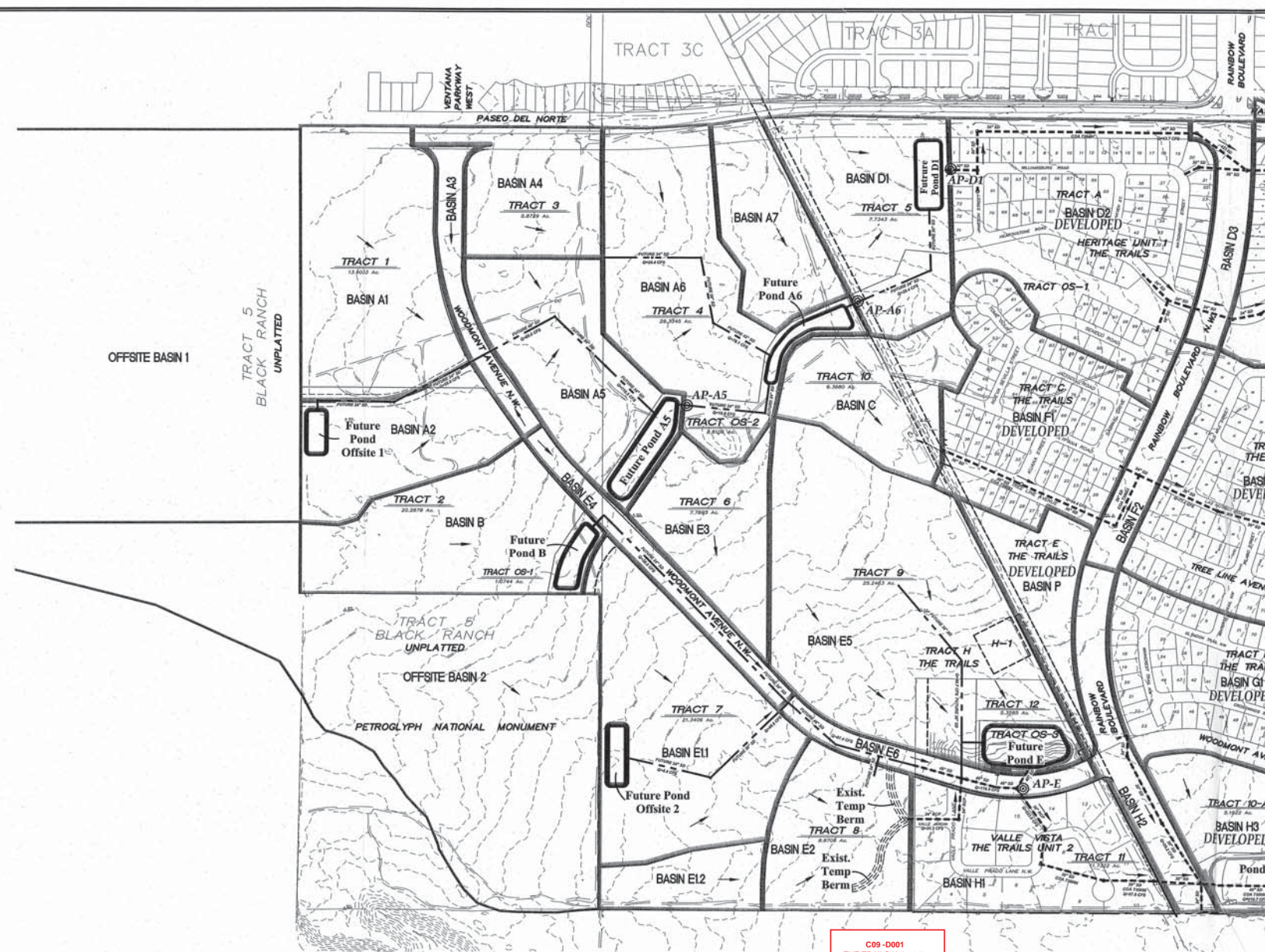


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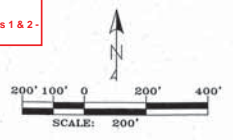
NOTES:

- 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, 4-HR STORM FLOWS.
- THE INTENDED FUTURE CONTRIBUTION FROM THE TRAILS UNIT 4 IS 20 CFS TO THE MAXIMUM DOWNSTREAM DISCHARGE OF 62 CFS IN UNVERSE SLEVS.

