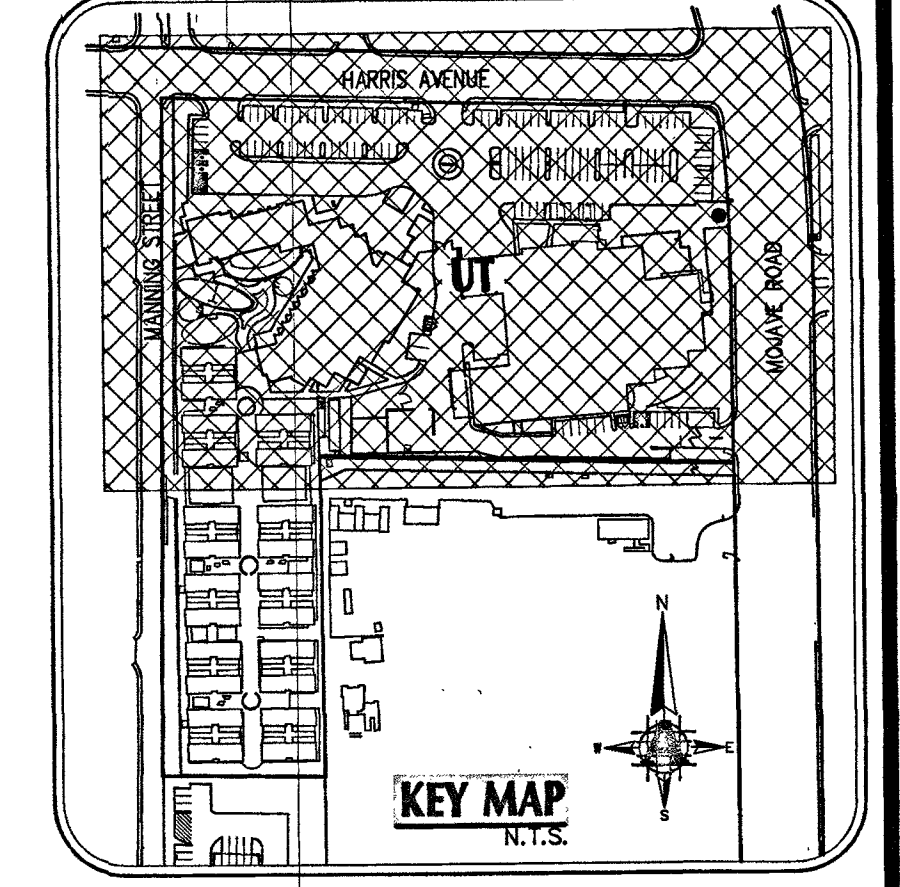
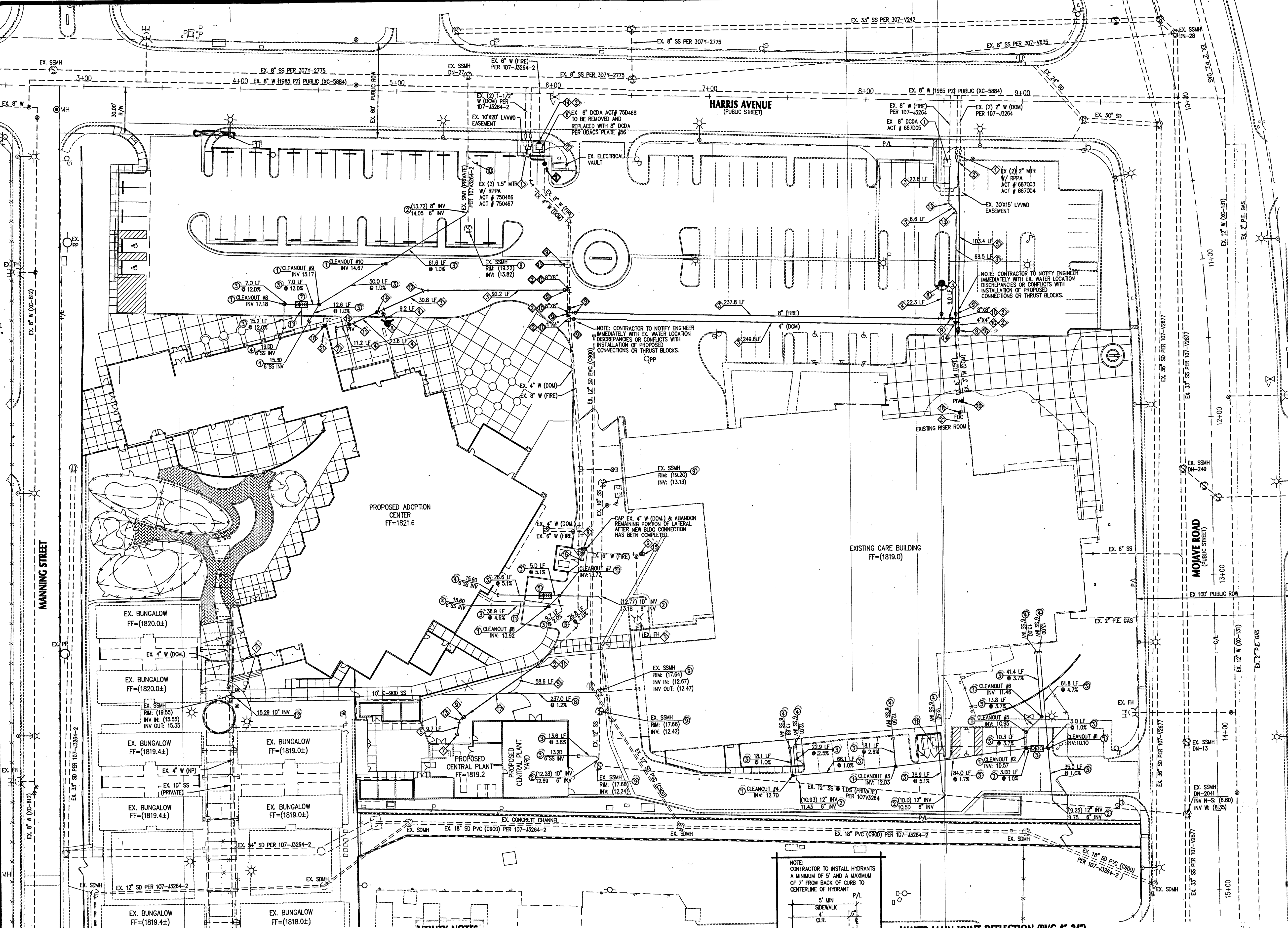


