

SEWER CONSTRUCTION NOTES

#	ITEM	UNIT	QUANTITY	
			PUBLIC	PRIVATE
1	INSTALL 8" PVC (C900) SEWER PIPE	LF	590	-
2	CONSTRUCT 48" SEWER MANHOLE PER STD DWG # SD-1	EA	3	-
3	INSTALL 6" PVC (SDR-35) SEWER PIPE	LF	-	180
4	INSTALL 6" TWO-WAY CLEANOUT	EA	-	1

WATER CONSTRUCTION NOTES

#	ITEM	UNIT	QUANTITY	
			PUBLIC	PRIVATE
1	INSTALL 8" WATERLINE	LF	48	-
2	INSTALL 1" METER PER UDACS PLT. #4 W/ 1" RPPA PER UDACS PLT. #8	EA	1	-
3	INSTALL 1" BRASS WATER LATERAL	LF	5	1
4	INSTALL 1" COPPER K WATER LATERAL	LF	42	-
5	INSTALL 10" X 1" SERVICE SADDLE PER UDACS PLT. #4	EA	1	-
6	INSTALL 6" GATE VALVE PER UDACS PLT. #30 & #39	EA	-	1
7	INSTALL VEHICULAR PROTECTION BOLLARDS AS NEEDED PER UDACS PLT. #75	EA	-	3
8	NOT IN USE	-	-	-
9	INSTALL 6" PVC (CLASS 150) WATER LINE	LF	-	184
10	INSTALL 8"x8" TEE PER UDACS PLT. #31	EA	-	1
11	INSTALL 1" PVC WATER LATERAL	LF	-	194
12	INSTALL 10"x8" TAPPING SLEEVE W/8" TAPPING VALVE PER UDACS PLT. #34 & #39 & UDACS 2.24.01 A	EA	1	-
13	INSTALL 8" RPPA WITH APPROVED COVER PER UDACS PLT. #56	EA	1	-
14	INSTALL 22.5" BEND PER UDACS PLT. #31	EA	-	2
15	INSTALL FIRE HYDRANT ASSEMBLY W/GATE VALVE PER UDACS PLT. #40	EA	-	1
16	INSTALL 8"x8" REDUCER W/ THRUST BLOCK PER UDACS PLT. #30	EA	-	1

CONSTRUCTION NOTES

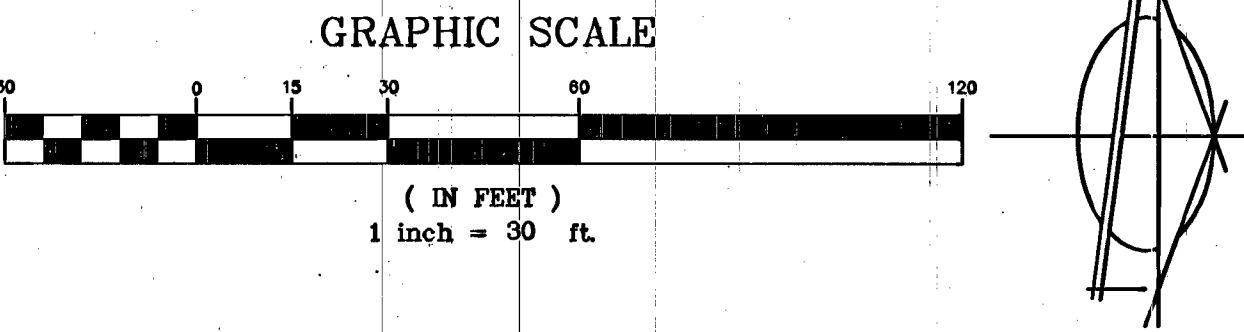
#	ITEM	UNIT	QUANTITY	
			PUBLIC	PRIVATE
1	SAWCUT NEAT AND MATCH EXISTING	LF	278	-
2	TRENCH AND BACKFILL AC RESTORATION PER CCAUSD #503, #500.4, & #500.5	SF	182	-

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.
 BASED ON:
 SQUARE FOOTAGE: 11,200 SQUARE FEET
 LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: N/A SQUARE FEET
 BUILDING HEIGHT: 35' MAX.
 NUMBER OF STORIES: 1 FLOORS
 TYPE OF CONSTRUCTION: V-B
 OCCUPANCY:
 FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES NO
 REVIEWED BY: [Signature] DATE: 11/17/14
 LAS VEGAS FIRE DEPT.

