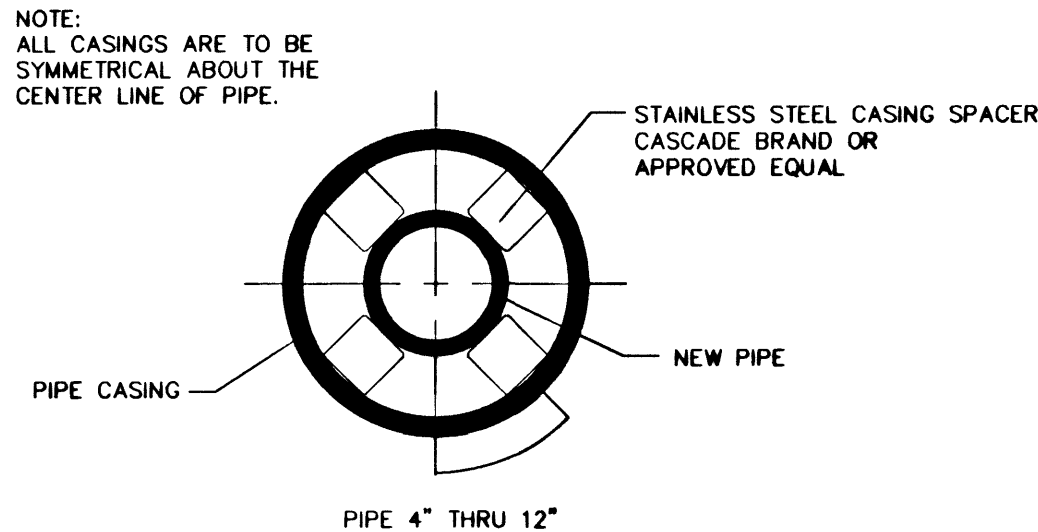


LAS VEGAS VALLEY WATER DISTRICT NOTES

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOUR NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD'S STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, GUTTERS, CURBS AND ALLEY GUTTERS.
8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:
- A. MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:
- A. POTABLE WATER SUPPLY QUALITY MATERIAL.
B. ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MINIMUM)
C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
- EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE WATER MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE EXTERIOR OF MAIN.
9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
10. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED PRIOR TO CONNECTION TO THE LVVWD'S DISTRIBUTION SYSTEM.
11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M. SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEEDS BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.
13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION OR SPECIFICALLY APPROVED ON THESE PLANS.
- Lost Revised 8/9/1999

TYPICAL CASING DETAIL



1. STEEL PIPE CASING SHALL BE FABRICATED FROM A MINIMUM OF 1/4\"

SEWER CONNECTION NOTE

ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEMED AVAILABLE FOR SERVICE.

