

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION, THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA", LATEST REVISED EDITION, THE "SUMNER/LRN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMNER/LRN AREA, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLP PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY TO THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB. ALL CONTROL JOINTS TO BE ONE-EIGHTH INCH (1/8") SAWCUTS IN CONCRETE SLAB MAXIMUM.
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPLETION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FLOW TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE SOILS ENGINEER APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APPRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF MDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLIP OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLIP SHALL INCLUDE AT A MINIMUM ALL HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

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 BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
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.
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 MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" IS SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVWD 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 SHALL 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 G-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6831 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATION.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM 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. IFC § 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. IFC § 3310, § 3312.
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. IFC § 507.5.7.3.
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. IFC § 106.3.
7. ALL ON-SITE UNDERGROUND WORK MAINS AND MATERIALS SHALL BE U.L. LISTED A.W.W.A. APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. IFC § 507.2.1, NFPA 24.
8. PAINTING OF 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. IFC § 507.
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC § 507.5.7.1.
10. PRIOR TO THE 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. IFC § 507.
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: IFC § C102.
 - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
 - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE 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 OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. IFC § C102.8.
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. IFC § C102.10.
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.4.
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.7.
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. IFC § C102.6.
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS FOUR (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 SPRINKLER LEAD-INS 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 THREE (3) FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. IFC § C104.
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. IFC § 503.2.3.
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 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. IFC § 503.2.7, § 503.2.8.
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NOT LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. IFC § 503.2.4.
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 INCHES. IFC § 503.2.1.
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33 FT 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 LOTS SHALL BE NOT LESS THAN 24 FT. IFC § 503.2.1.1.
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 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. IFC § 503.1.1.

LYVWOOD PROJECT #136454
(REVISED 08/01/2017)

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LYVWOOD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LYVWOOD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 PM THE BUSINESS DAY PRIOR TO THE REQUESTED LYVWOOD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LYVWOOD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE LYVWOOD DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF THE UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAIN 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 LYVWOOD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LYVWOOD 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 USES.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LYVWOOD 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 LYVWOOD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE LISTED ON THE LYVWOOD 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 LYVWOOD 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 LYVWOOD 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 ADJUTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LYVWOOD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LYVWOOD WITH AN APPROPRIATELY SIZED PLAN FINISH CONCRETE PATCH. THE LYVWOOD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LYVWOOD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT DRINKING WATER.
15. 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.

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 SUBGRADE 0.11+ to 0.01' TO -0.1'. SEE SOILS REPORT B. ENGINEERED FILL 0.5+ to 0.1' TO -0.1'. SEE SOILS REPORT

CONSTRUCTION TESTING WILL BE PERFORMED BY THE OWNER OR ITS REPRESENTATIVE.

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM PRACTICE 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 SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCLOSED 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 DELIBERATION, 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 PAVING ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CALSSS 627 AND 716 AND SHALL 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 IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER 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 UPON 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 INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA 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 (RTIC), 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 SET BY METRO AND WILL 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 PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS 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 LAKE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

THERE ARE NO DEVIATIONS FROM APPLICABLE CLARK COUNTY STANDARDS, UNLESS STATED IN THE SPECIFICATIONS.

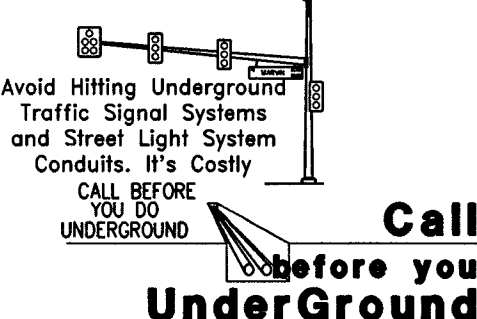
1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRICITY SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS:
 - a) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48-HOURS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 702-365-2099

Jason *Shah*
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO: 136454 FIRST APPROVED DATE: 9-9-19

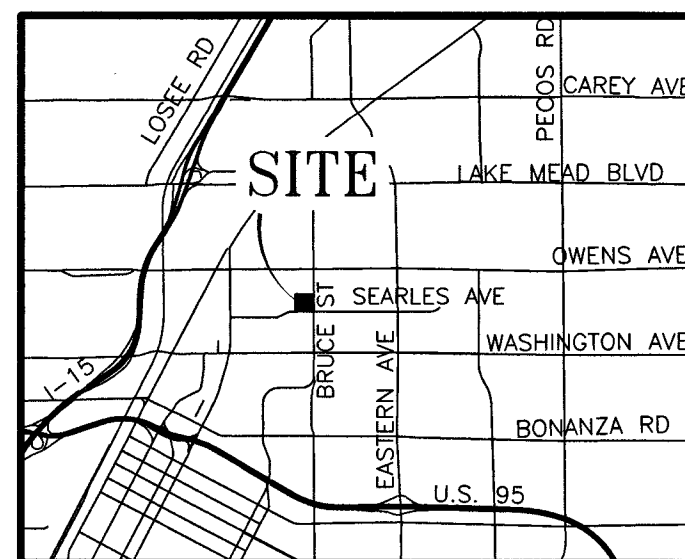
LVVWD APPROVED FIRE FLOW:
TOTAL 1500 GPM/ONSITE 1500 GPM

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR 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 CONTRACTOR TO NOTIFY ENGINEER OF LOCATION. ANY CHANGES OR DISCREPANCIES.



Avoid overhead power lines. Call before you Dig. Avoid cutting underground utility lines. It's costly. Call before you Overhead	Avoid cutting underground utility lines. It's costly. Call 811
--	---

1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-423-5300
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM



VICINITY MAP
NOT TO SCALE

LEGEND

- 1 REMOVE EXISTING SIDEWALK
- 2 REPLACE EXISTING NON-ACCESSIBLE SIDEWALK PER CCAUSD #234, W/ NEW GRADES, SEE PLAN
- 3 SIDEWALK PER CCAUSD #234
- 4 REMOVE/REPLACE EXISTING SIDEWALK FOR UTILITY CROSSING
- 5 CONSTRUCT ACCESSIBLE RAMP W/ TRUNCATED DOMES PER CCAUSD #235
- 6 ACCESSIBLE PARKING SPACE
- 7 RE-STRIP EXISTING PARKING LOT ALONG EXISTING LINES
- 8 INSTALL HANDRAILS ADJACENT TO ACCESSIBLE PATH, SEE ARCHITECTURAL PLANS FOR DETAILS
- 9 PAVEMENT PATCH PER CCAUSD #500.5 & #503
- 10 REMOVE AND REPLACE PAVEMENT, 2' AC PAVEMENT OVER EXISTING COMPACTED BASE
- 11 REMOVE EXISTING SIDEWALK AND CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE #1

	PROPERTY BOUNDARY
	RIGHT-OF-WAY
	PROPERTY LINE
	CENTER LINE
	EASEMENT
	EXST "L" TYPE CURB
	EXST "A" TYPE CURB
	EXST MAJOR CONTOUR LINE
	EXST MINOR CONTOUR LINE
	EXST SCREEN WALL
	EXST EDGE OF PAVEMENT
	EXST EDGE OF SIDEWALK
	EXST UNDERGROUND POWER
	EXST FIBER OPTICS
	EXST GAS
	EXST WATER LINE
	EXST SEWER LINE
	EXST STORM DRAIN

