4	15.800	.3	20.800	.3
.900	.0	5.900	.5	10.900	.4	15.900	.3	20.900	.3
1.000	.0	6.000	.5	11.000	.4	16.000	.3	21.000	.3
1.100	.2	6.100	.5	11.100	.4	16.100	.3	21.100	.3
1.200	2.8	6.200	.5	11.200	.4	16.200	.3	21.200	.3
1.300	13.3	6.300	.5	11.300	.4	16.300	.3	21.300	.3
1.400	48.1	6.400	.5	11.400	.4	16.400	.3	21.400	.3
1.500	77.0	6.500	.5	11.500	.4	16.500	.3	21.500	.3
1.600	66.0	6.600	.5	11.600	.4	16.600	.3	21.600	.3
1.700	44.8	6.700	.5	11.700	.4	16.700	.3	21.700	.3
1.800	31.8	6.800	.5	11.800	.4	16.800	.3	21.800	.3
1.900	23.9	6.900	.5	11.900	.4	16.900	.3	21.900	.3
2.000	19.0	7.000	.5	12.000	.4	17.000	.3	22.000	.3
2.100	14.0	7.100	.5	12.100	.4	17.100	.3	22.100	.3
2.200	8.5	7.200	.5	12.200	.4	17.200	.3	22.200	.3
2.300	5.9	7.300	.5	12.300	.4	17.300	.3	22.300	.3
2.400	4.5	7.400	.5	12.400	.4	17.400	.3	22.400	.3
2.500	3.6	7.500	.5	12.500	.4	17.500	.3	22.500	.3
2.600	2.9	7.600	.5	12.600	.4	17.600	.3	22.600	.3
2.700	2.3	7.700	.5	12.700	.4	17.700	.3	22.700	.3
2.800	1.9	7.800	.5	12.800	.4	17.800	.3	22.800	.3
2.900	1.5	7.900	.5	12.900	.4	17.900	.3	22.900	.3
3.000	1.3	8.000	.5	13.000	.4	18.000	.3	23.000	.3
3.100	1.1	8.100	.5	13.100	.4	18.100	.3	23.100	.3
3.200	.9	8.200	.5	13.200	.4	18.200	.3	23.200	.3
3.300	.8	8.300	.5	13.300	.4	18.300	.3	23.300	.3
3.400	.7	8.400	.5	13.400	.4	18.400	.3	23.400	.3
3.500	.7	8.500	.5	13.500	.4	18.500	.3	23.500	.3
3.600	.6	8.600	.5	13.600	.4	18.600	.3	23.600	.3
3.700	.6	8.700	.5	13.700	.4	18.700	.3	23.700	.3
3.800	.5	8.800	.5	13.800	.4	18.800	.3	23.800	.3
3.900	.5	8.900	.5	13.900	.4	18.900	.3	23.900	.3
4.000	.5	9.000	.5	14.000	.4	19.000	.3	24.000	.3
4.100	.4	9.100	.5	14.100	.4	19.100	.3	24.100	.2
4.200	.4	9.200	.5	14.200	.4	19.200	.3	24.200	.1
4.300	.4	9.300	.4	14.300	.4	19.300	.3	24.300	.0
4.400	.4	9.400	.4	14.400	.3	19.400	.3	24.400	.0
4.500	.4	9.500	.4	14.500	.3	19.500	.3	24.500	.0
4.600	.4	9.600	.4	14.600	.3	19.600	.3	24.600	.0
4.700	.4	9.700	.4	14.700	.3	19.700	.3	24.700	.0
4.800	.4	9.800	.4	14.800	.3	19.800	.3	24.800	.0
4.900	.4	9.900	.4	14.900	.3	19.900	.3	24.900	.0

RUNOFF VOLUME = 1.56378 INCHES = 3.7516 ACRE-FEET
 PEAK DISCHARGE RATE = 76.98 CFS AT 1.500 HOURS BASIN AREA = .0450 SQ. MI.

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*S ADD BASINS TEMP H AND OFFSITE BASIN WELL TO CREATE TEMP I*****
 ADD HYD ID=23 HYD=TEMP.1 ID I=22 II=14
 PRINT HYD ID=23 CODE=0

HYDROGRAPH FROM AREA TEMP.1

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.4	10.000	.4	15.000	.3	20.000	.3
.100	.0	5.100	.4	10.100	.4	15.100	.3	20.100	.3
.200	.0	5.200	.4	10.200	.4	15.200	.3	20.200	.3
.300	.0	5.300	.5	10.300	.4	15.300	.3	20.300	.3
.400	.0	5.400	.5	10.400	.4	15.400	.3	20.400	.3
.500	.0	5.500	.5	10.500	.4	15.500	.3	20.500	.3
.600	.0	5.600	.5	10.600	.4	15.600	.3	20.600	.3
.700	.0	5.700	.5	10.700	.4	15.700	.3	20.700	.3
.800	.0	5.800	.5	10.800	.4	15.800	.3	20.800	.3
.900	.0	5.900	.5	10.900	.4	15.900	.3	20.900	.3
1.000	.0	6.000	.5	11.000	.4	16.000	.3	21.000	.3
1.100	.2	6.100	.5	11.100	.4	16.100	.3	21.100	.3
1.200	2.9	6.200	.5	11.200	.4	16.200	.3	21.200	.3
1.300	13.5	6.300	.5	11.300	.4	16.300	.3	21.300	.3
1.400	49.4	6.400	.5	11.400	.4	16.400	.3	21.400	.3
1.500	79.2	6.500	.5	11.500	.4	16.500	.3	21.500	.3
1.600	68.0	6.600	.5	11.600	.4	16.600	.3	21.600	.3
1.700	46.2	6.700	.5	11.700	.4	16.700	.3	21.700	.3
1.800	32.7	6.800	.5	11.800	.4	16.800	.3	21.800	.3
1.900	24.5	6.900	.5	11.900	.4	16.900	.3	21.900	.3
2.000	19.4	7.000	.5	12.000	.4	17.000	.3	22.000	.3
2.100	14.3	7.100	.5	12.100	.4	17.100	.3	22.100	.3
2.200	8.7	7.200	.5	12.200	.4	17.200	.3	22.200	.3
2.300	6.1	7.300	.5	12.300	.4	17.300	.3	22.300	.3
2.400	4.6	7.400	.5	12.400	.4	17.400	.3	22.400	.3
2.500	3.7	7.500	.5	12.500	.4	17.500	.3	22.500	.3
2.600	2.9	7.600	.5	12.600	.4	17.600	.3	22.600	.3
2.700	2.4	7.700	.5	12.700	.4	17.700	.3	22.700	.3
2.800	1.9	7.800	.5	12.800	.4	17.800	.3	22.800	.3
2.900	1.6	7.900	.5	12.900	.4	17.900	.3	22.900	.3
3.000	1.3	8.000	.5	13.000	.4	18.000	.3	23.000	.3
3.100	1.1	8.100	.5	13.100	.4	18.100	.3	23.100	.3
3.200	.9	8.200	.5	13.200	.4	18.200	.3	23.200	.3
3.300	.8	8.300	.5	13.300	.4	18.300	.3	23.300	.3
3.400	.7	8.400	.5	13.400	.4	18.400	.3	23.400	.3
3.500	.7	8.500	.5	13.500	.4	18.500	.3	23.500	.3
3.600	.6	8.600	.5	13.600	.4	18.600	.3	23.600	.3
3.700	.6	8.700	.5	13.700	.4	18.700	.3	23.700	.3
3.800	.5	8.800	.5	13.800	.4	18.800	.3	23.800	.3
3.900	.5	8.900	.5	13.900	.4	18.900	.3	23.900	.3
4.000	.5	9.000	.5	14.000	.4	19.000	.3	24.000	.3
4.100	.4	9.100	.5	14.100	.4	19.100	.3	24.100	.2
4.200	.4	9.200	.5	14.200	.4	19.200	.3	24.200	.1
4.300	.4	9.300	.5	14.300	.4	19.300	.3	24.300	.0
4.400	.4	9.400	.5	14.400	.4	19.400	.3	24.400	.0
4.500	.4	9.500	.5	14.500	.4	19.500	.3	24.500	.0
4.600	.4	9.600	.4	14.600	.4	19.600	.3	24.600	.0
4.700	.4	9.700	.4	14.700	.4	19.700	.3	24.700	.0
4.800	.4	9.800	.4	14.800	.3	19.800	.3	24.800	.0
4.900	.4	9.900	.4	14.900	.3	19.900	.3	24.900	.0

RUNOFF VOLUME = 1.54902 INCHES = 3.8453 ACRE-FEET
 PEAK DISCHARGE RATE = 79.24 CFS AT 1.500 HOURS BASIN AREA = .0465 SQ. MI.

*

*S ADD BASINS TEMP I AND OFFSITE BASIN 5 TO CREATE TEMP J*****
 ADD HYD ID=24 HYD=TEMP.J ID I=23 II=13
 PRINT HYD ID=24 CODE=0

HYDROGRAPH FROM AREA TEMP.J

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.4	10.000	.4	15.000	.3	20.000	.3
.100	.0	5.100	.4	10.100	.4	15.100	.3	20.100	.3
.200	.0	5.200	.4	10.200	.4	15.200	.3	20.200	.3
.300	.0	5.300	.5	10.300	.4	15.300	.3	20.300	.3
.400	.0	5.400	.5	10.400	.4	15.400	.3	20.400	.3
.500	.0	5.500	.5	10.500	.4	15.500	.3	20.500	.3
.600	.0	5.600	.5	10.600	.4	15.600	.3	20.600	.3
.700	.0	5.700	.5	10.700	.4	15.700	.3	20.700	.3
.800	.0	5.800	.5	10.800	.4	15.800	.3	20.800	.3
.900	.0	5.900	.5	10.900	.4	15.900	.3	20.900	.3
1.000	.0	6.000	.5	11.000	.4	16.000	.3	21.000	.3
1.100	.2	6.100	.5	11.100	.4	16.100	.3	21.100	.3
1.200	2.9	6.200	.5	11.200	.4	16.200	.3	21.200	.3
1.300	13.5	6.300	.5	11.300	.4	16.300	.3	21.300	.3
1.400	50.4	6.400	.5	11.400	.4	16.400	.3	21.400	.3
1.500	81.2	6.500	.5	11.500	.4	16.500	.3	21.500	.3
1.600	69.8	6.600	.5	11.600	.4	16.600	.3	21.600	.3
1.700	47.4	6.700	.5	11.700	.4	16.700	.3	21.700	.3
1.800	33.4	6.800	.5	11.800	.4	16.800	.3	21.800	.3
1.900	25.0	6.900	.5	11.900	.4	16.900	.3	21.900	.3
2.000	19.7	7.000	.5	12.000	.4	17.000	.3	22.000	.3
2.100	14.6	7.100	.5	12.100	.4	17.100	.3	22.100	.3
2.200	8.9	7.200	.5	12.200	.4	17.200	.3	22.200	.3
2.300	6.2	7.300	.5	12.300	.4	17.300	.3	22.300	.3
2.400	4.8	7.400	.5	12.400	.4	17.400	.3	22.400	.3
2.500	3.8	7.500	.5	12.500	.4	17.500	.3	22.500	.3
2.600	3.0	7.600	.5	12.600	.4	17.600	.3	22.600	.3
2.700	2.4	7.700	.5	12.700	.4	17.700	.3	22.700	.3
2.800	2.0	7.800	.5	12.800	.4	17.800	.3	22.800	.3
2.900	1.6	7.900	.5	12.900	.4	17.900	.3	22.900	.3
3.000	1.4	8.000	.5	13.000	.4	18.000	.3	23.000	.3
3.100	1.1	8.100	.5	13.100	.4	18.100	.3	23.100	.3
3.200	1.0	8.200	.5	13.200	.4	18.200	.3	23.200	.3
3.300	.9	8.300	.5	13.300	.4	18.300	.3	23.300	.3
3.400	.8	8.400	.5	13.400	.4	18.400	.3	23.400	.3
3.500	.7	8.500	.5	13.500	.4	18.500	.3	23.500	.3
3.600	.6	8.600	.5	13.600	.4	18.600	.3	23.600	.3
3.700	.6	8.700	.5	13.700	.4	18.700	.3	23.700	.3
3.800	.5	8.800	.5	13.800	.4	18.800	.3	23.800	.3
3.900	.5	8.900	.5	13.900	.4	18.900	.3	23.900	.3
4.000	.5	9.000	.5	14.000	.4	19.000	.3	24.000	.3
4.100	.5	9.100	.5	14.100	.4	19.100	.3	24.100	.2
4.200	.4	9.200	.5	14.200	.4	19.200	.3	24.200	.1
4.300	.4	9.300	.5	14.300	.4	19.300	.3	24.300	.0
4.400	.4	9.400	.5	14.400	.4	19.400	.3	24.400	.0
4.500	.4	9.500	.5	14.500	.4	19.500	.3	24.500	.0
4.600	.4	9.600	.4	14.600	.4	19.600	.3	24.600	.0
4.700	.4	9.700	.4	14.700	.4	19.700	.3	24.700	.0
4.800	.4	9.800	.4	14.800	.3	19.800	.3	24.800	.0
4.900	.4	9.900	.4	14.900	.3	19.900	.3	24.900	.0

RUNOFF VOLUME = 1.47507 INCHES = 3.9198 ACRE-FEET
 PEAK DISCHARGE RATE = 81.23 CFS AT 1.500 HOURS BASIN AREA = .0498 SQ. MI.

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*S TEMP BASIN J REPLACES BASIN E3 AND E5 FROM THE DMP AHYMO FILE*****

COMPUTE NM HYD ID=25 HYD NO=OFFSITE2 DA=.0805 SQ MI
%A=100 %B=0.0 %C=0.0 %D=0.0
TP=-.66 HR RAIN=-1

K = .803590HR TP = .660000HR K/TP RATIO = 1.217560 SHAPE CONSTANT, N = 2.922175
UNIT PEAK = 33.592 CFS UNIT VOLUME = .9995 B = 275.41 P60 = 1.8400
AREA = .080500 SQ MI IA = .65000 INCHES INF = 1.67000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=25 CODE=10

HYDROGRAPH FROM AREA OFFSITE2

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	1.5	8.000	.3	12.000	.1	16.000	.0
1.000	.0	5.000	.9	9.000	.2	13.000	.0	17.000	.0
2.000	13.9	6.000	.6	10.000	.1	14.000	.0	18.000	.0
3.000	5.2	7.000	.4	11.000	.1	15.000	.0		

RUNOFF VOLUME = .41534 INCHES = 1.7832 ACRE-FEET
PEAK DISCHARGE RATE = 13.87 CFS AT 2.000 HOURS BASIN AREA = .0805 SQ. MI.

*
*
*ROUTE RESERVOIR ID=26 HYD=OFFPOND2 INFLOW ID=25 CODE=5
* OUTFLOW STORAGE DEPTH
* 0 0 0
* 2.16 0.047 1
* 3.06 0.222 2
* 3.75 0.466 3
* 4.33 0.751 4
* 4.84 1.081 5
*

*PRINT HYD ID=26 CODE=10

*
*
*COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.011
* DIA=2.0 N=0.013
*ROUTE MCUNGE ID=27 HYD=RTE.OFFPOND2 INFLOW ID=26
* DT=0.0 L=900 NS=0 SLOPE=0.011
* MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*

*PRINT HYD ID=27 CODE=0

COMPUTE NM HYD ID=28 HYD NO=BASIN.B DA=.01998 SQ MI
%A=0 %B=34.0 %C=34.0 %D=32.0
TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 25.299 CFS UNIT VOLUME = 1.030 B = 526.28 P60 = 1.8400
AREA = .006394 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE CONSTANT, N = 3.989065
UNIT PEAK = 36.207 CFS UNIT VOLUME = 1.007 B = 354.44 P60 = 1.8400
AREA = .013586 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=28 CODE=10

HYDROGRAPH FROM AREA BASIN.B

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.1	10.000	.1	15.000	.1	20.000	.1
1.000	.0	6.000	.1	11.000	.1	16.000	.1	21.000	.1
2.000	5.8	7.000	.2	12.000	.1	17.000	.1	22.000	.1
3.000	.3	8.000	.1	13.000	.1	18.000	.1	23.000	.1
4.000	.1	9.000	.1	14.000	.1	19.000	.1	24.000	.1

RUNOFF VOLUME = 1.32000 INCHES = 1.4066 ACRE-FEET
 PEAK DISCHARGE RATE = 34.80 CFS AT 1.500 HOURS BASIN AREA = .0200 SQ. MI.

