

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

July 12, 2023

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

**RE: 3815 Mourning Dove Place NW
Grading and Drainage Plans
Engineer's Stamp Date: 07/03/23
Hydrology File: G11D014D1**

Dear Mr. Soule:

Based upon the information provided in your submittal received 07/05/2023, the Grading and Drainage Plan is approved for Building Permit and Grading Permit. **Since this site has stem walls, a pad certification is not needed for this project.** Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PRIOR TO CERTIFICATE OF OCCUPANCY:

1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 3815 MOURNING DOVE **Building Permit #:** _____ **Hydrology File #:** _____
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: LOTS 54 P-1 OXBOW SUBDIVISION
City Address: 3815 MOURNING DOVE

Applicant: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: RIO GRANDE ENGINEERING **Contact:** DAVID SOULE
Address: PO BOX 93924 ALB NM 87199
Phone#: 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

TYPE OF DEVELOPMENT: _____ PLAT ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

Check all that Apply:

DEPARTMENT:
☒ HYDROLOGY/ DRAINAGE
_____ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:
_____ ENGINEER/ARCHITECT CERTIFICATION
_____ PAD CERTIFICATION
_____ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
_____ DRAINAGE REPORT
_____ DRAINAGE MASTER PLAN
_____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
_____ ELEVATION CERTIFICATE
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT (TCL)
_____ TRAFFIC IMPACT STUDY (TIS)
_____ STREET LIGHT LAYOUT
_____ OTHER (SPECIFY) _____
_____ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

☒ BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY
_____ PRELIMINARY PLAT APPROVAL
_____ SITE PLAN FOR SUB'D APPROVAL
_____ SITE PLAN FOR BLDG. PERMIT APPROVAL
_____ FINAL PLAT APPROVAL
_____ SIA/ RELEASE OF FINANCIAL GUARANTEE
_____ FOUNDATION PERMIT APPROVAL
_____ GRADING PERMIT APPROVAL
_____ SO-19 APPROVAL
_____ PAVING PERMIT APPROVAL
_____ GRADING/ PAD CERTIFICATION
_____ WORK ORDER APPROVAL
_____ CLOMR/LOMR
_____ FLOODPLAIN DEVELOPMENT PERMIT
_____ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

BASIN DATA

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Q100 GENERATED	V100 GENERATED	Q100 DISCHARGED
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
A	7377	0.169	0%	0.2955	18.0%	0.1298	29.0%	0.1646	53%	0.0603	0.53	975	0.24 TO B
B	7720	0.177	0%	0.0156	24.0%	0.0747	40.0%	0.0762	36%	0.0527	0.51	872	
REMAINING SITE	1839	0.042	0%	0.0000	20.0%	0.0084	62.0%	0.0262	18%	0.0076	0.12	175.00	0.12
TOTAL SITE HISTORIC	16936	0.389	72%	0.2799	12.0%	0.0467	16.0%	0.0622	0%	0.0000	0.48	749	0.48
HISTORICAL													0.48
PROPOSED													0.40

THIS SITE IS PART OF THE OXBOW SUBDIVISON. BASED UPON SUBDIVISION RULES, THE SITE MUST MIMIC PREDEVELOPMENT HYDROLOGY RELATED TO PEAK DISCHARGE RATES. THE SITE CONTAINS THREE DRAINAGE BASINS, BASIN A CONTAINS THE SOUTHERN PORTION OF STRUCTURE AND LOT. THIS BASIN DISCHARGES 0.53 CFS TO A POND. THIS DETENTION POND THROTTLES THE FLOW BY THE CONSTRUCTION OF A 4" OUTLET PIPE TO POND B. BASIN B CONTAINS THE NORHTERN PORTION OF THE SITE AND DRAINS TO A POND THAT RESTRICTS THE COMBINED DISCHARGE OF BASIN A AND B UTILIZING A 4" OUTLET PIPE. THE FRONT PORTION OF THE SITE THAT DOES NOT GET CAPTURED BY THE PONDS DISCHARGE .12 CFS TO THE RIGHT OF WAY. THE PONDS WERE MODELLED UTILIZING AHYMO AND THE PEAK DISCHARGE OF 0.40 CFS IS LESS THAN THE EXISTING DISCAHRGE OF 0.48 CFS. THIS SITE CONFORMS TO BOTH THE CITY OF ALBUQUERQUE DRAINAGE STANDARDS AS WELL AS THE OXBOW DEVELOPMENT GUIDLINES. REFERENCE SHEET 2 FOR AHYMO MODEL AND POND STAGE-STORAGE CALCULATION

