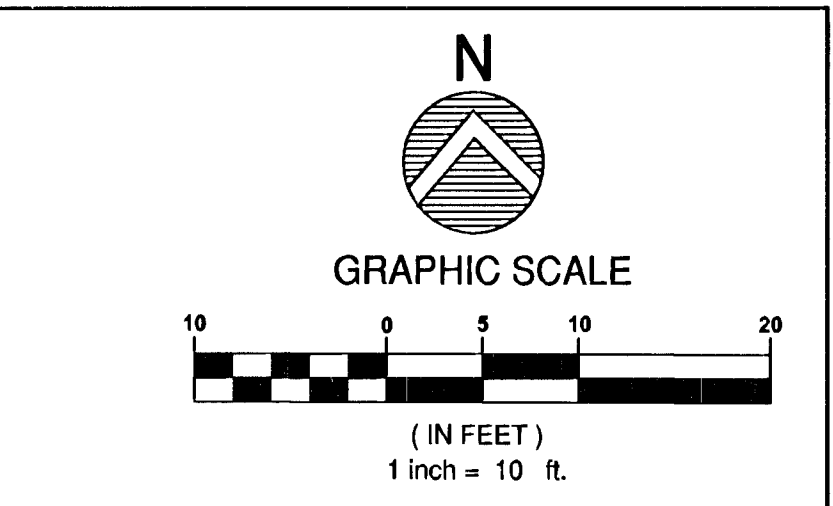
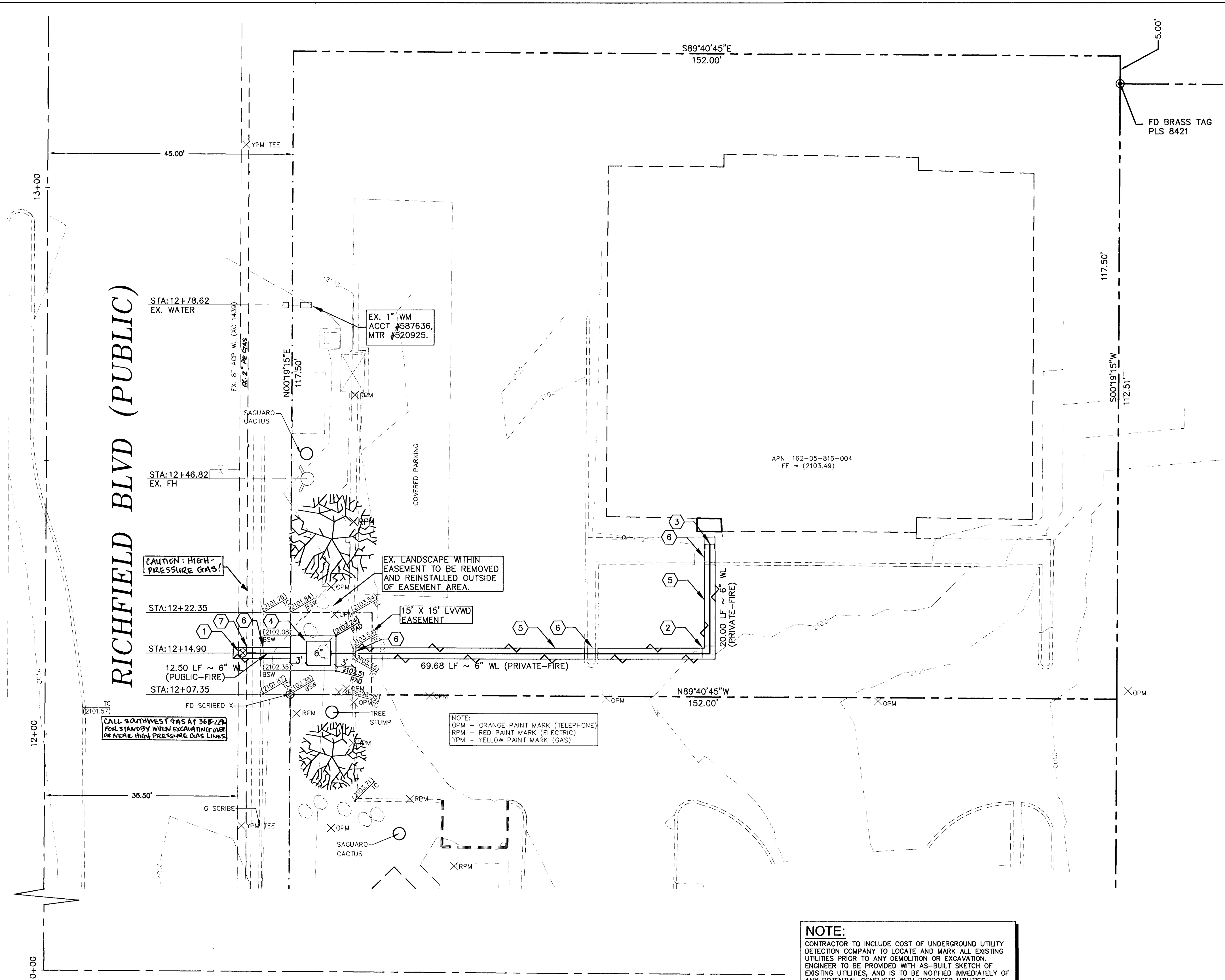


