# LAS VEGAS VALLEY WATER DISTRICT NOTES

LVVWD PROJECT # 25554

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, VALLEY AND CURB 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:

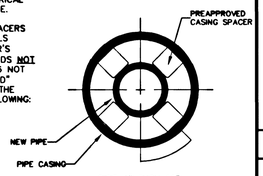
   A. POTABLE WATER SUPPLY QUALITY MATERIAL,
   B. ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MINIMUM)
   C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.

   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 LVVWDS PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION OR SPECIFICALLY APPROVED ON THESE PLANS.

Last Revised 8/9/1999

# TYPICAL CASING DETAIL

NOTES:
1. STEEL PIPE CASING SYMMETRICAL ABOUT WATER MAIN CENTERLINE.
2. PRE-APPROVED CASING SPACERS AND PRE-APPROVED END SEALS INSTALLED PER MANUFACTURER'S SPECIFICATIONS. (REDWOOD SKIDS NOT ALLOWED, UDACS SECTION 3.26 NOT APPLICABLE). USE A "CENTERED" CONFIGURATION AND PROVIDE THE MANUFACTURER WITH THE FOLLOWING:
   - PIPE OD
   - CASING ID
   - CASING LENGTH




PIPE 4" THRU 12"

3. STEEL PIPE CASING SHALL BE FABRICATED FROM A MINIMUM OF 1/4" THICK STEEL PLATES, CONFORMING TO THE REQUIREMENTS OF ASTM A283, GRADE B, C, OR D. ALL JOINTS SHALL BE WELDED. INTERIOR JOINTS SHALL BE GROUNDED TO A SMOOTH FINISH. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C201, "AWWA STANDARD FOR FABRICATED ELECTRICALLY WELDED STEEL WATER PIPE." COATINGS FOR STEEL CASING ARE NOT REQUIRED.
4. PIPE CASING SHALL BE LAID TRUE TO LINE AND GRADE WITH NO BENDS OR CHANGES IN GRADE FOR THE FULL LENGTH OF THE CASING.
5. THE PIPE SHALL BE SUPPORTED AT EACH END OF EACH JOINT WITH SPACERS. AFTER INSTALLATION OF THE PIPE, THE CASING SHALL BE SEALED AT BOTH ENDS WITH CASING END SEALS. DUCTILE IRON PIPE JOINTS INSIDE CASING ARE TO BE RESTRAINED.

# 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 DEEMED AVAILABLE FOR SERVICE.

# PROJECT SEWER FLOW CONTRIBUTIONS

## UNIT 2

| | | |
|---|---|---|
| AVERAGE DAILY FLOW | = | 250 GPD x 52 = 13,000 GPD |
| PEAK DAILY FLOW | = | 3.4 (250 GPD) x 52 = 44,200 GPD |

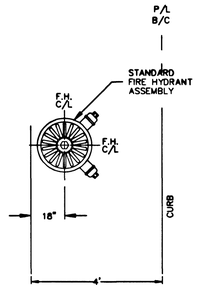
# SEWER NOTE

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

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!

FILE NAME: 007624MP.DWG
VIEW NAME:
33947 32458

# FIRE HYDRANT LOCATION

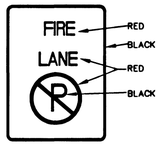



ALL HYDRANT INSTALLATIONS SHALL CONFORM TO UDACS STANDARDS AND USD #516

# FIRE LANE SIGN

MINIMUM SPECIFICATIONS OF "NO PARKING FIRE LANE SIGNS"

SIZE: 1' WIDE X 1 1/2' LONG OR 2' WIDE X 2 1/2' LONG AS REQUIRED
COLOR: RED AND BLACK ON WHITE LUMINOUS BACKROUND (SEE EXAMPLE ● LEFT)
SYMBOL: INTERNATIONAL NO PARKING SYMBOL
HEIGHT: TO BE INSTALLED NOT LESS THAN SEVEN (7) FEET NOR MORE THAN TEN (10) FEET FROM GROUND LEVEL.




# CITY OF LAS VEGAS FIRE FLOW DATA

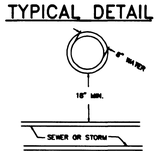
FIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 POUNDS SQUARE INCH RESIDUAL PRESSURE.
BASED ON:

| | |
|---|---|
| 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 |

# 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




# QUANTITIES

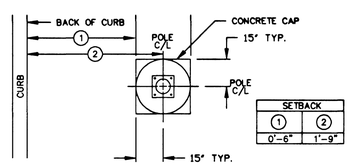
| PUBLIC WATER QUANTITIES | UNIT 2 |
|---|---|
| 6" WATER | 517 LF |
| 8" WATER | 590 LF |
| 6" GATE VALVE | 3 EA |
| 8" X 6" REDUCER | 3 EA |
| STD FIRE HYDRANT ASSEMBLY | 3 EA |
| 2" BLOWOFF | 3 EA |
| 5/8" METER W/ 1" LATERAL (PUBLIC) | 52 EA |
| 3/4" METER W/ 1" LATERAL (IRRIG.) & 1" RPPA | 1 EA |
| **PUBLIC SEWER QUANTITIES** | |
| 8" SEWER | 1350 LF |
| 48" MANHOLE | 3 EA |
| **PRIVATE SEWER QUANTITIES** | |
| 4" LATERAL | 1349 LF |
| BACK WATER VALVES | 10 EA |
| **PRIVATE STREET LIGHT QUANTITIES** | |
| 100 W H.P.S. | 11 EA |

# STREET LIGHT NOTE

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

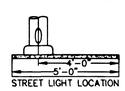
* SEE ELECTRIC NOTES

# STREET LIGHT LOCATION PRIVATE




# STREET LIGHT LOCATION PUBLIC

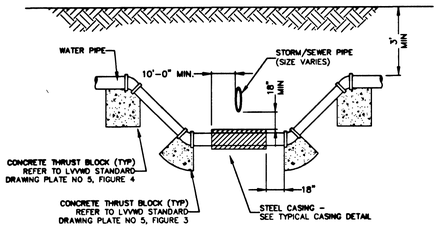
ALL HAND HOLE COVERS MUST BE INSTALLED, POLE CAPS POURED, AND PULL BOX LIDS BOLTED DOWN PRIOR TO ENERGIZING CIRCUIT. ALL WIRE MUST HAVE THW INSULATION.




STREET LIGHT LOCATION

*PUBLIC*

# 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)

# APPROVALS

LAS VEGAS VALLEY WATER DISTRICT — DATE 9/13/01

| REV | DATE | BY | REVISION |
|---|---|---|---|


PULTE HOMES
1635 VILLAGE CENTER CIRCLE, SUITE 250
LAS VEGAS, NEVADA 89134
(702) 256-7900

ALPHA & ENGINEERING COMPANY
50 So. Jones #202, Las Vegas, NV, 89107
Telephone: (702) 877-1300


SHEET: UTILITY NOTES

TITLE: DIAMOND CREEK UNIT 2

DRAWN BY: RCV 10-24-00
DESIGNED BY: RCV 10-24-00
CHECKED BY: EM 10-24-00
PROJECT NO: 0-076-24
SCALE: NTS

REGISTERED PROFESSIONAL ENGINEER — EVAN MEFFORD — STATE OF NEVADA — No. 14448 — 11/13/01

SHEET U2
5 OF 11 SHEETS

DRAWING NO. 107Y-4658-2