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*

ROUTE RESERVOIR ID=29 HYD=POND.B INFLOW ID=28 CODE=5
 OUTFLOW STORAGE DEPTH
 0 0 5515
 1.71 0.06 5516
 2.42 0.24 5517
 2.96 0.55 5518
 3.42 0.99 5519
 3.82 1.67 5520

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5515.00	.000	.00
.50	.00	5515.00	.000	.00
1.00	.00	5515.00	.000	.00
1.50	34.80	5517.54	.407	2.71
2.00	5.83	5518.84	.918	3.34
2.50	.93	5518.75	.880	3.31
3.00	.31	5518.50	.769	3.19
3.50	.17	5518.23	.649	3.06
4.00	.13	5517.94	.531	2.93
4.50	.12	5517.58	.419	2.73
5.00	.13	5517.24	.315	2.55
5.50	.14	5516.88	.219	2.34
6.00	.15	5516.42	.136	2.01
6.50	.16	5516.03	.065	1.73
7.00	.15	5515.40	.024	.68
7.50	.15	5515.18	.011	.31
8.00	.14	5515.11	.007	.20
8.50	.14	5515.09	.006	.16
9.00	.14	5515.08	.005	.14
9.50	.13	5515.08	.005	.14
10.00	.13	5515.08	.005	.13
10.50	.12	5515.07	.004	.13
11.00	.12	5515.07	.004	.12
11.50	.12	5515.07	.004	.12
12.00	.12	5515.07	.004	.12
12.50	.11	5515.07	.004	.11
13.00	.11	5515.07	.004	.11
13.50	.11	5515.06	.004	.11
14.00	.10	5515.06	.004	.11
14.50	.10	5515.06	.004	.10
15.00	.10	5515.06	.004	.10
15.50	.10	5515.06	.004	.10
16.00	.10	5515.06	.003	.10
16.50	.09	5515.06	.003	.10
17.00	.09	5515.06	.003	.09
17.50	.09	5515.05	.003	.09
18.00	.09	5515.05	.003	.09
18.50	.09	5515.05	.003	.09
19.00	.09	5515.05	.003	.09
19.50	.08	5515.05	.003	.09
20.00	.08	5515.05	.003	.08
20.50	.08	5515.05	.003	.08
21.00	.08	5515.05	.003	.08
21.50	.08	5515.05	.003	.08
22.00	.08	5515.05	.003	.08
22.50	.08	5515.05	.003	.08
23.00	.07	5515.04	.003	.08
23.50	.07	5515.04	.003	.08
24.00	.07	5515.04	.003	.07

24.50 .00 5515.02 .001 .03
 25.00 .00 5515.01 .000 .01
 25.50 .00 5515.00 .000 .00
 PEAK DISCHARGE = 3.357 CFS - PEAK OCCURS AT HOUR 2.10
 MAXIMUM WATER SURFACE ELEVATION = 5518.863
 MAXIMUM STORAGE = .9296 AC-FT INCREMENTAL TIME= .100000HRS

*
 *

PRINT HYD ID=29 CODE=10

HYDROGRAPH FROM AREA POND.B

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	6.000	2.0	12.000	.1	18.000	.1	24.000	.1
1.000	.0	7.000	.7	13.000	.1	19.000	.1	25.000	.0
2.000	3.3	8.000	.2	14.000	.1	20.000	.1	26.000	.0
3.000	3.2	9.000	.1	15.000	.1	21.000	.1		
4.000	2.9	10.000	.1	16.000	.1	22.000	.1		
5.000	2.6	11.000	.1	17.000	.1	23.000	.1		

RUNOFF VOLUME = 1.31999 INCHES = 1.4066 ACRE-FEET
 PEAK DISCHARGE RATE = 3.36 CFS AT 2.100 HOURS BASIN AREA = .0200 SQ. MI.

*
 *

COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.03
 DIA=2.0 N=0.013

RATING CURVE PIPE SECTION 1.0

WATER SURFACE ELEV	FLOW AREA SQ FT	FLOW RATE CFS	MAX WIDTH FT
.00	.00	.00	.00
.10	.06	.21	.89
.21	.17	.89	1.22
.31	.31	2.07	1.45
.42	.47	3.73	1.62
.52	.65	5.82	1.76
.63	.84	8.31	1.85
.73	1.04	11.13	1.93
.83	1.24	14.24	1.97
.94	1.45	17.55	2.00
1.04	1.66	21.00	2.00
1.15	1.86	24.52	2.00
1.25	2.07	28.02	2.00
1.35	2.27	31.40	2.00
1.46	2.46	34.57	2.00
1.56	2.63	37.41	2.00
1.67	2.80	39.77	2.00
1.77	2.94	41.46	2.00
1.88	3.06	42.15	2.00
2.00	3.14	42.15	2.00

ROUTE MCUNGE ID=30 HYD=RTE.PONDB INFLOW ID=29
 DT=0.0 L=1180 NS=0 SLOPE=0.03
 MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 261
 DT= .100000
 WIDTH MED= 1.38
 TABLE PTS= 19
 QMED= 1.68 CKMED= 8.4416
 NREACH= 1 DX= 1180.00

DEPTH (FT)	AREA (SQ FT)	Q (CFS)	TRAVEL TIME(HR)	WIDTH (FT)	ck (FPS)	VEL (FPS)	C	D	C1	C2	C3	Q-M (CFS)	C1-M	C2-M	C3-M
.00	.0	.0	.135	.0	3.28	1.55	1.000	.000	1.000	.000	.000	.0	1.000	.000	.000
.10	.1	.2	.100	.9	5.42	3.29	1.652	.001	.999	.246	-.245	.0	.999	.065	-.065
.21	.2	.9	.064	1.2	7.47	5.14	2.280	.003	.998	.391	-.389	.5	.999	.309	-.307
.31	.3	2.1	.050	1.5	9.46	6.61	2.887	.004	.998	.486	-.484	1.4	.998	.442	-.440
.42	.5	3.7	.042	1.6	11.14	7.86	3.398	.006	.997	.546	-.543	2.9	.998	.519	-.516
.52	.7	5.8	.037	1.8	12.57	8.95	3.834	.007	.997	.587	-.584	4.7	.997	.568	-.565
.63	.8	8.3	.033	1.9	13.78	9.90	4.204	.009	.996	.616	-.613	7.0	.997	.603	-.600
.73	1.0	11.1	.031	1.9	14.80	10.74	4.515	.011	.996	.638	-.634	9.7	.996	.629	-.625
.83	1.2	14.2	.029	2.0	15.64	11.48	4.771	.013	.995	.654	-.650	12.7	.996	.647	-.643
.94	1.4	17.5	.027	2.0	16.29	12.13	4.971	.015	.995	.666	-.661	15.9	.995	.661	-.656
1.04	1.7	21.0	.026	2.0	16.75	12.69	5.110	.018	.994	.674	-.668	19.3	.995	.671	-.665
1.15	1.9	24.5	.025	2.0	16.86	13.16	5.143	.021	.993	.676	-.669	22.7	.994	.676	-.670
1.25	2.1	28.0	.024	2.0	16.54	13.56	5.047	.024	.992	.671	-.663	26.3	.993	.674	-.667
1.35	2.3	31.4	.024	2.0	15.76	13.86	4.808	.028	.990	.657	-.648	29.7	.991	.666	-.657
1.46	2.5	34.6	.023	2.0	14.44	14.08	4.407	.034	.988	.632	-.620	33.0	.989	.647	-.636

1.56	2.6	37.4	.023	2.0	12.50	14.20	3.813	.042	.983	.588	-.571	36.0	.986	.615	-.600
1.67	2.8	39.8	.023	2.0	9.73	14.21	2.969	.058	.971	.503	-.475	38.6	.979	.556	-.534
1.77	2.9	41.5	.023	2.0	5.70	14.09	1.739	.103	.928	.296	-.224	40.6	.960	.435	-.395
1.88	3.1	42.1	.024	2.0	3.25	13.77	.991	.183	.831	.080	.088	41.8	.838	.088	.074

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 3 OCCURRED 1 TIMES. AVERAGE NUMBER ITERATIONS = 1.1036
 * Equations solved using the Ponce correction to C2

PRINT HYD ID=30 CODE=0

HYDROGRAPH FROM AREA RTE.PONDB

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.300	2.5	10.600	.1	15.900	.1	21.200	.1
.100	.0	5.400	2.4	10.700	.1	16.000	.1	21.300	.1
.200	.0	5.500	2.4	10.800	.1	16.100	.1	21.400	.1
.300	.0	5.600	2.3	10.900	.1	16.200	.1	21.500	.1
.400	.0	5.700	2.2	11.000	.1	16.300	.1	21.600	.1
.500	.0	5.800	2.2	11.100	.1	16.400	.1	21.700	.1
.600	.0	5.900	2.1	11.200	.1	16.500	.1	21.800	.1
.700	.0	6.000	2.0	11.300	.1	16.600	.1	21.900	.1
.800	.0	6.100	2.0	11.400	.1	16.700	.1	22.000	.1
.900	.0	6.200	1.9	11.500	.1	16.800	.1	22.100	.1
1.000	.0	6.300	1.9	11.600	.1	16.900	.1	22.200	.1
1.100	.0	6.400	1.8	11.700	.1	17.000	.1	22.300	.1
1.200	.0	6.500	1.7	11.800	.1	17.100	.1	22.400	.1
1.300	.5	6.600	1.6	11.900	.1	17.200	.1	22.500	.1
1.400	1.7	6.700	1.3	12.000	.1	17.300	.1	22.600	.1
1.500	2.6	6.800	1.1	12.100	.1	17.400	.1	22.700	.1
1.600	2.9	6.900	.9	12.200	.1	17.500	.1	22.800	.1
1.700	3.2	7.000	.7	12.300	.1	17.600	.1	22.900	.1
1.800	3.2	7.100	.6	12.400	.1	17.700	.1	23.000	.1
1.900	3.3	7.200	.5	12.500	.1	17.800	.1	23.100	.1
2.000	3.3	7.300	.4	12.600	.1	17.900	.1	23.200	.1
2.100	3.4	7.400	.4	12.700	.1	18.000	.1	23.300	.1
2.200	3.4	7.500	.3	12.800	.1	18.100	.1	23.400	.1
2.300	3.3	7.600	.3	12.900	.1	18.200	.1	23.500	.1
2.400	3.3	7.700	.3	13.000	.1	18.300	.1	23.600	.1
2.500	3.3	7.800	.2	13.100	.1	18.400	.1	23.700	.1
2.600	3.3	7.900	.2	13.200	.1	18.500	.1	23.800	.1
2.700	3.3	8.000	.2	13.300	.1	18.600	.1	23.900	.1
2.800	3.2	8.100	.2	13.400	.1	18.700	.1	24.000	.1
2.900	3.2	8.200	.2	13.500	.1	18.800	.1	24.100	.1
3.000	3.2	8.300	.2	13.600	.1	18.900	.1	24.200	.1
3.100	3.2	8.400	.2	13.700	.1	19.000	.1	24.300	.1
3.200	3.1	8.500	.2	13.800	.1	19.100	.1	24.400	.0
3.300	3.1	8.600	.2	13.900	.1	19.200	.1	24.500	.0
3.400	3.1	8.700	.2	14.000	.1	19.300	.1	24.600	.0
3.500	3.1	8.800	.1	14.100	.1	19.400	.1	24.700	.0
3.600	3.0	8.900	.1	14.200	.1	19.500	.1	24.800	.0
3.700	3.0	9.000	.1	14.300	.1	19.600	.1	24.900	.0
3.800	3.0	9.100	.1	14.400	.1	19.700	.1	25.000	.0
3.900	3.0	9.200	.1	14.500	.1	19.800	.1	25.100	.0
4.000	2.9	9.300	.1	14.600	.1	19.900	.1	25.200	.0
4.100	2.9	9.400	.1	14.700	.1	20.000	.1	25.300	.0
4.200	2.9	9.500	.1	14.800	.1	20.100	.1	25.400	.0
4.300	2.8	9.600	.1	14.900	.1	20.200	.1	25.500	.0
4.400	2.8	9.700	.1	15.000	.1	20.300	.1	25.600	.0
4.500	2.7	9.800	.1	15.100	.1	20.400	.1	25.700	.0
4.600	2.7	9.900	.1	15.200	.1	20.500	.1	25.800	.0
4.700	2.7	10.000	.1	15.300	.1	20.600	.1	25.900	.0
4.800	2.6	10.100	.1	15.400	.1	20.700	.1	26.000	.0
4.900	2.6	10.200	.1	15.500	.1	20.800	.1	26.100	.0
5.000	2.6	10.300	.1	15.600	.1	20.900	.1		
5.100	2.5	10.400	.1	15.700	.1	21.000	.1		
5.200	2.5	10.500	.1	15.800	.1	21.100	.1		

RUNOFF VOLUME = 1.32010 INCHES = 1.4067 ACRE-FEET
 PEAK DISCHARGE RATE = 3.36 CFS AT 2.100 HOURS BASIN AREA = .0200 SQ. MI.

*
 *
 ADD HYD ID=31 HYD=OFF.B ID I=30 II=25
 PRINT HYD ID=31 CODE=10

HYDROGRAPH FROM AREA OFF.B

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------

.000	.0	6.000	2.6	12.000	.2	18.000	.1	24.000	.1
1.000	.0	7.000	1.1	13.000	.1	19.000	.1	25.000	.0
2.000	17.2	8.000	.5	14.000	.1	20.000	.1	26.000	.0
3.000	8.4	9.000	.3	15.000	.1	21.000	.1		
4.000	4.4	10.000	.2	16.000	.1	22.000	.1		
5.000	3.5	11.000	.2	17.000	.1	23.000	.1		

RUNOFF VOLUME = .59523 INCHES = 3.1898 ACRE-FEET
 PEAK DISCHARGE RATE = 17.20 CFS AT 2.000 HOURS BASIN AREA = .1005 SQ. MI.

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COMPUTE NM HYD ID=32 HYD NO=BASINE1.1 DA=.02753 SQ MI
 %A=0.0 %B=33.0 %C=33.0 %D=34.0
 TP=-0.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = 37.038 CFS UNIT VOLUME = 1.030 B = 526.28 P60 = 1.8400
 AREA = .009360 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE CONSTANT, N = 3.989065
 UNIT PEAK = 48.422 CFS UNIT VOLUME = 1.007 B = 354.44 P60 = 1.8400
 AREA = .018170 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=32 CODE=10

HYDROGRAPH FROM AREA BASINE1.1

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.2	10.000	.2	15.000	.1	20.000	.1
1.000	.0	6.000	.2	11.000	.2	16.000	.1	21.000	.1
2.000	8.3	7.000	.2	12.000	.2	17.000	.1	22.000	.1
3.000	.4	8.000	.2	13.000	.2	18.000	.1	23.000	.1
4.000	.2	9.000	.2	14.000	.2	19.000	.1	24.000	.1

RUNOFF VOLUME = 1.35259 INCHES = 1.9860 ACRE-FEET
 PEAK DISCHARGE RATE = 48.45 CFS AT 1.500 HOURS BASIN AREA = .0275 SQ. MI.

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ADD HYD ID=33 HYD=OFF.E11 ID I=32 II=31
 PRINT HYD ID=33 CODE=10

HYDROGRAPH FROM AREA OFF.E11

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	6.000	2.9	12.000	.3	18.000	.2	24.000	.2
1.000	.0	7.000	1.4	13.000	.3	19.000	.2	25.000	.0
2.000	25.5	8.000	.7	14.000	.3	20.000	.2	26.000	.0
3.000	8.9	9.000	.5	15.000	.3	21.000	.2		
4.000	4.6	10.000	.4	16.000	.2	22.000	.2		
5.000	3.7	11.000	.4	17.000	.2	23.000	.2		

RUNOFF VOLUME = .75811 INCHES = 5.1757 ACRE-FEET
 PEAK DISCHARGE RATE = 54.83 CFS AT 1.500 HOURS BASIN AREA = .1280 SQ. MI.

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COMPUTE NM HYD ID=34 HYD NO=BASINE1.2 DA=.00588 SQ MI
 %A=0.0 %B=33.0 %C=33.0 %D=34.0
 TP=-0.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = 7.9108 CFS UNIT VOLUME = 1.029 B = 526.28 P60 = 1.8400
 AREA = .001999 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE CONSTANT, N = 3.989065
 UNIT PEAK = 10.342 CFS UNIT VOLUME = 1.006 B = 354.44 P60 = 1.8400

AREA = .003881 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=34 CODE=10

HYDROGRAPH FROM AREA BASINE1.2

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.0	10.000	.0	15.000	.0	20.000	.0
1.000	.0	6.000	.0	11.000	.0	16.000	.0	21.000	.0
2.000	1.8	7.000	.0	12.000	.0	17.000	.0	22.000	.0
3.000	.1	8.000	.0	13.000	.0	18.000	.0	23.000	.0
4.000	.0	9.000	.0	14.000	.0	19.000	.0	24.000	.0

RUNOFF VOLUME = 1.35259 INCHES = .4242 ACRE-FEET
 PEAK DISCHARGE RATE = 10.36 CFS AT 1.500 HOURS BASIN AREA = .0059 SQ. MI.

*
 *
 COMPUTE NM HYD ID=35 HYD NO=BASIN.E2 DA=.01348 SQ MI
 %A=0.0 %B=18.0 %C=18.0 %D=64.0
 TP=-.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = 34.137 CFS UNIT VOLUME = 1.030 B = 526.28 P60 = 1.8400
 AREA = .008627 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE CONSTANT, N = 3.989065
 UNIT PEAK = 12.933 CFS UNIT VOLUME = 1.006 B = 354.44 P60 = 1.8400
 AREA = .004853 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=35 CODE=10

HYDROGRAPH FROM AREA BASIN.E2

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.2	10.000	.2	15.000	.1	20.000	.1
1.000	.0	6.000	.2	11.000	.2	16.000	.1	21.000	.1
2.000	6.1	7.000	.2	12.000	.2	17.000	.1	22.000	.1
3.000	.3	8.000	.2	13.000	.1	18.000	.1	23.000	.1
4.000	.2	9.000	.2	14.000	.1	19.000	.1	24.000	.1

RUNOFF VOLUME = 1.84145 INCHES = 1.3239 ACRE-FEET
 PEAK DISCHARGE RATE = 27.42 CFS AT 1.500 HOURS BASIN AREA = .0135 SQ. MI.

*
 *
 ADD HYD ID=36 HYD=E2.E12 ID I=34 II=35
 PRINT HYD ID=36 CODE=10

HYDROGRAPH FROM AREA E2.E12

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.2	10.000	.2	15.000	.2	20.000	.1
1.000	.0	6.000	.2	11.000	.2	16.000	.2	21.000	.1
2.000	7.9	7.000	.3	12.000	.2	17.000	.2	22.000	.1
3.000	.4	8.000	.2	13.000	.2	18.000	.1	23.000	.1
4.000	.2	9.000	.2	14.000	.2	19.000	.1	24.000	.1

RUNOFF VOLUME = 1.69294 INCHES = 1.7480 ACRE-FEET
 PEAK DISCHARGE RATE = 37.77 CFS AT 1.500 HOURS BASIN AREA = .0194 SQ. MI.

