WEST BASIN DESIGN CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	26771233.70	755758.10	2390.0	BEGIN MAINT. ROAD – MATCH EX.
2	26771242.83	755769.85	2390.0	BEGIN MAINT. ROAD – MATCH EX.
3	26771231.12	755757.81	2389.6	MAINT. ROAD – P.C.
4	26771240.24	755771.56	2389.6	MAINT. ROAD – P.C.
5	26771203.47	755761.65	2390.0	HINGE LINE – P.T.
6	26771203.47	755766.15	2386.0	MAINT. ROAD – P.T.
7	26771203.47	755782.65	2386.0	MAINT. ROAD – P.T.
8	26771200.58	755806.76	2373.6	BASIN FLOOR
9	26771181.48	755838.20	2373.4	WEST STRUCTURE WALL
10	26771176.44	755846.84	2373.4	EAST STRUCTURE WALL
11	26771095.61	755750.01	2390.0	HINGE LINE – P.C.
12	26771092.29	755766.15	2373.7	END MAINT. ROAD – BASIN FLOOR
13	26771092.29	755782.65	2373.7	END MAINT. ROAD – BASIN FLOOR
14	26771051.91	755797.33	2373.5	BASIN FLOOR – P.T.
15	26771035.23	755797.14	2390.0	HINGE LINE – P.T.
16	26771174.62	755885.06	2390.0	HINGE LINE – MATCH EX.
17	26771158.84	755879.27	2373.2	BASIN FLOOR
18	26771164.32	755921.41	2390.0	HINGE LINE – MATCH EX.
19	26771148.10	755916.33	2373.0	BASIN FLOOR
20	26771156.16	755946.34	2390.0	HINGE LINE – MATCH EX.
21	26771139.71	755941.55	2372.9	BASIN FLOOR
22	26771137.49	756019.58	2390.0	HINGE LINE – MATCH EX.
23	26771120.26	756016.38	2372.5	BASIN FLOOR
24	26771130.03	756081.37	2390.0	HINGE LINE – MATCH EX.
25	26771112.29	756079.68	2372.2	BASIN FLOOR
26	26771125.24	756120.72	2390.0	HINGE LINE – MATCH EX.
27	26771107.43	756118.14	2372.0	BASIN FLOOR
28	26771119.35	756183.03	2390.0	HINGE LINE – MATCH EX.
29	26771101.37	756160.38	2371.8	BASIN FLOOR
30	26771112.04	756195.09	2390.0	HINGE LINE – MATCH EX.
31	26771094.69	756189.36	2371.7	BASIN FLOOR
32	26771094.01	756232.57	2390.0	HINGE LINE – MATCH EX.
33	26771083.15	756215.43	2371.7	BASIN FLOOR
34	26771065.60	756213.10	2371.7	BASIN FLOOR
35	26771028.60	756257.50	2390.0	HINGE LINE – MATCH EX.
36	26771038.16	755899.90	2373.0	BASIN FLOOR
37	26771021.32	755897.57	2390.0	HINGE LINE
38	26771037.39	755905.95	2373.0	BASIN FLOOR – P.C.
39	26771019.55	755910.34	2390.0	HINGE LINE – P.C.
40	26771031.52	755974.74	2372.6	BASIN FLOOR – P.T.
41	26771013.88	755994.20	2390.0	HINGE LINE – P.R.C.
42	26771031.22	756028.11	2372.4	END MAINT. ROAD – BASIN FLOOR
43	26771043.03	756030.23	2372.4	END MAINT. ROAD – BASIN FLOOR
44	26771045.07	756099.79	2372.0	BASIN FLOOR
45	26771047.80	756194.69	2371.5	WEST STRUCTURE WALL
46	26771047.99	756204.69	2371.5	EAST STRUCTURE WALL
47	26771048.05	756210.77	2371.6	BASIN FLOOR – ANGLE PT.
48	26771007.16	756229.77	2390.0	MAINT. ROAD – ANGLE PT.
49	26771005.12	756241.09	2388.8	DITCH ANGLE PT. – GRADE BREAK
50	26771002.98	756253.00	2390.0	HINGE LINE – MATCH EX.
51	26770999.94	756202.12	2390.0	MAINT. ROAD – P.C.
52	26770972.48	756223.58	2390.0	MAINT. ROAD – P.T.
53	26770957.27	756221.93	2390.0	BEGIN MAINT. ROAD – MATCH EX.
54	26770955.49	756233.31	2389.0	BEGIN MAINT. ROAD – MATCH EX.
55	26770953.71	756244.69	2390.0	BEGIN MAINT. ROAD – MATCH EX.

WEST BASIN CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	DELTA
C1	53.41'	31.18'	16.05'	33°26'43"
C2	50.00'	29.29'	15.08'	33°33'40"
C3	66.50'	38.95'	20.05'	33°33'40"
C4	38.44'	55.80'	34.11'	83°09'35"
C5	55.00'	84.74'	53.37'	88°16'26"
C6	583.00'	69.09'	34.58'	6°47'23"
C7	600.00'	84.13'	42.13'	8°02'01"
C8	1500.00'	208.55'	104.45'	7°57'58"
C9	25.00'	38.56'	24.30'	88°21'54"