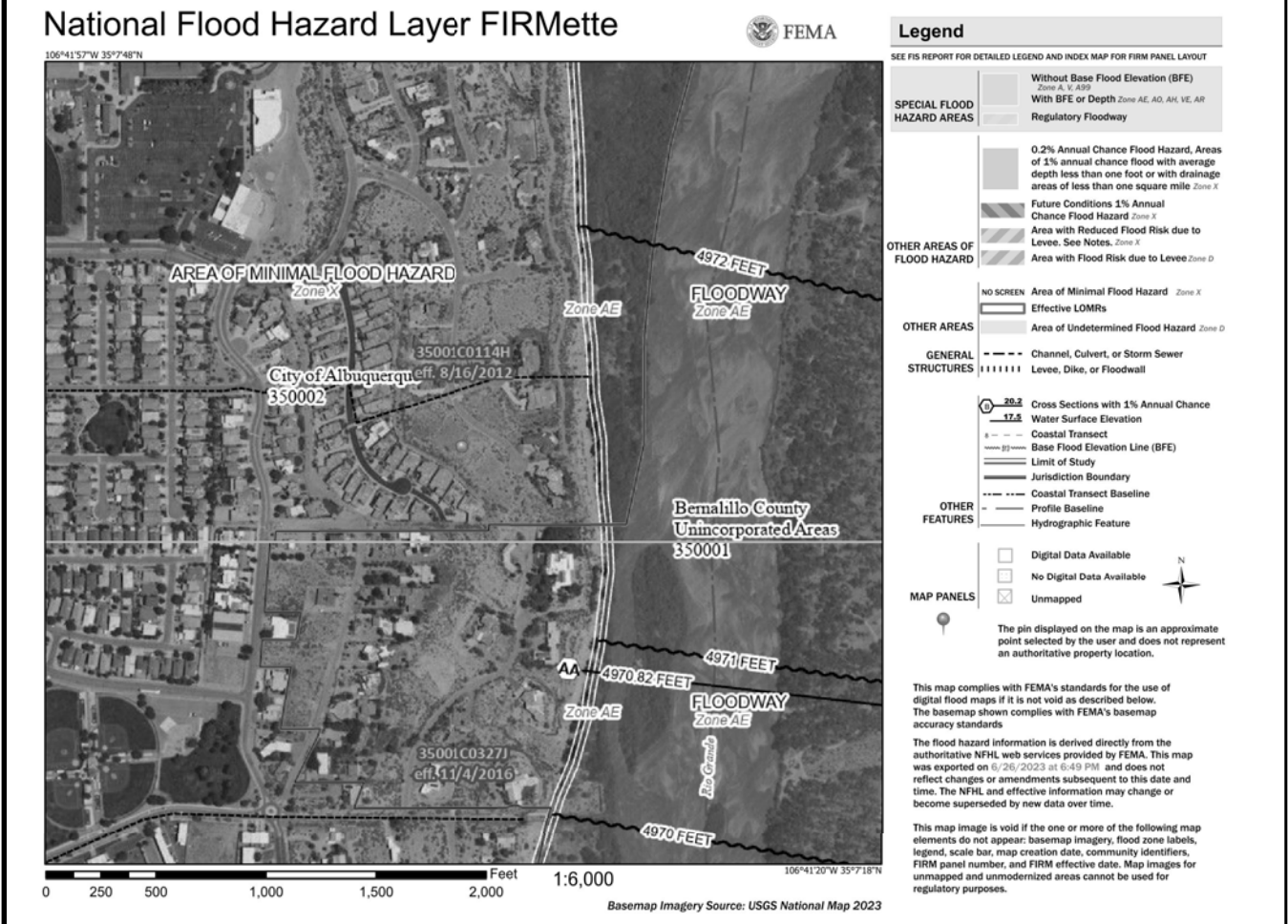


EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP: G-11-Z



FIRM MAP:

LEGAL DESCRIPTION:

CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

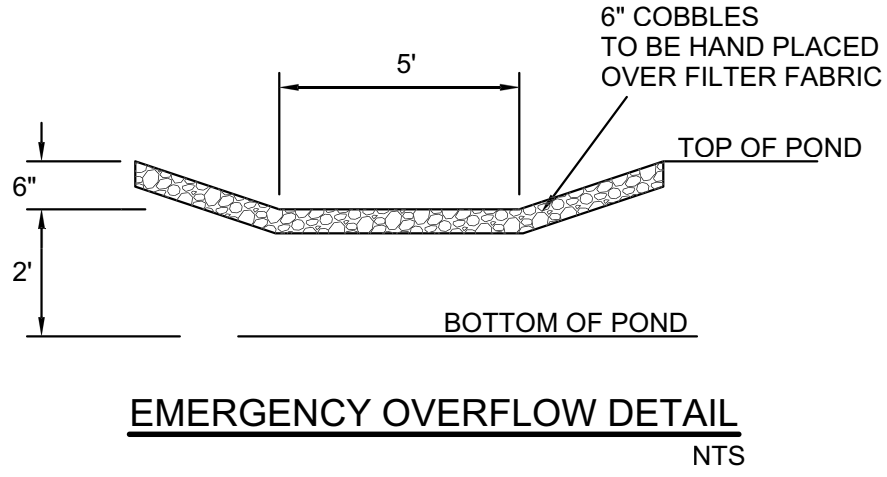
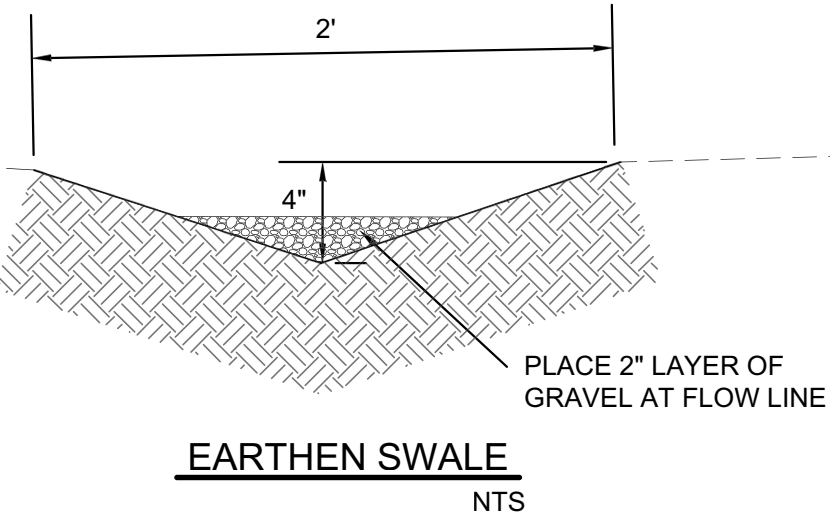
NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

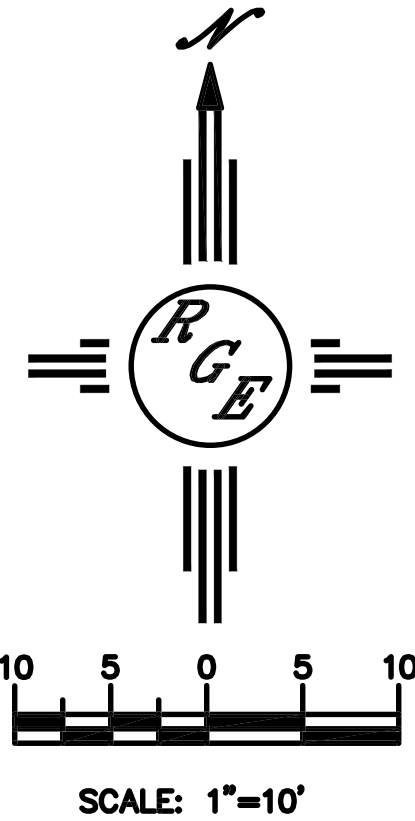
-----XXXX-----	EXISTING CONTOUR
-----XXXX-----	EXISTING INDEX CONTOUR
-----XXXX-----	PROPOSED CONTOUR
-----XXXX-----	PROPOSED INDEX CONTOUR
• XXXXX	EXISTING SPOT ELEVATION
• XXXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
-----<-----	PROPOSED EARTHEN SWALE
-----	PROPOSED RETAINING WALL
-----	PROPOSED CONCRETE
-----	PROPOSED PONDING
-----	PROPOSED NATURAL ROCK LANDSCAPE WALL

