CLV GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY, NEVADA AREA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA, NEVADA" LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN 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 CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR 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 INTERFERENCES 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 WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE CITY, PRIOR TO 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 OF EVERY 300' IN EXTRUDED-TYPE CURB.

8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.

9. CURB AND GUTTER FOUND 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 TRANSITIONS TO BE AS SHOWN ON PLANS.

12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY_REPORT#, DATE) 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 APRONS, 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 CLEANOUTS, 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 NDOT 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. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE 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, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

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.

CLV STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATION SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY, NEVADA AREA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY, NEVADA AREA", LATEST REVISION.

2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC/ELECTRICAL FIELD OPERATIONS DIVISION AND THE CONSTRUCTION PROJECT REPRESENTATIVE. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623.10.03 (E) OF THE SPECIFICATIONS.

3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.

4. ALL EMPTY CONDUIT SHALL HAVE PULL STRINGS INSTALLED PRIOR TO FINAL INSPECTION.

5. ANY STRUCTURE, SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM OF EIGHTEEN INCHES (18") TO THE FACE OF STREET LIGHTING POLE ON ALL SIDES WHEN STREET LIGHT IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.

6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE ELECTRICAL SERVICES SECTION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWINGS SHALL BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.

7. SERVICE POINTS SHALL BE COORDINATED WITH NEVADA POWER COMPANY, AND WHEREVER POSSIBLE, SHALL BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.

8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRUCIT.

9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREET LIGHT BASES ARE INSTALLED AT NO EXPENSE TO THE CITY OF LAS VEGAS.

10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

LEGAL DESCRIPTION

BEING A PART OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA.

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 5,882.51 CY CUT / 12,330.87 CY FILL / 6,448.35 CY NET FILL
NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENG\IPS\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_C.DWG

CLV TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL OF 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 ZONES. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENT INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.

4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED 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 SHOWN ON THE PLANS. 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 FEET (5') OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGN POST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGN POST 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 HEREUNDER, 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 EQUIPMENT AND FLAG PERSONS NECESSARY TO ENSURE THE SAFETY OF THE PUBLIC IN AND 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 RIGHTS-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 CITIZEN AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET AND SHALL ARRANGE FOR TEMPORARY RELOCATION OF THE STOP.

13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE NO. 229-3442) 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. ALL WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

15. 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 LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

CLV 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 IMMDEDIATELY 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 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. THE 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	0.1'+	+0.0' TO -0.1'	SEE SOILS REPORT
B.	ENGINEERED FILL	0.5'+	+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, BARRICADES, ETC.

STORMWATER RUNOFF MANAGEMENT NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE 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 OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN CLARK COUNTY TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES 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 NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION IIIA.5.

4. AT A MINIMUM, THE CONTRACTOR R 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 AND ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECCESSARY. SOME EXCEPTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER 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.

SOUTHERN NEVADA SOUTHWEST GAS CORP. GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020.
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC.
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/OR STRUCTURES CONTACT 702-365-2099.

Pamela Kennedy (signature) 1.10.19
SOUTHWEST GAS CORPORATION DATE

CLV FIRE DEPARTMENT NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.

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 § 105.7.12]

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 WATER 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 A 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 § C102.12]

15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY ANAPPROVED 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 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [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 NO 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 13FT 6 INS. [IFC § 503.2.1]

23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS
PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE
NO PARKING IS PERMITTED ON EITHER SIDE. 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. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC § 503.1.1]

25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [IFC § 503.1.2]

26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC § 503.2.5]

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 OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE 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. [IFC § 503.3]

28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC § 503.6 AND IFC APPENDIX M.

MANHOLE SCHEDULE						
SSMH#	SIZE	TYPE	STATION & OFFSET	RIM ELEV	INV IN	INV OUT
1	48"	Eccentric Cylindrical Structure	15+81.43 -5.00L (REGENA RIDGE ST)	2632.04		2623.77 (S)
2	48"	Eccentric Cylindrical Structure	15+00.00 -5.00L (REGENA RIDGE ST)	2629.88	2621.53 (N)	2621.33 (S)
3	48"	Eccentric Cylindrical Structure	13+78.80 -5.00L (REGENA RIDGE ST)	2626.03	2618.44 (N)	2618.24 (S)
4	48"	Eccentric Cylindrical Structure	10+04.89 -5.00L (REGENA RIDGE ST)	2622.93	2614.32 (W) 2614.52 (N)	2614.32 (E)
EX #LT-2139	48"	Eccentric Cylindrical Structure	29+54.86 -4.73L (REGENA AVE)	2618.34		2610.17 (W) 2609.97 (E)
EX #LT-2377	48"	Eccentric Cylindrical Structure	26+09.61 -5.27L (REGENA AVE)	2625.71	2618.19 (E)	2618.39 (W)
EX #LT-2378	48"	Eccentric Cylindrical Structure	22+94.39 -4.34L (REGENA AVE)	2633.85	2624.69 (E)	2624.89 (W)

CLV SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF DESIGN & 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 CONTRACTORS TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.

2. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEERS.

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 IN PAVED STREETS EIGHTY FEET (80') R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY FEET (80') WILL REQUIRE RETROFITTING 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 INCHES (12") IN DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. INLINE "Y's" SHALL BE USED ON LINES TWELVE INCHES (12") IN DIAMETER AND ABOVE.

7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A MAIN LINE OR THE SEWER IS LESS THAN EIGHTEEN INCHES (18") UNDER A WATER MAIN.

8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER 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 OF A FOOT (0.1') FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND 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 PVC C900 WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

LAS VEGAS VALLEY WATER DISTRICT NOTES

LVVWD PROJECT #135691

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 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 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. **WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT NUMBER 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 SUPERCEDE 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 INCHES (2") 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 INCHES (2") 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 ACCRODANCE 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 PRODUCT'S 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 LVVWD MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPIATELY 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 PROSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

APPROVED FOR CONSTRUCTION
(signature)
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 3.6.19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

CLV - QUANTITIES

PAVING AND GRADING	PUBLIC	PRIVATE
2" ASPHALT	2,427 SY	0 SY
5.5" ASPHALT	1,105 SY	0 SY
TYPE II	465 CY	0 CY
L-TYPE CURB & GUTTER	564 LF	0 LF
MODIFIED ROLL CURB AND GUTTER	959 LF	0 LF
SIDEWALK	6,450 SF	0 SF
CROSS GUTTER	939 SF	0 SF
SIDEWALK RAMP	2 EA	0 EA

DRAINAGE	PUBLIC	PRIVATE
CONCRETE VALLEY GUTTER	3,865 SF	0 SF
SIDEWALK UNDERDRAIN	1 EA	0 EA

WATER	PUBLIC	PRIVATE
8" PVC WATER	279 LF	0 LF
CAP AND 2" BLOW-OFF ASSEMBLY	1 EA	0 EA
1" WATER SERVICE	0 LF	504 LF
3/4" WATER METER	18 EA	0 EA
FIRE HYDRANT	2 EA	0 EA
10" PVC WATER	371 LF	0 LF

SEWER	PUBLIC	PRIVATE
8" PVC SS	572 LF	0 EA
48" SEWER MANHOLE	3 EA	0 EA
48" MANHOLE W/ CAST-IN-PLACE MANHOLE BASE	1 EA	0 EA

TRAFFIC	PUBLIC	PRIVATE
100' ROW LED STLT	2 EA	0 EA
1 1/4" STLT CONDUIT	336 LF	0 LF
4" F.A.S.T. CONDUIT	334 LF	0 LF
36" R1-1 "STOP" SIGN W/ (2) 9" D-3 "STREET NAME" SIGNS	1 EA	0 EA
4' REMOVABLE BOLLARD	0 EA	16 EA

CONTRIBUTIONS PER WVR-72408 PER CONDITION #6	PUBLIC	PRIVATE
100' ROW LED STLT	2 EA	0 EA
1 1/4" STLT CONDUIT	336 LF	0 LF

OTHER QUANTITIES UNDER CLARK COUNTY JURISDICTION IN SHEET C3.

Avoid overhead power line contact. it's costly.
Call before you Overhead
1-702-227-2929

Call before you Dig
Avoid cutting underground utility lines. it's costly.
CALL 811
OR
1-800-227-2600

BASIS OF BEARING

NORTH 89°45'44" WEST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN BOOK 152 PAGE 04 OF PLATS

BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND 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 EXISTING LOCATIONS.

DEVIATIONS FROM STANDARDS

NONE

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	FG	FINISH GRADE	R	RADIUS
AVE	AVENUE	FH	FIRE HYDRANT	RCB	REINFORCED CONCRETE BOX
BC	BACK OF CURB	FL	FLOW LINE	RCP	REINFORCED CONCRETE PIPE
BCR	BACK OF CURB RADIUS	FT	FEET	ROW	RIGHT-OF-WAY
BFE	BASE FLOOD ELEVATION	G	GRADING	RT	RIGHT
BFP	BACK FLOW PREVENTOR	GB	GRADE BREAK	SD	STORM DRAIN
BLM	BUREAU OF LAND MANAGEMENT	GFF	GARAGE FINISH FLOOR	SHT	SHEET
BM	BENCHMARK	HP	HIGH POINT	STLT	STREETLIGHT
BRPM	BLUE RAISED PAVEMENT MARKER	HPG	HIGH PRESSURE GAS	SNWA	SOUTHERN NEVADA WATER AUTHORITY
BVC	BEGIN VERTICAL CURVE	INV	INVERT	SS	SANITARY SEWER
BW	BOTTOM OF EXISTING WALL	LF	LINEAR FEET	ST	STREET
CATV	CABLE TELEVISION	LN	LANE	STA	STATION
CC	CLARK COUNTY	LS	LANDSCAPE	STD	STANDARD
CCFD	CLARK COUNTY FIRE DEPARTMENT	LT	LEFT	SVZ	SIGHT VISIBILITY ZONE
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	LVVWD	LAS VEGAS VALLEY WATER DISTRICT	SW	SIDEWALK
CL	CENTERLINE	MAX	MAXIMUM	SY	SQUARE YARD
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MH	MANHOLE	TC	TOP OF CURB
CLV	CITY OF LAS VEGAS	MIN	MINIMUM	TELE	TELEPHONE
CMP	CORRUGATED METAL PIPE	NO	NUMBER	TF	TOP OF FOOTING
CNLV	CITY OF NORTH LAS VEGAS	NTS	NOT TO SCALE	T.O.P.	TOP OF PIPE
CO	CLEAN OUT, SEWER	OC	ON CENTER	TR	TOP OF RETAINING
COH	CITY OF HENDERSON	PB	PULL BOX	TW	TOP OF WALL
CY	CUBIC YARD	PC	POINT OF CURVE	TYP	TYPICAL
DCSWCS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS	PCC	POINT OF COMPOUND CURVE	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
		PE	POLYETHYLENE		
DG	DESIGN GRADE	PI	POINT OF INTERSECTION	UT	UTILITY
DI	DROP INLET	PL	PROPERTY LINE	USD	UNIFORM STANDARD DRAWING
DIP	DUCTILE IRON PIPE	PLT	PLATE	VC	VERTICAL CURVE
DR	DRIVE	POC	POINT OF CONNECTION	VCP	VITRIFIED CLAY PIPE
EC	END OF CURVE	PP	POWER POLE	VG	VALLEY GUTTER
EG	EXISTING GRADE	P&P	PLAN AND PROFILE	W	WATER
ELEC	ELECTRICAL	PRC	POINT OF REVERSE CURVE	ZC	ZERO LIP CURB
EP	EDGE OF PAVEMENT	PROJ	PROJECT		
EVC	END VERTICAL CURVE	PRV	PRESSURE REDUCING VALVE		
EX	EXISTING	PT	POINT OF TANGENCY		
FF	FINISH FLOOR ELEVATION	PVC	POLYVINYL CHLORIDE		

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
	REVISIONS				

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8588 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
CLV - GENERAL NOTES AND QUANTITIES

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA
S. JUSTIN THORNE
Exp. 06-30-20
CIVIL
No. 22841
1/9/19

DATE: 1/9/2019
SCALE: N/A
JOB NO: ADV-17-086
DESIGNED BY: BP CHECKED BY: SJT
SHEET NAME: C2
SHEET NUMBER: 02 OF 20
— PW18-18639
107Y5089 L18-02344

PROJ#:135691A QS:125-30-NE

CC GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.

2. EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. (CALL BEFORE YOU DIG 800-227-2600)

3. CONSTRUCTION SURVEY:
GRADES ARE GIVEN FROM TOP OF STAKES OR NAILS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULE IN USING THE GRADE STAKES GIVEN BY THIS OFFICE. THREE CONSECUTIVE POINTS THAT ARE SHOWN TO BE ON THE SAME RATE OF SLOPE MUST BE USED IN COMMON IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED. IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISH WORK.

4. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITIES REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL USE EXTREME CARE WORKING OVER OR NEAR ANY EXISTING GAS MAINS.

5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

6. FENCES, SIGNS, STRUCTURES, LIGHTS AND OTHER EXISTING IMPROVEMENTS WITHIN STREET R/W SHALL BE REMOVED WHERE SHOWN ON THE CONTRACT DRAWINGS, AND AS REQUIRED BY THE ENGINEER.

7. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING FENCES, WALL SIGNS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.

8. THE CONTRACTOR SHALL BACKFILL AND FINAL GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE ENGINEER.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONTRACT DRAWINGS AND IN ACCORDANCE WITH SECTION 609 OF THE "STANDARD SPECIFICATIONS".

10. ALL GRADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION MANUAL AND THE SOILS REPORT AS LISTED WITHIN THE PLAN SET WHERE CONFLICTS OCCUR THE MOST RESTRICTIVE SHALL GOVERN.

11. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:

NV ENERGY	PHONE 1-800-227-2600 OR 811
CENTURYLINK TELEPHONE - NEVADA	PHONE 1-800-227-2600 OR 811
SOUTHWEST GAS CORPORATION	PHONE 1-(702) 400-1789
LAS VEGAS VALLEY WATER DISTRICT	PHONE 1-(702) 870-2011

CC PUBLIC WORKS TRAFFIC NOTES

1. 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 HEREUNDER. REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.

2. 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 GROUND MOUNTED STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.

3. ALL CONSTRUCTION SIGNING, BARRICADING AND PAVEMENT MARKINGS SHALL CONFORM TO THE NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK - 1996 AND TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION.

4. 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 COUNTY TRAFFIC MANAGER.

5. THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE CLASS VI SHEETING.

6. IF A PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF ANY SIGN SHOWN HEREON TO BE MOUNTED ON A SIGN POST, CHANGE SIGN MOUNTING TO ONE ON THE STREETLIGHT STANDARD.

7. PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.

8. ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PEDESTAL FOR CABINETS, AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A.123.

9. ALL STREET LIGHTING INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS, AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, LATEST EDITION OF EACH EXCEPT AS NOTED ON THE STREET LIGHTING PLANS AND LED LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "QPL" FOR LED LUMINAIRES. QPL CAN BE FOUND ONLINE AT HTTP://WWW.CLARKCOUNTYNV.GOV/PUBLIC-WORKS/PAGES/DEFAULT.ASPX.

10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: STREET LIGHTING, TRAFFIC SIGNALS, AND FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.) INTERCONNECT CABLE. YOU MUST CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 455-6000 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO WORKING IN THE AREA. CLARK COUNTY IS NOT A MEMBER OF "CALL BEFORE YOU DIG" (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RELIEVE YOU OF LIABILITY FOR CLARK COUNTY FACILITIES.

11. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER/CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED. TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO THE COUNTY TRAFFIC MANAGER AND TO F.A.S.T. ANY DAMAGE TO THIS CABLE IS DEEMED IN EMERGENCY BY F.A.S.T., CITY OF LAS VEGAS, CLARK COUNTY AND NDOT AND MUST BE REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. $2,500. PER DAY DAMAGES MAY BE ASSESSED AFTER 24 HOURS HAS ELAPSED FROM TIME OF BREAK OR DAMAGE.

12. ALL NEW OR REPLACEMENT TRAFFIC SIGNAL LOOPS SHALL BE INSTALLED USING CABLE-IN-DUCT WIRING, SHALL HAVE INDEPENDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE PULL-BOX AND EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.

13. TRAFFIC SIGNAL PEDESTRIAN HEADS SHALL BE THE LED TYPE.

14. ELECTRICAL POWER SERVICE POINT LOCATION(S) FOR STREET LIGHTING AND TRAFFIC SIGNALS MUST BE INDICATED ON THE PLANS. IF CONNECTING TO AN EXISTING CIRCUIT, INDICATE LOCATION OF EXISTING SERVICE POINT FOR EACH CIRCUIT.

15. WHEN STREET LIGHTS ARE TO BE CONNECTED TO AN EXISTING CIRCUIT, THE ENGINEER MUST CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF HANDLING THE ADDITIONAL CIRCUIT LOAD.

16. CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES WHICH HAVE A "STRIPED" APPEARANCE.

17. TWO WEEKS PRIOR TO BEGINNING OF CONSTRUCTION, MODIFICATION OR RELOCATION OF ANY TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION OF THE DATE THAT WORK WILL BEGIN.

18. THREE (3) NORMAL WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATION(S) TO A TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT WORK IS BEING COMPLETED AND THE PROPOSED DATE OF COMPLETION.

CC PUBLIC WORKS DEVELOPMENT REVIEW NOTES

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE. (702) 455-4610. THE PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.

2. EXACT LOCATION OF ALL SAW-CUT LINES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.

3. CURB AND GUTTER WITH A GRADE LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.

4. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (1/2") INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).

5. ALL OFFSITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION EXCEPT FOR LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "QPL" FOR LED LUMINAIRES. QPL CAN BE FOUND ONLINE AT: HTTP://WWW.CLARKCOUNTYNV.GOV/PUBLIC-WORKS/PAGES/DEFAULT.ASPX..

6. PRIVATE STREETS, CURB AND GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.

7. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATIONS OF RAMPS SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.

8. PROPER SIGNS, BARRIERS, BARRICADES, AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF PUBLIC WORKS OFF-SITE INSPECTOR @ 455-4610.

9. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.

10. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10) FEET OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATE ARE NOT TO BE CONSTRUED AS A TRENCH. NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICH EVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.

11. A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC AND IS TO BE MAINTAINED BY THE PERMITEE. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.

12. COMPACTION TESTS ARE REQUIRED.

CC FIRE DEPARTMENT NOTES

A. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, AND THE NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET #24, CURRENT EDITION.

B. FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE AND MADE SERVICEABLE PRIOR TO AND DURING THE TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 3312 OF THE CLARK COUNTY FIRE CODE, AS AMENDED.

C. IF DURING CONSTRUCTION IT BECOMES NECESSARY TO CLOSE ANY CONTROL VALVE OR PLACE A HYDRANT OUT OF SERVICE, APPROVAL SHALL BE OBTAINED FROM THE FIRE PREVENTION BUREAU PRIOR TO PLACING THE HYDRANT OUT OF SERVICE.

D. PAINTING OF CURBS AND/OR STRIPING OF ASPHALT AREAS AND PROTECTION OF HYDRANTS FROM PHYSICAL INJURY SHALL BE PER THE FIRE HYDRANT INSTALLATION SPECIFICATIONS OF THE FIRE PREVENTION BUREAU.

E. NO FIRE HYDRANT SHALL BE LOCATED WITHIN 25 FEET OF ANY STRUCTURE, OR 6 FEET OF A DRIVEWAY, POWER POLE, LIGHT STANDARD, OR ANY OTHER OBSTRUCTION. FOR WALL, FENCE AND PLANTER LOCATIONS, A PERIMETER AROUND THE HYDRANT MEASURING A MINIMUM OF 3 FEET FROM ITS EXTERIOR SHALL BE MAINTAINED CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES.

F. FIRE APPARATUS ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS, WITH A MINIMUM VEHICLE LOAD OF 33,000 POUNDS PER AXLE, AND SHALL BE SURFACED AND PAVED SO AS TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES.EXCEPTION: TEMPORARY ACCESS ROADS SERVING ONLY BUILDING UNDER CONSTRUCTION SHALL NOT BE REQUIRED TO BE PAVED, BUT SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF SECTION 503.2.3 OF THE CLARK COUNTY FIRE CODE.

G. PRIOR TO ACCEPTANCE OF ANY FIRE SERVICE MAIN, A SATISFACTORY HYDROSTATIC TEST WITH PIPING JOINTS UNCOVERED MUST BE CONDUCTED. APPROVED PLANS, AN INSTALLATION PERMIT AND A CONTRACTOR'S MATERIALS AND TEST CERTIFICATE MUST BE PROVIDED AT TIME OF INSPECTION.

H. FIRE HYDRANTS SHALL BE LOCATED 4' TO 7' FROM BACK OF CURB AND A MINIMUM OF 6 FEET AWAY FROM TURNS.

I. BLUE REFLECTIVE MARKERS MUST BE INSTALLED BEFORE FINAL HYDRANT ACCEPTANCE CAN BE ATTAINED. [SECTION C107 OF THE CLARK COUNTY FIRE CODE, AS AMENDED].

J. HYDRANTS THAT ARE PROPOSED FOR INSTALLATION IN PUBLIC WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE WATER PURVEYOR. HYDRANTS PROPOSED FOR INSTALLATION ON PRIVATE WATER SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED FIRE HYDRANTS AS ALLOWED BY THE FIRE PREVENTION BUREAU.

