

STORMWATER RUNOFF MANAGEMENT

(REQUIRED FOR ALL SITES GREATER THAN 1 ACRE (43,560 SQ.FT.))

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT AND CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN TITLE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL 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 NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

BASIS OF BEARINGS

NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREON ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135, PAGE 71 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV09 345W6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

LEGAL DESCRIPTION

A PORTION OF THE NORTHWEST QUARTER (NE 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA DESCRIBED AS FOLLOWS:
LOTS L AND M OF "SUMMERLIN VILLAGE 24 - UNIT 4", AS SHOWN BY MAP THEREON ON FILE IN BOOK 154 OF PLATS, PAGE 63 IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA
CONTAINING 37.56 ACRES

SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION

GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. THERE SHALL BE A MINIMUM HORIZONTAL AND VERTICAL CLEARANCE OF 12-INCHES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND FACILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC
3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION.
4. IN THE EVENT OF NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099

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

SOUTHWEST GAS APPROVAL

[Signature]
SOUTHWEST GAS CORPORATION

5/9/17
DATE

2.2 CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE (12") DIAMETER. CONNECTIONS TO FIFTEEN (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "S" SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVMD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVMD PROJECT #136382 (REVISED 08/01/2017)

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVMD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVMD 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 LVVMD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVMD STANDARD PLATS, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS (LVVMD). THE LATEST EDITION OF UOACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVMD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVMD 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 UOACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVMD CREDIT 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 UOACS SECTION 3.14.01, AND APPROVED BY THE LVVMD 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 LVVMD APPROVED PRODUCTS LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LVVMD 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 LVVMD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.
ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ADJUTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVMD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVMD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVMD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVMD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

15. NO LEAD COMPLIANCE NOTE:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

GRADING NOTES

1. INDICATED GRADES OTHER THAN T.C., F.G. & GUTTER F.L. ARE ROUGH GRADES.
2. THE ROUGH GRADING PLANS SHALL BE ON THE JOB SITE AT ALL TIMES. THE ROUGH GRADING SHALL BE FINISHED IN CONFORMANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS. THE GRADING QUANTITIES ARE BASED ON THE ELEVATION AND DETAILS SHOWN ON THE PLANS. ANY DEVIATIONS FROM THE PLANS WILL RESULT IN QUANTITY CHANGES.
3. CARE SHALL BE EXERCISED IN GRADING CORNER LOTS.
4. ROUGH PAD ELEVATIONS SHALL BE GRADED TO WITHIN 0.1' OF THE PAD ELEVATIONS SHOWN ON THE PLANS. WHEN GRADING IS COMPLETE PER THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE LOTS CAN BE INSPECTED. AT THAT TIME THE ENGINEER SHALL ALSO DECIDE IF ANY ADDITIONAL DITCHES OR BERMS ARE REQUIRED. THE CONTRACTOR IS REQUESTED NOT TO REMOVE ANY OF HIS ROUGH GRADING EQUIPMENT UNTIL HE RECEIVES GRADING APPROVAL FROM THE ENGINEER.
5. SOLS REPORT PREPARED BY SOUTHWEST GEOTECHNICAL, PROJECT NO. 182267, DATED 7/12/18.
6. EARTHWORK QUANTITIES (RAW):
- CUT = 23.900 CUBIC YARDS
- FILL = 51.700 CUBIC YARDS
A) THE ABOVE QUANTITIES DO NOT REFLECT LOSSES DUE TO SUBSIDENCE OR SHRINKAGE.
B) THE ABOVE QUANTITIES DO REFLECT USING NATIVE MATERIAL IN LIEU OF TYPE I GRAVEL BASE MATERIAL FOR STREET SECTIONS.
C) THE ABOVE QUANTITIES DO NOT REFLECT ANY EARTHWORK WHICH MAY BE REQUIRED BY THE ENGINEER TO CONSTRUCT ADDITIONAL PROTECTIVE DITCHES OR BERMS NOT SHOWN ON THESE DRAWINGS.

CITY OF LAS VEGAS FIRE AND RESCUE GENERAL NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE (ORDINANCE # 633), FOR HYDRANT SPECIFICATIONS, AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICTS - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK [FC 105.1.2]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE FLOW [FC 3310, 3312]
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [FC 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE, AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [FC 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [FC 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL PLACEMENT FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [FC 507.5.7.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE. FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [FC 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [FC C102]
- RESIDENTIAL - 600 FT UNSPRINKLERED; 600 FT SPRINKLERED
- COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED
12. WHERE NEW WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1,000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS, WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY. HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [FC C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIIUS OF A CUL-DE-SAC OR WITHIN 20 FEET OF THE PERIMETER OF THE RADIIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. [FC C102.12]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. [FC C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. [FC C102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [FC C102.8]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE ARE 4 OR MORE FIRE HYDRANTS/SPRINKLER HEADS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [FC C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [FC 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FEET PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [FC 503.2.7, 503.2.8]
21. THE TURNING RADIIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FEET OUTSIDE AND 28 FEET INSIDE TURNING RADIIUS. [FC 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13 FT 6 INS. [FC 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 40 FT FLOW LINE TO FLOW LINE WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE FLOW LINE TO FLOW LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE FLOW LINE TO FLOW LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LINES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [FC 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THE DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [FC 503.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROADS WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 800 FT. COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [FC 503.1.2]
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [FC 503.2.5]
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FEET ALONG THE DESIGNATED FIRE LANE. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [FC 503.3]
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SADS SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE FC 503.6 AND FC APPENDIX M.

2.5 CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION, ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:
HORIZONTAL VERTICAL COMPACTION
A. PAVEMENT AREA SUBGRADE 0.1" ± +0.0 TO -0.1" SEE SOLS REPORT
B. ENGINEERED FILL 0.5" ± -0.1 TO -0.1" SEE SOLS REPORT
COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

UTILITY LOCATION NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS. CALL BEFORE YOU DIG: 1 (800) 227-2600, SOUTHWEST GAS CORPORATION: 702-400-1789 (STANDBY CONTACT NUMBER)

2.1 CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY 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 APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE UNIFORM BUILDING CODE, AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
 2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CIVIL PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
 3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN OR BE PLACED FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
 4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
 5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON PROJECT.
 6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
 7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTENDED-TYPE CURB.
 8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE UP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
 9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
 10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
 11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
 12. ALL GRADING WORK SHALL CONFORM TO THE SOLS REPORTS AS PREPARED BY SOUTHWEST GEOTECHNICAL, REPORT #182267, 7/12/18 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.E.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
 15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
- WALL NOTES:
1. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS, FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
 2. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
 3. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
 4. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
 5. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC., THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
 6. 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 THE PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND 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 MAP(S) MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTANTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATION 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).
 7. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
 8. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

2.3 CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADES, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON URBAN TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUPILS MUST CROSS THE ROAD, THE CONTRACTOR SHALL BE ASSIGNED TO BE ASSURED IN THE SAFE CROSSING THROUGH THAT WORK ZONE. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE DELIBERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROMISING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VP CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL. ALL NEW TRAFFIC SIGNS, EXCEPT STREET NAME AND SCHOOL SPEED LIMIT SIGNS, SHALL HAVE 3M SERIES 1180 OR APPROVED EQUIVALENT ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. SCHOOL ZONE SIGNS SHALL HAVE 3M SERIES 1150 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR EXTERIOR TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5) FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE INSTALLED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ON THE PORTIONS OF THE ROAD(S) BEING REMOVED HEREUNDER. RECORDING HERE OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR MESA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION WILL CAUSE A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKING AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

2.4 CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USS), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LITE FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CIVIL WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.
4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.
5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. 8B AND WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC. SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USS NO. 302A. WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
7. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE ASBUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARED.
8. SERVICE POINT SHALL BE COORDINATED WITH NY ENERGY, AND WHENEVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CORDON. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

DEVIATIONS FROM STANDARDS

NONE

SOUTHWEST GAS APPROVAL

[Signature]
SOUTHWEST GAS CORPORATION

5/9/17
DATE

APPROVED FOR CONSTRUCTION

[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO.: 136382 FIRST APPROVED DATE: 5/13/19



SLATER HANIFAN GROUP

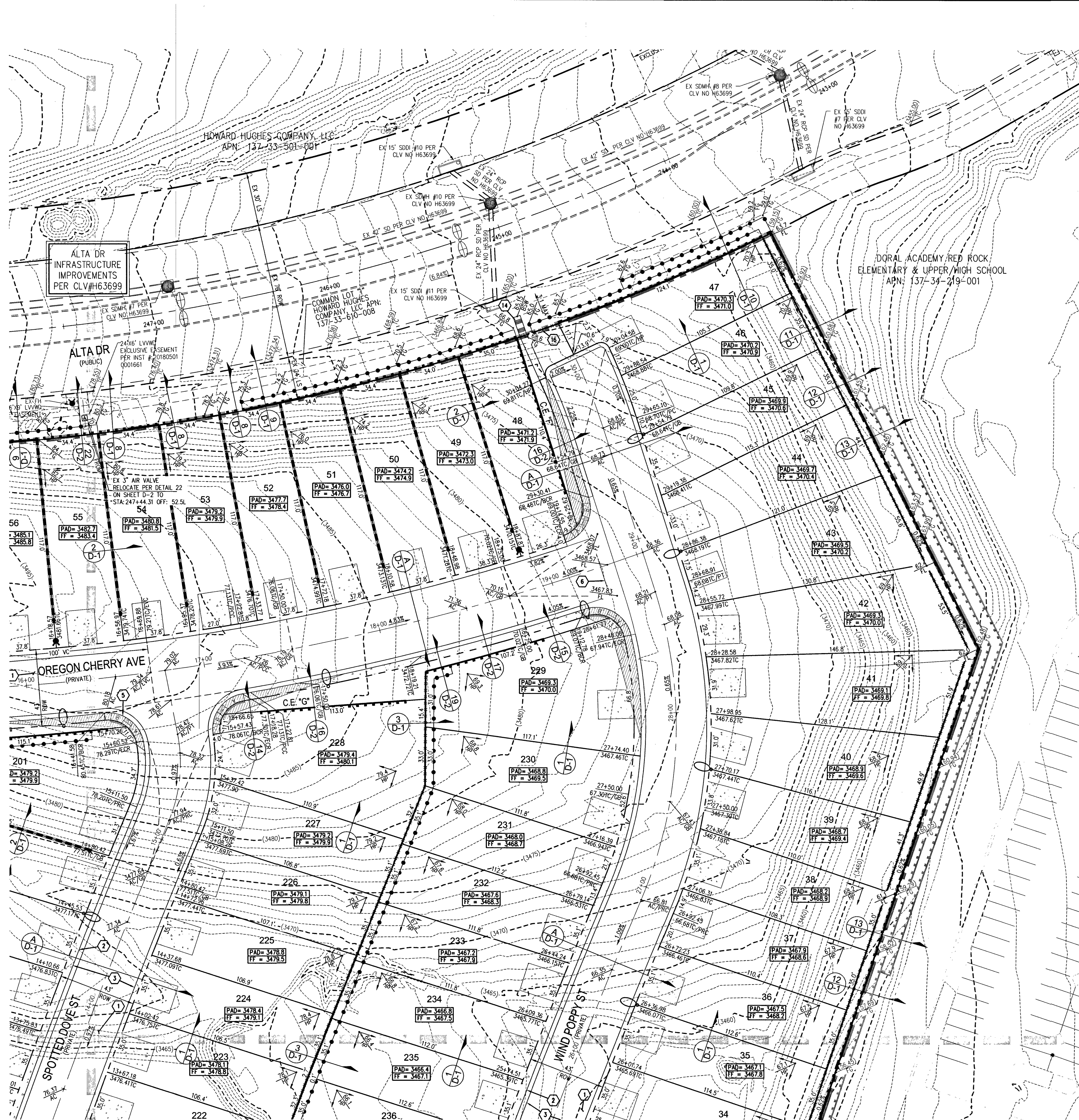
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A Westwood team

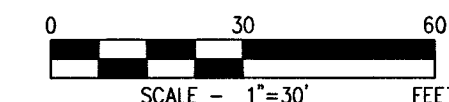
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SEE SHEET G-1 FOR CONTINUATION



SEE SHEET G-4 FOR CONTINUATION

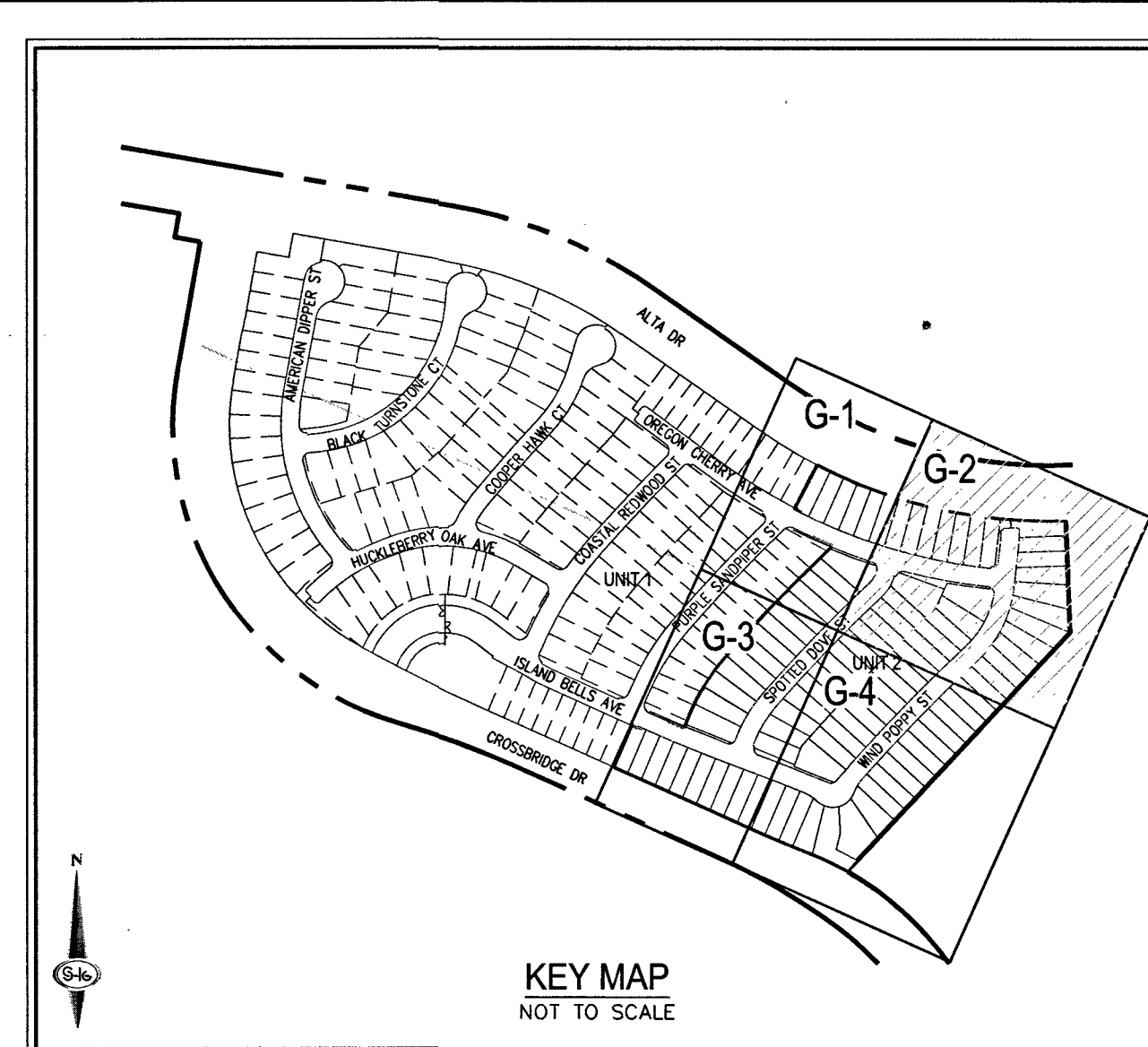


SURVEY NOTE
OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOLETE DURING CONSTRUCTION.

SOILS REPORT
SOILS REPORT BY SOUTHWEST GEOTECHNICAL PROJECT NO. 182267 DATED 7/12/18

EARTHWORKS
EARTHWORK QUANTITIES (RAW):
CUT = 23,800 CU YDS
FILL = 51,700 CU YDS
EXPORTED MATERIAL TO BE DISPOSED OF AT AN APPROVED LICENSED DISPOSAL FACILITY OR AT A SITE WITH AN APPROVED AND ACTIVE GRADING PERMIT.

DRAINAGE IMPROVEMENT QUANTITIES		
1. 30" RCP STORM DRAIN	LF	64
2. 42" RCP STORM DRAIN	LF	72
3. 12.5" TYPE "CM2" DROP INLET	EA	1
4. 20" TYPE "CM2" DROP INLET	EA	1
5. 48" TYPE III STORM DRAIN MANHOLE	EA	1
6. 8" WIDE CONCRETE VALLEY GUTTER	EA	2
7. REMOVE 5'x2' NDOT TYPE 2A DROP INLET	EA	1



LEGAL DESCRIPTION
LYING WITHIN THE NORTH EAST QUARTER (NE1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 58 EAST, M.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

EASEMENT NOTES
1. ALL PRIVATE STREETS ARE P.U.E. PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.
2. ALL COMMON ELEMENTS ARE PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

GRADING NOTES
1. SEE SHEETS 16-19 FOR RETAINING WALL ELEVATIONS.
2. FINAL GRADES ADJACENT TO STRUCTURES SHALL BE IN CONFORMANCE WITH IBC 2012, SECTION 2304.1.2.2.
3. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ENGINEER.
4. ALL IMPROVEMENTS TO BE PROTECTED FROM EROSION BY SWPPP.
5. MAXIMUM/MINIMUM SLOPES AND MINIMUM STREET SECTIONS NOT TO EXCEED THAT SHOWN ON GEOTECH REPORT.
6. SEE DETAIL SHEET FOR STREET SECTIONS AND DETAILS.
7. ALL PUBLIC AND PRIVATE DRAINAGE IMPROVEMENTS TO BE BONDED FOR AND INSPECTED.
8. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE CITY OF LAS VEGAS BUILDING DEPARTMENT.
9. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT IN PLACE DURING CONSTRUCTION. ENGINEER/OWNER SHALL BE NOTIFIED OF PRIOR DAMAGE TO EXISTING FACILITIES PRIOR TO CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIR/REPLACING FACILITIES IF ENGINEER/OWNER IS NOT NOTIFIED OF EXISTING DAMAGE PRIOR TO CONSTRUCTION COMMENCING.
10. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.

FLOOD ZONE
THE PROJECT SITE IS LOCATED WITHIN A FEMA DESIGNATED ZONE X (UNSHADED) AS DEPICTED ON FLOOD INSURANCE RATE MAP (FIRM) PANEL 32003C2125E & 32003C2150E, DATED SEPTEMBER 27, 2002. A ZONE X (UNSHADED) IS DESCRIBED AS AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.

DISCLAIMER NOTE
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2. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

BENCHMARK
CITY OF LAS VEGAS BENCHMARK 7LV09 34SW6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

BASIS OF BEARINGS
NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 58 EAST, M.D.M. CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 133, PAGE 71 OF PLATS.

CONSTRUCTION NOTES
1. INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE.
2. CONSTRUCT 4" WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK 1/2" TYPE II AGGREGATE BASE).
3. INSTALL MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217.1.
4. INSTALL 10' 1" TYPE CURB TO MODIFIED ROLL CURB TRANSITION PER DETAIL 25, SHEET D-3.
5. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER DETAIL 28, SHEET D-3.
6. CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228.
7. INSTALL 30" RCP STORM DRAIN PIPE.
8. INSTALL 42" RCP STORM DRAIN PIPE.
9. INSTALL 12.5" TYPE "CM2" DROP INLET PER CCAUSD NO. 412.1 AND STORM WATER QUALITY MANAGEMENT STAMP PER CCAUSD NO. 421.
10. INSTALL 20" TYPE "CM2" DROP INLET WITH ALTERNATE CONNECTION PER CCAUSD NO. 412.1 AND STORM WATER QUALITY MANAGEMENT STAMP PER CCAUSD NO. 421.
11. INSTALL 48" TYPE III SDMH CCAUSD NO. 401, 402 & 406.
12. REMOVE EX 4.5'x8" NDOT TYPE 2A DROP INLET AND APRON.
13. REMOVE AND REINSTALL 8" WIDE SIDEWALK PER CCAUSD NO. 234.
14. INSTALL 10 STEPS @ 4.1".
15. INSTALL WROUGHT IRON MAN GATE.
16. INSTALL WROUGHT FENCE PER CCAUSD NO. 425.51.
17. INSTALL THROUGH WALL DRAIN BLOCK PER DETAIL 24, SHEET D-2.
18. SAWCUT AND MATCH EXISTING IMPROVEMENTS (3" AC/6" TYPE STRIPING TO BE REPLACED).
SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

FLOOD CERTIFICATION
I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY 055039 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.
Timothy M. Mulrooney 5/8/19
TIMOTHY M. MULROONEY, P.E. 22938 DATE



SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

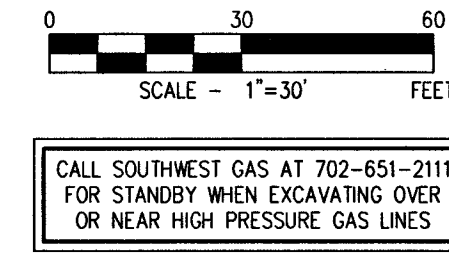
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SEE SHEET G-3 FOR CONTINUATION

SEE SHEET G-2 FOR CONTINUATION

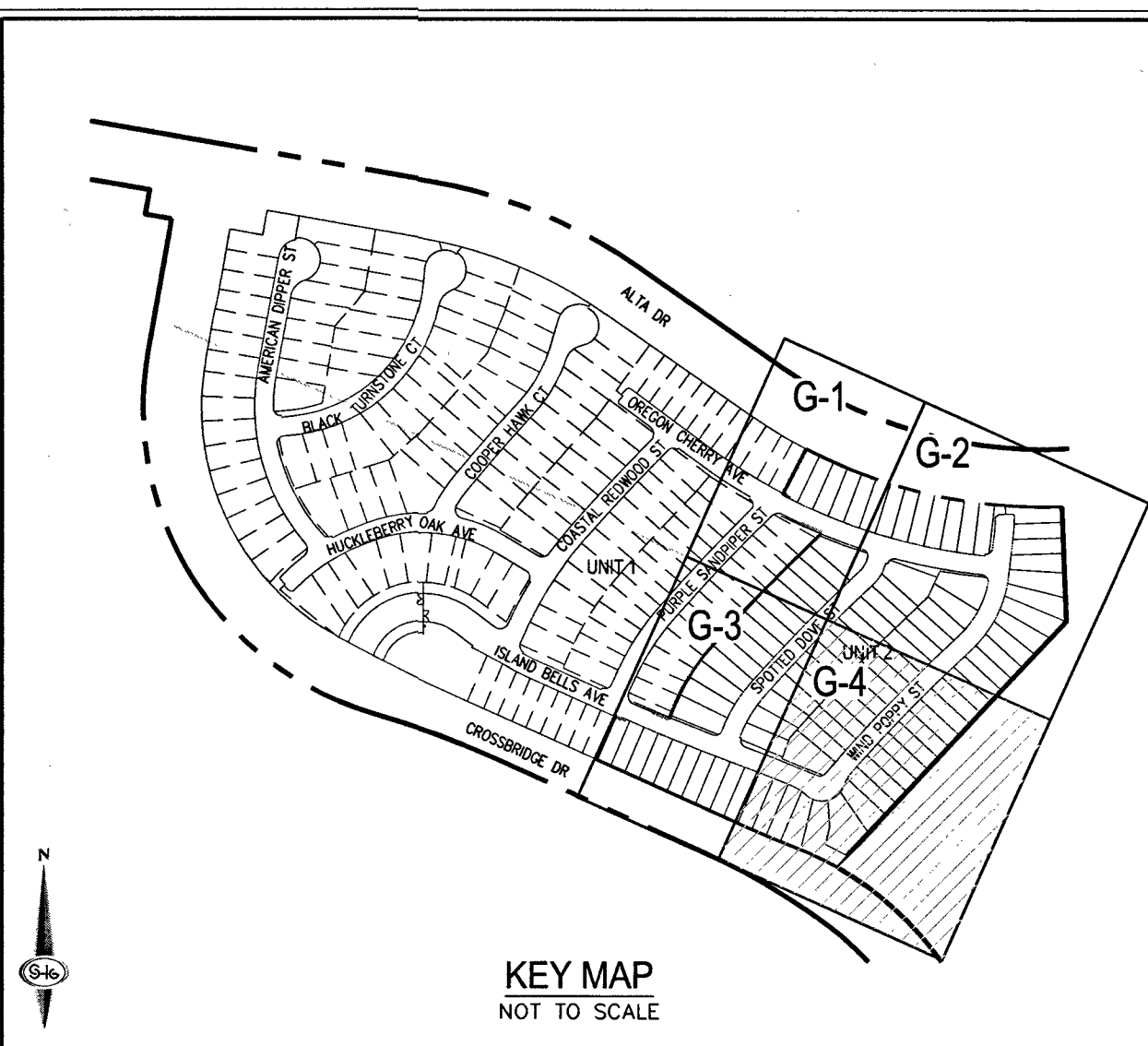


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SOILS REPORT BY SOUTHWEST GEOTECHNICAL PROJECT NO. 182267 DATED 7/12/18

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2. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROPOSED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

BENCHMARK
CITY OF LAS VEGAS BENCHMARK 7LV09 345W6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

BASIS OF BEARINGS
NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135, PAGE 71 OF PLATS.

CONSTRUCTION NOTES
1. INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE.
2. CONSTRUCT 4' WIDE SIDEWALK PER CCAUSO NO. 234 (5" THICK 1/2" TYPE II AGGREGATE BASE).
3. INSTALL MODIFIED ROLL TYPE CURB PER CCAUSO NO. 217.1.
4. INSTALL 10' 1" TYPE CURB TO MODIFIED ROLL CURB TRANSITION PER DETAIL 25, SHEET D-3.
5. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED EDGES OR EQUIVALENT PER DETAIL 26, SHEET D-3.
6. CONSTRUCT 8' CROSS GUTTER PER CCAUSO NO. 228.
7. INSTALL 30" RCP STORM DRAIN PIPE.
8. INSTALL 42" RCP STORM DRAIN PIPE.
9. INSTALL 12.5' TYPE "CM2" DROP INLET PER CCAUSO NO. 412.1 AND STORM WATER QUALITY MANAGEMENT STAMP PER CCAUSO NO. 421.
10. INSTALL 20' TYPE "CM2" DROP INLET WITH ALTERNATE CONNECTION PER CCAUSO NO. 412.1 AND STORM WATER QUALITY MANAGEMENT STAMP PER CCAUSO NO. 421.
11. INSTALL 48" TYPE III SDMH CCAUSO NO. 401, 402 & 406.
12. REMOVE EX 4.5'x6" NDOT TYPE 2A DROP INLET AND APRON.
13. REMOVE AND REINSTALL 8' WIDE SIDEWALK PER CCAUSO NO. 334.
14. INSTALL 10 STEPS @ 4.1".
15. INSTALL WROUGHT IRON MAN GATE.
16. INSTALL WROUGHT FENCE PER CCAUSO NO. 425.51.
17. INSTALL THROUGH WALL DRAIN BLOCK PER DETAIL 24, SHEET D-3.
18. SAWCUT AND MATCH EXISTING IMPROVEMENTS (3" AC/6" TYPE II OR SCARBY NATIVE) PER CCAUSO NO. 500.2 EXISTING STRIPING TO BE REPLACED.
SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

FLOOD CERTIFICATION
I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY 055032 ON FILE AT CITY OF LAS VEGAS FOR THE SUBJECT PROJECT.
5/8/19 DATE

FAST
Call before you Dig
UnderGround
1-702-432-5300
FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

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

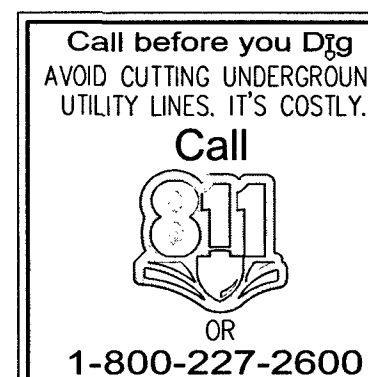
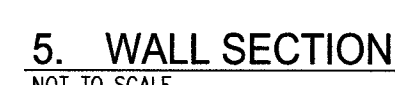
Call before you Dig
AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call 811
OR
1-800-227-2600

SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

KBHOME
BRISTLE VALE - UNIT 2
GRADING PLAN IV

33-205 R 59E
DATE: 5/8/19
DRAFTER: OQ
DESIGNER: OQ
CHECKED: DSP
PROJECT NO.
KBH1804-000

G-4
SHEET 7 OF 29
L19-00527
107Y5102-2

[illegible]

LAS VEGAS, NV

KB HOME
BRISTLE VALE - UNIT 2
DETAIL SHEET 1

33
20S
E0E

DATE: 5/8/19

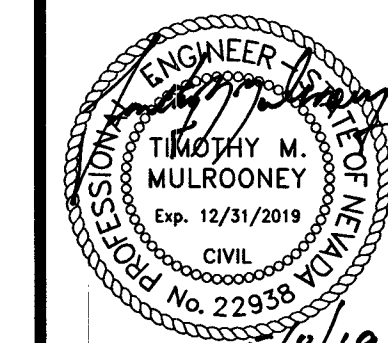
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DESIGNER: OQ

CHECKED: DSP

PROJECT NO.

