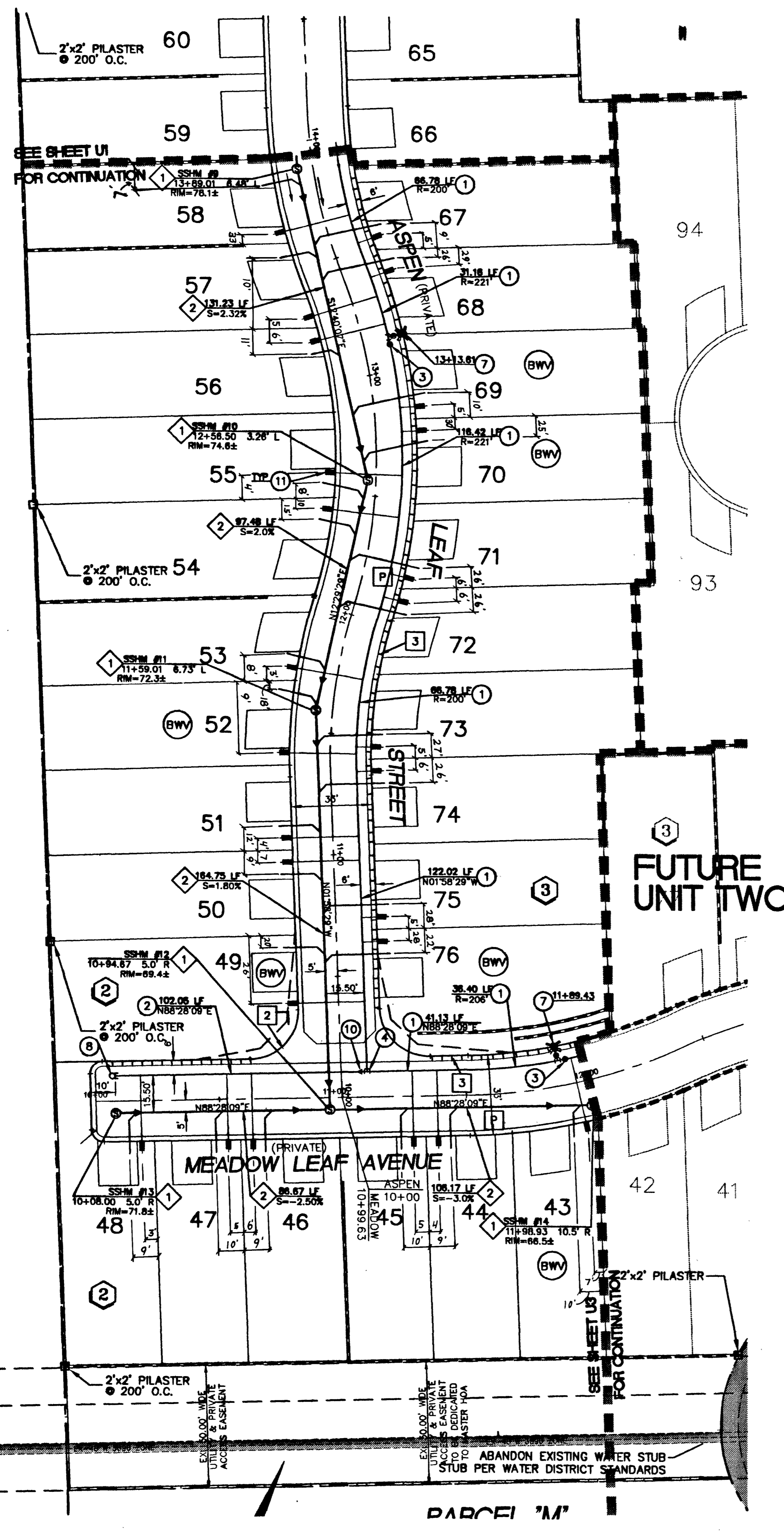


Avoid overhead power lines. Call before you Dig 1-800-227-2600. Call before you Overhead 1-702-593-6111.

