

# WATER FITTINGS LEGEND:

- 1 6" TEE
- 2 6"x6" TEE
- 3 6" 90° BEND
- 4 6" 45° BEND
- 5 6" GATE VALVE
- 6 FIRE HYDRANT ASSY. PER UDACS PLATE 7
- 7 2" BLOW-OFF ASSEMBLY W/CAP PER UDACS PLATE 4
- 8 6" 22-1/2" BEND
- 9 3/4" WATER METER PER UDACS PLATE 18 (TYPICAL)
- 10 3/4" WATER METER PER UDACS PLATE 10
- 11 5/8" WATER METER PER UDACS PLATE 18
- 12 8"x6" REDUCER
- 13 6" 22-1/2" BEND
- 14 6" GATE VALVE
- 15 6" 45° BEND
- 16 6" 11-1/4" BEND
- 17 6" 11-1/4" BEND

## BENCHMARK

CITY OF LAS VEGAS BENCHMARK # OLVO9 36NWS

RIVET AND PLATE IN TOP OF CURB AT THE NORTHWEST CORNER OF PAVILLION CENTER AND GREENMOOR.

ELEVATION = 927.9652 METERS (NAVD 88)

ELEVATION = 3044.50 US FEET (NAVD 88)

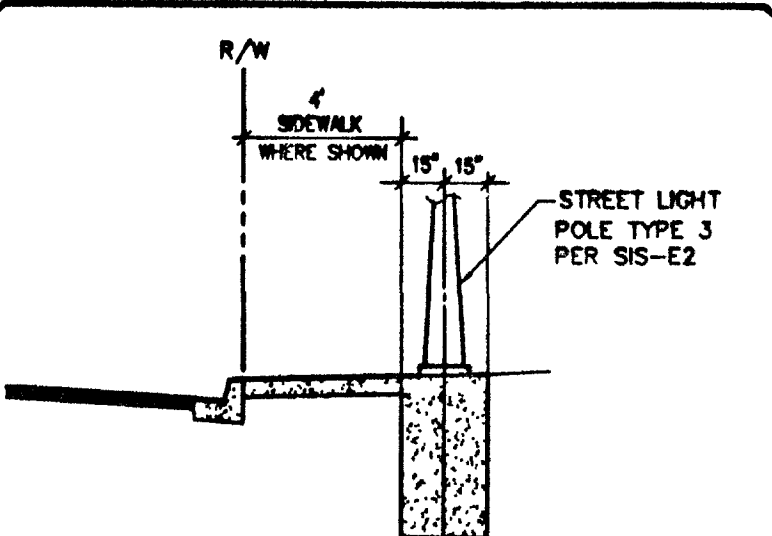
LOTS 12-16, 141-143

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 LVWD FACILITIES.

## NOTE:

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER MANUFACTURER INSTRUCTIONS ESN.062

SERVICE LATERALS FOR LOTS 33-46, 120-126 WILL BE TAPPED ON EXISTING MAIN BY OWNER'S CONTRACTOR UNDER DIRECTION OF THE LVWD.



TYPICAL STREET LIGHT LOCATION DETAIL

## BENCHMARK

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## LVWD NOTES

LVWD PROJECT # 22231

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWD. FOLLOWING WATER PLAN APPROVAL, FORTY-EIGHT (48) HOUR NOTICE SHALL BE GIVEN TO THE LVWD COMMUNICATIONS 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 LVWD INSPECTION. WHEN REQUESTING INSPECTION, PLEASE REFER TO THE PROJECT NUMBER IDENTIFIED ABOVE.

2. ALL WORK SHALL CONFORM TO LVWD STANDARD PLANS, DRAWING, 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 OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA.

4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT, UNLESS OTHERWISE APPROVED BY THE LVWD.

5. ALL SERVICE LATERALS TWO INCHES (2") IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVWD 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 VALLEY GUTTERS.

8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND A SANITARY SEWER OR STORM SEWER LINE CROSS:

A. MINIMUM EIGHTEEN INCH (18") 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 INCH (4") 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 TEN FOOT (10') DISTANCE PERPENDICULAR TO THE EXTERIOR OF MAIN.