KBH1804-000

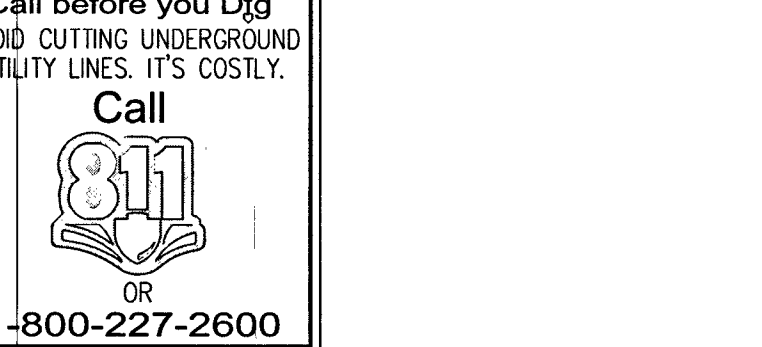
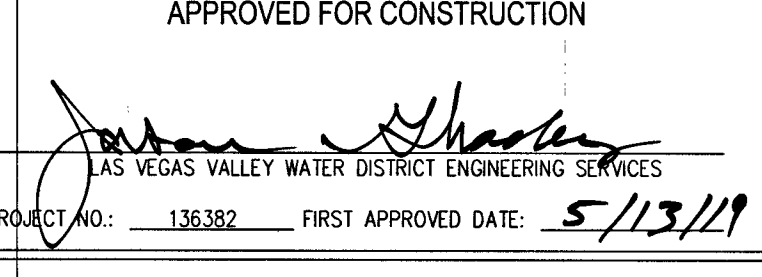
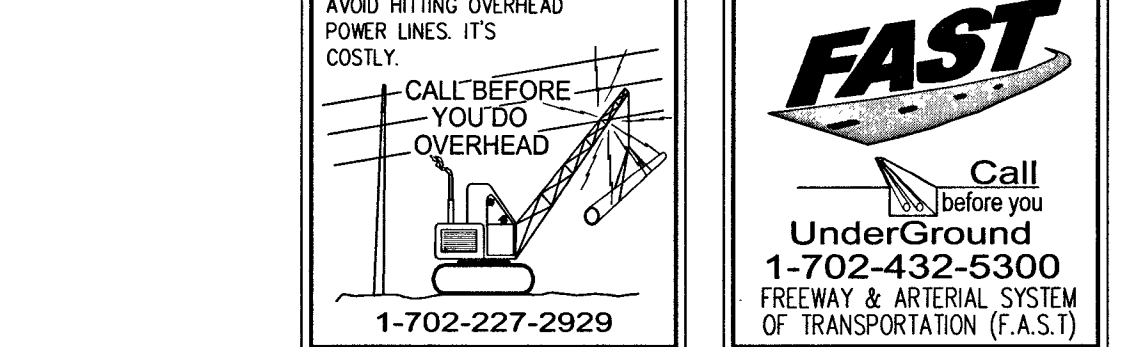
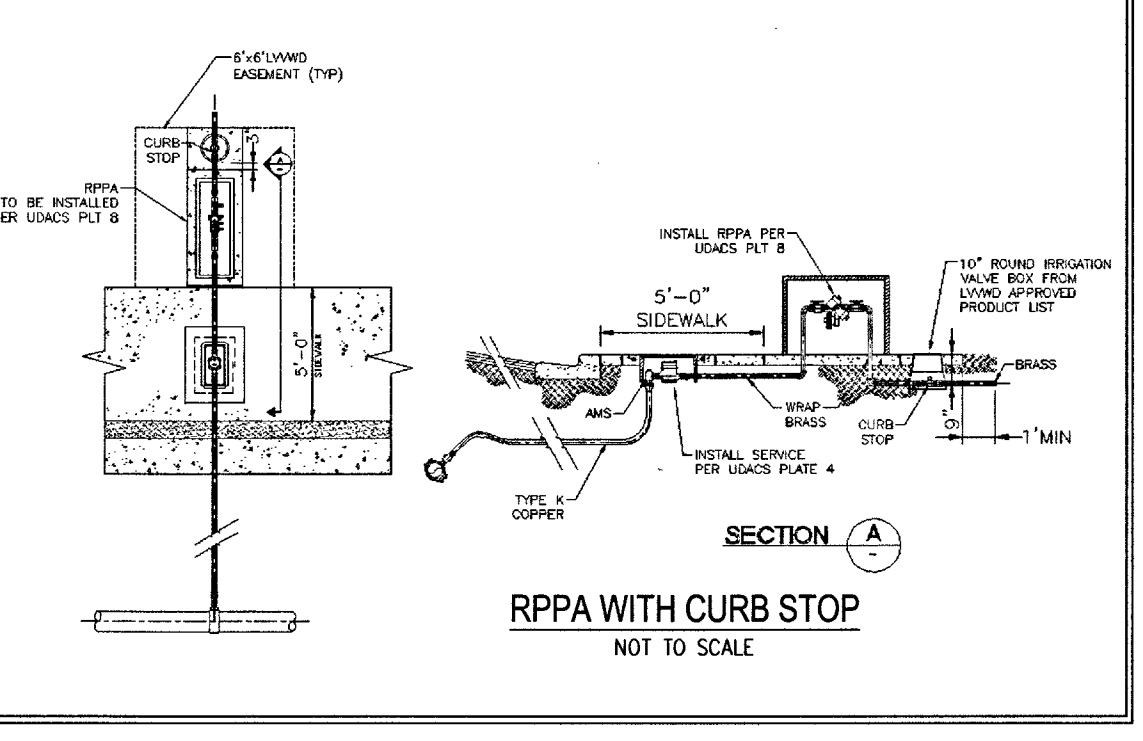
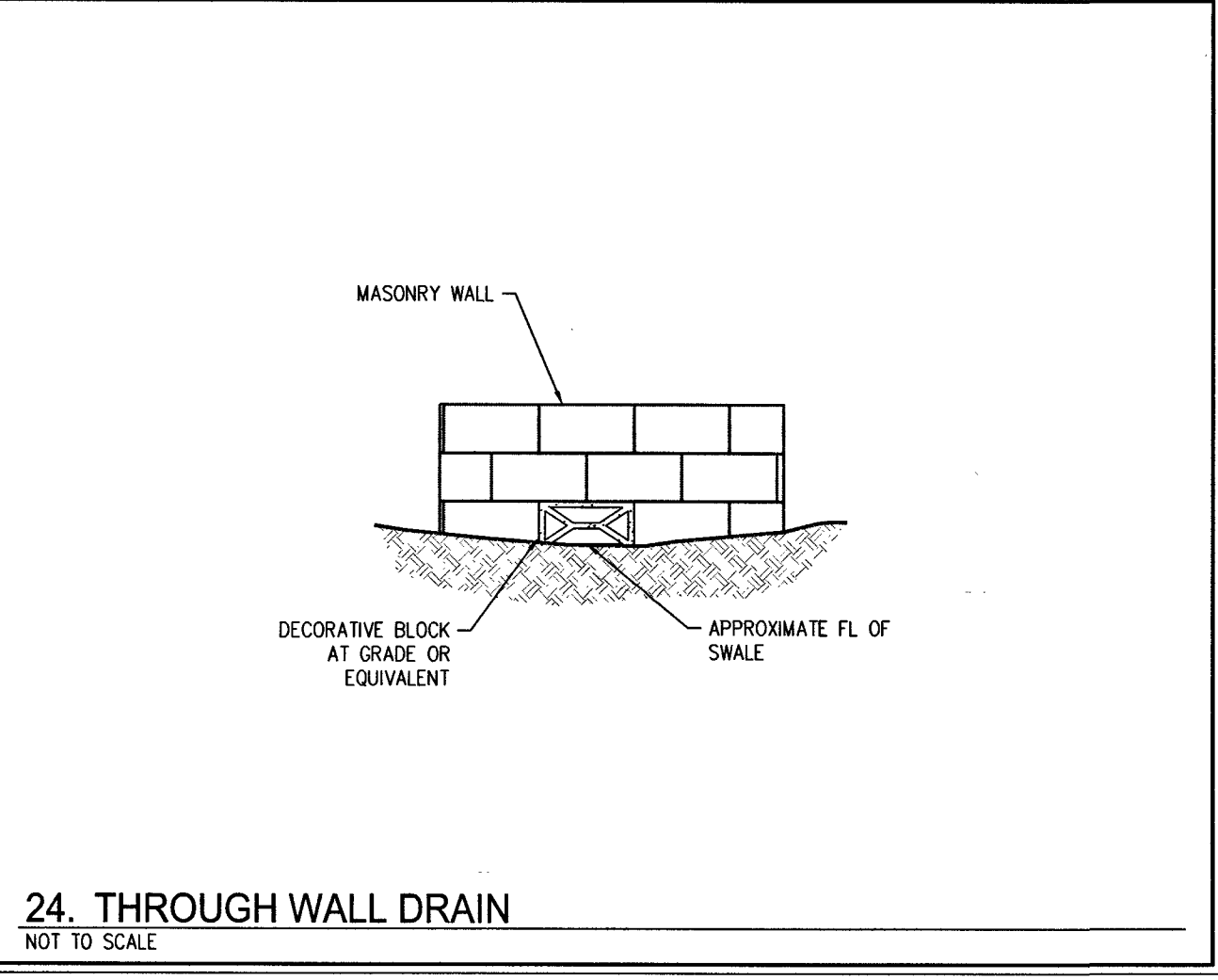
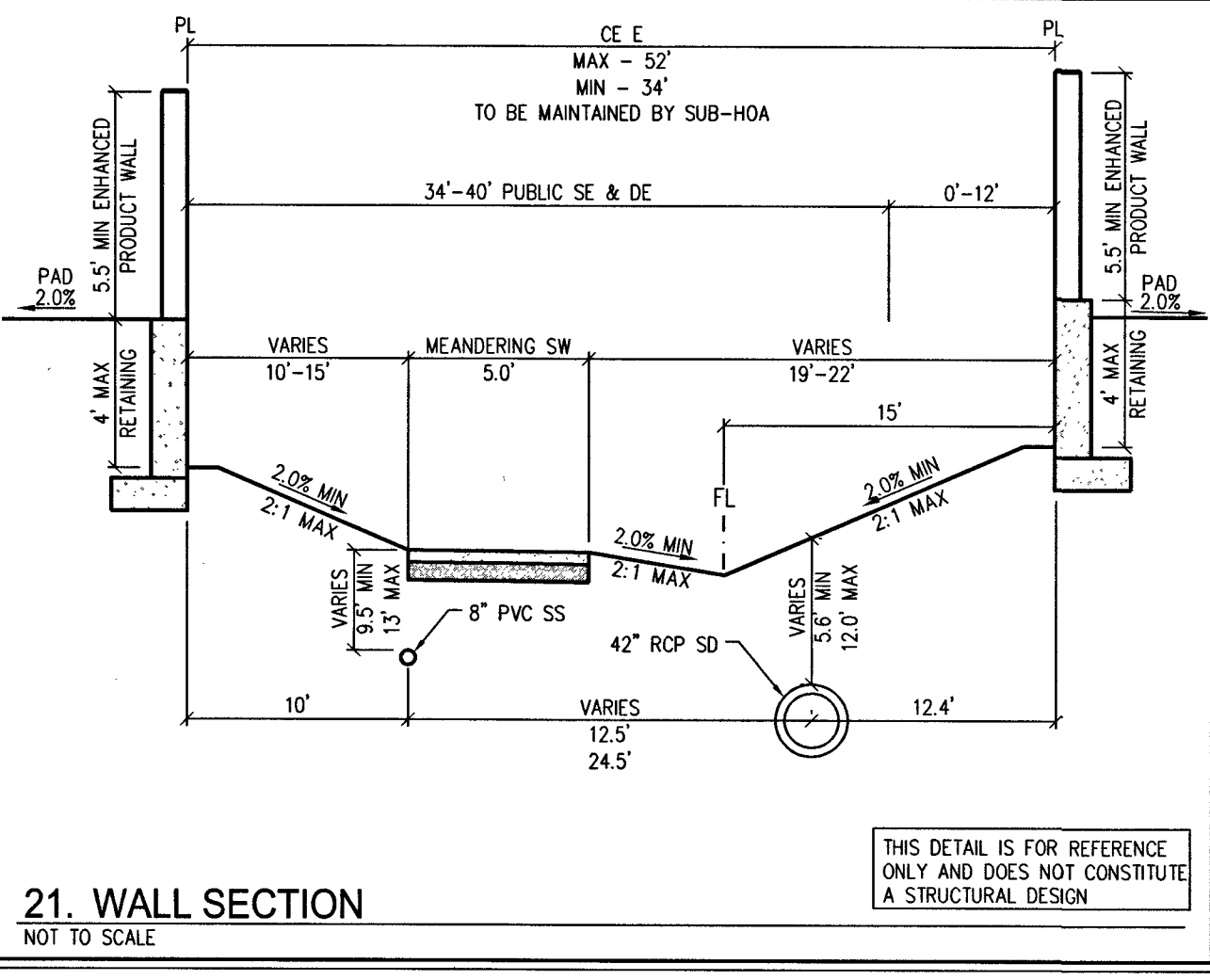
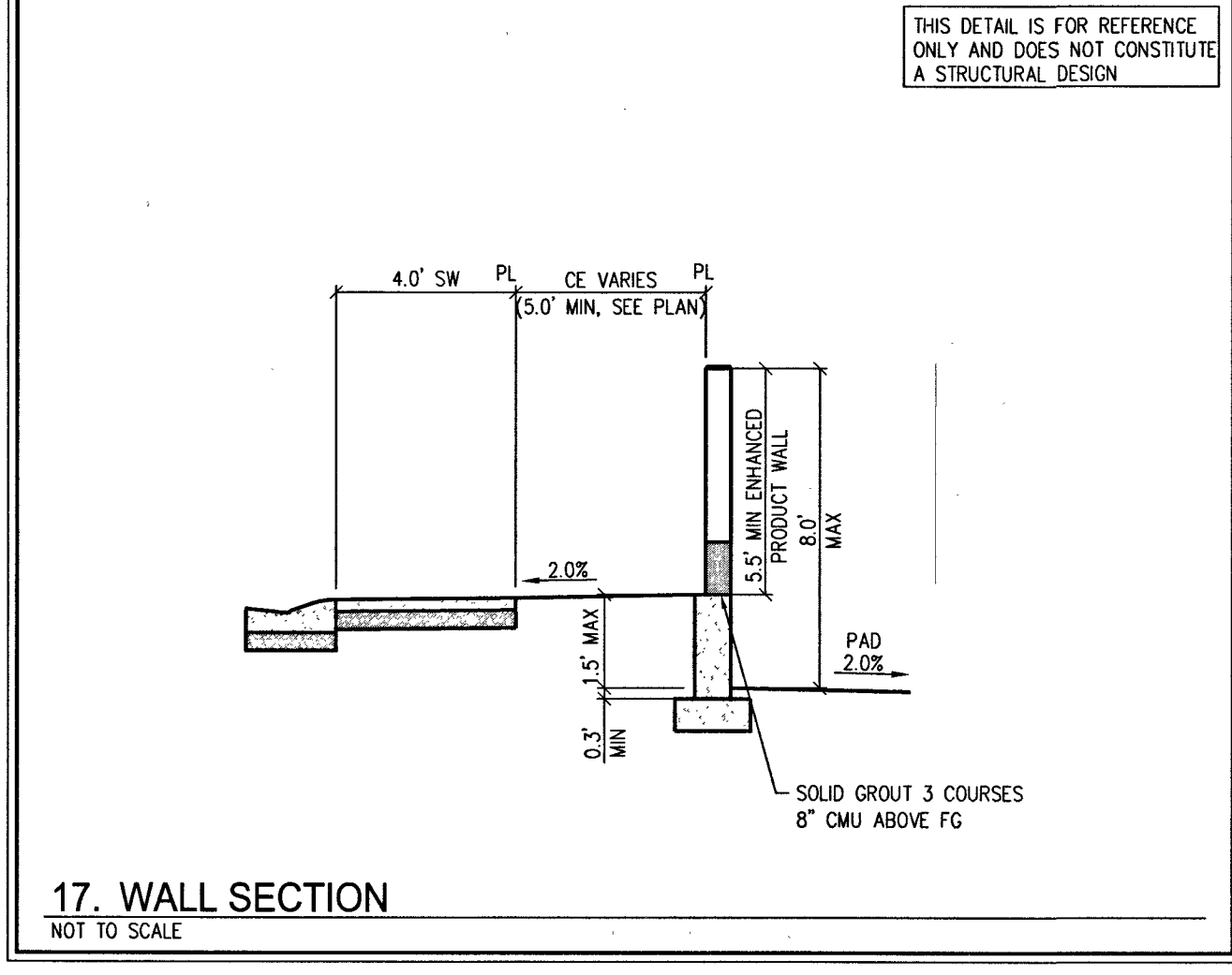
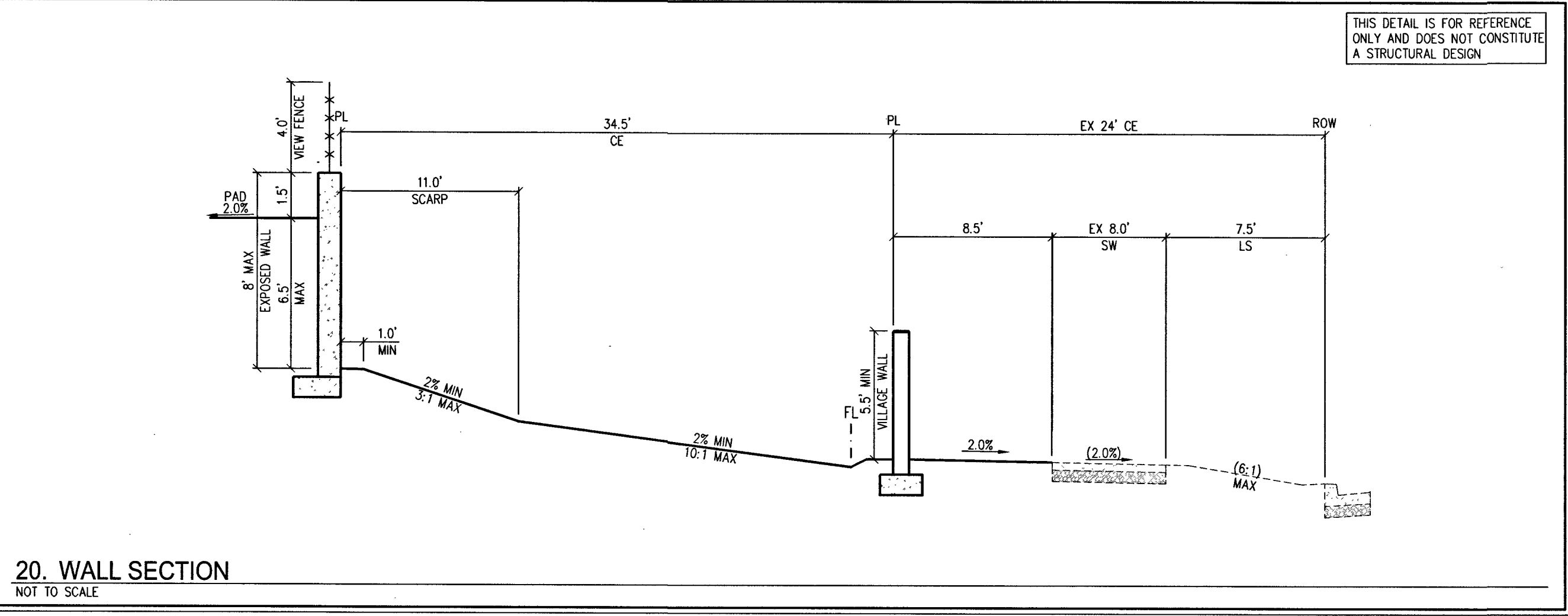
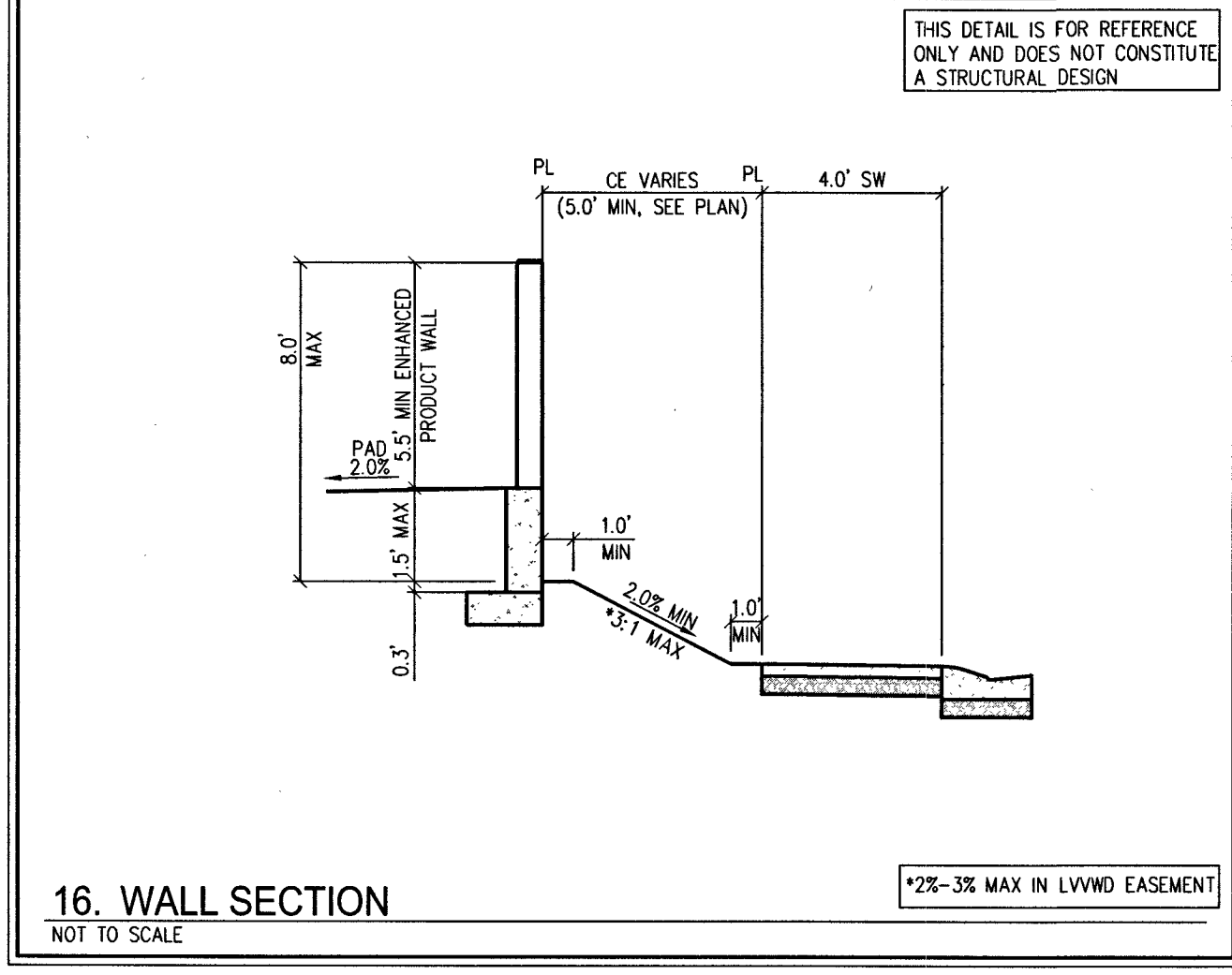
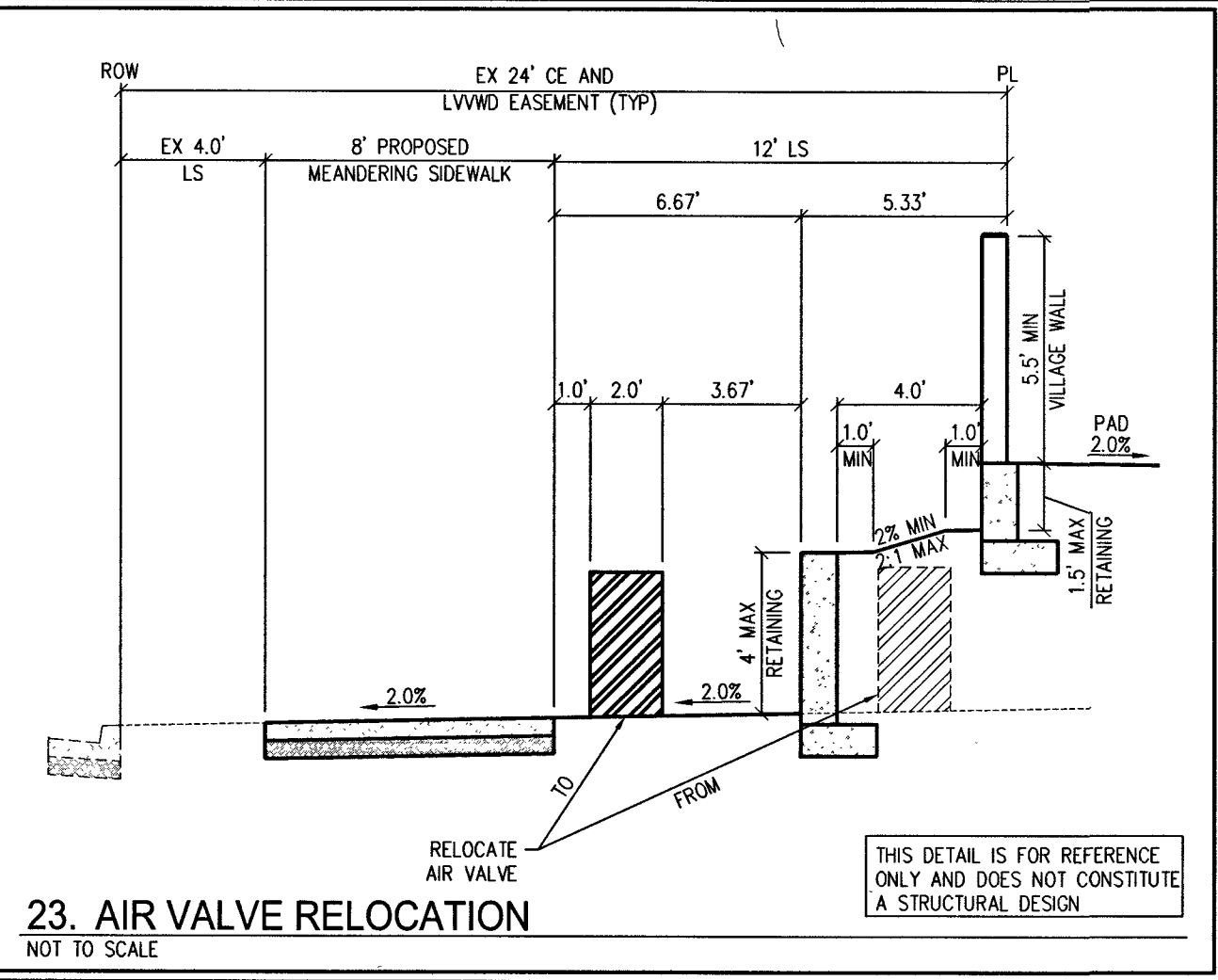
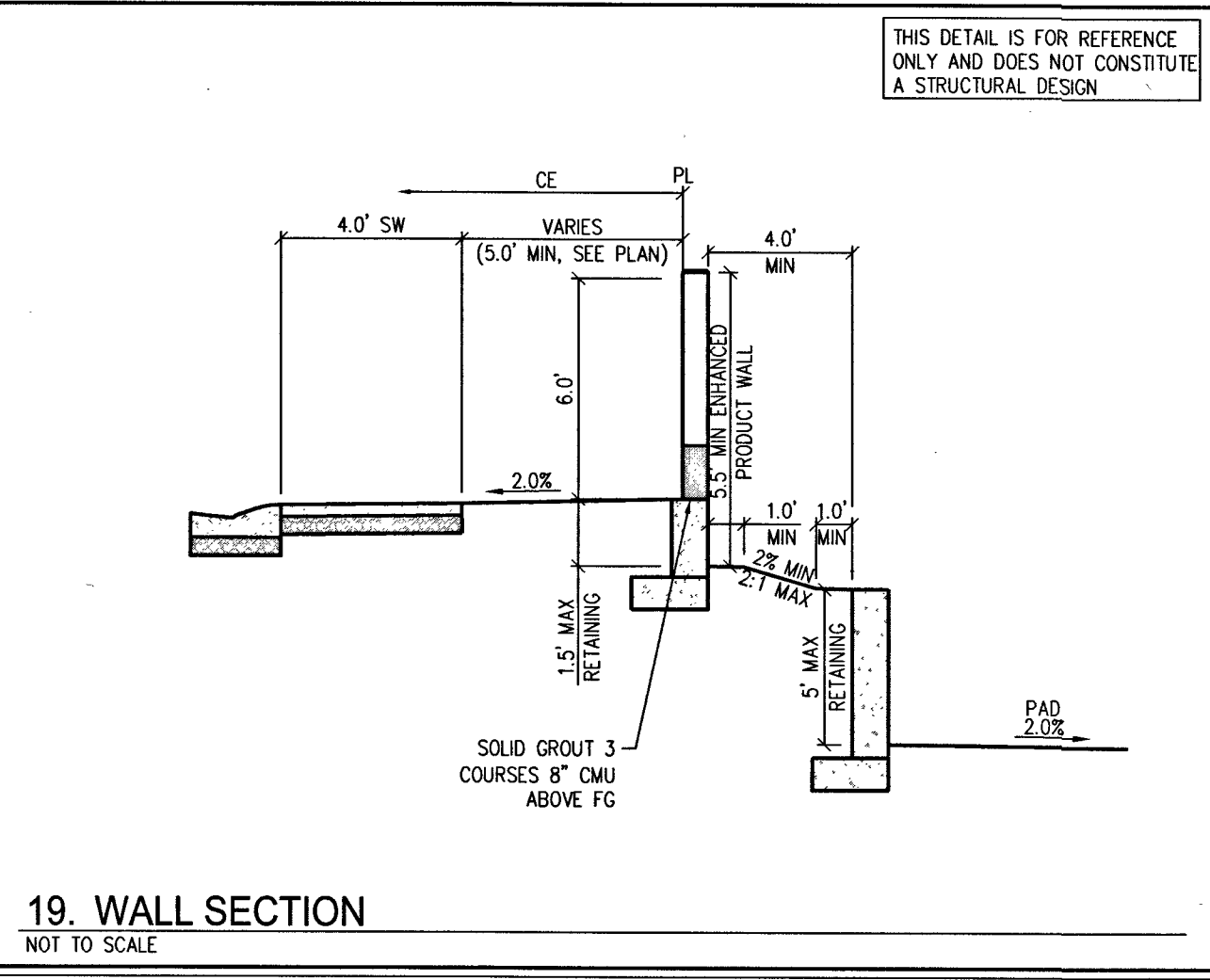
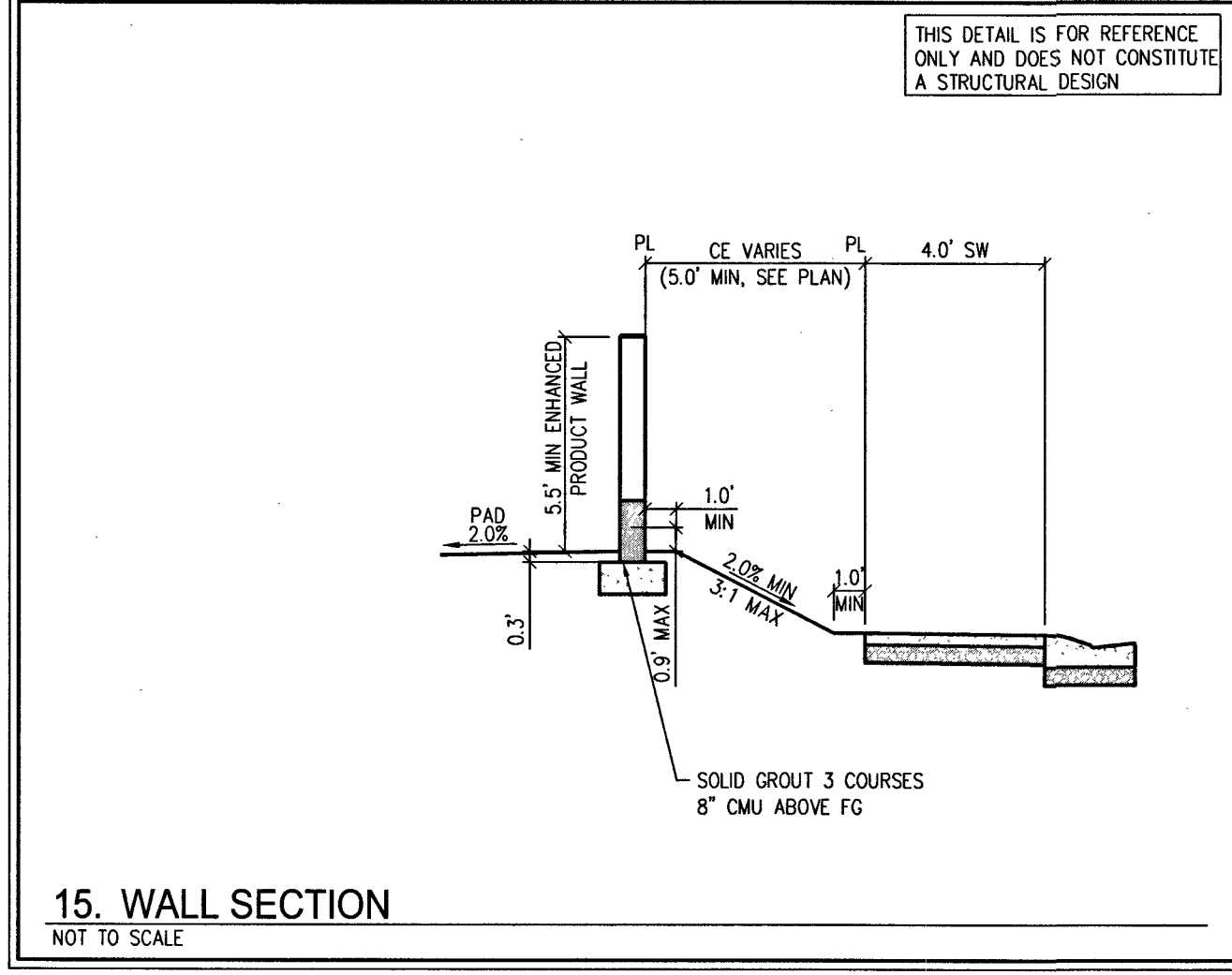
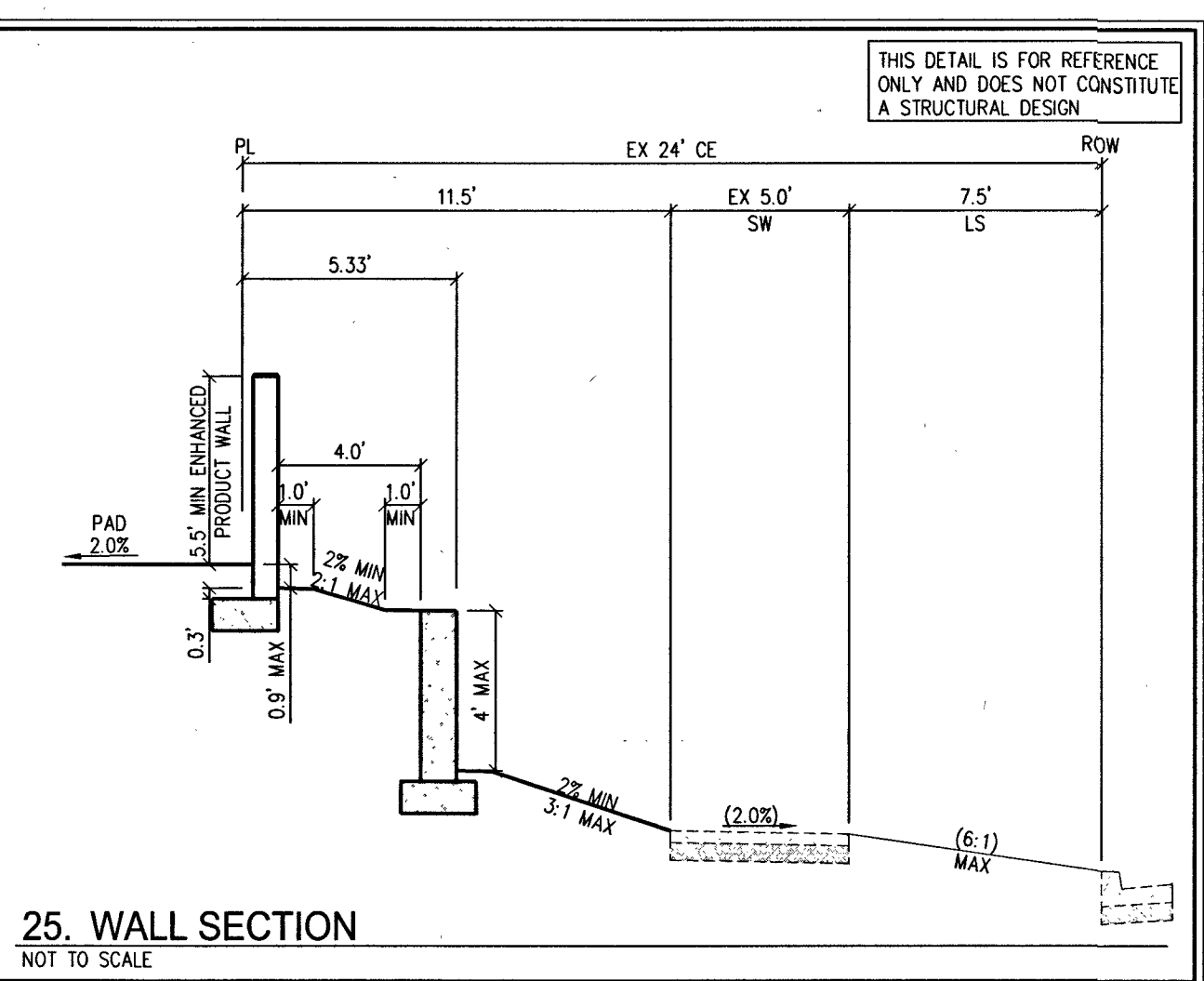
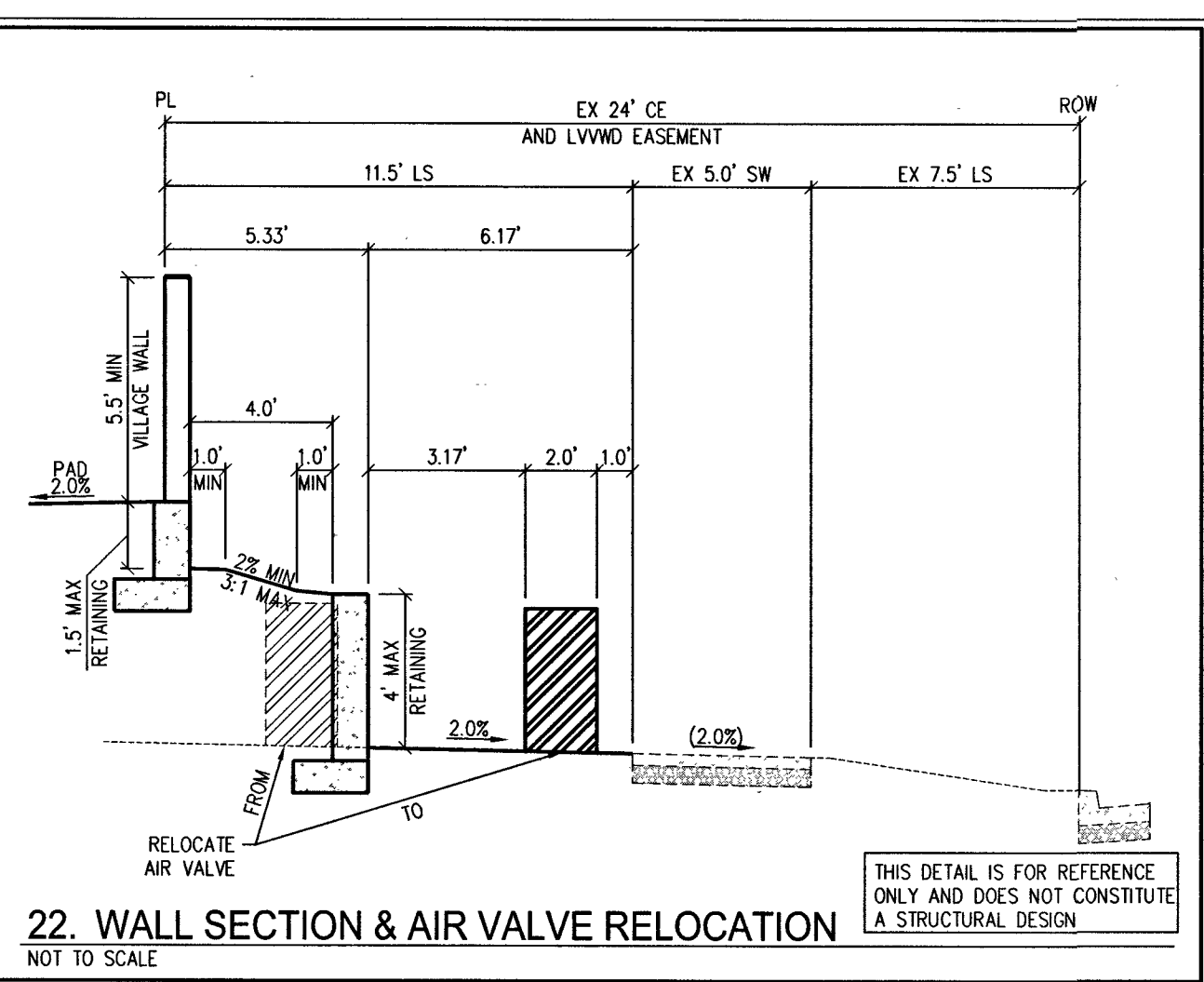
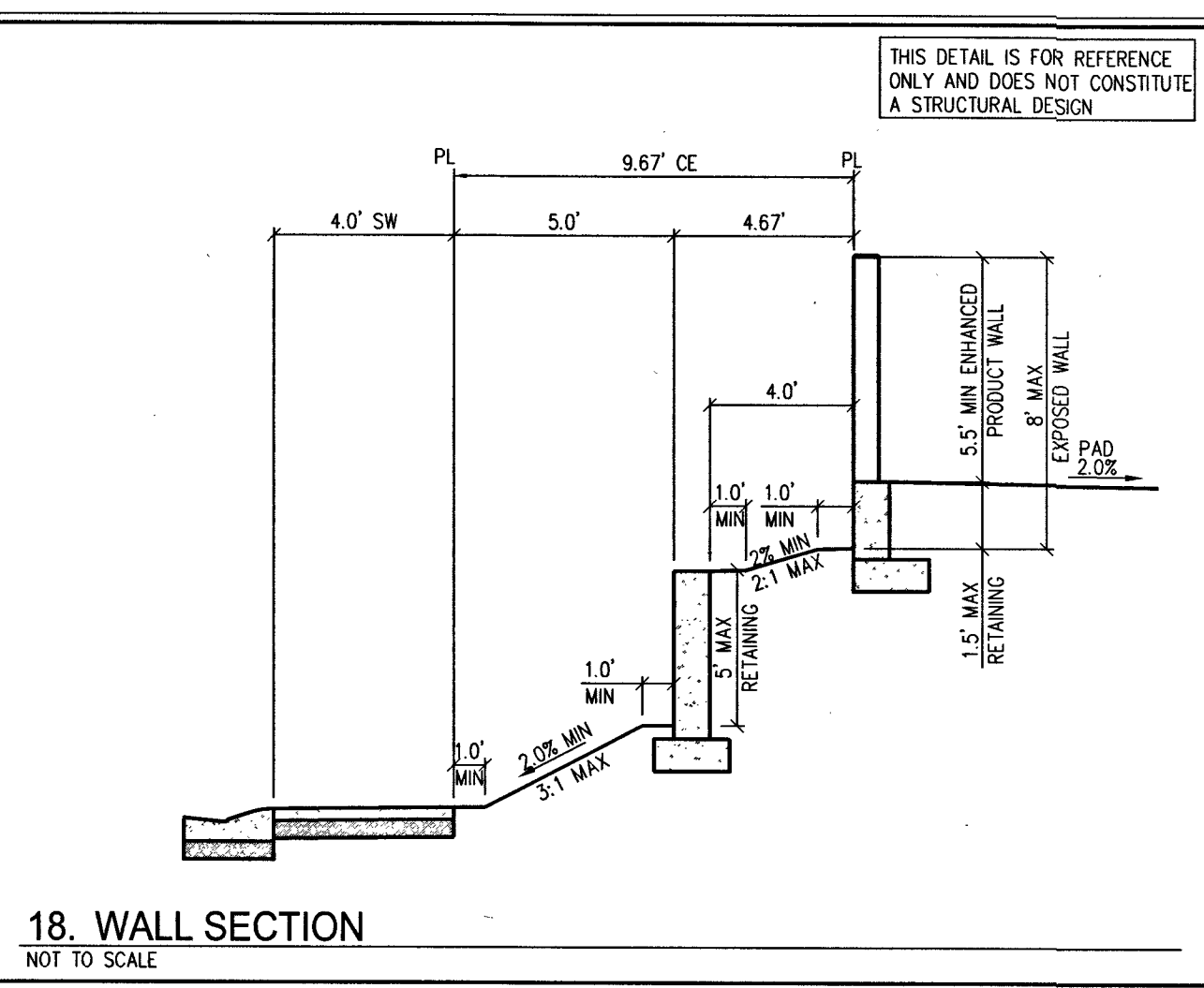
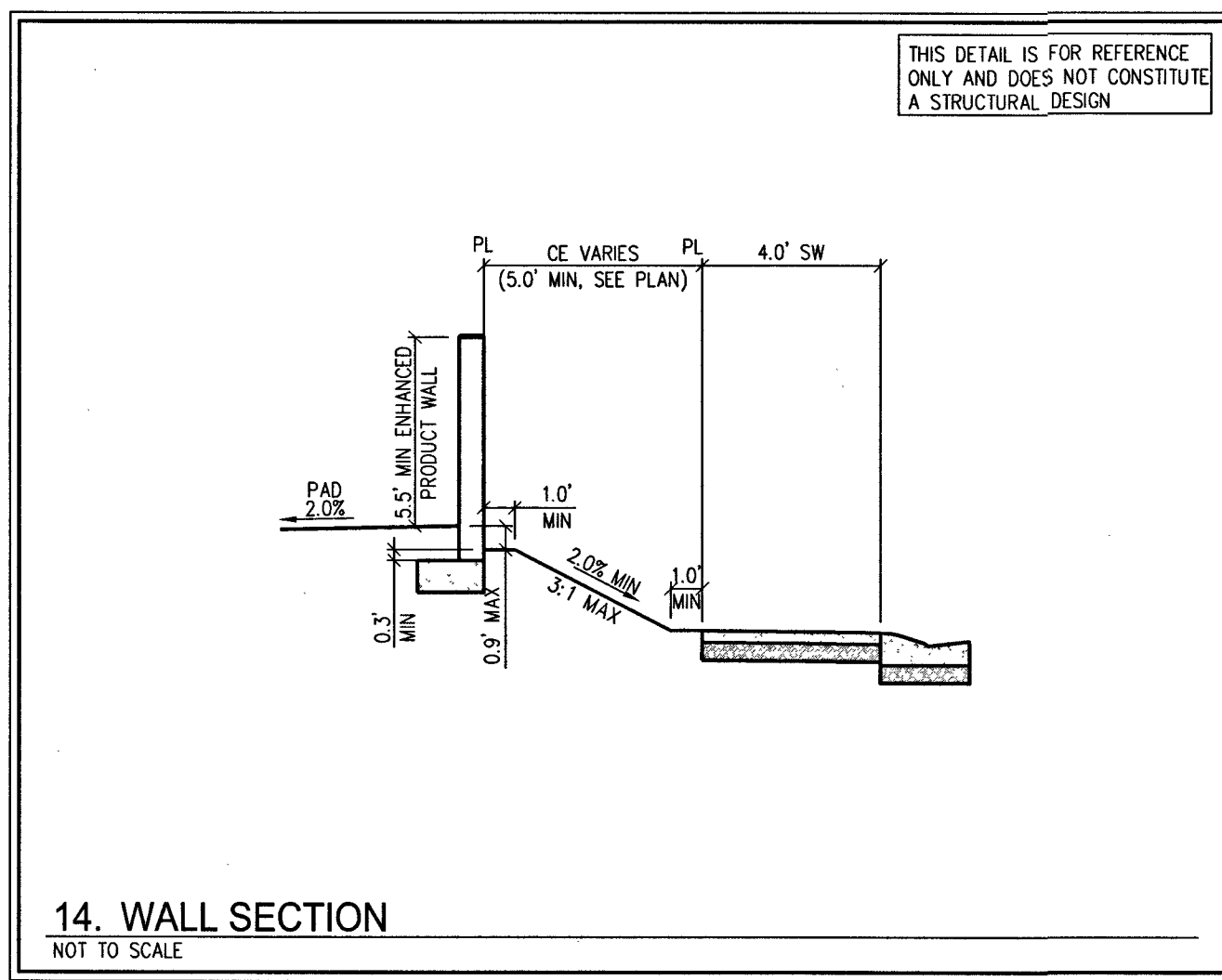