EXISTING	PROPOSED	
WM	WM	METER
FH	FH	FIRE HYDRANT
V	V	VALVE
SWR	SWR	SWR MANHOLE
SC	SC	SEWER CLEANOUT
S	S	STORM MANHOLE
T	T	TELEPHONE BOX
TM	TM	TELEPHONE MANHOLE
FB	FB	FIBER BOX
CTV	CTV	CABLE TV BOX
EM	EM	ELECTRICAL MANHOLE
SL	SL	STREET LIGHT BOX
P	P	POWER POLE
SPO	SPO	SERVICE POLE
GW	GW	GUY WIRE
TF	TF	TRANSFORMER
SLCA	SLCA	STREET LIGHT CABINET
SL	SL	STREET LIGHT
TS	TS	TRAFFIC SIGNAL BOX
AL	AL	AREA LIGHT
		"L" TYPE CURB
		"A" TYPE CURB
		SIDEWALK
		SAWCUT
		SIDEWALK REMOVAL
		PAVEMENT PATCH

LEGEND

EXISTING		PROPOSED	
<u>00.00</u> TC	TOP BACK CURB	<u>00.00</u> TC	TOP BACK CURB
<u>00.00</u> EG	EXISTING GROUND	<u>00.00</u>	FINISH GRADE
<u>00.00</u> EP	EDGE OF PAVEMENT	<u>00.00</u> EP	EDGE OF PAVEMENT
<u>00.00</u> FL	FLOW LINE	<u>00.00</u> FL	FLOW LINE
<u>00.00</u> AC	ASPHALT CONCRETE	<u>00.00</u> AC	ASPHALT CONCRETE
<u>00.00</u> TW	TOP OF RET. WALL	<u>00.00</u> TW	TOP OF RET. WALL
<u>00.00</u> F	TOP OF FOOTER	<u>00.00</u> F	TOP OF FOOTER
		<u>00.00</u> HP	HIGH POINT
		<u>00.00</u> G	GRADE BREAK

ELEVATION: 1865.7 (US SURVEY FEET)
568.665 (METERS)

CITY OF LAS VEGAS BENCHMARK "OLV01
26N6A", RIVET & PLATE IN TOP OF
CURB AT SE CORNER OF BRUCE & TODD
ELEVATION: 1865.7 (US SURVEY FEET)
568.665 (METERS)

ELEVATION: 1865.7 (US SURVEY FEET)
568.665 (METERS)

BASED ON NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD 88).

DISCLAIMER NOTE:

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Avoid overhead power line contact. It's costly.

Call

**before you
Overhead**

1-702-227-2929

Avoid Hitting Underground
Traffic Signal Systems
and Street Light System
Conduits. It's Costly

CALL BEFORE
YOU DO
UNDERGROUND

Call before you
UnderGround

1-702-455-7511

CLARK COUNTY TRAFFIC OPERATIONS
AND

1-702-423-5300
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM

650 125

000.1

IMPROVEMENT PLANS FOR ARCHIE GRANT PARK MODERNIZATION GRADING PLAN

PROJECT NO. 1222

SHT 3 OF 6

DRAWING

G-1

L19-00591

J:\1000-s\1982_Archie_Grant\Civil\Draw\Sheets\C_07_DPH_C01 - 022019.dwg 8/5/2019 3:16 PM Jesse Patchett

APN 139-26-102-007
CHESAPEAKE MEDIA I LLC
COR 20141104:00002527

APN 139-26-101-003
CITY OF LAS VEGAS
OR 69:00402162

FOREMASTER LANE (PUBLIC)

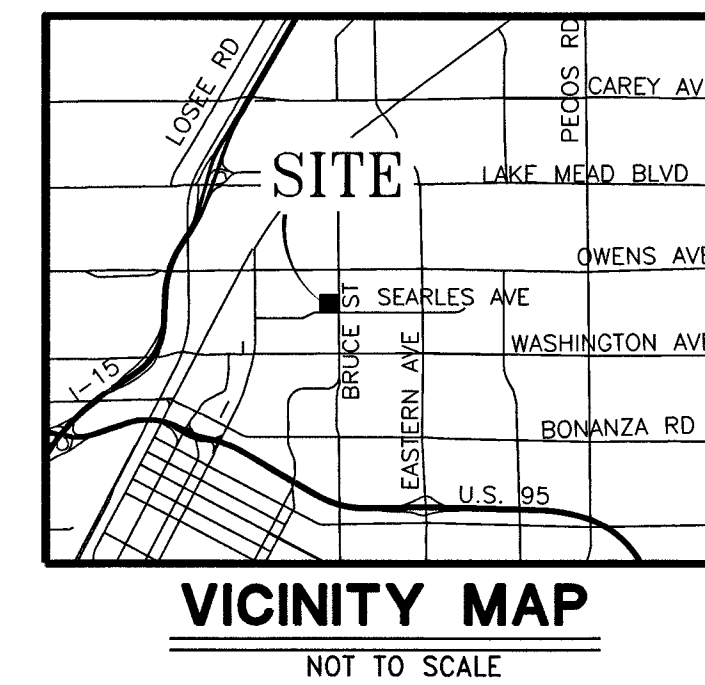
SEARLES AVENUE (PUBLIC)

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

APN 139-26-201-005
SOUTHERN NEVADA HOUSING AUTHORITY
OR 20100205:00000460

30' 15' 0' 30'
SCALE: 1" = 30'



WATER CONSTRUCTION NOTES

- UNDERGROUND UTILITIES LOCATIONS SHOWN ON THE DRAWINGS WERE OBTAINED BY UTILITY LOCATION SERVICE AND SITE SURVEY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR IN THE LOCATION SHOWN ON THE DRAWINGS.
- 8"x10" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE 34 & 39 (UDACS 2.24.01 A)
- 8"x12" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE 34 & 39 (UDACS 2.24.01 B (ACP PIPE))
- 8" RPDA PER UDACS PLATE 56
- PVC WATERLINE (FIRE), SIZE PER PLAN, TRENCH PER UDACS PLATE 17 & 19
- 2" PVC DOMESTIC PVC WATERLINE
- 90° BEND, SIZE PER PLAN, WITH THRUST BLOCK PER UDACS PLATE 31
- 45° BEND, SIZE PER PLAN, WITH THRUST BLOCK PER UDACS PLATE 31
- GATE VALVE, SIZE PER PLAN, WITH THRUST BLOCK PER UDACS PLATE 30 & 39
- 8"x8"x8" TEE WITH THRUST BLOCK PER UDACS PLATE 31
- 8"x6"x6" TEE WITH THRUST BLOCK PER UDACS PLATE 31
- 8"x6"x6" TEE WITH THRUST BLOCK PER UDACS PLATE 31
- SEE M.E.P. PLANS FOR CONTINUATION
- PAYMENT PATCH PER CCAUSD #500.5 & #503
- 4" RPDA PER UDACS PLATE 56
- 11.25° BEND, SIZE PER PLAN, WITH THRUST BLOCK PER UDACS PLATE 31
- FIRE HYDRANT ASSEMBLY COMPLETE WITH VALVE PER UDACS PLATE 40
- 8" CROSS WITH THRUST BLOCK PER UDACS PLATE 31
- 8"x6" REDUCER, WITH THRUST BLOCK PER UDACS PLATE 30 & 39
- VALVE BOX & COLLAR WITH VALVE LOCK
- EXCAVATE AND BACKFILL EX. SEWER LINE W/ CLSM II 10-FT EITHER SIDE OF WATER CROSSING

LVVWD NOTES:

TO ENSURE LVVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDERS, FENCES / WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN EASEMENT.

