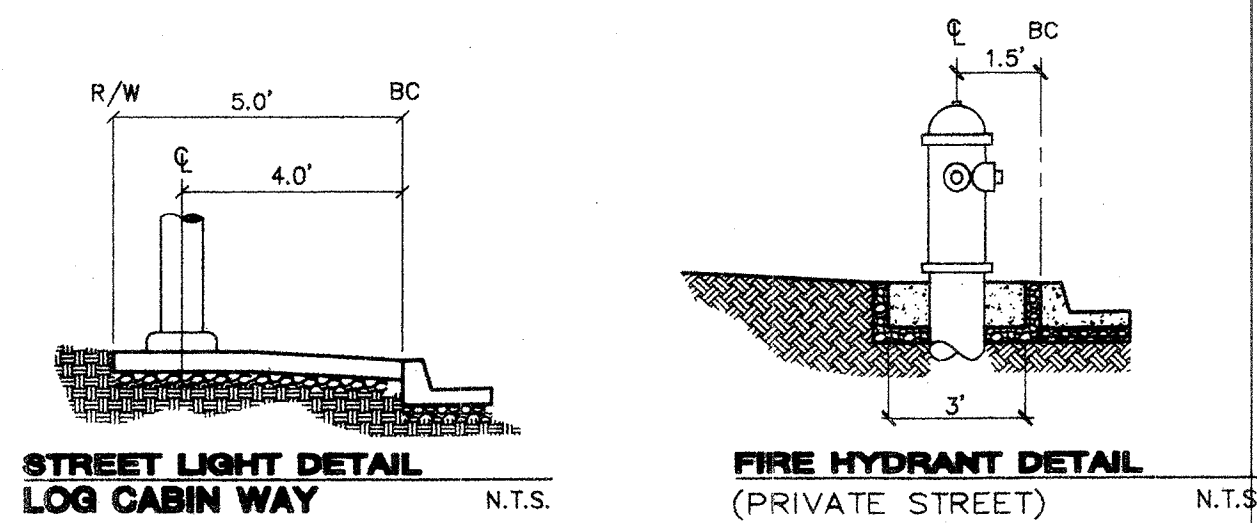




NOTE
INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK BLV90-BNES
NAD83 ELEV. 771.9459 METERS (2532.63 FEET)
BLM BRASS CAP LOCATED AT DURANGO DRIVE AND IRON MOUNTAIN ROAD.

ALL SEWER/STORM DRAIN CROSSINGS WATER LINES MUST CONFORM TO SECTION 2.18 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.06.01 AND 2.06.02.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

BASIS OF BEARINGS

NORTH 89°48'22" WEST - BEING THE BEARING OF THE NORTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 5, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN BY THAT PLAT ON FILE IN THE OFFICE OF THE COUNTY RECORDER, CLARK COUNTY, NEVADA, IN BOOK 92 OF PLATS, AT PAGE 17.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 1,500 GALLONS/MIN. AT 20 LBS./SQ. IN. RESIDUAL.

