

SIGNING AND MARKING PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

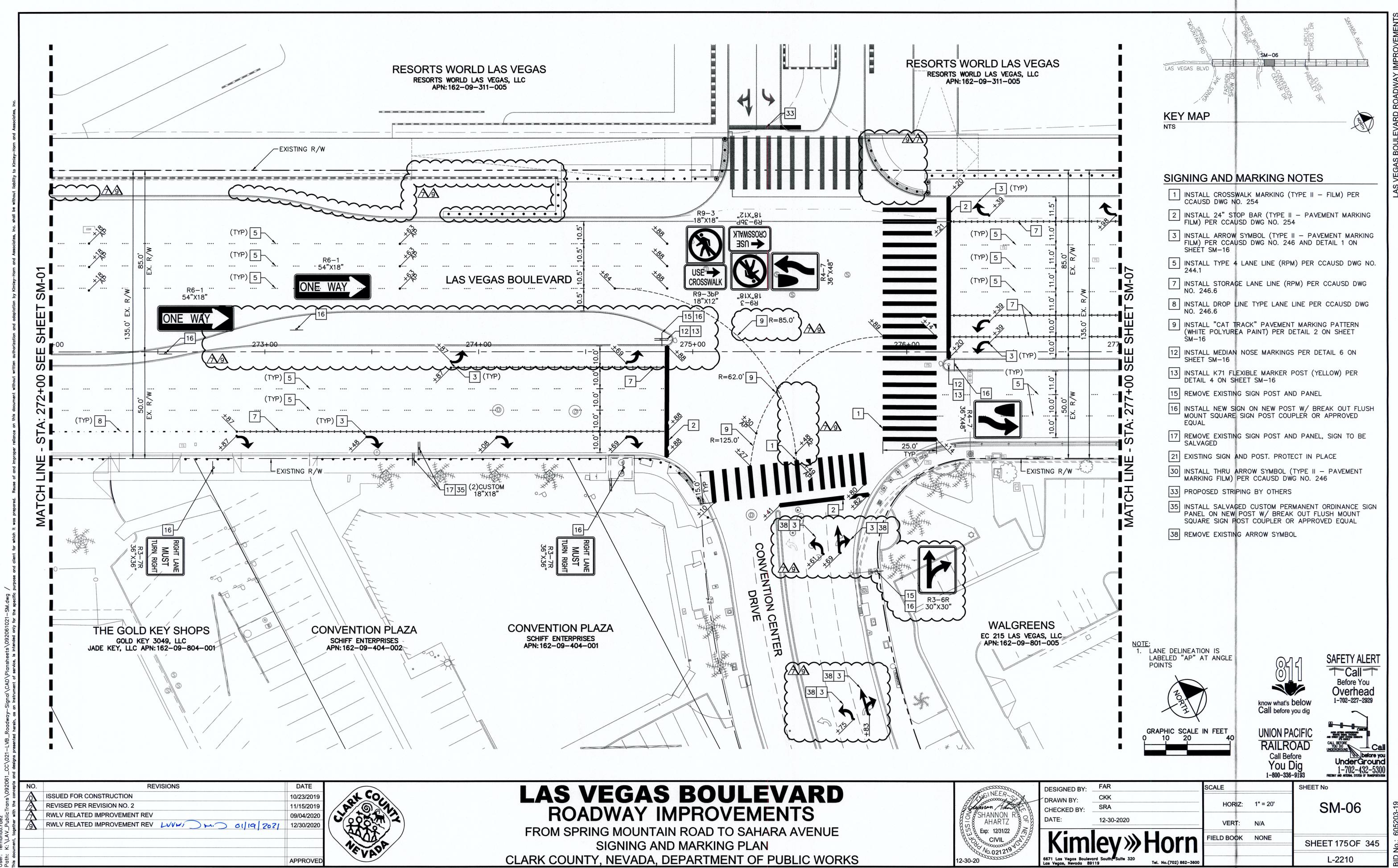
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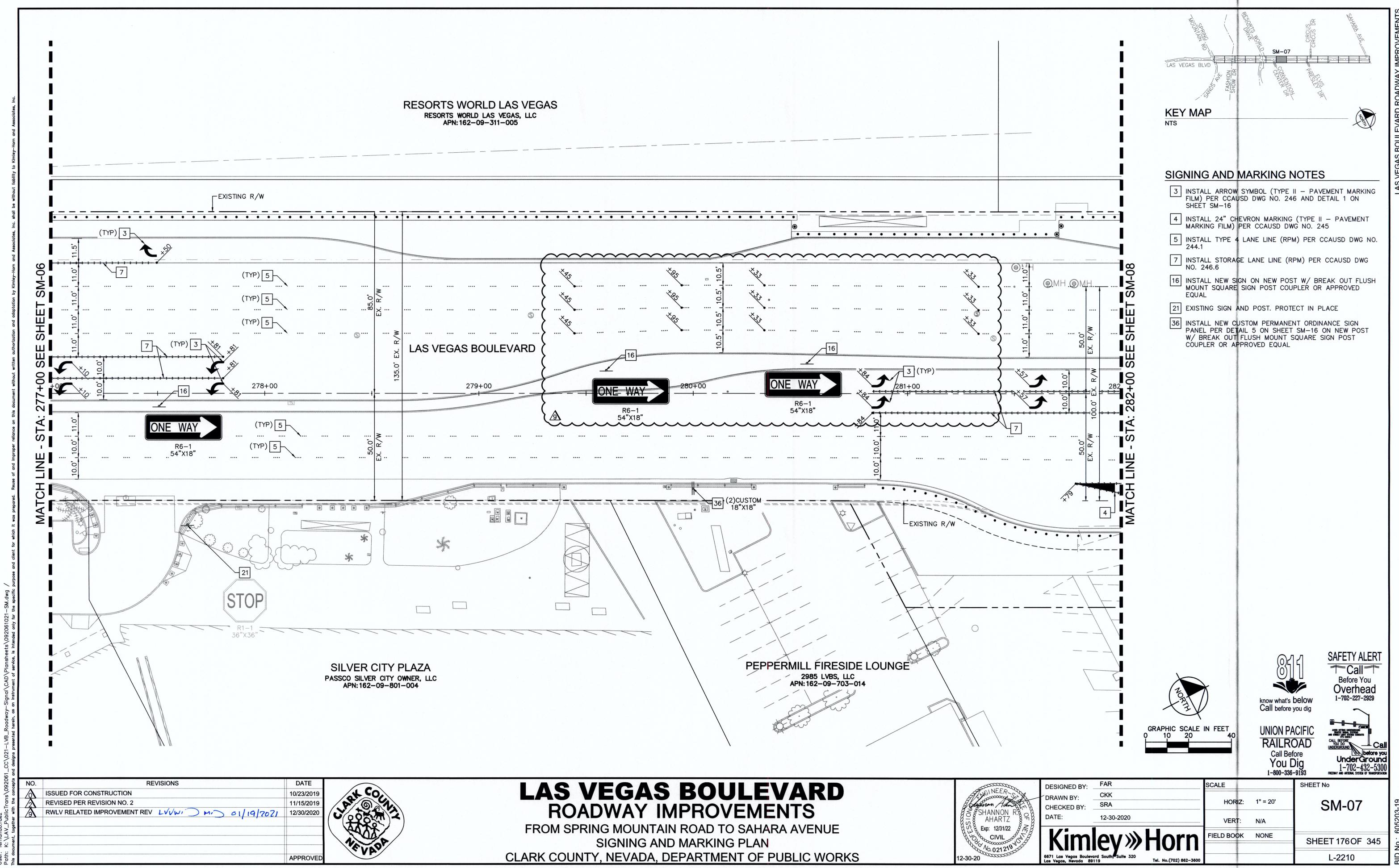
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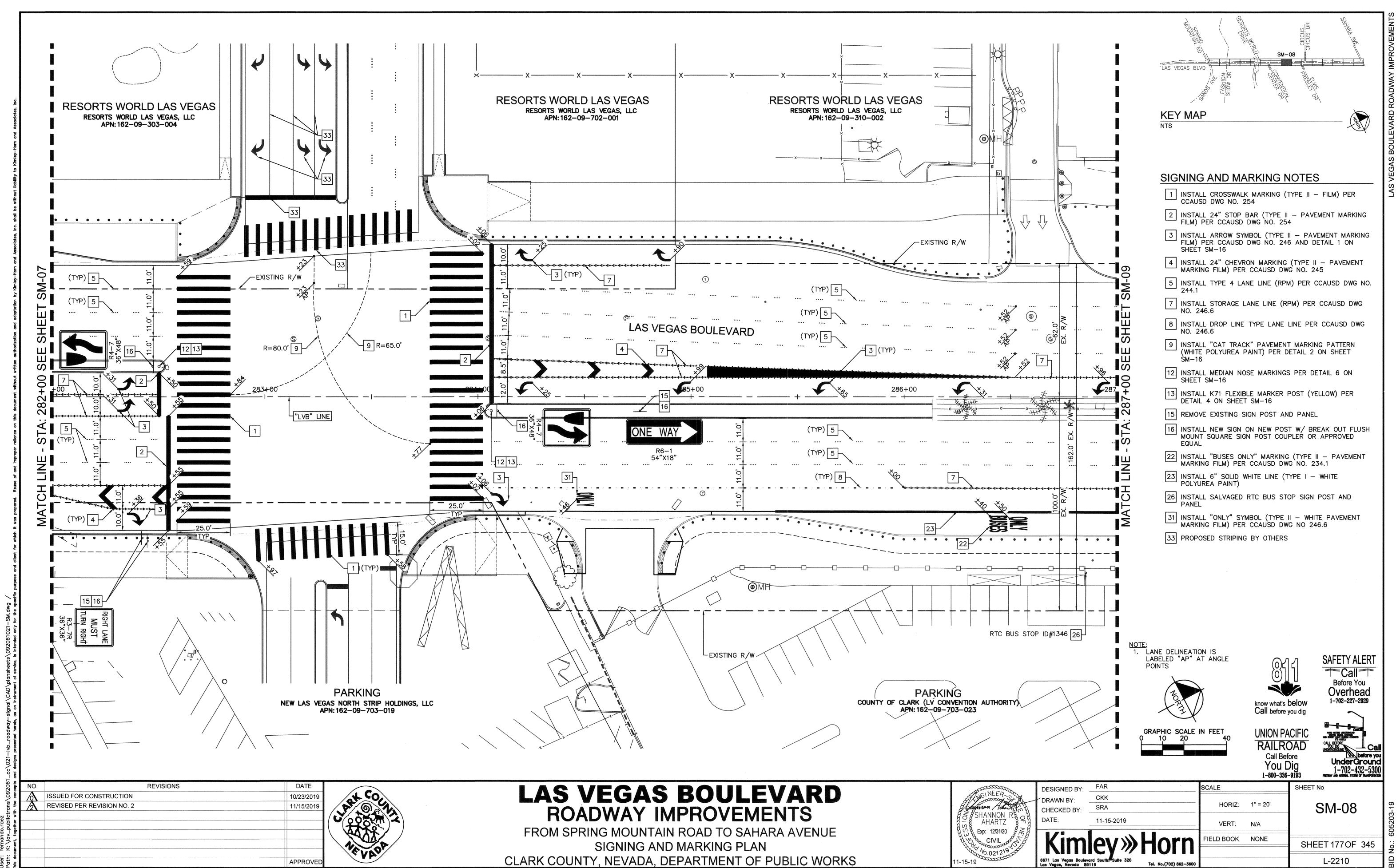
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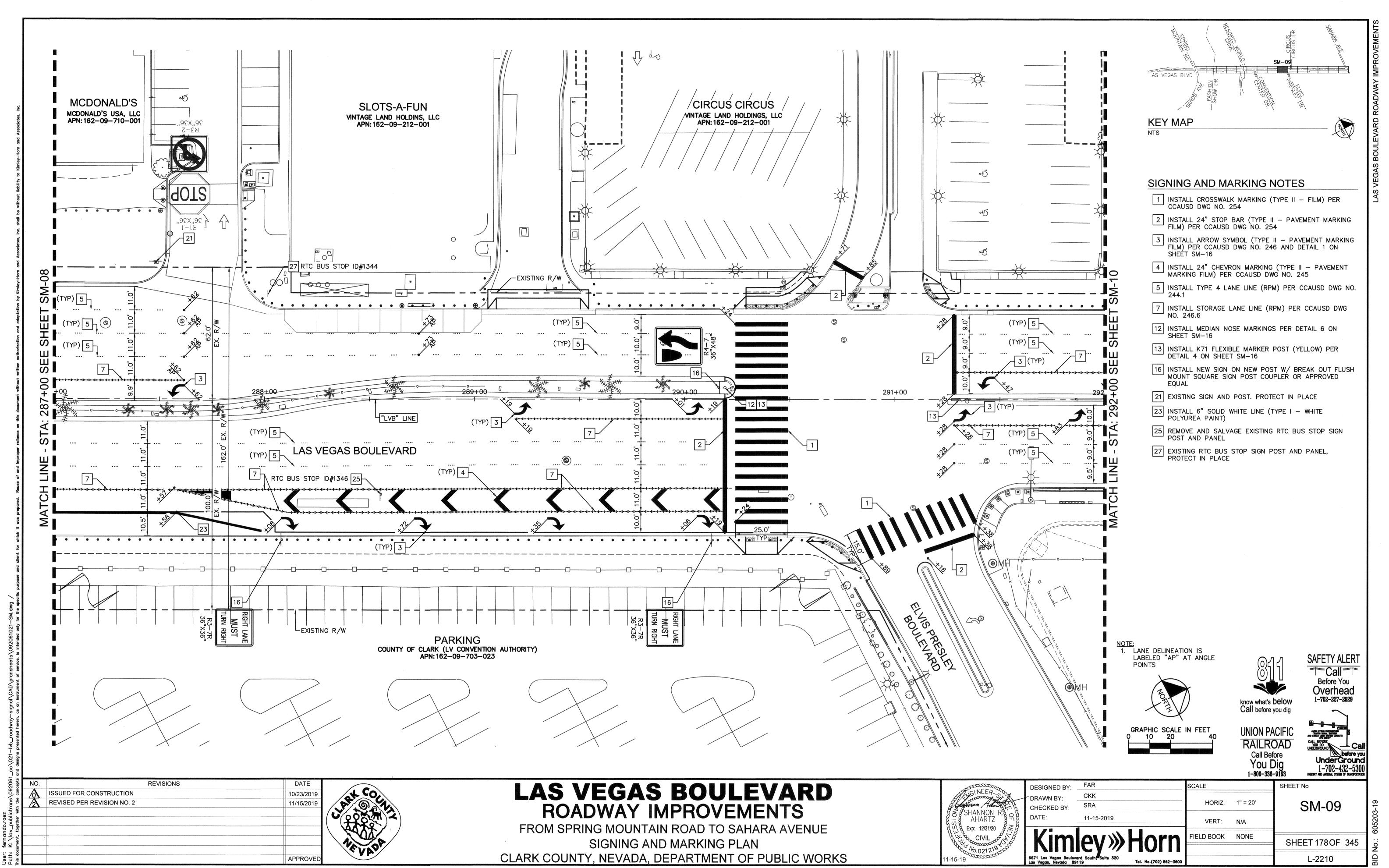
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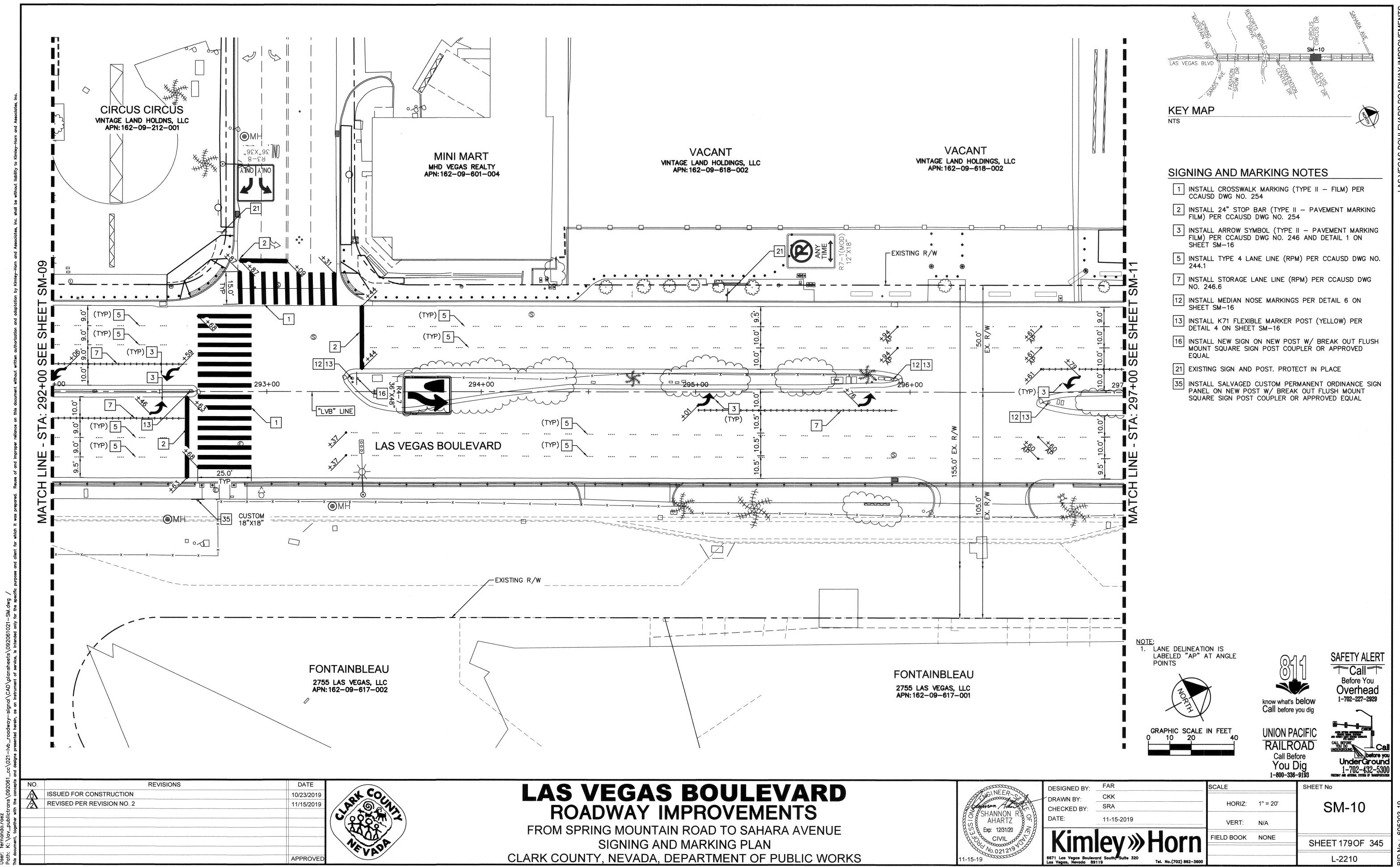
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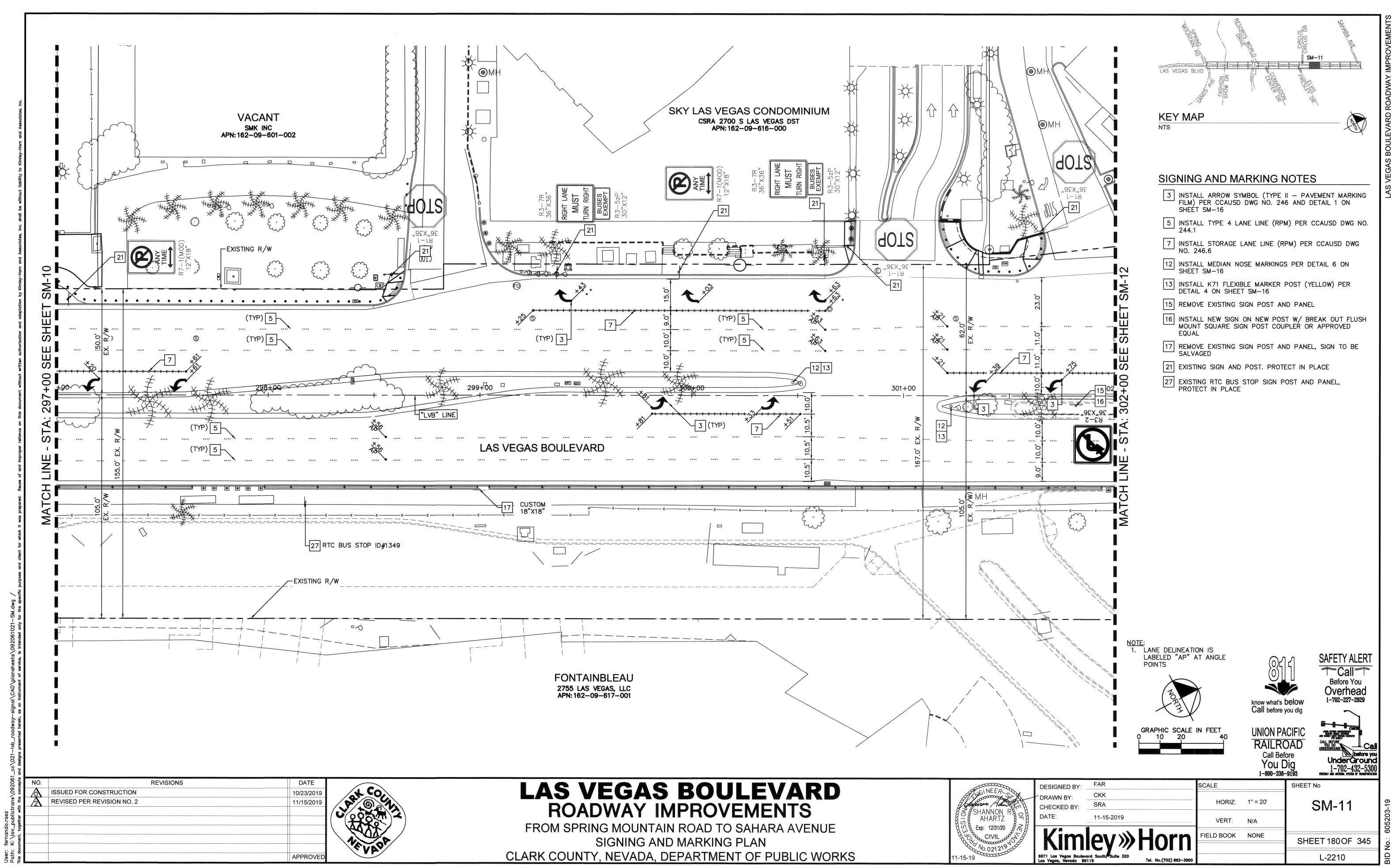