ABBREVIATIONS		
AC	ADJUST	ASPHALTIC CONCRETE
ADJ	ADJUST	
AGS	AGGREGATE	
BC	BACK OF CURB	
BCR	BEGINNING OF CURB RETURN	
BEG	BEGIN	
BSW	BACK OF SIDEWALK	
BVC	BEGINNING OF VERTICAL CURVE	
CATV	CABLE TV	
CCAUUSD	CLARK COUNTY AREA	
CCRFCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT	
CL	CENTERLINE	
CLV	CITY OF LAS VEGAS	
CMU	CONCRETE MASONRY UNIT	
CO	CLEAN OUT	
COMM	COMMUNICATIONS	
CONC	CONCRETE	
COND	CONDUIT	
CULV	CULVERT	
DC	DEPRESSED CURB	
DI	DROP INLET	
DIP	DUCTILE IRON PIPE	
DOM	DOMESTIC	
ELEC	ELECTRIC	
EAC	EDGE OF AC	
EC	END OF CURVE	
ECR	END OF CURB RETURN	
ELEV	ELEVATION	
EP	EDGE OF PAVEMENT	
EVC	END OF VERTICAL CURVE	
EX	EXISTING	
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION	
FF	FINISH FLOOR	
FG	FINISH GRADE	
FH	FIRE HYDRANT	
FL	FLOW LINE	
FO	FIBER OPTICS	
FS	FINISHED SURFACE	
G	GAS	
GB	GRADE BREAK	
HDPE	HIGH DENSITY POLYETHYLENE	
HDWL	HEADWALL	
HGL	HYDRAULIC GRADE LINE	
HP	HIGH POINT	
INV	INVERT	
IRR	IRRIGATION	
LAT	LATERAL	
LF	LINEAL FEET	
LS	LANDSCAPE	
LT	LEFT	
LVWD	LAS VEGAS VALLEY WATER DISTRICT	
MAX	MAXIMUM	
MH	MANHOLE	
MIN	MINIMUM	
MTR	METER	
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION	
PB	PULL BOX	
PL	PROPERTY LINE	
PP	POWER POLE	
PROP	PROPOSED	
PVC	POLY VINYL CHLORIDE PIPE	
PVMT	PAVEMENT	
RT	RIGHT	
ROW	RIGHT-OF-WAY	
SS	SANITARY SEWER	
SD	STORM DRAIN	
SNWA	SOUTHERN NEVADA WATER AUTHORITY	
STA	STATION	
STLT	STREET LIGHT	
SVZ	SIGHT VISIBILITY ZONE	
SW	SIDEWALK	
TEL	TELEPHONE	
TC	TOP OF CURB	
TF	TOP OF FOOTING	
TW	TOP OF WALL	
TYP	TYPICAL	
UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS	
VG	VALLEY GUTTER	
WL	WATER LINE	
LEGEND		
DESCRIPTION	EXISTING	PROPOSED
UTILITIES		
B.O. VALVE		
FIRE HYDRANTS		
CLEAN OUT		
GATE VALVE		
METER		
REDUCER		
CAP		
11 25' ELBOW		
22 5' ELBOW		
45' ELBOW		
90' ELBOW		
CROSS		
TEE		
MANHOLES		
ELECTRICAL		
SANITARY SEWER		
STORM DRAIN		
TELEPHONE		
STREET LIGHTS		
100W HPS SLT		
150W HPS SLT		
200W HPS SLT		
250W HPS SLT		
400W HPS SLT		
GRADING		
SPOT ELEV.		
SLOPE		
5' CONT.		
1' CONT.		
SITE		
SIGN		
"L" CURB		
"A" CURB		
EDGE OF PAVT.		
WALL		
LINE TYPES		
CL OR SECTION LINE		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
EASEMENT LINE		
SAWCUT LINE		
FLOW LINE		
SHADES		
HEAVY AC PAVEMENT		
LIGHT AC PAVEMENT		
CONCRETE PAVEMENT		