*
 *
 COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.002
 DIA=3.0 N=0.013

RATING CURVE PIPE SECTION 1.0
 WATER FLOW FLOW MAX

SURFACE ELEV	AREA SQ FT	RATE CFS	WIDTH FT
.00	.00	.00	.00
.16	.14	.16	1.33
.31	.39	.68	1.83
.47	.71	1.58	2.18
.63	1.07	2.84	2.44
.78	1.46	4.43	2.63
.94	1.89	6.33	2.78
1.09	2.33	8.48	2.89
1.25	2.79	10.84	2.96
1.41	3.26	13.36	2.99
1.56	3.72	15.99	3.00
1.72	4.19	18.67	3.00
1.88	4.65	21.33	3.00
2.03	5.10	23.90	3.00
2.19	5.53	26.32	3.00
2.35	5.93	28.48	3.00
2.50	6.30	30.27	3.00
2.66	6.62	31.56	3.00
2.81	6.89	32.09	3.00
3.00	7.07	32.09	3.00

ROUTE MCUNGE ID=37 HYD=RTE.E12 INFLOW ID=36
 DT=0.0 L=800 NS=0 SLOPE=0.01
 MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0

INFLOW END= 249 TABLE PTS= 19
 DT= .100000 QMED= 18.89 CKMED= 5.7936
 WIDTH MED= 3.00 NREACH= 1 DX= 800.00

DEPTH (FT)	AREA (SQ FT)	Q (CFS)	TRAVEL TIME(HR)	WIDTH (FT)	ck (FPS)	VEL (FPS)	C	D	C1	C2	C3	Q-M (CFS)	C1-M	C2-M	C3-M
.00	.0	.0	.271	.0	2.22	.53	1.000	.000	1.000	.000	.000	.0	1.000	.000	.000
.16	.1	.2	.200	1.3	2.21	1.11	.993	.007	.993	.000	.007	.0	.999	.000	.001
.31	.4	.7	.128	1.8	2.53	1.74	1.138	.018	.983	.072	-.055	.4	.989	.030	-.019
.47	.7	1.6	.099	2.2	3.20	2.24	1.441	.028	.977	.190	-.167	1.1	.979	.135	-.115
.63	1.1	2.8	.084	2.4	3.77	2.66	1.696	.039	.972	.269	-.240	2.2	.974	.232	-.206
.78	1.5	4.4	.073	2.6	4.25	3.03	1.913	.049	.967	.325	-.292	3.6	.969	.299	-.268
.94	1.9	6.3	.066	2.8	4.66	3.35	2.098	.061	.961	.367	-.328	5.4	.964	.348	-.312
1.09	2.3	8.5	.061	2.9	5.01	3.63	2.253	.073	.956	.399	-.355	7.4	.959	.385	-.343
1.25	2.8	10.8	.057	3.0	5.29	3.88	2.381	.087	.950	.423	-.373	9.6	.953	.413	-.366
1.41	3.3	13.4	.054	3.0	5.51	4.10	2.481	.101	.944	.442	-.385	12.1	.947	.434	-.381
1.56	3.7	16.0	.052	3.0	5.67	4.29	2.550	.118	.936	.455	-.391	14.7	.940	.450	-.390
1.72	4.2	18.7	.050	3.0	5.70	4.45	2.567	.136	.926	.460	-.386	17.3	.932	.459	-.390
1.88	4.7	21.3	.048	3.0	5.60	4.59	2.519	.159	.914	.456	-.370	20.0	.921	.460	-.380
2.03	5.1	23.9	.047	3.0	5.33	4.69	2.399	.187	.896	.442	-.338	22.6	.906	.451	-.357
2.19	5.5	26.3	.047	3.0	4.89	4.76	2.199	.224	.869	.416	-.285	25.1	.884	.432	-.316
2.35	5.9	28.5	.046	3.0	4.23	4.80	1.903	.281	.824	.372	-.195	27.4	.851	.398	-.248
2.50	6.3	30.3	.046	3.0	3.29	4.81	1.482	.383	.733	.302	-.034	29.4	.790	.343	-.133
2.66	6.6	31.6	.047	3.0	1.93	4.77	.868	.682	.465	.216	.319	30.9	.652	.260	.088
2.81	6.9	32.1	.048	3.0	1.10	4.66	.495	1.216	.103	.262	.635	31.8	.123	.255	.623

MAXIMUM NO. ITERATIONS FOR SOLUTION (KKMAX) = 11 OCCURRED 1 TIMES. AVERAGE NUMBER ITERATIONS = 1.0628
 Equations solved using the Ponce correction to C2

PRINT HYD ID=37 CODE=0

HYDROGRAPH FROM AREA RTE.E12

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.2	10.000	.2	15.000	.2	20.000	.1
.100	.0	5.100	.2	10.100	.2	15.100	.2	20.100	.1
.200	.0	5.200	.2	10.200	.2	15.200	.2	20.200	.1
.300	.0	5.300	.2	10.300	.2	15.300	.2	20.300	.1
.400	.0	5.400	.2	10.400	.2	15.400	.2	20.400	.1
.500	.0	5.500	.2	10.500	.2	15.500	.2	20.500	.1
.600	.0	5.600	.2	10.600	.2	15.600	.2	20.600	.1
.700	.0	5.700	.2	10.700	.2	15.700	.2	20.700	.1
.800	.0	5.800	.2	10.800	.2	15.800	.2	20.800	.1
.900	.0	5.900	.2	10.900	.2	15.900	.2	20.900	.1
1.000	.0	6.000	.2	11.000	.2	16.000	.2	21.000	.1
1.100	.0	6.100	.2	11.100	.2	16.100	.2	21.100	.1
1.200	.4	6.200	.3	11.200	.2	16.200	.2	21.200	.1
1.300	6.0	6.300	.3	11.300	.2	16.300	.2	21.300	.1
1.400	22.3	6.400	.3	11.400	.2	16.400	.2	21.400	.1
1.500	31.2	6.500	.3	11.500	.2	16.500	.2	21.500	.1
1.600	31.3	6.600	.3	11.600	.2	16.600	.2	21.600	.1
1.700	20.5	6.700	.3	11.700	.2	16.700	.2	21.700	.1
1.800	13.8	6.800	.3	11.800	.2	16.800	.2	21.800	.1
1.900	10.9	6.900	.3	11.900	.2	16.900	.2	21.900	.1
2.000	8.6	7.000	.3	12.000	.2	17.000	.2	22.000	.1

2.100	6.5	7.100	.3	12.100	.2	17.100	.2	22.100	.1
2.200	3.7	7.200	.3	12.200	.2	17.200	.2	22.200	.1
2.300	2.4	7.300	.3	12.300	.2	17.300	.2	22.300	.1
2.400	1.8	7.400	.2	12.400	.2	17.400	.2	22.400	.1
2.500	1.4	7.500	.2	12.500	.2	17.500	.2	22.500	.1
2.600	1.1	7.600	.2	12.600	.2	17.600	.2	22.600	.1
2.700	.9	7.700	.2	12.700	.2	17.700	.2	22.700	.1
2.800	.7	7.800	.2	12.800	.2	17.800	.2	22.800	.1
2.900	.6	7.900	.2	12.900	.2	17.900	.2	22.900	.1
3.000	.5	8.000	.2	13.000	.2	18.000	.1	23.000	.1
3.100	.4	8.100	.2	13.100	.2	18.100	.1	23.100	.1
3.200	.4	8.200	.2	13.200	.2	18.200	.2	23.200	.1
3.300	.3	8.300	.2	13.300	.2	18.300	.1	23.300	.1
3.400	.3	8.400	.2	13.400	.2	18.400	.1	23.400	.1
3.500	.3	8.500	.2	13.500	.2	18.500	.1	23.500	.1
3.600	.3	8.600	.2	13.600	.2	18.600	.1	23.600	.1
3.700	.2	8.700	.2	13.700	.2	18.700	.1	23.700	.1
3.800	.2	8.800	.2	13.800	.2	18.800	.1	23.800	.1
3.900	.2	8.900	.2	13.900	.2	18.900	.1	23.900	.1
4.000	.2	9.000	.2	14.000	.2	19.000	.1	24.000	.1
4.100	.2	9.100	.2	14.100	.2	19.100	.1	24.100	.1
4.200	.2	9.200	.2	14.200	.2	19.200	.1	24.200	.1
4.300	.2	9.300	.2	14.300	.2	19.300	.1	24.300	.0
4.400	.2	9.400	.2	14.400	.2	19.400	.1	24.400	.0
4.500	.2	9.500	.2	14.500	.2	19.500	.1	24.500	.0
4.600	.2	9.600	.2	14.600	.2	19.600	.1	24.600	.0
4.700	.2	9.700	.2	14.700	.2	19.700	.1	24.700	.0
4.800	.2	9.800	.2	14.800	.2	19.800	.1	24.800	.0
4.900	.2	9.900	.2	14.900	.2	19.900	.1	24.900	.0

RUNOFF VOLUME = 1.63074 INCHES = 1.6838 ACRE-FEET
 PEAK DISCHARGE RATE = 31.30 CFS AT 1.600 HOURS BASIN AREA = .0194 SQ. MI.

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COMPUTE NM HYD ID=38 HYD NO=BASIN.E4 DA=.00577 SQ MI
 %A=0.0 %B=5.0 %C=5.0 %D=90.0
 TP=-0.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = 20.548 CFS UNIT VOLUME = 1.030 B = 526.28 P60 = 1.8400
 AREA = .005193 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE CONSTANT, N = 3.989065
 UNIT PEAK = 1.5377 CFS UNIT VOLUME = .9989 B = 354.44 P60 = 1.8400
 AREA = .000577 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=38 CODE=10

HYDROGRAPH FROM AREA BASIN.E4

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.1	10.000	.1	15.000	.1	20.000	.1
1.000	.0	6.000	.1	11.000	.1	16.000	.1	21.000	.1
2.000	3.4	7.000	.1	12.000	.1	17.000	.1	22.000	.1
3.000	.2	8.000	.1	13.000	.1	18.000	.1	23.000	.1
4.000	.1	9.000	.1	14.000	.1	19.000	.1	24.000	.1

RUNOFF VOLUME = 2.26513 INCHES = .6971 ACRE-FEET
 PEAK DISCHARGE RATE = 13.11 CFS AT 1.500 HOURS BASIN AREA = .0058 SQ. MI.

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ADD HYD ID=39 HYD=AP1 ID I=38 II=33
 PRINT HYD ID=39 CODE=10

HYDROGRAPH FROM AREA AP1

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	6.000	3.0	12.000	.4	18.000	.3	24.000	.2
1.000	.0	7.000	1.5	13.000	.4	19.000	.3	25.000	.0
2.000	28.9	8.000	.8	14.000	.4	20.000	.3	26.000	.0

3.000	9.0	9.000	.6	15.000	.3	21.000	.3
4.000	4.7	10.000	.5	16.000	.3	22.000	.3
5.000	3.8	11.000	.5	17.000	.3	23.000	.2

RUNOFF VOLUME = .82310 INCHES = 5.8728 ACRE-FEET
 PEAK DISCHARGE RATE = 67.94 CFS AT 1.500 HOURS BASIN AREA = .1338 SQ. MI.

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COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.026
 DIA=4.0 N=0.013

RATING CURVE PIPE SECTION 1.0			
WATER SURFACE ELEV	FLOW AREA SQ FT	FLOW RATE CFS	MAX WIDTH FT
.00	.00	.00	.00
.21	.25	1.21	1.78
.42	.69	5.27	2.44
.63	1.25	12.26	2.91
.83	1.90	22.05	3.25
1.04	2.60	34.43	3.51
1.25	3.36	49.13	3.71
1.46	4.15	65.82	3.85
1.67	4.96	84.15	3.94
1.88	5.79	103.74	3.99
2.08	6.62	124.15	4.00
2.29	7.45	144.94	4.00
2.50	8.27	165.61	4.00
2.71	9.06	185.62	4.00
2.92	9.82	204.35	4.00
3.13	10.54	221.12	4.00
3.34	11.20	235.07	4.00
3.54	11.77	245.05	4.00
3.75	12.24	249.15	4.00
4.00	12.57	249.15	4.00

ROUTE MCUNGE ID=40 HYD=RTE.E1E4 INFLOW ID=39
 DT=0.0 L=400 NS=0 SLOPE=0.026
 MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
 ZERO VALUE HYDROGRAPH OR SHORT ROUTE - ROUTING BYPASSED

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 PRINT HYD ID=40 CODE=0

HYDROGRAPH FROM AREA RTE.E1E4

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.300	3.6	10.600	.5	15.900	.3	21.200	.3
.100	.0	5.400	3.5	10.700	.5	16.000	.3	21.300	.3
.200	.0	5.500	3.4	10.800	.5	16.100	.3	21.400	.3
.300	.0	5.600	3.3	10.900	.5	16.200	.3	21.500	.3
.400	.0	5.700	3.2	11.000	.5	16.300	.3	21.600	.3
.500	.0	5.800	3.1	11.100	.5	16.400	.3	21.700	.3
.600	.0	5.900	3.1	11.200	.5	16.500	.3	21.800	.3
.700	.0	6.000	3.0	11.300	.5	16.600	.3	21.900	.3
.800	.0	6.100	2.9	11.400	.5	16.700	.3	22.000	.3
.900	.0	6.200	2.8	11.500	.4	16.800	.3	22.100	.3
1.000	.0	6.300	2.8	11.600	.4	16.900	.3	22.200	.3
1.100	.2	6.400	2.7	11.700	.4	17.000	.3	22.300	.3
1.200	3.7	6.500	2.6	11.800	.4	17.100	.3	22.400	.3
1.300	14.9	6.600	2.4	11.900	.4	17.200	.3	22.500	.3
1.400	54.4	6.700	2.1	12.000	.4	17.300	.3	22.600	.3
1.500	67.9	6.800	1.9	12.100	.4	17.400	.3	22.700	.3
1.600	53.0	6.900	1.7	12.200	.4	17.500	.3	22.800	.3
1.700	40.9	7.000	1.5	12.300	.4	17.600	.3	22.900	.3
1.800	35.0	7.100	1.4	12.400	.4	17.700	.3	23.000	.2
1.900	31.5	7.200	1.2	12.500	.4	17.800	.3	23.100	.3
2.000	28.9	7.300	1.1	12.600	.4	17.900	.3	23.200	.2
2.100	24.2	7.400	1.1	12.700	.4	18.000	.3	23.300	.2
2.200	20.6	7.500	1.0	12.800	.4	18.100	.3	23.400	.2
2.300	18.4	7.600	.9	12.900	.4	18.200	.3	23.500	.2
2.400	16.5	7.700	.9	13.000	.4	18.300	.3	23.600	.2
2.500	14.8	7.800	.9	13.100	.4	18.400	.3	23.700	.2
2.600	13.3	7.900	.8	13.200	.4	18.500	.3	23.800	.2
2.700	12.0	8.000	.8	13.300	.4	18.600	.3	23.900	.2
2.800	10.8	8.100	.8	13.400	.4	18.700	.3	24.000	.2
2.900	9.9	8.200	.7	13.500	.4	18.800	.3	24.100	.2
3.000	9.0	8.300	.7	13.600	.4	18.900	.3	24.200	.1
3.100	8.3	8.400	.7	13.700	.4	19.000	.3	24.300	.1

3.200	7.7	8.500	.7	13.800	.4	19.100	.3	24.400	.1
3.300	7.1	8.600	.7	13.900	.4	19.200	.3	24.500	.0
3.400	6.7	8.700	.7	14.000	.4	19.300	.3	24.600	.0
3.500	6.2	8.800	.6	14.100	.4	19.400	.3	24.700	.0
3.600	5.9	8.900	.6	14.200	.4	19.500	.3	24.800	.0
3.700	5.5	9.000	.6	14.300	.4	19.600	.3	24.900	.0
3.800	5.2	9.100	.6	14.400	.4	19.700	.3	25.000	.0
3.900	5.0	9.200	.6	14.500	.4	19.800	.3	25.100	.0
4.000	4.7	9.300	.6	14.600	.4	19.900	.3	25.200	.0
4.100	4.5	9.400	.6	14.700	.4	20.000	.3	25.300	.0
4.200	4.4	9.500	.6	14.800	.4	20.100	.3	25.400	.0
4.300	4.3	9.600	.6	14.900	.3	20.200	.3	25.500	.0
4.400	4.2	9.700	.6	15.000	.3	20.300	.3	25.600	.0
4.500	4.2	9.800	.6	15.100	.3	20.400	.3	25.700	.0
4.600	4.1	9.900	.5	15.200	.3	20.500	.3	25.800	.0
4.700	4.0	10.000	.5	15.300	.3	20.600	.3	25.900	.0
4.800	3.9	10.100	.5	15.400	.3	20.700	.3	26.000	.0
4.900	3.8	10.200	.5	15.500	.3	20.800	.3	26.100	.0
5.000	3.8	10.300	.5	15.600	.3	20.900	.3		
5.100	3.7	10.400	.5	15.700	.3	21.000	.3		
5.200	3.6	10.500	.5	15.800	.3	21.100	.3		

RUNOFF VOLUME = .82310 INCHES = 5.8728 ACRE-FEET
 PEAK DISCHARGE RATE = 67.94 CFS AT 1.500 HOURS BASIN AREA = .1338 SQ. MI.