FIRE FLOW CALCULATIONS CLV FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 1,500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL

BASED ON:	EXISTING 1-BR FOUR-PLEX
SQUARE FOOTAGE:	2,532 SF
LARGEST AREA BETWEEN 4 HOUR SEPARATION WALLS:	2,532 SF
BUILDING HEIGHT	10-FT
NUMBER OF STORIES	1
TYPE OF CONSTRUCTION	V-B
OCCUPANCY	R-2
FULL AUTOMATIC FIRE SPRINKLER SYSTEM	YES
REQUIRED FIRE FLOW (1500 GPM MIN, 50% REDUCTION FOR SPRINKLERS)	1,500 GPM
REVIEW BY:	
DATE:	

EX. UTILITY NOTE

- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK "OLV01 2866A", RIVET & PLATE IN TOP OF CURB AT SE CORNER OF BRUCE & TODD

ELEVATION: 1865.7 (US SURVEY FEET)
568.665 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

BASIS OF BEARINGS

THE CENTERLINE OF OWENS AVENUE AND THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 26, TOWNSHIP 30 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, HAVING A BEARING OF N 89° 47' 09" E, ALSO BEING N 89° 38' 28" E AS SHOWN ON MAP THEREOF ON FILE IN BOOK 120 OF PARCEL MAPS, PAGE 89, OFFICIAL RECORDS, CLARK COUNTY NEVADA.

QUANTITY ESTIMATE

	PRIVATE	PUBLIC
8" RPDA		2 EA
8" PVC WL	1,562 LF	70 LF
6" PVC WL	1,662 LF	
8" GATE VALVE	13 EA	
12"x8" TAPPING SLEEVE AND VALVE		1 EA
10"x8" TAPPING SLEEVE AND VALVE		1 EA
FIRE HYDRANT ASSEMBLY	6 EA	
4" RPDA		1 EA

NOTE: THESE QUANTITIES ARE FOR PLANS CHECKING PURPOSES ONLY AND SHOULD NOT BE USED BY CONTRACTORS TO DETERMINE FINAL QUANTITIES.

APPROVALS:

Jacob Sakaguchi
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO.: 136454 FIRST APPROVED DATE: 9-9-19

LVVWD APPROVED FIRE FLOW:

TOTAL 1500 GPM/ONSITE 1500 GPM

UTILITY NOTES

- ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.2
- CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING SANITARY SEWERLINE PRIOR TO CONSTRUCTION, AND DISCREPANCY TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- EXISTING GAS AND WATER UTILITY LINES TO REMAIN. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE.
- DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

DISCLAIMER NOTE:

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Avoid overhead power lines before you dig.

Call before you dig.

Call before you dig.

Call before you dig.

Avoid hitting underground utilities before you dig.

Call before you dig.

Call before you dig.

Call before you dig.

Call before you dig.

IMPROVEMENT PLANS FOR
**ARCHIE GRANT
PARK MODERNIZATION**
UTILITY PLAN - FIRE SPRINKLER

PROJECT NO.
1982

SHT 4 OF 6

DRAWING
U-1

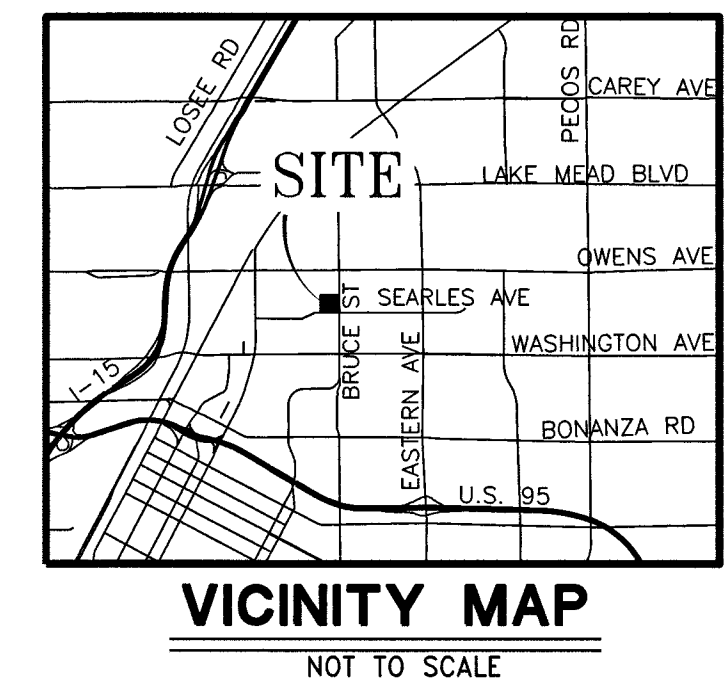
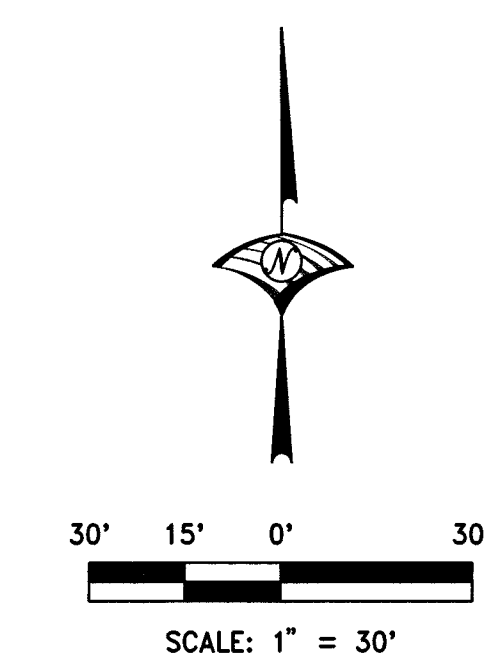
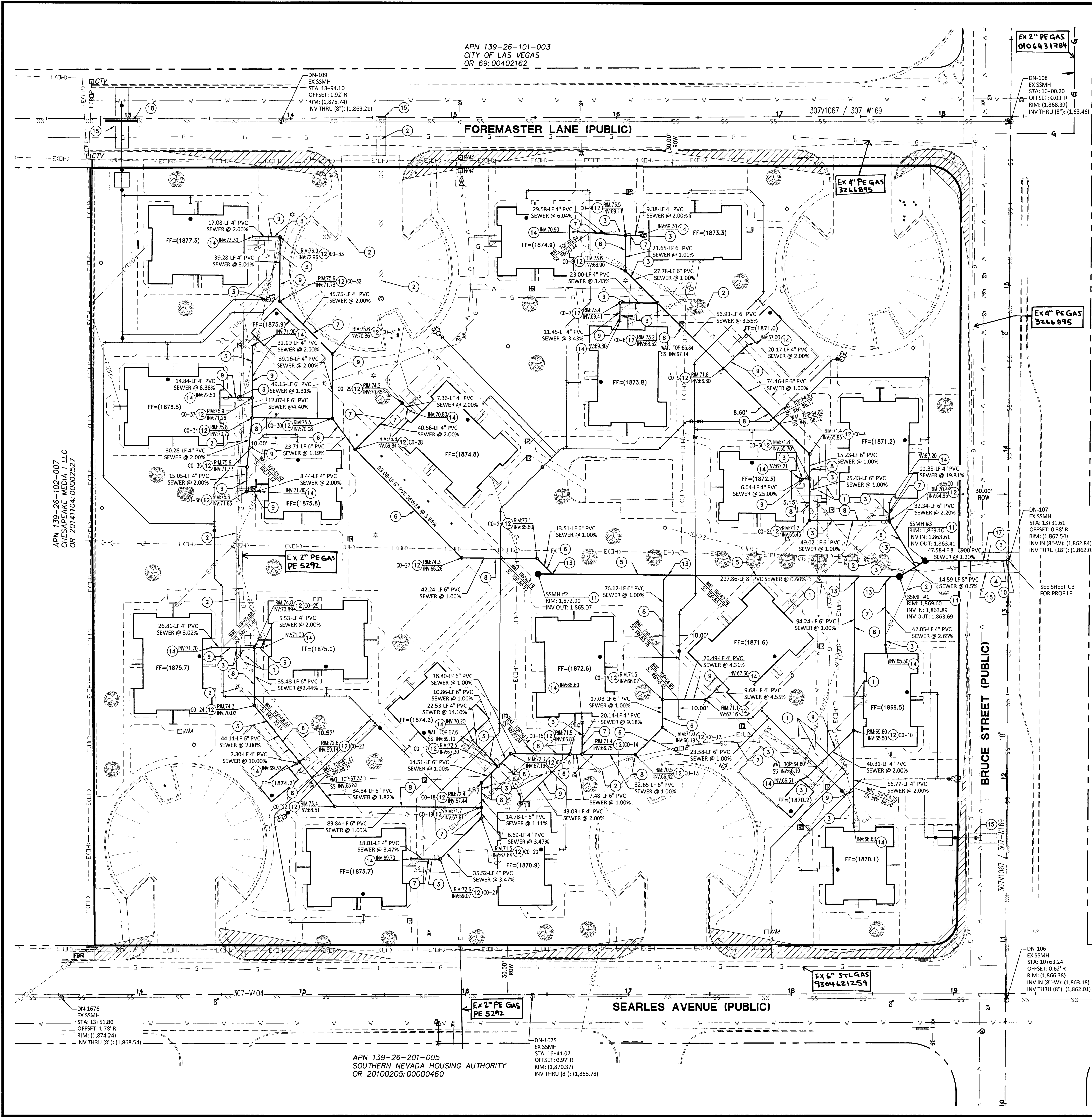
L19-00591

