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 CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE'S WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY WESTERN TECHNOLOGIES INC., REPORT # 4126JD030, DATED OCTOBER 12, 2016, APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

WALL NOTES:

16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF +/- 0.9 METERS (+/- 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

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, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION.
2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC/ELECTRICAL FIELD OPERATIONS DIVISION AND THE CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623.L0.03 (E) OF THE SPECIFICATIONS.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL EMPTY CONDUIT SHALL HAVE PULL STRINGS INSTALLED PRIOR TO FINAL INSPECTION.
5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE OF EIGHTEEN INCHES (18") TO THE FACE OF STREET LIGHTING POLE ON ALL SIDES WHEN STREETLIGHT IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE ELECTRICAL SERVICES SECTION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
7. SERVICE POINT SHALL BE COORDINATED WITH NEVADA POWER COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.
8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
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 SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND OPERATIONAL COST OF SAID STREETLIGHTS PRIOR TO PROJECT COMPLETION. REFER TO THE PLAN FOR ANY NEW SERVICE REQUIREMENTS. THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHT/S AND/OR SERVICE/S INSTALLED UNDER THIS PLAN DESIGN WILL BE IN CONJUNCTION WITH THIS PROJECT COMPLETION. COORDINATE ALL MAINTENANCE AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TEFO) AT (702) 229-6331.

DEVIATION FROM STANDARDS

NONE

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

LVVWD PROJECT # 125105

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICAL SHALL BE GIVE TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 PM THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF THE UDACS SHALL SUPERCEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
9. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVVWD DISTRIBUTION SYSTEM.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES OR SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE LISTED ON THE LVVWD PRE-APPROVED MATERIALS AND MANUFACTURER'S LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.
13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDED THE PLACEMENT OF APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.

1ST APPROVED 10/19/17

APPROVED FOR CONSTRUCTION 1

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 125105 DATE: 5/16/18

SWPPP NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVED ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF LAS VEGAS AND 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 THE CITY OF LAS VEGAS AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION 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 INSPECTION MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

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

LAS VEGAS FIRE & RESCUE GENERAL NOTES FOR HYDRANTS AND ACCESS

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S – APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [IFC 105.7.12]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [IFC 3310, 3312]
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [IFC 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. Center loading is acceptable for the hydro tests with prior Fire Prevention approval. [IFC 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [IFC 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [IFC 507]
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [IFC 507.5.7.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [IFC 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS; [IFC C102]
    - RESIDENTIAL – 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
    - COMMERCIAL – 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 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. [IFC C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION [IFC C102.12]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AND APPROVED ROUTE. [IFC C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE [IFCC102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [IFC C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS CAN BE OUT OF SERVICE DUE TO A BREAK IN A WATER MAIN. [IFC C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [IFC 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FPR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [IFC 503.2.7, 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS.
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 12 FT 6 INS. [IFC 503.2.4]
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 WITH PARALLEL PARKING PERMITTED ON BOTH SIDES. NOT LESS THAN 32 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE PARKING IS PERMITTED ONLY ON ONE SIDE OF THE FIRE APPARATUS ACCESS ROAD. NOT LESS THAN 24 FT WIDE, FLOW-LINE TO FLOW-LINE, WHERE NO PARKING IS PERMITTED ON EITHER SIDE. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT.
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. THIS DISTANCE COULD BE INCREASED TO 250 FT IF THE BUILDING IS SPRINKLERED. [IFC 503.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 100 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. COMMERCIAL AND INDUSTRAL DEVELOPMENTS WHERE BUILDINGS EXCEED 2 STORIES OR 30 FEET IN HEIGHT, OR EXCEEDING 62,000 SQUARE FEET IN AREA. [IFC 503.1.2]
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LANES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. [IFC503.2.5]
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGHNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT (IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [IFC 503.3]
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. SAID SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE IFC 503.6 AND IFC APPENDIX M.

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOPS SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 229-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

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 SOILS REPORT
B. ENGINEERED FILL	0.5'+	+0.1' TO -0.1'	SEE SOILS REPORT

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.

7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

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 A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099.

CLARK COUNTY TRAFFIC NOTES

1. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HEREUNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
2. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY GROUND MOUNTED STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING COUNTY STREETS IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
3. ALL CONSTRUCTION SIGNING, BARRICADING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK -1986 AND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
4. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PERMANENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE COUNTY TRAFFIC MANAGER.
5. THE DEVELOPER SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL PERMANENT SIGNS SHOWN ON THE PLANS. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CLARK COUNTY AREA STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGNPOSTS SHALL BE INSTALLED IN ACCORDANCE WITH CLARK COUNTY AREA STANDARDS. ALL SIGNS SHALL USE CLASS VI SHEETING.
6. IF PROPOSED STREET LIGHT STANDARD IS FIELD LOCATED TO WITHIN FIVE (5) FEET OF ANY SIGN SHOWN HEREON TO BE MOUNTED ON A SIGN POST, THEN CHANGE SIGN MOUNTING TO ONE ON THE STREETLIGHT STANDARD.
7. PRIOR TO CONSTRUCTION, THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FORM THE CURRENT PLANNING DIVISION OF THE DEPARTMENT OF COMPREHENSIVE PLANNING.
8. ALL TRAFFIC SIGNAL POLE ASSEMBLIES, STEEL PEDESTALS FOR CABINETS, AND STREET LIGHT POLES SHALL BE GALVANIZED PER ASTM A. 123.
9. ALL STREET LIGHTING INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA, NEVADA, LATEST EDITION OF EACH EXCEPT AS NOTED ON THE STREET LIGHTING PLANS AND LED LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "QPL" FOR LED LUMINAIRES. QPL CAN BE FOUND ONLINE AT HTTP://WWW.CLARKCOUNTYNV.GOV/PUVLIC-WORKS/PAGES/DEFAULT.ASPX (1)
10. THE FOLLOWING CLARK COUNTY UNDERGROUND FACILITIES MAY BE LOCATED IN YOUR PROJECT AREA: STREET LIGHTING, TRAFFIC SIGNALS, AND FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION (F.A.S.T.) INTERCONNECT CABLE. CONTRACTOR SHALL CONTACT CLARK COUNTY TRAFFIC MANAGEMENT DIVISION, OPERATIONS UNIT AT 455-7511 FOR LOCATIONS AT LEAST 48 HOURS PRIOR TO WORKING IN THE AREA. CLARK COUNTY IS NOT A MEMBER OF "CALL BEFORE YOU DIG" (UNDERGROUND SERVICE ALERT), AND A CALL TO THAT ORGANIZATION DOES NOT RELIEVE YOU OF LIABILITY FOR CLARK COUNTY FACILITIES.
11. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER/CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED. TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO THE COUNTY TRAFFIC MANAGER AND TO F.A.S.T. ANY DAMAGE TO THIS CABLE IS DEEMED AN EMERGENCY BY F.A.S.T., CITY OF LAS VEGAS, CLARK COUNTY, AND NDOT AND MUST BE REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE. $2,500 PER DAY DAMAGES MAY BE ASSESSED AFTER 24 HOURS HAS ELAPSED FROM TIME OF BREAK OR DAMAGE.
12. ALL NEW OR REPLACEMENT TRAFFIC SIGNAL LOOPS SHALL BE INSTALLED USING CABLE-IN-DUCT WRING, SHALL HAVE INDEPENDENT LEAD-IN WIRES FOR EACH LOOP FROM THE CONTROLLER TO THE PULL BOX, AND EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.
13. TRAFFIC SIGNAL PEDESTRIAN HEADS SHALL BE L.E.D. TYPE.
14. ELECTRICAL POWER SERVICE POINT LOCATION (S) FOR STREET LIGHTING AND TRAFFIC SIGNALS MUST BE INDICATED ON THE PLANS. IF CONNECTING TO AN EXISTING CIRCUIT, INDICATE LOCATION OF EXISTING SERVICE POINT FOR EACH CIRCUIT.
15. WHEN STREETLIGHTS ARE CONNECTED TO AN EXISTING CIRCUIT, THE ENGINEER MUST CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF HANDLING THE ADDITIONAL CIRCUIT LOAD.
16. CLARK COUNTY RESERVES THE RIGHT TO REJECT STREET LIGHT AND TRAFFIC SIGNAL POLES AND ASSEMBLIES WHICH HAVE A "STRIPED" APPEARANCE.
17. TWO WEEKS PRIOR TO BEGINNING OF CONSTRUCTION, MODIFICATION, OR RELOCATION OF ANY TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO CLARK COUNTY TRAFFIC MANAGEMENT DIVISION OF THE DATE THAT WORK WILL BEGIN.
18. THREE (3) NORMAL WORKING DAYS PRIOR TO TURN-ON OR COMPLETION OF MODIFICATION(S) TO A TRAFFIC SIGNAL SYSTEM, WRITTEN NOTICE SHALL BE SUBMITTED TO THE CLARK COUNTY TRAFFIC MANAGEMENT DIVISION THAT WORK IS BEING COMPLETED AND THE PROPOSED DATE OF COMPLETION.

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW NOTES

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE, (702) 455-4610. THE PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK SHALL BE ON THE JOB SITE AT ALL TIMES.
2. EXACT LOCATION OF ALL SAW-CUT LINES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
3. CURB AND GUTTER WITH A GRADE OF LESS THAT 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
4. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF (1/2") INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).
5. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION EXCEPT FOR LUMINAIRES. REFER TO CLARK COUNTY PUBLIC WORKS QUALIFIED PRODUCTS LIST "QPL" FOR LED LUMINARES. QPL CAN BE FOUND ONLINE AT HTTP://WWW.CLARKCOUNTYNV.GOVPUBLIC-WORKS/PAGES/DEFAULT.ASPX (1)
6.
7. PRIVATE STREETS, CURB & GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS SHALL BE INSPECTED BY A CLARK COUNTY INSPECTOR.
8. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS SHALL BE DETERMINED IN THE FILED BY CLARK COUNTY PUBLIC WORKS INSPECTOR.
9. PROPER SIGNS, BARRIERS, BARRICADES AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS." TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND SHALL NOT BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF PUBLIC WORKS INSPECTOR @ (702)455-4610.
10. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
11. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10') OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATE SHALL NOT BE CONSTRUED AS A TRENCH. NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICH EVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.
12. A TEMPORARY PATCH SHALL BE IN PLACE AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC AND SHALL BE MAINTAINED BY THE PERMITEE. A PERMANENT PATCH SHALL BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.
13. COMPACTION TESTS ARE REQUIRED.

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

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

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

CLV#: 107V7168

CC#: PW17-41363-CMF
CLV#: 67712

No.	REVISIONS	DATE	BY
1	UPDATED NOTES PER CCPW COMMENTS	5-24-18	SR

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER - STATE OF NEVADA, CIVIL, No. 17879, EXP. 6-30-18, 4-17-18

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

NOTES

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

PROJ#:125105 AGR:116197 QS:125-19-SW

Plotted By: Zito, JaLynn Sheet Set: Kha Layout: C2 April 17, 2018 12:37:56pm W:\61153_LAURICH\DWG\IMPRDWGS\OFFSITE\01-61153-C1.dwg
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CONSTRUCTION QUANTITIES

NO	ITEM	UNIT	PUBLIC	PRIVATE
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216	LF	1,283	71
2	SAWCUT NEAT & MATCH EXISTING	LF	930	–
3	ASPHALT S/W 2" AC OVER 6" TYPE II	SF	173	–
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I	EA	9	–
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234	SF	5,754	–
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016	SY	3,839	–
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCPW HTE #17-41363	SY	3,731	–
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225	SF	3,422	–
9	CONSTRUCT 8' CONCRETE VALLEY GUTTER PER CCAUSD NO. 228 & 229	SF	1,008	–
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219	SF	2,120	–
11	DEMOLISH AND REMOVE EXISTING ASPHALT	SY	5,732	–
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4	SF	2,010	–
13	CONCRETE BARRIER PER CCAUSD NO. 237	EA	12	–
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL). CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED	–	–	–
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236	EA	2	–
16	CONSTRUCT 2' CONCRETE FLUME PER DETAIL 3 ON SHEET D2	EA	2	–
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219	LF	2,385	–

TRAFFIC QUANTITIES CONTINUED

NO	ITEM	UNIT	PUBLIC	PRIVATE
1	INSTALL TURN ARROW AND PAVEMENT MARKINGS PER CCAUSD #246 (RPM)	EA	13	–
2	INSTALL 24" WIDE STOP BAR AND/OR CROSSWALK MARKINGS PER CCAUSD #254	LF	84	–
3	INSTALL LANE DELINEATION WITH 24" CHEVRONS PER CCAUSD #245	LF	272	–
4	INSTALL 24"X30" R3-4 (NO U-TURN SIGN)	EA	1	–
5	INSTALL TYPE 4 LANE LINE	LF	277	–
6	INSTALL 24"X30" R2-1 (SPEED LIMIT SIGN)	EA	2	–
7	INSTALL 12"X18" R7-1 (NO PARKING SIGN)	EA	4	–
8	INSTALL FORCED LEFT MARKER OR RIGHT TURN STORAGE LANE MARKER PER CCAUSD #246.6	EA	6	–
9	INSTALL 30"X30" R3-7R (RIGHT TURN ONLY)	EA	2	–
10	INSTALL 24"X36" R3-5zP (BUS EXEMPT SIGN)	EA	2	–
11	NOT USED	–	–	–
12	INSTALL BICYCLE LANE APPROACH TO EXCLUSIVE RIGHT TURN LANE PER CCAUSD #246.1	EA	1	–
13	INSTALL LED FIXTURE CA22-LE-160 LA-AW-UMIV-BLP PER TOWN CENTER STDS. POLE AND FOUNDATION PER CCAUSD #314, #320 & #321	EA	7	–
14	INSTALL 1-1/4" PVC STREET LIGHT CONDUIT AND WIRE	LF	1,256	–
15	INSTALL R4-4 (BEGIN RIGHT TURN LANE YIELD TO BIKERS)	EA	1	–
16	INSTALL R3-17 (RIGHT TURN BIKERS ONLY)	EA	1	–
17	INSTALL R4-7 & R3-4 SIGNS	EA	1	–
18	NOT USED	EA	–	–
19	INSTALL 6" SOLID WHITE LINE (TAPE OR PAINT)	LF	794	–
20	INSTALL BICYCLE LANE DELINEATION PER CCAUSD #244.9	EA	10	–
21	INSTALL MEDIAN NOSE MARKINGS PER CCAUSD #248 & K-71 FLEXIBLE MARKER POST	EA	7	–
22	INSTALL FLASHING YELLOW ARROW U-TURN SIGNAL WITH U-TURN YIELD SIGN	EA	1	–
23	OBLITERATE EXISTING STRIPING	LF	1,074	–
24	INSTALL 15' MAST ARM 250W STREETLIGHT AND FOUNDATION PER CCAUSD #316, #320, AND #321	EA	1	–
25	INSTALL 4' F.A.S.T. INTERCONNECT CONDUIT CONTAINING (1) #8 BARE WIRE	LF	1231	–
26	INSTALL P-30 PULL BOX PER CCAUSD #326	EA	2	–
27	INSTALL R6-1R (ONE WAY)	EA	1	–
28	INSTALL R3-16A (BIKE LANE ENDS)	EA	1	–

WATER CONSTRUCTION QUANTITIES

NO	ITEM	UNIT	PUBLIC	PRIVATE
1	WET TAP EX. 10" PVC WATER WITH 10"x 10" TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS SECTION 2.24.01A, EXCAVATE PER UDACS PLATE 17, 19 & 34.	EA	2	–
2	INSTALL 10" PVC WL – C900, CLASS 150	LF	46	–
3	STUB & CAP – FOR FUTURE CONTINUATION	EA	3	–
4	INSTALL CAP & 2" MANUAL BLOW OFF ASSEMBLY PER UDACS PLATE 36	EA	3	–
5	INSTALL FIRE HYDRANT PER UDACS PLATE 40	EA	1	–
6	INSTALL 10" x 6" TEE W/ 6" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39	EA	1	–
7	INSTALL 6" PVC WL – C900, CLASS 150	LF	14	–
8	RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1	EA	1	–
9	ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39	EA	6	–
10	INSTALL 6" RESTRAINED JOINT (RJ) DIP WL – CLASS 350	LF	15	–
11	ADJUST TO FINAL GRADE, 2" BLOW OFF PER UDACS PLATE 36	EA	1	–

QUANTITIES NOTE

QUANTITIES SHOWN ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN ESTIMATE FOR BIDDING AND SHALL BID A COMPLETE JOB. CONTRACTOR SHALL ADVISE OWNER AND ENGINEER OF ANY APPARENT DISCREPANCIES IN ESTIMATE.

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

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

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

1ST APPROVED 10/19/17

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER 125105 DATE: 5/16/18
APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

CLV#: 107V7168

CC#: PW17-41363-CMF
CLV#: 67712

No.	REVISIONS	DATE	BY
1	UPDATED NOTES & QUANTITIES	5-23-18	SB

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER STATE OF NEVADA TRACY WOLF No. 17819 EXPIRES 6/30 CIVIL

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

QUANTITIES

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

3 OF 17 SHEETS
C3

PROJ#:125105 AGR:116197 QS:125-19-SW

Plotted By:Zito, JaLynn Sheet Set:Kha Layout:C3 April 17, 2018 12:38:03pm W:\61153_LAURICH\DWG\MPRDWGS\OFFSITE\01-61153-C1.dwg
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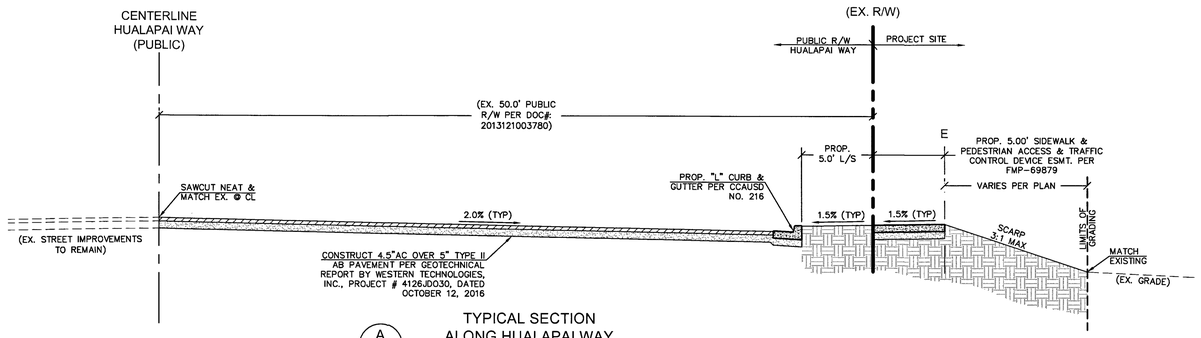
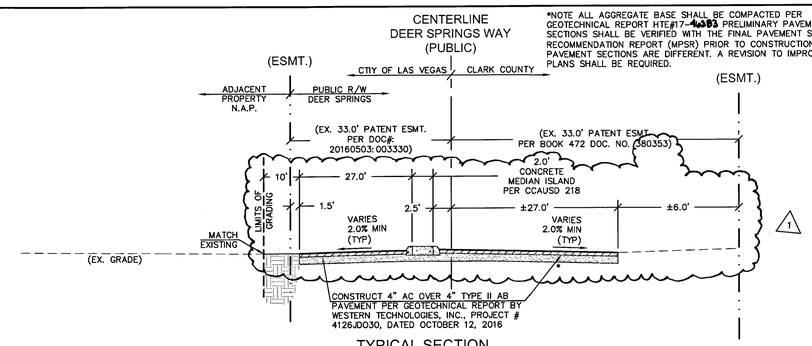
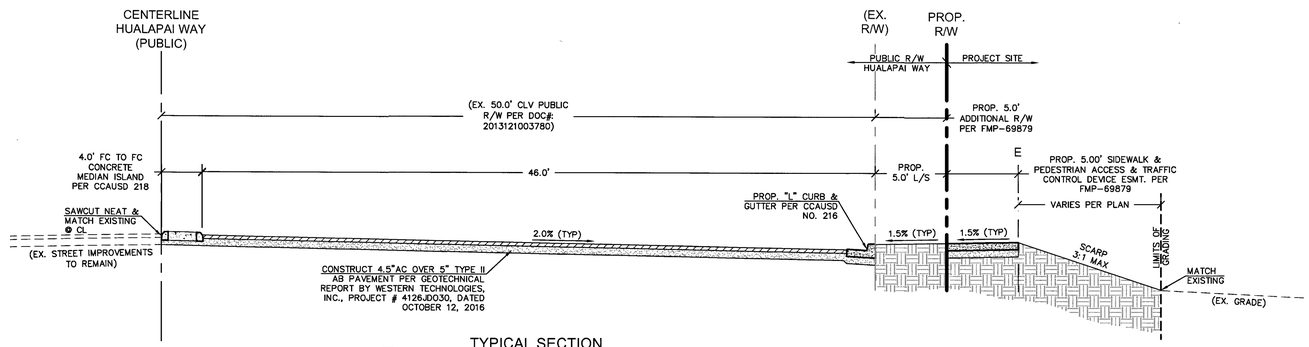


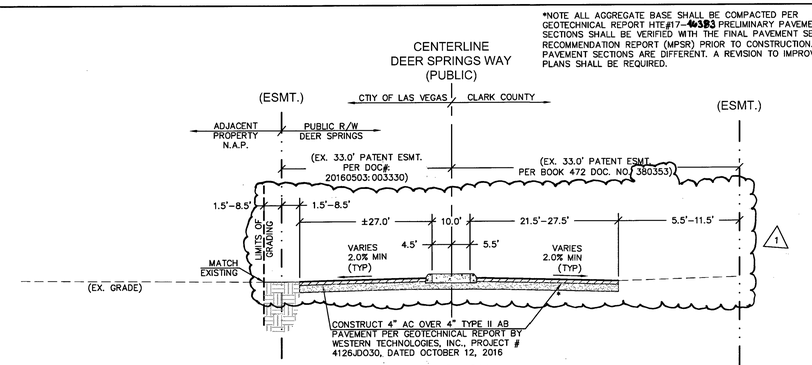
A / D1 TYPICAL SECTION ALONG HUALAPAI WAY
N.T.S.