D-1

SHEET 8 OF 29

L19-00527

107Y5102-



SLATER
HANIFAN
GROUP

CONSULTING ENGINEERS & PLANNERS

5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118

PHONE (702) 284-5300 FAX (702) 284-5399

DATE

BY

APP

DATE

DESCRIPTION

NO.

KBHOME

BRISTLE VALE - UNIT 2

DETAIL SHEET II

DATE: 5/8/19

DRAFTER: OQ

DESIGNER: OQ

CHECKED: DSP

PROJECT NO. KBH1804-000

APPROVED FOR CONSTRUCTION

DATE: 5/8/19

DRAFTER: OQ

DESIGNER: OQ

CHECKED: DSP

PROJECT NO. KBH1804-000

APPROVED FOR CONSTRUCTION

DATE: 5/8/19

DRAFTER: OQ

DESIGNER: OQ

CHECKED: DSP

PROJECT NO. KBH1804-000

APPROVED FOR CONSTRUCTION

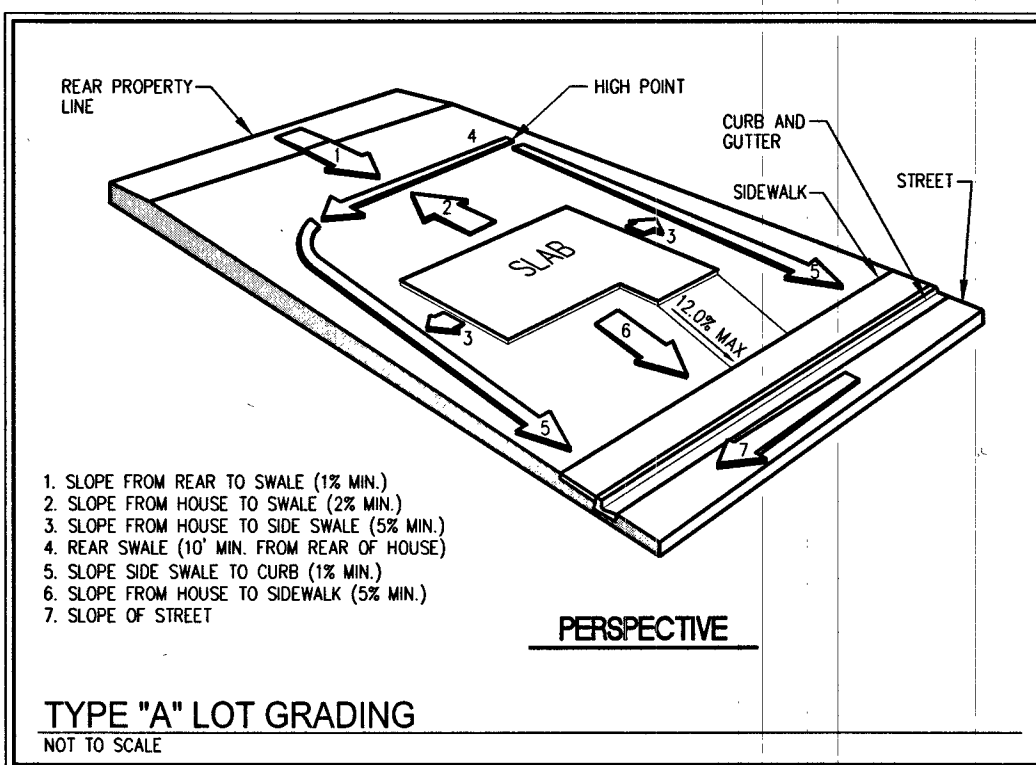
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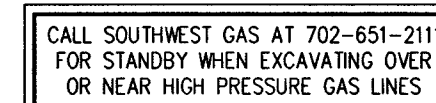
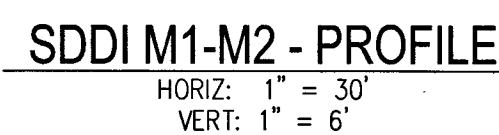
DRAFTER: OQ

DESIGNER: OQ

CHECKED: DSP

PROJECT NO. KBH1804-000





CURVE	LENGTH	RADIUS	DELTA	TANGENT
C2	153.64'	3500.00'	23°50'4"	76.83'
C3	36.39'	1846.50'	10°45'	18.20'
C4	48.87'	39.50'	70°52'3"	28.11'
C5	431.08'	3805.00'	62°29'29"	215.77'
C23	144.38'	3480.50'	22°23'37"	72.20'
C24	37.15'	100.00'	21°17'10"	18.79'
C25	105.23'	53.00'	113°45'42"	81.24'
C26	37.09'	100.00'	21°14'55"	18.76'
C37	138.43'	3519.50'	21°15'31"	69.23'
C38	36.01'	1827.00'	10°47'45"	18.20'
C39	24.74'	20.00'	70°52'53"	14.00'
C40	433.29'	3824.50'	62°29'29"	216.88'

LEGAL DESCRIPTION

EASEMENT NOTES

LVWD NOTES

DROP INLET NOTE

CONSTRUCTION NOTES

- | | |
|----|--|
| 1 | INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE. |
| 2 | CONSTRUCT 4" WIDE SIDEWALK PER CAUSA NO. 234 (5" THICK) WITH 1" MIN. AGGREGATE. |
| 3 | INSTALL MODIFIED ROLL TYPE CURB PER CAUSA NO. 217.1. |
| 4 | INSTALL 10" L ³ TYPE CURB TO MODIFIED ROLL CURB TRANSITION PER DET. 29, SHEET D-3. |
| 5 | CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED W/ 2" OR EQUIVALENT PER DET. 29, SHEET D-3. |
| 6 | CONSTRUCT 8" CROSS CUTTER PER CAUSA NO. 228 |
| 7 | INSTALL 30" RCP STORM DRAIN PIPE |
| 8 | INSTALL 42" RCP STORM DRAIN PIPE |
| 9 | INSTALL 12.5" TYPE "CM2" DROP INLET PER CAUSA NO. 412. 10' FROM WATER QUALITY MANAGEMENT STAMP PER CAUSA NO. 421. |
| 10 | INSTALL 20" TYPE "CM2" DROP INLET WITH ALTERNATE 10' FROM WATER QUALITY MANAGEMENT STAMP PER CAUSA NO. 421. |
| 11 | INSTALL 48" TYPE III SDMH CAUSA NO. 401, 402 & 406 |
| 12 | REMOVE EX 4.56'x6" NDOT TYPE 2A DROP INLET AND APRON. |
| 13 | REMOVE AND REINSTATE 8" WIDE SIDEWALK PER CAUSA NO. 234. |
| 14 | INSTALL 10 STEPS @ 4.1" |
| 15 | INSTALL WROUGHT IRON MAN GATE |
| 16 | INSTALL WROUGHT FENCE PER CAUSA NO. 425.51 |
| 17 | INSTALL THROUGH WALL DRINK BLOCK PER DETAIL 24, SHEET D-3. |
| 18 | SAW CUT AND MATCH EXISTING IMPROVEMENTS (13" AC/6" TYPE II OR EQUIV NATIVE) PER CAUSA NO 500.2. EXISTING STORM DRAIN RE-OPENING. |
- SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

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BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV09 34SW6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT
MOON RD. AND SKY VISTA DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

BASIS OF BEARINGS

NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135, PAGE 71 OF PLATS.



**SLATER
HANIFAN
S-H GROUP**
CONSULTING ENGINEERS & PLANNERS
57540 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

LAS VEGAS, NV

KB HOME

BRISTLE VALE - UNIT 2
PLAN & PROFILE - SDDI M1-SDMH H3

305

DATE: 5/8/19

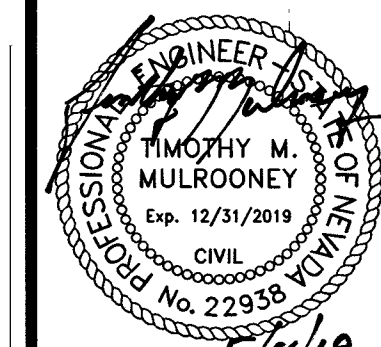
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PROJECT NO.