PROJ.#: 136454A QS: 139-26-201

DATE

NO.

DESCRIPTION



SEWER CONSTRUCTION NOTES

- 1. UNDERGROUND UTILITIES LOCATIONS SHOWN ON THE DRAWINGS WERE OBTAINED BY UTILITY LOCATION SERVICE AND SITE SURVEY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR IN THE LOCATION SHOWN ON THE DRAWINGS.
- 2. EXISTING SANITARY SEWER TO BE ABANDONED IN PLACE (ALL ON-SITE SEWER NOT IN CONFLICT WITH PROPOSED IMPROVEMENTS TO BE ABANDONED IN PLACE) PER DCSWCS 3.18.1 METHOD C
- 3. EXISTING SANITARY SEWER TO BE REMOVED (REMOVE ALL EXISTING ON-SITE SANITARY SEWER FACILITIES IN DIRECT CONFLICT WITH PROPOSED IMPROVEMENTS) PER DCSWCS 3.18.1 METHOD C
- 4. 8" SDR35 PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-18 (PAVED RIGHT-OF-WAY) (PRIVATE)
- 5. 8" SDR35 PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16 (ON-SITE) (PRIVATE)
- 6. 6" SDR35 PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16
- 7. 4" SDR35 PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16
- 8. 6" WATER QUALITY PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16
- 9. 4" WATER QUALITY PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16
- 10. REMOVE EXISTING LATERAL AND CONNECT TO EXISTING MANHOLE
- 11. 48" SANITARY SEWER MANHOLE PER DCSWCS DRAWING NO. SD-1A
- 12. CLEAN OUT PER DCSWCS DRAWING NO. SD-26
- 13. LATERAL CONNECTION PER DCSWCS DRAWING NO. SD-22
- 14. SEE M.E.P. PLANS FOR CONTINUATION
- 15. PAVEMENT PATCH PER CCAUSD #500.5 & #503
- 16. PAVEMENT PATCH PER CCAUSD #500.5 & #503
- 17. 8" C900 PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-18 (PAVED RIGHT-OF-WAY) (PRIVATE)
- 18. EXCAVATE AND BACKFILL EX. SEWER LINE W/ CLSM II 10-FT EITHER SIDE OF WATER CROSSING

APPROVALS:

Las Vegas Valley Water District Engineering Services
PROJECT NO: 136454 FIRST APPROVED DATE: 9-9-19
LVVWD APPROVED FIRE FLOW:
TOTAL 1500 GPM/ONSITE 1500 GPM

QUANTITY ESTIMATE

	PRIVATE	PUBLIC
48" SANITARY SEWER MANHOLE	3 EA	
8" PVC SDR35 SANITARY SEWER	234 LF	
8" PVC C900 SANITARY SEWER	48 LF	
6" PVC SDR35 SANITARY SEWER	408 LF	
6" PVC C900 SANITARY SEWER	665 LF	
4" PVC SDR35 SANITARY SEWER	266 LF	
4" PVC C900 SANITARY SEWER	429 LF	
SANITARY SEWER CLEAN OUT	37 EA	

NOTE: THESE QUANTITIES ARE FOR PLANS CHECKING PURPOSES ONLY AND SHOULD NOT BE USED BY CONTRACTORS TO DETERMINE FINAL QUANTITIES.

EX. UTILITY NOTE

- 1. EXISTING UTILITIES DAMAGED DURING CONSTRUCTION ARE TO BE REMOVED AND REPLACED IN KIND A MINIMUM OF 5- FEET EITHER SIDE OF DAMAGED LOCATION

BENCHMARK

CITY OF LAS VEGAS BENCHMARK "OLV01 26N6", RIVET & PLATE IN TOP OF CURB AT SE CORNER OF BRUCE & TODD
ELEVATION: 1865.7 (US SURVEY FEET) 568.665 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

BASIS OF BEARINGS

THE CENTERLINE OF OWENS AVENUE AND THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 26, TOWNSHIP 20 SOUTH, RANGE 81 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, HAVING A BEARING OF N 89° 47' 09" E, ALSO BEING N 89° 38' 29" E AS SHOWN ON MAP THEREOF ON FILE IN BOOK 120 OF PARCEL MAPS, PAGE 89, OFFICIAL RECORDS, CLARK COUNTY NEVADA.

