DRAINAGE CALCULATIONS for CHALMERS COMMERCIAL

July 1996



- D. MARK GOODWIN & ASSOCIATES -

dma	D. Mark Goodwin & Associates, P.A.
	D. Mark Goodwin & Associates, P.A. Consulting Engineers and Surveyors

PROJECT CHAMERS COMMERCIAL
SUBJECT DISMAGE CALCS
BY GJK DATE 7-23-96
CHECKED DATE
SHEET OF
LEUISED 4-24-97
9-16-97

. THE SITE CONSISTS OF 6.9071 AC.

1.6669 IN RO RAUCHO (SEE APPENDIX "A") OFFSITE FLOWS
5.2402 AC IN ALBUQUERQUE

- * THIS SITE IS WITHIN THE "CABEZON CHANNEL CAPACITY ANALYSIS"
 WHICH WAS COMPLETED BY EARTERLING & ASSOCIATES, JUNE 1993. THE

 SITE IS ALLOWED OS CFS DISCHARGE PER ACRE. SITE IS NOT IN A 100 YR

 FLOOD PLAIN.
- . THE PROJECT WILL CONSIST OF 5 475. THIS REPORT WILL SET THE ALLOWABLE DISCHARGE FOR EACH LOT.
- EACH LOT WILL HAVE ITS OWN PONDING AREA WHICH WILL HAVE A CONTROVED DISCHARGE TO A NEW STORMONDIN IN THE AMERICAN ROAD.

 THIS STORMONDIN WILL DISCHARGE INTO AN UNDERGROUND PIPE (STOREGE)

 AND DISCHARGE TO NM 528 ROW.
- · A PORTION OF THE LOTS ALONG 528 WILL HAVE DIRECT DISCHARGE TO 528

FIND ALLOWABLE DISCHARGE FOR SITE

Q=6.907/ x 0.5 = 3.4536 CFS

FIND DIRECT DISCHARGE ALONG 528

AREA = 9494 SF = 0.21795 AC = 0.000341 SM.

2/60 LUTZ 3900 LUT3

3434 LOT1

USE TYPE"C" FOR THIS AREA

9494

P, = 1.95in

P6 = 2.20.0

Pz4 = 2.65 m

OT = 0.03333 HR

TP = 0.1333 HR

THIS DATA WILL BE USED FOR ALL AHYMO RUNS.

FROM OUTPUT SHEETS 7-9

Q=0.66 CFS

FIND ALLOWIBLE DISCHARGE OF OUTFALL POND

Q = 3.4536 -0.66

= 2.7936 US + 10.93 US = 13,72 US

See Sheet 3

PROJECT <u>CHALMERS</u>	COMMERCIAL
SUBJECT DALNAGE	CALCS
BY GJK	DATE 7-23-96
CHECKED	DATE
S	HEET_Z_OF
REVISED 4-24	

FIND DISCHARGE FOR AMERICAN ROAD

ROW = 0,8040 AC "B" = 0.1608 AC "D" = 0,643ZAC

DIRECT RUNOFF FROM LOTS 5 \$6 = 0.2295 AC = "C"

TOTAL = 1,0334 AC 15.56 & "B"

22.21 & "C"

62.23 90 "D"

POND FOR TOTAL SITE DISCHARGE WILL BE LOCATED

AT THE NE CORNER OF SITE

AREA = 0,2704 AC

100 % TYPE "B"

· FIND RUNOFF FOR EACH LOT LOT AREA AREA FOR RUNOFF CALCS / 0,0788 0.5000 0.4212 0,0496 . 2 0.5733 0.5237 1.0217 . 3 0.0895 0.9322 1.3343 0.0367 4 1,2976 0.7365 0.1928 0,5437

· SIZE POND FOR LOT 1,2 \$5 USE 4" ORIFICE A= 0.087 Q=0.6A J29h

 ELEV	AREA	STORAGE (AC-FT)	OUTFLOW
 Ö	1584	o	٥,٥
	2100	0.04	0.38
 Z	2688	0,10	0.57

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PROJECT CHALMERS COMMERCIAL SUBJECT DIMINAGE CALCS BY 65K DATE 7-23-96 CHECKED____ ____ DATE _____ SHEET_3_OF__ REVISED 4-24-97

· SIZE POND FOR LOT 3 14 USE 4" DRIFICE A= 0.087

Q=0.6AJZah

ELEV	ARGA	STORBUE (AC-FT)	OUTFLOW
. 0	1950	0	0.0
i	2556	0.05	0.38
Z	3234	0.17	0.57

· SIZE UNDERGROUND PIPE (SPRIGE) FOR DISCHARGE TO NM528

use /6"	ORIFICE	A= 1.39C	Q=0.6	Alzgh
ELEV	USE 282L	FOF 60"RCP	VOLUME	OUTFLOW
64	70 5 70 RE	ERUNOFF	6	0
65	•		0.02	3,88
66			0.05	7.76
67			0.08	10.27
68			0.11	12.27
69			0.13	13.99

WE WILL COMBINE THE TWO LOTS FROM RIO PUNCHO AND THE EXISTING CHURCH SITE WILL BE ALLOWED DIRECT DISCHARGE BELOWE IT WAS EXISTING WHEN THE "CABEZON CHANNEL CAPACITY ANALYSIS" WAS COMPLETED.

FROM APPENDIX "A"

LOT A-IA	LOT A-ZA	LOT A-34	ROW
CHURCH	WEST LOT	EAST LOT	
A= 3,3364 AC	A=0.5362 AC	1=0,400 AC	0,4764 AC
B = 42,85%	B= 15%	B= 15%	B=20%
C=13,76%	0= 85%	D= 65.%	0 - 80%
0 = 43,39%			

FROM SHEETS 10-25

Q=A-IA = 10,93 & QLOTI = 0,34 & S Q=A-2A = 0,42 & QLOTZ = 0,40 & ALB Q A-3A = 0,36 & QLOT3 = 0,47 & S QROW = 1,95 & QLOT4 = 0,53 & S QLOTS = 0.39 CFS Q ROW = 3.95 055

PEAK DISCHARGE = 13.67 UES MAX WATER SURFACE ELEUNTON: 68.81 THIS IS LESS THAN THE 13.72 US OF

ALLOWABLE .