LEGEND

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

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



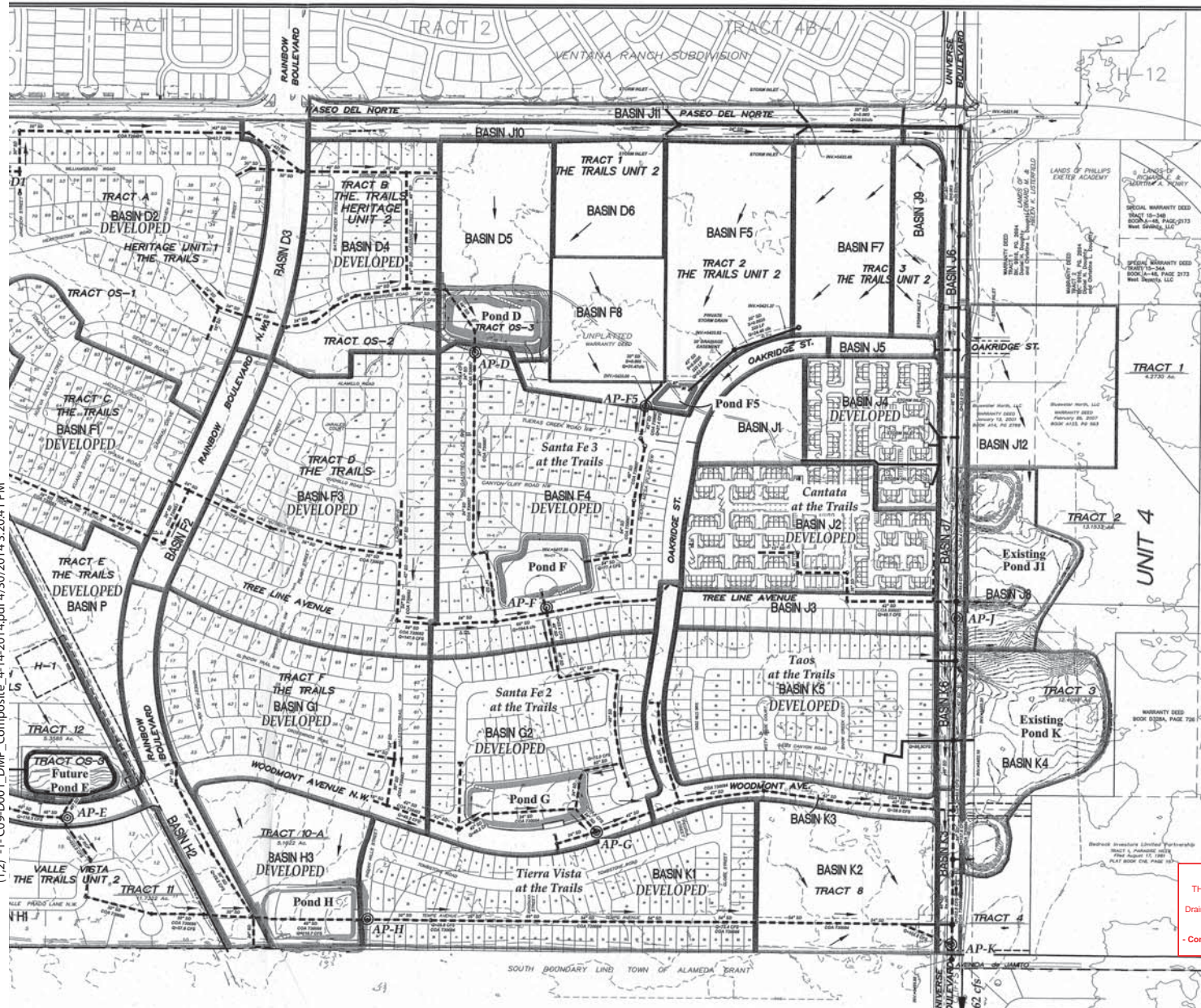
DATUM NAVD 1929

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1 (2) - 1 - C09-D001_DMP_Composite_4-14-2014.pdf 4/30/2014 3:20:41 PM



DETECTION POND CHARACTERISTICS

POUND	DRAIN AREA (AC)	Q100 (CFD)	Q100 (CFD)	BYPASS (CFD)	MAX VOL (MG)	V100 (MG)	TOP ELEV	BOTTOM ELEV	WHEEL
CDP1	1,272.9	37,000	9,250		2,440	2,502	6	0	5.80
A1	1,068.3	11,023	15,560		4,410	4,004	2516	2511	5515.50
A2	1,014.4	81,857	15,810		4,272	3,114	2506	2500	5504.64
A3	2,009.8	46,234	13,410		4,605	5,111	5475	5471	5474.29
A4	205.2	15,487	5,200	13,377	6,214	4,035	5476.0	5476.0	4261.00
F5	13.9	62.89	19.84		1.40	1.86	5426	5425	5425.97
F6	359.4	254.89	17.46	4,200	11.76	10.383	5454.3	5415.08	5423.56
F7	195.8	13.49	1.00	17.40	1.21	2.355	5425.5	5425.6	5418.81
CDP2	51.5	13.87	4.43		1.08	0.815	5	0	4.10
B1	12.8	34.80	3.95		0.99	0.990	5519	5515	5518.66
B2	137.0	159.83	4.80	15.30	7.37	6.008	5448	5441.6	5447.03
B3	187.0	89.12	5.20	21.40	3.02	3.870	5420	5418.65	5418.89
B4	217.9	141.18	6.05	26.38	7.24	3.771	5417	5414	5415.66
B5	472.6	189.83	15.81	34.97	14.84	8.300	5429	5426.63	5425.78