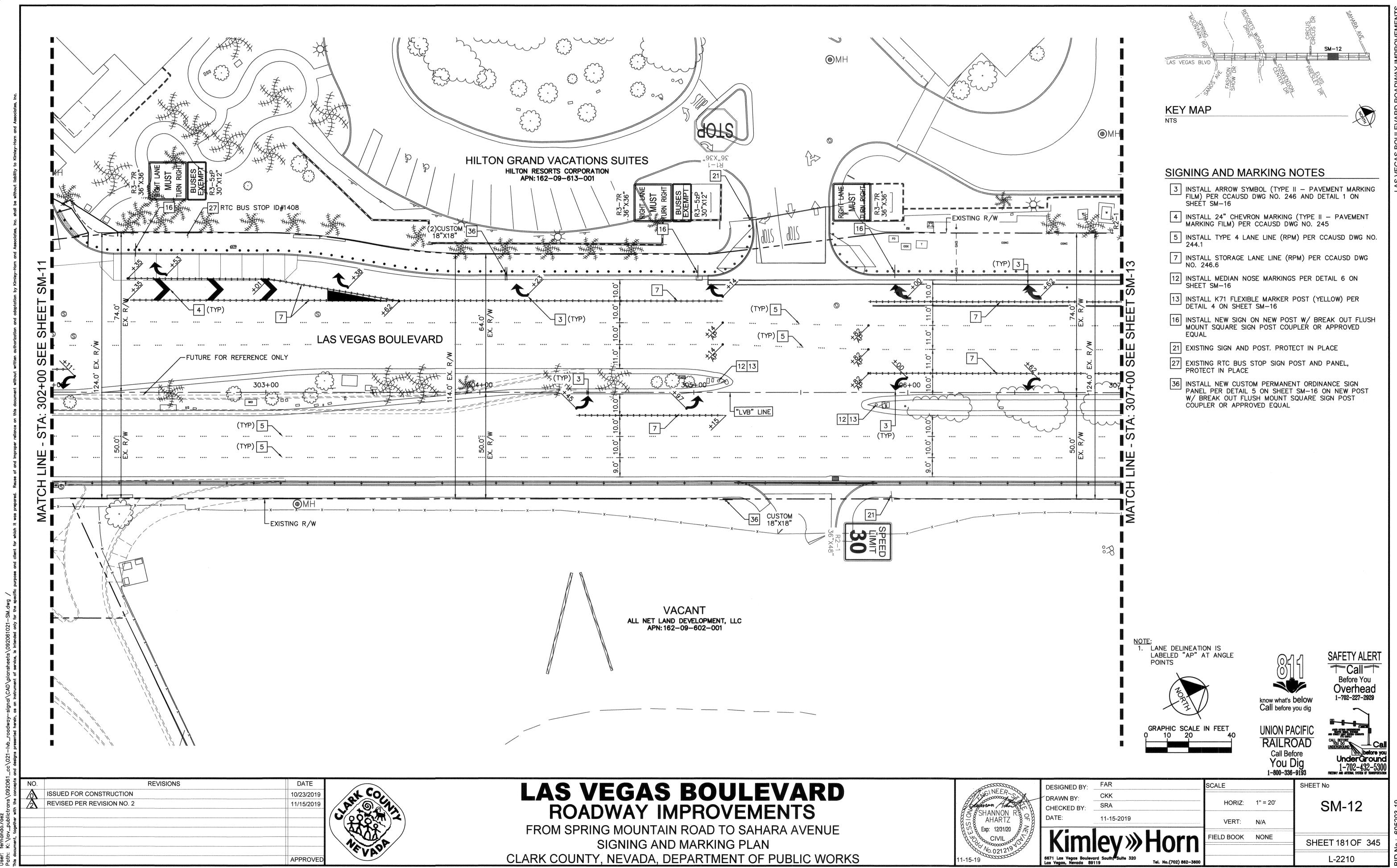


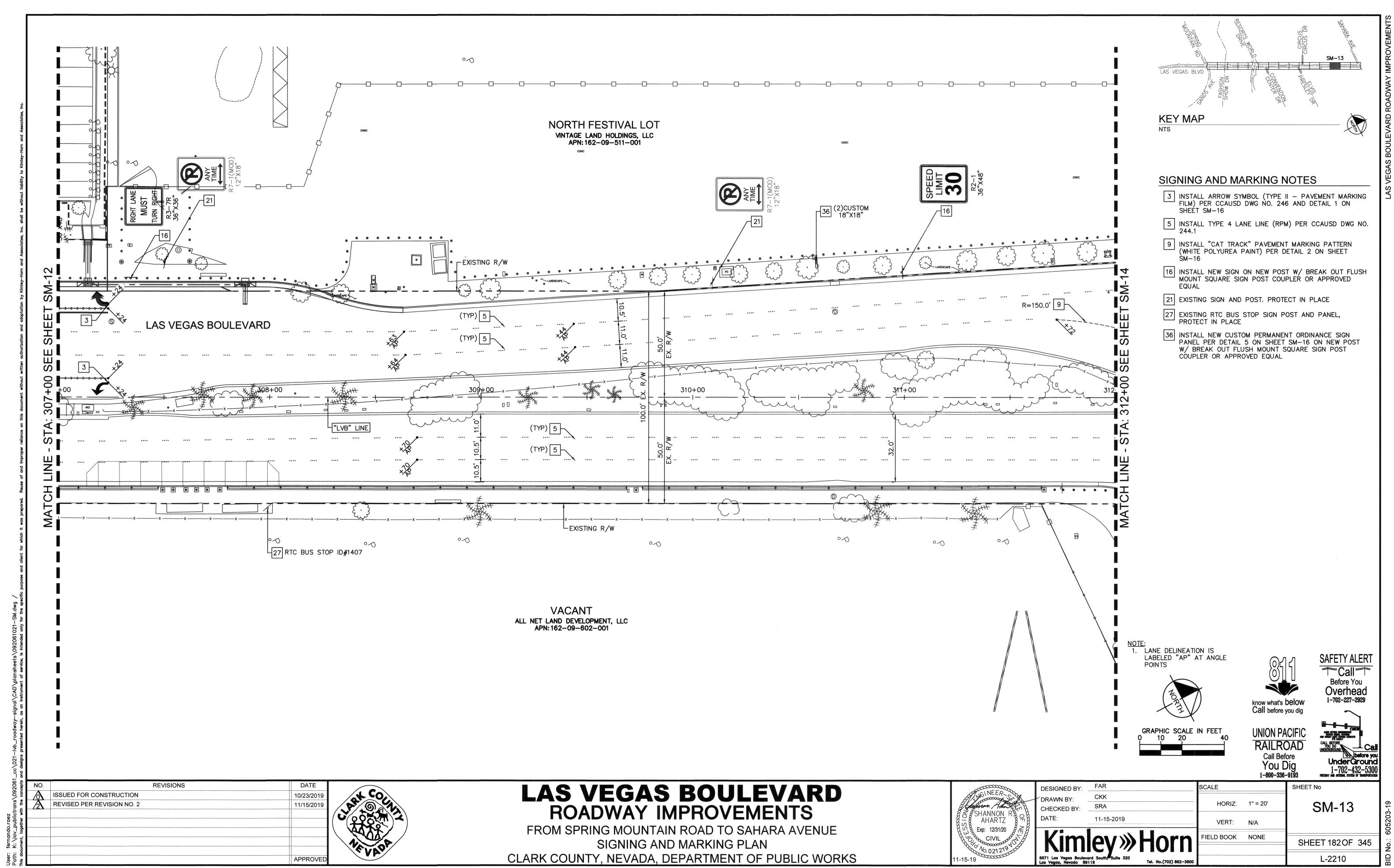


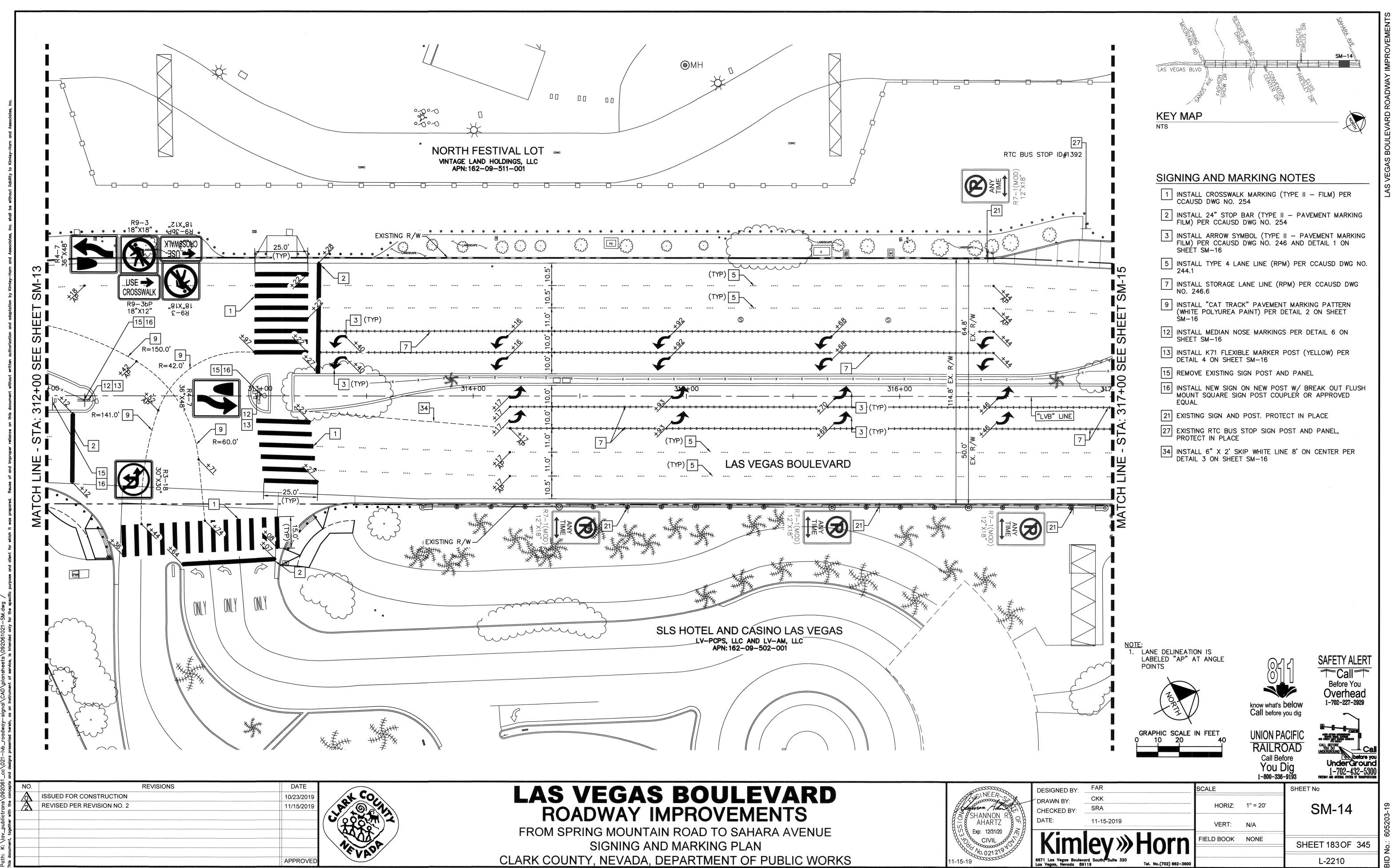


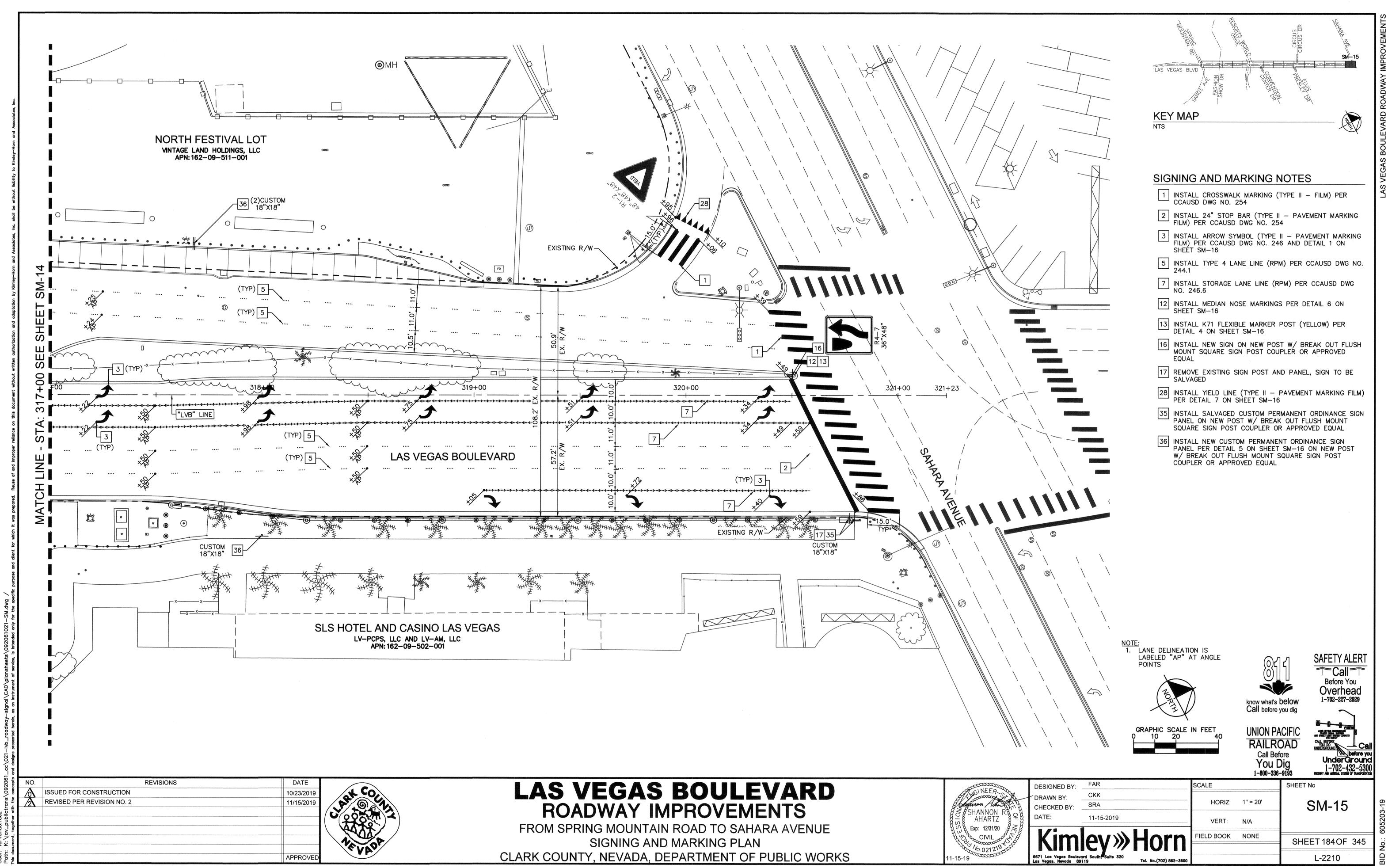


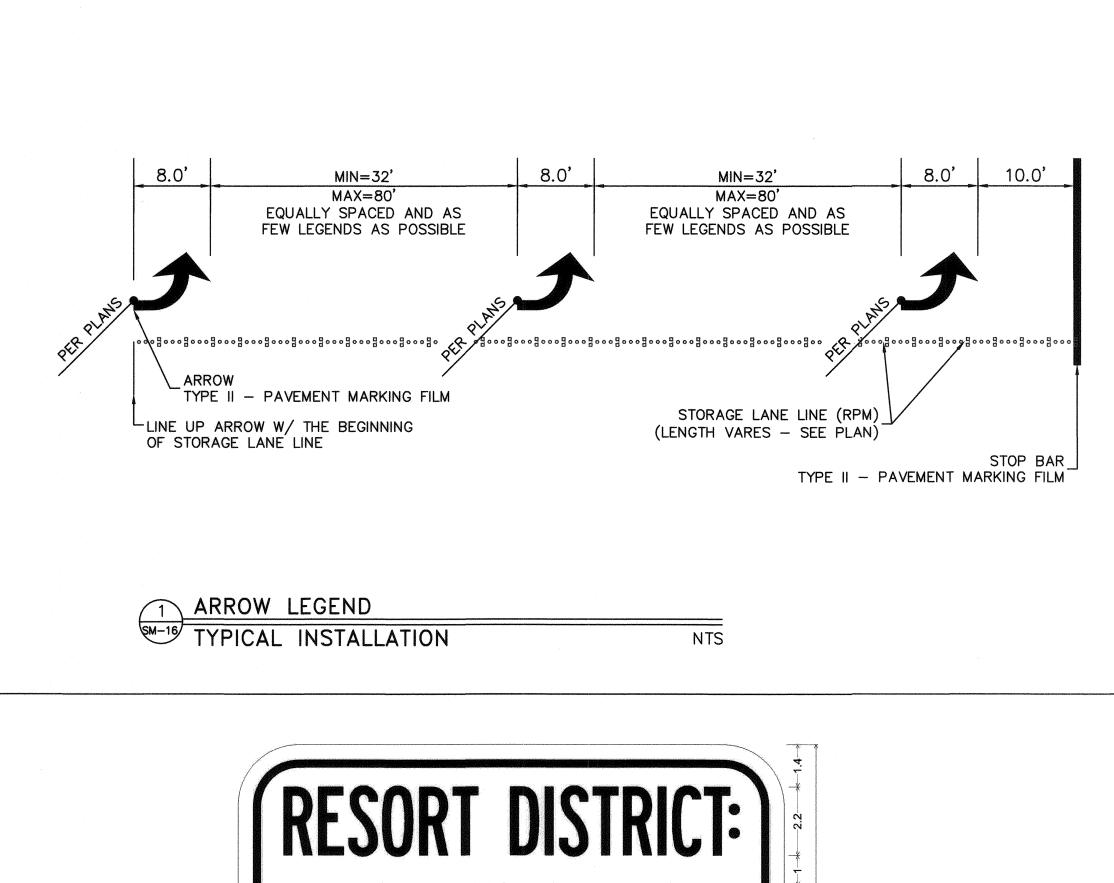


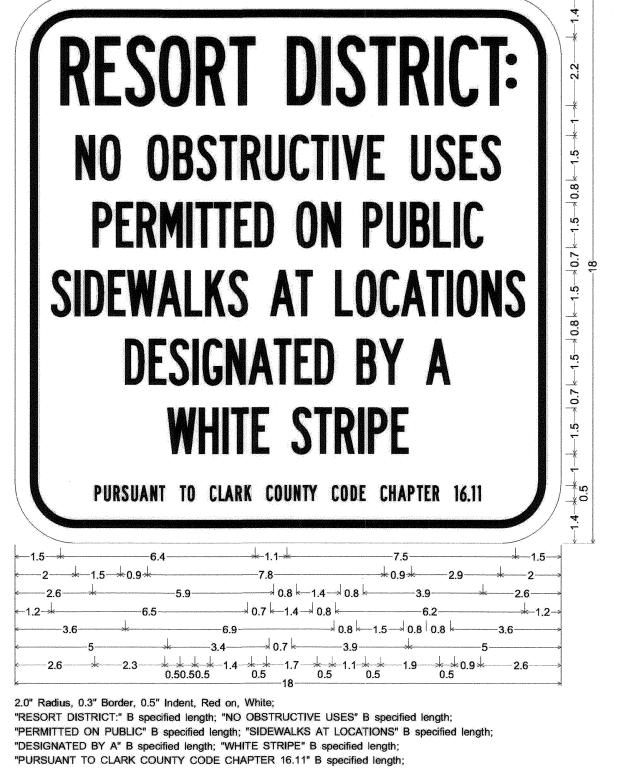






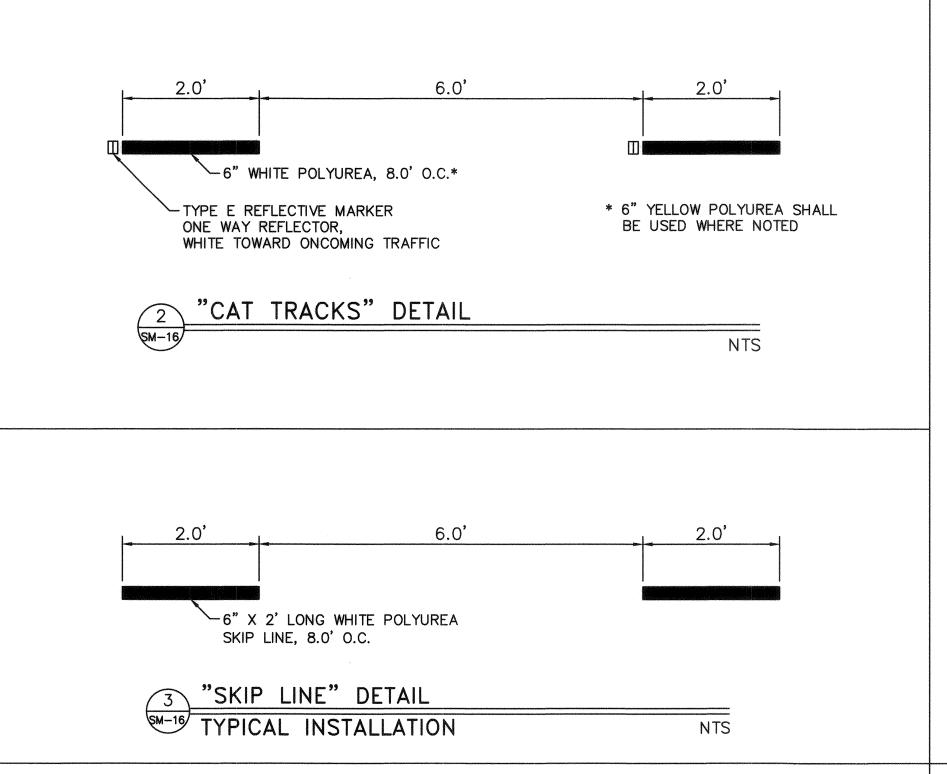


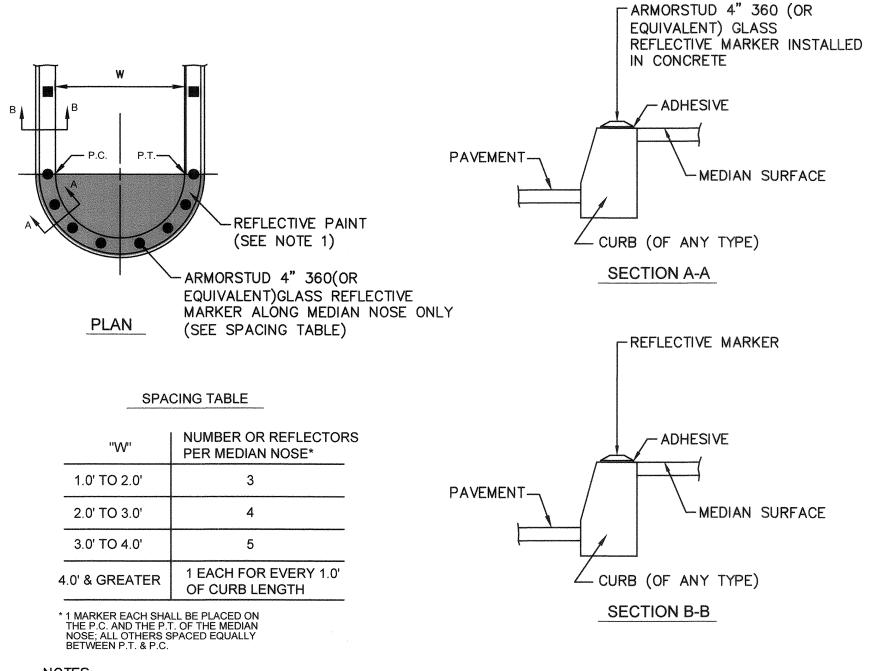




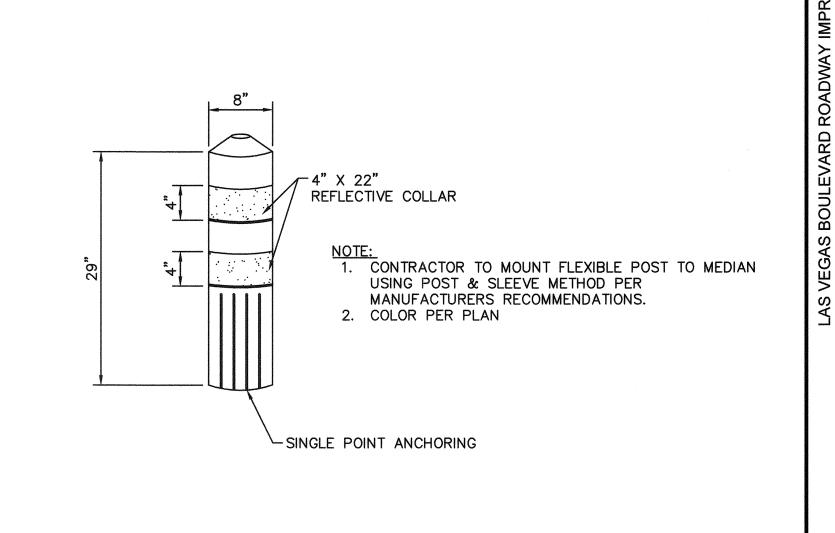
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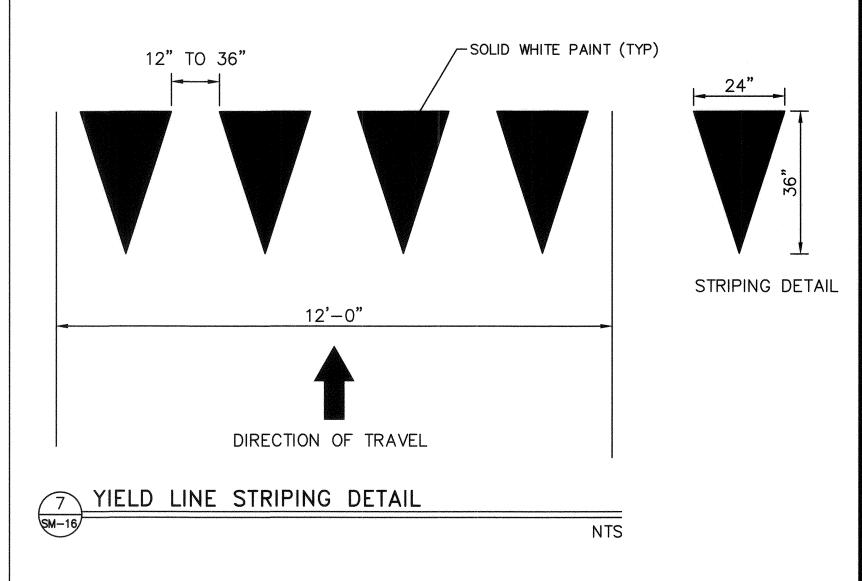




1. ENTIRE MEDIAN SHALL BE PAINTED WITH REFLECTIVE PAINT, OF SAME COLOR AS REFLECTIVE MARKERS, FROM THE MEDIAN NOSE BACK 5 FEET OR TO THE P.C., WHICHEVER IS GREATER. 2. REFLECTIVE PAVEMENT MARKERS USED ON MEDIAN SHALL CONFORM TO STANDARD DRAWING NO. 247. 3. ORIENTATION OF THE REFLECTIVE MARKERS FACES SHALL BE MADE IN THE FIELD TO ENSURE THAT MARKERS ARE AIMED AT APPROACHING VEHICLES TO BEST ADVANTAGE, ESPECIALLY IN HORIZONTALLY CURVED ROAD SECTIONS. 6 MEDIAN NOSE MARKING DETAIL









UNION PACIFIC RAILROAD Call Before You Dig

1-702-227-2929

SAFETY ALERT

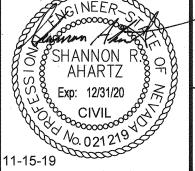
1-800-336-9193 SHEET No SM-16

REVISIONS ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/2019

5 PERMANENT ORDINANCE SIGN

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE SIGNING AND MARKING DETAILS CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



	6671 Las Vegas Bouleve Las Vegas, Nevada 89	ard South, Suite 320 119 Tel. No.(702) 862-3600	
	Kim	ley»Horn	FIELD BOO
	DATE:	11-15-2019	VERT
_	DRAWN BY:	SRA	HORI
	DESIGNED BY:	FAR	SCALE

GENERAL NOTES

- CONTRACTOR SHALL VERIFY SIZE, TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTING SIGNAL POLE FOUNDATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY VARIANCES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR SHALL INSTALL RED MARKING TAPE 18" BELOW GRADE, ABOVE ALL PROPOSED CONDUITS.
- CONTRACTOR SHALL VERIFY ALL UTILITY CONFLICTS AND OBSTACLES PRIOR TO TRENCHING OR DIGGING. 4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO LANDSCAPING, FROM DAMAGE. ALL IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESIDENT ENGINEER AT THE
- EXPENSE OF THE CONTRACTOR. CONTRACTOR TO COORDINATE LOCATIONS OF PROPOSED PULL BOXES TO BE ADJACENT TO SIDEWALK JOINTS AND SCORING PATTERN LINES.
- 6. EXISTING TRAFFIC SIGNALS MUST REMAIN OPERATIONAL AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE UNIFORMED TRAFFIC CONTROL OFFICERS AT ALL TIMES WHEN THE TRAFFIC SIGNAL CANNOT REMAIN OPERATIONAL UNLESS ANOTHER METHOD IS APPROVED BY CLARK COUNTY.
- 7. PULL BOX AND VAULT LOCATIONS AND CONDUIT ROUTING ARE SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION SHALL BE APPROVED IN THE FIELD BY THE RESIDENT ENGINEER.
- 8. CONTRACTOR TO STAKE FOUNDATION LOCATIONS FOR APPROVAL BY RESIDENT ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR TO POTHOLE NEW FOUNDATION LOCATIONS PRIOR TO CONSTRUCTION TO IDENTIFY ALL SUBSURFACE CONFLICTS. IF CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL WORK WITH THE RESIDENT ENGINEER TO DETERMINE AN ALTERNATE FOUNDATION LOCATION.

TRAFFIC SIGNAL NOTES

GENERAL

- THESE NOTES ARE EFFECTIVE AS OF 01/15/15 AND SHALL SUPERSEDE ALL PREVIOUS VERSIONS.
- THE CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SHALL BE IN ACCORDANCE TO THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.
- INSTALLATION OF TRAFFIC SIGNAL COMPONENTS SHALL BE SUPERVISED BY A CERTIFIED IMSA LEVEL II TRAFFIC SIGNAL ELECTRICIAN OR LEVEL II TRAFFIC SIGNAL TECHNICIAN. THIS SHALL INCLUDE THE INSTALLATION OF ALL UNDERGROUND CONDUIT AND CONDUIT BENDS. A CLARK COUNTY-LICENSED JOURNEYMAN ELECTRICIAN SHALL MAKE ALL ELECTRICAL TERMINATIONS. CONTRACTOR PERFORMING WORK ON THE TRAFFIC SIGNAL SHALL HOLD A VALID C-2 ELECTRICAL LICENSE ISSUED BY THE STATE OF NEVADA.
- TWO (2) WEEKS PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL CALL CLARK COUNTY TRAFFIC OPERATIONS AT (702) 455-6000 AND INFORM THE TRAFFIC SYSTEMS SUPERVISOR OF THE WORK START DATE FOR COORDINATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND AND AERIAL UTILITIES AND INFRASTRUCTURES LIKELY TO BE AFFECTED BY THEIR WORK. THE
- LOCATION OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED PROMPTLY IN A MANNER SATISFACTORY TO THE UTILITIES' OWNERS AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ANY DAMAGE OR MODIFICATION TO LANDSCAPE/IRRIGATION TO PRE— CONSTRUCTION CONDITION (MODIFIED LANDSCAPE SHALL BE PAID FOR AS PART OF TRAFFIC SIGNAL LUMP SUM).
- REMOVAL AND REPLACEMENT OF ANY CURB, GUTTER AND SIDEWALK REQUIRED TO INSTALL THE TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE INCLUDED IN THE LUMP SUM COST OF THE TRAFFIC
- CONTRACTOR SHALL RESTORE ALL PAVEMENT MARKINGS DAMAGED DUE TO OR BY CONSTRUCTION OR AS SHOWN ON THE PLANS. THE TRAFFIC SIGNAL SHALL NOT BE ENERGIZED WITHOUT THE PROPER PAVEMENT MARKINGS IN-PLACE.
- ALL STOP SIGNS, STOP AHEAD SIGNS AND/OR FLASHING BEACON ASSEMBLIES OR ANY OTHER TRAFFIC CONTROL DEVICES THAT MAY BE IN CONFLICT WITH THE TRAFFIC SIGNAL SHALL BE REMOVED AT TIME OF TRAFFIC SIGNAL ACTIVATION AND RETURNED TO THE CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD, LAS VEGAS, NEVADA 89122. THE CONTRACTOR SHALL REMOVE SIGN POSTS AND POST ANCHORS AND PATCH HOLES WITH CONCRETE.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL INSTALLED INDUCTION LOOPS AND ENSURING THAT THE FRONT EDGE OF EACH STOP BAR IS LOCATED TWO (2) FEET BEHIND THE FRONT EDGE OF THE INDUCTION LOOP.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL EXISTING INDUCTION LOOPS AND HOME RUNS TO THE PULL BOXES ARE IN OPERATIONAL CONDITION ON THE FIRST DAY OF CONSTRUCTION. ANY LOOPS AND/OR HOME RUNS THAT ARE DAMAGED SHALL BE REPORTED IN WRITING TO THE TRAFFIC MANAGER IMMEDIATELY. AFTER WORK HAS COMMENCED, ANY DAMAGE TO EXISTING LOOPS AND HOME RUNS SHALL BE REPLACED AND/OR REPAIRED AT THE CONTRACTOR'S EXPENSE.
