

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.
2. LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM INFORMATION RECEIVED FROM THE APPLICABLE UTILITY CO.'S. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT IN THE LOCATION SHOWN PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITY REGARDING UTILITIES SHALL AS BE 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 CAUTION WHEN WORKING OVER OR NEAR EXISTING GAS MAINS AND UNDERGROUND POWER LINES.
3. ALL CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS AND STANDARDS DRAWINGS CLARK COUNTY AREA, NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS", LATEST REVISION.
4. 4. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:
LAS VEGAS VALLEY WATER DISTRICT 702-258-7171
NEVADA POWER COMPANY 702-244-7171
CENTURYLINK TELEPHONE COMPANY 702-633-8400
SOUTHWEST GAS CORPORATION 702-651-2111
COX COMMUNICATIONS (CABLE CO.) 702-384-8084

5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING 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 RECONSTRUCTED SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
6. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CLARK COUNTY TRAFFIC CONTROL PLANS.
7. THE QUANTITIES GIVEN IN THE DRAWINGS ARE APPROXIMATE ONLY, BEING GIVEN AS A BASIS FOR THE COMPARISON OF BIDS, AND THE OWNER DOES NOT EXPRESSLY OR BY IMPLICATION, AGREE THAT THE ACTUAL AMOUNT OF WORK REQUIRED WILL CORRESPOND THERETO, BUT RESERVES THE RIGHT TO MAKE SUCH ALTERATIONS, DEVIATIONS, ADDITIONS TO OR OMISSIONS FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE RIGHT TO INCREASE OR DECREASE THE QUANTITY OF ANY ITEM OR PORTION OF THE WORK, AS MAY BE DEEMED BY THE OWNER TO BE NECESSARY. ANY SUCH CHANGES WILL BE SET FORTH IN A CONTRACT CHANGE ORDER WHICH WILL SPECIFY, IN ADDITION TO THE WORK TO BE DONE IN CONNECTION WITH THE CHANGE MADE, ADJUSTMENT OF CONTRACT TIME, IF ANY, AND THE BASIS OF COMPENSATION FOR SUCH WORK. A CONTRACT CHANGE ORDER WILL NOT BECOME EFFECTIVE UNTIL APPROVED BY THE OWNER.
8. 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 SECTION 609 OF THE STANDARD SPECIFICATIONS.
9. REMOVAL OR RELOCATION OF POWER POLES, TELEPHONE POLES, JOINTLY-OWNED POLES AND APPURTENANCES WHICH INTERFERE WITH IMPROVEMENTS REQUIRED TO BE CONSTRUCTED UNDER THIS CONTRACT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL TELEPHONE COMPANY MANHOLES TO THE FINAL FINISH GRADES AS SHOWN ON THE CONTRACT DRAWINGS.
11. ALL CONCRETE FOR THIS PROJECT SHALL USE TYPE V CEMENT.
12. ALL SITE GRADING WORK SHALL BE IN STRICT ACCORDANCE WITH THE SOILS REPORT FOR THE SITE. ALL WORK SHALL BE PERFORMED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL SOILS ENGINEER.
13. SLOPES STEEPER THAN 4:1 AND FINE-GRAINED MATERIALS THAT HAVE BEEN DISTURBED (SANDY AND SILTY MATERIALS), SHOULD BE PROTECTED WITH BURLAP AND OTHER EROSION CONTROL FABRIC/MATERIAL, UNLESS OTHERWISE SPECIFIED BY THE LANDSCAPE DRAWINGS AND SPECIFICATIONS, OR THE SOILS REPORT.
14. CONTRACTOR SHALL DETERMINE HIS OWN FOOTING OR BASEMENT EXCAVATION QUANTITIES, EVEN THOUGH SHOWN ON ROUGH GRADING PLANS.

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE, 702-455-4610. YOUR 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 THE CLARK COUNTY INSPECTOR.
3. CURB AND GUTTER WITH A GRADE OF 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 1/2 ONE-HALF INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).
5. ALL OFF-SITE 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 PERSONS LIST "QPL" FOR LUMINAIRES. QPL CAN BE FOUND AT
[HTTP://WWW.CLARKCOUNTYNV.GOV/PUBLIC-WORKS/PAGES/DEFAULT.ASPX](http://www.clarkcountynv.gov/public-works/PAGES/DEFAULT.ASPX)
6. PRIVATE STREETS, CURB & 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 LOCATION 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 @ (702) 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 CONSTRUCTED AS A TRENCH. NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICH EVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATIONS 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.

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 ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS 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 BMP GUIDANCE MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION 14.12.
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.

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 PAYING 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 PROPOSED CONSTRUCTION. ADVANCE WARNING SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE WORK ZONE AT NEW STREET ENCHANCEMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
3. A. CONSTRUCTION SIGNAGE SUBMITTED AND PAID FOR BY THE CONTRACTOR SHALL CONFORM TO THE NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK – 1986 AND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 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 MARKINGS PRIOR TO THE SIGN POSTING.
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 CONFORM TO THE CLARK COUNTY AREA STANDARDS. ALL SIGNAGE SHALL BE PLACED IN CLARK COUNTY AREA STANDARDS. ALL SIGNAGE SHALL BE PLACED IN CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL BE CLASS V SHEETING.
6. IF A PROPOSED STREET LIGHT STAND 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 STAND.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CLARK COUNTY TRAFFIC MANAGEMENT DIVISION ALL 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 A123.
9. ALL TRAFFIC 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 DIVISION FOR PRODUCTS LIST AND LED LUMINAIRE MANUFACTURERS. QPL CAN BE FOUND AT http://WWW.CLARKCOUNTY.NV.GOV/PRODUCTS_LIST/PAGES/DEFAULT.ASP
10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: STREET LIGHTING, TRAFFIC SIGNALS, AND FIREWALL AND ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.) INTERCONNECT CABLE. YOU MUST CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 702-455-6000 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION OF THE PROJECT. IF YOU ARE NOT SURE OF THE LOCATION OF ANY FACILITY (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RESOLVE YOU OF LIABILITY FOR CLARK COUNTY FACILITIES.
11. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT CABLE WIRE. 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 NOTED MUST BE REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. \$2,500 PER DAY. F.A.S.T. WILL BE ADVISED OF ANY DAMAGE TO THE CABLE AND WILL BE RESPONSIBLE FOR REPAIRS.
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-BLOCK, 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. WHEN STREETLIGHTS ARE TO BE CONNECTED TO AN EXISTING CIRCUIT, THE ENGINEER MUST CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF SUPPORTING THE ADDITIONAL LOAD.
15. CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES WHICH HAVE A "STIRPED" APPEARANCE.
16. 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.
17. THREE (3) NORMAL WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATIONS) 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.

LVVWD PROJECT # 135700

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 # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO THE 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 EDITION OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED, AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FORM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH U.D.A.C.S. 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 PRE-APPROVED MANUFACTURER'S LISTING FOR THE REPLACEMENT FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON REQUEST.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.
15. 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:

PRODUCT. THE OLD LEASED PRODUCT MAY NOT BE USED.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135700 FIRST APPROVED DATE: 11/13/19

NORTH 00°08'35" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

CLARK COUNTY VERTICAL CONTROL POINT "0LV00 5SEE6", BEING A CITY OF LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB, WEST SIDE OF ISLAND AT DURANGO DR. ±320' NORTH OF FLORINE AVE.

ELEVATION: 2396.78 (FEET)
730.541 (METERS)

CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88)

GENERAL

A. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CLARK COUNTY FIRE CODE AS AMENDED, THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS (UDACS) AS ADOPTED BY CLARK COUNTY AND THE CURRENTLY ADOPTED EDITION OF NFPA 24.

B. FIRE HYDRANTS AND WATER SUPPLIES FOR FIRE PROTECTION SHALL BE INSTALLED, INSPECTED BY FIRE PREVENTION AND IN SERVICE PRIOR TO AND DURING TIME OF CONSTRUCTION IN ACCORDANCE WITH SECTION 3312 OF THE IFC, 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 CDDP PRIOR TO PLACING THE HYDRANT OUT OF SERVICE.

- A. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT EDITION OF UDACs AND THIS GUIDELINE.
- B. MANUFACTURER AND MODEL OF FIRE HYDRANTS SHALL CONFORM TO THE APPROVED MATERIAL LIST OF THE LAS VEGAS VALLEY WATER DISTRICT.
- C. FIRE HYDRANTS SHALL BE INSTALLED WITH THEIR PUMPER OUTLET NOZZLE (STEAMER CONNECTION) FACING THE FIRE ACCESS ROAD, A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE FIRE HYDRANTS.
- D. SHIELDING SHALL BE INSTALLED TO PROTECT THE HYDRANT POSTS (PIPE BOLLARDS) SHALL BE INSTALLED IN ACCORDANCE WITH IFC SECTION 312.
- E. DIAL SHALL BE PAINTED IN BRIGHT YELLOW FOR PUBLIC AND SAFETY RED FOR PRIVATE.
- F. FIRE HYDRANTS SHALL BE LOCATED 4' TO 7' FROM BACK OF CURB.
- G. PAINTING OF CURBS AND/OR ASPHALT AREAS ADJACENT TO HYDRANTS SHALL BE COMPLETED BY THE INSTALLER PRIOR RELEASE TO BOND RELEASE INSPECTION, A COAT OF EXTERIOR INDUSTRIAL GRADE SAFETY RED ENAMEL SHALL BE APPLIED TO A MINIMUM OF 30 FEET, 15 FEET ON EACH SIDE OF THE HYDRANT.
- H. HYDRANT LOCATIONS SHALL BE MARKED BY MEANS OF A BLUE REFLECTIVE PAVEMENT MARKER INSTALLED IN THE DRIVEWAY OR DRIVE.

- A. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED WITHIN 100 FEET OF A FIRE HYDRANT AS MEASURED BY AN APPROVED UNOBSTRUCTED ROUTE.
- B. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED ON THE STREET SIDE OF BUILDINGS, FULLY VISIBLE AND RECOGNIZABLE FROM THE STREET OR NEAREST POINT OF FIRE DEPARTMENT ACCESS (FIRE LANE) OR AS OTHERWISE APPROVED BY THE FIRE CHIEF.
- C. FIRE DEPARTMENT SHALL NOT BE ANY CLOSER THAN 3 FEET TO ANY DOOR OR WINDOW OPENING AND SHALL NOT BE OBSTRUCTED BY TREES, SHRUBS, PARKING SPACES, ETC.

A. UNDERGROUND PIPING SHALL HAVE A MINIMUM WORKING PRESSURE OF 150 PSI. UNDERGROUND PIPING CONNECTED TO A FIRE PUMP OR FIRE DEPARTMENT CONNECTION (FDC) SHALL HAVE A MINIMUM WORKING PRESSURE OF 200 PSI (CLASS 200)

B. FOR PRIVATE FIRE SERVICE MAINS TWO SOURCES OF WATER SUPPLY ARE REQUIRED WHENEVER A MORE FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. WATER SYSTEMS UNDER PURVIEW OF THE CITY OF LAS VEGAS SHALL BE INSTALLED TO MEET THIS REQUIREMENT.

C. FOR PRIVATE FIRE SERVICE MAINS SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR LEAD-INS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. WATER SYSTEMS UNDER PURVIEW OF THE LAS VEGAS FIRE DEPARTMENT SHALL BE INSTALLED TO MEET THIS REQUIREMENT.

D. ALL PIPING AND VALVES SUPPLYING THE FIRE SPRINKLER SYSTEMS SHALL BE PROTECTED FROM FREEZING WHEN EXPOSED TO TEMPERATURES LESS THAN 40 °F. FREEZE PROTECTION SHALL BE APPROVED, DURABLE AND PERMANENT. ALL REQUIRED HYDROSTATIC TESTING AND FLOUSING OF THE PRIVATE FIRE SERVICE MAIN OR UNDERGROUND FIRE SPRINKLER STANDPIPE SHALL BE COMPLETED PRIOR TO THE START OF THE FIRE PROTECTION SYSTEM'S PREVENTION STAFF. THE PIPING JOINTS SHALL BE UNCOVERED. THE INSTALLING CONTRACTOR SHALL FURNISH A "CONTRACTOR'S MATERIAL AND TESTING CERTIFICATE" (CM&T) COUNTERSIGNED BY THE PROPERTY OWNER OR REPRESENTATIVE. THE CM&T SHALL BE FILLED OUT COMPLETELY WITH THE INSPECTOR'S INITIALS, WITNESSING AGENT, DATE, COPY OF THE TESTING REPORT AND HYDROSTATIC TEST REPORT. SIGNATURE SHALL BE ON-SITE AND SIGNED PRIOR TO THE CONNECTION OF THE UNDERGROUND WATER SUPPLY TO THE FIRE SPRINKLER SYSTEM.

A. SHOP DRAWINGS FOR GATES AND MOTORIZED OPENERS OBSTRUCTING FIRE DEPARTMENT ACCESS ROADS SHALL BE SUBMITTED SEPARATELY FOR REVIEW AND RECEIVE APPROVAL PRIOR TO INSTALLATION.

FIRE APPARATUS ACCESS ROADS:

- A. SPEED BUMPS AND/OR SPEED HUMPS SHALL NOT BE PERMITTED WITHIN THE REQUIRED WIDTH OF FIRE APPARATUS ACCESS ROADS.
- B. EXISTING SPEED HUMPS ARE ALLOWED ON PRIVATE FIRE APPARATUS ACCESS ROADS SERVING COMMERCIAL AND INDUSTRIAL BUILDINGS WHEN APPROVED BY THE FIRE CODE OFFICIALS.
- C. FOR GROUP B, DIVISION 3 STRUCTURES AND FOR STRUCTURES CONSTRUCTED IN ACCORDANCE WITH IRC, RADS SERVING A MAXIMUM OF 6 RESIDENCES AND HAVING A MAXIMUM LENGTH OF 150 FEET, AS MEASURED FROM THE INTERSECTION OF THE BACK OF CURB TO THE END OF THE SUB STREET, MAY FRONT ONTO A SUB STREET WITH A MINIMUM WIDTH OF 25 FEET FROM BACK-OF-CURB TO BACK-OF-CURB, PROVIDED THAT ALL RESIDENCES FRONTING ON TO THE SUB STREET ARE PROVIDED WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM AND THAT ON-STREET PARKING IS PROHIBITED.
- D. 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.
- E. EXISTING TEMPORARY ACCESS ROADS SERVING ONLY BUILDINGS UNDER CONSTRUCTION SHALL NOT BE REQUIRED TO BE PAVED.

CLARK COUNTY FIRE DEPARTMENT *E. Kaminski* 10-23-19
FD19-05749 DATE

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY PROVISIONS OF THE STATE, COUNTY LAWS AND/OR SPECIFICATIONS.

FIRE FLOW : 1500 GPM AT 20 PSI

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND T-877-860-6020
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS. ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY THE CITY OF DENVER AND/OR MULTIPLE AGENCIES.
3. FOR VALVE ADJUSTMENT CONTACT 724-668-0171 48 HOURS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND STRUCTURES CONTACT 724-365-2099


SOUTHWEST GAS CORPORATION

10/28/19
DATE

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

ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

Call before you Dig
 AVOID CUTTING UNDERGROUND
 UTILITY LINES. IT'S COSTLY.

Call
811
 OR
 1-800-227-2600

FAST

Call
 before you
 Underground
 1-702-432-5300

FREEWAY AND AIRPORT
 SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD
 POWER LINES. IT'S COSTLY.

CALL BEFORE
 YOU DO
 OVERHEAD

1-702-227-2929

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF - SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA"; 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 STANDARD 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 RESEARCH OF THE AVAILABLE RECORDS, EXISTING UTILITIES AS SHOWN FROM CITY PLANS ARE ONLY 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 COSTS AND LIABILITIES IN CONNECTION THERETO.
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 SATISFACTORILY 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 CONCRETE SHALL BE USED IN ALL CURBS, SIDEWALKS, CONCRETE WALK, CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANDED JOINTS REQUIRED, MAXIMUM SPACING 16' IN EXTRUDABLE CURBS. CURB AS PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE TOP OF CURB. GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
8. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
9. SIDEWALKS TRANSDUCED TO THE QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
10. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PAPER DRAINAGE AND FOR CURBS AND EGDS TO MEET NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
11. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY

12. 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 APPROACHES, FLOWLINES, AND GROUND 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 EVALUATING 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 INSTALL ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RISERS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
 19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR LOS ANGELES COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE 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 DEES HAVE BEEN PROPERLY 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 MAINS AND STORM DRAIN MAINS, MANHOLE TRANSITION STATIONS, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY. SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS, 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 LICENSED PROFESSIONAL ENGINEER AND SURVEYOR. HAVE POINTS 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). CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM MAINS. THE CITY ENGINEER SHALL BE REQUIRED TO PERFORM THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
 22. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISÉ 06/04/2018

WATER QUANTITIES		PRIVATE	PUBLIC
8" FIRE HYDRANT ASSEMBLY			7 EA
8" PVC WATERMAIN			1,420 LF
8" PVC WATERMAIN			439 LF
8" GATE VALVE			5 EA
3/4" DOM. METER			49 EA
8"x6" REDUCER			4 EA
8" CAP WITH 2" BLOW OFF ASSEMBLY			1 EA
6" CAP WITH 2" BLOW OFF ASSEMBLY			4 EA
6" WATER LATERAL			49 EA
1" METER W/ 1" RPPA			2 EA

8" C-900 PVC SEWER MAIN	-----	124 LF
8" SDR-35 PVC SEWER MAIN	-----	4,049 LF
4" C-900 PVC SEWER LATERAL	-----	171 LF
4" SDR-35 PVC SEWER LATERAL	-----	1,102 LF
48"Ø MANHOLE	-----	15 EA

2" TYPE CURB AND GUTTER		2037 SF
2" RT TYPE CURB & GUTTER	3,362 LF	
4" CONC. SIDEWALK		9,079 SF
2" AC PAVEMENT	6,713 SY	13,571 SY
3" AC PAVEMENT		
5" AC PAVEMENT		
TYPE II AGGREGATE BASE	87 CY	8,622 SY
CONCRETE VALLEY GUTTER		
TRAFFIC SIGNS		307 SF
ADA RAMP		6 EA
STREETLIGHT		5 EA
STREETLIGHT CONDUIT		17 EA
FAST CONDUIT	1,110 LF	2,243 LF
PULLBOX #3		1,000 LF
PAVEMENT STRIPING - ARTERIAL		5 EA
8 INCH WIDE WHITE PAINTED LINE		2405 LF
		1387 LF

18" RCP STORM DRAIN_____	178 LF
TYPE "C" DROP INLET_____	3 EA
NDOT TYPE 2 INLET_____	1 EA

NOTE: THESE QUANTITIES ARE ONLY ESTIMATES.
CONTRACTOR TO VERIFY.

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF ANY CHANGES TO THE SPECIFICATIONS.

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

CHURNS 18" OR 24" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

POLYVNYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.

ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS, STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.

CONNECTIONS TO EXISTING MAIN LINES UP TO TWELVE (12") DIAMETER, CONNECTIONS TO FIFTEEN (15') OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES, IN LINE "Y" SHALL BE USED ON LINES TWELVE (12") OR ABOVE.

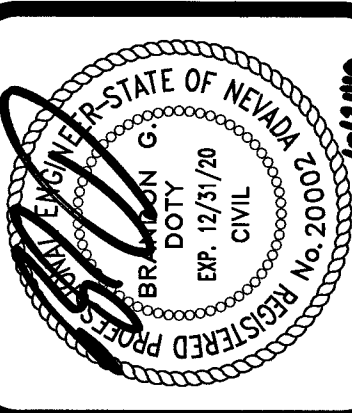
WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.

ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.

ALL LAS VEGAS WILL NOT ACCEPT ANY CONSTRUCTION WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1') OF ONE FOOT FROM APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.

INSTALLATION OF PIPE FOR SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

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BLDG. 4 STE. #422
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Office: 702.456.2254
Fax: 702.456.2254
Email: MAIL@ADVANTAGECIVIL-NV.COM
CONSULTING
CIVIL ENGINEERING
PLANNING



DURANGO & HICKAM
BY D.R. HORTON

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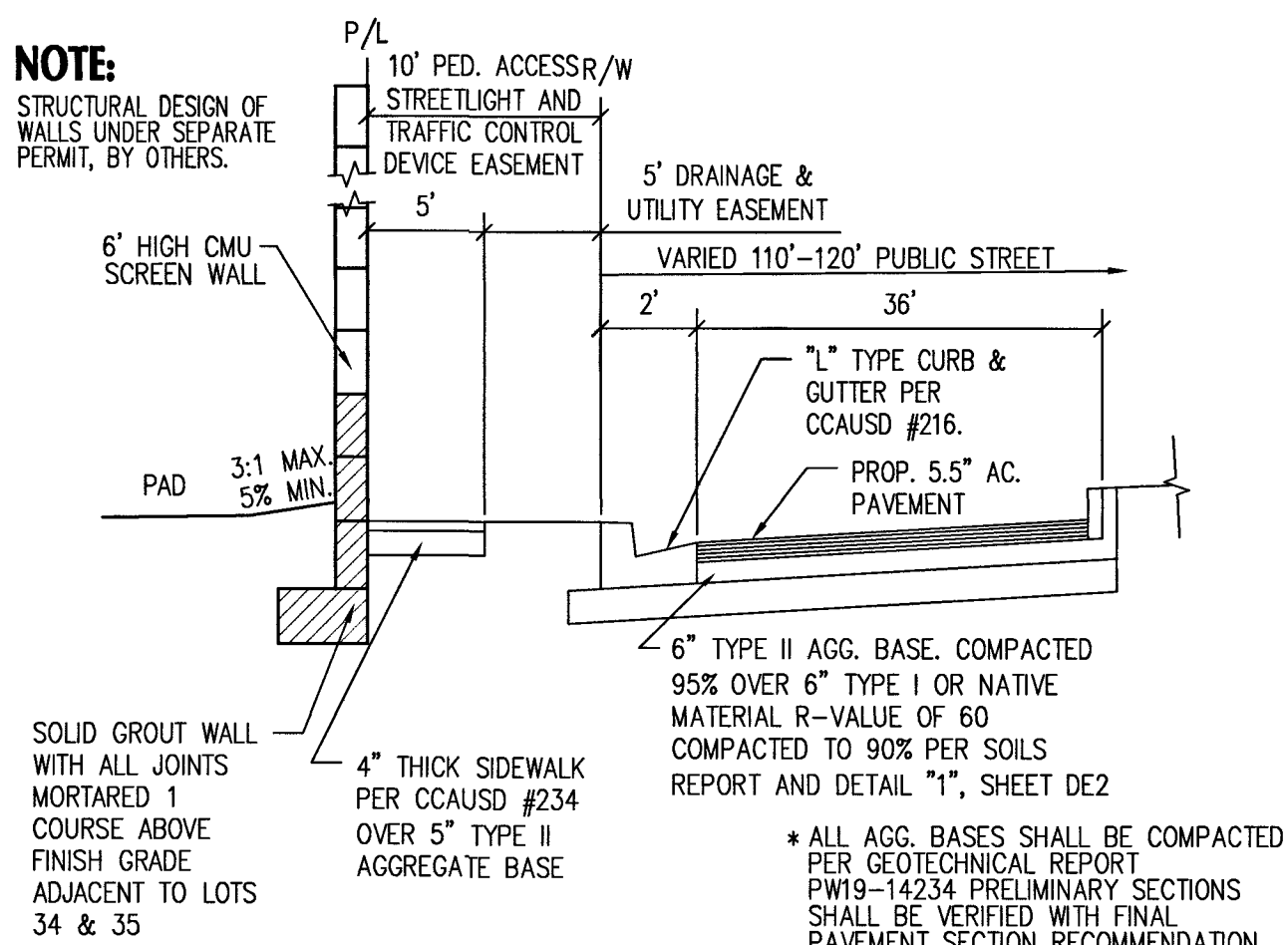
STRUCTURAL DESIGN OF
WALLS UNDER SEPARATE
PERMIT, BY OTHERS.



NOTE:
FOR FOOTING DESIGN AND
REINFORCEMENT, REFER
TO STRUCTURAL PLANS.

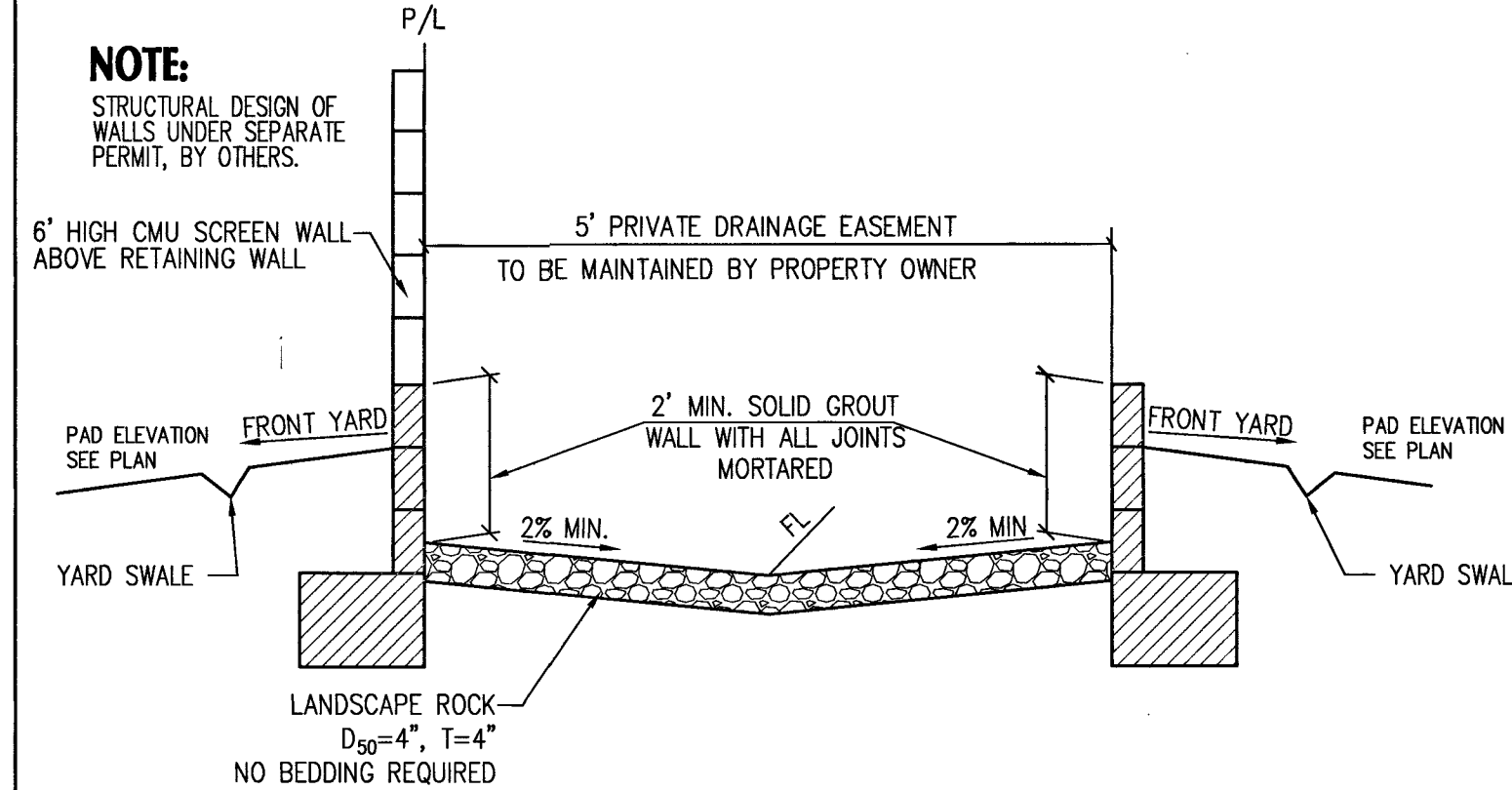


NOTE:
STRUCTURAL DESIGN OF
WALLS UNDER SEPARATE
PERMIT, BY OTHERS.