11/18/24 DWG PATH: N:\Animal Foundation\049-001 Animal Foundation\049-001 UT.dwg PLOT TIME: 04:06:17 PLOT DATE: 04-06-17



LEGEND

CENTER LINE	PVC W
RIGHT-OF-WAY	PVC SS
PROPOSED WATER	EX. WATER LINE
PROPOSED SEWER	EX. SEWER LINE
EXISTING WATER	EX. GAS
EXISTING SEWER	EX. EDGE PWT
EXISTING GAS	SS
PROPOSED SANITARY	WAT
EXISTING EDGE PWT	PVT
SANITARY SEWER	INV
WATER	ELEV
PRIVATE	MH
INVERT	MANHOLE
ELEVATION	BACKWATER VALVE
MANHOLE	PRV
BACKWATER VALVE	

FIRE FLOW CALCULATIONS

PROP. ADPTION	EX. CARE	CENTRAL PLANT
FIRE FLOW REQUIREMENT (GPM) AT 20 PSI RESIDUAL PRESSURE	2,375	1,500
BASED ON SQUARE FOOTAGE	31,932	1,880
LARGEST AREA BETWEEN 1-HOUR BUILDING SEPARATION WALLS (SF)	N/A	N/A
BUILDING HEIGHT (FEET)	<40'	<40'
NUMBER OF STORIES	2	1
TYPE OF CONSTRUCTION	V-B	V-B
OCCUPANCY	B	U
FULL AUTOMATIC FIRE SPRINKLER SYSTEM	YES	NO
SPRINKLER DEMAND	650 GPM MAX	650 GPM MAX