CC - QUANTITIES

PAVING AND GRADING	PUBLIC	PRIVATE
2" ASPHALT	550 SY	0 SY
5.5" ASPHALT	208 SY	0 SY
TYPE II	97 CY	0 CY
SAWCUT & MATCH EXISTING	1554 LF	0 LF
WATER	**PUBLIC**	**PRIVATE**
8" PVC WATER	1,623 LF	0 LF
45° HORIZONTAL WATER BEND	2 EA	0 EA
8" WATER TEE	1 EA	0 EA
CAP AND 2" BLOW-OFF ASSEMBLY	1 EA	0 EA
TRAFFIC	**PUBLIC**	**PRIVATE**
PAVEMENT STRIPING	178 LF	0 LF

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-6588 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-8233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION

CC - GENERAL NOTES AND QUANTITIES

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 3-6-19
LVVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

REGISTERED PROFESSIONAL ENGINEER S. JUSTIN THORNE Exp. 06-30-20 CIVIL No. 22841 STATE OF NEVADA
9/9/19

DATE:	1/9/2019
SCALE:	N/A
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	C3
SHEET NUMBER:	03 OF 20

PW18-18639
107Y5089 L18-02344

PROJ.#:135691A QS:125-30-NE

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	FG	FINISH GRADE	R	RADIUS
AVE	AVENUE	FH	FIRE HYDRANT	RCB	REINFORCED CONCRETE BOX
BC	BACK OF CURB	FL	FLOW LINE	RCP	REINFORCED CONCRETE PIPE
BCR	BACK OF CURB RADIUS	FT	FEET	ROW	RIGHT-OF-WAY
BFE	BASE FLOOD ELEVATION	G	GRADING	RT	RIGHT
BFP	BACK FLOW PREVENTOR	GB	GRADE BREAK	SD	STORM DRAIN
BLM	BUREAU OF LAND MANAGEMENT	GFF	GARAGE FINISH FLOOR	SHT	SHEET
BM	BENCHMARK	HP	HIGH POINT	STLT	STREETLIGHT
BRPM	BLUE RAISED PAVEMENT MARKER	HPG	HIGH PRESSURE GAS	SNWA	SOUTHERN NEVADA WATER AUTHORITY
BVC	BEGIN VERTICAL CURVE	INV	INVERT	SS	SANITARY SEWER
BW	BOTTOM OF EXISTING WALL	LF	LINEAR FEET	ST	STREET
CATV	CABLE TELEVISION	LN	LANE	STA	STATION
CC	CLARK COUNTY	LS	LANDSCAPE	STD	STANDARD
CCFD	CLARK COUNTY FIRE DEPARTMENT	LT	LEFT	SVZ	SIGHT VISIBILITY ZONE
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	LVVWD	LAS VEGAS VALLEY WATER DISTRICT	SW	SIDEWALK
CL	CENTERLINE	MAX	MAXIMUM	SY	SQUARE YARD
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MH	MANHOLE	TC	TOP OF CURB
CLV	CITY OF LAS VEGAS	MIN	MINIMUM	TELE	TELEPHONE
CMP	CORRUGATED METAL PIPE	NO	NUMBER	TF	TOP OF FOOTING
CNLV	CITY OF NORTH LAS VEGAS	NTS	NOT TO SCALE	T.O.P.	TOP OF PIPE
CO	CLEAN OUT, SEWER	OC	ON CENTER	TR	TOP OF RETAINING
COH	CITY OF HENDERSON	PB	PULL BOX	TW	TOP OF WALL
CY	CUBIC YARD	PC	POINT OF CURVE	TYP	TYPICAL
DCSWS	DESIGN AND CONSTRUCTION STANDARDS FOR WASTE WATER COLLECTION SYSTEMS	PCC	POINT OF COMPOUND CURVE	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
DG	DESIGN GRADE	PE	POLYETHYLENE	UT	UTILITY
DI	DROP INLET	PI	POINT OF INTERSECTION	USD	UNIFORM STANDARD DRAWING
DIP	DUCTILE IRON PIPE	PL	PROPERTY LINE	VC	VERTICAL CURVE
DR	DRIVE	PLT	PLATE	VCP	VITRIFIED CLAY PIPE
EC	END OF CURVE	POC	POINT OF CONNECTION	VG	VALLEY GUTTER
EG	EXISTING GRADE	PP	POWER POLE	W	WATER
ELEC	ELECTRICAL	P&P	PLAN AND PROFILE	ZC	ZERO LIP CURB
EP	EDGE OF PAVEMENT	PRC	POINT OF REVERSE CURVE		
EVC	END VERTICAL CURVE	PROJ	PROJECT		
EX	EXISTING	PRV	PRESSURE REDUCING VALVE		
FF	FINISH FLOOR ELEVATION	PT	POINT OF TANGENCY		
		PVC	POLYVINYL CHLORIDE		

FAST Call before you Underground 1-702-432-5300 FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION

Avoid overhead power line contact. It's costly. Call before you Overhead 1-702-227-2929

Call before you Dig. Avoid cutting underground utility lines. It's costly. CALL 811 OR 1-800-227-2600

LEGAL DESCRIPTION

BEING A PART OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA.

UTILITY DISCLAIMER

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND 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 EXISTING LOCATIONS.

BASIS OF BEARING

NORTH 89°45'44" WEST, BEING THE BEARING OF THE NORTH LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 30, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA, AS SHOWN IN BOOK 152 PAGE 04 OF PLATS

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 5,882.51 CY CUT / 12,330.87 CY FILL / 6,448.35 CY NET FILL
NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

BENCHMARK

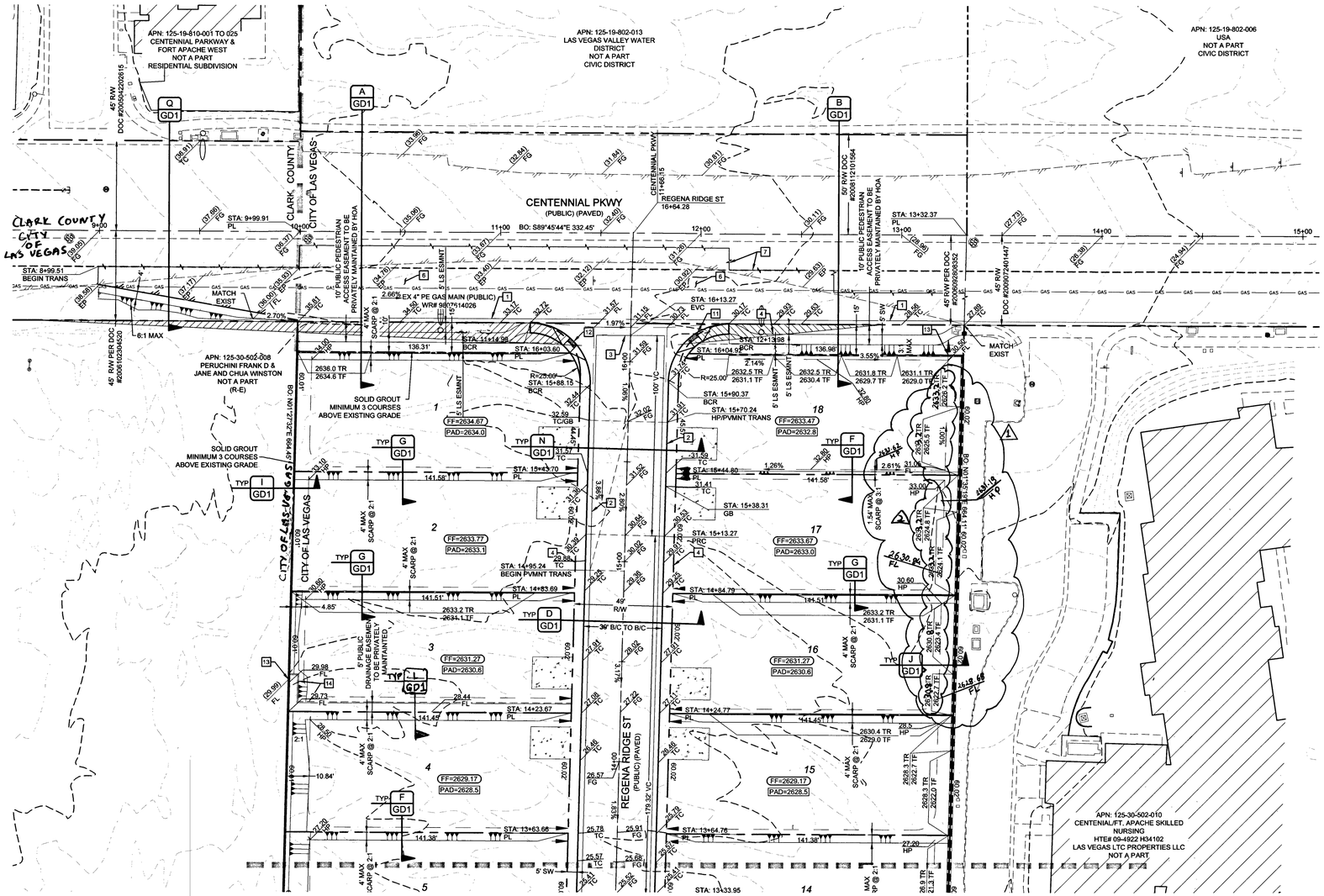
RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

GEOTECHNICAL

AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO: 1916-GEO
DATE: 03/02/18

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGI\PS\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_C.DWG



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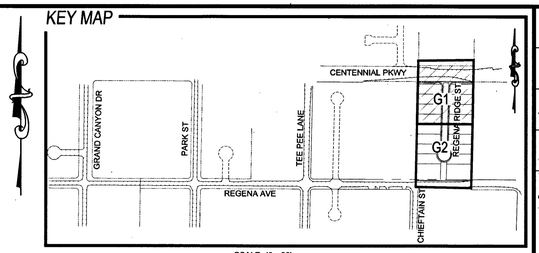

CONSTRUCTION NOTES

1. 24" L-TYPE CURB & GUTTER (USD #216)
2. INSTALL 30" MODIFIED ROLL CURB AND GUTTER (CCAUSD #217.1)
3. 8.0' CROSS GUTTER (USD #228)
4. 5.0' SIDEWALK (USD #234)
5. 2" AC PAVEMENT OVER 4" TYPE II PER SOILS REPORT (HTE XXXX)
6. 5.5" AC PAVEMENT OVER 6" TYPE II PER SOILS REPORT (HTE XXXX)
7. SAWCUT & MATCH EXISTING AC PAVEMENT (USD #500.3, 500.4, 500.5, & 503)
8. INSTALL CONCRETE VALLEY GUTTER (SEE E/GD1)
9. INSTALL SIDEWALK UNDERDRAIN (CCAUSD #236)
10. L-CURB CUT AND GUTTER (SEE M/GD1)
11. SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235 CASE I) A=9.5', B=4.5'
12. SIDEWALK RAMP USING TRUNCATED DOMES OR EQUIVALENT (USD #235) A=8', B=8'
13. INSTALL 16" X 48" BLOCK WALL OPENING (SEE K/GD1)
14. INSTALL SIDEWALK (USD #234) WITH A-TYPE CURB (USD #219)
15. INSTALL REMOVABLE BOLLARD AT 4 O.C (DCSWCS SD-38) DETAIL R/GD1

EARTHWORK

TOTAL FOR OVERALL DEVELOPMENT: 5,882.51 CY CUT / 12,330.87 CY FILL / 6,448.35 CY NET FILL

NOTE: THIS OPINION OF THE CUT AND FILL QUANTITIES IS PROVIDED AS REQUIRED BY THE GOVERNING ENTITY. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES. THESE TOTALS ARE RAW AND DO NOT ACCOUNT FOR SHRINKAGE AND SUBSIDENCE.

FLOOD ZONE

THIS PROJECT IS LOCATED IN FLOOD ZONE "X", AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN PER FIRM PANEL 32003C1745E, REVISED SEPTEMBER 27, 2002.

UTILITY DISCLAIMER

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GRADING NOTES

COMPLETION OF SECTION II OF DRAINAGE COMPLIANCE REPORT REQUIRED.

ADD 2600 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO THE GOVERNING ENTITY.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

GRADING CERTIFICATION - CLV, CC

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, DS4994, ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.
I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, PW18-17756, ON FILE WITH CLARK COUNTY FOR THIS PROJECT.

S JUSTIN THORNE, PE — DATE 1/9/19

PROFESSIONAL ENGINEER - STATE OF NEVADA
S. JUSTIN THORNE
Exp: 6/30/20
CIVIL
No. 22841
7/17/19
FOR REV 1 ONLY

PROFESSIONAL ENGINEER - STATE OF NEVADA
S. JUSTIN THORNE
Exp: 6/30/19
CIVIL
No. 22841
5/29/19
FOR REV 2 ONLY

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 2.6.19
LVVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

GEOTECHNICAL

AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO: 1916-GEO
DATE: 03/02/18

Avoid overhead power line contact. It's costly.
Call before you Overhead
1-702-227-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-227-2600

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING

BY _____ DATE

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.

ACCEPTANCE OF PLANS
Pamela Kennedy 1-10-19
SOUTHWEST GAS CORPORATION DATE

ACCEPTANCE OF PLANS FOR FILING
BY: _____
DEVELOPMENT AND FLOOD CONTROL DATE

REVISIONS

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
1	REVISION TO RETAINING TO KEEP RETAINING WALL 6 FEET MOVED NM TO BE AT THE B/C ADDED SING SHEETS.	SJT	G4	BP	6/17/2019
2	REVISING TO RETAINING WALL TO MATCH PROPOSED	SJT	G4		7/30/19

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8588 FAX:

TAMEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-8233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
GRADING PLAN 1

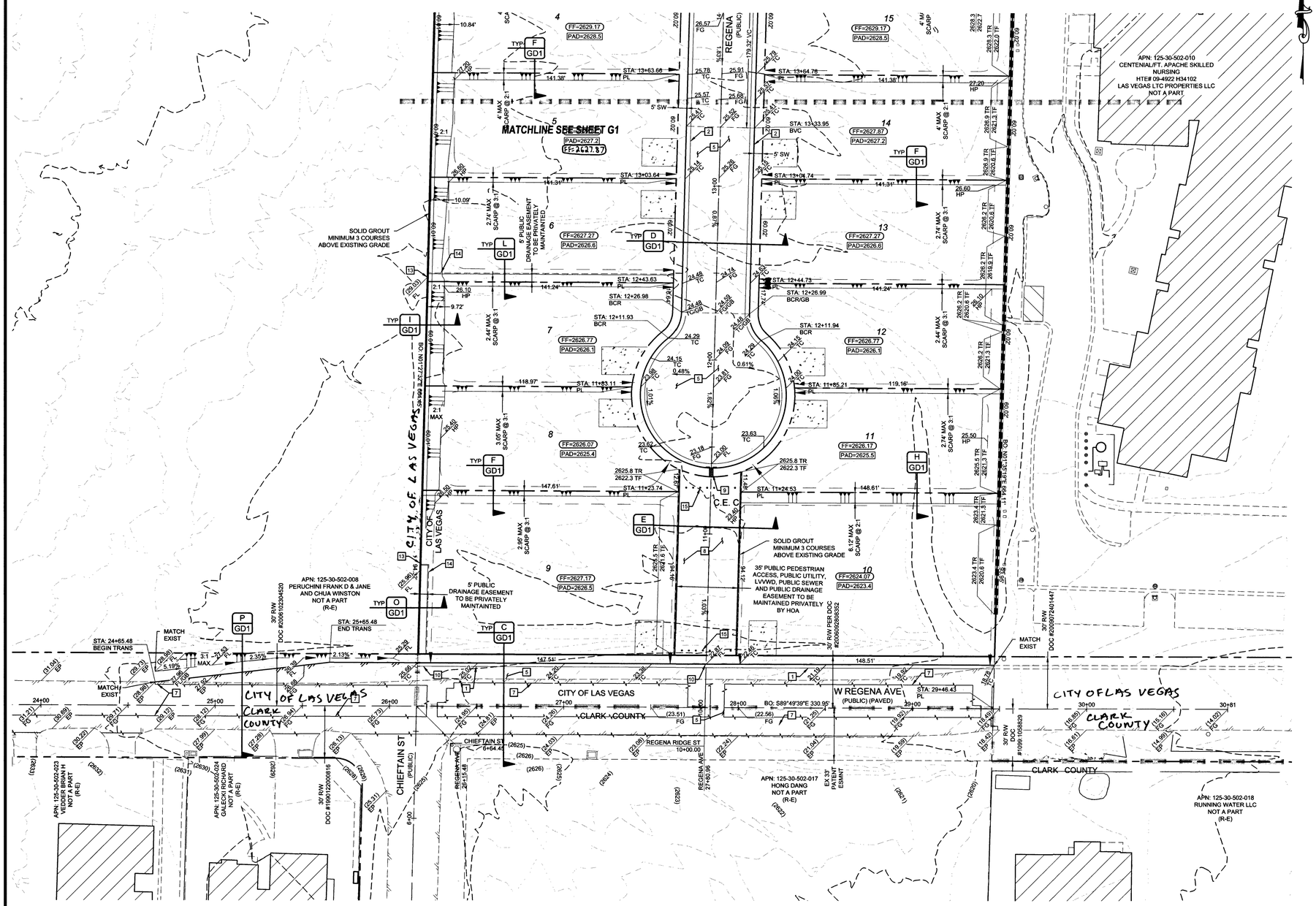
PROFESSIONAL ENGINEER - STATE OF NEVADA
S. JUSTIN THORNE
Exp. 06-30-20
CIVIL
No 22841
1/9/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	G1
SHEET NUMBER:	04 OF 20

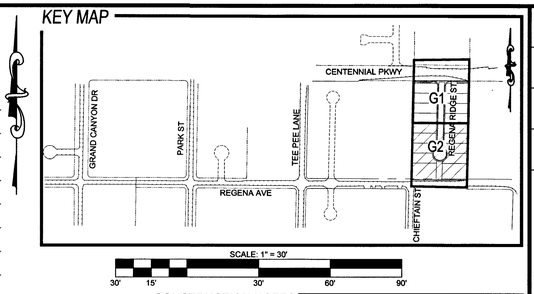
— PW18-18639
107Y5089 L18-02344

PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIP\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_G.DWG



KEY MAP



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3. 8.0' CROSS GUTTER (USD #228)
4. 5.0' SIDEWALK (USD #234)
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GRADING NOTES

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ADD 2600 FEET TO ALL GRADE TAGS TO GET ACTUAL ELEVATION.

THE ELEVATION DIFFERENCE BETWEEN THE PAD AND FINISH FLOOR IS DETERMINED FROM THE MINIMUM THICKNESS REQUIRED PER THE GEOTECHNICAL REPORT. FINISH FLOORS MAY INCREASE DEPENDING ON THE TYPE OF SOIL AND FOUNDATION PLAN USED. NOTE THAT THE STRUCTURAL PLANS & GEOTECHNICAL REPORT SHALL SUPERSEDE THE CIVIL IMPROVEMENT PLANS.

ALL PRIVATE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION (H.O.A.).

ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO THE GOVERNING ENTITY.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES AND NOTIFY THE DESIGN ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

GRADING CERTIFICATION - CLV, CC

I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, DS4994, ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT.
I CERTIFY THIS GRADING PLAN COMPLIES WITH THE APPROVED DRAINAGE STUDY, PW18-17756, ON FILE WITH CLARK COUNTY FOR THIS PROJECT.

S JUSTIN THORNE, PE — DATE 1/9/19

CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY [signature] 3/25/19 DATE

ACCEPTANCE OF THESE PLANS FOR FILING SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS AND/OR SPECIFICATIONS. CLARK COUNTY SHALL BE HELD FREE FROM DAMAGES WHICH MAY RESULT FROM THE CONSTRUCTION OF THE IMPROVEMENTS FROM THE ENGINEERING DESIGN DEPICTED HEREIN.

NOTE: POWER POLES AND/OR OTHER EXISTING FACILITIES NOT IN PROPER LOCATION BASED ON PROPOSED IMPROVEMENTS SHOWN HEREON WILL BE RELOCATED AT NO EXPENSE TO CLARK COUNTY.

APPROVED FOR CONSTRUCTION
[signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 3-14-19
LVVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

ACCEPTANCE OF PLANS
[signature] 1-10-19
SOUTHWEST GAS CORPORATION — DATE

ACCEPTANCE OF PLANS FOR FILING
BY: _____
DEVELOPMENT AND FLOOD CONTROL — DATE

GEOTECHNICAL
AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO: 1916-GEO
DATE: 03/02/18

Avoid overhead power line contact. It's costly.
Call before you Overhead
1-702-227-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-227-2600

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-5588 FAX:

TAMEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-2844 FAX: (702) 362-5333

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
GRADING PLAN 2

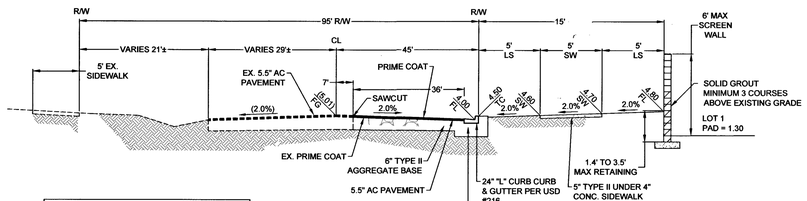
S. JUSTIN THORNE Exp. 06-30-20 CIVIL No. 22841 — 1/9/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	G2
SHEET NUMBER:	05 OF 20

— PW18-18639
107Y5089 L18-02344

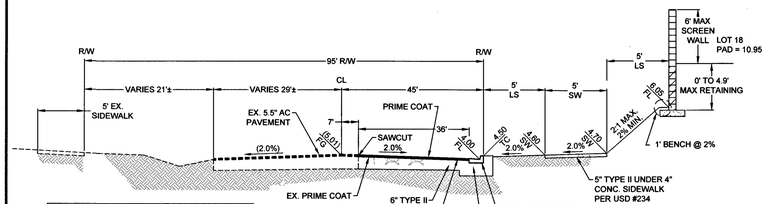
PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIN\PS\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_G.DWG



NOTE:
ALL AGGREGATE BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT PW18-18640. PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTION RECOMMENDATION REPORT PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO THE IMPROVEMENT PLANS WILL BE REQUIRED.