Q **PROPERTY LINE SECTION**
NOT TO SCALE

NOTE:
STRUCTURAL DESIGN OF
WALLS UNDER SEPARATE
PERMIT, BY OTHERS.



PROPERTY LINE SECTION
NOT TO SCALE

5' PRIVATE DRAINAGE EASEMENT
TO BE MAINTAINED BY PROPERTY OWNER

PL

FRONT YARD 1% MIN

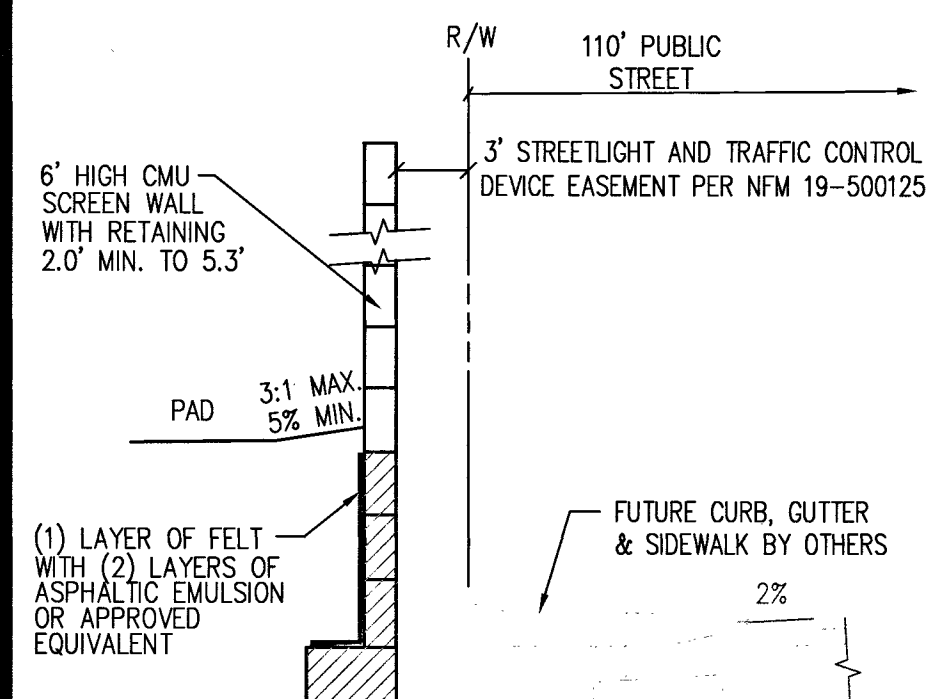
2% MIN.

2% MIN.

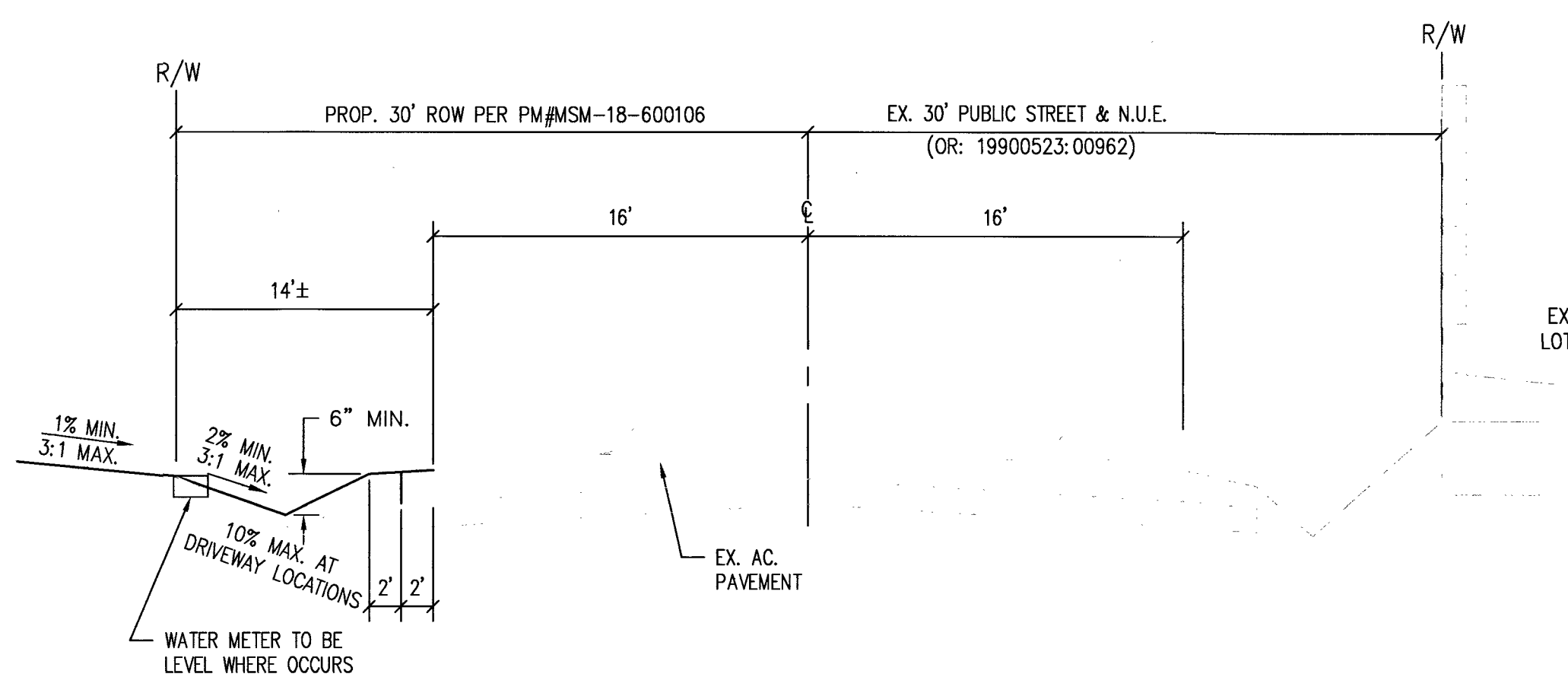
FRONT YARD 1% MIN

LANDSCAPE ROCK
D₉₀=4", T=4"
NO BEDDING REQUIRED

PROPERTY LINE SECTION
NOT TO SCALE

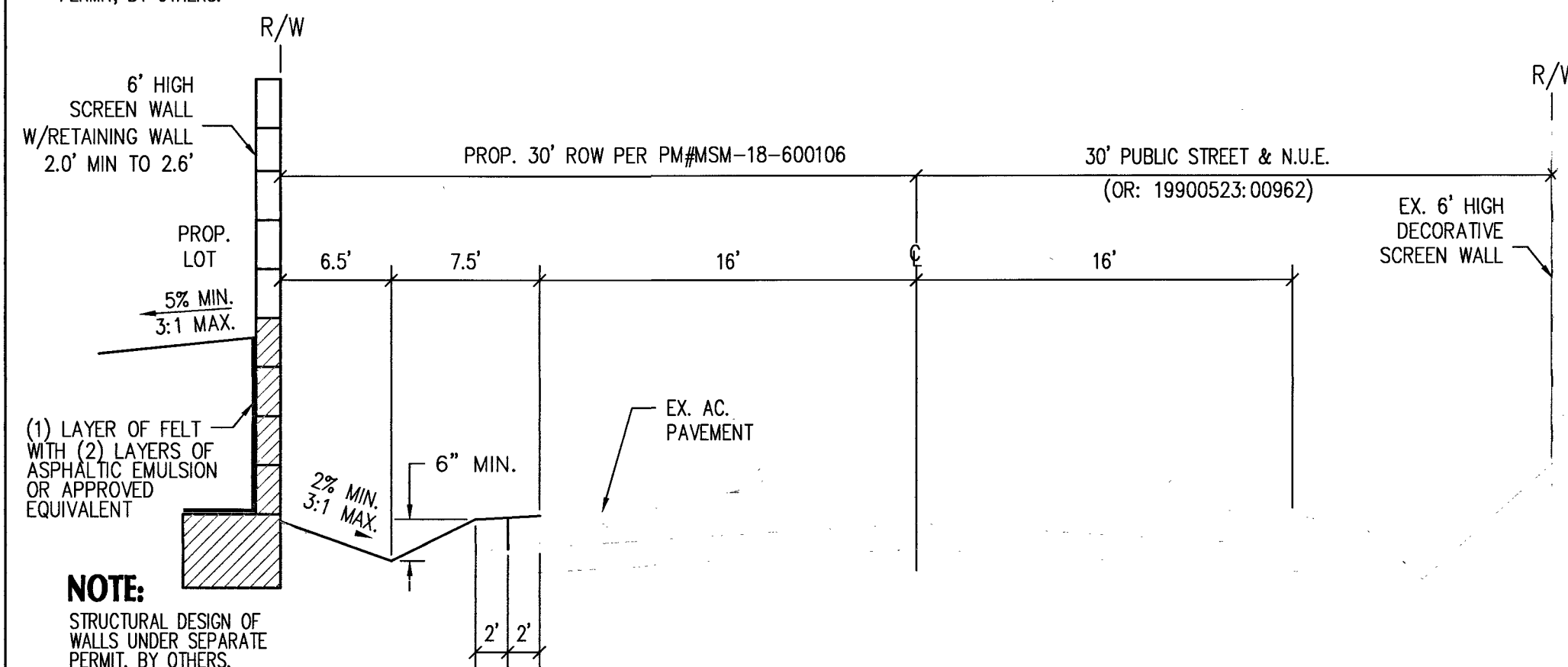


T **PROPERTY LINE SECTION**
NOT TO SCALE



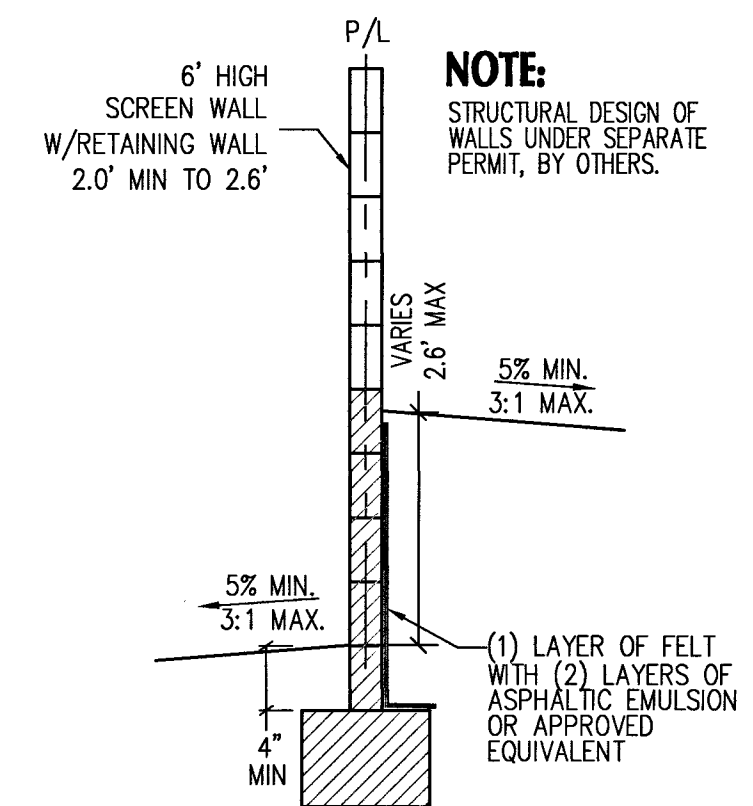
U 60' PUBLIC STREET (BUTLER ST.)
NOT TO SCALE

NOTE:
STRUCTURAL DESIGN OF
WALLS UNDER SEPARATE
PERMIT, BY OTHERS.

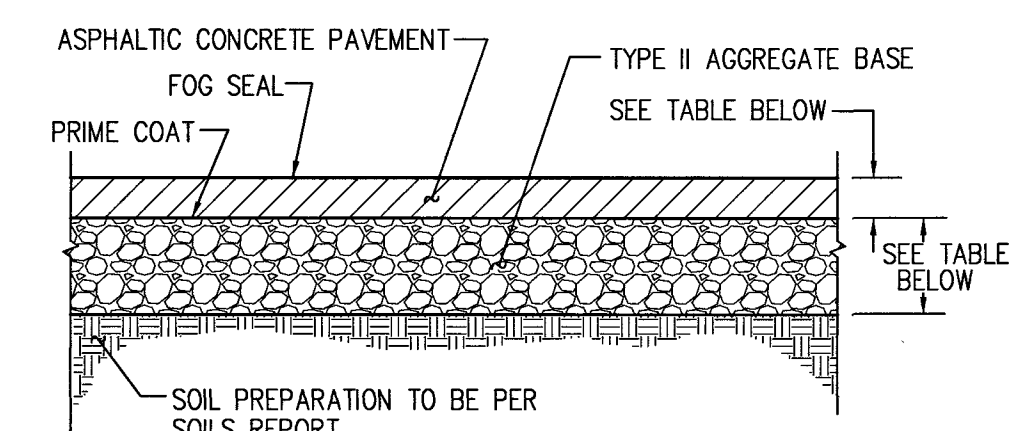


NOTE: STRUCTURAL DESIGN OF WALLS UNDER SEPARATE PERMIT, BY OTHERS.

60' PUBLIC STREET (BUTLER ST.)

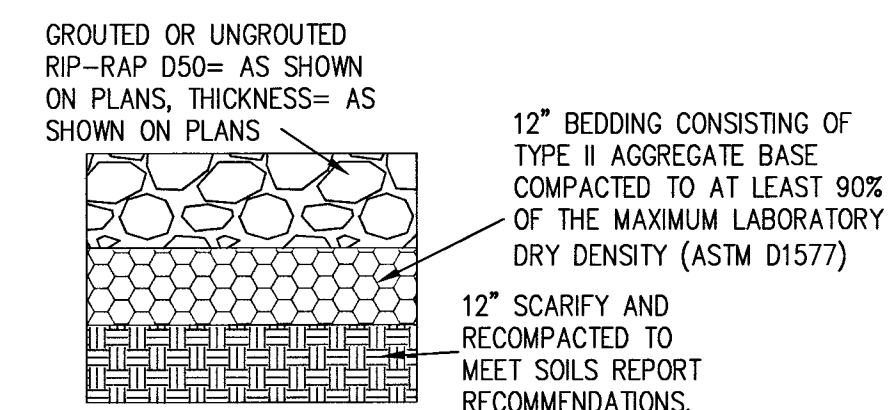


Y PROPERTY LINE SECTION

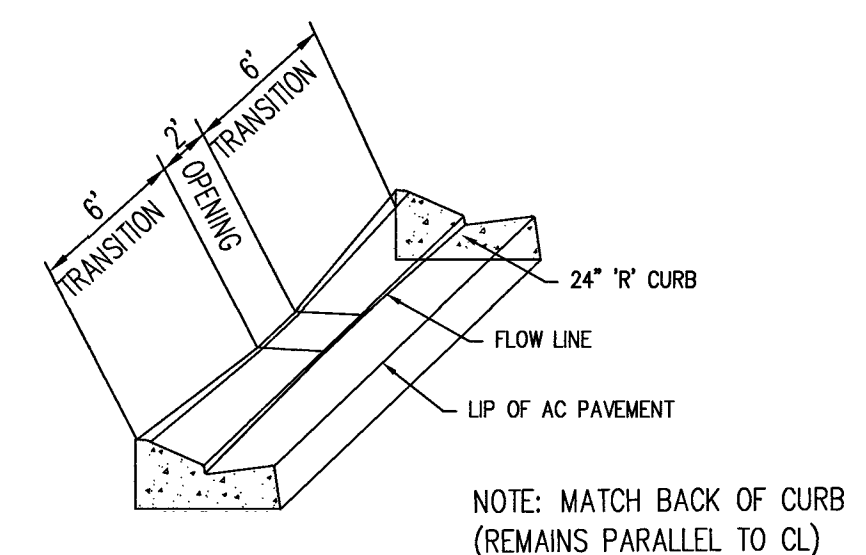


* ALL AGG. BASES SHALL BE COMPACTED PER GEOTECHNICAL REPORT PW19-14234 PRELIMINARY SECTIONS SHALL BE VERIFIED WITH FINAL PAVEMENT SECTION RECOMMENDATION REPORT (MPRS) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTION ARE DIFFERENT, A REVISION TO IMPROVEMENT PLANS WILL BE REQUIRED.

1 PAVING SECTION
NOT TO SCALE



2 RIP RAP SECTION
NOT TO SCALE



3 CURB OPENING

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.
CALL BEFORE
YOU DO
OVERHEAD



1-702-227-2929

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811

OR
1-800-227-2600

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135700 FIRST APPROVED DATE: 11/13/19

PW19-12332	
L 19-01110	307v1178

DETAIL SHEET 2

DURANGO & HICKORY

BY D.R. HORTON

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY.
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HENDERSON, NEVADA 89014

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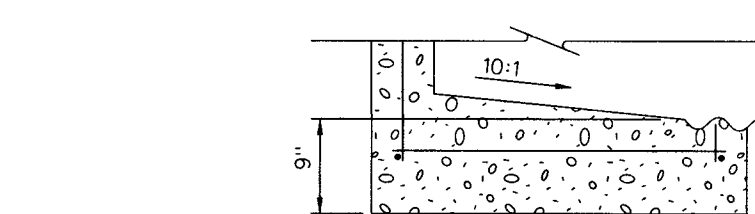
CIVIL ENGINEERING CONSULTING PLANNING

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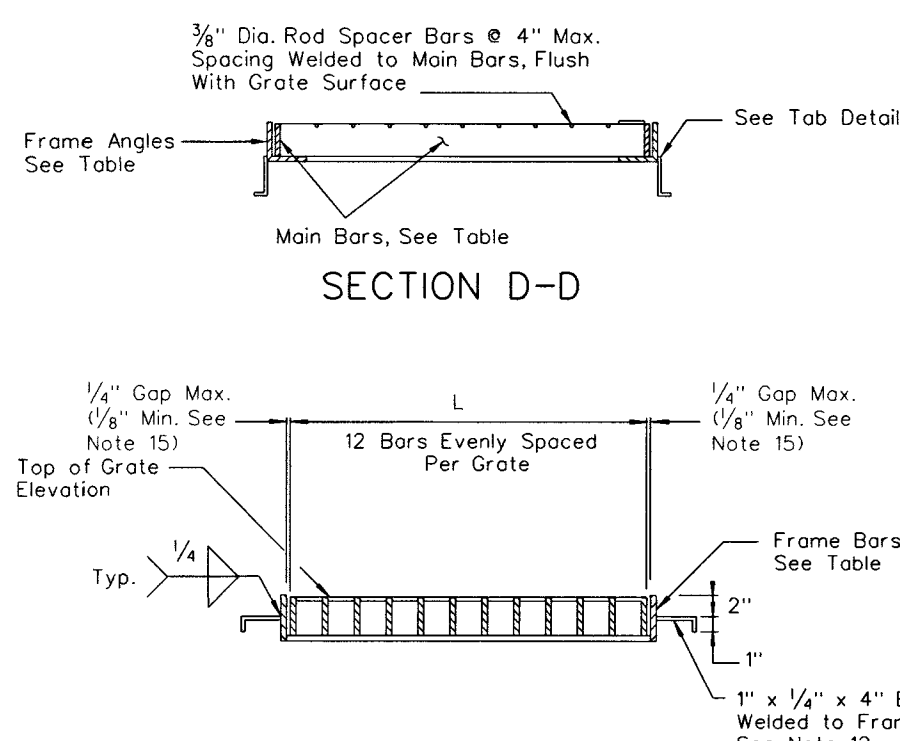
Table with 12 columns: PIPE SIZE (INCH), SINGLE (ONE GRATE) CONCRETE (CY), REIN. (LB.), ADD. RATE (CY/FT), DOUBLE (TWO GRATES) CONCRETE (CY), REIN. (LB.), ADD. RATE (CY/FT), TRIPLE (THREE GRATES) CONCRETE (CY), REIN. (LB.), ADD. RATE (CY/FT), STR. STEEL (LB.), and STR. STEEL (LB.). Rows include pipe sizes from 15 to 48 inches.

•The Concrete And Reinforcing Quantities Are Based On The H Min. Shown. Increase The Concrete And Reinforcing Base Quantity By The Corresponding Add Rate (Per Foot Of Increased H) If The H Specified Is Larger Than H Min.

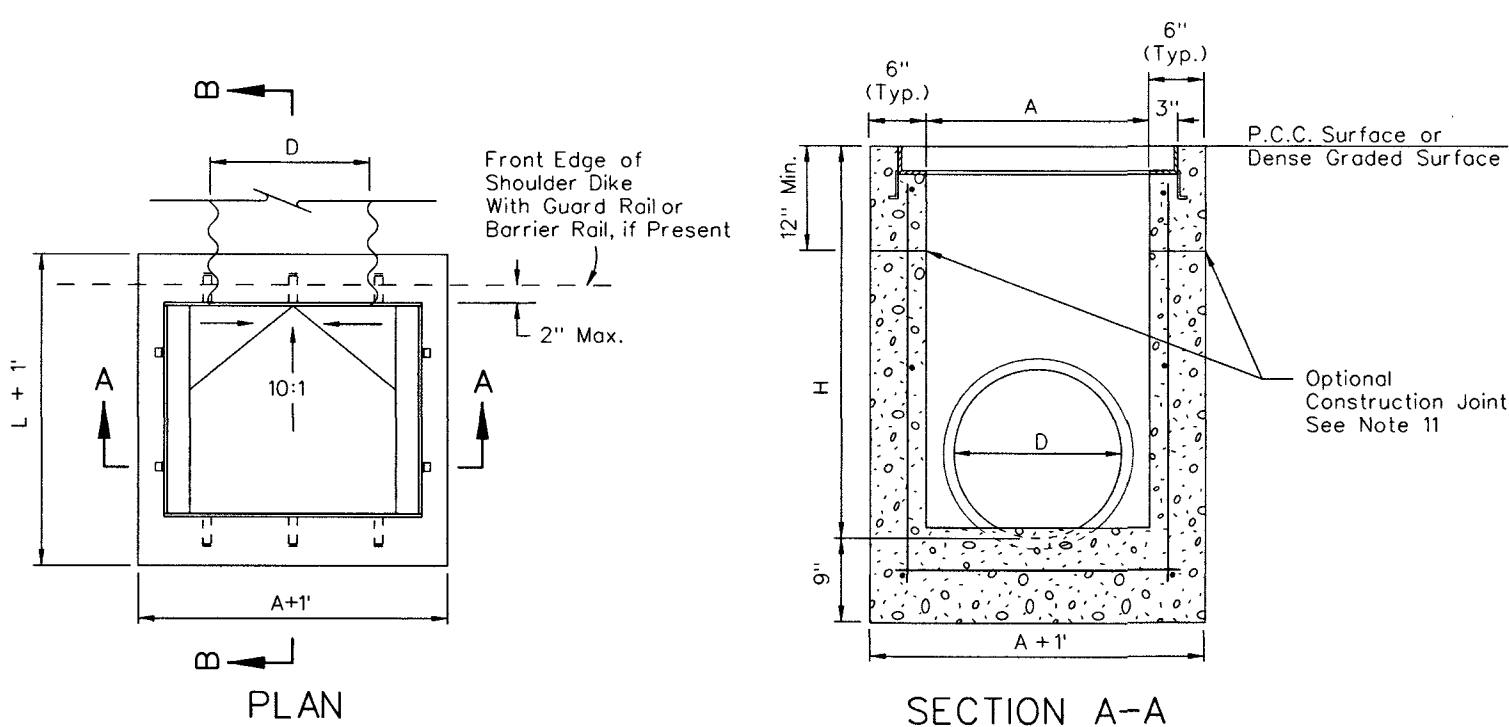
Table with 10 columns: PIPE SIZE (INCH), A, H Min. (FT), MAIN BARS (INCH), FRAME ANGLES (INCH), FRAME BARS (INCH), SINGLE GRATE, DOUBLE GRATE, and TRIPLE GRATE. Rows include pipe sizes from 15 to 48 inches.



