

CITY OF LAS VEGAS FIRE DEPARTMENT NOTES	
1.	ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6631, FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2.	ONLY FIRE HYDRANTS THAT ARE IN THE LAS VEGAS VALLEY WATER DISTRICTS-APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3.	A PERMIT IS REQUIRED FOR LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. 1FC:105.6.15
4.	ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. 1FC:105.7.1, 3.3.1.2
5.	TO IDENTIFY THE FIRE HYDRANT LOCATIONS, CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF STREET ADJACENT TO THE FIRE HYDRANTS. 1FC:105.7.5.7.3
6.	ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. 1FC:106.3
7.	ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. 1FC:105.7.2.1, NFPA 24
8.	PAINTING OF THE CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. 1FC:107
9.	PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED. 1FC:105.7.5.7.1
10.	PRIOR TO FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. 1FC:107
11.	FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: 1FC:102 RESIDENTIAL-500 FEET UNSPRINKLERED; 600 FEET SPRINKLERED. COMMERCIAL-300 FEET UNSPRINKLERED; 400 FEET SPRINKLERED.
12.	WHERE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM 1,000 FOOT SPACING TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNTRY AT MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FEET ON AN ALTERNATING BASIS. 1FC:102.8
13.	NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14.	NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 8 FEET OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. 1FC:102.10
15.	A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FEET, AS MEASURED BY AN APPROVED ROUTE. 1FC:102.4
16.	THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FEET, AS MEASURED BY AN APPROVED ROUTE. 1FC:102.7
17.	THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FEET. 1FC:102.6
18.	TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN TWO (2) FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. 1FC:104
19.	ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. 1FC:103.2.3
20.	THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FEET PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. 1FC:103.2.7; 103.2.8
21.	THE TURNING RADIUS OF THE FIRE APPARATUS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADIUS. 1FC:103.2.4
22.	VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL BE NOT LESS THAN 13 FEET 6 INCHES. 1FC:103.2.1
23.	FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33 FEET WITH PARKING ON BOTH SIDES MEASURED TO FACE OF CURB. NOT LESS THAN 28 FT WIDE WITH PARKING RESTRICTED TO ONE SIDE MEASURED TO FACE OF CURB. NOT LESS THAN 24 FT WIDE WITH NO PARKING ON EITHER SIDE MEASURED TO FACE OF CURB. FIRE LANES THROUGH PARKING LOT/SHALL BE NOT LESS THAN 24 FT. 103.2.1.1
24.	A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FEET FROM A FIRE DEPARTMENT VEHICLE ACCESS. 1FC:103.1.1
25.	APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROADS WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FEET, CLV REGULATION AND MOUT
26.	ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FEET. CLV REGULATION
27.	ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS 100 FEET ALONG ALL DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY. NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FEET OR LESS THAN 6 FEET FROM ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. 1FC:103.3
28.	ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. 1FC:103.6
29.	WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNTRY OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET AS THE PROPOSED DEVELOPMENT. CLV REGULATION

CITY OF LAS VEGAS TRAFFIC NOTES (LD)	
21.	OPTICAL PREEMPTION UNITS WILL BE GLOBAL TRAFFIC TECHNOLOGIES (ENCODING CAPABLE), MODEL 764 OPTICOM PHASE SELECTOR INSTALLED IN A MODEL 760 RACK WITH A MODEL 768 AUXILIARY INTERFACE PANEL (AIP) MOUNTED IN THE CABINET AND FULLY WITNESSED FOR GREEN SENSE CAPABILITIES. OPTICAL SENSORS WILL BE MODEL 721 WITH ONE DETECTOR PER DIRECTION, UNLESS SHOWN OTHERWISE IN THE PLANS, AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-113 CABLE. OPTICAL SENSORS WILL BE CARRIED TO THE DETECTOR BY WIRE TO INTERPRETS ON CHANNEL 1, IN THE PHASE SELECTOR, EASTBOUND ON CHANNEL 2, NORTHBOUND ON CHANNEL 3, AND WESTBOUND ON CHANNEL 4, UNLESS VARIATIONS ARE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. WHEN 764 PHASE SELECTORS ARE ADDED TO A CABINET WITHOUT A 768 AIP, THE CONTRACTOR SHALL INSTALL AND WIRE A NEW 768 AIP.
22.	IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
23.	INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.
24.	THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.
25.	WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CALL 702-222-6331 TO SPEAK TO A TRAFFIC FIELD SUPERVISOR TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.
26.	THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGHOUT THE LIFE OF THE PROJECT PER SECTION 623.6.03.01N OF THE CLV SPECIAL PROVISIONS.
REVISED SEPTEMBER 19, 2018	

CITY OF LAS VEGAS TRAFFIC NOTES (LD)(con't)	
1.	ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.
2.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION. CALL-BEFORE-YOU-DIG 1-702-432-5300 CALL-BEFORE-YOU-DIG 1-800-227-2600 STREETLIGHTS 1-702-229-6331 F.A.S.T. 1-702-432-5300
3.	ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED, AND ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS. BRACKET MOUNTED (SIDE-MOUNTED) VEHICLE SIGNAL ASSEMBLIES WITH 2 OR MORE SIGNAL HEADS SHALL HAVE AN ADDITIONAL ELBOW AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 AND SHOWN AS OPTION B IN UNIFORM STANDARD DRAWING NUMBER 844, AND SHALL HAVE A MENEALLA SUPPORT AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 865 IF ONE OF THE SIGNAL HEADS CONTAINS 4 OR MORE SIGNAL MODULES.
4.	SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 CAP. ALL NEW ILLUMINATED STREET NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623.2.02.16 OF THE SPECIAL PROVISIONS.
8.	CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
9.	ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 705, NO. 706, AND NO. 707.
10.	TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
11.	PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLARA NAVIGATOR" TYPE (2-WIRE PEDESTRIAN PUSHBUTTON SYSTEM WITH N2 PUSH BUTTON STATIONS AND SHELF-MOUNT BU CONTROL UNIT WITH SOLC CABLE) OR CAMPBELL COMPANY WAPPS WIRELESS PEDESTRIAN PUSHBUTTON SYSTEM WITH APC IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-36 PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS, AS MODIFIED BY THE MANUFACTURER TO FIT ON A 9112 SIGN, AND SHALL BE PORCELAIN-ENAMELED METAL. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 10". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. NO. 235 (1-4) LATEST EDITION. WHEN AN EXISTING SIGNAL WITH EXISTING AUDIBLE-TACTILE PUSH BUTTONS IS MODIFIED, THE CONTRACTOR SHALL VERIFY NEW PEDESTRIAN PUSH BUTTONS OR CABINET EQUIPMENT MATCHES THE MANUFACTURE AND MODEL OF ANY EXISTING EQUIPMENT SCHEDULED TO REMAIN, TO PROVIDE A FULLY FUNCTIONING SYSTEM. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABINET EQUIPMENT, INCLUDING THE PEDESTRIAN PUSH BUTTON CONTROL UNIT, INTERFACE PANEL AND ANY REQUIRED HARNESSSES, TO PROVIDE A FULLY FUNCTIONING SYSTEM.
12.	THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
13.	MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD, WHERE YELLOW YELLOW ARROW LEFT TURN SIGNALS ARE USED, A MAST ARM R10-12" LEFT TURN YIELD ON FLASHING YELLOW ARROW SIGN SHALL BE MOUNTED ADJACENT TO THE M-4 SIGNAL HEAD.
14.	TRAFFIC SIGNAL CABINET SHALL BE A TYPE VII CABINET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THIS IS COMMONLY REFERRED TO AS AN "X" CABINET. THE CABINET SHALL CONFORM TO THE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS AND THE CITY OF LAS VEGAS SPECIAL PROVISIONS. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS. THE TRAFFIC SIGNAL CONTROLLER CABINET, SHALL BE EQUIPPED WITH 16 LOAD BAY POSITIONS. SHALL BE AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 844, AND SHALL BE RACK-MOUNTED, 12 SLOT, LOOP DETECTION RACKS, WITH 2 DETECTOR LOOP CHANNELS PER SLOT FULLY WIRED SO THAT ALL CHANNELS ARE USABLE AND 4 CHANNEL SLOTS THAT CAN ACCOMMODATE ALL DETECTION CARDS. THE CABINET SHALL CONTAIN A 764 OPTICOM PHASE SELECTOR IN A 760 RACK, WITH A 768 AUXILIARY INTERFACE PANEL MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES.
15.	THE CONTRACTOR SHALL SUPPLY A MALFUNCTION MANAGEMENT UNIT (MMU) AND TRAFFIC SIGNAL CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP A MINIMUM OF FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON OR PRIOR TO CONVERTING TO A NEW PHASING SCHEME, FOR TESTING AND PROGRAMMING AND DELIVERY TO THE CONTROLLER. THE CONTROLLER SHALL BE A NATEC 980 AT52 TYPE 2 NTOP COMPLIANT SIGNAL CONTROLLER WITH THE NATEC 980 AT52 SOFTWARE, LATEST VERSION, AND THE MMU SHALL BE A MODEL MMU-1600G AS MANUFACTURED BY RENO A&E, OR APPROVED EQUAL. THE CONTRACTOR SHALL DELIVER THE CONTROLLER AND MMU TO AND PICKUP THE CONTROLLER AT 2985 COLUMBUS DRIVE, CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL REPAIR SHOP (229-6076) SEVEN DAYS PRIOR TO PICKUP. THE CITY, AT ITS DISCRETION, MAY PROVIDE A DIFFERENT MODEL OF MMU OR CONTROLLER FOR INITIAL TURN-ON, IN WHICH CASE CITY PERSONNEL WILL SWAP THE CONTROLLER OR MMU AFTER THE PROJECT IS ACCEPTED.
16.	CONTRACTOR SHALL POTHOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.
17.	ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER. THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC SIGNAL SUPERVISOR. THE CONTRACTOR SHALL NOTIFY THE FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 808 SHEET 2. ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES," AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 OF THE SPECIAL PROVISIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.
18.	ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS. IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS AND TO SECTION 623 OF THE CCA USS, ALL PEDESTRIAN SIGNAL FACES SHALL PROVIDE "WALKING PERSON," HAND, AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURALIGHT MODEL #JXM-400-VIEL OR DIALIGHT MODEL #430-6479-001, OR APPROVED EQUAL. THE "COUNTDOWN" MESSAGE SHALL NOT LASH, WHERE EXISTING SIGNALS ARE MODIFIED, THE CONTRACTOR SHALL VERIFY THAT LED PEDESTRIAN INDICATIONS FOR A SPECIFIC PHASE ARE OF THE SAME MANUFACTURE SO THAT THEY FUNCTION CORRECTLY, OR SHALL REPLACE ALL COUNTDOWN PEDESTRIAN INDICATIONS FOR THAT PHASE.
19.	VIDEO DETECTION SYSTEMS SHALL BE TS2 COMPATIBLE AND SHALL INPUT DETECTOR CALLS TO THE CONTROLLER THROUGH AN SOLC CABLE. SYSTEMS WILL BE EITHER ITERIS EDGE 2-IN PROCESSORS WITH VRACKS-PS, EDGE2-TS2-IM-PAK AND EDGECONNECT PAK, (IP ADDRESSABLE); PEEK VIDEO TRAK 10 (WITH ETHERNET PORT AND SOLC) OR TRAFICON VFP WITH VIDEO (IP ADDRESSABLE) AND PIM (SOLC). WHEN VIDEO DETECTION IS SPECIFIED ON THE TRAFFIC SIGNAL PLANS, ALL VIDEO DETECTION SYSTEMS WILL BE STAND ALONE SYSTEMS TO INCLUDE ALL NECESSARY EQUIPMENT TO PROGRAM THE VIDEO DETECTION SYSTEM, A PROGRAMMING "MOUSE," KEYPAD OR LAPTOP COMPUTER, AND A VIDEO DETECTION SYSTEM. THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE SOFTWARE WILL BE SUPPLIED WITH EACH VIDEO SYSTEM. PERSONAL COMPUTERS (PCS) MAY NOT BE SUBSTITUTED FOR LAPTOPS. A VIDEO MONITOR (COLOR FLAT SCREEN) 9" TO 13" WILL BE SUPPLIED WITH EACH VIDEO DETECTION SYSTEM. EACH VIDEO CAMERA WILL HAVE POWER AND VIDEO CABLE DIRECTLY FROM THE CABINET. COAXIAL CABLE WILL BE TYPE 828 (GOLD COUNTRY CONDUCTOR). CAMERAS THAT USE A PREFABRICATED CABLE INTEGRATING POWER AND COAXIAL CABLE INTO A SINGLE WEATHERPROOF CONNECTOR ARE ACCEPTABLE. "BNC" ARE THE ONLY ACCEPTABLE TERMINATION OF COAXIAL CABLES. CAMERAS WILL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. VIDEO CAMERAS SHALL BE COLOR AND SHALL BE MOUNTED ON A MINIMUM 6 FOOT RISER ON THE SIGNAL MAST ARM WITH EXTENSION BRACKETS (TYPE AG-0175-74-62 OR EQUIVALENT). THE LOCATION OF THE CAMERA ON THE MAST ARM SHALL BE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. A VIDEO FILTER (CX06-BNYC OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT. VIDEO DETECTION PROCESSORS AND COMMUNICATIONS CARDS SHALL BE PROVIDED WITH THE LATEST VERSIONS OF THE MANUFACTURER'S SOFTWARE. THE CONTRACTOR SHALL AIM CAMERAS AND PROGRAM AND CONFIGURE THE VIDEO DETECTION PROCESSORS TO PROVIDE A FULLY FUNCTIONING SYSTEM.
20.	WHERE NEW LOOPS WILL BE OVERLAIN WITH NEW PAVEMENT, LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E OR NEVER-FAIL LOOP SYSTEMS, AND ALL PREFORMED LOOPS SHALL BE INSTALLED BEFORE THE PLACEMENT OF THE FINAL PAVEMENT LIFT. WHERE NEW LOOPS ARE INSTALLED THAT ARE NOT OVERLAIN WITH NEW PAVEMENT, THE LOOPS SHALL BE CABLE-IN-DUCT PER SECTION 623.10.2.04.C OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. LOOP LEAD-IN CABLE SHALL BE 6-PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623.10.2.04 OF THE CLV SPECIAL PROVISIONS. ALL WIRING HARNESSSES SHALL BE INSTALLED. LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623.10.2.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

CITY OF LAS VEGAS SEWER NOTES	
1.	ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS.
2.	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3.	CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4.	POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5.	ALL MANHOLES PAVED IN STREETS EIGHTY (80) FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80) FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.