WASTEWATER FLOW CALCULATIONS

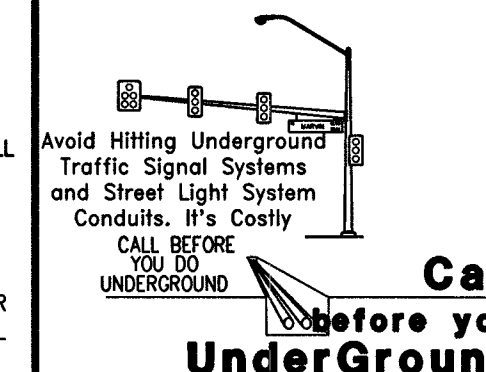
FACILITY TYPE: PUBLIC HOUSING
AVG FLOW
250 GPD x 0.8 ERU/UNIT x 72 UNITS = 14,400 GPD (0.0144 MGD)
PEAK FLOW
14,400 GPD x 3.5 PEAKING FACTOR = 50,400 GPD (0.0504 MGD)
WET WEATHER PEAK FLOW
0.0504 MGD x 1.25 WET-WEATHER FACTOR = 0.063 MGD

UTILITY NOTES

- 1. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.19 OF (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- 2. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING SANITARY SEWERLINE PRIOR TO CONSTRUCTION AND DISCREPANCY TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 3. EXISTING GAS AND WATER UTILITY LINES TO REMAIN. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE.

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Call before you dig
1-702-227-2929

Call before you dig
1-800-227-2600

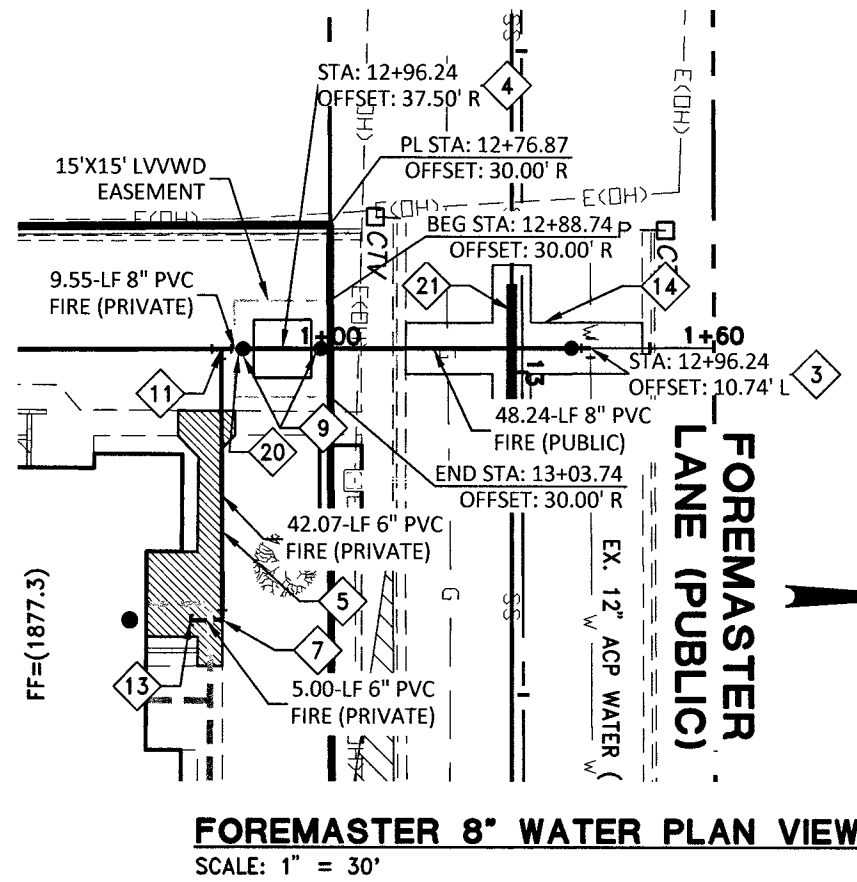
DATE: JULY 23, 2019
SCALE: H:1"=30' V:
DRAWN BY: SDC
DESIGNED BY: JGM
CHECKED BY: JLP

WOOD RODGERS
DESIGN SOLUTIONS
2800 East Pecos Road Ste. 145
Las Vegas, NV. 89123

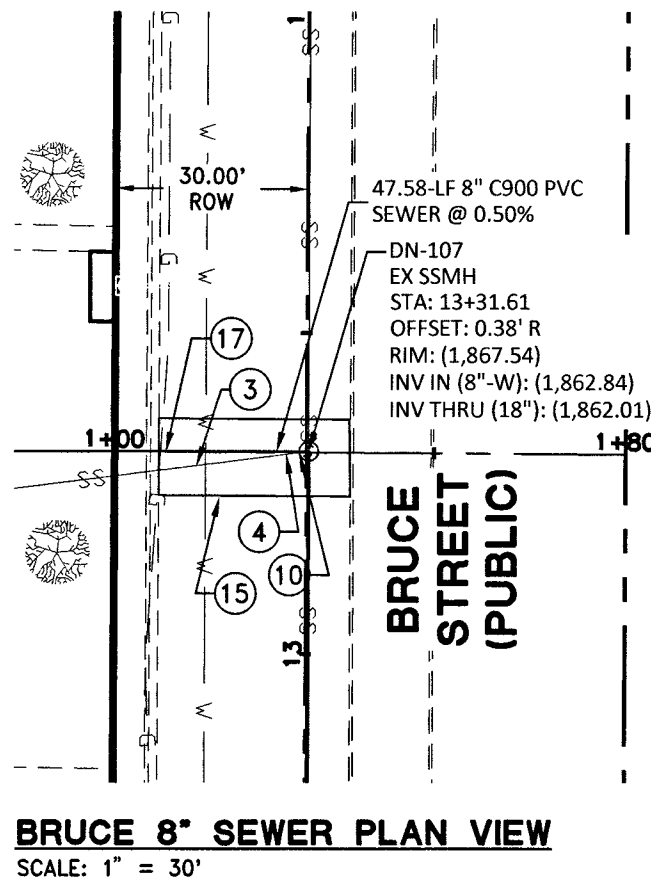
PROJECT NO. 1982
SHT 5 OF 6
DRAWING U-2
L19-00591