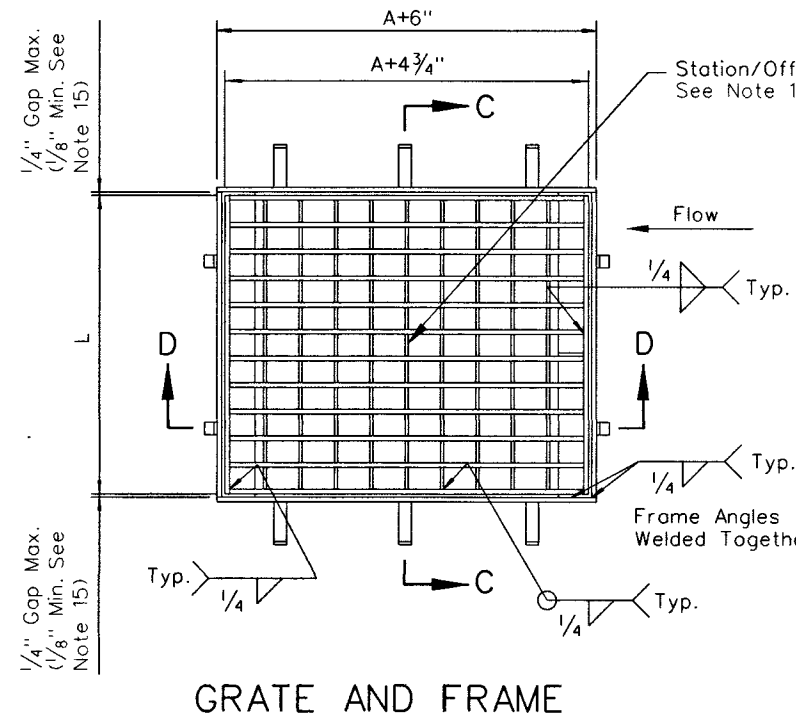
SECTION B-B



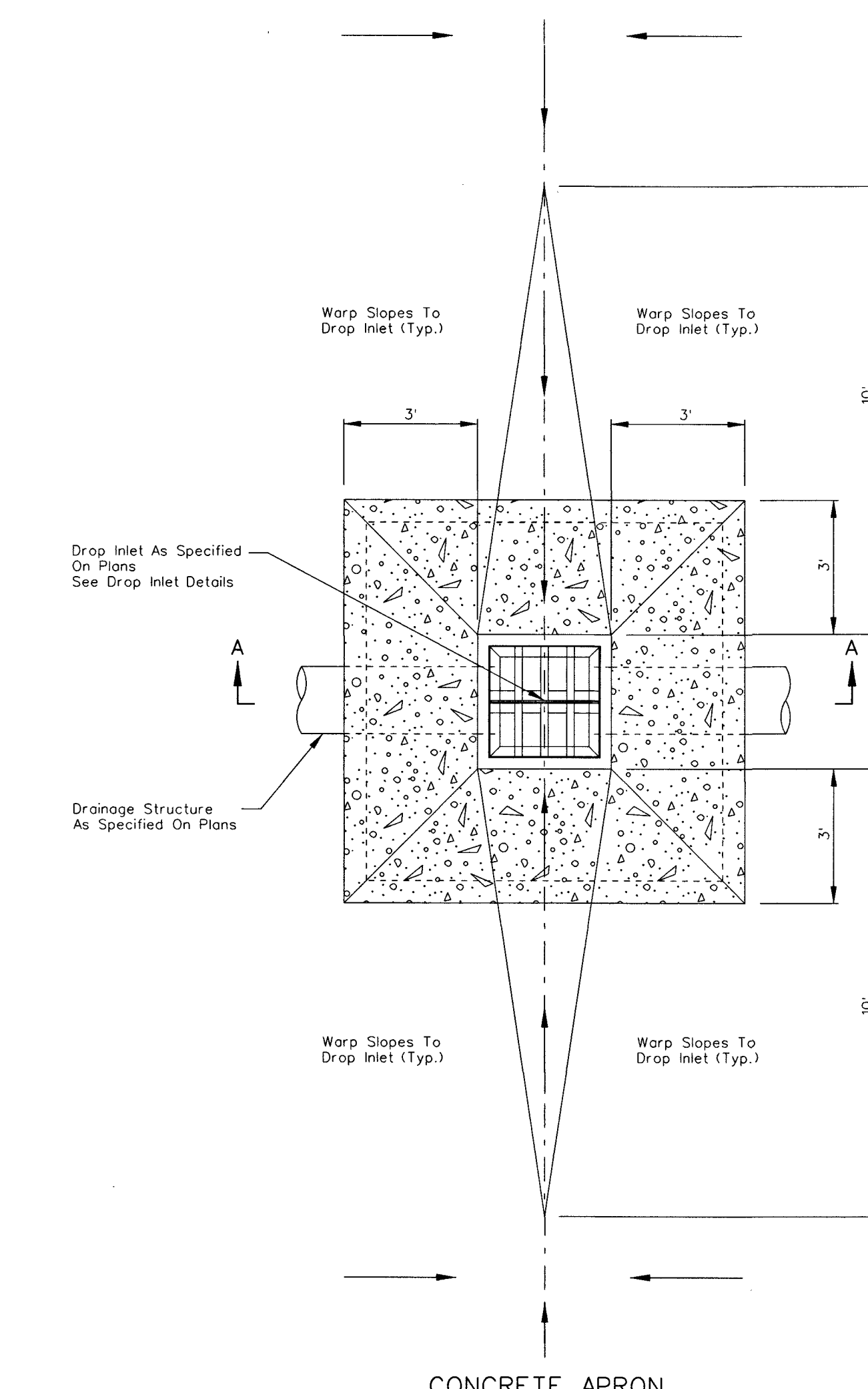
SECTION C-C



SECTION A-A



GRATE AND FRAME



CONCRETE APRON

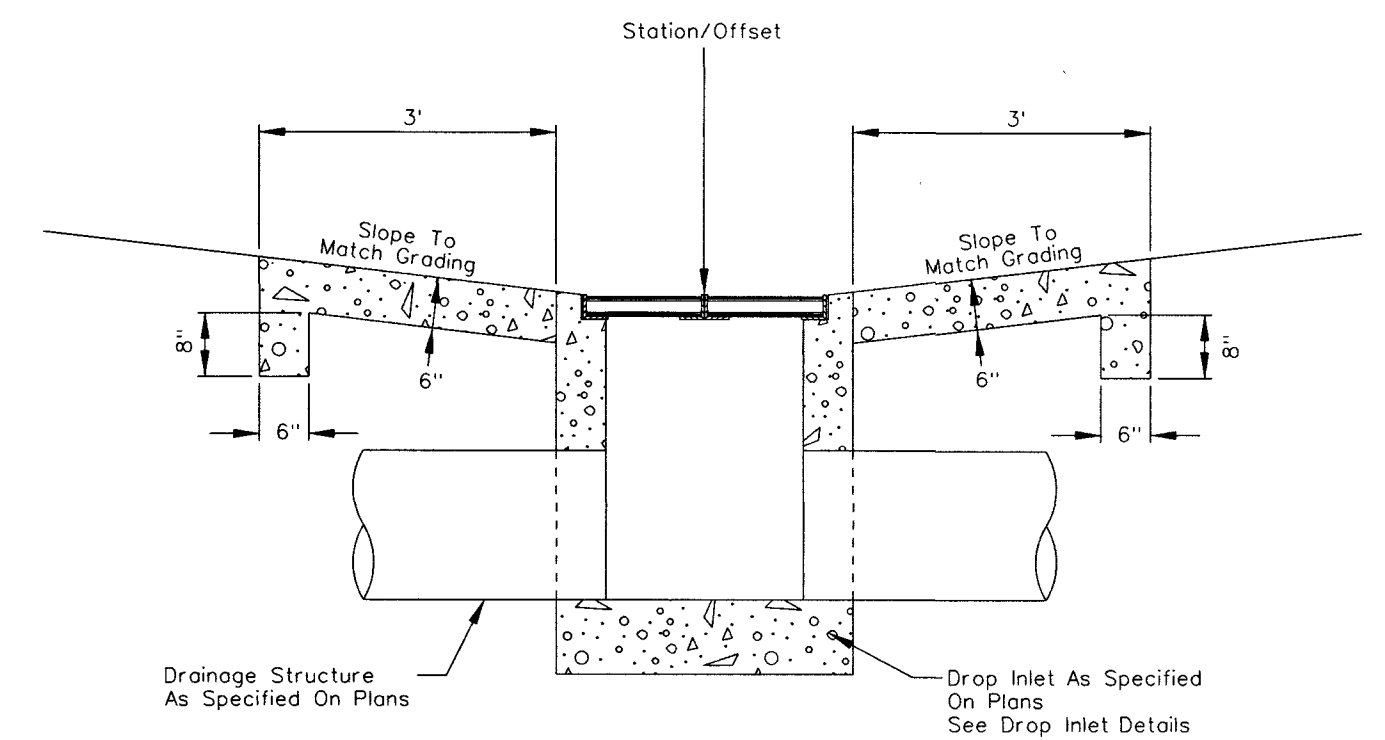
- NOTES:
- All concrete shall be class A or AA.
 - Reinforcing steel shall be No. 4 bars with maximum spacing at 18 inch centers, wired tightly at all intersections and embedded 2 inches clear of all concrete surfaces.
 - Exposed edges of concrete shall be chamfered 1 inch.
 - Dimensions may be varied to fit local conditions if ordered by the engineer.
 - Commercial prefabricated gratings approved by the bridge division may be used in lieu of the field-welded grating shown.
 - Extreme low cover situations to be reviewed by hydraulics engineer.
 - Slope catch basin floors 10:1 from all directions toward outlet pipe. If basin is used as a junction, slope flow line(s) to outlet pipe and provide a 10:1 slope to flow line(s).
 - See sheet R-2.9.1 for details if connecting HDPE pipe.
 - A single Type 2 drop inlet shall be constructed unless a double or triple is specified.
 - A grate configuration shown for clarity. Outside dimensions of each grate shall measure 2 feet by A+4 1/2".
 - Run rebar continuous thru construction joint. Joint must be a minimum of 3 inches from horizontal bars.
 - Weld one tab on 6" of grate and remaining two tabs 6 inches from edge of frame. Six tabs per inlet, three tabs on each side.
 - Weld tabs 6 inches from edge of frame. Four tabs per grate, two on each side.
 - For multiple grate installations, the station/offset is to the center of the concrete drop inlet structure.
 - Grate is to fit in the frame and be easily removed. If the gap between the grate and frame is greater than 1/4" on each side of the grate, the grate and frame shall be removed and reconstructed to the tolerances specified or, with approval of the engineer, a filler strip up to 1/4" in thickness may be welded flush to the top of the frame to reduce the gap to a maximum of 1/4".
 - Additional pipe penetrations may be placed in any wall. Pipe penetrations are to be to the center of the structure wall unless specified otherwise.

Table with 2 columns: R-4.2.1 (609) and Signed Original On File. Rows include ADOPTEE (11/70) and REVISED (10/15).

DROP INLET TYPE 2

NOTES:

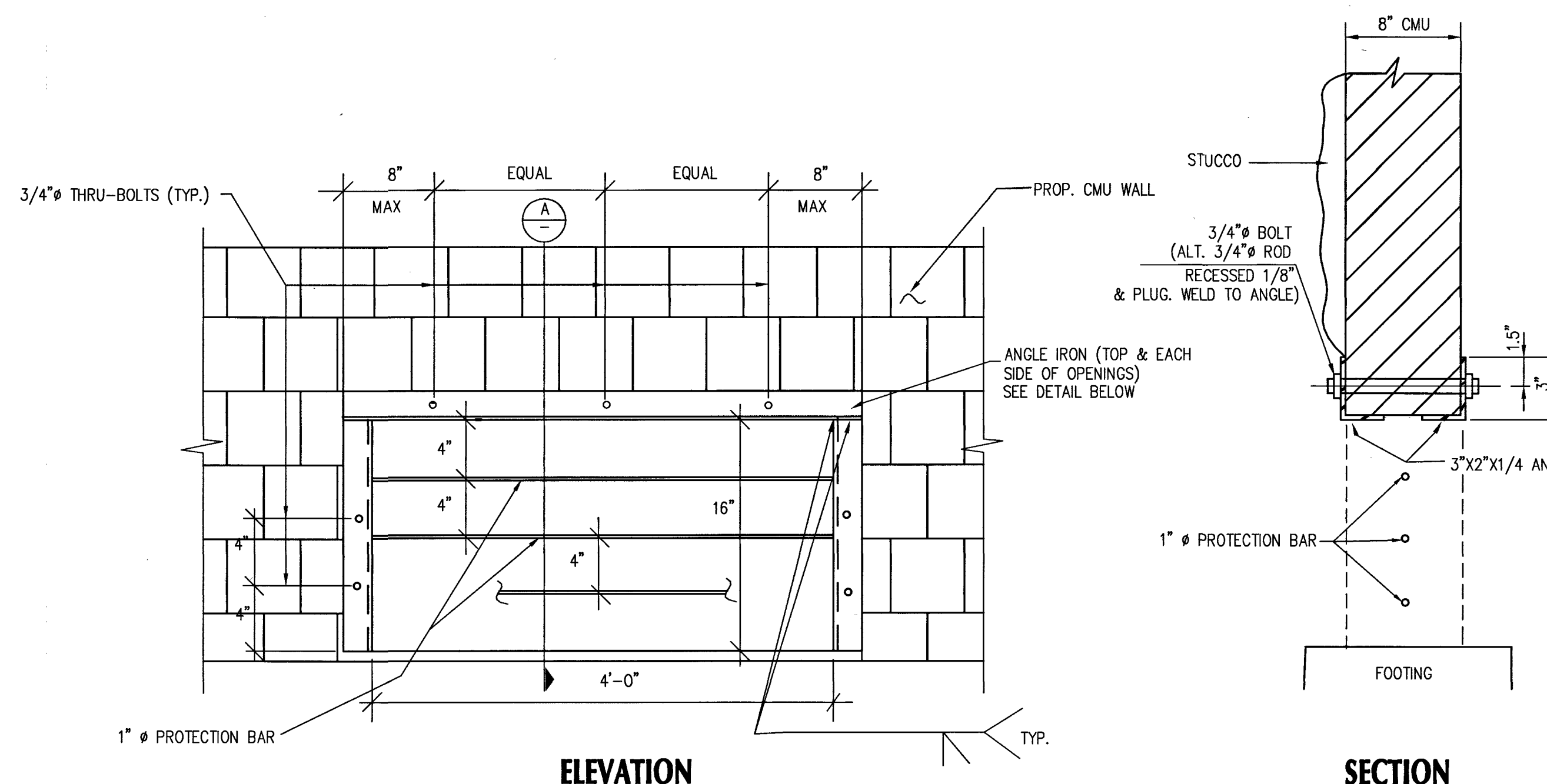
- Concrete shall be class A or AA.



SECTION A-A

Table with 2 columns: R-4.2.7 (609) and Signed Original On File. Rows include ADOPTEE (11/70) and REVISED (10/15).

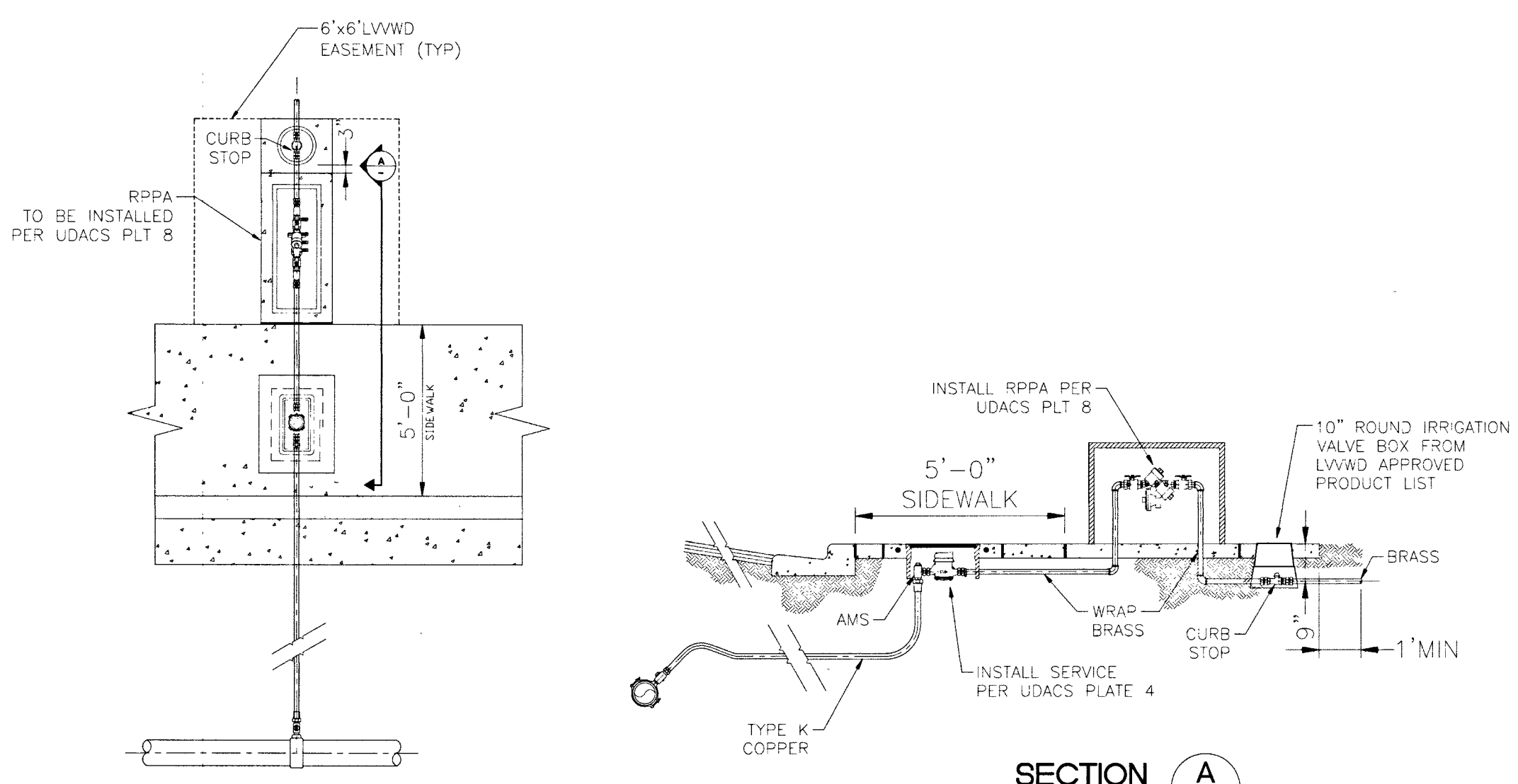
DROP INLET CONCRETE APRON



ELEVATION

SECTION

4 WALL OPENING DETAIL NOT TO SCALE



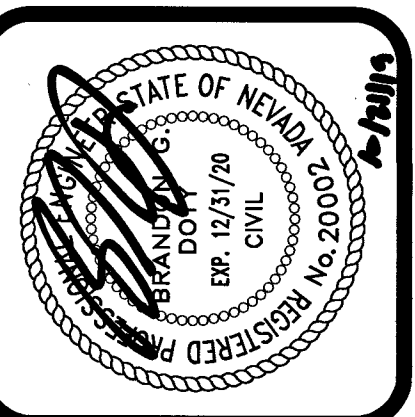
SECTION A

5 IRRIGATION DETAIL NOT TO SCALE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT No. 135700
FIRST APPROVED DATE: 11/13/19

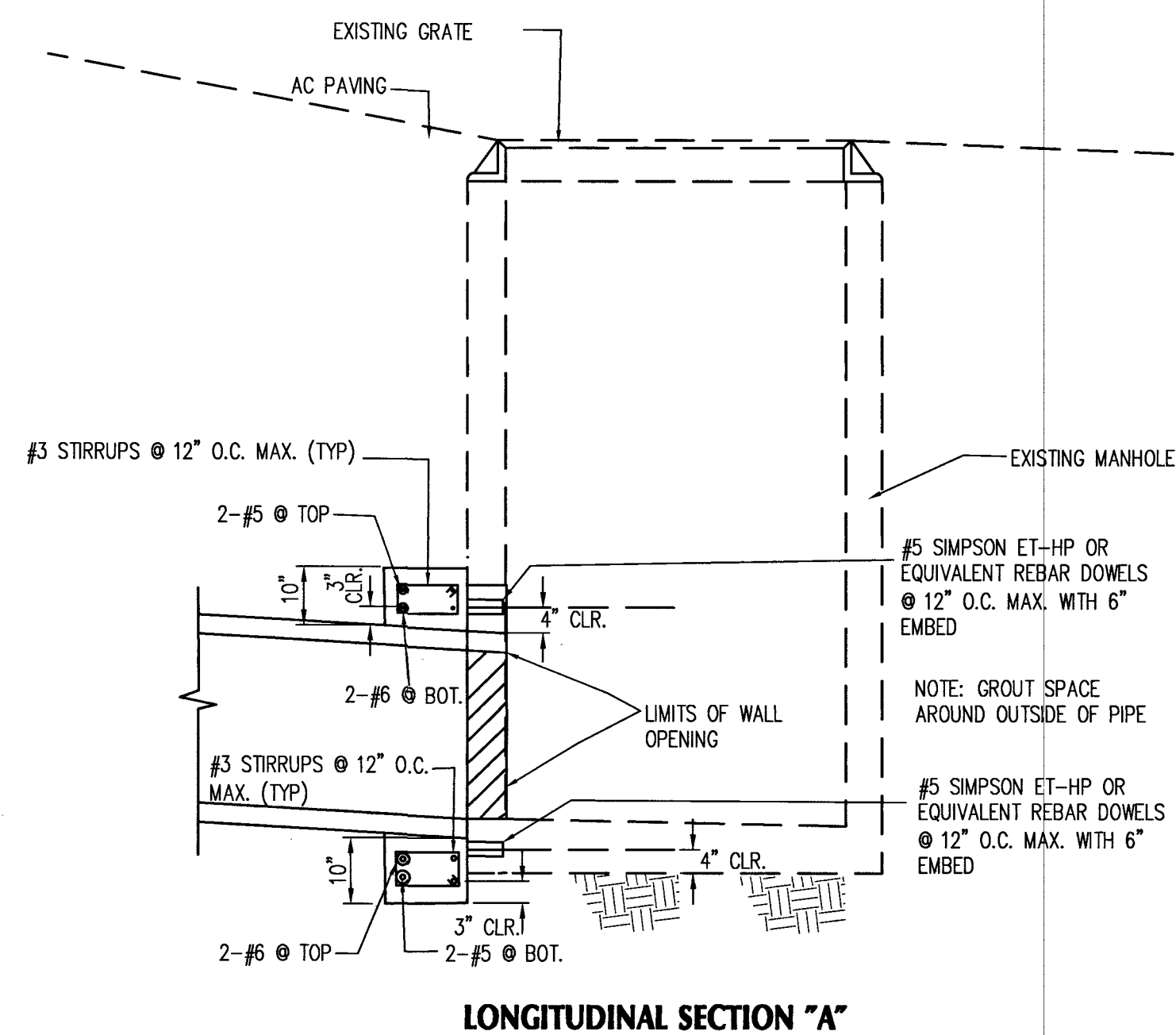
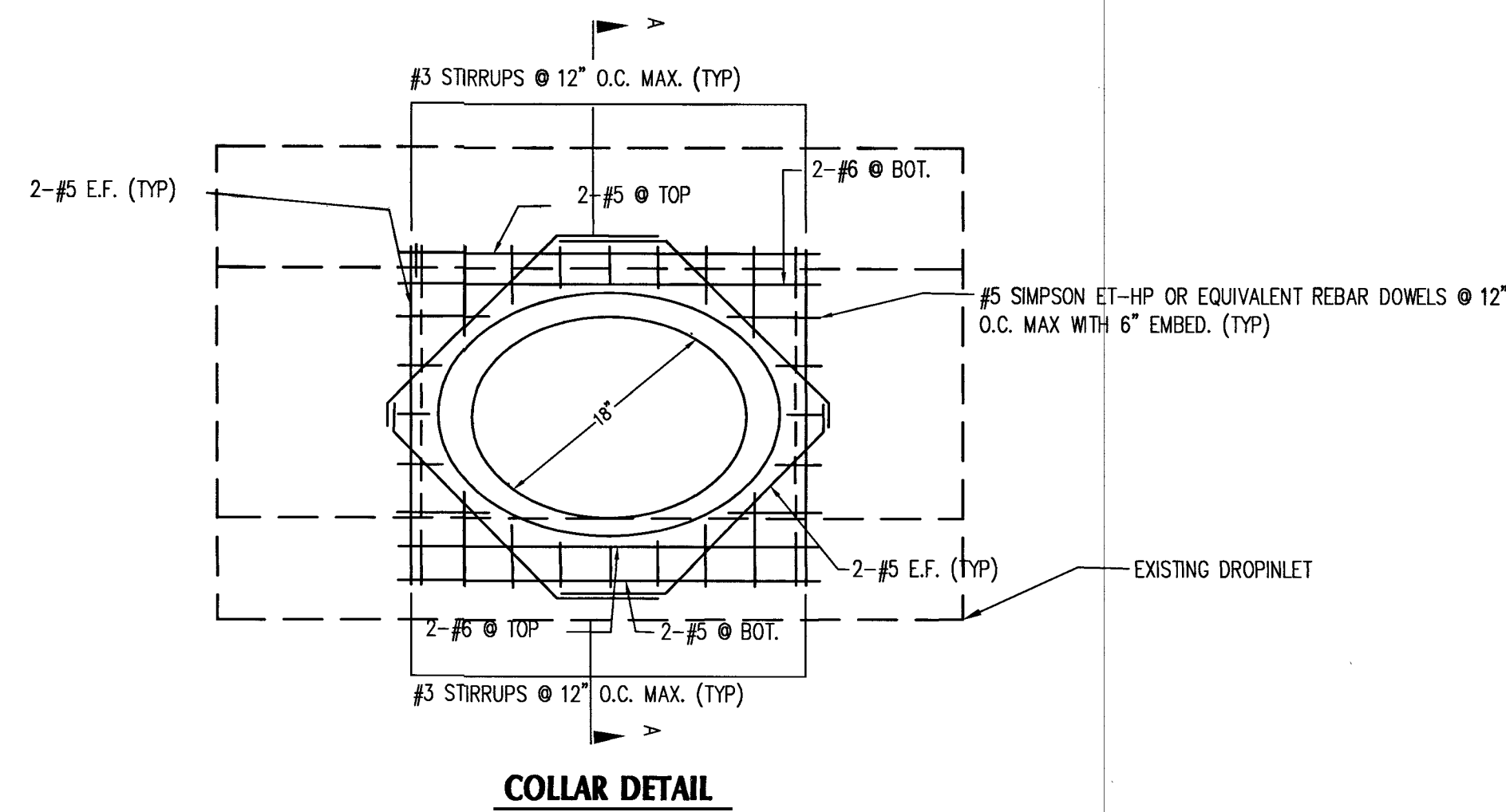
FAST logo and contact information: 1-702-227-2929, 1-702-432-5300, 1-800-227-2600. Includes text: 'Call before you Dig', 'Call before you UnderGround', 'FAST logo', 'Call before you Dig', 'Call before you UnderGround', '1-702-227-2929', '1-702-432-5300', '1-800-227-2600'.

ADVANTAGE CIVIL DESIGN GROUP, LLP
2930 N. GREEN VALLEY PKWY.
BLDG. 4 STE. #422
HENDERSON, NEVADA 89014
Office: 702.432.2294
Fax: 702.432.2294
Email: MAIL@ADVANTAGECIVIL-NE.COM
CONSULTING
PLANNING
CIVIL ENGINEERING

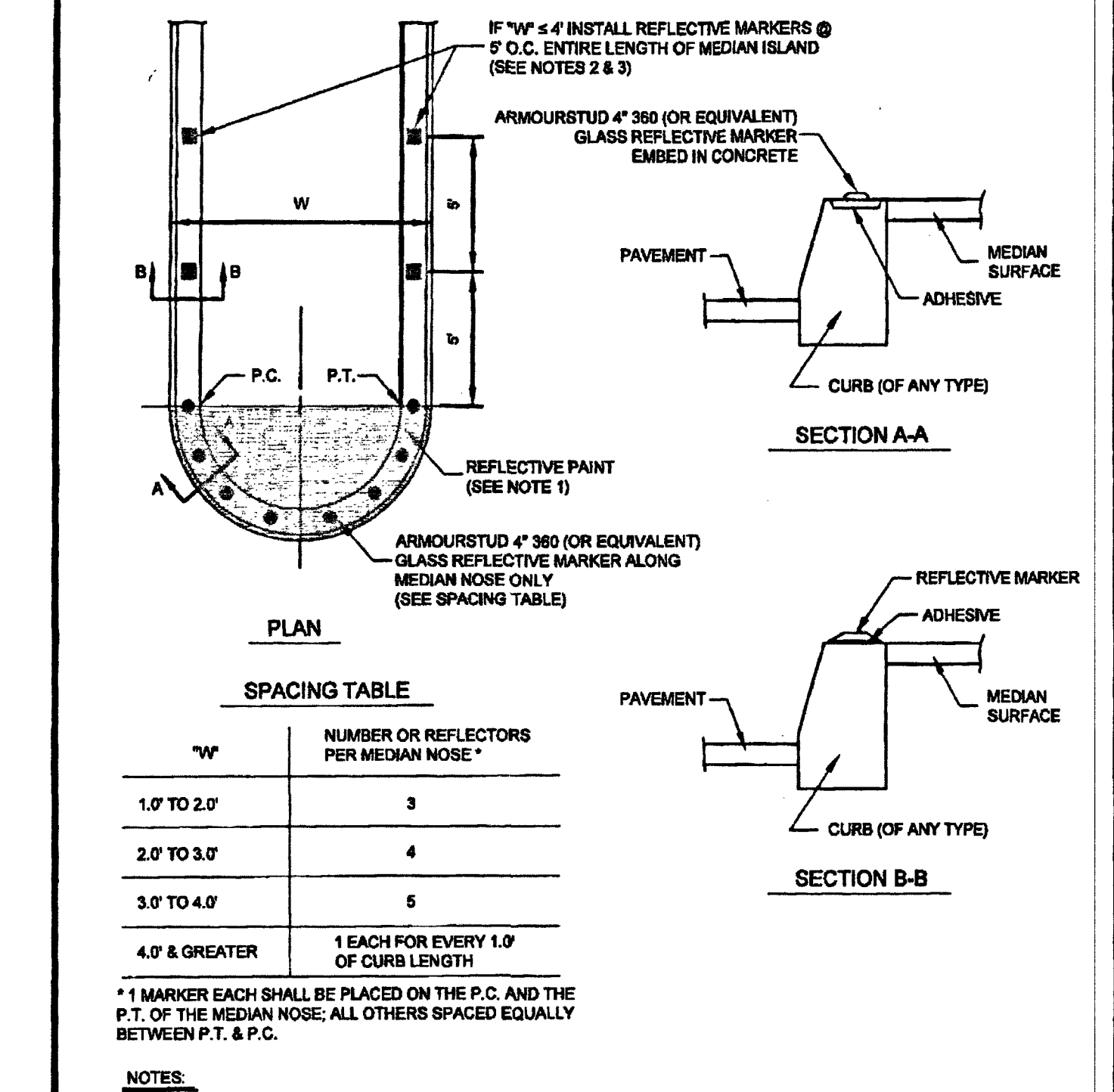


DETAIL SHEET 3
DURANGO & HICKAM
BY D.R. HORTON

Table with 2 columns: NO. and DATE. Rows include JOB NUMBER: 02-050, DRAWN BY: CW, DESIGNED BY: CW, CHECKED BY: BGD, DATE: OCTOBER, 2019.