CITY OF LAS VEGAS SEWER NOTES(con't)	
6.	TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" "S" SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7.	WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8.	ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9.	THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10.	INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

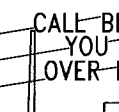
CITY OF LAS VEGAS TRAFFIC NOTES	
1.	ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2.	THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3.	BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SADS UNTIL PERMANENT SIGNS ARE INSTALLED.
4.	WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCRDACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5.	IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS AS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE X RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CAUSS 627 AND 715 AND HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM TO CURRENT CITY STANDARD SPECIFICATIONS. ALL EXISTING SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7.	WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5) FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8.	ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9.	STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10.	THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO MAINTAIN THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATISSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11.	WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC). IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13.	GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL FEES FOR THE USE OF THESE OFFICERS SHALL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14.	ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15.	THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECTS OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FROM THE TRAFFIC ENGINEERING DIVISION DETECTING TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.
REVISED JUNE 4, 2018	

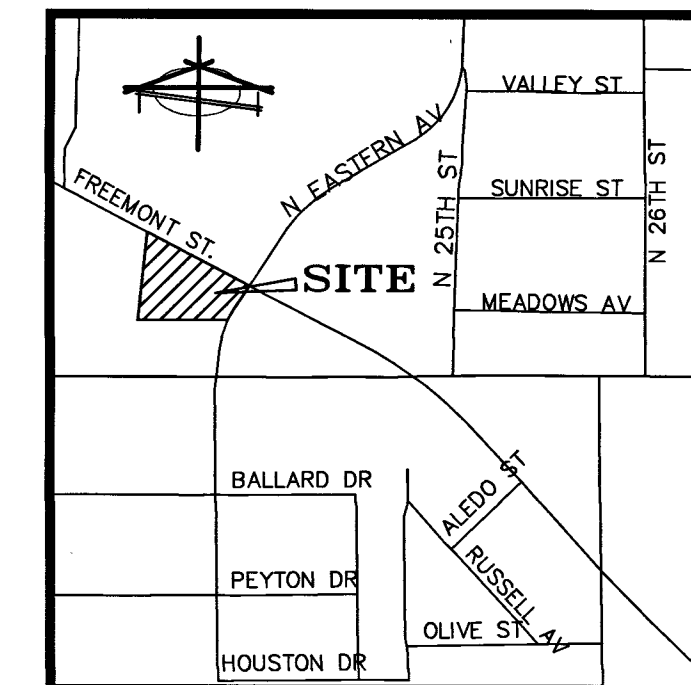
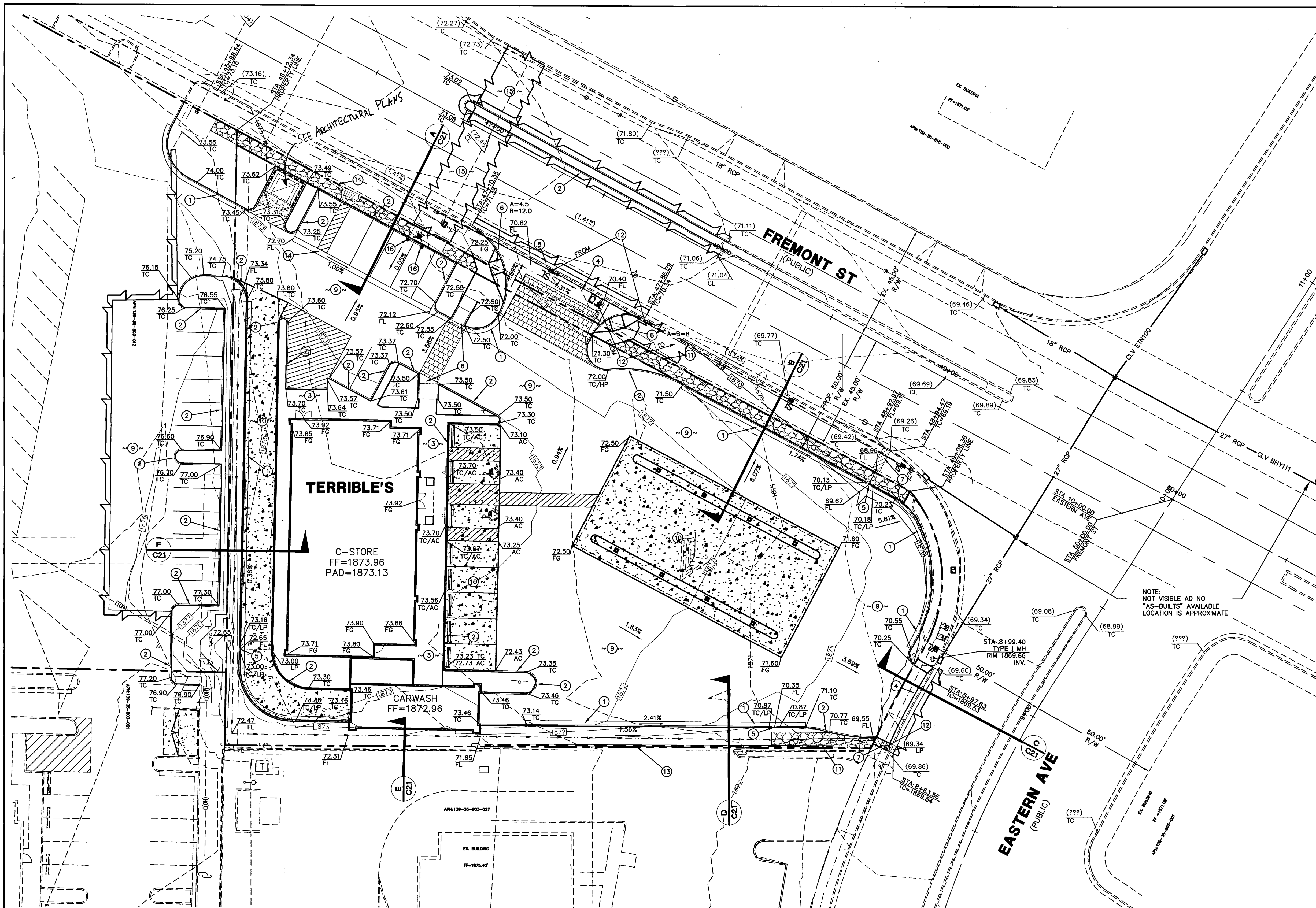
CITY OF LAS VEGAS GRADING NOTES	
1.	IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2.	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3.	CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4.	THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5.	THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6.	CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED: HORIZONTAL VERTICAL COMPACTION A. PAVEMENT AREA SUBGRADED: +1.0' TO -0.1' SEE SOILS REPORT B. ENGINEERED FILL: +0.1' TO -0.1' SEE SOILS REPORT COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7.	ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8.	THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9.	THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10.	IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.
REVISED 04/15/10	

CITY OF LAS VEGAS STREETLIGHT NOTES	
1.	ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2.	DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3.	NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
4.	ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623.6.03.01 OF THE USS.
5.	ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623.6.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
6.	ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
7.	AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
8.	SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.
9.	WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10.	THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.
REVISED JUNE 4, 2018 (LD VERSION)	

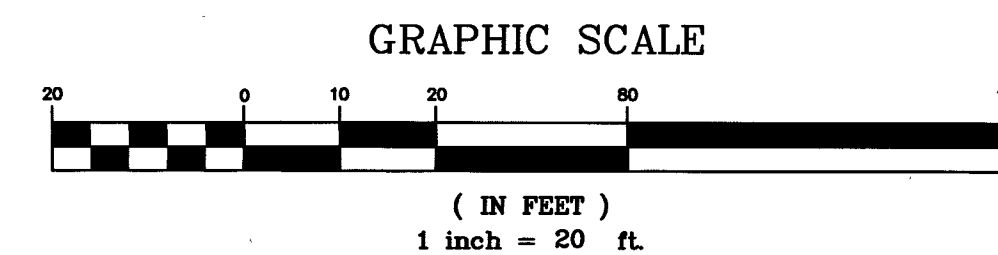
LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES	
PROJECT NO. 136356 (REVISED 08/01/2017)	
1.	NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATIONS SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO PROJECT # IDENTIFIED ABOVE.
2.	ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3.	ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT 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 TYPE K 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.	ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9.	ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10.	THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11.	ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12.	ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED PRODUCTS LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13.	TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14.	THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.
ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.	
15. NO LEAD COMPLIANCE NOTE.	
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.	

DEVIATION FROM STANDARDS	
NONE	

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 ON THIS PLAN. UTILITIES NOT SHOWN IN THEIR PROPER	Call before you Dig Avoid cutting underground utility lines. It's costly. Call 811 OR 1-800-227-2600 AVOID HITTING POWER LINES CALL BEFORE YOU OVER-CUT 



VICINITY MAP
NO SCALE



LEGEND

---	PROPERTY LINE
---	STREET CENTERLINE
---	LOT LINE
---	BUILDING SETBACK LINE
---	PROPOSED ROLL CURB
---	EXISTING "L" CURB & GUTTER
---	EXISTING CONTOUR LINES
---	PROPOSED FLOW LINE
---	PROPOSED GRADE BREAK
---	SAW CUT LINE
---	PROPOSED EDGE OF PAVEMENT
---	EXIST. EDGE OF PAVEMENT
---	PROPOSED BLOCK WALL
---	PROPOSED SCARP
---	EXIST. BLOCK WALL
---	PROPOSED ELEVATION & LOCATION
---	EXISTING ELEVATION & LOCATION
---	PROPOSED GRADE
---	CONSTRUCTION NOTE
---	PROPOSED HYDRANT
---	SIGHT VISIBILITY ZONE*
---	CONCRETE
CL	CENTERLINE
TC	TOP OF CURB
EP	EDGE OF PAVEMENT
FG	FINISHED GRADE
TF	TOP OF FOOTING
TRW	TOP OF RETAINING WALL
TFW	TOP OF FLOOD WALL
TPW	TOP OF PARSON'S WALL
BSW	BACK OF SIDEWALK
GB	GRADE BREAK
BVC	BEGIN VERTICAL CURVE
EVC	END VERTICAL CURVE
FF	FINISHED FLOOR
HP	HIGHPOINT
AC	ASPHALTIC CONCRETE
SWG	SOUTHWEST GAS
P.U.E.	PUBLIC UTILITY EASEMENT
P.D.E.	PRIVATE DRAINAGE EASEMENT
P.S.E.	PRIVATE SEWER EASEMENT
P.L.E.	PRIVATE LANDSCAPE EASEMENT

*NOTE: NOTHING OVER 24" IN HEIGHT ALLOWED IN
SIGHT VISIBILITY ZONE EXCEPT TRAFFIC CONTROL
DEVICES.

NOTE:

PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES
SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND
DEBRIS AND CARE OF THE VEGETATION.

PROVIDER NOTE:

NO WORK WITHIN INDOT R.O.W. WITHOUT AN INDOT PERMIT.

ONSITE STORM DRAIN NOTE

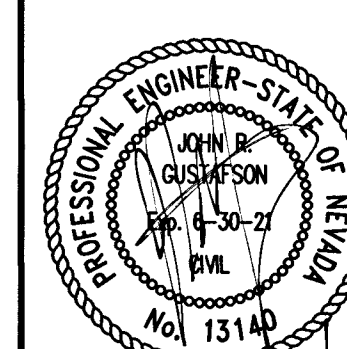
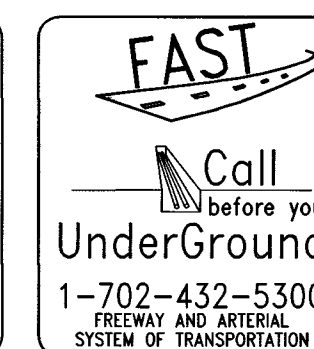
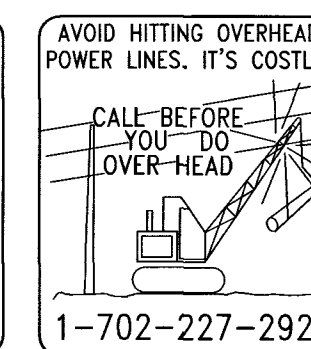
ALL ONSITE STORM DRAINS AND ASSOCIATED FACILITIES
ARE PRIVATELY OWNED AND TO BE PRIVATELY
MAINTAINED BY PROPERTY OWNER.