*
 *
 ADD HYD ID=41 HYD=AP2 ID I=37 II=40
 PRINT HYD ID=41 CODE=10

HYDROGRAPH FROM AREA AP2

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	6.000	3.2	12.000	.6	18.000	.4	24.000	.4
1.000	.0	7.000	1.7	13.000	.6	19.000	.4	25.000	.0
2.000	37.5	8.000	1.0	14.000	.5	20.000	.4	26.000	.0
3.000	9.5	9.000	.9	15.000	.5	21.000	.4		
4.000	5.0	10.000	.8	16.000	.5	22.000	.4		
5.000	4.0	11.000	.7	17.000	.5	23.000	.4		

RUNOFF VOLUME = .92520 INCHES = 7.5565 ACRE-FEET
 PEAK DISCHARGE RATE = 99.13 CFS AT 1.500 HOURS BASIN AREA = .1531 SQ. MI.

*
 *
 COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.026
 DIA=4.0 N=0.013

RATING CURVE PIPE SECTION 1.0			
WATER SURFACE ELEV	FLOW AREA SQ FT	FLOW RATE CFS	MAX WIDTH FT
.00	.00	.00	.00
.21	.25	1.21	1.78
.42	.69	5.27	2.44
.63	1.25	12.26	2.91
.83	1.90	22.05	3.25
1.04	2.60	34.43	3.51
1.25	3.36	49.13	3.71
1.46	4.15	65.82	3.85
1.67	4.96	84.15	3.94
1.88	5.79	103.74	3.99
2.08	6.62	124.15	4.00
2.29	7.45	144.94	4.00
2.50	8.27	165.61	4.00
2.71	9.06	185.62	4.00
2.92	9.82	204.35	4.00
3.13	10.54	221.12	4.00
3.34	11.20	235.07	4.00
3.54	11.77	245.05	4.00
3.75	12.24	249.15	4.00
4.00	12.57	249.15	4.00

ROUTE MCUNGE ID=42 HYD=RTE.E1E4 INFLOW ID=41
 DT=0.0 L=600 NS=0 SLOPE=0.026
 MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
 ZERO VALUE HYDROGRAPH OR SHORT ROUTE - ROUTING BYPASSED

*

PRINT HYD

ID=42 CODE=0

HYDROGRAPH FROM AREA RTE.E1E4

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.300	3.8	10.600	.7	15.900	.5	21.200	.4
.100	.0	5.400	3.7	10.700	.7	16.000	.5	21.300	.4
.200	.0	5.500	3.7	10.800	.7	16.100	.5	21.400	.4
.300	.0	5.600	3.6	10.900	.7	16.200	.5	21.500	.4
.400	.0	5.700	3.5	11.000	.7	16.300	.5	21.600	.4
.500	.0	5.800	3.4	11.100	.7	16.400	.5	21.700	.4
.600	.0	5.900	3.3	11.200	.7	16.500	.5	21.800	.4
.700	.0	6.000	3.2	11.300	.7	16.600	.5	21.900	.4
.800	.0	6.100	3.2	11.400	.7	16.700	.5	22.000	.4
.900	.0	6.200	3.1	11.500	.6	16.800	.5	22.100	.4
1.000	.0	6.300	3.0	11.600	.6	16.900	.5	22.200	.4
1.100	.2	6.400	2.9	11.700	.6	17.000	.5	22.300	.4
1.200	4.2	6.500	2.9	11.800	.6	17.100	.5	22.400	.4
1.300	20.9	6.600	2.7	11.900	.6	17.200	.5	22.500	.4
1.400	76.7	6.700	2.4	12.000	.6	17.300	.5	22.600	.4
1.500	99.1	6.800	2.1	12.100	.6	17.400	.5	22.700	.4
1.600	84.3	6.900	1.9	12.200	.6	17.500	.5	22.800	.4
1.700	61.4	7.000	1.7	12.300	.6	17.600	.5	22.900	.4
1.800	48.8	7.100	1.6	12.400	.6	17.700	.5	23.000	.4
1.900	42.5	7.200	1.5	12.500	.6	17.800	.5	23.100	.4
2.000	37.5	7.300	1.4	12.600	.6	17.900	.4	23.200	.4
2.100	30.7	7.400	1.3	12.700	.6	18.000	.4	23.300	.4
2.200	24.3	7.500	1.2	12.800	.6	18.100	.4	23.400	.4
2.300	20.8	7.600	1.2	12.900	.6	18.200	.4	23.500	.4
2.400	18.3	7.700	1.1	13.000	.6	18.300	.4	23.600	.4
2.500	16.2	7.800	1.1	13.100	.6	18.400	.4	23.700	.4
2.600	14.3	7.900	1.1	13.200	.6	18.500	.4	23.800	.4
2.700	12.8	8.000	1.0	13.300	.6	18.600	.4	23.900	.4
2.800	11.5	8.100	1.0	13.400	.6	18.700	.4	24.000	.4
2.900	10.4	8.200	1.0	13.500	.6	18.800	.4	24.100	.3
3.000	9.5	8.300	1.0	13.600	.6	18.900	.4	24.200	.2
3.100	8.7	8.400	.9	13.700	.6	19.000	.4	24.300	.1
3.200	8.1	8.500	.9	13.800	.5	19.100	.4	24.400	.1
3.300	7.5	8.600	.9	13.900	.5	19.200	.4	24.500	.1
3.400	7.0	8.700	.9	14.000	.5	19.300	.4	24.600	.0
3.500	6.5	8.800	.9	14.100	.5	19.400	.4	24.700	.0
3.600	6.1	8.900	.9	14.200	.5	19.500	.4	24.800	.0
3.700	5.8	9.000	.9	14.300	.5	19.600	.4	24.900	.0
3.800	5.5	9.100	.8	14.400	.5	19.700	.4	25.000	.0
3.900	5.2	9.200	.8	14.500	.5	19.800	.4	25.100	.0
4.000	5.0	9.300	.8	14.600	.5	19.900	.4	25.200	.0
4.100	4.8	9.400	.8	14.700	.5	20.000	.4	25.300	.0
4.200	4.6	9.500	.8	14.800	.5	20.100	.4	25.400	.0
4.300	4.5	9.600	.8	14.900	.5	20.200	.4	25.500	.0
4.400	4.4	9.700	.8	15.000	.5	20.300	.4	25.600	.0
4.500	4.4	9.800	.8	15.100	.5	20.400	.4	25.700	.0
4.600	4.3	9.900	.8	15.200	.5	20.500	.4	25.800	.0
4.700	4.2	10.000	.8	15.300	.5	20.600	.4	25.900	.0
4.800	4.1	10.100	.7	15.400	.5	20.700	.4	26.000	.0
4.900	4.0	10.200	.7	15.500	.5	20.800	.4	26.100	.0
5.000	4.0	10.300	.7	15.600	.5	20.900	.4		
5.100	3.9	10.400	.7	15.700	.5	21.000	.4		
5.200	3.9	10.500	.7	15.800	.5	21.100	.4		

RUNOFF VOLUME = .92520 INCHES = 7.5565 ACRE-FEET
 PEAK DISCHARGE RATE = 99.13 CFS AT 1.500 HOURS BASIN AREA = .1531 SQ. MI.

*

ADD HYD
 PRINT HYD

ID=43 HYD=AP3 ID I=42 II=24
 ID=43 CODE=10

HYDROGRAPH FROM AREA AP3

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	6.000	3.7	12.000	1.0	18.000	.8	24.000	.6
1.000	.0	7.000	2.3	13.000	1.0	19.000	.7	25.000	.0
2.000	57.2	8.000	1.5	14.000	.9	20.000	.7	26.000	.0
3.000	10.9	9.000	1.3	15.000	.9	21.000	.7		
4.000	5.4	10.000	1.2	16.000	.8	22.000	.7		
5.000	4.4	11.000	1.1	17.000	.8	23.000	.6		

RUNOFF VOLUME = 1.06018 INCHES = 11.4763 ACRE-FEET
 PEAK DISCHARGE RATE = 180.36 CFS AT 1.500 HOURS BASIN AREA = .2030 SQ. MI.

*PLOT HYD ID=43

*
 COMPUTE NM HYD ID=44 HYD NO=BASIN.OFF6 DA=.0014 SQ MI
 %A=0.0 %B=0 %C=100.0 %D=0
 TP=-0.133 HR RAIN=-1

K = .105291HR TP = .133000HR K/TP RATIO = .791661 SHAPE CONSTANT, N = 4.531123
 UNIT PEAK = 4.0963 CFS UNIT VOLUME = 1.011 B = 389.14 P60 = 1.8400
 AREA = .001400 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=44 CODE=10

HYDROGRAPH FROM AREA BASIN.OFF6

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.000	.0	2.000	.3	3.000	.0		

RUNOFF VOLUME = .96928 INCHES = .0724 ACRE-FEET
 PEAK DISCHARGE RATE = 2.33 CFS AT 1.500 HOURS BASIN AREA = .0014 SQ. MI.

*
 ADD HYD ID=45 HYD=POND ID I=43 II=44
 PRINT HYD ID=45 CODE=10

HYDROGRAPH FROM AREA POND

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	6.000	3.7	12.000	1.0	18.000	.8	24.000	.6
1.000	.0	7.000	2.3	13.000	1.0	19.000	.7	25.000	.0
2.000	57.5	8.000	1.5	14.000	.9	20.000	.7	26.000	.0
3.000	10.9	9.000	1.3	15.000	.9	21.000	.7		
4.000	5.4	10.000	1.2	16.000	.8	22.000	.7		
5.000	4.4	11.000	1.1	17.000	.8	23.000	.6		

RUNOFF VOLUME = 1.05956 INCHES = 11.5486 ACRE-FEET
 PEAK DISCHARGE RATE = 182.68 CFS AT 1.500 HOURS BASIN AREA = .2044 SQ. MI.

*PLOT HYD ID=45

*
 *
 ROUTE RESERVOIR ID=46 HYD=POND.E INFLOW ID=45 CODE=5
 OUTFLOW STORAGE DEPTH

0	0.02	5440
0.011 0.05		5440.5
0.012 0.09		5441
0.013 0.13		5441.5
0.014 0.18		5442
0.015 0.24		5442.5
0.016 0.31		5443
0.017 0.39		5443.5
0.018 0.50		5444
0.02 0.65		5444.5
0.03 0.83		5445
0.50 1.03		5445.5
1.3	1.28	5446
2.2	1.56	5446.5
3.3	1.89	5447
4.5	2.25	5447.5
5.8	2.64	5448
7.6	3.08	5448.5
9.5	3.56	5449
11.5 4.08		5449.5
13.6 4.63		5450
15.8 5.21		5450.5
18.1 5.83		5451
20.5 6.49		5451.5
23.0 7.17		5452

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5440.00	.020	.00
.50	.00	5440.00	.020	.00
1.00	.00	5440.00	.020	.00
1.50	182.68	5447.39	2.168	4.23
2.00	57.50	5451.16	6.045	18.88
2.50	19.98	5451.57	6.590	20.87
3.00	10.89	5451.39	6.351	19.99
3.50	7.20	5451.07	5.920	18.43
4.00	5.43	5450.69	5.451	16.69
4.50	4.79	5450.32	5.005	15.02
5.00	4.42	5449.98	4.606	13.51
5.50	4.12	5449.66	4.253	12.16
6.00	3.73	5449.36	3.937	10.95
6.50	3.40	5449.09	3.656	9.87
7.00	2.27	5448.82	3.386	8.81
7.50	1.75	5448.55	3.125	7.78
8.00	1.53	5448.29	2.891	6.83
8.50	1.40	5448.05	2.687	5.99
9.00	1.32	5447.83	2.509	5.36
9.50	1.25	5447.63	2.352	4.84
10.00	1.19	5447.45	2.212	4.37
10.50	1.14	5447.27	2.088	3.96
11.00	1.10	5447.12	1.978	3.59
11.50	1.05	5446.99	1.881	3.27
12.00	1.02	5446.86	1.794	2.98
12.50	.98	5446.74	1.718	2.73
13.00	.95	5446.64	1.650	2.50
13.50	.93	5446.55	1.590	2.30
14.00	.91	5446.46	1.537	2.12
14.50	.88	5446.37	1.489	1.97
15.00	.86	5446.30	1.446	1.83
15.50	.84	5446.23	1.408	1.71
16.00	.82	5446.17	1.374	1.60
16.50	.80	5446.11	1.343	1.50
17.00	.79	5446.06	1.316	1.42
17.50	.77	5446.02	1.291	1.34
18.00	.75	5445.98	1.269	1.27
18.50	.74	5445.94	1.249	1.20
19.00	.73	5445.90	1.231	1.14
19.50	.71	5445.87	1.215	1.09
20.00	.70	5445.84	1.200	1.04
20.50	.69	5445.81	1.186	1.00
21.00	.68	5445.79	1.174	.96
21.50	.67	5445.77	1.163	.93
22.00	.66	5445.75	1.153	.89
22.50	.64	5445.73	1.143	.86
23.00	.63	5445.71	1.135	.84
23.50	.62	5445.69	1.127	.81
24.00	.62	5445.68	1.120	.79
24.50	.07	5445.64	1.099	.72
25.00	.01	5445.59	1.073	.64
25.50	.00	5445.54	1.048	.56
26.00	.00	5445.49	1.027	.49
26.50	.00	5445.44	1.008	.45
27.00	.00	5445.40	.990	.41
27.50	.00	5445.36	.974	.37

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
28.00	.00	5445.32	.959	.33
28.50	.00	5445.29	.946	.30
29.00	.00	5445.26	.934	.28
29.50	.00	5445.23	.923	.25
30.00	.00	5445.21	.914	.23
30.50	.00	5445.19	.905	.21
31.00	.00	5445.17	.897	.19
31.50	.00	5445.15	.889	.17
32.00	.00	5445.13	.883	.15
32.50	.00	5445.12	.877	.14
33.00	.00	5445.10	.871	.13
33.50	.00	5445.09	.866	.11
34.00	.00	5445.08	.862	.10
34.50	.00	5445.07	.857	.09
35.00	.00	5445.06	.854	.09
35.50	.00	5445.05	.850	.08

36.00	.00	5445.04	.847	.07
36.50	.00	5445.04	.845	.06
37.00	.00	5445.03	.842	.06
37.50	.00	5445.02	.840	.05
38.00	.00	5445.02	.838	.05
38.50	.00	5445.01	.836	.04
39.00	.00	5445.01	.834	.04
39.50	.00	5445.01	.832	.04
40.00	.00	5445.00	.831	.03
40.50	.00	5445.00	.830	.03
41.00	.00	5445.00	.829	.03
41.50	.00	5444.99	.827	.03
42.00	.00	5444.99	.826	.03
42.50	.00	5444.99	.825	.03
43.00	.00	5444.98	.824	.03
43.50	.00	5444.98	.822	.03
44.00	.00	5444.98	.821	.03
44.50	.00	5444.97	.820	.03
45.00	.00	5444.97	.819	.03
45.50	.00	5444.97	.818	.03
46.00	.00	5444.96	.816	.03
46.50	.00	5444.96	.815	.03
47.00	.00	5444.96	.814	.03
47.50	.00	5444.95	.813	.03
48.00	.00	5444.95	.812	.03
48.50	.00	5444.95	.810	.03
49.00	.00	5444.94	.809	.03
49.50	.00	5444.94	.808	.03
50.00	.00	5444.94	.807	.03
50.50	.00	5444.93	.806	.03
51.00	.00	5444.93	.804	.03
51.50	.00	5444.93	.803	.03
52.00	.00	5444.92	.802	.03
52.50	.00	5444.92	.801	.03
53.00	.00	5444.92	.800	.03
53.50	.00	5444.91	.799	.03
54.00	.00	5444.91	.797	.03
54.50	.00	5444.91	.796	.03
55.00	.00	5444.90	.795	.03
55.50	.00	5444.90	.794	.03

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
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56.00	.00	5444.90	.793	.03
56.50	.00	5444.89	.792	.03
57.00	.00	5444.89	.790	.03
57.50	.00	5444.89	.789	.03
58.00	.00	5444.88	.788	.03
58.50	.00	5444.88	.787	.03
59.00	.00	5444.88	.786	.03
59.50	.00	5444.87	.785	.03

PEAK DISCHARGE = 20.868 CFS - PEAK OCCURS AT HOUR 2.50
 MAXIMUM WATER SURFACE ELEVATION = 5451.574
 MAXIMUM STORAGE = 6.5901 AC-FT INCREMENTAL TIME= .100000HRS

*

PRINT HYD

ID=46 CODE=10

HYDROGRAPH FROM AREA POND.E

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	12.000	3.0	24.000	.8	36.000	.1	48.000	.0
1.000	.0	13.000	2.5	25.000	.6	37.000	.1	49.000	.0
2.000	18.9	14.000	2.1	26.000	.5	38.000	.0	50.000	.0
3.000	20.0	15.000	1.8	27.000	.4	39.000	.0	51.000	.0
4.000	16.7	16.000	1.6	28.000	.3	40.000	.0	52.000	.0
5.000	13.5	17.000	1.4	29.000	.3	41.000	.0	53.000	.0
6.000	11.0	18.000	1.3	30.000	.2	42.000	.0	54.000	.0
7.000	8.8	19.000	1.1	31.000	.2	43.000	.0	55.000	.0
8.000	6.8	20.000	1.0	32.000	.2	44.000	.0	56.000	.0
9.000	5.4	21.000	1.0	33.000	.1	45.000	.0	57.000	.0
10.000	4.4	22.000	.9	34.000	.1	46.000	.0	58.000	.0
11.000	3.6	23.000	.8	35.000	.1	47.000	.0	59.000	.0

RUNOFF VOLUME = .98950 INCHES = 10.7850 ACRE-FEET
 PEAK DISCHARGE RATE = 20.87 CFS AT 2.500 HOURS BASIN AREA = .2044 SQ. MI.

