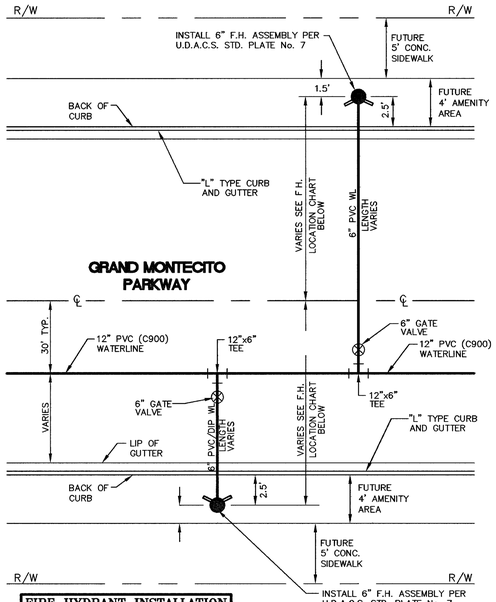
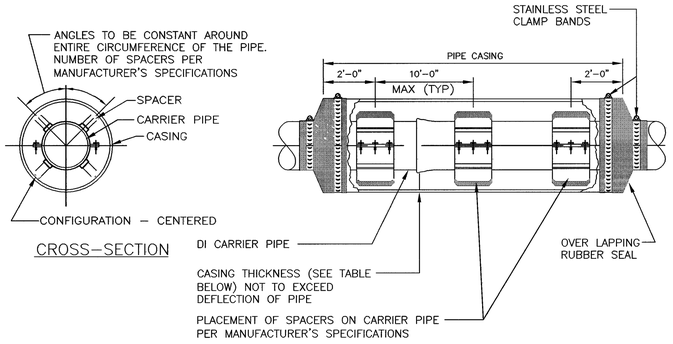


FIRE HYDRANT INSTALLATION AND LOCATION	
STATION	OFFSET FROM CENTERLINE
107+00.00	38.50' RT
110+50.00	38.50' LT
121+50.00	38.50' LT
125+00.00	43.00' RT
130+00.00	53.50' LT
135+00.00	38.50' RT
140+00.00	38.50' LT
145+00.00	38.50' RT
150+00.46	38.50' LT

CONTRACTOR NOTE:
REFER TO SHEETS W1 THRU W9 FOR 12" PVC. WATERLINE PLAN AND PROFILES FOR ADDITIONAL INFORMATION.

A / W10 FIRE HYDRANT INSTALLATION DETAIL

NTS



CARRIER PIPE		
PIPE SIZE	CASING OD	THICKNESS*
6"	16"	1/4"
8"	18"	1/4"
10"	20"	5/16"
12"	24"	5/16"
16"	30"	3/8"
18"	30"	3/8"
20"	36"	1/2"
24"	42"	1/2"

*CASING INSTALLATIONS OVER 25 FEET BELOW FINISHED GRADE TO HAVE THICKNESS DETERMINED BY A NEVADA LICENSED PROFESSIONAL ENGINEER.

*CASING INSTALLATIONS UNDER RAILROAD TRACKS TO HAVE THICKNESS DETERMINED BY A NEVADA LICENSED PROFESSIONAL ENGINEER AND APPROVED BY UNION PACIFIC RAILROAD.

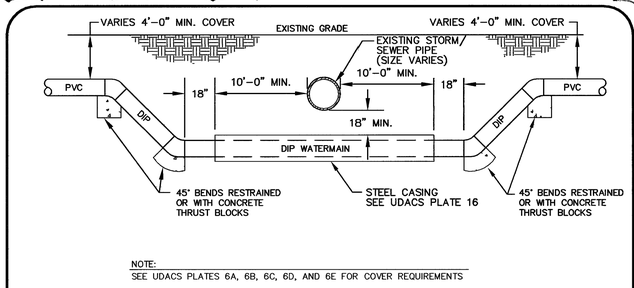
ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS I CLSM
ESN.038A REVISED 4/20/05