SECTION A
95' R/W CENTENNIAL AVE (PUBLIC)
NTS



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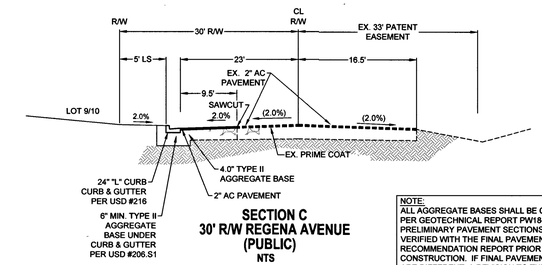
SECTION B
95' R/W CENTENNIAL AVE (PUBLIC)
NTS



SECTION C
30' R/W REGENA AVENUE (PUBLIC)
NTS

NOTE:
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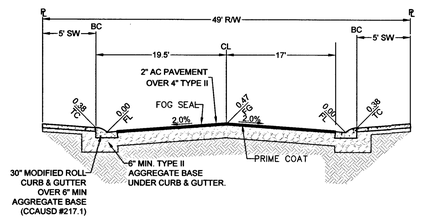

SECTION D
PUBLIC STREET TYPICAL 39-FT WIDE
NTS

NOTE:
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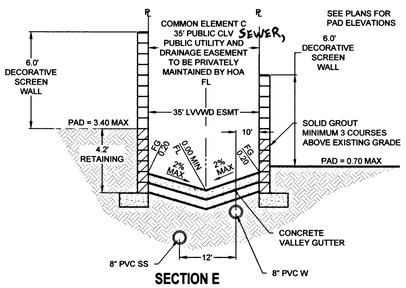
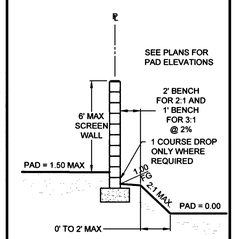
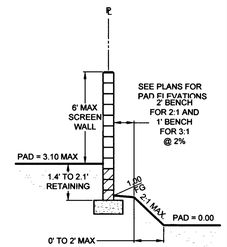


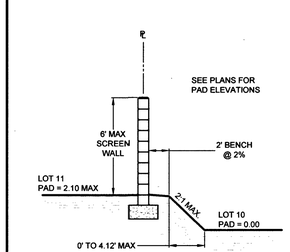
SECTION E
35' PUBLIC DRAINAGE EASEMENT & LVVWD EASEMENT
NTS



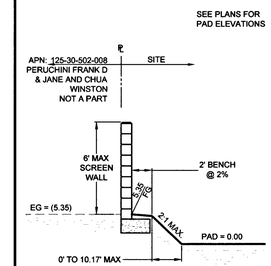
SECTION F
SIDE/SIDE & REAR/SIDE YARDS
NTS



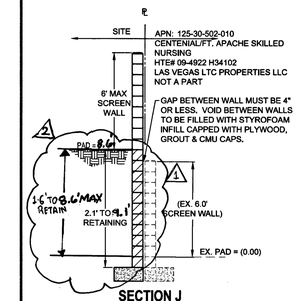
SECTION G
SIDE/SIDE YARDS
NTS



SECTION H
REAR/SIDE YARD
NTS

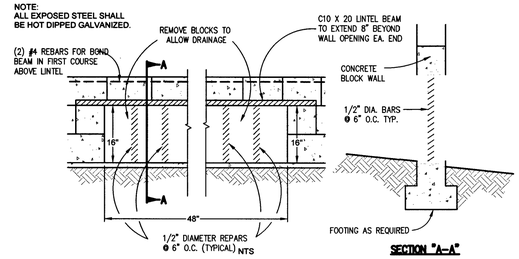


SECTION I
WEST PERIMETER WALL
NTS

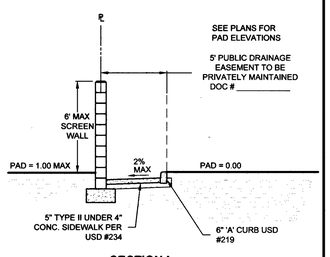


SECTION J
EAST PERIMETER WALL
NTS

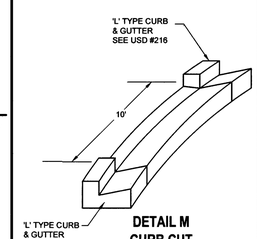
NOTE:
ALL EXPOSED STEEL SHALL BE HOT DIPPED GALVANIZED.



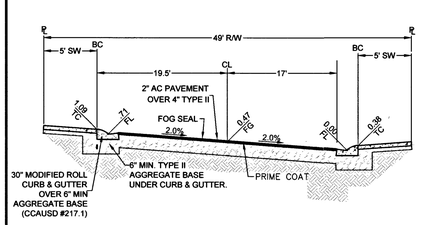
DETAIL K
48" X 16" BLOCK WALL OPENING
NTS



SECTION L
SIDE/SIDE & REAR/SIDE YARDS
NTS



DETAIL M
CURB CUT
NTS



SECTION N
PUBLIC STREET CROSSFALL STREET
NTS

NOTE:
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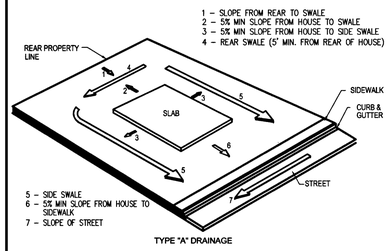
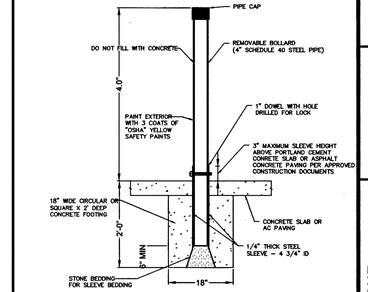
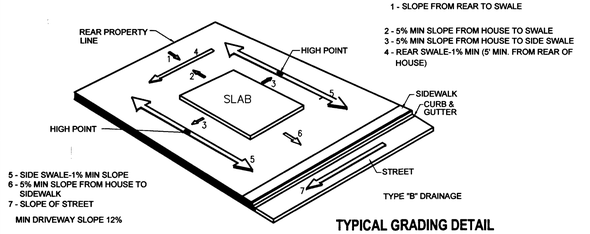


TYPICAL GRADING DETAIL
TYPE A
NTS

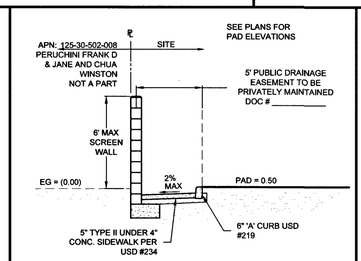


DETAIL R
REMOVABLE BOLLARD (DCSWCS SD-38)

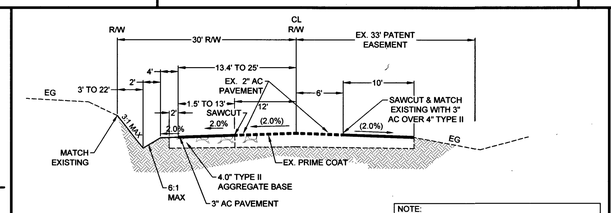


1 - SLOPE FROM REAR TO SWALE
2 - 5% MIN SLOPE FROM HOUSE TO SWALE
3 - 5% MIN SLOPE FROM HOUSE TO SIDE SWALE
4 - REAR SWALE-1% MIN (5' MIN. FROM REAR OF HOUSE)

TYPICAL GRADING DETAIL
TYPE B
NTS



SECTION O
WEST PERIMETER WALL
NTS



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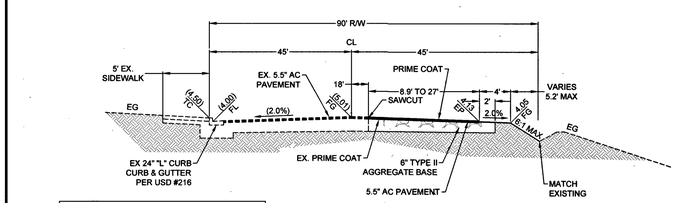
SECTION "P"
30' R/W REGENA AVENUE (PUBLIC)
NTS



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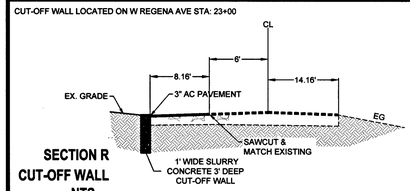
SECTION Q
90' R/W CENTENNIAL AVE (PUBLIC)
NTS

CUT-OFF WALL LOCATED ON W REGENA AVE STA: 23+00



SECTION R
CUT-OFF WALL
NTS

NOTE:
DECORATIVE BLOCK WALL WITH 20% CONTRASTING MATERIAL AND CAP.

PROFESSIONAL ENGINEER – STATE OF NEVADA
S. JUSTIN THORNE
Exp: 6/30/20
CIVIL
No. 22841
5/17/19
FOR REV ⊡ ONLY

PROFESSIONAL ENGINEER – STATE OF NEVADA
S. JUSTIN THORNE
Exp: 6/30/20
CIVIL
No. 22841
5/29/19
FOR REV △ ONLY

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 5-10-19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

NO.	DESCRIPTION	BY	SHTS	APPR.	DATE
△	REVISION TO RETAINING TO KEEP RETAINING BELOW 6 FEET. MOVED WALL TO BE AT THE B.C. ADDED SHEETS.	SJT	06		6/17/19
△	REVISION TO RETAINING & WALL TO MATCH PRO EXC	SJT			6/20/19

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8588 FAX:

TAMEY ENGINEERING
8030 S. JONES BLVD
LAS VEGAS, NV 89139
(702) 362-8844 FAX: (702) 362-5233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION

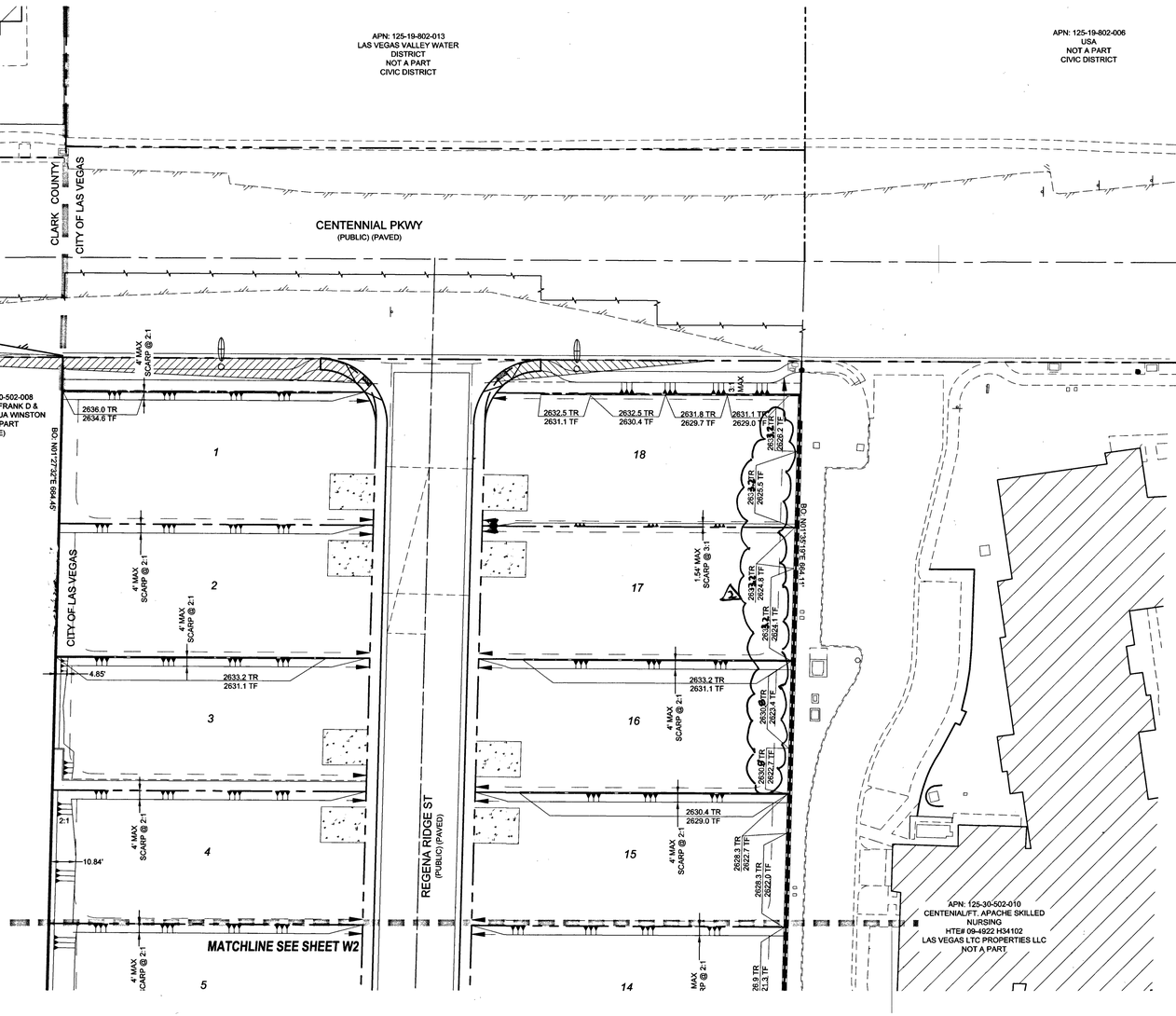
GRADING DETAILS

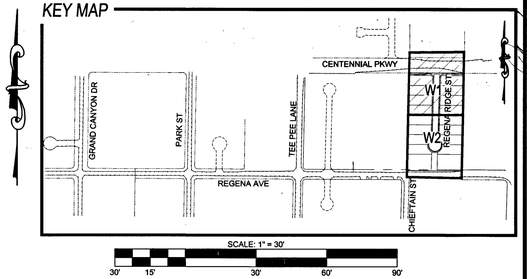
PROFESSIONAL ENGINEER – STATE OF NEVADA
S. JUSTIN THORNE
Exp. 06-30-20
CIVIL
No. 22841
5/29/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	GD1
SHEET NUMBER:	06 OF 20
—	PW18-18639
107Y5089	L18-02344

PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIP\SPRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_DET.DWG





NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
1	REVISION TO RETAINING WALL TO MATCH PAD ELEV	SJT	7		7/17/19

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-6588 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-6233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
—
WALL PLAN 1

REGISTERED PROFESSIONAL ENGINEER S. JUSTIN THORNE Exp. 06-30-20 CIVIL No. 22841 STATE OF NEVADA
1/9/19

FOR REV 1 ONLY 7/17/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	W1
SHEET NUMBER:	07 OF 20
—	PW18-18639
107Y5089	L18-02344

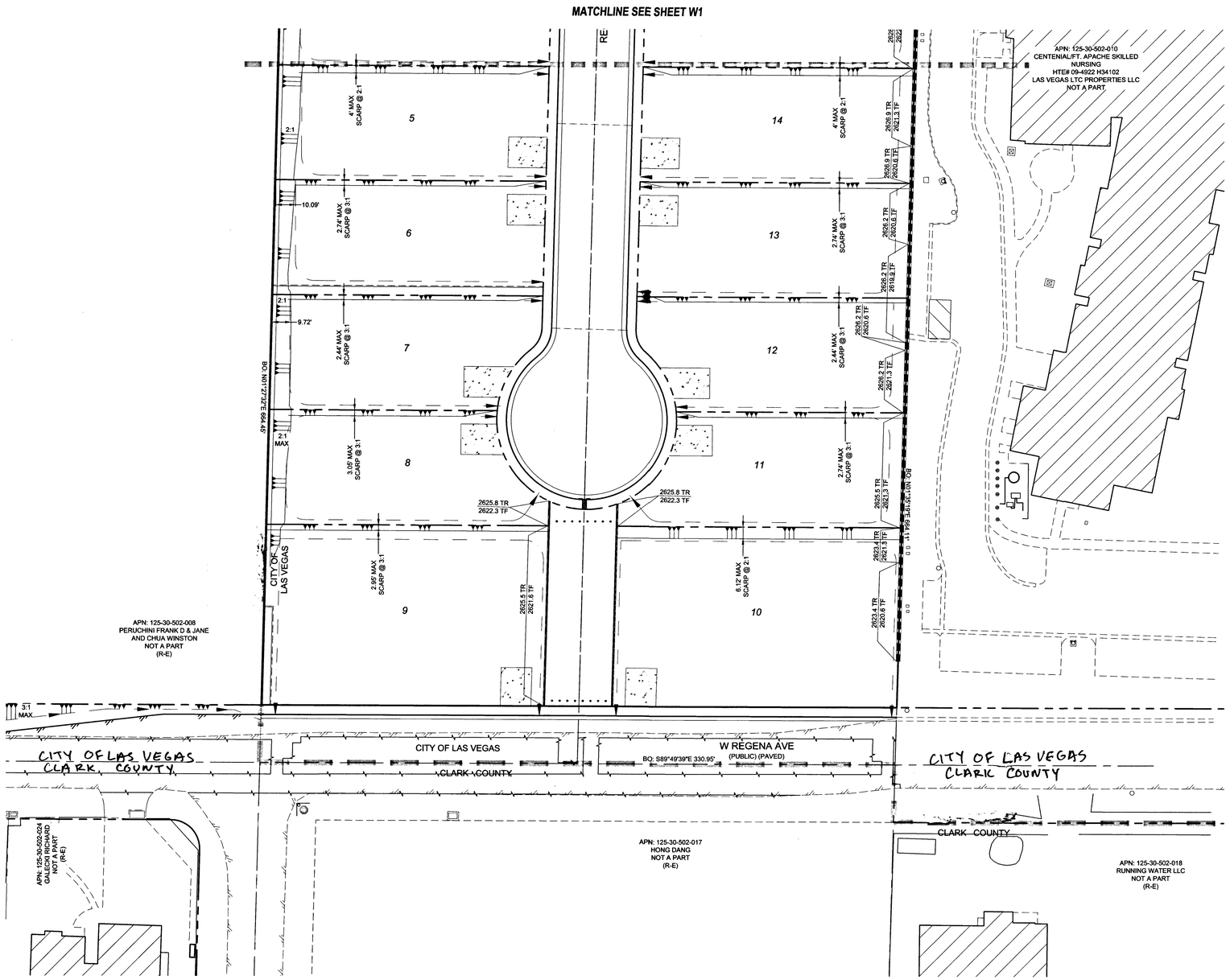
GEOTECHNICAL
AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

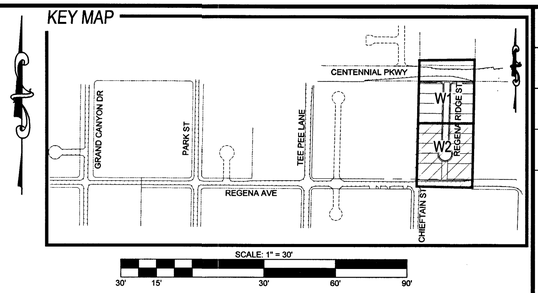
REPORT NO: 1916-GEO
DATE: 03/02/18

Avoid overhead power line contact. It's costly.
Call before you Overhead
1-702-227-2929

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-227-2600

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENG\P\SP\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_WALL.DWG





NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-5388 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-0233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION

—

WALL PLAN 2

PROFESSIONAL ENGINEER
SJUSTIN THORNE
Exp. 06-30-20
CIVIL
No. 22841
STATE OF NEVADA
1/9/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	W2
SHEET NUMBER:	08 OF 20
—	PW18-18639
107Y5089	L18-02344

GEOTECHNICAL
AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO: 1916-GEO
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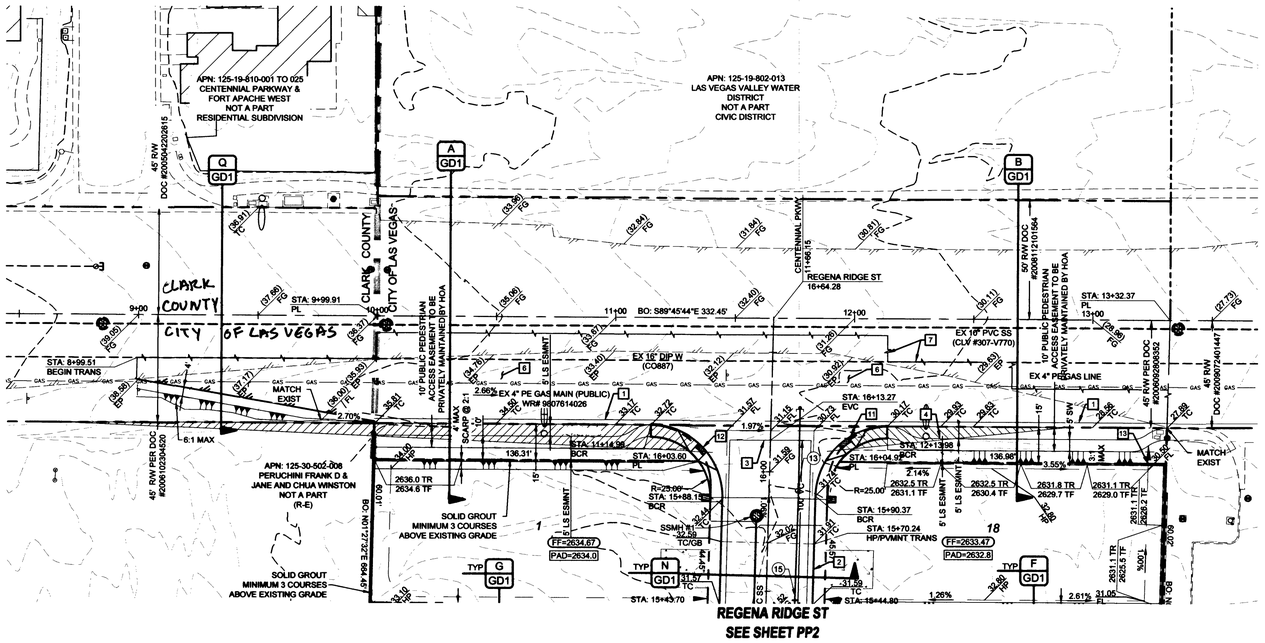
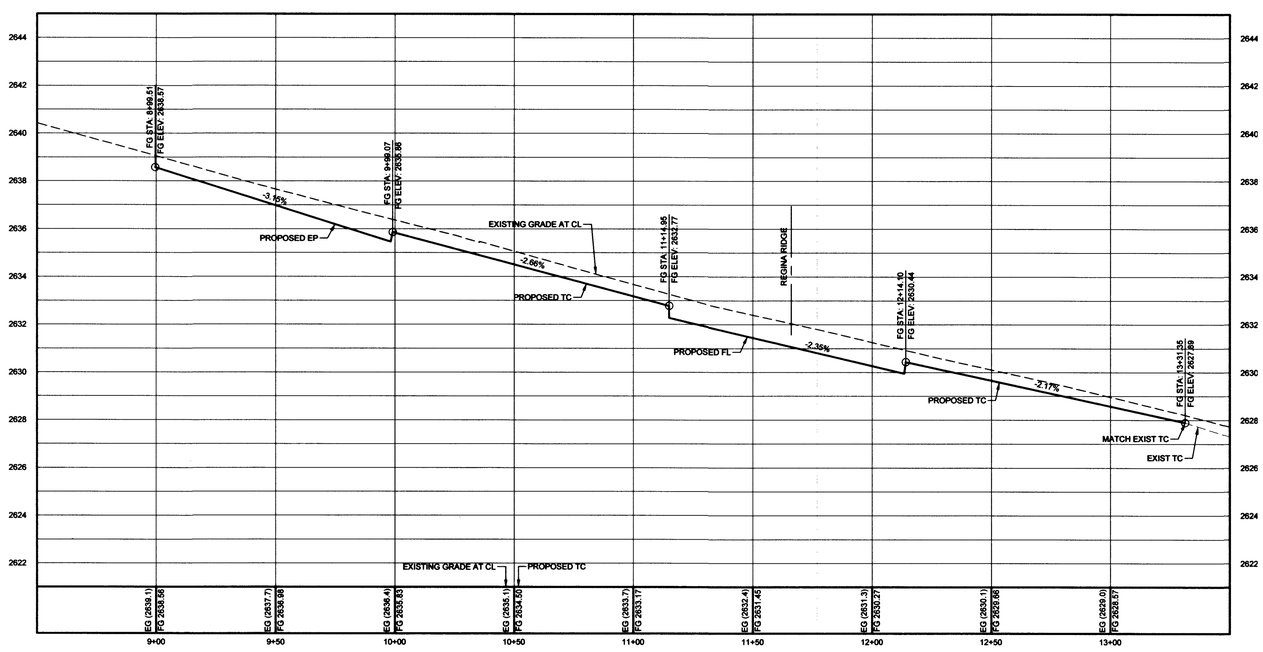


CENTENNIAL PKWY (PUBLIC) - PLAN



CENTENNIAL PKWY (PUBLIC) - PROFILE

SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

NOTE:
INSTALL PIPELINE MARKET BALLS, PER UDACS PLATE NO. 15

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

ACCEPTANCE OF PLANS
SOUTHWEST GAS CORPORATION — DATE 1-10-19

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

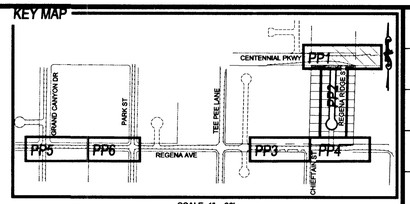
Call before you Dig
Avoid cutting underground utility lines. it's costly.
CALL 811 OR 1-800-227-2600

Avoid overhead power line contact. it's costly.
Call before you Overhead
1-702-227-2929

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 3-6-19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

ACCEPTANCE OF PLANS FOR FILING
BY: _____
DEVELOPMENT AND FLOOD CONTROL — DATE

KEY MAP



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY _____ DATE

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CONSTRUCTION NOTES

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3. 8.0' CROSS GUTTER (USD #228)
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8. INSTALL CONCRETE VALLEY GUTTER (SEE E/GD1)
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13. INSTALL 8" GV PER UDACS PLT 30
14. INSTALL 10" X 8" REDUCER

GEOTECHNICAL

AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO: 1916-GEO
DATE: 03/02/18

UTILITY DISCLAIMER

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LINE AND CURVE DATA

FOR LINE AND CURVE DATA TABLES, SEE THE GRADING PLAN SHEETS FOR THIS PROJECT.

