Avoid cutting underground utility lines. It's costly.

Call before you Dig.

1-800-227-2600

UNDERGROUND SERVICE ALERT (USA)

SAFETY ALERT

Call before you Overhead

593-6111

OVERHEAD SERVICE ALERT

ABBREVIATIONS

@	AT
A	ANODE, GAS
ABAN	ABANDON
AC	ASPHALTIC CONCRETE
AGG.	AGGREGATE
ALT	ALTERNATE
APPROX.	APPROXIMATE
ASSY	ASSEMBLY
AVE	AVENUE
B,C, BC	BACK OF CURB
B/W, BW	BACK OF SIDEWALK
BCR	BACK OF CURB RETURN
BDRY LINE	BOUNDARY LINE
BLVD	BOULEVARD
BM	BENCHMARK
C ,CL	CENTERLINE
C&G	CURB AND GUTTER
CATV	CABLE TELEVISION
C—C	CENTER TO CENTER
CC	CLARK COUNTY
CCASD	CLARK COUNTY AREA STANDARD DRAWINGS
CCSD	CLARK COUNTY SANITATION DISTRICT
CF	CURB FACE
CIP	CAST IRON PIPE
CLV	CITY OF LAS VEGAS
CMP	CORRUGATED METAL PIPE
CNLV	CITY OF NORTH LAS VEGAS
CO	CLEAN OUT — SEWER
COL	COLUMN
COMM.	COMMERCIAL
CONC.,PCC	CONCRETE
COND.	CONDUCTOR
CONST.	CONSTRUCTION OR CONSTRUCT
COR	CORNER
CSAP	CORRUGATED STEEL ARCH PIPE
CSP	CORRUGATED STEEL PIPE
CU FT, CF	CUBIC FOOT
CU YD, CY	CUBIC YARD
CULV	CULVERT
D	INCLUDED ANGLE
DEPT	DEPARTMENT
DET	DETAIL
DI	DROP INLET
DIA	DIAMETER
DWG.	DRAWING
DWY	DRIVEWAY
E/o	EAST OF
EA.	EACH
EBS	CATHODE PROTECTION BOND STATION
EC	END OF CURVE
ECR	END OF CURB RETURN
EG	EXISTING GROUND
ELEC, E	ELECTRIC
ELEV.	ELEVATION
EM	ELECTRIC METER
EMBK	EMBANKMENT
EO	EDGE OF OIL
EOP, EP	EDGE OF PAVEMENT
ESMT	EASEMENT
ETS	CATHODE PROTECTION TEST STATION
EVC	END OF VERTICAL CURVE
EXIST., EX.	EXISTING
EXOH	EXISTING OVERHEAD UTILITY
FA	FIRE ALARM
FC, FOC	FACE OF CURB
FD	FOUND
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FT	FOOT/FEET
FUT	FUTURE
G	GAS
GALV	GALVANIZED
GB	GRADE BREAK
GM	GAS METER
GR	GAS PRESSURE REGULATOR
GUT	GUTTER
GV	GAS VALVE
GW	GUY WIRE
HDWL	HEAD WALL
HORIZ	HORIZONTAL
HPG	HIGH PRESSURE GAS
IN	INCH
INT	INTERSECTION
INV	INVERT
ISL	ISLAND
JB	JUNCTION BOX
K	VERTICAL CURVE COEFFICIENT
L	LENGTH
LF	LEFT
LF	LINEAR FOOT
LOC	LENGTH OF CURB
LT	LEFT
LVVWD	LAS VEGAS VALLEY WATER DISTRICT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MON	MONOLITHIC
N/o	NORTH OF
NAP	NOT A PART
NTS	NOT TO SCALE
NVP	NEVADA POWER COMPANY
OC	ON CENTER
OG	OPEN-GRADED PAVEMENT, ORIGINAL GROUND
OHE, OHP	OVERHEAD ELECTRIC/POWER
P	POWER
PB	PULL BOX
PC	POINT OF CURVE

25740

LEGEND

EXISTING	PROPOSED	
		RIGHT OF WAY
		CENTERLINE OF STREET
		CHAIN LINK FENCE
		STEEL ENCASED WATER LINE
		PERMANENT A.C. PATCH OR A.C. R&R AS NOTED ON PLAN
		UTILITY TO BE ABANDONED
		FIRE HYDRANT
		GUY POLE
		POWER POLE
		SANITARY SEWER MANHOLE
		SHRUB/BUSH
		SIGN
		STORM DRAIN MANHOLE
		STREET LIGHT
		TREE
		WATER METER
		WATER VALVE
		WHEEL CHAIR ACCESS

ABBREVIATIONS (CONT'D)