- -11. ANY SIGN TEMPORARILY COVERED ON A MAST ARM SHALL BE MASKED WITH A COVER APPROVED BY THE CLARK COUNTY TRAFFIC MANAGER. TAPE SHALL <u>NOT</u> BE APPLIED TO THE FACE OF ANY SIGN. ANY SIGN THAT HAS HAD TAPE APPLIED TO THE REFLECTIVE SURFACE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 12. ALL MAST ARM MOUNTED SIGNS SHALL BE MOUNTED USING BACK-BRACING STRAPS. STRAPS SHALL BE ALUMINIMUM STRAPS OF A MINIMUM SIZE OF 1/8-INCH THICKNESS X 2-INCH WIDE. BRACKETS SHALL BE 12 GAUGE ZINC PLATED STAINLESS STEEL FLARED LEG BRACKET, WITH 5/16-INCH DIAMETER STAINLESS STEEL THEFT-PROOF BOLT OR STANDARD HEX WASHER FACE BOLT. A FENDER WASHER OF A MINIMUM SIZE OF 1-INCH DIAMETER SHALL BE INSTALLED ON THE FRONT SIDE OF THE SIGN IN ADDITION TO THE NEOPRENE WASHER, AND ALSO BEHIND THE BRACKET STRAP, WITH LOCK AND NUT. SIGNS 24-INCH (WIDTH) OR SMALLER SHALL HAVE A MINIMUM OF ONE (1) STRAP. SIGNS 24-INCH (WIDTH) OR LARGER AND SMALLER THAN 48-INCH (WIDTH) SHALL HAVE A MINIMUM OF TWO (2) STRAPS. SIGNS 48-INCH (WIDTH) OR LARGER SHALL HAVE A MINIMUM OF THREE (3) STRAPS. DOUBLE PANEL SIGNS REQUIRE SPECIAL BRACKET MOUNTING SYSTEM, AND SHALL BE DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN NEVADA. SEE SIGN MOUNTING ILLUSTRATION IN THE UNIFORM STANDARD DRAWINGS FOR ADDITIONAL DETAILS.
- 13. TRAFFIC SIGNAL INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO LOOP DETECTORS, LOOP LEAD-IN CABLES, CONDUITS, CONDUCTORS, AND PULL BOXES MAY HAVE BEEN INSTALLED IN YOUR PROJECT AREA FOR EXISTING AND/OR FUTURE TRAFFIC SIGNAL SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING TRAFFIC SIGNAL INFRASTRUCTURE WITHIN THE PROJECT LIMITS. ANY DAMAGE TO THE TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPLACED AND/OR REPAIRED PROMPTLY IN A MANNER SATISFACTORY TO THE TRAFFIC MANAGER AT THE CONTRACTOR'S EXPENSE.
- CROSSWALKS SHALL BE INSTALLED IN A STRAIGHT LINE, WITH THE CENTER OF CROSSWALK EXTENDING FROM THE MIDPOINT OF A SIDEWALK RAMP TO THE MIDPOINT OF THE OTHER SIDEWALK RAMP. ANGLE POINTS ARE NOT PERMITTED.
- CONTRACTOR SHALL EXERCISE CARE WITH ALL SALVAGED ITEMS AND SHALL ASSUME THAT ITEMS WILL BE RE-USED AGAIN BY CLARK COUNTY. ALL SALVAGED TRAFFIC SIGNAL POLES SHALL INCLUDE LUMINAIRE ARMS, LUMINAIRES, MAST ARMS, AND SIGNAL HEADS DISASSEMBLED FROM THE POLE AND LAMPS REMOVED AND DISPOSED OF PROPERLY. ALL SALVAGED STREETLIGHT POLES SHALL INCLUDE LUMINAIRE ARMS AND LUMINAIRES DISASSEMBLED FROM THE POLE, AND LAMPS REMOVED AND DISPOSED OF PROPERLY. ALL SALVAGED EQUIPMENT SHALL HAVE ALL COMPONENTS INCLUDED AND DISASSEMBLED FROM THEIR MAIN COMPONENTS. SALVAGED SIGNS THAT ARE ATTACHED TO SALVAGED SIGN POSTS, MAST ARMS OR SIGNAL POLES SHALL BE DISASSEMBLED AND SEPARATED FROM THE SIGN POSTS, MAST ARMS OR SIGNAL POLES PRIOR TO DELIVERY. 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 A 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.
- CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION. WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO (RTC/FAST MANAGER TRAFFIC SYSTEMS MAINTENANCE) AT 702-604-7078 CELL OR 702-432-5300 GENERAL.
- 17. IF ANY EXISTING FIBER OPTIC CABLE IS TO BE CUT OR SPLICED, ALONG OR ADJACENT TO THE PROJECT LIMITS, THE CONTRACTOR IS TO CONTACT MR. JESUS "CHUY" MARMOLEJO
- TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN COORDINATION. 18. ITS SYSTEM MUST REMAIN OPERATIONAL AT ALL TIMES. ANY TEMPORARY RELOCATIONS WILL NEED TO BE PROVIDED AND FAST APPROVAL TWO (2) WEEKS IN ADVANCE FOR SYSTEM
- SHUTDOWN/TRANSFER COORDINATION.

CONDUITS / PULL BOXES / CABLES

TRAFFIC OPERATIONS.

- 100. F.A.S.T. INTERCONNECT CABLE POLICY IS IN EFFECT. INTERCONNECT CABLE MUST BE MAINTAINED AT ALL TIMES. DEVELOPER OR CONTRACTOR SHALL PROVIDE TEMPORARY OVERHEAD INTERCONNECT CABLE WHILE PERMANENT CABLE IS BEING RELOCATED OR REPAIRED. THE TEMPORARY AERIAL INSTALLATION MUST BE ACCEPTABLE TO CLARK COUNTY TRAFFIC MANAGEMENT AND TO F.A.S.T. ANY DAMAGE TO ANY INTERCONNECT CABLE IS DEEMED AN EMERGENCY BY CLARK COUNTY, F.A.S.T., CITY OF LAS VEGAS, CITY OF NORTH LAS VEGAS, CITY OF HENDERSON, AND NDOT AND MUST BE REPORTED AND REPAIRED IMMEDIATELY TO F.A.S.T. ACCEPTANCE
- DAMAGES MAY BE ASSESSED AGAINST THE CONTRACTOR AFTER 24 HOURS HAS ELAPSED FROM THE TIME OF BREAK OR DAMAGE. \$2,500 PER DAY FOR DAMAGE TO COPPER WIRED INTERCONNECT CABLE AND \$7,500 PER DAY FOR DAMAGE TO FIBER OPTIC CABLE.
- 102. ALL SIGNAL CABLE SHALL CONFORM TO I.M.S.A. #20-1 AND SHALL BE A 25 CONDUCTOR CABLE. ALL CABLES SHALL BE INSTALLED FROM TERMINAL TO TERMINAL WITHOUT SPLICING.
- 103. SIX (6) SINGLE CONDUCTOR UF WIRES SHALL BE PROVIDED FROM ALL EMPTY TENONS TO THE "J" BOX ON THE MAST ARM POLE. EACH WIRE SHALL BE A DIFFERENT COLOR. 104. ALL EMPTY TRAFFIC SIGNAL OR STREET LIGHTING CONDUITS SHALL HAVE A #8 AWG THW-2 OR XHHW-2 GREEN CONDUCTOR RUN FROM PULL BOX TO PULL BOX.
- 105. ALL INTERCONNECT / I.T.S. CONDUITS SHALL HAVE A 6-PAIR PE-39 #22 AWG TWISTED WIRE PAIR CABLE, WITH PULL STRING, CABLE IN EACH CONDUIT RUN BETWEEN EACH PULL BOX OR SPLICE VAULT.
- 106. EACH CONDUCTOR OR LOOP CABLE SHALL HAVE A MINIMUM OF TWO (2) FEET OF COILED SLACK WIRE IN EACH PULL BOX THE CONDUCTOR GOES THROUGH OR TERMINATES WITHIN.
- 107. OPTICOM CABLE SHALL BE 3 PAIR NO. 20, GLOBAL TRAFFIC TECHNOLOGIES (GTT) MODEL 138. ALL CABLES SHALL BE RUN FROM TERMINAL TO TERMINAL WITHOUT SPLICING. 108. ONE #8 GREEN CONDUCTOR SHALL BE RUN FROM THE CONTROLLER TO ALL POLES AND PULL BOXES AS A BONDING GROUND. ALL PROPOSED CONDUITS SHALL HAVE A #8 AWG GREEN
- THW-2 OR XHHW-2 CONDUCTOR INSTALLED. 109. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GROUNDING THE COMPLETE TRAFFIC SIGNAL ELECTRICAL SYSTEM INCLUDING ALL EXISTING POLES, CABINETS, SERVICE PEDESTALS, PULL BOXES
- AND ELECTRICAL DEVICES IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND THE UNIFORM STANDARD DRAWINGS. 110. ALL EXISTING TRAFFIC SIGNAL RELATED NO. 3-1/2, NO. 5, AND NO. 7 METAL PULL BOX COVERS SHALL BE REPLACED WITH A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE

LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "TRAFFIC SIGNAL". ALL EXISTING METAL PULL BOX COVERS SHALL BE SALVAGED AND DELIVERED TO CLARK COUNTY

COUNTY TRAFFIC OPERATIONS. 112. ALL EXISTING STREET LIGHTING RELATED METAL PULL BOX COVERS SHALL BE REPLACED WITH A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER

111. ALL EXISTING TRAFFIC SIGNAL INTERCONNECT RELATED METAL P30 PULL BOX COVERS SHALL BE REPLACED WITH A HEAVY DUTY, SOLID (FULL DEPTH WITH NO VOIDS UNDER THE

LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED "FIBER OPTIC". ALL EXISTING METAL PULL BOX COVERS SHALL BE SALVAGED AND DELIVERED TO CLARK

- REINFORCED NON-CONDUCTIVE COVER MARKED "STREET LIGHTING". ALL EXISTING METAL PULL BOX COVERS SHALL BE SALVAGED AND DELIVERED TO CLARK COUNTY TRAFFIC
- 113. ALL NEW PULL BOX ASSEMBLIES (BOX WITH COVER SECURELY ATTACHED) SHALL BE DESIGNED FOR A VERTICAL STATIC LOAD OF 16,000 POUNDS APPLIED WITH A 1.3 SAFETY FACTOR. A VERTICAL TEST LOAD OF 20,800 POUNDS APPLIED TO A 10-INCHX10-INCH STEEL PLATE CENTERED ON THE COVER'S SURFACE SHALL NOT CAUSE FAILURE ON ANY
- PART OF THE ASSEMBLY. 114. MANUFACTURER'S CERTIFIED TEST RESULTS, SHOWING COMPLIANCE WITH SPECIFIED DESIGN LOADS AND SAFETY FACTORS ALONG WITH A PHYSICAL DESCRIPTION OF THE TESTING METHODS USED TO ACHIEVE THOSE RESULTS, WILL BE REQUIRED FOR EACH TYPE OF PULL BOX BEING FURNISHED. TEST RESULTS SHALL SHOW THE PROJECT NUMBER, CONTROL
- NUMBER, AND PROJECT LOCATION AND SHALL BE SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE FIRM MANUFACTURING THE PULL BOX. 115. ALL NEW TRAFFIC SIGNAL RELATED PULL BOXES SHALL BE CONCRETE AND HAVE A COVER MARKED "TRAFFIC SIGNAL". THE COVER SHALL BE A HEAVY DUTY, SOLID (FULL DEPTH
- WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER, WHICH CAN WITHSTAND THE STATIC LOADS AS REQUIRED ABOVE. 116. ALL NEW INTERCONNECT RELATED P30 PULL BOX SHALL BE POLYMER CONCRETE AND HAVE A COVER MARKED "FIBER OPTIC". THE COVER SHALL BE A HEAVY DUTY, SOLID (FULL
- DEPTH WITH NO VOIDS UNDER THE LID), RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER, WHICH CAN WITHSTAND THE STATIC LOADS AS REQUIRED ABOVE. 117. ALL NEW INTERCONNECT RELATED T200 PULL BOX SHALL BE CONCRETE AND HAVE AN ADJUSTABLE TORSION SPRING ASSISTED METAL COVER MARKED "FIBER OPTIC". THE PULL
- BOX ASSEMBLY SHALL HAVE A DESIGN LOAD OF H-20 WHEEL LOADINGS. PULL BOX COVER SHALL BE GROUNDED PER THE PULL BOX COVER BONDING DETAIL. 118. ALL NEW STREET LIGHTING PULL BOXES SHALL BE CONCRETE AND HAVE A COVER MARKED "STREET LIGHTING". THE COVER SHALL BE A HEAVY DUTY, SOLID, RESIN POLYMER
- REINFORCED NON-CONDUCTIVE COVER, WHICH CAN WITHSTAND THE STATIC LOADS AS REQUIRED ABOVE.
- 119. FOR NEW CONSTRUCTION, TRAFFIC SIGNAL RELATED PULL BOXES SHALL BE OF MONOLITHIC CONCRETE CONSTRUCTION.
- 120. WHERE DOUBLE STACKED NO. 7 PULL BOXES ARE CALLED FOR ON THE PLANS, THE CONTRACTOR SHALL USE A 12-INCH DEEP PRECAST REINFORCED CONCRETE BODY WITH A PRECAST REINFORCED CONCRETE EXTENSION AS SHOWN IN THE UNIFORM STANDARD DRAWINGS. CONTRACTOR SHALL USE GROUT TO FILL IN ANY GAPS BETWEEN THE PULL BOX AND THE PULL BOX EXTENSION. SPACERS SUCH AS ROCKS, CINDER BLOCKS AND WOOD PIECES SHALL NOT BE USED BETWEEN THE PULL BOX AND THE PULL BOX EXTENSION.
- 121. CONDUIT ROUTING AND PULL BOX LOCATION ARE SCHEMATIC FOR THE PURPOSE OF CLARITY AND MAY DIFFER FROM ACTUAL INSTALLATION. FINAL LOCATION OF PULL BOXES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 122. PULL BOXES SHALL NOT BE INSTALLED WITHIN SIDEWALK RAMPS OR WITHIN ANY DRIVEWAY. PULL BOXES SHALL NOT BE INSTALLED WITHIN THE ROADWAY, SHOULDER, NOR BIKE 123. ALL CONDUIT BENDS FOR TRAFFIC SIGNALS TERMINATING IN PULL BOXES, VAULTS, TRAFFIC SIGNAL POLES AND TRAFFIC CONTROLLER CABINETS SHALL BE PVC COATED RIGID STEEL
- UNLESS THE CONDUIT RUN IS SHORTER THAN THREE HUNDRED (300) FEET. 124. TRAFFIC SIGNAL AND STREET LIGHTING CONDUIT BENDS SHALL HAVE A 18 -INCH MINIMUM RADIUS.
- 125. INTERCONNECT CONDUITS BENDS SHALL HAVE A 24-INCH MINIMUM RADIUS.
- 126. ALL CONDUITS SHALL EXTEND A MINIMUM OF SIX (6) INCHES ABOVE THE GROUND LEVEL OF THE BOTTOM OF A PULL BOX. 127. ALL PULL BOX COVERS SHALL HAVE A MINIMUM SIX (6) INCH CLEARANCE FROM ANY CONDUIT.
- 128. ALL CONDUIT OPENINGS SHALL BE SEALED WITH DUCT SEAL OR APPROVED EQUIVALENT. ALL ELECTRICAL CONDUIT, FITTINGS, AND COUPLINGS SHALL BE JOINED TOGETHER PER THE
- CURRENT NATIONAL ELECTRICAL CODE. 129. CONTRACTOR SHALL SUPPLY AND INSTALL THW-2 OR XHHW-2 WIRE IN LIEU OF THW WIRE AT LOCATIONS WHERE THW WIRE IS SPECIFIED IN THE STANDARD DRAWING.

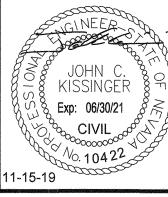
- 200. IF LOOP DETECTORS ARE TO BE INSTALLED FOR THE TRAFFIC SIGNAL SYSTEM, CONTRACTOR SHALL FURNISH AND INSTALL FIVE (5) 4—CHANNEL DETECTION LOOP AMPLIFIERS, AND FOUR (4) SINGLE-CHANNEL LOOP AMPLIFIERS CAPABLE OF EXTENSION/DELAY TIMING.
- ALL LOOP LEAD-IN CABLE SHALL BE 1 PAIR NO. 12 AWG, TINNED COPPER, 19 STRANDS EACH PER IMSA SPECIFICATION 50-2. 202. LOOP WIRE OTHER THAN PRE-FORMED LOOPS FOR INSTALLATION IN SAW CUTS SHALL MEET IMSA SPECIFICATION 51-5. IT SHALL BE SINGLE CONDUCTOR NO. 14 AWG, COPPER WIRE WITH 19 STRANDS. THE INSULATION SHALL BE 15 MILS OF ORANGE PVC COMPLYING WITH UL 62 WITH AN OVERALL JACKET OF CLEAR NYLON IN ACCORDANCE WITH ASTM
- 203. INDUCTION LOOP WIRES FROM THE PULL BOX TO THE INDUCTION LOOPS SHALL NOT BE INSTALLED IN AREAS WHERE FUTURE LOOPS MAY BE INSTALLED.
- 204. ALL NEW OR REPLACEMENT INDUCTION LOOPS SHALL BE INSTALLED (AS SHOWN ON THE PLANS) USING CABLE-IN-DUCT WIRING OR PRE-FORMED LOOPS AND SHALL HAVE INDEPENDENT LEAD-IN CABLE TO THE CONTROLLER CABINET FOR EACH LEFT TURN, STRAIGHT THROUGH AND RIGHT TURN LANES. ADVANCED LOOPS SHALL HAVE ONE LEAD-IN CABLE PER APPROACH, AND NOT PER LANE. EACH LEAD-IN SHALL BE INDIVIDUALLY TAGGED.
- 205. THE INDUCTION LOOP WIRES SHALL BE SOLDERED AND SEALED TO THE LOOP LEAD-IN WIRES. 206. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A VEHICLE VIDEO DETECTION SYSTEM WHICH SHALL BE ECONOLITE AUTOSCOPE RACK VISION, ITERIS EDGE 2 OR PEEK VIDEOTRAK IQ. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT AND INSTALL ALL VIDEO EQUIPMENT ON THE TOP SHELF IN
- CONTROLLER CABINET. CONTRACTOR SHALL MOUNT CAMERAS ON THE TRAFFIC SIGNAL MAST ARM OR LUMINAIRE ARM USING A PELCO ATTACHMENT CONSISTING OF AN ASTRO BRACKET WITH A SIX (6) FOOT RISER. THE LOCATION OF THE CAMERA SHALL BE PLACED AT THE LOCATIONS AS SHOWN ON PLANS. CAMERAS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. 207. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A VIDEO DETECTION SYSTEM WHICH SHALL HAVE THE CAPABILITY OF SENSING A VEHICLE ANYWHERE WITHIN THE "MINIMUM LIMITS OF DETECTION ZONE". ONE (1) COAXIAL CABLE AND THREE (3) - #10 THW-2 OR XHHW-2 (BLUE, WHITE AND GREEN) SHALL RUN FROM THE CONTROLLER CABINET TO EACH CAMERA. COAXIAL CABLE SHÀLL BE BELDEN 8281 WITH A BNC CONNECTOR AT EACH END. THE CAMERA COAXIAL CABLE SHALL
- RUN FROM THE VPU TO THE TRAFFIC SIGNAL POLE HAND HOLE, WITHOUT A SPLICE. THE CONTRACTOR SHALL PROVIDE SIX (6) FEET COAXIAL CABLE SLACK ON THE CAMERA SIDE OF THE COAXIAL CABLE RUN. WHERE POSSIBLE, THE CONTRACTOR SHALL SEPARATE SIGNAL CABLE FROM OPTICOM AND DETECTOR CABLE IN CONDUIT RUNS. 208. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A WAVETRONIX ADVANCE DETECTOR SYSTEM COMPLETE, IN-PLACE AND OPERATIONAL. THE CONTRACTOR SHALL PROVIDE A WAVETRONIX SMARTSENSOR ADVANCE MODEL 200 DETECTOR AT EACH LOCATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE, AS PART OF THE EQUIPMENT, A DIN RAIL WITH WAVETRONIX "CLICK" MODULES (POWER CONVERTER, SURGE PROTECTION AND CONTACT CLOSURES). THE CONTRACTOR SHALL PROVIDE ALL CABLING AND WIRING PER MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE, SETUP AND INSTALL ALL VENDOR OPERATIONAL
- SOFTWARE REQUIRED FOR THE DIFFERENT SYSTEMS IDENTIFIED ON THESE PLANS. 209. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS, THE CONTRACTOR SHALL FURNISH AND INSTALL A RADAR DETECTION SYSTEM WHICH SHALL HAVE THE CAPABILITY OF SENSING A VEHICLE ANYWHERE WITHIN ONE HUNDRED (100) FEET OF SENSOR TO THREE HUNDRED AND SIXTY (360) FEET IN ADVANCE OF STOP LINE FOR THE THROUGH LANES. ONE (1) BELDEN 9331 CABLE SHALL RUN FROM THE CONTROLLER CABINET TO EACH SENSOR. THE BELDEN 9331 CABLE SHALL RUN FROM THE CONTROLLER CABINET TO THE RADAR DETECTOR WITHOUT A SPLICE. THE CONTRACTOR SHALL PROVIDE SIX (6) FEET CABLE SLACK ON THE SENSOR SIDE OF THE BELDEN 9331 CABLE RUN. WHERE POSSIBLE, THE
- CONTRACTOR SHALL SEPARATE SIGNAL CABLE FROM OPTICOM AND DETECTOR CABLE IN CONDUIT RUNS. 210. THE FRONT OF THE ADVANCED INDUCTION LOOPS SHALL BE PLACED IN ADVANCE OF THE FRONT OF THE PRESENCE LOOPS (AT THE STOP BAR) AT LOCATIONS INDICATED IN THE
- 6 FEET DIAMETER CIRCULAR DETECTION LOOPS MAY BE USED IN LIEU OF 6 FEET BY 6 FEET SQUARE DETECTION LOOP. SPACING BETWEEN EACH LOOP AND THE NUMBER OF LOOPS SHALL BE AS SPECIFIED IN THE PLANS.

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE TRAFFIC SIGNAL GENERAL NOTES CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



}	DESIGNED BY: DRAWN BY: CHECKED BY:	ZMH MCD JCK	
	DATE:	11-15-2019	
	Kim 6671 Las Vegas Bouleva Las Vegas, Nevada 891	ley >>> Horn Ird South, Suite 320 Tel. No.(702) 862-3600	

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POLES AND HARDWARE

- 300. POLE ASSEMBLIES, TRAFFIC SIGNAL MAST ARMS, LUMINAIRE MAST ARMS AND BRACKETS, ANCHOR-BOLT AND HANDHOLE COVERS AND POLE AND MAST ARM CAPS SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH ASTM DESIGNATION A123. ASSOCIATED HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A153. FLAWS IN THE APPEARANCE OF GALVANIZED COMPONENTS SHALL BE CAUSE FOR REJECTION BY THE OWNER. THE OWNER SHALL REJECT GALVANIZED MATERIALS WITH FINISHES THAT HAVE A STRIPED OR UNEVEN APPEARANCE, A BUILD-UP OF ZINC HYDROXIDE, RUST STAINS, ASH INCLUSIONS. DROSS PROTRUSIONS AND/OR FLUX INCLUSIONS. GALVANIZED MATERIALS THAT EXHIBIT A SPIDERY APPEARANCE, A BLOTCHY OR SPOTTED APPEARANCE, OR THAT HAVE A GENERAL SURFACE ROUGHNESS OR EXHIBIT LUMPINESS OR RUNS IN THE FINISH SHALL ALSO BE REJECTED.
- EXISTING TRAFFIC SIGNAL AND/OR LIGHTING EQUIPMENT REMOVED AND NOT REUSED ON THE PROJECT SHALL BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD, LAS VEGAS, NEVADA. ALL DELIVERIES SHALL BE BY APPOINTMENT ONLY BY CALLING (702) 455-6000 AND COORDINATING WITH THE TRAFFIC SYSTEMS SUPERVISOR AND/OR THE STREETLIGHT SUPERINTEDENT. ALL STREET LIGHTING LAMPS SHALL BE SEPARATED FROM THE LUMINAIRES PRIOR TO DELIVERY TO THE COUNTY AND THE LAMPS SHALL BE DISPOSED OF PROPERLY.
- 302. THE FINAL INSTALLED POLE LOCATIONS SHALL ONLY DEVIATE FROM THE PROPOSED LOCATIONS SHOWN ON THE PLANS UPON APPROVAL BY THE TRAFFIC MANAGER. ALL SIGNAL POLE INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND SHALL NOT BE DRILLED WITHOUT PRIOR APPROVAL OF THE CLARK COUNTY TRAFFIC MANAGER.
- 303. CONTRACTOR SHALL ENSURE THAT THE TRAFFIC SIGNAL POLES ARE PLUMB AFTER THE INSTALLATION OF THE MAST ARMS AND TRAFFIC SIGNAL HEADS. WHEN EXISTING SIGNAL POLES ARE USED, CONTRACTOR SHALL BREAK EXISTING CRASH CAPS AND REPLUMB THE SIGNAL POLES AFTER LIVE ARM LOAD IS ATTACHED. CONTRACTOR SHALL ALSO RESTORE AND/OR REPLACE CRASH CAPS AND ALL ASSOCIATED HARDWARE.
- THE CONTRACTOR IS TO INSTALL MAST ARM VIBRATION MITIGATION DEVICES IF THE MAST ARM IS SIXTY (60) FEET IN LENGTH OR LONGER. COORDINATE WITH THE TRAFFIC SYSTEMS SUPERVISOR AT (702) 455-6000 FOR DETAILS.
- 305. CONTRACTOR SHALL INSTALL MCCAIN RED LIGHT VIOLATOR DETECTION UNIT, CURRENT MODELS FOR RED AND BLUE INDICATORS, AS SHOWN ON THE POLE SCHEDULE FOR EACH INTERSECTION. THE RED INDICATOR SHALL BE MOUNTED BETWEEN SIXTEEN (16') TO TWENTY (20') FEET ABOVE THE BASE PLATE OF THE SIGNAL POLE AND SHALL DETECT THE MAST ARM STRAIGHT THROUGH SIGNAL RED INDICATION. THE BLUE INDICATOR SHALL BE MOUNTED ONE (1') ABOVE THE RED INDICATOR AND SHALL DETECT THE SIDE MOUNT LEFT TURN RED INDICATION. THE INDICATORS SHALL BE MOUNTED AS SHOWN AND INDICATED ON DWG NO. 811.S1. CONTRACTOR SHALL INSTALL THE INDICATORS AT A MOUNTING HEIGHT WHERE THEY WILL NOT BE OBSTRUCTED BY ANY SIDE MOUNTED SIGNAL HARDWARE. CONTRACTOR SHALL WIRE INDICATORS DIRECTLY TO BUSS IN "J" BOX PER CALL OUT PHASING IN POLE SCHEDULE.
- 306. MODEL 722 (TWO-WAY) OPTICOM DETECTORS SHALL BE MOUNTED ON TOP OF THE LEFT-MOST END OF THE MAST ARM. THE CONTROLLER SHALL BE EQUIPPED FOR OPTICOM PRE-EMPTION USING ONE (1) CONTRACTOR SUPPLIED GTT MODEL 764 PHASE SELECTOR. CONTRACTOR SHALL SUPPLY AND DELIVER ONE (1) ADDITIONAL GTT MODEL 764 PHASE SELECTOR TO CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD, LAS VEGAS, NEVADA 89122.
- 307. ON LOCATIONS WHERE SINGLE DIRECTIONAL DETECTORS ARE REQUIRED AND SHOWN ON THE PLANS, MODEL 722 (TWO-WAY) DETECTORS SHALL BE USED AND SHALL BE MOUNTED OVER THE CENTER OF THE LANES FOR EACH DIRECTION. THE CONTROLLER SHALL BE EQUIPPED FOR OPTICOM PRE-EMPTION USING ONE (1) CONTRACTOR SUPPLIED GTT MODEL 764 PHASE SELECTOR. CONTRACTOR SHALL SUPPLY AND DELIVER ONE (1) ADDITIONAL GTT MODEL 764 PHASE SELECTOR TO CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD, LAS VEGAS, NEVADA 89122.
- 308. ALL MAST ARM WIRING SHALL TERMINATE AT A SIDE MOUNTED JUNCTION BOX ON TRAFFIC SIGNAL POLES. IF ONE IS NOT EXISTING, CONTRACTOR SHALL SUPPLY AND INSTALL THE JUNCTION BOX.
- 309. AT LOCATIONS WITH FULL OFFSITE IMPROVEMENTS, CONTRACTOR SHALL DRILL HOLES FOR THE PEDESTRIAN SIGNALS ON THE SIDE OF PEDESTRIAN SIGNAL POLE OR TRAFFIC SIGNAL POLE 180-DEGREES OPPOSITE THE CURB LINE PER STD DWG 885 AND 886 AND AT 7-FEET, 6-INCHES ABOVE FINISHED GRADE PER STD DWG 823. AT LOCATIONS WITHOUT FULL OFFSITE IMPROVEMENTS, CONTRACTOR SHALL DRILL THE HOLES FOR THE PEDESTRIAN SIGNALS IN THE TRAFFIC SIGNAL POLE AS INDICATED IN THE TABLE BELOW. (QUADRANT SIGNAL LOCATION IS DEFINED AS 1-NORTH, 2-EAST, 3-SOUTH, 4-WEST.) IF PEDESTRIAN SIGNALS ARE NOT REQUIRED PER PLAN, CONTRACTOR SHALL DRILL HOLES AS INDICATED ABOVE AND SUPPLY AND INSTALL JUNCTION BOXES TO COVER THE HOLES PER STD DWG 880.