FLOOD ZONE DATA

BY GRAPHIC PLOTTING ONLY, THE PROPERTY IS ZONE X
OF THE FLOOD INSURANCE RATE MAP, COMMUNITY
PANEL NO. 32003C2186F, WHICH BEARS AN EFFECTIVE
DATE OF NOVEMBER 16, 2011, AND IS NOT IN A SPECIAL
FLOOD HAZARD.

DISCLAIMER NOTE

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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.



ENGINEERS CERTIFICATE

I CERTIFY THAT THIS GRADING PLAN IS IN ACCORDANCE
WITH THE APPROVED DRAINAGE STUDY ON FILE AT
CITY OF LAS VEGAS FOR THIS PROJECT: DS-5075A

JOHN R. GUSTAFSON, P.E. 7/30/19 DATE

CONSTRUCTION NOTES

#	ITEM	UNIT	PUBLIC	PRIVATE
1	INSTALL 24" "L" TYPE C & G PER CCAUSD DWG. #216	LF	184	731
2	INSTALL "A" TYPE CURB PER CCAUSD DWG. #219	LF	364	1,128
3	INSTALL SIDEWALK PER CCAUSD DWG. #234	SF	69	3,424
4	INSTALL COMMERCIAL DRIVEWAY PER CCAUSD DWG. #222A	SF	318	933
5	INSTALL 2" CURB OPENING PER DETAIL "1" ON DT1	EA	3	-
6	INSTALL HANDICAP RAMP PER CCAUSD DWG. #235 CASE I USING ARMOR TILE TRUNCATED DOMES OR EQUIVALENT	EA	2	2
7	INSTALL SIDEWALK UNDERDRAIN PER CCAUSD #236	EA	2	-
8	INSTALL 6" CROSS GUTTER PER CCAUSD DWG. #228	LF	43	-
9	INSTALL 3" MIN. AC OVER 4" TYPE II A.B.	SY	547	3,773
10	INSTALL 6" CONCRETE OVER 4.5" TYPE II A.B.	SY	-	8664
11	INSTALL RIP-RAP, D50=6" DEPTH=12"	SF	137	-
12	EXISTING UTILITY TO BE RELOCATED	EA	3	-
13	INSTALL 4" HIGH BLOCK WALL INSIDE R/W	LF	-	135
14	INSTALL 24" VALLEY GUTTER PER DETAIL SHEET C2.1	SF	76	-
15	INSTALL 4" A.C. OVER 4" TYPE II A.B.	SY	663	-
16	INSTALL BOLLARD	SY	-	2

STORMWATER MANAGEMENT NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH
DAY REMOVE ALL SEDIMENT, MED, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS
THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF
CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE
DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM
ENTERING THE STORM SEWER SYSTEM.

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE
REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS.
IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK
COUNTY BUILDING ADMINISTRATIVE CODE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION 5.11
BMP GUIDANCE MANUAL.

3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED
AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION
ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME
EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR
CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5

4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS,
AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION,
VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER
ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR
MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTION TO
WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES.
REFER TO NEVADA GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.

5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A
STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS
EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50
PERCENT OR MORE.

BASIS OF BEARING

SOUTH 02°12'10" EAST - BEING THE CENTERLINE OF
TORREY PINES DRIVE AS SHOWN IN FILE 31 OF PARCEL
MAPS, PAGE 99, CLARK COUNTY RECORDER'S OFFICE,
CLARK COUNTY, NEVADA.

BENCHMARK

CLARK COUNTY BENCHMARK 6C01 35SE6 -
BEING A RIVET AND SQUARE ALUMINUM PLATE IN
TOP OF CURB, NORTHWEST CORNER OF FREMONT
STREET AND 21ST STREET, NEAR PC OF
FREMONT STREET.

572.582 METERS 1878.55
FEET
NAVD 88 DATUM

LEGAL DESCRIPTION

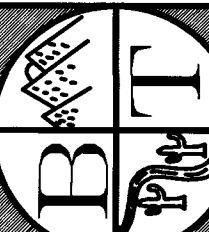
BEING THE SOUTHEAST QUARTER (SE1/4) OF THE
SOUTHEAST QUARTER (SE1/4) OF THE NORTHEAST
QUARTER (NE1/4) OF THE NORTHWEST QUARTER (NW1/4)
OF SECTION 35, TOWNSHIP 21 SOUTH, RANGE 60 EAST,
M.D.M., CLARK COUNTY, NEVADA.

DATE	REV	CREATED NO.	DATE	REV	APPROVED

SIENA HOLDING
1210 HINSON STREET
LAS VEGAS, NEVADA 89104
PHONE: (702) 596-5611

PREPARED FOR:
2/18/2019
DATE
DESIGN
JRG
DRAWN
JRG
CHECK
JRG
SCALE

BAUGHMAN & TURNER, INC.
CIVIL ENGINEERS
1210 HINSON STREET
LAS VEGAS, NEVADA 89102
PHONE: (702) 870-8771 FAX: (702) 878-2685

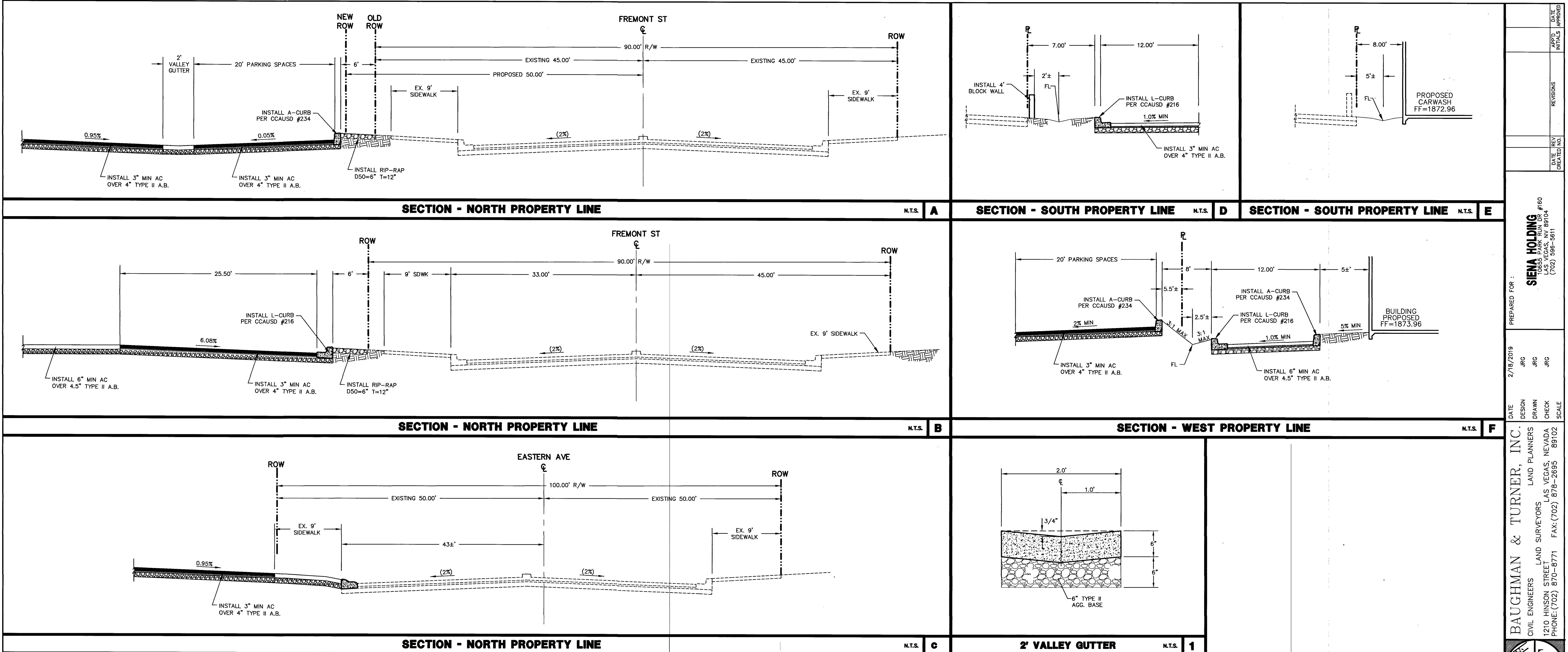


SIENA FREMONT & EASTERN
GRADING PLAN
SECTION 35, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.B. & M.
CITY OF LAS VEGAS
NEVADA
APN 139-35-817-006

SHEET

C2.0

3 OF 8
PROJ. NO.
S269



DATE	2/18/2019	DESIGN	JRG	DRAWN	JRG	CHECK	JRG	SCALE	
DATE	2/18/2019	DESIGN	JRG	DRAWN	JRG	CHECK	JRG	SCALE	
DATE	2/18/2019	DESIGN	JRG	DRAWN	JRG	CHECK	JRG	SCALE	
DATE	2/18/2019	DESIGN	JRG	DRAWN	JRG	CHECK	JRG	SCALE	
DATE	2/18/2019	DESIGN	JRG	DRAWN	JRG	CHECK	JRG	SCALE	
DATE	2/18/2019	DESIGN	JRG	DRAWN	JRG	CHECK	JRG	SCALE	
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DATE	2/18/2019	DESIGN	JRG	DRAWN	JRG	CHECK	JRG	SCALE	
DATE	2/18/2019	DESIGN	JRG	DRAWN	JRG	CHECK	JRG	SCALE	
DATE	2/18/2019	DESIGN	JRG	DRAWN	JRG	CHECK	JRG	SCALE	

SIENA HOLDING
 LAS VEGAS, NV 89104
 (702) 396-5811

BAUGHMAN & TURNER, INC.
 CIVIL ENGINEERS
 LAND PLANNERS
 LAND SURVEYORS
 1210 HINSON STREET
 LAS VEGAS, NEVADA 89102
 PHONE: (702) 870-8771 FAX: (702) 878-2695

SIENA FREMONT & EASTERN
 GRADING DETAILS
 SECTION 35, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.B. & M.
 CITY OF LAS VEGAS
 APN 139-35-817-006

CLV PROJECT # L19-00592

DISCLAIMER NOTE
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Call before you Dig
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Call 811
 OR
 1-800-227-2600

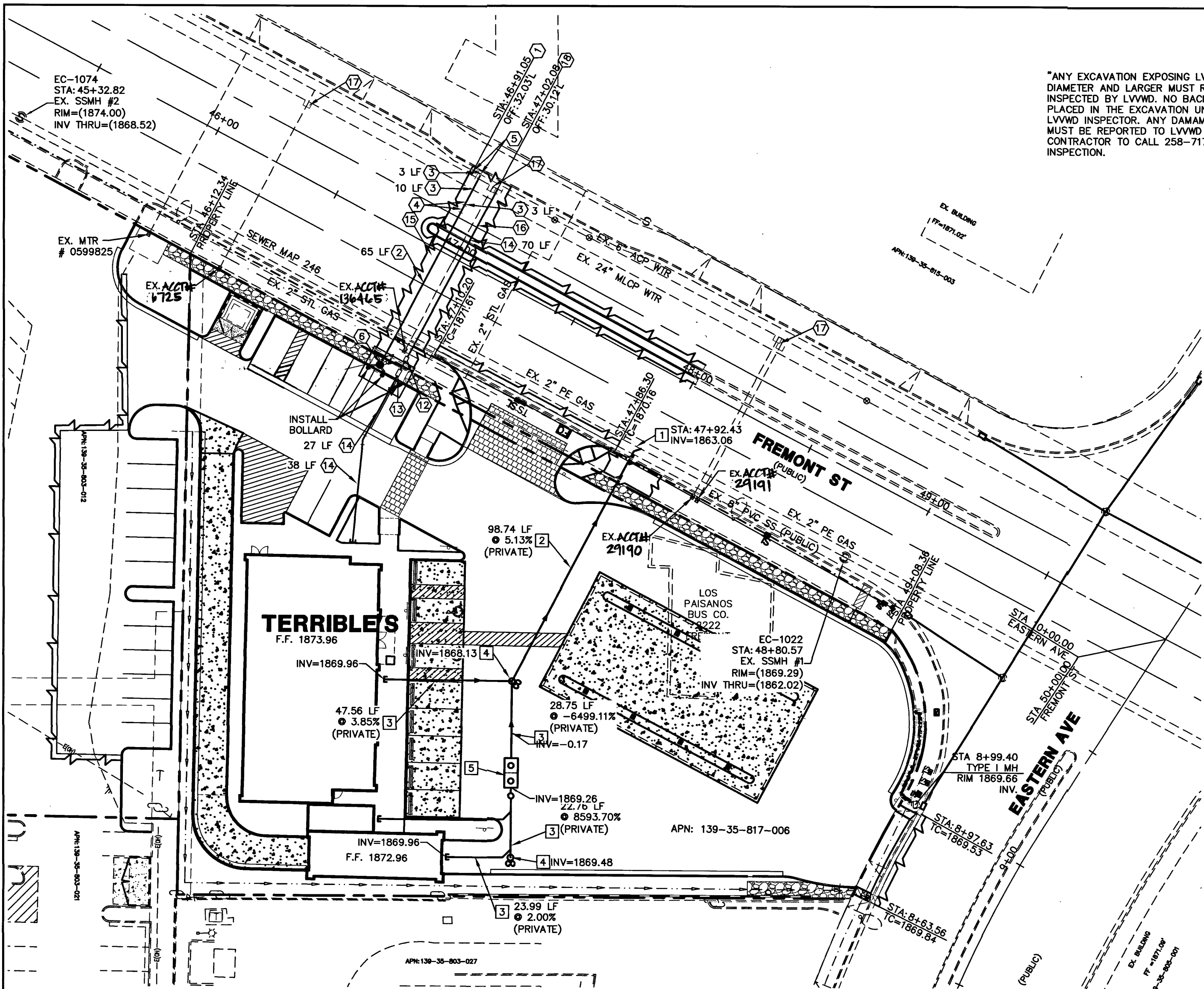
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL-BEFORE-YOU-DO-OVER-HEAD
 1-702-227-2929