- WATER CONSTRUCTION NOTES**
- EXISTING UTILITY PROTECT IN PLACE
 - CONNECT TO EXISTING WATERMAIN
 - INSTALL 8" PVC WATERLINE (FIRE) (PRIVATE) (CLASS 150)
 - INSTALL 8" PVC WATERLINE (FIRE) (PRIVATE)
 - INSTALL 4" PVC WATERLINE (DOM) (PRIVATE)
 - REMOVE EXISTING 8" DCA PER UDAC PLATE #30
 - INSTALL 8" DCA PER UDAC PLATE #30
 - SEE PLUMBING PLANS FOR CONTINUATION
 - INSTALL FIRE HYDRANT ASSEMBLY W/ 8" 90° TEE & 6" GV PER UDAC PLATE #40 & #31
 - INSTALL GATE VALVE (MATCH SIZE) PER UDAC PLATES #30 AND #39
 - INSTALL TEE WITH THRUST BLOCK PER UDAC PLATE #31
 - INSTALL 11.25' BEND (MATCH SIZE)
 - INSTALL 22.5' BEND (MATCH SIZE)
 - INSTALL 45° BEND WITH THRUST BLOCK PER UDAC PLATE #31
 - INSTALL 8"x8" REDUCER PER UDAC PLATE #30
 - CAP AND 2" B/O PER UDAC PLATE #36 SEE DEMO PLAN
 - INSTALL 4"x3" REDUCER PER UDAC PLATE #30
 - INSTALL WATER ABOVE C-900 SEWER MAIN (LATERAL 6" MIN. SEPARATION PER UDAC 2.22.02.B. FILL VOID WITH SAND COMPACTED 95%
 - INSTALL WALL MOUNTED FIRE DEPARTMENT CONNECTION (FDC)
 - INSTALL POST INDICATOR VALVE (PIV)
 - CUT IN TO EXISTING FIRE MAIN AND INSTALL POST INDICATOR VALVE (PIV)
 - FUTURE PLACED IN FIRE RISER STATION AND ADDITIONAL WAYS OF INJECTION INTO THE FIRE SPRINKLER SYSTEM AT ANY TIME PER FIRE DESIGN PLANS.

- SEWER CONSTRUCTION NOTES**
- CONSTRUCT SANITARY SEWER LATERAL PER UDAC PLATE #30
 - CONNECT SEWER LATERAL & WYE TO EXISTING PRIVATE SS MAIN PER UDAC PLATE #22, #30, & #31
 - 8" C-900 SANITARY SEWER TRENCH & BACKFILL PER UDAC PLATE #17
 - SEE PLUMBING PLANS FOR CONTINUATION
 - HAIR TRAP SEE PLUMBING PLANS FOR DETAILS
 - PROTECT IN PLACE
 - GREASE TRAP SEE PLUMBING PLANS FOR DETAILS
 - 10" C-900 SANITARY SEWER TRENCH & BACKFILL PER UDAC PLATE #17
 - ADJUST TOP OF MANHOLE TO FINISHED GRADE
 - STUB & PLUG EXISTING SEWER LATERAL
 - 3" VENT LINE, REFER TO PLUMBING PLANS
 - CONNECT EX. SEWER LATERAL & WYE TO PRIVATE SS MAIN PER UDAC PLATE #30

- STREETLIGHT CONSTRUCTION NOTES**
- RELOCATE EXISTING LIGHT 1" FROM BOR PER COASD #300.S1 & 308 NOTE: SEE DEMO PLANS FOR ALL EXISTING UTILITY REMOVALS

APPROVALS

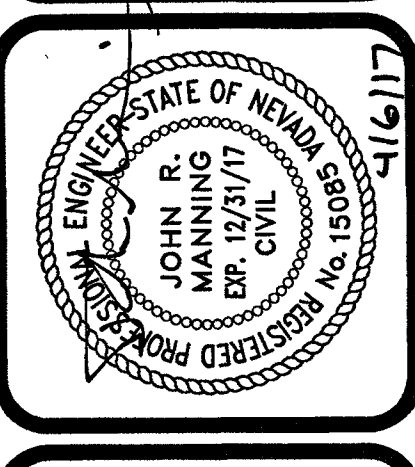
CITY OF LAS VEGAS FIRE DEPARTMENT

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 2,375 GPM AT 20 PSI RESIDUAL.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 125185 DATE: 4/12/17
LVWD APPROVED FIRE FLOW 2,375 GPM AT 20 PSI RESIDUAL
CLV DWG# 107V3264-3