FUTURE BELTWAY LOCATION



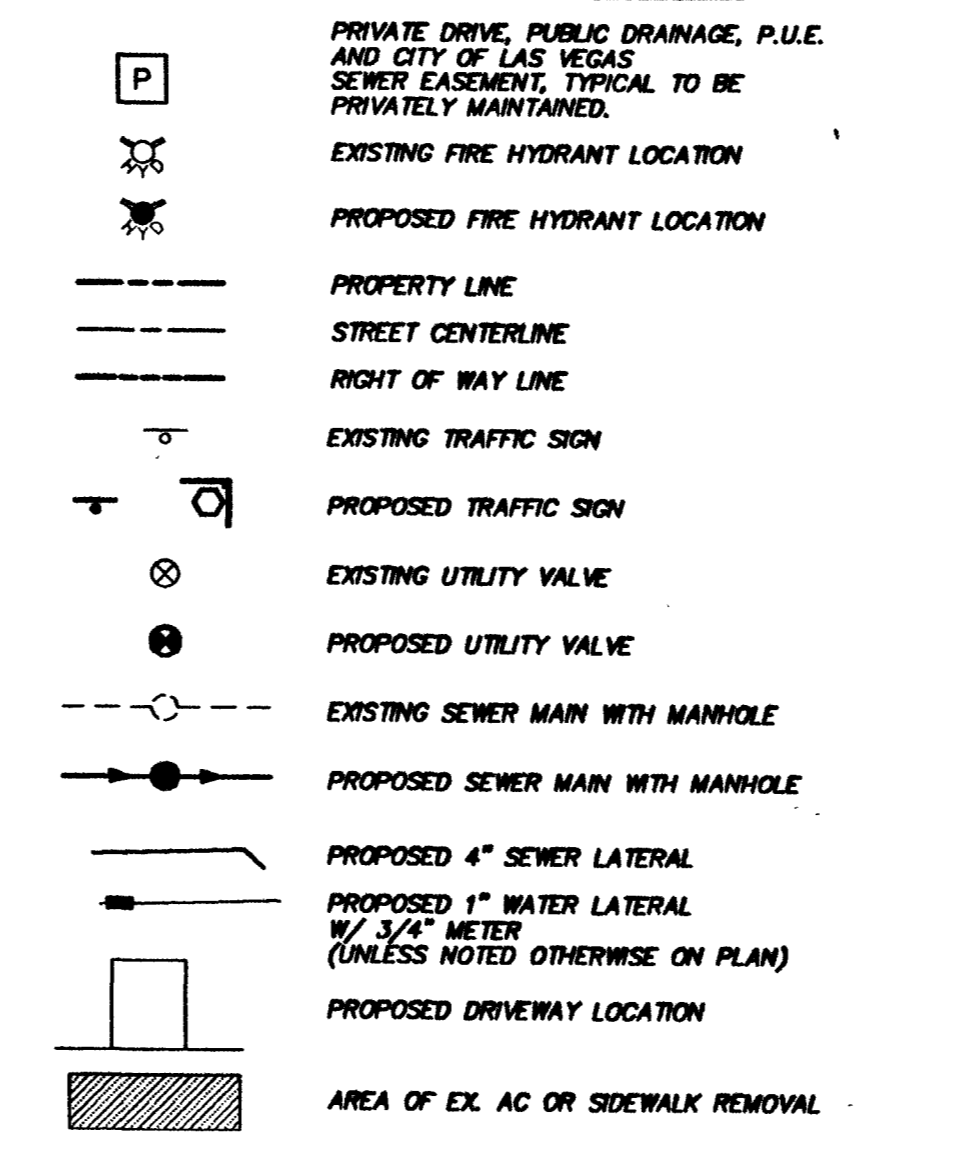
SEWER CONSTRUCTION KEY NOTES

- 1 INSTALL 48" SANITARY SEWER MANHOLE PER SOUTHERN NEVADA DESIGN & CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS, 1997, SD-1, SD-7.
- 2 INSTALL 8" SEWER MAIN
- 3 TRENCH BACKFILL UNPAVED AREA PER SUMMERLIN STD. DWG. NO. U-19
- 4 TRENCH BACKFILL PAVED AREA PER SUMMERLIN STD. DWG. NO. U-20
- 5 INSTALL 8" CAP
- 6 TRENCH BACKFILL PAVED AREA PER SUMMERLIN STD. DWG. NO. U-21 (PRIOR TO FINAL LIFT)
- (BWV) BACK WATER VALVE (SEE DETAIL ON SHEET C-2)