WEST BASIN REMOVAL NOTES

1. REMOVE 66 L.F.± EXISTING 60" STORM DRAIN
2. REMOVE EXISTING INLET STRUCTURE
3. REMOVE 34 L.F.± EXISTING 18" RCP & END SECTION CONNECT TO PROPOSED SLOPE PER DETAIL ON SHT D6
4. REMOVE 10 L.F.± EXISTING 18" RCP & END SECTION CONNECT TO PROPOSED SLOPE PER DETAIL ON SHT D6
5. REMOVE EXISTING OUTLET STRUCTURE
6. REMOVE 1,896 SQ. FT.± EXISTING CONCRETE MAINTENANCE RAMP
7. REMOVE 6,089 SQ. FT.± EXISTING RIPRAP
8. REMOVE 156 L.F.± EXISTING 60" RCP
9. REMOVE 2,688 SQ. FT.± EXISTING RIPRAP
10. REMOVE 1,944 SQ FT.± EXISTING CONCRETE MAINTENANCE RAMP
11. REMOVE 382 SQ. FT.± EXISTING RIPRAP
12. REMOVE 605 SQ. FT.± EXISTING RIPRAP
13. REMOVE 755 L.F.± EXISTING CHAIN LINK FENCE

WEST BASIN CONSTRUCTION NOTES

3.1 "WD" 27+73.24, 935.06' LT. TO
"WD" 27+97.27, 783.98' LT.
CONSTRUCT BOLLARD AND CHAIN LINK SAFETY RAIL
SEE DETAILS ON SHEET D5

3.2 "WD" 28+70.54, 880.78' LT.
CONSTRUCT WEST BASIN INLET STRUCTURE
SEE LAYOUT DETAILS ON SHEET G9
SEE STRUCTURAL DETAILS ON SHEETS S1 AND S3

3.3 CONSTRUCT RCP SLOPE CONNECTION
TO EXISTING 18" RCP
SEE LATERAL #22 ON SHEET SD19
SEE DETAILS ON SHEET D6

3.4 CONSTRUCT RCP SLOPE CONNECTION
TO EXISTING 18" RCP
SEE LATERAL #23 ON SHEET SD19
SEE DETAILS ON SHEET D6

3.5 "WD" 30+44.21, 737.54' LT. TO
"WD" 32+67.40, 698.98' LT.
CONSTRUCT BOLLARD AND CHAIN LINK SAFETY RAIL
SEE DETAILS ON SHEET D5

3.6 "WD" 32+13.59, 718.09' LT.
CONSTRUCT WEST BASIN OUTLET STRUCTURE
INSTALL 11.64 L.F. 60" RCP
SEE LATERAL #21 ON SHEET SD19
SEE LAYOUT DETAILS ON SHEET G10
SEE STRUCTURAL DETAILS ON SHEETS S1, S4 AND S5

3.7 "WD" 32+13.67, 708.45' LT.
CONSTRUCT NDOT TYPE 4 MANHOLE
(PER STD DWG NO R-4.3.2)
CONNECT TO EXISTING 60" RCP
INSTALL 27.89 L.F. 36" RCP
CONNECT TO 3' WIDE x 2' HIGH CONCRETE DITCH PER NOTE 3.10
SEE PROFILE #21 ON SHEET SD19

3.8 "WD" 27+11.59, 975.28' LT. TO
"WD" 27+16.16, 863.26' LT.
CONSTRUCT EARTHEN V-DITCH WITH 2:1 SIDE SLOPES
DEPTH = 1.50'
SEE PROFILE #29 ON SHEET SD21

3.9 "WD" 27+16.16, 863.26' LT. TO
"WD" 27+16.57, 853.27' LT.
END EARTHEN V-DITCH
CONSTRUCT TRANSITION TO CONCRETE DITCH
SEE PROFILE #29 ON SHEET SD21

3.10 "WD" 27+16.57, 853.27' LT. TO
"WD" 32+08.91, 674.82' LT.
CONSTRUCT 3' WIDE x 2' HIGH
RECTANGULAR CONCRETE DITCH
SEE PROFILE #29 ON SHEET SD21
SEE DETAILS ON SHEET DS1

3.11 CONSTRUCT 16.5' WIDE CONCRETE MAINTENANCE RAMP
SEE DETAILS ON SHEET G7

3.12 CONSTRUCT 12' WIDE CONCRETE MAINTENANCE RAMP
SEE DETAILS ON SHEET G7

3.13 "WD" 27+09.6±, 975.2'± LT. TO
"WD" 32+09.1±, 671.8'± LT.
CONSTRUCT NEW 6' HIGH CHAIN LINK FENCE
PER NDOT STD. DWG. NO. R-8.3.2.1

3.14 INSTALL RIPRAP PAD
D50 = 18", Th = 3.0'
SEE LAYOUT DETAILS ON SHEET G10

SHEET NOTES

1. SEE SHEET G9 & G10 FOR ADDITIONAL STRUCTURE LAYOUT INFORMATION.

AVOID OVERHEAD POWER LINE CONTACT IT'S COSTLY
Call before you Overhead
1-702-227-2929
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
or
1-800-227-2600
OR
CLARK COUNTY TRAFFIC OPERATIONS
1-702-455-7544

H#11545

REV	DATE	BY	REVISION

DEPARTMENT OF PUBLIC WORKS
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702-229-6272

2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550
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WEB SITE WWW.FTNW.COM

RAINBOW DETENTION BASIN MODIFICATIONS
WEST BASIN GRADING PLAN
CONTROL DATA

MEADOWS ALTA PARALLEL PROJECT
PHASE II

DRAWN BY: MAL, WBM — NOV 10, 2008
DESIGNED BY: VTN — NOV 10, 2008
CHECKED BY: JNG — NOV 10, 2008
PROJECT NO: 6812
SCALE: HORIZ. 1"=30' VERT. NONE

PROFESSIONAL ENGINEER - STATE OF NEVADA
JEFFREY N. GRIEST
EXP. 06-30-09
CIVIL
No. 17150
5/4/09

SHEET
G4
37 OF 120 SHEETS
DRAWING NO.
327/281

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