SIZE EMERGENLY SPILLWAY

SPILLWAY WILL BE TWO SAL C INCETS IN RODOWAY

IF POND FILLS, THE FLOW WILL EXIT THE TWO INLETS BEFORE IT SPILLS OND ANY LOTS.



PROJECT CHAL	MERS COMMERCIAL
SUBJECT One	USGE CALCS
BY GSK	DATE 7-23-96
CHECKED	
_	SHEET_4_OF
REUISED	4-24-97
	6-26-97

• 5/2E /NCE-TS

ADD ONE DOUBLE "A" INCET ON EACH SIDE OF THE POLO Q = 3.95 + 1.95 = 5.90 CFS

S= 190 n=0.017

FIND Q ON EACH SIDE OF ROAD

Q = 58/2 = 2.95 OF

d = 0.32 wP = 12.07 A = 1.4454 V = 2.1434 P/S Q = 3.14 CS Q = 2.95 CF Q = 2.95

FROM SHEET 5

Q INLET= 2,45 UFS

2×2,45 = 4,90 cfs < 5,90 cfs

ADD A SINGLE CINCET DOWN STREAM ON BACH SIDE OF THE ROAD TO CATCH THE LAST 1.0 CFS.

• SINCE THE LOTS ARE NOT DEVELOPED AT THIS TIME IT WILL BE NECESSARY TO RETUNN THE RUNOFF FOR EACH LOT ON EACH LOT.

THIS WILL BE ACCOMPLISHED BY A ONE FOOT DEEP DEPRESSION ON EACH PAD.

• THE PONDS SIZED IN THIS REPORT WERE TO ESTABLISH THE ALLOWABLE DISCHARGE FOR EACH LOT.

LOT		DISCHARGE	(c=s)
/		0,34	
Z		0,40	
3.		0.47	
4		0,53	
5	2	0.39	
		2./3	

. SIZE STORMONAIN UP TO INLETS

TOTAL Q IN STORMANIN = 2.13 CFS +10.93+0.42+0.36 = 13.84 CFS

PRON NONO SHEET 6.

18" @ 1,7% WARIES 14 CFS

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994 RUN DATE (MON/DAY/YR) = 04/24/1997START TIME (HR:MIN:SEC) = 08:34:44 USER NO. = M_GOODWN.IO1 INPUT FILE = chal528.dat

START

TIME=0.0

***** HYDROGRAPH FOR CHALMERS COMMERCIAL 528 DISCHARGE

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.95 IN RAIN SIX=2.20 IN

RAIN DAY=2.65 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2

EAK AT 1.40 HR.

DT = .	033330 H	OURS	END T	IME =	5.9994	oo HOURS
.0000	.0009	.0018	.0028	.0037	.0047	.0057
.0068	.0078	.0089	.0101	.0112	.0124	.0136
.0149	.0161	.0175	.0188	.0203	.0217	.0233
.0248	.0265	.0282	.0300	.0319	.0338	.0359
.0380	.0403	.0427	.0481	.0539	.0600	.0733
.1028	.1484	.2138	.3031	.4204	.5700	.7563
. 9836	1.1946	1.2828	1.3572	1.4233	1.4835	1.5390
1.5904	1.6385	1.6836	1.7260	1.7660	1.8038	1.8396
1.8735	1.9056	1.9361	1.9651	1.9926	1.9981	2.0032
2.0081	2.0126	2.0170	2.0211	2.0251	2.0289	2.0325
2.0360	2.0394	2.0427	2.0459	2.0489	2.0519	2.0548
2.0576	2.0604	2.0630	2.0656	2.0681	2.0706	2.0730
2.0754	2.0777	2.0799	2.0821	2.0843	2.0864	2.0885
2.0905	2.0925	2.0945	2.0964	2.0983	2.1002	2.1021
2.1039	2.1056	2.1074	2.1091	2.1108	2.1125	2.1141
2.1158	2.1174	2.1189	2.1205	2.1220	2.1236	2.1251
2.1265	2.1280	2.1295	2.1309	2.1323	2.1337	2.1351
2.1364	2.1378	2.1391	2.1404	2.1417	2.1430	2.1443
2.1456	2.1468	2.1480	2.1493	2.1505	2.1517	2.1529
2.1541	2.1552	2.1564	2.1575	2.1587	2.1598	2.1609
2.1620	2.1631	2.1642	2.1653	2.1664	2.1674	2.1685
2.1695	2.1705	2.1716	2.1726	2.1736	2.1746	2.1756
2.1766	2.1776	2.1785	2.1795	2.1805	2.1814	2.1824
2.1833	2.1842	2.1852	2.1861	2.1870	2.1879	2.1888
2.1897	2.1906	2.1915	2.1923	2.1932	2.1941	2.1949
2.1958	2.1966	2.1975	2.1983	2.1992	2.2000	

COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.000341 SQ MI

PER A=00.00 B=0 C=100 D=0

TP=0.1333 HR MASS RAINFALL=-1

K/TP RATIO = .800969K = .106769HRTP = .133300HR SHAPE C NSTANT, N = 4.472154B = UNIT PEAK = .98617 CFS UNIT VOLUME = .9868 385.50 P60 = 1.9500AREA = .000341 SQ MI IA = .35000 INCHES INF = .83000 I CHES PER HOUR

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 1.04522 INCHES = .0190 ACRE-FEET
PEAK DISCHARGE RATE = .66 CFS AT 1.500 HOURS BASIN AREA = .0003 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 08:34:51

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**** HYDROGRAPH FOR DISCHARGE FROM CHALMERS POND

ID=2 CODE=1

***** INTO STORM DRAIN IN NM 528.

AINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=1.95 IN RAIN SIX=2.20 IN