ANALYSIS POINT PEAK FLOWS

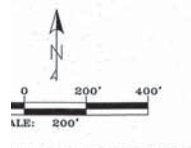
ANALYSIS POINT	PEAK FLOW
AP-A	11.56 CFS
AP-AE	15.81 CFS
AP-B1	13.41 CFS
AP-B2	19.20 CFS
AP-B3	27.40 CFS
AP-B4	23.84 CFS
AP-B5	22.20 CFS
AP-B6	26.80 CFS
AP-B7	46.12 CFS

NOTE: Add 2.8 ft. to the elevations to convert from NGVD 29 to NAVD 83
Greg Olson 4

DEVELOPED DRAINAGE BASIN CHARACTERISTICS

BASIN	AREA ACRES	LAND TREATMENT				Q	VOL
		A	B	C	D		
CDP1	1,272.9	769	0	0	0	2,502	4,210
A1	1,068.3	10	12.5	15.5	75	3,114	4,004
A2	8,522	0	33	33	34	13,410	13,410
A3	2,009.8	0	7	0	0	4,605	5,111
A4	5,309	0	17.5	7.5	80	26,380	26,380
A5	16,071	0	17	17	40	31,440	31,440
AP	6,572	0	12.5	12.5	75	23,220	23,220
C1	8.18	0	18	18	50	2,540	2,540
C2	11.42	0	19	19	49	3,660	3,660
C3	22.12	0	28.5	28.5	40	6,855	6,855
C4	33.0	0	35	35	50	10,500	10,500
C5	123.55	0	39.5	39.5	49	36,172	36,172
C6	8,375	0	23	23	34	28,550	28,550
C7	5,000	0	18	18	64	13,800	13,800
C8	14.13	0	23.7	23.8	56.3	43,300	43,300
C9	3,677	0	5	5	50	13,920	13,920
C10	22,800	0	20.7	21.8	56.9	70,027	70,027
C11	11,885	0	19.3	19.5	75	39,350	39,350
C12	7,000	0	17.5	17.5	80	24,420	24,420
C13	3,902	0	18	18	64	11,880	11,880
C14	16,200	0	20	20	30	48,720	48,720
C15	24,917	0	20	20	30	68,751	68,751
CDP2	515.2	100	0	0	0	48,210	41,177
B1	12,329	0	34	34	32	24,880	24,880
B2	17,662	0	33	33	34	34,481	34,481
B3	3,764	0	13	13	34	10,736	10,736
B4	2,863	0	13	13	34	8,144	8,144
B5	7,266	0	25	25	40	27,420	27,420
B6	3,469	0	7	7	90	13,113	13,113
B7	28,117	0	29	29	42	61,617	61,617
B8	3,123	0	7	7	90	11,097	11,097
B9	2,411	0	25	25	40	7,140	7,140
B10	11,058	0	25	25	40	30,008	30,008
B11	5,355	0	5	5	60	19,140	19,140
B12	7,662	0	20	20	60	24,480	24,480
B13	3,311	0	12.5	12.5	75	11,064	11,064
B14	10,992	0	12.5	12.5	75	36,460	36,460
B15	3,211	0	19	19	60	11,300	11,300
B16	4,644	0	12.5	12.5	75	17,470	17,470
B17	6,865	0	7	7	60	23,900	23,900
B18	2,200	0	5	5	90	9,550	9,550
B19	2,284	0	5	5	90	10,100	10,100
B20	5,378	0	5	5	90	23,310	23,310
B21	2,511	0	7.5	7.5	85	12,200	12,200
B22	4,290	0	5	5	90	14,270	14,270
B23	4,290	0	5	5	90	14,650	14,650
B24	8,248	100	0	0	0	10,653	9,314
B25	12,111	0	19	19	40	31,620	31,620
B26	9,211	0	13	13	70	29,370	29,370
B27	2,883	0	13	13	90	11,100	11,100
B28	4,838	0	20	20	90	18,120	18,120
B29	15,313	0	19	19	80	47,630	47,630
B30	1,811	0	7	7	90	5,810	5,810

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



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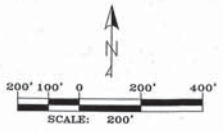
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15000 Rte 100
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FAX: (505) 850-9240

- 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 28 CFS TO THE MAXIMUM DOWNSTREAM DISCHARGE OF 42 CFS IN UNIVERSE BRANT.

LEGEND

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



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(NGVD 29 to NAVD 83 conversion)
Add -2.82' to 2.81' (cont) (cont) AD

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

Thompson Engineering
4-14-14