9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX INCH (6") 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 LVWD'S DISTRIBUTION SYSTEM.

11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO INCHES (2") AND SMALLER FROM LVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICK-UP.

12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M. SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE A TEMPORARY SERVICE FEED BE INSTALLED, WITHOUT LVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVWD APPROVAL.

13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION OR SPECIFICALLY APPROVED ON THESE PLANS.

## UTILITY LEGEND

--- EX 6" W --- EXISTING WATER LINE W/SIZE

--- 6" W --- PROPOSED WATER LINE W/SIZE

--- 3/4" W --- 3/4" PROPOSED WATER LATERAL & METER PER UDACS PLATE 18 UNLESS OTHERWISE NOTED

--- EX 6" F --- EXISTING FIRE HYDRANT W/6" LATERAL & 6" G.V.

--- 6" F --- PROPOSED FIRE HYDRANT W/6" LATERAL & 6" G.V.

--- EX 6" S --- EXISTING SEWER LINE W/SIZE

--- 6" S --- PROPOSED SEWER LINE W/SIZE

--- 6" S --- PROPOSED SEWER LATERAL

--- EX 6" M --- EXISTING SEWER MANHOLE

--- 6" M --- PROPOSED SEWER MANHOLE

--- 0" LP --- 0" LP DRIVEWAY

--- G.V. --- GATE VALVE

--- 1-1/4" SL --- 1-1/4" SL CONDUIT

--- TYPE 5A --- TYPE 5A 150W STREET LIGHT PER SIS E-1

--- TYPE 3A --- TYPE 3A 100W STREET LIGHT PER SIS E-1

--- EXISTING STREET LIGHT

--- CONCRETE DRIVEWAY

--- 6" W --- 6" W WATER REDUCER

--- NO 3 1/2 PULLBOX

--- 125A PAD MOUNTED STREET LIGHT SERVICE POINT

--- REQUIRES BACKWATER VALVE

--- REQUIRES PRESSURE REDUCER VALVE

# AS BUILT

## BASIS OF BEARING

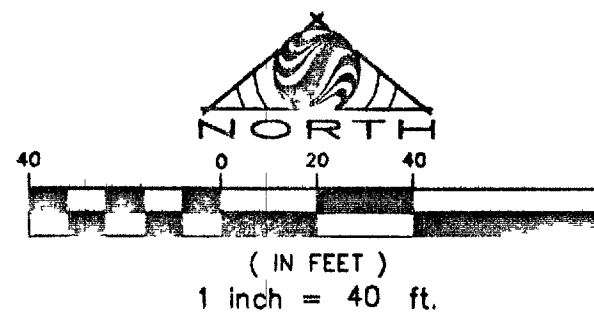
CONTROL MONUMENTS 208, 209 AND 211 AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE, IN FILE 92, PAGE 42 OF SURVEYS.