*PLOT HYD ID=46

*

COMPUTE NM HYD ID=47 HYD NO=BASIN.E6 DA=.00488 SQ MI
%A=0.0 %B=5.0 %C=5.0 %D=90.0
TP=-0.133 HR RAIN=-1

K = .072485HR TP = .133000HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 17.379 CFS UNIT VOLUME = 1.030 B = 526.28 P60 = 1.8400
AREA = .004392 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

K = .118257HR TP = .133000HR K/TP RATIO = .889153 SHAPE CONSTANT, N = 3.989065
UNIT PEAK = 1.3005 CFS UNIT VOLUME = .9989 B = 354.44 P60 = 1.8400
AREA = .000488 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .100000

PRINT HYD ID=47 CODE=10

HYDROGRAPH FROM AREA BASIN.E6

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	5.000	.1	10.000	.1	15.000	.1	20.000	.1
1.000	.0	6.000	.1	11.000	.1	16.000	.1	21.000	.1
2.000	2.9	7.000	.1	12.000	.1	17.000	.1	22.000	.1
3.000	.1	8.000	.1	13.000	.1	18.000	.1	23.000	.1
4.000	.1	9.000	.1	14.000	.1	19.000	.1	24.000	.1

RUNOFF VOLUME = 2.26512 INCHES = .5895 ACRE-FEET
PEAK DISCHARGE RATE = 11.09 CFS AT 1.500 HOURS BASIN AREA = .0049 SQ. MI.

*

ADD HYD ID=48 HYD=TOTALE ID I=46 II=47
PRINT HYD ID=48 CODE=10

HYDROGRAPH FROM AREA TOTALE

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	12.000	3.1	24.000	.8	36.000	.1	48.000	.0
1.000	.0	13.000	2.6	25.000	.6	37.000	.1	49.000	.0
2.000	21.8	14.000	2.2	26.000	.5	38.000	.0	50.000	.0
3.000	20.1	15.000	1.9	27.000	.4	39.000	.0	51.000	.0
4.000	16.8	16.000	1.7	28.000	.3	40.000	.0	52.000	.0
5.000	13.6	17.000	1.5	29.000	.3	41.000	.0	53.000	.0
6.000	11.1	18.000	1.3	30.000	.2	42.000	.0	54.000	.0
7.000	8.9	19.000	1.2	31.000	.2	43.000	.0	55.000	.0
8.000	6.9	20.000	1.1	32.000	.2	44.000	.0	56.000	.0
9.000	5.5	21.000	1.0	33.000	.1	45.000	.0	57.000	.0
10.000	4.5	22.000	.9	34.000	.1	46.000	.0	58.000	.0
11.000	3.7	23.000	.9	35.000	.1	47.000	.0	59.000	.0

RUNOFF VOLUME = 1.01925 INCHES = 11.3745 ACRE-FEET
PEAK DISCHARGE RATE = 21.75 CFS AT 2.000 HOURS BASIN AREA = .2092 SQ. MI.

*

*

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 15:32:06

```

*S VALLE PRADO @ THE TRAILS UNIT 3A DRAINAGE BASIN (D) PROPOSED
*S 100 YEAR - 24 HOUR STORM
*S
* CREATED NOVEMBER 10, 2014
*
*
*CONVERT TO NMHYMO
START TIME=0.0 HR PUNCH CODE=0
*****
LOCATION NM
*
*****
*
*****
*100 YEAR - 24 HOUR
RAINFALL TYPE=2 RAIN QUARTER=0
RAIN ONE=1.84 IN RAIN SIX=2.20 IN
RAIN DAY=2.66 IN DT=0.10 HRS

*S
*S *****
*S *COMPUTE ONSITE BASINS*
*S *****
*S
*S
*S
*S
*S COMPUTE BASIN 1 *****
*
COMPUTE NM HYD ID=1 HYD=1 AREA=0.005 PER A=0 PER B=24
PER C=24 PER D=52 TP=-0.1715 RAINFALL=-1
PRINT HYD ID=1 CODE=1
*
*S COMPUTE BASIN 2 *****
COMPUTE NM HYD ID=2 HYD=2 AREA=0.004513 PER A=0 PER B=26
PER C=26 PER D=48 TP=-0.1715 RAINFALL=-1
PRINT HYD ID=2 CODE=1
*
*S COMPUTE BASIN 3 *****
COMPUTE NM HYD ID=3 HYD=3 AREA=0.006875 PER A=0 PER B=31
PER C=31 PER D=38 TP=-0.1715 RAINFALL=-1
PRINT HYD ID=3 CODE=1
*
*S COMPUTE BASIN 4 *****
COMPUTE NM HYD ID=4 HYD=4 AREA=0.003594 PER A=0 PER B=26
PER C=26 PER D=48 TP=-0.1715 RAINFALL=-1
PRINT HYD ID=4 CODE=1
*
*S COMPUTE BASIN 5 *****
COMPUTE NM HYD ID=5 HYD=5 AREA=0.001875 PER A=0 PER B=31.5
PER C=31.5 PER D=37 TP=-0.1715 RAINFALL=-1
PRINT HYD ID=5 CODE=1
*
*S COMPUTE FUTURE BASIN 1 *****
COMPUTE NM HYD ID=6 HYD=FB.1 AREA=0.010781 PER A=0 PER B=21
PER C=21 PER D=58 TP=-0.1715 RAINFALL=-1
PRINT HYD ID=6 CODE=1
*
*S COMPUTE FUTURE BASIN 2 *****
COMPUTE NM HYD ID=7 HYD=FB.2 AREA=0.0075 PER A=0 PER B=23
PER C=23 PER D=54 TP=-0.1715 RAINFALL=-1
PRINT HYD ID=7 CODE=1
*
*S COMPUTE FUTURE BASIN 3 *****

```

```

COMPUTE NM HYD          ID=8 HYD=FB.3  AREA=0.005938  PER A=0 PER B=22.5
                        PER C=22.5 PER D=55  TP=-0.1715  RAINFALL=-1
PRINT HYD              ID=8    CODE=1
*
*S COMPUTE FUTURE BASIN 4 *****
COMPUTE NM HYD          ID=9 HYD=FB.4  AREA=0.004844  PER A=0 PER B=29.5
                        PER C=29.5 PER D=41  TP=-0.1715  RAINFALL=-1
PRINT HYD              ID=9    CODE=1
*
*S COMPUTE OFFSITE BASIN 2 *****
COMPUTE NM HYD          ID=10 HYD=OFF.2  AREA=0.000938  PER A=80 PER B=20
                        PER C=0 PER D=0  TP=-0.1715  RAINFALL=-1
PRINT HYD              ID=10   CODE=1
*
*S COMPUTE OFFSITE BASIN 3 *****
COMPUTE NM HYD          ID=11 HYD=OFF.3  AREA=0.001094  PER A=76 PER B=24
                        PER C=0 PER D=0  TP=-0.1715  RAINFALL=-1
PRINT HYD              ID=11   CODE=1
*
*S COMPUTE OFFSITE BASIN 4 *****
COMPUTE NM HYD          ID=12 HYD=OFF.4  AREA=0.001406  PER A=80 PER B=20
                        PER C=0 PER D=0  TP=-0.1715  RAINFALL=-1
PRINT HYD              ID=12   CODE=1
*
*S COMPUTE OFFSITE BASIN 5 *****
COMPUTE NM HYD          ID=13 HYD=OFF.5  AREA=0.003281  PER A=95 PER B=5
                        PER C=0 PER D=0  TP=-0.1715  RAINFALL=-1
PRINT HYD              ID=13   CODE=1
*
*S COMPUTE OFFSITE BASIN WELL *****
COMPUTE NM HYD          ID=14 HYD=OFF.WELL  AREA=0.001563  PER A=0 PER B=40
                        PER C=40 PER D=20  TP=-0.1715  RAINFALL=-1
PRINT HYD              ID=14   CODE=1
*
*S
*
*S ADD BASINS 1 AND 2 TO CREATE TEMP A *****
ADD HYD                ID=15 HYD=TEMP.A ID I=1 II=2
PRINT HYD              ID=15 CODE=0
*
*S ADD BASINS TEMP A AND 3 TO CREATE TEMP 1.B*****
ADD HYD                ID=16 HYD=TEMP.B ID I=15 II=3
PRINT HYD              ID=16 CODE=0
*
*S ADD BASINS TEMP B AND 5 TO CREATE TEMP C*****
ADD HYD                ID=17 HYD=TEMP.C ID I=16 II=5
PRINT HYD              ID=17 CODE=0
*
*S ADD BASINS TEMP C AND FUTURE BASIN 1 TO CREATE TEMP D*****
ADD HYD                ID=18 HYD=TEMP.D ID I=17 II=6
PRINT HYD              ID=18 CODE=0
*
*S ADD BASINS TEMP D AND FUTURE BASIN 2 TO CREATE TEMP E*****
ADD HYD                ID=19 HYD=TEMP.E ID I=18 II=7
PRINT HYD              ID=19 CODE=0
*
*S ADD BASINS TEMP E AND FUTURE BASIN 3 TO CREATE TEMP F*****
ADD HYD                ID=20 HYD=TEMP.F ID I=19 II=8
PRINT HYD              ID=20 CODE=0
*
*S ADD BASINS TEMP F AND OFFSITE BASIN 3 TO CREATE TEMP G*****
ADD HYD                ID=21 HYD=TEMP.G ID I=20 II=11
PRINT HYD              ID=21 CODE=0

```

```

*
*S ADD BASINS TEMP G AND OFFSITE BASIN 4 TO CREATE TEMP H*****
ADD HYD          ID=22 HYD=TEMP.H ID I=21 II=12
PRINT HYD        ID=22 CODE=0
*
*S ADD BASINS TEMP H AND OFFSITE BASIN WELL TO CREATE TEMP I*****
ADD HYD          ID=23 HYD=TEMP.1 ID I=22 II=14
PRINT HYD        ID=23 CODE=0
*
*S ADD BASINS TEMP I AND OFFSITE BASIN 5 TO CREATE TEMP J*****
ADD HYD          ID=24 HYD=TEMP.J ID I=23 II=13
PRINT HYD        ID=24 CODE=0
*
*S TEMP BASIN J REPLACES BASIN E3 AND E5 FROM THE DMP AHYMO FILE*****

```

```

COMPUTE NM HYD    ID=25 HYD NO=OFFSITE2 DA=.0805 SQ MI
                  %A=100 %B=0.0 %C=0.0 %D=0.0
                  TP=-.66 HR RAIN=-1
PRINT HYD        ID=25 CODE=10

```

```

*
*
*ROUTE RESERVOIR  ID=26 HYD=OFFPOND2 INFLOW ID=25 CODE=5
*                OUTFLOW  STORAGE  DEPTH
*                0    0          0
*                2.16 0.047      1
*                3.06 0.222      2
*                3.75 0.466      3
*                4.33 0.751      4
*                4.84 1.081      5
*

```

```

*PRINT HYD        ID=26 CODE=10

```

```

*
*COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.011
*                DIA=2.0 N=0.013
*ROUTE MCUNGE     ID=27 HYD=RTE.OFFPOND2 INFLOW ID=26
*                DT=0.0 L=900 NS=0 SLOPE=0.011
*                MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
*PRINT HYD        ID=27 CODE=0

```

```

COMPUTE NM HYD    ID=28 HYD NO=BASIN.B DA=.01998 SQ MI
                  %A=0 %B=34.0 %C=34.0 %D=32.0
                  TP=-.133 HR RAIN=-1
PRINT HYD        ID=28 CODE=10

```

```

*
*
ROUTE RESERVOIR  ID=29 HYD=POND.B INFLOW ID=28 CODE=5
*                OUTFLOW  STORAGE  DEPTH
*                0    0          5515
*                1.71 0.06      5516
*                2.42 0.24      5517
*                2.96 0.55      5518
*                3.42 0.99      5519
*                3.82 1.67      5520
*

```

```

*PRINT HYD        ID=29 CODE=10

```

```

*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.03
      DIA=2.0 N=0.013
ROUTE MCUNGE      ID=30 HYD=RTE.PONDB INFLOW ID=29
      DT=0.0 L=1180 NS=0 SLOPE=0.03
      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD      ID=30 CODE=0
*
*
ADD HYD      ID=31 HYD=OFF.B ID I=30 II=25
PRINT HYD      ID=31 CODE=10
*
*
COMPUTE NM HYD      ID=32 HYD NO=BASINE1.1 DA=.02753 SQ MI
      %A=0.0 %B=33.0 %C=33.0 %D=34.0
      TP=-0.133 HR RAIN=-1
PRINT HYD      ID=32 CODE=10
*
*
ADD HYD      ID=33 HYD=OFF.E11 ID I=32 II=31
PRINT HYD      ID=33 CODE=10
*
*
COMPUTE NM HYD      ID=34 HYD NO=BASINE1.2 DA=.00588 SQ MI
      %A=0.0 %B=33.0 %C=33.0 %D=34.0
      TP=-0.133 HR RAIN=-1
PRINT HYD      ID=34 CODE=10
*
*
COMPUTE NM HYD      ID=35 HYD NO=BASIN.E2 DA=.01348 SQ MI
      %A=0.0 %B=18.0 %C=18.0 %D=64.0
      TP=-.133 HR RAIN=-1
PRINT HYD      ID=35 CODE=10
*
*
ADD HYD      ID=36 HYD=E2.E12 ID I=34 II=35
PRINT HYD      ID=36 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.002
      DIA=3.0 N=0.013
ROUTE MCUNGE      ID=37 HYD=RTE.E12 INFLOW ID=36
      DT=0.0 L=800 NS=0 SLOPE=0.01
      MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD      ID=37 CODE=0
*
*
COMPUTE NM HYD      ID=38 HYD NO=BASIN.E4 DA=.00577 SQ MI
      %A=0.0 %B=5.0 %C=5.0 %D=90.0
      TP=-0.133 HR RAIN=-1
PRINT HYD      ID=38 CODE=10
*
*
ADD HYD      ID=39 HYD=AP1 ID I=38 II=33
PRINT HYD      ID=39 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.026
      DIA=4.0 N=0.013
ROUTE MCUNGE      ID=40 HYD=RTE.E1E4 INFLOW ID=39

```



```

DT=0.0 L=400 NS=0 SLOPE=0.026
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD ID=40 CODE=0
*
*
ADD HYD ID=41 HYD=AP2 ID I=37 II=40
PRINT HYD ID=41 CODE=10
*
*
COMPUTE RATING CURVE CID=1 VS NO=1 CODE=-1 SLP=0.026
DIA=4.0 N=0.013
ROUTE MCUNGE ID=42 HYD=RTE.E1E4 INFLOW ID=41
DT=0.0 L=600 NS=0 SLOPE=0.026
MATCODE=0 REGCODE=0 CCODE=0 MM CODE=0
*
PRINT HYD ID=42 CODE=0
*
ADD HYD ID=43 HYD=AP3 ID I=42 II=24
PRINT HYD ID=43 CODE=10
*PLOT HYD ID=43
*
COMPUTE NM HYD ID=44 HYD NO=BASIN.OFF6 DA=.0014 SQ MI
%A=0.0 %B=0 %C=100.0 %D=0
TP=-0.133 HR RAIN=-1
PRINT HYD ID=44 CODE=10
*
ADD HYD ID=45 HYD=POND ID I=43 II=44
PRINT HYD ID=45 CODE=10
*PLOT HYD ID=45
*
*
ROUTE RESERVOIR ID=46 HYD=POND.E INFLOW ID=45 CODE=5
OUTFLOW STORAGE DEPTH
0 0.02 5440
0.011 0.05 5440.5
0.012 0.09 5441
0.013 0.13 5441.5
0.014 0.18 5442
0.015 0.24 5442.5
0.016 0.31 5443
0.017 0.39 5443.5
0.018 0.50 5444
0.02 0.65 5444.5
0.03 0.83 5445
0.50 1.03 5445.5
1.3 1.28 5446
2.2 1.56 5446.5
3.3 1.89 5447
4.5 2.25 5447.5
5.8 2.64 5448
7.6 3.08 5448.5
9.5 3.56 5449
11.5 4.08 5449.5
13.6 4.63 5450
15.8 5.21 5450.5
18.1 5.83 5451
20.5 6.49 5451.5
23.0 7.17 5452
*
PRINT HYD ID=46 CODE=10
*PLOT HYD ID=46