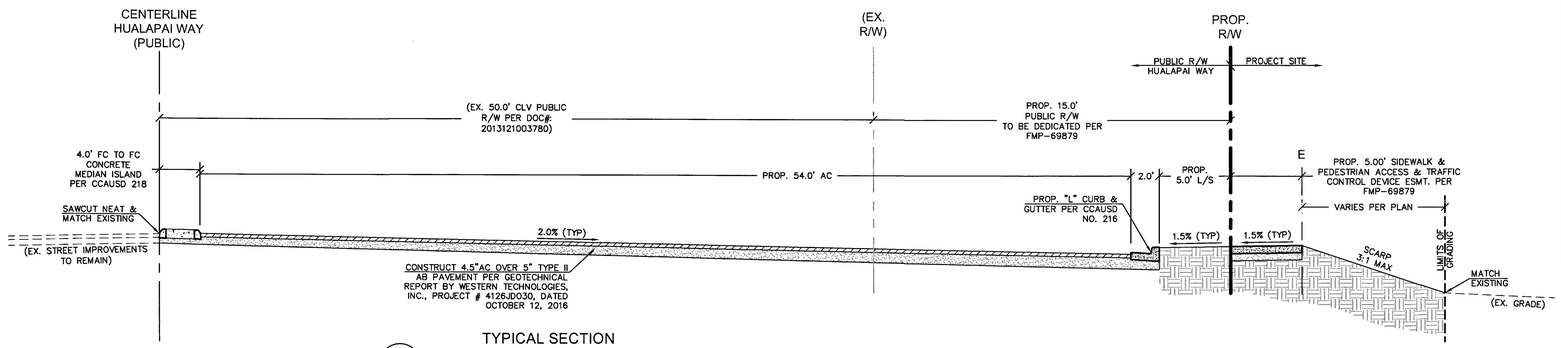
E2 / D1 TYPICAL SECTION ALONG DEER SPRINGS WAY
N.T.S.



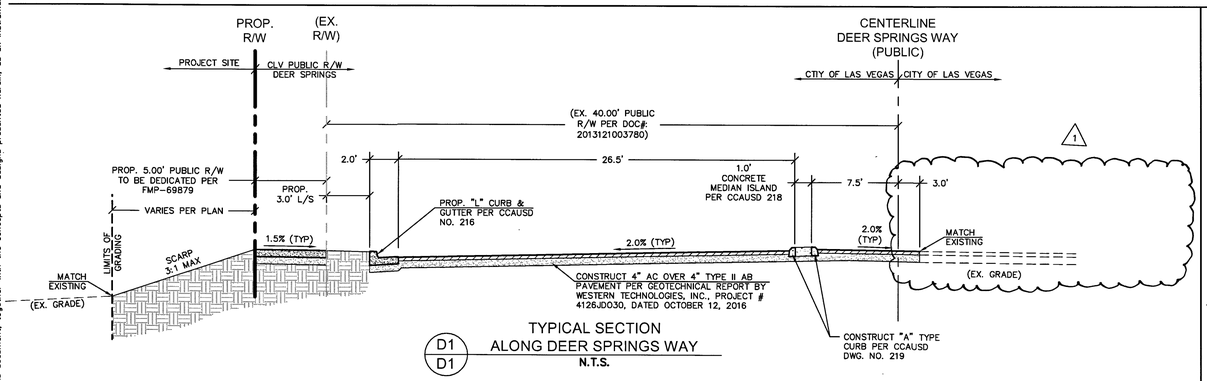
B / D1 TYPICAL SECTION ALONG HUALAPAI WAY
N.T.S.



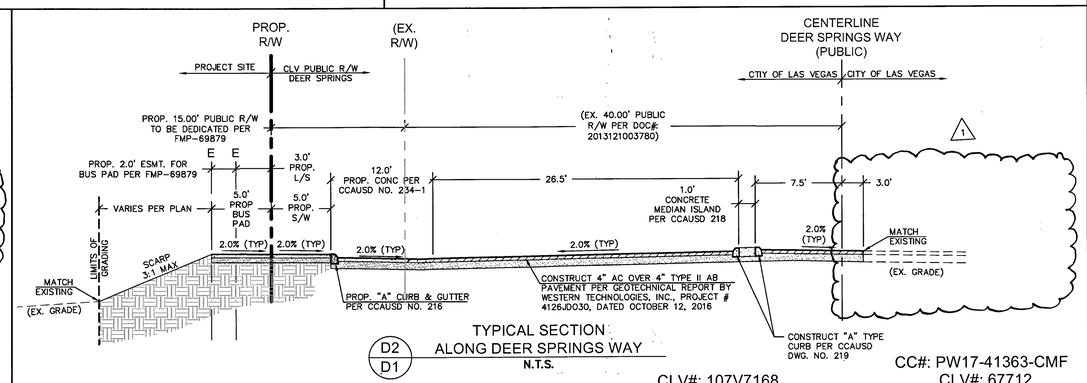
F / D1 TYPICAL SECTION ALONG DEER SPRINGS WAY
N.T.S.



C / D1 TYPICAL SECTION ALONG HUALAPAI WAY
N.T.S.



D1 / D1 TYPICAL SECTION ALONG DEER SPRINGS WAY
N.T.S.



D2 / D1 TYPICAL SECTION ALONG DEER SPRINGS WAY
N.T.S.

CC#: PW17-41363-CMF
CLV#: 107V7168

No.	REVISIONS	DATE	BY
1	UPDATED SECTION D1, D2, E2 & F, UPDATED PATENT ESMT DOC. NO. PER CCPW CMTS	5-21-19	SB

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STATE OF NEVADA PROFESSIONAL ENGINEER JESSE J. WOLF No. 17519 EXP. 12/31/19

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

TYPICAL SECTIONS

CALL BEFORE YOU OVERHEAD 1-702-227-2929
FAST Call before you UnderGround 1-702-432-5300 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION
Call before you Dig AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY. CALL 811 OR 1-800-227-2600

COMMERCIAL SUBDIVISION @ SEC DEER SPRINGS & HUALAPAI

Plotted By:Zito, JoLynn Sheet Set:Kha Layout:D1 April 17, 2018 12:38:10pm W:\61153_LAURICH\DWG\IMPRDWGS\OFFSITE\02-61153-D1.dwg
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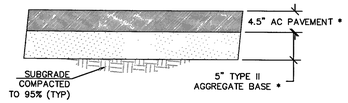
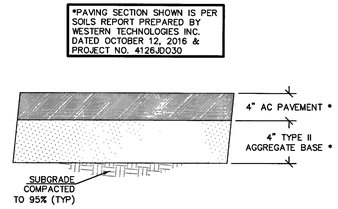
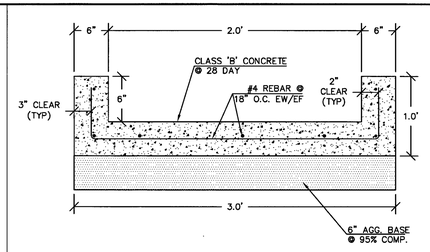


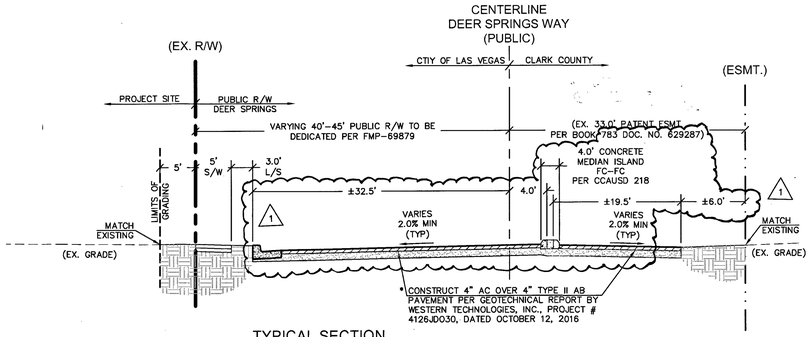
1 / D2 HUALAPAI PAVEMENT SECTION
(NOT TO SCALE)



2 / D2 DEER SPRINGS PAVEMENT SECTION
(NOT TO SCALE)

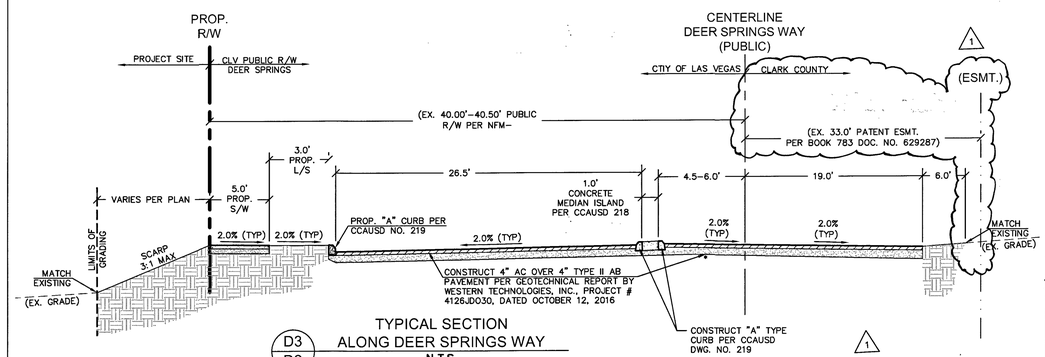


3 / D2 2' CONCRETE FLUME
(NOT TO SCALE)



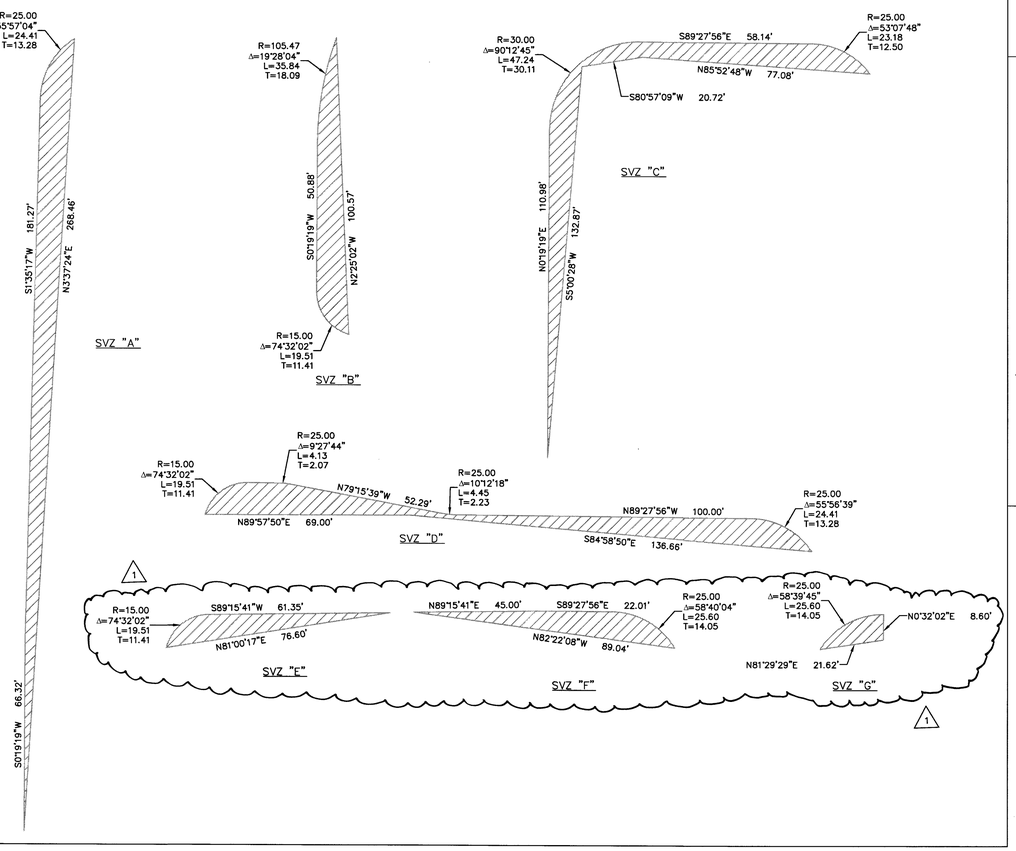
E1 / D2 TYPICAL SECTION ALONG DEER SPRINGS WAY
N.T.S.

*NOTE ALL AGGREGATE BASE SHALL BE COMPACTED PER GEOTECHNICAL REPORT (HTE#17-40393). PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTIONS RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO IMPROVEMENT PLANS SHALL BE REQUIRED.



D3 / D2 TYPICAL SECTION ALONG DEER SPRINGS WAY
N.T.S.

*NOTE ALL AGGREGATE BASE SHALL BE COMPACTED PER GEOTECHNICAL REPORT (HTE#17-40393). PRELIMINARY PAVEMENT SECTIONS SHALL BE VERIFIED WITH THE FINAL PAVEMENT SECTIONS RECOMMENDATION REPORT (MPSR) PRIOR TO CONSTRUCTION. IF FINAL PAVEMENT SECTIONS ARE DIFFERENT, A REVISION TO IMPROVEMENT PLANS SHALL BE REQUIRED.



- / D2 SIGHT VISIBILITY ZONE DETAIL
(NOT TO SCALE)

No.	REVISIONS	DATE	BY
1	UPDATED SECTION E1, REVISED SIZE'S & ESMTS PER CCPW CMTS	5-24-18	SB

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PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER STATE OF NEVADA No. 17979 — 4/17/18

KHA PROJECT	61153.52
DATE	10/6/17
SCALE	AS SHOWN
DESIGNED BY	JZ
DRAWN BY	JZ
CHECKED BY	TW

TYPICAL DETAILS

COMMERCIAL SUBDIVISION @ SEC DEER SPRINGS & HUALAPAI

CLV#: 107V7168

CC#: PW17-41363-CMF
CLV#: 67712

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

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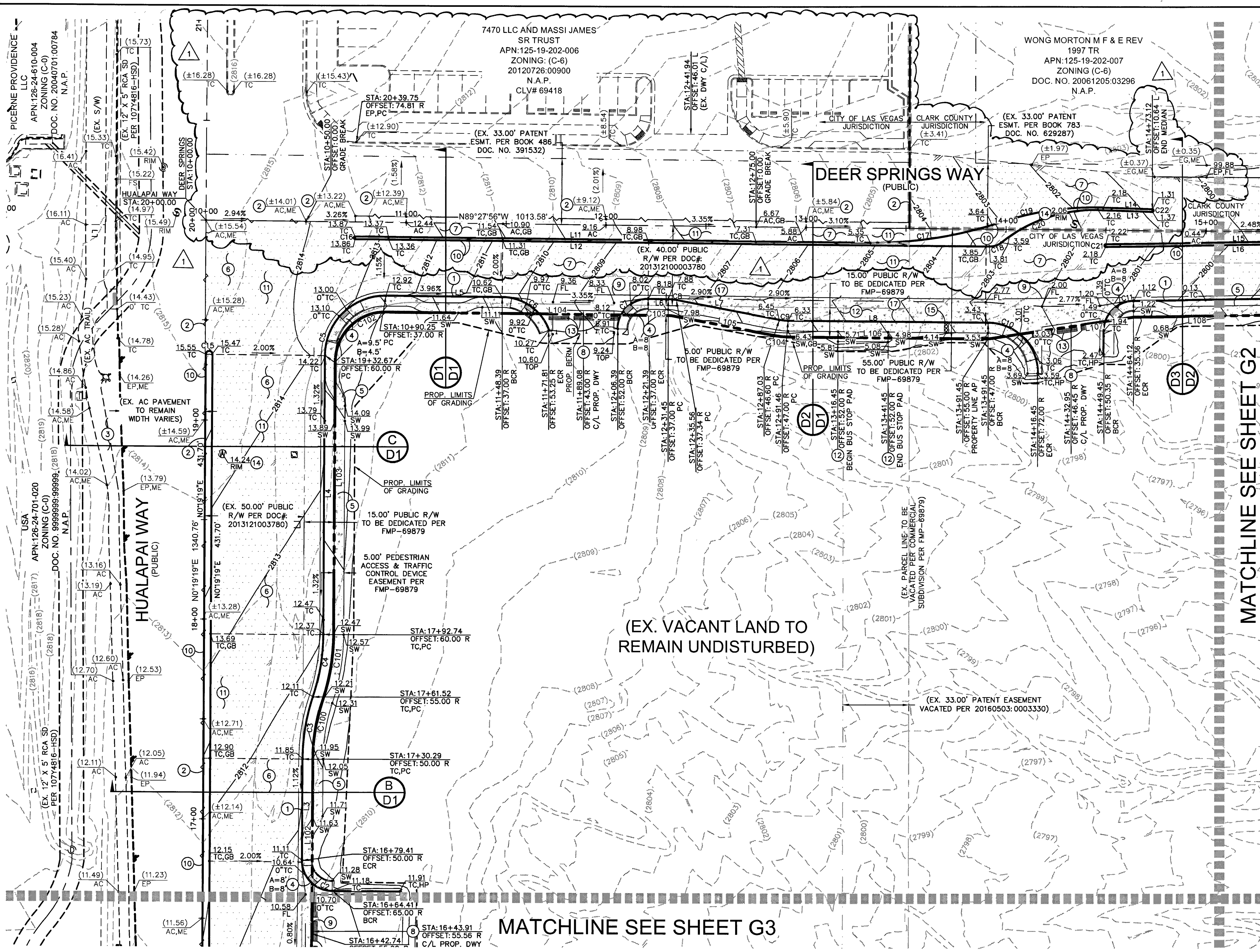

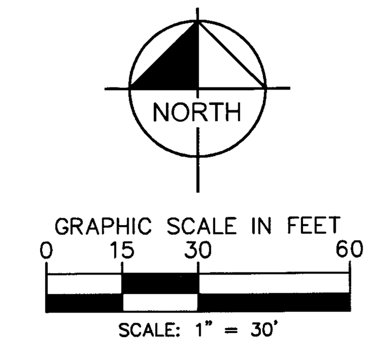

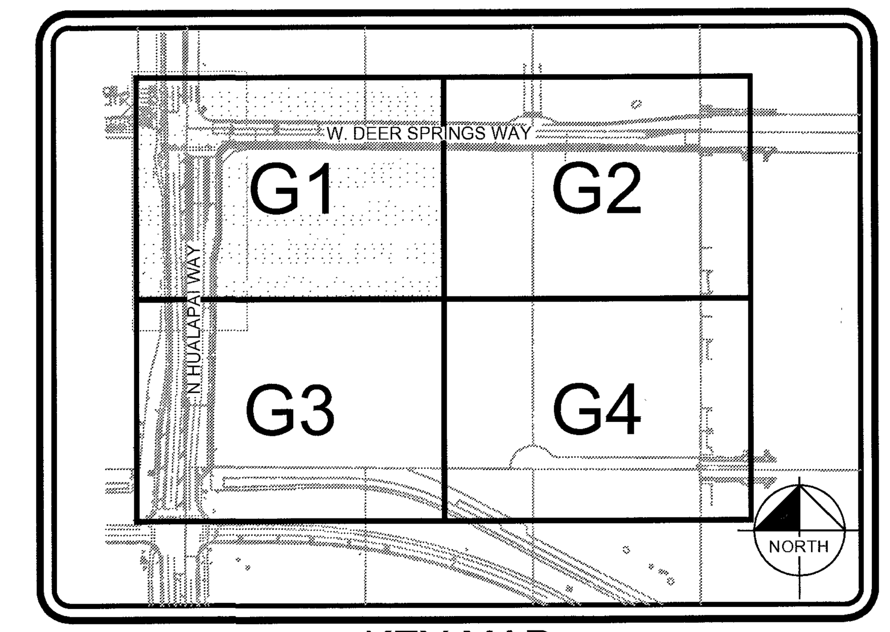

KEY MAP

N.T.S.

BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	10°12'18"	1.52'
C104	33.00'	5.88'	10°12'18"	2.95'

BOUNDARY LINE TABLE		
LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E
L101	225.06'	S01°35'42"W
L102	87.55'	N81°27'05"E
L103	136.93	N00°19'19"E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
L107	73.77'	N81°27'05"E
L108	150.99'	N89°15'41"E
L109	67.74'	N89°27'56"W

OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING
L1	88.23'	N0°19'19"E
L2	181.28'	N1°35'17"E
L3	50.88'	N0°19'19"E
L4	139.93'	N0°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	22.24'	N89°15'41"E
L11	257.69'	N89°27'56"W
L12	317.18'	N89°27'56"W
L13	24.62'	N88°11'35"W
L14	27.19'	N88°11'35"W
L15	101.41'	N89°15'41"E
L16	102.18'	N89°15'41"E
L17	68.23'	N89°27'56"W
L18	65.55'	N89°27'56"W
L19	277.39'	S89°27'56"E
L20	148.50'	N89°27'56"W
L21	49.30'	N89°27'56"W
L22	22.01'	N89°27'56"W
L23	3.00'	N00°44'19"W
L24	3.00'	N00°44'19"W

OFF-SITE CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
C9	25.00'	4.45'	10°12'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	25.00'	39.27'	90°00'00"	25.00'
C13	25.00'	39.27'	90°00'00"	25.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.28'	30°16'24"	2.71'
C24	10.00'	4.81'	27°32'10"	2.45'
C25	74.00'	40.74'	31°32'47"	20.90'
C26	74.00'	37.21'	28°48'33"	19.01'
C27	1.50'	4.71'	180°00'00"	INFINITY
C28	1.00'	3.14'	180°00'00"	INFINITY
C29	200.00'	40.07'	11°28'42"	20.10'
C30	200.00'	40.07'	11°28'42"	20.10'
C31	5.00'	15.71'	180°00'00"	INFINITY

	CONSTRUCTION NOTES
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCPW HTE# 17-46383
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8' CONCRETE VALLEY GUTTER PER CCAUSD NO. 228 & 229
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL), CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2' CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING BY 4/26/18

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

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

STORMWATER MANAGEMENT NOTES:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS 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 THE CITY OF LAS VEGAS BUILDING ADMINISTRATIVE CODE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.