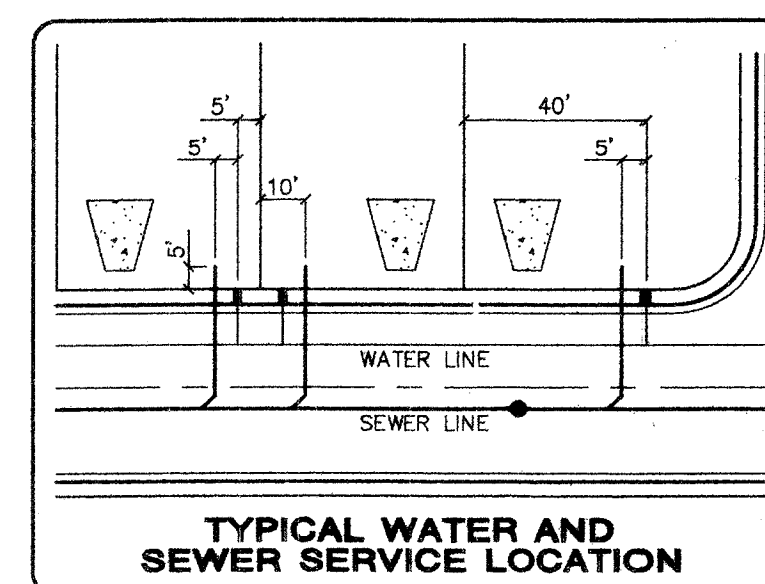
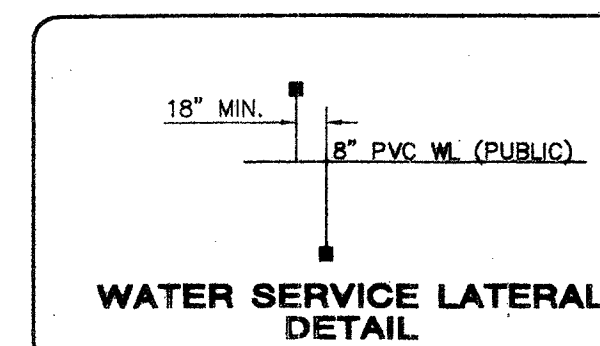
BASED ON:

SQUARE FOOTAGE: 6600
LARGEST AREA BETWEEN SEPARATION WALLS:
HEIGHT: 2 STORY
TYPE OF CONSTRUCTION: V-N
EXPOSURES: 10' MIN.
SPRINKLER SYSTEM: NONE
OCCUPANCY: SINGLE FAMILY RESIDENCE
ROOF CONSTRUCTION: CONCRETE TILE

REVIEWED BY: *MA*
DATE: 1/6/03
PROVIDE FIRE LANE IDENTIFICATION PER CITY ORD. 3677

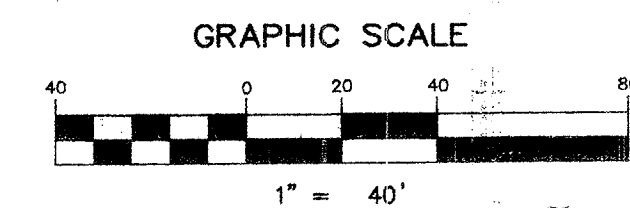
APPROVAL:

LAS VEGAS VALLEY WATER DISTRICT (PROJECT #28333) DATE: 1/21/04
CITY OF LAS VEGAS FIRE MARSHAL DATE: 1/6/03

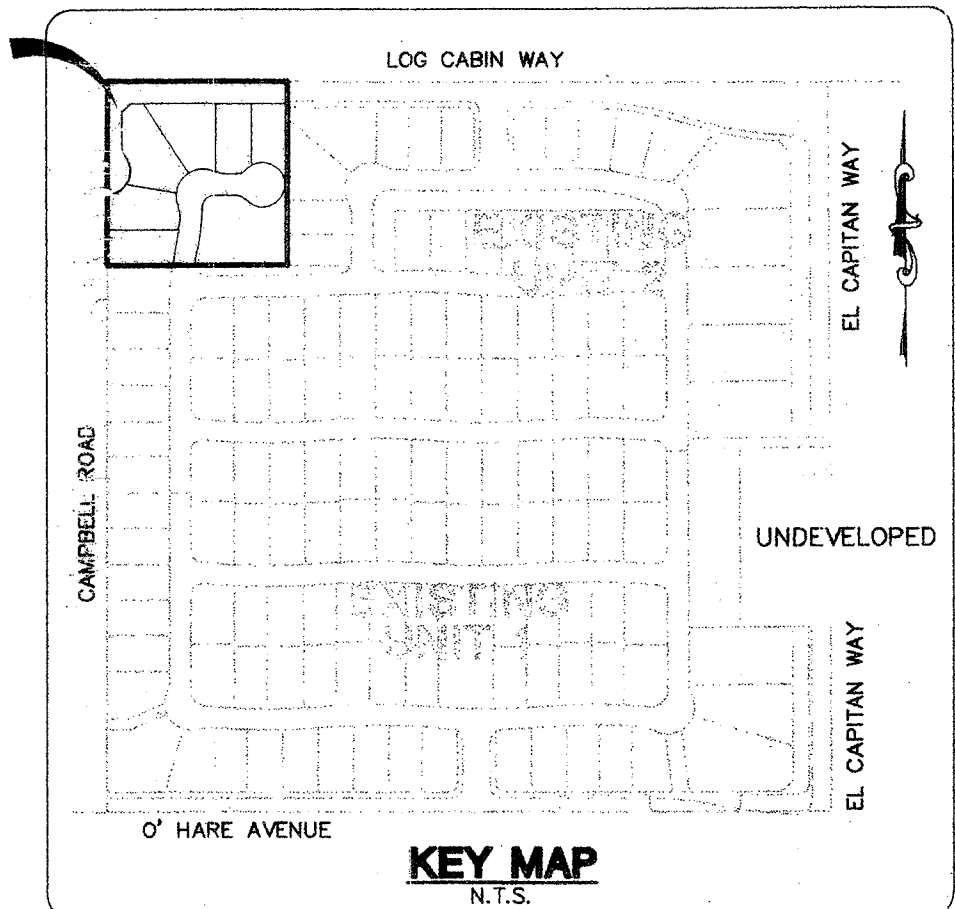


SEWER CONNECTION NOTE

A SEGMENT 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 HAVE BEEN DEEMED AVAILABLE FOR SERVICE.



PROPOSED SITE



CONTRACTOR NOTE

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING IMPROVEMENTS UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

PRIVATE STREET NOTE:

PRIVATE STREETS ARE P.U.E.S. C.L.V. PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

Call before you Dig
1-702-227-2829

Call before you Dig
1-800-227-2800

ESTIMATE OF QUANTITIES/LEGEND

WATER	PUBLIC
1. FIRE HYDRANT ASSEMBLY.....	1 EA.
2. PER UDACS STD. PLATE NO. 7	
3. 8" x 6" REDUCER.....	1 EA.
4. 8" 11K BEND.....	2 EA.
5. CAP W/ 2" B.O. (UDACS PLATE 4A).....	1 EA.
6. 8" 90° ELBOW.....	1 EA.
7. 1" WATER LATERAL (UDACS PLATE 1D).....	2 EA.
8. 3/4" WATER LATERAL (UDACS PLATE 1D).....	6 EA.
9. 8" WATER MAIN (PUBLIC).....	129 LF.
10. 6" WATER MAIN (PUBLIC).....	107 LF.
SEWER	
1. STANDARD MANHOLE.....	3 EA.
2. 4" SEWER LATERALS (PRIVATE).....	246 LF.
3. 4" SEWER WYES.....	8 EA.
4. 8" SEWER MAIN (PUBLIC).....	433 LF.

SEWER CONTRIBUTION (BASED ON 8 LOTS)

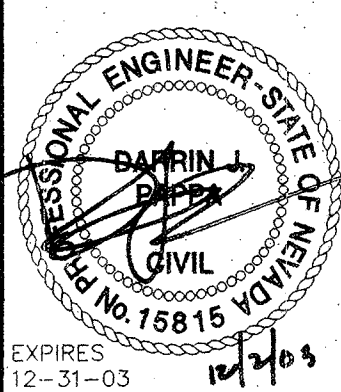
AVERAGE DAILY FLOW =	0.002 MGD.
PEAK FLOW =	0.007 MGD.
DRIVEWAY LOCATION (SCHEMATIC ONLY)	8 EA.
POINT OF CONNECTION (UTILITIES)	2 EA.

STERLING S. DEVELOPMENT
CITY OF LAS VEGAS, NEVADA

MASTER UTILITY PLAN/
STREET LIGHT PLAN

EL CAPITAN / O'HARE
UNIT 3

DRAWN BY:	8/20/03
DESIGNED BY:	9/20/03
CHECKED BY:	8/20/03
PROJECT NO:	SCALE: 1"=40' HORIZ. 1"=4" VERT.



SHEET
C4
4 OF 10 SHEETS
DRAWING NO.
10774732-3

CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS

REVISION

DATE

BY

REV

DATE

BY

REV

DATE

BY

REV