PROFILE NOTES

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BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C90195ES
ELEVATION (FEET): 2618.96 (798.258 METERS)

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
	REVISIONS				

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 304-5588 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-6233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION

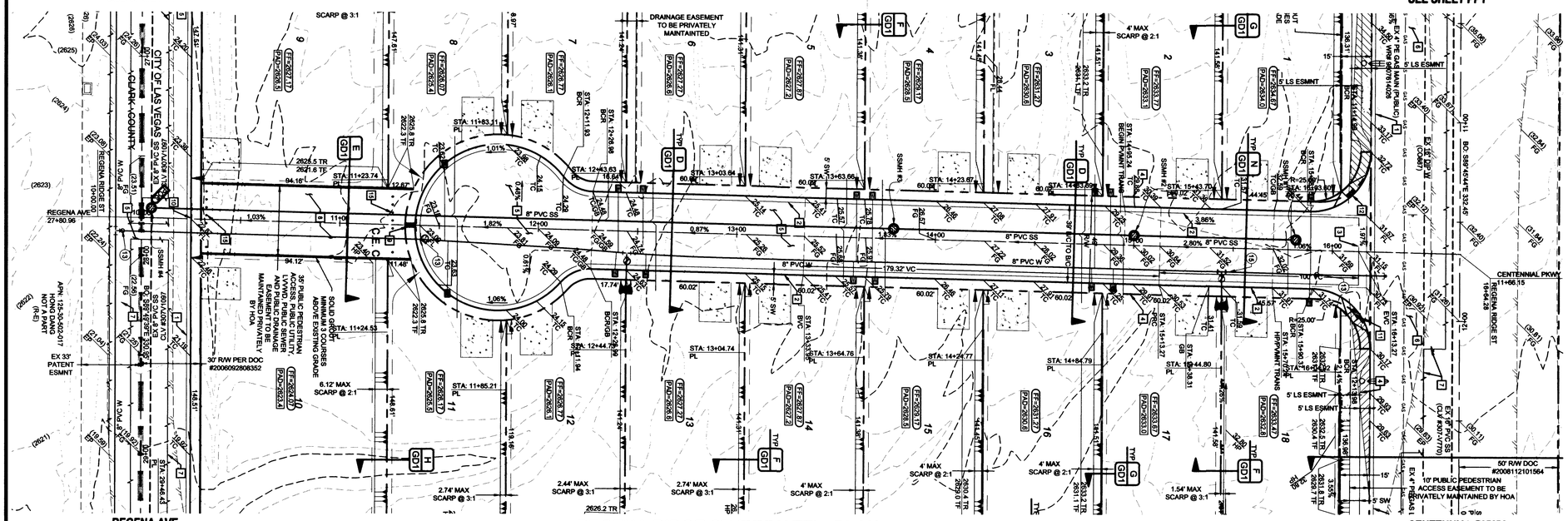
PLAN & PROFILE 1
CENTENNIAL PKWY

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA
S. JUSTIN THORNE
Exp. 06-30-20
CIVIL
22841
1/9/19

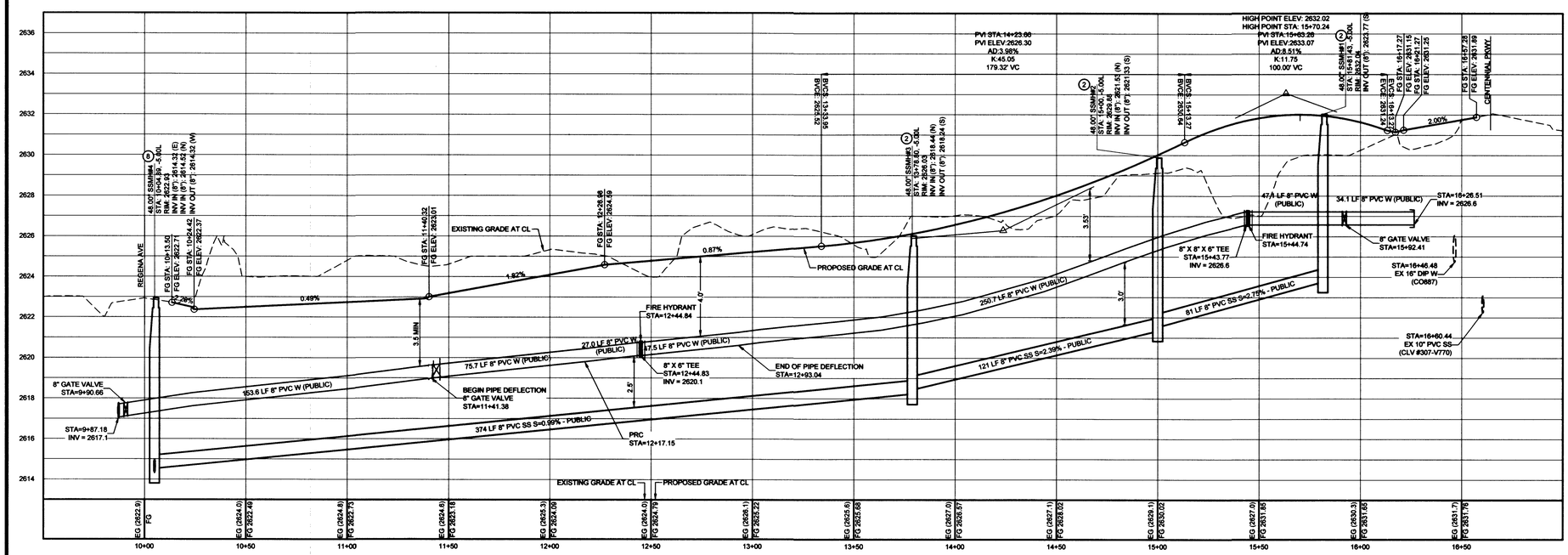
DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	PP1
SHEET NUMBER:	09 OF 20
—	PW18-18639
107Y5089	L18-02344

PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENG\IPS\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_PP.DWG



REGENA RIDGE ST (PRIVATE) - PLAN



REGENA RIDGE ST (PRIVATE) - PROFILE

SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

NOTE:
INSTALL PIPELINE MARKET BALLS, PER UDACS PLATE NO. 15

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

ACCEPTANCE OF PLANS

SOUTHWEST GAS CORPORATION — DATE 1-10-19

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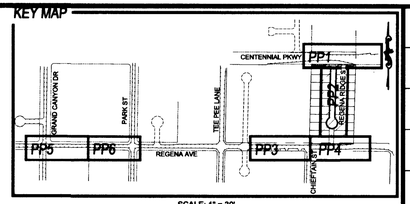
KEY MAP



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY [signature] 3/25/19
DATE

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GEOTECHNICAL

AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO: 1916-GEO
DATE: 03/02/18

UTILITY DISCLAIMER

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LINE AND CURVE DATA

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PROFILE NOTES

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BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C90195ES
ELEVATION (FEET): 2618.96 (798.258 METERS)

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 3-11-19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

ACCEPTANCE OF PLANS FOR FILING

BY: _____
DEVELOPMENT AND FLOOD CONTROL — DATE

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-6508 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-8233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION

PLAN & PROFILE 2
REGENA RIDGE ST

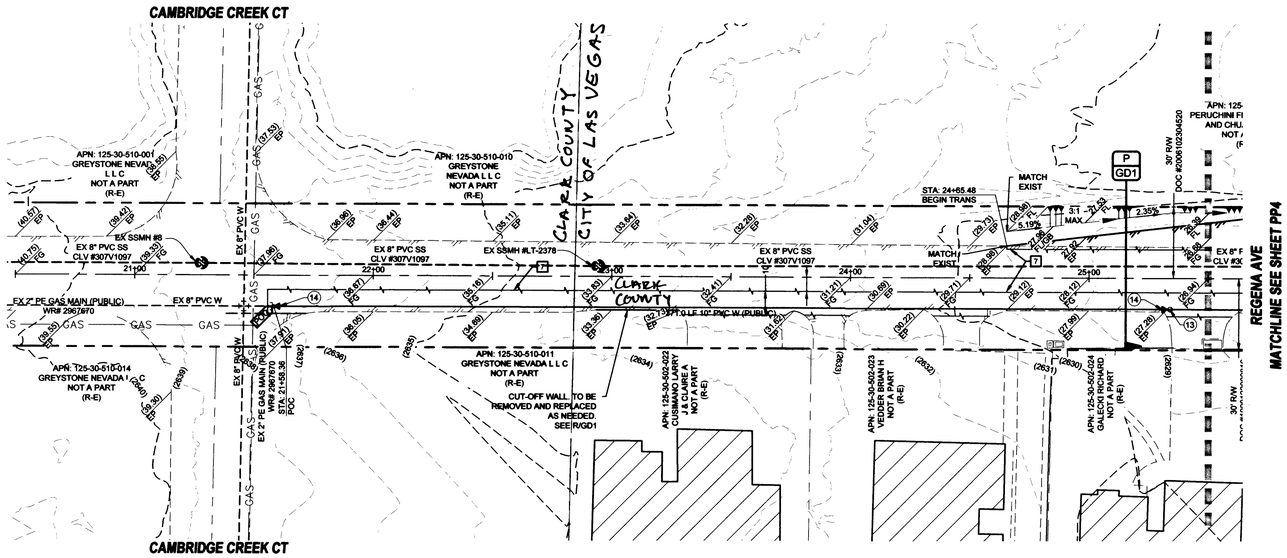
REGISTERED PROFESSIONAL ENGINEER
S. JUSTIN THORNE
Exp. 06-30-20
CIVIL
No. 22841
STATE OF NEVADA
1/9/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	PP2
SHEET NUMBER:	10 OF 20

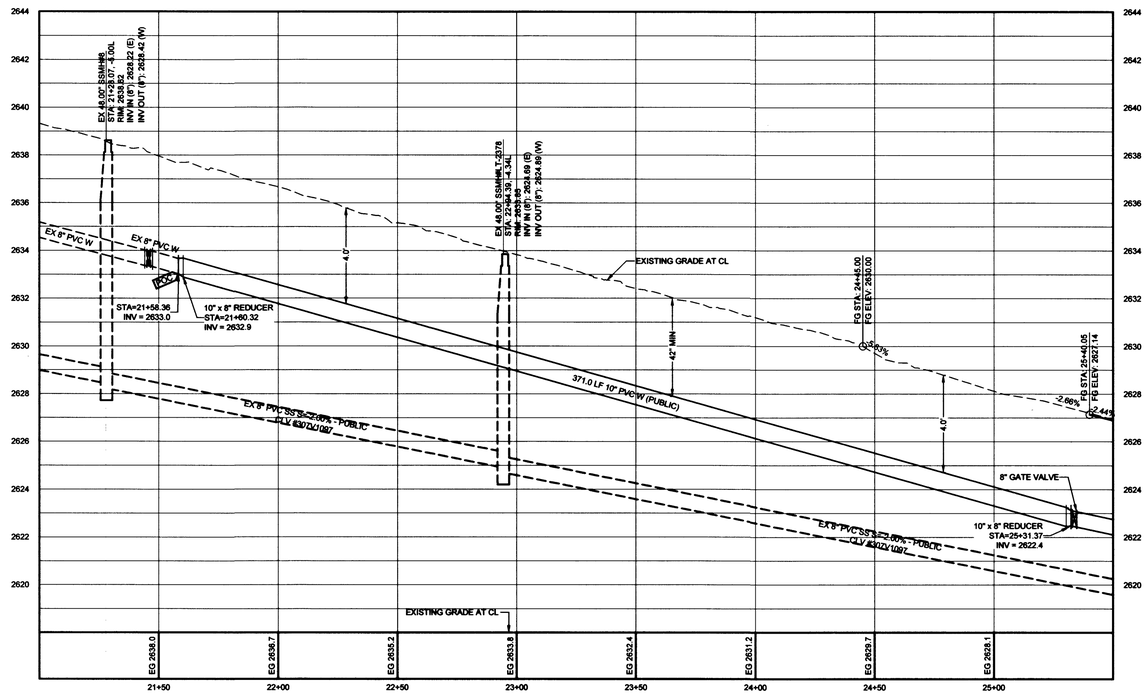
PW18-18639
107Y5089 L18-02344

PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENG\PS\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_PP.DWG



REGENA AVE (PUBLIC) - PLAN
STA: 21+00.00 TO 25+50.00



REGENA AVE (PUBLIC) - PROFILE
STA: 21+00.00 TO 25+50.00
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

NOTE:
INSTALL PIPELINE MARKET BALLS, PER UDACS PLATE NO. 15

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

ACCEPTANCE OF PLANS
Pamela Kennedy 1-10-19
SOUTHWEST GAS CORPORATION DATE

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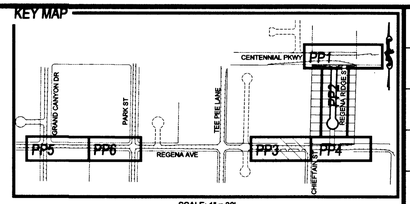
KEY MAP



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY Carl Hom 1/25/19
DATE

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GEOTECHNICAL
AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO: 1916-GEO
DATE: 03/02/18

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BENCHMARK
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ELEVATION (FEET): 2618.96 (798.258 METERS)

APPROVED FOR CONSTRUCTION
Shane Ocon
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 2-10-19
LVVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

ACCEPTANCE OF PLANS FOR FILING
BY:
DEVELOPMENT AND FLOOD CONTROL DATE

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8588 FAX:

TAMEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION

PLAN & PROFILE 3
REGENA AVE
STA: 21+00 TO 25+50

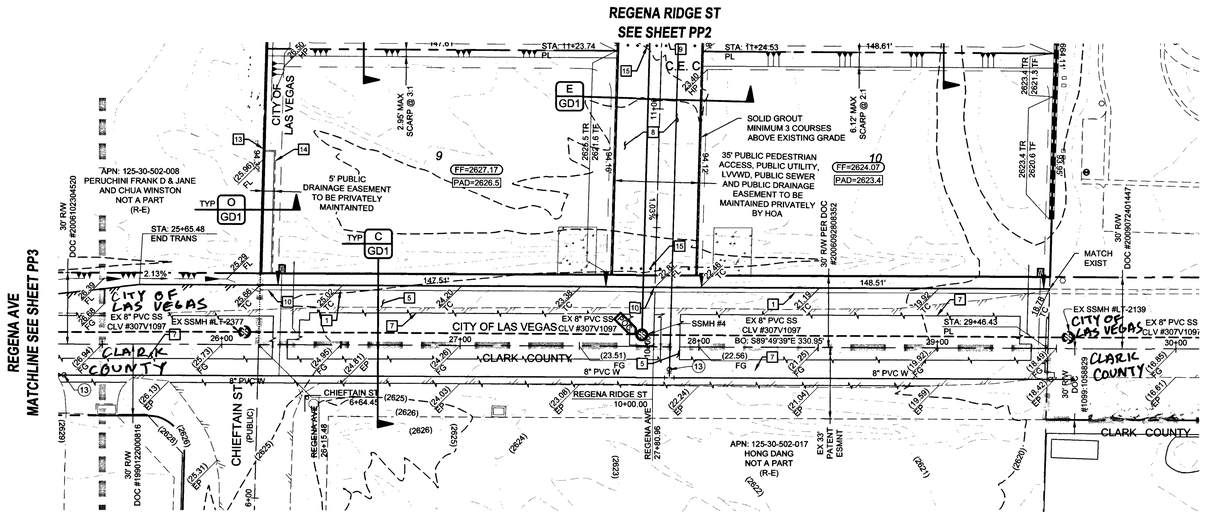
REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA
S. JUSTIN THORNE
Exp. 06-30-20
CIVIL
NO. 22841
1/9/19

DATE: 1/9/2019
SCALE: 1"=30'
JOB NO: ADV-17-086
DESIGNED BY: BP CHECKED BY: SJT
SHEET NAME: PP3
SHEET NUMBER: 11 OF 20

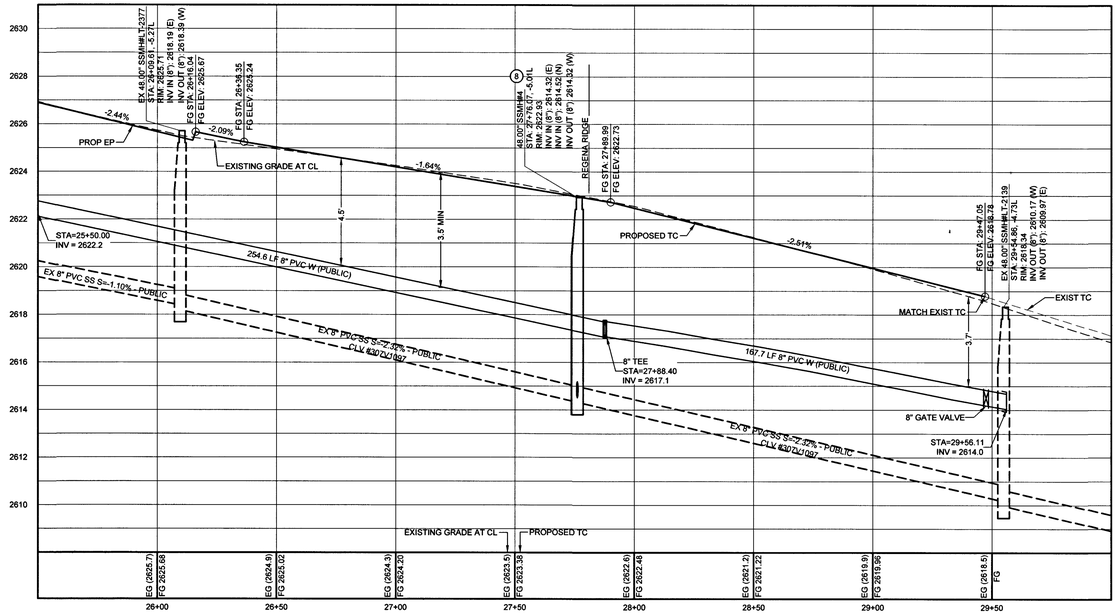
PW18-18639
107Y5089 L18-02344

PRO.#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENG\PS\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_PP.DWG



REGENA AVE (PUBLIC) - PLAN
STA: 24+50.00 TO 30+00.00



REGENA AVE (PUBLIC) - PROFILE
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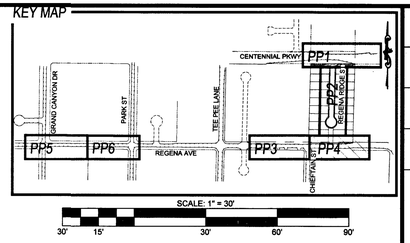
1-702-227-2929

KEY MAP



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY _____ DATE 3/25/19

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GEOTECHNICAL
AMERICAN SOILS ENGINEERING, LLC
6000 S. EASTERN AVE., SUITE 6B
LAS VEGAS, NV 89119
(702) 889-9617

REPORT NO: 1916-GEO
DATE: 03/02/18

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LINE AND CURVE DATA
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BENCHMARK
RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 2-10-20
LVVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

ACCEPTANCE OF PLANS FOR FILING
BY: _____ DEVELOPMENT AND FLOOD CONTROL DATE

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
	REVISIONS				

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 305-5588 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
PLAN & PROFILE 4
REGENA AVE
STA: 24+50 TO 30+00

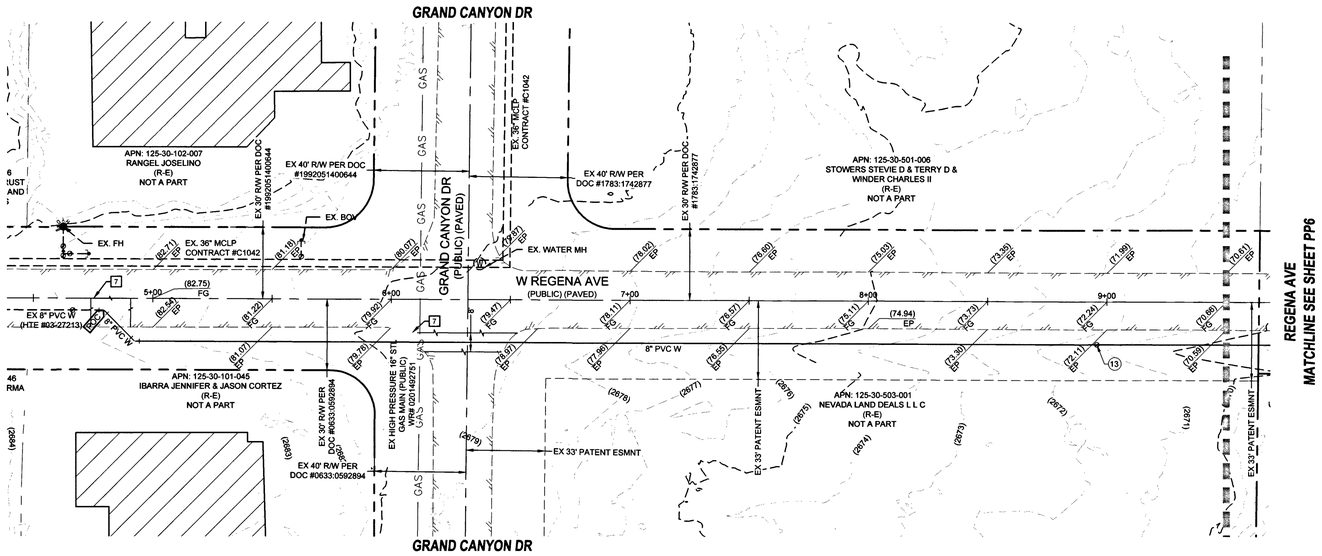
REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA
S. JUSTIN THORNE
Exp. 06-30-20
CIVIL
No. 23841
1/9/19