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

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

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, CLV DS4809 & CLARK COUNTY HTE#16-48274 & 17-28627.

TREASEA WOLF, P.E. No. 17879 — DATE 4-17-18

NOTES

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

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

SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS AID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT. AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

CLARK COUNTY CONCURRENCE

NO WORK TO BE PERFORMED IN CLARK COUNTY RIGHT-OF-WAY UNTIL CLARK COUNTY APPROVAL IS OBTAINED

LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17sft. (NAVD 88)

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

ENGINEER'S NOTES:

1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126JD030.

2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.

3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).

4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION

5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.

6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.

7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.

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

CC#: PW17-41363-CMF

CLV#: 67712

CLV#: 107V7168

No.	REVISIONS	DATE	BY
1	UPDATED NOTE 9, SVZ NOTE & UPDATED MEDIAN PER CC CMTS, UPDATED LINE & CURVE TABLE & ADDED TYING INTO NORTH ADJACENT PROPERTY IMPROVEMENTS	5-24-18	SB

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER — STATE OF NEVADA — TREASEA WOLF — CIVIL — EXP.6-30-18 — No. 17879 — 4-17-18

KHA PROJECT 61153.52 | DATE 10/6/17 | SCALE AS SHOWN | DESIGNED BY JZ | DRAWN BY JZ | CHECKED BY TW

PRECISE GRADING PLAN SHEET 1 OF 4

COMMERCIAL SUBDIVISION @ SEC DEER SPRINGS & HUALAPAI

Plotted By: Zito, JaLynn Sheet Set: Kha Layout: G1 April 17, 2018 12:38:50pm W:\61153_LAURICH\DWG\IMPRDWGS\OFFSITE\04-61153-G1.dwg
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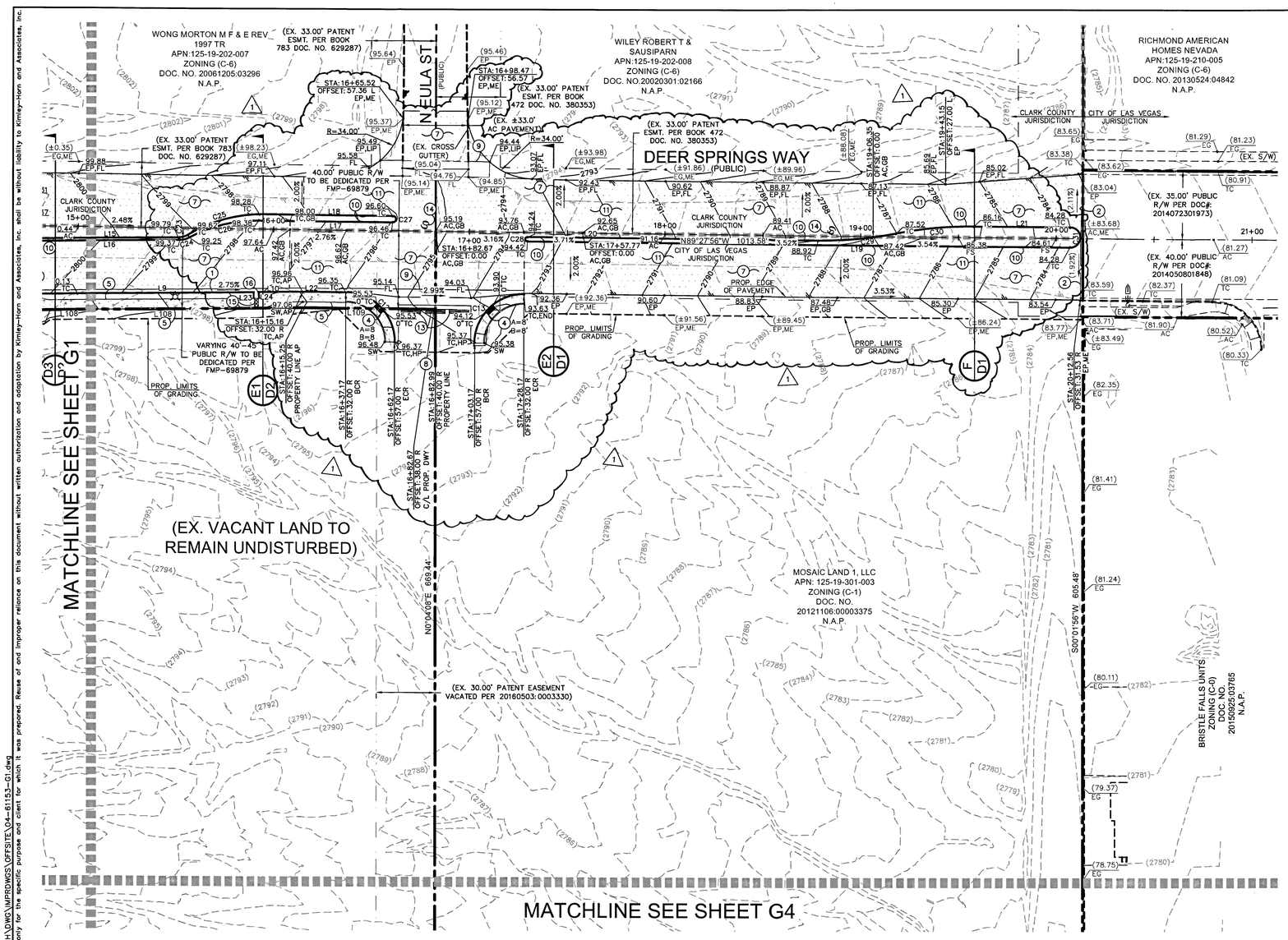

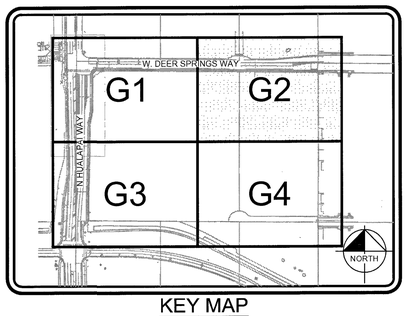

KEY MAP
N.T.S.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60
SCALE: 1" = 30'

BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	10°12'18"	1.52'
C104	33.00'	5.88'	10°12'18"	2.95'

BOUNDARY LINE TABLE		
LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E
L101	225.06'	S01°35'42"W
L102	87.55'	N81°27'05"E
L103	136.93	N00°19'19"E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
L107	73.77'	N81°27'05"E
L108	150.99'	N89°15'41"E
L109	67.74'	N89°27'56"W

OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING
L1	88.23'	N0°19'19"E
L2	181.28'	N1°35'17"E
L3	50.88'	N0°19'19"E
L4	139.93'	N0°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	22.24'	N89°15'41"E
L11	257.69'	N89°27'56"W
L12	317.18'	N89°27'56"W
L13	24.62'	N88°11'35"W
L14	27.19'	N88°11'35"W
L15	101.41'	N89°15'41"E
L16	102.18'	N89°15'41"E
L17	68.23'	N89°27'56"W
L18	65.55'	N89°27'56"W
L19	277.39'	S89°27'56"E
L20	148.50'	N89°27'56"W
L21	49.30'	N89°27'56"W
L22	22.01'	N89°27'56"W
L23	3.00'	N00°44'19"W
L24	3.00'	N00°44'19"W

OFF-SITE CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
C9	25.00'	4.45'	10°12'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.62'
C12	25.00'	39.27'	90°00'00"	25.00'
C13	25.00'	39.27'	90°00'00"	25.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.28'	30°16'24"	2.71'
C24	10.00'	4.81'	27°32'10"	2.45'
C25	74.00'	40.74'	31°32'47"	20.90'
C26	74.00'	37.21'	28°48'33"	19.01'
C27	1.50'	4.71'	180°00'00"	INFINITY
C28	1.00'	3.14'	180°00'00"	INFINITY
C29	200.00'	40.07'	11°28'42"	20.10'
C30	200.00'	40.07'	11°28'42"	20.10'
C31	5.00'	15.71'	180°00'00"	INFINITY

CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCPW HTE# 17-40383
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8' CONCRETE VALLEY GUTTER PER CCAUSD NO. 228 & 229
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL), CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2' CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING 4/26/18

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

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

STORMWATER MANAGEMENT NOTES:

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS 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 THE CITY OF LAS VEGAS BUILDING ADMINISTRATIVE CODE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.

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

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

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, CLV DS4809 & CLARK COUNTY HTE#16-48274 & HTE#17-28627.

TREASEA WOLF, P.E. No. 17879 — DATE 4-17-18

CC#: PW17-41363-CMF
CLV#: 107V7168
CLV#: 67712

NOTES

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

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

SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS AID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT. AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

CLARK COUNTY CONCURRENCE

NO WORK TO BE PERFORMED IN CLARK COUNTY RIGHT-OF-WAY UNTIL CLARK COUNTY APPROVAL IS OBTAINED

LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17sft. (NAVD 88)

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

ENGINEER'S NOTES:

1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126JD030.

2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.

3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).

4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION

5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.

6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.

7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.

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

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

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

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

No.	REVISIONS	DATE	BY
1	UPDATED DRIVEWAY LOCATION, MEDIANS, NOTE 9, SVZ NOTE, LINE & CURVE TABLE	5-29-18	SB

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

STATE OF NEVADA — TREASEA L. WOLF — No. 17879 — PROFESSIONAL ENGINEER — 4-17-18

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

PRECISE GRADING PLAN
SHEET 2 OF 4

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

7 OF 17 SHEETS
G2

Plotted By:Zito, JoLynn Sheet Set:Kha Layout:G2 April 17, 2018 12:39:07pm W:\61153_LAUR\CH\DWG\MPROWGS\OFFSITE\04-61153-G1.dwg
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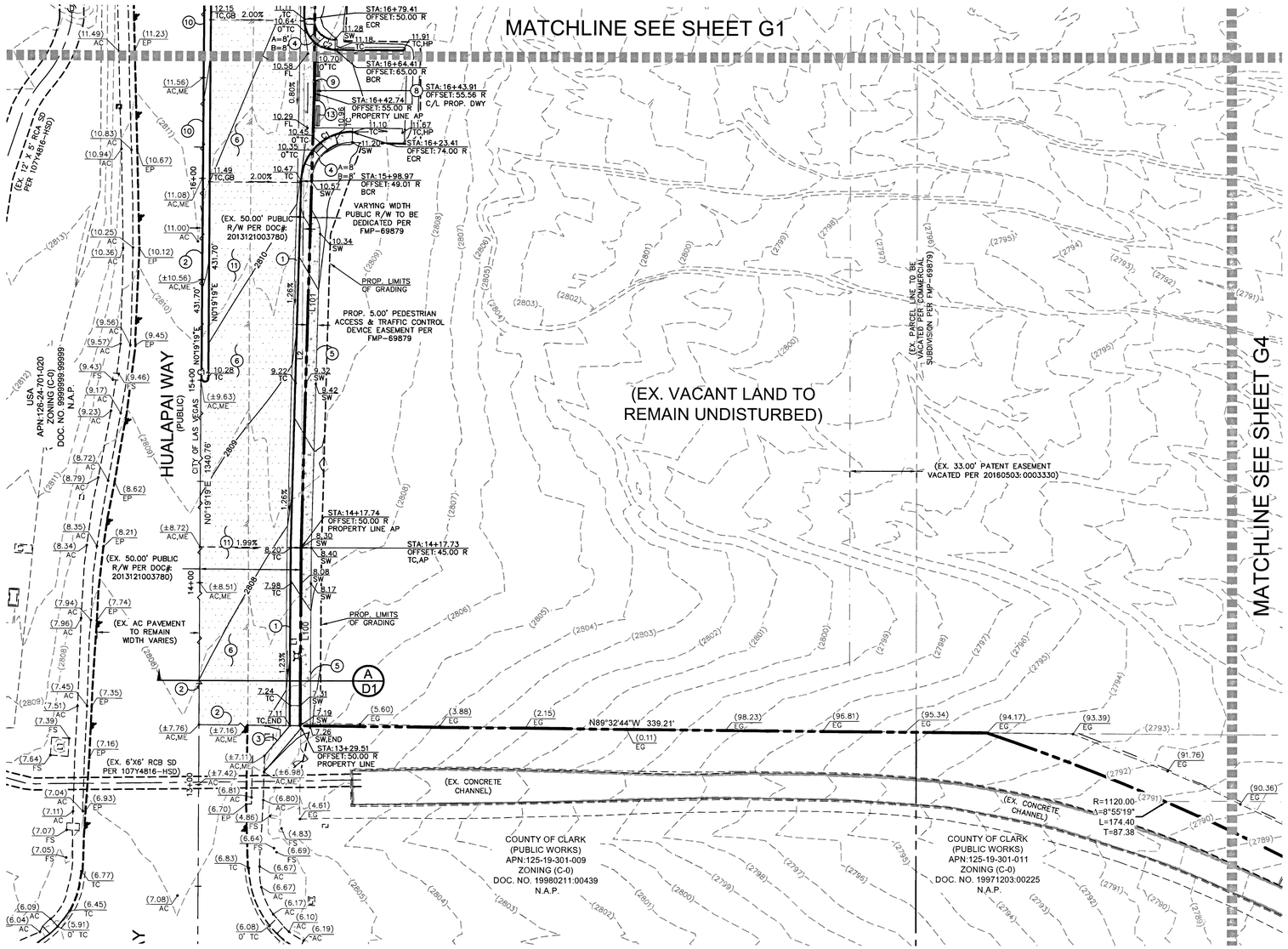

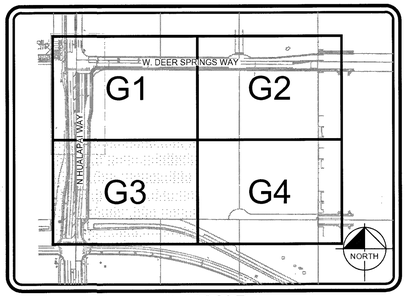

KEY MAP

N.T.S.

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1

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1

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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 THE CITY OF LAS VEGAS BUILDING ADMINISTRATIVE CODE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.

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

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TREASEA WOLF, P.E. No. 17879 — DATE 4-17-18

NOTES

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SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

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CLV#: 107V7168

CC#: PW17-41363-CMF
CLV#: 67712

No.	TABLE	REVISIONS	DATE	BY
1	UPDATED NOTE 9, SYZ NOTE & LINE & CRVE		5-24-18	SB

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

STATE OF NEVADA — TREASEA WOLF — No. 17879 — PROFESSIONAL ENGINEER — CIVIL — EXPIRES 6/30/18 — 4-17-18

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

PRECISE GRADING PLAN
SHEET 3 OF 4

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

Plotted By:Zito, JoLynn Sheet Set:Kha Layout:G3 April 17, 2018 12:39:25pm W:\61153_LAUR(CH\DWG\MPROWS\OFFSITE\04-61153-G1.dwg
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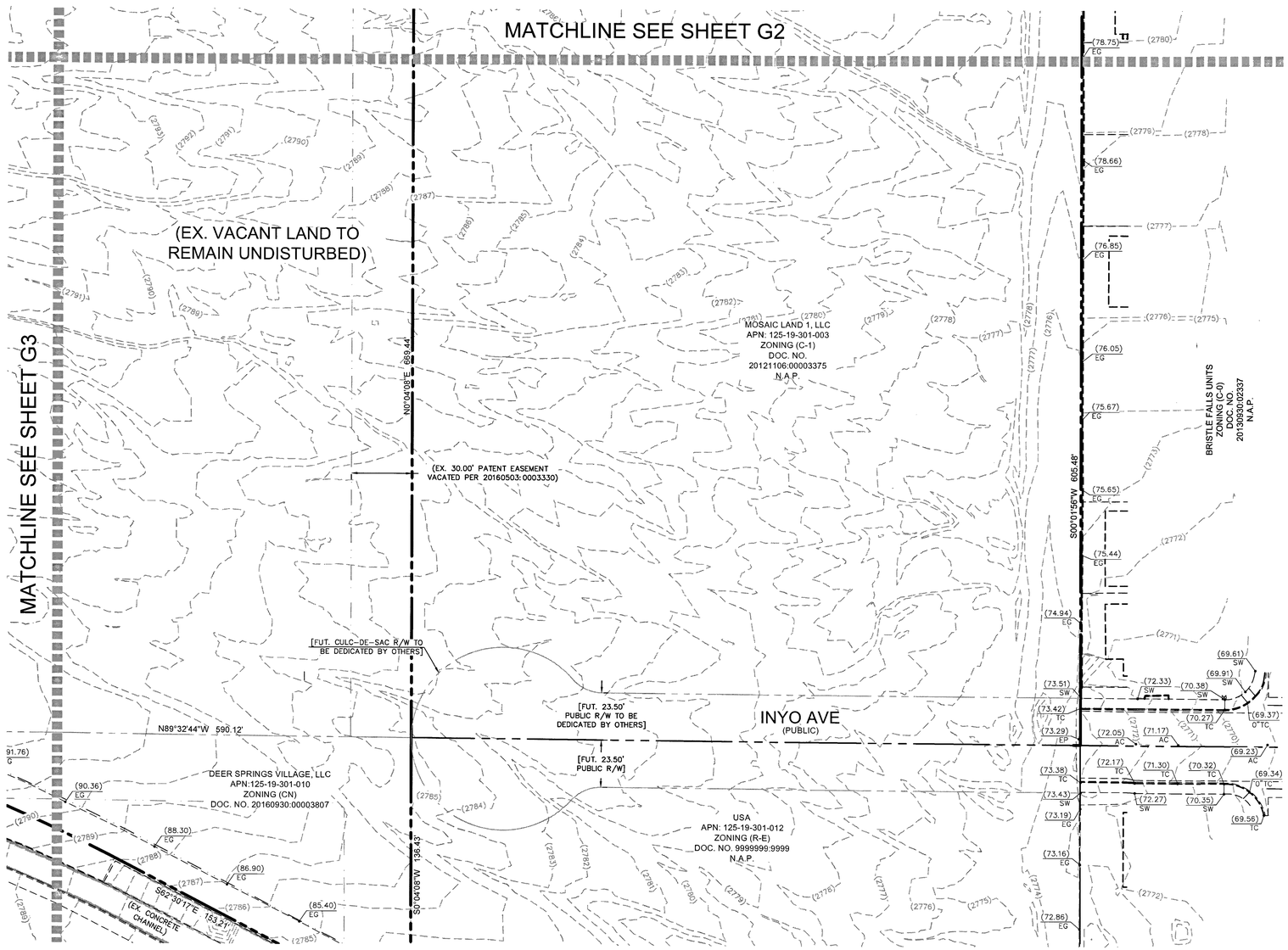

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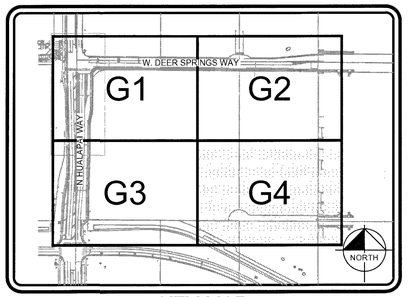
SCALE: 1" = 30'



KEY MAP
N.T.S.

BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	10°12'18"	1.52'
C104	33.00'	5.88'	10°12'18"	2.95'

BOUNDARY LINE TABLE		
LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E
L101	225.06'	S01°35'42"W
L102	87.55'	N81°27'05"E
L103	136.93	N00°19'19"E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
L107	73.77'	N81°27'05"E
L108	150.99'	N89°15'41"E
L109	67.74'	N89°27'56"W

OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING
L1	88.23'	N0°19'19"E
L2	181.28'	N1°35'17"E
L3	50.88'	N0°19'19"E
L4	139.93'	N0°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	22.24'	N89°15'41"E
L11	257.69'	N89°27'56"W
L12	317.18'	N89°27'56"W
L13	24.62'	N88°11'35"W
L14	27.19'	N88°11'35"W
L15	101.41'	N89°15'41"E
L16	102.18'	N89°15'41"E
L17	68.23'	N89°27'56"W
L18	65.55'	N89°27'56"W
L19	277.39'	S89°27'56"E
L20	148.50'	N89°27'56"W
L21	49.30'	N89°27'56"W
L22	22.01'	N89°27'56"W
L23	3.00'	N00°44'19"W
L24	3.00'	N00°44'19"W

OFF-SITE CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
C9	25.00'	4.45'	10°12'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	25.00'	39.27'	90°00'00"	25.00'
C13	25.00'	39.27'	90°00'00"	25.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.28'	30°16'24"	2.71'
C24	10.00'	4.81'	27°32'10"	2.45'
C25	74.00'	40.74'	31°32'47"	20.90'
C26	74.00'	37.21'	28°48'33"	19.01'
C27	1.50'	4.71'	180°00'00"	INFINITY
C28	1.00'	3.14'	180°00'00"	INFINITY
C29	200.00'	40.07'	11°28'42"	20.10'
C30	200.00'	40.07'	11°28'42"	20.10'
C31	5.00'	15.71'	180°00'00"	INFINITY

CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCPW HTE# 17-46383
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8' CONCRETE VALLEY GUTTER PER CCAUSD NO. 228 & 229
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL), CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2' CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

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TREASEA WOLF, P.E. No. 17879 — DATE 4.17.18

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CLV#: 107V7168
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1	UPDATED NOTE 9, SVZ NOTE, LINE & CURVE TABLE	5-24-18	SB

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
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STATE OF NEVADA — TREASEA WOLF — No. 17879 — PROFESSIONAL ENGINEER — CIVIL — 4-17-18

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

PRECISE GRADING PLAN
SHEET 4 OF 4

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

9 OF 17 SHEETS
G4

Plotted By:Zito, Jaylynn Sheet Set:Kho Layout:G4 April 17, 2018 12:39:41pm W:\61153_LAURICH\DWG\MPROWGS\OFFSITE\04-61153-G1.dwg
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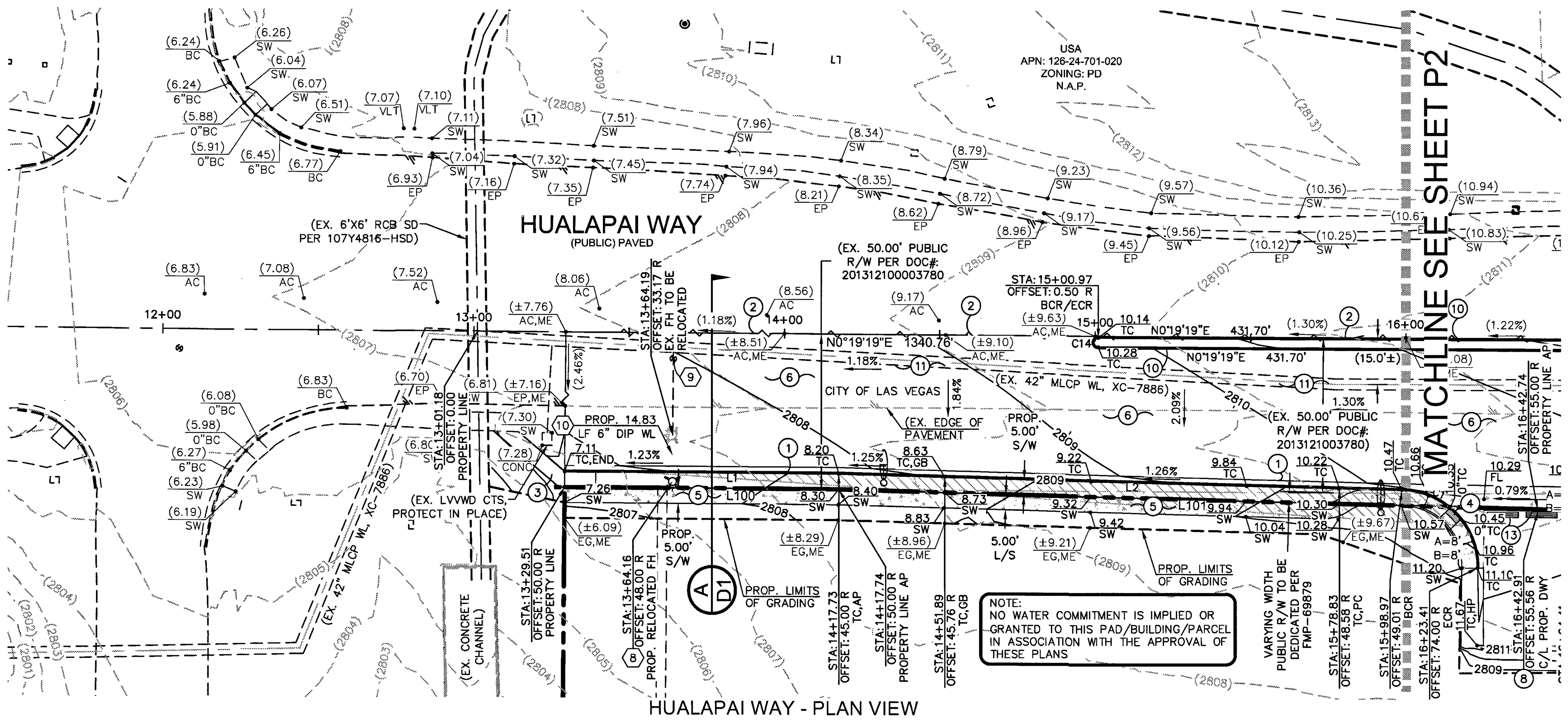
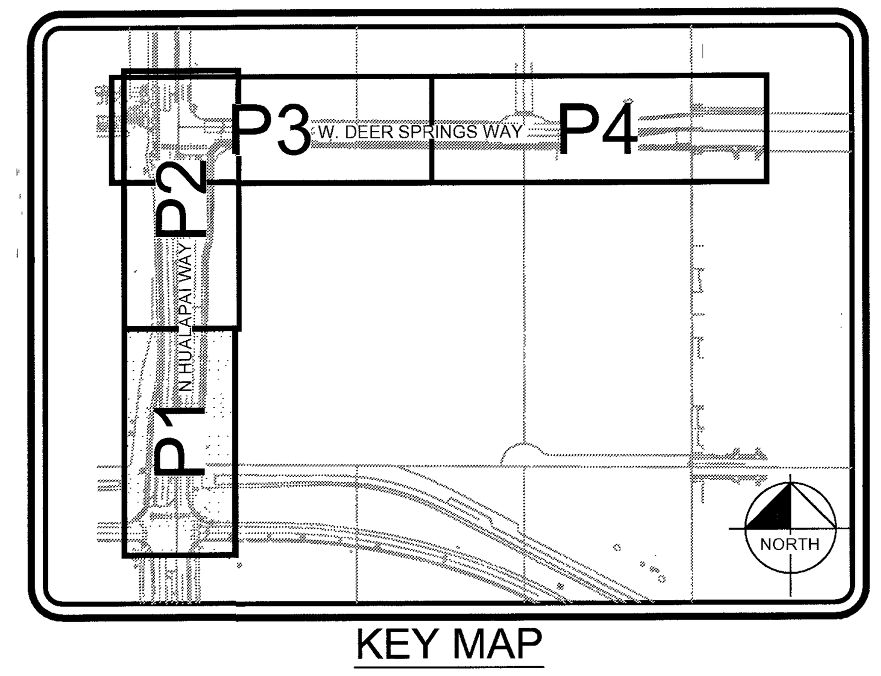


HUALAPAI WAY - PLAN VIEW
STA: 12+00 TO STA: 16+00
SCALE: 1"=30'

GRAPHIC SCALE IN FEET
0 15 30 60
SCALE: 1" = 30'



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CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER)

THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.

LVVWD NOTE:

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. 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 APPURTENANCES ARE AVAILABLE.

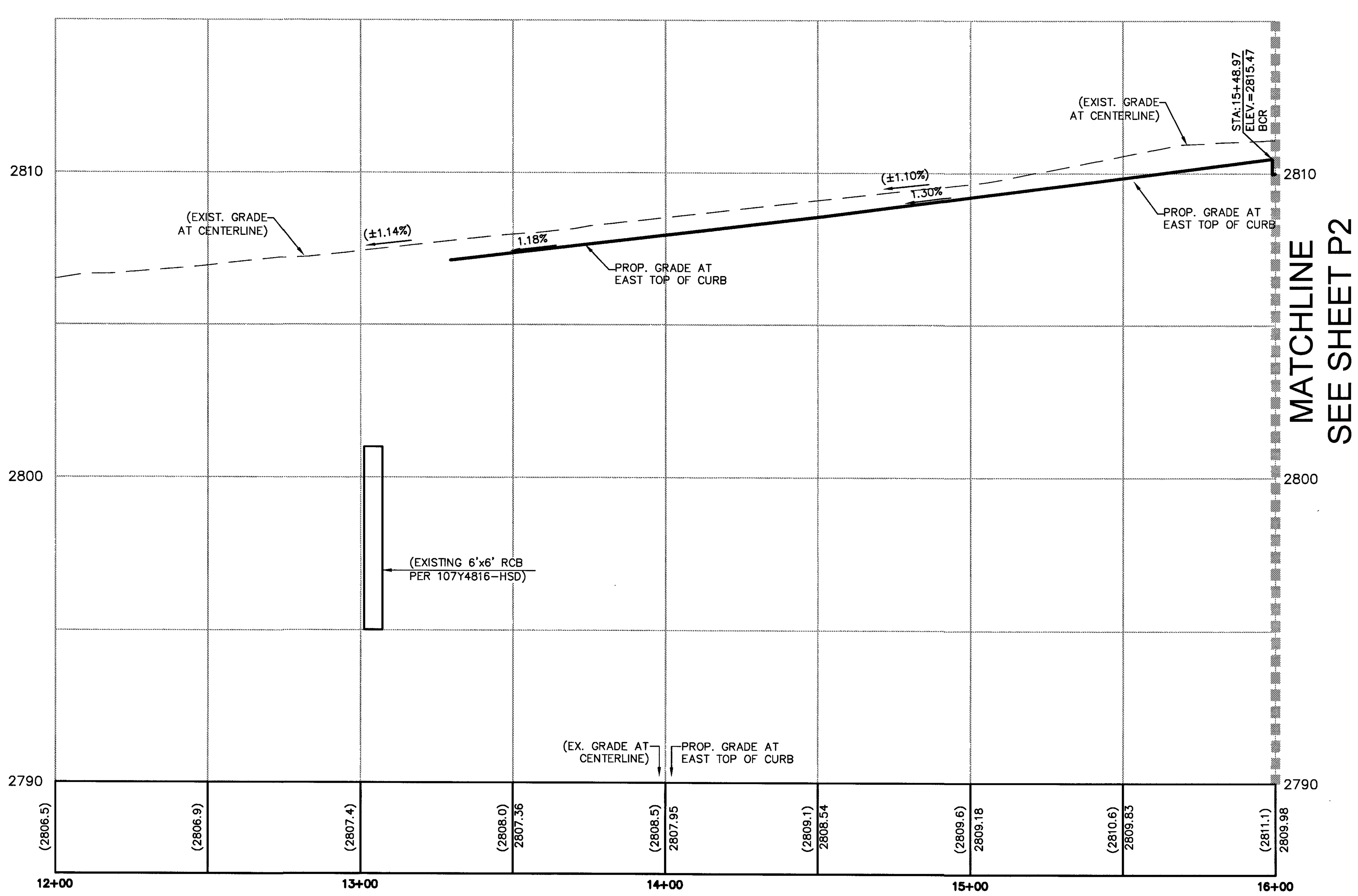
RELOCATION OF FIRE HYDRANTS:

(EXTENSION OF EXISTING LATERALS)
THE CONTRACTOR SHALL REMOVE AND RELOCATE BOTH THE UPPER AND LOWER BARRELS OF THE EXISTING FIRE HYDRANT(S) WHERE SHOWN, EXTEND THE EXISTING LATERALS AS REQUIRED, AND REINSTALL SUCH HYDRANT(S) AT THE NEW LOCATION(S) INDICATED. FIRE HYDRANTS SHALL BE TESTED PRIOR TO AND AFTER RELOCATION, UNDER DIRECTION OF THE DISTRICT, TO ENSURE QUALITY. INSTALLATION SHALL BE IN ACCORDANCE WITH UDACS PLATE 40. LATERALS MADE OF UNAPPROVED MATERIALS SHALL BE REPLACED FROM THE MAIN TO THE FIRE HYDRANT. RELOCATIONS WHERE THE LATERAL CANNOT BE EXTENDED SHALL BE TREATED AS NEW INSTALLATIONS.

NO	CONSTRUCTION NOTES — ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCPW HTE# 17-46383
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8' CONCRETE VALLEY GUTTER PER CCAUSD NO. 228 & 229
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL), CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2' CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

1

NO	WATER CONSTRUCTION NOTES — ITEM
1	WET TAP EX. 10" PVC WATER WITH 10"x 10" TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS SECTION 2.24.01A, EXCAVATE PER UDACS PLATE 17, 19 & 34.
2	INSTALL 10" PVC WL – C900, CLASS 150
3	STUB & CAP – FOR FUTURE CONTINUATION
4	INSTALL CAP & 2" MANUAL BLOW OFF ASSEMBLY PER UDACS PLATE 36
5	INSTALL FIRE HYDRANT PER UDACS PLATE 40
6	INSTALL 10" x 6" TEE W/ 6" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39
7	INSTALL 6" PVC WL – C900, CLASS 150
8	RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1
9	ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39
10	INSTALL 6" RESTRAINED JOINT (RJ) DIP WL – CLASS 350
11	ADJUST TO FINAL GRADE, 2" BLOW OFF PER UDACS PLATE 36



HUALAPAI WAY - PROFILE
STA: 12+00 TO STA: 16+00
SCALE: 1"=30' – HORZ
1"=3' – VERT

BOUNDARY LINE TABLE

LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E
L101	225.06'	S01°35'42"W
L102	87.55'	N81°27'05"E
L103	136.93	N00°19'19"E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
L107	73.77'	N81°27'05"E
L108	150.99'	N89°15'41"E
L109	67.74'	N89°27'56"W

OFF-SITE CURB LINE TABLE

LINE	LENGTH	BEARING
L1	88.23'	N0°19'19"E
L2	181.28'	N1°35'17"E
L3	50.88'	N0°19'19"E
L4	139.93'	N0°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	22.24'	N89°15'41"E
L11	257.69'	N89°27'56"W
L12	317.18'	N89°27'56"W
L13	24.62'	N88°11'35"W
L14	27.19'	N88°11'35"W
L15	101.41'	N89°15'41"E
L16	102.18'	N89°15'41"E
L17	68.23'	N89°27'56"W
L18	65.55'	N89°27'56"W
L19	277.39'	S89°27'56"E
L20	148.50'	N89°27'56"W
L21	49.30'	N89°27'56"W
L22	22.01'	N89°27'56"W
L23	3.00'	N00°44'19"W
L24	3.00'	N00°44'19"W

1

BOUNDARY CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	10°12'18"	1.52'
C104	33.00'	5.88'	10°12'18"	2.95'

OFF-SITE CURB CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
C9	25.00'	4.45'	10°12'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	25.00'	39.27'	90°00'00"	25.00'
C13	25.00'	39.27'	90°00'00"	25.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.28'	30°16'24"	2.71'
C24	10.00'	4.81'	27°32'10"	2.45'
C25	74.00'	40.74'	31°32'47"	20.90'
C26	74.00'	37.21'	28°48'33"	19.01'
C27	1.50'	4.71'	180°00'00"	INFINITY
C28	1.00'	3.14'	180°00'00"	INFINITY
C29	200.00'	40.07'	11°28'42"	20.10'
C30	200.00'	40.07'	11°28'42"	20.10'
C31	5.00'	15.71'	180°00'00"	INFINITY

1

NOTES

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

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

ENGINEER'S NOTES:

1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126JD030.
2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION
5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
9. PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.

1st APPROVED 10/19/17

APPROVED FOR CONSTRUCTION

1

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER 125105 DATE: 5/16/18
APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

CLV#: 107V7168
CC#: PW17-41363-CMF
CLV#: 67712

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

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

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

No.	REVISIONS	DATE	BY
1	UPDATED SVZ NOTE, LINE & CURVE TABLE & CONSTRUCTION NOTE	5-24-18	SB

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

STATE OF NEVADA — PROFESSIONAL ENGINEER — TREASEA WOLF — CIVIL — EXP:6-30-18 — No. 17879 — 4-17-18

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

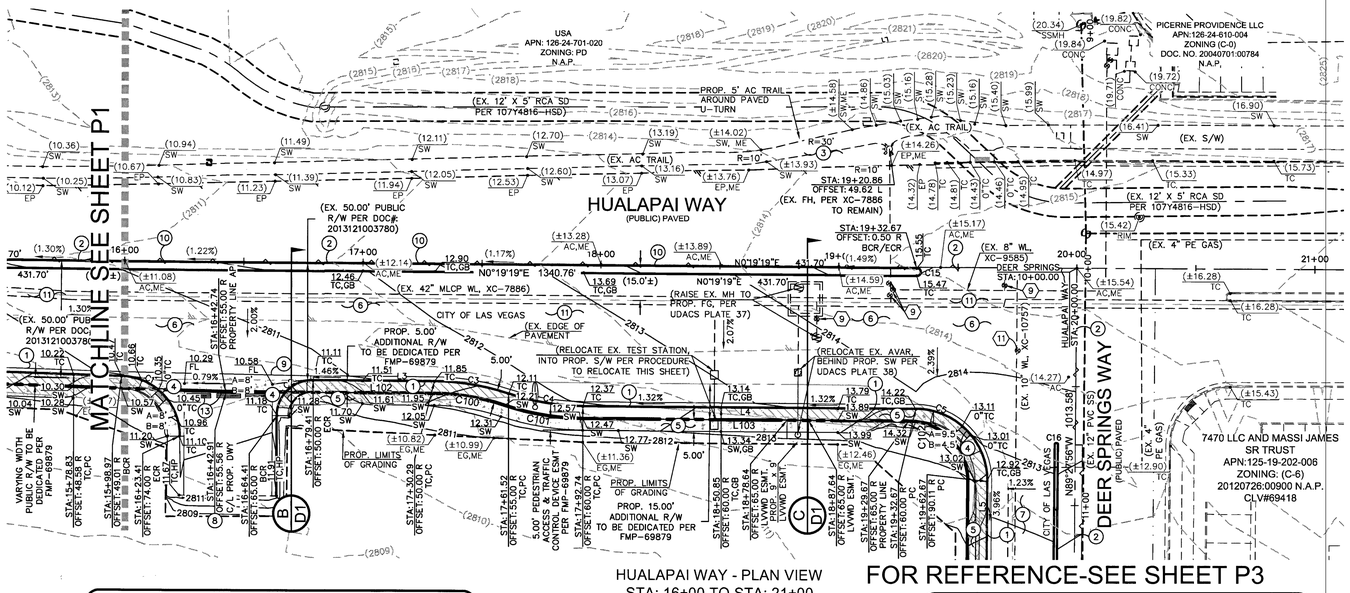
PLAN & PROFILE
HUALAPAI WAY
STA: 12+00 TO STA: 16+00

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

10 OF 17 SHEETS
P1

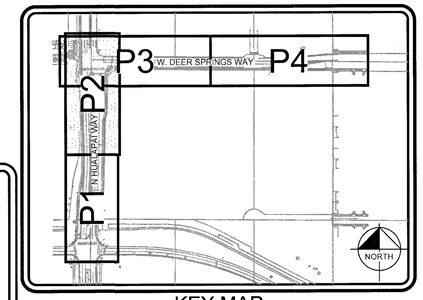
PROJ#:125105 AGR:116197 QS:125-19-SW

Plotted By: Zito, JaLynn Sheet Set: Kha Layout: P1 April 17, 2018 12:40:11pm W:\61153_LAURICH\DWG\IMPRDWGS\OFFSITE\05-61153-P1.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



HUALAPAI WAY - PLAN VIEW
STA: 16+00 TO STA: 21+00

SCALE: 1"=30'



KEY MAP
N.T.S.

GRAPHIC SCALE IN FEET
0 15 30 60
SCALE: 1" = 30'

PROCEDURES TO RELOCATE A CORROSION TEST STATION:

1. EXPOSE THE TEST STATION(S) AND LABEL ALL LEADS ACCORDING TO THE TYPICAL TEST BOARD DETAIL.
2. THE LEADS THAT ARE CONNECTED TO THE PIPE REQUIRE #6 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
3. THE LEAD THAT IS CONNECTED TO THE REFERENCE CELL REQUIRES #14 COPPER WIRE WITH A HMWPE JACKET SUCH AS RAYCHEM PERMARAD.
4. CONNECT THE TWO WIRES TO BE SPLICED WITH A COPPER BUTT CONNECTION USING THE PROPER CRIMPING TOOL.
5. MAKE SURE SPLICE USING A SCOTCHCAST RESIN SPLICING KIT, DURO-CAST UNIVERSAL SPLICE KIT, OR A RAYCHEM ANODE SPLICE ENCAPSULATION KIT.
6. RECONNECT THE TEST BOARD TO PROPER LEADS, AND PLACE THE TEST BOX AT THE NEW SITE.
7. THE TEST BOX AT THE NEW SITE WILL BE INSTALLED ACCORDING TO THE TYPICAL TEST BOX DETAIL.
8. ALL TEST LEADS AND ANODE LEADS INSIDE THE TEST BOX SHALL BE BUNDLED TOGETHER AT 8 INCH INTERVALS WITH NYLON TIES AND SHALL BE PROVIDED WITH A MINIMUM OF 4 FEET OF SLACK.
9. ALL TEST LEADS AND ANODE LEADS SHALL BE COLOR CODED WITH COLORED TAPE AT EACH END, AND AT LEAST 4 FEET INTERVALS.
10. RELOCATED TEST STATION TO BE TESTED BY CERTIFIED CATHODIC PROTECTION SPECIALIST, CORROSION SPECIALIST, OR REGISTERED PROFESSIONAL CORROSION ENGINEER. RESULTS TO BE SUBMITTED IN WRITING TO LVVWD CONSTRUCTION DIVISION.

