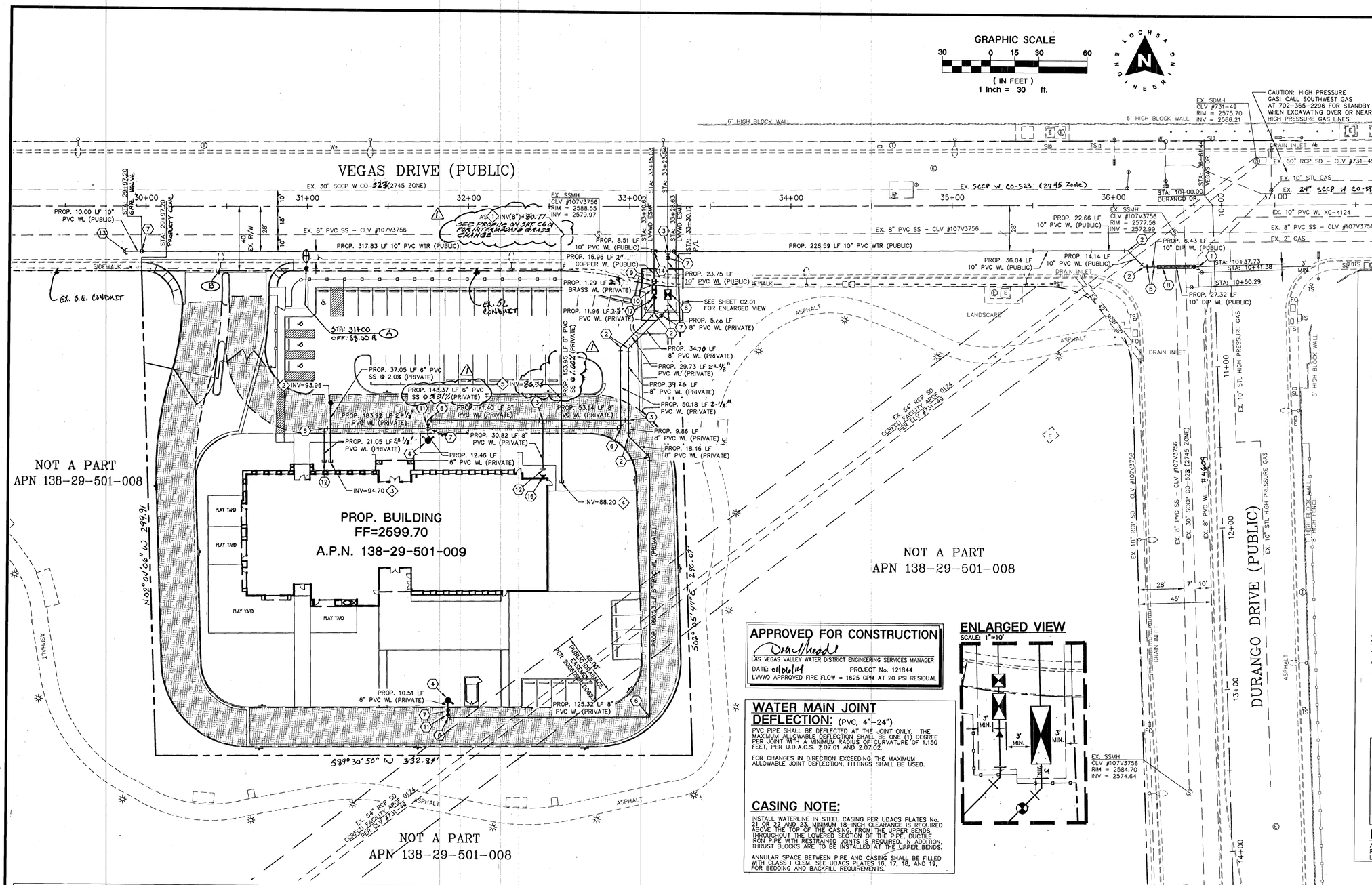

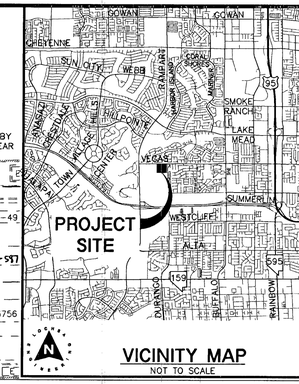

VICINITY MAP

NOT TO SCALE

WATER CONSTRUCTION NOTES:

– ALL WATER CONSTRUCTION TO BE DONE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS)" LATEST EDITION.
– NOT ALL NOTES USED ON THIS SHEET –
– ALL WATER LINES 4" OR GREATER TO BE CL. 150, C900 PVC. ALL WATER LINES SMALLER THAN 4" TO BE SCH. 40 PVC. ALL WATER LINES CONNECTED TO REMOTE FIRE DEPT. CONNECTIONS TO BE CL. 200, C900 PVC.
– THRUST BLOCKS TO BE CONSTRUCTED PER UDACS PLATE No. 31. THRUST BLOCKS TO BE LOCATED AT ALL ANGLE FITTINGS (BENDS), CROSSES, TEE'S, PLUGS, CAPS, AND FIRE HYDRANTS. ANCHOR BLOCKS TO BE CONSTRUCTED, PER UDACS PLATE No. 30. ANCHOR BLOCKS TO BE LOCATED AT ALL IN-LINE REDUCERS AND GATE VALVES.

1. INSTALL 10"x10" TAPPING SLEEVE & 10" TAPPING VALVE PER UDACS 2.24.01 (A) PLATES NO. 34 & 39.
2. INSTALL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
3. INSTALL TEE (SAME SIZE AS PIPES). PER UDACS PLATE NO 31.
4. INSTALL FIRE HYDRANT W/GATE VALVE PER UDACS PLATE NO. 40.
5. INSTALL VERTICAL 45° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
6. INSTALL 10" RPDA PER UDACS PLATE NO. 59.
7. INSTALL GATE VALVE (SAME SIZE AS PIPE). PER UDACS PLATE NO 30 AND 39.
8. INSTALL WATERLINE IN STEEL CASING PER UDACS PLATES NO. 21 OR 22 AND 23. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE CASING AND UPPER BENDS THORUGH THE LOWER SECTION OF THE PIPE. DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS. ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS I CLSM. SEE UDACS PLATES 16, 17, 18 AND 19, FOR BEDDING AND BACKFILL REQUIREMENTS.
9. INSTALL 2" WATER SERVICE & METER PER UDACS PLATE No.4.
10. INSTALL 2" RPPA PER UDACS PLATE NO. 8.
11. INSTALL REDUCER (SAME SIZE AS PIPES) W/ THRUST BLOCK PER UDACS PLATE NO. 30.
12. STUB & CAP WATER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
13. INSTALL 10" CAP AND 2" BLOW OFF. PER UDACS PLATE 36.
14. INSTALL 10"X2" SERVICE SADDLE AND CORP. STOP PER UDACS PLATE NO. 4.
15. INSTALL 90° BEND W/THRUST BLOCK (SAME SIZE AS PIPE) PER UDACS PLATE NO. 31.
16. INSTALL FIRE DEPARTMENT CONNECTION
17. INSTALL 3"x2½" INCREASER

SEWER CONSTRUCTION NOTES:

– NOT ALL NOTES USED ON THIS SHEET –

ALL GRAVITY SANITARY SEWER LINES TO BE SDR-35 PVC.

1. INSTALL LATERAL CONNECTION PER DCSWCS DWG. No. SD-22.
2. INSTALL CLEAN OUT TRAFFIC RATED BOX.
3. STUB & CAP SANITARY SEWER SERVICE. REFER TO PLUMBING PLANS FOR CONTINUATION.
4. STUB & CAP SANITARY SEWER SERVICE FOR FUTURE USE.
5. INSTALL WYE.

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: Dat Yuen DATE: 9/9/13

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 1625 GPM AT 20 P.S.I. RESIDUAL.