WATER CONSTRUCTION KEY NOTES AND QUANTITIES

- 1 INSTALL 8" PVC WATER LINE 2,275 LF
- 2 INSTALL 8" PVC WATER LINE 204 LF
- 3 INSTALL 8" GATE VALVE. VALVES SHALL NOT BE LOCATED IN STREET VALLEY CUTTERS OR WITHIN THE PROPOSED CURB AND GUTTER LOCATIONS. 3 EA
- 4 INSTALL 8" TEE 5 EA
- 5 INSTALL 8" 22.5° BEND 3 EA
- 6 INSTALL 8" 11.25° BEND 6 EA
- 7 INSTALL FIRE HYDRANT ASSEMBLY PER UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDS) PLATE No. 7, INCLUDES TEE, 8" PIPE, GATE VALVE AND RISER AND THE LOCATION SHALL BE DETERMINED BY CLARK COUNTY AREA STD. DWG. 516 VALVES SHALL NOT BE LOCATED IN STREET VALLEY CUTTERS OR WITHIN PROPOSED CURB AND GUTTER LOCATIONS. 6 EA
- 8 8" CAP W/ 2" BLOW OFF ASSEMBLY (PER UDACS PLATE No. 4) 1 EA
- 9 8" CAP W/ 2" BLOW OFF ASSEMBLY (PER UDACS PLATE No. 4) 2 EA
- 10 INSTALL 6"x 8" REDUCER 2 EA
- 11 INSTALL 5/8" WATER METER AND 1" COPPER SERVICE LATERAL (PER UDACS PLATE No.18) 57 EA
- 12 INSTALL 8" 90° BEND 1 EA
- 13 INSTALL 8" 45° BEND 1 EA
- 14 WET TAP 1 EA
- 15 8"x 8" M.J. TAPPING TEE 1 EA
- 16 8" TAPPING VALVE 1 EA
- 17 INSTALL 3/4" WATER METER AND 1" COPPER SERVICE LATERAL 1 EA (PER UDACS PLATE No.10)
- 18 INSTALL 1" RPPA (PER UDACS PLATE No.11A) 1 EA
- 19 INSTALL IRRIGATION SLEEVES TO 18" BEYOND EDGE OF PAVEMENT (2-4" & 1-8" SCH. 40 PVC CONDUITS) PER SUMMERLIN STD. DWG. NO. U-18 2 EA
- 20 4" SCH.40 PVC IRRIGATION SLEEVES 3 EA
- 21 INSTALL 1" WATER METER AND 1" COPPER SERVICE LATERAL (PER UDACS PLATE No.10) 1 EA
- 22 2" SCH.40 PVC ELECTRICAL CONDUIT 2 EA
- 23 RAISE ELECT. MANHOLE TO MATCH FINISHED GRADE (90.48 TMH - EXIST ELEV.) 90.72 TMH - ADJ. ELEV. 1 EA
- 23 8" DUCTILE IRON PIPE 44 LF