INTERSECTION CORNER QUADRANT SIGNAL LOCATION

- 310. THE BOLT PATTERN FOR THE PEDESTRIAN POLE FOUNDATIONS SHALL BE ORIENTED IN THE SAME DIRECTION AS THE BOLT PATTERN FOR THE ADJACENT TRAFFIC SIGNAL POLE FOUNDATION AND NOT THE ADJACENT CURB LINE.
- 311. MULTI-SIDED (MINIMUM OF 18 SIDES) STEEL TRAFFIC SIGNAL MAST ARMS MAY BE USED. 312. CONTRACTOR SHALL SUPPLY AND INSTALL A POLARA INAVIGATOR ACCESSIBLE PEDESTRIAN SYSTEM, OR AN APPROVED EQUIVALENT BY THE ENGINEER. A SYSTEM SHALL INCLUDE A CENTRAL CONTROL UNIT, AN E-CONFIGURATOR, AND (IN2) 2-WIRE PUSH BUTTON STATION.
- CONTRACTOR SHALL ALSO SUPPLY AND INSTALL 9"X12" PEDESTRIAN PUSH BUTTON SIGN AND PUSH BUTTON FRAME ADAPTORS FOR USE WITH 9"X12" PEDESTRIAN PUSH BUTTON SIGNS. PEDESTRIAN PUSH BUTTON SIGNS SHALL CONFORM TO MUTCD REQUIREMENTS UNLESS OTHERWISE SPECIFIED. SIGNS SHALL BE 9"X12" IN SIZE AND SHALL HAVE TYPE XI RETROREFLECTIVE SHEETING WITH PROTECTIVE OVERLAY FILM. AND WITH FOUR (4) DRILLED AND TAPPED HOLES FOR MOUNTING THE SIGN ON THE PED PUSH BUTTON ASSEMBLY. FOUR (4) STAINLESS STEEL TAMPER-PROOF SCREWS PER EACH PUSH BUTTON ASSEMBLY SHALL BE USED TO MOUNT THE PEDESTRIAN PUSH BUTTON SIGN.
- 314. POLE ASSEMBLIES, INCLUDING SIGNAL POLES, SIGNAL MAST ARMS, LUMINAIRE MAST ARMS, TENONS, CAMERA EXTENSION POLES, INTERNALLY ILLUMINATED STREET NAME SIGN BRACKETS, VANDALISM PLATES, AND FINIALS, SHALL BE PAINTED WITH A PRIME COAT, FINISH COAT, AND AN ANTI-GRAFFITI CLEAR COAT AFTER GALVANIZING. COLOR SHALL BE FIR GREEN (RAL 6009) METALLIC.

STREET LIGHTING

- 400. EXISTING INTERSECTION LUMINAIRES AND FIXTURES SHALL BE REMOVED AND REPLACED WITH 400 WATT EQUIVALENT LIGHT EMITTING DIODE (LED) LUMINAIRES AND FIXTURES. AN ELECTRONIC PHOTOCELL (TYCO ELECTRONICS #SST-PV-IES-BL OR APPROVED EQUIVALENT) SHALL BE INSTALLED ON EACH LUMINAIRE. IF 20-FOOT HEIGHT TRAFFIC SIGNAL POLE IS USED, AN ELECTRONIC PHOTOCELL SHALL BE INSTALLED ON THE POLE CAP (TYCO ELECTRONICS # SST-PV-IES-BL OR APPROVED EQUIVALENT). EACH POLE SUPPORTING ONE OR MORE LUMINAIRES SHALL BE ELECTRICALLY FED BY AN INDIVIDUAL 120V - 1P-30A BREAKER IN THE ELECTRICAL SERVICE PEDESTAL AND A HOMERUN OF TWO (2) #10 AWG THW-2 OR XHHW-2 COPPER WIRES (BLACK AND WHITE) FROM EACH POLE TO THE
- CONTROLLER CABINET. THE GREEN GROUND WIRE (THW-2 OR XHHW-2) SHALL BE CONNECTED TO THE GROUND BUSS WITHIN THE CONTROLLER CABINET. 401. 240 VOLT STREET LIGHT CONDUITS SHALL BE SÈPARATE FROM TRAFFIC SIGNAL AND INTERSECTION LIGHTING CONDUITS. EACH SHALL HAVE SEPARATE PULL
- 402. IF REQUIRED BY THE TRAFFIC SIGNAL PLANS AND/OR STREET LIGHT PLANS, CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING STREET LIGHT POLE ASSEMBLY: SEE SPECIAL PROVISIONS FOR FOUNDATION REMOVAL: INTERCEPT EXISTING CONDUIT AND WIRING INTO A NO. 3% PULL BOX. WHILE MAINTAINING THE EXISTING STREET LIGHT CIRCUIT. LAMPS SHALL BE SEPARATED FROM THE LUMINAIRES AND DISPOSED OF PROPERLY, PRIOR TO DELIVERING THE SALVAGED LUMINAIRES TO CLARK COUNTY TRAFFIC OPERATIONS. EXISTING LUMINAIRE ARMS SHALL ALSO BE REMOVED AND DISASSEMBLED PRIOR TO DELIVERING THE SALAVAGED STREETLIGHT POLES AND LUMINAIRE ARMS TO CLARK COUNTY TRAFFIC OPERATIONS.
- 403. AT LOCATIONS WHERE EXISTING INTERSECTION LIGHTING IS ON AN EXISTING 240V STREETLIGHT CIRCUIT, THE CONTRACTOR SHALL REPLACE THE EXISTING 400W, 240V STREETLIGHT FIXTURE WITH A NEW 120V, 400W EQUIVALENT LIGHT EMITTING DIODE (LED) LAMP AND CUTOFF STREETLIGHT FIXTURE. ALL REMAINING STREETLIGHTS SHALL REMAIN FULLY OPERATIONAL ON THE EXISTING STREETLIGHT CIRCUIT. THE CONTRACTOR SHALL ENSURE THE CONTINUITY OF THE EXISTING 240V STREETLIGHT CIRCUIT WHILE REPLACING THE LUMINAIRES AT THE SIGNALIZED INTERSECTION. INTERSECTION LIGHTING AND THE TRAFFIC SIGNAL SHALL BE FED FROM THE SAME SERVICE POINT.

VEHICLE / PEDESTRIAN HEADS

- 500. ALL TRAFFIC SIGNAL VEHICLE INDICATIONS SHALL USE A 12 INCH SIGNAL LENS.
- 501. ALL TRAFFIC SIGNAL PEDESTRIAN INDICATIONS SHALL BE 17 INCHES WIDE AND 16 INCHES HIGH.
- 502. ALL TRAFFIC SIGNAL VEHICLE HEADS SHALL USE FULL—CIRCLE VISORS UNLESS OTHERWISE NOTED ON THE PLANS. 503. AT LOCATIONS WHERE VISUALLY ORIENTED TRAFFIC SIGNAL VEHICULAR HEADS ARE REQUIRED, GEOMETRICALLY PROGRAMMED LOUVER WITH ASSOCIATED ADJUSTABLE 12-INCH FULL CIRCLE VISOR SHALL BE USED. CONTRACTOR SHALL SUPPLY AND INSTALL A GEOMETRICALLY PROGRAMMED LOUVER THAT PERMITS INCREMENTAL TILTING FROM 7 DEGREES TO 15 DEGREES ABOVE OR BELOW THE HORIZONTAL WHILE MAINTAINING A COMMON VERTICAL AXIS THROUGH COUPLERS
- 504. ALL TRAFFIC SIGNAL VEHICLE HEADS SHALL HAVE LOUVERED BACKPLATES. BACKPLATES SHALL BE PAINTED OR POWDER COATED BLACK (FRONT SIDE)/GREEN
- 505. PEDESTRIAN PUSH BUTTONS SHALL MEET THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND BE INSTALLED ON POLE AT A HEIGHT
- BETWEEN THIRTY—SIX (36) INCHES AND FORTY—TWO (42) INCHES FROM FINISHED GRADE. PEDESTRIAN PUSH BUTTON SIGN SHALL BE R10—3E (9"X12"). 506. ALL PEDESTRIAN SIGNAL ASSEMBLIES SHALL BE SUPPLIED WITH L.E.D. MESSAGE MODULES. THE "HAND" SHALL BE PORTLAND ORANGE L.E.D., THE "WALKING
- PERSON" SHALL BE LUNAR WHITE L.E.D. AS SPECIFIED IN THE STANDARD SPECIFICATIONS. THE SYMBOLS SHALL BE ENTIRELY LIGHTED AND NOT HOLLOW. 507. ALL PEDESTRIAN SIGNALS SHALL BE EQUIPPED TO COUNT DOWN THE PEDESTRIAN CLEARANCE INTERVAL. EXISTING NON-COUNT DOWN PEDESTRIAN SIGNAL HEADS
- SHALL BE CHANGED TO COUNT DOWN TYPE. ALL TRAFFIC SIGNAL VEHICLE INDICATIONS SHALL BE LIGHT EMMITING DIODE (L.E.D.) AS SPECIFIED IN THE SPECIAL PROVISIONS AND THE MOST RECENT ITE
- SPECIFICATIONS. ALL L.E.D. MODULES SHALL COMPLY WITH THE MOST RECENT SPECIFICATIONS AND TECHNOLOGY AS ADOPTED AND APPROVED BY THE INSTITUTE OF
- TRANSPORTATION ENGINEERS (ITE). 510. CONTRACTOR SHALL SUPPLY AND INSTALL TRAFFIC SIGNAL, FLASHER AND PEDESTRIAN HEAD COVERS ON EACH INSTALLED NEW SIGNAL AND PEDESTRIAN HEAD. THE COVER SHALL BE TRAFFIC JACKETS AS SUPPLIED BY PHOENIX HIGHWAY PRODUCTS, OR AN APPROVED EQUAL BY CLARK COUNTY TRAFFIC MANAGER. THE COVERS SHALL BE BRIGHT ORANGE WITH A VERTICAL MESSAGE "NOT IN SERVICE" IN BLACK ON EACH COVER, FOR NEW CONSTRUCTION. THE COVERS SHALL BE BLACK WITH A VERTICAL MESSAGE "NOT IN SERVICE" IN WHITE ON EACH COVER, FOR MODIFICATIONS TO A TRAFFIC SIGNAL ALREADY IN OPERATION. THE TRAFFIC SIGNAL, FLASHER AND/OR PEDESTRIANS HEAD COVERS REMAIN THE PROPERTY OF THE CONTRACTOR UNTIL THE SIGNAL IS ENERGIZED AND IS ACCEPTED BY CLARK COUNTY, UPON WHICH THEY BECOME THE PROPERTY OF CLARK COUNTY.

CONTROLLER AND SERVICE PEDESTAL

- 600. THE NEVADA ENERGY TRANSFORMER SHALL BE A MAXIMUM OF THREE HUNDRED AND FIFTY (350) FEET FROM THE SERVICE PEDESTAL, UNLESS APPROVED OTHERWISE BY THE TRAFFIC MANAGER.
- THE SERVICE PEDESTAL SHALL BE A MAXIMUM OF FIVE (5) FEET FROM THE CONTROLLER CABINET. 602. ALL ELECTRONIC PHOTOCELLS FOR STREET LIGHTS SHALL BE INSTALLED IN THE SERVICE PEDESTALS FROM WHICH THE STREET LIGHTS ARE FED. THE ELECTRONIC
- PHOTOCELLS SHALL BE TYCO ELECTRONICS # SST-PV-IES -BL OR APPROVED EQUIVALENT. 603. CONTRACTOR SHALL SUPPLY A NAZTEC MODEL 980 ATC SIGNAL CONTROLLER WITH APOGEE ACTUATED SIGNAL CONTROLLER SOFTWARE (LATEST VERSION) AND ONE (1) GTT MODEL 764 EMERGENCY VEHICLE PHASE SELECTOR FOR EACH TRAFFIC SIGNAL SYSTEM. CONTRACTOR SHALL DELIVER THE CONTROLLER CABINET, CONTROLLER, LOOP AMPLIFIERS, AND EMERGENCY VEHICLE PHASE SELECTORS TO CLARK COUNTY TRAFFIC OPERATIONS, FOURTEEN (14) DAYS PRIOR TO SIGNAL TURN-ON FOR TESTING. THE CONTRACTOR SHALL PICK-UP THE CONTROLLER CABINET AT CLARK COUNTY TRAFFIC OPERATIONS, 5821 E. FLAMINGO ROAD BY
- APPOINTMENT ONLY. THE CONTRACTOR SHALL NOTIFY CLARK COUNTY AT (702) 455—6000 SEVEN (7) DAYS PRIOR TO PICK—UP. 604. THE CONTRACTOR SHALL INSTALL A CONTRACTOR-SUPPLIED COUNTY STANDARD CONTROLLER CABINET ON A CONTRACTOR FURNISHED FOUNDATION. ALL
- EQUIPMENT TO BE INSTALLED WITHIN THE CABINET SHALL BE FURNISHED BY THE CONTRACTOR. ALL TRAFFIC SIGNALS SHALL BE POWERED FROM A 200 AMP SERVICE PEDESTAL.
- 606. ALL 200AMP SERVICE PEDESTAL SHALL INCLUDE THE FOLLOWING:
 - ONE (1) 200 AMP DOUBLE POLE CIRCUIT BREAKER (MAIN) - ONE (1) 60 AMP SINGLE POLE CIRCUIT BREAKER (TRAFFIC SIGNAL)
 - FOUR (4) 30 AMP SINGLE POLE CIRCUIT BREAKERS (INTERSECTION LIGHTING)
 - ONE (1) 15 AMP SINGLE POLE CIRCUIT BREAKER (PHOTO CELL)
 - TWO (2) 60 AMP 240V DOUBLE POLE CIRCUIT BREAKERS (STREET LIGHTING)
 - TWO (2) DOUBLE POLE LIGHTING CONTACTOR W/120VOLT COIL (GE# CR360L40202AAAZ OR APPROVED EQUAL) - ONE (1) 120 VOLT ELECTRONIC PHOTO ELECTRIC CONTROLS (TYCO ELECTRONICS # SST-PV-IES -BL OR APPROVED EQUAL)
 - IF AN EXISTING SERVICE PEDESTAL IS USED TO POWER THE TRAFFIC SIGNAL, CONTRACTOR SHALL INSPECT THE EXISTING SÉRVICE PEDESTAL, AND SUPPLY AND INSTALL ANY MISSING BREAKERS.
- 607. NEW SERVICE PEDESTALS AND TRAFFIC SIGNAL CABINETS AND THE DOORS OF THIS EQUIPMENT SHALL BE FINISHED INSIDE AND OUT WITH GLOSS POLYURETHANE POWDER COATING CONSISTING OF FEDERAL SPECIFICATION 595 POLYURETHANE, INDUSTRIAL GRADE HIGH GLOSS POWDER PAINT WITH 1.7 MIL THICKNESS MINIMUM. SERVICE PEDESTALS SHALL BE MINT GREEN (FEDERAL COLOR 14672) AND TRAFFIC CONTROL CABINETS SHALL BE HIGH GLOSS PURE WHITE. THE FINISH SHALL PRESENT A SMOOTH SURFACE, UNIFORM IN COLOR AND FREE OF RUNS, SAGS OR OTHER IRREGULARITIES.

ILLUMINATED STREET NAME SIGNS

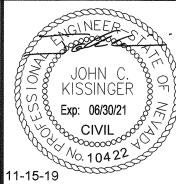
- 700. CONTRACTOR SHALL PROVIDE AND INSTALL THE NUMBER OF ILLUMINATED STREET NAME SIGNS AS SHOWN IN THE PLANS.
- 701. ALL ILLUMINATED STREET NAME SIGNS SHALL BE EIGHT (8) FEET IN LENGTH.
- 702. ALL ILLUMINATED STREET NAME SIGNS SHALL USE TRANSLUCENT WHITE WIDE ANGLE PRISMATIC REFLECTIVE SIGN FACE SHEETING. SHEETING SHALL CONFORM TO ASTM D4956, TYPE XI SHEETING. STREET NAMES SHALL BE APPLIED ON TOP OF THE PRISMATIC REFLECTIVE SIGN FACE SHEETING BY EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OVER-LAYED WITH GREEN ELECTRONIC CUTABLE TRANSPARENT OVERLAY FILM, APPLIED TO A CLEAR HIGH IMPACT RESISTANT, REINFORCED ACRYLIC PANEL.
- 703. STREET NAME SIGNS SHALL BE IN UPPER AND LOWER CASE LETTERS USING 12-INCH SERIES HIGHWAY LETTERING. SEE PLANS FOR DETAILS. THE WIND LOADING SHALL BE A MINIMUM OF 90 MPH.
- 704. APPROVAL OF SHOP DRAWINGS OF SIGN FACE LAYOUT BY THE PROJECT ENGINEER IS REQUIRED PRIOR TO FABRICATION OF SIGN.
- 705. SHEETING SHALL BE APPLIED IN A VERTICAL ORIENTATION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. 706. THE HOT LEAD SHALL BE CONNECTED TO THE LOAD SIDE OF THE LUMINAIRE P.E. CONTROL OF THE RELATED STREET LIGHT. THIS TERMINATION SHALL BE MADE AND ACCESSIBLE IN THE HANDHOLD LOCATED AT THE BASE OF THE TRAFFIC SIGNAL POLE. THE NEUTRAL WIRE SHALL BE CONNECTED TO THE STREET LIGHT NEUTRAL AT THE HANDHOLE. NO. 12 THW-2 OR XHHW-2 CONDUCTOR SHALL BE USED. THE STREET NAME SIGN SHALL BE WIRED TO THE LUMINAIRE PHOTO CELL ON THE RELATED STREET LIGHT DIRECTLY OVER MAST ARM. ALL THESE TERMINATIONS SHALL BE MADE AND ACCESSIBLE IN THE HANDHOLD LOCATED AT THE BASE OF THE TRAFFIC SIGNAL POLE.
- 707. ALL ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE FACED UNLESS OTHERWISE NOTED IN THE POLE SCHEDULE.
- 708. TWO (2) 8-FOOT BI-DIRECTIONAL LIGHT EMITTING DIODE (LED) TUBE LAMPS WITH 180-DEGREE LIGHT DISTRIBUTION AND INTERNAL DRIVERS ARE REQUIRED FOR EACH ILLUMINATED STREET NAME SIGN. LAMP SHALL HAVE SINGLE PIN FA8 CONTACT AT EACH END.
- CONTRACTOR SHALL SUPPLY AND INSTALL ONE 14/3 STRANDED SEOOW CORD THAT SHALL RUN CONTINUOUSLY FROM THE INTERNALLY ILLUMINATED STREET NAME SIGN ENCLOSURE, THROUGH TWO STRAIN RELIEF CONNECTORS, TO THE HAND HOLE AT THE BASE OF THE TRAFFIC SIGNAL POLE. ONE NO. 10 RED CONDUCTOR SHALL RUN FROM THE PHOTOCELL ON TOP OF THE LUMINAIRE TO THE HAND HOLE AT THE BASE OF THE TRAFFIC SIGNAL POLE. CONNECTIONS BETWEEN THE STREET NAME SIGN AND THE PHOTOCELL SHALL BE MADE AT THE HAND HOLE AT THE BASE OF THE POLE.
- 710. THE STRAIN RELIEF CONNECTORS SHALL BE STRAIGHT ALUMINUM DELUXE CORD GRIP/STRAIN RELIEF CONNECTORS THAT ARE COMPATIBLE WITH A 0.005-INCH TO 0.625-INCH CORD DIAMETER. STRAIN RELIEF CONNECTOR SHALL BE HUBBELL F2 OR AN APPROVED EQUIVALENT BY THE TRAFFIC MANAGER.
- THE SEOOW CORD SHALL HAVE THREE (3) NO. 14 AWG CONDUCTORS (BLACK, GREEN AND WHITE), AND HAVE THERMOPLASTIC ELASTOMER (TPE) INSULATION AND THERMOPLASTIC ELASTOMER (TPE) JACKET. THE SECOW CORD SHALL BE WATER-RESISTANT, UL LISTED, RATED FOR 600 VOLTS, WITH TEMPERATURE RANGE FROM 105 DEGREES CELSIUS TO -50 DEGREES CELSIUS. SEOOW CORD SHALL BE CCI SEOPRENE 105 14 AWG 3/C SEOOW E54864 OR AN APPROVED EQUIVALENT BY THE TRAFFIC MANAGER.
- 712. INTERNALLY ILLUMINATED STREET NAME SIGN AND ASSOCIATED BRACKETS SHALL BE FROM THE SAME MANUFACTURER. TWO (2) BAND-IT TYPE BANDS SHALL BE USED FOR EACH BRACKET.