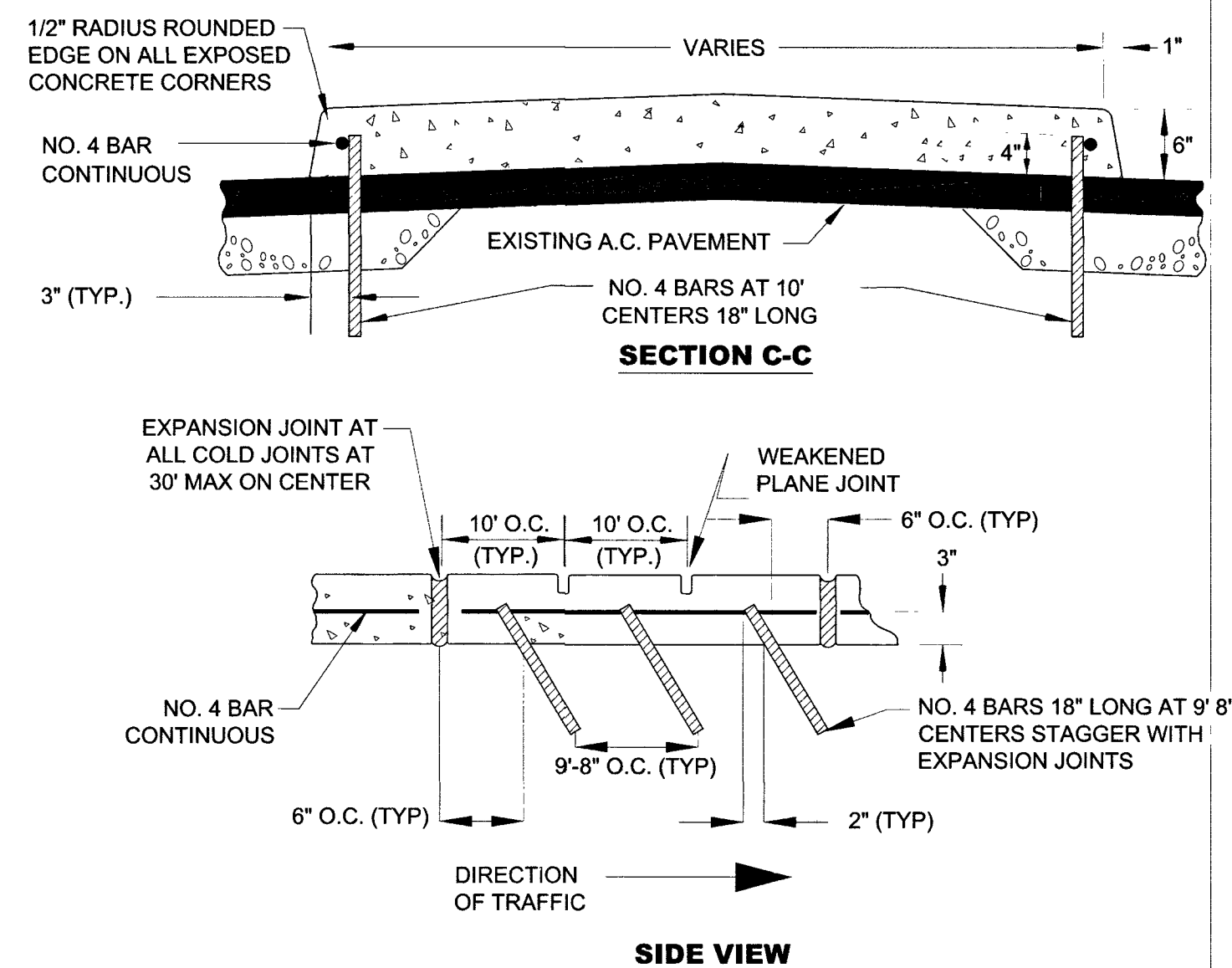


7 EXISTING DROP INLET PIPE PENETRATION DETAIL



SPECIFICATION REFERENCE		CLARK COUNTY PUBLIC WORKS STANDARD DETAIL	
628	PAINTING TRAFFIC STRIPING	MEDIAN ISLAND MARKINGS	
633	REFLECTIVE PAVEMENT MARKERS		

5 MEDIAN ISLAND MARKINGS
NOT TO SCALE



TACK-ON ISLAND DETAIL (NO ADHESIVE)

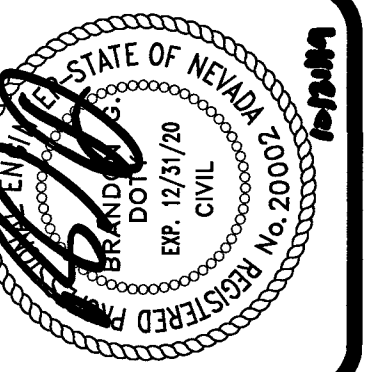
9 TACK-ON DETAIL (NO ADHESIVE)
NOT TO SCALE

PW19-12332	
L 19-01110	307v178

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PARK
SUITE 450E #422
HENDERSON, NEVADA 89014

Office: 702.452.2254
Fax: 702.456.2254
Email: info@advantagcivil-nv.com

CIVIL ENGINEERING CONSULTING PLANNING



DETAIL SHEET 4

DURANGO & HICKMAN

BY D.R. HORTON

[illegible]

PLOT DATE: 10-21-19 PLOT TIME: 13:16:02 DWG PATH: N:\Horton\050 Durango & Hickam\dwg\mp\02-050-DETAILS.dwg

PLOT TIME: 13:16:02

PLOT DATE: 10-21-19

smoya

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.

CALL BEFORE
YOU DO
OVERHEAD

1-702-227-2929

FAST

Call
before you
UnderGround

1-702-432-5300

FREeway and ARTERIAL
SYSTEM OF TRANSPORTATION

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811

OR

1-800-227-2600

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PLOT TIME: 13:16:46



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

Call before you dig
811
1-800-227-2600

SIGHT VISIBILITY NOTE:
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BASIS OF BEARING
NORTH 07°08'35" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT CLARK COUNTY, NEVADA RECORDERS' OFFICE.

BENCHMARK
CLARK COUNTY VERTICAL CONTROL POINT "OLV00 5566" BEING A CITY OF LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB, WEST SIDE OF ISLAND AT DURANGO DR., #320' NORTH OF FLORINE AVE.
ELEVATION: 2396.78 (FEET)
730.541 (METERS)
CLARK COUNTY VERTICAL CONTROL v2003 (REVISED 09/01/2006) BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

NOTE:
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GENERAL NOTES

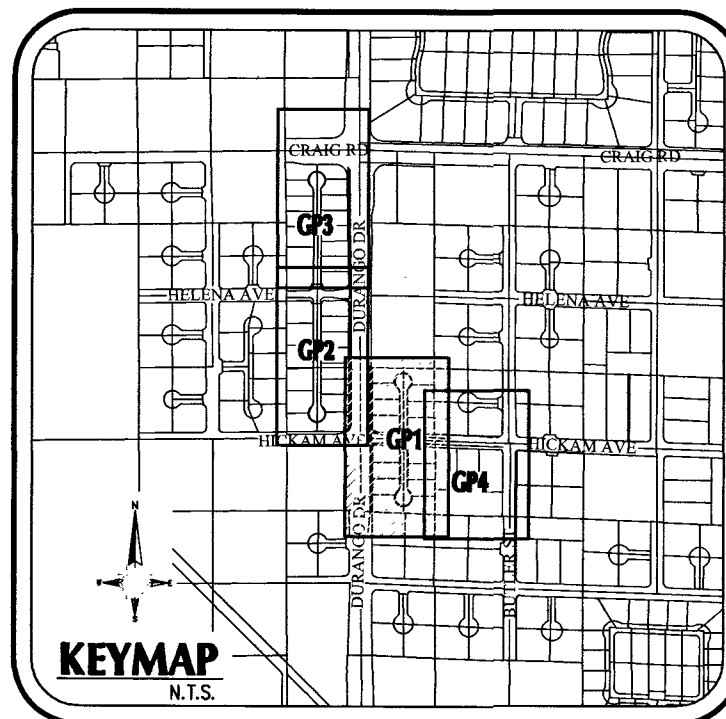
- SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
- CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
FOR SOILS INFORMATION, REFERENCE SOILS STUDY BY GEOTECH RESIDENTIAL, LLC
PROJECT NUMBER: 14190-LVR
DATED: July 1, 2019
- CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
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- ADD 2300' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
- DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

DRAINAGE STRUCTURE TABLE					
STRUCTURE NAME	STRUCTURE DETAILS	DEPTH	CURB OPENING	# GRATES	
*DI #1	TC: 2394.75 INV OUT: 2391.39	DEPTH: 3.36'	4'	1	
*DI #2	TC: 2393.98 INV OUT: 2390.54	DEPTH: 2.94'	4'	1	
*DI #3	TC: 2394.28 INV OUT: 2390.59	DEPTH: 3.19'	4'	1	
*DI #4	GRATE: 2384.50 INV OUT: 2381.50	DEPTH: 3.00'	NA	1	

*STORMWATER INLET CONCRETE STAMP PER CCAUSD DRAWING #421

NOTE:
SECTION II OF THE DRAINAGE COMPLIANCE REPORT REQUIRED FOR LOTS 4, 5, 13, 14, 37 & 38.

FLOOD NOTE:
SITE AREA LIES WITHIN FEMA ZONE "X" PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 2135F, CLARK COUNTY, NEVADA DATED NOVEMBER, 2011. FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)



EARTHWORK VOLUMES:

ONSITE RAW CUT.....11,974 CY
ONSITE RAW FILL.....44,581 CY
ONSITE RAW NET.....32,607 CY IMPORT
TOTAL ONSITE AREA.....15.78 ACRES

OFFSITE RAW CUT.....4,000 CY
OFFSITE RAW FILL.....50 CY
OFFSITE RAW NET.....3,950 CY EXPORT
TOTAL OFFSITE AREA.....1.3 ACRES

THIS QUANTITY OF THE CUT AND FILL QUANTITIES IS PROVIDED AS OBTAINED BY CLARK COUNTY REQUIREMENTS. THIS INFORMATION SHOULD NOT BE USED FOR BIDDING PURPOSES. ALL CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN QUANTITIES.

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

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.

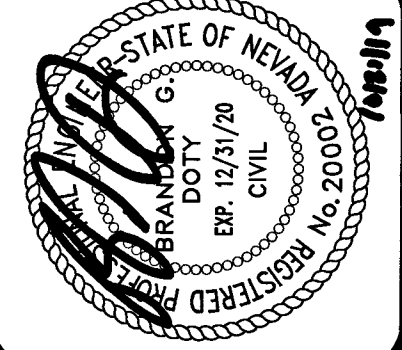
DRAINAGE CERTIFICATION

"I CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CLARK COUNTY". PW18-19631

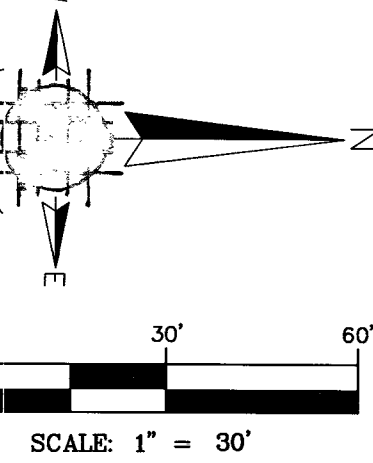
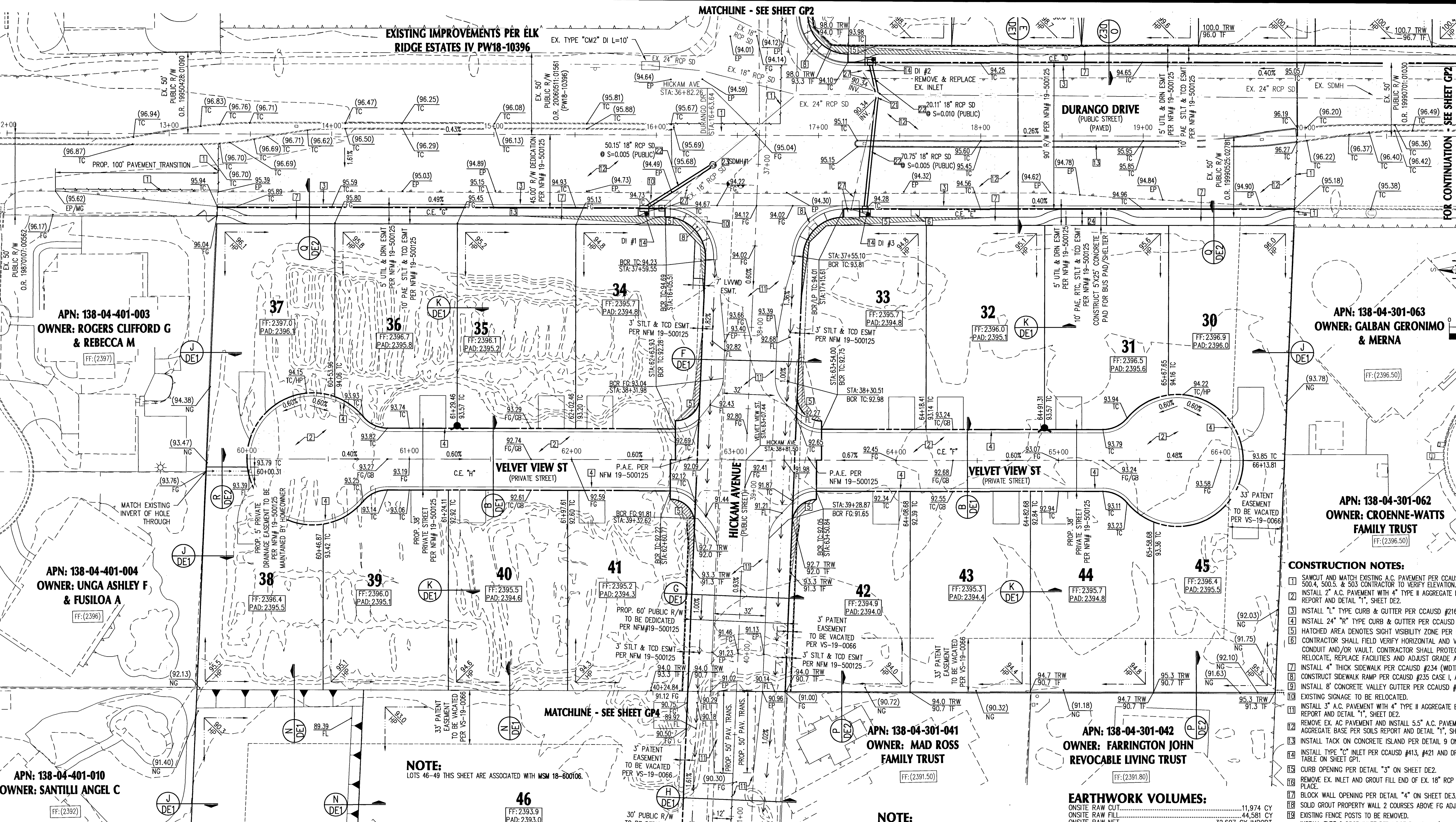
BRANDON G. DOTY P.E. #20002
DATE: 10/21/19
JOB NUMBER: 02-050
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: OCTOBER, 2019
GP1 8 31

GRADING PLAN 1

DURANGO & HICKAM
BY D.R. HORTON



ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY.
BLDG. 4 STE. #422
HENDERSON, NEVADA 89014
Office: 702.492.2294
Fax: 702.496.2294
Email: MAL@ADVANTAGECIVIL-LLP.COM
PLANNING
CIVIL ENGINEERING
CONSULTING



CONSTRUCTION NOTES:

- SAWOUT AND MATCH EXISTING A.C. PAVEMENT PER CCAUSD 500.3, 500.4, 500.5, & 503 CONTRACTOR TO VERIFY ELEVATION.
- INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
- INSTALL "L" TYPE CURB & GUTTER PER CCAUSD #216.
- INSTALL 24" "R" TYPE CURB & GUTTER PER CCAUSD #217.3.S1
- HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2
- CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF CONDUIT AND/OR VAULT. CONTRACTOR SHALL PROTECT IN PLACE, REPAIR, RELOCATE, REPLACE FACILITIES AND ADJUST GRADE AS NECESSARY.
- INSTALL 4" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
- CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE I, A & B=8' U.O.N.
- INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
- EXISTING SIGNAGE TO BE RELOCATED.
- INSTALL 3" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
- REMOVE EX. AC PAVEMENT AND INSTALL 5.5" A.C. PAVEMENT WITH 6" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
- INSTALL TACK ON CONCRETE ISLAND PER DETAIL 9 ON DE4.
- INSTALL TYPE "C" INLET PER CCAUSD #413, #421 AND DRAINAGE STRUCTURE TABLE ON SHEET GP1.
- CURB OPENING PER DETAIL "3" ON SHEET DE2.
- REMOVE EX. INLET AND GROUT FILL END OF EX. 18" ROP AND ABANDONED IN PLACE.
- BLOCK WALL OPENING PER DETAIL "4" ON SHEET DE3.
- SOLID GROUT PROPERTY WALL 2 COURSES ABOVE FG ADJACENT TO LOT 3 & 4.
- EXISTING FENCE POSTS TO BE REMOVED.
- INSTALL TYPE 2 DROP INLET PER NDOT R-4.2.1 W/ CONCRETE APRON PER NDOT R-4.2.7 AND DRAINAGE STRUCTURE TABLE ON SHEET GP1. SEE DETAIL SHEET DE3.
- CONNECT PROPOSED STORM DRAIN LATERALS TO EXISTING 48" TYPE II MANHOLE PER DETAIL "6", SHEET DE4.
- INSTALL CLASS III ROP STORM DRAIN, SIZE, LENGTH & MATERIAL PER PLAN.
- INSTALL TYPE I STORM DRAIN MANHOLE PER CCAUSD #403.
- INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.2
- INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.3
- EXISTING MANHOLE TO BE RAISED TO GRADE BY CONTRACTOR AS NECESSARY.
- REMOVE EXISTING DRAINAGE PIPE AND INLET.
- CONNECTION TO EXISTING DROP INLET PIPE PENETRATION PER DETAIL "7", SHEET DE4.

APN: 138-05-710-005
OWNER: KEITH ALVIN S
LIVING TRUST

APN: 138-05-710-006
OWNER: HEMBREE
JAMES & KIMBERLY

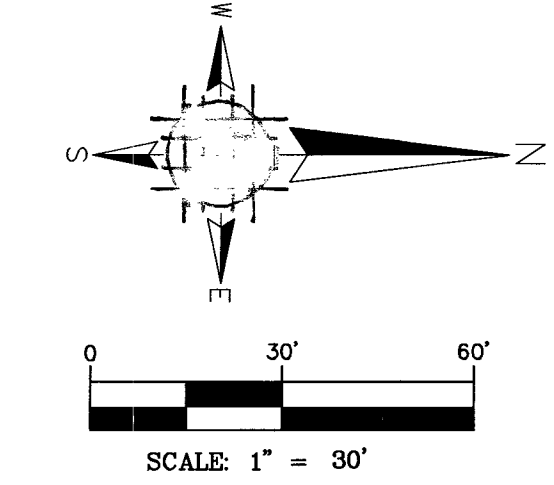
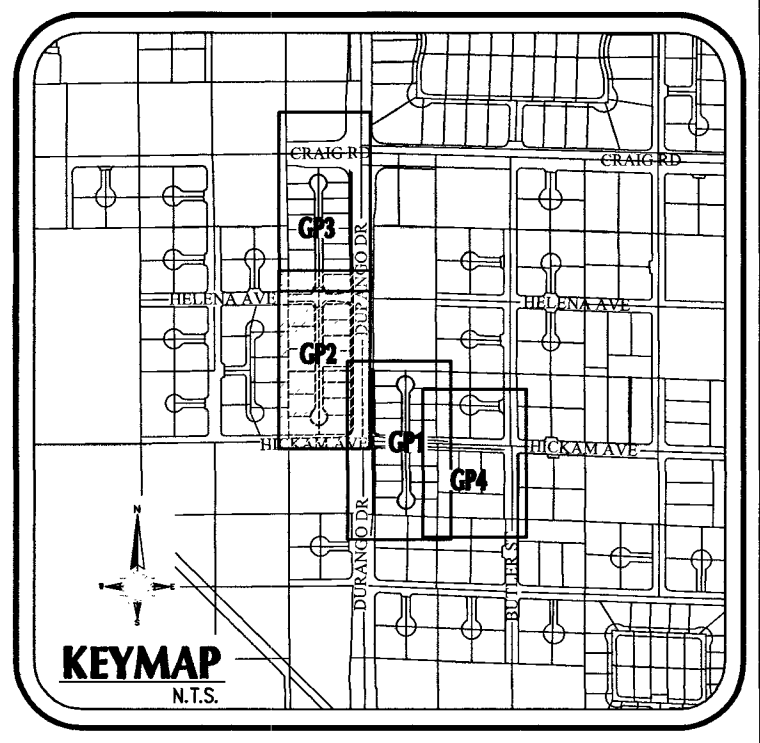
APN: 138-05-710-007
OWNER: MILLER
CURTIS B & ELAINE
LIV TR

APN: 138-05-710-008
OWNER: BOND
ROBIN RAY & KARIN
THIBAUT
REVOCABLE TRUST

APN: 138-05-710-009
OWNER: DOTSON
FAMILY REVOCABLE
LIVING TR

LEGEND

- EXISTING PAVEMENT
- FLOW RATE/DIRECTION
- LOT LINE
- SCARP (2:1 U.O.N)
- RETAINING WALL
- PROPOSED CONTOUR
- EX. GND. CONTOUR
- V-DITCH/SW
- EXISTING GRADE
- FUTURE GRADE
- ASPHALTIC CONCRETE
- BACK OF CURB RETURN
- BEGIN VERTICAL CURVE
- BOUNDARY LINE
- CENTERLINE
- COMMON ELEMENT
- CURB AND GUTTER
- EDGE OF PAVEMENT
- BEGIN VERTICAL CURVE
- EXISTING
- FINISH FLOOR
- FINISH GRADE
- FLOW LINE
- GRADE BREAK
- LANDSCAPE AREA
- MATCH EXISTING GRADE
- MUNICIPAL UTILITY EASEMENT
- NATURAL GRADE
- NON EXCLUSIVE UTILITY EASEMENT
- PAD GRADE
- POWER POLE
- PRIVATE STREET
- PROPERTY LINE
- PUBLIC UTILITY EASEMENT
- OFFICIAL RECORDED
- RIGHT OF WAY
- SIGHT VISIBILITY ZONE
- TOP OF CURB
- TRAFFIC CONTROL DEVICE
- TOP OF FOOTING
- TOP OF RETAINING WALL
- TOP OF FLOOD WALL
- TRANSITION
- VALLEY GUTTER
- V.C.
- U.O.N.
- UNLESS OTHERWISE NOTED
- MATCHLINE
- AREA OF NEW AC PAVEMENT



CONSTRUCTION NOTES:

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"I CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT CLARK COUNTY", PW18-19631

BRANDON G. DOTY P.E. #20002

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BENCHMARK

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730.541 (METERS)

CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

FAST
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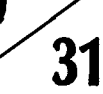
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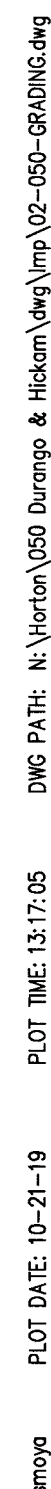
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Underground
1-702-227-2929

GRADING PLAN 2

DURANGO & HICKAM
BY D.R. HORTON

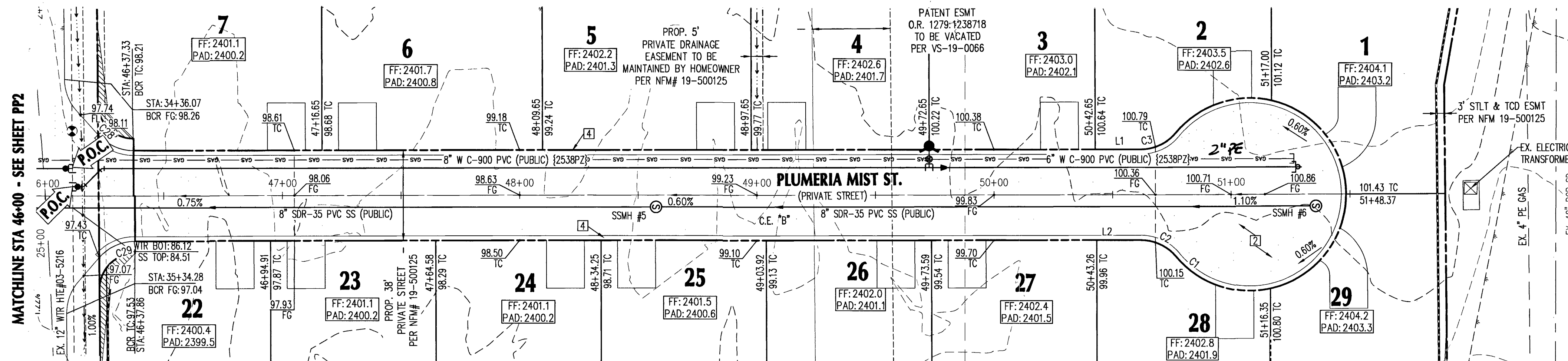
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smoya PLOT DATE: 10-21-19 PLOT TIME: 13:17:52 DWG PATH: N:\Horton\050 Durango & Hickam\dwg\imp\02-050-PNP.dwg

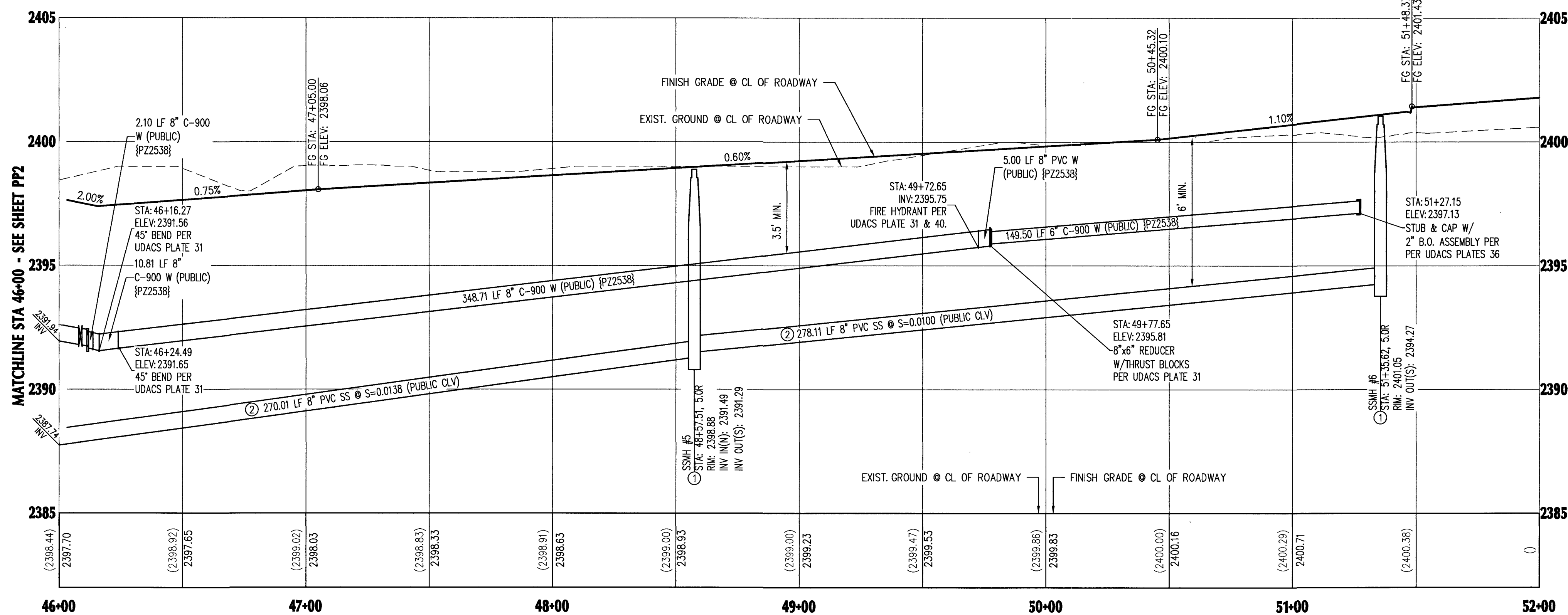
HELENA AVENUE MATCHLINE - SEE SHEET PP4



HELENA AVENUE MATCHLINE - SEE SHEET PP4

PLUMERIA MIST ST. (PRIVATE)-PLAN VIEW

SCALE: 1"=30'