PROJECT SEWER FLOW CONTRIBUTIONS

UNIT 1	
AVERAGE DAILY FLOW	= 250 GPD x 53 = 13,250 GPD
PEAK DAILY FLOW	= 3.4 (250 GPD) x 53 = 45,050 GPD

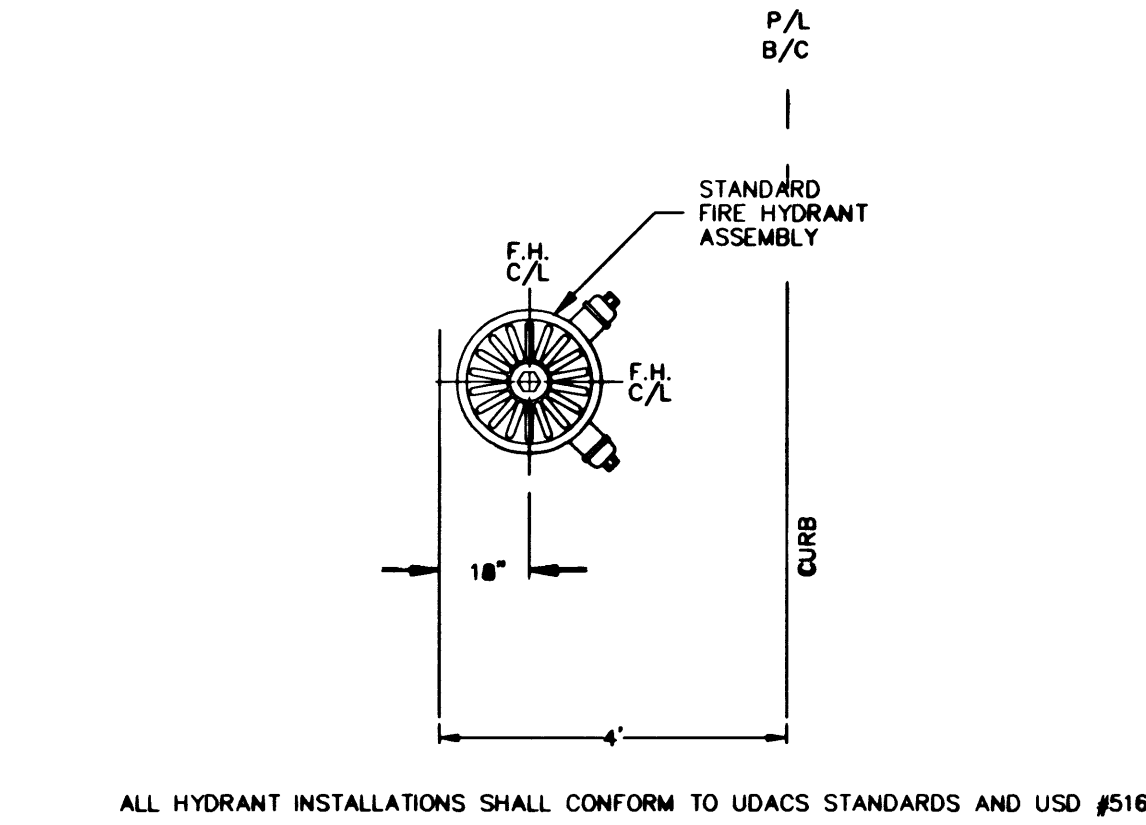
SEWER NOTE

ALL SEWER MAINS SHOWN ARE PUBLIC AND WILL BE MAINTAINED BY THE CITY OF LAS VEGAS.

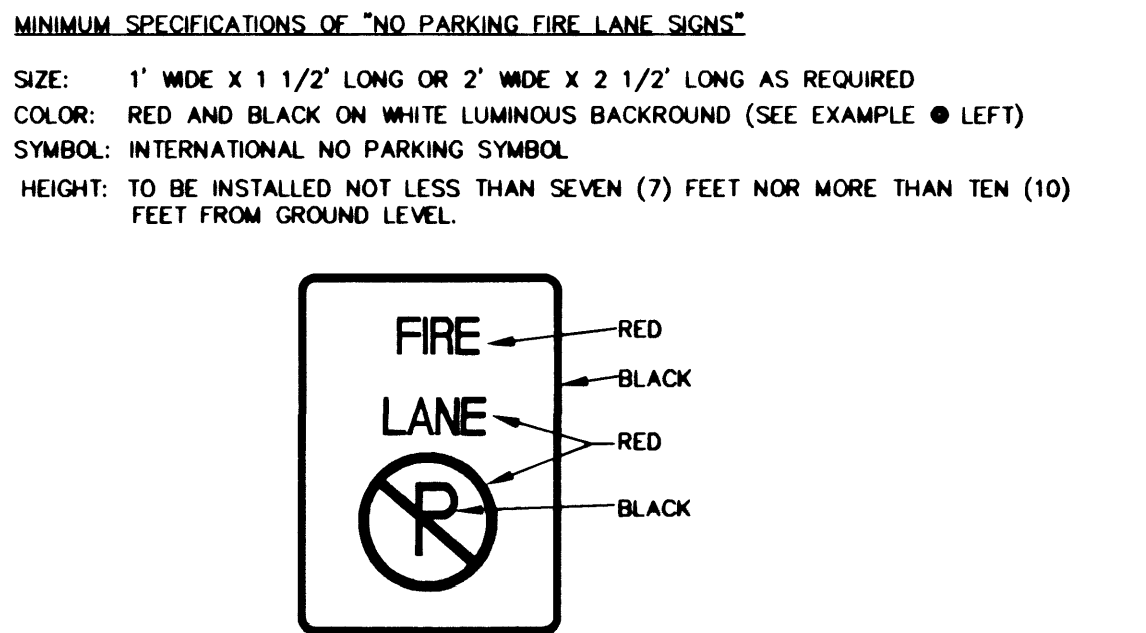
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VIEW NAME: 30441

NOTE: CONTRACTOR TO VERIFY DEPTH OF EXISTING SEWER STUB BEFORE COMMENCING CONSTRUCTION. ANY DISCREPANCY IN PLAN AND ACTUAL ELEVATION IS TO BE BROUGHT TO THE ENGINEERS ATTENTION IN WRITING IMMEDIATELY!