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ROADWAY IMPROVEMENTS FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE TRAFFIC SIGNAL GENERAL NOTES

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: DRAWN BY: CHECKED BY: DATE:	ZMH MCD JCK 11-15-2019	SCAL
Kim 6671 Las Vegas Boulev Las Vegas, Nevada 89	ley Horn and South, Suite 320 Tel. No.(702) 862–3600	FIEL

ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

TRAFFIC SIGNAL NOTES AND LEGEND

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

REVISED PER REVISION NO. 2

11/15/2019

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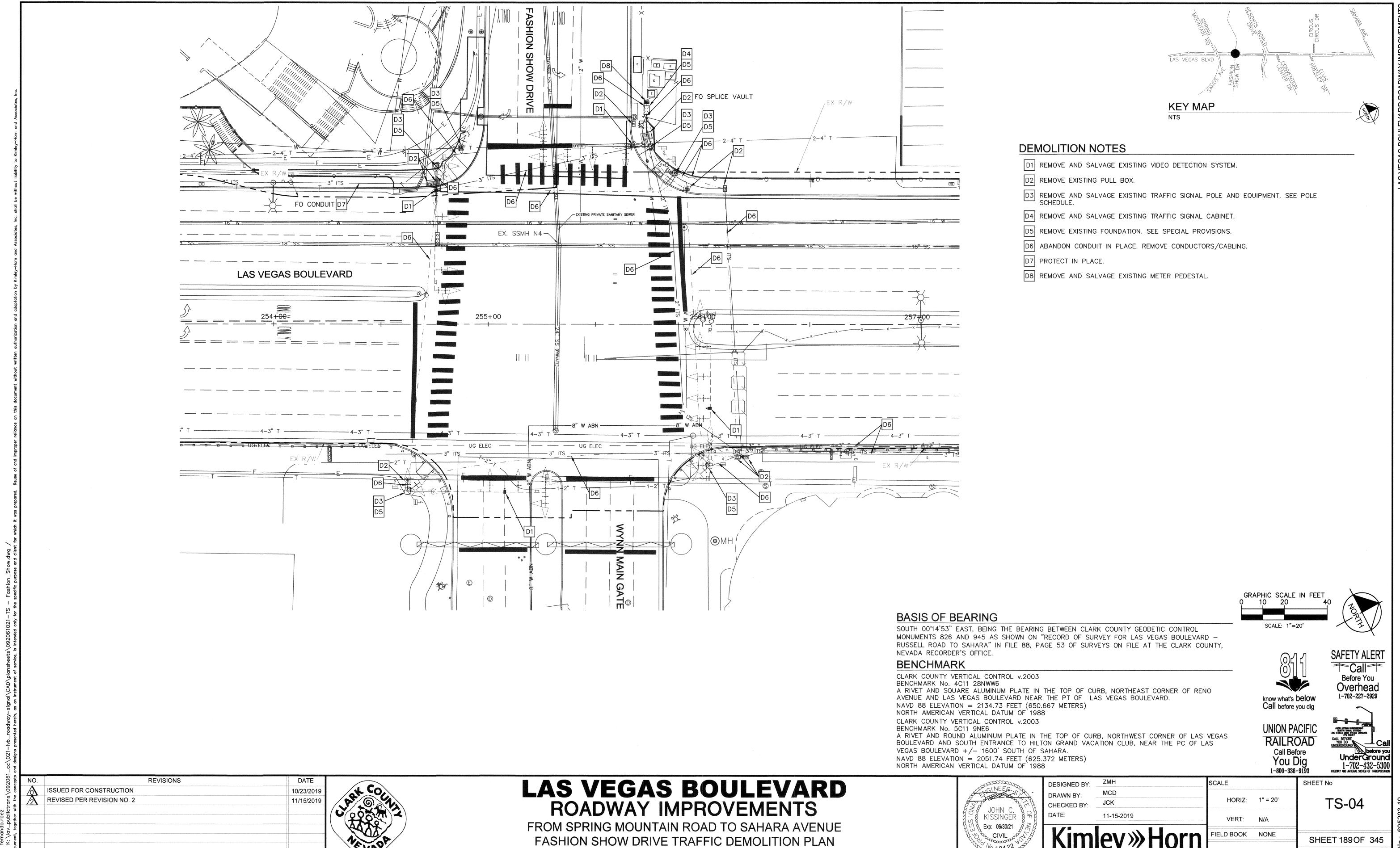
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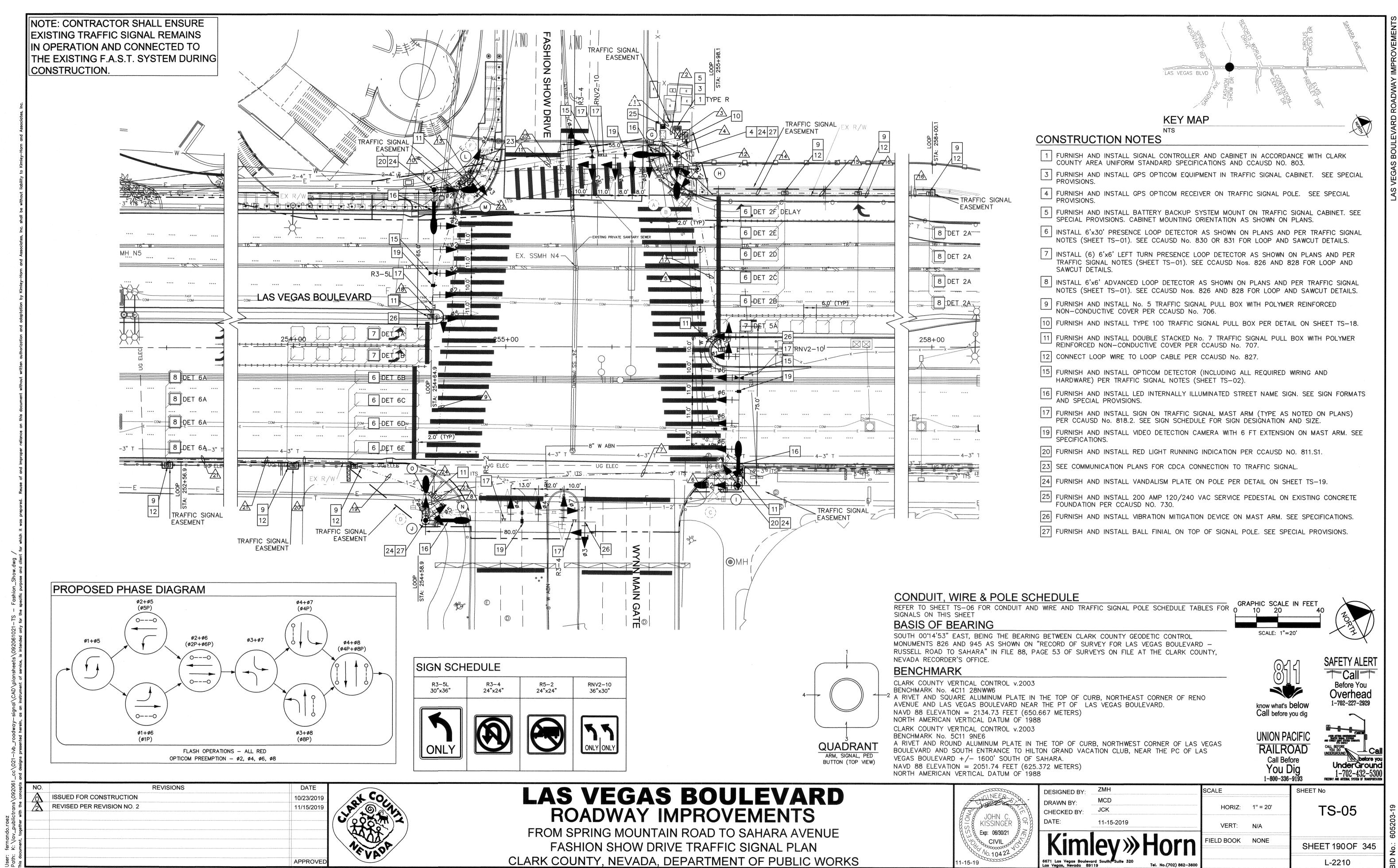
11-15-2019



CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

APPROVED

L-2210



STREET NAME SIGN SCHEDULE S Las Vegas BLVD 19 Wynn Main Gate 19 0.0" Radius, 0.0" Border, None on, Green; "Wynn" White B 90% spacing; "Main" White B 90% spacing; "Gate" White B 90% spacing; W Fashion Show DR 2200 LA 2200

0.0" Radius, 0.0" Border, None on, Green;

"W" White C; "Fashion" White B 30% spacing; "Show" White B 30% spacing; "DR" White C; "2200" White C;

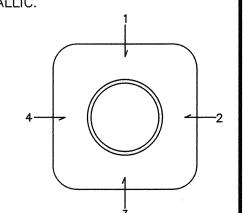
PO	LE SCHEDULE																	
·	unter metet stelle promiente in en stelleten set en blev meure gewaanste van besteure stelle bestelle voor kon vier in be					***************************************	im control opoljevinovani kanadaya adapljška agreja parete		SIGNA	LS		PEDES	TRIAN					
		POLE					VEHICLE *** PEDESTRIAN F					BUTTON	RED LIC	GHT INDI	CATORS			
POLE	LOCATION STATION & OFFSET	TYPE	FOUND	MAST ARM*		LUMINAIRE**		TYPE	QUAD	TYPE	QUAD	ARROW	QUAD	TYPE	PHASE	OLIAD	EMERGENCY VEHICLE DETECTOR	REMARKS
1 022	(LAS VEGAS BOULEVARD) TOP OF FOUNDATION ELEV.	HEIGHT		QUAD	LENGTH	QUAD LENGTH		1112	QUAD	111 -	QUAD	ANNOW	QUAD		ITTAGE	QOAD		
(A)	STA: 255+75.90 (EX) OFF: 82.85' LT (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(3) M-2L (EX) (2) M-2 (EX) (1) B-1T (EX)	MA (EX) MA (EX) 2 (EX)	W-OT (EX)	(EX)	(EX)	(EX)	-	_		_	SEE TS-04
$\begin{pmatrix} B \end{pmatrix}$	STA: 255+87.28 (EX) OFF: 70.73' LT (EX)	(EX)	(EX)			Plants		(1) A-2T (EX)	TOP (EX)	W-OT (EX)	(EX)	(EX)	(EX)	_	_	ween.	-	SEE TS-04
(o)	STA: 256+03.50 (EX) OFF: 65.33' RT (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(2) M-2L (EX) (3) M-2 (EX) (1) B-2T (EX)	MA (EX) MA (EX) 3 (EX)	W-3T (EX)	(EX)	(EX)	(EX)	_			-	SEE TS-04
(D)	STA: 254+62.45 (EX) OFF: 77.56' RT (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(2) M-2L (EX) (2) M-2 (EX) (1) B-2T (EX)	MA (EX) MA (EX) 3 (EX)	W-3T (EX)	(EX)	(EX)	(EX)	***************************************	- sonto		-	SEE TS-04
(E)	STA: 254+75.52 (EX) OFF: 73.77' LT (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(1) M-2L (EX) (3) M-2 (EX) (1) B-2T (EX)	MA (EX) MA (EX) 4 (EX)	W-OT (EX)	(EX)	(EX)	(EX)		_	-	<u>-</u>	SEE TS-04
(E)	STA: 254+87.23 (EX) OFF: 82.16' LT (EX)	(EX)	(EX)			•		(1) A-2T (EX)	1 (EX)	W-OT (EX)	OT (EX) (EX)	(EX)	(EX)	_	_		-	SEE TS-04
<u>G</u>	STA: 255+80.57 OFF: 90.04' LT	30'	М	4	55'	4 3	15' 15'	(3) M-2L (2) M-2 (1) B-1T	MA MA 2	W-OT	2	LT	3	_	_		TWO WAY	41 FROM (A)
H	STA: 255+90.34 OFF: 83.46' LT	1-A 10'	С				<u></u>	(1) A-2T	TOP	W-OT	4	RT	4	_				
	STA: 256+09.48 OFF: 65.06' RT	XX-B	М	1	75'	1 4	15' 15'	(2) M-2L (4) M-2 (1) B-2T	MA MA 3	W-3T	3	LT RT	LT 1 RT 4		ø6 ø7	2	TWO WAY	40 42 44 FROM
(-5)	STA: 254+62.39 OFF: 81.47' RT	XX-B	М	2	80'	1 2	15' 15'	(2) M-2L (2) M-2 (1) B-2T	MA MA 3	W-3T	2	RT LT	2 1	-				
K	STA: 254+66.02 OFF: 73.42' LT	XX-B	М	3	65'	2 3	15' 15'	(1) M-2L (4) M-2 (1) B-1T	MA MA 1	W-OT	1	_		RED BLUE	ø2 ø3	4	TWO WAY	40 44 FROM (E)
L	STA: 254+83.39 OFF: 82.46' LT	1-A 10'	С		ion	man.	_	(1) A-3	TOP	W-OT	4	RT	4	_	_		-	
M	STA: 254+77.33 OFF: 76.14' LT	PPB**** 5.5'	- A	-		e de la constante de la consta	_	_		-	_	LT	2				-	
(N)	STA: 254+70.15 OFF: 74.54' RT	PPB**** 5.5'	Α					-		-		LT	1	*****************			-	
0	STA: 254+61.22 OFF: 66.92' RT	PPB**** 5.5'	Α		and the same of th				_			RT	2				-	

- * CONTRACTOR SHALL PROVIDE SIGNAL MAST ARM AT LENGTH SPECIFIED IN POLE SCHEDULE. CONTRACTOR SHALL PROVIDE WEATHER TYPE CAP AT THE END OF THE MAST ARM AND SHALL BE APPROVED BY THE ENGINEER. TENONS TO BE FIELD DRILLED PER SPACING SPECIFIED ON LAYOUT SHEET AND SHALL BE PRIMED AND PAINTED.
- ** PROPOSED LUMINARIES SHALL CONFORM W/ CURRENT CLARK COUNTY STANDARDS & SPECIFICATIONS. REFER TO TYPE B FIXTURE ON SHEET EL-10. *** ALL TRAFFIC SIGNAL HEAD BACKPLATES SHALL BE INSTALLED WITH A YELLOW RETROREFLECTIVE STRIP. SEE SPECIAL PROVISIONS. **** PEDESTRIAN PUSH BUTTON POST. SEE DETAIL ON SHEET TS-20.

POLE		STREET NAME SIGNS												
NO.	DIRECTION	STREET NAME	SUFFIX	BLOCK NO.	REMARKS									
(A)	S	LAS VEGAS	BLVD	3100	REMOVE AND SALVAGE SIGN									
(c)	E	WYNN MAIN GATE		0	REMOVE AND SALVAGE SIGN									
(D)	S	LAS VEGAS	BLVD	3200	REMOVE AND SALVAGE SIGN									
(E)	W	FASHION SHOW	DR	2200	REMOVE AND SALVAGE SIGN									
G	S	LAS VEGAS	BLVD	3100	FURNISH AND INSTALL									
1		WYNN MAIN GATE		_	FURNISH AND INSTALL									
<u>J</u>	S	LAS VEGAS	BLVD	3200	FURNISH AND INSTALL									
K	w	FASHION SHOW	DR	2200	FURNISH AND INSTALL									

RELOCATION NOTES

- RELOCATE, MAKE OPERATIONAL, AND TEST A FAST CCTV CAMERA SYSTEM. SUPPLY A CAMERA CABLE FROM THE CCTV CAMERA TO THE TRAFFIC ACTUATED CONTROLLER. SEE "F.A.S.T. CAMERA RELOCATION NOTES" ON SHEET TS-03.
- 41 RELOCATE DSRC UNIT FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE
- RELOCATE METRO DOME CAMERA FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
- 44 REMOVE AND SALVAGE EXISTING CAMERA EXTENSION POLE. FURNISH AND INSTALL CAMERA EXTENSION POLE (11'-8" HIGH RISE) PER NDOT DETAIL T-33.11.2. EXTENSION POLE SHALL BE PRIMED AND PAINTED. COLOR SHALL BE FIR GREEN (RAL6009) METALLIC.



QUADRANT ARM, SIGNAL, PED BUTTON (TOP VIEW)

NO.	REVISIONS	DATE
6	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
Name and the second		
		APPROVED

S Las Vegas BLVD 3200 ELVD 3200 ELVD

0.0" Radius, 0.0" Border, None on, Green;

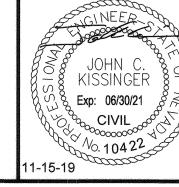
0.0" Radius, 0.0" Border, None on, Green;

"S" White C; "Las" White C; "Vegas" White C; "BLVD" White C; "3100" White C;

"S" White C; "Las" White C; "Vegas" White C; "BLVD" White C; "3200" White C

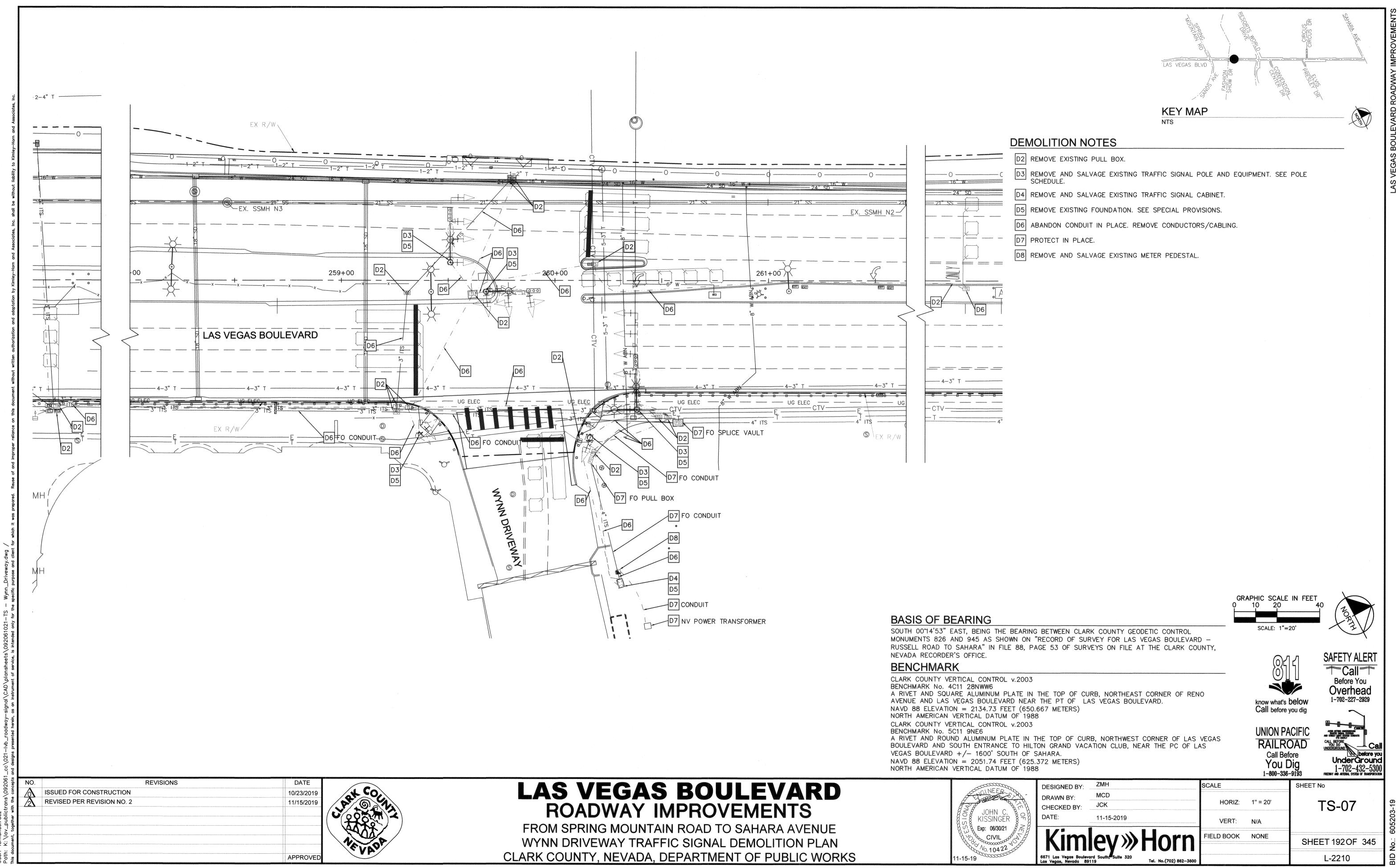
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

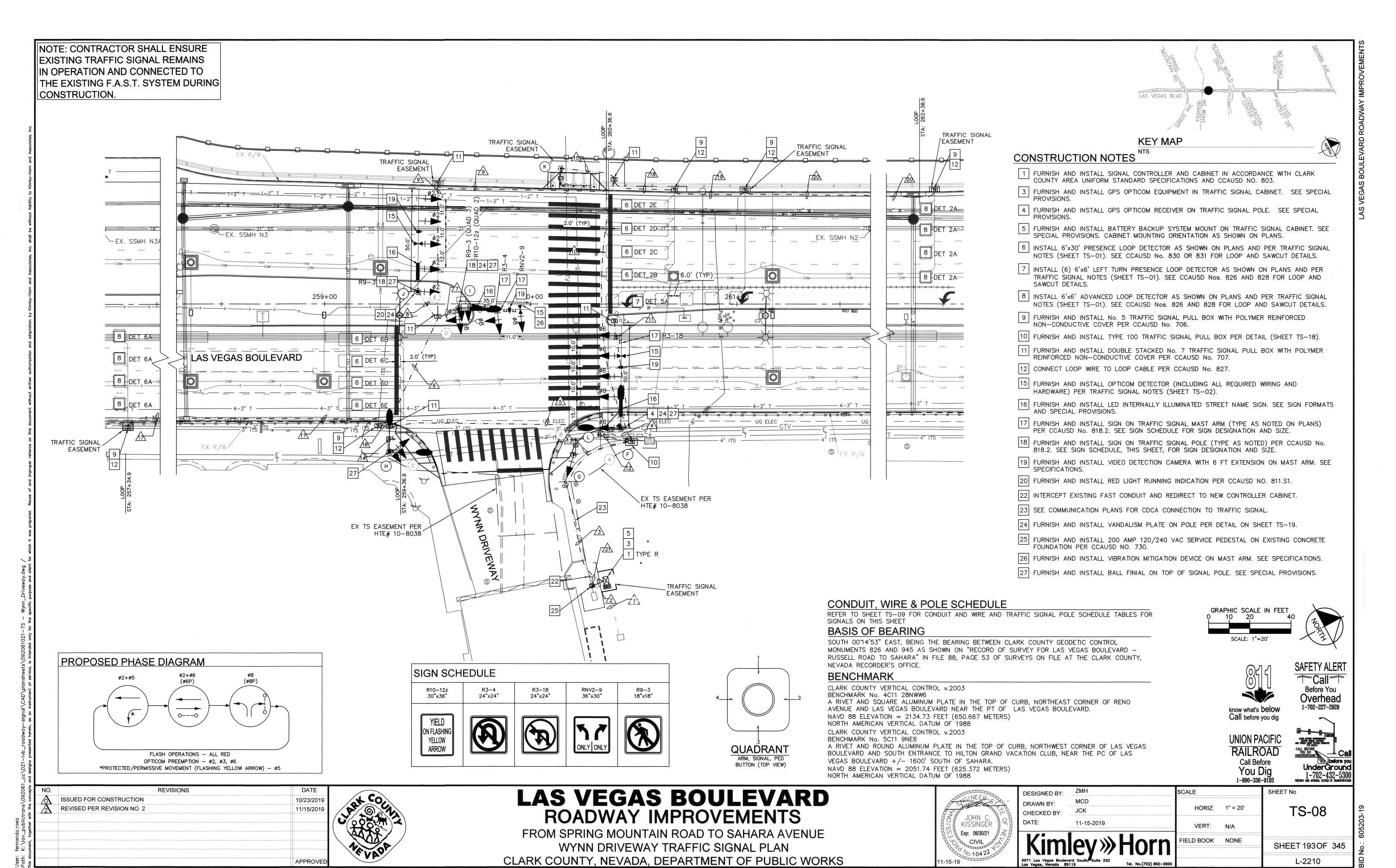
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE FASHION SHOW DRIVE TRAFFIC SIGNAL SCHEDULE CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DESIGNED BY: DRAWN BY:	ZMH MCD	
CHECKED BY:	JCK	
DATE:	11-15-2019	
Kim	ley»	Horn

