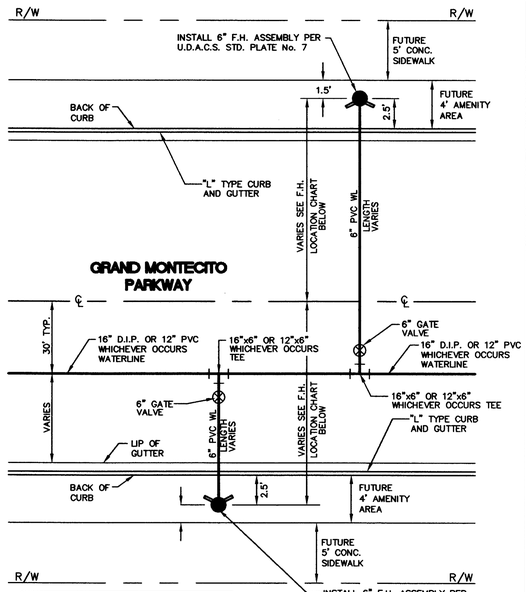
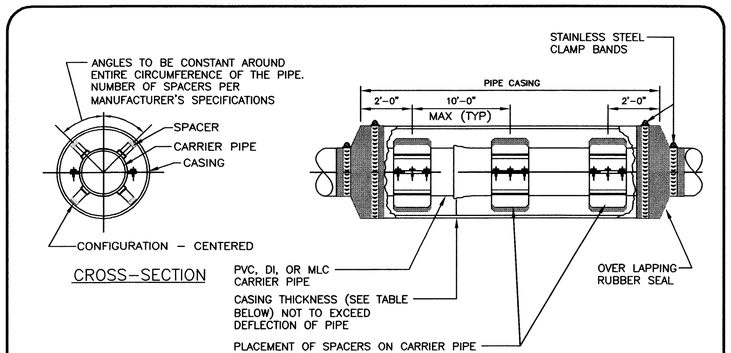


FIRE HYDRANT INSTALLATION AND LOCATION	
STATION	OFFSET FROM CENTERLINE
107+00.00	38.50' RT
110+50.00	38.50' LT
120+00.00	38.50' LT
125+00.00	43.00' RT
130+00.00	53.50' LT
135+00.00	38.50' RT
140+00.00	38.50' LT
145+00.00	38.50' RT
150+00.00	38.50' LT
155+00.00	43.50' RT

CONTRACTOR NOTE:
REFER TO SHEETS W1 THRU W9 FOR 16" D.I.P. 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"

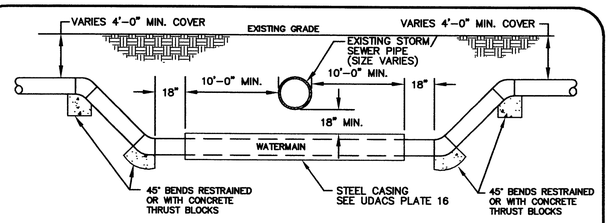
*CASING INSTALLATIONS OVER 25 FEET BELOW FINISHED GRADE TO HAVE THICKNESS DETERMINED BY A NEVADA LICENSED PROFESSIONAL ENGINEER.

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

NOTES

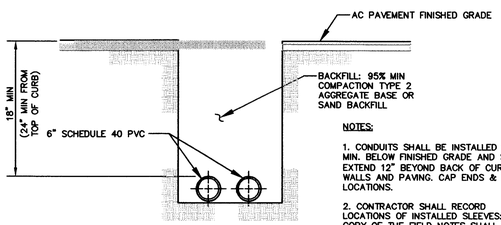
1. STEEL PIPE CASING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A283, GRADE B, C, OR D. ALL JOINTS SHALL BE WELDED. INTERIOR JOINTS SHALL BE GROUND TO A SMOOTH FINISH. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C206, "AWWA STANDARD FOR FIELD WELDING OF STEEL WATER PIPE." COATINGS FOR STEEL 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



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***

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED

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

PBS&J
3270 Corporate Circle
Henderson, Nevada 89074
Phone 702/363-7725
Fax 702/363-7300

ENGINEERING · PLANNING · SURVEYING · CONSTRUCTION SERVICES

Department of Public Works

GRAND MONTECITO PARKWAY IMPROVEMENTS
DIP WATERLINE DETAILS

CITY OF LAS VEGAS NEVADA

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

LVVWD — DATE

Call before you Dig. 1-800-227-2600 (UNDERGROUND SERVICE ALERT (USA))

Call before you OVERHEAD 1-702-227-2929 (NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT)

Call before you UnderGround 1-702-455-7511 1-702-229-6611

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