RAIN DAY=2.65 IN DT=0.03333 HR

LOT 1

OMPUTE NM HYD

ID=1 HYD NO=101 AREA=0.000658 SQ MI PER A=0 PER B=15 PER C=15 PER D=70

TP=0.1333 HR MASS RAINFALL=-1

RINT HYD ID=1 CODE=1

*4" ORIFICE

ROUTE RESERVOIR

ID=2 HYD NO=102 INFLOW ID=1 CODE=24

OUTFLOW (CFS) STORAGE(AC-FT) ELEVATION(FT)
0.00 0.00 89.0
0.38 0.04 90.0
0.57 0.10 91.0

PRINT HYD

*LOT 2

OMPUTE NM HYD

ID=3 HYD NO=103 AREA=0.000818 SQ MI PER A=0 PER B=15 PER C=15 PER D=70

TP=0.1333 HR MASS RAINFALL=-1

RINT HYD ID=3 CODE=1

4" ORIFICE

ROUTE RESERVOIR

ID=4 HYD NO=104 INFLOW ID=3 CODE=24

OUTFLOW (CFS) STORAGE(AC-FT) ELEVATION(FT)
0.00 0.00 78.0
0.38 0.04 79.0
0.57 0.10 80.0

PRINT HYD

*LOT 3

OMPUTE NM HYD

ID=5 HYD NO=105 AREA=0.001457 SQ MI PER A=0 PER B=20 PER C=20 PER D=60

TP=0.1333 HR MASS RAINFALL=-1

"RINT HYD ID=5 CODE=1

4" ORIFICE

DOUBE DECEDA

ROUTE RESERVOIR ID=6 HYD NO=106 INFLOW ID=5 CODE=24

ID=4 CODE=1

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

 0.00
 0.00
 75.0

 0.38
 0.05
 76.0

 0.57
 0.12
 77.0

'RINT HYD

*LOT 4

COMPUTE NM HYD

ID=6 CODE=1

ID=7 HYD NO=107 AREA=0.002028 SQ MI PER A=0 PER B=20 PER C=20 PER D=60

TP=0.1333 HR MASS RAINFALL=-1

PRINT HYD ID=7 CODE=1

'4" ORIFICE

NOUTE RESERVOIR

ID=8 HYD NO=108 INFLOW ID=7 CODE=24

OUTFLOW (CFS)	STORAGE(AC-FT)	ELEVATION(FT)
0.00	0.00	83.0
0.38	0.06	84.0
0.57	0.14	85.0

```
RINT HYD
                    ID=8 CODE=1
*LOT 5
                   ID=9 HYD NO=109 AREA=0.000850 SQ MI
OMPUTE NM HYD
                    PER A=0 PER B=20 PER C=20 PER D=60
                    TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD
                    ID=9 CODE=1
4" ORIFICE
                    ID=10 HYD NO=110 INFLOW ID=9 CODE=24
ROUTE RESERVOIR
                    OUTFLOW (CFS) STORAGE(AC-FT) ELEVATION(FT)
                      0.00
                                       0.00
                                                          83.0
                      0.38
                                        0.04
                                                           84.0
                      0.57
                                        0.10
                                                           85.0
RINT HYD
                    ID=10 CODE=1
AMERICAN ROAD ROW
COMPUTE NM HYD
                    ID=11 HYD NO=111 AREA=0.001615 SQ MI
                    PER A=0 PER B=15.56 PER C=22.21 PER D=62.23
                    TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD
                    ID=11 CODE=1
*LOT A-1A
OMPUTE NM HYD
                    ID=12 HYD NO=112 AREA=0.005213 SQ MI
                    PER A=0 PER B=42.85 PER C=13.76 D=43.39
                    TP=0.1333 HR MASS RAINFALL=-1
RINT HYD
                    ID=12 CODE=1
LOT A-2A
COMPUTE NM HYD
                    ID=13 HYD NO=113 AREA=0.000838 SQ MI
                    PER A=0 PER B=15 PER C=0 D=85
                    TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD
                    ID=13 CODE=1
*4" ORIFICE
                    ID=14 HYD NO=114 INFLOW ID=13 CODE=24
ROUTE RESERVOIR
                    OUTFLOW (CFS)
                                      STORAGE (AC-FT) ELEVATION (FT)
                      0.00
                                        0.00
                                                           06.0
                      0.38
                                        0.04
                                                           07.0
                      0.57
                                        0.10
                                                           08.0
PRINT HYD
                    ID=14 CODE=1
LOT A-3A
COMPUTE NM HYD
                    ID=15 HYD NO=115 AREA=0.000634 SQ MI
                    PER A=0 PER B=15 PER C=0 PER D=85
                    TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD
                    ID=15 CODE=1
*4" ORIFICE
ROUTE RESERVOIR
                    ID=16 HYD NO=116 INFLOW ID=15 CODE=24
                    OUTFLOW (CFS)
                                     STORAGE(AC-FT) ELEVATION(FT)
                      0.00
                                        0.00
                                                           83.0
                                        0.04
                      0.38
                                                           84.0
                      0.57
                                        0.10
                                                           85.0 ,
PRINT HYD
                    ID=16 CODE=1
*RIO RANCHO ROW
COMPUTE NM HYD
                    ID=17 HYD NO=117 AREA=0.000744 SQ MI
                    PER A=0 PER B=20 PER C=0 PER D=80
                    TP=0.1333 HR MASS RAINFALL=-1
PRINT HYD
                    ID=17 CODE=1
*SITE POND
COMPUTE NM HYD
                    ID=18 HYD NO=118 AREA=0.000423 SQ MI
                    PER A=0 PER B=100 PER C=0 PER D=0
```