LEGEND

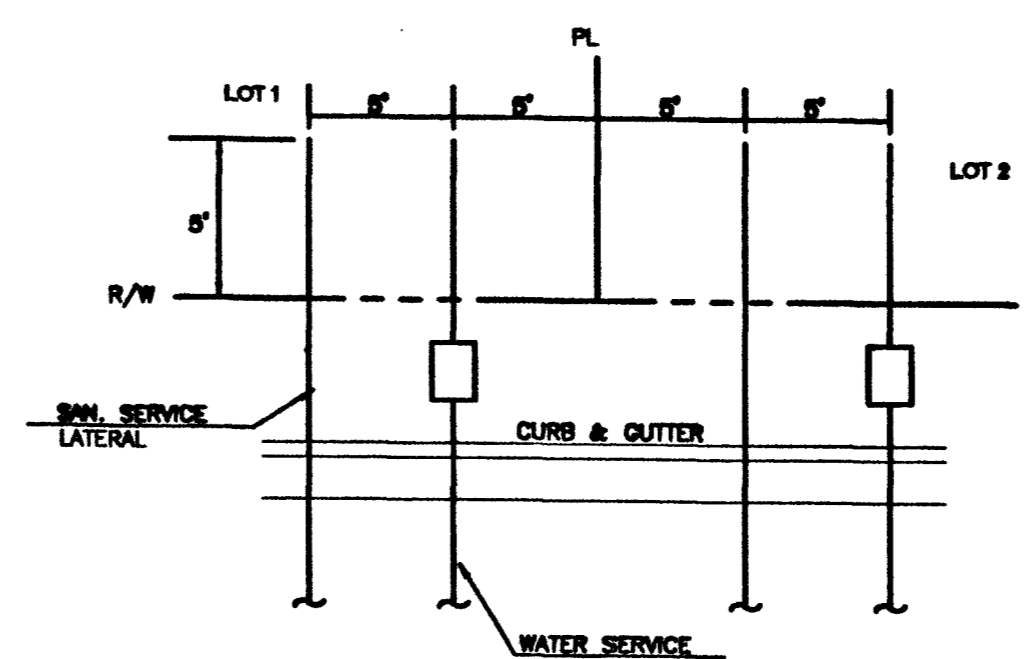


SIGNAGE KEY NOTES

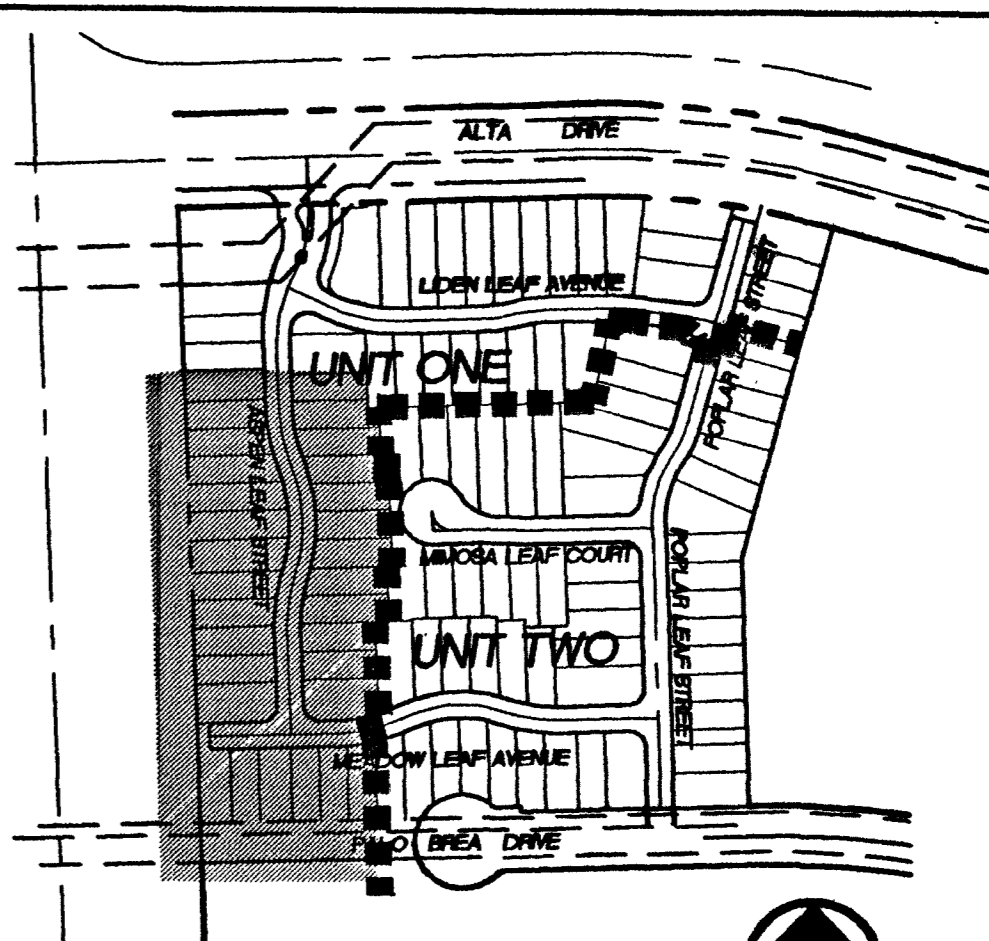
- 1 INSTALL 30"x30" R1-1 (STOP SIGN) UNLESS NOTED OTHERWISE
- 2 INSTALL STREET NAME SIGN PER CLARK COUNTY AREA DWG. NO. 250.
- 3 PAINT CURB RED - NO PARKING