CONSTRUCTION NOTES

NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCPW HTE #117-46365
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8' CONCRETE VALLEY GUTTER PER CCAUSD NO. 228 & 229
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL). CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2' CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

WATER CONSTRUCTION NOTES

NO	ITEM
1	WET TAP EX. 10" PVC WATER WITH 10"x 10" TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS SECTION 2.24.01A, EXCAVATE PER UDACS PLATE 17, 19 & 34.
2	INSTALL 10" PVC WL – C900, CLASS 150
3	STUB & CAP – FOR FUTURE CONTINUATION
4	INSTALL CAP & 2" MANUAL BLOW OFF ASSEMBLY PER UDACS PLATE 36
5	INSTALL FIRE HYDRANT PER UDACS PLATE 40
6	INSTALL 10" x 6" TEE W/ 6" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39
7	INSTALL 6" PVC WL – C900, CLASS 150
8	RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1
9	ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39
10	INSTALL 6" RESTRAINED JOINT (RJ) DIP WL – CLASS 350
11	ADJUST TO FINAL GRADE, 2" BLOW OFF PER UDACS PLATE 36

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS AID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17sft. (NAVD 88)

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT. AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

BOUNDARY LINE TABLE

LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E
L101	225.06'	S01°35'42"W
L102	87.55'	N81°27'05"E
L103	136.93	N00°19'19"E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
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OFF-SITE CURB LINE TABLE

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L21	49.30'	N89°27'56"W
L22	22.01'	N89°27'56"W
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BOUNDARY CURVE TABLE

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OFF-SITE CURB CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	TANGENT
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C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
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C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
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C23	10.00'	5.28'	30°16'24"	2.71'
C24	10.00'	4.81'	27°32'10"	2.45'
C25	74.00'	40.74'	31°32'47"	20.90'
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C29	200.00'	40.07'	11°28'42"	20.10'
C30	200.00'	40.07'	11°28'42"	20.10'
C31	5.00'	15.71'	180°00'00"	INFINITY

1ST APPROVED 10/25/17

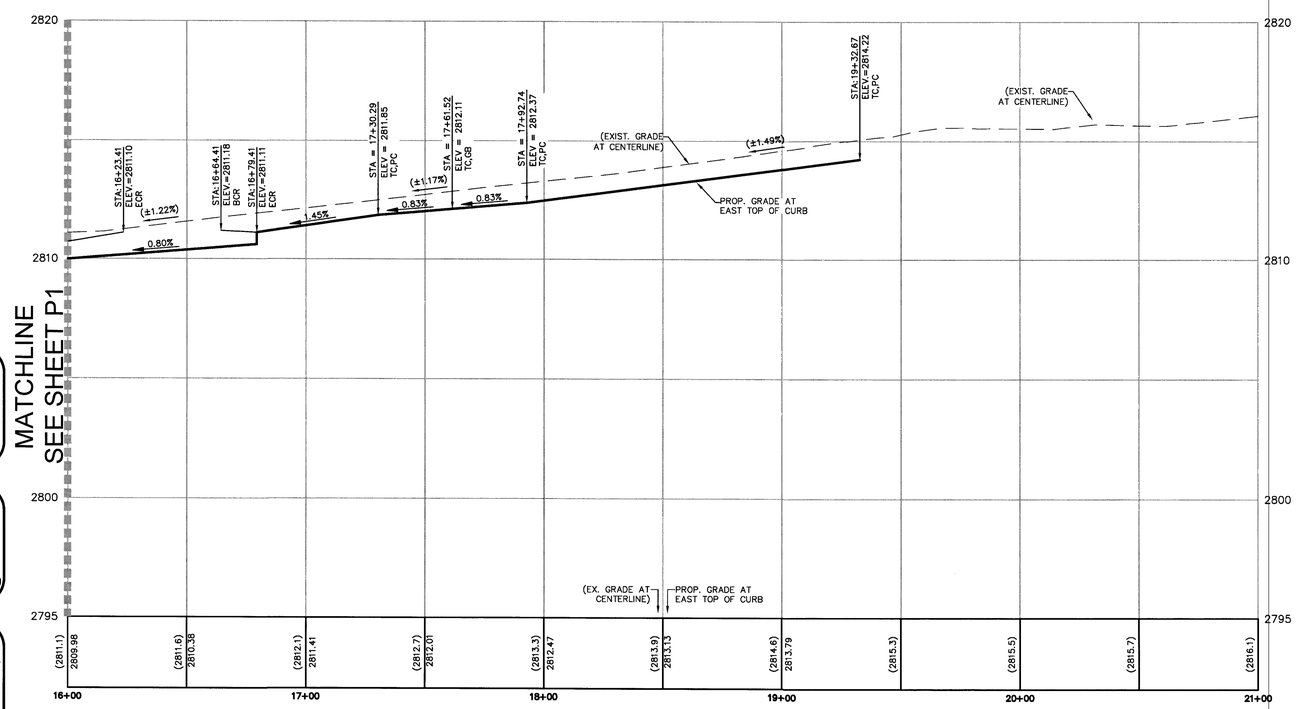
NOTES

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

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

ENGINEER'S NOTES:

1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGES, INC. DATED OCTOBER 12, 2016 PROJECT NO: 4126JD030.
2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION
5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
9. PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.



HUALAPAI WAY - PROFILE
STA: 16+00 TO STA: 21+00

SCALE: 1"=30' – HORZ
1"=3' – VERT

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

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

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

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER 125105 DATE: 5/16/18
APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

CLV#: 107V7168

CC#: PW17-41363-CMF
CLV#: 67712

No.	REVISIONS	DATE	BY
1	UPDATED SYZ NOTE, LINE & CURVE TABLE TING INTO NORTH ADJACENT PROPERTY MPS	5-24-18	SB

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

STATE OF NEVADA PROFESSIONAL ENGINEER No. 17819 5-24-18

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

PLAN & PROFILE
HUALAPAI WAY
STA: 16+00 TO STA: 21+00

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

11 OF 17 SHEETS
P2

PROJ#:125105 AGR:116197 QS:125-19-SW

Plotted By:Zito, JoLynn Sheet Set:Kho Layout:P2 April 17, 2018 12:40:29pm W:\61153_LAURICH\DWG\WPRDWGS\OFFSITE\05-61153-P1.dwg
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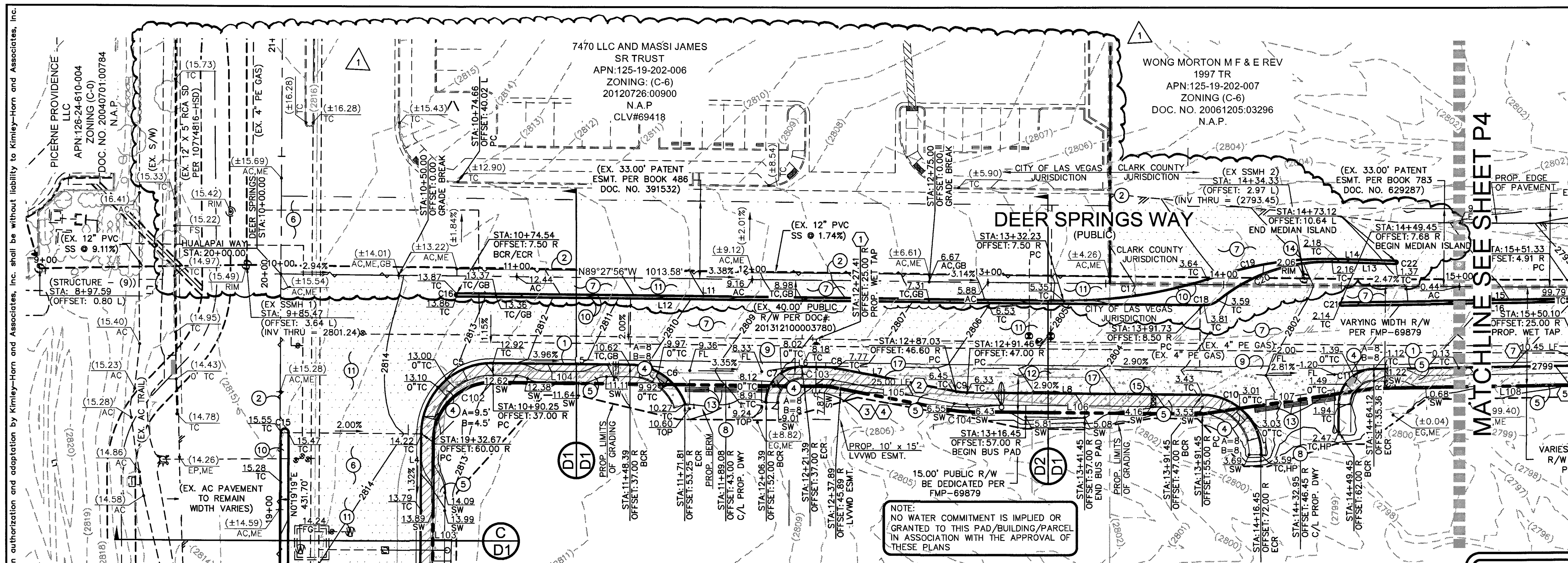

DEER SPRINGS WAY - PLAN VIEW
STA: 9+50 TO STA: 15+00
SCALE: 1"=30'

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60
SCALE: 1" = 30'

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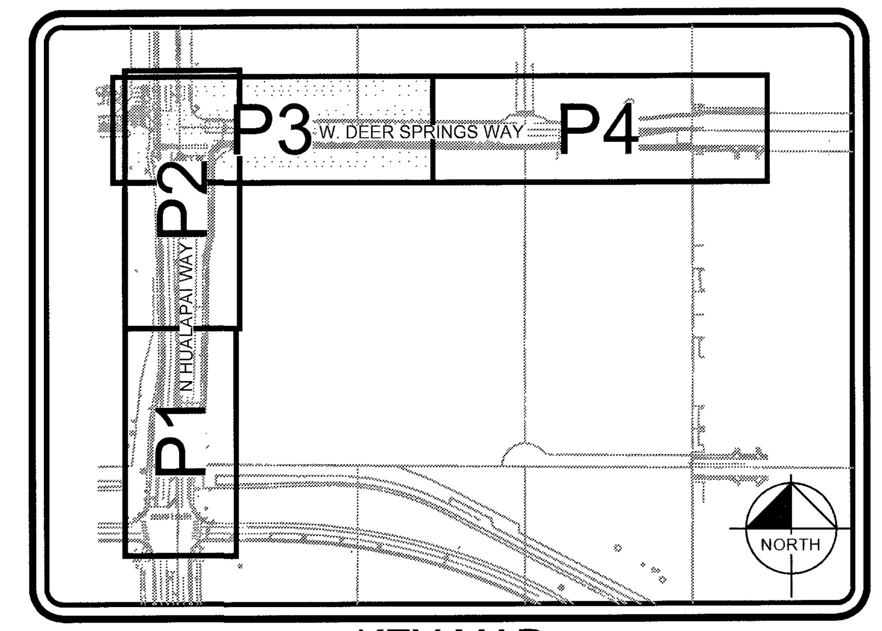


KEY MAP
N.T.S.

LEGEND & ABBREVIATIONS
SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

SIGHT VISIBILITY ZONES NOTE
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS AID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

BASIS OF BEARINGS
NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

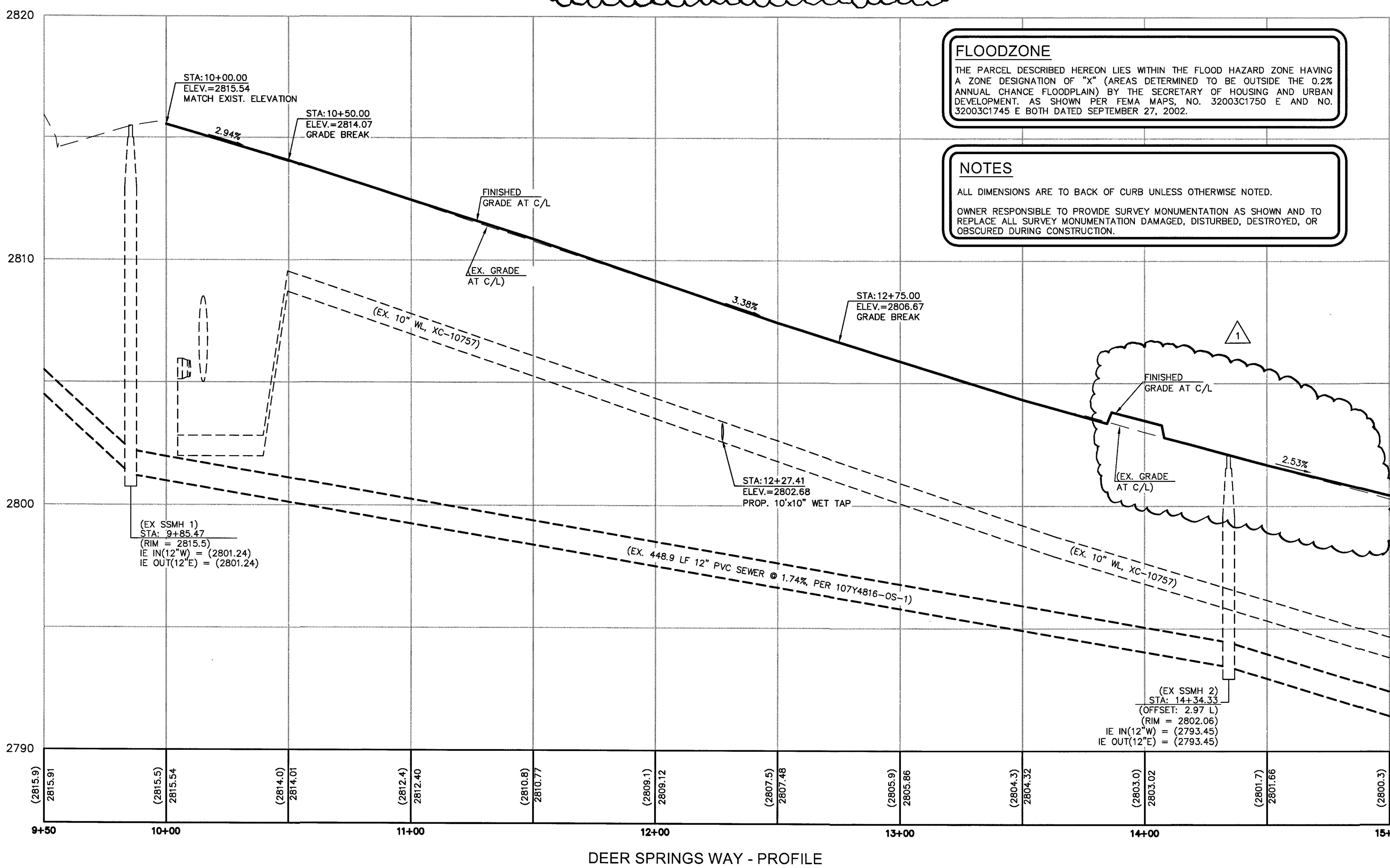
BENCHMARK
BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17sft. (NAVD 88)

CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER)
THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.

FLOODZONE
THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT. AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

NOTES
ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

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



DEER SPRINGS WAY - PROFILE
STA: 9+50 TO STA: 15+00
SCALE: 1"=30' - HORZ
1"=3' - VERT

BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	10°12'18"	1.52'
C104	33.00'	5.88'	10°12'18"	2.95'

OFF-SITE CURB CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
C9	25.00'	4.45'	10°12'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.67'
C12	25.00'	39.27'	90°00'00"	25.00'
C13	25.00'	39.27'	90°00'00"	25.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.28'	30°16'24"	2.71'
C24	10.00'	4.81'	27°32'10"	2.45'
C25	74.00'	40.74'	31°32'47"	20.90'
C26	74.00'	37.21'	28°48'33"	19.01'
C27	1.50'	4.71'	180°00'00"	INFINITY
C28	1.00'	3.14'	180°00'00"	INFINITY
C29	200.00'	40.07'	11°28'42"	20.10'
C30	200.00'	40.07'	11°28'42"	20.10'
C31	5.00'	15.71'	180°00'00"	INFINITY

OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING
L1	88.23'	N0°19'19"E
L2	181.28'	N1°35'17"E
L3	50.88'	N0°19'19"E
L4	139.93'	N0°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	22.24'	N89°15'41"E
L11	257.69'	N89°27'56"W
L12	317.18'	N89°27'56"W
L13	24.62'	N88°11'35"W
L14	27.19'	N88°11'35"W
L15	101.41'	N89°15'41"E
L16	102.18'	N89°15'41"E
L17	68.23'	N89°27'56"W
L18	65.55'	N89°27'56"W
L19	277.39'	S89°27'56"E
L20	148.50'	N89°27'56"W
L21	49.30'	N89°27'56"W
L22	22.01'	N89°27'56"W
L23	3.00'	N00°44'19"W
L24	3.00'	N00°44'19"W

1st Approved 10/19/17

CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
3	ASPHALT S/W 2" AC OVER 6" TYPE II
4	CONSTRUCT SIDEWALK RAMP PER CCAUSD NO. 235 CASE I
5	CONSTRUCT SIDEWALK PER CCAUSD NO. 234
6	CONSTRUCT 4.5" AC OVER 5" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016
7	CONSTRUCT 4" AC OVER 4" TYPE II AB PAVEMENT PER GEOTECHNICAL REPORT BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PER CCPW HTE# 17-46383
8	CONSTRUCT COMMERCIAL CURB RETURN DRIVEWAY PER CCAUSD NO. 222.1 & 225
9	CONSTRUCT 8' CONCRETE VALLEY GUTTER PER CCAUSD NO. 228 & 229
10	CONSTRUCT MEDIAN ISLAND PER CCAUSD DWG NO. 218 AND WITH "A" TYPE ISLAND CURB PER CCAUSD NO. 219
11	DEMOLISH AND REMOVE EXISTING ASPHALT
12	CONSTRUCT BUS STOP & PAD PER CCAUSD NO. 234.1, 234.2 & 234.4
13	CONCRETE BARRIER PER CCAUSD NO. 237
14	ADJUST EX. MANHOLE & COLLAR, VAULT, PULLBOX, VALVE OR BOX TO FINISHED GRADE (TYPICAL), CONTRACTOR TO VERIFY EX. LID IS TRAFFIC RATED IF APPLICABLE & PROVIDE TRAFFIC RATED LID WHERE REQUIRED
15	CONSTRUCT S/W DRAIN PER CCAUSD NO. 236
16	CONSTRUCT 2' CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

WATER CONSTRUCTION NOTES	
NO	ITEM
1	WET TAP EX. 10" PVC WATER WITH 10"x 10" TAPPING SLEEVE W/ 10" TAPPING VALVE PER UDACS SECTION 2.24.01A, EXCAVATE PER UDACS PLATE 17, 19 & 34.
2	INSTALL 10" PVC WL – C900, CLASS 150
3	STUB & CAP – FOR FUTURE CONTINUATION
4	INSTALL CAP & 2" MANUAL BLOW OFF ASSEMBLY PER UDACS PLATE 36
5	INSTALL FIRE HYDRANT PER UDACS PLATE 40
6	INSTALL 10" x 6" TEE W/ 6" GATE VALVE, 10" GATE VALVE, AND 10" x 8" TEE W/ 8" GATE VALVE PER UDACS PLATE 30, 31 & 39
7	INSTALL 6" PVC WL – C900, CLASS 150
8	RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1
9	ADJUST EX GATE VALVE TO GRADE PER UDACS PLATE 39
10	INSTALL 6" RESTRAINED JOINT (RJ) DIP WL – CLASS 350
11	ADJUST TO FINAL GRADE, 2" BLOW OFF PER UDACS PLATE 36

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW
ACCEPTANCE OF PLANS FOR FILING BY
4/26/18

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

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

ENGINEER'S NOTES:
1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126JD030.

2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.

3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).

4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION

5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.

6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.

7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.

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

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER 125105 DATE: 5/16/18
APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

CLV#: 107V7168

CC#: PW17-41363-CMF
CLV#: 67712

No.	REVISIONS	DATE	BY
1	UPDATED DRIVEWAY, MEDIANS, SVZ NOTE, UPDATED TO SHOW TYING INTO NORTH ADJACENT PROPERTY IMPROVEMENTS, LINE & CURVE TABLE	5-24-18	SB

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER – STATE OF NEVADA – TREASEA WOLF – CIVIL – EXP:6-30-18 – No. 17879 – 4.17.18

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

PLAN & PROFILE
DEER SPRINGS WAY
STA: 9+50 TO STA: 15+00

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

PROJ#:125105 AGR:116197 QS:125-19-SW

Plotted By: Zito, JaLynn Sheet Set: Kha Layout: P3 April 17, 2018 12:40:56pm W:\61153_LAURICH\DWG\IMPRDWGS\OFFSITE\06-61153-P3.dwg
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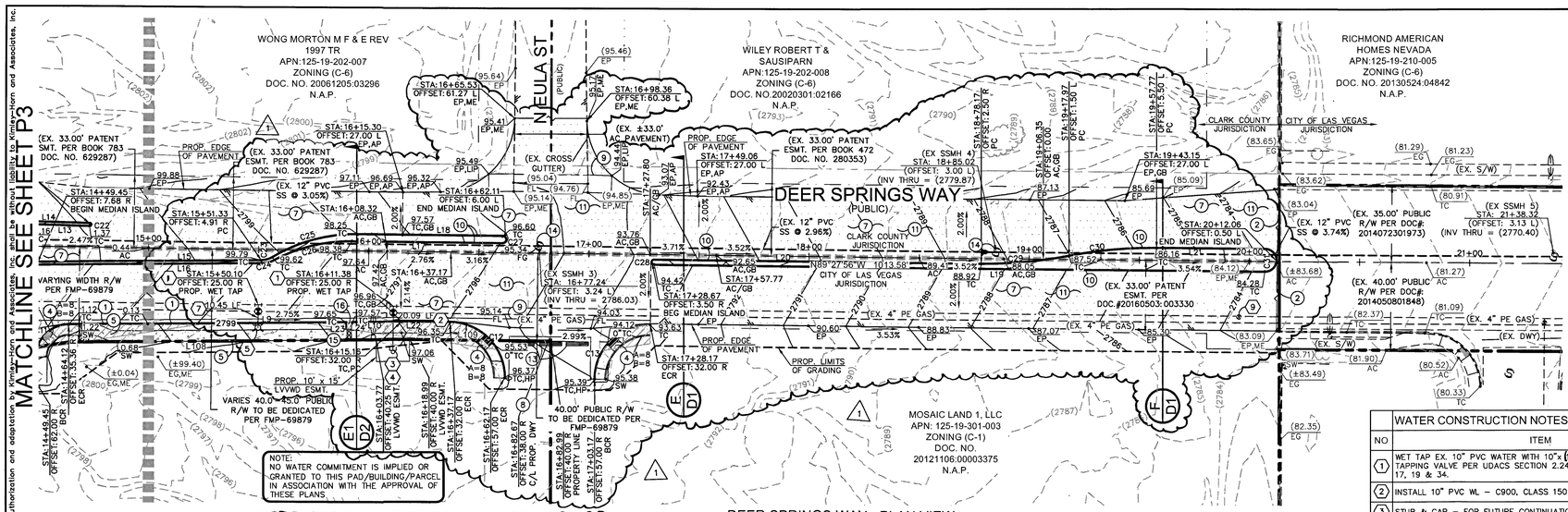

DEER SPRINGS WAY - PLAN VIEW
STA: 9+50 TO STA: 15+00
SCALE: 1"=30'

SIGHT VISIBILITY ZONES NOTE

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BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

WATER CONSTRUCTION NOTES	
NO	ITEM
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2	INSTALL 10" PVC WL – C900, CLASS 150
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7	INSTALL 6" PVC WL – C900, CLASS 150
8	RELOCATE FIRE HYDRANT PER NOTE ON SHEET P1
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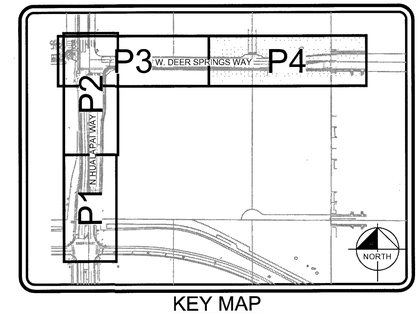

KEY MAP
N.T.S.