TP=0.1333 HR MASS RAINFALL=-1

ID=18 CODE=1

PRINT HYD

DD HYD PRINT HYD		HYD NO=119 CODE=1	ID=2 ID=4	
DD HYD PRINT HYD		HYD NO=120 CODE=1	ID=6 ID=8	
*				,
			ID=10 ID=11	
rRINT HYD	ID=2I	CODE=1		
DD HYD	TD=22	UVD NO-122	ID=12 ID=14	
RINT HYD	ID=22 ID=22		10-12 10-14	
*	10-22	CODE-1		
DD HYD	ID=23	HYD NO=123	ID=16 ID=17	
RINT HYD		CODE = 1		
*				
ADD HYD	ID=24	HYD NO=124	ID=18 ID=19	
RINT HYD	ID=24	CODE = 1		
ADD HYD	ID=25	HYD NO=124	ID=20 ID=21	
RINT HYD	ID=25	CODE = 1		
ADD HYD			ID=22 ID=23	
`RINT HYD	1D=26	CODE=1		
ADD HYD	TD=27	HYD NO=127	ID=24 ID=25	
PRINT HYD		CODE=1	20 21 20 20	
DD HYD	ID=28	HYD NO=128	ID=26 ID=27	
PRINT HYD	ID=28	CODE = 1		
•				ı
15" ORIFICE				
ROUTE RESERVOIR				
		. ,	STORAGE (AC-FT)	, ,
	0.00		0.00	64.0
	3.88		0.02	65.0
	7.76		0.05	66.0
	10.27		0.08	67.0
	12.27		0.11	68.0
'RINT HYD	13.99	CODE=1	0.13	69.0
FINISH	10-29	CODE-1		

START TIME=0.0

***** HYDROGRAPH FOR DISCHARGE FROM CHALMERS POND

***** INTO STORM DRAIN IN NM 528.

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN
RAIN ONE=1.95 IN RAIN SIX=2.20 IN
RAIN DAY=2.65 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 H DT = .033330 HOURS END TIME = 5.999400 HOURS .0000 .0009 .0018 .0028 .0037 .0047 .0057 .0068 .0078 .0089 .0101 .0112 .0124 .0136 .0149 .0161 .0175 .0188 .0203 .0217 .0233 .0248 .0265 .0282 .0300 .0319 .0338 .0380 .0403 .0427 .0481 .0539 .0600 .1028 .1484 .2138 .3031 .4204 .5700 .9836 1.1946 1.2828 1.3572 1.4233 1.4835 1.5390 1.5904 1.6385 1.6836 1.7260 1.7660 1.8038 1.8396 1.8735 1.9056 1.9361 1.9651 1.9926 1.9981 2.0032 2.0081 2.0126 2.0170 2.0211 2.0251 2.0289 2.0325 2.0360 2.0394 2.0427 2.0459 2.0489 2.0519 2.0548 2.0576 2.0604 2.0630 2.0656 2.0681 2.0706 2.0730
 2.0754
 2.0777
 2.0799
 2.0821
 2.0843
 2.0864
 2.0885

 2.0905
 2.0925
 2.0945
 2.0964
 2.0983
 2.1002
 2.1021

 2.1039
 2.1056
 2.1074
 2.1091
 2.1108
 2.1125
 2.1141
 2.1158 2.1174 2.1189 2.1205 2.1220 2.1236 2.1251 2.1265 2.1280 2.1295 2.1309 2.1323 2.1337 2.1351 2.1364 2.1378 2.1391 2.1404 2.1417 2.1430 2.1443 2.1456 2.1468 2.1480 2.1493 2.1505 2.1517 2.1529 2.1541 2.1552 2.1564 2.1575 2.1587 2.1598 2.1609
 2.1620
 2.1631
 2.1642
 2.1653
 2.1664
 2.1674
 2.1685

 2.1695
 2.1705
 2.1716
 2.1726
 2.1736
 2.1746
 2.1756

 2.1766
 2.1776
 2.1785
 2.1795
 2.1805
 2.1814
 2.1824
 2.1833 2.1842 2.1852 2.1861 2.1870 2.1879 2.1888 2.1897 2.1906 2.1915 2.1923 2.1932 2.1941 2.1949 2.1958 2.1966 2.1975 2.1983 2.1992 2.2000

*LOT 1 COMPUTE NM HYD

ID=1 HYD NO=101 AREA=0.000658 SQ MI PER A=0 PER B=15 PER C=15 PER D=70 TP=0.1333 HR MASS RAINFALL=-1

K=0.072649HR TP=0.133300HR K/TP RATIO=0.545000 SHAPE CONSTANT, N=UNIT PEAK=1.8185 CFS UNIT VOLUME=0.9933 B=526.28 P60=1.95 AREA=0.000461 SQ MI IA=0.10000 INCHES INF=0.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD-DT=0.033330

K= .119066HR TP= .133300HR K/TP RATIO = .893222 SHAPE CONSTANT, N= UNIT PEAK = .52296 CFS UNIT VOLUME = .9748 B= 353.14 P60 = 1.95 AREA = .000197 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD

PARTIAL HYDROGRAPH 101.00

RUNOFF VOLUME = 1.63537 INCHES = .0574 ACRE-FEET

PEAK DISCHARGE RATE = 1.68 CFS AT 1.500 HOURS BASIN AREA = .0007 SQ. MI.

*4" ORIFICE			
ROUTE RESERVOIR	ID=2 HYD $NO=102$	INFLOW ID=1 CODE=2	4
	OUTFLOW (CFS)	STORAGE (AC-FT)	ELEVATION (FT)
	0.00	0.00	89.0
	0.38	0.04	90.0
	0.57	0.10	91.0

* * * * * * * * * * * * * * * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	89.00	.000	.00
.80	.00	89.00	.000	.00
1.60	1.18	89.64	.026	.24
2.40	.05	89.78	.031	.30
3.20	.01	89.43	.017	.17
4.00	.00	89.24	.010	.09
4.80	.00	89.13	.005	.05
5.60	.01	89.08	.003	.03
6.40	.00	89.05	.002	.02
7.20	.00	89.02	.001	.01
8.00	.00	89.01	.001	.01
8.80	.00	89.01	.000	.00

PEAK DISCHARGE = .344 CFS - PEAK OCCURS AT HOUR 2.03

MAXIMUM WATER SURFACE ELEVATION = 89.906

MAXIMUM STORAGE = .0362 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=2 CODE=1

PARTIAL HYDROGRAPH 102.00

RUNOFF VOLUME = 1.63495 INCHES = .0574 ACRE-FEET

PEAK DISCHARGE RATE = .34 CFS AT 2.033 HOURS BASIN AREA = .0007 SQ. MI.