PLUMERIA MIST ST. (PRIVATE)-PROFILE VIEW

HORIZONTAL: 1"=30'
VERTICAL: 1"=5'

CONSTRUCTION NOTES:

1. SAWCUT AND MATCH EXISTING A.C. PAVEMENT PER CCAUSD 500.3, 500.4, 500.5, & 503 CONTRACTOR TO VERIFY ELEVATION.
2. INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
3. INSTALL "L" TYPE CURB & GUTTER PER CCAUSD #216.
4. INSTALL 24" "R" TYPE CURB & GUTTER PER CCAUSD #217.3.51
5. HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2
6. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF CONDUIT AND/OR VAULT. CONTRACTOR SHALL PROTECT IN PLACE, REPAIR, RELOCATE, REPLACE FACILITIES AND ADJUST GRADE AS NECESSARY.
7. INSTALL 4" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
8. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE I, A & B=8" U.O.N.
9. INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
10. EXISTING SIGNAGE TO BE RELOCATED.
11. INSTALL 3" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
12. REMOVE EX. AC PAVEMENT AND INSTALL 5.5" A.C. PAVEMENT WITH 6" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
13. INSTALL TACK ON CONCRETE ISLAND PER DETAIL 9 ON DE4.
14. INSTALL TYPE "C" INLET PER CCAUSD #413, #421 AND DRAINAGE STRUCTURE TABLE ON SHEET GP1.
15. CURB OPENING PER DETAIL "3" ON SHEET DE2.
16. REMOVE EX. INLET AND GROUT FILL END OF EX. 18" RCP AND ABANDONED IN PLACE.
17. BLOCK WALL OPENING PER DETAIL "4" ON SHEET DE3.
18. SOLID GROUT PROPERTY WALL 2 COURSES ABOVE FG ADJACENT TO LOT 3 & 4.
19. EXISTING FENCE POSTS TO BE REMOVED.
20. INSTALL TYPE 2 DROP INLET PER NDOT R-4.2.1 W/ CONCRETE APRON PER NDOT R-4.2.7 AND DRAINAGE STRUCTURE TABLE ON SHEET GP1. SEE DETAIL SHEET DE3.
21. CONNECT PROPOSED STORM DRAIN LATERALS TO EXISTING 48" TYPE II MANHOLE PER DETAIL "6", SHEET DE4.
22. INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH & MATERIAL PER PLAN.
23. INSTALL TYPE I STORM DRAIN MANHOLE PER CCAUSD #403.
24. INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.2
25. INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.3
26. EXISTING MANHOLE TO BE RAISED TO GRADE BY CONTRACTOR AS NECESSARY.
27. REMOVE EXISTING DRAINAGE PIPE AND INLET.
28. CONNECTION TO EXISTING DROP INLET PIPE PENETRATION PER DETAIL "7", SHEET DE4.

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. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D)
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
4. ALL SEWER AND STORM DRAIN CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
5. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
6. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
7. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

GENERAL NOTES

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2300' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

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

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.

[Signature] 10-23-19
CLARK COUNTY 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 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136700 FIRST APPROVED DATE: 11/18/19

SEWER

1. INSTALL 48" TYPE I SANITARY SEWER MANHOLE PER DCSWCS SD-1, SD-4 AND SINGLE 24" LID PER SD-3.
2. SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
3. INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.
4. CONNECT TO EXISTING SEWER PER CLV# 107-V2884
5. STUB & PLUG W/ THRUST BLOCK PER DCSWCS 3.14 FOR FUTURE USE.

[Signature] 10/20/19
SOUTHWEST GAS CORPORATION DATE

* THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS FOR ANY LOSS OR DAMAGE. HOWEVER ARISING FROM THE USE OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

NOTE:

SEE SHEET PP2 FOR LINE AND CURVE TABLES.

BASIS OF BEARING

NORTH 00°08'35" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHWEST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, W.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT "0LV00 55EE6", BEING A TYPE OF LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB, WEST SIDE OF ISLAND AT DURANGO DR. #320' NORTH OF FLORIANE AVE.

ELEVATION: 2396.78 (FEET)
730.541 (METERS)

CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006) BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

SIGHT VISIBILITY NOTE:

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:

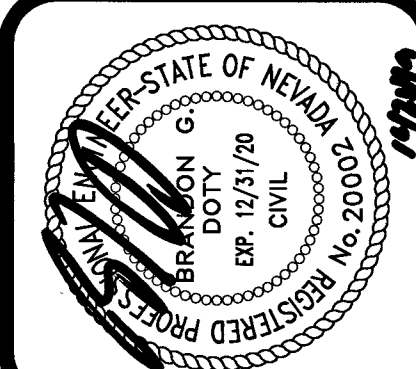
ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.



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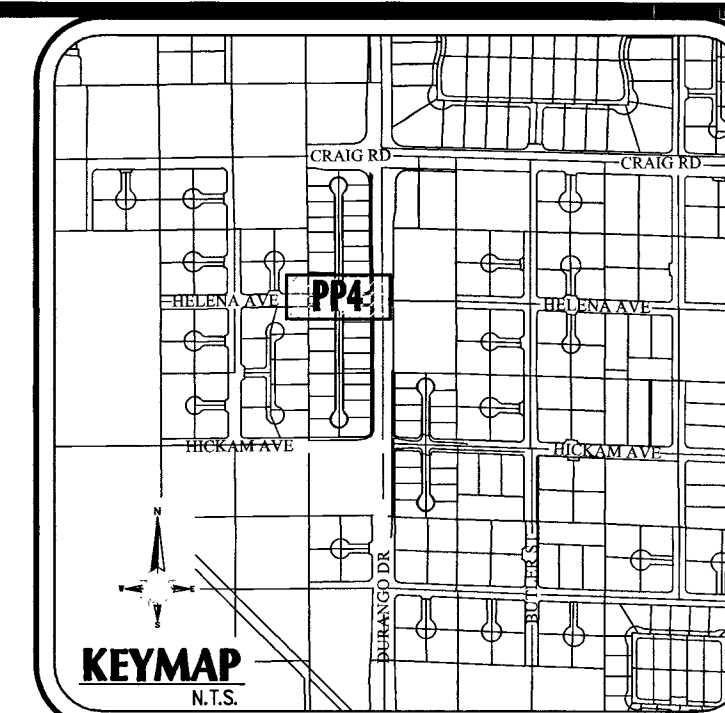
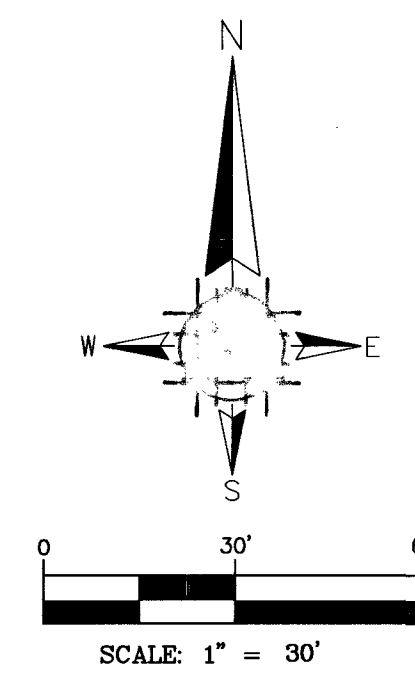
ADVANTAGE CIVIL DESIGN GROUP, LLP
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BLDG. 4 STE. #422
HENDERSON, NEVADA 89014
Office: 702.432.2294
Fax: 702.432.2294
Email: WILSON@ADVANTAGECIVIL-LLP.COM
CIVIL ENGINEERING
PLANNING



PLUMERIA MIST ST. PLAN & PROFILE 2
DURANGO & HICKAM
BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION
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JOB NUMBER: 02-050
DRAWN BY: CW
DESIGNED BY: BGD
CHECKED BY: BGD
DATE: OCTOBER, 2019
PP3 14 31



CONSTRUCTION NOTES:

- 1 SAWCUT AND MATCH EXISTING AC. PAVEMENT PER CCAUSD 500.3, 500.4, 500.5, & 503 CONTRACTOR TO VERIFY ELEVATION.
- 2 INSTALL 2" AC. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOLS REPORT AND DETAIL "1", SHEET D62.
- 3 INSTALL "L" TYPE CURB & GUTTER PER CCAUSD #216.
- 4 INSTALL 24" "R" TYPE CURB & GUTTER PER CCAUSD #217.3.51
- 5 HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2
- 6 CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF CONDUIT AND/OR VAULT. CONTRACTOR SHALL PROTECT IN PLACE, REPAIR, RELOCATE, REPLACE FACILITIES AND ADJUST GRADE AS NECESSARY.
- 7 INSTALL 4" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
- 8 CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE 1, A & B=B' U.O.N.
- 9 INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
- 10 EXISTING SIGNAGE TO BE RELOCATED.
- 11 INSTALL 3" AC. PAVEMENT WITH 4" TYPE I AGGREGATE BASE PER SOLS REPORT AND DETAIL "1", SHEET D62.
- 12 REMOVE EX. AC PAVEMENT AND INSTALL 5.5" AC. PAVEMENT WITH 6" TYPE II AGGREGATE BASE PER SOLS REPORT AND DETAIL "1", SHEET D62.
- 13 INSTALL TACK ON CONCRETE ISLAND PER DETAIL 9 ON D64.
- 14 INSTALL TYPE "C" INLET PER CCAUSD #413, #421 AND DRAINAGE STRUCTURE TACK ON SHEET G61.
- 15 CURB OPENING PER DETAIL "3" ON SHEET D62.
- 16 REMOVE EX. INLET AND GROUT FILL END OF EX. 18" RCP AND ABANDONED IN PLACE.
- 17 BLOCK WALL OPENING PER DETAIL "4" ON SHEET D63.
- 18 SLOD GROUT PROPERTY WALL 2 COURSES ABOVE FG ADJACENT TO LOT 3 & 4.
- 19 EXISTING FENCE POSTS TO BE REMOVED.
- 20 INSTALL TYPE 2 DROP INLET PER NDOT R-4.21 W/ CONCRETE APRON PER NDOT R-4.2.7 AND DRAINAGE STRUCTURE TACK ON SHEET G61. SEE DETAIL SHEET D63.
- 21 CONNECT PROPOSED STORM DRAIN LATERALS TO EXISTING 48" TYPE II MANHOLE DETAIL "6", SHEET D64.
- 22 INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH & MATERIAL PER PLAN.
- 23 INSTALL TYPE I STORM DRAIN MANHOLE PER CCAUSD #403.
- 24 INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.2
- 25 INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.3
- 26 EXISTING MANHOLE TO BE RAISED TO GRADE BY CONTRACTOR AS NECESSARY.
- 27 REMOVE EXISTING DRAINAGE PIPE AND INLET.
- 28 CONNECTION TO EXISTING DROW INLET PIPE PENETRATION PER DETAIL "7", SHEET

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. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D)
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
4. ALL SEWER AND STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES
5. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
6. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
7. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

GENERAL NOTES

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL FOOTINGS PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2300' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%.

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

ACCEPTANCE OF THESE PLANS FOR FILLING 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.

E. Kaminski 10-23-19
CLARK COUNTY 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 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135700 FIRST APPROVED DATE: 11/13/19

PW19-12332
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PW19-12332	
L 19-01110	307y1178

HELENA AVENUE PLAN & PROFILE

DURANGO & HICKAM
BY D.R. HORTON

-ADVANTAGE CIVIL DESIGN GROUP, LLP

Office: 702.436.2234
Fax: 702.436.2234
E-mail: MAIL@ADVANCECIVIL-NV.COM
D.D.U. # 316, #422
HENDERSON, NV 89014
CONSULTING
P. ANNING

CIVIL ENGINEERING CONSULTING PLANNING

HELENA AVENUE PLAN & PROFILE
DURANGO & HICKAM BY D.R. HORTON

[illegible]

BASIS OF BEARING

BASIS OF BEARING
NORTH 00°08'35" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, W.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK
CLARK COUNTY VERTICAL CONTROL POINT *0LV00 5SEI OF LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF SIDE OF ISLAND AT DURANGO DR. ±320' NORTH OF F

BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT "0LV00 S5EE6", BEING A CITY OF LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB, WEST SIDE OF ISLAND AT DURANGO DR. ±320' NORTH OF FLORINE AVE.

ELEVATION: 2396.78 (FEET)
730.541 (METERS)

CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88)

SIGHT VISIBILITY NOTE:

NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:

ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

NOTE:
SEE SHEET PP2 FOR LINE AND CURVE TABLES

SEWER

- ① INSTALL 48" Ø TYPE I SANITARY SEWER MANHOLE PER DCSWCS SD-1, SD-4 AND SINGLE 24" LID PER SD-3.
- ② SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
- ③ INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.
- ④ CONNECT TO EXISTING SEWER PER CLV# 107-V2884
- ⑤ STUB & PLUG W/ THRUST BLOCK PER DCSWCS 3.14 FOR FUTURE USE.

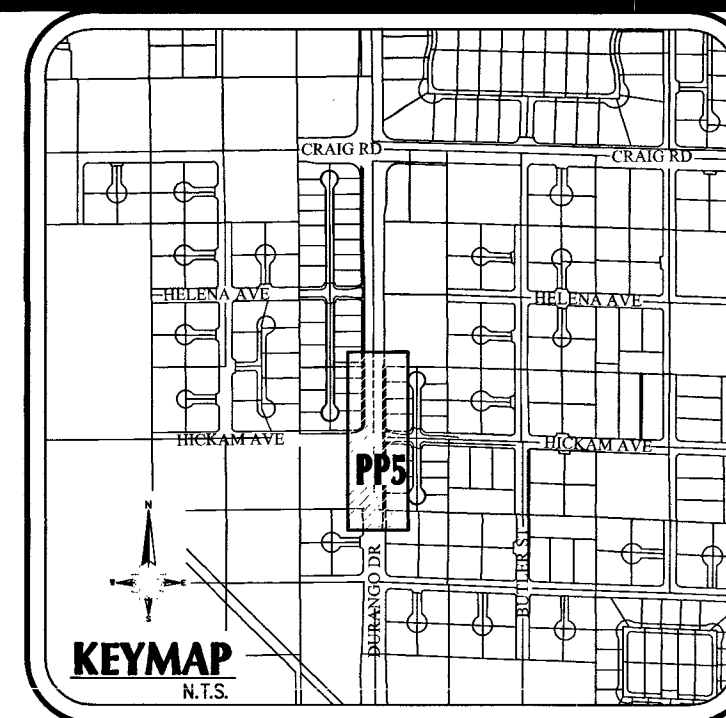
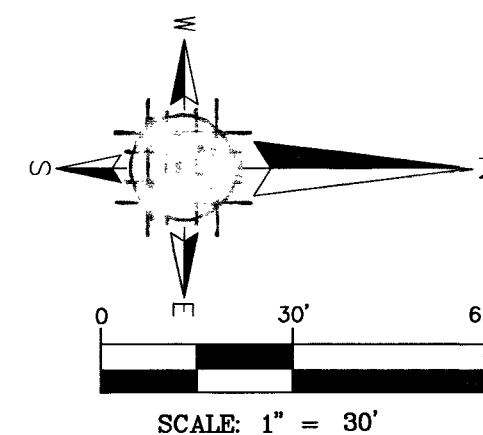
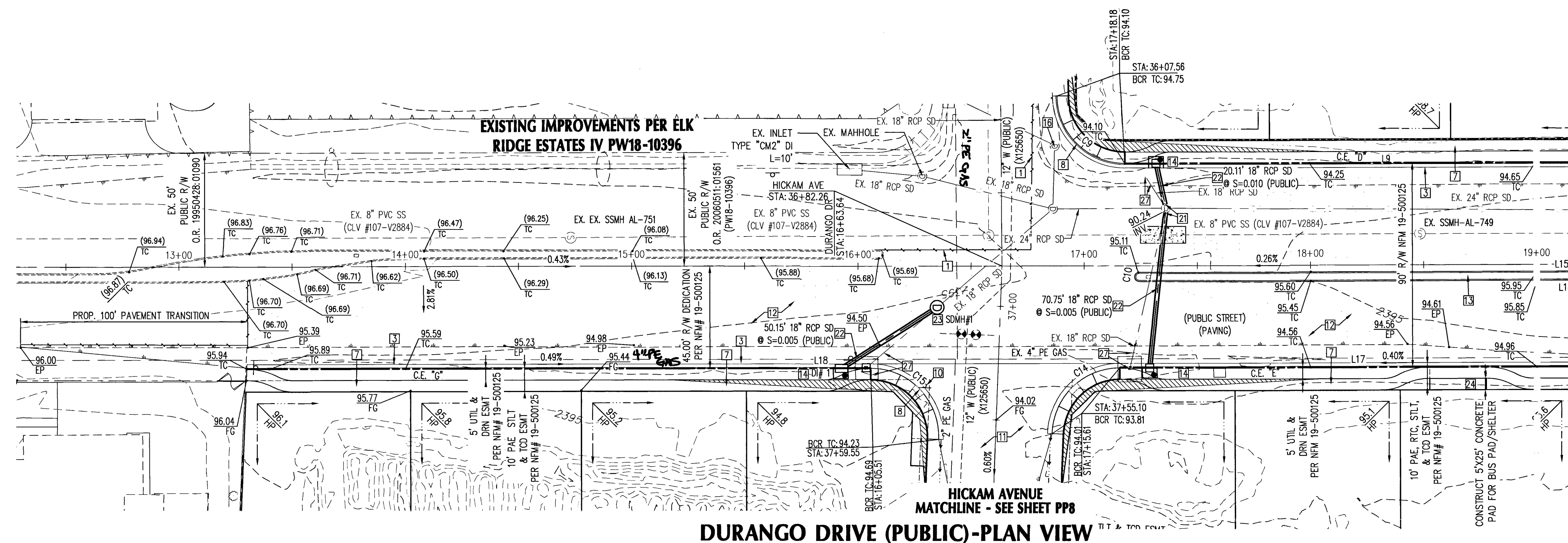
James H. King
SOUTHWEST GAS CORPORATION

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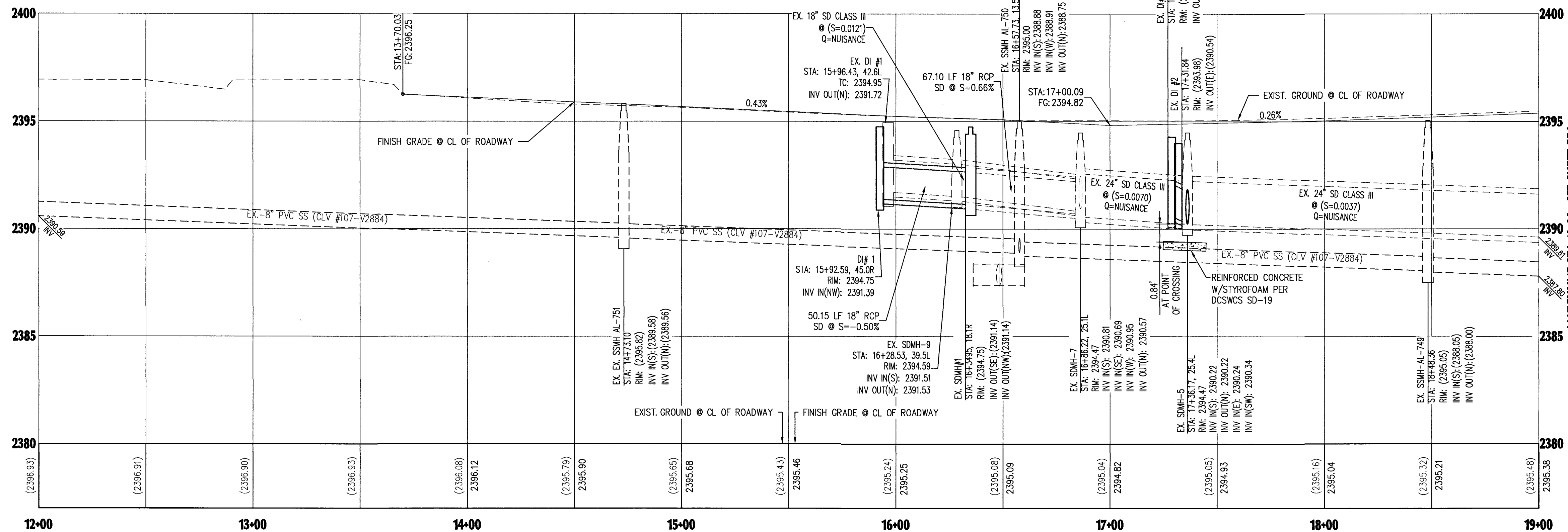
10/28/11
DATE

DATE: 11/13/19
PURPOSES ONLY: PROJECT NO. 135700 FIRST APPROVED DATE: 11/13/19

PP4	15 / 31
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CONSTRUCTION NOTES:



DURANGO DRIVE (PUBLIC)-PROFILE VIEW

DRAINAGE STRUCTURE TABLE				
STRUCTURE NAME	STRUCTURE DETAILS	DEPTH	CULB OPENING	# GRATE
*DI #1	TC: 2394.75 INV OUL: 2391.39	DEPTH: 3.36'	4'	1
*DI #2	TC: 2393.98 INV OUL: 2390.54	DEPTH: 2.94'	4'	1
*DI #3	TC: 2394.28 INV OUL: 2390.59	DEPTH: 3.19'	4'	1
*DI #4	GRATE: 2384.50 INV OUL: 2381.50	DEPTH: 3.00'	NA	1

NOTE:
SEE SHEET PP2 FOR LINE AND CURVE TABLES


SOUTHWEST GAS CORPORATION

10/28/19
DATE

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135700 FIRST APPROVED DATE: 11/13/19

PW19-12332	
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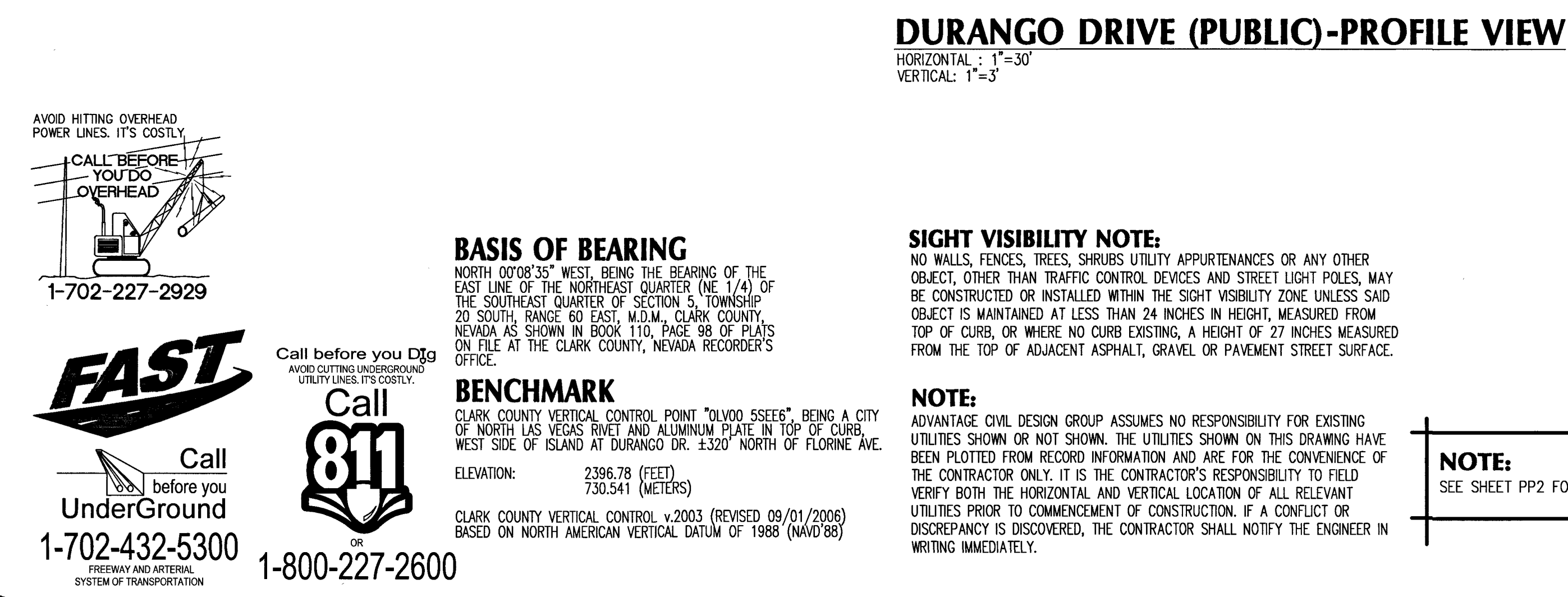
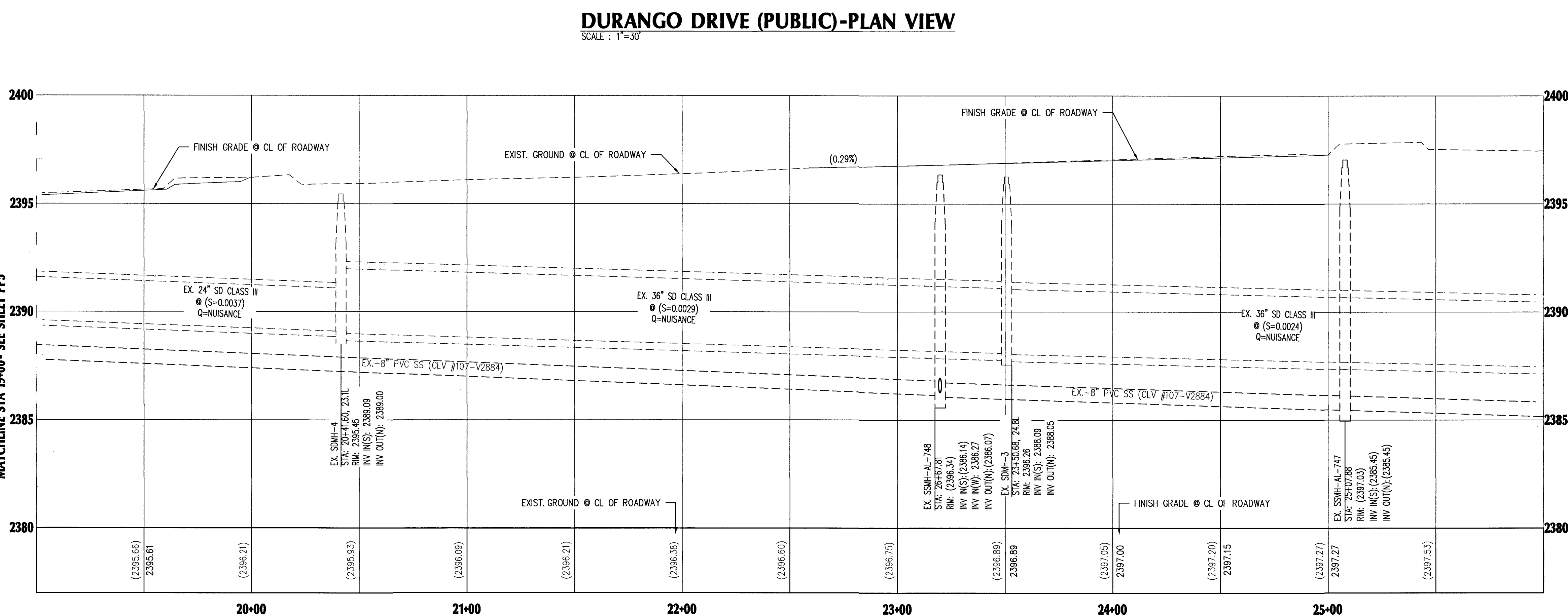
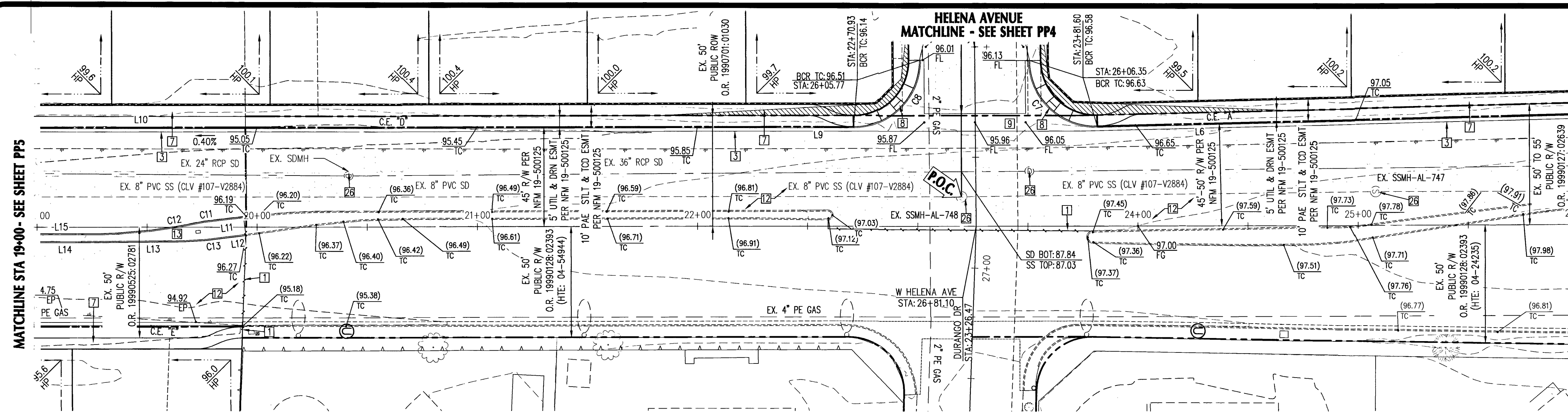
DURANGO PLAN & PROFILE 1