FIRE DEPARTMENT APPROVAL

APPROVAL BY THE FIRE DEPARTMENT HAVING JURISDICTION IS REQUIRED PRIOR TO OBTAINING FINAL APPROVAL FROM THE LAS VEGAS VALLEY WATER DISTRICT.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

DATE: 01/06/14 PROJECT No. 121844

LVVWD APPROVED FIRE FLOW = 1625 GPM AT 20 PSI RESIDUAL

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 U.D.A.C.S. 2.07.01 AND 2.07.02.

FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

CASING NOTE:

INSTALL WATERLINE IN STEEL CASING PER UDACS PLATES No. 21 OR 22 AND 23. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE CASING. FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF THE PIPE, DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS.

ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS I CLSM. SEE UDACS PLATES 16, 17, 18, AND 19, FOR BEDDING AND BACKFILL REQUIREMENTS.

ENLARGED VIEW

SCALE: 1"=10'

GENERAL UTILITY NOTES:

1. STATIC WATER PRESSURE IN ZONE 2745 = 63 PSI±.
2. THE FIRE SAFETY CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE SIZE OF PIPING REQUIRED TO CONNECT FROM THE FIRE WATER LOOP TO THE FIRE SPRINKLER RISER. LINE SIZE SHOWN FOR INFORMATION PURPOSES ONLY.
3. TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED PER UDACS PLATE No. 17, EXCEPT WITHIN NDOT RIGHT OF WAYS. TRENCH BACKFILL TO BE CONSTRUCTED PER UDACS PLATE No. 18.
4. ONLY SEWER LINES AND LATERALS MAY BE INSTALLED IN TRENCHES EXCAVATED FOR SEWER LINES. SEE DCSWCS SECTION 2.2.18 (TYPICAL).
5. WATER AND SEWER TO BE INSTALLED IN SEPERATE TRENCHES WITH AT LEAST 10' MINIMUM SEPERATION FROM EXTERIOR PIPE WALLS (TYPICAL). SEE UDACS SECTION 2.22.
6. CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES AS INDICATED ON DETAILS AND/OR ACCORDING TO THE GOVERNING ENTITY.
7. THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE GREAT CARE DURING EXCAVATION IN ORDER TO AVOID MAKING CONTACT WITH ANY EXISTING UTILITY LINES. IF UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
8. CONTRACTOR TO LOCATE AND VERIFY SIZE, LINE TYPE, CONDITION, DEPTH, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CIVIL ENGINEER SHALL BE CONTACTED ONCE THE UTILITY LINE IS LOCATED.
9. CONTRACTOR/OWNER TO OBTAIN CITY OF LAS VEGAS OFF-SITE IMPROVEMENT PERMIT FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.
10. CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND SIZE WITH PLUMBING PLANS PRIOR TO INSTALLATION OF NEW UTILITIES.
11. ALL EXISTING STREET LIGHTS INDICATED ON THESE PLANS ARE SHOWN FOR INFORMATION PURPOSES ONLY. LOCATION IS APPROXIMATE UNLESS NOTED WITH STATION AND OFFSET.
12. ALL EXISTING GAS LINE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATIONS ONLY. PROPOSED GAS LINES SHOWN ON THESE PLANS ARE FOR COORDINATION ONLY. SEE SOUTHWEST GAS PLANS FOR CONSTRUCTION.
13. ALL DIMENSIONS TO UTILITIES LINES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.
14. ALL LINEAR FEET OF STORM DRAIN AND SANITARY SEWER PIPE NOTED ON PLANS IS MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

NOTE:

INSTALL PIPELINE MARKERS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 15.

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

TREE'S, 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.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA): (1) 2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE U.D.A.C.S. PLATE No. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACK FLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

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.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA): (1) 10"

THE REDUCED PRESSURE DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE No. 34.

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 TO THE VAULT(S) FROM THE ADJACENT RIGHT-OF-WAY.

EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

NOTE:

ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

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.

NOTE:

ALL ABOVE GROUND UTILITY SHALL COMPLY WITH TITLE 19.08.010 UTILITY SCREENING REQUIREMENTS. ALL ABOVE GROUND UTILITIES GREATER THAN 27 CUBIC FEET SHALL BE SETBACK A MINIMUM OF 3 FEET FROM THE BACK OF SIDEWALK AND SHALL INCLUDE VEGETATION THAT UPON MATURITY WILL ADEQUATELY SCREEN SUCH EQUIPMENT FROM PUBLIC VIEW.