FIRE HYDRANT LOCATION



FIRE LANE SIGN



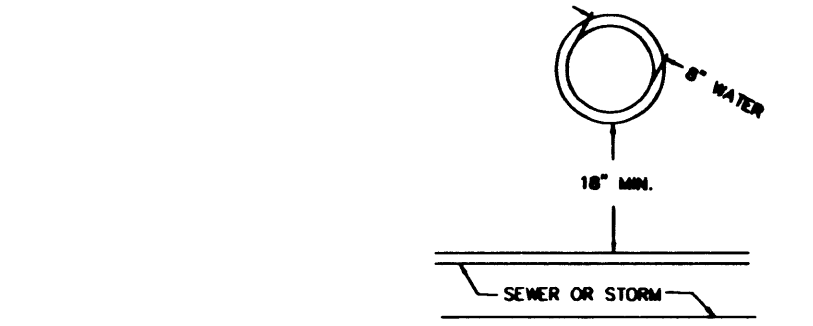
CITY OF LAS VEGAS FIRE FLOW DATA

FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 POUNDS SQUARE INCH RESIDUAL PRESSURE.	
BASED ON:	
LARGEST SQUARE FOOTAGE:	2500 ± SQ.FT.
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	
	2500 ± SQ.FT.
BUILDING HEIGHT:	35 FEET
NUMBER OF STORIES:	2 FLOORS
TYPE OF CONSTRUCTION:	(VN)
OCCUPANCY:	SINGLE FAMILY
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO
REVIEWED BY:	
DATE:	

SEWER LATERAL SEPARATION NOTE:

WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED TYPICALLY 6 FEET, AT MINIMUM 4 FEET, APART IN SEPARATE TRENCHES. FOR PARALLEL SEPARATION WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL PER "DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS" 1997 SECTION 2.2.21 C & UDACS SECTION 2.19.03 A FOR WATER AND SEWER LATERAL CROSSING REQUIREMENTS SEE UDACS SECTION 2.19.03 B.

UTILITY CROSSING TYPICAL DETAIL



ESTIMATES ONLY, CONTRACTOR TO VERIFY

PUBLIC WATER QUANTITIES

6" WATER	609 LF
8" WATER	1964 LF
12" WATER	535 LF
6" GATE VALVE	2 EA
8" GATE VALVE	10 EA
8" 90° BEND	1 EA
8" TEE	5 EA
8" X 6" REDUCER	1 EA
12" GATE VALVE	1 EA
8" X 6" TEE	6 EA
12" X 8" TEE	1 EA
10" TEE	EA
10" 22 1/2" BEND	4 EA
10" X 8" REDUCER	EA
10" X 8" REDUCER	EA
8" X 8" X 10" TEE	EA
STD FIRE HYDRANT ASSEMBLY	6 EA
2" BLOWOFF	7 EA
5/8" METER W/ 1" LATERAL (PUBLIC)	53 EA
3/4" METER W/ 1" LATERAL (IRRIG.) & 1" RPPA	2 EA
1" METER W/ 1" LATERAL (IRRIG.) & 1" RPPA	1 EA