FAST
Call before you UnderGround
 1-702-432-5300
 FREEMAN AND MATERIAL SYSTEM OF TRANSPORTATION

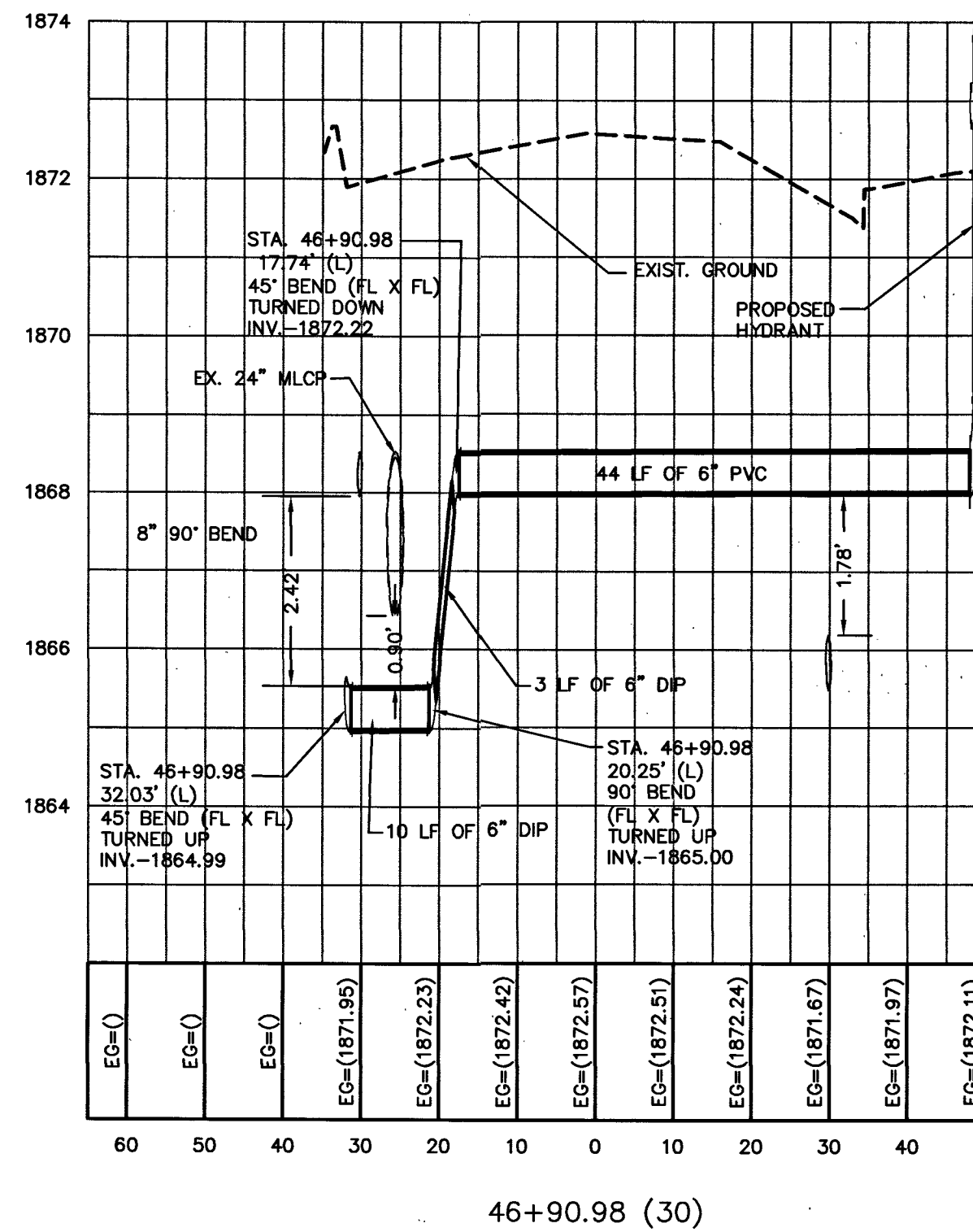
PROFESSIONAL ENGINEER-STATE OF NEVADA
 No. 13140
 7/30/19

C2.1
 4 OF 8
 PROJ. NO. S269

107V1767



"ANY EXCAVATION EXPOSING LVWD FACILITIES 24" IN DIAMETER AND LARGER MUST REMAIN OPEN UNTIL INSPECTED BY LVWD. NO BACKFILL MATERIAL IS TO BE PLACED IN THE EXCAVATION UNTIL APPROVED BY THE LVWD INSPECTOR. ANY DAMAGE TO THE FACILITIES MUST BE REPORTED TO LVWD IMMEDIATELY. CONTRACTOR TO CALL 258-7171 TO SCHEDULE LVWD INSPECTION."



CROSSING #1
STA 46+90.98

BASIS OF BEARING:

SOUTH 89°51'04" EAST - BEING THE BEARING OF CHARLESTON BOULEVARD AS SHOWN IN FILE 203 OF SURVEYS, PAGE 47, CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CLARK COUNTY BENCHMARK 6001 35SE6 - BEING A RIVET AND SQUARE ALUMINUM PLATE IN TOP OF CURB, NORTHWEST CORNER OF FREMONT STREET AND 21ST STREET, NEAR PC OF FREMONT STREET.

572.582 METERS 1878.55
FEET
NAVD 88 DATUM

LEGAL DESCRIPTION

LOT 1 OF CHARLESTON EASTERN, A COMMERCIAL SUBDIVISION, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 153, OF PLATS, PAGE 67, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.

ABANDONMENT OF EXISTING SERVICES (2-INCH AND SMALLER)

IF ANY OF THE EXISTING SERVICES ARE INCORRECTLY LOCATED OR NOT TO BE USED WITH THIS PROJECT, THIS PROJECT SHALL ABANDON THE LATERALS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH (UDACS SECTION 2.17.04) AND THE COORDINATE WITH THE LVWD INSPECTOR.

OWNER
SIENA XVII HOLDING LIMITED PARTNERSHIP
10655 PARK RUN DR #160
LAS VEGAS, NV 89104

DEVELOPER
SIENA HOLDING
10655 PARK RUN DR #160
LAS VEGAS, NV 89104
(702) 596-5611
mitch@ogronprop.com

REDUCED PRESSURE PRINCIPLE ASSEMBLY (RPPA) (1) 1-1/2"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY (S) SHALL BE INSTALLED PER 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 CITY OF HENDERSON. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE CITY OF HENDERSON DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

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

TREES, SHRUBS, 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.

WATER CONSTRUCTION NOTES

#	ITEM	UNIT	PUBLIC	PRIVATE	QUANTITY
1	INSTALL 6"X6"X6" CUT IN TEE AND VALVE PER UDACS PLT. #30, #34, #39 AND SECTION 2.24.01B	EA	1	-	-
2	INSTALL 6" PVC CLASS 150 DR-18 WATER LINE	LF	78	-	-
3	INSTALL 6" DUCTILE IRON WATER PIPE	LF	3	-	-
4	INSTALL 6" 45° BEND W/THRUST BLOCK PER UDACS PLATE #31	EA	2	-	-
5	INSTALL 6" 90° BEND W/THRUST BLOCK PER UDACS PLATE #31	EA	2	-	-
6	INSTALL HYDRANT ASSEMBLY PER UDACS PLATE #40	EA	1	-	-
7	INSTALL 6"X8"X6" CUT IN TEE AND VALVE PER UDACS PLT. #30, #34, #39 AND SECTION 2.24.01B	EA	1	-	-
8	INSTALL 8" PVC CLASS 150 DR-18 WATER LINE	LF	57	-	-
9	INSTALL 8" DUCTILE IRON WATER PIPE	LF	3	-	-
10	INSTALL 8" 45° BEND W/THRUST BLOCK PER UDACS PLATE #31	EA	2	-	-
11	INSTALL 8" 90° BEND W/THRUST BLOCK PER UDACS PLATE #31	EA	3	-	-
12	INSTALL 1-1/2" RED BRASS PIPE	LF	6	-	-
13	INSTALL 1-1/2" RPPA	EA	1	-	-
14	INSTALL 1-1/2" COPPER WATER LINE	LF	-	66	-
15	SAWCUT AND MATCH EX. AC PAVEMENT PER CCAUSD #S 503, 500.4 AND 500.5	SF	5927	-	-
16	INSTALL COPPER-K PIPE	LF	1	-	-
17	CUT AND CAP PER UDACS SECTION 2.17.04	EA	3	-	-
18	INSTALL 1-1/2" SERVICE SADDLE	EA	1	-	-

SEWER CONSTRUCTION NOTES

#	ITEM	UNIT	PUBLIC	PRIVATE	QUANTITY
1	CONNECT TO EX. SANITARY SEWER PER DCSWCS DWG SD-22	LF	-	1	-
2	INSTALL 6" PVC (SDR-35) SEWER PIPE (PRIVATE)	LF	-	138	-
3	INSTALL 4" PVC (SDR-35) SEWER PIPE (PRIVATE)	LF	-	122	-
4	INSTALL CLEANOUT WITH TRAFFIC BATED BOX PER DCSWCS DWG SD-26	EA	-	2	-
5	INSTALL SAND AND SOIL SEPARATOR-SEE MECHANICAL PLANS FOR SIZING	EA	-	1	-

SEPARATION NOTE

A MINIMUM OF 4.0' SEPARATION IS REQUIRED BETWEEN WATER SERVICE AND SEWER LATERALS PER UDACS 2.22.03.A.1

UTILITY CROSSING NOTES

1. 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.

DRY UTILITY CROSSING NOTES

2. MAINTAIN A MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING
3. MAINTAIN A MINIMUM 3' PARALLEL SEPARATION
4. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE WATER STOP.

FIRE FLOW CALCULATIONS

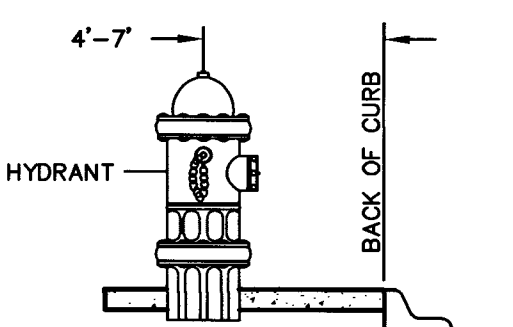
RIRE FLOW REQUIREMENT IS 1500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE

BASED ON:
SQUARE FOOTAGE: 4623 SQ FT
LARGEST FIRE AREA: 4623 SQ FT

BUILDING HEIGHT: 25.0 FT
NUMBER OF STORIES: 1 FLOORS
TYPE OF CONSTRUCTION: TYPE III-B
OCCUPANCY: CAR WASH-B

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES NO

REVIEWED BY: [Signature] DATE: 6/4/19



HYDRANT LOCATION DETAIL
N.T.S.
REFERENCE UDACS PLT. 40
PRIVATE HYDRANTS ONLY

WASTEWATER FLOW CALCULATIONS

COMMERCIAL					
ACREAGE:	1.03				
AVERAGE FLOW:	0.003	MGD			
PEAK SANITARY FLOW:	0.009	MGD			
PEAK WET FLOW:	0.011	MGD			
CALCULATIONS					
AVERAGE=	1.03 ACRES X	10	ERU	250 GPD	1 MGD
			AC	ERU	1000000 GPD
					= 0.003 MGD
PEAK SANITARY FLOW =	3.50 X 0.003				= 0.009 MGD
PEAK WET FLOW =	1.25 X 0.009				= 0.011 MGD

APPROVALS

APPROVED FOR CONSTRUCTION
[Signature] LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136356 FIRST APPROVED DATE: 8/27/19
LVWD APPROVED FIRE FLOW: TOTAL 1500 GPM AT 20 PSI RESIDUAL
[Signature] Southwest Gas Corporation DATE 8/1/19
[Signature] DATE 6/6/19
LAS VEGAS FIRE & RESCUE DATE

DISCLAIMER NOTE

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FIREWAY AND ARTERIAL SYSTEM OF TRANSPORTATION

PROFESSIONAL ENGINEER-STATE OF NEVADA
[Signature]
136356
7/30/19

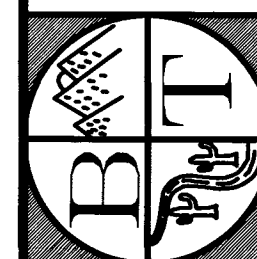
CLV PROJECT # L19-00592

SIENA FREMONT & EASTERN
UTILITY PLAN 1
SECTION 35, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.B. & M. NEVADA
CITY OF LAS VEGAS
APN 139-35-817-006