KBH1804-000

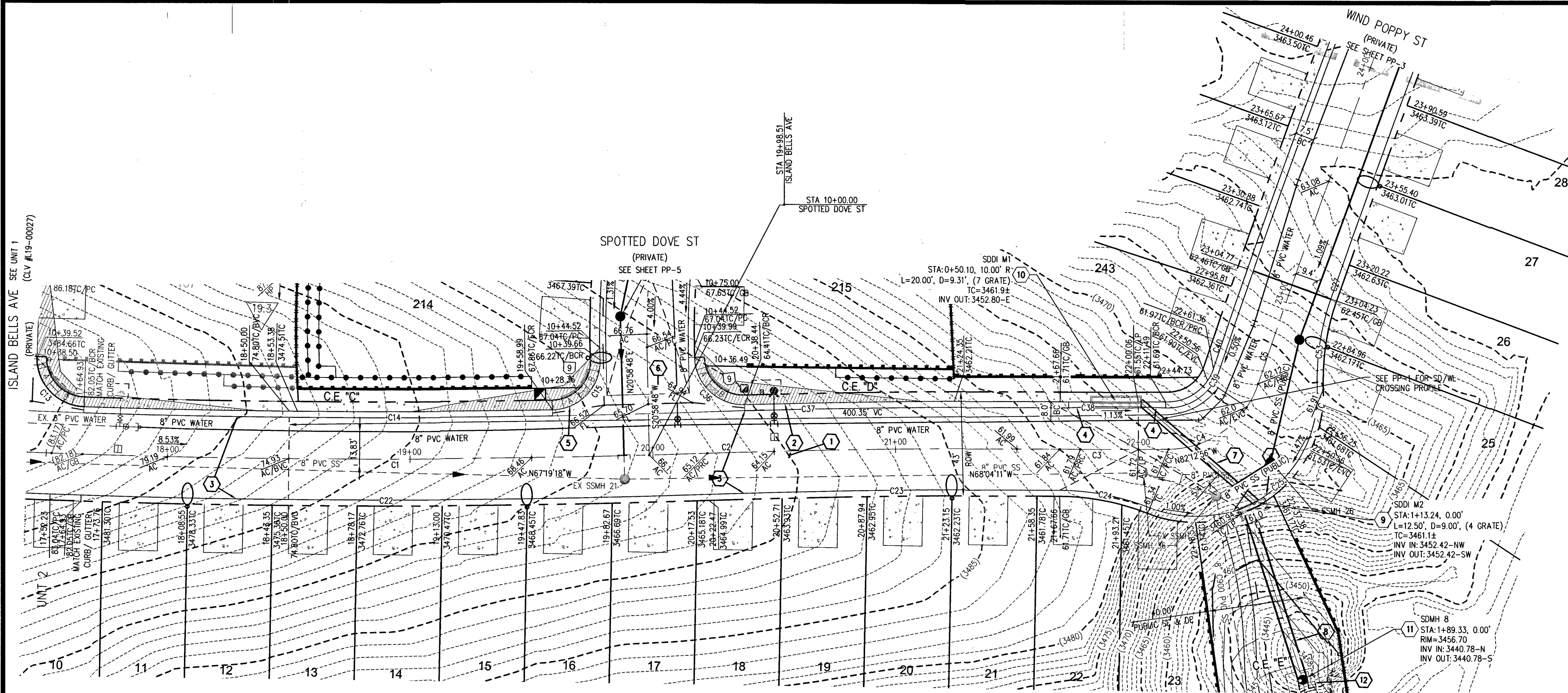


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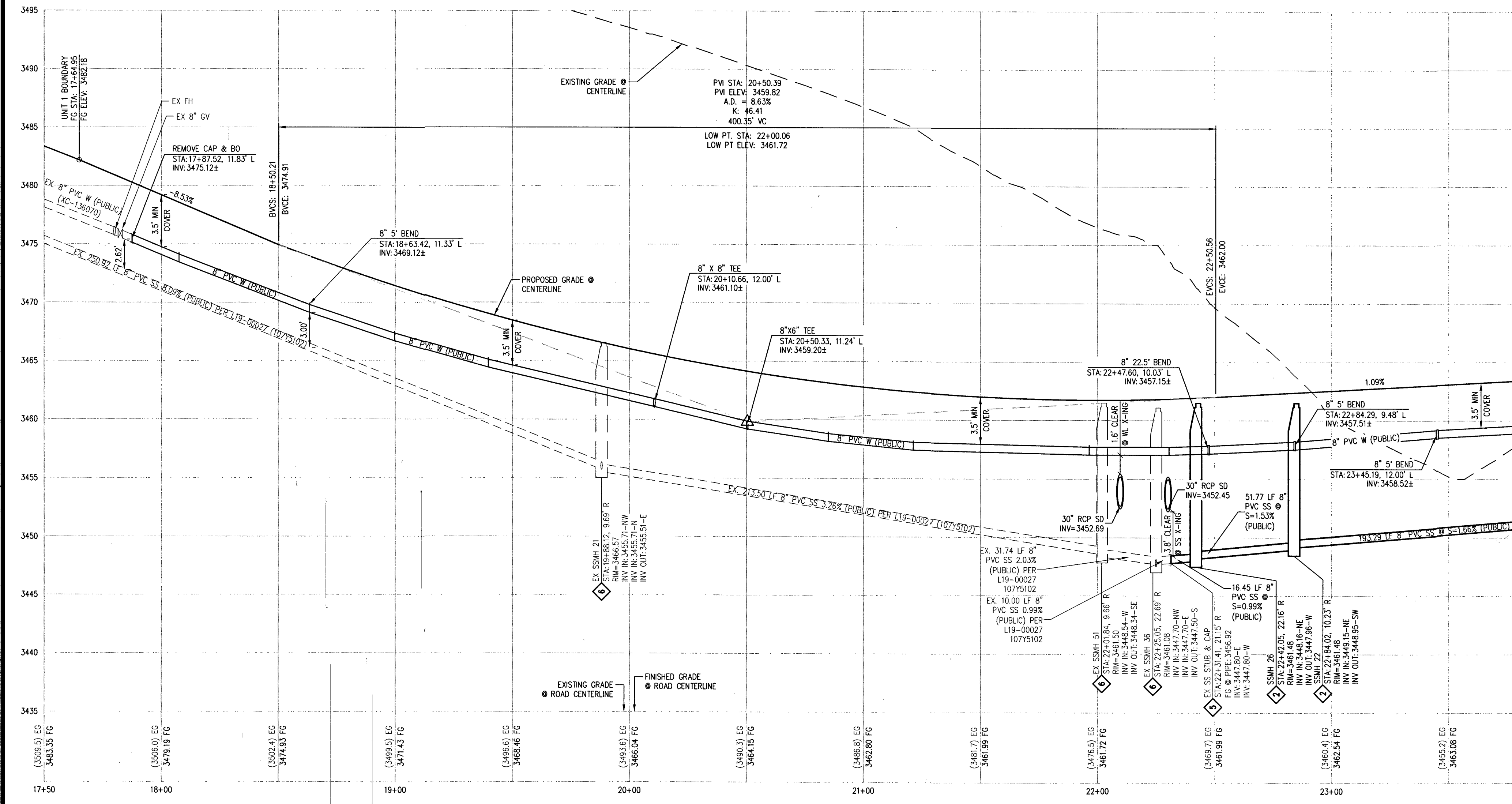
SHEET 11 OF 29

L19-00527

PROJ#:136382A QS:137-33-NE



ISLAND BELLS AVE - PLAN
(PRIVATE)



ISLAND BELLS AVE - PROFILE
HORIZ: 1" = 30'
VERT: 1" = 6'

0 30 60
SCALE - 1"=30' FEET

CALL SOUTHWEST GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES

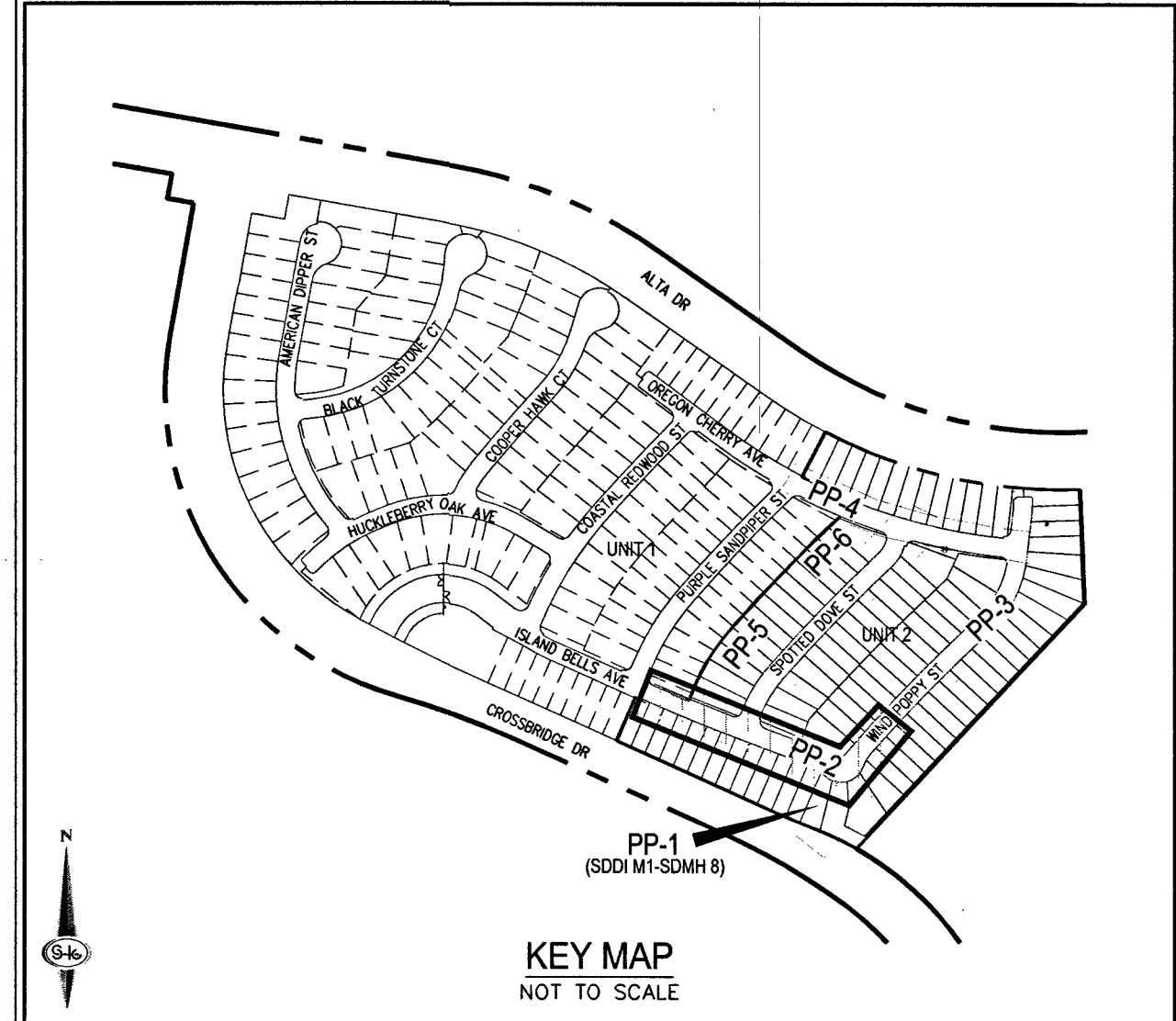
RAMP TRANSITION LENGTHS FOR 1:12 SIDE SLOPES

CASE NO.	GRADE %	"A" MIN.	"B" MIN.
1	-6 TO -5.01	4.5'	21.5'
2	-5 TO -4.01	4.5'	15.0'
3	-4 TO -3.01	4.5'	12.0'
4	-3 TO -2.01	4.5'	9.5'
5	-2 TO 2	8.0'	8.0'
6	2.01 TO 3	9.5'	4.5'
7	3.01 TO 4	12.0'	4.5'
8	4.01 TO 5	15.0'	4.5'
9	5.01 TO 6	21.5'	4.5'

SIDEWALK RAMP USING AMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD NO. 235, CASE 1

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT
C1	257.52'	3750.00'	3°56'05"	128.81'
C2	153.64'	3500.00'	2°30'54"	76.83'
C3	36.39'	1846.50'	10°47'45"	18.20'
C4	48.87'	39.50'	70°52'53"	28.11'
C5	431.08'	3805.00'	6°29'29"	215.77'
C13	31.48'	20.00'	90°11'39"	20.07'
C14	193.04'	3730.50'	2°57'54"	96.54'
C22	271.65'	3769.50'	4°07'44"	135.88'
C23	144.38'	3480.50'	2°22'37"	72.20'
C24	37.15'	100.00'	21°17'07"	18.79'
C25	105.23'	53.00'	11°34'52"	81.24'
C27	386.23'	3785.50'	5°50'45"	193.28'
C37	138.43'	3519.50'	2°15'13"	69.23'
C38	36.01'	1827.00'	10°47'45"	18.00'
C39	24.74'	20.00'	70°52'53"	14.23'
C40	433.29'	3824.50'	6°29'29"	216.88'
C53	37.09'	100.00'	21°14'55"	18.76'



LEGAL DESCRIPTION
LYING WITHIN THE NORTH EAST QUARTER (NE1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

EASEMENT NOTES
1. ALL PRIVATE STREETS ARE P.U.E. PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.
2. ALL COMMON ELEMENTS ARE PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

LVVWD NOTES
1. WATER PRESSURE ZONE 3665
2. MAINTAIN MINIMUM TWENTY-FOUR (24") INCH COVER PER UDACS SEC. 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION

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)

- CONSTRUCTION NOTES
- INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
 - CONSTRUCT 4" WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
 - INSTALL MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217.1
 - INSTALL 10" x 4" TYPE II CURB TO MODIFIED ROLL CURB TRANSITION PER DETAIL 29, SHEET D-3
 - CONSTRUCT SIDEWALK RAMP USING ARMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER DETAIL 28, SHEET D-3
 - CONSTRUCT 8" CROSS GUTTER PER CCAUSD NO. 228
 - INSTALL 30" RCP STORM DRAIN PIPE
 - INSTALL 42" RCP STORM DRAIN PIPE
 - INSTALL 12" TYPE "CM2" DROP INLET PER CCAUSD NO. 412.1 AND STORM WATER QUALITY MANAGEMENT STAMP PER CCAUSD NO. 401
 - INSTALL 20" TYPE "CM2" DROP INLET WITH ALTERNATE CONNECTION PER CCAUSD NO. 412.1 AND STORM WATER QUALITY MANAGEMENT STAMP PER CCAUSD NO. 421
 - INSTALL 48" TYPE III SDMH CCAUSD NO. 401, 402 & 406
 - REMOVE EX 4.5'x6' NDOT TYPE 2A DROP INLET AND APRON
 - REMOVE AND REINSTALL 8" WIDE SIDEWALK PER CCAUSD NO. 234
 - INSTALL 10 STEPS @ 4"
 - INSTALL WROUGHT IRON MAN GATE
 - INSTALL WROUGHT FENCE PER CCAUSD NO. 425.51
 - INSTALL THROUGH WALL DRAIN BLOCK PER DETAIL 24, SHEET D-2
 - SAWCUT AND MATCH EXISTING IMPROVEMENTS (3" AC/6" TYPE I OR SCARIFY NATIVE) PER CCAUSD NO. 500.2. EXISTING STRIPING TO BE REPLACED
- SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

DISCLAIMER NOTE
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BENCHMARK
CITY OF LAS VEGAS BENCHMARK 7LV09 345W6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT WOOD RD. AND SKY VISTA DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

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APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO.: 136382 DATE: 5/13/19

FAST
Call before you UnderGround
1-702-432-5300
FREWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

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

SLATER HANIFAN GROUP
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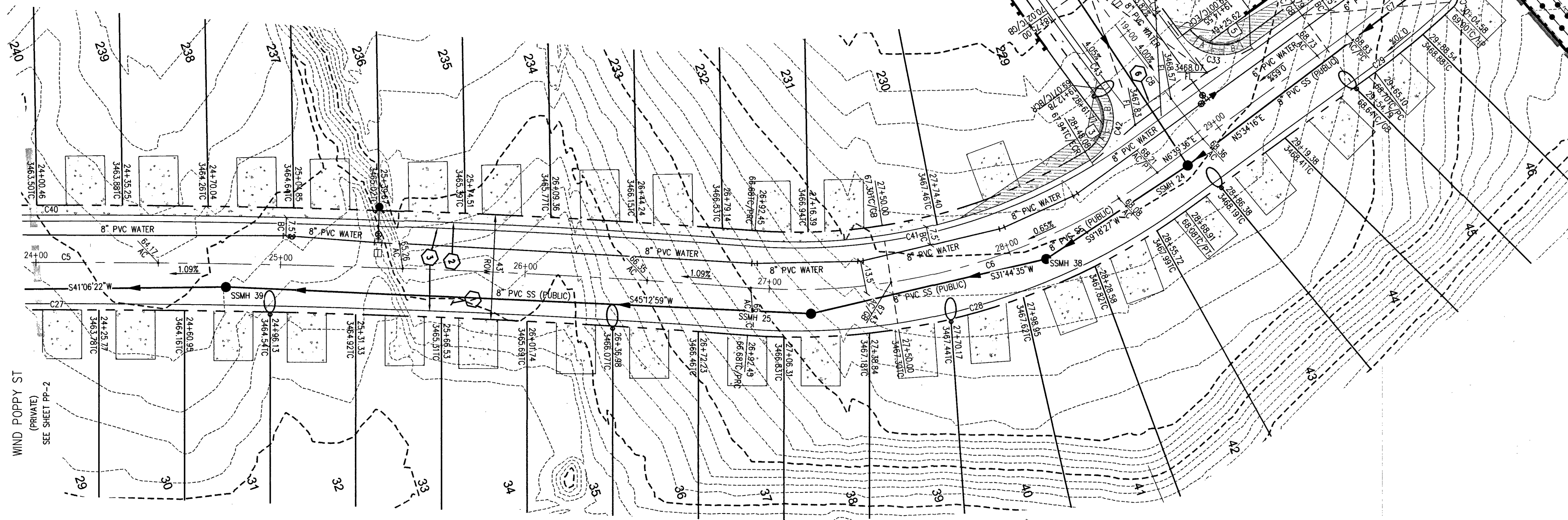
KBHOME
BRISTLE VALE - UNIT 2
PLAN & PROFILE - ISLAND BELLS AVE STA 17+50 TO 24+00

DATE: 5/8/19
DRAFTER: OQ
DESIGNER: OQ
CHECKED: DSP
PROJECT NO. KBH1804-000

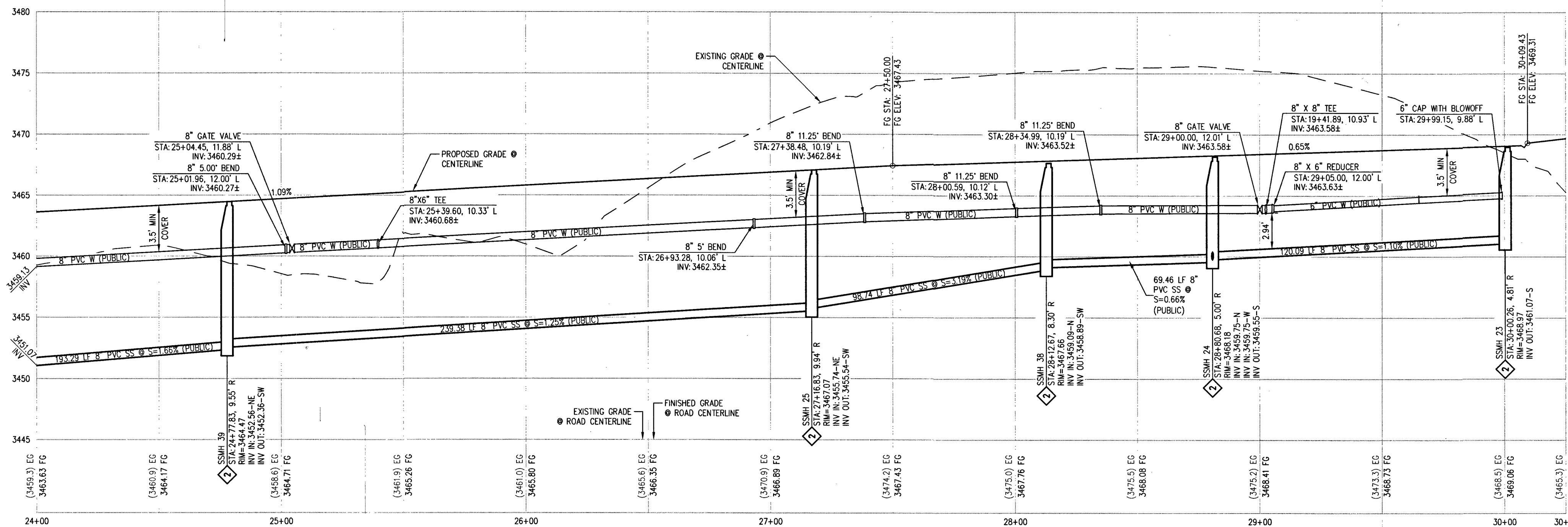
APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO.: 136382 DATE: 5/13/19

PP-2
SHEET 12 OF 29
L19-00527
107Y5102-2

PROJ#: 136382 QS: 137-33-NE



WIND POPPY ST - PLAN
(PRIVATE)



WIND POPPY ST - PROFILE

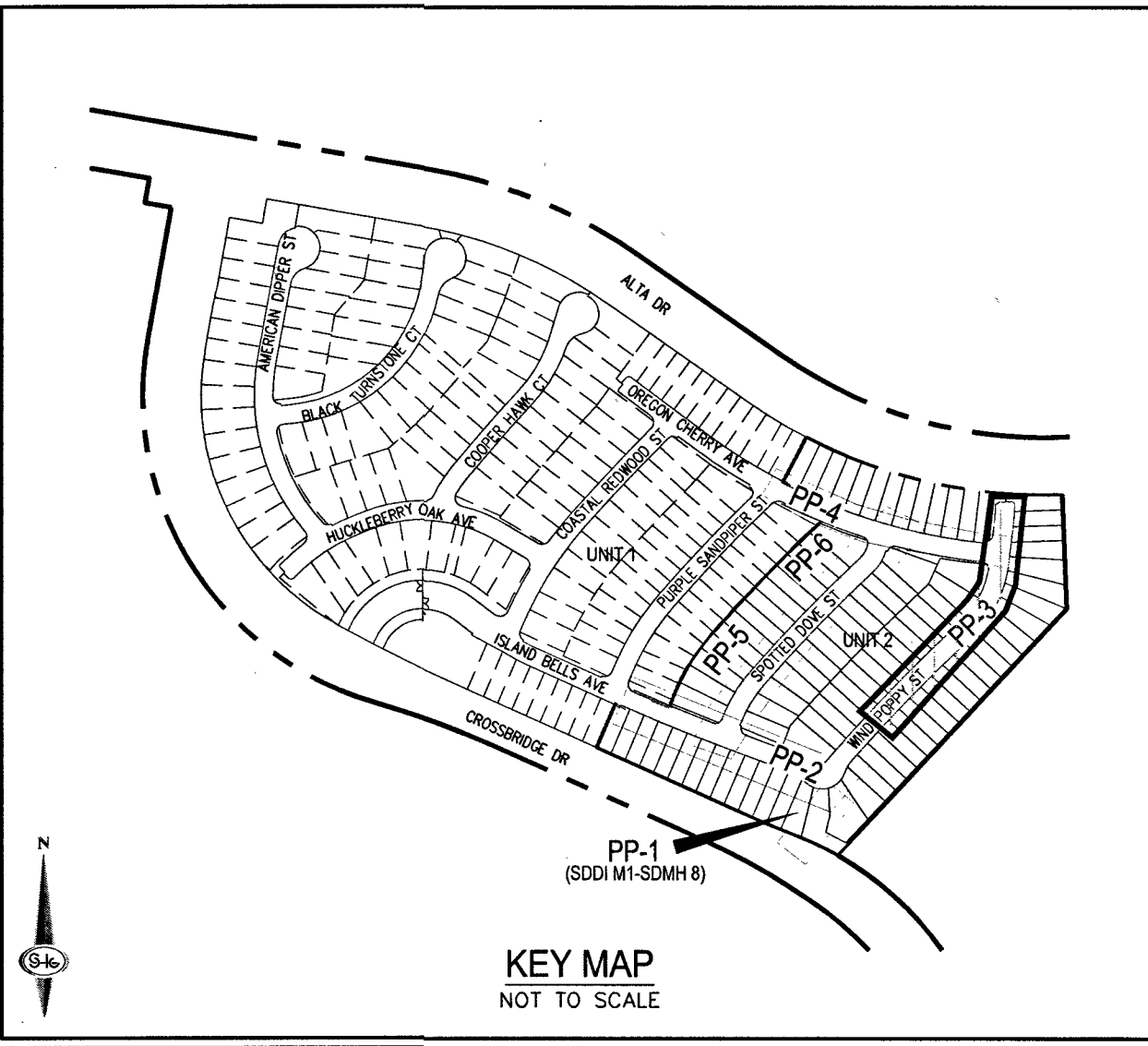
HORIZ: 1" = 30'
VERT: 1" = 6'

0 30 60
SCALE - 1"=30' FEET

CALL SOUTHWEST GAS AT 702-651-2111
FOR STANDBY WHEN EXCAVATING OVER
OR NEAR HIGH PRESSURE GAS LINES

RAMP TRANSITION LENGTHS FOR 1:12 SIDE SLOPES				
CASE NO.	GRADE %	"A" MIN.	"B" MIN.	
1	-6 TO -5.01	4.5'	21.5'	
2	-5 TO -4.01	4.5'	15.0'	
3	-4 TO -3.01	4.5'	12.0'	
4	-3 TO -2.01	4.5'	9.5'	
5	-2 TO 2	8.0'	8.0'	
6	2.01 TO 3	9.5'	4.5'	
7	3.01 TO 4	12.0'	4.5'	
8	4.01 TO 5	15.0'	4.5'	
9	5.01 TO 6	21.5'	4.5'	

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C5	431.08'	3805.00'	6°29'29"	215.77'
C6	176.46'	250.00'	40°26'30"	92.09'
C7	41.83'	300.00'	75°20'20"	20.95'
C27	386.23'	3785.50'	5°50'45"	193.28'
C28	190.22'	269.50'	40°26'30"	99.27'
C29	42.24'	319.50'	73°34'31"	21.15'
C30	7.91'	5.00'	90°35'40"	5.05'
C31	7.80'	5.00'	89°20'42"	4.94'
C32	36.62'	280.50'	72°28'47"	18.34'
C40	433.29'	3824.50'	6°29'29"	216.88'
C41	143.50'	230.50'	35°40'08"	74.16'



LEGAL DESCRIPTION

LYING WITHIN THE NORTH EAST QUARTER
(NE 1/4) OF SECTION 33, TOWNSHIP 20 SOUTH,
RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS,
CLARK COUNTY, NEVADA.

EASEMENT NOTES

1. ALL PRIVATE STREETS ARE P.U.E. PUBLIC
SEWER EASEMENTS AND PUBLIC DRAINAGE
EASEMENTS TO BE PRIVATELY MAINTAINED
BY HOA.
2. ALL COMMON ELEMENTS ARE PUBLIC
DRAINAGE EASEMENTS TO BE PRIVATELY
MAINTAINED BY HOA.

LVWWD NOTES

1. WATER PRESSURE ZONE 3665
2. MAINTAIN MINIMUM TWENTY-FOUR (24") INCH
COVER PER UDMCS SEC. 2.08.04. GRADING
MUST BE COMPLETED PRIOR TO WATERLINE
INSTALLATION

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 BUILT, OR FLAT STRIP.
(VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR
APPROVED EQUAL)

CONSTRUCTION NOTES

1. INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE
BASE
2. CONSTRUCT 4" WIDE SIDEWALK PER CCAUS NO. 234 (5" THICK
W/ 5" TYPE II AGGREGATE BASE)
3. INSTALL MODIFIED ROLL TYPE CURB PER CCAUS NO. 217.1
4. INSTALL 10" x 4" TYPE CURB TO MODIFIED ROLL CURB
TRANSITION PER DETAIL 28, SHEET D-3
5. CONSTRUCT SIDEWALK RAMPS USING ARMOR TILE TRUNCATED
DOMES OR EQUIVALENT PER DETAIL 28, SHEET D-3
6. CONSTRUCT 8" CROSS GUTTER PER CCAUS NO. 228
7. INSTALL 30" RCP STORM DRAIN PIPE
8. INSTALL 42" RCP STORM DRAIN PIPE
9. INSTALL 12.5" TYPE "CM2" DROP INLET WITH ALTERNATE
CONNECTION PER CCAUS NO. 412.1 AND STORM WATER
QUALITY MANAGEMENT STAMP PER CCAUS NO. 421
10. INSTALL 20" TYPE "CM2" DROP INLET WITH ALTERNATE
CONNECTION PER CCAUS NO. 401, 402 & 406
11. REMOVE EX 4.5'x6' NDOT TYPE 2A DROP INLET AND APRON
12. REMOVE AND REINSTALL 8" WIDE SIDEWALK PER CCAUS NO.
234
13. INSTALL 10 STEPS @ 4.1"
14. INSTALL WROUGHT IRON MAN GATE
15. INSTALL WROUGHT FENCE PER CCAUS NO. 425.51
16. INSTALL THROUGH WALL DRAIN BLOCK PER DETAIL 24, SHEET
D-3
17. SAWCUT AND MATCH EXISTING IMPROVEMENTS (3" AC/6" TYPE
II OR SCARIFY MATING) PER CCAUS NO. 500.2 EXISTING
STRIPING TO BE REPLACED
18. SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

DISCLAIMER NOTE

1. EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE
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COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING
UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR
UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.
2. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL
VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE
OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND
CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO
NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV09 3456
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT
MOON RD. AND SKY VISTA DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

BASIS OF BEARINGS

NORTH 05°59'50" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34,
TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY,
NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA
RECORDERS' OFFICE IN BOOK 135, PAGE 71 OF PLATS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO.: 136382 DATE: 5/13/19



SLATER
HANIFAN
GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

LAS VEGAS, NV

KBHOME

BRISTLE VALE - UNIT 2
PLAN & PROFILE - WIND POPPY ST STA 24+00 TO 30+65

DATE: 5/8/19

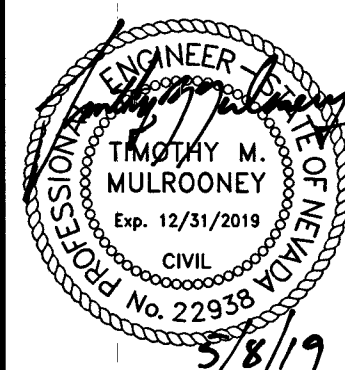
DRAFTER: OO

DESIGNER: OO

CHECKED: DSP

PROJECT NO.