PUBLIC SEWER QUANTITIES

8" SEWER	2888 LF
48" MANHOLE	14 EA
4" LATERAL (PUBLIC)	1488 LF

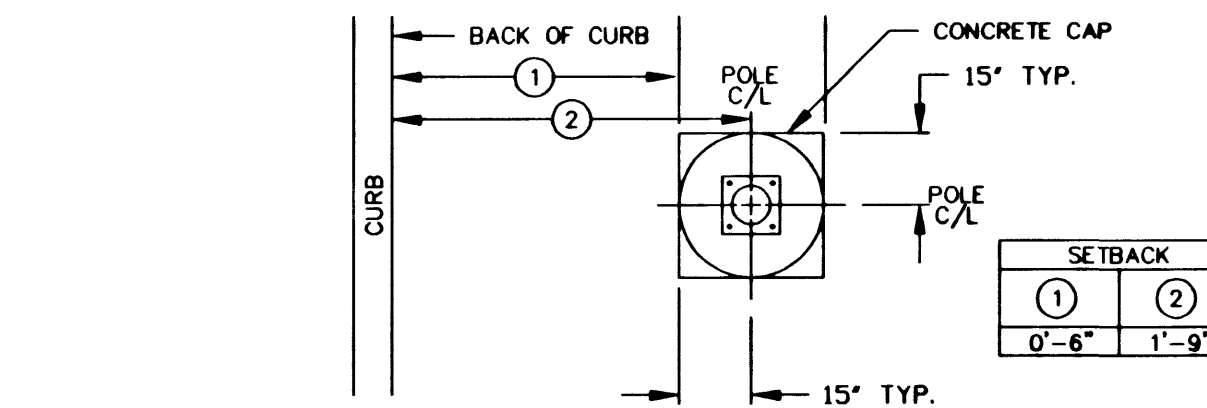
PUBLIC STREET LIGHT QUANTITIES

150 W.H.P.S.	8 EA
250 W.H.P.S.	3 EA
1-1/4" CONDUIT	1490 LF
2" CONDUIT	554 LF

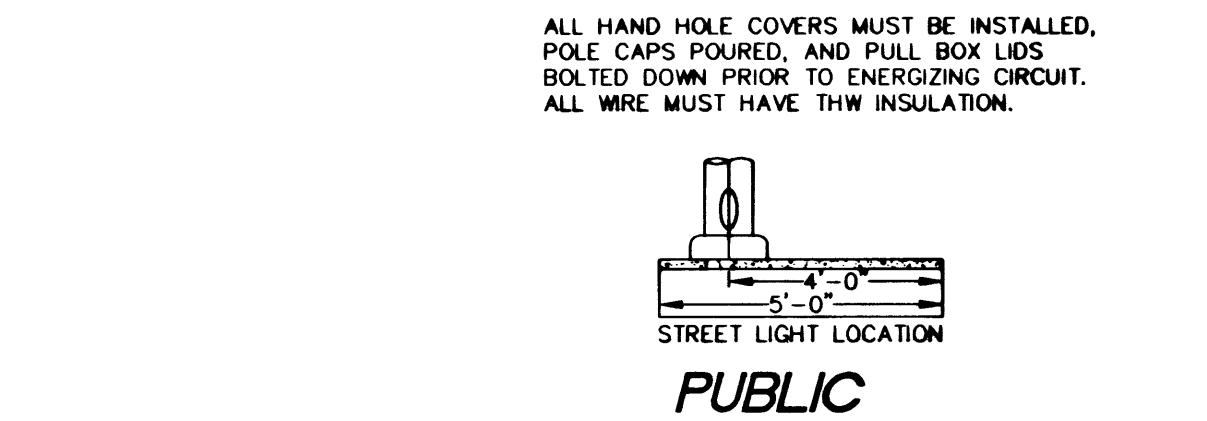
STREET LIGHT NOTE

ALL STREET LIGHT INSTALLATIONS SHALL CONFORM TO THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF LAS VEGAS STANDARDS.
* SEE ELECTRIC NOTES