REDUCED PRESSURE PRINCIPLE ASSEMBLY

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE No. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.



TYPICAL UTILITY SERVICE LAYOUT
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

BASIS OF BEARINGS

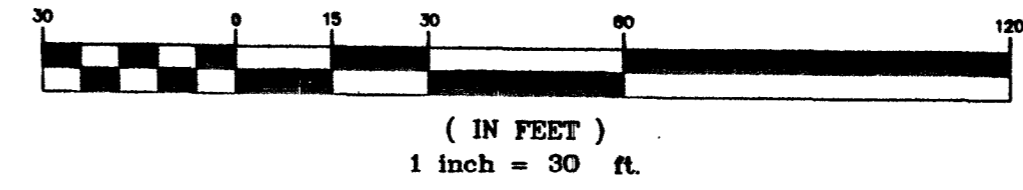
SOUTH 07°49'00" EAST, BEING THE BEARING OF THE CENTERLINE OF ALTA DRIVE, AS SHOWN ON SHEET 5 OF 15 OF BOOK 75 OF PLATS, PAGE 75 OFFICIAL RECORDS OF COUNTY, NEVADA.

BENCHMARK

Elevation = 3064.33 feet (SUMMERLIN datum)
G.C. WALLACE CONTROL MONUMENT No. 188
BEING A 3-1/4" ALUMINUM CAP, MARKED "C.P. 188, PLS 11174", AS SET PER FILE 85 OF SURVEYS, PAGE 17, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA, LYING JUST NORTH OF CHARLESTON BOULEVARD AND JUST EAST OF THE WESTERN SEGMENT OF THE LAS VEGAS BELTWAY.
NOTE: TO CONVERT SUMMERLIN DATUM TO NAVD 88 DATUM, ADD 2.2 FEET TO SUMMERLIN DATUM ELEVATIONS.



NORTH



GENERAL NOTES

- 1. CIVIL CONSULTANTS, INC. SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
- 2. ALL UTILITY INSTALLATION SHALL CONFORM TO THE CITY OF LAS VEGAS STANDARDS, LAS VEGAS VALLEY WATER DISTRICT STANDARDS AND THE UNIFORM PLUMBING CODE.
- 3. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENT HAVE BEEN OBTAINED FROM THE OFFSITE OWNER.
- 4. ALL WORK PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY AND OUTSIDE THE PROJECT BOUNDARY SHALL BE PERFORMED UNDER A SEPARATE ENCROACHMENT PERMIT ISSUED BY THE CONTROLLING AUTHORITY.
- 5. ALL HYDRANTS SHALL BE PLACED A MIN. OF 18" BACK OF SIDEWALK.
- 6. WATER AND SEWER LINES SHALL BE INSTALLED IN SEPARATE TRENCHES WITH AT LEAST TEN (10) FEET OF SEPARATION MEASURED HORIZONTALLY FROM THE EXTERIOR PIPE WALLS.
- 7. ADD 3000' TO ALL ELEVATIONS SHOWN.
- 8. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND VERIFY SIZE, MATERIAL, DEPTH, CONDITION, PRESSURE AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA.
- 9. PLANS MAY NOT INDICATE ALL EXISTING UTILITY LINES. CONTRACTOR IS TO EXERCISE EXTREME CAUTION DURING EXCAVATION IN ORDER TO AVOID DAMAGING ANY EXISTING UTILITY LINES. IF THE UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
- 10. CONTRACTOR IS TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES. BACKFILL AND PATCH ALL TRENCHES ACCORDING TO SUMMERLIN STANDARDS.
- 11. FIRE HYDRANT STATIONING REFERENCES TEE LOCATION.
- 12. IN THE EVENT SEWER LATERAL LOCATIONS ARE PLACED ABOVE WATER LATERALS, OR REQUIRED CLEARANCES ARE NOT MAINTAINED, WATER QUALITY PIPE SHALL BE USED FOR SEWER INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING ANY ADDITIONAL COSTS IN THEIR BIDDING.
- 13. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
- 14. ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. WV, BOX, WMH, ANNODE BOX, FH, TEL. BOX, ETC.)
- 15. THIS SITE IS LOCATED WITHIN THE LAS VEGAS VALLEY WATER DISTRICT (LVWD) 3205 WATER PRESSURE ZONE.