CONSTRUCT ALL SWALES AND EROSION PROTECTION (SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.



CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



ENGINEER'S SEAL	3815 MOURNING DOVE	DRAWN BY DEM
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER		DATE 6-27-23
7/3/23	GRADING AND DRAINAGE PLAN	3815 MOURNING DOVE.DWG
DAVID SOULE P.E. #14522		SHEET # C1
		JOB #

BASIN DATA

Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Q100 GENERATED	V100 GENERATED	Q100 DISCHARGED
			%	(acres)	%	(acres)	%	(acres)	%	(acres)			
A	7377	0.169	0%	0.2955	18.0%	0.1298	29.0%	0.1646	53%	0.0603	0.53	975	0.24 TO B
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REMAINING SITE	1839	0.042	0%	0.0000	20.0%	0.0084	62.0%	0.0262	18%	0.0076	0.12	175.00	0.12
TOTAL SITE HISTORIC	16936	0.389	72%	0.2799	12.0%	0.0467	16.0%	0.0622	0%	0.0000	0.48	749	0.48
HISTORICAL												0.48	
PROPOSED												0.40	

STAGE/STORAGE VOLUME CALCULATIONS

POND A

ACTUAL ELEV.	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME CUMULATIVI	VOLUME AC-FT	Q (CFS)
51.25	0.00	127.00	0.00	0	0.0000	0.00
52.00	0.00	209.00	84.00	84.00	0.0019	0.00
53.75	1.50	457.00	832.50	916.50	0.0210	0.51

OUTFALL

Orifice Equation

$Q = CA \sqrt{2gH}$

$C = 0.6$
 $Diameter (in) = 4$
 $Area (ft^2) = 0.087266463$
 $g = 32.2$
 $H (ft) =$ Depth of water above center of orifice
 $Q (CFS) =$ Flow

VOLUME CALCULATIONS

pond b

ACTUAL ELEV.	DEPTH (FT)	AREA SF	VOLUME PER UNIT	VOLUME CUMULATIVI	VOLUME AC-FT	Q (CFS)
50.85	0.00	84.00	84.00	84	0.001	0.00
51.50	0.00	204.00	72.00	156.00	0.004	0.00
52.00	0.83	283.00	365.25	521.25	0.012	0.38
52.85	1.68	283.00	424.50	945.75	0.022	0.54

Orifice Equation

$Q = CA \sqrt{2gH}$

43.56

$C = 0.6$
 $Diameter (in) = 4$
 $Area (ft^2) = 0.087266463$
 $g = 32.2$
 $H (ft) =$ Depth of water above center of orifice
 $Q (CFS) =$ Flow