STREET LIGHT LOCATION PRIVATE



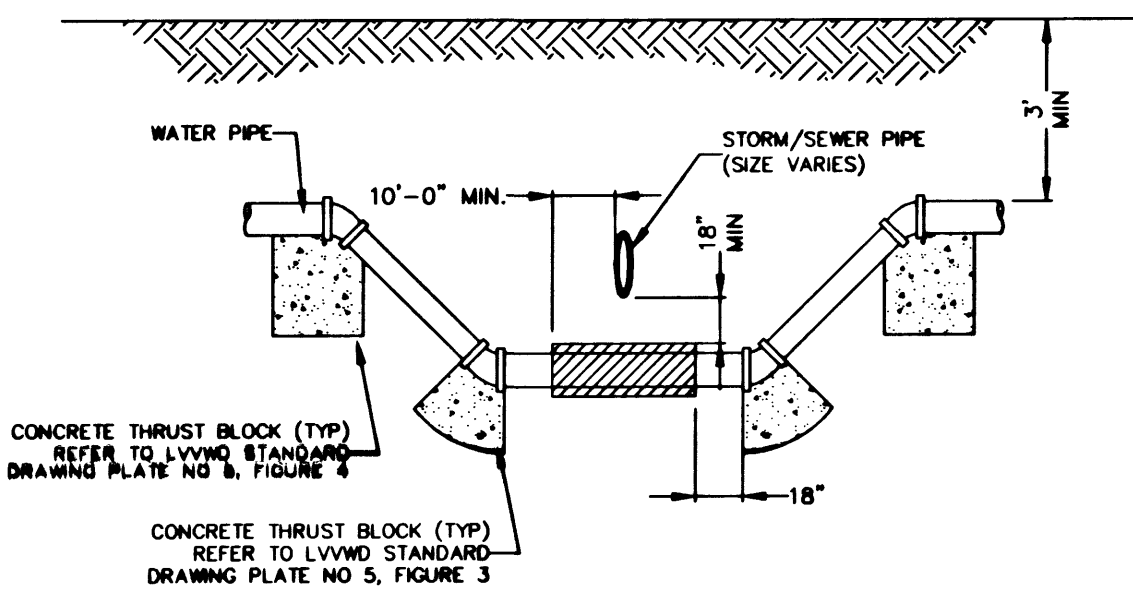
STREET LIGHT LOCATION PUBLIC



APPROVALS

CITY FIRE MARSHAL 2/22/01 DATE
LAS VEGAS VALLEY WATER DISTRICT 3/07/01 DATE
SOUTHWEST GAS 2/27/01 DATE
NEVADA POWER COMPANY 02/26/01 DATE
SPRINT

STORM/SEWER WATER CROSSING DETAIL



WHERE THE WATER LINE IS LESS THAN 18 INCHES OVER THE SEWER LINE, WHERE THE WATER LINE IS UNDER THE SEWER LINE, AND WHERE THE HORIZONTAL SEPARATION AS REQUIRED BY THE WATER SUPPLY REGULATIONS CANNOT BE MAINTAINED BECAUSE OF PHYSICAL OBSTRUCTIONS, THE WATER LINE SHALL BE PROTECTED BY CONSTRUCTION OF THE STORM/SEWER LINE AS FOLLOWS:

1. EXTRA HEAVY CAST IRON PIPE.
2. WATER SUPPLY QUALITY MATERIALS, OR
3. ENCASEMENT WITH FOUR INCHES, MINIMUM, OF CONCRETE OR SLEEVING WITH WATER SUPPLY QUALITY PIPE

EACH OF THESE PROVISIONS SHALL ALSO BE EXTENDED FOR OTHER THAN 90 DEGREE CROSSINGS TO THE POINT AT WHICH THE TEN FOOT SEPARATION BETWEEN THE WATER AND SEWER LINES IS ACHIEVED (10/SINE OF CROSSING ANGLE)

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2) 1"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENT SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION. ESN.002

CONDITIONAL APPROVAL OF VALVED OUTLET (6" and larger)

The water plans show one or more valved outlets extending out of paved areas. Installation of these outlets is acceptable, however, if the outlets are incorrectly located or not used for any reason when the property is actually developed, the developer shall abandon the outlets at the connection to the active main in accordance with the Districts standards and at the developers expense. ESN.037

PULTE HOMES 1635 VILLAGE CENTER CIRCLE, SUITE 250 LAS VEGAS, NEVADA 89134 (702) 256-7900		ENGINEERING COMPANY ALPHA & 50 So. Jones #202, Las Vegas, NV, 89107 Telephone: (702) 877-1300	
UTILITY NOTES		DIAMOND CREEK UNIT 1	
DRAWN BY: RCV	10-24-00	DESIGNED BY: RCV	10-24-00
CHECKED BY: EN	10-24-00	PROJECT NO: 0-078-24	SCALE: NTS
SHEET 10-24-00		SHEET 8 OF 18 SHEETS	
DRAWING NO. 1074-4658-1		DRAWING NO. 1074-4658-1	