*LOT 2 COMPUTE NM HYD

COMPUTE NM HYD ID=3 HYD NO=103 AREA=0.000818 SQ MI
PER A=0 PER B=15 PER C=15 PER D=70
TP=0.1333 HR MASS RAINFALL=-1

K= .072649HR TP= .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N= UNIT PEAK = 2.2607 CFS UNIT VOLUME = .9941 B= 526.28 P60= 1.95 AREA = .000573 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .119066HR TP = .133300HR K/TP RATIO = .893222SHAPE CONSTANT, N = UNIT PEAK = .65012 CFS UNIT VOLUME = .9792 B = 353.14 P60 = 1.95 AREA = .000245 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=3 CODE=1

PARTIAL HYDROGRAPH 103.00

RUNOFF VOLUME = 1.63537 INCHES = .0713 ACRE-FEET PEAK DISCHARGE RATE = 2.08 CFS AT 1.500 HOURS BASIN AREA = .0008 SQ. MI.

*4" ORIFICE

ROUTE RESERVOIR	ID=4 HYD NO=104	INFLOW ID=3 CODE=2	4
	OUTFLOW (CFS)	STORAGE (AC-FT)	ELEVATION (FT)
	0.00	0.00	78.0
	0.38	0.04	79.0
	0.57	0.10	80.0

TIME	INFLOW	ELEV	VOLUME	OUTFLOW
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
.00	.00	78.00	.000	.00
.80	.00	78.00	.000	.00
1.60	1.46	78.80	.032	.30
2.40	.07	78.99	.040	.38
3.20	.01	78.55	.022	.21
4.00	.01	78.30	.012	.12
4.80	.01	78.17	.007	.06
5.60	.01	78.10	.004	.04
6.40	.00	78.06	.002	.02
7.20	.00	78.03	.001	.01
8.00	.00	78.02	.001	.01
8.80	.00	78.01	.000	.00

8.80 .00 78.01 .000 .00 PEAK DISCHARGE = .398 CFS - PEAK OCCURS AT HOUR 2.07

MAXIMUM WATER SURFACE ELEVATION = 79.093

.0456 AC-FT INCREMENTAL TIME= .033330HRS MAXIMUM STORAGE =

ID=4 CODE=1 PRINT HYD

PARTIAL HYDROGRAPH 104.00

RUNOFF VOLUME = 1.63501 INCHES = .0713 ACRE-FEET PEAK DISCHARGE RATE = .40 CFS AT 2.066 HOURS BASIN AREA = .0008 SQ. MI.

*LOT 3 COMPUTE NM HYD

ID=5 HYD NO=105 AREA=0.001457 SQ MI PER A=0 PER B=20 PER C=20 PER D=60 TP=0.1333 HR MASS RAINFALL=-1

K= .072649HR TP= .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N= UNIT PEAK = 3.4514 CFS UNIT VOLUME = .9961 B= 526.28 P60 = 1.95 AREA = .000874 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K= .119066HR TP= .133300HR K/TP RATIO = .893222 SHAPE CONSTANT, N = UNIT PEAK = 1.5440 CFS UNIT VOLUME = .9921 B = 353.14 P60 = 1.95 AREA = .000583 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=5 CODE=1

PARTIAL HYDROGRAPH 105.00

RUNOFF VOLUME = 1.52475 INCHES = .1185 ACRE-FEET

PEAK DISCHARGE RATE = 3.50 CFS AT 1.500 HOURS BASIN AREA = .0015 SQ. MI.

*4" ORIFICE			
ROUTE RESERVOIR	ID=6 HYD NO=106	INFLOW ID=5 CODE=2	4
	OUTFLOW (CFS)	STORAGE (AC-FT)	ELEVATION (FT)
	0.00	0.00	75.0
	0.38	0.05	76.0
	0.57	0 12	77 0

* * * * * * * * * * * * * * * * *

TIME	INFLOW	ELEV	VOLUME	OUTFLOW
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
.00	.00	75.00	.000	.00
.80	.00	75.00	.000	.00
1.60	2.49	76.06	.054	.39
2.40	.12	76.41	.079	.46
3.20	.01	76.05	.054	.39
4.00	.01	75.66	.033	. 25
4.80	.01	75.41	.020	. 15
5.60	.01	75.26	. 013	.10
6.40	.00	75.16	.008	.06
7.20	.00	75.10	.005	.04
8.00	.00	75.06	.003	.02
8.80	.00	75.04	.002	.01
9.60	.00	75.02	.001	.01
10.40	.00	75.01	.001	.01
11.20	.00	75.01	.000	.00

PEAK DISCHARGE = .473 CFS - PEAK OCCURS AT HOUR 2.10

MAXIMUM WATER SURFACE ELEVATION = 76.488

MAXIMUM STORAGE = .0842 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=6 CODE=1

PARTIAL HYDROGRAPH 106.00

RUNOFF VOLUME = 1.52454 INCHES = .1185 ACRE-FEET

PEAK DISCHARGE RATE = .47 CFS AT 2.100 HOURS BASIN AREA = .0015 SQ. MI.

*LOT 4

COMPUTE NM HYD ID=7 HYD NO=107 AREA=0.002028 SQ MI PER A=0 PER B=20 PER C=20 PER D=60 TP=0.1333 HR MASS RAINFALL=-1

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .119066HR TP = .133300HR K/TP RATIO = .893222SHAPE CONSTANT, N = UNIT PEAK = 2.1491 CFS UNIT VOLUME = .9941 B = 353.14 P60 = 1.95

AREA = .000811 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=7 CODE=1

PARTIAL HYDROGRAPH 107.00

RUNOFF VOLUME = 1.52475 INCHES = .1649 ACRE-FEET PEAK DISCHARGE RATE = 4.87 CFS AT 1.500 HOURS BASIN AREA = .0020 SQ. MI.