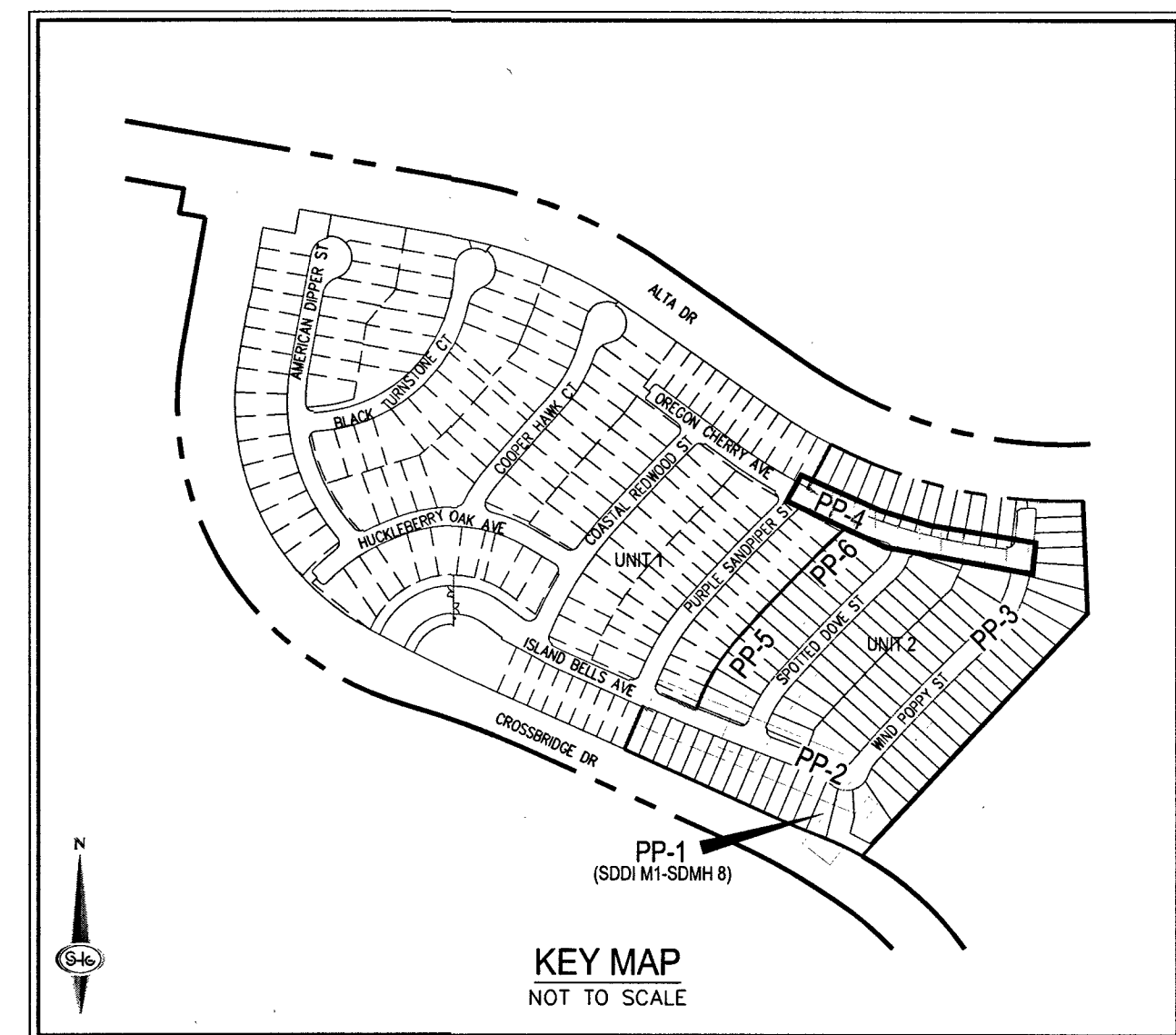
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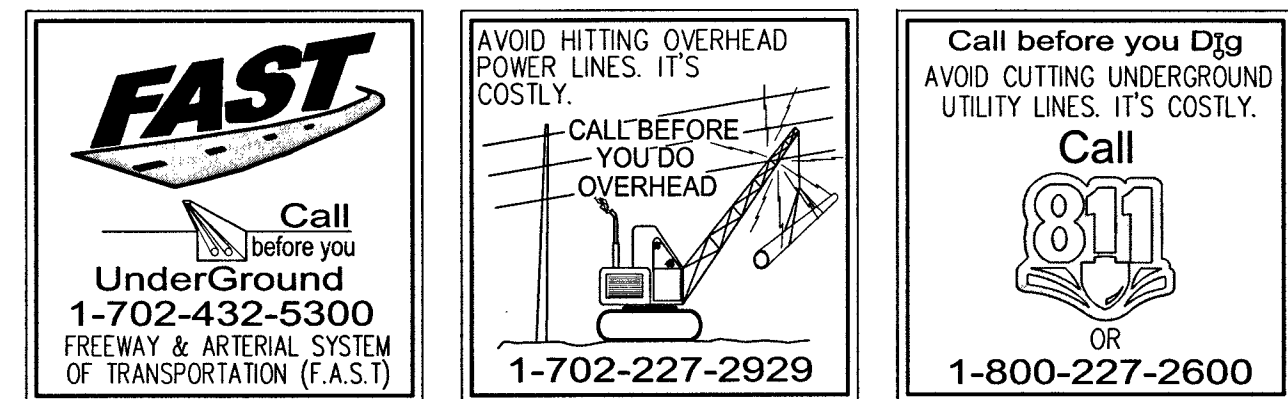
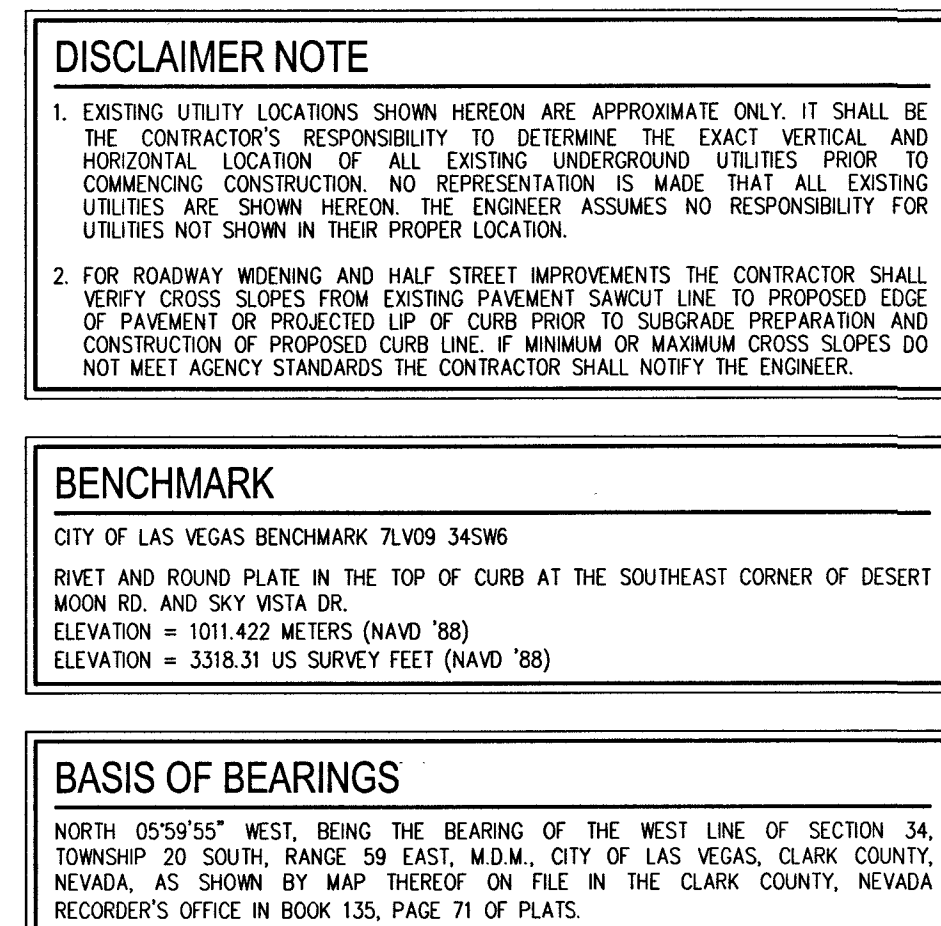
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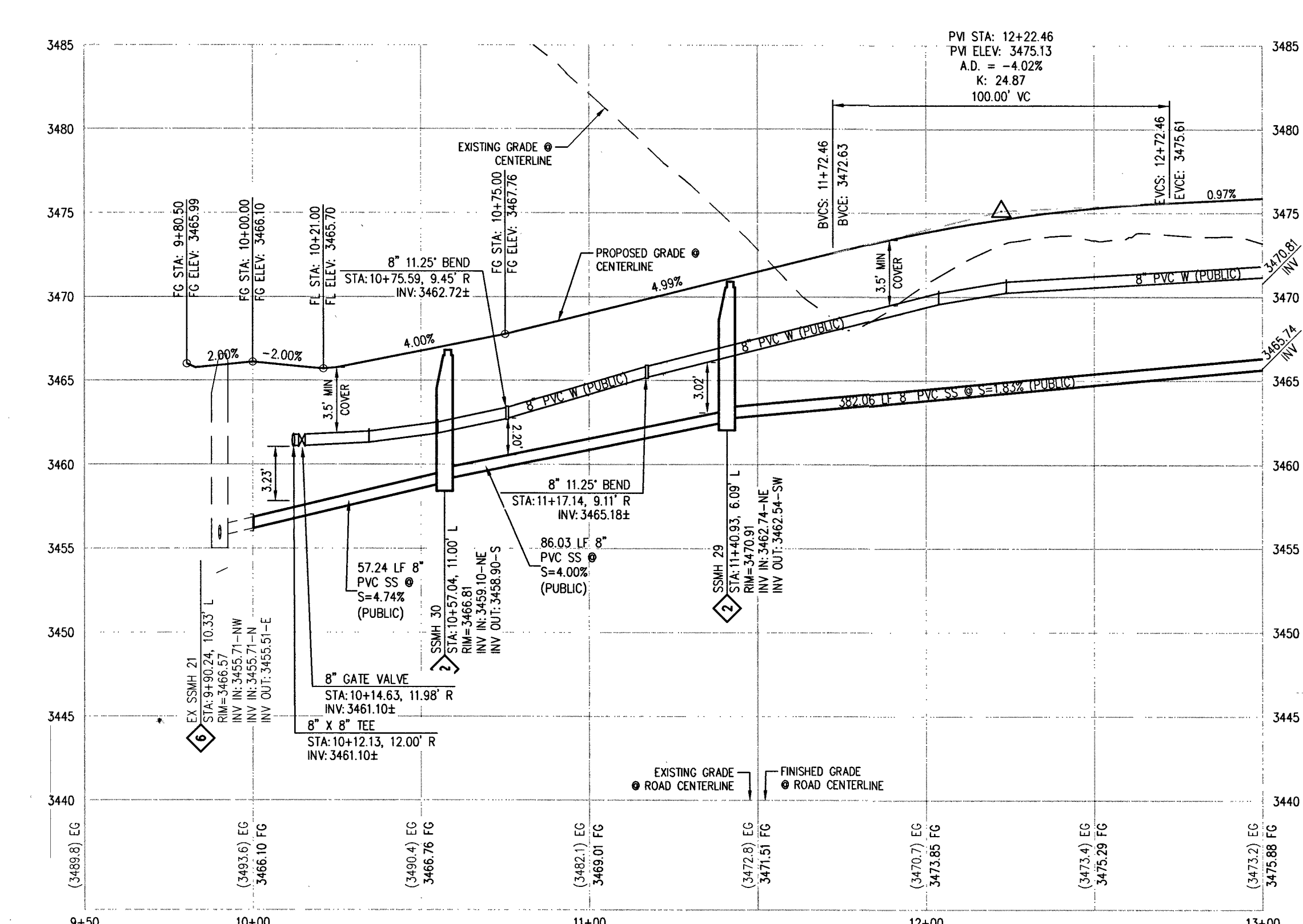
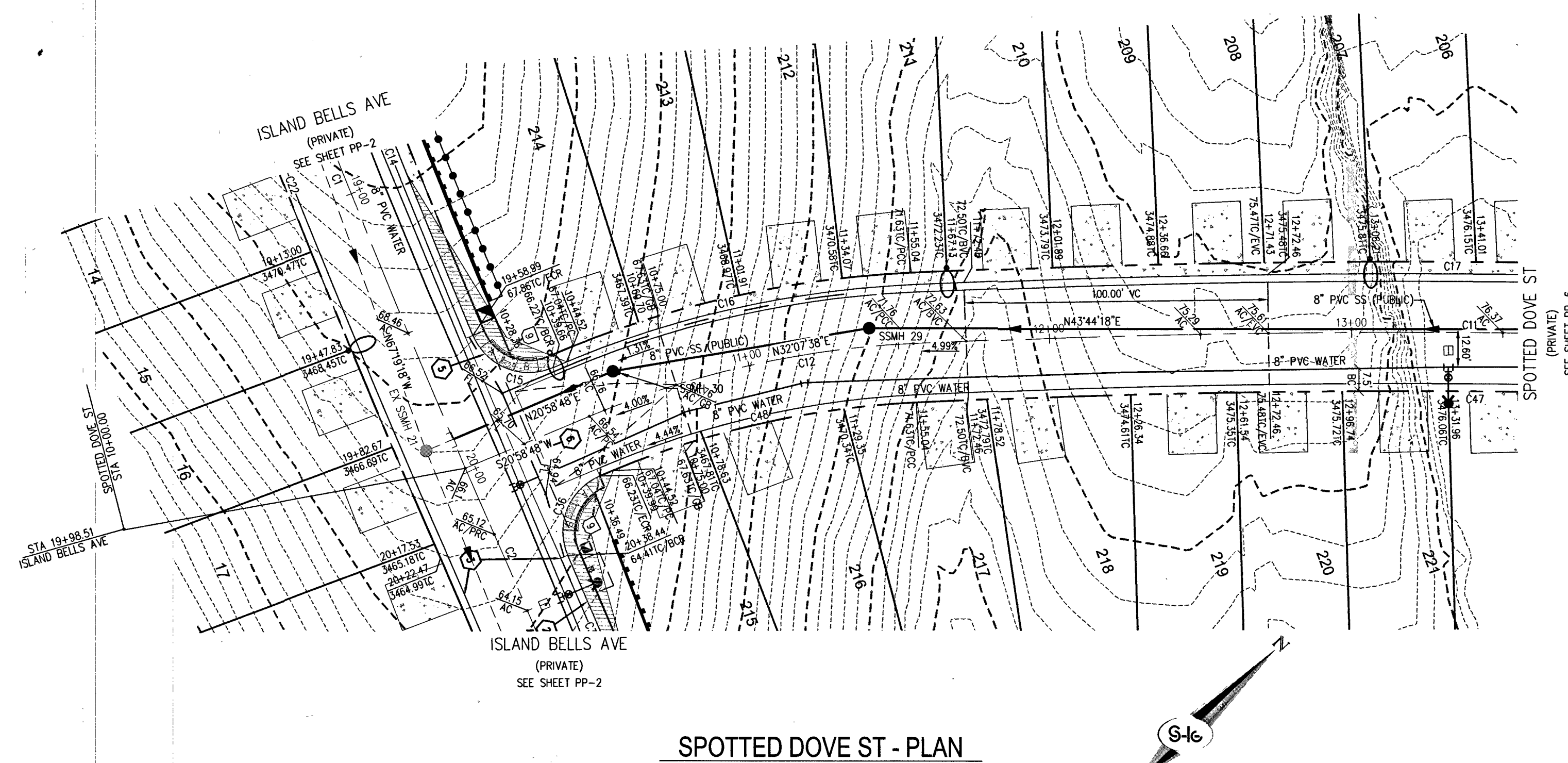
SHEET 13 OF 29
L19-00527
107Y102-2

PROJ.#: 136382 QS: 137-33-NE



LEGAL DESCRIPTION	
LYING WITHIN THE NORTH EAST QUARTER (NE1/4) OF SECTION 33, TOWNSHIP 30 SOUTH, RANGE 59 EAST N.D.M.T., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.	
EASEMENT NOTES	
1. ALL PRIVATE STREETS ARE P.U.E. PUBLIC SERVICE EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA. 2. ALL COMMON ELEMENTS ARE PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.	
LVVWD NOTES	
1. WATER PRESSURE ZONE 3665	
2. MAINTAIN MINIMUM TWENTY (24") INCH COVER PER UDACS SEC. 208.04. WATERING MUST BE COMPLETED PRIOR TO GRADE INSTALLATION	
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 WATERPROOF, CENTER BOLD OR FLAT GRIP (WYNTEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUIAL)	



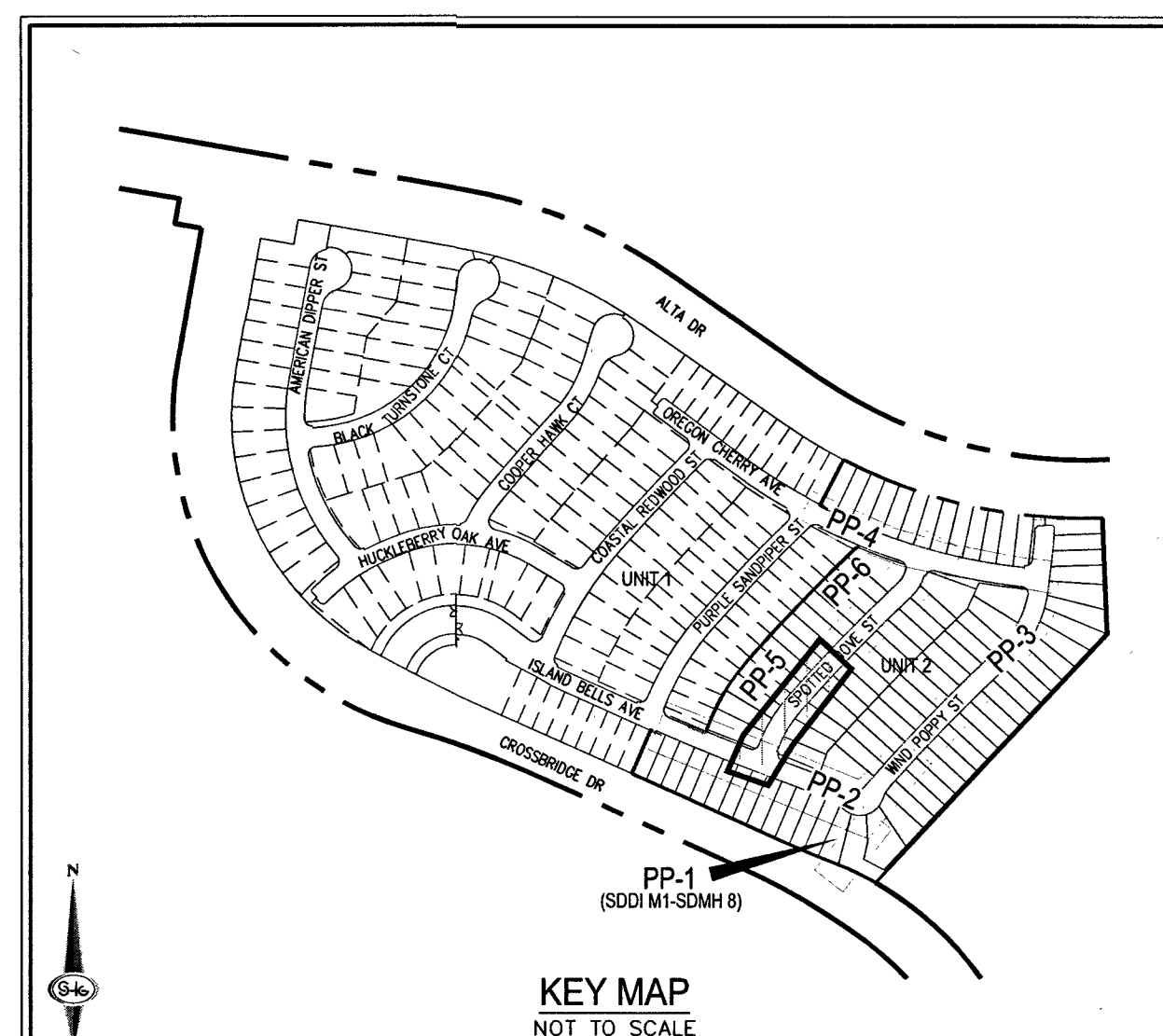


0 30 60
SCALE - 1"=30' FEET

CALL SOUTHWEST GAS AT 702-651-2111 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES

CASE NO.	GRADE %	"A" MIN.	"B" MIN.
1	-6 TO -5.01	4.5'	21.5'
2	-5 TO -4.01	4.5'	15.0'
3	-4 TO -3.01	4.5'	12.0'
4	-3 TO -2.01	4.5'	9.5'
5	-2 TO 2	8.0'	8.0'
6	2.01 TO 3	9.5'	4.5'
7	3.01 TO 4	12.0'	4.5'
8	4.01 TO 5	15.0'	4.5'
9	5.01 TO 6	21.5'	4.5'

SIDEWALK RAMPS USING AMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUS NO. 235, CASE 1



CURVE	LENGTH	RADIUS	DELTA	TANGENT
C11	356.46'	3416.90'	5°58'38"	178.39'
C12	110.52'	316.90'	19°58'54"	55.83'
C15	31.74'	20.00'	90°55'32"	20.33'
C16	122.19'	336.40'	20°48'42"	61.78'
C17	358.49'	3436.40'	5°58'38"	179.41'
C36	31.63'	20.00'	90°36'46"	20.22'
C47	354.43'	3397.40'	5°58'38"	177.37'
C48	103.72'	297.40'	19°58'54"	52.39'

LEGAL DESCRIPTION

LYING WITHIN THE NORTH EAST QUARTER (NE1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

EASEMENT NOTES

1. ALL PRIVATE STREETS ARE P.U.E. PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

2. ALL COMMON ELEMENTS ARE PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

LVWWD NOTES

1. WATER PRESSURE ZONE 3665

2. MAINTAIN MINIMUM TWENTY-FOUR (24") INCH COVER PER UDMCS SEC. 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION

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. (VYNVLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL)

- CONSTRUCTION NOTES**
1. INSTALL 2" ASPHALT PAVEMENT OVER 4" TYPE II AGGREGATE BASE
 2. CONSTRUCT 4" WIDE SIDEWALK PER CCAUS NO. 234 (5" THICK W/ 5" TYPE II AGGREGATE BASE)
 3. INSTALL MODIFIED ROLL TYPE CURB PER CCAUS NO. 217.1
 4. INSTALL 10" 3" TYPE CURB TO MODIFIED ROLL CURB TRANSITION PER DETAIL 28, SHEET D-3
 5. CONSTRUCT SIDEWALK RAMPS USING AMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER DETAIL 28, SHEET D-3
 6. CONSTRUCT 8" CROSS CUTTER PER CCAUS NO. 228
 7. INSTALL 30" RCP STORM DRAIN PIPE
 8. INSTALL 42" RCP STORM DRAIN PIPE
 9. INSTALL 12.5" TYPE "CM2" DROP INLET PER CCAUS NO. 412.1 AND STORM WATER QUALITY MANAGEMENT STAMP PER CCAUS NO. 421
 10. INSTALL 20" TYPE "CM2" DROP INLET WITH ALTERNATE CONNECTION PER CCAUS NO. 412.1 AND STORM WATER QUALITY MANAGEMENT STAMP PER CCAUS NO. 421
 11. INSTALL 48" TYPE II SDMH CCAUS NO. 401, 402 & 406
 12. REMOVE EX 4.5'X6' NDOT TYPE 2A DROP INLET AND APRON
 13. REMOVE AND REINSTALL 8" WIDE SIDEWALK PER CCAUS NO. 234
 14. INSTALL 10 STEPS @ 4.1"
 15. INSTALL WROUGHT IRON MAN GATE
 16. INSTALL WROUGHT FENCE PER CCAUS NO. 425.51
 17. INSTALL THROUGH WALL DRAIN BLOCK PER DETAIL 24, SHEET
 18. SAWOUT AND MATCH EXISTING IMPROVEMENTS (3" AC/6" TYPE OR SCARIFY MATING) PER CCAUS NO. 500.2. EXISTING STRIPING TO BE REPLACED
- SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

DISCLAIMER NOTE

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

2. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWOUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV09 345W6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

BASIS OF BEARINGS

NORTH 055°55' WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135, PAGE 71 OF PLATS.

APPROVED FOR CONSTRUCTION

[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO.: 136382 DATE: 5/13/19

FAST

Call before you UnderGround
1-702-432-5300
FREWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

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

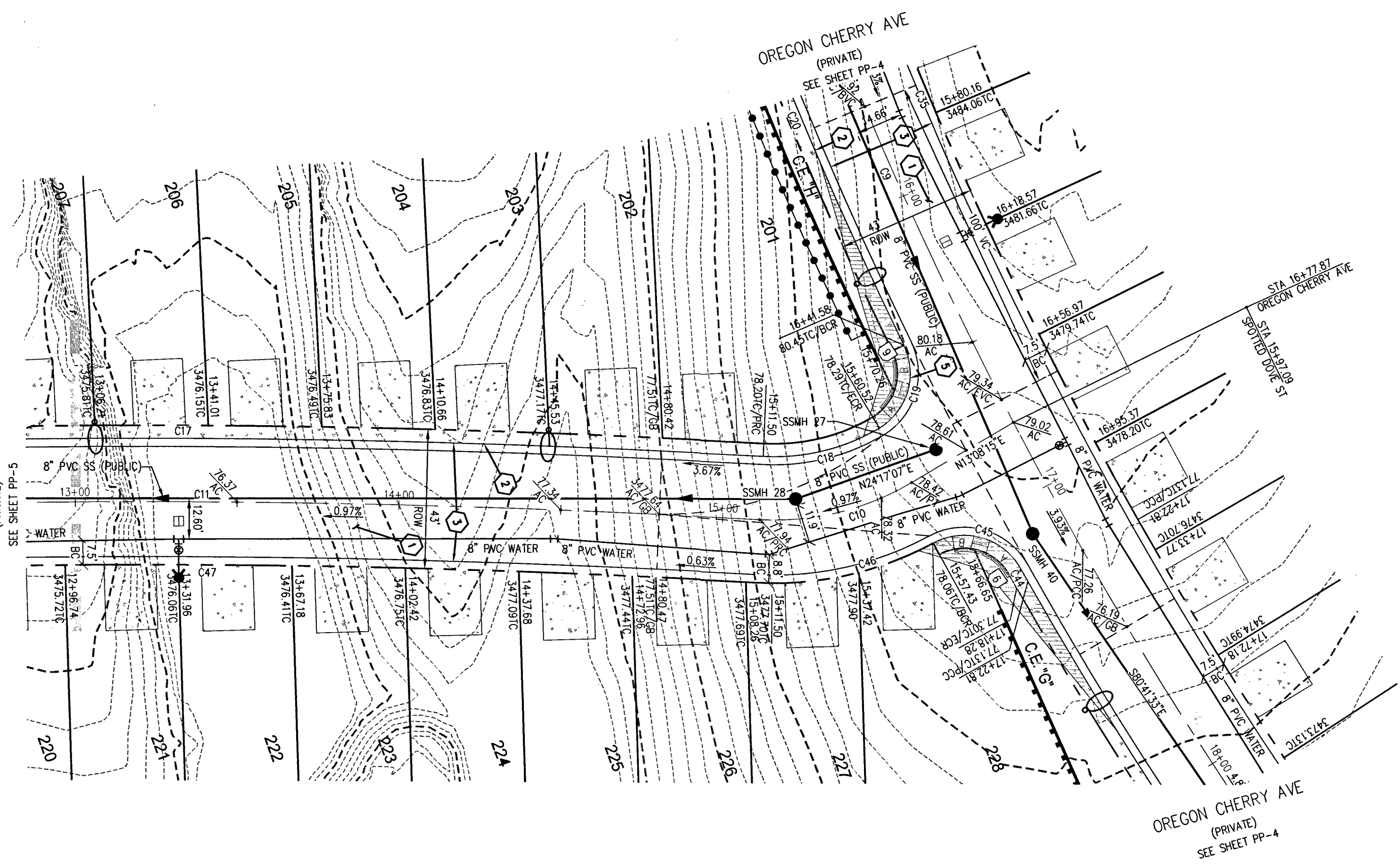
SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

KBHOME
BRISTLE VALE - UNIT 2
PLAN & PROFILE - SPOTTED DOVE ST STA 9+50 TO 13+00

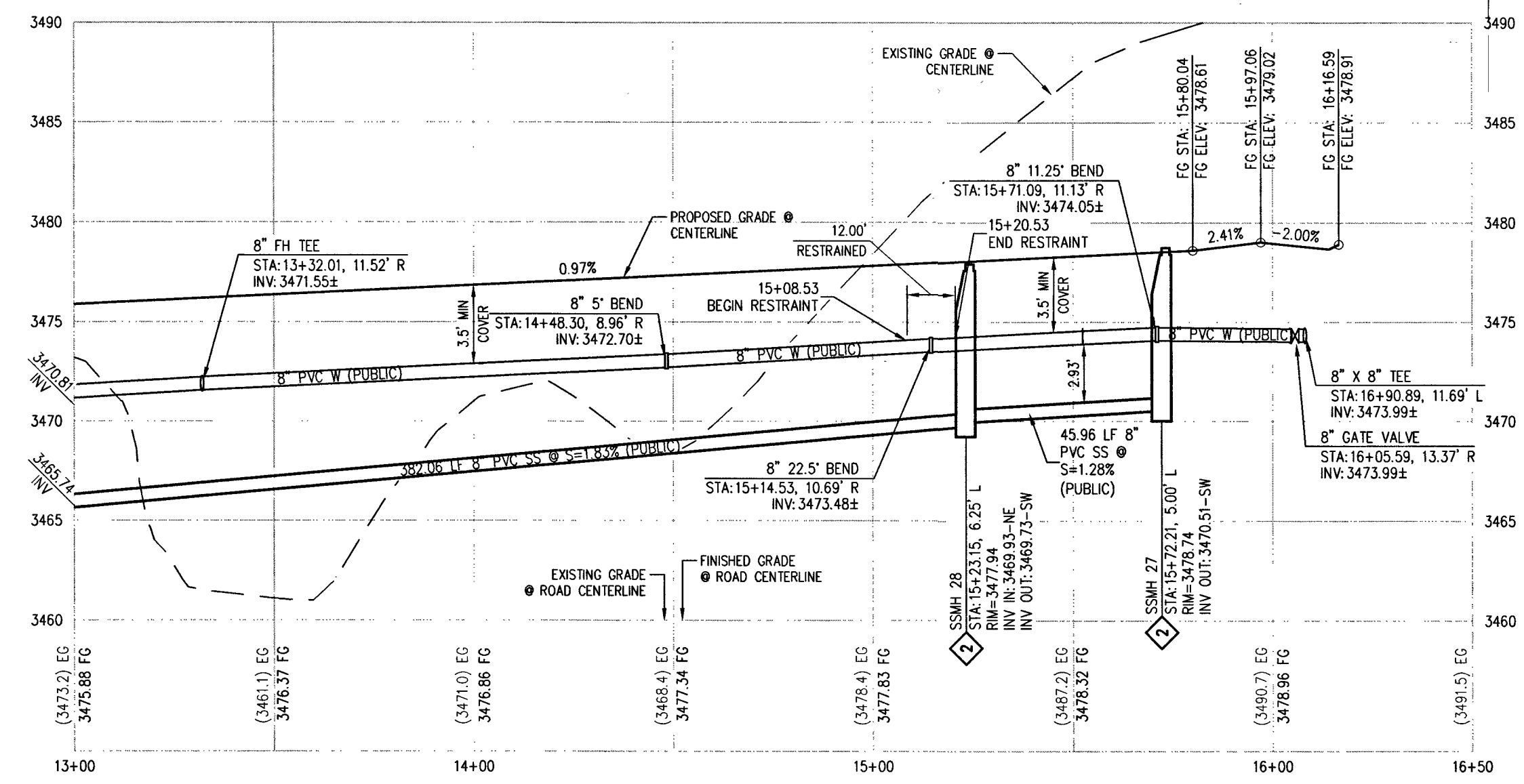
DATE: 5/8/19
DRAFTER: OQ
DESIGNER: OQ
CHECKED: DSP
PROJECT NO. KBH1804-000

PP-5
SHEET 15 OF 29
L19-00527
107Y5102-2

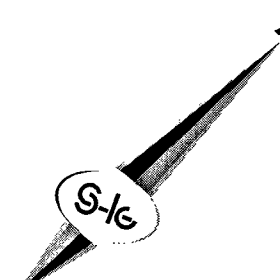
PROJ.#: 136382A QS:137-33-NE



SPOTTED DOVE ST - PLAN
(PRIVATE)



SPOTTED DOVE ST - PROFILE
HORIZ: 1" = 30'
VERT: 1" = 6'