DATE: 1/9/2019
SCALE: 1"=30'
JOB NO: ADV-17-086
DESIGNED BY: BP
CHECKED BY: SJT
SHEET NAME: PP4
SHEET NUMBER: 12 OF 20

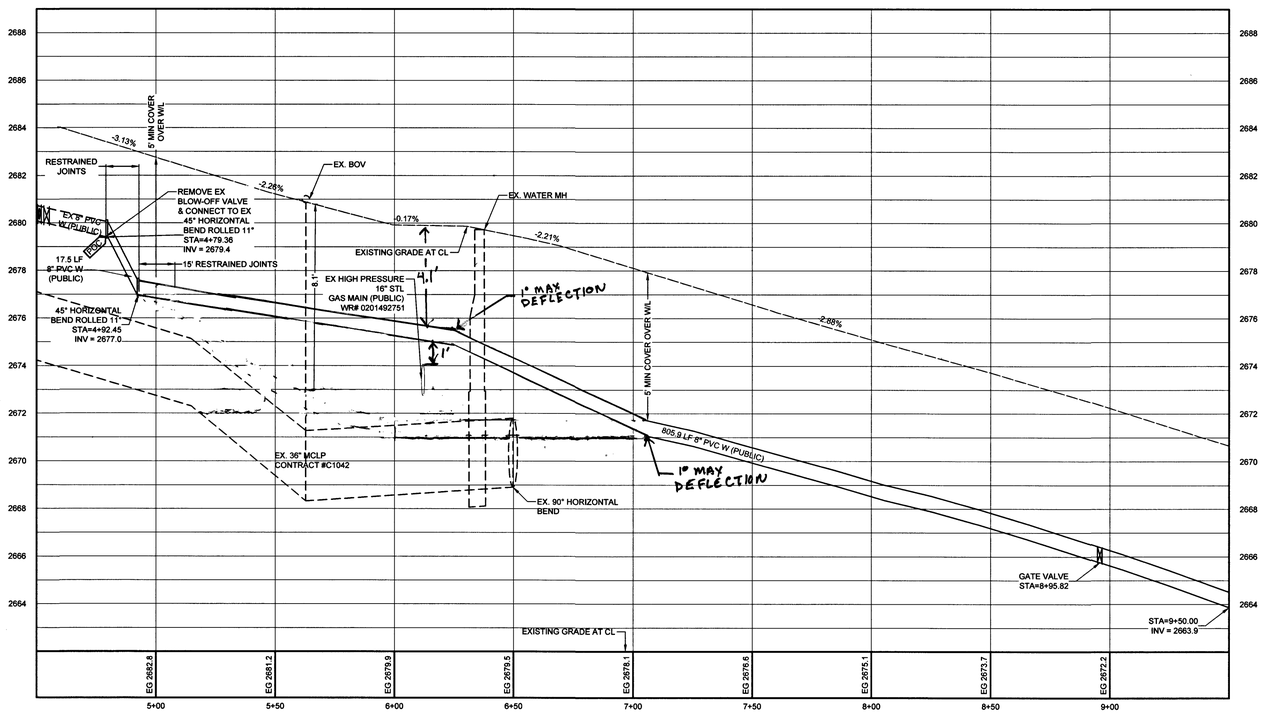
PW18-18639
107Y5089 L18-02344

PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIP\SPRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_PP.DWG



REGENA AVE (PUBLIC) - PLAN
STA: 4+50.00 TO 9+50.00



REGENA AVE (PUBLIC) - PROFILE
STA: 4+50.00 TO 9+50.00
SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

NOTE:
INSTALL PIPELINE MARKET BALLS, PER UDACS PLATE NO. 15

WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

ACCEPTANCE OF PLANS
Pamela Kennedy 1-10-19
SOUTHWEST GAS CORPORATION DATE

DEPTH OF COVER DURING CONSTRUCTION
MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

CAUTION: HIGH PRESSURE GAS!!

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APPROVED FOR CONSTRUCTION
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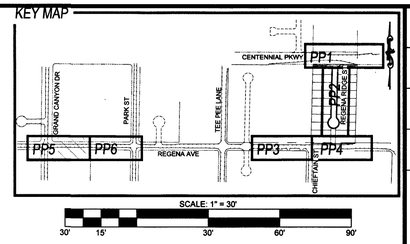
PROJECT# 135691 FIRST APPROVED DATE 2-6-19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

ACCEPTANCE OF PLANS FOR FILING
BY:
DEVELOPMENT AND FLOOD CONTROL DATE

KEY MAP



CLARK COUNTY
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DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING
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REPORT NO: 1916-GEO
DATE: 03/02/18

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NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
	REVISIONS				

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8588 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-6233

EST. 2000

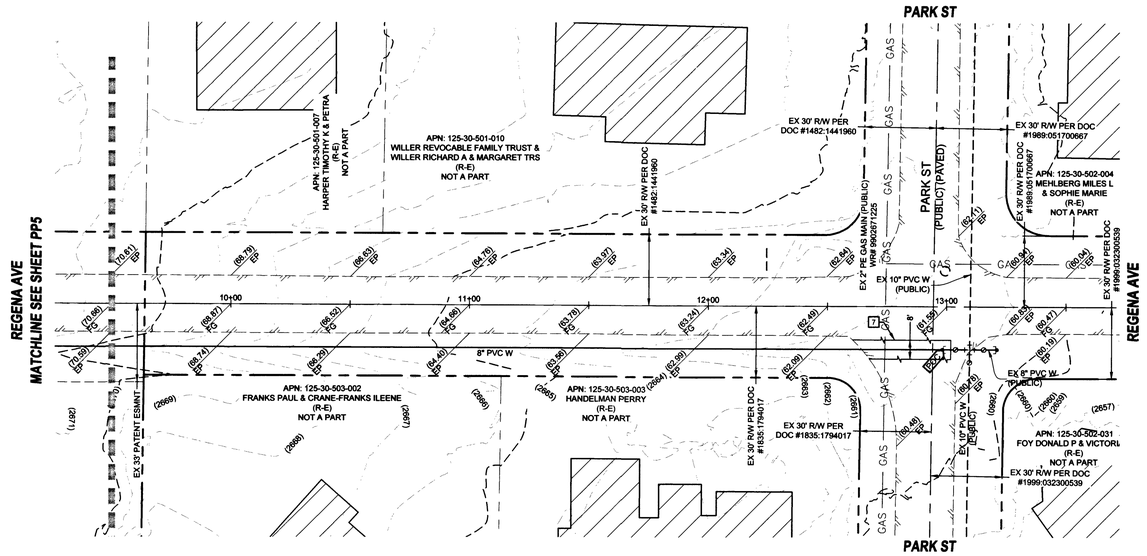
CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
PLAN & PROFILE 5
REGENA AVE
STA: 4+50 TO 9+50

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA — S. JUSTIN THORNE — Exp. 06-30-20 — CIVIL — No. 22841 — 1/9/19

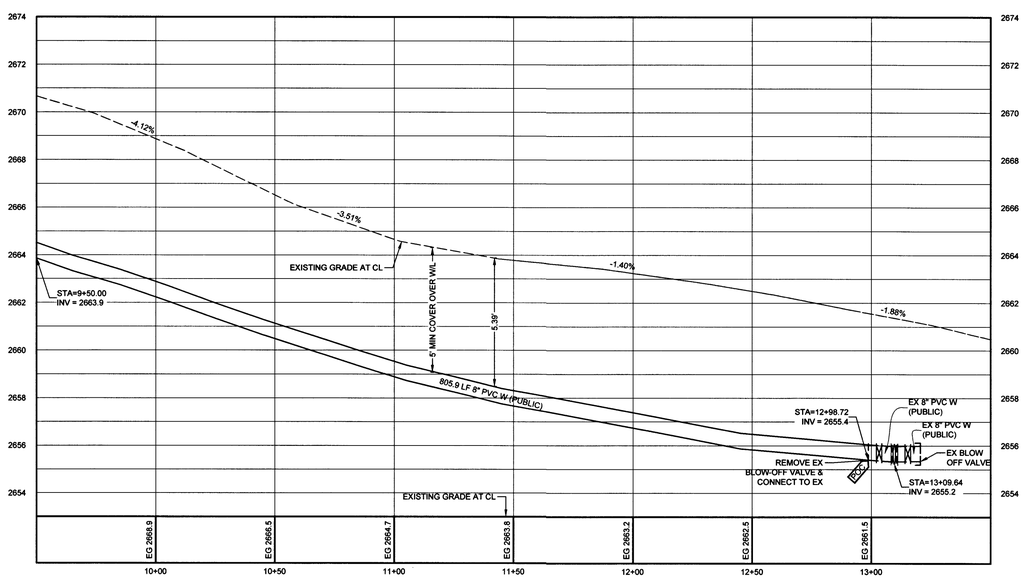
DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	PP5
SHEET NUMBER:	13 OF 20
—	PW18-18639
107Y5089	L18-02344

PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIP\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_PP.DWG



REGENA AVE (PUBLIC) - PLAN
STA: 9+50 TO 13+00



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SCALE: 1"=30' HORIZONTAL; 1"=3' VERTICAL

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WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03

ACCEPTANCE OF PLANS
SOUTHWEST GAS CORPORATION — DATE 1·10·19

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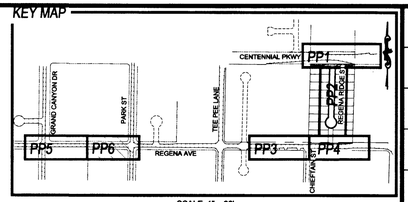
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 3-8-19
LVVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

ACCEPTANCE OF PLANS FOR FILING
BY:
DEVELOPMENT AND FLOOD CONTROL — DATE

KEY MAP



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING

BY Carl Hun 3/25/19 DATE

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LAS VEGAS, NV 89119
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3425 CLIFF SHADOWS PKWY
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TANEY ENGINEERING
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LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
PLAN & PROFILE 6
REGENA AVE
STA: 9+50 TO 13+00

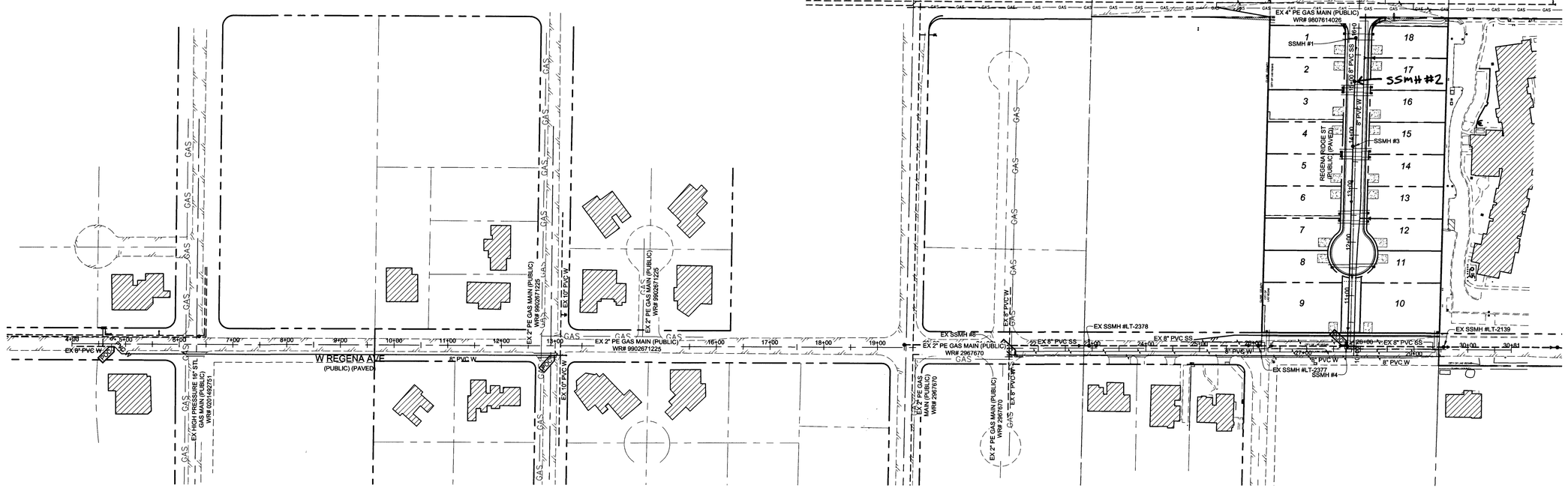
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA
S. JUSTIN THORNE
Exp. 06-30-20
CIVIL
No. 22841
1/9/19

DATE: 1/9/2019
SCALE: 1"=30'
JOB NO: ADV-17-086
DESIGNED BY: BP CHECKED BY: SJT
SHEET NAME: PP6
SHEET NUMBER: 14 OF 20

PW18-18639
107Y5089 L18-02344

PRO.#:135691A QS:125-30-NE

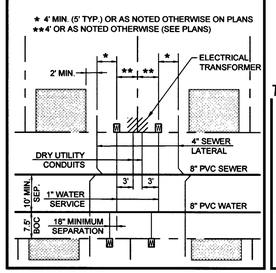
FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENG\IPS\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_PP.DWG



TYPICAL LATERAL LAYOUT N.T.S

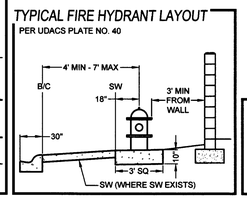
FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)

* 4' MIN. (5' TYP.) OR AS NOTED OTHERWISE ON PLANS
** 4' OR AS NOTED OTHERWISE (SEE PLANS)



TYPICAL FIRE HYDRANT LAYOUT

PER UDACS PLATE NO. 40



FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,000 GPM @ 20 PSI RESIDUAL.

BASED ON:
SQUARE FOOTAGE: 6,200 SQUARE FEET
NUMBER OF STORIES / FLOORS: 2
AUTOMATIC FIRE SPRINKLER SYSTEM: ☐ YES ☒ NO
ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 0 GPM

IF THE ANTICIPATED FIRE FLOW IS INSUFFICIENT, AND HOMES EXCEED THE DECLARED SQUARE FOOTAGE NOTED ABOVE, A NFPA 13D SPRINKLER SYSTEM SHALL BE REQUIRED.

OF HYDRANTS PROVIDED: 2

WATER MAIN JOINT DEFLECTION NOTE (PVC 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MAXIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

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

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BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
7. ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT 15.)
9. 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

Call before you Dig
Avoid cutting underground utility lines, it's costly.
CALL 811 OR 1-800-227-2600

Avoid overhead power line contact, it's costly.
Call before you Overhead
1-702-227-2929

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 2-11-19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

ACCEPTANCE OF PLANS
SOUTHWEST GAS CORPORATION 1-10-19 DATE

APPROVED FOR CONSTRUCTION
CITY OF LAS VEGAS FIRE DEPARTMENT 1/16/19 DATE
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-5588 FAX:

TAMEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
— MASTER UTILITY PLAN

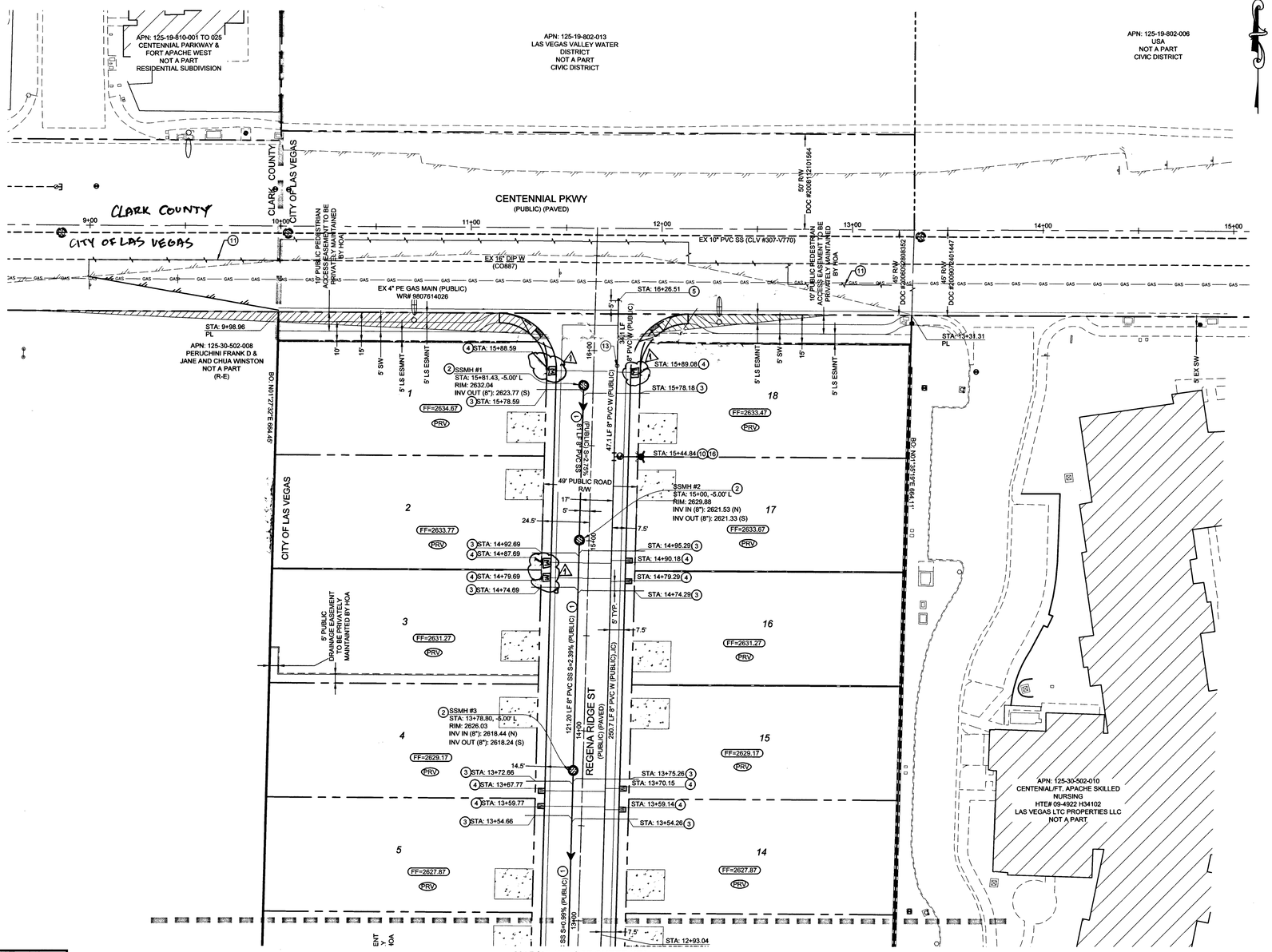
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA
S. JUSTIN THORNE
Exp. 06-30-20
CIVIL
No. 22841
1/9/19

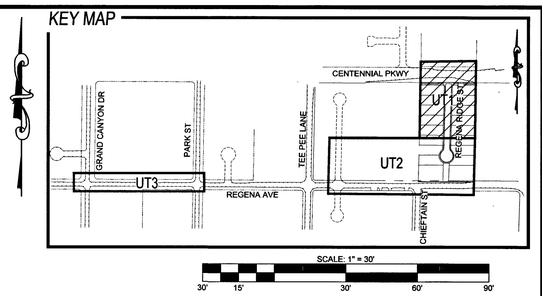
DATE:	1/9/2019
SCALE:	1"=100'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	MUT
SHEET NUMBER:	15 OF 20

— PW18-18639
107Y5089 L18-02344

PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGI\PS\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_MUT.DWG





CONSTRUCTION NOTES

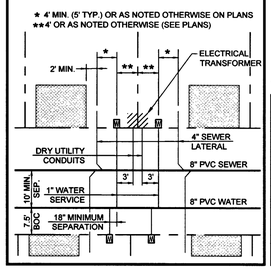
1. INSTALL 8" PVC SS (DCSWCS SD-17)
2. INSTALL 48" STANDARD MANHOLE W/ SINGLE 24" LID (DCSWCS SD-1A, SD-1B, & SD-4)
3. 4" SEWER LATERAL W/ MARKER BALL & CURB MARKING (DCSWCS SD-22)
4. 1" WATER SERVICE W/ 3/4" METER (UDACS PLATE NO. 1)
5. CAP AND 2" BLOW-OFF ASSEMBLY (UDACS PLATE NO. 36)
6. INSTALL 8" X 8" WATER TEE (UDACS PLT. 31)
7. REMOVE EX BLOW-OFF VALVE AND CONNECT TO EX WATERLINE
8. INSTALL 48" MANHOLE W/ CAST-IN-PLACE MANHOLE BASE (DCSWCS SD-7)
9. INSTALL 45° HORIZONTAL BEND ROLLED 11" (UDACS PLT. 31)
10. INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40)
11. SAWCUT & MATCH INTO EXISTING AC PAVEMENT (CCAUSD #500.3, 500.4, 500.5 & 503)
12. NOT USED
13. INSTALL 8" GV PER UDACS PLT 30
14. INSTALL 10" X 8" REDUCER
15. NOT USED
16. INSTALL 8" X 6" TEE PER UDACS PLT. 31

PRV NOTES

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

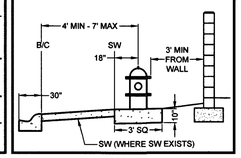
TYPICAL LATERAL LAYOUT N.T.S

FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)



TYPICAL FIRE HYDRANT LAYOUT

PER UDACS PLATE NO. 40



FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,000 GPM @ 20 PSI RESIDUAL.

BASED ON:
SQUARE FOOTAGE: 6,200 SQUARE FEET
NUMBER OF STORIES / FLOORS: 2
AUTOMATIC FIRE SPRINKLER SYSTEM: ☐YES ☒ NO
ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 0 GPM

IF THE ANTICIPATED FIRE FLOW IS INSUFFICIENT, AND HOMES EXCEED THE DECLARED SQUARE FOOTAGE NOTED ABOVE, A NFPA 13D SPRINKLER SYSTEM SHALL BE REQUIRED.