FIRE FLOW CALCULATIONS

BASED ON:

SQUARE FOOTAGE:	13,477
LARGEST AREA BETWEEN 4 HR. AREA SEPARATION WALLS:	N/A
BUILDING HEIGHT:	30'
NUMBER OF STORIES:	1
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY:	E, A-3
SPRINKLER SYSTEM:	YES
EXPOSURES:	4
ROOF CONSTRUCTION:	TPO OVER VB
FLOW REQUIRED @ 20 PSI RESIDUAL:	1625 GPM
MAX. STORAGE HEIGHT:	N/A
EX. STATIC WATER PRESSURE IS 72± psi IN STREET.	

(A) INSTALL RELOCATED STREETLIGHT STANDARD ON STREETLIGHT FOUNDATION PER CCRAMSD 320 & 321. INTERCEPT EX. CONDUIT AND REPULL CONDUCTORS.

(B) RELOCATE EX. STREETLIGHT. REMOVE FOUNDATION AND CONNECT EX. STREETLIGHT CONDUIT. REPULL CONDUCTORS.

A.P.N.:

138-29-501-009

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 29, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN ON THAT MAP ON FILE IN FILE 182 OF SURVEYS, PAGE 66 IN THE RECORDER'S OFFICE, CLARK COUNTY, NEVADA. SAID LINE BEARS NORTH 89°30'10" EAST.

BENCHMARK:

CITY OF LAS VEGAS BENCHMARK NO. 0LV00 21SWS. BEING A RIVET AND PLATE IN THE TOP OF CURB ON THE NORTH SIDE OF VEGAS DRIVE AT DURANGO. ELEV=2577.57 FEET NAVD 88 =785.645 METERS

NOTE:

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

SAFETY ALERT

Call Before You Overhead

1-702-227-2929

AVOID DETOUR DELAYS, TRAFFIC SIGNS, AND STREET LIGHT SYSTEM CONDUITS ARE LOCATED

Call before you UnderGround

Call 811

1-702-432-5300 OR 1-800-227-2600

LEGEND

CL OR SURVEY LINE	EASEMENT LINE	DESCRIPTION:	CONTOUR LINES	EDGE OF PAVEMENT	"A" TYPE CURBS	"L" TYPE CURBS	WALLS	FENCES	AC PAVEMENT	CONCRETE	SPOT ELEVATIONS	SIGNS	MANHOLE W/ DESCRIPTION	MANHOLE DESCRIPTIONS	FIRE HYDRANTS	GATE VALVES	REDUCERS	CLEAN OUTS	UTILITY BOX OR VAULT	BACKWATER VALVES	100w HPS STREETLIGHTS	150w HPS STREETLIGHTS	200w HPS STREETLIGHTS	250w HPS STREETLIGHTS
PROPERTY LINE	SAWCUT LINE	EXISTING:	(2210)								(12.34) BC		Ⓢ	Ⓢ = SANITARY SEWER						BWV				
ROW LINE	SCARP LINE	PROPOSED:	2122								12.34 BC		Ⓓ	Ⓓ = STORM DRAIN						BWV				
														Ⓔ = ELECTRICAL										
														Ⓣ = TELEPHONE										

REV.:	DATE:	BY:	DESCRIPTION:
1	08-12-14	GM	Revised Sewer Lateral

6345 South Jones Blvd
Suite 100
Las Vegas, NV 89118
(702) 362-8672
Fax (702) 362-5837
www.lochsa.com
Lochsa engineering

UTILITY PLANS
UTILITY PLAN

BET YOSSEF COMMUNITY CENTER OF LAS VEGAS
8551 VEGAS DRIVE

PROJECT No.:	131007
DATE:	08/19/13
SCALE:	1"=30'
DRAWN BY:	JLI
DESIGNED BY:	JLI
CHECKED BY:	GMM

SEAL: GUY M. MORRIS, STATE OF NEVADA, EXP. 12-31-15, CIVIL, No 14526, 08-19-13

SHEET No.
C2.01
SHEET 3 OF 12.

H# 49364
10776131