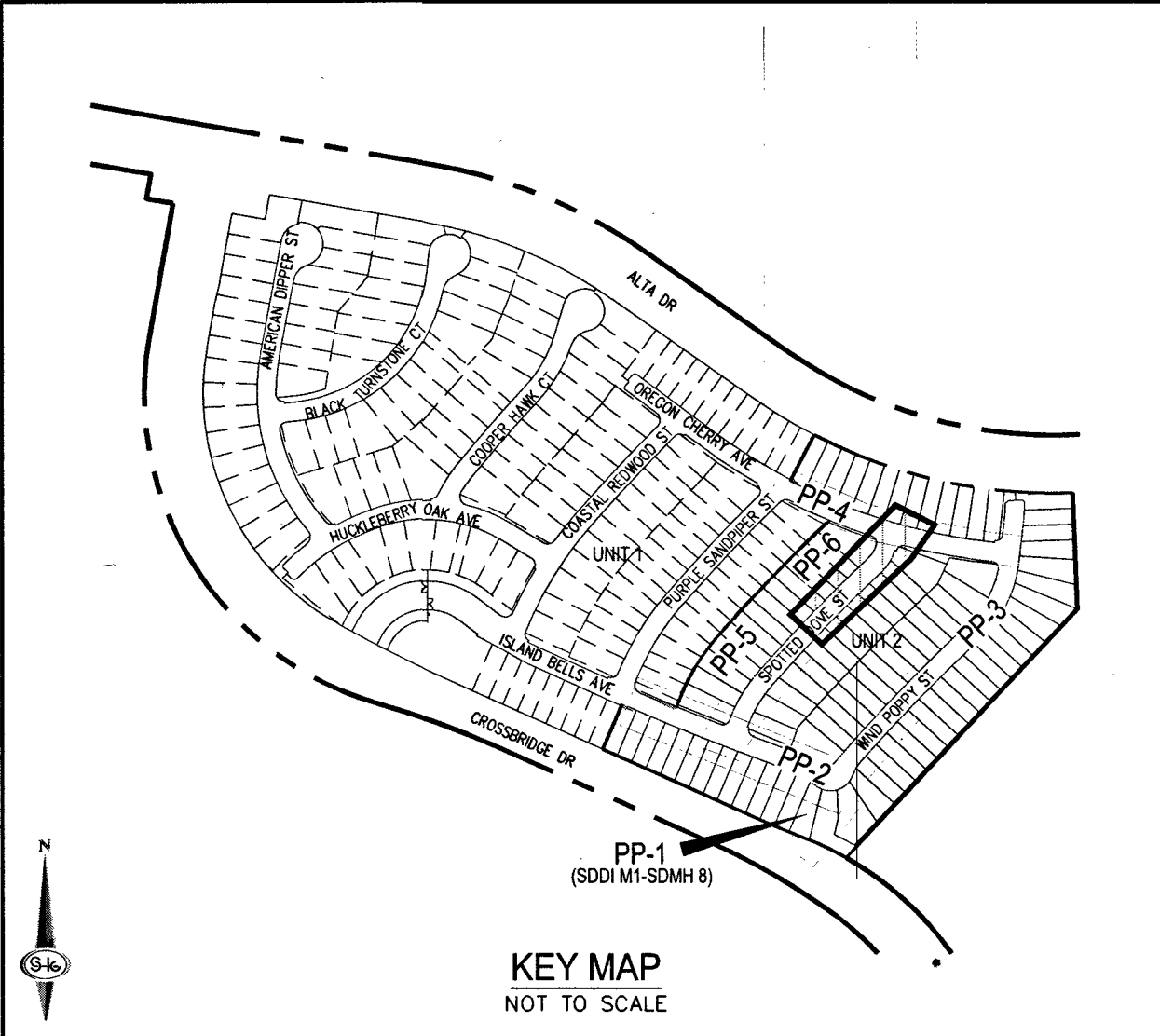
SCALE - 1"=30' FEET

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RAMP TRANSITION LENGTHS FOR 1:12 SIDE SLOPES				
CASE NO.	GRADE %	"A" MIN.	"B" MIN.	"C" MIN.
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4	-3 TO -2.01	4.5'	9.5'	
5	-2 TO 2	8.0'	8.0'	
6	2.01 TO 3	9.5'	4.5'	
7	3.01 TO 4	12.0'	4.5'	
8	4.01 TO 5	15.0'	4.5'	
9	5.01 TO 6	21.5'	4.5'	

SIDEWALK RAMP USING AMOR TILE TRUNCATED DOWNS OR EQUIVALENT PER CCAUSD NO. 235, CASE 1

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	TANGENT
C10	49.02'	83.10'	33°48'05"	25.25'
C11	356.46'	3416.90'	5°58'38"	178.39'
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C18	37.72'	63.60'	33°58'55"	19.43'
C19	29.89'	20.00'	85°37'31"	18.53'
C45	31.16'	20.00'	89°15'40"	19.74'
C46	56.67'	102.60'	31°38'57"	29.08'
C47	354.43'	3397.40'	5°58'38"	177.37'



LEGAL DESCRIPTION
LYING WITHIN THE NORTH EAST QUARTER (NE1/4) OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 59 EAST M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

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LVWWD NOTES
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DROP INLET NOTE
WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
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- CONSTRUCTION NOTES**
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 2. CONSTRUCT 4" WIDE SIDEWALK PER CCAUSD NO. 234 (5" THICK 1/2" TYPE II AGGREGATE BASE).
 3. INSTALL MODIFIED ROLL TYPE CURB PER CCAUSD NO. 217.1
 4. INSTALL 10" TYPE II TYPE CURB TO MODIFIED ROLL CURB TRANSITION PER DETAIL 29, SHEET D-3
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 11. INSTALL 48" TYPE II SDMH CCAUSD NO. 401, 402 & 406
 12. REMOVE EX 4.5'X6" NDOT TYPE 2A DROP INLET AND APRON
 13. REMOVE AND REINSTALL 8" WIDE SIDEWALK PER CCAUSD NO. 234
 14. INSTALL 10 STEPS @ 4.1"
 15. INSTALL WROUGHT IRON MAN GATE
 16. INSTALL WROUGHT FENCE PER CCAUSD NO. 425.51
 17. INSTALL THROUGH WALL DRAIN BLOCK PER DETAIL 24, SHEET D-3
 18. SAWCUT AND MATCH EXISTING IMPROVEMENTS (3" AC/6" TYPE OR SCARIFY MATING) PER CCAUSD NO. 500.2 EXISTING STRIPING TO BE REPLACED
- SEE SHEET C-3 FOR LEGEND, ABBREVIATIONS, & QUANTITIES

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BENCHMARK
CITY OF LAS VEGAS BENCHMARK 7LV09 3456
PIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

BASIS OF BEARINGS
NORTH 05°59'50" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135, PAGE 71 OF PLATS.

APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO.: 136382 DATE: 5/13/19



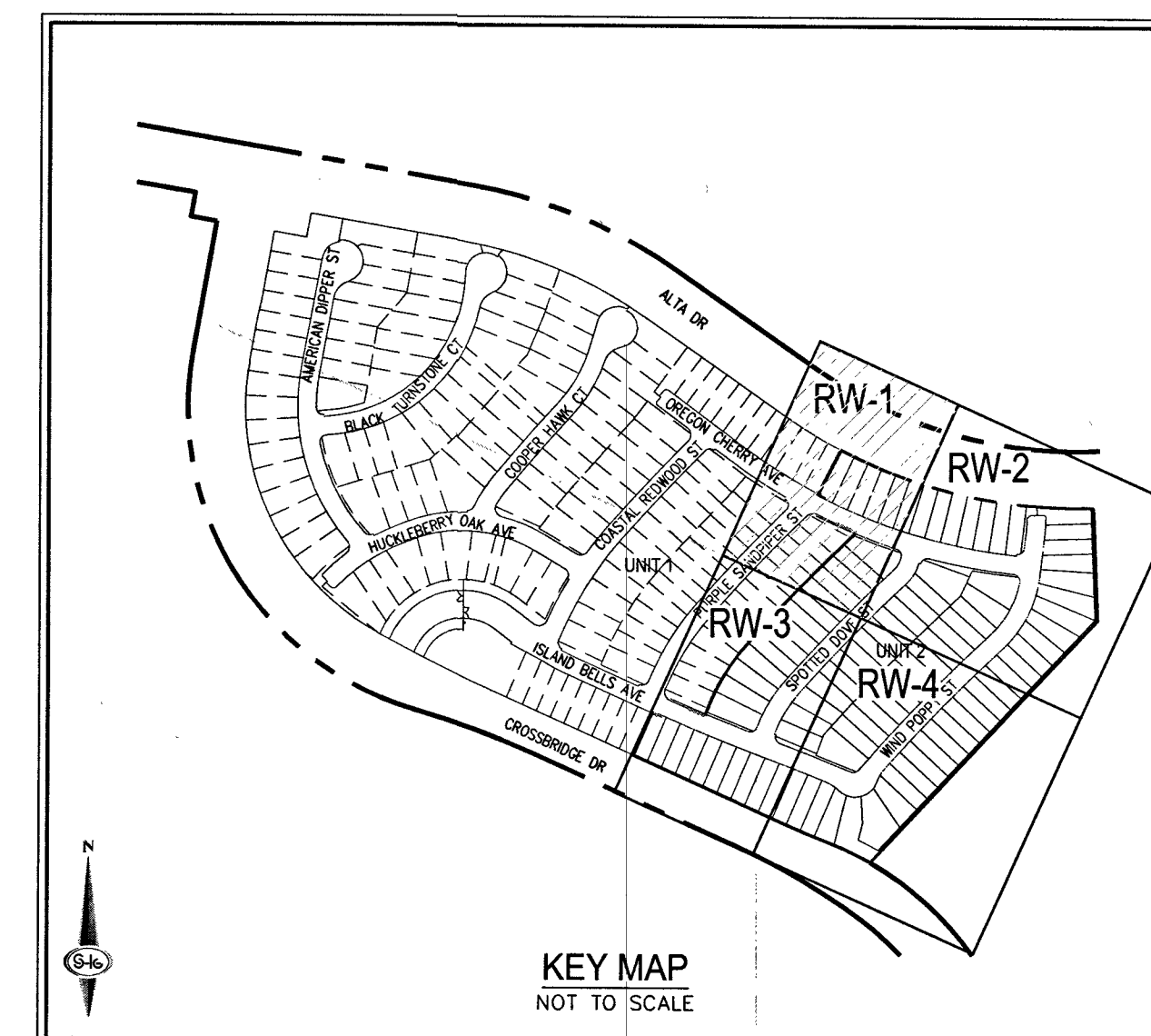
SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

KBHOME
BRISTLE VALE - UNIT 2
PLAN & PROFILE - SPOTTED DOVE ST STA 13+00 TO 16+50

DATE: 5/8/19
DRAFTER: OQ
DESIGNER: OQ
CHECKED: DSP
PROJECT NO.: KBH1804-000

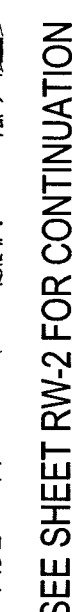
APPROVED FOR CONSTRUCTION
[Signature]
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO.: 136382 DATE: 5/13/19

PP-6
SHEET 16 OF 29
L19-00527
107YS102-2



NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135, PAGE 71 OF PLATS.

CITY OF LAS VEGAS BENCHMARK 7LV09 34SW6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT
SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VIEW
DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)



FAST
Call before you
Underground
1-702-432-5300
FREEWAY & ARTERIAL SYSTEMS
OF TRANSPORTATION (F.A.S.)

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POWER LINES. IT'S
COSTLY.

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Call before you Dig
AVOID CUTTING UNDERGROUND
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PHONE (702) 284-5300
FAX (702) 284-5309

[illegible]

LAS VEGAS, NV

KBHOME
BRISTLE VALE - UNIT 2
RETAINING WALL PLAN I

S 33
T 20S
R 59E

DATE: 5/8/19

DRAFTER: 00

DESIGNED BY: 00

DESIGNER: UQ

CHECKED: DSP

PROJECT NO.

KBH1804.



WAX

TIMOTHY J. MULROONE

Exp. 12/31/201

U.S. DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK
Case No. 22938

51

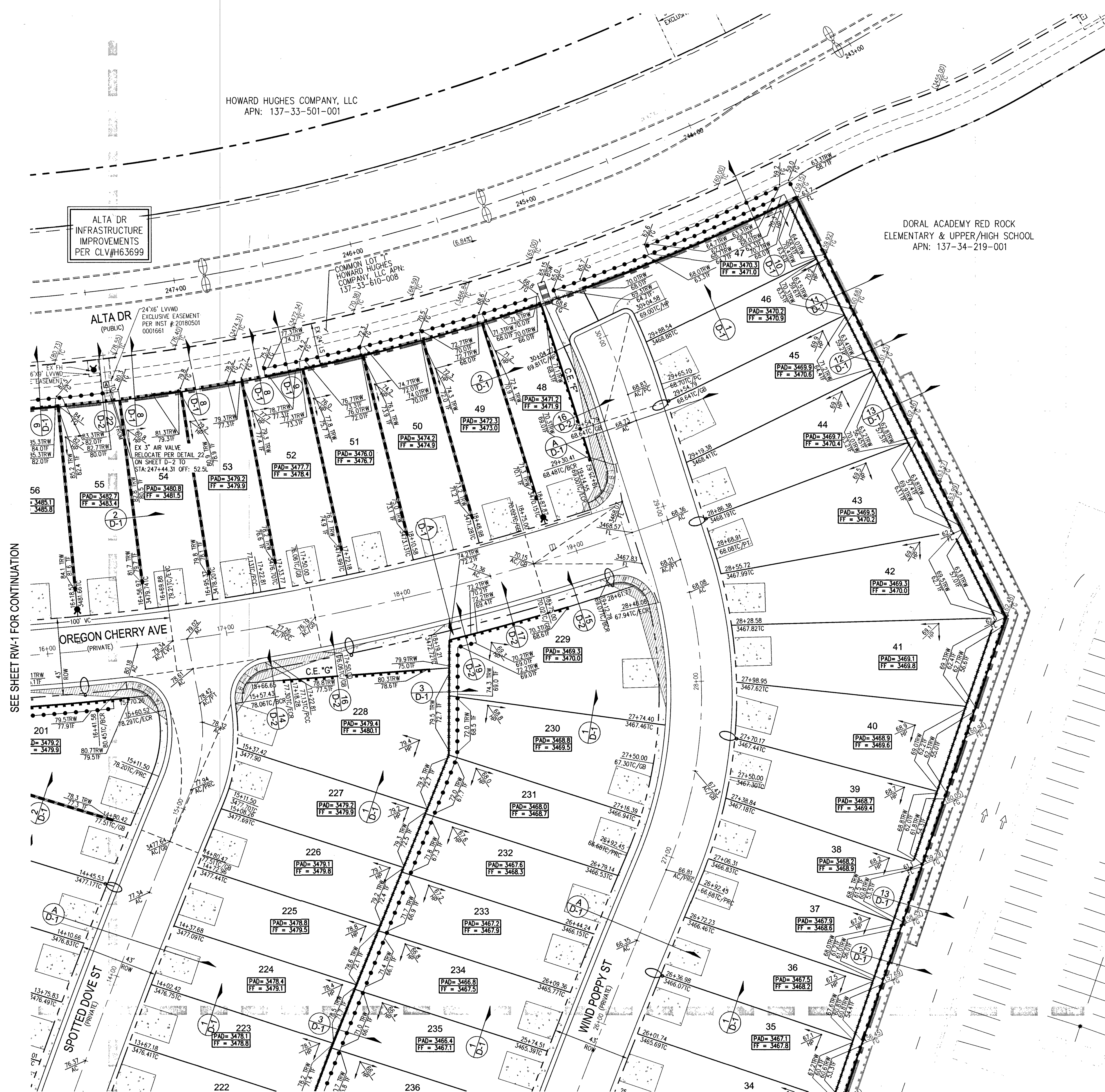
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RW-

SHEET 17 OF 18

L19-00527
107Y5103

10715102-

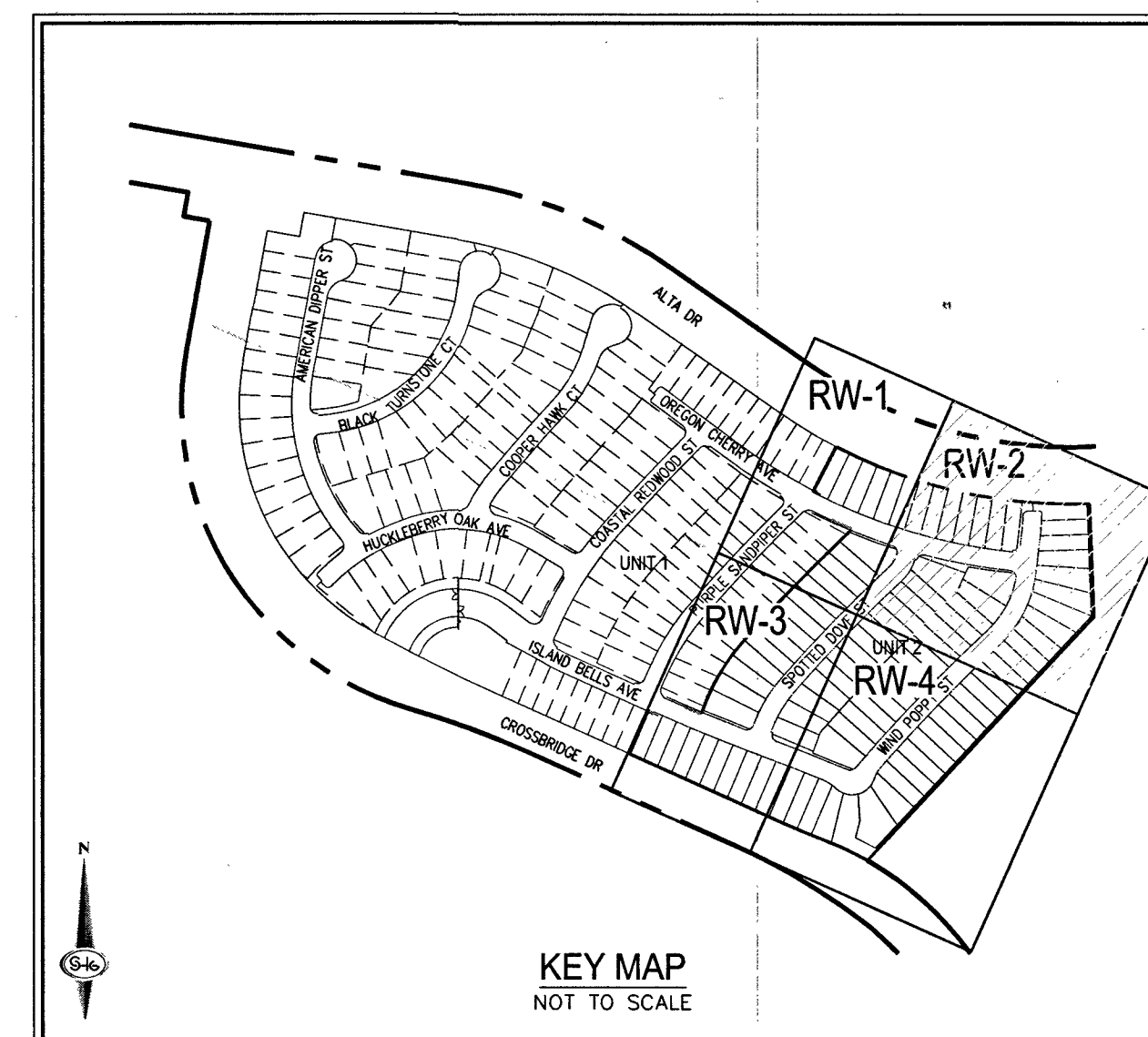
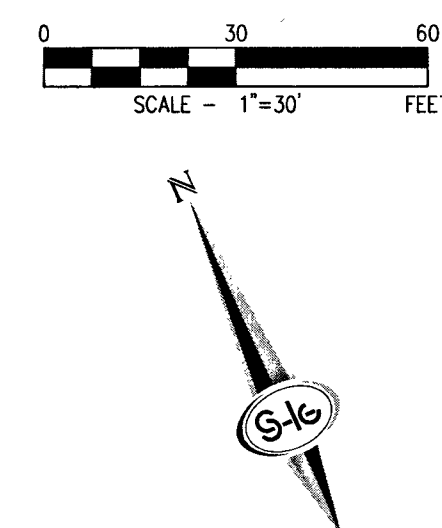


SEE SHEET RW-4 FOR CONTINUATION

HOWARD HUGHES COMPANY, LLC
APN: 137-33-501-001

ALTA DR
INFRASTRUCTURE
IMPROVEMENTS
PER CLV#H63699

DORAL ACADEMY RED ROCK
ELEMENTARY & UPPER/HIGH SCHOOL
APN: 137-34-219-001



BASIS OF BEARINGS

NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135, PAGE 71 OF PLATS.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV09 34SW6

RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE
SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA
DR.

ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

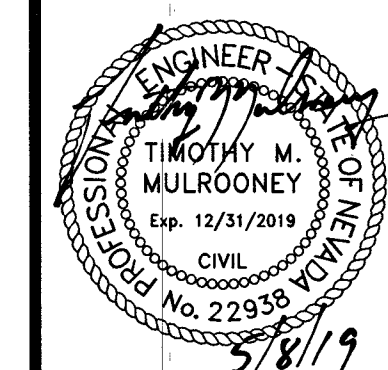
SLATER
SL-GROUP
HANFAN
CONSULTING ENGINEERS & PLANNERS

9740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300
FAX (702) 284-5399

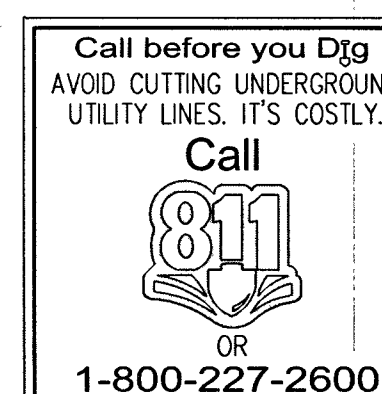
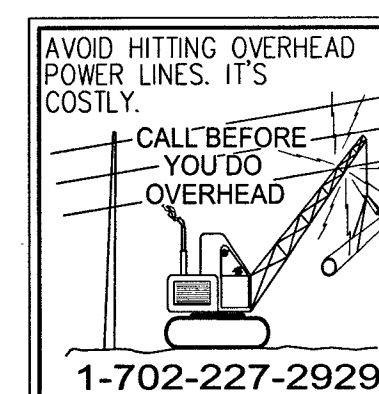
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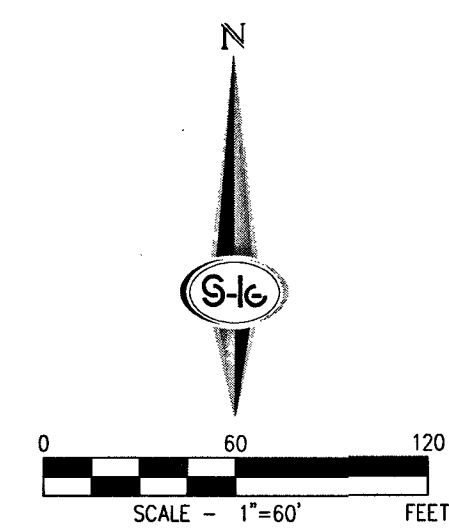
KBHOME
BRISTLE VALE - UNIT 2
RETAINING WALL PLAN II

DATE:	5/8/19
DRAFTER:	OQ
DESIGNER:	OQ
CHECKED:	DSP
PROJECT NO.	KBH1804-000

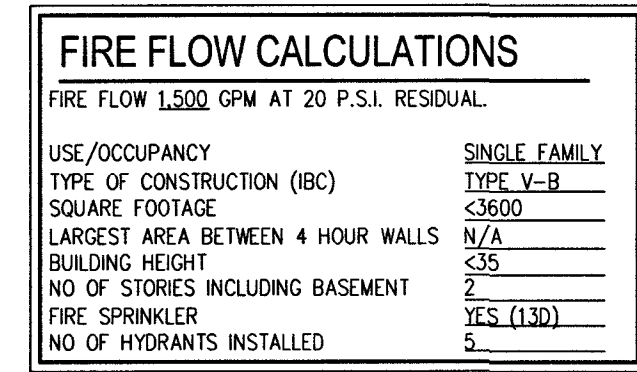


RW-2
SHEET 18 OF 29
L19-00527
107Y5102-2





EASEMENT NOTES

[illegible]