CONSTRUCTION NOTES	
NO	ITEM
1	CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
2	SAWCUT NEAT & MATCH EXISTING
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16	CONSTRUCT 2' CONCRETE FLUME PER DETAIL 3 ON SHEET D2
17	CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219

LVVWD NOTE:

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRAIL SHUTDOWN.

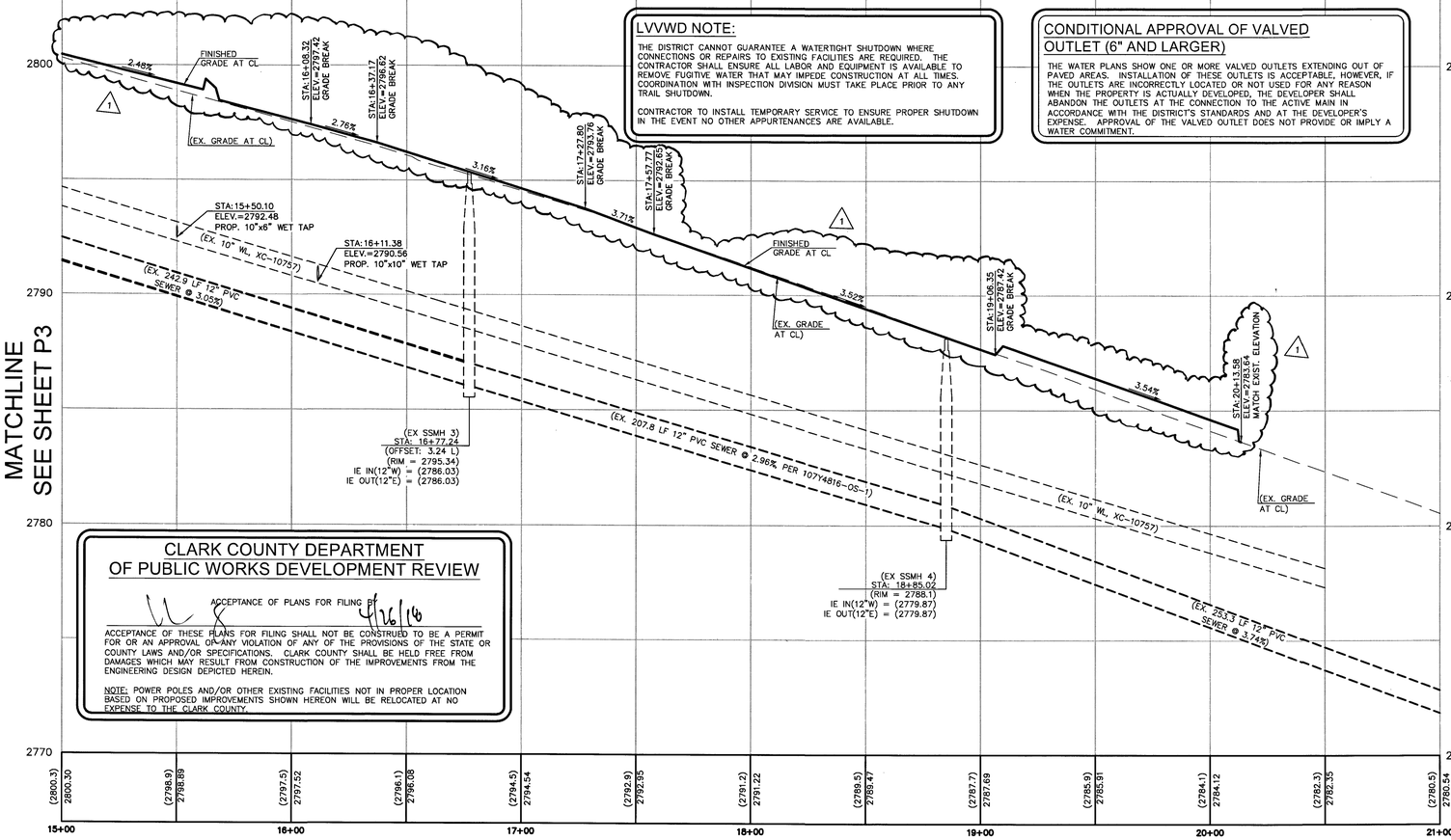
CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

CONDITIONAL APPROVAL OF VALVED OUTLET (6" AND LARGER)

THE WATER PLANS SHOW ONE OR MORE VALVED OUTLETS EXTENDING OUT OF PAVED AREAS. INSTALLATION OF THESE OUTLETS IS ACCEPTABLE, HOWEVER, IF THE OUTLETS ARE INCORRECTLY LOCATED OR NOT USED FOR ANY REASON WHEN THE PROPERTY IS ACTUALLY DEVELOPED, THE DEVELOPER SHALL ABANDON THE OUTLETS AT THE CONNECTION TO THE ACTIVE MAIN IN ACCORDANCE WITH THE DISTRICT'S STANDARDS AND AT THE DEVELOPER'S EXPENSE. APPROVAL OF THE VALVED OUTLET DOES NOT PROVIDE OR IMPLY A WATER COMMITMENT.

GRAPHIC SCALE IN FEET
0 15 30 60
SCALE: 1" = 30'

NORTH



DEER SPRINGS WAY - PROFILE
STA: 15+0 TO STA: 21+00
SCALE: 1"=30' – HORZ
1"=3' – VERT

BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
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C1	25.00'	38.71'	88°43'37"	24.45'
C2	15.00'	23.56'	90°00'00"	15.00'
C3	100.00'	31.76'	18°11'42"	16.01'
C4	100.00'	31.76'	18°11'42"	16.01'
C5	30.00'	47.24'	90°12'45"	30.11'
C6	25.00'	30.33'	69°30'46"	17.35'
C7	15.00'	23.56'	90°00'00"	15.00'
C8	25.00'	4.13'	9°27'44"	2.07'
C9	25.00'	4.45'	10°12'18"	2.23'
C10	25.00'	39.27'	90°00'00"	25.00'
C11	15.00'	23.23'	88°43'37"	14.62'
C12	25.00'	39.27'	90°00'00"	25.00'
C13	25.00'	39.27'	90°00'00"	25.00'
C14	1.50'	4.71'	180°00'00"	INFINITY
C15	1.50'	4.71'	180°00'00"	INFINITY
C16	0.50'	1.57'	180°00'00"	INFINITY
C17	200.00'	65.72'	18°49'35"	33.16
C18	10.00'	6.86'	39°17'28"	3.57'
C19	150.00'	52.62'	20°05'56"	26.58'
C20	73.00'	51.68'	40°33'50"	26.98'
C21	0.50'	1.57'	180°00'00"	INFINITY
C22	0.50'	1.57'	180°00'00"	INFINITY
C23	10.00'	5.28'	30°16'24"	2.71'
C24	10.00'	4.81'	27°32'10"	2.45'
C25	74.00'	40.74'	31°32'47"	20.90'
C26	74.00'	37.21'	28°48'33"	19.01'
C27	1.50'	4.71'	180°00'00"	INFINITY
C28	1.00'	3.14'	180°00'00"	INFINITY
C29	200.00'	40.07'	11°28'42"	20.10'
C30	200.00'	40.07'	11°28'42"	20.10'
C31	5.00'	15.71'	180°00'00"	INFINITY

OFF-SITE CURB LINE TABLE		
LINE	LENGTH	BEARING
L1	88.23'	N0°19'19"E
L2	181.28'	N1°35'17"E
L3	50.88'	N0°19'19"E
L4	1.39.93'	N0°19'19"E
L5	58.14'	N89°27'56"W
L6	10.06'	N89°27'56"W
L7	52.29'	N79°15'39"W
L8	100.00'	N89°27'56"W
L9	125.84'	N89°15'41"E
L10	22.24'	N89°15'41"E
L11	257.69'	N89°27'56"W
L12	317.18'	N89°27'56"W
L13	24.62'	N88°11'35"W
L14	27.19'	N88°11'35"W
L15	101.41'	N89°15'41"E
L16	102.18'	N89°15'41"E
L17	68.23'	N89°27'56"W
L18	65.55'	N89°27'56"W
L19	277.39'	S89°27'56"E
L20	148.50'	N89°27'56"W
L21	49.30'	N89°27'56"W
L22	22.01'	N89°27'56"W
L23	3.00'	N00°44'19"W
L24	3.00'	N00°44'19"W

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17sft. (NAVD 88)

FLOODZONE

THE PARCEL DESCRIBED HEREON LIES WITHIN THE FLOOD HAZARD ZONE HAVING A ZONE DESIGNATION OF "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, AS SHOWN PER FEMA MAPS, NO. 32003C1750 E AND NO. 32003C1745 E BOTH DATED SEPTEMBER 27, 2002.

NOTES

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

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

ENGINEER'S NOTES:

1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, INC. DATED OCTOBER 12, 2016 PROJECT NO. 4126JD030.
2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION
5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
9. PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.

1ST APPROVED 10/19/17

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NUMBER 125105 DATE 5/16/18
APPROVED FIRE FLOW 1,500 GPM AT 20 PSI RESIDUAL

CLV#: 107V7168

CC#: PW17-41363-CMF
CLV#: 67712

CLARK COUNTY DEPARTMENT OF PUBLIC WORKS DEVELOPMENT REVIEW

ACCEPTANCE OF PLANS FOR FILING BY 4/26/18

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

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

LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

No.	REVISIONS	DATE	BY
1	UPDATED DRIVEWAY, MEDIANS, NOTE 9, UPDATED S/Z NOTE, LINE & CURVE TABLE	5-24-18	SA

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

PLAN & PROFILE DEER SPRINGS WAY STA: 15+00 TO STA: 21+00

COMMERCIAL SUBDIVISION @ SEC DEER SPRINGS & HUALAPAI

13 OF 17 SHEETS
P4

PROJ#:125105 AGR:116197 QS:125-19-SW

Plotted By:Zito, Jaylynn Sheet Set:Kho Layout:P4 April 17, 2018 12:41:13pm W:\61153_LAURICH\DWG\WPRDWGS\OFFSITE\06-61153-P3.dwg
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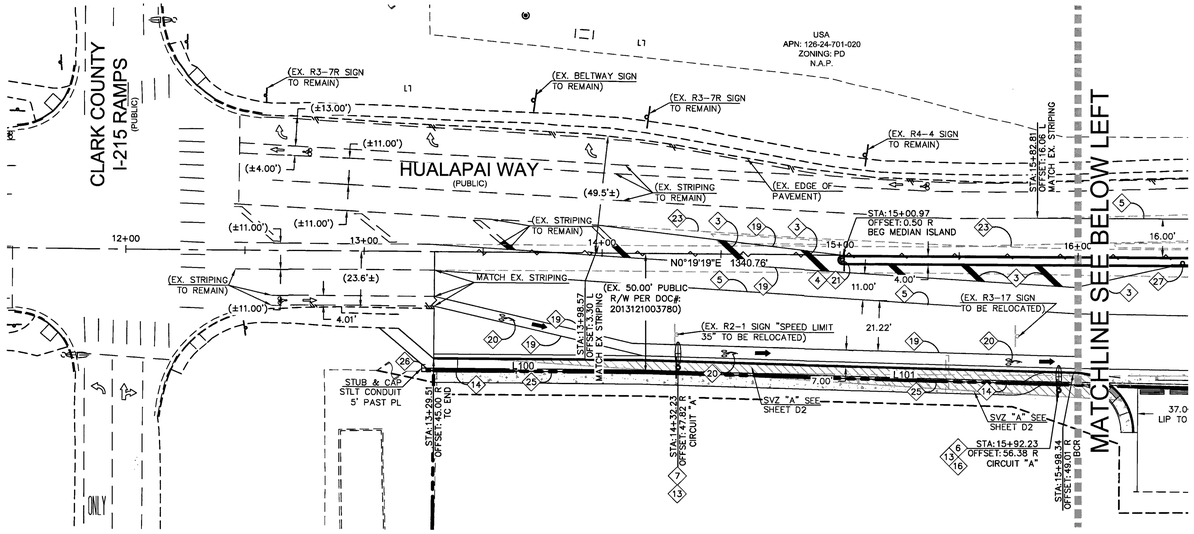


LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17sft. (NAVD 88)

SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS AID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

NOTES:

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED. OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

LEGEND

- PROPERTY LINE
- STREET CENTERLINE
- PROPOSED BUILDING
- PROPOSED CURB & GUTTER
- PROPOSED CURB
- EXISTING CURB & GUTTER
- EXISTING CURB
- EXISTING STRIPING
- PROPOSED STRIPING
- FAST CONDUIT
- STREET LIGHT CONDUIT
- SCREEN WALL/RETAINING
- PULLBOX
- 200 AMP SERVICE PEDESTAL
- 250 W STREET LIGHT
- 400 W STREET LIGHT
- FIRE HYDRANT
- SITE VISIBILITY ZONE

CONTRACTOR NOTES:

1. CONTRACTOR SHALL CONTACT CITY OF LAS VEGAS TRAFFIC OPERATIONS AT 229-6075 TO SCHEDULE CITY TRAFFIC STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED PRIOR TO THEIS OPERATION.

   HOURS OF OPERATION ARE: 6:30AM-3:00PM, MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS.

2. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS) UNDER CITY OF LAS VEGAS JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CITY OF LAS VEGAS SATISFACTION. ALL MATERIALS USED SHALL MEET CITY OF LAS VEGAS' SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.

3. NO STRUCTURE, VEGETATION, OR OBJECT OF ANY KIND IS PERMITTED OVER TWENTY-FOUR (24) INCHES IN HEIGHT (MEASURED FROM THE TOP OF THE ADJACENT CURB IF CURB EXISTS) WITHIN THE SIGHT VISIBILITY ZONES.

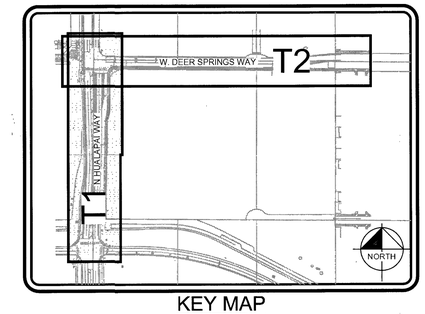
4. CONTRACTOR TO REVIEW UNDERGROUND CONSTRUCTION PER THIS PLAN SET PRIOR TO CONSTRUCTION OF ANY TRAFFIC CONTROL DEVICES

STREET LIGHTING NOTES:

ALL PROPOSED STREET LIGHTS ALONG HUALAPAI WAY, TO MATCH THE EXISTING DECORATIVE LIGHTS.

CLARK COUNTY CONCURRENCE

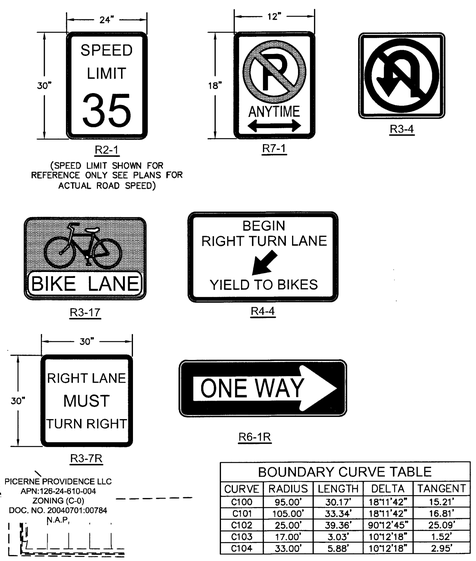
NO WORK TO BE PERFORMED IN CLARK COUNTY RIGHT-OF-WAY UNTIL CLARK COUNTY APPROVAL IS OBTAINED



KEY MAP
N.T.S.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60
SCALE: 1" = 30'



BOUNDARY CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C100	95.00'	30.17'	18°11'42"	15.21'
C101	105.00'	33.34'	18°11'42"	16.81'
C102	25.00'	39.36'	90°12'45"	25.09'
C103	17.00'	3.03'	10°12'18"	1.52'
C104	33.00'	5.88'	10°12'18"	2.95'

BOUNDARY LINE TABLE		
LINE	LENGTH	BEARING
L100	88.23'	N00°19'19"E
L101	225.06'	S01°35'42"W
L102	87.55'	N81°27'05"E
L103	136.93	N00°19'19"E
L104	141.18'	N89°27'56"W
L105	51.98'	N79°15'39"W
L106	100.00'	N89°27'56"W
L107	73.77'	N81°27'05"E
L108	150.99'	N89°15'41"E
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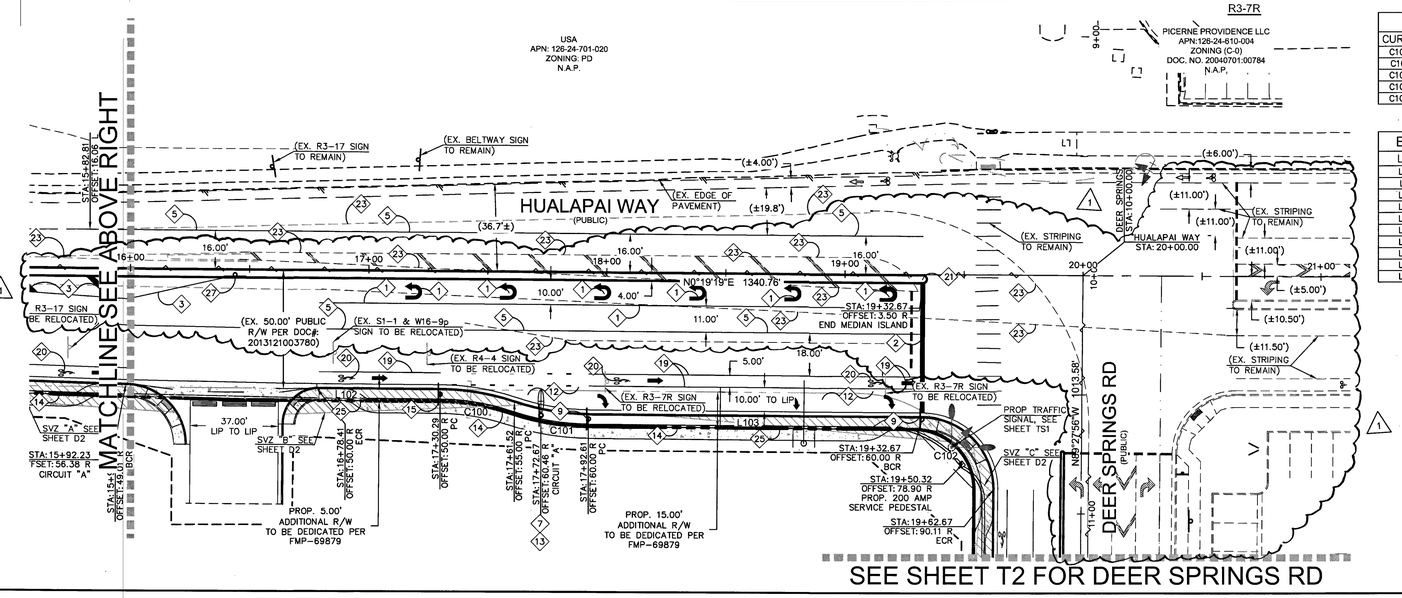

TRAFFIC NOTES	
NO	ITEM
1	INSTALL TURN ARROW AND PAVEMENT MARKINGS PER CCAUSD #246 (RPM)
2	INSTALL 24" WIDE STOP BAR AND/OR CROSSWALK MARKINGS PER CCAUSD #254
3	INSTALL LANE DELINEATION WITH 24" CHEVRONS PER CCAUSD #245
4	INSTALL 24"X30" R3-4 (NO U-TURN SIGN)
5	INSTALL TYPE 4 LANE LINE
6	INSTALL 24"X30" R2-1 (SPEED LIMIT SIGN)
7	INSTALL 12"X18" R7-1 (NO PARKING SIGN)
8	INSTALL FORCED LEFT MARKER OR RIGHT TURN STORAGE LANE MARKER PER CCAUSD #246.6
9	INSTALL 30"X30" R3-7R (RIGHT TURN ONLY)
10	INSTALL 24"X36" R3-5ρP (BUS EXEMPT SIGN)
11	NOT USED
12	INSTALL BICYCLE LANE APPROACH TO EXCLUSIVE RIGHT TURN LANE PER CCAUSD #246.1
13	INSTALL LED FIXTURE CA22-LE-160 LA-AW-UMIV-BLP PER TOWN CENTER STDS. POLE AND FOUNDATION PER CCAUSD #314, #320 & #321
14	INSTALL 1-1/4" PVC STREET LIGHT CONDUIT AND WIRE
15	INSTALL R4-4 (BEGIN RIGHT TURN LANE YIELD TO BIKERS)
16	INSTALL R3-17 (RIGHT TURN BIKERS ONLY)
17	INSTALL R4-7 & R3-4 SIGNS
18	NOT USED
19	INSTALL 6" SOLID WHITE LINE (TAPE OR PAINT)
20	INSTALL BICYCLE LANE DELINEATION PER CCAUSD #244.9
21	INSTALL MEDIAN NOSE MARKINGS PER CCAUSD #248 & K-71 FLEXIBLE MARKER POST
22	INSTALL FLASHING YELLOW ARROW U-TURN SIGNAL WITH U-TURN YIELD SIGN
23	OBLITERATE EXISTING STRIPING
24	INSTALL 15' MAST ARM 250W STREETLIGHT AND FOUNDATION PER CCAUSD #316, #320, AND #321
25	INSTALL 4' F.A.S.T. INTERCONNECT CONDUIT CONTAINING (1) #8 BARE WIRE
26	INSTALL P-30 PULL BOX PER CCAUSD #326
27	INSTALL R6-1R (ONE WAY)
28	INSTALL R3-16A (BIKE LANE ENDS)