- WATER CONSTRUCTION NOTES:**
- 1. INSTALL 8 X 6 TAPPING SLEEVE W/8\"/>

FIRE FLOW CALCULATIONS

BASED ON:

SQUARE FOOTAGE:	5180
LARGEST AREA BETWEEN SEPARATION WALL:	NON-SEPARATED
BUILDING HEIGHT:	19'
NUMBER OF STORIES:	1
TYPE OF CONSTRUCTION:	V-B
EXPOSURES:	NA
SPRINKLER SYSTEM:	YES
OCCUPANCY:	B
ROOF CONSTRUCTION:	-
FLOW REQUIRED @ 20 PSI RESIDUAL:	1500
MAX. STORAGE HEIGHT:	NA

EX. STATIC WATER PRESSURE IS .85 ± psi IN STREET.

UTILITY CROSSING NOTE:

THE FOLLOWING SEPARATIONS MUST BE MAINTAINED BETWEEN ALL STORM AND SANITARY SEWER MAINS WHICH CROSS WATER MAINS SIX (6) INCHES AND LARGER.

A. SEWER MAINS SHALL BE PLACED BELOW WATER MAINS, AND SHALL BE SEPARATED VERTICALLY BY AT LEAST EIGHTEEN (18) INCHES BETWEEN EXTERIOR PIPE WALLS.

B. WHERE THE WATER MAIN IS BELOW THE SEWER MAIN, OR WHERE THE WATER MAIN IS ABOVE THE SEWER MAIN WITH A VERTICAL SEPARATION LESS THAN EIGHTEEN (18) INCHES, THE FOLLOWING PROVISIONS SHALL APPLY:

1. A REASONABLE EFFORT MUST BE MADE TO PLACE WATER AND SEWER PIPELINE JOINTS AN EQUAL DISTANCE FROM THE CROSSING POINT. THIS REQUIREMENT DOES NOT APPLY TO WELDED JOINTS.

2. A VERTICAL SEPARATION OF NO LESS THAN SIX (6) INCHES MUST BE MAINTAINED AND STRUCTURAL SUPPORT FOR THE SEWER AND/OR WATER MAIN BE DETERMINED BY THE ENGINEER AND APPROVED BY THE AGENCY HAVING JURISDICTION.

