

DETENTION POND CHARACTERISTICS

POND	DRAIN AREA (AC)	Q100 IN (CFS)	Q100 OUT (CFS)	BYPASS Q (CFS)	MAX VOL (AC-FT)	V100 (AC-FT)	TOP ELEV	BOTTOM ELEV	WSL
OFF 1	127.9	37.00	9.25	2.44	2,302	6	0	5.80	
A5	166.8	110.22	15.56	4.61	4,004	551.6	5511	5515.59	
A6	191.4	81.87	13.81	4.72	3,114	5506	5500	5504.64	
D1	209.8	60.24	13.41	6.06	5,111	5475	5471	5474.29	
D	261.9	154.87	5.93	13.77	6,24	4,035	5436.9	5429.5	5435.03
F5	18.9	62.89	19.84	1.40	1,386	5426	5421	5425.97	
F	359.4	255.89	17.66	6.20	11,76	10,383	5424.3	5415.08	5423.56
G	391.8	93.49	7.00	17.61	7.21	2,955	5422.5	5415.67	5419.84
OFF 2	51.5	13.87	4.43	1.08	0.813	5	0	4.19	
B	12.8	34.80	3.36	0.99	0.990	5519	5515	5518.86	
E	137.0	198.83	6.80	15.50	7.52	6,008	5448	5441.6	5447.02
H	167.9	89.12	5.20	21.60	3.02	2,870	5422	5418.65	5421.89
J	57.9	141.18	6.05	26.34	7.94	3,771	5417	5414	5415.66
K	672.6	189.53	15.81	44.91	14.84	8,391	5409	5404.85	5407.79

ANALYSIS POINT PEAK FLOWS

ANALYSIS POINT	PEAK FLOW
AP-A5	15.56 CFS
AP-A6	15.81 CFS
AP-D1	13.41 CFS
AP-D	19.70 CFS
AP-F5	27.40 CFS
AP-F	29.84 CFS
AP-G	24.61 CFS
AP-E	22.30 CFS
AP-H	26.80 CFS
AP-J	32.39 CFS
AP-K	60.72 CFS

NOTE: Add 2.8 ft. to these elevations to convert from NGVD 29 to NAVD 88  
Greg Olson 4/14

DEVELOPED DRAINAGE BASIN CHARACTERISTICS

BASIN	AREA ACRES	A	B	C	D	Q CFS	VOL AC-FT
OFFSITE 1	127.87	100	0	0	0	37.00	4.426
A1	15.50	0	12.5	12.5	75	51.68	2.610
A2	8.52	0	33	33	34	23.43	0.960
A3	3.21	0	5	5	90	1.141	0.606
A4	7.59	0	7.5	7.5	83	26.39	1.381
A5	11.71	0	17	17	66	37.55	1.829
A6	16.97	0	19	19	62	53.44	2.558
A7	6.75	0	12.5	12.5	75	22.52	1.137
C	8.18	0	25	25	50	24.56	1.100
D1	11.69	0	19	19	62	36.60	1.752
D2	22.12	0	28.5	28.5	43	63.65	2.763
D3	3.71	0	5	5	90	13.18	0.701
D4	12.55	0	28.5	28.5	43	36.12	1.568
D5	8.75	0	23	23	54	26.55	1.224
D6	5.00	0	18	18	64	13.89	0.764
F1	14.13	0	21.7	21.8	56.5	43.39	2.025
F2	3.67	0	5	5	90	13.02	0.692
F3	22.80	0	21.7	21.8	56.5	70.02	3.267
F4	24.91	0	25	25	50	74.16	3.349
F5	11.85	0	12.5	12.5	75	39.52	1.996
F7	7.02	0	7.5	7.5	83	24.42	1.278
F8	5.00	0	18	18	64	15.89	0.764
G1	16.20	0	25	25	50	48.23	2.178
G2	16.19	0	25	25	50	48.22	2.177
OFFSITE 2	51.52	100	0	0	0	13.87	1.783
B1	12.79	0	34	34	32	34.80	1.407
B1.1	17.62	0	33	33	34	48.43	1.989
B1.2	3.76	0	33	33	34	10.36	0.424
B2	8.63	0	18	18	64	27.42	1.324
B3	7.66	0	25	25	50	22.82	1.030
B4	3.69	0	5	5	90	13.11	0.697
B5	28.17	0	29	29	42	80.67	3.482
B6	3.12	0	5	5	90	11.09	0.596
P	5.41	43	25	25	7	10.08	0.327
H1	11.68	0	16	16	68	57.78	1.856
H2	5.55	0	5	5	90	19.16	1.018
H3	7.62	0	20	20	60	23.79	1.128
J1	3.51	0	12.5	12.5	75	11.04	0.557
J2	10.92	0	12.5	12.5	75	36.40	1.839
J3	3.71	0	19	19	42	11.70	0.560
J4	6.44	0	12.5	12.5	75	21.47	1.084
J5	0.86	0	5	5	90	3.05	0.162
J6	2.70	0	5	5	90	9.59	0.510
J7	2.84	0	5	5	90	10.09	0.536
J8	5.78	0	70	30	0	12.31	0.355
J9	3.51	0	7.5	7.5	85	12.20	0.638
J10	4.02	0	5	5	90	14.27	0.759
J11	4.79	0	5	5	90	16.65	0.886
J12	9.08	100	0	0	0	10.65	0.314
K1	15.11	0	19	19	62	50.54	2.579
K2	9.51	0	15	15	70	20.39	1.337
K3	5.85	0	5	5	90	20.76	1.104
K4	8.58	0	70	30	0	18.28	0.527
K5	15.13	0	19	19	62	47.63	2.281
K6	1.41	0	5	5	90	5.01	0.266

C09-D001  
THE TRAILS Units 1-3  
Amended DMP  
Drainage Management Plan  
April 2014  
- Composite of Plates 1 & 2 -

4-14-14  
PROFESSIONAL

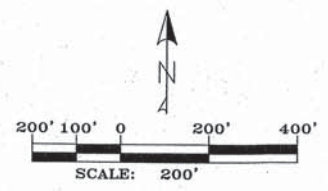
DATUM NAVD 1929

Thompson Engineering Consultants, Inc.  
P.O. BOX 65760  
ALBUQUERQUE, NM 87193  
PHONE: (505) 271-2199  
FAX: (505) 630-9248

- NOTES:
- STORM DRAIN SIZES BASED ON 100-YR, 24-HR STORM FLOWS. FUTURE PROJECTS MAY BE REQUIRED TO INCREASE STORM DRAIN SIZE BASED ON 100-YR, 6-HR STORM FLOWS.
  - THE INTENDED FUTURE CONTRIBUTION FROM THE TRAILS UNIT 4 IS 20 CFS TO THE MAXIMUM DOWNSTREAM DISCHARGE OF 62 CFS IN UNIVERSE BLVD.

LEGEND

- ANALYSIS POINT
- EXISTING STORM DRAIN
- FLOW DIRECTION
- FUTURE DEVELOPED STORM DRAIN



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(NGVD 29 to NAVD 88 conversion)  
ADD -2.82' to 2.84' (and) AD

AMENDMENT TO DMP FOR THE TRAILS UNITS 1, 2 AND 3  
PLATE 2

RECEIVED  
APR 14 2014  
DRAINAGE MANAGEMENT SECTION