NOTE

ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040
 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 BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

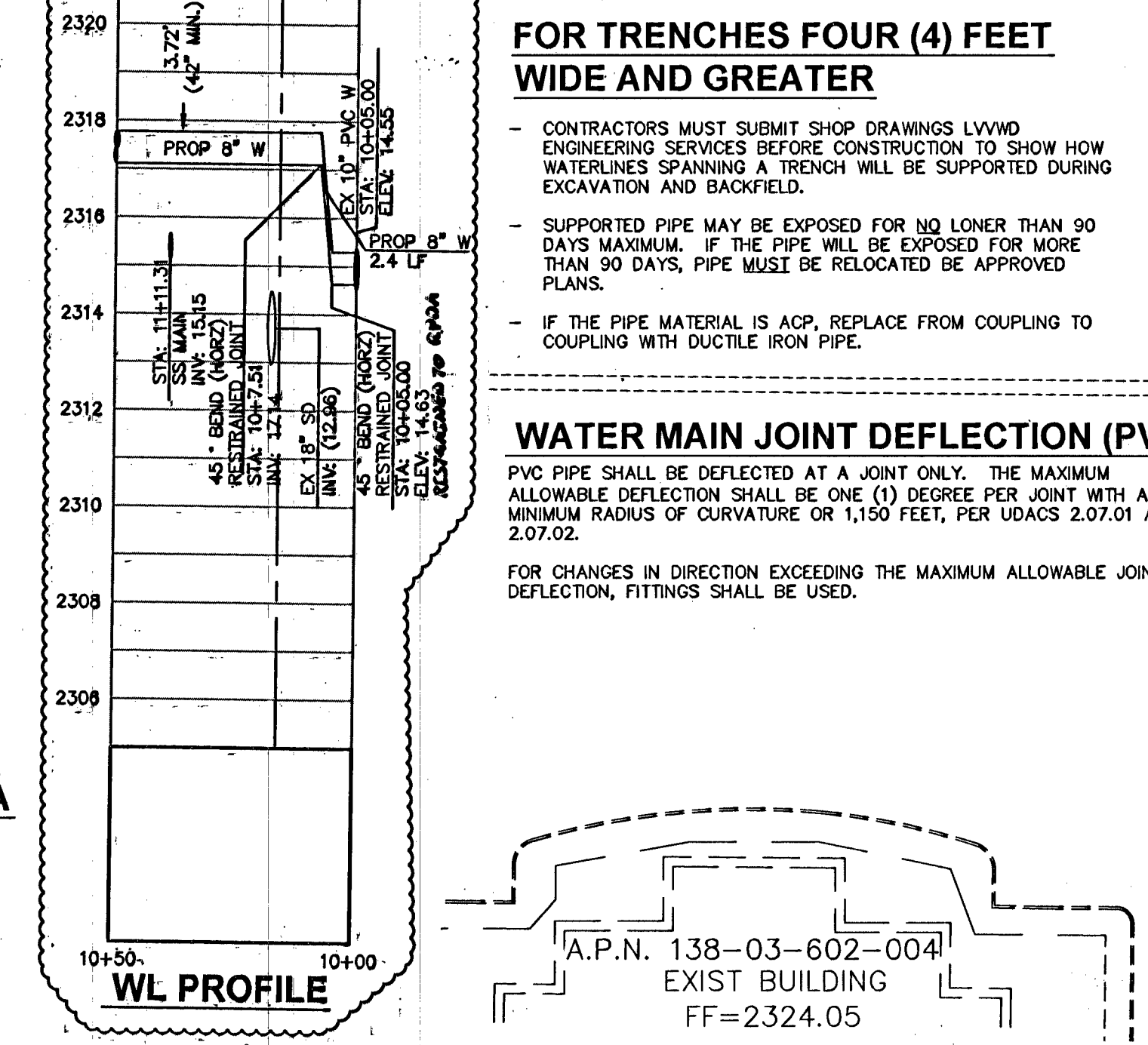
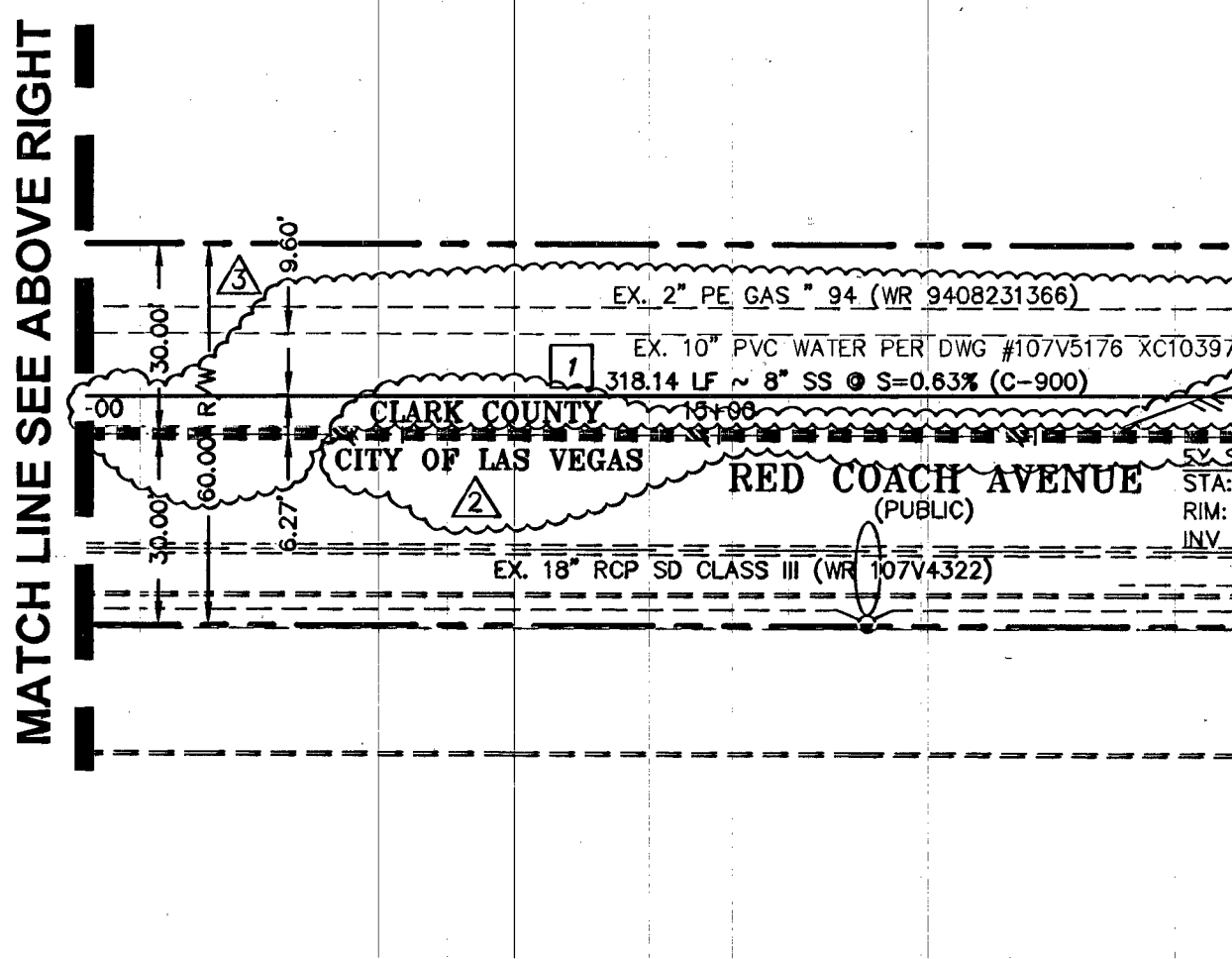
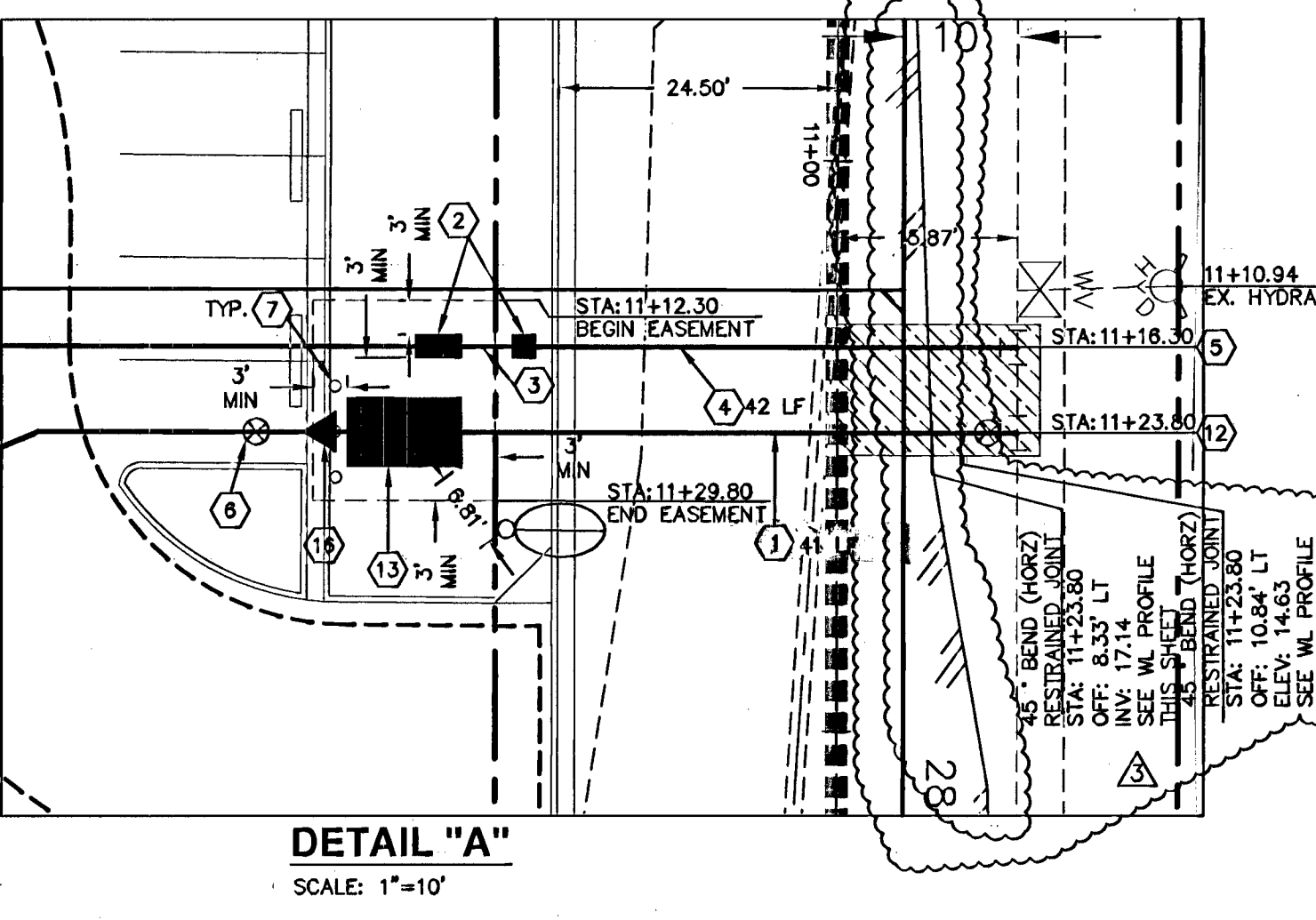