ARVMO OUT	
ARVMO PROGRAM (ARVMO-S4) - Version: S4.01A - Rel: 01a	
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*S ARVMO - DETENTION-MOURNING	
START POND ROUTING	
TIME=0.0 PUNCH CODE=0	
RAINFALL	
TYPE=2	
QUARTER=0.0	
SLOPE=17 IN DAY=2.49 IN DT=0.05 HR	
AZ - D1	
24 HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM &	
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0.2486 0.2857 0.3315 0.3926 0.4614 0.5402 0.7649	
1.0813 1.3037 1.4791 1.5672 1.6444 1.6999 1.7441	
1.7826 1.8108 1.8366 1.8580 1.8754 1.8909 1.9048	
1.9178 1.9294 1.9403 1.9510 1.9613 1.9698 1.9746	
2.0087 2.0124 2.0162 2.0198 2.0234 2.0264 2.0293	
2.0336 2.0369 2.0402 2.0433 2.0464 2.0495 2.0525	
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2.0753 2.0780 2.0806 2.0833 2.0859 2.0884 2.0910	
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2.1262 2.1284 2.1306 2.1327 2.1348 2.1369 2.1390	
2.1410 2.1431 2.1451 2.1471 2.1491 2.1511 2.1530	
2.1550 2.1569 2.1588 2.1607 2.1626 2.1645 2.1663	
2.1682 2.1700 2.1719 2.1738 2.1757 2.1776 2.1794	
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2.1876 2.1887 2.1896 2.1904 2.1913 2.1922 2.1931	
2.1940 2.1949 2.1958 2.1966 2.1974 2.1982 2.1991	
2.2002 2.2011 2.2020 2.2029 2.2038 2.2047 2.2056	
2.2064 2.2073 2.2082 2.2091 2.2100 2.2109 2.2118	
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2.3060 2.3069 2.3078 2.3087 2.3096 2.3104 2.3113	
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2.3620 2.3629 2.3638 2.3647 2.3656 2.3665 2.3673	
2.3682 2.3691 2.3700 2.3709 2.3718 2.3727 2.3736	
Page 1	

ARVMO OUT	
ARVMO PROGRAM (ARVMO-S4) - Version: S4.01A - Rel: 01a	
RUN DATE: 11/01/2023 - 07/03/2023	
START TIME (HR:MN:SEC) = 17:02:26 USER NO. = B:\ofc\and\Si\ngl\ca141963517	
INLET FILE = nra and S4\ngs\Owner\Desktop\2023	
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START POND ROUTING	
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RAINFALL	
TYPE=2	
QUARTER=0.0	
SLOPE=17 IN DAY=2.49 IN DT=0.05 HR	
AZ - D1	
24 HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE AREAS (NM &	
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0.2486 0.2857 0.3315 0.3926 0.4614 0.5402 0.7649	
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1.7826 1.8108 1.8366 1.8580 1.8754 1.8909 1.9048	
1.9178 1.9294 1.9403 1.9510 1.9613 1.9698 1.9746	
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2.3309 2.3318 2.3327 2.3336 2.3345 2.3353 2.3362	
2.3371 2.3380 2.3389 2.3398 2.3407 2.3416 2.3425	
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2.3620 2.3629 2.3638 2.3647 2.3656 2.3665 2.3673	
2.3682 2.3691 2.3700 2.3709 2.3718 2.3727 2.3736	
Page 1	