KBHOME
BRISTLE VALE - UNIT 2
MASTER UTILITY PLAN

S33 T-205 R 59E	
-----------------------	--

DATE: 5/8/19
DRAFTER: OQ
DESIGNER: OQ
CHECKED: DSP
PROJECT NO. KBH1804-000

PROJ#:136382A QS:137-33-NE

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before you

Underground

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**FREEWAY & ARTERIAL SYSTEM
OF TRANSPORTATION (F.A.S.T.)**

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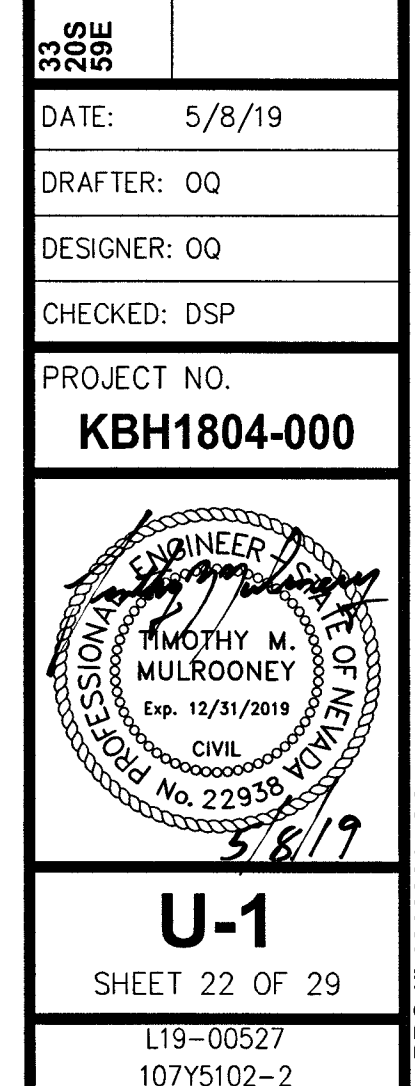
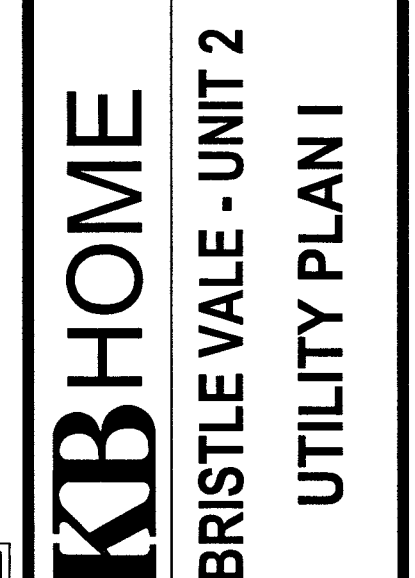
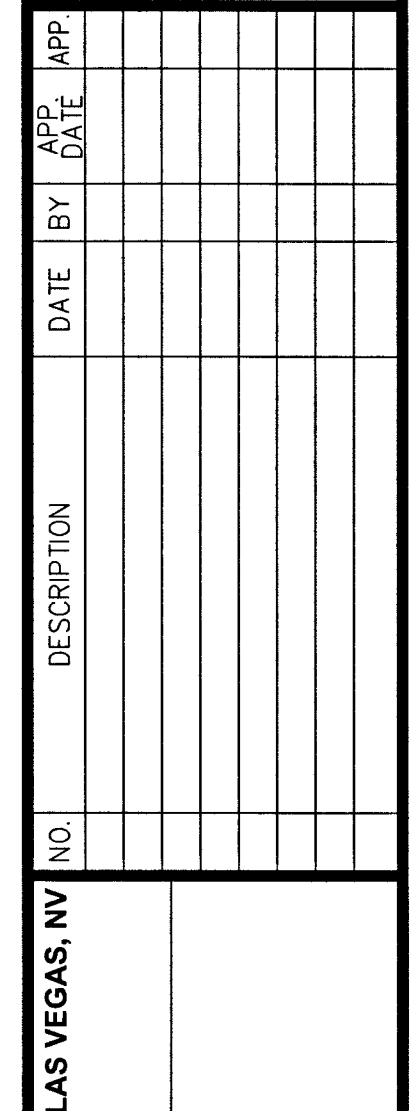
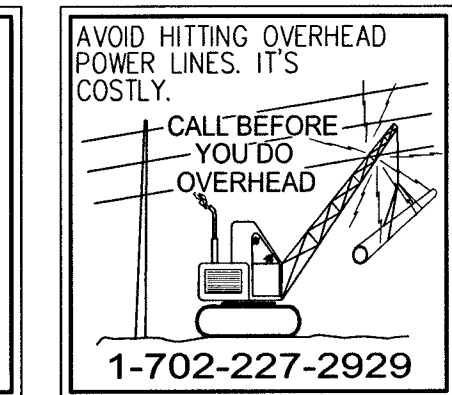
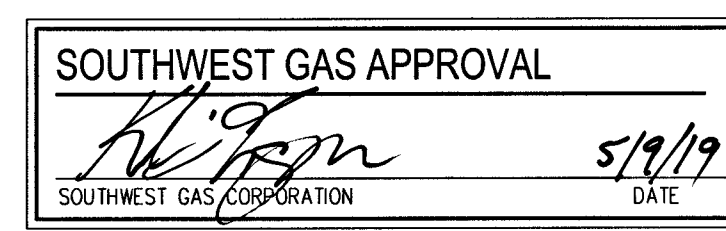
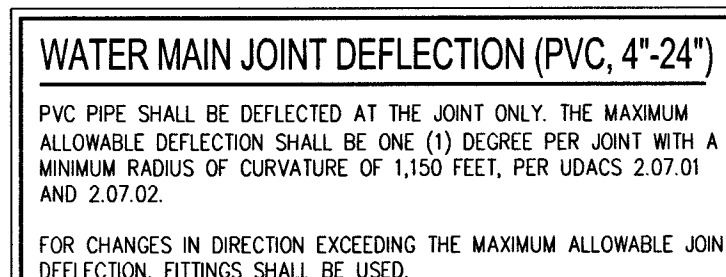
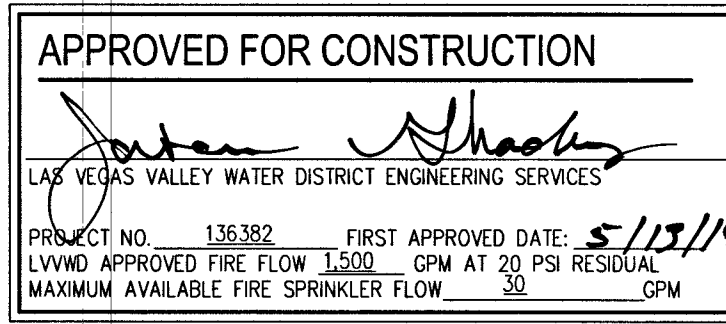
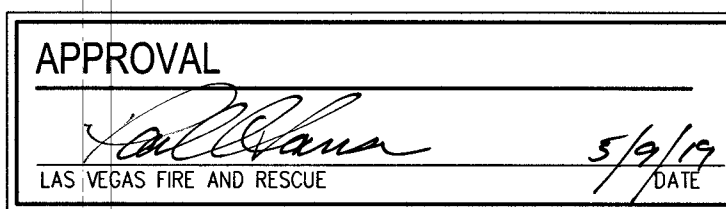
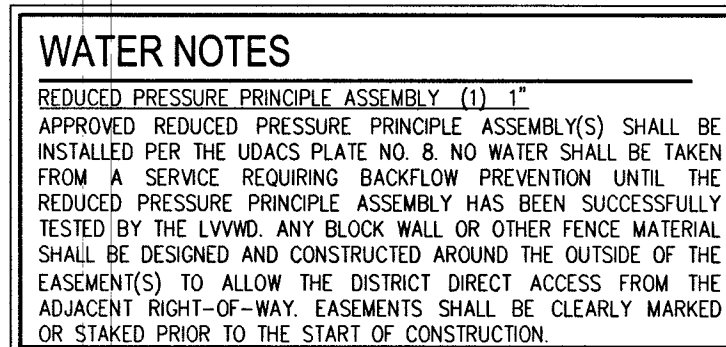
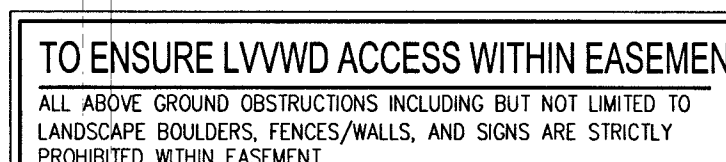
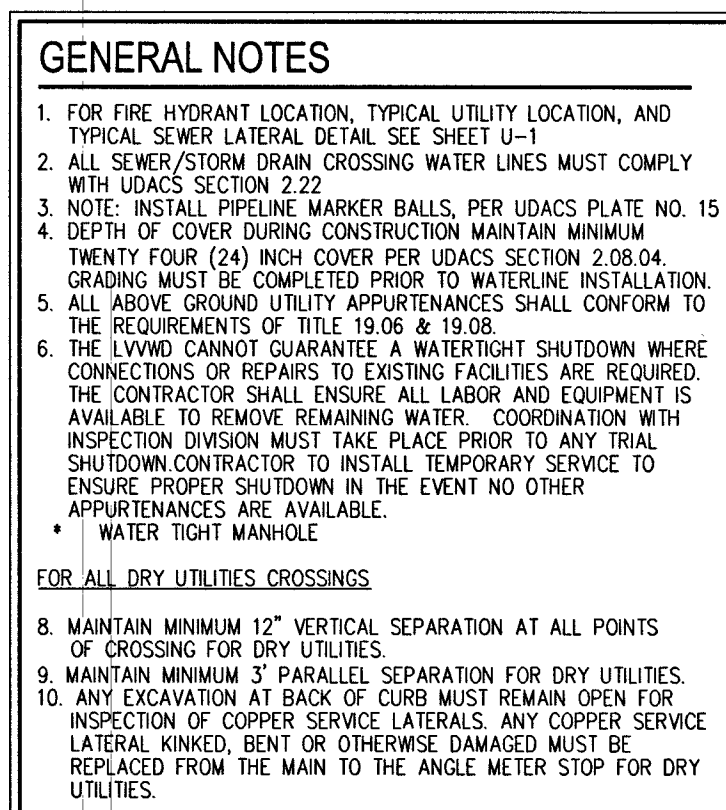
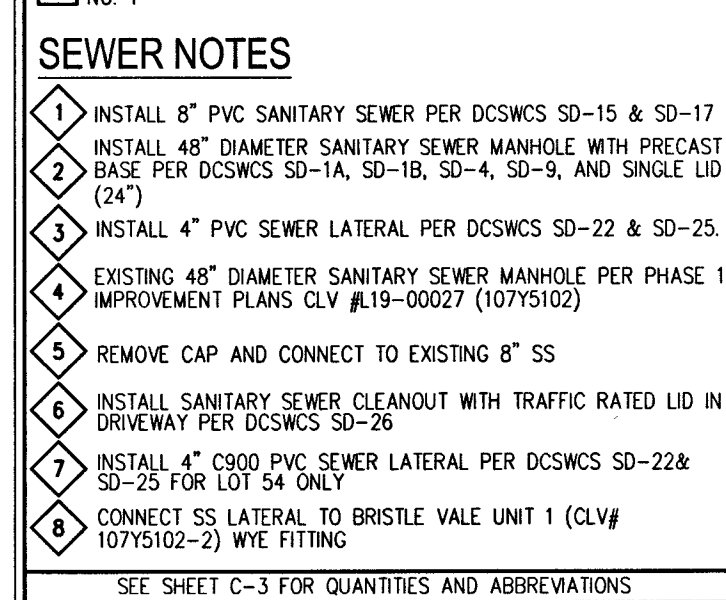
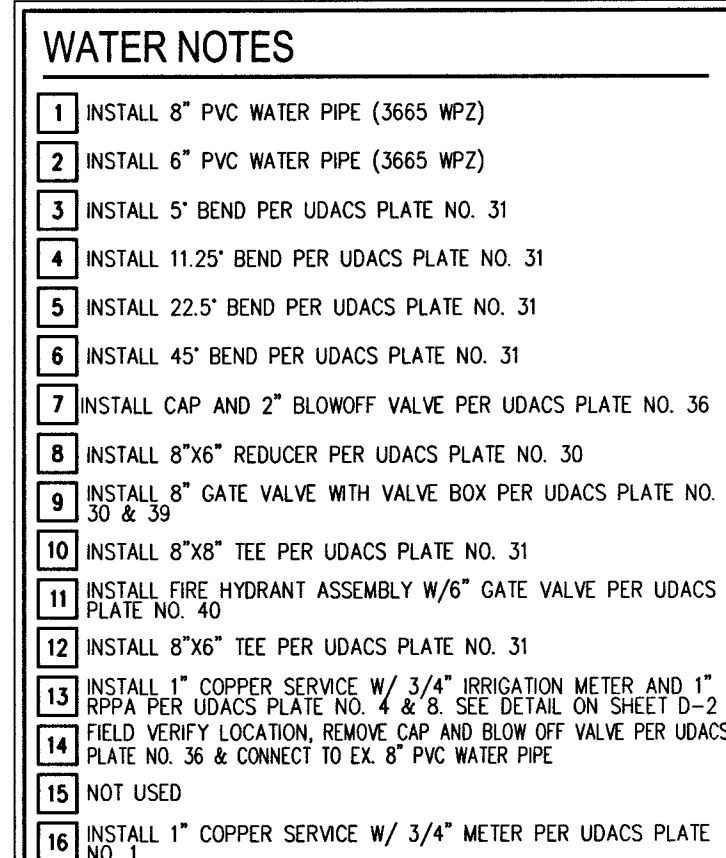
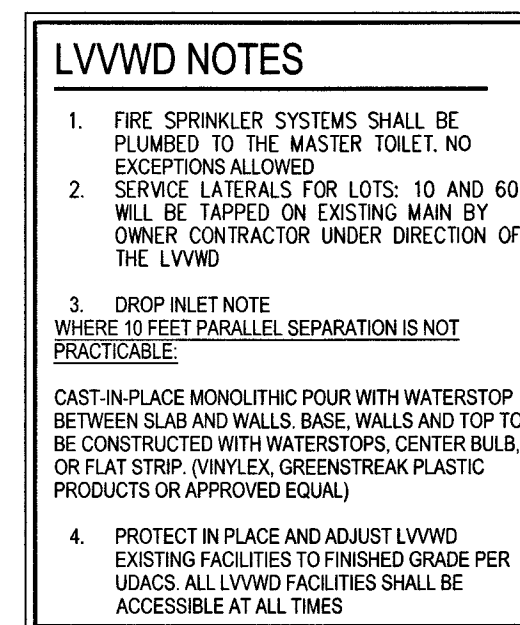
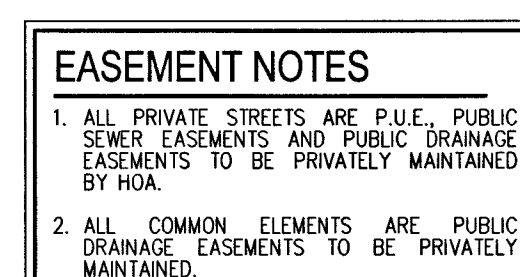
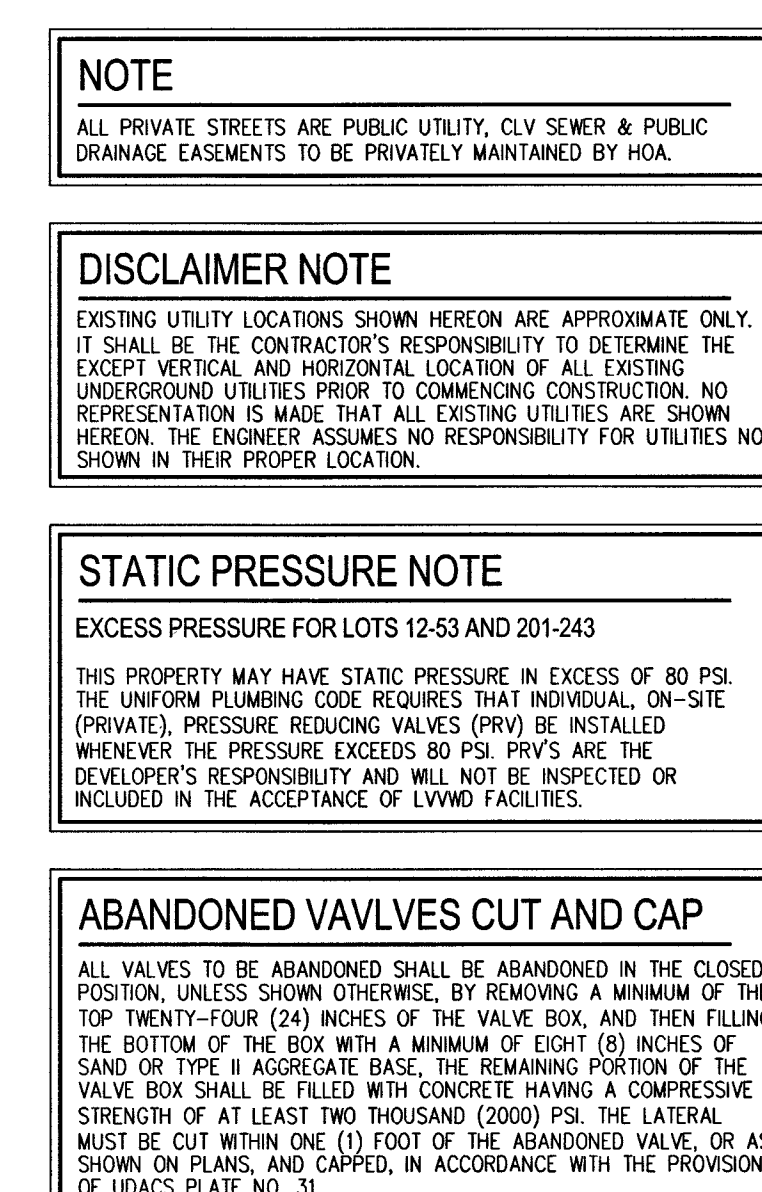
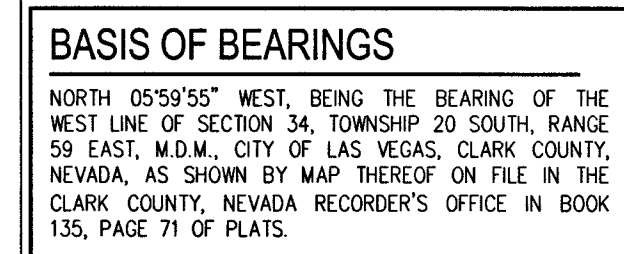
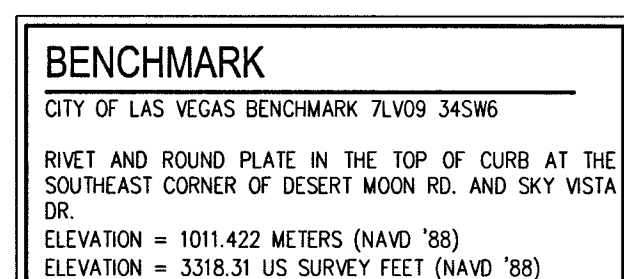
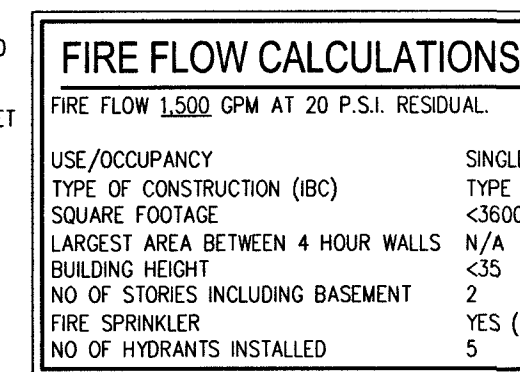
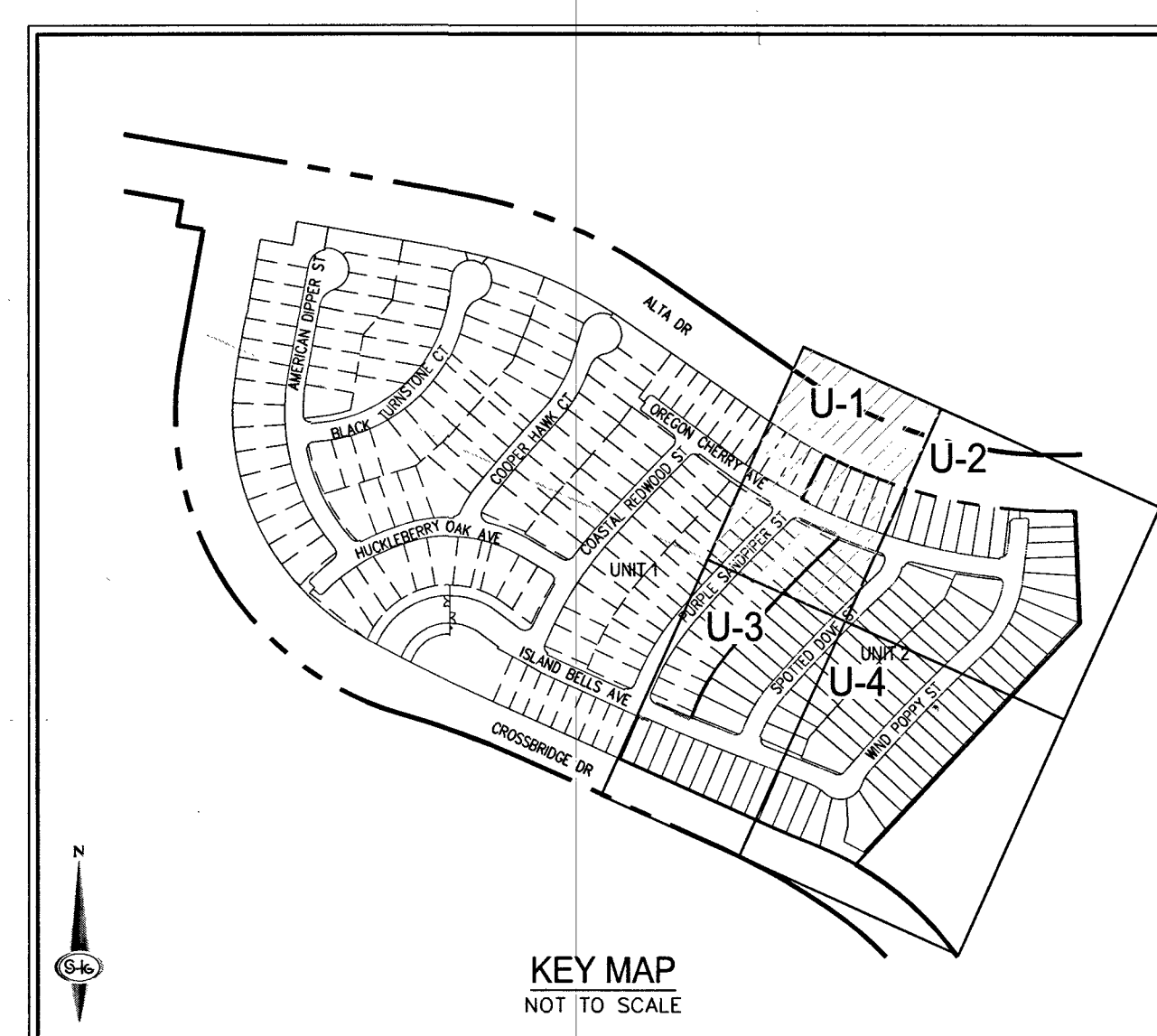
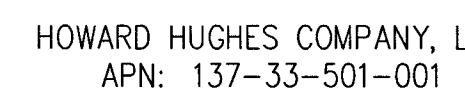
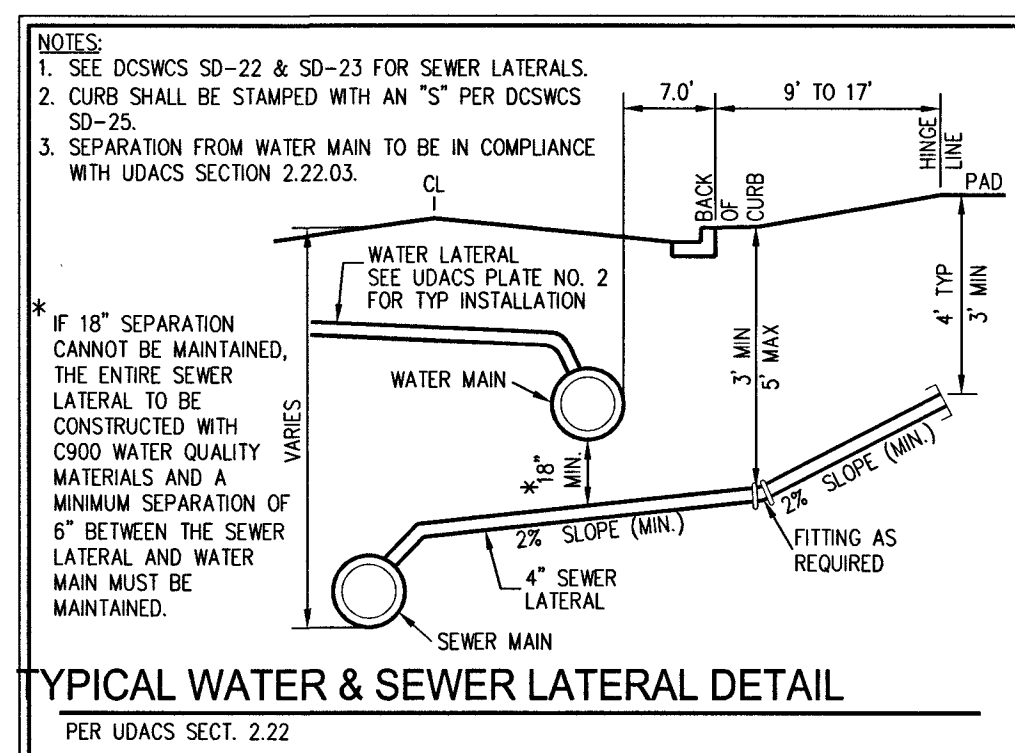
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136382 FIRST APPROVED DATE: 5/13/14

LVVWD APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

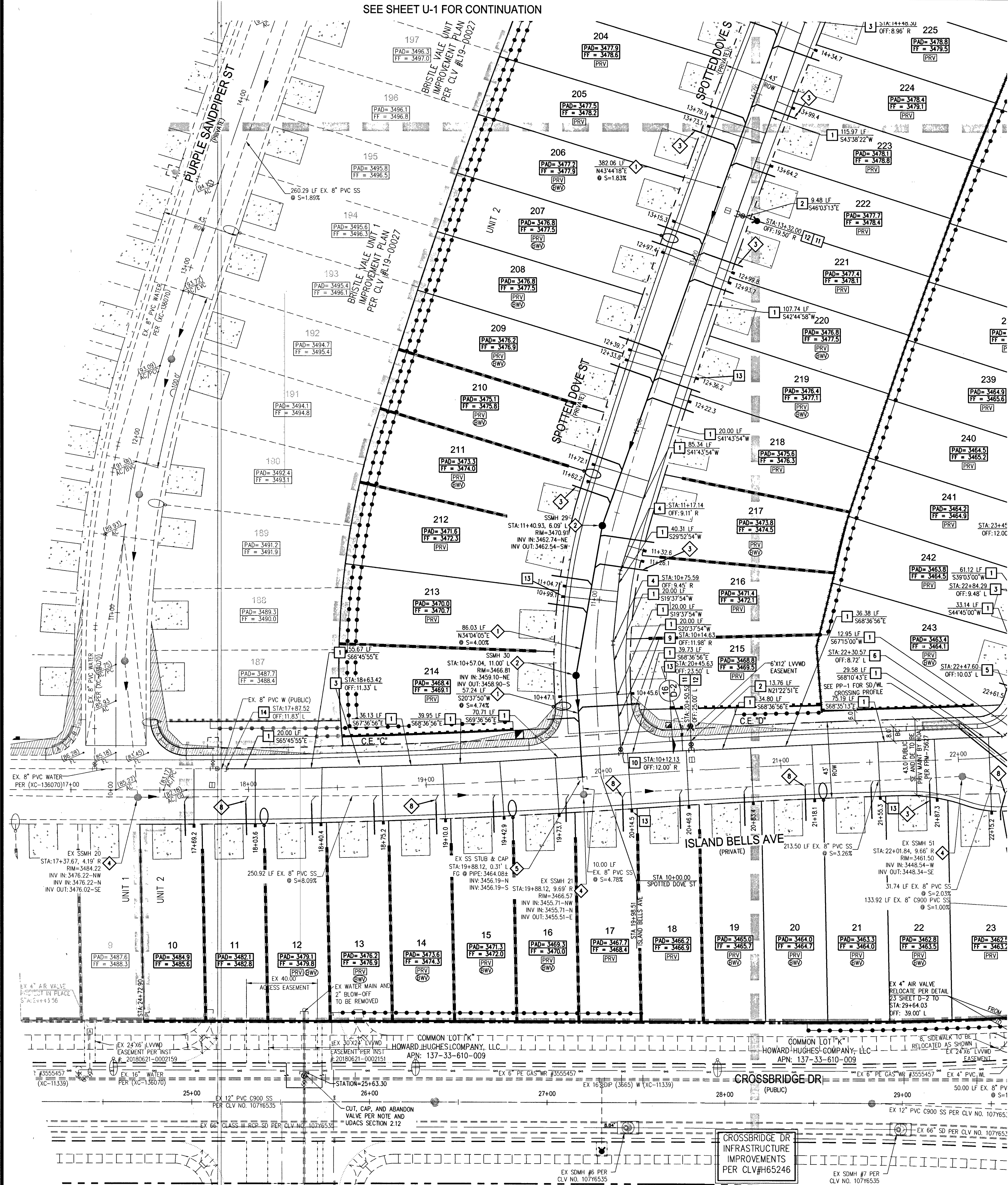
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.
Call
811
OR
1-800-227-2600



i:\kbi1804-000 summerlin v24 porcel 18m\dwg\improv\phase 2\kbi1804-000 utl p2.dwg 5/8/2019 3:18 PM Oscar Quiroz

SEE SHEET U-1 FOR CONTINUATION



SEE SHEET U-4 FOR CONTINUATION

NOTE
ALL PRIVATE STREETS ARE PUBLIC UTILITY. CLV SEWER & PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.

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

STATIC PRESSURE NOTE
EXCESS PRESSURE FOR LOTS 12-53 AND 201-243
THIS PROPERTY MAY HAVE STATIC PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL ON-SITE (PRIVATE), PRESSURE REDUCING VALVES (PRV) BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

ABANDONED VALVES CUT AND CAP
ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE. THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2000) PSI. THE LATERAL MUST BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON PLANS, AND CAPPED, IN ACCORDANCE WITH THE PROVISION OF UDACS PLATE NO. 31.

EASEMENT NOTES
1. ALL PRIVATE STREETS ARE P.U.E. PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA.
2. ALL COMMON ELEMENTS ARE PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

LVVWD NOTES
1. FIRE SPRINKLER SYSTEMS SHALL BE PLUMBING TO THE MASTER TOILET. NO EXCEPTIONS ALLOWED.
2. SERVICE LATERALS FOR LOTS 10 AND 60 WILL BE TAPPED ON EXISTING MAIN BY OWNER CONTRACTOR UNDER DIRECTION OF THE LVVWD.
3. DROP INLET NOTE WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE.
4. PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

WATER NOTES
1. INSTALL 8" PVC WATER PIPE (3665 WP2)
2. INSTALL 6" PVC WATER PIPE (3665 WP2)
3. INSTALL 5" BEND PER UDACS PLATE NO. 31
4. INSTALL 11.25" BEND PER UDACS PLATE NO. 31
5. INSTALL 22.5" BEND PER UDACS PLATE NO. 31
6. INSTALL 45" BEND PER UDACS PLATE NO. 31
7. INSTALL CAP AND 2" BLOWOFF VALVE PER UDACS PLATE NO. 36
8. INSTALL 8"X6" REDUCER PER UDACS PLATE NO. 30
9. INSTALL 8" GATE VALVE WITH VALVE BOX PER UDACS PLATE NO. 30 & 39
10. INSTALL 8"X6" TEE PER UDACS PLATE NO. 31
11. INSTALL FIRE HYDRANT ASSEMBLY W/6" GATE VALVE PER UDACS PLATE NO. 40
12. INSTALL 1" COPPER SERVICE W/ 3/4" IRRIGATION METER AND 1" RPPA PER UDACS PLATE NO. 4 & 8. SEE DETAIL ON SHEET D-2
13. FIELD VERIFY LOCATION, REMOVE CAP AND BLOW OFF VALVE PER UDACS PLATE NO. 36 & CONNECT TO EX. 8" PVC WATER PIPE
14. NOT USED
15. NOT USED
16. INSTALL 1" COPPER SERVICE W/ 3/4" METER PER UDACS PLATE NO. 1

SEWER NOTES
1. INSTALL 8" PVC SANITARY SEWER PER DCSWCS SD-15 & SD-17
2. INSTALL 48" DIAMETER SANITARY SEWER MANHOLE WITH PRECAST BASE PER DCSWCS SD-1A, SD-1B, SD-4, SD-9, AND SINGLE LID (24")
3. INSTALL 4" PVC SEWER LATERAL PER DCSWCS SD-22 & SD-25
4. EXISTING 48" DIAMETER SANITARY SEWER MANHOLE PER PHASE 1 IMPROVEMENT PLANS CLV #19-00027 (1075102)
5. REMOVE CAP AND CONNECT TO EXISTING 8" SS
6. INSTALL SANITARY SEWER CLEANOUT WITH TRAFFIC RATED LID IN DRIVEWAY PER DCSWCS SD-26
7. INSTALL 4" C900 PVC SEWER LATERAL PER DCSWCS SD-228 SD-25 FOR LOT 54 ONLY
8. CONNECT SS LATERAL TO BRISTLE VALE UNIT 1 (CLV# 1075102-2) WYE FITTING
SEE SHEET C-3 FOR QUANTITIES AND ABBREVIATIONS

GENERAL NOTES
1. FOR FIRE HYDRANT LOCATION, TYPICAL UTILITY LOCATION, AND TYPICAL SEWER LATERAL DETAIL SEE SHEET U-1
2. ALL SEWER/STORM DRAIN CROSSING WATER LINES MUST COMPLY WITH UDACS SECTION 2.22
3. NOTE: INSTALL PIPELINE MARKER BALLS PER UDACS PLATE NO. 15
4. DEPTH OF COVER DURING CONSTRUCTION MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04 GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.
5. ALL ABOVE GROUND UTILITY APPEARANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 18.06 & 18.08
6. THE LVVWD CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMAINING WATER. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRAIL SHUTDOWN. CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPEARANCES ARE AVAILABLE.
7. WATER TIGHT MANHOLE
FOR ALL DRY UTILITIES CROSSINGS
8. MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINTS OF CROSSING FOR DRY UTILITIES
9. MAINTAIN MINIMUM 3" PARALLEL SEPARATION FOR DRY UTILITIES
10. ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR THE DURATION OF COOPER SERVICE LATERALS. ANY COOPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP FOR DRY UTILITIES

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

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

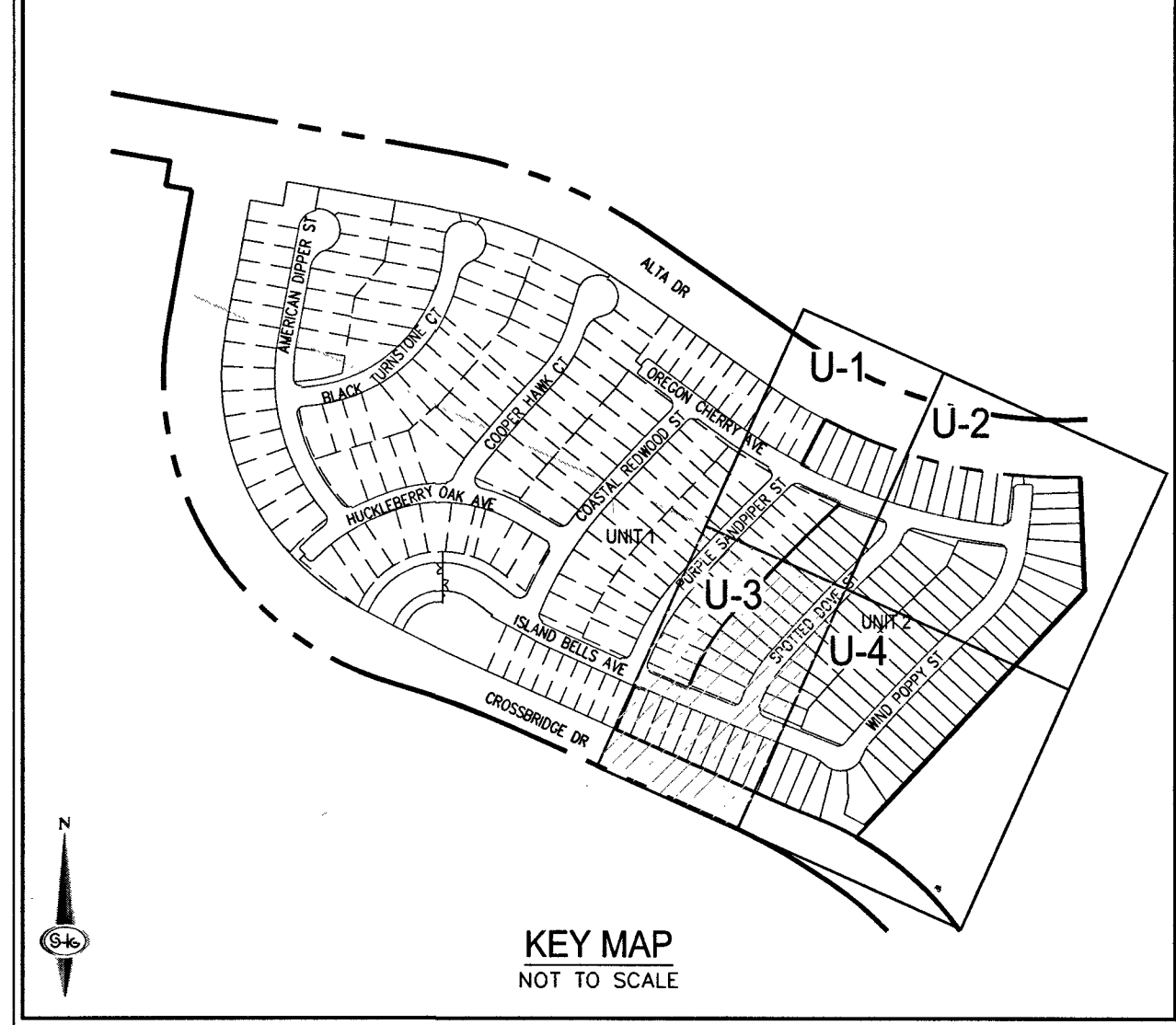
APPROVAL
LAS VEGAS FIRE AND RESCUE
5/9/19
DATE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 136382
FIRST APPROVED DATE: 5/15/19
LVVWD APPROVED FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
MAXIMUM AVAILABLE FIRE SPRINKLER FLOW 30 GPM

SOUTHWEST GAS APPROVAL
SOUTHWEST GAS CORPORATION
5/9/19
DATE

FAST
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Underground
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FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.)