```

```
*
COMPUTE NM HYD      ID=47  HYD NO=BASIN.E6  DA=.00488 SQ MI
                    %A=0.0  %B=5.0  %C=5.0  %D=90.0
                    TP=-0.133 HR  RAIN=-1
PRINT HYD           ID=47  CODE=10
*
ADD HYD              ID=48  HYD=TOTALE ID I=46 II=47
PRINT HYD           ID=48  CODE=10
*
FINISH
```


half Riser

Valle Prado Pond E
Job # 20150013
11/10/2014

Water Surf ft	Water Depth ft	1st Row Head ft	Perforation Q cfs	Open Top Q cfs	Cumulative Q	Orifice Coefficient =	Stand Pipe Diameter in	Stand Pipe Height ft	Stand Pipe Area sq ft	Open Top yes	Hole Size in	# of Holes/Row sq in	Clogging Factor %	Row Area sq in	Net Row Area sq in	Row Spacing in	Top Row Depth ft	# of Rows
5445	0.00	0.00	0.00	0.00	0.00000	0.6	36	6	7.068583	yes	3	7.069	20.0%	28.27	22.62	6.00	5.50	11.00
5445.5	0.50	0.50	0.53	0.00	0.53481													
5446	1.00	1.00	0.76	0.00	1.29114													
5446.5	1.50	1.50	0.93	0.00	2.21746													
5447	2.00	2.00	1.07	0.00	3.28708													
5447.5	2.50	2.50	1.20	0.00	4.48295													
5448	3.00	3.00	1.31	0.00	5.79296													
5448.5	3.50	3.50	1.41	0.00	7.20793													
	4.00	4.00	1.51	0.00	8.72060													
	4.50	4.50	1.60	0.00	10.32503													
	5.00	5.00	1.69	0.00	12.01625													
	5.50	5.50	1.77	0.00	13.79001													
	6.00	6.00	1.85	0.00	15.64264													
	6.50	6.50	1.93	24.07	41.63735													
	7.00	7.00	2.00	34.04	53.60706													
	7.50	7.50	2.07	41.68	63.32758													
	8.00	8.00	2.14	48.13	71.91540													
	8.50	8.50	2.21	53.81	79.80178													
	9.00	9.00	2.27	58.95	87.20709													
	9.50	9.50	2.33	63.67	94.26158													
	10.00	10.00	2.39	68.07	101.04968													
	10.50	10.50	2.45	72.20	107.62963													
	11.00	11.00	2.51	76.10	111.53507													
	11.50	11.50	2.56	79.82	117.75813													
	12.00	12.00	2.62	83.37	123.87223													
	12.50	12.50	2.67	86.77	129.89644													
	13.00	13.00	2.73	90.05	135.84607													
	13.50	13.50	2.78	93.21	141.73362													
	14.00	14.00	2.83	96.27	147.56941													

full Riser

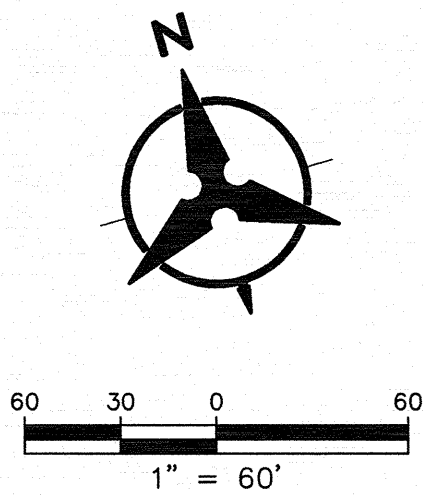
Valle Prado Pond E
Job # 20150013
11/10/2014

Water Surf. ft	Water Depth ft	1st Row Head ft	Perforation Q cfs	Open Top Q cfs	Cumulative Q	Orifice Coefficient =	Stand Pipe Diameter in	Stand Pipe Height ft	Stand Pipe Area sq ft	Open Top yes	Hole Size in	# of Holes/Row sq in	Clogging Factor %	Row Area sq in	Net Row Area sq in	Row Spacing in	Top Row Depth ft	# of Rows	
5445	0.00	0.00	0.00	0.00	0.00000	0.6	36	10	7.068583	yes	3	7.069	5.00	20.0%	35.34	28.27	6.00	9.50	19.00
5445.5	0.50	0.50	0.67	0.00	0.66851														
5446	1.00	1.00	0.95	0.00	1.61393														
5446.5	1.50	1.50	1.16	0.00	2.77183														
5447	2.00	2.00	1.34	0.00	4.10885														
5447.5	2.50	2.50	1.49	0.00	5.60369														
5448	3.00	3.00	1.64	0.00	6.12046														
5448.5	3.50	3.50	1.77	0.00	7.56168														
5449	4.00	4.00	1.89	0.00	9.45251														
5449.5	4.50	4.50	2.01	0.00	11.45805														
5450	5.00	5.00	2.11	0.00	13.57207														
5450.5	5.50	5.50	2.22	0.00	15.78927														
5451	6.00	6.00	2.32	0.00	18.10506														
5451.5	6.50	6.50	2.41	0.00	20.51542														
5452	7.00	7.00	2.50	0.00	23.01676														
	7.50	7.50	2.59	0.00	25.60590														
	8.00	8.00	2.67	0.00	28.27994														
	8.50	8.50	2.76	0.00	31.03629														
	9.00	9.00	2.84	0.00	33.87254														
	9.50	9.50	2.91	0.00	36.78652														
	10.00	10.00	2.99	0.00	39.77619														
	10.50	10.50	3.06	24.07	66.90612														
	11.00	11.00	3.14	34.04	80.01036														
	11.50	11.50	3.21	41.68	90.86564														
	12.00	12.00	3.28	48.13	100.58924														
	12.50	12.50	3.34	53.81	109.61311														
	13.00	13.00	3.41	58.95	118.15817														
	13.50	13.50	3.47	63.67	126.35517														
	14.00	14.00	3.54	68.07	134.28896														

POND E STAGE-STORAGE

Elevation	Incremental Volume	Revised Pond E Volume.txt		Surface Area
	cu ft	Cumulative Volume	Acre-Feet	
	cu ft	cu ft		sq ft
5440.0000	947.9676	947.9676	0.0218	2195.9910
5440.5000	1252.1439	2200.1115	0.0505	2816.7051
5441.0000	1568.6822	3768.7937	0.0865	3462.1436
5441.5000	1897.5824	5666.3760	0.1301	4132.3074
5442.0000	2238.8444	7905.2205	0.1815	4827.1917
5442.5000	2592.4684	10497.6889	0.2410	5546.8013
5443.0000	2958.4543	13456.1432	0.3089	6291.1350
5443.5000	3435.4544	16891.5976	0.3878	7730.0244
5444.0000	4765.1367	21656.7343	0.4972	11509.0708
5444.5000	6504.2686	28161.0028	0.6465	14383.7778
5445.0000	7808.1540	35969.1568	0.8257	16819.7476
5445.5000	9050.1165	45019.2732	1.0335	19472.6843
5446.0000	10552.3791	55571.6523	1.2757	22897.4426
5446.5000	12399.6673	67971.3196	1.5604	26711.8103
5447.0000	14226.0884	82197.4080	1.8870	30166.4624
5447.5000	15799.2714	97996.6794	2.2497	32936.1387
5448.0000	17162.7529	115159.4323	2.6437	35936.8713
5448.5000	18911.3998	134070.8321	3.0778	39780.8455
5449.0000	20890.8554	154961.6875	3.5574	43654.4771
5449.5000	22601.3955	177563.0830	4.0763	46670.2239
5450.0000	24056.8956	201619.9786	4.6286	49563.0105
5450.5000	25519.4525	227139.4310	5.2144	52537.9075
5451.0000	27004.5349	254143.9660	5.8343	55441.2068
5451.5000	28404.4083	282548.3743	6.4864	58136.0886
5452.0000	29692.9470	312241.3213	7.1681	60613.1260

VALLE PRADO
UNITS 1 & 2
INLET AND STORM DRAIN NETWORK MAP
REVISED 11/19/14



LEGEND

- PROPOSED STORM DRAIN PIPE ———
PROPOSED STORM DRAIN MANHOLE ○
PROPOSED STORM DRAIN INLET □

SUMMARY OF PIPE FLOWS				
ID	SIZE	SLOPE (%)	Q (cfs) ALLOWABLE	Q (cfs) ACTUAL
SDP1	18"	0.6%	8.1	6.2
SDP2	24"	4.0%	45.2	12.4
SDP3	24"	1.4%	27.0	30.2
SDP4	24"	3.1%	39.9	30.2
SDP5	24"	4.3%	46.8	30.2
SDP6	48"	5.4%	333.8	65.6
SDP7	24"	3.7%	43.5	10.8
SDP8	48"	1.1%	150.7	65.6
SDP9	18"	2.1%	15.2	3.1
SDP10	24"	2.1%	32.8	6.2
SDP11	24"	3.8%	44.1	25.2
SDP12	18"	3.7%	20.2	5.3
SDP13	18"	1.0%	10.5	3.1
SDP14	48"	3.1%	252.9	65.6
SDP15	24"	3.5%	42.5	14.6
SDP16	18"	4.4%	22.1	7.3
SDP17	48"	4.4%	301.3	65.6
SDP18	42"	0.5%	71.1	54.8
SDP19	24"	0.5%	16.0	6.2
SDP20	24"	1.7%	29.5	37.8
SDP21	18"	3.4%	19.4	5.4
SDP22	18"	1.8%	14.1	5.4
SDP23	54"	0.5%	132.4	103.4
SDP24	54"	0.8%	175.9	169.7
SDP25	60"	0.4%	164.7	180.6
SDP26	18"	5.3%	24.1	7.5
SDP27	24"	13.1%	82.0	10.9
SDP28	18"	7.4%	28.6	7.5
SDP29	36"	5.7%	159.0	55.4
SDP30	18"	5.0%	23.6	5.5
SDP31	24"	5.1%	51.1	8.9
SDP32	24"	1.2%	24.7	17.8
SDP33	18"	6.4%	26.6	5.5

SUMMARY OF INLET FLOWS					
ID	STREET SLOPE	WATER DEPTH (ft)	STREET FLOW UPSTREAM OF INLET (cfs)	FLOW CAPTURED BY INLET (cfs)	STREET FLOW BYPASSING INLET (cfs)
IN1	4.30%	0.33	7.1	5.4	1.7
IN2	4.30%	0.33	7.1	5.4	1.7
IN3	3.50%	0.40	12.8	7.3	5.5
IN4	3.50%	0.40	12.8	7.3	5.5
IN5	2.50%	0.37	8.0	5.3	2.7
IN6	2.50%	0.37	8.0	5.3	2.7
IN7	6.70%	0.33	9.0	6.2	2.8
IN8	6.70%	0.33	9.0	6.2	2.8
IN9	0.80%	0.47	10.7	5.5	5.2
IN10	0.80%	0.47	10.7	5.5	5.2
IN11	0.80%	0.38	5.2	3.4	1.8
IN12	0.80%	0.38	5.2	3.4	1.8
IN13	1.80%	0.45	12.8	7.5	5.3
IN14	1.80%	0.45	12.8	7.5	5.3
IN15	2.80%	0.32	5.3	3.4	1.9
IN16	2.80%	0.32	5.3	3.4	1.9
IN17	5.00%	0.26	3.5	3.1	0.4
IN18	5.00%	0.26	3.5	3.1	0.4

SUMMARY OF MANHOLES FLOWS	
ID	STORM DRAIN FLOWRATE (cfs)
exSDMH1	103.4
MH1	6.2
MH2	55.4
MH3	30.2
MH4	30.2
MH5	30.2
MH6	65.6
MH7	65.6
MH8	6.2
MH9	65.6
MH10	10.8
MH11	169.7
MH12	65.6



Signature
11/19/14

Design Log

InRoads Storm & Sanitary Design Log

Drainage File: P:\20150013\CDP\Reports\Unit 1_2 DR Addendum #2\20150013_SD.sdb

Design File: P:\20150013\CDP\DESIGN\DRAWING1.DWG

Display Log: P:\20150013\CDP\DESIGN\design.log

Date: Thursday, November 20, 2014 12:08:19 PM

HGL/EGL Computations:

Table A:

Struct_ID	D (in)	Q (cfs)	L (ft)	V (ft/s)	d (ft)	dc (ft)	VA2/2g (ft)	Sf (ft/ft)	Dn_Soffit (ft)	EGLdn (ft)	HGLdn (ft)	Tot_Loss (ft)	EGLup (ft)	HGLup (ft)	Rim_Elev. (ft)
Outfall	-	-	-	-	-	-	-	-	-	-	-	-	-	5447.50	-
(Alternate HGL and EGL Used)	-	-	-	-	-	-	-	-	-	-	-	-	5450.21	5448.90	-
SDP25	60	180.61	76.79	9.20	-	-	1.31	0.0048	5448.90	5450.21	5448.90	0.37	5450.58	5449.27	-
IN16	-	-	-	-	-	-	-	-	-	5450.58	5449.27	0.32	5450.90	5449.59	5452.43
SDP24	54	169.71	11.31	10.67	-	-	1.77	0.0074	5448.70	5450.90	5449.59	0.08	5450.99	5449.22	-
SDMH11	-	-	-	-	-	-	-	-	-	5450.99	5449.22	0.73	5451.71	5449.94	5452.75
SDP23	54	103.41	96.07	6.50	-	-	0.66	0.0028	5448.86	5451.71	5449.94	0.27	5451.98	5451.32	-
exSDMH1	-	-	-	-	-	-	-	-	-	5451.98	5451.32	0.33	5452.31	5451.65	5452.15
SDP8	48	65.63	211.12	5.22	-	-	0.42	0.0021	5448.76	5452.31	5451.65	0.44	5452.75	5452.33	-
SDMH7	-	-	-	-	-	-	-	-	-	5452.75	5452.33	0.04	5452.80	5452.37	5457.54
SDP6	48	65.63	191.03	20.56	-	-	6.57	0.0021	5451.15	5452.80	5452.37	-	5464.81	5458.24	-
SDMH6	-	-	-	-	-	-	-	-	-	5464.81	5458.24	-	5464.81	5458.24	5466.56
SDP17	48	65.63	218.86	20.58	1.20	2.44	6.58	-	5461.14	5464.93	5458.34	-	5476.34	5469.75	-
SDMH9	-	-	-	-	-	-	-	-	-	5476.34	5469.75	-	5476.34	5469.75	5476.70
SDP14	48	65.63	42.01	16.92	1.39	2.44	4.45	-	5472.65	5474.49	5470.04	-	5475.58	5471.13	-
SDMH12	-	-	-	-	-	-	-	-	-	5475.58	5471.13	-	5475.58	5471.13	5478.77
SDP34	42	54.83	12.04	8.16	2.30	2.31	1.03	-	5473.27	5473.11	5472.07	-	5473.15	5472.11	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5450.58	5449.27	-
IN16	-	-	-	-	-	-	-	-	-	5450.58	5449.27	0.08	5450.66	5449.35	5452.43
SDP28	18	7.50	20.06	4.24	-	-	0.28	0.0051	5449.43	5450.66	5449.35	0.10	5450.76	5450.48	-
IN14	-	-	-	-	-	-	-	-	-	5450.76	5450.48	-	5450.76	5450.48	5452.93
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5450.99	5449.22	-
SDMH11	-	-	-	-	-	-	-	-	-	5450.99	5449.22	0.37	5451.35	5449.59	5452.75
SDP29	36	55.40	74.64	7.84	-	-	0.95	0.0069	5447.42	5451.35	5449.59	0.51	5451.87	5450.92	-
SDMH2	-	-	-	-	-	-	-	-	-	5451.87	5450.92	0.15	5452.02	5451.07	5454.09
SDP3	24	30.20	97.93	9.61	-	-	1.44	0.0178	5450.33	5452.02	5451.07	1.75	5453.77	5452.33	-
SDMH3	-	-	-	-	-	-	-	-	-	5453.77	5452.33	0.60	5454.37	5452.94	5455.53
SDP4	24	30.20	113.83	9.61	-	-	1.44	0.0178	5451.74	5454.37	5452.94	2.03	5456.40	5454.96	-
SDMH4	-	-	-	-	-	-	-	-	-	5456.40	5454.96	0.48	5456.88	5455.44	5459.00
SDP5	24	30.20	177.97	15.83	-	-	3.90	0.0178	5455.23	5456.88	5455.44	-	5465.69	5461.80	-
SDMH5	-	-	-	-	-	-	-	-	-	5465.69	5461.80	-	5465.69	5461.80	5466.43
SDP32	24	17.80	59.75	8.55	1.26	1.52	1.14	-	5464.62	5465.02	5463.88	-	5465.65	5464.52	-
IN11	-	-	-	-	-	-	-	-	-	5465.65	5464.52	-	5465.65	5464.52	5467.76
SDP31	24	8.90	28.04	12.18	0.57	1.06	2.30	-	5465.26	5466.82	5464.52	-	5467.37	5465.06	-
IN12	-	-	-	-	-	-	-	-	-	5467.37	5465.06	-	5467.37	5465.06	5469.00
SDP30	18	5.50	20.01	10.87	0.49	0.90	1.84	-	5466.00	5466.90	5465.06	-	5467.51	5465.67	-
IN10	-	-	-	-	-	-	-	-	-	5467.51	5465.67	-	5467.51	5465.67	5470.17