NOTES

1. STEEL PIPE CASING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A283, GRADE B, C, OR D. ALL JOINTS SHALL BE WELDED. INTERIOR JOINTS SHALL BE GROUND TO A SMOOTH FINISH. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C206, "AWWA STANDARD FOR FIELD WELDING OF STEEL WATER PIPE." COATINGS FOR STEEL CASING ARE NOT REQUIRED.
2. STEEL PIPE CASING SHALL BE INSTALLED SYMMETRICAL ABOUT WATER MAIN CENTERLINE (TYP). PIPE CASING SHALL BE LAID TRUE TO LINE AND GRADE WITH NO BENDS OR CHANGES IN GRADE FOR THE FULL LENGTH OF THE CASING.
3. AGENCY APPROVED CASING SPACERS AND END SEALS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. USA A "CENTERED" CONFIGURATIONAND PROVIDE THE MANUFACTURER WITH THE FOLLOWING: (PIPE OD, CASING ID, AND CASING LENGTH).
4. ALL PIPE JOINTS WITHIN THE CASING ARE TO BE RESTRAINED.
5. CASING TO BE FILLED WITH SAND OR GROUT AS APPROVED BY AGENCY.

B / W10 CASING ASSEMBLY DETAIL

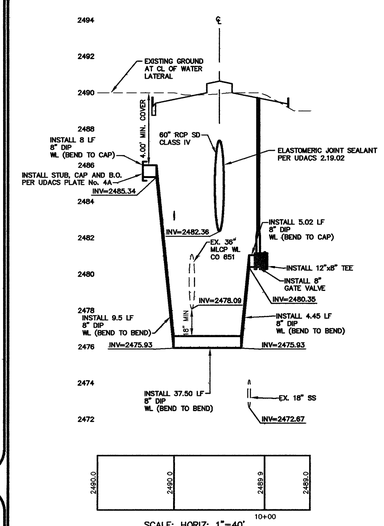
NOT TO SCALE UDACS PLATE No. 16



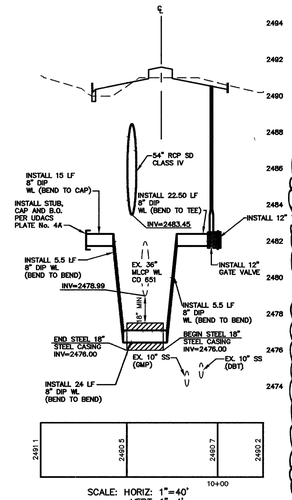
NOTE:
SEE UDACS PLATES 6A, 6B, 6C, 6D, AND 6E FOR COVER REQUIREMENTS