OF HYDRANTS PROVIDED: 2

Call before you Dig
Avoid cutting underground utility lines. it's costly.
CALL 811 OR 1-800-227-2600

Avoid overhead power line contact. it's costly.
Call before you Overhead
1-702-227-2929

UTILITY DISCLAIMER

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BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
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9. 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

REVISED PER REVISIONS TO KEEP RETAINING BELOW 6 FEET, MOVED WM TO THE BIG, ADDED SWG SHEETS. SJT 1.6 6/17/19

NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
	REVISIONS				

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8588 FAX:

TAMEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
UTILITY PLAN 1

REGISTERED PROFESSIONAL ENGINEER JUSTIN THORNE Exp. 06-30-20 CIVIL No. 22841 STATE OF NEVADA
6/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	UT1
SHEET NUMBER:	16 OF 20

PW18-18639
107Y5089 L18-02344

ACCEPTANCE OF PLANS
Pamela Kennedy 1·10·19
SOUTHWEST GAS CORPORATION DATE

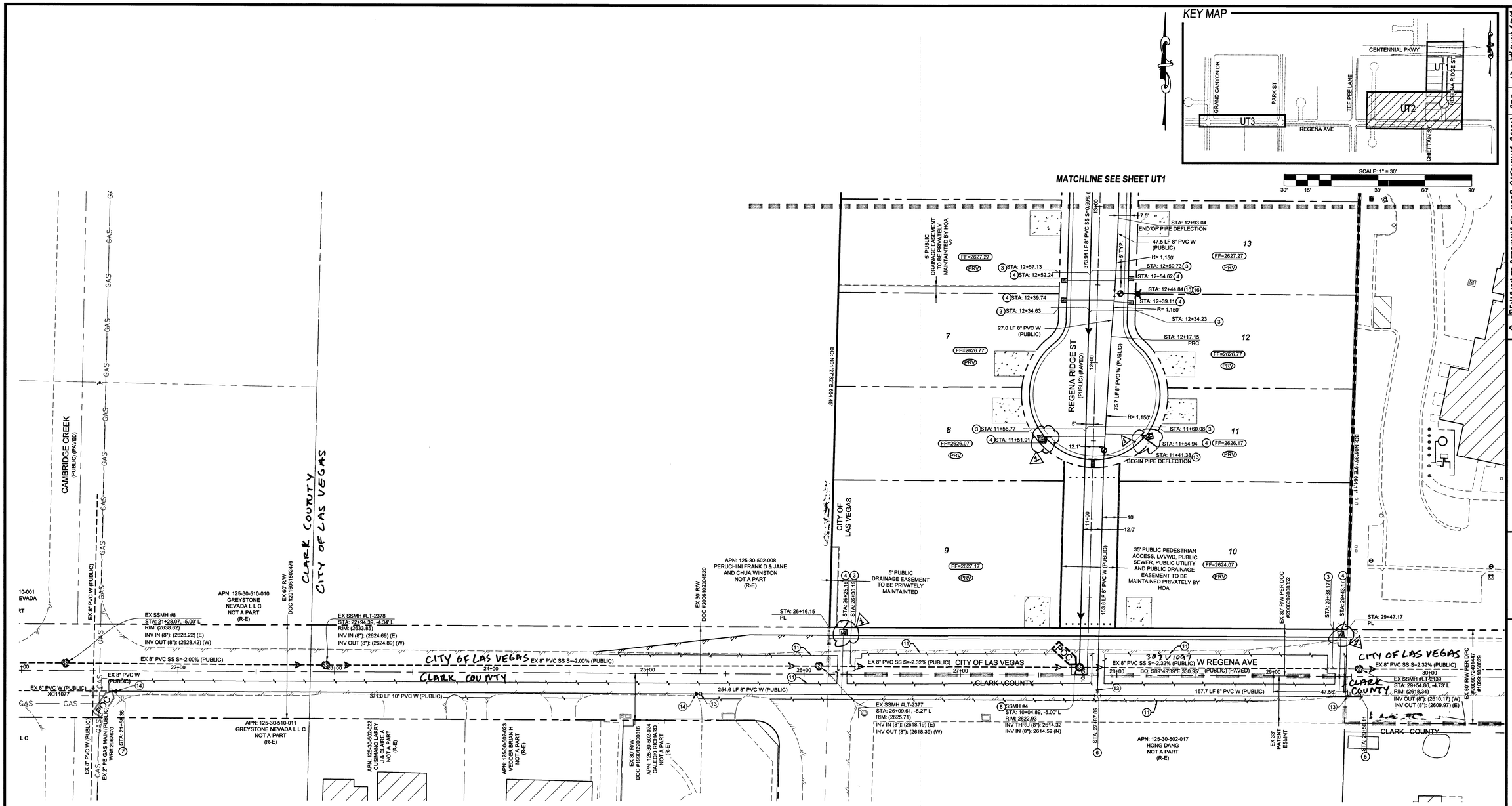
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 3-6-19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

APPROVED FOR CONSTRUCTION
1/10/19
CITY OF LAS VEGAS FIRE DEPARTMENT DATE
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.

REGISTERED PROFESSIONAL ENGINEER JUSTIN THORNE Exp: 06/30/20 CIVIL No. 22841 STATE OF NEVADA
5/24/19
FOR REV 1 ONLY

PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIP\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_UT.DWG



PRV NOTES

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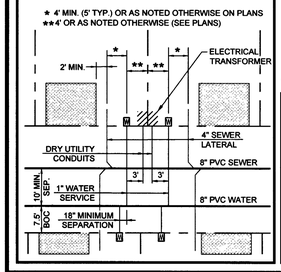
TYPICAL LATERAL LAYOUT

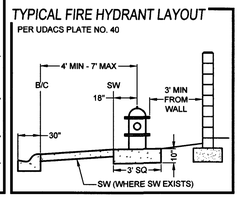
N.T.S

FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)



TYPICAL FIRE HYDRANT LAYOUT

PER UDACS PLATE NO. 40



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.

Call before you Dig
Avoid cutting underground utility lines. it's costly.
CALL 811 OR 1-800-227-2600

Avoid overhead power line contact. it's costly.
Call before you Overhead
1-702-227-2929

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,000 GPM @ 20 PSI RESIDUAL.

BASED ON:
SQUARE FOOTAGE: 6,200 SQUARE FEET
NUMBER OF STORIES / FLOORS: 2
AUTOMATIC FIRE SPRINKLER SYSTEM: ☐YES ☒ NO
ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 0 GPM

IF THE ANTICIPATED FIRE FLOW IS INSUFFICIENT, AND HOMES EXCEED THE DECLARED SQUARE FOOTAGE NOTED ABOVE, A NFPA 13D SPRINKLER SYSTEM SHALL BE REQUIRED.

OF HYDRANTS PROVIDED: 2

UTILITY DISCLAIMER

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ELEVATION (FEET): 2618.96 (798.258 METERS)

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10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

CONSTRUCTION NOTES

1. INSTALL 8" PVC SS (DCSWCS SD-17)
2. INSTALL 48" STANDARD MANHOLE W/ SINGLE 24" LID (DCSWCS SD-1A, SD-1B, & SD-4)
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4. 1" WATER SERVICE W/ 3/4" METER (UDACS PLATE NO. 1)
5. CAP AND 2" BLOW-OFF ASSEMBLY (UDACS PLATE NO. 36)
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7. REMOVE EX BLOW-OFF VALVE AND CONNECT TO EX WATERLINE
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9. INSTALL 45° HORIZONTAL BEND ROLLED 11° (UDACS PLT. 31)
10. INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40)
11. SAWCUT & MATCH INTO EXISTING AC PAVEMENT (CCAUSD #500.3, 500.4, 500.5 & 503)
12. NOT USED
13. INSTALL 8" GV PER UDACS PLT 30
14. INSTALL 10" X 8" REDUCER
15. NOT USED
16. INSTALL 8" X 6" TEE PER UDACS PLT. 31

PROFESSIONAL ENGINEER STATE OF NEVADA S. JUSTIN THORNE Exp: 6/30/20 CIVIL No. 22841
5/29/19
FOR REV Δ ONLY

ACCEPTANCE OF PLANS
Pamela Kennedy 1-10-19
SOUTHWEST GAS CORPORATION DATE

APPROVED FOR CONSTRUCTION
Bonnie Oson
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 2-6-19
LVVWD APPROVED FIRE FLOW 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

APPROVED FOR CONSTRUCTION
1/16/19
CITY OF LAS VEGAS FIRE DEPARTMENT DATE
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NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE
Δ	REVISION TO RETAINING TO KEEP RETAINING BELOW 6 FEET. MOVED NK TO BE AT THE B/C. ADDED SNG SHEETS	SJT	13		6/27/19

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8588 FAX:

TAMEY ENGINEERING
8010 S. JONES BOULEVARD
LAS VEGAS, NV 89139
(702) 362-8844 FAX: (702) 362-8233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
UTILITY PLAN 2

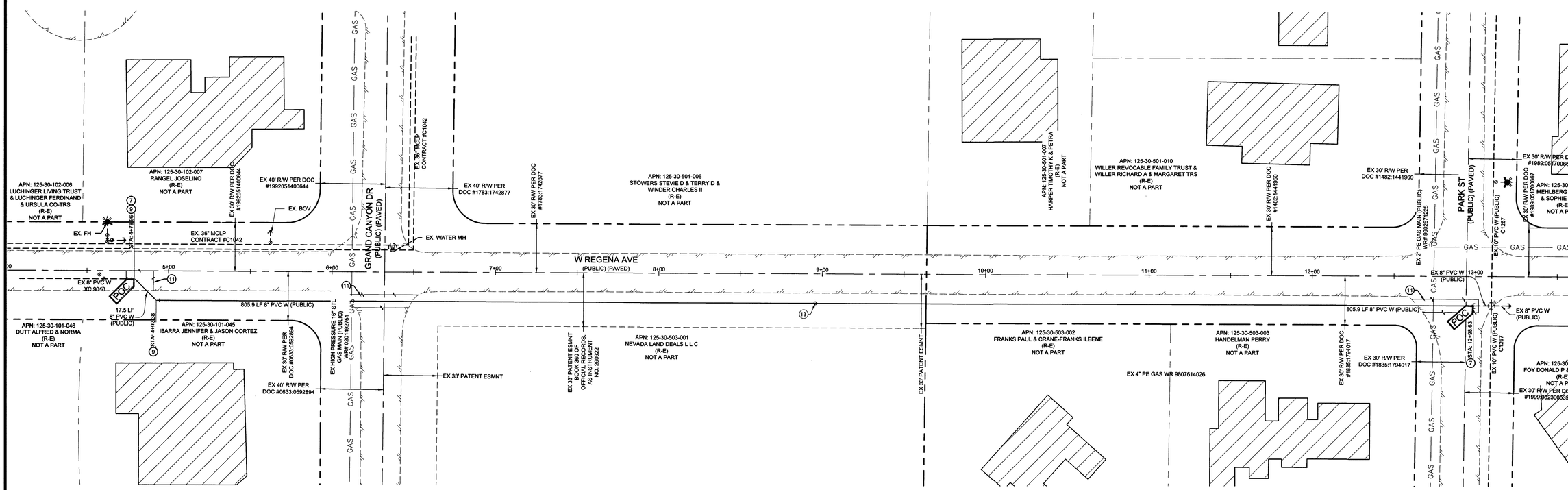
PROFESSIONAL ENGINEER STATE OF NEVADA S. JUSTIN THORNE Exp. 06-30-20 CIVIL No. 22841
1/9/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	UT2
SHEET NUMBER:	17 OF 20

---- PW18-18639
107Y5089 L18-02344

PROJ#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIP\S\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_UT.DWG



PRV NOTES

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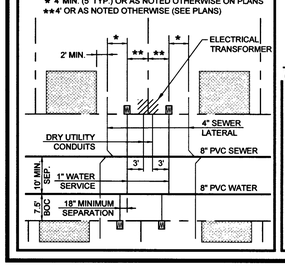
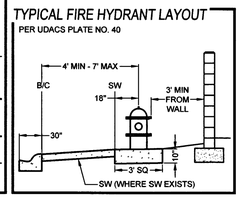
FOR LOTS LESS THAN 70' WIDE UNLESS OTHERWISE NOTED (SIZES AS NOTED ON PLANS)



TYPICAL FIRE HYDRANT LAYOUT

PER UDACS PLATE NO. 40



FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS 2,000 GPM @ 20 PSI RESIDUAL.

BASED ON:
SQUARE FOOTAGE: 6,200 SQUARE FEET
NUMBER OF STORIES / FLOORS: 2
AUTOMATIC FIRE SPRINKLER SYSTEM: ☐YES ☒ NO
ANTICIPATED FIRE SPRINKLER FLOW DEMAND: 0 GPM

IF THE ANTICIPATED FIRE FLOW IS INSUFFICIENT, AND HOMES EXCEED THE DECLARED SQUARE FOOTAGE NOTED ABOVE, A NFPA 13D SPRINKLER SYSTEM SHALL BE REQUIRED.

OF HYDRANTS PROVIDED: 2

Call before you Dig
Avoid cutting underground utility lines. It's costly.
CALL 811 OR 1-800-227-2600

Avoid overhead power line contact. It's costly.
Call before you Overhead
1-702-227-2929

UTILITY DISCLAIMER

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BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C90195ES
ELEVATION (FEET): 2618.96 (798.258 METERS)

UTILITY NOTES

1. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS), LATEST EDITION.
2. FIRE, WATER, AND SEWER SERVICES, AS APPROVED ON THIS PLAN, ARE INTENDED SPECIFICALLY FOR THE LOT AND USE SHOWN, AND ARE NOT INTENDED TO SERVICE ADDITIONAL PARCELS OR STRUCTURES WHICH MAY BE CREATED IN THE FUTURE. IN THE EVENT THAT THE PARCELS AND/OR LOTS SHOWN ON THIS PLAN ARE FURTHER DIVIDED TO CREATE ADDITIONAL PARCELS OR LOTS, THE OWNER IS REQUIRED TO PROVIDE SEPARATE FIRE, WATER, & SEWER SERVICES TO EACH.
3. WATER AND SEWER LATERALS SHALL BE INSTALLED A MINIMUM OF 48" APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF 12" ABOVE THE SEWER LATERAL. (REF. UNIFORM PLUMBING CODE)
4. LOCATOR RIBBON SHALL BE USED FOR ALL SERVICE LATERALS NOT PERPENDICULAR TO THE MAIN. (TYPICAL)
5. ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS" (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
6. ALL WORK TO BE PERFORMED OUTSIDE OF THE PROJECT BOUNDARY AND ON PRIVATE PROPERTY SHALL NOT BE PERFORMED UNTIL WRITTEN PERMISSION AND EASEMENTS HAVE BEEN OBTAINED FROM THE OFFSITE OWNER AND GIVEN TO CLARK COUNTY.
7. ALL ONSITE STREETS AND DRAINAGE EASEMENTS ARE TO BE PRIVATELY OWNED AND MAINTAINED.
8. INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING. (UDACS PLT 15.)
9. 3' MIN. HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES PER UDACS SECTION 2.04.02
10. 12" MIN. VERTICAL CLEARANCE REQUIRED BETWEEN WATER MAINS AND DRY UTILITIES AND 6" MIN. BETWEEN WATER LATERALS AND DRY UTILITIES PER UDACS SECTION 2.04.06

CONSTRUCTION NOTES

1. INSTALL 8" PVC SS (DCSWCS SD-17)
2. INSTALL 48" STANDARD MANHOLE W/ SINGLE 24" LID (DCSWCS SD-1A, SD-1B, & SD-4)
3. 4" SEWER LATERAL W/ MARKER BALL & CURB MARKING (DCSWCS SD-22)
4. 1" WATER SERVICE W/ 3/4" METER (UDACS PLATE NO. 1)
5. CAP AND 2" BLOW-OFF ASSEMBLY (UDACS PLATE NO. 36)
6. INSTALL 8" X 8" WATER TEE (UDACS PLT. 31)
7. REMOVE EX BLOW-OFF VALVE AND CONNECT TO EX WATERLINE
8. INSTALL 48" MANHOLE W/ CAST-IN-PLACE MANHOLE BASE (DCSWCS SD-7)
9. INSTALL 45° HORIZONTAL BEND ROLLED 11° (UDACS PLT. 31)
10. INSTALL FIRE HYDRANT ASSEMBLY W/ 6" GATE VALVE (UDACS PLT. 40)
11. SAWCUT & MATCH INTO EXISTING AC PAVEMENT (CCAUSD #500.3, 500.4, 500.5 & 503)
12. NOT USED
13. INSTALL 8" GV PER UDACS PLT 30
14. INSTALL 10" X 8" REDUCER
15. NOT USED
16. INSTALL 8" X 6" TEE PER UDACS PLT. 31

CAUTION: HIGH PRESSURE GAS!!

CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION.

ACCEPTANCE OF PLANS

Pamela Kennedy 1-10-19
SOUTHWEST GAS CORPORATION DATE

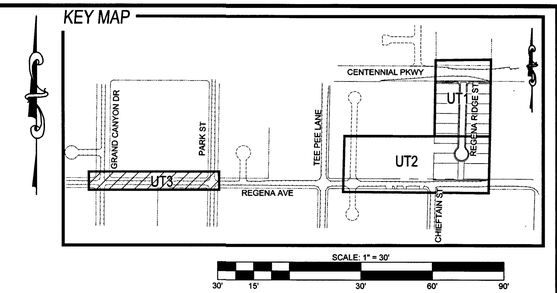
APPROVED FOR CONSTRUCTION

Dianne Dean
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT# 135691 FIRST APPROVED DATE 2-16-19
LVVWD APPROVED FIRE FLOW: 2000 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW N/A GPM

APPROVED FOR CONSTRUCTION

1/16/19
CITY OF LAS VEGAS FIRE DEPARTMENT DATE
APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS. FIRE FLOW = 2,000 G.P.M. AT 20 PSI RESIDUAL.

KEY MAP



NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 304-8586 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 363-0233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
UTILITY PLAN 3

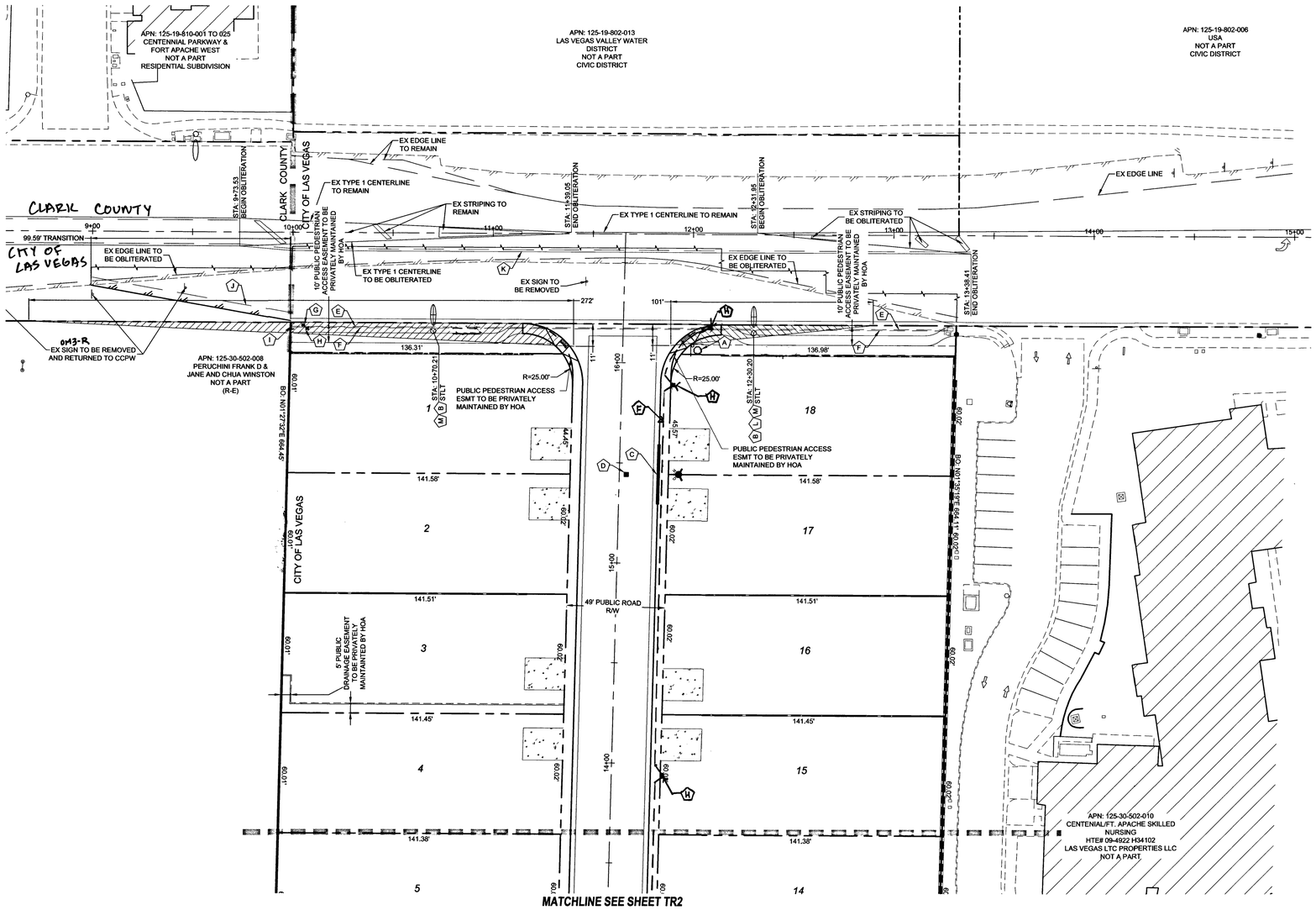
REGISTERED PROFESSIONAL ENGINEER S. JUSTIN THORNE Exp. 06-30-20 CIVIL No. 22841 STATE OF NEVADA
1/9/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	UT3
SHEET NUMBER:	18 OF 20

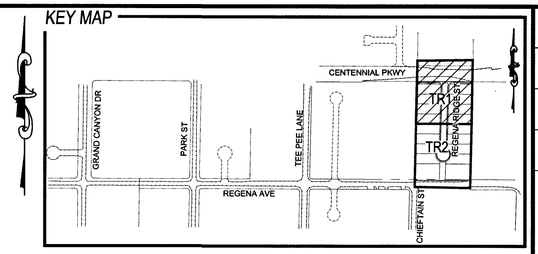
PW18-18639
107Y5089 L18-02344

PRO.#:135691A QS:125-30-NE

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENGIP\SPRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_UT.DWG



KEY MAP



SCALE: 1" = 30'
30' 15' 30' 60' 90'

STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "A"

IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)	YES	CONNECT TO EX.
	NO	INSTALL A NEW SERVICE PEDESTAL
SERVICE PEDESTAL LOCATION: SOUTHWEST CORNER OF W. CENTENNIAL PKWY & N. FORT APACHE RD. (ADDRESS; 6397 N. FT. APACHE RD.).		
CITY OF LAS VEGAS (COMPLETE IF EXISTING SERVICE):		
DATE OF CAPACITY VERIFICATION: MIKE PERRY - N/A		
ENGINEER OF THE OFFSITE PLANS: JUSTIN S. THORNE, P.E.		
PERSON WHO DID THE CALCULATIONS: JUSTIN S. THORNE, P.E.		
CONSULTING ENGINEERING FIRM: TANEY ENGINEERING		
CAPACITY CALCULATIONS		

