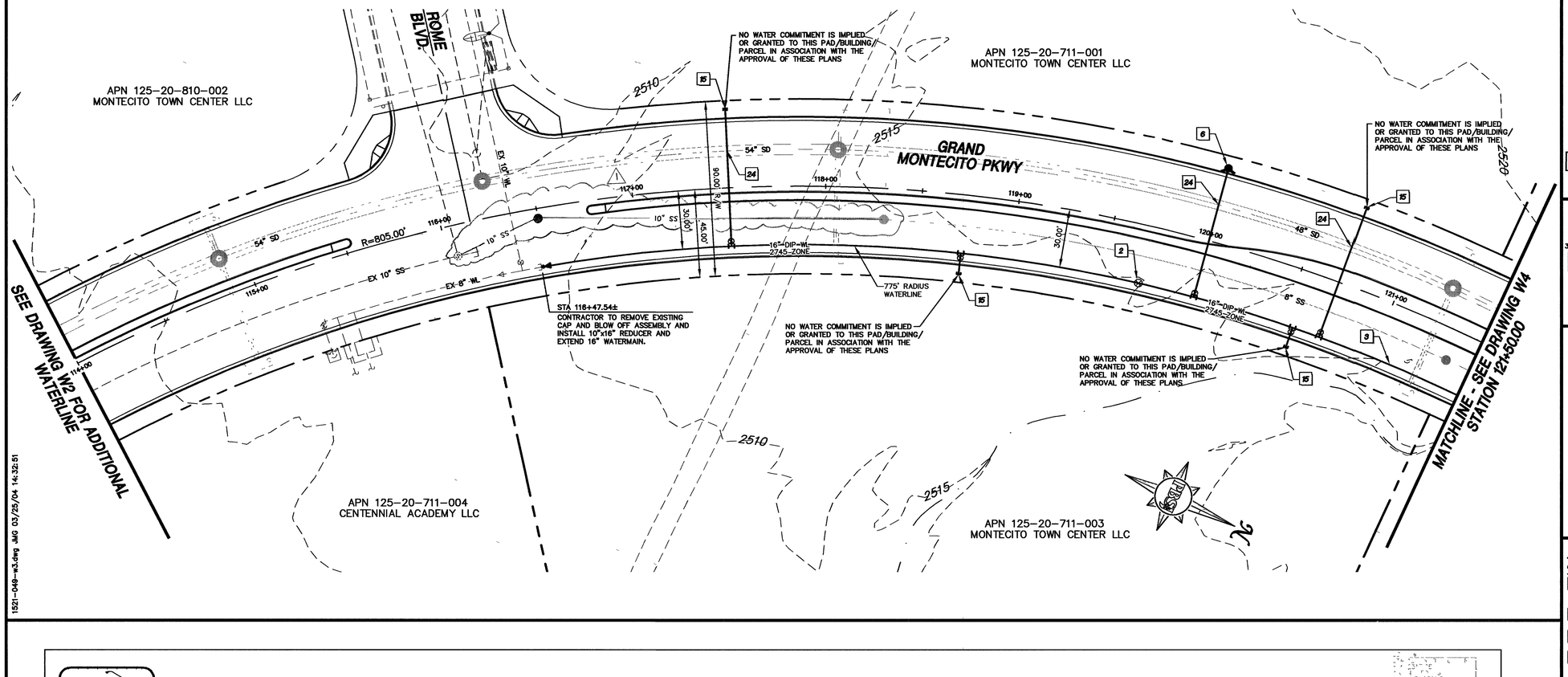
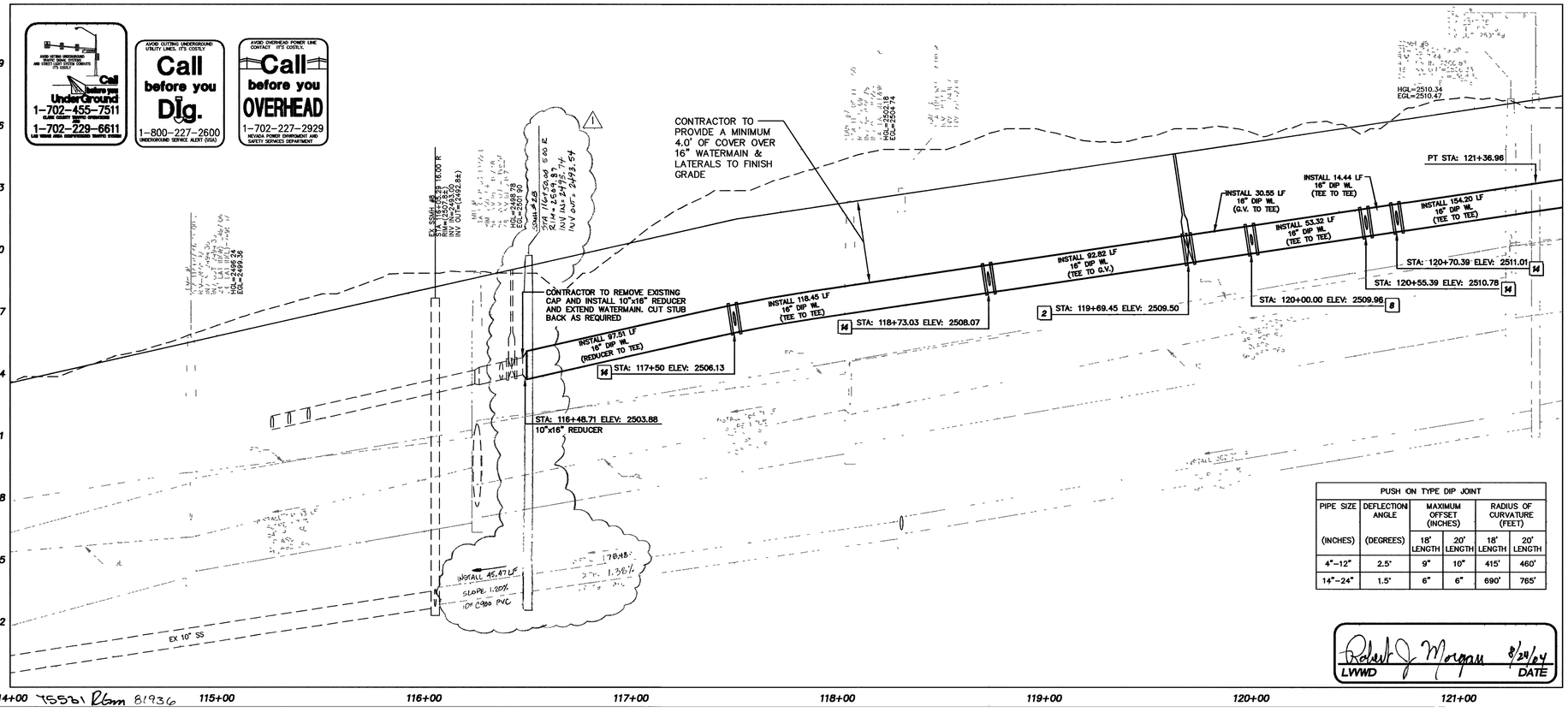
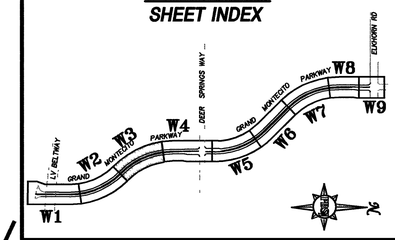