PCC	POINT OF COMPOUND CURVE
PCC, CONC	PORTLAND CEMENT CONCRETE
PI	POINT OF INTERSECTION
PKWY	PARKWAY
PL	PROPERTY LINE
PL-G	PLASTIC GAS
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
PZ	PRESSURE ZONE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R, RAD	RADIUS
R/W, ROW	RIGHT-OF-WAY
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REINF	REINFORCED
RELOC	RELOCATE
RET	RETAIN
RR	RAILROAD
RT	RIGHT
S/o	SOUTH OF
S/W	SIDEWALK
S-G	STEEL GAS
SD	STORM DRAIN
SHP	STEEL HIGH PRESSURE PIPE
SHT	SHEET
SL	STREETLIGHT
SQ FT, SF	SQUARE FOOT
SQ YD, SY	SQUARE YARD
SS	SANITARY SEWER
ST	STREET
STA	STATION
STD	STANDARD
STRUCT	STRUCTURAL OR STRUCTURE
SURV	SURVEY
SW	SIDEWALK
T	TELEPHONE
TBA	TO BE ADJUSTED
TBR	TO BE REMOVED
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY
TMH	TOP OF MANHOLE
TOF	TOP OF FOOTING
TOP	TOP OF PIPE
TOW	TOP OF WALL
TRANS	TRANSITION
TS	TRAFFIC SIGNAL
TSI	TRAFFIC SIGNAL INTERCONNECT
TYP	TYPICAL
UG	UNDERGROUND
USD	UNIFORM STANDARD DRAWING
USS	UNIFORM STANDARD SPECIFICATION
VAR	VARIES OR VARIABLE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VG	VALLEY GUTTER
W	WATER
W/	WITH
W/o	WEST OF
WC	WHEEL CHAIR
WM	WATER METER
WV	WATER VALVE
YD	YARD

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

LVVWD Project #: 21702

1. No work shall begin until the water plans have been released for construction by the LVVWD. Following water plan approval, 48 hours 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 to 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 Improvement, 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 waterline and sanitary or storm sewer line cross:

A minimum eighteen (18) inch vertical separation (outside to outside) must be maintained when the waterline 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 main, a minimum 10 foot distance perpendicular to the water main exterior.

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 N. 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 PM and 6 AM, 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.

APPROVED BY

LAS VEGAS VALLEY WATER DISTRICT — DATE 1-21-00

GENERAL NOTES

1. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER AND THE CITY OF LAS VEGAS ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
2. CONTRACTOR SHALL RESTORE ANY EXISTING CROSSWALK STRIPING AND LANE STRIPING TO MATCH EXISTING.
3. ADD 2100 FT TO PROPOSED ELEVATIONS FOR ACTUAL ELEVATION ABOVE SEA LEVEL.

BASIS OF BEARINGS

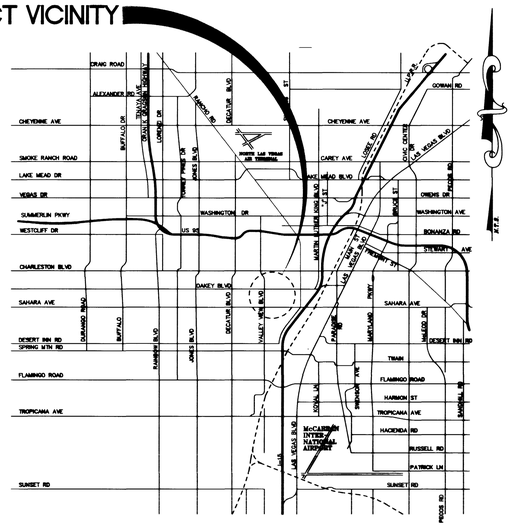
CENTERLINE OF VALLEY VIEW BOULEVARD, BEARS S 00°05'17" W AS SHOWN ON SPANISH OAKS 8 IN BOOK 22 PAGE 25 OF PLATS IN THE RECORDER'S OFFICE OF CLARK COUNTY, NEVADA.

BENCHMARK

RIVET & PLATE IN TOP OF CURB, NE RETURN SAHARA AND SPANISH OAKS
BENCHMARK # 7C115SSWS
BENCHMARK ELEV.=2131.809 FEET NAVD88

SHEET INDEX

PROJECT VICINITY



VICINITY MAP

DEPARTMENT OF PUBLIC WORKS	
ENGINEERING DESIGN SECTION	
ACTING CITY ENGINEER:	JERRY WALKER, P.E.
PROJECT MANAGER:	ED METTENSTROM, P.E.
DESIGNED BY: MAS	HORIZONTAL SCALE: N/A
DRAWN BY: MAS/ESM	VERTICAL SCALE: N/A
CHECKED BY:	DATE: 1/1/99

REVISIONS			
NO.	DATE:	DESCRIPTION	APP'D
1	2-17->	ADDED SHEET 9	

TITLE: VALLEY VIEW STORM DRAIN PHASE 1 - UPPER SYSTEM

SHEET: GENERAL NOTES

1-20-00

Sheet N-1

2 of 9

DRAWING NO. 327-V259

BID#: 00.1730.21