1.	CIRCUIT CAPACITY		60.0	AMPS
2.	MAXIMUM CONTINUOUS CURRENT DRAW (80%)		48.0	AMPS
3.	EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)		3.5	AMPS
4.	AVAILABLE (2 MINUS 3)		44.5	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT		STLTS		
5.	NUMBER OF LED STLTS FOR 60' OR LESS R/W		0	AMPS
6.	NUMBER OF LED STLTS FOR 80'-100' (X2) R/W	2	3.5	AMPS
7.	TOTAL PROPOSED ADDITIONAL LOAD (5+6)		3.5	AMPS
	REMAINING AVAILABLE LOAD (4 MINUS 7)		41	AMPS

CONSTRUCTION NOTES

- (A) INSTALL 36" R1-1 "STOP" SIGN W/ (2) 9" D-3 "STREET NAME" SIGNS
- (B) INSTALL 100' ROW LED STLT PER QPL PER CCAUSD 300.S3, 302.S2, 314, 320, & 321
- (C) PAINT CURB RED 15' EACH SIDE OF HYDRANT
- (D) INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER
- (E) INSTALL 4" PVC F.A.S.T. CONDUIT
- (F) INSTALL 1 1/4" STLT CONDUIT W/ (2) NO. 4 AND (1) NO. 8 THW-2 OR XHHW-2 COPPER CONDUCTORS
- (G) INSTALL P30 PULL BOX WITH FIBER OPTICS INSCRIBED ON LID FOR F.A.S.T. CONDUIT
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- (J) INSTALL 4" WIDE WHITE EDGE LINE
- (K) INSTALL TYPE 2 CENTERLINE PER CCAUSD NO. 244
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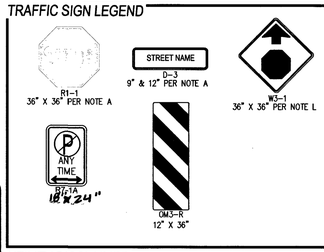
- (M) INSTALL R7-1A "NO PARKING ANYTIME" SIGN
- (N) INSTALL OM3-R @ 25' O.C.
- (O) PAINT CURB RED AROUND CUL-DE-SAC PER IFC SECTION 503.3

SIGHT VISIBILITY ZONES (SVZ)
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SVZ UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24" IN HEIGHT FROM THE ADJACENT TOP OF CURB, OR 27" FROM THE TOP OF ADJACENT ASHPALT WHERE NO CURB EXISTS. (CCAUSD 201)

TRAFFIC SIGN LEGEND



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BENCHMARK

RIVET AND SQUARE ALUMINUM PLATE IN A CONCRETE MONUMENT, 50' NORTH AND 40' WEST OF CENTENNIAL PKWY AND FORT APACHE RD. STATION: 1C9019SES
ELEVATION (FEET): 2618.96 (798.258 METERS)

APPROVED FOR CONSTRUCTION

1/16/19

CITY OF LAS VEGAS FIRE DEPARTMENT DATE

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Clark County Public Works
ACCEPTED
BY: DATE:
ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF ANY VIOLATION OF STATE, COUNTY OR FEDERAL LAW SPECIFICATIONS OR THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

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NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8388 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-5233

EST. 2000

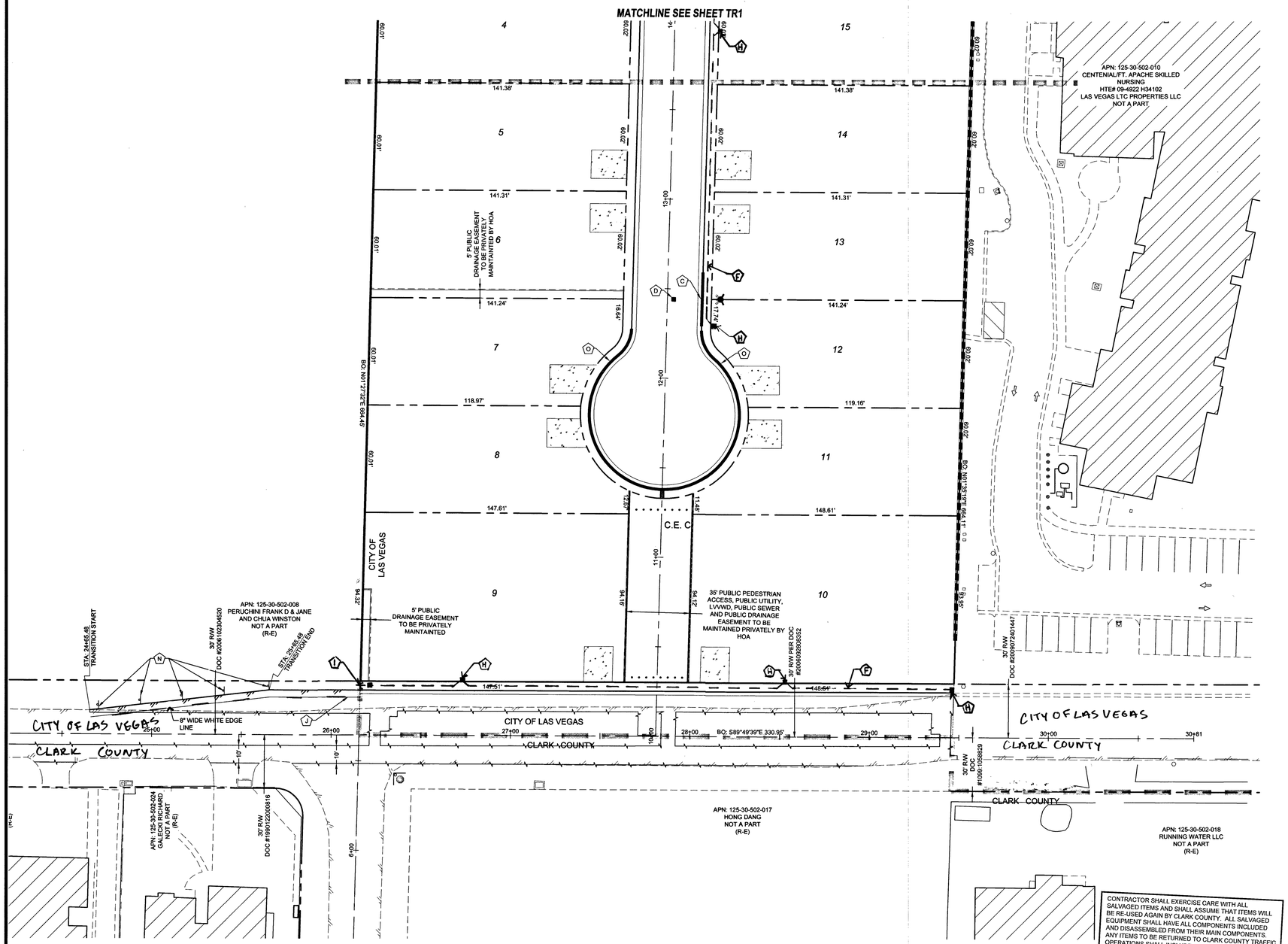
CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
TRAFFIC PLAN 1

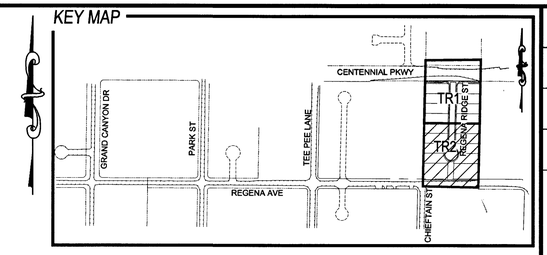
REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA — S. JUSTIN THORNE — Exp. 06-30-20 — CIVIL — No. 22841 — 1/9/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	TR1
SHEET NUMBER:	19 OF 20

PW18-18639
107Y5089 L18-02344

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENG\PS\PRODUCTION\DWGS\SHEET DWGS\ADVT708L_SHT_TR.DWG





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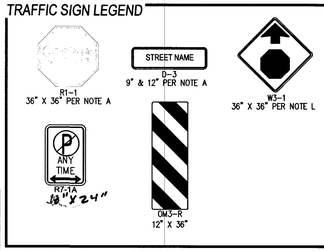

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ELEVATION (FEET): 2618.96 (798.258 METERS)

APPROVED FOR CONSTRUCTION

1/10/19
CITY OF LAS VEGAS FIRE DEPARTMENT — DATE

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Clark County Public Works
ACCEPTED
BY: 3/25/19 DATE:
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NO.	DESCRIPTION	BY	SHTS.	APPR.	DATE

REVISIONS

ADAVEN HOMES
3425 CLIFF SHADOWS PKWY
LAS VEGAS, NV 89129
(702) 365-8588 FAX:

TANEY ENGINEERING
6030 S. JONES BOULEVARD
LAS VEGAS, NV 89118
(702) 362-8844 FAX: (702) 362-3233

EST. 2000

CENTENNIAL & FORT APACHE
A RESIDENTIAL SUBDIVISION
TRAFFIC PLAN 2

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEVADA — S. JUSTIN THORNE — Exp. 06-30-20 — CIVIL — No. 22841 — 1/9/19

DATE:	1/9/2019
SCALE:	1"=30'
JOB NO:	ADV-17-086
DESIGNED BY: BP	CHECKED BY: SJT
SHEET NAME:	TR2
SHEET NUMBER:	20 OF 20

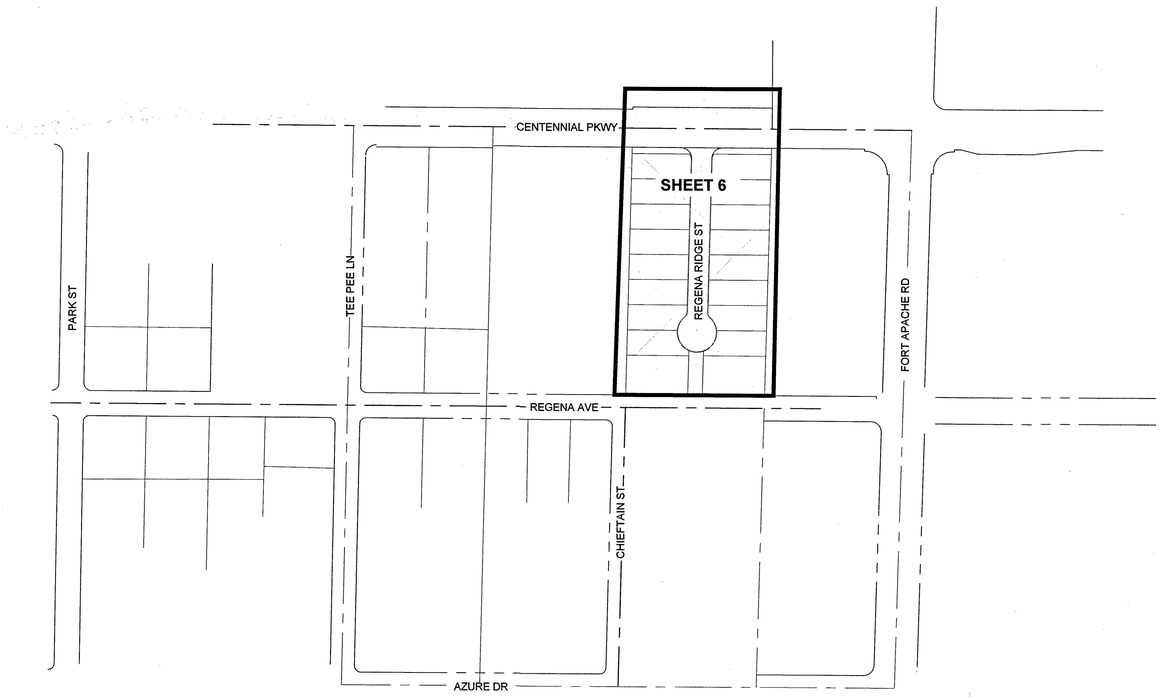
— PW18-18639
107Y5089 L18-02344

FILE NAME: S:\ACTIVE\ADAVEN HOMES\ADV-17-086 - FORT APACHE & CENTENNIAL\ENG\PS\PRODUCTION\DWGS\SHEET DWGS\ADV17086_SHT_TR.DWG

LEGEND

- EXISTING GAS MAIN
- EXISTING GAS SERVICE
- GAS LINE TO BE ABANDONED
- STEEL RISER
- ANODELESS RISER
- GASLIGHT
- GAS VALVE
- EXCESS FLOW VALVE
- RELIEF VALVE
- COUPLINGS (C—C, E—F)
- BOND OVER (B—O)
- TEST POINT (T—P)
- INSULATOR
- REGULATOR STATION (R, R)
- RECTIFIER
- ANODE
- SCADA
- METER SET ASSEMBLY (M, M)
- PURGE POINT
- BRANCH,CVT,LINE STOPPER (B, CVT, S)
- GAS LINE TO BE ABANDONED
- PROPOSED GAS MAIN
- PROPOSED GAS SERVICE
- EXISTING EASEMENT
- ROW LINE
- PROPERTY LINE
- STREET CENTERLINE
- EDGE OF PAVEMENT
- CABLE LINE - UNDERGROUND (CATV)
- ELECTRIC - OVERHEAD (OHE)
- ELECTRIC - UNDERGROUND (UGE)
- FIBER OPTIC - UNDERGROUND (FO)
- PHONE - OVERHEAD (OHT)
- PHONE - UNDERGROUND (UGT)
- RECLAIMED WATER (RW)
- SEWER (S)
- STORMWATER (SD)
- WATER (W)
- UTILITY PEDESTALS (G, E, W, T)
- FIRE HYDRANT
- MANHOLE
- WATER VALVE
- SURVEY MONUMENT
- POWER POLE
- GAS FLOW ARROW (FLOW)

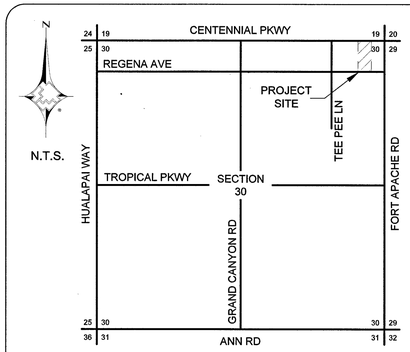
N.T.S.



SHEET INDEX MAP

SHEET INDEX

1	COVERSHEET
2	SIGNATURE SHEET
3 - 5	NOTES AND STANDARD DETAILS
6	DESIGN SHEET



LOCATION MAP

T19S R60E S30

City of Las Vegas

Total footage located in Public ROW 15'

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENTS ONLY. OBTAINING PERMISSION OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

SEE COVER OF CIVIL PLAN

Approval Date

CUSTOMERS 18

Know what's **below.** **Call** before you dig.

SOUTHWEST GAS CORPORATION

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REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD.

PERMIT INFORMATION	ISOLATION AREA	LOCATION	ATLAS OR TILE
CITY OF LAS VEGAS 02-0200	ISO_21_DIST_024	T19S R60E S30 M.D.M.	x582y554

D_VALLEY_WIDE	
SYSTEM MAOP:	43
SYSTEM MOP:	43
SYSNAME2	
SYSTEM MAOP:	
SYSTEM MOP:	

JOB TYPE	
HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

WR NO. 3793287

RELATED WR NO.S N/A

ENGINEER/TECHNICIAN	DAVID FRIEDLANDER	PHONE: 702-365-2203
ACCOUNT REP.	TONY VANCHIERI	PHONE: 702-802-9486
PROJECT CONTACT	PATTY CRAWFORD	PHONE: 702-601-7497
SHEET NO. 1 OF 6	SCALE N.T.S.	DATE 03/19/2019
DWN. BY SEI	CHKD. BY DF	APPVD. BY BWF

CENTENNIAL & FORT APACHE 2

L18-02344 107Y 5089

PRESSURE TEST PERFORMED BY AND VERIFIED BY SIGNATURES

I HAVE **PERFORMED** THE PRESSURE TESTS AS SHOWN ON THE AS-BUILT AND IN ACCORDANCE WITH THE OPERATIONS MANUAL.

I HAVE **VERIFIED** THE PRESSURE TESTS AS SHOWN ON THE AS-BUILT AND IN ACCORDANCE WITH THE OPERATIONS MANUAL.

PRESSURE TEST #____ PERFORMED BY_____ DATE _____

SWG VERIFIED BY_____ DATE _____

PURGE PLAN PERFORMED BY SIGNATURES

PURGE PLAN WAS COMPLETED IN ACCORDANCE WITH THE OPERATIONS MANUAL GUIDELINES:

PERFORMED BY_____ DATE _____ SHEET#_____

LOCATION _____

PIPE JOINER VISUAL INSPECTION CERTIFICATION

I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT, CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED

NAME _____ PJQ# _____

2ND VISUAL INSPECTION CERTIFICATION

I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT, CEMENT AND MECHANICAL JOINTS THAT HAVE BEEN PERFORMED (INSPECTION OF FINAL JOINT ON PLASTIC PIPE ONLY)

NAME _____ PJQ# _____

CONSTRUCTION

INSPECTOR _____ PJQ#_____

FOREMAN _____ PJQ#_____

REVIEWED BY _____ PJQ#_____

<INPUT COMPANY NAME>

AS-BUILT DRAWING-PRESSURE TEST DATA TEST #____

DESCRIPTION: TEST MEDIUM TEST METHOD

TEST POINTS _____ ☐ AIR ☐ GAUGE

PIPE DIA. _____ ☐ NITROGEN ☐ CHART

TOTAL LENGTH _____ ☐ WATER ☐ SOAP

PIPE TYPE _____ ☐ NATURAL GAS

GAUGE SN#_____

MIN. DURATION _____ PRESS REC SN#_____

PRESSURE (ALL TESTS) (START)_____ (STOP) _____

PRESSURE (CHART ONLY) (MIN) _____ (MAX) _____

TIME (START)_____ (STOP) _____

DATE (START)_____ (STOP) _____

INTERMEDIATE LEAK TEST YES ☐ NO ☐

LEAK SURVEY WR# (NATURAL GAS TEST ONLY)_____

ANY LEAKS OR FAILURES ON A TEST YES ☐ NO ☐

IF YES, NOTE THE LEAKS AND FAILURES AND THEIR DISPOSITION:

PERFORMED BY (PRINT NAME AND EMPLOYEE # OR CONTRACTOR #):

<INPUT COMPANY NAME>

AS-BUILT DRAWING-PRESSURE TEST DATA TEST #____

DESCRIPTION: TEST MEDIUM TEST METHOD

TEST POINTS _____ ☐ AIR ☐ GAUGE

PIPE DIA. _____ ☐ NITROGEN ☐ CHART

TOTAL LENGTH _____ ☐ WATER ☐ SOAP

PIPE TYPE _____ ☐ NATURAL GAS

GAUGE SN#_____

MIN. DURATION _____ PRESS REC SN#_____

PRESSURE (ALL TESTS) (START)_____ (STOP) _____

PRESSURE (CHART ONLY) (MIN) _____ (MAX) _____

TIME (START)_____ (STOP) _____

DATE (START)_____ (STOP) _____

INTERMEDIATE LEAK TEST YES ☐ NO ☐

LEAK SURVEY WR# (NATURAL GAS TEST ONLY)_____

ANY LEAKS OR FAILURES ON A TEST YES ☐ NO ☐

IF YES, NOTE THE LEAKS AND FAILURES AND THEIR DISPOSITION:

PERFORMED BY (PRINT NAME AND EMPLOYEE # OR CONTRACTOR #):

<INPUT COMPANY NAME>

AS-BUILT DRAWING-PRESSURE TEST DATA TEST #____

DESCRIPTION: TEST MEDIUM TEST METHOD

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TOTAL LENGTH _____ ☐ WATER ☐ SOAP

PIPE TYPE _____ ☐ NATURAL GAS

GAUGE SN#_____

MIN. DURATION _____ PRESS REC SN#_____

PRESSURE (ALL TESTS) (START)_____ (STOP) _____

PRESSURE (CHART ONLY) (MIN) _____ (MAX) _____

TIME (START)_____ (STOP) _____

DATE (START)_____ (STOP) _____

INTERMEDIATE LEAK TEST YES ☐ NO ☐

LEAK SURVEY WR# (NATURAL GAS TEST ONLY)_____

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PERFORMED BY (PRINT NAME AND EMPLOYEE # OR CONTRACTOR #):

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D_VALLEY_WIDE	
SYSTEM MAOP:	43
SYSTEM MOP:	43

SYSNAME2	
SYSTEM MAOP:	
SYSTEM MOP:	

JOB TYPE

- HP SERVICE ☐
- DISTRIBUTION ☒
- FEEDER ☐
- TRANS. BY DEF ☐
- TRANS > 20% ☐

WR NO. 3793287

RELATED WR NO.S N/A

ENGINEER/TECHNICIAN	DAVID FRIEDLANDER		PHONE: 702-365-2203
ACCOUNT REP.	TONY VANCHIERI		PHONE: 702-802-9486
PROJECT CONTACT	PATTY CRAWFORD		PHONE: 702-6017497
SHEET NO. 2 OF 6		SCALE N.T.S.	DATE 03/19/2019
DWN. BY SEI		CHKD. BY DF	APPVD. BY BWF

CENTENNIAL & FORT APACHE

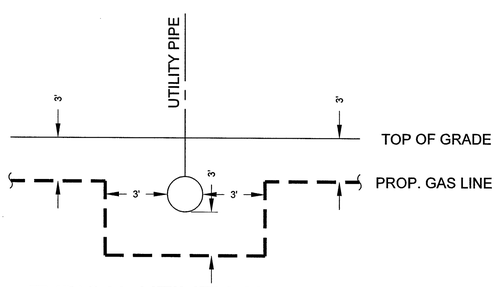
22

L18-02344

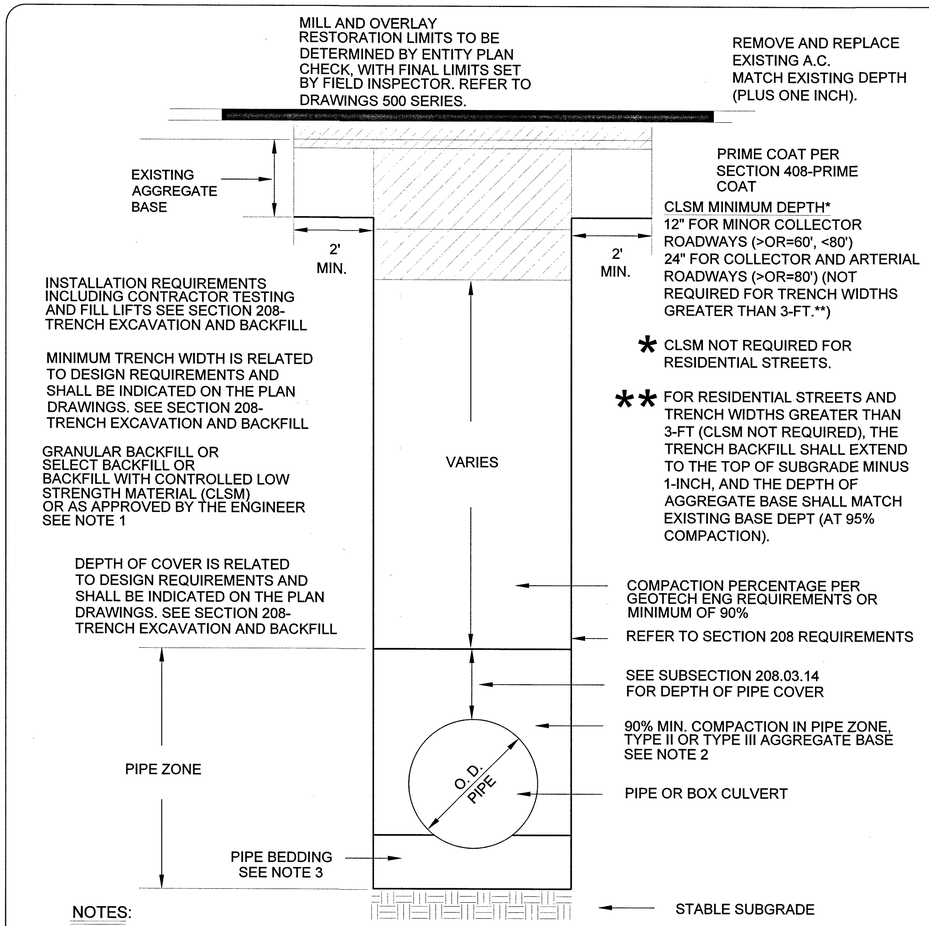
10745089

GENERAL NOTES:

1. SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES. LOCATE IN FIELD.
2. ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS..
3. DO NOT SCALE THIS DRAWING.
4. CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
5. GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
6. ALL EXISTING UTILITY LOCATIONS TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
7. TRENCH IS TO BE EXCAVATED TO THE DEPTH AND WIDTH AS INDICATED ON THE TRENCH DETAIL(S).
8. CONTACT ENGINEERING FOR BYPASS INFORMATION.
9. ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED..
10. ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
11. REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
12. TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503. AND UNIFORM STANDARD SPEC SECTION 208.
13. MINIMUM TEST DURATION REQUIREMENTS AND GUIDELINES FOR MAIN INSTALLATION IN SYSTEMS <60PSIG ARE:
    A. MINIMUM TEST DURATION IS 8 HOURS FOR PIPES 1-1/4-INCHES OR GREATER, WITH FOOTAGES BETWEEN 3,001 FEET AND 10,000 FEET.
    B. ALL FOOTAGES GREATER THAN 3,000 FEET REQUIRE A CHART.
    C. CONSTRUCTION SHALL CONTACT ENGINEERING FOR MINIMUM TEST DURATIONS IF THE FOOTAGE TO BE TESTED EXCEEDS 10,000 FEET.