Call before you do Overhead  
1-702-593-6111

Call before you Dig.  
1-800-227-2600

## TRAFFIC LEGEND

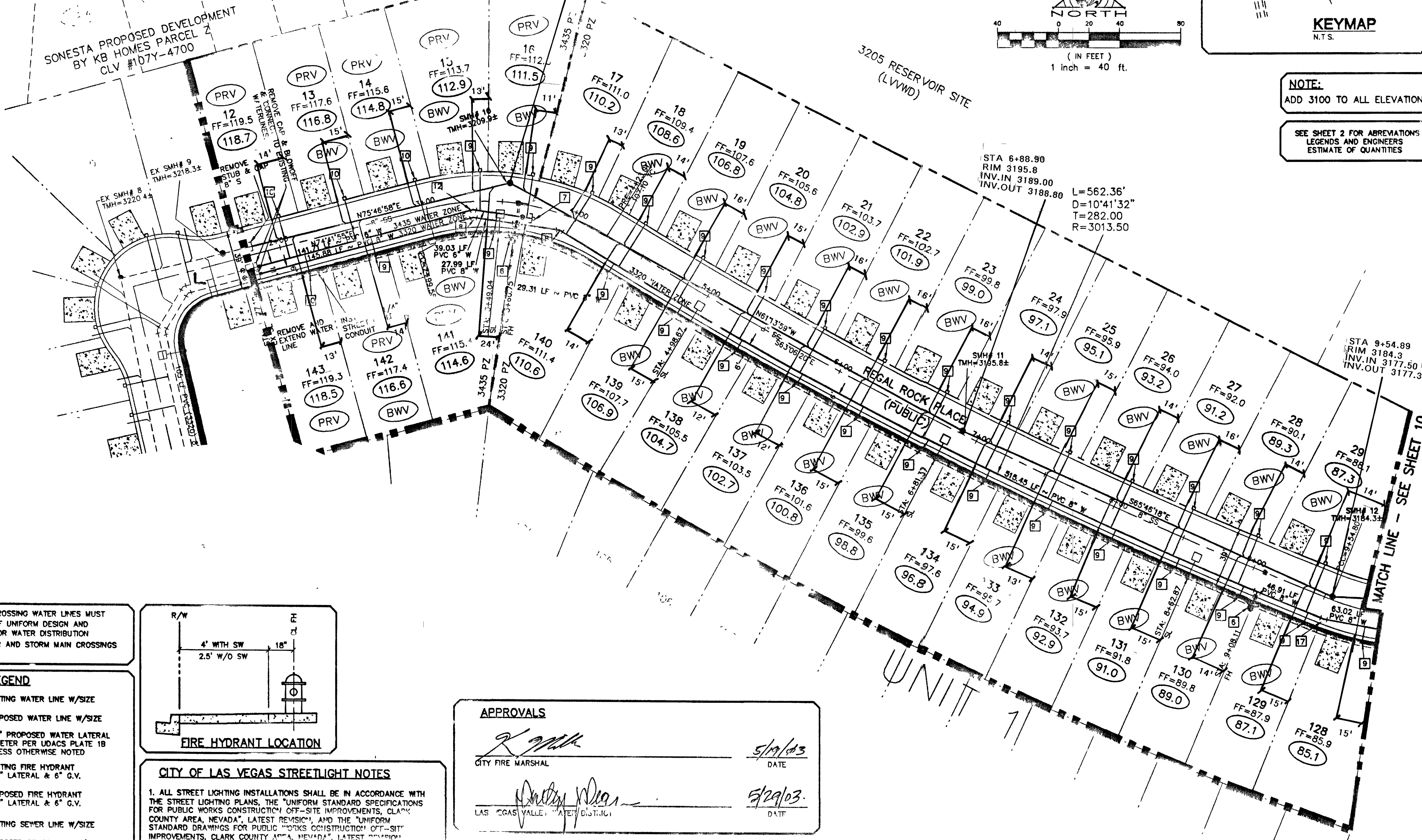
- L 9" D3 STREET NAME SIGN (PER STD DWG 250)
- O 30" STOP SIGN (R1-1) LOCATE AT BCR
- BLUE REFLECTIVE MARKER
- STREET SIGN AS NOTED PER PLAN



NOTE:  
ADD 3100 TO ALL ELEVATION

SEE SHEET 2 FOR ABBREVIATIONS  
LEGENDS AND ENGINEERS  
ESTIMATE OF QUANTITIES

SONESTA PROPOSED DEVELOPMENT  
BY KB HOMES PARCEL 2  
CLV #107Y-4700



## APPROVALS

CITY FIRE MARSHAL: *[Signature]* DATE: 5/19/03  
LAS VEGAS VALLEY WATER DISTRICT: *[Signature]* DATE: 5/29/03

## CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION, AND THE SUMMERLIN IMPROVEMENTS.

2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC/ELECTRICAL FIELD OPERATIONS DIVISION AND THE CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION A23.0.0(5) OF THE SPECIFICATIONS.

3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.

4. ALL EMPTY CONDUIT SHALL HAVE PULL STRINGS INSTALLED PRIOR TO FINAL INSPECTION.

5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE OF EIGHTEEN INCHES (18") TO THE FACE OF STREET LIGHTING POLE ON ALL SIDES WHEN STREETLIGHT IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.