SHEET
C3.0
5 OF 8
PROJ. NO. 5269

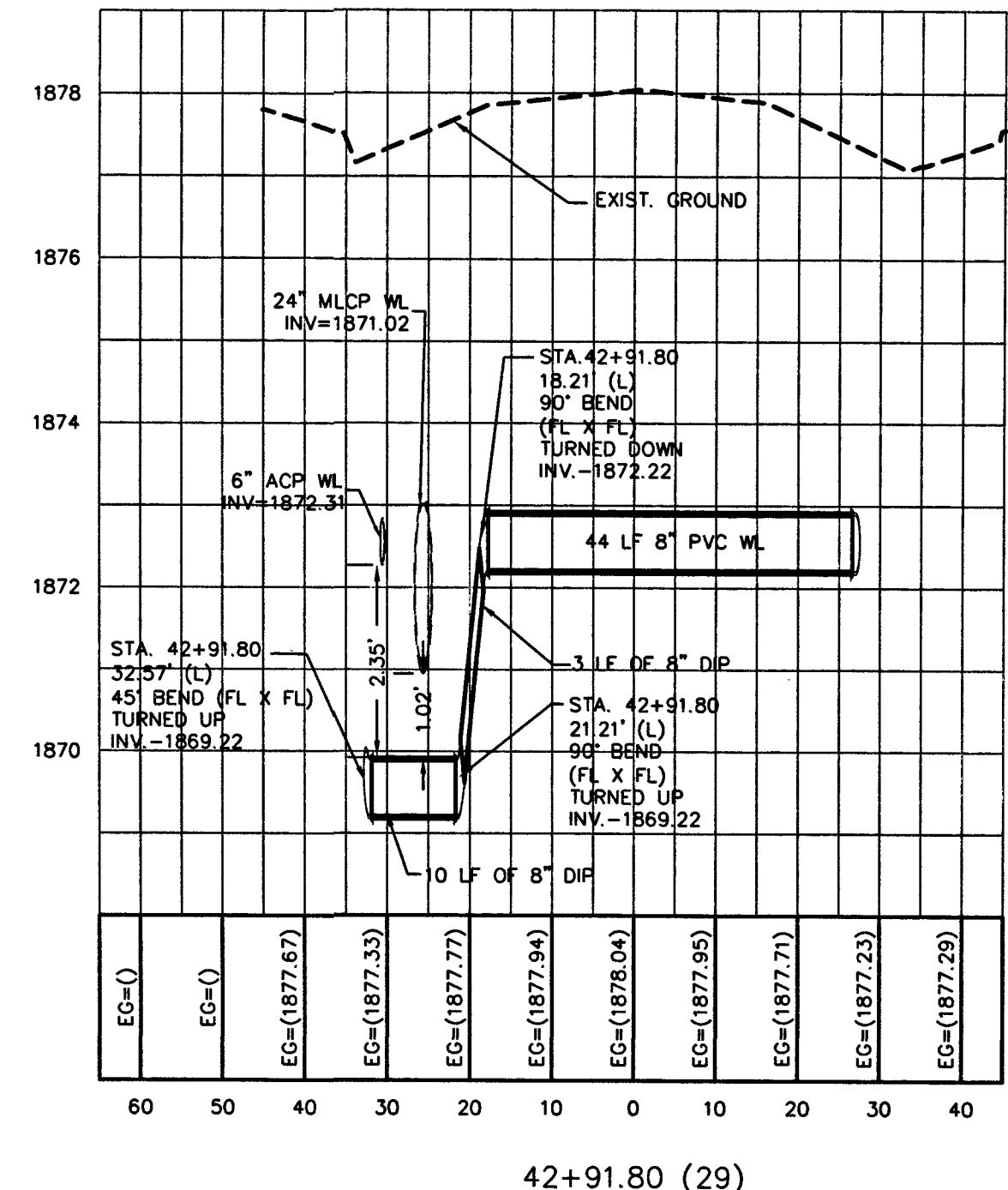
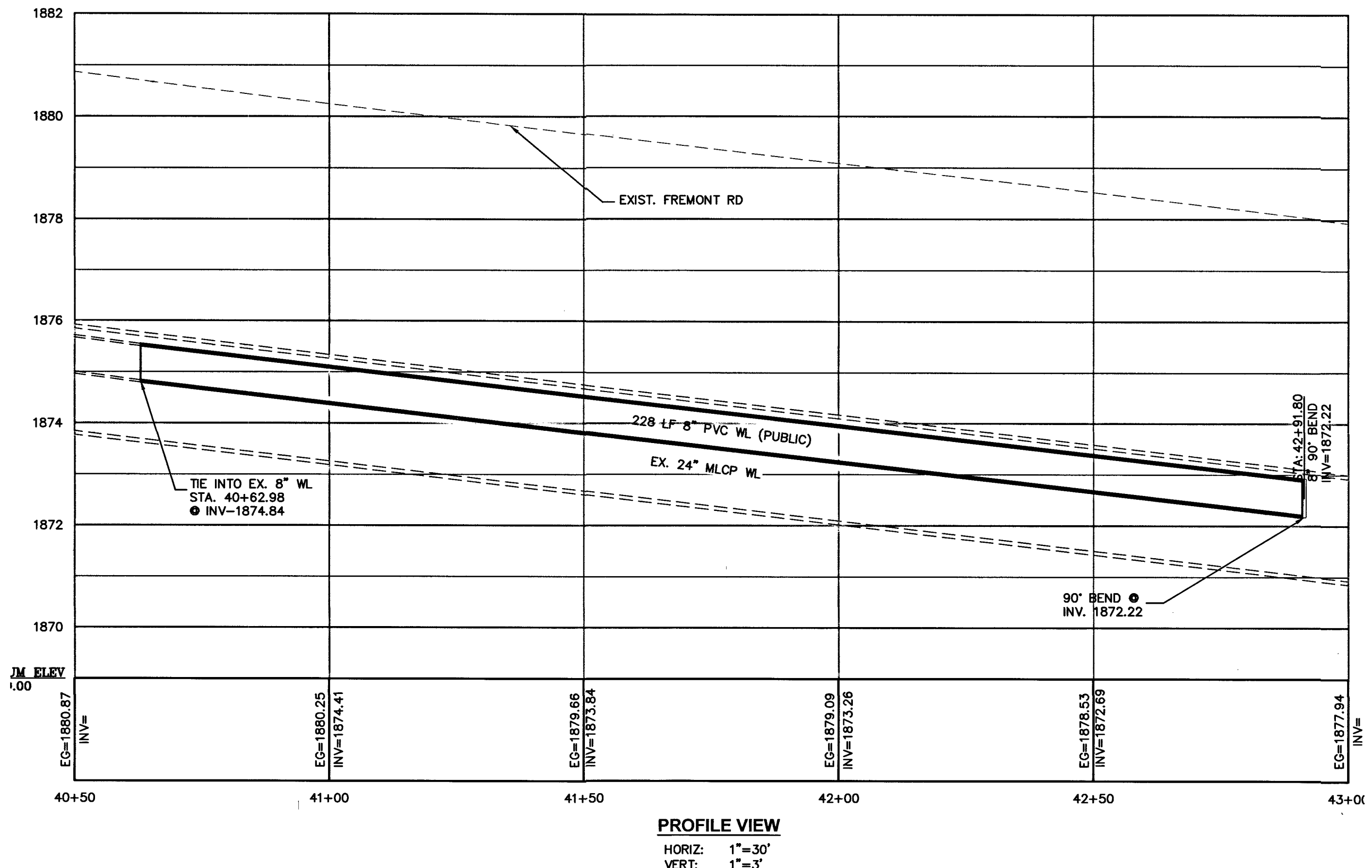
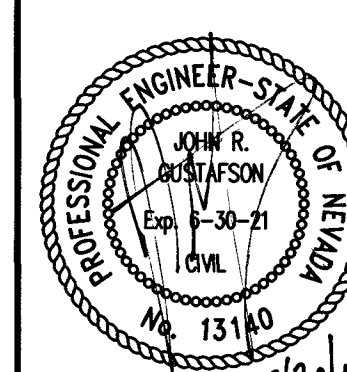
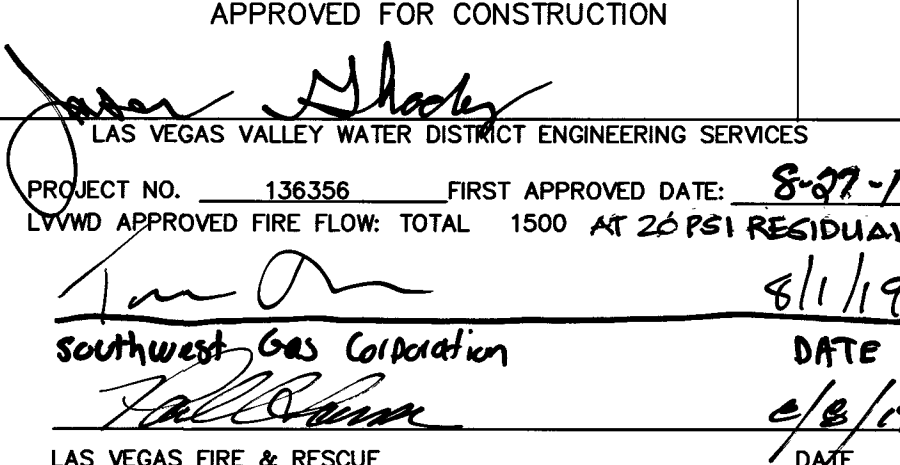
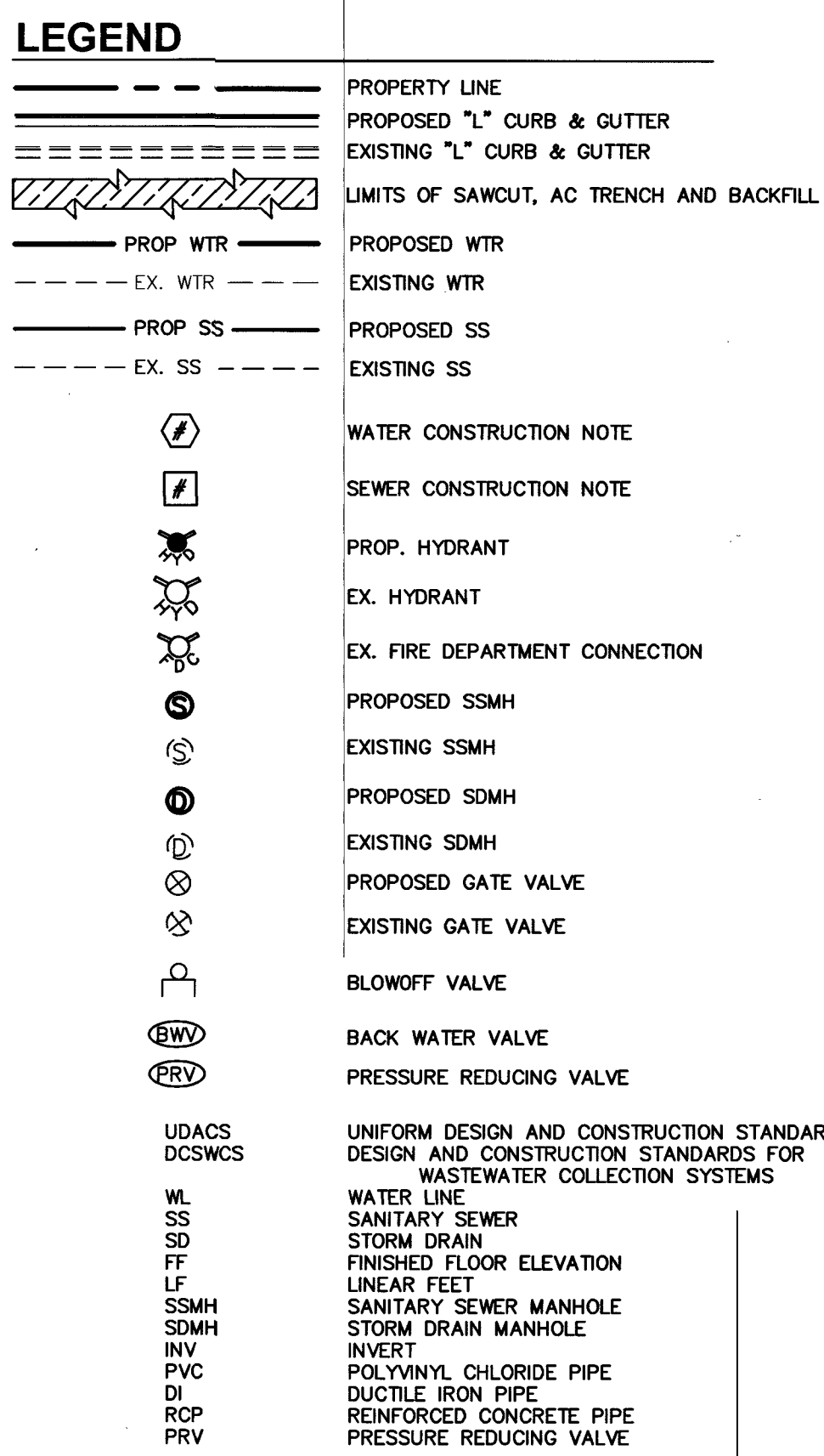
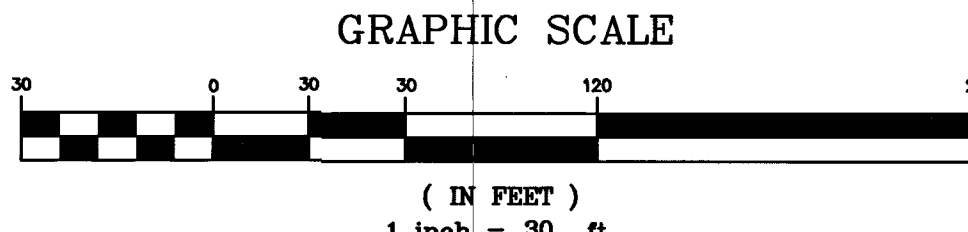
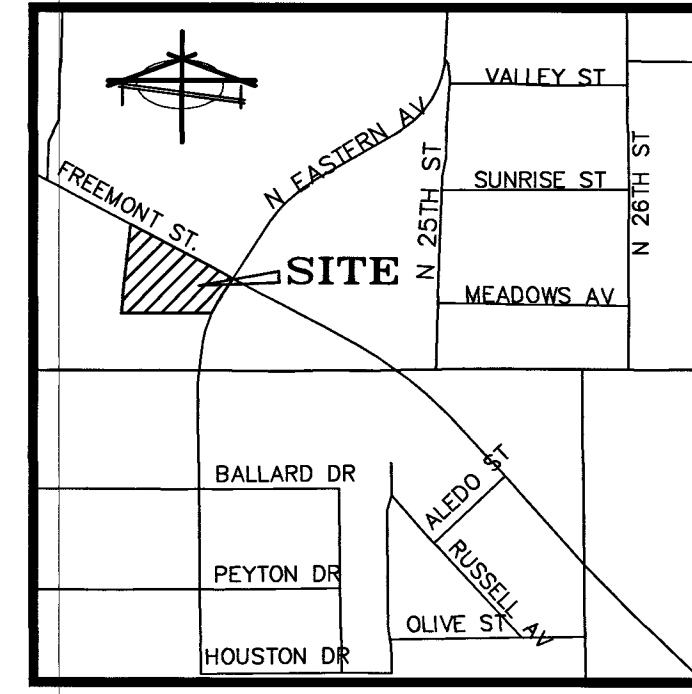
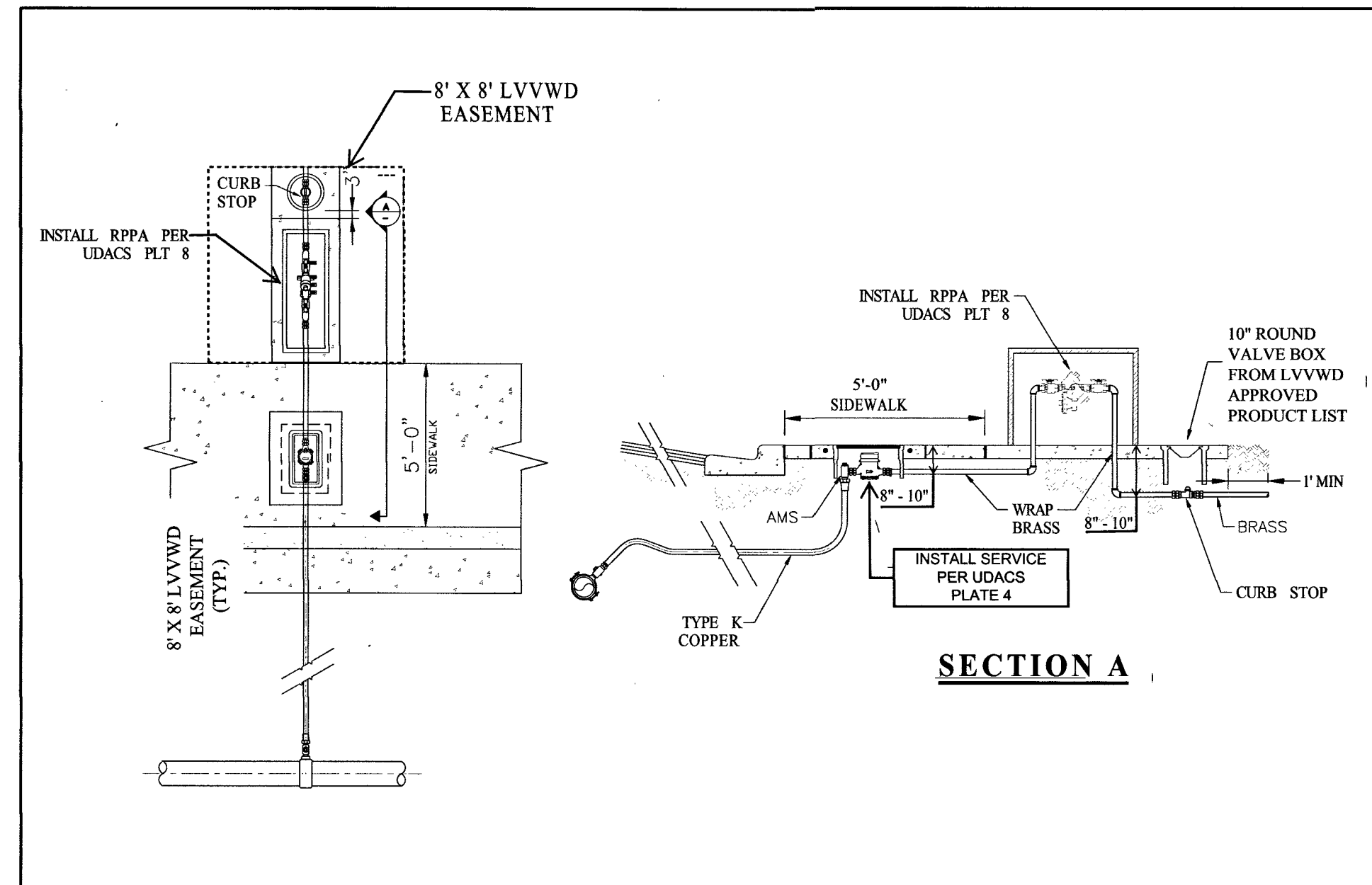
PREPARED FOR:
SIENA HOLDING
10655 PARK RUN DR #160
LAS VEGAS, NV 89104
(702) 596-5611