	SCALE		SHEET No	
	HORIZ:	N/A	TS-06	
	VERT:	N/A		
orn	FIELD BOOK	NONE	SHEET 191 OF 345	
.(702) 862-3600			L-2210	





WIRE & CABLE	EDOM	TO								С	ONDUI	T											
WIRE & CABLE	FROM	ТО	/1\	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
(3) No. 2/0 AWG (EX)	SERVICE POINT	SERVICE PEDESTAL	0									-											T
(3) No. 4 CONDUCTOR THW-2 OR XHHW-2 (1) No. 8 GROUND (GREEN)	SERVICE PEDESTAL	CONTROLLER		•																		-	
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE M-138 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE F			•	•					-												
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE G			•										•								
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE H			•		•									•							Ī
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE M-138 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE I			•		•		•		RUN -		RUN 										Ī
(1) 25 COND. IMSA 20-1 No. 14 (1) OPTICOM CABLE M-138 (1) VIDEO DETECTION CABLE	CONTROLLER	POLE J			•		•	•		•													Ī
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE K			•						CONDUIT	•	CONDUIT				•						Ī
(1) 25 COND. IMSA 20-1 No. 14	CONTROLLER	POLE L			•						RE		₹E	•									Ī
(3) NO. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE F		•	•	ò					SPA		I SPARE I										1
(3) NO. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE H		•	•		•			-	, , , , , , , , , , , , , , , , , , ,					•							Ī
(3) NO. 10 THW-2 OR XHHW-2	SERVICE PEDESTAL	LUMINAIRE POLE I		•	•		•	•	•		terre et en												T
(3) LOOP LEAD — IN CABLE MSA 50—2 #12 AWG	CONTROLLER	ø2 LOOPS			•						**************************************	•				,			() () () () () () () () () ()	•			T
(1) LOOP LEAD — IN CABLE MSA 50—2 #12 AWG	CONTROLLER	ø2 ADVANCE LOOPS			•			·				•		·		<u> </u>				•	•		T
(1) LOOP LEAD — IN CABLE MSA 50—2 #12 AWG	CONTROLLER	ø5 LOOPS			•							•								•	•		T
(3) LOOP LEAD — IN CABLE MSA 50—2 #12 AWG	CONTROLLER	ø6 LOOPS			•		•											•					T
(1) LOOP LEAD — IN CABLE MSA 50-2 #12 AWG	CONTROLLER	ø6 ADVANCE LOOPS			•		•											•	•				T
(1) 12 CDCA	CONTROLLER	T200 S.V.									-											***************************************	T
(1) No. 8 (GREEN)	CONTROLLER	R TO POLES	1	2	6	2	4	4	2	2	4	4	1	1	1	1	1	1	1	1	1	1	1
PULL ROPE	(NUMBER A	AS SHOWN)	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	T
No. OF CONDUITS — CONDUIT SIZE E) = EXISTING CONDUITS	:	\\display \\display \display \	3/	/ A)	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3,5	1 (S) (S) (S) (S) (S)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3 3	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 (S) (S) (S)	?\ \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\	, i	j.	is S	<u></u>	3/0	3/8	3/0	2	3/0	ix/	/

CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL CONDUITS THAT ARE EMPTY (NO CONDUCTORS/CABLING)

POLE SCHEDU	JLE
-------------	-----

POLE							SIGNALS					PEDESTRIAN PUSH BUTTON		EDESTRIAN RED LIGHT INDICATORS					
		r OLL				4		VEHICLE	**	PEDESTRI	AN	PUSH E	BUTTON	KED LIK	יוטאו וחטיי	CATORS			
POLE	LOCATION STATION & OFFSET (LAS VEGAS BOULEVARD)	TYPE	FOUND	MAS	T ARM	LUMI	INAIRE*	TYPE	QUAD	TYPE	QUAD	ARROW	QUAD	TYPE	PHASE	QUAD	EMERGENCY VEHICLE DETECTOR	REMARKS	
	(LAS VEGAS BOULEVARD) TOP OF FOUNDATION ELEV.	HEIGHT		QUAD	LENGTH	QUAD	LENGTH												
(A)	STA: 260+38.45 (EX) OFF: 60.18' RT (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(4) M-2 (EX) (1) B-1T (EX)	MA (EX) 3 (EX)		(EX)		en e		<u>-</u> -			SEE TS-07	
(B)	STA: 260+16.60 (EX) OFF: 73.24' RT (EX)	(EX)	(EX)		acces.		1	(1) A-2T (EX)	3 (EX)	W-OT (EX)	(EX)	(EX)	(EX)		_	_	<u></u>	SEE TS-07	
(c)	STA: 259+36.27 (EX) OFF: 73.24' RT (EX)	(EX)	(EX)	and the second abstraction agree a simulation and the second seco	and processes and a stage of the stage of th		en Bereit de la constante de l	(1) A-15T (EX)	2 (EX)	W-OT (EX)	(EX)	(EX)	(EX)	*****	_			SEE TS-07	
(D)	STA: 259+67.75 (EX) OFF: 5.34' RT (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(1) M-2R (EX) (1) M-2L (EX) (1) B-6T (EX)	MA (EX) MA (EX) 4 (EX)				engeneralisas santa parparagan santa santa					SEE TS-07	
(E)	STA: 259+51.03 (EX) OFF: 8.42' LT (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(3) M-2 (EX) (1) B-5T (EX)	MA (EX) 3 (EX)	_	_						·	SEE TS-07	
F	STA: 260+43.67 OFF: 60.10' RT	XX-A 30'	L	1	50'	1 4	15' 15'	(4) M-2 (1) B-1T	MA 3	W-OT	2	_		RED BLUE	ø6 ø5	2	TWO WAY	41 43 FROM (A)	
<u></u>	STA: 260+20.83 OFF: 73.29' RT	1-A 10'	С		manana di mangangan kanana da manana da m Manana da manana da m	- Carrier and Carr		(1) A-2T	3	W-OT	3	RT	1		-	·			
H	STA: 259+31.52 OFF: 71.78' RT	XX-A 30'	L			1 2	15' 15'	(1) B-8T	2	W-OT	4	LT	1						
	STA: 259+64.90 OFF: 2.47' RT	XX-A 30'	L	2	35'	2	15'	(1) M-2 (1) M-2L (1) B-6T	MA MA 4	_		_	en anni indicati procedi procedi chi cari	essential service and assertance in the service of	_		TWO WAY		
	STA: 259+45.14 OFF: 5.97' LT	XX-A	L	1	50'		_	(4) M−2U ◊ (1) B−5T ◊	MA 4	_	-	_		RED BLUE	ø2 ø8	4	TWO WAY		
	STA: 260+14.55 OFF: 65.44' LT	1-B	С	***************************************				_	_	W-1T	TOP	LT	2	epada	_	_	_	V	
(L)	STA: 260+43.74 OFF: 60.19' RT	PPB**** 5.5'	Α	actions		-				_	_	LT	4						

- * CONTRACTOR SHALL PROVIDE SIGNAL MAST ARM AT LENGTH SPECIFIED IN POLE SCHEDULE, CONTRACTOR SHALL PROVIDE WEATHER TYPE CAP AT THE END OF THE MAST ARM AND SHALL BE APPROVED BY THE ENGINEER. TENONS TO BE FIELD DRILLED PER SPACING SPECIFIED ON LAYOUT SHEET AND SHALL BE PRIMED AND PAINTED.
- ** PROPOSED LUMINARIES SHALL CONFORM W/ CURRENT CLARK COUNTY STANDARDS & SPECIFICATIONS. REFER TO TYPE B FIXTURE ON SHEET EL—10.

 *** ALL TRAFFIC SIGNAL HEAD BACKPLATES SHALL BE INSTALLED WITH A YELLOW RETROREFLECTIVE STRIP. SEE SPECIAL PROVISIONS.
- **** PEDESTRIAN PUSH BUTTON POST. SEE DETAIL ON SHEET TS-20.

 SIGNAL LENS SHALL BE ORIENTED SUCH THAT ARROWS FACE UPWAF

STREET NAME SIGN SCHEDULE

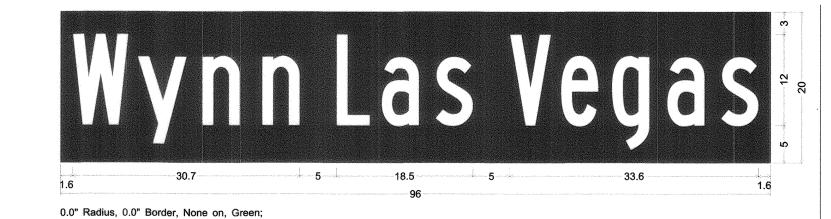
POLE					
NO.	DIRECTION	DIRECTION STREET NAME SUFFIX BLOCK NO.		REMARKS	
(A)		WYNN LAS VEGAS		100	REMOVE AND SALVAGE SIGN
(D)	S	LAS VEGAS	BLVD	3100	REMOVE AND SALVAGE SIGN
(E)	-	WYNN LAS VEGAS		1000	REMOVE AND SALVAGE SIGN
F		WYNN LAS VEGAS			FURNISH AND INSTALL
	S	LAS VEGAS	BLVD	3100	FURNISH AND INSTALL
(-)		WYNN LAS VEGAS			FURNISH AND INSTALL

RELOCATION NOTES

- RELOCATE DSRC UNIT FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
- RELOCATE EXISTING RED LIGHT RUNNING INDICATOR FROM EXISTING POLE TO NEW POLE ON THIS CORNER PER CCAUSD NO. 811.S1.

S Las Vegas BLVD 527 40.6 BLVD 3100 27 4 13.2 23

0.0" Radius, 0.0" Border, None on, Green;



QUADRANT

ARM, SIGNAL, PED
BUTTON (TOP VIEW)

NO.	REVISIONS	DATE	
\wedge	ISSUED FOR CONSTRUCTION	10/23/2019	
<u>/2\</u>	REVISED PER REVISION NO. 2	11/15/2019	
)			
nembel ad an ann dhe shire and dhe sand bloom belong a deptendence			
			İ
		APPROVED	i



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
WYNN DRIVEWAY TRAFFIC SIGNAL SCHEDULE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

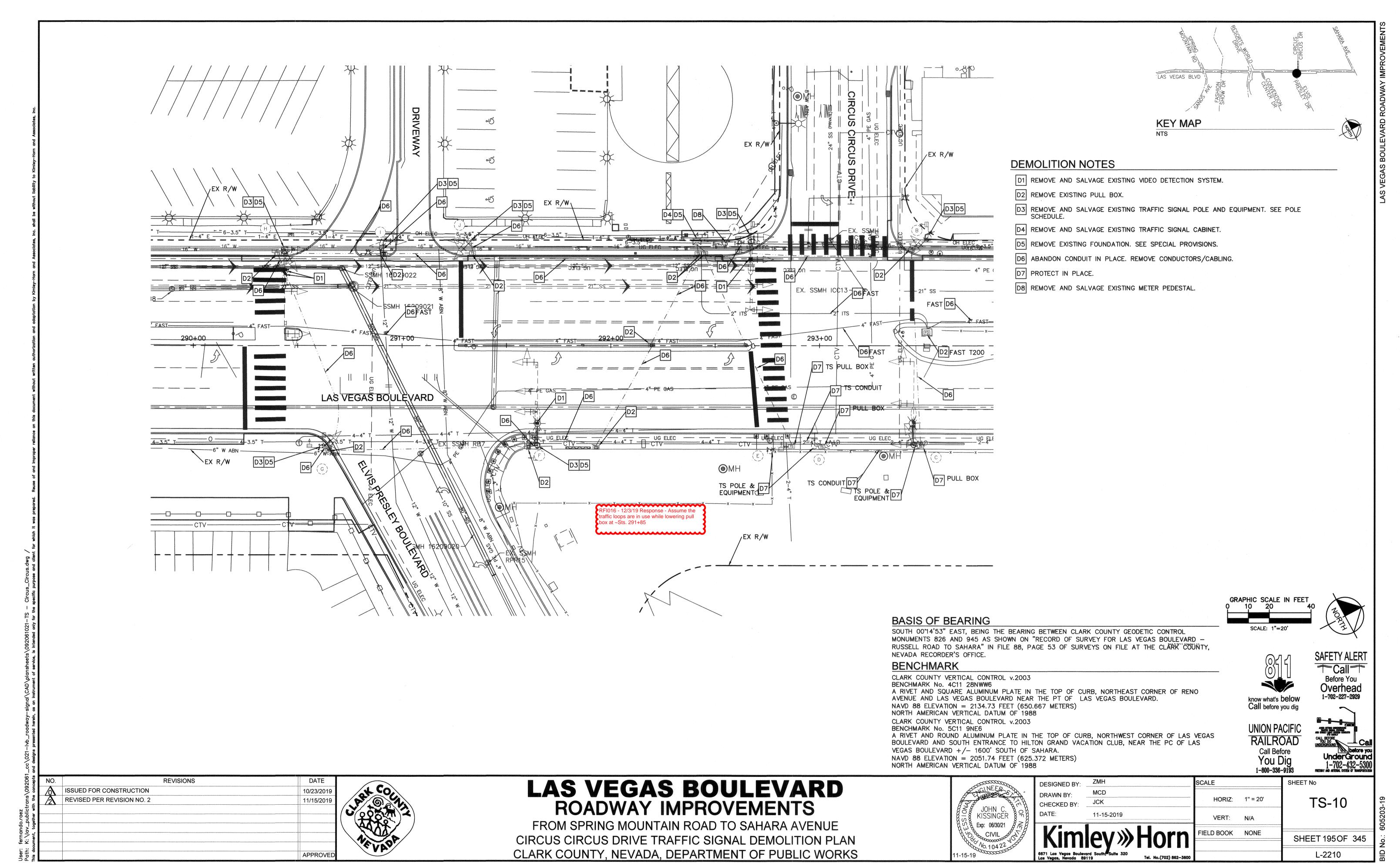
GINEFR W
JOHN C.
KISSINGER & T
Sylves & Exp: 06/30/21 8 1
CIVIL
No. 10422
11-15-19

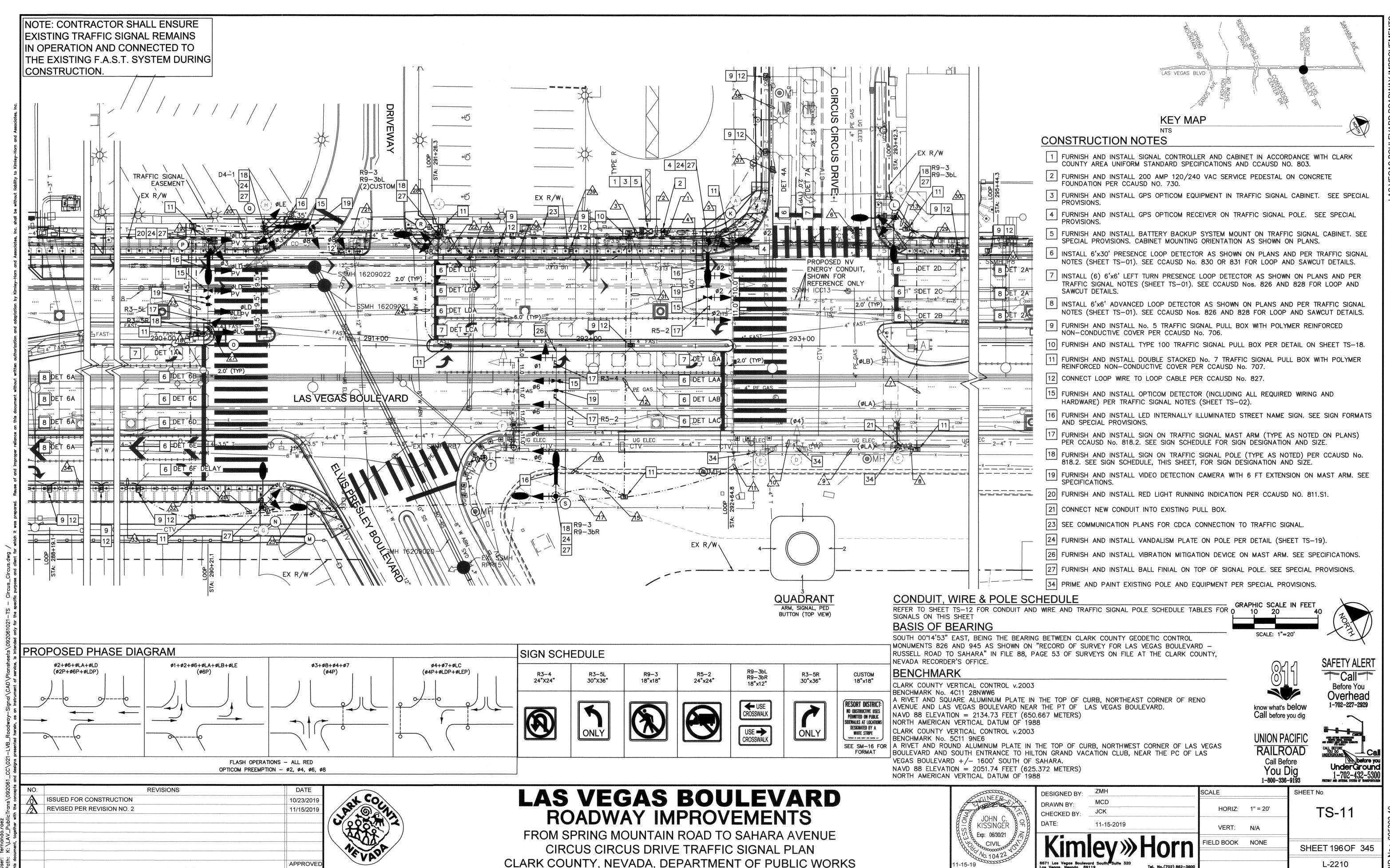
"Wynn" White B 90% spacing; "Las" White B 90% spacing; "Vegas" White B 90% spacing;

	DESIGNED BY:	ZMH	SCAI
	DRAWN BY:	MCD	
	CHECKED BY:	JCK	
	DATE:	11-15-2019	
	Kim 6671 Las Vegas Bouleva Las Vegas, Nevada 891	ey Horn rd South, Suite 320 Tel. No.(702) 862-3600	FIEL