UTILITY PLAN - SANITARY SEWER

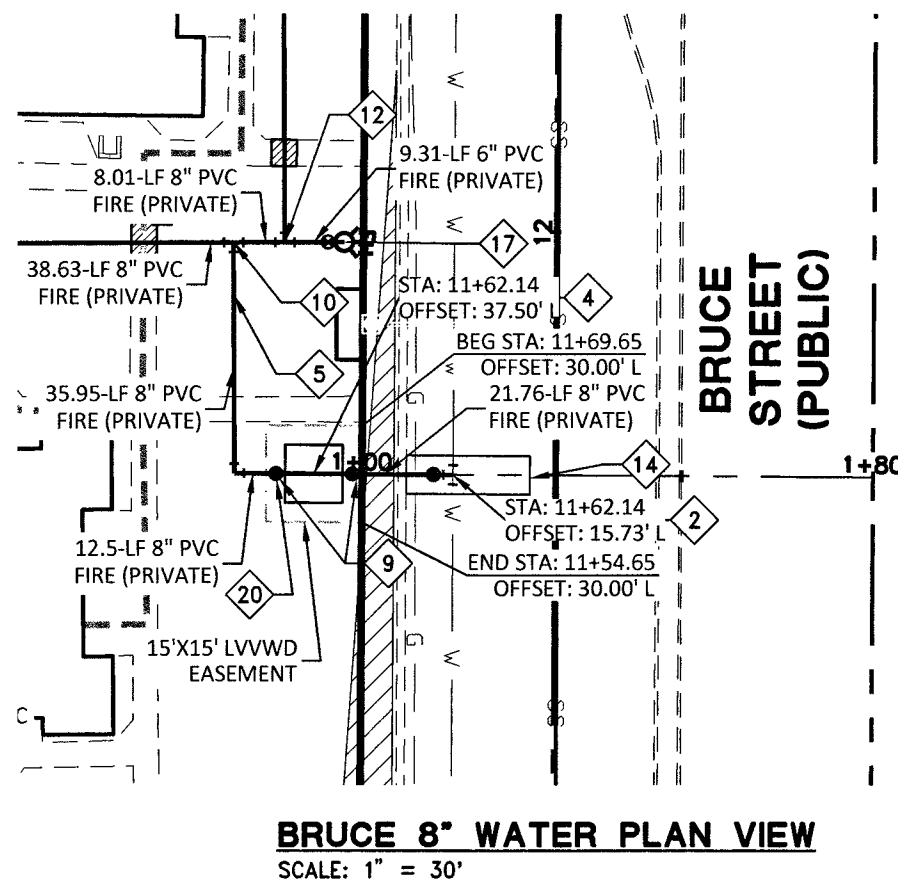
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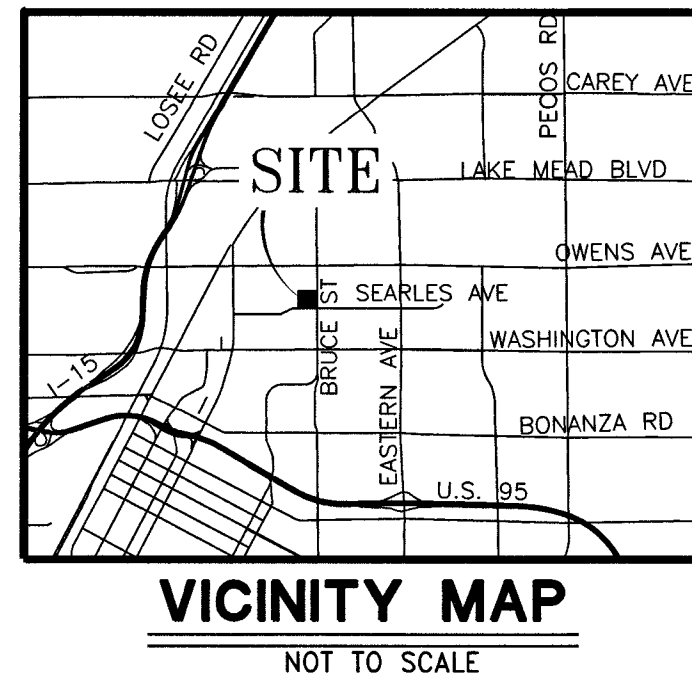
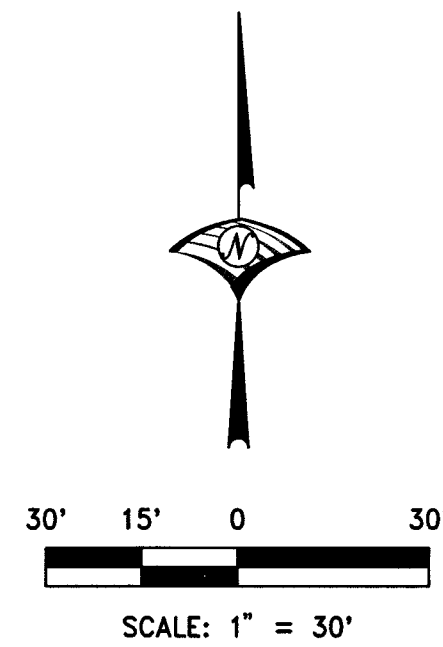
FOREMASTER 8" WATER PLAN VIEW
SCALE: 1" = 30'



BRUCE 8" SEWER PLAN VIEW
SCALE: 1" = 30'



BRUCE 8" WATER PLAN VIEW
SCALE: 1" = 30'