VP SD HGL02.txt

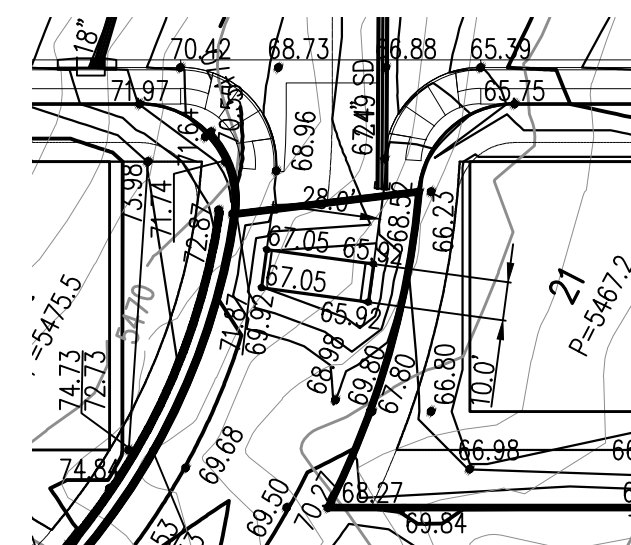
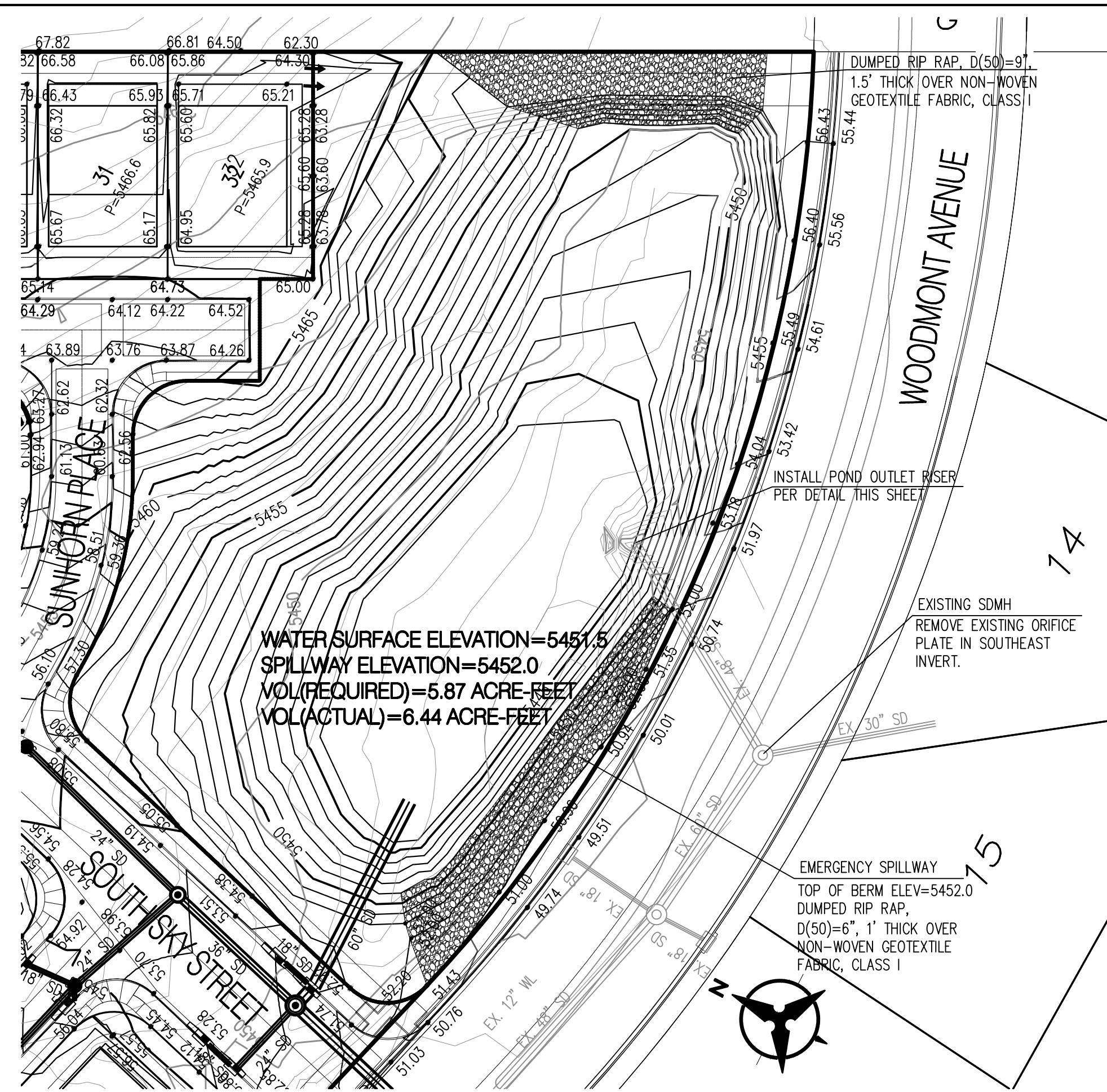
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5450.99	5449.22	-	5450.99	5449.22	-
SDMH11	-	-	-	-	-	-	-	-	-	-	-	-	5450.99	5449.22	0.33	5451.31	5449.54	5452.75
SDP27	24	10.90	41.04	3.47	-	-	0.19	0.0023	5446.07	5451.31	5449.54	0.10	5451.41	5451.22	-	5451.41	5451.22	-
IN15	-	-	-	-	-	-	-	-	-	5451.41	5451.22	0.18	5451.59	5451.40	5453.15	5451.59	5451.40	5453.15
SDP26	18	7.50	20.03	4.24	-	-	0.28	0.0051	5450.15	5451.59	5451.40	0.10	5451.69	5451.41	-	5451.69	5451.41	-
IN13	-	-	-	-	-	-	-	-	-	5451.69	5451.41	-	5451.69	5451.41	-	5451.69	5451.41	5453.36
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5451.98	5451.32	-	5451.98	5451.32	-
exSDMH1	-	-	-	-	-	-	-	-	-	-	-	-	5451.98	5451.32	0.27	5452.25	5451.59	5452.15
SDP20	24	37.78	174.64	12.03	-	-	2.25	0.0279	5446.76	5452.25	5451.59	4.87	5457.12	5454.87	-	5457.12	5454.87	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5475.58	5471.13	-	5475.58	5471.13	-
SDMH12	-	-	-	-	-	-	-	-	-	-	-	-	5475.58	5471.13	-	5475.58	5471.13	5478.77
SDP7	24	10.80	71.96	11.47	0.68	1.17	2.04	-	5472.02	5473.17	5471.13	-	5475.17	5473.13	-	5475.17	5473.13	-
SDMH10	-	-	-	-	-	-	-	-	-	5475.17	5473.13	-	5475.17	5473.13	5481.96	5475.17	5473.13	5481.96
SDP21	18	5.40	29.80	9.36	0.54	0.89	1.36	-	5477.71	5478.11	5476.75	-	5478.99	5477.63	-	5478.99	5477.63	-
IN1	-	-	-	-	-	-	-	-	-	5478.99	5477.63	-	5478.99	5477.63	5482.34	5478.99	5477.63	5482.34
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5451.87	5450.92	-	5451.87	5450.92	-
SDMH2	-	-	-	-	-	-	-	-	-	-	-	-	5451.87	5450.92	0.25	5452.12	5451.17	5454.09
SDP11	24	25.20	70.94	8.02	-	-	1.00	0.0124	5450.01	5452.12	5451.17	0.88	5453.00	5452.00	-	5453.00	5452.00	-
IN5	-	-	-	-	-	-	-	-	-	5453.00	5452.00	0.23	5453.24	5452.24	5454.96	5453.24	5452.24	5454.96
SDP15	24	14.60	275.46	12.26	-	-	2.33	0.0042	5452.46	5453.24	5452.24	-	5463.08	5460.75	-	5463.08	5460.75	5464.44
IN3	-	-	-	-	-	-	-	-	-	5463.08	5460.75	-	5463.08	5460.75	5464.44	5463.08	5460.75	5464.44
SDP16	18	7.30	28.03	11.23	0.59	1.04	1.96	-	5461.44	5462.71	5460.75	-	5463.57	5461.61	-	5463.57	5461.61	-
IN4	-	-	-	-	-	-	-	-	-	5463.57	5461.61	-	5463.57	5461.61	5466.53	5463.57	5461.61	5466.53
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5465.69	5461.80	-	5465.69	5461.80	-
SDMH5	-	-	-	-	-	-	-	-	-	-	-	-	5465.69	5461.80	-	5465.69	5461.80	5466.43
SDP2	24	12.40	85.47	12.27	0.71	1.26	2.34	-	5464.62	5465.68	5463.34	-	5468.84	5466.50	-	5468.84	5466.50	-
IN8	-	-	-	-	-	-	-	-	-	5468.84	5466.50	1.05	5469.89	5467.55	5471.88	5469.89	5467.55	5471.88
(Alternate HGL and EGL Used)	-	-	-	-	-	-	-	-	-	-	-	-	5468.08	5467.69	-	5468.08	5467.69	-
SDP1	18	6.20	28.01	5.06	0.98	0.96	0.40	0.0060	5467.96	5468.08	5467.69	0.17	5468.25	5467.85	-	5468.25	5467.85	-
IN7	-	-	-	-	-	-	-	-	-	5468.25	5467.85	-	5468.25	5467.85	5471.85	5468.25	5467.85	5471.85
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5465.65	5464.52	-	5465.65	5464.52	-
IN11	-	-	-	-	-	-	-	-	-	-	-	-	5465.65	5464.52	5467.76	5465.65	5464.52	5467.76
SDP33	18	5.50	23.04	11.86	0.46	0.90	2.19	-	5464.76	5466.70	5464.52	-	5466.97	5464.78	-	5466.97	5464.78	-
IN9	-	-	-	-	-	-	-	-	-	5466.97	5464.78	-	5466.97	5464.78	5468.32	5466.97	5464.78	5468.32
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5475.17	5473.13	-	5475.17	5473.13	-
SDMH10	-	-	-	-	-	-	-	-	-	-	-	-	5475.17	5473.13	5481.96	5475.17	5473.13	5481.96
SDP22	18	5.40	30.97	7.51	0.64	0.89	0.88	-	5477.71	5477.73	5476.85	-	5478.23	5477.35	-	5478.23	5477.35	-
IN2	-	-	-	-	-	-	-	-	-	5478.23	5477.35	-	5478.23	5477.35	5481.96	5478.23	5477.35	5481.96
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	5453.00	5452.00	-	5453.00	5452.00	-
IN5	-	-	-	-	-	-	-	-	-	-	-	-	5453.00	5452.00	0.12	5453.12	5452.12	5454.96
SDP12	18	5.30	28.02	3.00	-	-	0.14	0.0025	5451.96	5453.12	5452.12	0.07	5453.19	5453.05	-	5453.19	5453.05	-
IN6	-	-	-	-	-	-	-	-	-	5453.19	5453.05	-	5453.19	5453.05	5455.36	5453.19	5453.05	5455.36

Table B:

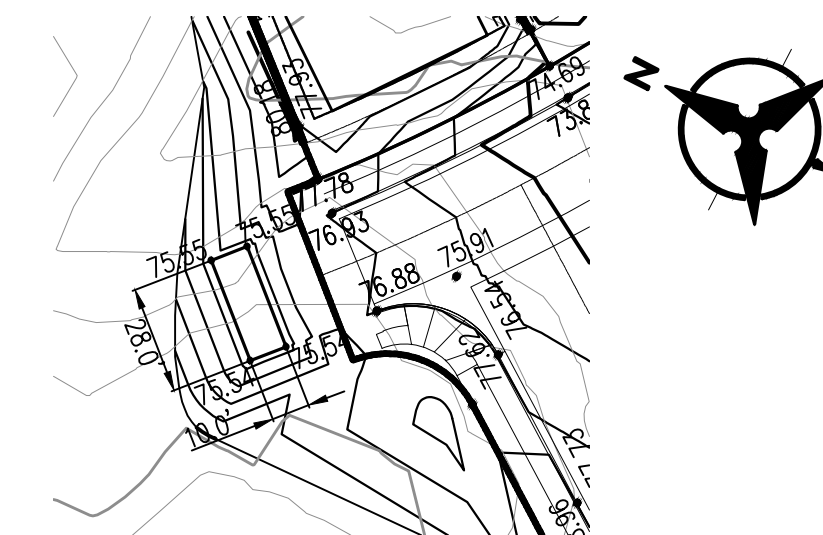
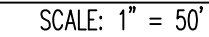
LOSSES								- LOSS_COEFFICIENTS							
Str_ID	Hf	Hb	Hstr	Hc	He	Hj	Total	Dstr	Ko	CD	Cd	Cq	Cp	Cb	K
Outfall	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP25	0.37	-	-	-	-	-	0.37	-	-	-	-	-	-	-	-
IN16	-	-	0.32	-	-	-	0.32	5.07	0.452	1.000	0.504	1.063	1.000	1.000	0.242
SDP24	0.08	-	-	-	-	-	0.08	-	-	-	-	-	-	-	-
SDMH11	-	-	0.73	-	-	-	0.73	4.97	1.526	1.000	0.531	0.506	1.000	1.000	0.410
SDP23	0.27	-	-	-	-	-	0.27	-	-	-	-	-	-	-	-
exSDMH1	-	-	0.33	-	-	-	0.33	6.56	1.526	1.000	0.627	0.530	1.000	1.000	0.507

							VP SD HGL02.txt						
SDP8	0.44	-	-	-	-	0.44	-	-	-	-	-	-	-
SDMH7	-	-	0.04	-	-	0.04	5.28	0.174	1.000	0.591	1.000	1.000	0.103
SDP6	0.40	-	-	-	-	0.40	-	-	-	-	-	-	-
SDMH6	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP17	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
SDMH9	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP14	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
SDMH12	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP34	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
IN16	-	-	0.08	-	-	0.08	5.07	1.422	1.000	0.504	0.082	1.000	0.059
SDP28	0.10	-	-	-	-	0.10	-	-	-	-	-	-	-
IN14	-	-	-	-	-	-	1.55	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH11	-	-	0.37	-	-	0.37	4.97	1.526	1.000	0.531	0.256	1.000	0.208
SDP29	0.51	-	-	-	-	0.51	-	-	-	-	-	-	-
SDMH2	-	-	0.15	-	-	0.15	2.66	0.228	1.000	0.465	1.531	1.000	0.162
SDP3	1.75	-	-	-	-	1.75	-	-	-	-	-	-	-
SDMH3	-	-	0.60	-	-	0.60	2.68	0.704	1.000	0.596	1.000	1.000	0.420
SDP4	2.03	-	-	-	-	2.03	-	-	-	-	-	-	-
SDMH4	-	-	0.48	-	-	0.48	1.81	0.705	1.000	0.471	1.000	1.000	0.332
SDP5	3.17	-	-	-	-	3.17	-	-	-	-	-	-	-
SDMH5	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP32	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
IN11	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP31	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
IN12	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP30	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
IN10	-	-	-	-	-	-	0.49	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH11	-	-	0.33	-	-	0.33	4.97	0.178	1.000	0.531	1.951	1.000	0.184
SDP27	0.10	-	-	-	-	0.10	-	-	-	-	-	-	-
IN15	-	-	0.18	-	-	0.18	2.57	1.671	1.000	0.581	1.000	1.000	0.971
SDP26	0.10	-	-	-	-	0.10	-	-	-	-	-	-	-
IN13	-	-	-	-	-	-	2.05	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
exSDMH1	-	-	0.27	-	-	0.27	6.56	0.459	1.000	0.627	1.414	1.000	0.407
SDP20	4.87	-	-	-	-	4.87	-	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH12	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP7	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
SDMH10	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP21	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
IN1	-	-	-	-	-	-	0.54	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH2	-	-	0.25	-	-	0.25	2.66	1.553	1.000	0.465	0.366	1.000	0.264
SDP11	0.88	-	-	-	-	0.88	-	-	-	-	-	-	-
IN5	-	-	0.23	-	-	0.23	1.54	0.366	1.000	0.428	1.491	1.000	0.233
SDP15	1.15	-	-	-	-	1.15	-	-	-	-	-	-	-
IN3	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP16	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
IN4	-	-	-	-	-	-	0.59	-	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH5	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP2	-	-	-	-	-	SuperCrt	-	-	-	-	-	-	-
IN8	-	-	1.05	-	-	1.05	0.72	1.667	1.000	0.270	1.000	1.000	0.450
SDP1	0.17	-	-	-	-	0.17	-	-	-	-	-	-	-
IN7	-	-	-	-	-	-	1.25	-	-	-	-	-	-

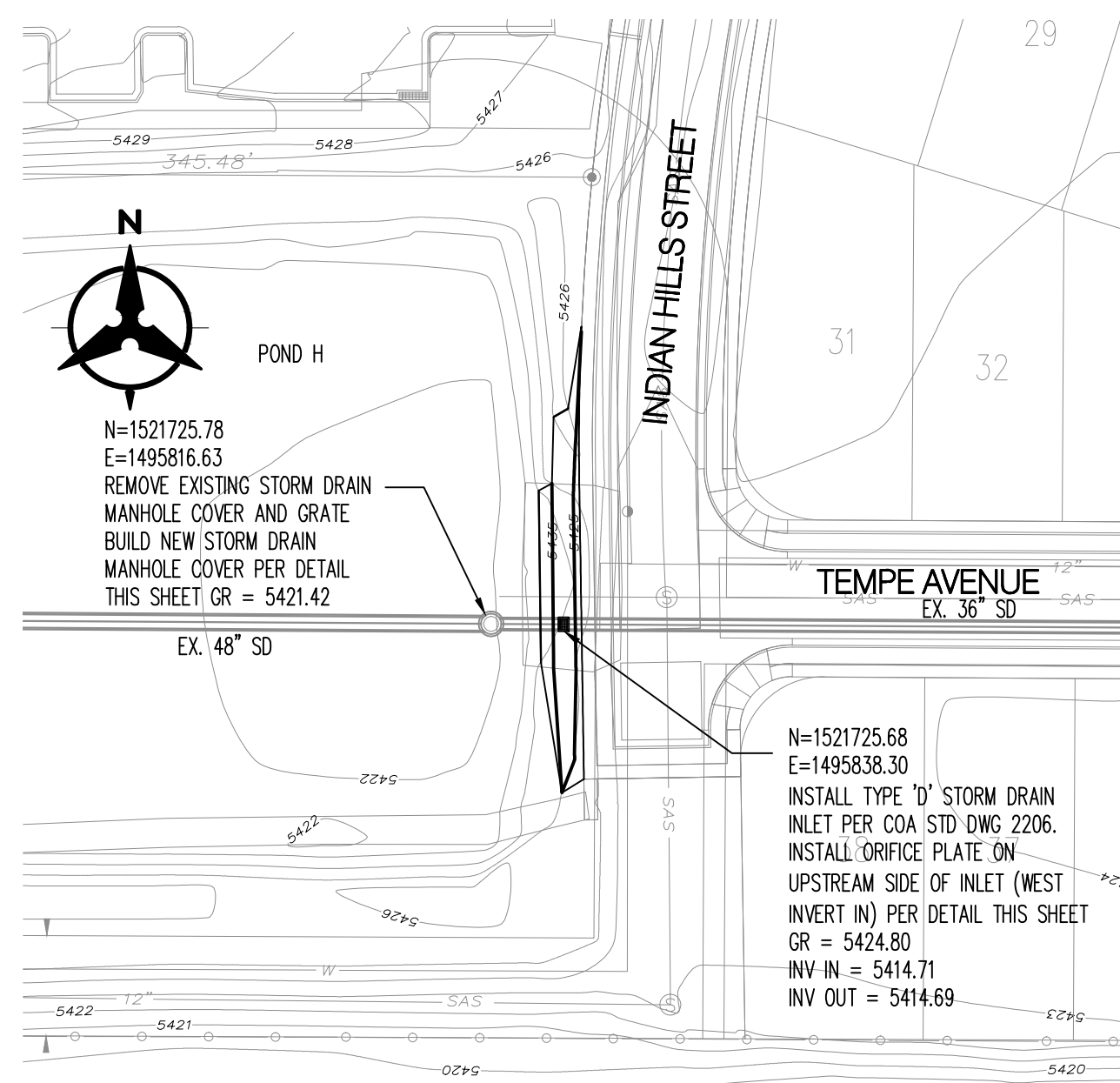
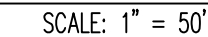
VP SD HGL02.txt													
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
IN11	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP33	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-
IN9	-	-	-	-	-	-	-	0.46	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
SDMH10	-	-	-	-	-	-	-	-	-	-	-	-	-
SDP22	-	-	-	-	-	-	SuperCrt	-	-	-	-	-	-
IN2	-	-	-	-	-	-	-	0.64	-	-	-	-	-
New Branch	-	-	-	-	-	-	-	-	-	-	-	-	-
IN5	-	-	0.12	-	-	-	0.12	1.54	1.670	1.000	0.428	0.163	1.000
SDP12	0.07	-	-	-	-	-	0.07	-	-	-	-	-	1.000
IN6	-	-	-	-	-	-	-	1.69	-	-	-	-	0.117