*4" ORIFICE

ROUTE RESERVOIR	ID=8 HYD NO=108	INFLOW ID=7 CODE=2	4
	OUTFLOW (CFS)	STORAGE (AC-FT)	ELEVATION (FT)
	0.00	0.00	83.0
	0.38	0.06	84.0
	0.57	0 14	85 O

TIME	INFLOW	ELEV	VOLUME	OUTFLOW		
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)		
.00	.00	83.00	.000	.00		
.80	.00	83.00	.000	.00		
1.60	3.47	84.21	.076	.42		
2.40	.17	84.74	.119	.52		
3.20	.02	84.39	.091	.45		
4.00	.01	84.05	.064	.39		
4.80	.01	83.71	.043	.27		
5.60	.02	83.48	.029	.18		
6.40	.00	83.33	.020	.12		
7.20	.00	83.22	.013	.08		
8.00	.00	83.14	.009	.05		
8.80	.00	83.09	.006	.04		
9.60	.00	83.06	.004	.02		
10.40	.00	83.04	.002	.02		
11.20	.00	83.03	.002	.01		
12.00	.00	83.02	.001	.01		
12.80	.00	83.01	.001	.00		
PEAK DISCHA	RGE =	.531	CFS - PEAK	OCCURS AT	HOUR	2.13

84.797 MAXIMUM WATER SURFACE ELEVATION = MAXIMUM STORAGE = .1238 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=8 CODE=1

PARTIAL HYDROGRAPH 108.00

RUNOFF VOLUME = 1.52446 INCHES = .1649 ACRE-FEET PEAK DISCHARGE RATE = .53 CFS AT 2.133 HOURS BASIN AREA = .0020 SQ. MI.

*LOT 5 COMPUTE NM HYD

ID=9 HYD NO=109 AREA=0.000850 SQ MI PER A=0 PER B=20 PER C=20 PER D=60 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = UNIT PEAK = 2.0135 CFS UNIT VOLUME = .9933 B = 526.28 P60 = 1.95 AREA = .000510 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .119066HR TP = .133300HR K/TP RATIO = .893222 SHAPE CONSTANT, N = ...UNIT PEAK = .90074 CFS UNIT VOLUME = .9858 B = 353.14 P60 = 1.95 AREA = .000340 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD

ID=9 CODE=1

PARTIAL HYDROGRAPH 109.00

RUNOFF VOLUME = 1.52475 INCHES = .0691 ACRE-FEET PEAK DISCHARGE RATE = 2.05 CFS AT 1.500 HOURS BASIN AREA = .0009 SQ. MI.

ROUTE RESERVOIR	ID=10 HYD NO=110	INFLOW ID=9 CODE=	:24
	QUTFLOW (CFS)	STORAGE (AC-FT)	ELEVATION (FT)
	0.00	0.00	83.0
	0.38	0.04	84.0
	0.57	0.10	85.0

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	83.00	.000	.00
.80	.00	83.00	.000	.00
1.60	1.46	83.78	.031	.30
2.40	.07	83.95	.038	.36
3.20	.01	83.53	.021	.20
4.00	.00	83.29	.012	.11
4.80	.01	83.16	.006	.06
5.60	.01	83.09	.004	.04
6.40	.00	83.06	.002	.02

7.20 .00 83.03 .001 .01 8.00 .00 83.02 .001 .01 8.80 .00 83.01 .000 .00 PEAK DISCHARGE = .393 CFS - PEAK OCCURS AT HOUR 2.03

MAXIMUM WATER SURFACE ELEVATION = 84.069

MAXIMUM STORAGE = .0442 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=10 CODE=1

PARTIAL HYDROGRAPH 110.00

RUNOFF VOLUME = 1.52439 INCHES = .0691 ACRE-FEET PEAK DISCHARGE RATE = .39 CFS AT 2.033 HOURS BASIN AREA = .0009 SQ. MI.

*AMERICAN ROAD ROW

COMPUTE NM HYD ID=11 HYD NO=111 AREA=0.001615 SQ MI

PER A=0 PER B=15.56 PER C=22.21 PER D=62.23

TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = UNIT PEAK = 3.9679 CFS UNIT VOLUME = .9965 B = 526.28 P60 = 1.95 AREA = .001005 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOURRUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .116901HR TP = .133300HR K/TP RATIO = .876979 SHAPE CONSTANT, N = UNIT PEAK = 1.6400 CFS UNIT VOLUME = .9926 B = 358.39 P60 = 1.95

AREA = .000610 SQ MI IA = .41180 INCHES INF = 1.00303 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=11 CODE=1

PARTIAL HYDROGRAPH 111.00

RUNOFF VOLUME = 1.56070 INCHES = .1344 ACRE-FEET PEAK DISCHARGE RATE = 3.95 CFS AT 1.500 HOURS BASIN AREA = .0016 SQ. MI.

*LOT A-1A

ID=12 HYD NO=112 AREA=0.005213 SQ MI COMPUTE NM HYD PER A=0 PER B=42.85 PER C=13.76 D=43.39

TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N =UNIT PEAK = 8.9302 CFS UNIT VOLUME = .9981 B = 526.28 P60 = 1.95 AREA = .002262 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .125386HR TP = .133300HR K/TP RATIO = .940628 SHAPE CONSTANT, N = UNIT PEAK = 7.5000 CFS UNIT VOLUME = .9985 B = 338.78 P60 = 1.95

AREA = .002951 SQ MI IA = .46354 INCHES INF = 1.14791 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=12 CODE=1

PARTIAL HYDROGRAPH 112.00

RUNOFF VOLUME = 1.29392 INCHES = .3597 ACRE-FEET PEAK DISCHARGE RATE = 10.93 CFS AT 1.500 HOURS BASIN AREA = .0052 SQ. MI.