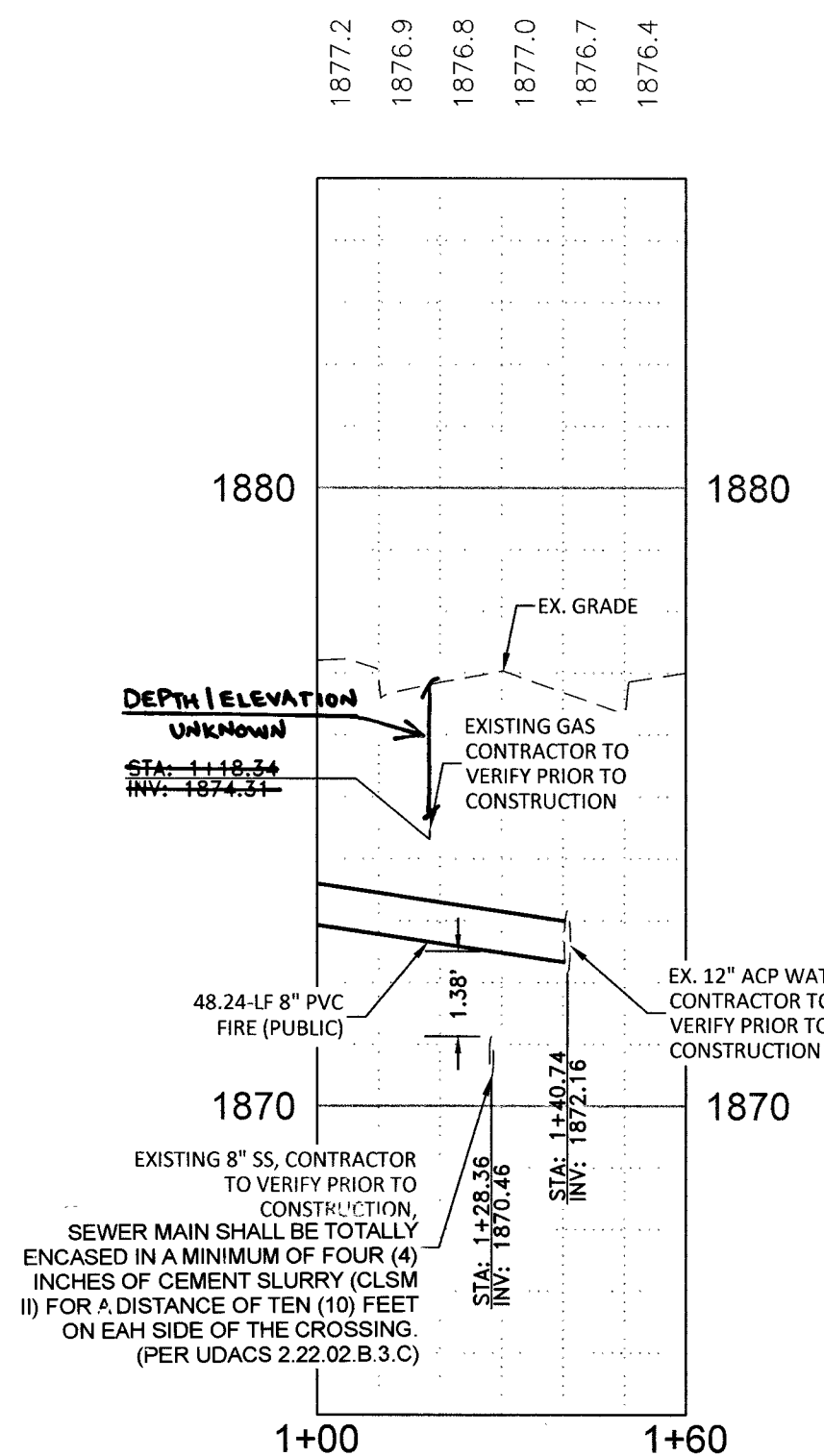
VICINITY MAP
NOT TO SCALE

SEWER CONSTRUCTION NOTES

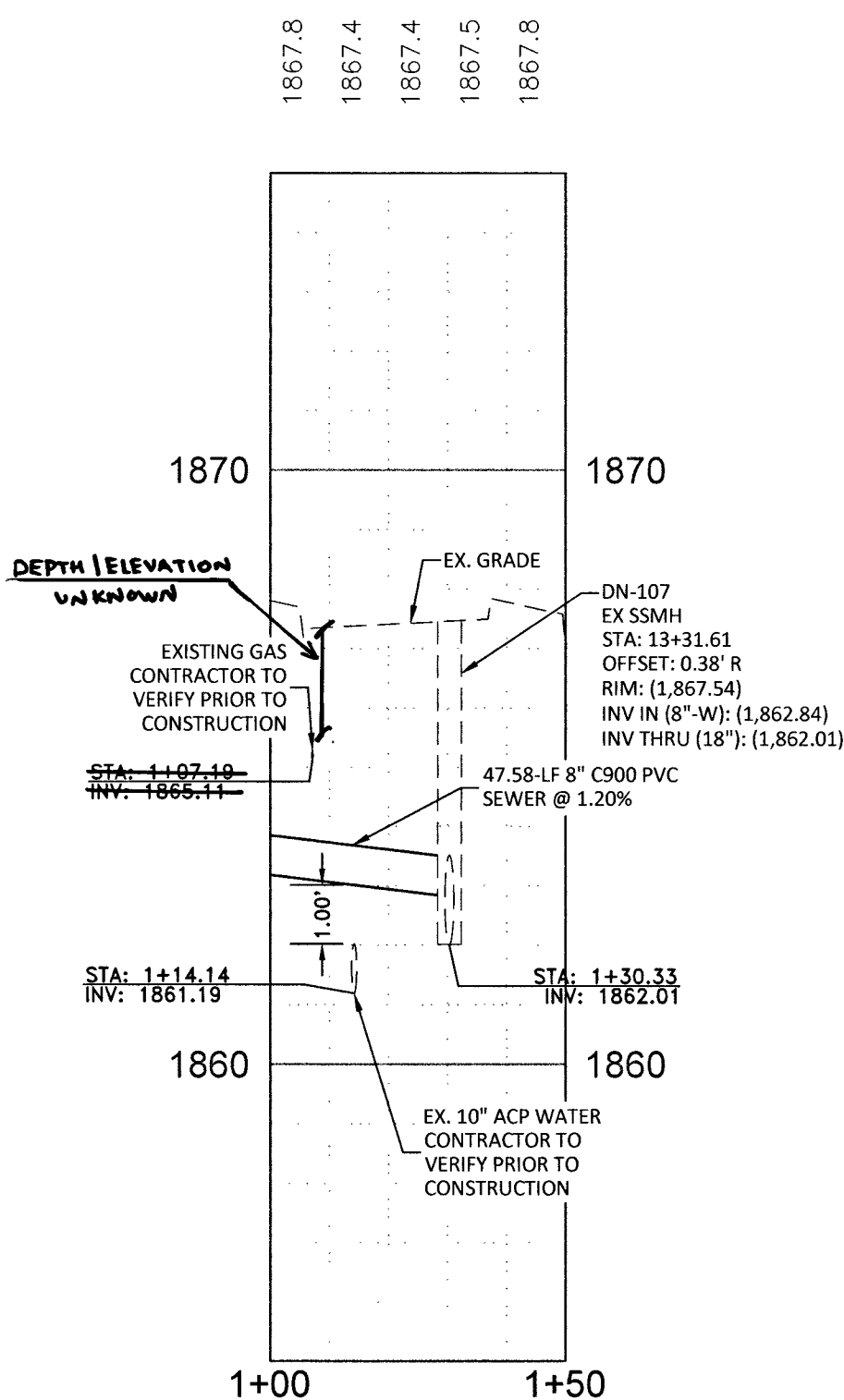
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- 8" SDR35 PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16 (ONSITE) (PRIVATE)
- 6" SDR35 PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16
- 4" SDR35 PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16
- 6" WATER QUALITY PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16
- 4" WATER QUALITY PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-16
- REMOVE EXISTING LATERAL AND CONNECT TO EXISTING MANHOLE
- 48" SANITARY SEWER MANHOLE PER DCSWCS DRAWING NO. SD-1A
- CLEAN OUT PER DCSWCS DRAWING NO. SD-26
- LATERAL CONNECTION PER DCSWCS DRAWING NO. SD-22
- SEE M.E.P. PLANS FOR CONTINUATION
- PAVEMENT PATCH PER CCAUSD #500.5 & #503
- PAVEMENT PATCH PER CCAUSD #500.5 & #503
- 8" C900 PVC SANITARY SEWER, TRENCH PER DCSWCS DRAWING NO. SD-18 (PAVED RIGHT-OF-WAY) (PRIVATE)
- EXCAVATE AND BACKFILL EX. SEWER LINE W/ CLSM II 10-FT EITHER SIDE OF WATER CROSSING