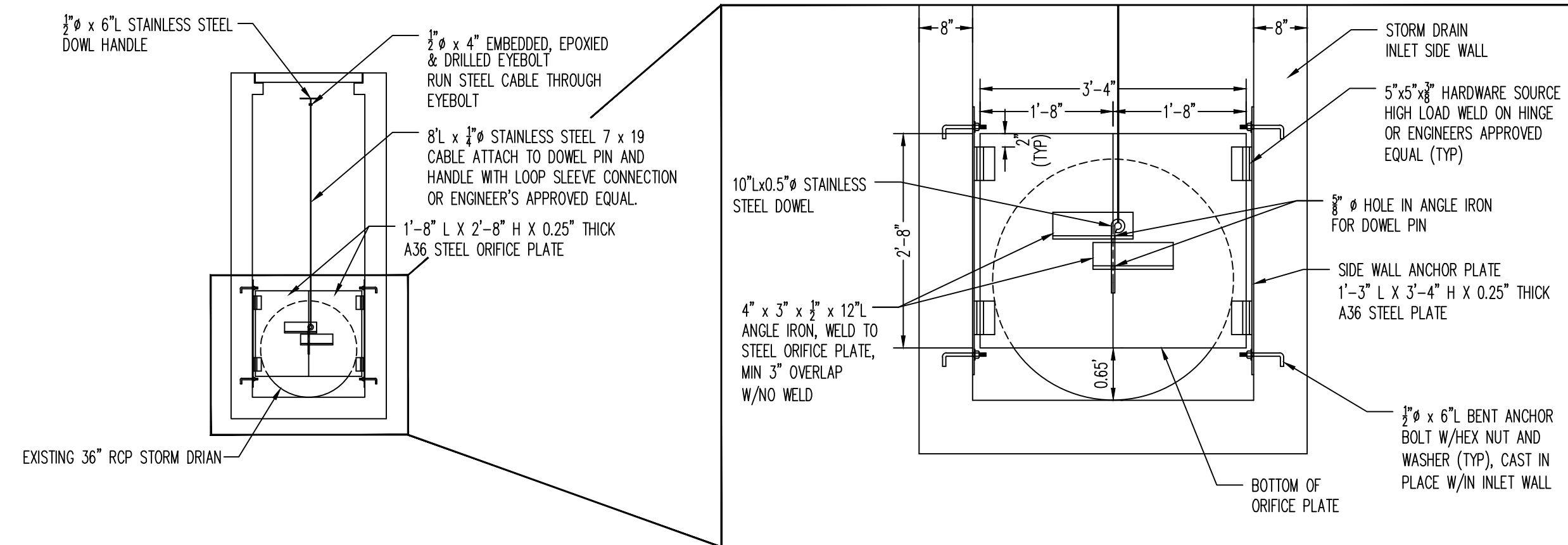
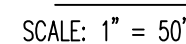
SANDMARK ROAD SEDIMENTATION POND



REDBLOOM ROAD SEDIMENTATION POND



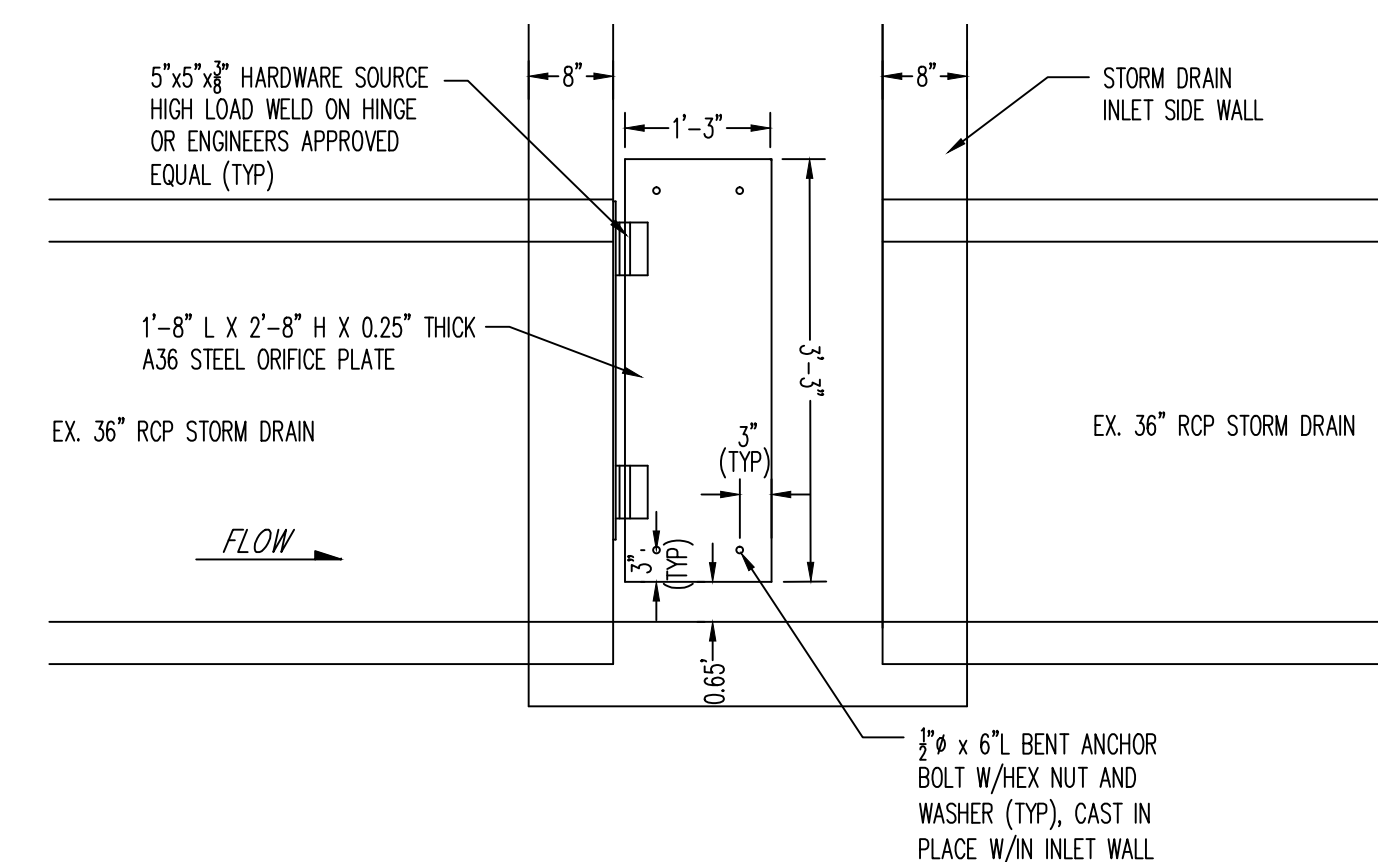
POND H OUTLET MODIFICATIONS



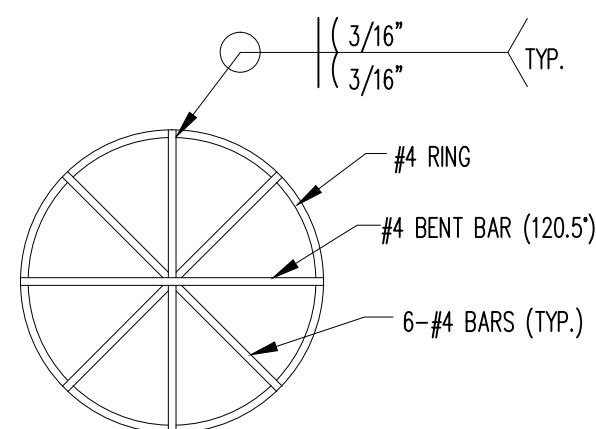
- NOTES:

1. FORCE ACTING ON ORIFICE PLATE
= 3,006 LBS.
2. CONTRACTOR TO ENSURE THAT
ORIFICE PLATES WILL SWING OPEN
AT MINIMUM OF 75° UPON
INSTALLATION AND THAT DOWEL
PIN CAN BE REMOVED UNDER LOAD

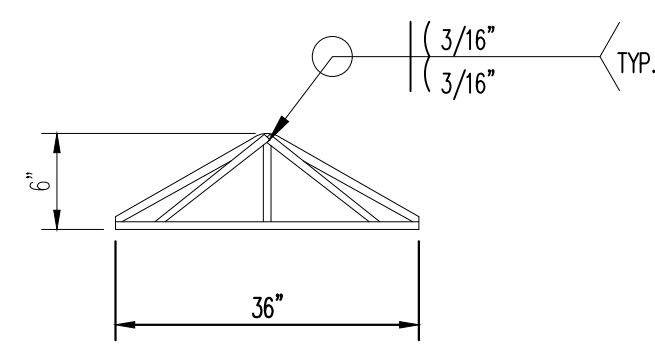
DROP INLET ORIFICE PLATE DETAIL



SIDE WALL STEEL ANCHOR PLATE

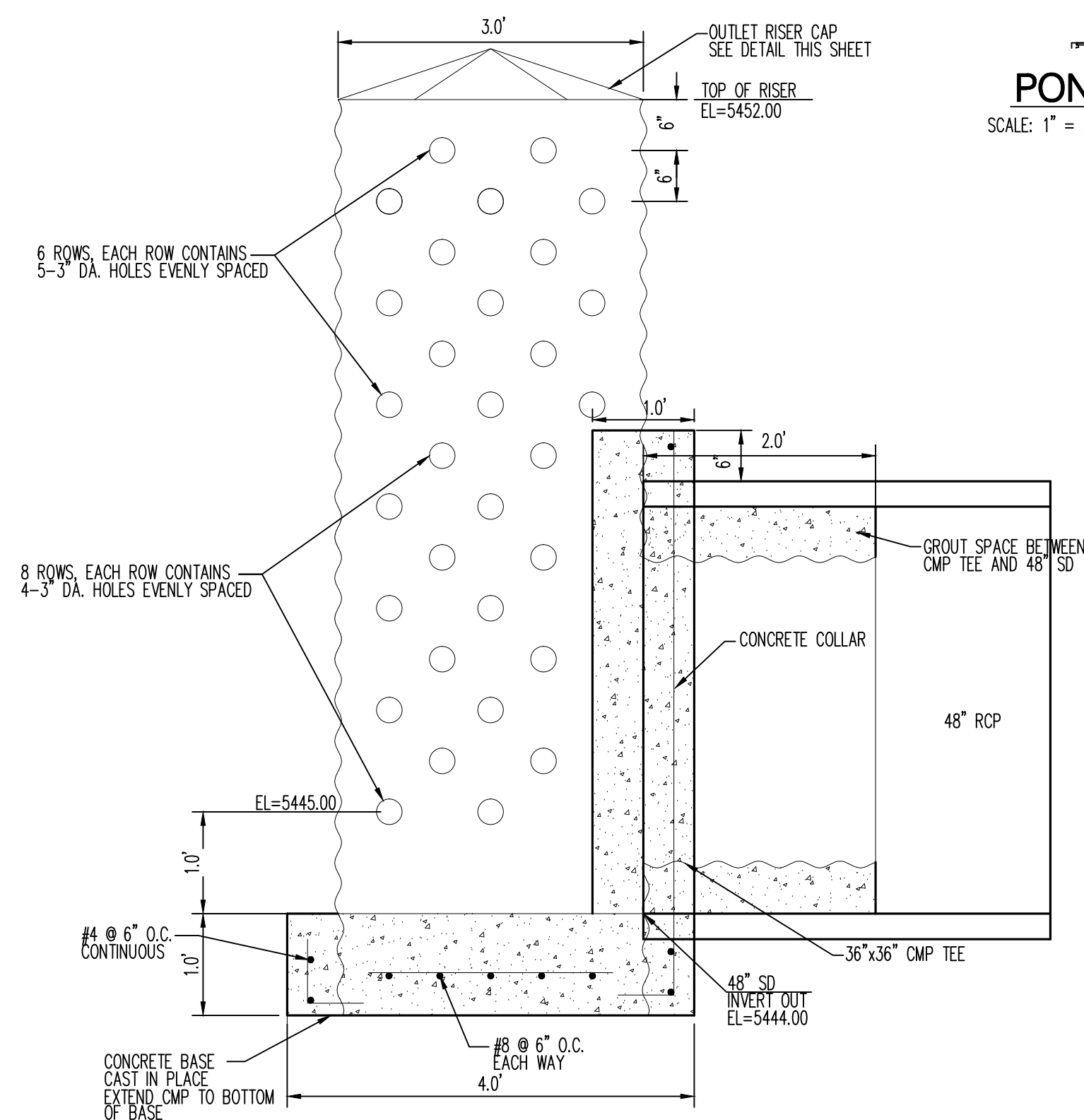


PLAN



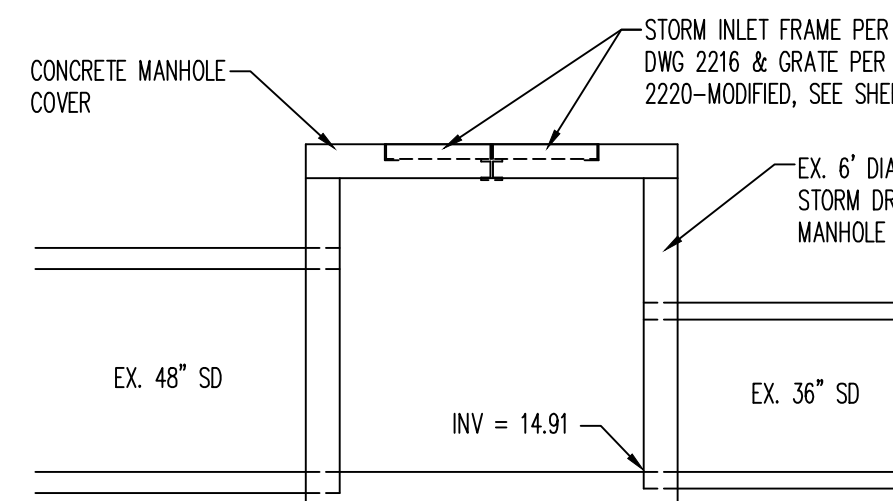
PROFILE

OUTLET RISER CAP DETAIL

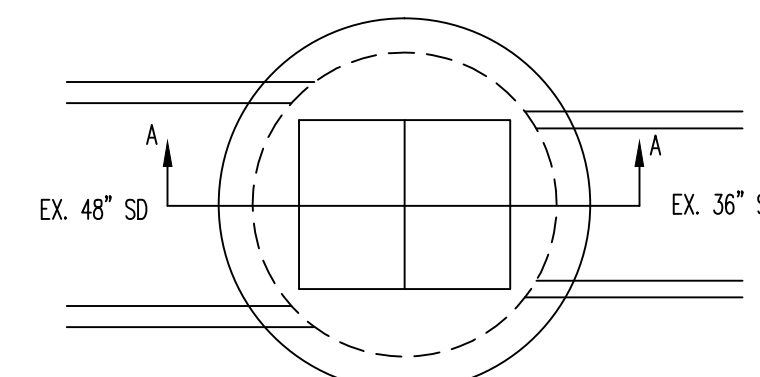


POND OUTLET RISER DETAIL

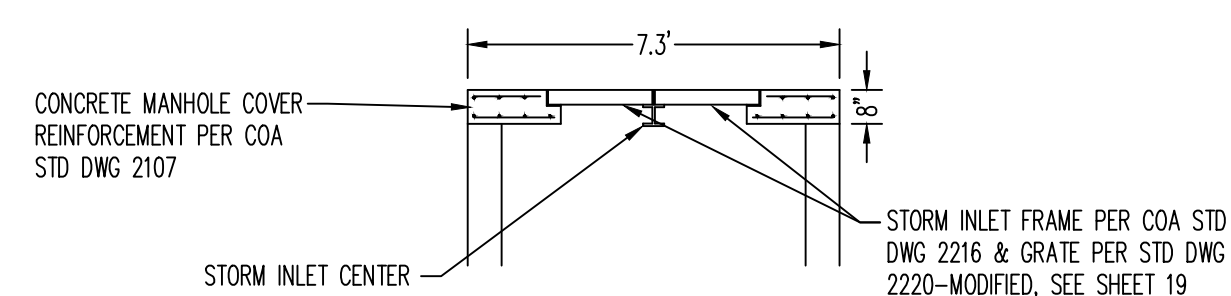
NOT TO SCALE



ELEVATION VIEW



PLAN VIEW



SECTION A-A

MANHOLE COVER
EXISTING MANHOLE MODIFICATIONS