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY, BLDG. 4 STE. #422
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: info@advantagecivil.com
PLANNING
CIVIL ENGINEERING



UTILITY PLAN
THE ANIMAL FOUNDATION
REGIONAL ANIMAL CAMPUS

NO.	DATE	DESCRIPTION
1	11/19/17	REVISE NEW ADPTION CENTER FIRE FLOW
2	04/20/17	

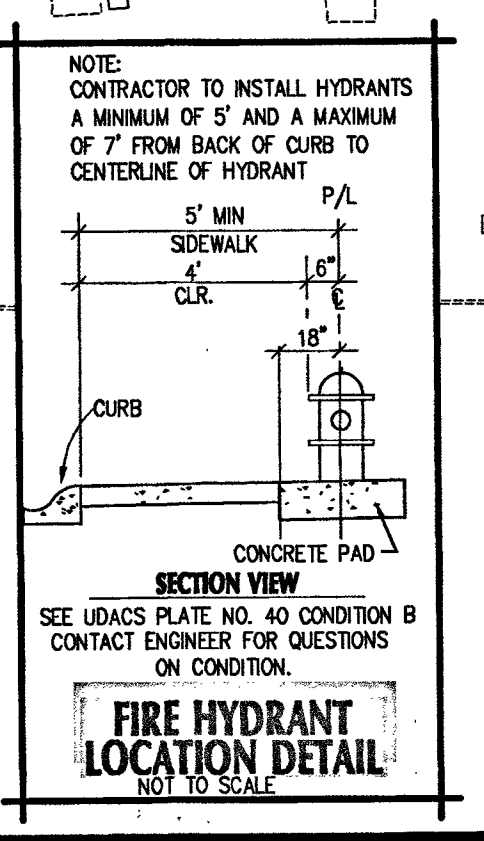
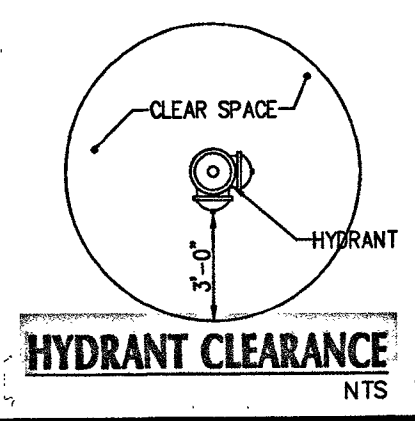
JOB NUMBER: 049-001
DRAWN BY: TH
DESIGNED BY: MK
CHECKED BY: JM
DATE: 04/20/17
UT1
107V3264-3

FAST
Call before you Dig
Underground
1-702-432-5300
1-800-227-2600

Call 811
Before you Dig
Underground
1-702-227-2929

NOTE:
ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.06 AND 19.08.
BENCHMARK #11V01 25S6
RIVET AND PLATE IN TOP OF CURB SW CORNER OF MOAVE AND HARRIS SECTION 25, TOWNSHIP 20 SOUTH, RANGE 61 EAST, NAD 83, CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.
563.4508 METERS - 1815.78 FEET
BASIS OF BEARINGS
SOUTH 88°41'44" EAST, BEING THE BEARING OF THE CENTERLINE OF HARRIS AVENUE AS SHOWN BY MAP THEREOF IN FILE 106, PAGE 7 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

- UTILITY NOTES:**
- ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.
 - ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
 - WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FOURTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDAC 2.17.01.D).
 - GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDAC 1.04 FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.D.1.E.
 - ALL SEWER AND STORM DRAIN 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 CROSSING AND CLEARANCES.
 - LOTS MAY HAVE 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. PRVs ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.



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 UDAC 2.07.01 AND 2.07.02.
FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.
ESTIMATED SEWER CONSTRUCTION:
17,000 GPD: 0.017 MGD
0.017 MGD + 3.3 (PEAK FACTOR) = 0.0561 MGD

REVIEWED FOR CODE COMPLIANCE
JUN - 7 2017 BE
CITY OF LAS VEGAS
BUILDING AND SAFETY
Civil Plumbing
coordination only