DURANGO & HICKAM
BY D.R. HORTON

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY.
BLDG. 4 STE. #422
HENRIKSON, NEVADA 89014
Office: 702.492.2294
Fax: 702.496.2254
Email: WALL@ADVANTAGECIVIL-NEV.COM

CIVIL ENGINEERING CONSULTING PLANNING

[illegible]



CONSTRUCTION NOTES

UTILITY NOTES:

GENERAL NOTES

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

 CLARK COUNTY FIRE DEPARTMENT	10-23-19 DATE
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135700 FIRST APPROVED DATE: 11/13/19

PW19-12332	
L 19-01110	307v1178



ADVANTAGE CIVIL DESIGN GROUP, LLP
 2920 N. GREEN VALLEY PKWY.
 BLDG. 4 STE. #422
 HENDERSON, NEVADA 89014

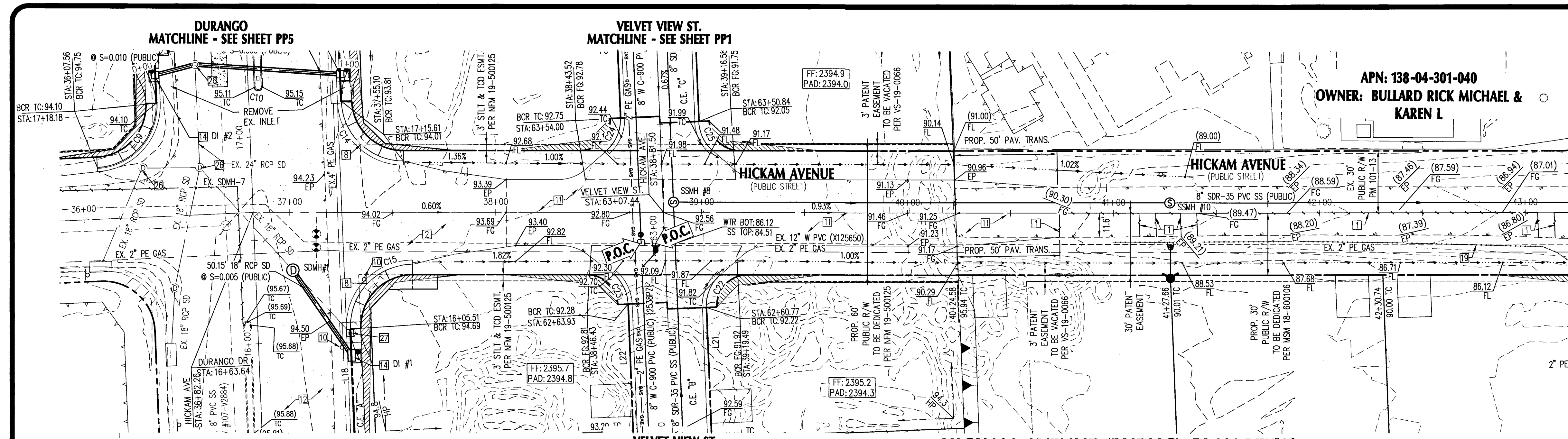
Office: 702.452.2254
 Fax: 702.456.2254
 Email: MAIL@ADVANTAGECIVIL-AN.COM

CIVIL ENGINEERING CONSULTING PLANNING

DURANGO PLAN & PROFILE 2

DURANGO & HICKAM
BY D.R. HORTON

[illegible]



APN: 138-04-301-040
OWNER: BULLARD RICK MICHAEL & KAREN L

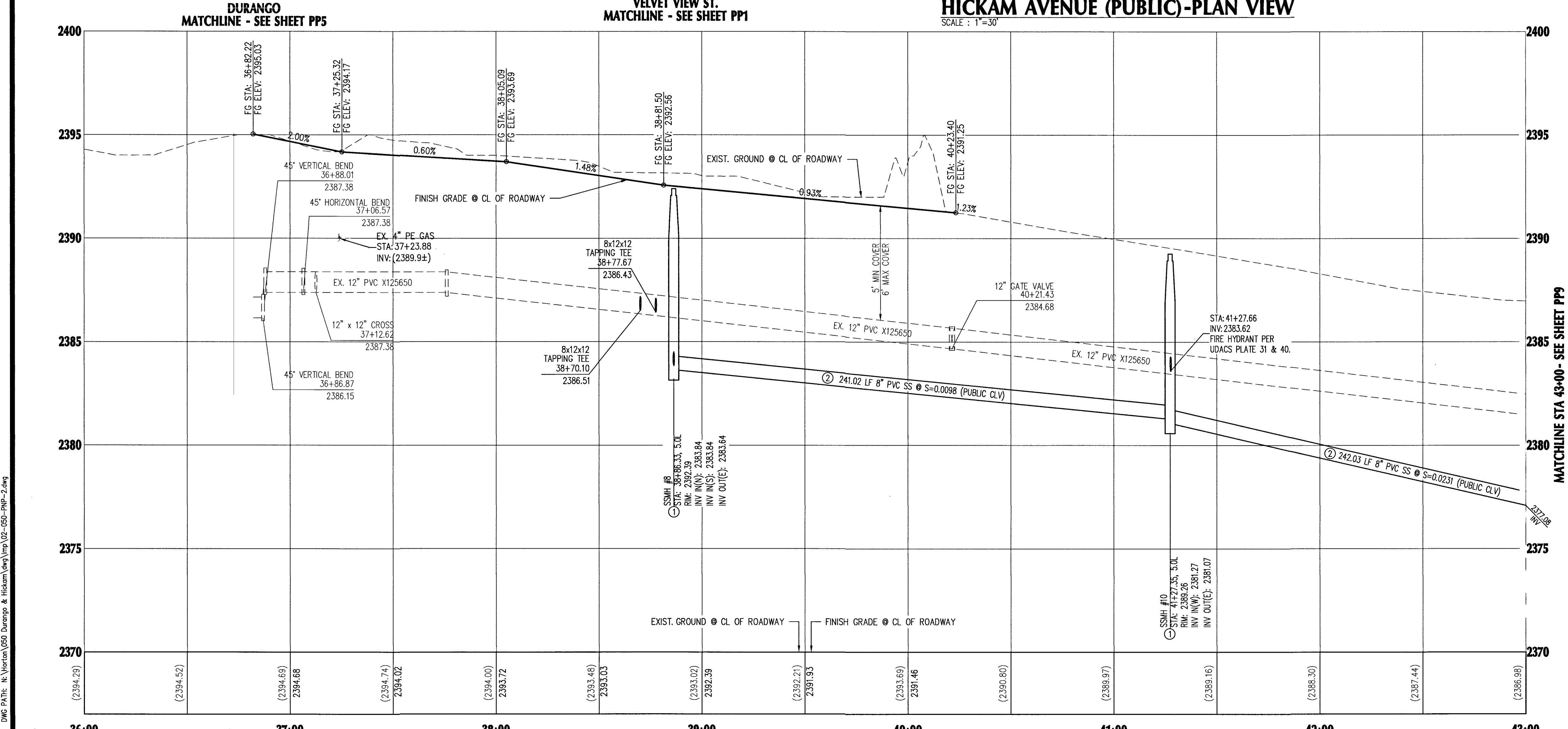
CONSTRUCTION NOTES:

1. SAWCUT AND MATCH EXISTING A.C. PAVEMENT PER CCAUSD 500.3, 500.4, 500.5, & 503 CONTRACTOR TO VERIFY ELEVATION.
2. INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
3. INSTALL "L" TYPE CURB & GUTTER PER CCAUSD #216.
4. INSTALL 24" "R" TYPE CURB & GUTTER PER CCAUSD #217.3.S1
5. HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2
6. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF CONDUIT AND/OR VAULT. CONTRACTOR SHALL PROTECT IN PLACE, REPAIR, RELOCATE, REPLACE FACILITIES AND ADJUST GRADE AS NECESSARY.
7. INSTALL 4" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
8. CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE 1, A & B-8' U.O.N.
9. INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
10. EXISTING SIGNAGE TO BE RELOCATED.
11. INSTALL 3" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
12. REMOVE EX. AC PAVEMENT AND INSTALL 5.5" A.C. PAVEMENT WITH 6" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
13. INSTALL TACK ON CONCRETE ISLAND PER DETAIL 9 ON DE4.
14. INSTALL TYPE "C" INLET PER CCAUSD #413, #421 AND DRAINAGE STRUCTURE TABLE ON SHEET GPI.
15. CURB OPENING PER DETAIL "3" ON SHEET DE2.
16. REMOVE EX. INLET AND GROUT FILL END OF EX. 18" RCP AND ABANDONED IN PLACE.
17. BLOCK WALL OPENING PER DETAIL "4" ON SHEET DE3.
18. SOLID GROUT PROPERTY WALL 2 COURSES ABOVE FG ADJACENT TO LOT 3 & 4.
19. EXISTING FENCE POSTS TO BE REMOVED.
20. INSTALL TYPE 2 DROP INLET PER NDOT R-4.2.1 W/ CONCRETE APRON PER NDOT R-4.2.7 AND DRAINAGE STRUCTURE TABLE ON SHEET GPI. SEE DETAIL SHEET DE3.
21. CONNECT PROPOSED STORM DRAIN LATERALS TO EXISTING 48" TYPE II MANHOLE DETAIL "6", SHEET DE4.
22. INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH & MATERIAL PER PLAN.
23. INSTALL TYPE I STORM DRAIN MANHOLE PER CCAUSD #403.
24. INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.2
25. INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.3
26. EXISTING MANHOLE TO BE RAISED TO GRADE BY CONTRACTOR AS NECESSARY.
27. REMOVE EXISTING DRAINAGE PIPE AND INLET.
28. CONNECTION TO EXISTING DROP INLET PIPE PENETRATION PER DETAIL "7", SHEET

KEYMAP

SCALE: 1" = 30'

ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY HWY.
BLDG. 4 STE. #422
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: WA@ADVANTAGECIVIL-LLP.COM
CONSULTING



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. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FORTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.D)
3. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
4. ALL SEWER AND STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
5. INSTALL PIPELINE MARKER BALLS, PER UDACS PLATE NO. 15.
6. WATER MAIN JOINT DEFLECTION, PER UDACS 2.07.01 AND 2.07.03.
7. MAINTAIN MINIMUM 24" COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

GENERAL NOTES

1. SEE FINAL MAP FOR EXACT BEARINGS AND DISTANCES.
2. CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
3. ALL GRADING WORK TO CONFORM TO SOILS REPORT AS PREPARED FOR THIS PROPERTY.
4. CONTRACTOR SHALL REMOVE EXCESS DEBRIS AND VERIFY WALL FOOTING ELEVATION PRIOR TO CONSTRUCTION, REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.
5. CONSTRUCT RETAINING WALL, FOOTING ELEVATION AND TOP OF WALL ELEVATION PER PLAN.
6. CONTRACTOR TO MAINTAIN MIN. DEPTH OF COVER ABOVE PAD FOOTINGS AND ADJACENT WALL FOOTINGS WHERE DEEP SWALES OCCUR.
7. ADD 2300' TO ELEVATION TAGS SHOWN ON THIS GRADING PLAN.
8. DRIVEWAY SLOPES CANNOT EXCEED MAXIMUM SLOPE OF 12.5%

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

APPROVAL 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.

NOTE:
SEE SHEET PP2 FOR LINE AND CURVE TABLES.

FAST
Call before you Dig
Call before you UnderGround

1-702-227-2929
1-702-432-5300
1-800-227-2600

BASIS OF BEARING
NORTH 00°08'35" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK
CLARK COUNTY VERTICAL CONTROL POINT "01000 5566", BEING A CITY OF NORTH LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB, WEST SIDE OF ISLAND AT DURANGO DR. ±320' NORTH OF FLORINE AVE.
ELEVATION: 2396.78 (FEET)
730.541 (METERS)

CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

SIGHT VISIBILITY NOTE:
NO WALLS, FENCES, TREES, SHRUBS UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTING, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE.

NOTE:
ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

HICKAM AVENUE (PUBLIC)-PROFILE VIEW
HORIZONTAL: 1"=30'
VERTICAL: 1"=3'

STRUCTURE NAME	STRUCTURE DETAILS	DEPTH	CURB OPENING	# GRATES
"DI #1	TC: 2394.75 INV OUT: 2391.39	DEPTH: 2.86'	4'	1
"DI #2	TC: 2393.98 INV OUT: 2390.54	DEPTH: 2.94'	4'	1
"DI #3	TC: 2394.28 INV OUT: 2390.59	DEPTH: 3.19'	4'	1
"DI #4	GRATE: 2384.50 INV OUT: 2381.50	DEPTH: 3.50'	NA	1

*STORMWATER INLET CONCRETE STAMP PER CCAUSD DRAWING #421

SEWER

1. INSTALL 48" TYPE I SANITARY SEWER MANHOLE PER DCSWCS SD-1, SD-4 AND SINGLE 24" LID PER SD-3.
2. SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
3. INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.
4. CONNECT TO EXISTING SEWER PER CLV# 107-V2884
5. STUB & PLUG W/ THRUST BLOCK PER DCSWCS 3.14 FOR FUTURE USE.

SOUTHWEST GAS CORPORATION
DATE: 10/20/19

*THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS FOR ANY LOSS OR DAMAGE, HOWEVER ARISING FROM THE USE OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

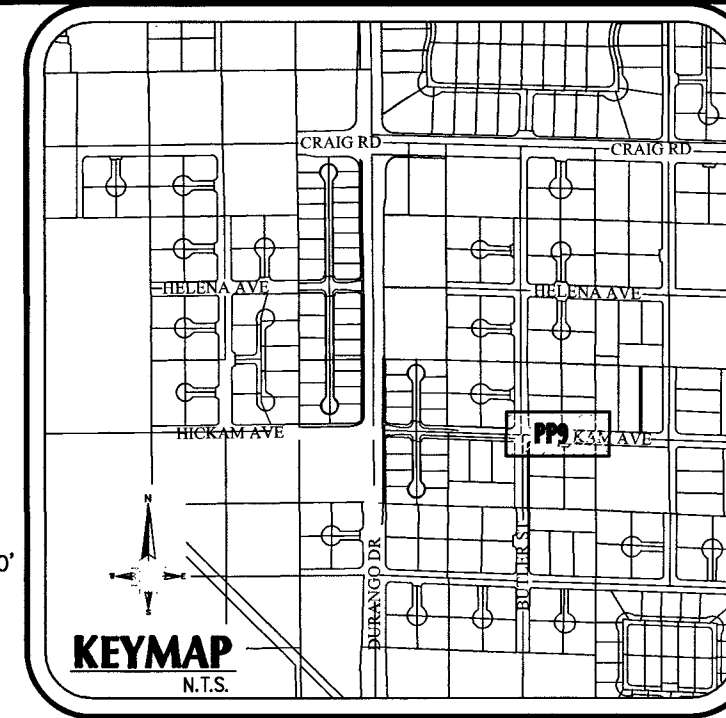
APPROVED FOR CONSTRUCTION

CLARK COUNTY FIRE DEPARTMENT
DATE: 10-23-19

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 1500 GPM AT 20 P.S.I. RESIDUAL.

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135700 FIRST APPROVED DATE: 11/13/19

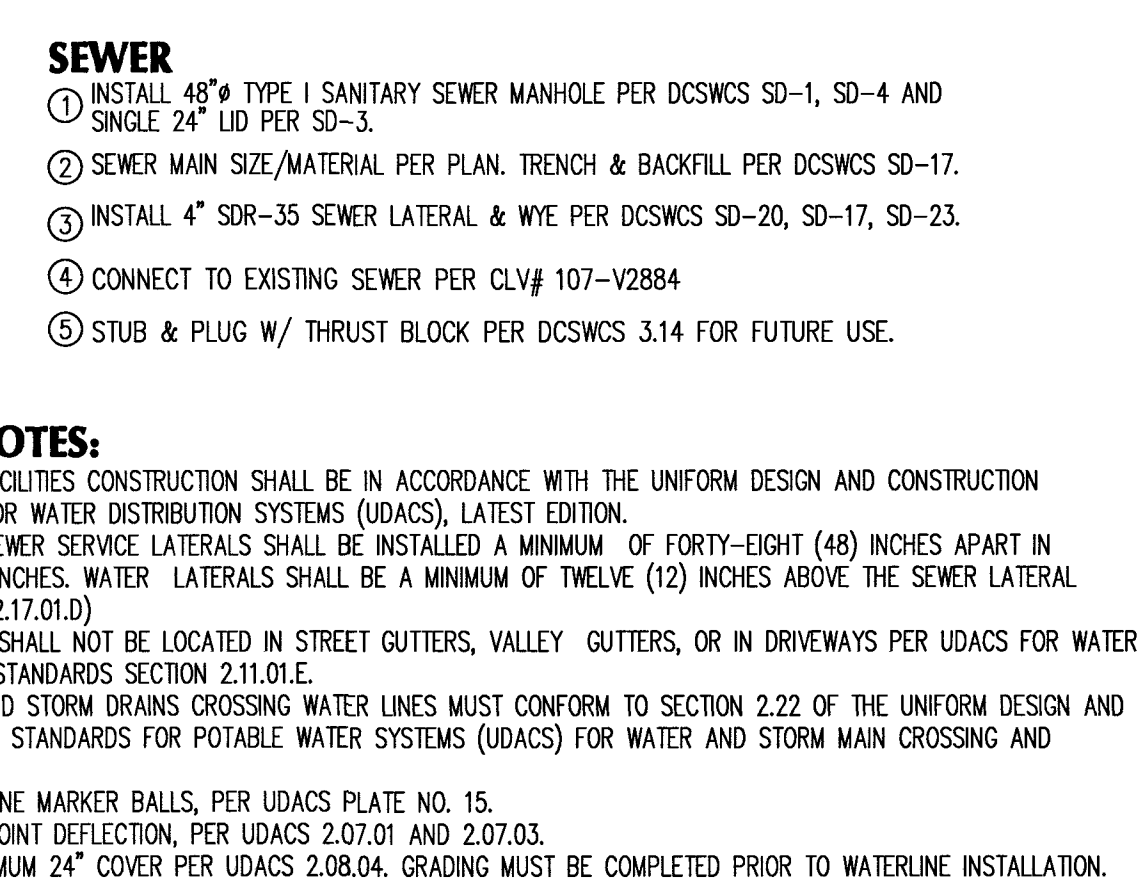
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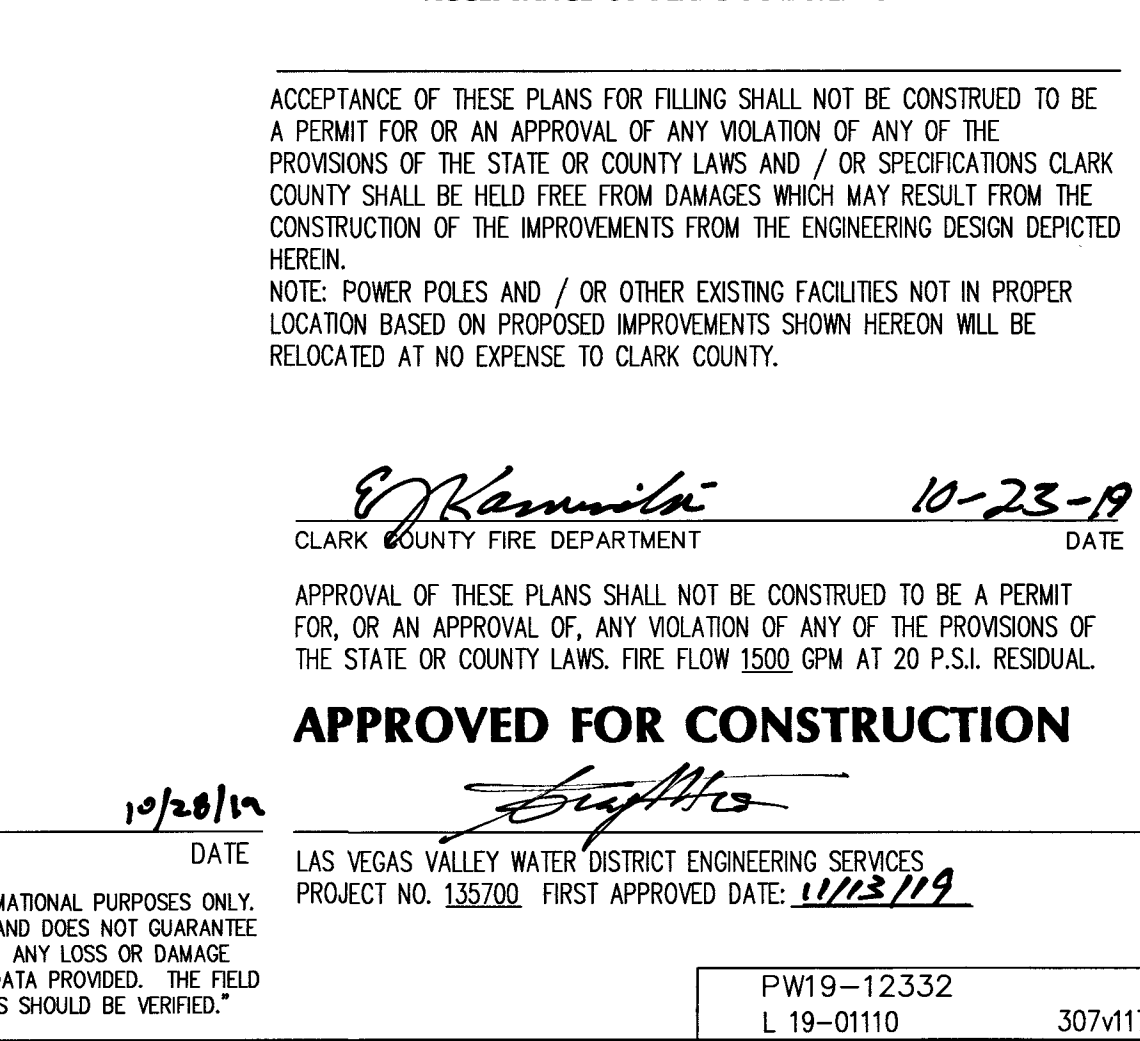
ADVANTAGE CIVIL DESIGN GROUP, LLP
29702 N. GREEN VALLEY PKWY.
BLDG. 4 51E #422
HENDERSON, NEVADA
89014