*LOT A-2A

COMPUTE NM HYD ID=13 HYD NO=113 AREA=0.000838 SQ MI

PER A=0 PER B=15 PER C=0 D=85 TP=0.1333 HR MASS RAINFALL=-1

K= .072649HR TP= .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = UNIT PEAK = 2.8122 CFS UNIT VOLUME = .9955 B = 526.28 P60 = 1.95 AREA = .000712 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .0333330

K = .131364HR TP = .133300HR K/TP RATIO = .985475 SHAPE CONSTANT, N = UNIT PEAK = .30774 CFS UNIT VOLUME = .9575 B = .326.34 P60 = 1.95 AREA = .000126 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .0333330

PRINT HYD ID=13 CODE=1

PARTIAL HYDROGRAPH 113.00

RUNOFF VOLUME = 1.77812 INCHES = .0795 ACRE-FEET

PEAK DISCHARGE RATE = 2.26 CFS AT 1.500 HOURS BASIN AREA = .0008 SQ. MI.

*4" ORIFICE

ROUTE RESERVOIR	ID=14 HYD NO=114	INFLOW ID=13 CODE	E=24
	OUTFLOW (CFS)	STORAGE(AC-FT)	ELEVATION(FT)
	0.00	0.00	06.0
	0.38	0.04	07.0
	0.57	0.10	08.0

* * * * * * * * * * * * * * * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	<i>VOLUME</i> (AC-FT)	OUTFLOW (CFS)
.00	.00	6.00	.000	.00
.80 m	.00	6.00	.000	.00
1.60	1.57	6.88	.035	.33
2.40	.08	7.09	.045	.40
3.20	.01	6.64	.026	.24
4.00	.01	6.35	.014	.13
4.80	.01	6.20	.008	.07
5.60	.01	6.11	.005	.04
6.40	.00	6.07	.003	.03
7.20	.00	6.04	.001	.01
8.00	.00	6.02	.001	.01
8.80	.00	6.01	.000	.00

PEAK DISCHARGE = .415 CFS - PEAK OCCURS AT HOUR 2.10 MAXIMUM WATER SURFACE ELEVATION = 7.186

MAXIMUM STORAGE = .0512 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=14 CODE=1

PARTIAL HYDROGRAPH 114.00

RUNOFF VOLUME = 1.77774 INCHES .0795 ACRE-FEET PEAK DISCHARGE RATE = .42 CFS AT 2.100 HOURS BASIN AREA = .0008 SQ. MI.

*LOT A-3A

COMPUTE NM HYD ID=15 HYD NO=115 AREA=0.000634 SQ MI PER A=0 PER B=15 PER C=0 PER D=85 TP=0.1333 HR MASS RAINFALL=-1

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .131364HR TP = .133300HR K/TP RATIO = .985475 SHAPE CONSTANT, N = UNIT PEAK = .23282 CFS UNIT VOLUME = .9403 B = 326.34 P60 = 1.95 AREA = .000095 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD

ID=15 CODE=1

PARTIAL HYDROGRAPH 115.00

RUNOFF VOLUME = 1.77812 INCHES = .0601 ACRE-FEET PEAK DISCHARGE RATE = 1.71 CFS AT 1.500 HOURS BASIN AREA = .0006 SQ. MI.

*4" ORIFICE

ROUTE	RESERVOIR	ID=16 HYD NO=116	INFLOW ID=15 CODE	=24 .
		OUTFLOW (CFS)	STORAGE (AC-FT)	ELEVATION(FT)
		0.00	0.00	83.0
		0.38	0.04	84.0
		0.57	0.10	85.0

TIME (HRS)	INFLOW (CFS)	$ELEV \ (FEET)$	$egin{aligned} extit{VOLUME} \ (extit{AC-FT}) \end{aligned}$	OUTFLOW (CFS)
.00	.00	83.00	.000	.00
.80	.00	83.00	.000	.00
1.60	1.19	83.67	.027	.25
2.40	.06	83.81	.032	.31
3.20	.01	83.46	.018	.17
4.00	.00	83.25	.010	.10
4.80	.01	83.14	.006	.05
5.60	.01	83.08	.003	. 0.3

6.40 .00 83.05 .002 .02 7.20 .00 83.03 .001 .01 8.00 .00 83.01 .001 .01 8.80 .00 83.01 .000 .00 PEAK DISCHARGE = .358 CFS - PEAK OCCURS AT HOUR 2.07

MAXIMUM WATER SURFACE ELEVATION = 83.943

MAXIMUM STORAGE = .0377 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=16 CODE=1

PARTIAL HYDROGRAPH 116.00

RUNOFF VOLUME = 1.77768 INCHES = .0601 ACRE-FEET PEAK DISCHARGE RATE = .36 CFS AT 2.066 HOURS BASIN AREA = .0006 SQ. MI.

*RIO RANCHO ROW

COMPUTE NM HYD

ID=17 HYD NO=117 AREA=0.000744 SQ MI PER A=0 PER B=20 PER C=0 PER D=80 TP=0.1333 HR MASS RAINFALL=-1

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .131364HR TP = .133300HR K/TP RATIO = .985475 SHAPE CONSTANT, N = UNIT PEAK = .36429 CFS UNIT VOLUME = .9642 B = 326.34 P60 = 1.95 AREA = .000149 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD

ID=17 CODE=1

PARTIAL HYDROGRAPH 117.00

RUNOFF VOLUME = 1.71509 INCHES = .0681 ACRE-FEET PEAK DISCHARGE RATE = 1.95 CFS AT 1.500 HOURS BASIN AREA = .0007 SQ. MI.

*SITE POND

COMPUTE NM HYD

ID=18 HYD NO=118 AREA=0.000423 SQ MI, PER A=0 PER B=100 PER C=0 PER D=0 TP=0.1333 HR MASS RAINFALL=-1

K = .131364HR TP = .133300HR K/TP RATIO = .985475 SHAPE CONSTANT, N = UNIT PEAK = 1.0356 CFS UNIT VOLUME = .9872 B = 326.34 P60 = 1.95AREA = .000423 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=18 CODE=1

PARTIAL HYDROGRAPH 118.00

RUNOFF VOLUME = .70656 INCHES = .0159 ACRE-FEET PEAK DISCHARGE RATE = .58 CFS AT 1.533 HOURS BASIN AREA = .0004 SQ. MI.