Call before you Dig
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.
CALL BEFORE YOU DO OVERHEAD
Call 811
OR
1-800-227-2600



FIRE FLOW CALCULATIONS
FIRE FLOW 1500 GPM AT 20 PSI RESIDUAL
USE/OCCUPANCY SINGLE FAMILY
TYPE OF CONSTRUCTION (BC) TYPE V-B
SQUARE FOOTAGE <3600
LARGEST AREA BETWEEN 4 HOUR WALLS N/A
BUILDING HEIGHT <35
NO OF STORIES INCLUDING BASEMENT 2
FIRE SPRINKLER YES (130)
NO OF HYDRANTS INSTALLED 5

BENCHMARK
CITY OF LAS VEGAS BENCHMARK 7LV09 345W6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA DR.
ELEVATION = 1011.422 METERS (NAVD 88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD 88)

BASIS OF BEARINGS
NORTH 059°55' WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135, PAGE 71 OF PLATS.

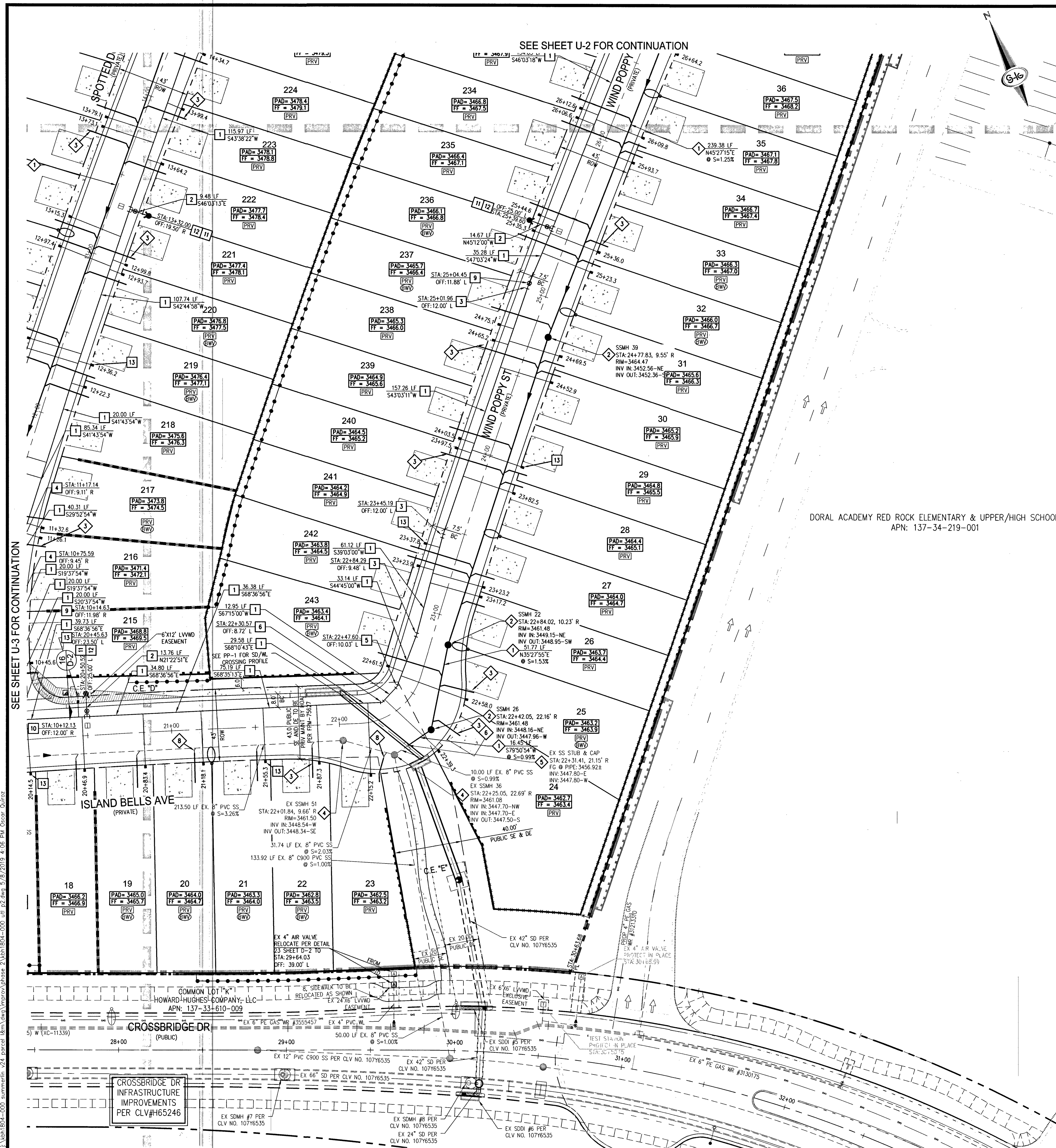
SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5309

KBHOME
BRISTLE VALE - UNIT 2
UTILITY SHEET III

DATE: 5/8/19
DRAFTER: OQ
DESIGNER: OQ
CHECKED: DSP
PROJECT NO. KBH1804-000

U-3
SHEET 24 OF 29
L19-00527
1075102-2

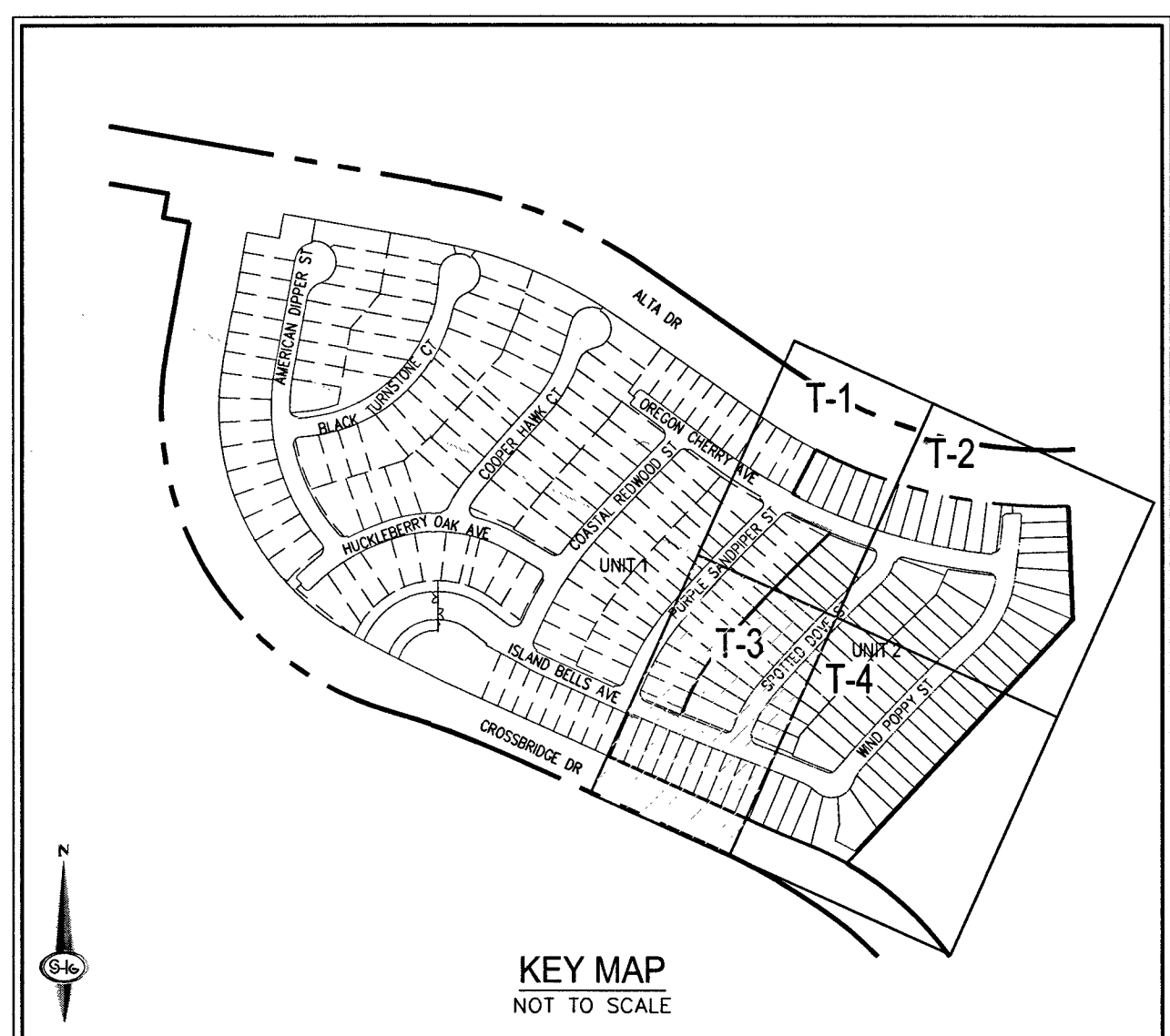
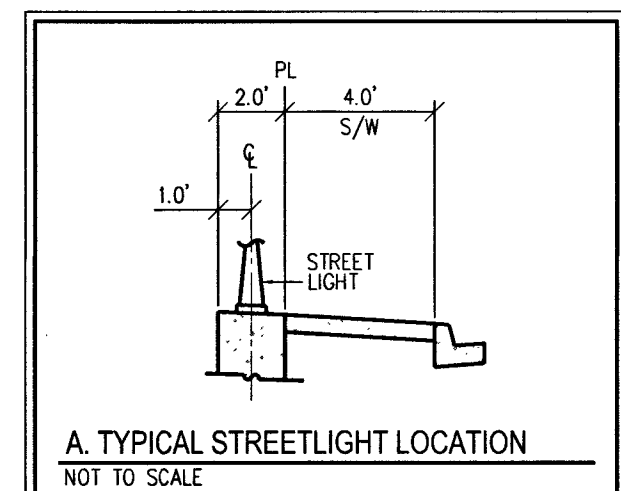
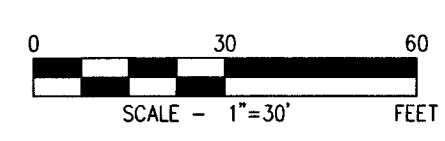
PROJ# 136382 QBSA 137-33-NE



SEE SHEET U-2 FOR CONTINUATION

NOTE

FIRE FLOW CALCULATIONS



- ## ELECTRICAL NOTES
1. ALL UNDERGROUND CONDUIT SHALL BE TYPE RMC (RIGID NONMETALLIC CONDUIT). SCHEDULE 40 PVC AND SHALL BE INSTALLED PER THIS SHEET. ABOVE GRADE CONDUIT SHALL BE TYPE EMT (RIGID METALLIC CONDUIT). CONDUIT RISERS SHALL BE TYPE RMC WITH PVC COATING OR TUBE WRAP. ALL CONDUIT WHICH WOULD OTHERWISE BE EMPTY SHALL BE FILLED WITH A NYLON PULPSTAMP AND TAGS FOR LOCATION PURPOSES.
 2. ALL CONDUCTOR SHALL BE STRANDED, 600V, TYPE THW INSULATED COPPER.
 3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND MATERIALS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION.

- BENCHMARK**
CITY OF LAS VEGAS BENCHMARK 7LV09 345W6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE
SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA
DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

- ## ELECTRICAL SERVICE NOTES
- SPI: 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTAL FEEDER FROM N.P.CO. POINT OF CONNECTION TO BE 2". 84°O WHITE THW, 1/4" O WHITE THW (COPPER) TRANSFORMER TO SERVICE PEDestal DISTANCE'S GREATER THAN 200 FEET FOR ALL CONDITIONS SHALL BE DETERMINED BY ENGINEER. SERVICE PEDESTAL SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER. THE FOLLOWING SHALL BE INCLUDED IN THE SERVICE PEDESTAL:
- (1) 60 AMP, 240V, 2-POLE CIRCUIT BREAKERS,
 - (2) 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS,
 - (3) TEST SWITCHES (ONE FOR EACH CONTACTOR), PHOTOELECTRIC CONTROL, 120V, 120V - 120V, 120V - 120V RELEASER FOR LIGHTING CONTROLS.
- CONTRACTOR TO PROVIDE (2) 1-1/4" CONDUITS FROM SERVICE PEDESTAL TO FIRST STREETLIGHTING PULBOK. SERVICE pedestal shall comply with CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330.331, 332.1 AND 335.1.

- BASIS OF BEARINGS**
- NORTH 05°59'55" WEST, BEING THE BEARING OF THE WEST LINE OF SECTION 34, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS SHOWN BY MAP THEREOF ON FILE IN THE CLARK COUNTY, NEVADA RECORDER'S OFFICE IN BOOK 135, PAGE 71 OF PLATS.

- ## GENERAL NOTES
1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED MUST MEET CLARK COUNTY'S SPECIFICATIONS OR WILL WILL BE AN APPROVED EQUIVALENT.
 2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN MSA LEVEL 1 ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 523.01.00.02.
 3. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.
 4. ALL ONSITE PRIVATE STREETS ARE P.U.E.S., QLV PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

- # TRAFFIC NOTES
1. INSTALL 100W FWS STREET LIGHT WITH DECORATIVE POLE PER SUMMERLIN STANDARDS, FOUNDATION PER CCAUSD # 313, 314, 319, 320 & 321
 2. INSTALL NO. 3-1/2" PULLBOX PER CCAUSD # 326
 3. INSTALL 1-1/4" STREET LIGHT CONDUIT CONTAINING 2-#4, 1-#8 GND
 4. INSTALL 125 AMP SERVICE PEDESTAL PER CCAUSD # 331 & 332 S2 (FOR IRRIGATION)
 5. INSTALL SIGN PER PLAN (SEE LEGEND FOR SIGN DESCRIPTION)
 6. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER
 7. PAINT CURB RED 15' BOTH DIRECTION OF FIRE HYDRANT FOR A TOTAL OF 30' (WHEN CURB LENGTH PERMITTED)
 8. EXISTING NO. 3-1/2" PULLBOX PER CLV 119-00027 (BRISTLE VALE-UNIT 1)
 9. INSTALL 200 AMP SERVICE PEDESTAL PER CCAUSD #331, 332 S2 AND SUMMERLIN IMPROVEMENT STANDARD DETAIL FOR SINGLE SERVICE PEDESTAL (E-17)
- SEE SET C-3 FOR ASSASSINATIONS, QUANTITIES & ADDITIONAL LEGEND

- # SIGN LEGEND
- | | |
|--|--|
|  | 9' STREET NAME SIGN (D-3). BROWN WITH WHITE LETTERS. 2 PER POLE)
PER SUMMERLIN IMPROVEMENT STANDARDS RS-1 (MAIN ST) |
|  | 30" OR 36" STOP SIGN W/POST (R1-1) SIZE PER PLAN |
|  | TYPE A SIGN PER "SOUTHERN NEVADA FIRE CODE AMENDMENTS" SECTION 503.3 |
|  | SPEED LIMIT (R2-1) - 24"x30" |
|  | REFLECTIVE RAISED PAVEMENT MARKERS |
|  | 100W STREETLIGHT |
|  | EXISTING 250W STREETLIGHT |
|  | NO. 3-1/2 PULL BOX (STREET LIGHT) |
|  | P30 FIBER OPTIC PULL BOX (FAST) |
|  | STREETLIGHT SERVICE PEDESTAL |
|  | IRRIGATION SERVICE PEDESTAL |
|  | TRAFFIC SIGN (AS INDICATED) |
|  | TYPE IIB BARRICADE PER CCAUSD NO. 601 FOR TEMPORARY USE |
|  | 18"x18" END OF ROAD MARKERS (OM4-1) (RED REFLECTIVE DIAMONDS) PER CCAUSD NO. 601 |
|  | SIGN VISIBILITY ZONE |
| SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES | |

APPROVAL _____
[Signature]
 LAS VEGAS FIRE AND RESCUE
 5/9/19 DATE

FAST

Call before you

UnderGround

1-702-432-5300

**FREeway & ARTERIAL SYSTEM
OF TRANSPORTATION (F.A.S.T.)**

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

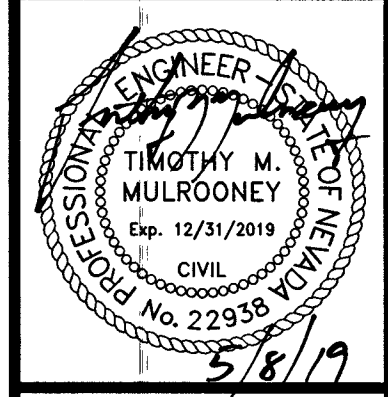
**SLATER
HANIFAN
GROUP**
a Westwood team
S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

[illegible]

LAS VEGAS, NV

KB HOME
BRISTLE VALE - UNIT 2
TRAFFIC PLAN III

S33 T-205 R 599	
DATE:	5/8/19
DRAFTER:	OQ
DESIGNER:	OQ
CHECKED:	DSP
PROJECT NO. KBH1804-000	



T-3
SHEET 28 OF 29
L19-00527
107Y5102-2

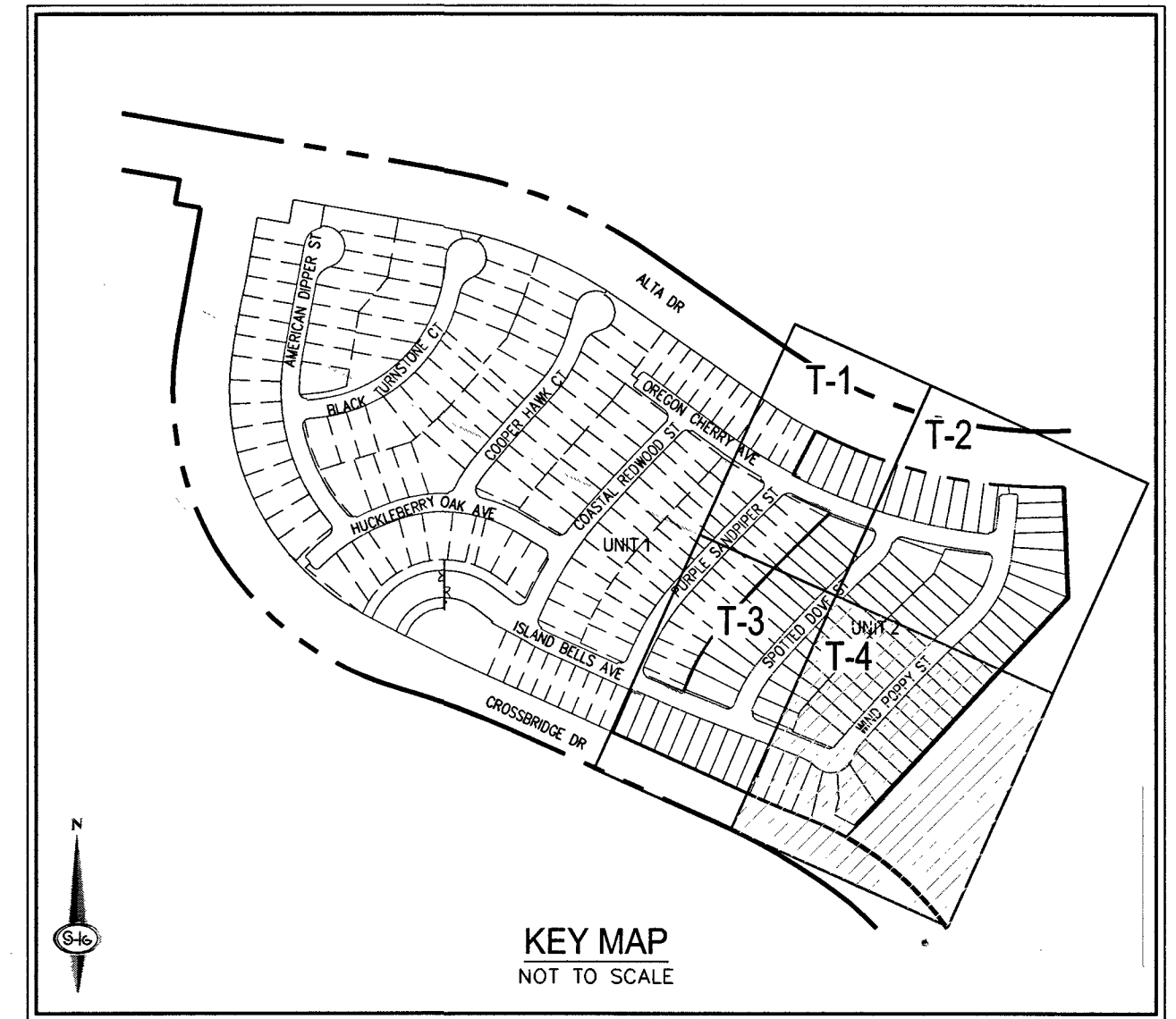
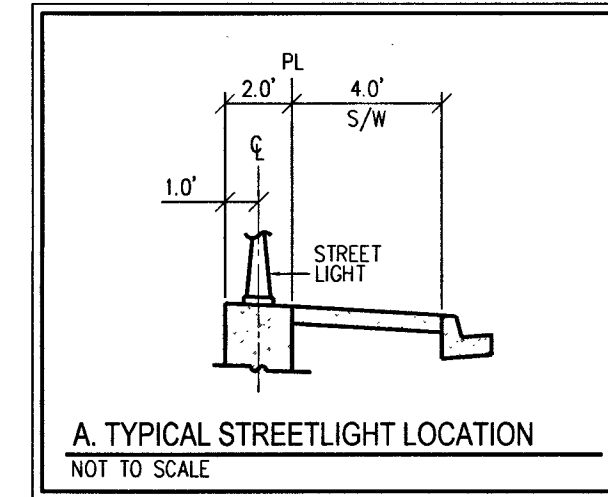
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SEE SHEET T-3 FOR CONTINUATION

SEE SHEET T-2 FOR CONTINUATION

DORAL ACADEMY RED ROCK ELEMENTARY & UPPER/HIGH SCHOOL
APN: 137-34-219-001

0 30 60
SCALE - 1"=30'
FEET



ELECTRICAL NOTES

1. ALL UNDERGROUND CONDUIT SHALL BE TYPE RNC (RIGID NONMETALLIC CONDUIT). SCHEDULE 40 PVC AND SHALL BE INSTALLED PER DETAIL THIS SHEET. ABOVE GRADE CONDUIT SHALL BE TYPE OM4 (RIGID METALLIC CONDUIT). CONDUIT RISERS SHALL BE TYPE RNC WITH PVC COATING OR TAPE WRAP. ALL CONDUIT WHICH WOULD OTHERWISE BE EMPTY SHALL INCLUDE A NYLON PULLSTRING AND 1/8" FOR LOCATING PURPOSES.
2. ALL CONDUCTOR SHALL BE STRANDED, 600V, TYPE THW INSULATED COPPER.
3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND HARDWARE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE LATEST EDITION, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK 7LV09 34SW6
RIVET AND ROUND PLATE IN THE TOP OF CURB AT THE
SOUTHEAST CORNER OF DESERT MOON RD. AND SKY VISTA
DR.
ELEVATION = 1011.422 METERS (NAVD '88)
ELEVATION = 3318.31 US SURVEY FEET (NAVD '88)

ELECTRICAL SERVICE NOTES

- SPI: 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTAL. FEEDER FROM N.P.C.D. POINT OF CONNECTION TO BE 2" C, 24" D THW, 1/4" O WHITE THW (COPPER). TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 250 FEET FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER. SERVICE PEDESTAL SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER. THE FOLLOWING SHALL BE INCLUDED IN THE SERVICE PEDESTAL:
- (1) 15 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTROLS.
 - (2) 60 AMP, 240V, 2-POLE CIRCUIT BREAKERS.
 - (2) 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS.
 - (2) TEST SWITCHES (ONE FOR EACH CONTACTOR), PHOTOELECTRICAL CONTROL.
- CONTRACTOR TO PROVIDE (2) 1-1/4" CONDUITS FROM SERVICE PEDESTAL TO FIRST STREETLIGHTING PULLBOX. SERVICE PEDESTAL SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330, 331, 332.1 AND 335.1.

GENERAL NOTES

1. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION, THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
2. IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN IMSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.6.01.02.
3. NO STRUCTURE, VEGETATION, OR OBJECTS OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXIST) WITHIN THE SIGHT VISIBILITY ZONES.
4. ALL ON-SITE PRIVATE STREETS ARE P.U.E.S. CLV PUBLIC SEWER EASEMENTS AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

TRAFFIC NOTES

1. INSTALL 100W HPS STREET LIGHT WITH DECORATIVE POLE PER SUMMERLIN STANDARDS, FOUNDATION PER CCAUSD # 313, 314, 319, 320 & 321
 2. INSTALL NO. 3-1/2 PULLBOX PER CCAUSD # 326
 3. INSTALL 1-1/4" STREET LIGHT CONDUIT CONTAINING 2-#4, 1-#8 GND
 4. INSTALL 125 AMP SERVICE PEDESTAL PER CCAUSD # 331 & 332.52 (FOR IRRIGATION)
 5. INSTALL SIGN PER PLAN (SEE LEGEND FOR SIGN DESCRIPTION)
 6. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKER
 7. PAINT CURB RED 15' BOTH DIRECTION OF FIRE HYDRANT FOR A TOTAL OF 30' (WHEN CURB LENGTH PERMITTED)
 8. EXISTING NO. 3-1/2 PULLBOX PER CLV L19-00027 (BRISTLE VALE-UNIT 1)
 9. INSTALL 200 AMP SERVICE PEDESTAL PER CCAUSD #331, 332.52 AND SUMMERLIN IMPROVEMENT STANDARD DETAIL FOR SINGLE SERVICE PEDESTAL (E-17)
- SEE SHEET C-3 FOR ABBREVIATIONS, QUANTITIES & ADDITIONAL LEGEND

SIGN LEGEND

- 9" STREET NAME SIGN (D-3, BROWN WITH WHITE LETTERS, 2 PER POLE) PER SUMMERLIN IMPROVEMENT STANDARDS RS-1 (MAIN "S")
- 30" OR 36" STOP SIGN W/POST (R1-1) SIZE PER PLAN
- TYPE A SIGN PER "SOUTHERN NEVADA FIRE CODE AMENDMENTS" SECTION 503.3
- SPEED LIMIT (R2-1) - 24"x30"
- REFLECTIVE RAISED PAVEMENT MARKERS
- 100W STREETLIGHT
- EXISTING 250W STREETLIGHT
- NO. 3-1/2 PULL BOX (STREET LIGHT)
- P30 FIBER OPTIC PULL BOX (FAST)
- STREETLIGHT SERVICE PEDESTAL
- IRRIGATION SERVICE PEDESTAL
- TRAFFIC SIGN (AS INDICATED)
- TYPE IIB BARRICADE PER CCAUSD NO. 601 FOR TEMPORARY USE
- 18"x18" END OF ROAD MARKERS (OM4-1) (RED REFLECTIVE DIAMONDS) PER CCAUSD NO. 601
- SIGHT VISIBILITY ZONE
- SEE SHEET C-3 FOR ABBREVIATIONS AND QUANTITIES

SLATER HANIFAN GROUP
a Westwood team
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

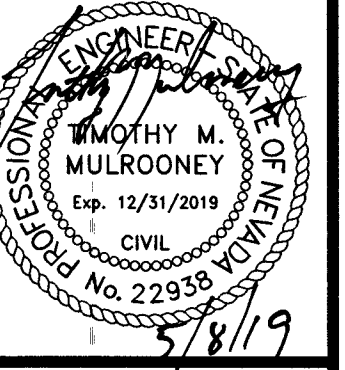
DATE	BY	APP	APP
NO.	DESCRIPTION	DATE	BY

LAS VEGAS, NV

KBHOME
BRISTLE VALE - UNIT 2
TRAFFIC PLAN IV

33
5/8/19
R 59E

DATE: 5/8/19
DRAFTER: OQ
DESIGNER: OQ
CHECKED: DSP
PROJECT NO.
KBH1804-000



T-4
SHEET 29 OF 29
L19-00527
107Y5102-2