TYPICAL UTILITY CROSSING DETAIL
NOT TO SCALE



NOTES:

1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503

ABBREVIATIONS:

AA	ALDYL-A PIPE
ABND	ABANDONED
AC	ASPHALTIC CONCRETE
AC#	ACCELERATED CONSTRUCTION
ACP	ASBESTOS CEMENT PIPE
APN	ASSESSOR PARCEL NUMBER
BLVD	BOULEVARD
BM	BENCHMARK
BO	BLOW OFF
BTU	BRITISH THERMAL UNIT
CIP	CAST IRON PIPE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CP	CATHODIC PROTECTION
D	INSIDE DIAMETER
DDCA	DESIGN DATA COLLECTION APPLICATION
DET	DETAIL
DIP	DUCTICLE IRON PIPE
DIA	DIAMETER
DIMP	DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM
DP	DESIGN PRESSURE
DWG	DRAWING
EFV	EXCESS FLOW VALVE
EG	EXISTING GRADE
ELEC	ELECTRICAL
ELEV	ELEVATION
EMS	ELECTRONIC MARKING SYSTEM
E.P	END POINT
EPR	ELECTRONIC PRESSURE RECORDERS
ESMT	EASEMENT
EX	EXISTING
FERC	FEDERAL ENERGY REGULATORY COMMISSION
FH	FIRE HYDRANT
GIR	GAS INFRASTRUCTURE REPLACEMENT
GPR	GAS PRESSURE REGULATOR
HCA	HIGH CONSEQUENCE AREA
HDD	HEATING DEGREE DAY
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH PRESSURE
HOP	HISTORIC OPERATING PRESSURE
HVTT	HIGH VOLUME TAPPING TEE
IN	INCH(ES)
IPS	IRON PIPE SIZE
JT	JOINT TRENCH
MAOP	MAXIMUM ALLOWABLE OPERATING PRESSURE
M&C	MEASUREMENTS & CONTROL
MCFH	THOUSAND CUBIC FEET PER HOUR
MH	MANHOLE
MOP	MAXIMUM OPERATING PRESSURE
MP	MANUFACTURER'S PRESSURE RATING
MSA	METER SET ASSEMBLY
MVP	MAPPING VERIFICATION PROCEDURE
NAP	NOT A PART
NTSB	NATIONAL TRANSPORTATION SAFETY BOARD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
P	POWER
PAOP	POTENTIONAL ALLOWABLE OPERATING PRESSURE
PCC	PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE PIPE
PH	POT HOLE
PHMSA	PIPELINE & HAZARDOUS MATERIALS SAFETY ADMINISTRATION
PL	PROPERTY LINE
PIC	POTENTIAL IMPACT CIRCLE
PLS	PRESSURE LIMITING STATION
P.O.B	POINT OF BEGINNING
PP	POWER POLE
PROP	PROPOSED
PQF	PREQUALIFIED FITTING
PSIG	POUNDS PER SQUARE INCH (GAUGE)
PVC	POLYVINYL CHLORIDE
PUE	PUBLIC UTILITY EASEMENT
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDR	STANDARD DIMENSION RATIO
SF	SQUARE FOOT
SHT	SHEET
SLSV	SERVICE LINE SHUT-OFF VALVE
SMYS	SPECIFIED MAXIMUM YIELD STRENGTH
SS	SANITARY SEWER
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STL	STEEL
SWG	SOUTHWEST GAS
TDS	TEST DATA SHEET
TEL	TELEPHONE
TB	THRUST BLOCK
TOP	TOP OF PIPE
TP	TEST POINT
TS	TECHNICAL SERVICE NOTE
TRIMP	TRANSMISSION INTEGRITY MANAGAMENT PROGRAM
TYP	TYPICAL
U.E.	UTILITY EASEMENT
UGE	UNDERGROUND ELECTRIC
UOC	UNUSUAL OPERATING CONDITION
USD	UNIFORM STANDARD DRAWING
UGT	UNDERGROUND TELEPHONE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VG	VALLEY GUTTER
VSP	VINTAGE STEEL PIPE
W	WATER
WMS	WORK MANAGEMENT SYSTEM
WR	WORK REQUEST
WT	WALL THICKNESS
WV	WATER VALVE
YD	YARD(S)

DESIGN PIPE SUMMARY	
DESIGN QTY.	DESCRIPTION
601'	2" PE8100
305'	1" PE8100

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SYSTEM MAOP:	43
SYSTEM MOP:	43
SYSNAME2	
SYSTEM MAOP:	
SYSTEM MOP:	

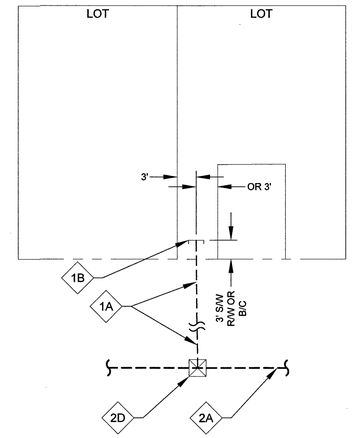
JOB TYPE	
HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

WR NO.
3793287
RELATED WR NO.S
N/A

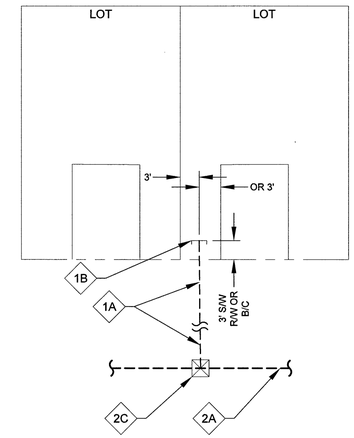
ENGINEER/TECHNICIAN	DAVID FRIEDLANDER		PHONE: 702-365-2203
ACCOUNT REP.	TONY VANCHIERI		PHONE: 702-802-9486
PROJECT CONTACT	PATTY CRAWFORD		PHONE: 702-601-7497
SHEET NO. 3 OF 6		SCALE N.T.S.	DATE 03/19/2019
DWN. BY SEI		CHKD. BY DF	APPVD. BY BWF

CENTENNIAL & FORT APACHE 23

L18-02344 10715089



TYPICAL RESIDENTIAL
SINGLE SERVICE
4A LATERAL DETAIL
4 N.T.S.



TYPICAL RESIDENTIAL
BRANCH SERVICE
4B LATERAL DETAIL
4 N.T.S.

2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	0'	0'	100-5101	2" PE8100 MAIN	N/A	N/A
2C	8	0'	160-8394	2" X 1" PE TAPPING TEE W/1800 EFV	N/A	N/A
2D	2	0	160-8577	2" X 1" PE TAPPING TEE W/1200 EFV	N/A	N/A

1 1/4" AND BELOW, DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
1A	305'	0'	101-8526	1" PE SERVICE	N/A	N/A
1B	10	0'	850-8773	1" PE CAP	N/A	N/A

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JOB TYPE	
HP SERVICE	☐
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TRANS. BY DEF	☐
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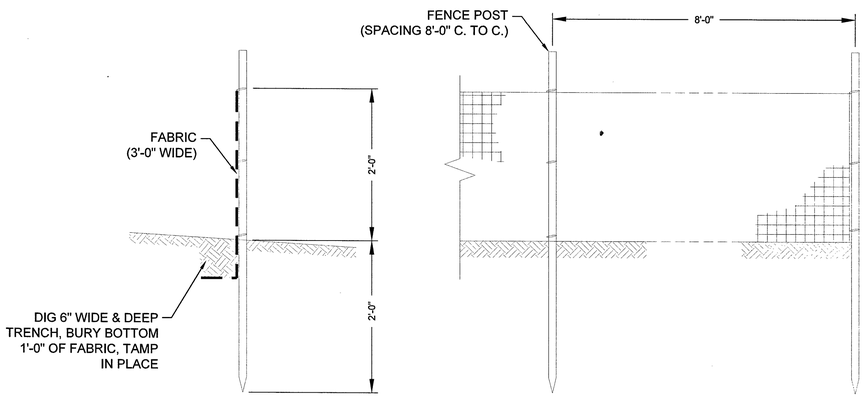
SHEET NO. 4 OF 6		SCALE N.T.S.	DATE 03/19/2019
DWN. BY SEI		CHKD. BY DF	APPVD. BY BWF

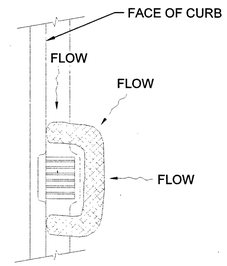
CENTENNIAL & FORT APACHE 24

LIB-62344 107Y5089

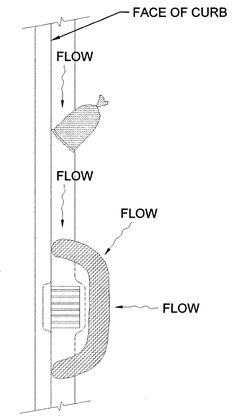
TYPICAL SWPPP BMP DETAILS



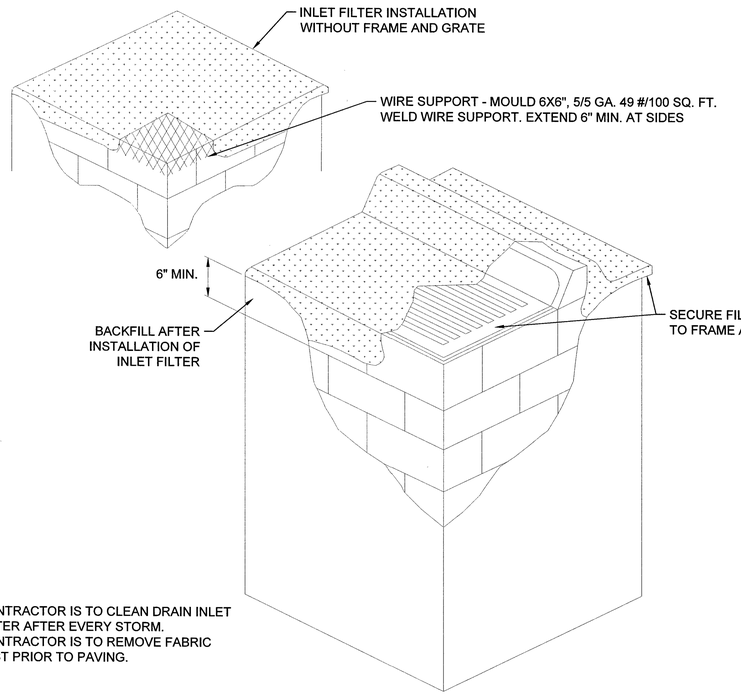
1 - SILT FENCE
N.T.S.



2 - FIBER ROLL
N.T.S.

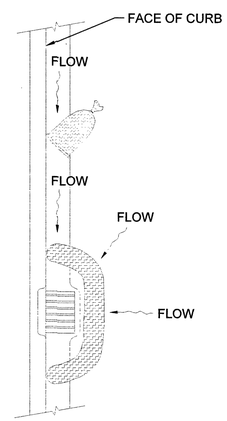


3 - SAND BAG/ ROLL
N.T.S.

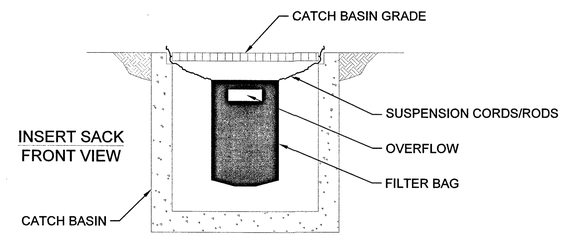


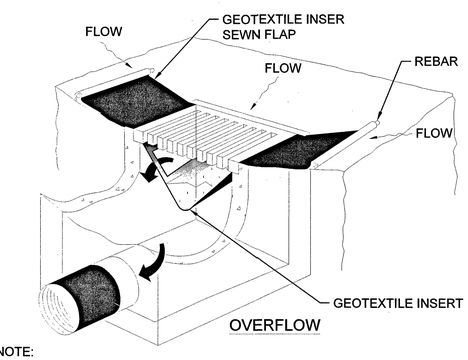
NOTE:
1. CONTRACTOR IS TO CLEAN DRAIN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR IS TO REMOVE FABRIC JUST PRIOR TO PAVING.

4 - DRAIN INLET FILTER
N.T.S.



5 - GRAVEL BAG/ ROLL
N.T.S.





NOTE:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS.
SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.

6 - SEDIMENT FILTER BAG
N.T.S.

SWPPP NOTES

1. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMPS FOR THE PROTECTION OF EXISTING STORM DRAIN INLETS, WITHIN OR SIGNIFICANTLY NEAR ANY IMPROVED RIGHT-OF-WAY, FROM DEBRIS AND SEDIMENT RESULTING FROM CONSTRUCTION OF NATURAL GAS FACILITIES.
2. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, 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, USING BEST MANAGEMENT PRACTICES DETAILED ON THIS SHEET.
3. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE LISTED BMPS ON THIS SHEET DOT NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.40/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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REVISIONS

NO.	DESCRIPTION	BY	DATE	APPVD.

PERMIT INFORMATION	ISOLATION AREA	LOCATION	ATLAS OR TILE
CITY OF LAS VEGAS 02-0200	ISO_21_DIST_024	T19S R60E S30 M.D.M.	x582y554

D_VALLEY_WIDE	
SYSTEM MAOP:	43
SYSTEM MOP:	43
SYSNAME2	
SYSTEM MAOP:	
SYSTEM MOP:	

JOB TYPE	
HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

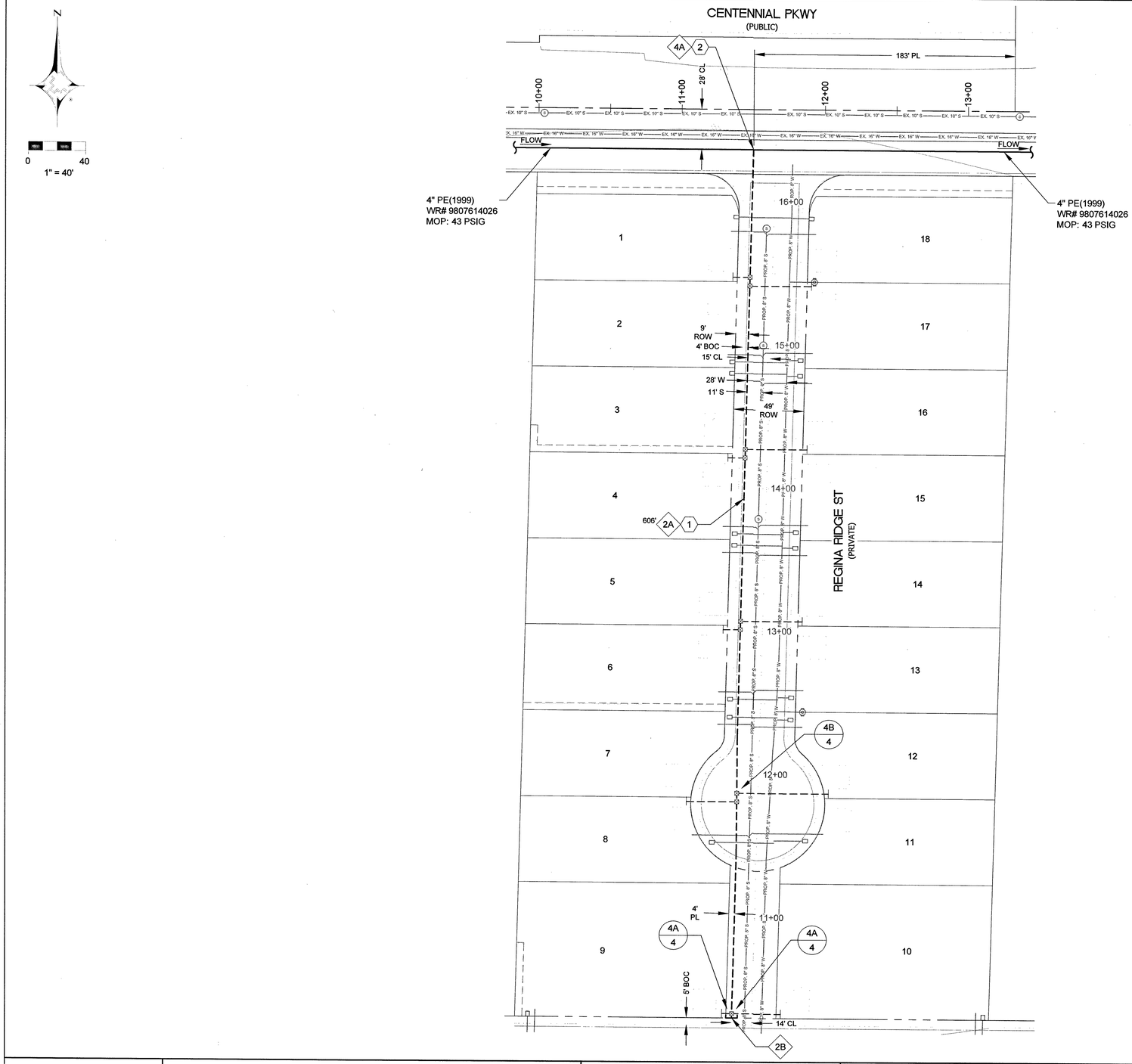
WR NO. 3793287

RELATED WR NO.S N/A

ENGINEER/TECHNICIAN	DAVID FRIEDLANDER		PHONE: 702-365-2203
ACCOUNT REP.	TONY VANCHIERI		PHONE: 702-802-9486
PROJECT CONTACT	PATTY CRAWFORD		PHONE: 702-601-7497
SHEET NO. 5 OF 6		SCALE N.T.S.	DATE 03/19/2019
DWN. BY SEI		CHKD. BY DF	APPVD. BY BWF

CENTENNIAL & FORT APACHE 25

~~1077~~ L18-02344 10745089



2" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
2A	606'	0'	101-5101	2"PE MAIN	N/A	N/A
2B	1	0	140-3060	2" PE CAP	N/A	N/A

4" DISTRIBUTION MATERIALS LIST						
CODE	DESIGN QTY.	AS-BUILT QTY.	STOCK ID	DESCRIPTION	SEAM	COATING
4A	1	0	160-8174	4" X 2" PE HIGH VOLUME TAPPING TEE	N/A	N/A

CONSTRUCTION NOTES	
1	RTC 503
2	TIE NEW 2" PE8100 TO EXISTING 4" PE8100

Know what's **below.**
Call before you dig.

SOUTHWEST GAS CORPORATION

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REVISIONS			
NO.	DESCRIPTION	BY	DATE	APPVD.

PERMIT INFORMATION	ISOLATION AREA	LOCATION	ATLAS OR TILE
CITY OF LAS VEGAS 02-0200	ISO_21_DIST_024	T19S R60E S30 M.D.M.	x582y554

D_VALLEY_WIDE	
SYSTEM MAOP:	43
SYSTEM MOP:	43
SYSNAME2	
SYSTEM MAOP:	
SYSTEM MOP:	

JOB TYPE	
HP SERVICE	☐
DISTRIBUTION	☒
FEEDER	☐
TRANS. BY DEF	☐
TRANS > 20%	☐

WR NO.
3793287
RELATED WR NO.S
N/A

ENGINEER/TECHNICIAN	DAVID FRIEDLANDER		PHONE: 702-365-2203
ACCOUNT REP.	TONY VANCHIERI		PHONE: 702-802-9486
PROJECT CONTACT	PATTY CRAWFORD		PHONE: 702-601-7497
SHEET NO. 6 OF 6		SCALE 1" = 40'	DATE 03/19/2019
DWN. BY SEI		CHKD. BY DF	APPVD. BY BWF

CENTENNIAL & FORT APACHE

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L18-02344

107Y5089