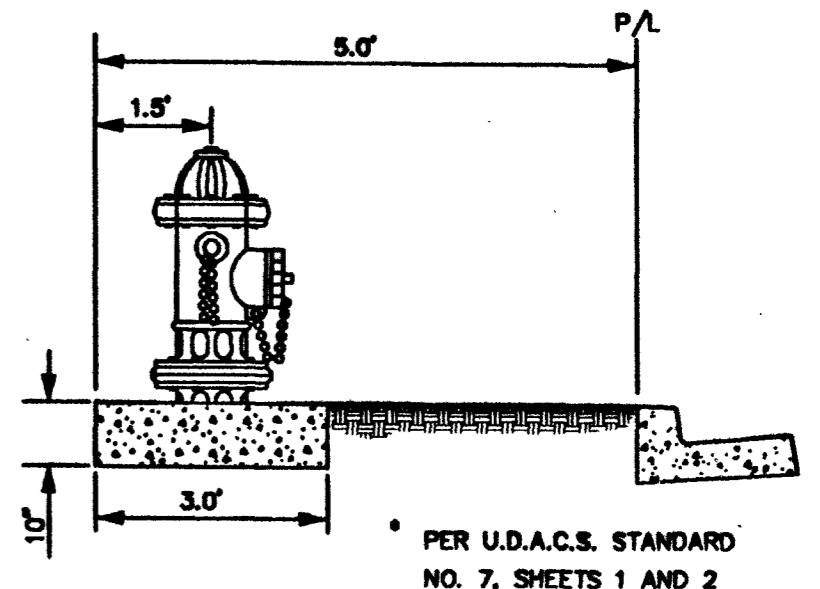
SEWER CONTRIBUTIONS

AVERAGE FLOW..... 0.0015 MGD
PEAK FLOW..... 0.0051 MGD

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS 1500 GPM AT 20 PSI RESIDUAL PRESSURE.
BASED ON:
SQUARE FOOTAGE..... 2,358 S.F.
BUILDING HEIGHT..... 19'
NUMBER OF STORIES..... 1
OCCUPANCY..... SINGLE FAMILY
FULL AUTOMATIC FIRE SPRINKLERS..... NO

REVIEWED BY: *[Signature]* S.A.P. DATE



FIRE HYDRANT DETAIL
NOT TO SCALE

APPROVED FOR CONSTRUCTION ESN.018
[Signature] 6-5-06
LAS VEGAS VALLEY WATER DISTRICT DATE

<p>Kimball Hill Homes 3096 Polo, Mountain Avenue Henderson, Nevada 89052 (702) 897-0213 FAX (702) 897-0169</p>	<p>6280 S. Valley View Blvd. Suite 200 Las Vegas, NV 89116 Tel: (702) 368-3008 Fax: (702) 368-0047</p>
<p>UTILITY PLAN (WEST SECTION)</p>	<p>ASPEN MEADOWS UNIT ONE</p>
<p>DESIGNED BY: SSS CHECKED BY: JML</p>	<p>DATE: 09/29/99</p>
<p>SCALE: 1"=30'</p>	<p>PROJECT NO: 99-8083-03</p>
<p>DATE: 03/01/00</p>	<p>SHEET: U2</p>
<p>5 OF 15 SHEETS</p>	<p>DRAWING NO. 3074-4635-1</p>

AS BUILTS