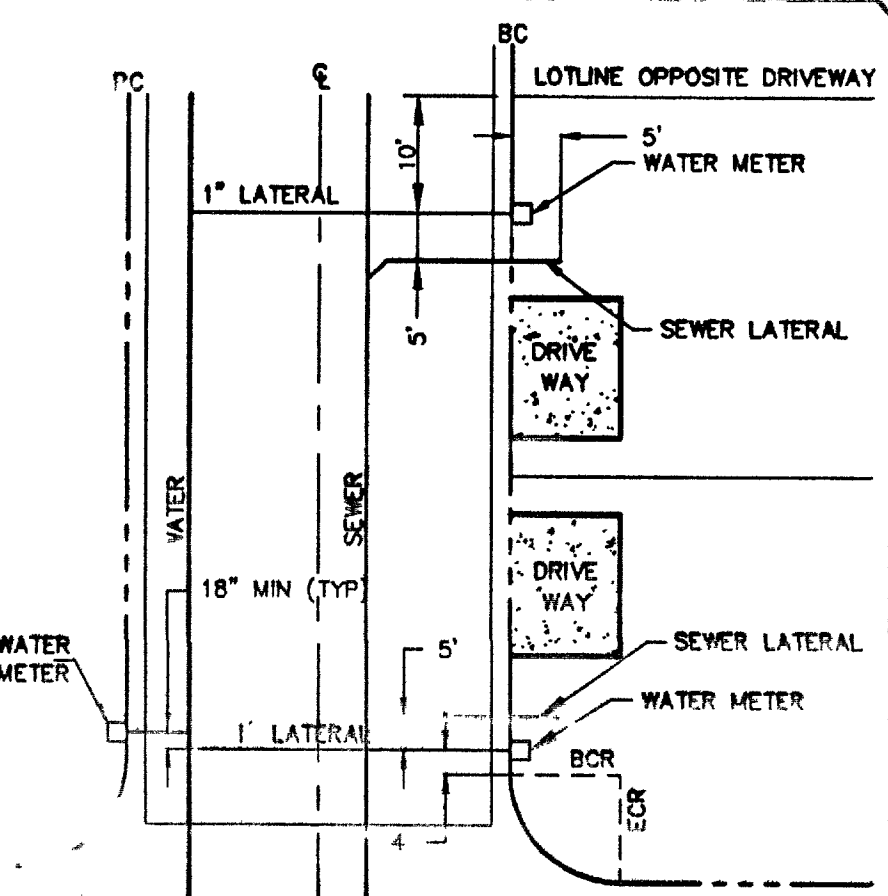
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE ELECTRICAL SERVICES SECTION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.

7. SERVICE POINT SHALL BE COORDINATED WITH NEVADA POWER COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.

8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.

9. WHEREVER THERE IS AN EXISTING CIRCUIT THAT MAY BE SUBJECT TO THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR BONDS, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED AT NO EXPENSE TO THE CITY OF LAS VEGAS.

10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMER AND METER SYSTEMS IF REQUIRED BY THE PLAN.