Office: 702.452.2254
Fax: 702.452.2254
E-mail: info@advantagcivil-nv.com

CIVIL ENGINEERING CONSULTING PLANNING

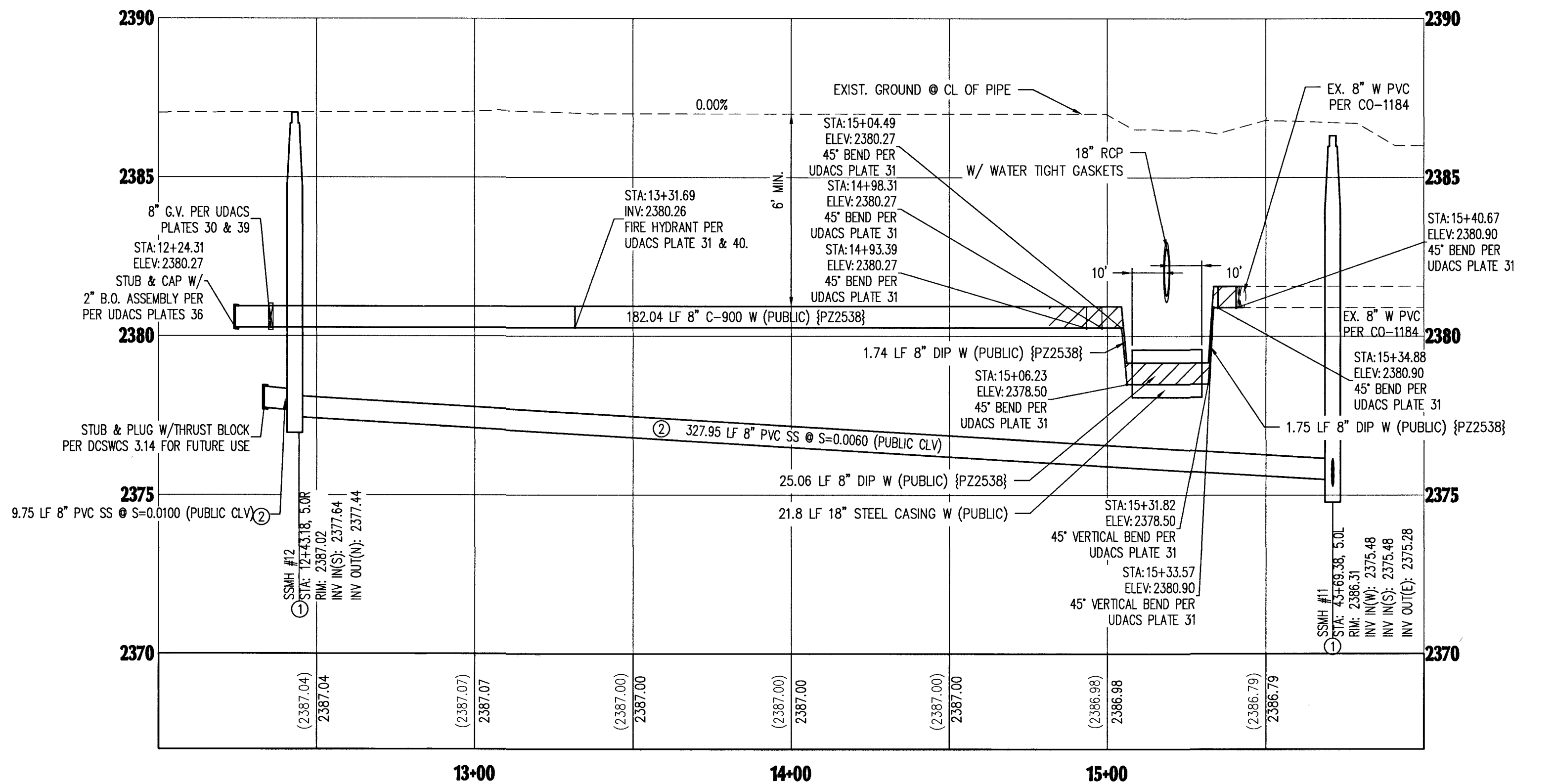
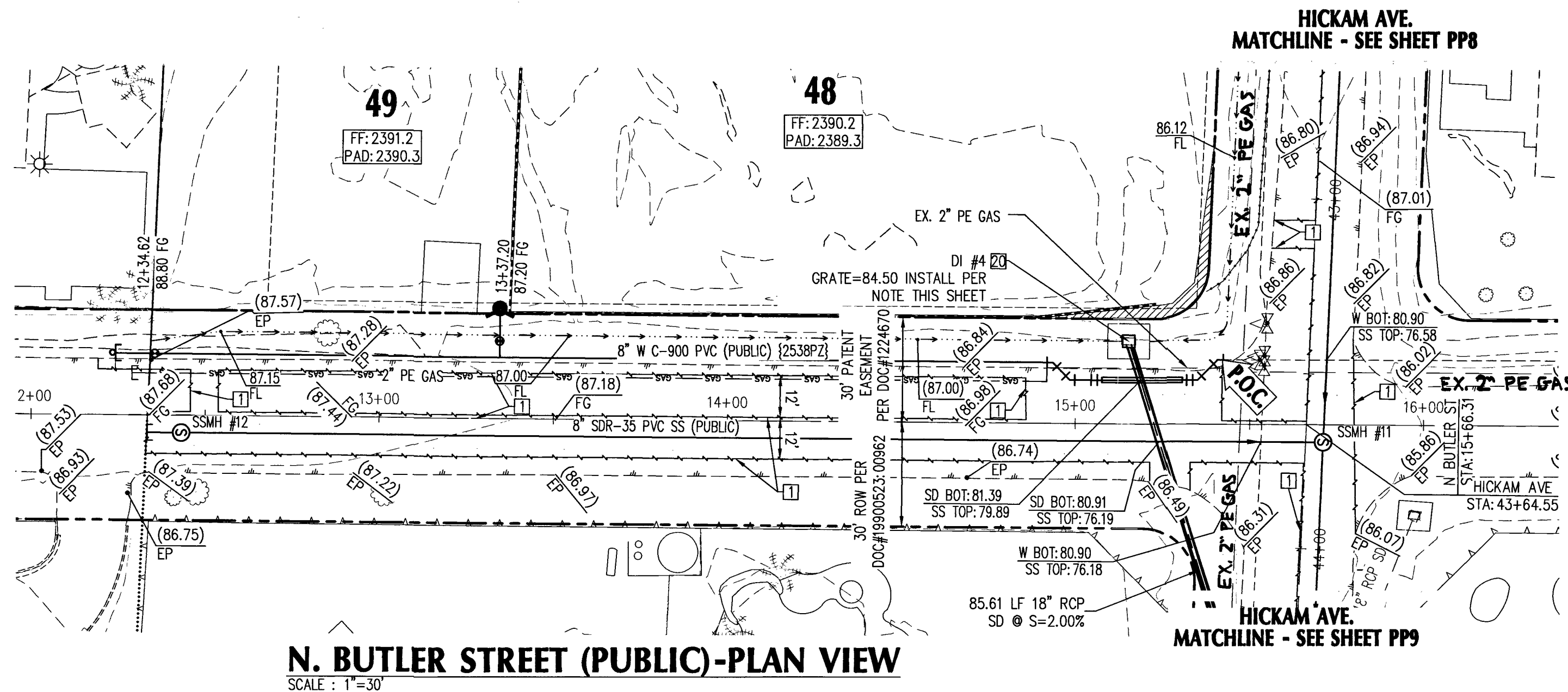


**CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING**



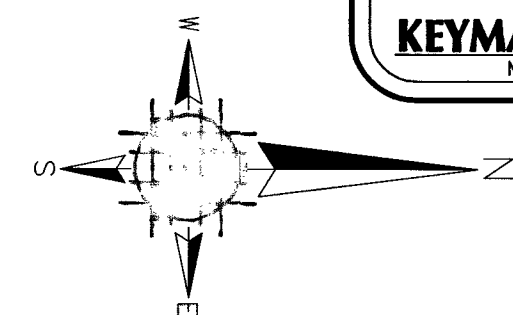
**DURANGO & HICKAM
BY D.R. HORTON**

[illegible]



N BUTLER STREET (PUBLIC)-PROFILE VIEW

HORIZONTAL: 1"=30'
VERTICAL: 1"=5'



CONSTRUCTION NOTES:

- SAWOUT AND MATCH EXISTING A.C. PAVEMENT PER CCAUSD 500.3, 500.4, 500.5, & 503 CONTRACTOR TO VERIFY ELEVATION.
- INSTALL 2" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
- INSTALL 12" TYPE CURB & GUTTER PER CCAUSD #216.
- INSTALL 24" "R" TYPE CURB & GUTTER PER CCAUSD #217.3.S1
- HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2
- CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF CONDUIT AND/OR VAULT. CONTRACTOR SHALL PROTECT IN PLACE, REPAIR, RELOCATE, REPLACE FACILITIES AND ADJUST GRADE AS NECESSARY.
- INSTALL 4" THICK SIDEWALK PER CCAUSD #234 (WIDTH PER PLANS).
- CONSTRUCT SIDEWALK RAMP PER CCAUSD #235 CASE 1, A & B-8" U.O.N.
- INSTALL 8" CONCRETE VALLEY GUTTER PER CCAUSD #228.
- EXISTING SIGNAGE TO BE RELOCATED.
- INSTALL 3" A.C. PAVEMENT WITH 4" TYPE II AGGREGATE BASE PER SOILS REPORT AND DETAIL "1", SHEET DE2.
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- INSTALL TACK ON CONCRETE ISLAND PER DETAIL 9 ON DE4.
- INSTALL TYPE "C" INLET PER CCAUSD #413, #421 AND DRAINAGE STRUCTURE TABLE ON SHEET GP1.
- CURB OPENING PER DETAIL "3" ON SHEET DE2.
- REMOVE EX. INLET AND GROUT FILL END OF EX. 18" RCP AND ABANDONED IN PLACE.
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- INSTALL TYPE 2 DROP INLET PER NDOT R-4.2.1 W/ CONCRETE APRON PER NDOT R-4.2.7 AND DRAINAGE STRUCTURE TABLE ON SHEET GP1. SEE DETAIL SHEET DE3.
- CONNECT PROPOSED STORM DRAIN LATERALS TO EXISTING 48" TYPE II MANHOLE PER DETAIL "6", SHEET DE4.
- INSTALL CLASS III RCP STORM DRAIN, SIZE, LENGTH & MATERIAL PER PLAN.
- INSTALL TYPE I STORM DRAIN MANHOLE PER CCAUSD #403.
- INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.2
- INSTALL BUS STOP PASSENGER LOADING AND SHELTER PAD PER CCAUSD #234.3
- EXISTING MANHOLE TO BE RAISED TO GRADE BY CONTRACTOR AS NECESSARY.
- REMOVE EXISTING DRAINAGE PIPE AND INLET.
- CONNECTION TO EXISTING DROP INLET PIPE PENETRATION PER DETAIL "7", SHEET DE4.

SEWER

- INSTALL 48" TYPE I SANITARY SEWER MANHOLE PER DCSWCS SD-1, SD-4 AND SINGLE 24" LID PER SD-3.
- SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
- INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.
- CONNECT TO EXISTING SEWER PER CLV# 107-V2884
- STUB & PLUG W/ THRUST BLOCK PER DCSWCS 3.14 FOR FUTURE USE.

SOUTHWEST GAS CORPORATION DATE 10/28/10

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

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.

CLARK COUNTY FIRE DEPARTMENT DATE 10-23-10

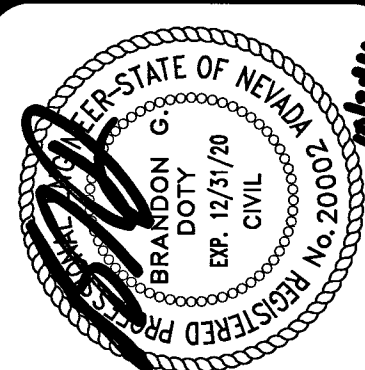
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APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135700 FIRST APPROVED DATE: 10/23/10

PP19-12332
L 19-01110 307/1178

N BUTLER PLAN & PROFILE
DURANGO & HICKAM
BY D.R. HORTON



ADVANTAGE CIVIL DESIGN GROUP, LLP
2970 N. GREEN VALLEY PKWY.
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HENDERSON, NEVADA 89014
Office: 702.432.2254
Fax: 702.436.2254
Email: WAL@ADVANTAGECIVIL-LLP.COM
PLANNING
CIVIL ENGINEERING

NO.	DATE	REVISIONS	DESCRIPTION
1			
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PP11 22 31

BASIS OF BEARING

NORTH 00°08'35" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, W.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT "OLV005SEE6", BEING A CITY OF NORTH LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB WEST SIDE OF ISLAND AT DURANGO DR. 1320' NORTH OF FLORINE AVE.

ELEVATION: 2396.78 (FEET)
730.541 (METERS)
CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

SIGHT VISIBILITY NOTE:

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DROP INLET NOTE

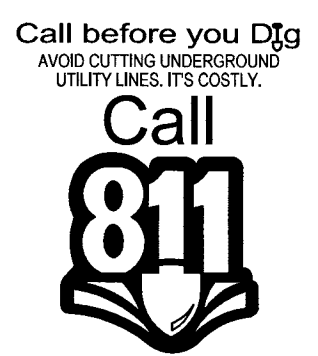
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP. (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL.)

NOTE:

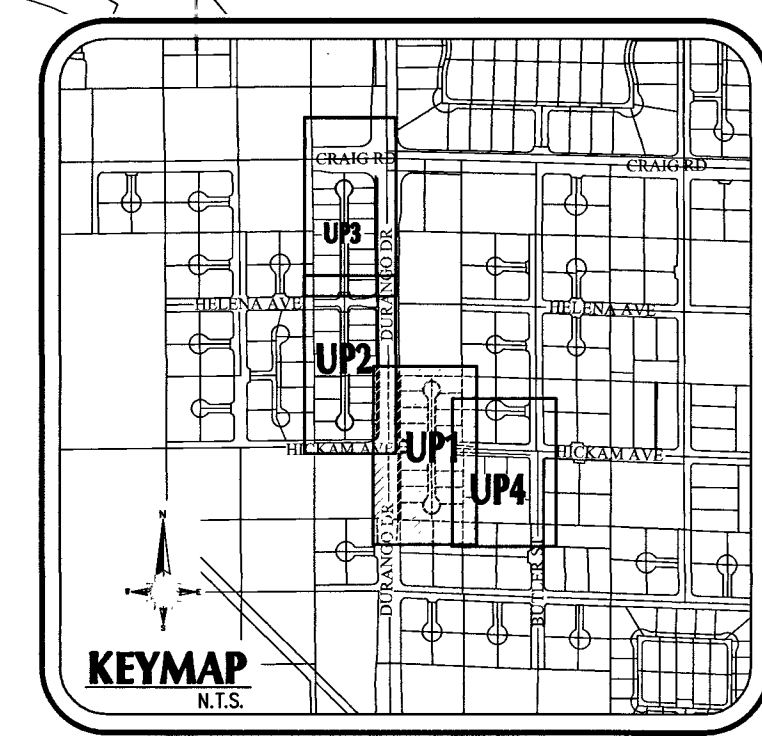
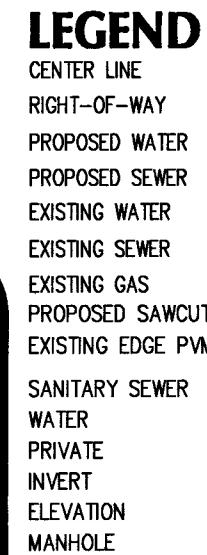
SEE SHEET PP2 FOR LINE AND CURVE TABLES.



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



1-800-227-2600



CLARK COUNTY FIRE DEPARTMENT *E. Kaurila* 10-23-19
#019-05749 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 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

Bea M. Co

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135700 DATE: 11/13/19 LVVWD
APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL MAXIMUM
AVAILABLE FIRE CONSUMPTION FLOW 00 GPM

LVVWD APPROVAL IS VALID FOR ONE (1) YEAR FROM SIGNATURE DATE. IF NOT CONSTRUCTION HAD NOT STARTED, PLANS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL.

SHEETS 1-6, 12-27	PW19-12332	
	L 19-01110	307v117

100

- ① INSTALL 48"Ø TYPE I SANITARY SEWER MANHOLE PER DCSWCS SD-10, SD-4, AND SINGLE 24" LID PER SD-3.
- ② SEWER MAIN SIZE (MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
- ③ INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.
- ④ CONNECT TO EXISTING SEWER PER CLV# 107-V2884
- ⑤ STUB & PLUG W/ THRUST BLOCK PER DCSWCS 3.14 FOR FUTURE USE.
- ⑥ INSTALL 4" C-900 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.

FIRE FLOW REQUIREMENT IS: 1,500 GPM
AT 20 PSI RESIDUAL PRESSURE.

BASED ON
SQUARE FOOTAGE: 2,630 SF

LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION	N/A	00
--	-----	----

WALLS:	<u>NYA</u>	SP
BUILDING HEIGHT:	<u><18.5'</u>	FE
NUMBER OF STORIES:	<u>2</u>	

NUMBER OF STORIES:	<u>2</u>
TYPE OF CONSTRUCTION:	<u>V-B</u>
OCCUPANCY:	<u>R-3</u>

FULL AUTOMATIC FIRE
SPRINKLER SYSTEM: NO

- ① INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE 40 AND DETAIL THIS SHEET. INCLUDE ALL APPOINTANCES.
- ② INSTALL 3/4" METEER W/ 1" SERVICE SADDLE & TYPE "K" COPPER LATERAL PER UDACS PLATE NO. 1.
- ③ WATER MAIN SIZE MATERIAL PER PLAN. TRENCH & BACKFILL PER UDACS PLATE #1.
- ④ STUB CAP W/ 2" BLOW OFF ASSEMBLY PER UDACS PLATE 36.
- ⑤ CONTRACTOR TO INSTALL 12" Ø 60 TAPPING SLEEVE W/ TAPPING VALVE PER UDACS 2.2.4.01 B, PLATE #34 & 39.
- ⑥ INSTALL 45° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
- ⑦ TRENCH, BACKFILL, AND AC PAVEMENT RESTORATION PER CCASUD #503, 500.3, AND 500.5.
- ⑧ INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES (PRIVATE). (VERIFY ALL IRRIGATION SLEEVES CROSSING W/ LANDSCAPE PLANS)
- ⑨ INSTALL 8" Ø REDUCER W/ THRUST BLOCK PER UDACS PLATE 30.
- ⑩ CONTRACTOR TO REMOVE EXISTING CAP & BLOWOFF PER UDACS PLATE 1 & CONNECT TO EXISTING MAIN.
- ⑪ INSTALL 8" GATE VALVE PER UDACS PLATE 30 & 39.
- ⑫ INSTALL 1" METEER WITH COPPER LATERAL PER UDACS PLATE #4 & RPP#4 PER UDACS PLATE #8
- ⑬ INSTALL 3' WIDE CONCRETE PAD TO COMPLETELY COVER WATER LATERALS BETWEEN METER AND RPP#4
- ⑭ CONTRACTOR TO INSTALL 12" Ø 60 TAPPING SLEEVE W/ TAPPING VALVE PER UDACS 2.2.4.01 B, PLATE #34 & 39.

1. ADVANCE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.
2. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
3. WATER AND SEWER SERVICE LATERALS SHALL BE INSTALLED A MINIMUM OF FOURTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL (REF. UDACS 2.17.01.d)
4. GATE VALVES SHALL NOT BE LOCATED IN STREET CUTTERS, VALLEY CUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.e.
5. ALL SEWER AND STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
6. ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM 1).
7. PROTECT IN PLACE AND ADJUST LVVMD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVMD FACILITIES SHALL BE IN ACCESSIBLE AT ALL TIMES.

NORTH 00°08'35" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

CLARK COUNTY VERTICAL CONTROL POINT "0LV00 5SE66" BEING A
CITY OF LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB
WEST SIDE OF ISLAND AT DURANGO DR. ±320' NORTH OF FLORINIA
AVE.

ELEVATION: 2396.78 (FEET)
730.541 (METERS)

CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88)

1000

FAST

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before you
UnderGround

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FREEDWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

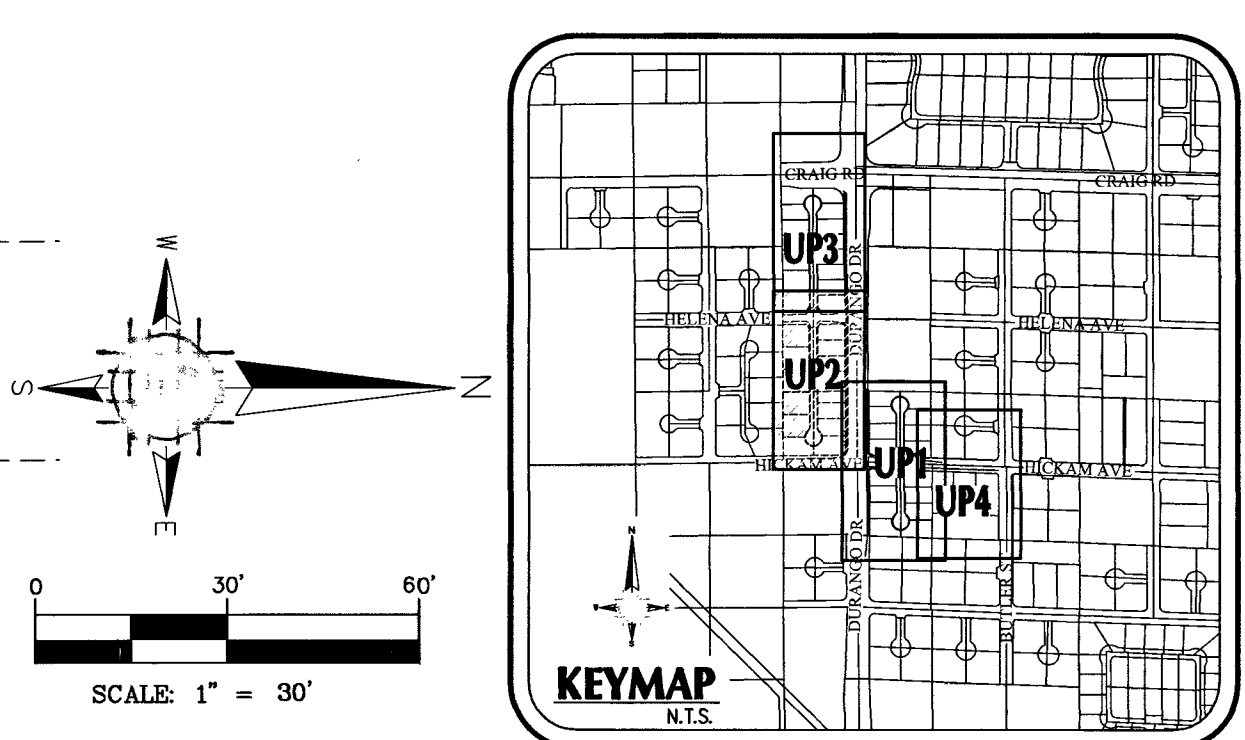
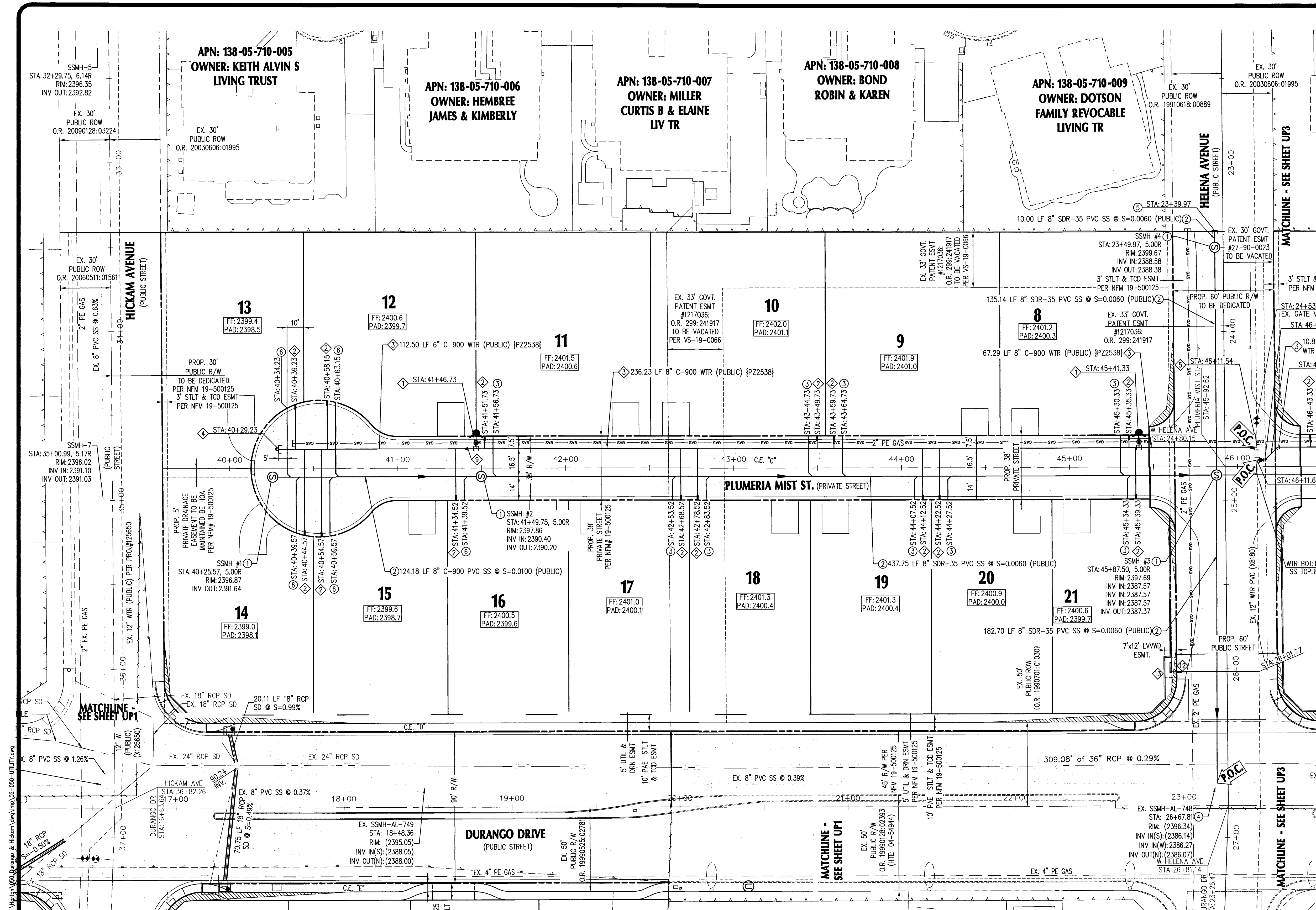
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UTILITY LINES. IT'S COSTLY.

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811

The logo for the 811 service, featuring the number 811 in a large, bold, black font. Below the number is a stylized black and white illustration of a shovel, with the blade pointing upwards and the handle curving downwards.

1-800-227-2600

BY									
DESCRIPTION									
NO.									
DATE									
JOB NUMBER:		02-050							
DRAWN BY:		CW							
DESIGNED BY:		CW							
CHECKED BY:		BGD							
DATE:		OCTOBER, 2019							
UP1		24		31					



CONSTRUCTION NOTES

- WATER**
- 1. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE 40 AND DETAIL THIS SHEET. INCLUDE ALL APPURTENANCES.
 - 2. INSTALL 3/4" METER W/ 1" SERVICE SADDLE & TYPE "K" COPPER LATERAL PER UDACS PLATE NO. 1.
 - 3. WATER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
 - 4. STUB & CAP W/ 2" BLOW OFF ASSEMBLY PER UDACS PLATE 36.
 - 5. CONTRACTOR TO INSTALL 12"x8" TAPPING SLEEVE W/ TAPPING VALVE PER UDACS 2.24.01 B, PLATE #34 & 39.
 - 6. INSTALL 45" BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 - 7. TRENCH, BACKFILL, AND ASPHALT PAVEMENT RESTORATION PER UDACS 2.24.01 B, PLATE #34 & 39.
 - 8. INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES (PRIVATE). (VERIFY ALL IRRIGATION SLEEVES CROSSING W/ LANDSCAPE PLANS)
 - 9. INSTALL 8"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 30.
 - 10. CONTRACTOR TO REMOVE EXISTING CAP & BLOWOFF PER UDACS PLATE #9 & CONNECT TO EXISTING MAIN.
 - 11. INSTALL 8" GATE VALVE PER UDACS PLATE 30 & 39.
 - 12. INSTALL 1" METER WITH 1" COPPER LATERAL PER UDACS PLATES #4 W/1" RPPA PER UDACS PLATES #8
 - 13. INSTALL 3" WIDE CONCRETE PAD TO COMPLETELY COVER WATER LATERALS BETWEEN METER AND RPPA
 - 14. CONTRACTOR TO INSTALL 12"x8" TAPPING SLEEVE W/ TAPPING VALVE PER UDACS 2.24.01 B, PLATE #34 & 39.

SEWER

- 1. INSTALL 48" TYPE I SANITARY SEWER MANHOLE PER DCSWCS SD-1, SD-4, AND SINGLE 24" LID PER SD-3.
- 2. SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
- 3. INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.
- 4. CONNECT TO EXISTING SEWER PER CLV# 107-12884
- 5. STUB & PUMP W/ THRUST BLOCK PER DCSWCS 3.14 FOR FUTURE USE
- 6. INSTALL 4" C-900 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 1,500 GPM AT 20 PSI RESIDUAL PRESSURE.