3. THE SEWER MAIN WILL BE CONSTRUCTED USING ONE OF THE FOLLOWING OPTIONS, IN THE FOLLOWING PRIORITY, OR AS APPROVED BY THE AGENCY:

a. THE SEWER MAIN MUST BE CONSTRUCTED OF WATER SUPPLY QUALITY MATERIALS MEETING AWWA STANDARDS.

b. THE SEWER MAIN OR WATER MAIN MAY BE INSTALLED IN A STEEL SLEEVE OR A SLEEVE OF WATER QUALITY PIPE WHICH EXTENDS TEN (10) FEET PERPENDICULAR ON EACH SIDE OF THE MAIN. (SEE "UDACS PLATE 23".)

c. THE SEWER MAIN, DEPENDING ON FIELD CONDITIONS) SHALL BE TOTALLY ENCASED IN A MINIMUM OF FOUR (4) INCHES OF CEMENT SLURRY (CLSM II) FOR A DISTANCE OF TEN (10) FEET ON EACH SIDE OF THE CROSSING.

d. THE ENGINEER MAY PETITION THE AGENCY FOR APPROVAL TO ENCASE THE WATER MAIN (DEPENDING ON FIELD CONDITIONS) IN A MINIMUM OF FOUR (4) INCHES OF CEMENT SLURRY (CLSM II) FOR A DISTANCE OF TEN (10) FEET ON EACH SIDE OF THE CROSSING. ENCASEMENT WILL NOT BE PERMITTED FOR ASBESTOS CEMENT PIPE.

NOTE:

CONTRACTOR TO INCLUDE COST OF UNDERGROUND UTILITY DETECTION COMPANY TO LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO ANY DEMOLITION OR EXCAVATION. ENGINEER TO BE PROVIDED WITH AS-BUILT SKETCH OF EXISTING UTILITIES, AND IS TO BE NOTIFIED IMMEDIATELY OF ANY POTENTIAL CONFLICTS WITH PROPOSED UTILITIES AND/OR FINISHED GRADES.

LAS VEGAS FIRE AND RESCUE APPROVAL

By: *Scott Ziemer* DATE: *2/23/12*

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

RLH DATE: *2-27-12*

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 117082
LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCE

TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

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.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (1) 6"

THE REDUCED PRESSURE DETECTOR ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 56. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

WATER NOTES:

ALL CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH WHICHEVER EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS) THAT WAS ADOPTED BY THE AGENCY.

NOTICE: POINT OF CONNECTION

CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONSTRUCTION ACTIVITIES AND CONSTRUCTION OF SANITARY SEWER AND SEWER LATERALS OF ALL INVERT ELEVATIONS. ONCE INVERT INFORMATION IS RECEIVED, THE SLOPE AND INVERTS WILL BE REVISED ACCORDINGLY. IF THE CONTRACTOR DOES NOT PROVIDE THE INFORMATION, THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE SANITARY SEWER DESIGN.

SEWER/WATER MAIN LOCATION NOTE:

CONTRACTOR TO FIELD LOCATE AND VERIFY EXISTING WATER AND SEWER LINE LOCATIONS PRIOR TO CONSTRUCTION NOTIFY OWNER, ARCHITECT & ENGINEER IN CASE OF DISCREPANCIES.

UTILITY CROSSING NOTE:

CONTRACTOR SHALL LOCATE ALL UTILITIES. WHERE UTILITY CROSSINGS EXIST, THE CONTRACTOR SHALL CONSTRUCT UTILITIES PER CODE. THE CONTRACTOR IS RESPONSIBLE TO REPAIR ANY UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.

BASIS OF BEARING

SOUTH 00°19'15" WEST, BEING EAST LINE OF LOT 2-2, AS SHOWN BY MAP TREC OF ON FILE IN FILE # 69 OF PLATS, PAGE 11 OF SURVEYS, IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK: 7011 5SSW6

RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF SAHARA & SPANISH OAKS.

ELEV. = 649.734 (METRIC)
2131.67 (US SURVEY FEET)

SAFETY ALERT

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Call 811

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1-702-432-5300
1-702-227-2929

Call before you Dig

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ZUFFA PRODUCTIONS

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OWNER/DEVELOPER: ETHOS THREE
8885 S. EASTERN AVENUE
LAS VEGAS, NV 89123
PHONE: 702-458-1070
CONTACT: JOHN LOPEMAN

UTILITY PLAN

SHEET # *1124112* 3 OF 3

10765756

PRINTS REQUIRE ENGINEER'S SEAL AND SIGN FOR PROOF OF VALIDITY

BRANDON A. POTTS
Exp: 12/31/13
CIVIL