ID=19 HYD NO=119 ID=2 ID=4 ID=19 CODE=1 PRINT HYD

PARTIAL-HYDROGRAPH 119.00

RUNOFF VOLUME = 1.63230 INCHES = .1285 ACRE-FEET

PEAK DISCHARGE RATE = .74 CFS AT 2.033 HOURS BASIN AREA = .0015 SQ. MI.

ID=20 HYD NO=120 ID=6 ID=8 ADD HYD

PRINT HYD ID=20 CODE=1

PARTIAL HYDROGRAPH 120.00

RUNOFF VOLUME = 1.52303 INCHES = .2831 ACRE-FEET PEAK DISCHARGE RATE = 1.00 CFS AT 2.133 HOURS BASIN AREA = .0035 SQ. MI.

ID=21 HYD NO=121 ID=10 ID=11 ADD HYD

PRINT HYD ID=21 CODE=1

PARTIAL HYDROGRAPH 121.00

RUNOFF VOLUME = 1.54727 INCHES = .2034 ACRE-FEET

PEAK DISCHARGE RATE = 4.13 CFS AT 1.500 HOURS BASIN AREA = .0025 SQ. MI.

* ADD HYD ID=22 HYD NO=122 ID=12 ID=14

PRINT HYD ID=22 CODE=1

PARTIAL HYDROGRAPH 122.00

RUNOFF VOLUME = 1.36054 INCHES = .4391 ACRE-FEET

PEAK DISCHARGE RATE = 11.13 CFS AT 1.500 HOURS BASIN AREA = .0061 SQ. MI.

ID=23 HYD NO=123 ID=16 ID=17 ID=23 CODE=1 ADD HYD

PRINT HYD

PARTIAL HYDROGRAPH 123.00

RUNOFF VOLUME = 1.74223 INCHES = .1280 ACRE-FEET PEAK DISCHARGE RATE = 2.10 CFS AT 1.500 HOURS BASIN AREA = .0014 SQ. MI.

ID=24 HYD NO=124 ID=18 ID=19 ID=24 CODE=1 ADD HYD PRINT HYD ADD HYD

PARTIAL HYDROGRAPH 124.00

RUNOFF VOLUME = 1.42603 INCHES = .1444 ACRE-FEET

PEAK DISCHARGE RATE = 1.02 CFS AT 1.567 HOURS BASIN AREA = .0019 SQ. MI.

PARTIAL HYDROGRAPH 124.00

RUNOFF VOLUME = 1.53307 INCHES =

RUNOFF VOLUME = 1.53307 INCHES = .4865 ACRE-FEET PEAK DISCHARGE RATE = 4.68 CFS AT 1.533 HOURS BASIN AREA = .0060 SQ. MI.

ID=26 HYD NO=126 ID=22 ID=23 ADD HYD

PRINT HYD ID=26 CODE=1

PARTIAL HYDROGRAPH 126.00

RUNOFF VOLUME = 1.43134 INCHES = .5671 ACRE-FEET

PEAK DISCHARGE RATE = 13.23 CFS AT 1.500 HOURS BASIN AREA = .0074 SQ. MI.

ADD HYD ID=27 HYD NO=127 ID=24 ID=25

PRINT HYD ID=27 CODE=1

PARTIAL HYDROGRAPH 127.00

RUNOFF VOLUME = 1.50717 INCHES .6309 ACRE-FEET

PEAK DISCHARGE RATE = 5.67 CFS AT 1.533 HOURS BASIN AREA = .0078 SQ. MI.

ID=28 HYD NO=128 ID=26 ID=27 ID=28 CODE=1 ADD HYD

PRINT HYD

PARTIAL HYDROGRAPH 128.00

RUNOFF VOLUME = 1.47030 INCHES = 1.1980 ACRE-FEET

PEAK DISCHARGE RATE = 18.77 CFS AT 1.500 HOURS BASIN AREA = .0153 SQ. MI.

0.11

0.13

68.0 69.0

*15" ORIFICE

12.27

13.99

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	<i>VOLUME</i> (AC-FT)	OUTFLOW (CFS)		
0.0	00	64.00	000	0.0		
.00	.00	64.00	.000	.00		
.80	.00	64.00	.000	.00		
1.60	14.87	68.76	.125	13.58		
2.40	3.33	64.96	.019	3.72		
3.20	1.91	64.51	.010	1.98		
4.00	1.22	64.33	.007	1.26		
4.80	.77	64.20	.004	.80		
5.60	.51	64.13	.003	.52		
6.40	.30	64.08	.002	.31		
7.20	.18	64.05	.001	.18		
8.00	.11	64.03	.001	.11		
8.80	.07	64.02	.000	.07		
9.60	.04	64.01	.000	.04		
10.40	.02	64.01	.000	.02		
11.20	.01	64.00	.000	.01		
12.00	.01	64.00	.000	.01		
12.80	.01	64.00	.000	.01		
13.60	.00	64.00	.000	.00		
FAR DISCU	ADCE -	12 660 0	FC - DEAK	OCCUPS AT	פווחע	1 63

PEAK DISCHARGE = 13.669 CFS - PEAK OCCURS AT HOUR 1.63

MAXIMUM WATER SURFACE ELEVATION = 68.813

 ${\tt MAXIMUM\ STORAGE\ =}$.1263 AC-FT · INCREMENTAL TIME= .033330HRS

PRINT HYD ID=29 CODE=1

PARTIAL HYDROGRAPH 129.00

RUNOFF VOLUME = 1.47030 INCHES = 1.1980 ACRE-FEET

PEAK DISCHARGE RATE = 13.67 CFS AT 1.633 HOURS BASIN AREA = .0153 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 14:08:09