PUSH ON TYPE DIP JOINT					
PIPE SIZE (INCHES)	DEFLECTION ANGLE (DEGREES)	MAXIMUM OFFSET (INCHES)		RADIUS OF CURVATURE (FEET)	
		18' LENGTH	20' LENGTH	18' LENGTH	20' LENGTH
4"–12"	2.5°	9"	10"	415'	460'
14"–24"	1.5°	6"	6"	690'	765'

Robert J Morgan 8/20/04
LVVWD DATE

GRAND MONTECITO PARKWAY SHEET INDEX



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

HORIZ 1 inch = 30 ft.
VERTICAL 1 inch = 3 ft.

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS PROJECT IS GRID NORTH AS DEFINED BY THE NEVADA COORDINATE SYSTEM OF 1983 (NCS83), EAST ZONE, (2701), DETERMINED BY GIS CONTROL POINTS, 804 AND 808. AS SHOWN ON A RECORD OF SURVEY ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE, IN FILE 88 OF SURVEYS, AT PAGE 53.

BENCHMARK

BENCHMARK # 23
RIVET AND SQUARE ALUMINUM PLATE IN CONCRETE MONUMENT, 50 FT. SOUTH AND 40 FT. WEST OF CENTENNIAL PKWY. AND EL CAPITAN WAY

CAUTION:
EXISTING UTILITIES ARE LOCATED ON THE PLANS FROM A SEARCH OF AVAILABLE RECORDS. CONTRACTOR TO VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.

KEY NOTES

CONSTRUCTION ITEMS:

1. INSTALL A 12" TAPPING SLEEVE WITH A 12" OS&Y VALVE. INSTALLATION OF THE WET TAP ASSEMBLY SHALL BE PER UDACS SPECIFICATION 2.21 AND STD. PLATE No. 22.
2. INSTALL A 16" OS&Y VALVE PER UDACS STD. SPECIFICATIONS 3.24.01 AND 2.09
3. INSTALL 16" DUCTILE IRON PIPE (DIP) WATERMAIN PER UDACS STD. SPECIFICATIONS 3.11.04 AND PLATE No. 6C.
4. INSTALL 45° BEND STRUCTURE WITH RESTRAINED JOINTS PER UDACS SECTION 2.12. REFER TO PLANS FOR LENGTH OF REQUIRED RESTRAINED JOINTS
5. INSTALL A 16" 90° BEND PER UDACS STD. PLATE No. 5.
6. INSTALL A 6" FIRE HYDRANT ASSEMBLY PER UDACS SPECIFICATIONS 2.16 AND STD. PLATE No. 7. FIRE DEPARTMENT APPROVAL REQUIRED.
7. INSTALL A 12" OS&Y VALVE PER UDACS STD. SPECIFICATIONS 3.24.01 AND 2.09
8. INSTALL A 16"x6" TEE PER UDACS STD. PLATE No. 5.
9. REMOVE EXISTING CAP AND EXTEND THE EXISTING WATERMAIN. EXISTING 12" G.V. TO REMAIN IN CLOSED POSITION DURING THE PIPE INSTALLATION.
10. INSTALL A 16"x12" REDUCER WITH MECHANICAL JOINT RESTRAINTS.
11. INSTALL A 16" 11–1/4° BEND PER UDACS STD. PLATE No. 5.
12. INSTALL A 16"x12" CROSS WITH MECHANICAL JOINT RESTRAINTS PER UDACS STD. PLATE No. 5.
13. INSTALL A 16" CAP WITH 2" MANUAL BLOW–OFF ASSEMBLY PER UDACS STD. PLATE No. 4A.
14. INSTALL A 16"x8" TEE PER UDACS STD. PLATE No. 5.
15. INSTALL 8" PVC WATER LATERAL STUB AND CAP WITH 8" GATE VALVE. GATE VALVE TO BE INSTALLED PER UDACS STD. PLATE No.'S 3, 5 & 8. GATE VALVE TO BE INSTALLED AND REMAIN IN THE CLOSED POSITION UNTIL FUTURE WATER LATERAL EXTENSION.
16. CONTRACTOR TO REMOVE EXISTING CAP & BLOW OFF ASSEMBLY.
17. INSTALL, CAP AND MARK LOCATION OF 6" IRRIGATION SLEEVE PER DETAIL 'D' SHEET W10.
18. INSTALL 12" DUCTILE IRON PIPE (DIP) WATERMAIN PER UDACS STD. SPECIFICATIONS 3.11.04 AND PLATE No. 6C.
19. INSTALL A 12"x6" TEE PER UDACS STD. PLATE No. 5.
20. INSTALL A 12" CAP WITH 2" MANUAL BLOW–OFF ASSEMBLY PER UDACS STD. PLATE No. 4A.
21. INSTALL A 12"x8" TEE PER UDACS STD. PLATE No. 5.
22. INSTALL A 12" TEE PER UDACS STD. PLATE No. 5.
23. CONTRACTOR SHALL INSTALL STEEL CASING ASSEMBLY PER UDACS STD. SPECIFICATIONS 2.08 & STD. PLATE No. 16. REFER TO DETAIL 'B' SHEET W10 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL DOCUMENT ALL CASING ASSEMBLIES INSTALLED WITH VERTICAL AND HORIZONTAL LOCATIONS AND PROVIDE INFORMATION TO THE CIVIL ENGINEER.
24. CONTRACTOR SHALL DIP WATERLINE UNDER STORM DRAIN AND/OR SANITARY SEWER LINES AS NECESSARY WHEN MINIMUM 4.0' OF COVER OVER WATERLINE TO FINISH SURFACE/GRADE AND 18" MINIMUM CLEARANCE ABOVE STORM DRAIN AND/OR SANITARY SEWER LINES CANNOT BE MAINTAINED. DIP WATERLINE PER UDACS STD. PLATE No. 15. REFER TO DETAIL 'C' SHEET W10 FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL DOCUMENT ALL WATERLINE DIPS INSTALLED WITH VERTICAL AND HORIZONTAL LOCATIONS, TYPE, SIZE AND ANGLE OF BENDS USED AND PROVIDE INFORMATION TO THE CIVIL ENGINEER.
25. ENCASE STORM DRAIN PER UDACS SECTION 2.19
26. INSTALL STEEL PIPE CASING ON EXISTING WATERLINE PER UDACS PLATE No. 16
27. INSTALL A 16"x16"x12" TEE.
28. REMOVE EXISTING BLOW–OFF ASSEMBLY AND CONNECT. CUT EX. 12" LINE AS NEEDED TO CONNECT.

WATERLINE CONSTRUCTION NOTES:

1. SEE SHEET W10 FOR FIRE HYDRANT NORTHING AND EASTING TABLE
2. REFER TO SHEETS H1 THROUGH H4 FOR CL DIMENSION INFORMATION.
3. REFER TO SHEET W10 FOR UTILITY DETAILS, CROSSINGS & ADDITIONAL INFORMATION.

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED
1	7/26/04	Relocate GS & Add SSMH	RCS 7/26/04

ENGINEERING DESIGN SECTION
DRAWN BY: J. GREGORY
DESIGNED BY: V. HARKINS
CHECKED BY: V. HARKINS
DATE: 02-27-04
JOB NO.: 511521

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Henderson, Nevada 89074
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ENGINEERING · PLANNING · SURVEYING · CONSTRUCTION SERVICES

PROFESSIONAL ENGINEER STATE OF NEVADA
VERNON R. HARKINS
EXP. 10/31/05
CIVIL
No. 009698
7/15/04

Department of Public Works

GRAND MONTECITO PARKWAY IMPROVEMENTS
16" DIP WL PLAN AND PROFILES
STA 116+48.71 TO STA 121+50.00

CITY OF LAS VEGAS NEVADA

DRAWING No. W3 49
PLAN# 107V3701 61

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