REDUCED PRESSURE PRINCIPLE ASSY (1)-1"
 APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.
 ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT ACCESS FROM THE RIGHT-OF-WAY.
 EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) (1) 8"
 THE REDUCED PRESSURE DETECTOR ASSEMBLY(S) SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 59 AND DETAIL THIS SHEET
 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.

CROSSING 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 CROSSING AND CLEARANCES.

WARNING FIRE LINE (NON-POTABLE WATER) ALL EXISTING, RELOCATED OR PROPOSED DCDA/RPDA INSTALLATIONS:
 TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, THE FIRE LINE, OR ANY OF ITS COMPONENTS, SHALL NOT BE USED FOR POTABLE DRINKING WATER AT ANY TIME.



WATER MAIN JOINT DEFLECTION (PVC 4"-24")
 PVC PIPE SHALL BE DEFLECTED AT A JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OR 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.
 FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED.

BASIS OF BEARINGS
 NORTH 00°31'57" EAST - THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 3, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.B.&M. AS SHOWN ON RECORD OF SURVEY IN FILE 90, PAGE 25, CLARK COUNTY RECORDS, NEVADA.

BENCH MARK
 CITY OF LAS VEGAS NO. 11WOODNEES RIVET AND PLATE IN TOP OF CURB, SW CORNER OF RAINBOW BLVD. AND RED COACH AVENUE.
 ELEVATION: 706.792 METERS = 2318.87 FEET, NAVD 88.

DISCLAIMER NOTE
 UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

LAB VEGAS VALLEY DISTRICT ENGINEERING SERVICES MANAGER DATE
 DATE: 12/02/14 PROJECT NO: 121961
 LVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
 LAS VEGAS FIRE & RESCUE

PROFESSIONAL ENGINEER - STATE OF NEVADA
 JOHN R. SHARPER
 No. 13140

CLV# 49481 HTE: 14-3333

REVISIONS

DATE	NO.	REVISIONS
10/28/13	1	REVISED SS LOC. AND LABELS
04/14/14	2	CLARK COUNTY REVIEW COMMENTS
09/29/14	3	REVISED UTILITIES TO REFLECT FIELD SURVEY CORRECTED SEWER CONFLICTS

PREPARED FOR: **WHEELER/LIVERI**

DATE: FEBRUARY 2012

DESIGN: BAUGHMAN & TURNER, INC.

DRAWN: CIVIL ENGINEERS

CHECK: LAND PLANNERS

SCALE: 1"=30'

PROJECT: KABOOM BATTING ACADEMY UTILITY PLAN

SECTION 3, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.B. & M. NEVADA

APN: 138-03-602-018

SHEET **UP1** OF 8

PROJ. NO. WHEELER/LIVERI