C / W10 STORM/SEWER WATER CROSSING

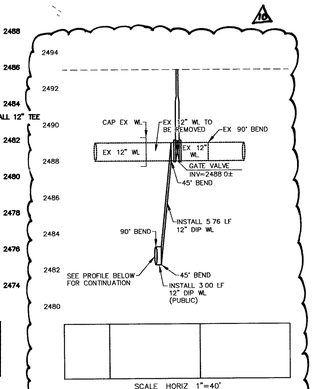
N.T.S REFER TO UDACS PLATE #15

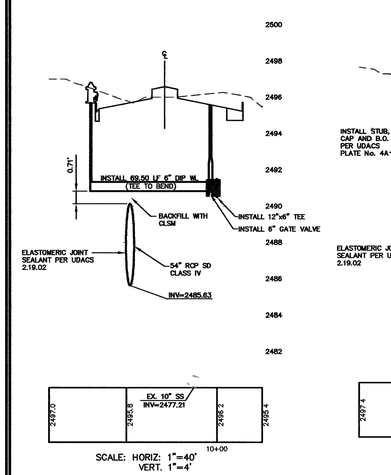


STA 105+56.81
SHEET W1

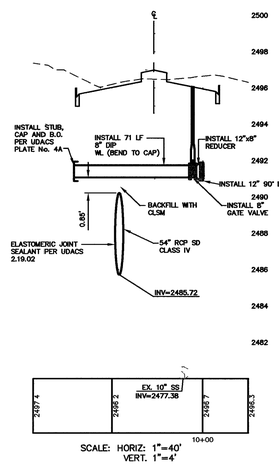


STA 107+15.98
SHEET W1

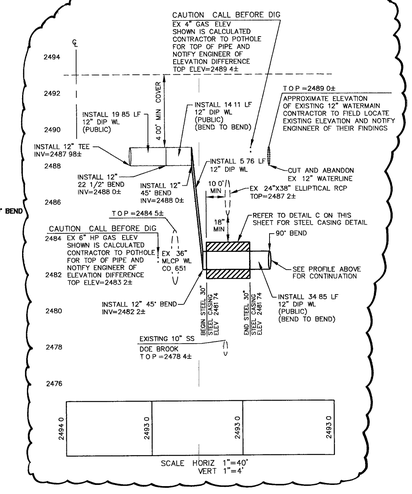




STA 110+57.74
SHEET W2

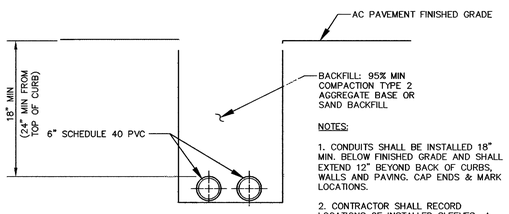


STA 110+75.52
SHEET W2



STA 109+45.97
SHEET W2

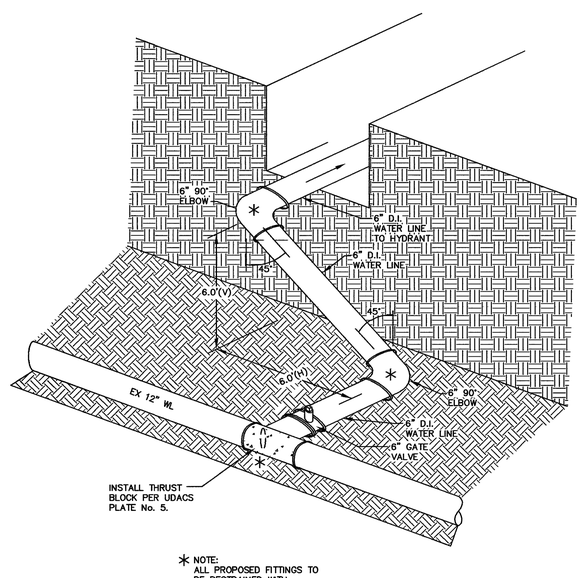
CONTROLLED LOW STRENGTH MATERIAL (CLSM)
PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS I / CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLMS) TO THE SPRINGLINE OF WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.19
ESN 0.42 REVISED 06/01/04



NOTES:

1. CONDUITS SHALL BE INSTALLED 18" MIN. BELOW FINISHED GRADE AND SHALL EXTEND 12" BEYOND BACK OF CURBS, WALLS AND PAVING. CAP ENDS & MARK LOCATIONS.
2. CONTRACTOR SHALL RECORD LOCATIONS OF INSTALLED SLEEVES: A COPY OF THE FIELD NOTES SHALL BE GIVEN TO THE ENGINEER FOLLOWING CONSTRUCTION.
3. HORIZONTAL LOCATION OF CONDUITS SHALL BE SHOWN ON DESIGN PLANS

D / W10 IRRIGATION SLEEVES



* NOTE:
ALL PROPOSED FITTINGS TO BE RESTRAINED WITH MEGA-LUG FITTINGS

E / W10 OFFSET/ DEEP BURY F.H. DETAIL

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY
Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE ALERT (USA)

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

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85946 21

1521-056-w10.dwg JMG 05/19/05 16:51:14

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED
4	5/4/07	REVISE PROFILE, ADD PROFILE AT 16" BEND	VRH 5/11/07
3	12/5/6	Revised Profiles, Notes, 10" L.L.	VRH 12/6/06

ENGINEERING DESIGN SECTION
DRAWING RECORY JOB NO. 511521
DESIGNED BY V. HARKINS
DRAWN BY V. HARKINS
DATE: 02-27-04

2270 Corporate Circle
Suite 100
Henderson, Nevada 89074
Phone: 702/565-7229
Fax: 702/565-7200

ENGINEERING · PLANNING · SURVEYING · CONSTRUCTION SERVICES

PROFESSIONAL ENGINEER · STATE OF NEVADA · VERNON R. HARKINS · EXP. 06/07 · CIVIL · No. 009998 · 12/16/05

Department of Public Works

GRAND MONTECITO PARKWAY IMPROVEMENTS
12" PVC (C900) WATERLINE DETAILS
AND WATER LATERAL PROFILES

CITY OF LAS VEGAS · NEVADA

LVWWD PROJ. 110908 DATE 12/14/05

DRAWING No. W10 | 56 / 61
PLAN# 107V3701