BAUGHMAN & TURNER, INC.
CIVIL ENGINEERS
1210 HINSON STREET
LAS VEGAS, NEVADA 89102
PHONE: (702) 870-8771 FAX: (702) 878-2695



DATE: 2/18/2019
DESIGN: KP
DRAWN: KP
CHECK: JRG
SCALE:

107V 7767



WATER CONSTRUCTION NOTES

#	ITEM	QUANTITY		
		UNIT	PUBLIC	PRIVATE
(1)	INSTALL 6"X6"X6" CUT IN TEE AND VALVE PER UDACS PLT. #30, #34, #39 AND SECTION 2.24.01B	EA	1	-
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(4)	INSTALL 6" 45° BEND W/THRUST BLOCK PER UDACS PLATE #31	EA	2	-
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(12)	INSTALL 1-1/2" RED BRASS PIPE	LF	6	-
(13)	INSTALL 1-1/2" RPPA	EA	1	-
(14)	INSTALL 1-1/2" COPPER WATER LINE	LF	-	66
(15)	SAWGUT AND MATCH EX. AC PAVEMENT PER CCAUSD #S 503, 500.4 AND 500.5.	SF	5927	-
(16)	INSTALL COPPER-K PIPE	LF	1	-
(17)	CUT AND CAP PER UDACS SECTION 2.17.04	EA	3	-
(18)	INSTALL 1-1/2" SERVICE SADDLE	EA	1	-

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SEPARATION NOTE

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WATER SERVICE AND SEWER LATERALS PER UDACS 2.22.03.A

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BASIS OF BEARING

SOUTH 89°51'04" EAST - BEING THE BEARING
OF CHARLESTON BOULEVARD AS SHOWN IN FILE
203 OF SURVEYS, PAGE 47, CLARK COUNTY
RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CLARK COUNTY BENCHMARK 6C01 35SE6 -
BEING A RIVET AND SQUARE ALUMINUM PLATE
IN TOP OF CURB, NORTHWEST CORNER OF
FREMONT STREET AND 21ST STREET, NEAR PC
OF FREMONT STREET.

572.582 METERS
1878.55 FEET
NAVD 88 DATUM

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FAST

 **Call**
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UnderGround
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

DATE CREATED	REV NO.	REVISIONS	APP'D INITIALS	DATE APPROVED

SIENA HOLDING
10655 PARK RUN DR #160
LAS VEGAS, NV 89104
(702) 596-5611

DATE	2/18/2019
DESIGN	KP
DRAWN	KP
CHECK	JRG
SCALE	

BAUGHMAN & TURNER, INC.

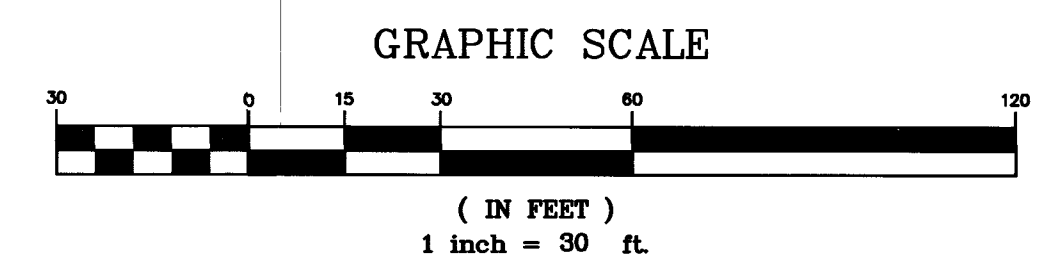
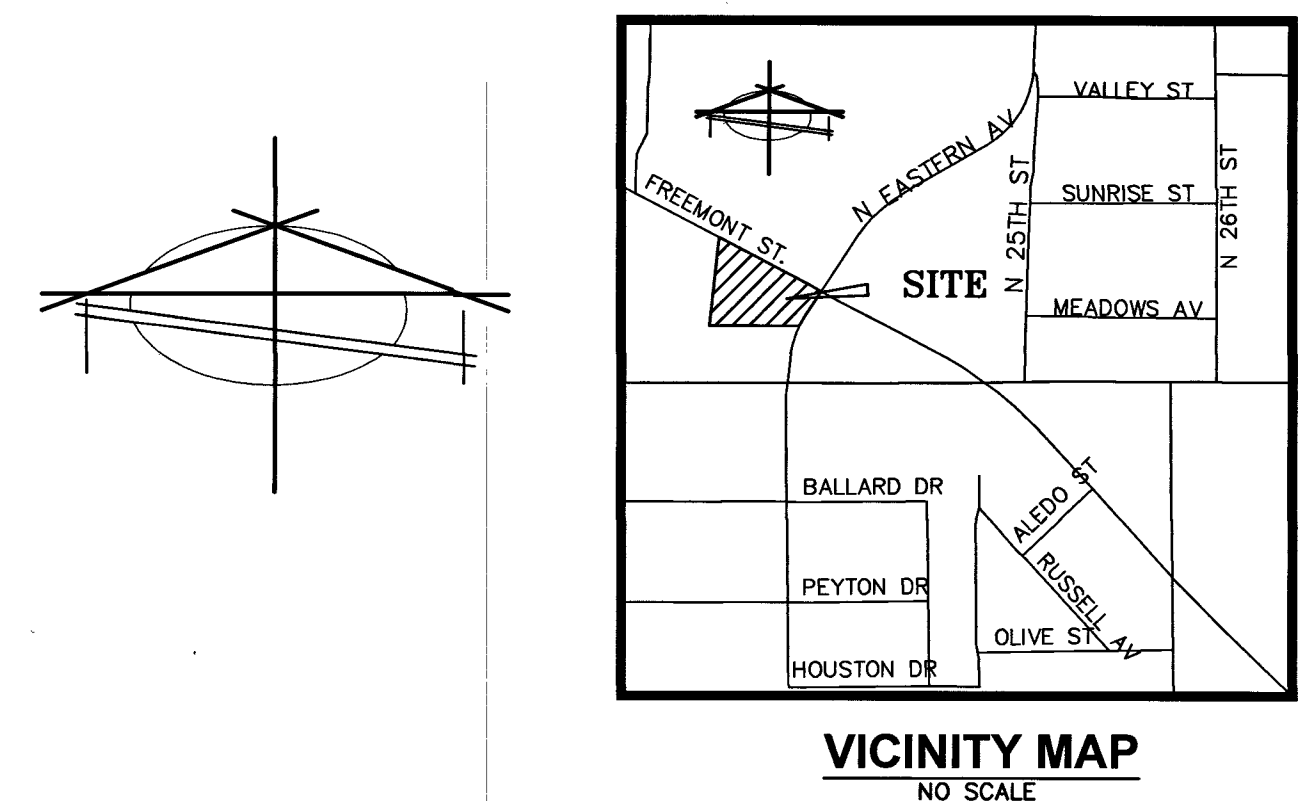
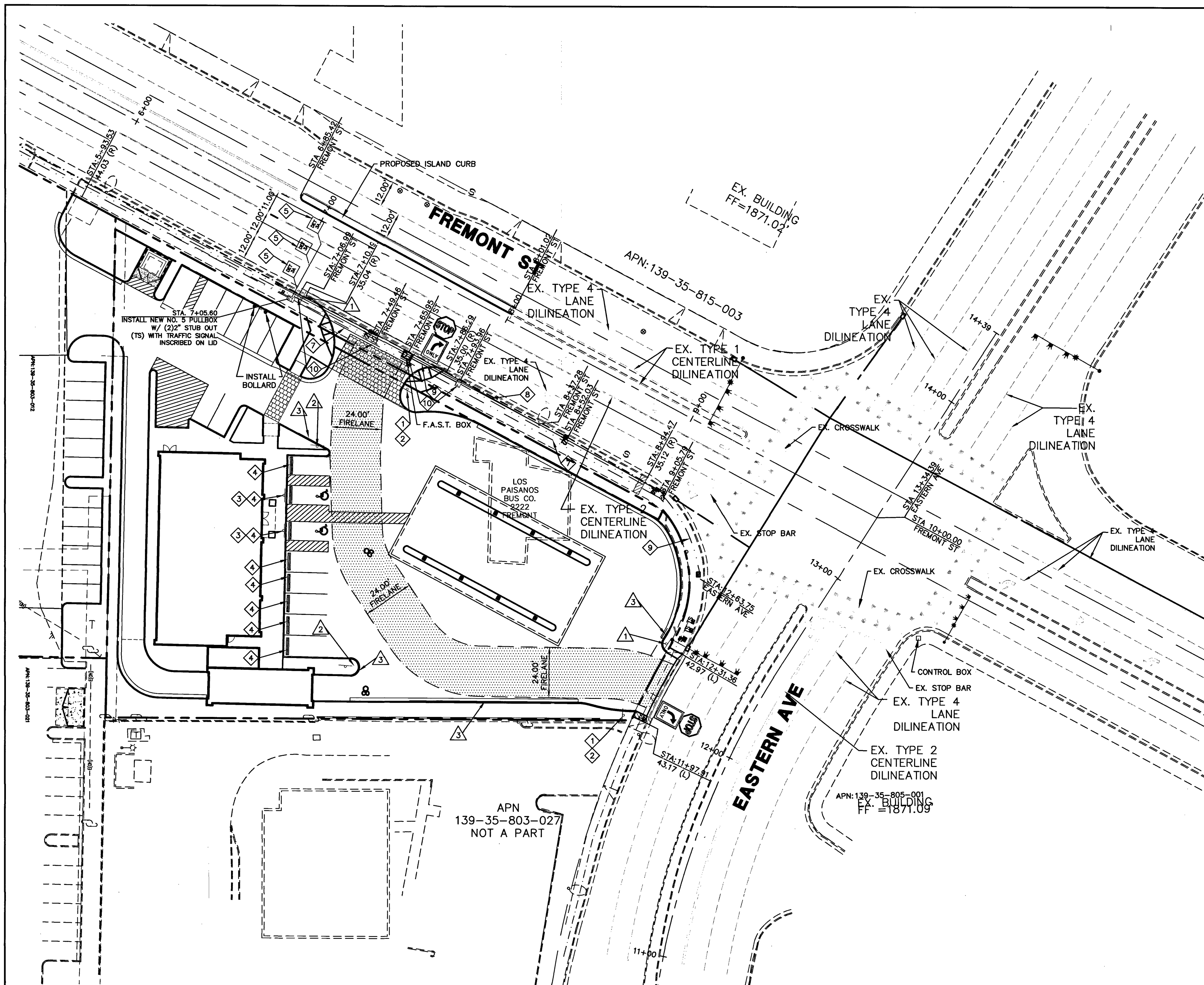
CIVIL ENGINEERS	LAND SURVEYORS	LAND PLANNERS
1210 HINSON STREET	LAS VEGAS, NEVADA	
PHONE: (702) 870-8771	FAX: (702) 878-2695	89102