CALL BEFORE YOU OVERHEAD 1-702-227-2929

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

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

CLV#: 107V7168

CC#: PW17-41363-CMF
CLV#: 67712

No.	REVISIONS	DATE	BY
1	UPDATED SVZ NOTE & STRIPING PER NORTHERN ADJ PROPERTY IMPROVEMENTS	5-24-18	SB

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER STATE OF NEVADA JESSE L. WOLF No. 17819 CIVIL EXP.6/30/19

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

TRAFFIC CONTROL PLAN SHEET 1 OF 2

COMMERCIAL SUBDIVISION @ SEC DEER SPRINGS & HUALAPAI

14 OF 17 SHEETS

T1

Plotted By:Zito, Jaylynn Sheet Set:Kho Layout:T1 April 17, 2018 12:41:30pm W:\61153.JLAURICH.DWG\MPROWGS\OFFSITE\07-61153-T1.dwg
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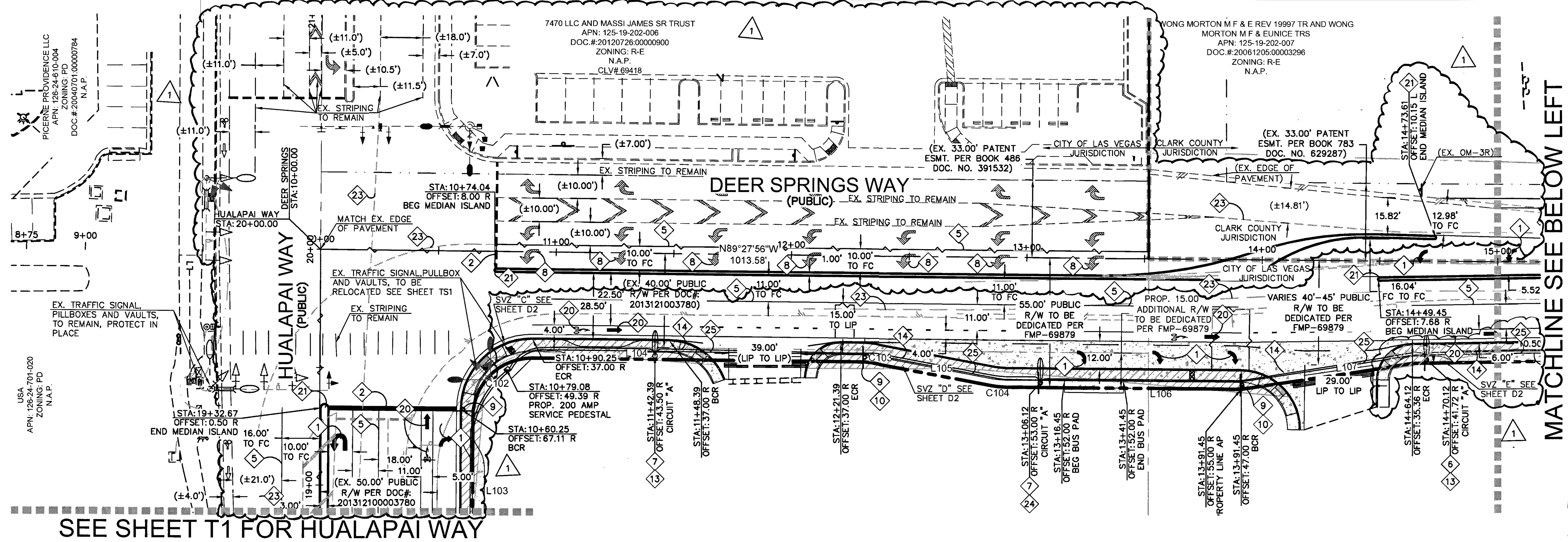
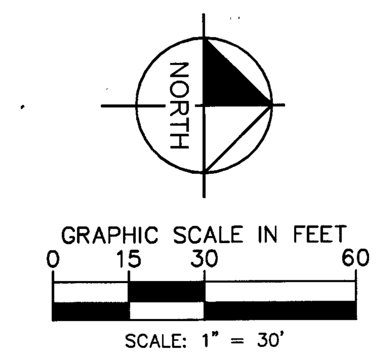
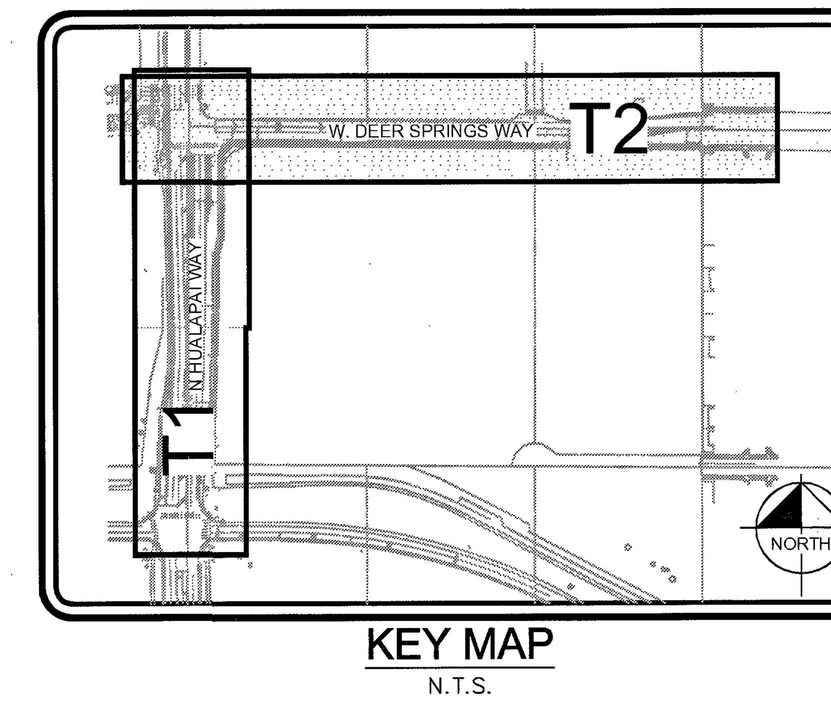
Plotted By: Zito, JaLynn Sheet Set: Kha Layout: T2 April 17, 2018 01:03:21pm W:\61153_LAURICH\DWG\IMPRDWGS\OFFSITE\08-61153-T2.dwg







KEY MAP
N.T.S.

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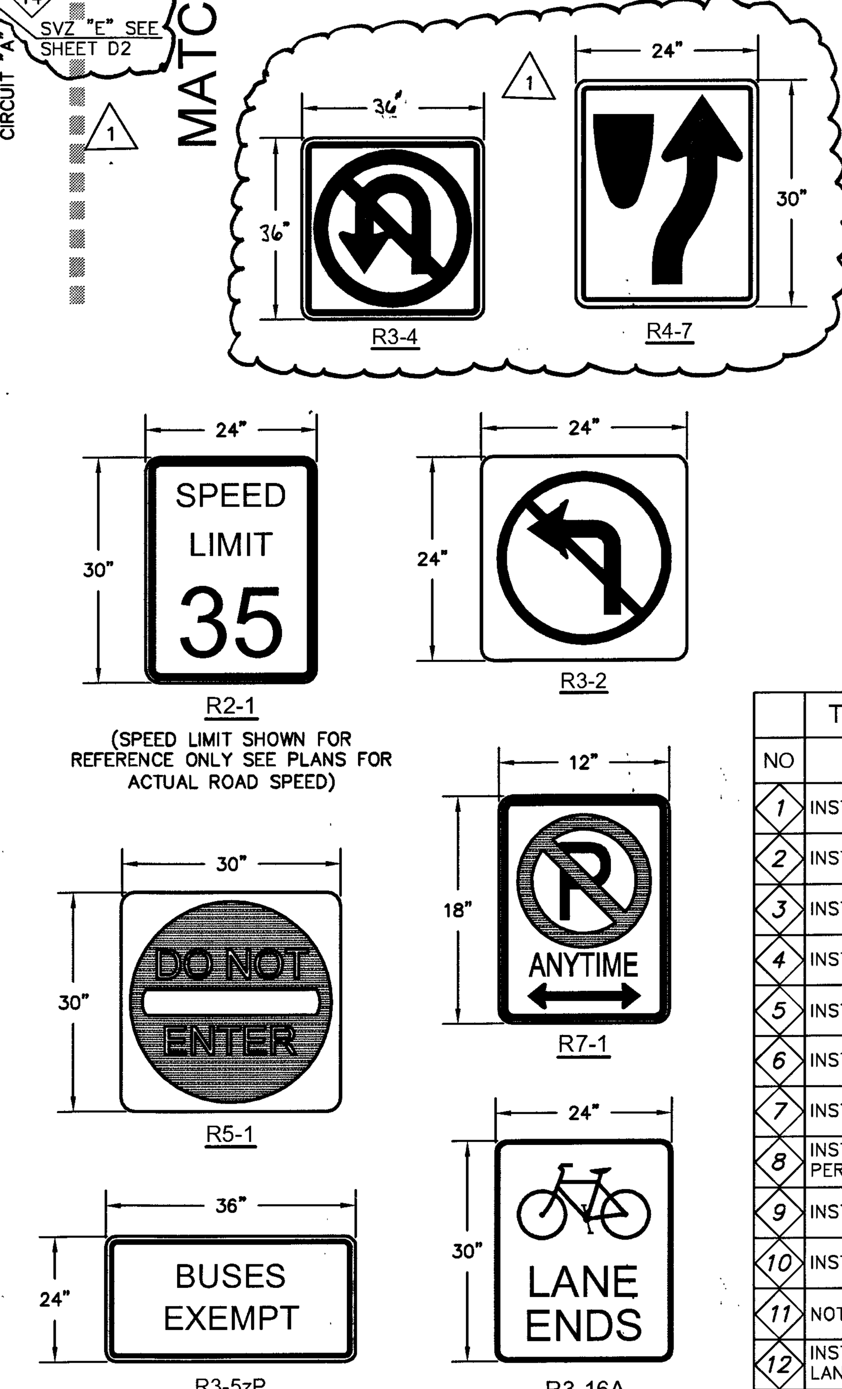

LEGAL DESCRIPTION
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BASIS OF BEARINGS
NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

BENCHMARK
BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17sft. (NAVD 88)

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LEGEND
- PROPERTY LINE
- STREET CENTERLINE
- PROPOSED BUILDING
- PROPOSED CURB & GUTTER
- PROPOSED CURB
- EXISTING CURB & GUTTER
- EXISTING CURB
- EXISTING STRIPING
- PROPOSED STRIPING
- FAST CONDUIT
- STREET LIGHT CONDUIT
- SCREEN WALL/RETAINING
- PULLBOX
- 200 AMP SERVICE PEDESTAL
- 250 W STREET LIGHT
- 400 W STREET LIGHT
- FIRE HYDRANT
- SITE VISIBILITY ZONE

CLARK COUNTY CONCURRENCE
NO WORK TO BE PERFORMED IN CLARK COUNTY RIGHT-OF-WAY UNTIL CLARK COUNTY APPROVAL IS OBTAINED

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4. CONTRACTOR TO REVIEW UNDERGROUND CONSTRUCTION PER THIS PLAN SET PRIOR TO CONSTRUCTION OF ANY TRAFFIC CONTROL DEVICES

CLARK COUNTY SALVAGE NOTE
CONTRACTOR SHALL EXERCISE CARE WITH ALL SALVAGED ITEMS AND SHALL ASSUME THAT ITEMS WILL BE RE-USED AGAIN BY CLARK COUNTY. ALL SALVAGED EQUIPMENT SHALL HAVE ALL COMPONENTS INCLUDED AND DISASSEMBLED FROM THEIR MAIN COMPONENTS. ANY ITEMS TO BE RETURNED TO CLARK COUNTY TRAFFIC OPERATIONS SHALL INCLUDE A TRANSMITTAL FORM WITH THE CONTRACTOR'S COMPANY LETTERHEAD. THE TRANSMITTAL FORM SHALL INCLUDE THE ASSOCIATED PROJECT NAME AND NUMBER, AND LIST OF THE ITEMS AND THE QUANTITIES OF ITEMS BEING RETURNED. CONTRACTOR SHALL CALL (702) 455-6000 TO MAKE AN APPOINTMENT FOR DROPPING OFF SALVAGED ITEMS.

STREETLIGHT CIRCUIT CAPACITY VERIFICATION FOR CIRCUIT "A" HUALAPAI WAY

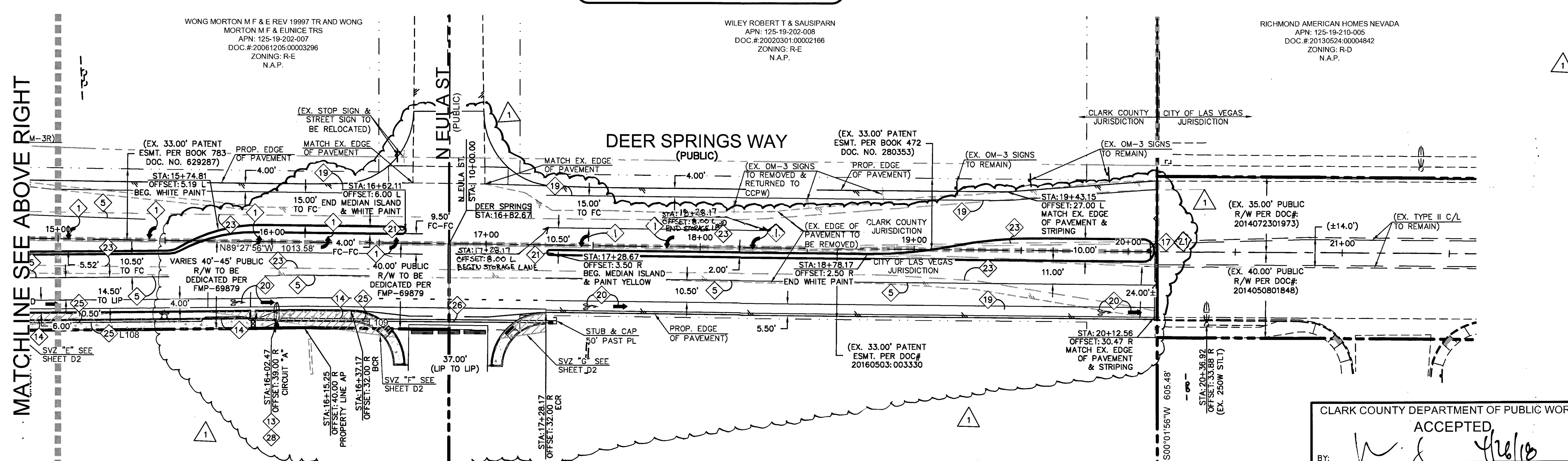
IS THERE AN EXISTING SERVICE PEDESTAL IN THE FIELD (NOT PROPOSED) ADJACENT TO THIS PROPERTY THAT MIGHT BE ABLE TO BE USED TO POWER THIS PROJECT'S STREETLIGHTS? (CIRCLE)	YES	CONTACT CITY OF LAS VEGAS TRAFFIC ENGINEERING DIVISION AT 702-229-6327 TO PERFORM CIRCUIT CAPACITY VERIFICATION
	(NO)	INSTALL A NEW PEDESTAL
SERVICE PEDESTAL LOCATION: SEC OF HUALAPAI WAY & DEER SPRINGS WAY; STA:19+50.32		
LAS VEGAS (COMPLETE IF EXISTING SERVICE)		
DATE OF CAPACITY VERIFICATION	NA	
OFF-SITE PLANS ENGINEER		
PERSON WHO DID THE CALCULATIONS	TREASEA WOLF, PE	
CONSULTING ENGINEERING FIRM	KIMLEY HORN ASSOCIATES	

CAPACITY CALCULATIONS

1		CIRCUIT CAPACITY:	60	AMPS
2		MAXIMUM CONTINUOUS CURRENT DRAW (80%)	48	AMPS
3		EXISTING CIRCUIT LOAD (ENTER 0 IF NEW)	0	AMPS
4		AVAILABLE (2 MINUS 3)	48	AMPS
PROPOSED LUMINAIRE LOAD TO CIRCUIT:				
5	0	NUMBER OF 100 WATT STLTS @ 1.0 AMPS/EA	0	AMPS
6	7	NUMBER OF 250 WATT STLTS @ 1.5 AMPS/EA	10.5	AMPS
7		TOTAL PROPOSED ADDITIONAL LOAD (5 + 6)	10.5	AMPS
REMAINING AVAILABLE LOAD (4 MINUS 7)			37.5	AMPS

TRAFFIC NOTES

NO	ITEM
1	INSTALL TURN ARROW AND PAVEMENT MARKINGS PER CCAUSD #246 (RPM)
2	INSTALL 24" WIDE STOP BAR AND/OR CROSSWALK MARKINGS PER CCAUSD #254
3	INSTALL LANE DELINEATION WITH 24" CHEVRONS PER CCAUSD #245
4	INSTALL 24"X30" R3-4 (NO U-TURN SIGN)
5	INSTALL TYPE 4 LANE LINE
6	INSTALL 24"X30" R2-1 (SPEED LIMIT SIGN)
7	INSTALL 12"X18" R7-1 (NO PARKING SIGN)
8	INSTALL FORCED LEFT MARKER OR RIGHT TURN STORAGE LANE MARKER PER CCAUSD #246.6
9	INSTALL 30"X30" R3-7R (RIGHT TURN ONLY)
10	INSTALL 24"X36" R3-5zP (BUS EXEMPT SIGN)
11	NOT USED
12	INSTALL BICYCLE LANE APPROACH TO EXCLUSIVE RIGHT TURN LANE PER CCAUSD #246.1
13	INSTALL LED FIXTURE CA22-LE-160 LA-AW-UMIV-BLP PER TOWN CENTER STDS. POLE AND FOUNDATION PER CCAUSD #314, #320 & #321
14	INSTALL 1-1/4" PVC STREET LIGHT CONDUIT AND WIRE
15	INSTALL R4-4 (BEGIN RIGHT TURN LANE YIELD TO BIKERS)
16	INSTALL R3-17 (RIGHT TURN BIKERS ONLY)
17	INSTALL R4-7 & R3-4 SIGNS
18	NOT USED
19	INSTALL 6" SOLID WHITE LINE (TAPE OR PAINT)
20	INSTALL BICYCLE LANE DELINEATION PER CCAUSD #244.9
21	INSTALL MEDIAN NOSE MARKINGS PER CCAUSD #248 & K-71 FLEXIBLE MARKER POST
22	INSTALL FLASHING YELLOW ARROW U-TURN SIGNAL WITH U-TURN YIELD SIGN
23	OBLITERATE EXISTING STRIPING
24	INSTALL 15' MAST ARM 250W STREETLIGHT AND FOUNDATION PER CCAUSD #316, #320, AND #321
25	INSTALL 4' F.A.S.T. INTERCONNECT CONDUIT CONTAINING (1) #8 BARE WIRE
26	INSTALL P-30 PULL BOX PER CCAUSD #326
27	INSTALL R6-1R (ONE WAY)
28	INSTALL R3-16A (BIKE LANE ENDS)



CLARK COUNTY DEPARTMENT OF PUBLIC WORKS
ACCEPTED
BY: [signature] 4/26/18
ACCEPTANCE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF STATE, COUNTY OR FEDERAL LAW, SPECIFICATIONS, OR THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

CLV#: 107V7168

CC#: PW17-41363-CMF
CLV#: 67712

No.	REVISIONS	DATE	BY
1	UPDATED DWY, MEDIANS, STRIPING & SVZ'S; UPDATED NOTE 1, UPDATED SVZ NOTE, & LINE WORK FOR NORTHERN ADJ PROPERTY	5-24-18	SB