ARVMO OUT									
TIME		INFLOW		ELEV		VOLUME		OUTFLOW	
(HRS)		(CFS)		(FEET)		(AC-FT)		(CFS)	
0.00	0.00	0.00	51.50	0.004	0.00	0.004	0.00	0.00	0.00
0.15	0.00	0.00	51.50	0.004	0.00	0.004	0.00	0.00	0.00
0.30	0.00	0.00	51.50	0.004	0.00	0.004	0.00	0.00	0.00
0.45	0.00	0.00	51.50	0.004	0.00	0.004	0.00	0.00	0.00
0.60	0.00	0.00	51.50	0.004	0.00	0.004	0.00	0.00	0.00
0.75	0.00	0.00	51.50	0.004	0.00	0.004	0.00	0.00	0.00
0.90	0.01	0.00	51.50	0.004	0.00	0.004	0.00	0.00	0.00
1.05	0.03	0.51	51.52	0.004	0.00	0.004	0.00	0.00	0.00
1.20	0.05	0.51	51.54	0.005	0.00	0.005	0.00	0.00	0.00
1.35	0.14	0.51	51.60	0.005	0.04	0.005	0.04	0.00	0.00
1.50	0.57	0.51	51.84	0.009	0.09	0.009	0.09	0.00	0.00
1.65	0.61	32.25	51.00	0.016	0.38	0.016	0.38	0.00	0.00
1.80	0.45	32.25	51.00	0.016	0.38	0.016	0.38	0.00	0.00
1.95	0.30	32.39	51.00	0.016	0.38	0.016	0.38	0.00	0.00
2.10	0.23	32.32	51.00	0.015	0.14	0.015	0.14	0.00	0.00
2.25	0.17	32.22	51.00	0.016	0.38	0.016	0.38	0.00	0.00
2.40	0.13	32.21	51.00	0.012	0.24	0.012	0.24	0.00	0.00
2.55	0.09	32.01	0.011	0.00	0.20	0.011	0.20	0.00	0.00
2.70	0.07	31.91	0.009	0.00	0.16	0.009	0.16	0.00	0.00
2.85	0.05	51.83	0.008	0.00	0.13	0.008	0.13	0.00	0.00
3.00	0.04	79.70	0.007	0.00	0.10	0.007	0.10	0.00	0.00
3.15	0.03	51.70	0.007	0.00	0.08	0.007	0.08	0.00	0.00
3.30	0.02	68.60	0.008	0.00	0.08	0.008	0.08	0.00	0.00
3.45	0.02	51.62	0.008	0.00	0.05	0.008	0.05	0.00	0.00
3.60	0.01	62.60	0.008	0.00	0.05	0.008	0.05	0.00	0.00
3.75	0.01	51.57	0.005	0.00	0.02	0.005	0.02	0.00	0.00
3.90	0.01	51.56	0.005	0.00	0.02	0.005	0.02	0.00	0.00
4.05	0.01	51.55	0.005	0.00	0.02	0.005	0.02	0.00	0.00
4.20	0.01	51.54	0.004	0.00	0.01	0.004	0.01	0.00	0.00
4.35	0.01	51.53	0.004	0.00	0.01	0.004	0.01	0.00	0.00
4.50	0.01	51.53	0.004	0.00	0.01	0.004	0.01	0.00	0.00
4.65	0.01	51.52	0.004	0.00	0.01	0.004	0.01	0.00	0.00
4.80	0.00	51.52	0.004	0.00	0.01	0.004	0.01	0.00	0.00
4.95	0.00	51.52	0.004	0.00	0.01	0.004	0.01	0.00	0.00
5.10	0.00	51.52	0.004	0.00	0.01	0.004	0.01	0.00	0.00
5.25	0.00	51.51	0.004	0.00	0.01	0.004	0.01	0.00	0.00
5.40	0.00	51.51	0.004	0.00	0.01	0.004	0.01	0.00	0.00
5.55	0.00	51.51	0.004	0.00	0.01	0.004	0.01	0.00	0.00
5.70	0.01	51.51	0.004	0.01	0.01	0.004	0.01	0.00	0.00
5.85	0.01	51.51	0.004	0.01	0.01	0.004	0.01	0.00	0.00
6.00	0.01	51.51	0.004	0.01	0.01	0.004	0.01	0.00	0.00
6.15	0.00	51.51	0.004	0.00	0.01	0.004	0.01	0.00	0.00
6.30	0.00	51.51	0.004	0.00	0.00	0.004	0.00	0.00	0.00
PEAK DISCHARGE = 0.000 CFS PEAK CULVERT FLOW = 1.85									
MAXIMUM WATER SURFACE ELEVATION = 52.408									
MAXIMUM STORAGE = 0.000 AC-FT 100% TREATMENT TIME = 0.050000HRS									
*ADD OUTFALL OF POND-B TO REMAINING BASIN FOR TOTAL PROPOSED DISCHARGE									
ADD HYD D=18 HYD NO-108 1D 1-7 1D 11-4									
PRINT HYD 1D-8 CODE-3									
PARTIAL HYDROGRAPH 108.00									
FLOW	TIME	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS
0.0	0.000	0.00	0.0	4.950	0.0	9.900	0.0	14.850	0.0
0.0	15.800	0.0	0.0	5.100	0.0	10.050	0.0	15.000	0.0
0.0	19.950	0.0	0.0	5.200	0.0	10.200	0.0	15.150	0.0
0.0	0.300	0.0	0.0	5.400	0.0	10.350	0.0	15.300	0.0
0.0	20.100	0.0	0.0	5.550	0.0	10.500	0.0	15.450	0.0
0.0	22.250	0.0	0.0						
0.0	0.600	0.0	0.0						
0.0	20.400	0.0	0.0						

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