J. & M. NEVADA

**SIENA FREMONT & EASTERN
UTILITY PLAN 2**
SECTION 35, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.B.
CITY OF LAS VEGAS
APN 139-35-817-006

10
 SHEET
C3.1
 6 OF 8
 PROJ. NO.
 6060

PROJ#:136356A QS:139-35-SE



LEGEND

---	PROPERTY LINE
---	LOT LINE
---	STREET CENTERLINE
---	EXISTING STREETLIGHT CONDUIT
---	EXISTING F.A.S.T. CONDUIT
---	EXISTING FIBER OPTIC
---	PROPOSED STREETLIGHT CONDUIT
---	PROPOSED F.A.S.T. CONDUIT
---	PROPOSED FIBER OPTIC
---	PROPOSED STREET SIGN
---	EX. 100W HPS STREETLIGHT
---	EX. 150W HPS STREETLIGHT
---	EX. 250W HPS STREETLIGHT
---	EX. 400W HPS STREETLIGHT
---	PROP. 100W HPS STREETLIGHT
---	PROP. 150W HPS STREETLIGHT
---	PROP. 250W HPS STREETLIGHT
---	PROP. 400W HPS STREETLIGHT
---	EX. SERVICE PEDESTAL
---	PROP. SERVICE PEDESTAL
---	TRAFFIC CONSTRUCTION NOTES
---	FIRE ACCESS CONSTRUCTION NOTES
---	BOLD CURB WITH RED PAINT & WHITE LETTERING "NO PARKING FIRE LANE" EVERY 50.0 LF
---	FIRE LANE
---	SIGHT VISIBILITY AREA
---	ROADWAY EASEMENT

OWNER
 SIENA XVII HOLDING LIMITED PARTNERSHIP
 10655 PARK RUN DR #160
 LAS VEGAS, NV 89104

DEVELOPER
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 mitch@ogonprop.com

BASIS OF BEARING:
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572.582 METERS
 FEET
 NAVD 88 DATUM

LEGAL DESCRIPTION
 LOT 1 OF CHARLESTON EASTERN, A COMMERCIAL SUBDIVISION, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 153, OF PLATS, PAGE 67, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.

- TRAFFIC CONTROL NOTES**
- ALL CURB ALONG FIRE LANE SHALL BE PAINTED RED, WITH STENCIL LETTERING EVERY 50.0 LF.
 - INSTALL ALL SIGNS, AND SIGN MOUNTS PER CITY OF HENDERSON APPROVED UNIFORM STANDARD DRAWINGS.
 - NO STRUCTURE, VEGETATION, OR OBJECT OF ANY KIND IS PERMITTED OVER TWENTY FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB (IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONE, EXCEPT STREET LIGHTING AND TRAFFIC CONTROL DEVICES.

FIRE ACCESS NOTES

#	ITEM	UNIT	QUANTITY	
			PUBLIC	PRIVATE
1	INSTALL ENTRANCE WARNING SIGN PER DETAIL ON THIS SHEET	EA	-	-
2	INSTALL R8-31 "FIRE LANE NO PARKING" SIGN PER DETAIL THIS SHEET	EA	-	-
3	RED CURB W/ WHITE LETTERING "NO PARKING FIRE LANE"	LF	-	-

TRAFFIC CONTROL / STREETLIGHT NOTES

#	ITEM	UNIT	QUANTITY	
			PUBLIC	PRIVATE
1	INSTALL (R1-1) 30" STOP SIGN AND POLE MOUNT	LF	-	-
2	INSTALL (R3-5R) RIGHT TURN ONLY" SIGN	EA	-	-
3	INSTALL (R7-8) "ADA PARKING ONLY" SIGN	LF	-	-
4	INSTALL WHEEL STOP	EA	-	-
5	INSTALL 6"x6" CUT IN LOOP DETECTOR PER CCAUSD #B32	EA	-	-
6	MOVE BOX FROM CURRENT LOCATION TO INDICATED LOCATION	EA	-	-
7	2" TRAFFIC SIGNAL CONDUIT, PULL NEW WIRE FROM PB AT STA. 7+05.60 ON FREMONT TO TRAFFIC SIGNAL PB AT STA. 7+49.46 ON FREMONT	LF	-	-
8	1 1/4" STREETLIGHT CONDUIT, PULL FROM STREETLIGHT AT STA. 8+37.28 ON FREMONT TO PB AT STA. 7+06.99 ON FREMONT	LF	130	-
9	3" F.A.S.T. CONDUIT, PULL NEW WIRE FROM PB AT STA. 7+93.96 ON FREMONT TO PB AT STA. 7+65.95 ON FREMONT	LF	-	-

PROPOSED SIGNAGE

R1-1 TOP SIGN
NTS

R7-8 "ADA" PARKING SIGN
NTS

R3-5R RIGHT TURN ONLY SIGN
NTS

FIRE LANE ENTRANCE SIGN
NONSTANDARD
NTS

NO PARKING SIGN TYPE "A"
NTS

NO PARKING FIRE LANE
SIGN TYPE "B"
NTS

FIRE LANE DESIGN DETAIL

R=52'
R=28'

NO PARKING FIRE LANE

TYPE "C" SIGNAGE
(PAINTED AND
STENCILED CURBS)
NTS

APPROVALS

[Signature]
 LAS VEGAS FIRE & RESCUE
 DATE: 8/8/19

DISCLAIMER NOTE

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Avoid cutting underground utility lines. It's costly.

811

OR

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CALL BEFORE YOU DIG

1-702-227-2929

FAST

Call before you Dig

Underground

1-702-432-5300

SYSTEM OF TRANSPORTATION

CLV PROJECT # L19-00592

PREPARED FOR: **SIENA HOLDING**
 10655 PARK RUN DR #160
 LAS VEGAS, NV 89104
 (702) 598-5511

DATE: 2/18/2019
 DESIGN: KP
 DRAWN: KP
 CHECK: JRG
 SCALE: 1"=30'

BAUGHMAN & TURNER, INC.
 CIVIL ENGINEERS
 1210 HINSON STREET
 LAS VEGAS, NEVADA 89102
 PHONE: (702) 870-8771 FAX: (702) 878-2695