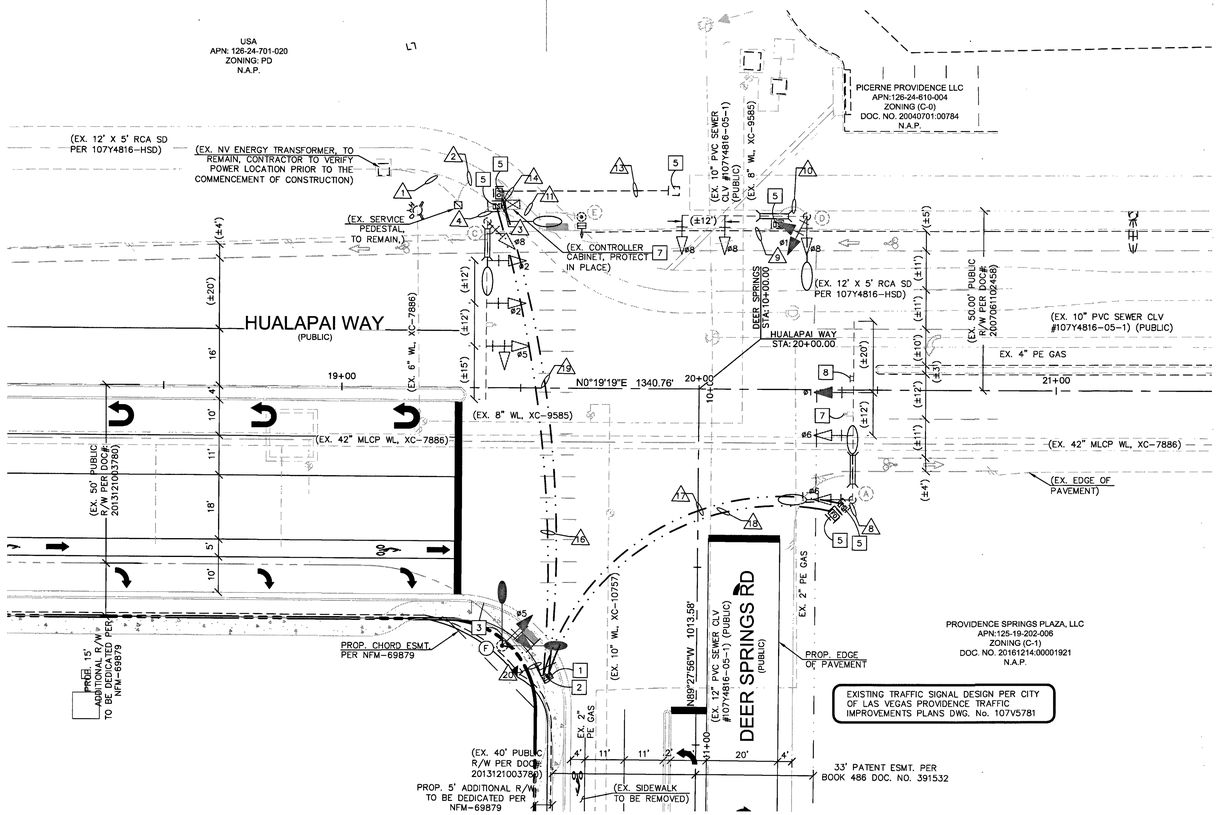
Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

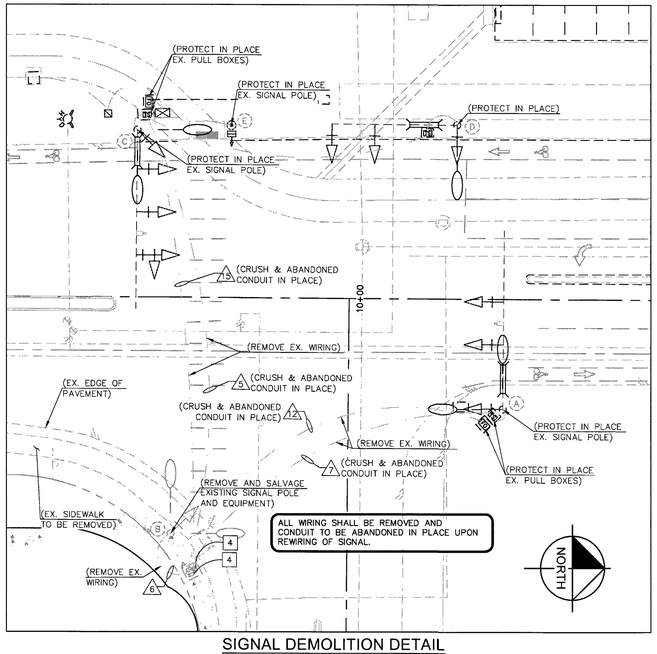
PROFESSIONAL ENGINEER STATE OF NEVADA TREASEA WOLF CIVIL No. 17879 EXP.6-30-18 4.17.18

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

TRAFFIC CONTROL PLAN SHEET 2 OF 2

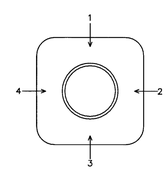
COMMERCIAL SUBDIVISION @ SEC DEER SPRINGS & HUALAPAI





SIGNAL DEMOLITION DETAIL

SCALE: 1" = 20'



QUADRANT

ARM, SIGNAL, PED BUTTON (TOP VIEW)

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

	TRAFFIC SIGNAL CONSTRUCTION NOTES
NO	ITEM
1	INSTALL DOUBLE STACKED NO. 5 PULL BOX PER U.S.D. 329 & 706.
2	INSTALL P30 PULL BOX PER U.S.D. 710, 711 & 761.
3	INSTALL TRAFFIC SIGNAL POLE LUMINARIES. PROPOSED LUMINARIES SHALL CONFORM CURRENT (AS OF THE DATE OF INSPECTION) CITY STANDARDS AND SPECIFICATIONS.
4	EXISTING PULL BOX TO REMOVED.
5	EXISTING PULL BOX TO REMAIN, PROTECT IN PLACE.
6	EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT TO REMAIN, PROTECT IN PLACE
7	CONTRACTOR SHALL COORDINATE WITH CITY TRAFFIC INSPECTOR REGARDING THE REPROGRAMMING OF TRAFFIC SIGNAL VIDEO DETECTION ZONES
8	INSTALL MODIFIED R3-4 (U-TURN PERMITTED)

PHASE DIAGRAM

Ø1	Ø2	Ø3	Ø4
	FYA	N/A	N/A
Ø5	**Ø6**	**Ø7**	**Ø8**
		N/A	

CONFLICT FLASH - ALL RED

SIGNAL GENERAL NOTES:

1. CONTRACTOR SHALL CONTACT CITY OF LAS VEGAS TRAFFIC OPERATIONS AT 229-6075 TO SCHEDULE CITY TRAFFIC STAFF TO LOCATE UNDERGROUND STREETLIGHTING AND SIGNAL FACILITIES IN THE PROJECT AREA. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED PRIOR TO THEIR OPERATION.

   HOURS OF OPERATION ARE: 6:30AM-3:00PM, MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS.
2. REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS) UNDER CITY OF LAS VEGAS JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CITY OF LAS VEGAS SATISFACTION. ALL MATERIALS USED SHALL MEET CITY OF LAS VEGAS' SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.
3. EXISTING TRAFFIC SIGNAL SHALL REMAIN IN OPERATION THROUGHOUT CONSTRUCTION.
4. CONTRACTOR TO REVIEW UNDERGROUND CONSTRUCTION PER THIS PLAN AND CITY OF LAS VEGAS PROVIDENCE TRAFFIC IMPROVEMENTS DWG. No. 107V5781 SET PRIOR TO CONSTRUCTION OF ANY TRAFFIC CONTROL DEVICES
5. CONDUIT ROUTING AND PULLBOX PLACEMENT LOCATIONS ARE SHOWN SCHEMATICALLY ON THE PLANS AND MAY VARY IN THE FIELD.
6. COORDINATE WITH CITY INSPECTOR ON RETURN OF SALVAGED TRAFFIC SIGNAL EQUIPMENT.
7. CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL PHASING.

AVOID VEHICLE OVERHEAD POWER LINES. IT'S COMFY.
CALL BEFORE YOU OVERHEAD
1-702-227-2929

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

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

CLV#: 107V7168

CC#: HTE: 17-41363
CLV#: 67712

NOTE

REFER TO SHEET TS2 FOR CONDUIT, WIRE & POLE SCHEDULE

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17sft. (NAVD 88)

No.	REVISIONS	DATE	BY

Kimley»Horn
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

PROFESSIONAL ENGINEER STATE OF NEVADA
PAUL E. WOLF
CIVIL
EXP.6/30/18
No. 17873

KHA PROJECT 61153.52
DATE 10/6/17
SCALE AS SHOWN
DESIGNED BY MS
DRAWN BY MS
CHECKED BY TA

TRAFFIC SIGNAL PLAN
SHEET 1 OF 2

COMMERCIAL SUBDIVISION
@ SEC DEER SPRINGS & HUALAPAI

16 OF 17 SHEETS
TS1

Plotted By:Zito, JoLynn Sheet Set:Kha Layout:TS1 October 06, 2017 09:52:23am W:\61153_LAURICH\DWG\WEPRDWGS\OFFSITE\09-61153-TS1.dwg
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POLE SCHEDULE

POLE NO.	LOCATION STATION & OFFSET	POLE: TYPE / HEIGHT	POLE: FOUND	POLE: MAST ARM QUAD	POLE: MAST ARM LENGTH	POLE: LUMINAIRE QUAD	POLE: LUMINAIRE LENGTH	SIGNALS VEHICLE: TYPE	SIGNALS VEHICLE: QUAD	SIGNALS PEDESTRIAN: TYPE	SIGNALS PEDESTRIAN: QUAD	PEDESTRIAN PUSH BUTTON: ARROW	PEDESTRIAN PUSH BUTTON: QUAD	REMARKS
A	STA: 20+43.14 OFF: 30.72' RT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(2) M-2 (EX) (1) B-1T (EX) (1) MODIFIED R3-4	MA (EX) MA (EX) 3 (EX)	–	–	–	–	
B	STA: 19+50.32 OFF: 66.27' RT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(1) B-8T (EX)	3 (EX)	(EX)	(EX)	(EX)	(EX)	
C	STA: 19+40.42 OFF: 46.72' LT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(1) M-2AS(EX), (2) M-2(EX), (1) B-2T(EX)	MA (EX) MA (EX) MA (EX) 3 (EX)	–	–	–	–	
D	STA: 20+29.94 OFF: 48.65' LT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(2) M-2(EX), (1) B-1T(EX)	MA (EX) MA (EX) 4 (EX)	–	–	–	–	
E	STA: 19+64.87 OFF: 46.26' LT	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	–	–	(EX)	(EX)	(EX)	(EX)	
F	STA: 19+45.24 OFF: 72.38'	XX	H	2	–	1 2	15' 15'	(1) B-8T	3	W-OT	1	RIGHT	2	

* PROPOSED LUMINARIES SHALL CONFORM WITH CURRENT (AS OF THE DATE OF INSPECTION) CITY OF LAS VEGAS STANDARDS & SPECIFICATIONS

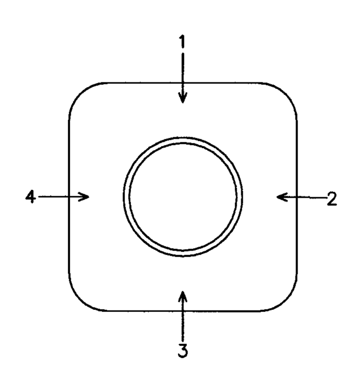
CONDUIT AND WIRE SCHEDULE

WIRE & CABLE	FROM	TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PER NV ENERGY PLAN	RS-19	SERVICE PEDESTAL	○*																			
(4) No. 4 AWG THW, 1-8 SERVICE ENTRANCE	SERVICE PEDESTAL	CONTROLLER		○																		
(1) 25 COND. No. 14, (4) No. 10, (1) No. 8 8281 COAX VIDEO, (3)16 COND. PVC JACKETED OPTICOM CABLE	CONTROLLER	POLE A			○		Φ		Φ	○												
~~(1) 25 COND. No. 14 (4) No. 10, (1) No. 8, (3) No. 16 COND. PVC JACKETED~~	~~CONTROLLER~~	~~POLE B~~			○		Φ	Φ														
(1) 25 COND. No. 14 (1) No. 8 OPTICAL CABLE 8281 COAX VIDEO (4) No. 10 (3) 16 COND. PVC JACKETED	CONTROLLER	POLE C			○	○	CRUSH & ABANDONED	CRUSH & ABANDONED	CRUSH & ABANDONED					CRUSH & ABANDONED			CRUSH & ABANDONED					
(1) 25 COND. No. 14 (1) No. 8 OPTICAL CABLE 8281 COAX VIDEO (2) No. 10 (3) 16 COND. PVC JACKETED	CONTROLLER	POLE D			○		CRUSH & ABANDONED	CRUSH & ABANDONED	CRUSH & ABANDONED		○	○		CRUSH & ABANDONED			CRUSH & ABANDONED					
(1) 15 COND. No. 14 (1) No. 8	CONTROLLER	POLE E			○								○									
PULL STRING & TRACER WIRE, [BY CONTRACTOR]	EX. PULLBOX	CONTROLLER												Φ	○	○	Φ					
(1) No. #8 (2) No. 4	CONTROLLER	STREETLIGHTS			○	○	Φ	Φ	Φ	○	○	○										
(1) 25 COND. No. 14 (1) No. 8 8281 COAX VIDEO (4) No. 10 (3)16 COND. PVC JACKETED OPTICOM CABLE	CONTROLLER	POLE A			●					●								●	●			
(1) 25 COND. No. 14 (1) No. 8 8281 COAX VIDEO (4) No. 10 (3)16 COND. PVC JACKETED OPTICOM CABLE	CONTROLLER	POLE F			●													●				●
FAST WIRING (MATCH EXISTING)																				●	●	
No. OF CONDUITS – CONDUIT SIZE:			(1)-2"	(1)-2"	(4)-3"	(1)-3"	(2)-3"	(1)-3"	(3)-3"	(1)-3"	(2)-3"	(1)-3"	(1)-2"	(1)-4"	(1)-4"	(1)-4"	(1)-4"	(2)-3"	(3)-3"	(1)-4"	(1)-4"	(1)-3"

CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL CONDUITS THAT ARE EMPTY (NO CONDUCTORS/CABLING)
* CONTRACTOR SHALL COORDINATE WITH NV ENERGY TO CONNECT PROPOSED SERVICE PEDESTAL TO SERVICE POINT

○ EXISTING CONDUIT

● PROPOSED CONDUIT



QUADRANT

ARM, SIGNAL, PED BUTTON (TOP VIEW)

	TRAFFIC SIGNAL CONSTRUCTION NOTES
NO	ITEM
1	INSTALL DOUBLE STACKED NO. 5 PULL BOX PER U.S.D. 329 & 706.
2	INSTALL P30 PULL BOX PER U.S.D. 710, 711 & 761.
3	INSTALL TRAFFIC SIGNAL POLE LUMINARIES. PROPOSED LUMINARIES SHALL CONFORM CURRENT (AS OF THE DATE OF INSPECTION) CITY STANDARDS AND SPECIFICATIONS.
4	EXISTING PULL BOX TO REMOVED.
5	EXISTING PULL BOX TO REMAIN, PROTECT IN PLACE.
6	EXISTING TRAFFIC SIGNAL POLE AND EQUIPMENT TO REMAIN, PROTECT IN PLACE
7	CONTRACTOR SHALL COORDINATE WITH CITY TRAFFIC INSPECTOR REGARDING THE REPROGRAMMING OF TRAFFIC SIGNAL VIDEO DETECTION ZONES
8	INSTALL MODIFIED R3-4 (U-TURN PERMITTED)

TRAFFIC SIGNAL EQUIPMENT LEGEND

EXISTING PROPOSED

- CENTERLINE
- RIGHT OF WAY LINE
- STREETLIGHT CONDUIT
- TRAFFIC SIGNAL CONDUIT
- FIBER OPTIC CONDUIT
- SERVICE PEDESTAL
- CONTROLLER CABINET
- TRAFFIC SIGNAL PULL BOX
- FIBER OPTIC P30 PULL BOX
- FIBER OPTIC T200 VAULT
- ILLUMINATED STREET NAME SIGN
- 400W LUMINAIRE
- VIDEO IMAGE DETECTOR
- TRAFFIC SIGN
- SIGNAL POLE AND FOUNDATION
- OPTICOM (ONE-WAY)
- OPTICOM (TWO-WAY)
- PEDESTRIAN SIGNAL HEAD
- STANDARD 3 BULB (12" HEAD) TRAFFIC SIGNAL HEAD WITH BACKPLATE
- STANDARD 3 BULB (12" HEAD)TRAFFIC SIGNAL HEAD WITH DIRECTIONAL ARROW AND BACKPLATE
- STANDARD 4 BULB (12" HEAD)TRAFFIC SIGNAL HEAD WITH DIRECTIONAL ARROW AND BACKPLATE

NOTE

REFER TO SHEET TS1 FOR TRAFFIC SIGNAL PLAN

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17sft. (NAVD 88)

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

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

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

CLV#: 1070 7168

CC#: HTE: 17-41363
CLV#: 67712

CLV TRAFFIC SIGNAL NOTES:

1. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II EFFECTIVE MARCH 30, 2001.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.

   CALL-BEFORE-YOU-OVERHEAD 1-702-593-6111
   CALL-BEFORE-YOU-DIG 1-800-227-2600
   STREETLIGHTS (NEVA EVANS) 1-702-229-6331
   F.A.S.T. (JESUS MARMOLEJO) 1-702-432-5300
3. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS.
4. SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT.
5. LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).
6. LUMINAIRES ON ALL SIGNAL POLES SHALL BE 400 WATT HIGH PRESSURE SODIUM CUTOFF (G.E. M400A) WITH MC-111 DISTRIBUTION. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.
7. THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP.
8. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.
9. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 404.110, NO. 404.120, AND NO. 404.130.
10. TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.
11. PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLARA NAVIGATOR" TYPE (2 WIRE SYSTEM) IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-3e PER MUTCD, 2003 EDITION WITH FULL MOUNTING BRACKETS. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 24". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. No. 235 (1-4) LATEST EDITION.
12. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
13. MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD.
14. INSTALL TYPE VIII CABINET. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS, CLARK COUNTY AREA, NEVADA. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS.
15. THE CONTRACTOR SHALL SUPPLY A 2070N OR M53 CONTROLLER TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP, FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON, FOR TESTING PURPOSES. THE CONTRACTOR SHALL DELIVER THE CONTROLLER TO, AND PICKUP THE CONTROLLER AT 2801 E. CHARLESTON BOULEVARD. CONTRACTOR SHALL NOTIFY THE TRAFFIC SIGNAL REPAIR SHOP (229-6075) SEVEN DAYS PRIOR TO PICK UP. ALL 2070N CONTROLLERS MUST BE COMPATIBLE WITH AND FUNCTION PROPERLY WITH OS9 1996 OPERATION SYSTEM; THE LATEST REVISION OF THE "NEXT PHASE INTERSECTION MANAGEMENT SOFTWARE" (SIEMENS) AND THE ICONS (SIEMENS) GENERAL SOFTWARE.
16. CONTRACTOR SHALL POTHOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.
17. ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE. FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 404.406 SHEET 2. ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES," AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 T.02.09 OF THE SPECIFICATIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.
18. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS TO SECTION 623 OF THE CCA USS. ALL PEDESTRIAN SIGNAL FACES SHALL PROVIDE "WALKING PERSON," "HAND," AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURALIGHT MODEL #JXM-300VIE OR DIALIGHT MODEL #430-6479-801 OR APPROVED EQUAL.
19. VIDEO DETECTION SYSTEMS WILL BE EITHER ITERIS EDGE 2, AUTOSCOPE 2020 OR AUTOSCOPE 2020-V8 WHEN VIDEO DETECTION IS SPECIFIED ON THE TRAFFIC SIGNAL PLANS. ALL VIDEO DETECTION SYSTEMS WILL BE STAND ALONE SYSTEMS TO INCLUDE ALL NECESSARY EQUIPMENT TO PROGRAM THE VIDEO DETECTION SYSTEM. A PROGRAMMING "MOUSE", KEYPAD OR LAPTAOP COMPUTER (IF REQUIRED FOR PROGRAMMING THE VIDEO DETECTION SYSTEM) AND APPROPRIATE SOFTWARE WILL BE SUPPLIED WITH EACH VIDEO SYSTEM. PERSONAL COMPUTERS (PCs) MAY NOT BE SUBSTITUTED FOR LAPTOPS. A VIDEO MONITOR (BLACK AND WHITE OR COLOR) 9" TO 13" WILL BE SUPPLIED WITH EACH VIDEO DETECTION SYSTEM. EACH VIDEO CAMERA WILL HAVE POWER (3#16 CONDUCTORS OR PVC JACKETED) AND 8281 COAXIAL CABLE (SOLID CENTER CONDUCTOR) DIRECTLY FROM THE CABINET. CAMERAS WILL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. "BNC" ARE THE ONLY ACCEPTABLE TERMINATION OF COAXIAL CABLES. EXTENSION BRACKETS (TYPE AB-0166-5-62 OR EQUIVALENT) WILL BE USED WHEN MOUNTING VIDEO CAMERAS ON MAST ARMS. A VIDEO FILTER (CX06-BNYC OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT.
20. LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E OR NEVER-FAIL LOOP SYSTEMS. TWO (2) CHANNEL RACK- MOUNTED DETECTOR AMPLIFIERS SHALL BE INSTALLED IN THE CONTROLLER CABINET WHICH ACCOMMODATE 24 SEPARATE CHANNELS. LOOP LEAD-IN CABLE SHALL BE 6-PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS. ALL WIRING HARNESSES, RACK POSITIONS, AND LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
21. OPTICAL PREEMPTION UNITS WILL BE 3M (ENCODING CAPABLE), MODEL 754 PHASE SELECTOR INSTALLED IN A MODEL 760 CARD RACK; OPTICAL SENSORS WILL BE MODEL 722 AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-138 CABLE.
22. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.
23. INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.
24. THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.
25. WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CONTACT KARL KELLEY, THE TRAFFIC SIGNAL SUPERVISOR, AT 702-229-4086 TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.
26. THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623 G.03.01N OF THE CLV SPECIAL PROVISIONS.

No.	REVISIONS	DATE	BY

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STATE OF NEVADA PROFESSIONAL ENGINEER THEASEA WOLF CIVIL EXP.6-30-16 No. 17819 10.9.17

KHA PROJECT 61153.52 | DATE 10/6/17 | SCALE AS SHOWN | DESIGNED BY MS | DRAWN BY MS | CHECKED BY TA

TRAFFIC SIGNAL PLAN SHEET 2 OF 2

COMMERCIAL SUBDIVISION @ SEC DEER SPRINGS & HUALAPAI

Plotted By: Zito, JaLynn Sheet Set: Kha Layout: TS2 October 06, 2017 09:52:26am W:\61153_LAURICH\DWG\IMPRDWGS\OFFSITE\09-61153-TS1.dwg
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