TYPICAL WATER & SEWER SERVICE LAYOUT

## ESTIMATE OF WATER QUANTITIES

|                                                       |         |
|-------------------------------------------------------|---------|
| 6" PVC WATER MAIN                                     | 181 LF. |
| 8" PVC WATER MAIN                                     | 950 LF. |
| 8" DIP WATER MAIN                                     | 0 LF.   |
| 3/4" WATER METER (UDACS PLATE 18) (TYPICAL)           | 36 EA.  |
| 3/8" WATER METER (UDACS PLATE 18)                     | 21 EA.  |
| 3/4" WATER METER (UDACS PLATE 10)                     | 2 EA.   |
| 2" BLOW-OFF ASSEMBLY W/CAP                            | 1 EA.   |
| 8" TEE                                                | 0 EA.   |
| 8" x 6" TEE                                           | 2 EA.   |
| 8" 90° BEND                                           | 0 EA.   |
| 8" 45° BEND                                           | 0 EA.   |
| 8" 22-1/2" BEND                                       | 0 EA.   |
| 8" 11-1/4" BEND                                       | 0 EA.   |
| 8" x 6" REDUCER                                       | 0 EA.   |
| 6" TYPE HYDRANT ASSEMBLY W/ 6" LATERAL, 6" GATE VALVE | 2 EA.   |
| 8" GATE VALVE                                         | 0 EA.   |
| 6" GATE VALVE                                         | 1 EA.   |
| 6" 45° BEND                                           | 0 EA.   |
| 6" 22-1/2" BEND                                       | 1 EA.   |
| 6" 11-1/4" BEND                                       | 2 EA.   |

NOTE: QUANTITIES ARE APPROXIMATE ONLY.

## BASIS OF BEARING

CONTROL MONUMENTS 208, 209 AND 211 AS SHOWN ON THAT CERTAIN MAP ON FILE IN THE CLARK COUNTY RECORDER'S OFFICE, IN FILE 92, PAGE 42 OF SURVEYS.

## FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENTS IS: 1,500 GALLONS PER MINUTE

AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE: 3600 SF

LARGEST AREA BETWEEN 4-HOUR

BUILDING HEIGHT: N/A

NUMBER OF STORIES: ONE-STORY

TYPE OF CONSTRUCTION: TYPE 5 NR

OCCUPANCY: SINGLE-FAMILY

FULL AUTOMATIC FIRE: NONE

SPRINKLER SYSTEM: NONE

REVIEWED BY: *[Signature]* DATE: 5/19/03

## SEWER FLOW CALCS

DAILY AVERAGE FLOW = 0.015 MGD

PEAK FLOW = 0.043 MGD

## TRAFFIC LEGEND

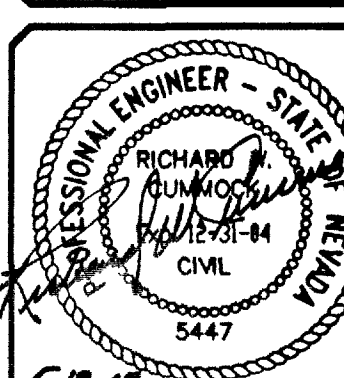
- L 9" D3 STREET NAME SIGN (PER STD DWG 250)
- O 30" STOP SIGN (R1-1) LOCATE AT BCR
- BLUE REFLECTIVE MARKER

Stantec Consulting Inc.  
7251 West Charleston Blvd.  
Las Vegas NV 89117  
Tel: 702.258.0115  
Fax: 702.258.4956  
www.stantec.com



Pulte Homes  
11111 WILLOW CENTER CIRCLE, SUITE 250  
LAS VEGAS, NEVADA 89134  
702.258-7500

HILLSTONE AT THE SUMMERLIN VISTAS - UNIT 2  
UTILITY & TRAFFIC PLAN AS BUILT



SHEET 9 of 10  
CLV: DWG #

NO. DESCRIPTION DATE APPROD  
1. NO WORK SHALL BE DONE ON THIS DRAWING UNLESS THE DRAWING IS SIGNED BY THE ENGINEER OR ARCHITECT. ANY CHANGES TO THE DRAWING MUST BE MADE BY THE ENGINEER OR ARCHITECT. ANY CHANGES TO THE DRAWING MUST BE MADE BY THE ENGINEER OR ARCHITECT. ANY CHANGES TO THE DRAWING MUST BE MADE BY THE ENGINEER OR ARCHITECT.

DATE: 5/13/2003  
DRAWN BY: SES  
DESIGNED BY: RPS  
CHECKED BY: RWC  
ADA CHECKED: 8/14/03  
JOB NO.: 8847002  
SCALE: AS NOTED

Stantec

Pulte Homes

HILLSTONE AT THE SUMMERLIN VISTAS - UNIT 2  
UTILITY & TRAFFIC PLAN AS BUILT



SHEET 9 of 10  
CLV: DWG #