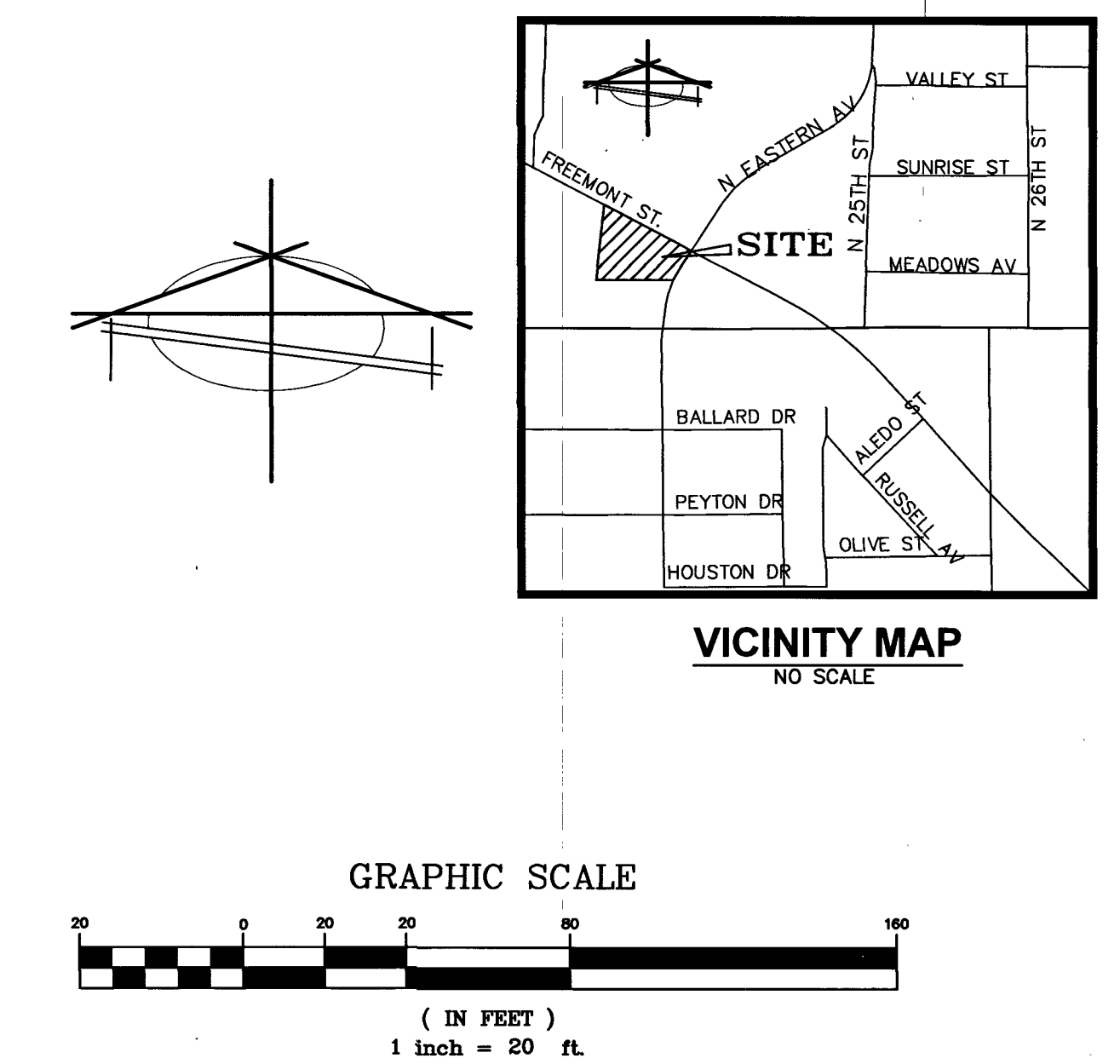
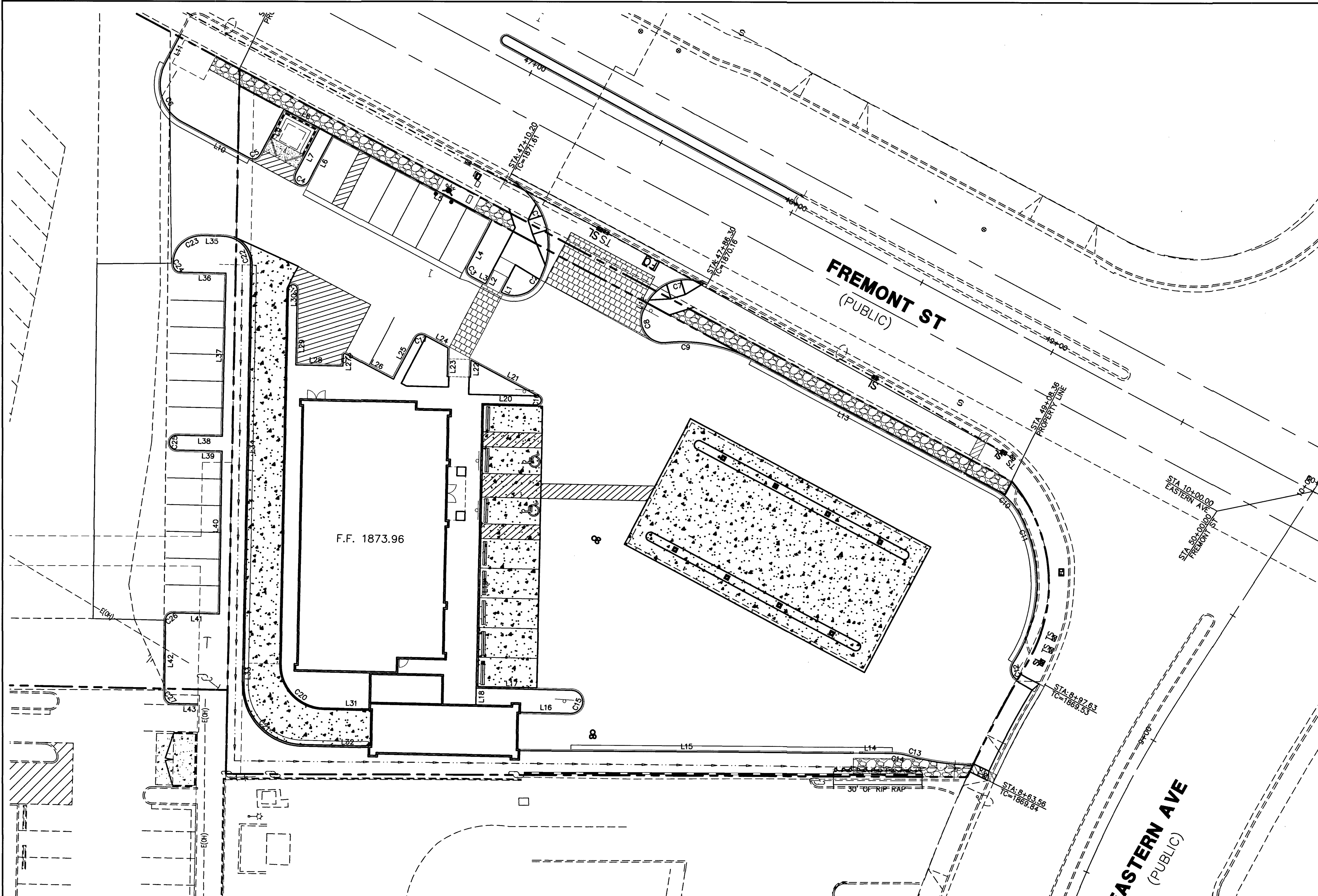
SIENA FREMONT & EASTERN
 TRAFFIC CONTROL PLAN
 SECTION 35, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.B. & M.
 CITY OF LAS VEGAS
 APN 139-35-817-006

SHEET

C4.0

7 OF 8
 PROJ. NO. S269

DATE: 8/8/19



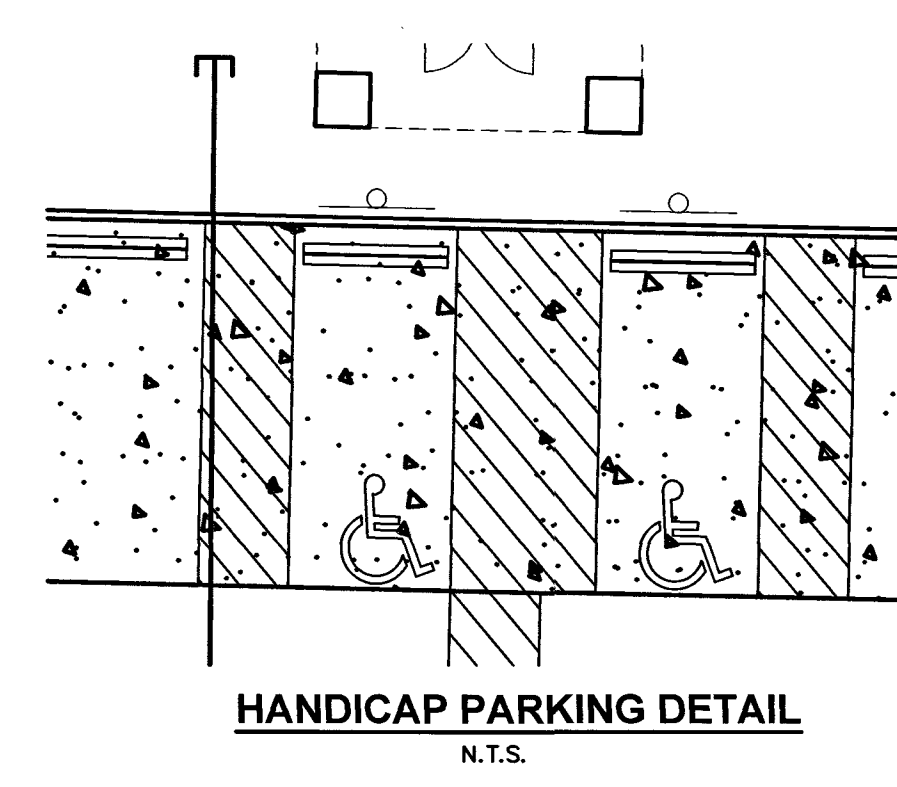
- LEGEND**
- PROPERTY LINE
 - STREET CENTERLINE
 - LOT LINE
 - BUILDING SETBACK LINE
 - PROPOSED ROLL CURB
 - EXISTING "L" CURB & GUTTER
 - EXISTING CONTOUR LINES
 - PROPOSED FLOW LINE
 - SAW CUT LINE
 - PROPOSED EDGE OF PAVEMENT
 - EXIST. EDGE OF PAVEMENT
 - PROPOSED BLOCK WALL
 - PROPOSED SCARP
 - EXIST. BLOCK WALL
 - PROPOSED HYDRANT
 - MATCHLINE
 - SIGHT VISIBILITY ZONE*
 - ROADWAY EASEMENT
 - FF FINISHED FLOOR
 - FL FLOW LINE
 - D/W DRIVE WAY
 - R/W RIGHT OF WAY
 - N.A.P. NOT A PART
 - SET REBAR WITH CAP OR NAIL/TAG PLS 17019
 - FOUND MONUMENT FOR COUNTY CONTROL AS DESCRIBED
 - NOTHING FOUND OR SET

LINE BACK OF CURB TABLE		
Line #	LENGTH	BEARING
L1	5.50	S27°55'58"W
L2	5.50	S27°55'58"W
L3	5.58	S62°04'02"E
L4	17.50	S27°55'58"W
L5	61.00	N62°04'02"W
L6	17.50	S27°55'58"W
L7	17.50	S27°55'58"W
L8	13.67	S62°04'02"E
L9	17.50	S27°55'58"W
L10	25.77	N62°02'54"W
L11	11.46	S27°55'58"W
L12	2.50	N27°55'58"E
L13	80.61	N62°03'40"W
L14	11.17	S89°43'33"E
L15	113.04	S89°43'33"E
L16	17.11	S88°48'12"E
L17	32.28	S88°48'12"E
L18	5.67	S01°11'48"W
L19	95.00	S01°11'48"W
L20	18.55	S88°48'12"E
L21	26.08	S62°04'02"E
L22	5.75	S01°11'48"W

LINE BACK OF CURB TABLE		
Line #	LENGTH	BEARING
L23	9.73	S01°11'48"W
L24	8.85	S62°04'02"E
L25	15.50	N27°55'58"E
L26	18.34	S62°04'02"E
L27	3.70	S01°08'54"W
L28	16.00	S88°51'06"E
L29	25.50	S01°08'54"W
L30	126.52	S01°08'54"W
L31	15.54	S88°48'12"E
L32	22.54	S88°48'12"E
L33	6.00	S01°09'41"W
L34	133.36	S01°08'51"W
L35	7.24	N88°52'24"W
L36	15.50	N88°52'24"W
L37	55.00	N01°20'49"E
L38	15.47	N88°52'24"W
L39	15.50	N88°52'24"W
L40	55.00	N00°58'09"E
L41	15.75	N88°52'24"W
L42	25.55	S00°38'10"W
L43	8.75	N88°52'24"W

CURVE BACK OF CURB TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C1	39.37	25.00	090°13'48"	25.10
C2	14.92	9.50	090°00'00"	9.50
C3	3.93	2.50	090°00'00"	2.50
C4	7.85	2.50	180°00'00"	INFINITY
C5	3.93	2.50	090°00'00"	2.50
C6	22.78	14.50	090°00'00"	14.50
C7	23.56	15.00	090°00'00"	15.00
C8	16.25	7.50	124°08'54"	14.15
C9	30.10	50.50	034°08'54"	15.51
C10	12.03	20.50	033°38'11"	6.20
C11	52.89	49.00	061°50'59"	29.35
C12	6.52	4.00	093°25'22"	4.25
C13	22.06	80.50	015°41'53"	11.10
C14	5.36	19.50	015°44'12"	2.69

CURVE BACK OF CURB TABLE				
CURVE #	LENGTH	RADIUS	DELTA	TANGENT
C15	12.30	3.92	180°00'00"	INFINITY
C16	4.01	1.50	153°15'50"	6.31
C17	3.93	2.50	090°00'00"	2.50
C18	1.02	0.50	116°47'04"	0.81
C19	4.71	1.50	180°00'00"	INFINITY
C20	22.76	14.50	089°57'06"	14.49
C21	32.18	20.50	089°55'48"	20.47
C22	14.93	9.50	090°01'19"	9.50
C23	14.92	9.50	090°00'00"	9.50
C24	3.93	2.50	090°00'00"	2.50
C25	7.85	2.50	180°00'00"	INFINITY
C26	3.95	2.50	090°29'26"	2.52
C27	3.91	2.50	089°30'34"	2.48



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.

Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call
811
OR
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.

CALL-BEFORE-YOU-DIG
OVER-HEAD

1-702-227-2929

FAST
Call before you UnderGround
1-702-432-5300
SYSTEM OF TRANSPORTATION

PROFESSIONAL ENGINEER - STATE OF NEVADA
No. 13148
7/20/19

OWNER/DEVELOPER

OWNER:
MARY BARTSAS 22, LLC
528 EAST OAKY
LAS VEGAS, NV 89104
DEVELOPER:
SIENNA HOLDING
10655 PARK RUN DR #160
LAS VEGAS, NV 89144

BASIS OF BEARING:

SOUTH 89°51'04" EAST - BEING THE BEARING OF CHARLESTON BOULEVARD AS SHOWN IN FILE 203 OF SURVEYS, PAGE 47, CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA.

BENCHMARK

CLARK COUNTY BENCHMARK 6C01 35S66 - BEING A RIVET AND SQUARE ALUMINUM PLATE IN TOP OF CURB, NORTHWEST CORNER OF FREMONT STREET AND 21ST STREET, NEAR PC OF FREMONT STREET.
572.582 METERS
1878.55 FEET
NAVD 88 DATUM

LEGAL DESCRIPTION

LOT 1 OF CHARLESTON EASTERN, A COMMERCIAL SUBDIVISION, AS SHOWN BY MAP THEREOF ON FILE IN BOOK 153, OF PLATS, PAGE 67, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.

PREPARED FOR: **SIENNA HOLDING**
LAS VEGAS, NV 89104
(702) 996-5611

DATE: 2/18/2019
DESIGN: KP
DRAWN: KP
CHECK: JRG
SCALE:

BAUGHMAN & TURNER, INC.
CIVIL ENGINEERS
1210 HINSON STREET
LAS VEGAS, NEVADA 89102
PHONE: (702) 870-8771 FAX: (702) 878-2695

SIENNA FREMONT & EASTERN
HORIZONTAL CONTROL PLAN
SECTION 35, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.B. & M., NEVADA
CITY OF LAS VEGAS
APN 139-35-817-006

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