WATER CONSTRUCTION NOTES

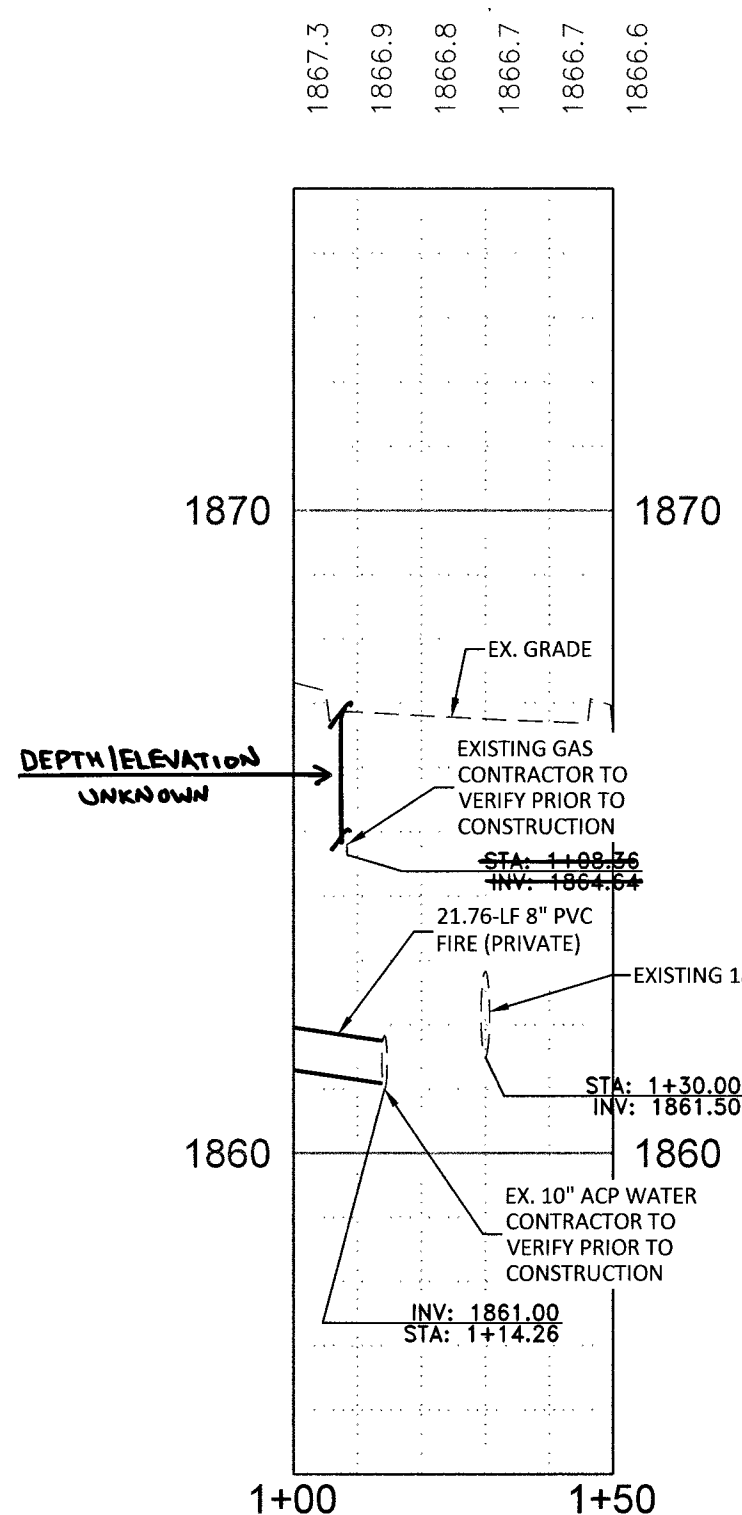
- UNDERGROUND UTILITIES LOCATIONS SHOWN ON THE DRAWINGS WERE OBTAINED BY UTILITY LOCATION SERVICE AND SITE SURVEY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR IN THE LOCATION SHOWN ON THE DRAWINGS.
- INSTALL 8"X8" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE 34 & 39 (UDACS 2.24.01 A)
- 8"X12" TAPPING SLEEVE WITH 8" TAPPING VALVE PER UDACS PLATE 34 & 39 (UDACS 2.24.01 B)
- 8" RPDA PER UDACS PLATE 56
- PVC WATERLINE (FIRE), SIZE PER PLAN, TRENCH PER UDACS PLATE 17 & 19
- 2" PVC DOMESTIC PVC WATERLINE
- 90° BEND, SIZE PER PLAN, WITH THRUST BLOCK PER UDACS PLATE 31
- 45° BEND, SIZE PER PLAN, WITH THRUST BLOCK PER UDACS PLATE 31
- GATE VALVE, SIZE PER PLAN, WITH THRUST BLOCK PER UDACS PLATE 30 & 39
- 8"X8"X8" TEE WITH THRUST BLOCK PER UDACS PLATE 31
- 8"X6"X8" TEE WITH THRUST BLOCK PER UDACS PLATE 31
- 8"X6"X6" TEE WITH THRUST BLOCK PER UDACS PLATE 31
- SEE M.E.P. PLANS FOR CONTINUATION
- PAVEMENT PATCH PER CCAUSD #500.5 & #503
- 6"X8" TAPPING SLEEVE WITH 6" TAPPING VALVE PER UDACS PLATE 34 & 39 (UDACS 2.24.01 B)
- 11.25° BEND, SIZE PER PLAN, WITH THRUST BLOCK PER UDACS PLATE 31
- FIRE HYDRANT ASSEMBLY COMPLETE WITH VALVE PER UDACS PLATE 40
- 8" CROSS WITH THRUST BLOCK PER UDACS PLATE 31
- 8"X6" REDUCER, WITH THRUST BLOCK PER UDACS PLATE 30 & 39
- VALVE BOX & COLLAR WITH VALVE LOCK
- EXCAVATE AND BACKFILL EX. SEWER LINE W/ CLSM II 10-FT EITHER SIDE OF WATER CROSSING (PER UDACS 2.22.02.B.3.C)



FOREMASTER 8" WATER PROFILE VIEW
SCALE: 1" = 30' HORIZONTAL
SCALE: 1" = 3' VERTICAL



BRUCE 8" SEWER PROFILE VIEW
SCALE: 1" = 30' HORIZONTAL
SCALE: 1" = 3' VERTICAL



BRUCE 8" WATER PROFILE VIEW
SCALE: 1" = 30' HORIZONTAL
SCALE: 1" = 3' VERTICAL

EX. UTILITY NOTE

- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK "0LV01 28N6A", RIVET & PLATE IN TOP OF CURB AT SE CORNER OF BRUCE & TODD
ELEVATION: 1865.7 (US SURVEY FEET)
568.665 (METERS)

BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

BASIS OF BEARINGS

THE CENTERLINE OF OWENS AVENUE AND THE NORTH LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 26, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, HAVING A BEARING OF N 89° 47' 09" E, ALSO BEING N 89° 38' 29" E AS SHOWN ON MAP THEREOF ON FILE IN BOOK 120 OF PARCEL MAPS, PAGE 89, OFFICIAL RECORDS, CLARK COUNTY NEVADA.

APPROVALS:

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO: 136454 FIRST APPROVED DATE: 9-9-19
LVVWD APPROVED FIRE FLOW:
TOTAL 1500 GPM/ONSITE 1500 GPM

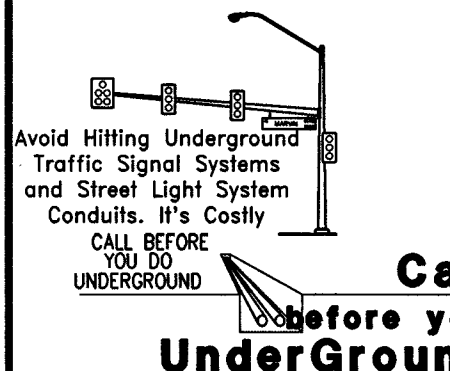
UTILITY NOTES

- ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22
- CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING SANITARY SEWERLINE PRIOR TO CONSTRUCTION, AND DISCREPANCY TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- EXISTING GAS AND WATER UTILITY LINES TO REMAIN. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE.
- DISPOSAL OF ASBESTOS CEMENT PIPE (ACP) SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

DISCLAIMER NOTE:

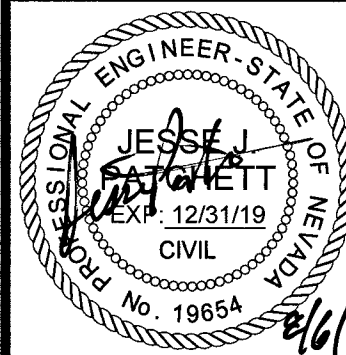
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND OR OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON.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

Call before you Dig
1-702-455-7511
CLARK COUNTY TRAFFIC OPERATIONS
AND
1-702-423-5300
LAS VEGAS AREA COMPUTERIZED TRAFFIC SYSTEM
650.127



IMPROVEMENT PLANS FOR
ARCHIE GRANT PARK MODERNIZATION
UTILITY PLAN - UTILITY PROFILES

PROJECT NO.
1982
SHT 6 OF 6
DRAWING
U-3
L19-00591



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