BASED ON	
SQUARE FOOTAGE:	2,630 SF
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A SF
BUILDING HEIGHT:	<18.5' FEET
NUMBER OF STORIES:	2
TYPE OF CONSTRUCTION:	V-B
OCCUPANCY:	R-3
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO

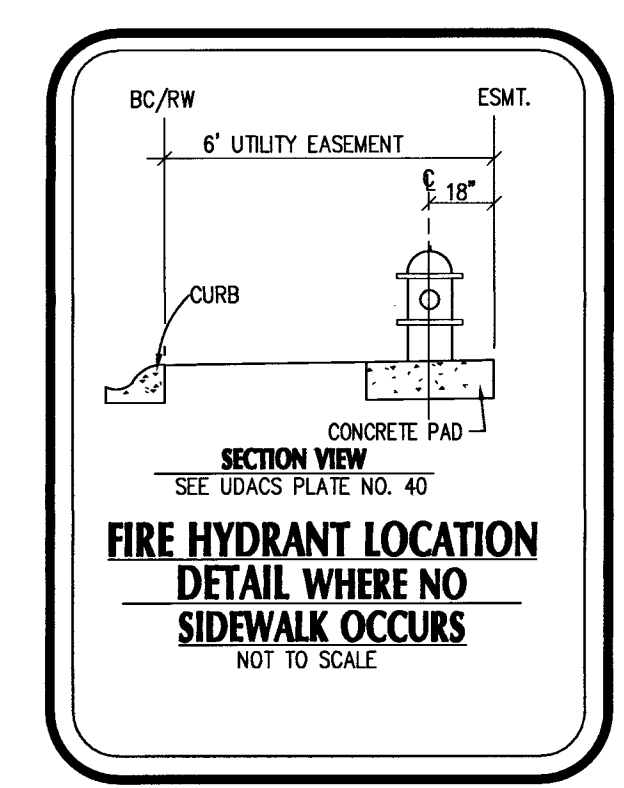
TO ENSURE LLVWD ACCESS WITHIN EASEMENT
ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDER, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN THE ESMT.

UTILITY NOTES

1. ADVANTAGE CIVIL DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY BOTH THE HORIZONTAL AND VERTICAL LOCATION OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.
2. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
3. WATER AND SEWER SERVICE LATERALS SHALL BE A MINIMUM OF FOURTY-EIGHT (48) INCHES APART IN SEPARATE TRENCHES. WATER LATERALS SHALL BE A MINIMUM OF TWELVE (12) INCHES ABOVE THE SEWER LATERAL. (REF. UDACS 2.17.01.D)
4. GATE VALVES SHALL NOT BE LOCATED IN STREET GUTTERS, VALLEY GUTTERS, OR IN DRIVEWAYS PER UDACS FOR WATER DISTRIBUTION STANDARDS SECTION 2.11.01.E.
5. ALL SEWER AND STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSING AND CLEARANCES.
6. ANNULAR SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM I).
7. PROTECT IN PLACE AND ADJUST LLVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LLVWD FACILITIES SHALL BE IN ACCESSIBLE AT ALL TIMES.

LEGEND

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



BASIS OF BEARING

NORTH 07°08'35" WEST BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK
CLARK COUNTY VERTICAL CONTROL POINT "01000 5566" BEING A CITY OF LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB, WEST SIDE OF ISLAND AT DURANGO DR. ±320' NORTH OF FLORINE AVE.
ELEVATION: 2396.78 (FEET)
730.541 (METERS)
CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006) BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88)

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ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY.
BLDG. 4 STE. #422
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: WA@ADVANTAGECIVIL-LLP.COM
CONSULTING
CIVIL ENGINEERING

STATE OF NEVADA
BRANDY G. DOTY
DOTY 12/31/20
CIVIL
EXPIRES 12/31/2024

UTILITY PLAN 2
DURANGO & HICKAM
BY D.R. HORTON

NO. DATE BY DESCRIPTION
1. 10/20/19 JAW SOUTHWEST GAS CORPORATION 10/20/19 DATE
2. 10/28/19 EJK CLARK COUNTY FIRE DEPARTMENT 10-28-19 DATE
3. 10/28/19 EJK CLARK COUNTY FIRE DEPARTMENT 10-28-19 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 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES DATE: 11/13/19
PROJECT NO. 135700 DATE: 11/13/19
APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM.

LLVWD APPROVAL IS VALID FOR ONE (1) YEAR FROM SIGNATURE DATE. IF NOT CONSTRUCTION HAD NOT STARTED, PLANS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL.

SHEETS 1-6, 12-27

PW19-12332
L 19-01110 307v1178

JOB NUMBER: 02-050
DRAWN BY: CW
DESIGNED BY: BGD
CHECKED BY: BGD
DATE: OCTOBER, 2019

UP2 **25** **31**

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1-800-227-2600



BASIS OF BEARING

NORTH 0°08'35" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK

CLARK COUNTY VERTICAL CONTROL POINT "01000 55FEET", BEING A CITY OF LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB, WEST SIDE OF ISLAND AT DURANGO DR. ±320' NORTH OF FLORINE AVE.

ELEVATION: 2396.78 (FEET)
730.541 (METERS)
CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88)

UTILITY NOTES

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- ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM I).
- PROTECT IN PLACE AND ADJUST LVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVWD FACILITIES SHALL BE IN ACCESSIBLE AT ALL TIMES.

TO ENSURE LLVWD ACCESS WITHIN EASEMENT

ALL ABOVE GROUND OBSTRUCTION INCLUDING BUT NOT LIMITED TO, LANDSCAPE BOULDER, FENCES/WALLS, AND SIGNS ARE STRICTLY PROHIBITED WITHIN THE ESMT.

FIRE FLOW CALCULATIONS

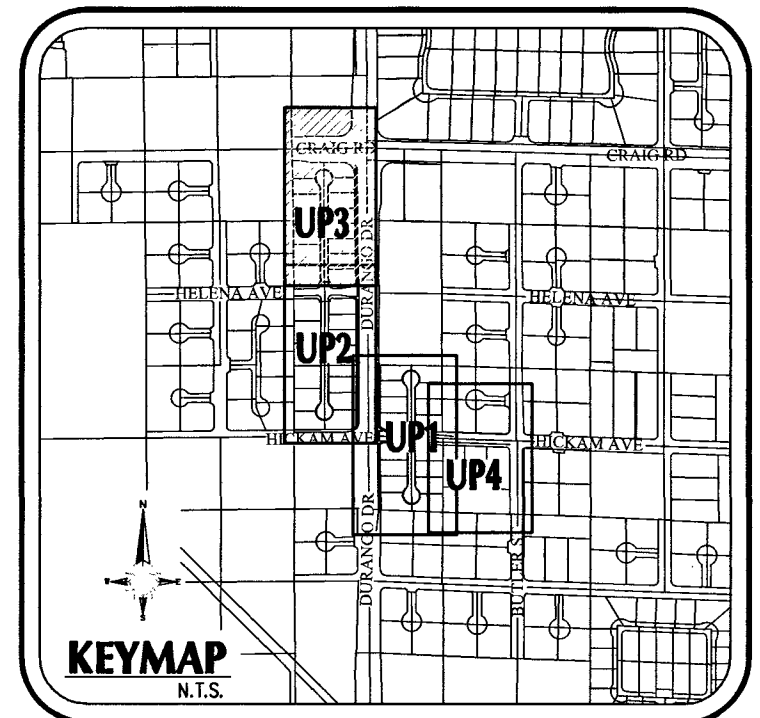
FIRE FLOW REQUIREMENT IS: 1,500 GPM AT 20 PSI RESIDUAL PRESSURE.

BASED ON		
SQUARE FOOTAGE:	2,630	SF
LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS:	N/A	SF
BUILDING HEIGHT:	<18.5'	FEET
NUMBER OF STORIES:	2	
TYPE OF CONSTRUCTION:	V-B	
OCCUPANCY:	R-3	
FULL AUTOMATIC FIRE SPRINKLER SYSTEM:	NO	

APN: 138-05-701-008
OWNER: DESTINY HOMES LLC

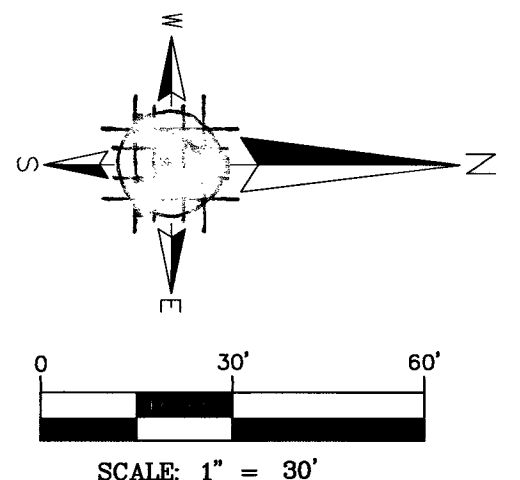
APN: 138-05-701-017
OWNER: A D J TRUST

APN: 138-05-701-019
OWNER: MUNCH DEBORAH M & BRIAN C



LEGEND

CENTER LINE
RIGHT-OF-WAY
PROPOSED WATER
PVC W
PVC SS
PROPOSED SEWER
EX. WATER LINE
EX. SEWER LINE
EX. GAS
EXISTING GAS
PROPOSED SAWCUT
EXISTING EDGE PAVT
SANITARY SEWER
WATER
PRIVATE
INVERT
ELEVATION
MANHOLE



CONSTRUCTION NOTES

- #### WATER
- INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE 40 AND DETAIL THIS SHEET. INCLUDE ALL APPURTENANCES.
 - INSTALL 3/4" METER W/ 1" SERVICE SADDLE & TYPE "K" COPPER LATERAL PER UDACS PLATE NO. 1.
 - WATER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER UDACS PLATE 17.
 - STUB & CAP W/ 2" BLOW OFF ASSEMBLY PER UDACS PLATE 36.
 - CONTRACTOR TO INSTALL 12"x8" TAPPING SLEEVE W/ TAPPING VALVE PER UDACS 2.24.01 B, PLATE #34 & 39.
 - INSTALL 45° BEND W/ THRUST BLOCK PER UDACS PLATE 31.
 - TRENCH, BACKFILL, AND AC PAVEMENT RESTORATION PER CCAUSD #503, 500.3, AND 500.5.
 - INSTALL (2) 4" SCHEDULE 40 PVC IRRIGATION SLEEVES (PRIVATE). (VERIFY ALL IRRIGATION SLEEVES CROSSING W/ LANDSCAPE PLANS)
 - INSTALL 8"x6" REDUCER W/ THRUST BLOCK PER UDACS PLATE 30.
 - CONTRACTOR TO REMOVE EXISTING CAP & BLOWOFF PER UDACS PLATE #9 & CONNECT TO EXISTING MAIN.
 - INSTALL 8" GATE VALVE PER UDACS PLATE 30 & 39.
 - INSTALL 1" METER WITH 1" COPPER LATERAL PER UDACS PLATES #4 W/ 1" RPPA PER UDACS PLATES #8
 - INSTALL 3" WIDE CONCRETE PAD TO COMPLETELY COVER WATER LATERALS BETWEEN METER AND RPPA
 - CONTRACTOR TO INSTALL 12"x6" TAPPING SLEEVE W/ TAPPING VALVE PER UDACS 2.24.01 B, PLATE #34 & 39.
- #### SEWER
- INSTALL 48" TYPE I SANITARY SEWER MANHOLE PER DCSWCS SD-1, SD-4, AND SINGLE 24" LID PER SD-3.
 - SEWER MAIN SIZE/MATERIAL PER PLAN. TRENCH & BACKFILL PER DCSWCS SD-17.
 - INSTALL 4" SDR-35 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.
 - CONNECT TO EXISTING SEWER PER CLV# 107-V2884
 - STUB & PLUG W/ THRUST BLOCK PER DCSWCS 3.14 FOR FUTURE USE.
 - INSTALL 4" C-900 SEWER LATERAL & WYE PER DCSWCS SD-20, SD-17, SD-23.

FIRE SPRINKLER SYSTEM SHALL BE PLUMBED TO THE MASTER TOILET.
NO EXCEPTIONS ALLOWED

10/28/19
SOUTHWEST GAS CORPORATION
DATE

* THE DATA CONTAINED HEREIN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SOUTHWEST GAS CORPORATION MAKES NO WARRANTIES AND DOES NOT GUARANTEE THE CORRECTNESS, COMPLETENESS, OR USEFULNESS FOR ANY LOSS OR DAMAGE HOWEVER ARISING FROM THE USE OR RELIANCE ON THE DATA PROVIDED. THE FIELD LOCATION AND DEPTH OF ALL SOUTHWEST GAS FACILITIES SHOULD BE VERIFIED.

10-28-19
CLARK COUNTY 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 1500 GPM AT 20 P.S.I. RESIDUAL.

APPROVED FOR CONSTRUCTION

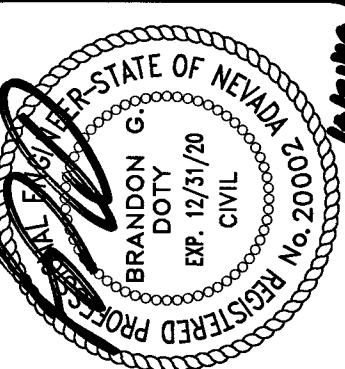
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 135700 DATE: 11/13/19
APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 26 GPM.

LVWD APPROVAL IS VALID FOR ONE (1) YEAR FROM SIGNATURE DATE. IF NOT CONSTRUCTION HAD NOT STARTED, PLANS MUST BE RESUBMITTED FOR REVIEW AND APPROVAL.

SHEETS 1-6, 12-27

PW19-12332
L 19-01110 307x1178

UTILITY PLAN 3
DURANGO & HICKAM
BY D.R. HORTON



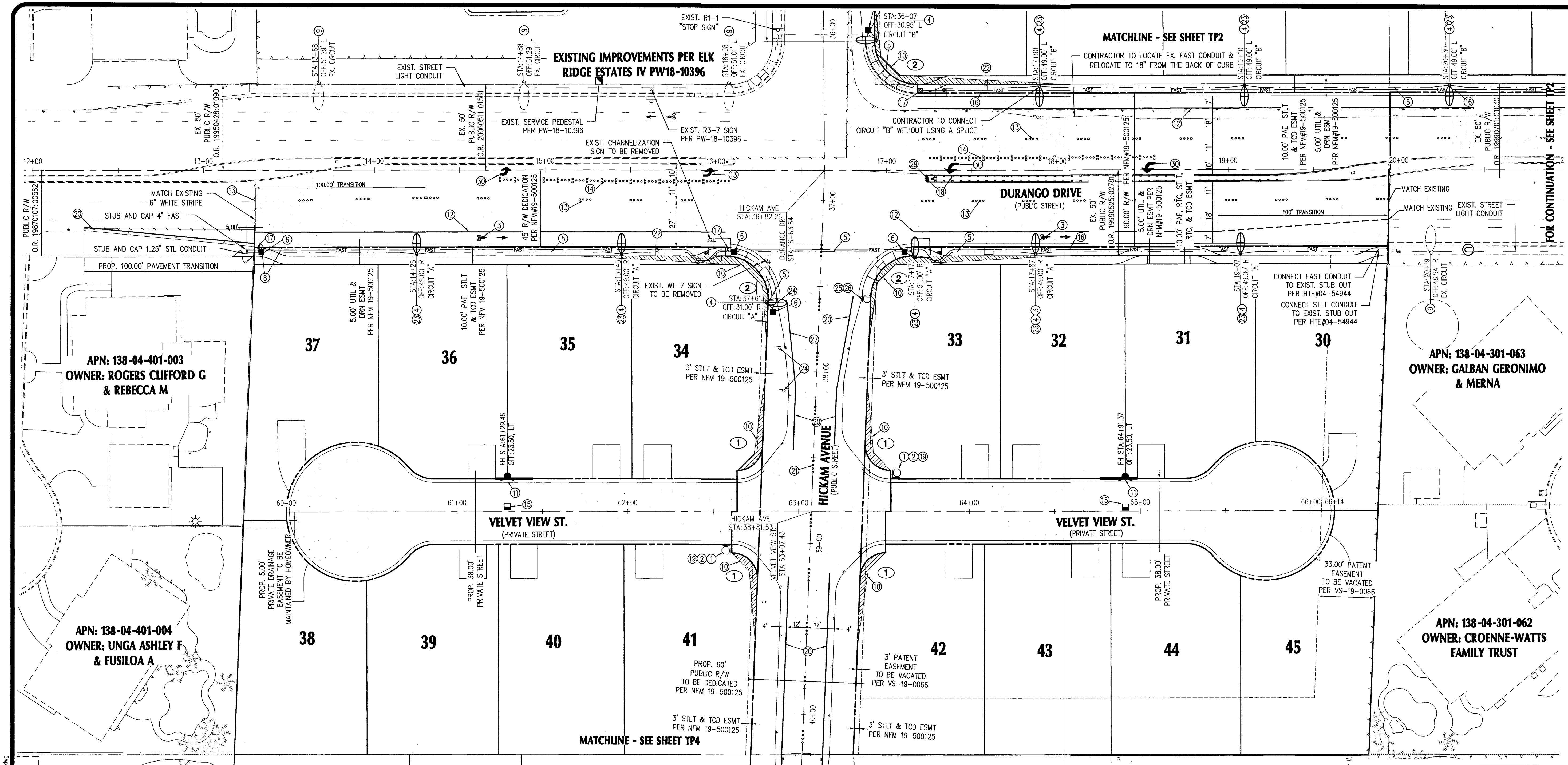
ADVANTAGE CIVIL DESIGN GROUP, LLP
2920 N. GREEN VALLEY PKWY.
BLDG. 4 STE. #422
HENDERSON, NEVADA 89014
Office: 702.452.2294
Fax: 702.456.2294
Email: WAL@ADVANTAGECIVIL-LLP.COM
CONSULTING
CIVIL ENGINEERING
PLANNING

NO.	DATE	DESCRIPTION
1	10/28/19	ISSUED FOR PERMIT
2	11/13/19	APPROVED FOR CONSTRUCTION

JOB NUMBER: 02-050
DRAWN BY: CW
CHECKED BY: BGD
DATE: OCTOBER, 2019

UP3 26 31

DWG PATH: W:\Work\050 Durango & Hickam\Drawings\TP2-050-TRAFFIC.dwg
PLOT TIME: 13:22:19
PLOT DATE: 10-21-19



NOTE:
REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.

SIGHT VISIBILITY NOTE:
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 SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

NOTE:
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- TRAFFIC NOTES**
- INSTALL (2) 8" D-3 STREET NAME SIGNS, INITIAL UPPERCASE LETTER IS "S" SERIES C AND LOWERCASE LETTERS ARE "S" SERIES C, PRIVATELY MAINTAINED.
 - INSTALL 30" R1-1 STOP SIGN.
 - INSTALL BICYCLE LEGEND AND SIGN PER CCAUSD #244.9 & #246.5.
 - INSTALL STREET LIGHTS FOR 100' R/W FROM QUALIFIED PRODUCTS LIST AND FOUNDATION PER CCAUSD #300.53, 306.52, 311, 314, 320 & 321.
 - INSTALL 1-1/4" STREETLIGHT CONDUIT W/ (2) NO. 4 & (1) NO. 8 AWG THW-2 OR THW-2 COPPER CONDUCTORS W/PULL STRING, PER CCAUSD #313 AND #321.
 - INSTALL NO 3 1/2" PULL BOX PER CCAUSD #705.
 - REMOVE AND SALVAGE EXISTING SIGN AND POST.
 - RELOCATED EXISTING R3-17 SIGN AND POST.
 - EXISTING LUMINAIRE.
 - HATCHED AREA DENOTES SIGHT VISIBILITY ZONE PER CCAUSD #201.2.
 - RED PAINTED CURB 15' FROM CENTERLINE OF HYDRANT FOR A TOTAL OF 30' (CURB LENGTH PERMITTING).
 - 6" SOLID WHITE LINE PER CCAUSD #244.9.
 - TYPE 4 LANE LINE DELINEATION (RPM) PER CCAUSD #244.
 - BEGIN STORAGE LANE LINE PER CCAUSD #246 (RPM).
 - INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS, OR FIRE LANES.
 - INSTALL 4" PVC FAST CONDUIT W/ #8 BARE TRACER WIRE.
 - INSTALL P30 PULL BOX W/ "FAST" INSCRIBED.
 - INSTALL MEDIAN MARKINGS PER DETAIL 5 ON SHEET DE4.
 - TO BE OWNED AND MAINTAINED BY H.O.A.
 - INSTALL 4" WHITE EDGELINE.
 - INSTALL TYPE 1 CENTERLINE PER CCAUSD #244.
 - INSTALL W11-1 & W16-1P SIGNS PER CCAUSD #246.2.
 - INSTALL R7-1A 18"x24" "NO PARKING" SIGN.

- TRAFFIC NOTES**
- INSTALL 0M3R MARKER AT 25' O.C.
 - INSTALL (2) 12" D-3 STREET NAME SIGNS, INITIAL UPPERCASE LETTER IS "S" SERIES C AND LOWERCASE LETTERS ARE "S" SERIES C, PRIVATELY MAINTAINED.
 - INSTALL 36" R1-1 STOP SIGN.
 - INSTALL 8" WHITE EDGELINE.
 - EXISTING 0M3R MARKER.
 - INSTALL FLEXIBLE K-71 MARKER POST.
 - INSTALL ARROW SYMBOL PAVEMENT MARKING FOR THE LENGTH OF THE STORAGE LANE PER CCAUSD #246.

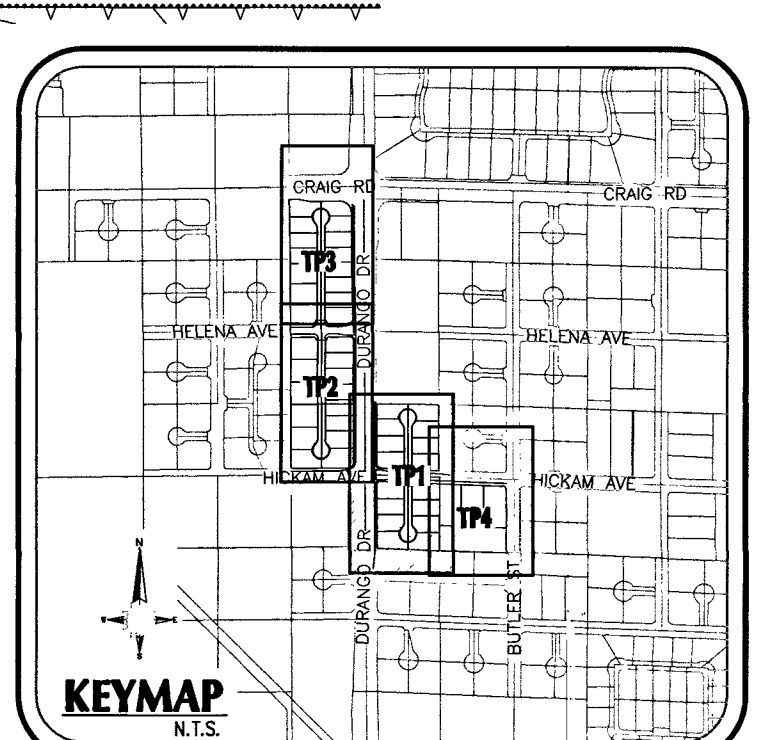
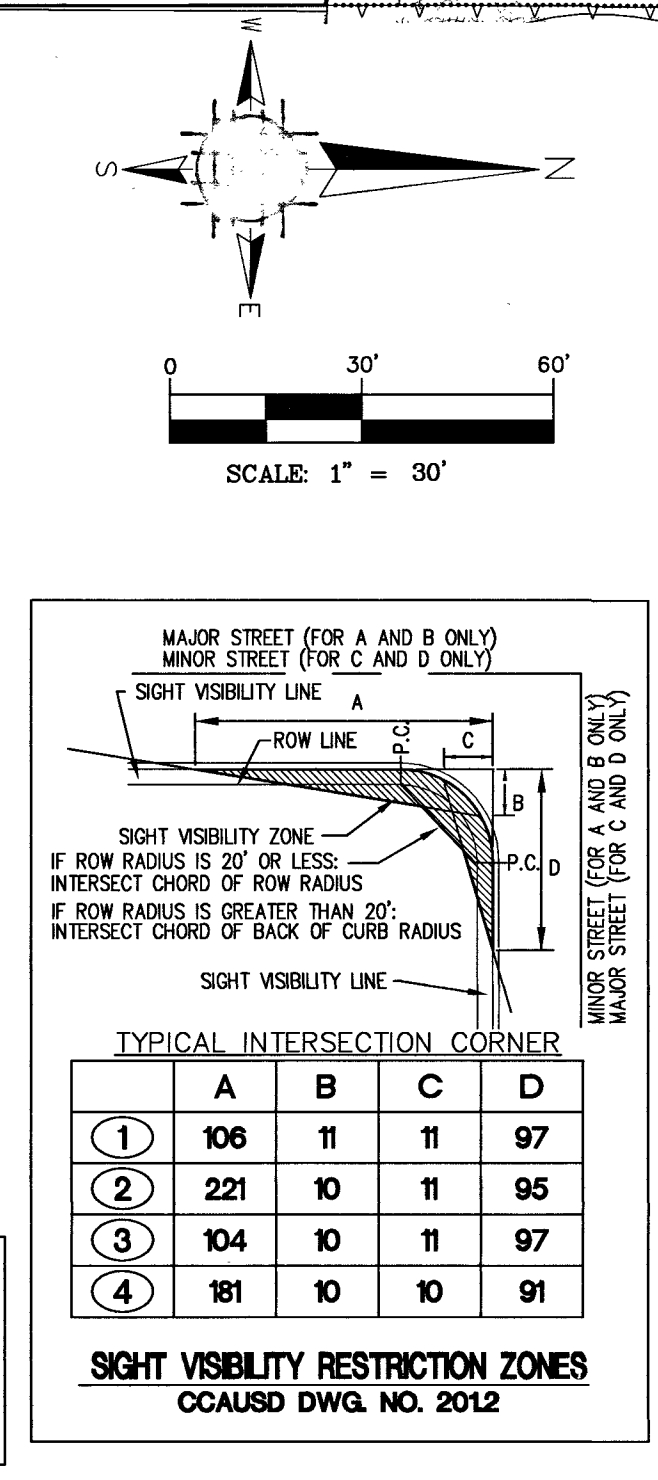
BASIS OF BEARING
NORTH 00°08'35" WEST, BEING THE BEARING OF THE EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.M., CLARK COUNTY, NEVADA AS SHOWN IN BOOK 110, PAGE 98 OF PLATS ON FILE AT THE CLARK COUNTY, NEVADA RECORDER'S OFFICE.

BENCHMARK
CLARK COUNTY VERTICAL CONTROL POINT "01V00 55EE6", BEING A CITY OF NORTH LAS VEGAS RIVET AND ALUMINUM PLATE IN TOP OF CURB, WEST SIDE OF ISLAND AT DURANGO DR. ±320' NORTH OF FLORINE AVE.

ELEVATION: 2396.78 (FEET)
730.541 (METERS)

CLARK COUNTY VERTICAL CONTROL v.2003 (REVISED 09/01/2006)
BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

SEE SHEET TP3 FOR CIRCUIT "A" STREETLIGHT CIRCUIT CAPACITY VERIFICATION & SEE SHEET TP1 FOR CIRCUIT "B" STREETLIGHT CIRCUIT CAPACITY VERIFICATION & SEE SHEET TP1



CLARK COUNTY
DEPARTMENT OF PUBLIC WORKS
ACCEPTED

BY: _____

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 ON UNIFORM TRAFFIC CONTROL DEVICES

PW19-12332
L 19-01110 307v1178

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CIVIL ENGINEERING
PLANNING

TRAFFIC PLAN 1
DURANGO & HICKAM
BY D.R. HORTON

NO.	DATE	REVISIONS	DESCRIPTION
1	10-21-19		

JOB NUMBER: 02-050
DRAWN BY: CW
DESIGNED BY: CW
CHECKED BY: BGD
DATE: OCTOBER, 2019

TP1 **28** **31**