SCALE		SHEET No
HORIZ:	N/A	TS-09
VERT:	N/A	
FIELD BOOK	NONE	SHEET 194OF 3

NO - 605203-19

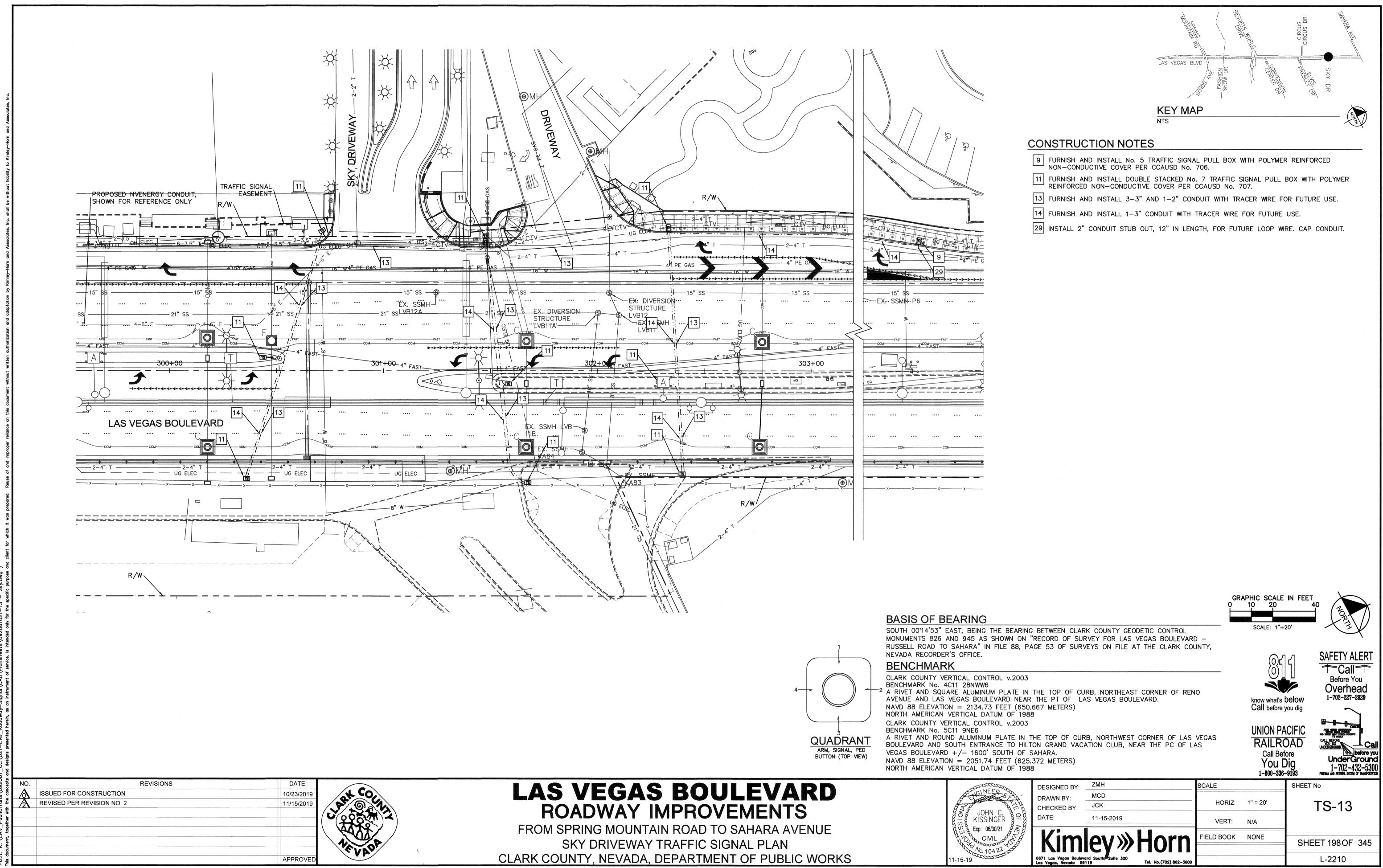


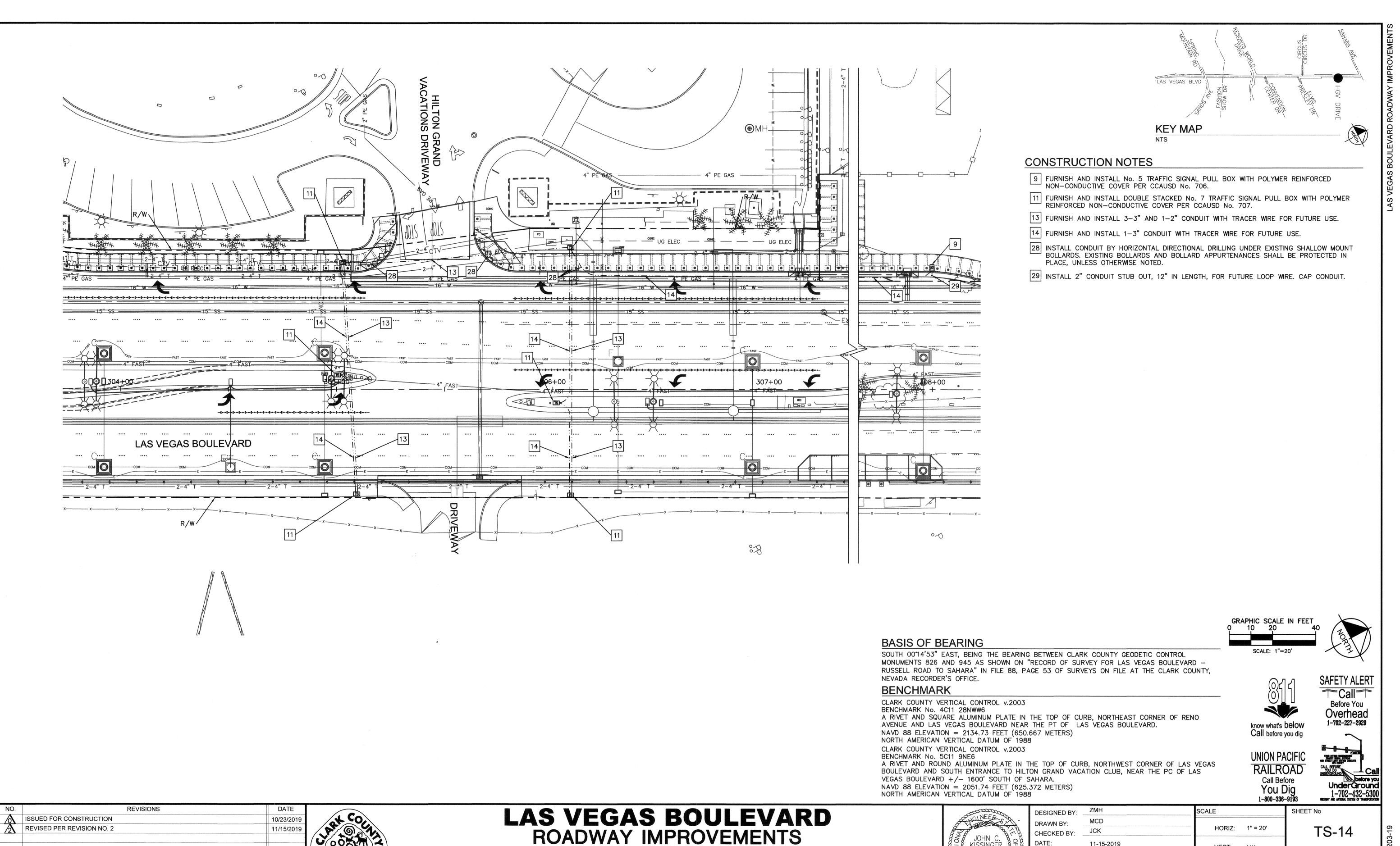


CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

I-15-19

APPROVE





FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

HILTON GRAND VACATIONS DRIVEWAY TRAFFIC SIGNAL PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

SHEET 199 OF 345 L-2210

VERT: N/A

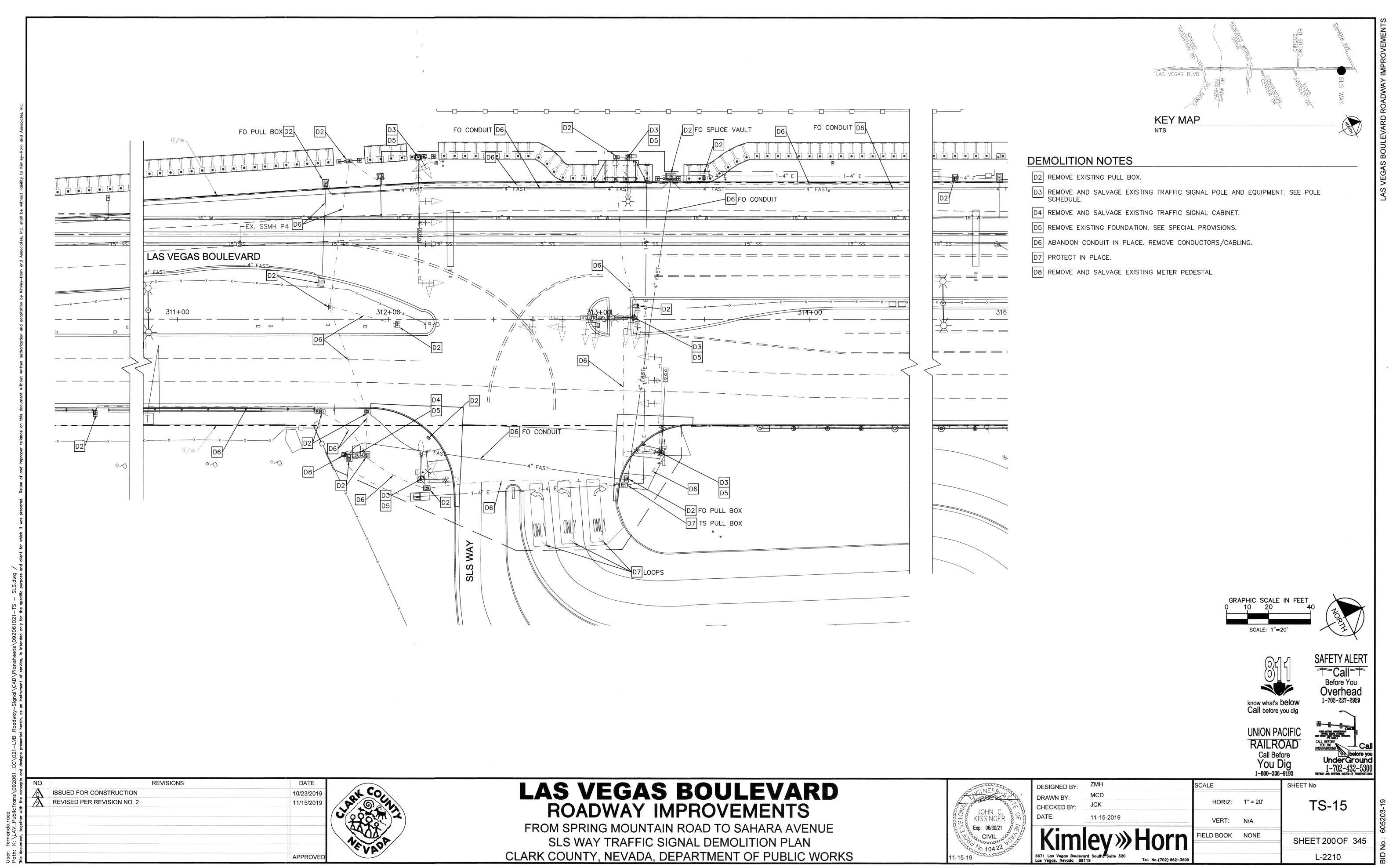
IELD BOOK NONE

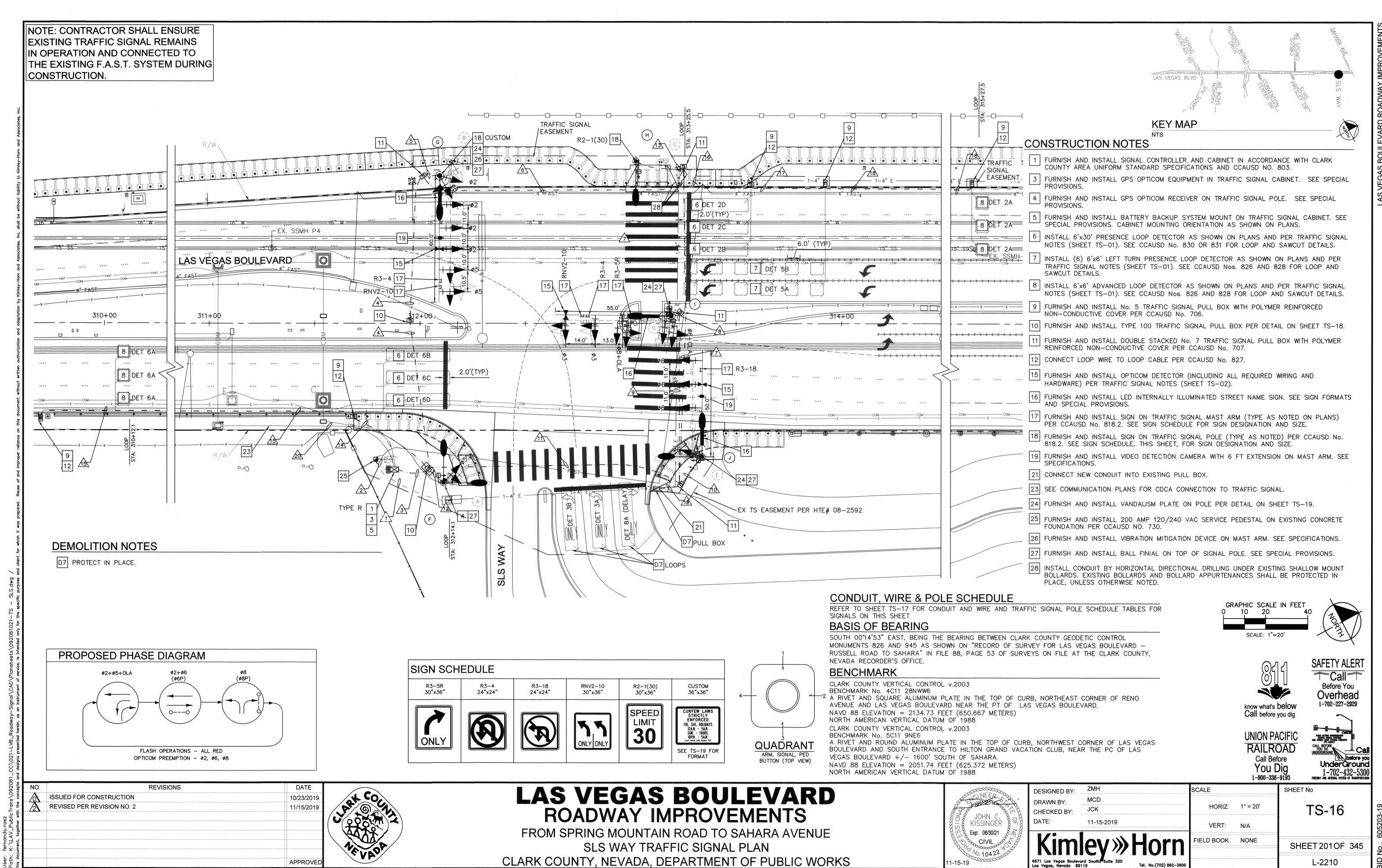
DATE:

KISSINGER

£ Exp: 06/30/21

11-15-2019





CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL CONDUITS THAT ARE EMPTY (NO CONDUCTORS/CABLING)

CURFEW LAWS
STRICTLY
ENFORCED
FRI, SAT, HOLIDAYS
12AM. - 5AM.
SUN. - THURS.
10PM. - 5AM.
Clark County Code Chapter 12.12

-	6.9	15.3	3-4	9,9-	6.9-
c	11.9	383	18.2	×5.	11.9
X	11.1	>c .	19.8	*	11.1
k	7.6	4.7 > 2.3 <	5.3 2.2	12.3	7.6
k,	11.4	× 7.3	2.2 2.2	6.3	11.4
-	11.3	5.4	2.2 2.2	8.4	11.3
/	11.6		— 2.3 2.3 ←	-6.2	11.6
ė	—8.7 ——	-3.55	5—- -3.3+ -	-5.6	8.7

2.0" Radius, 1.0" Border, 0.5" Indent, Black on, White;
"CURFEW LAWS" D; "STRICTLY" D; "ENFORCED" D;
"FRI., SAT., HOLIDAYS" B 75% spacing; "12A.M. - 5A.M." B 75% spacing;
"SUN. - THURS." B 75% spacing; "10P.M. - 5A.M." B 75% spacing;
"Clark County Code Chapter 12.12" B 75% spacing;

PO	LE	SCI	HE	DU	ILE	ı
		***************************************			-	-

	POLE						SIGNALS				PEDESTRIAN PUSH BUTTON		DED 11	GHT INDI	CATORS									
		1 OLL		_		yenerianidesiineen eessiin sees		VEHICLE **	**	PEDESTRI	AN	PUSH E	BUTTON	NED LI	יוטאוו וווט	CATORS								
POLE	LOCATION STATION & OFFSET	LOCATION STATION & OFFSET	TYPE	FOUND	MAST	ARM*	LUMIN	NAIRE**	TYPE	QUAD	TYPE	QUAD	ARROW	QUAD	TYPE	PHASE	OLIAD	EMERGENCY VEHICLE DETECTOR	REMARKS					
OLL	(LAS VEGAS BOULEVARD) TOP OF FOUNDATION ELEV.	HEIGHT		1 1	.1 1	LENGTH	QUAD	LENGTH	1112	Q(O/D	7 11 L	QOAD	AIIIOW	QOAD.		THASE	QOAD.							
	STA: 312+15.35	(EX)	(5)			(5)()	(5)()	(4) 5 57 (5)()	4 (5)()	W 07 (5)()														
(A)	OFF: 75.25' RT	(EX)	(EX)	(EX)	(EX)	(EX)		-	(EX)	(EX)	(1) B-5T (EX)	1 (EX)	W-OT (EX)	4	LT	1	-	-	_	_	SEE TS-15			
(B)	STA: 312+14.07	(EX)	(EX)	(EV)	(EX)	(EX)	/EV)	(1) M-2L (EX) (3) M-2 (EX)	MA (EX) MA (EX)									055 70 45						
	OFF: 76.46' LT	(EX)	(EX)	(EX)	(EA)	(EA)	(EX)	(1) B-2T (EX)	1 (EX)		-	_		_	_		_	SEE TS-15						
(c)	STA: 313+13.57	(EX)	(EX)	40004		(EX)	(EX)		shows	W-OT (EX)	2	LT	2	Opens		_		SEE TS-15						
OF	OFF: 76.53' LT	(EX)	(L/)			(LX)	(EA)		_	W-OT (EX)	2	L1	2	-		_	_	SEE 15-15						
(\widehat{D})	STA: 313+16.57 OFF: 0.82' LT	(EX)	EX) (EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(EX)	(1) MAS-5A (EX) (2) M-2L (EX)	MA (EX) MA (EX)	W-3T (EX)	2	LT/RT	4					SEE TS-15				
		(EX)				,				()	()	\	(-//	(-//	(LN)	(=//)	(=/,	(1) B-11T (EX)	2 (EX)	W OT (EX)		LIJIKI	T	
(E)	STA: 313+29.43 OFF: 62.79' RT	(EX)	(EX) (EX)	(EX)	(EX)	(EX)	(EX)	eleman.		(EX)	(EX)	(3) M-2 (EX)	MA (EX)	W-4T (EX)	3	LT	4		_		_	SEE TS-15		
		(EX)						(=//)	(=//)	\-\\\	(L/)	(L/)	(L/)	(=//)			(4.7)	(LX)	(1) B-1T (EX)	3 (EX)	W TI (EX)	J	<u> </u>	T
(F)	STA: 312+11.21	XX-A	4	ı	L			1	15'	(1) B-5T	1	W-OT	1	LT	1		_	_	_	41 FROM (A)				
	OFF: 75.24' RT	30'	<u> </u>			2	15'	, (1) 6–31		W-01		L-1						I NOW (A)						
(G)	STA: 312+09.31	XX-B	М	3	60'	3	15'	(2) M-2L (3) M-2	MA MA	_	_	_	_	RED	ø2	4	TWO WAY	42 43 FROM (B)						
	OFF: 69.93' LT	30'	171		00		10.	(1) B-2T	1					BLUE	ø3	T	1WO WA1							
(H)	STA: 313+02.40	XX-A			*****	3	15'			W-OT	2	LT	2		_	***	_	40 44 FROM (C)						
	OFF: 76.80' LT	30'					10			W-01		L'	2	_				[10] 1 TROW (C)						
	STA: 313+19.11	XX-B	М	4	55'	4	15'	(1) MAS-5A (2) M-2L	MA MA	W-3T	2	LT/RT	4		_		ONE WAY							
	OFF: 3.73' LT	OFF: 3.73' LT 30'	IAI	Т	JJ	Т	10	(1) B-11T	2	W-31		L1/111	4	_			ONE WAT							
	STA: 313+33.83	XX-A	L	1	50'	1	15'	(3) M-2	MA	W-4T	3	LT 4	4 RED	ø6	2	TWO WAY	43 FROM (E)							
	OFF: 62.51' RT	30'		'	JU	4	15'	(1) B-1T	3	VV — 4 1	J	RT	1	BLUE	ø5		IWO WAT	LI TROM (E)						

* CONTRACTOR SHALL PROVIDE SIGNAL MAST ARM AT LENGTH SPECIFIED IN POLE SCHEDULE. CONTRACTOR SHALL PROVIDE WEATHER TYPE CAP AT THE END OF THE MAST ARM AND SHALL BE APPROVED BY THE ENGINEER. TENONS TO BE FIELD DRILLED PER SPACING SPECIFIED ON LAYOUT SHEET AND SHALL BE PRIMED AND PAINTED.

** PROPOSED LUMINARIES SHALL CONFORM W/ CURRENT CLARK COUNTY STANDARDS & SPECIFICATIONS. REFER TO TYPE B FIXTURE ON SHEET EL-10.

*** ALL TRAFFIC SIGNAL HEAD BACKPLATES SHALL BE INSTALLED WITH A YELLOW RETROREFLECTIVE STRIP. SEE SPECIAL PROVISIONS.

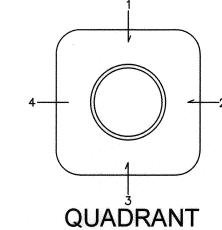
STREET NAME SIGN SCHEDULE

POLE					
NO. DIRECTION		STREET NAME	SUFFIX	BLOCK NO.	REMARKS
(B)	E	SLS	WAY	0	REMOVE AND SALVAGE SIGN
(D)	S	LAS VEGAS	BLVD	2500	REMOVE AND SALVAGE SIGN
(E)	E	SLS	WAY	0	REMOVE AND SALVAGE SIGN
G	advantes	SLS	WAY		FURNISH AND INSTALL
$\overline{\bigcirc}$	S	LAS VEGAS	BLVD	2500	FURNISH AND INSTALL
(-)		SLS	WAY		FURNISH AND INSTALL

RELOCATION NOTES

- RELOCATE, MAKE OPERATIONAL, AND TEST A FAST CCTV CAMERA SYSTEM. SUPPLY A CAMERA CABLE FROM THE CCTV CAMERA TO THE TRAFFIC ACTUATED CONTROLLER. SEE "F.A.S.T. CAMERA RELOCATION NOTES" ON SHEET TS-03.
- RELOCATE DSRC UNIT FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
- RELOCATE METRO DOME CAMERA FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
- RELOCATE EXISTING RED LIGHT RUNNING INDICATOR FROM EXISTING POLE TO NEW POLE ON THIS CORNER PER CCAUSD NO. 811.S1.
- REMOVE AND SALVAGE EXISTING CAMERA EXTENSION POLE. FURNISH AND INSTALL CAMERA EXTENSION POLE (11'-8" HIGH RISE) PER NDOT DETAIL T-33.11.2. EXTENSION POLE SHALL BE PRIMED AND PAINTED. COLOR SHALL BE FIR GREEN (RAL6009) METALLIC.

S S WAY 27 1 10.5 2.5 96 0.0" Radius, 0.0" Border, None on, Green;



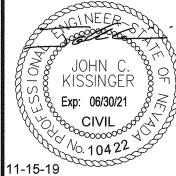
ARM, SIGNAL, PED BUTTON (TOP VIEW)

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

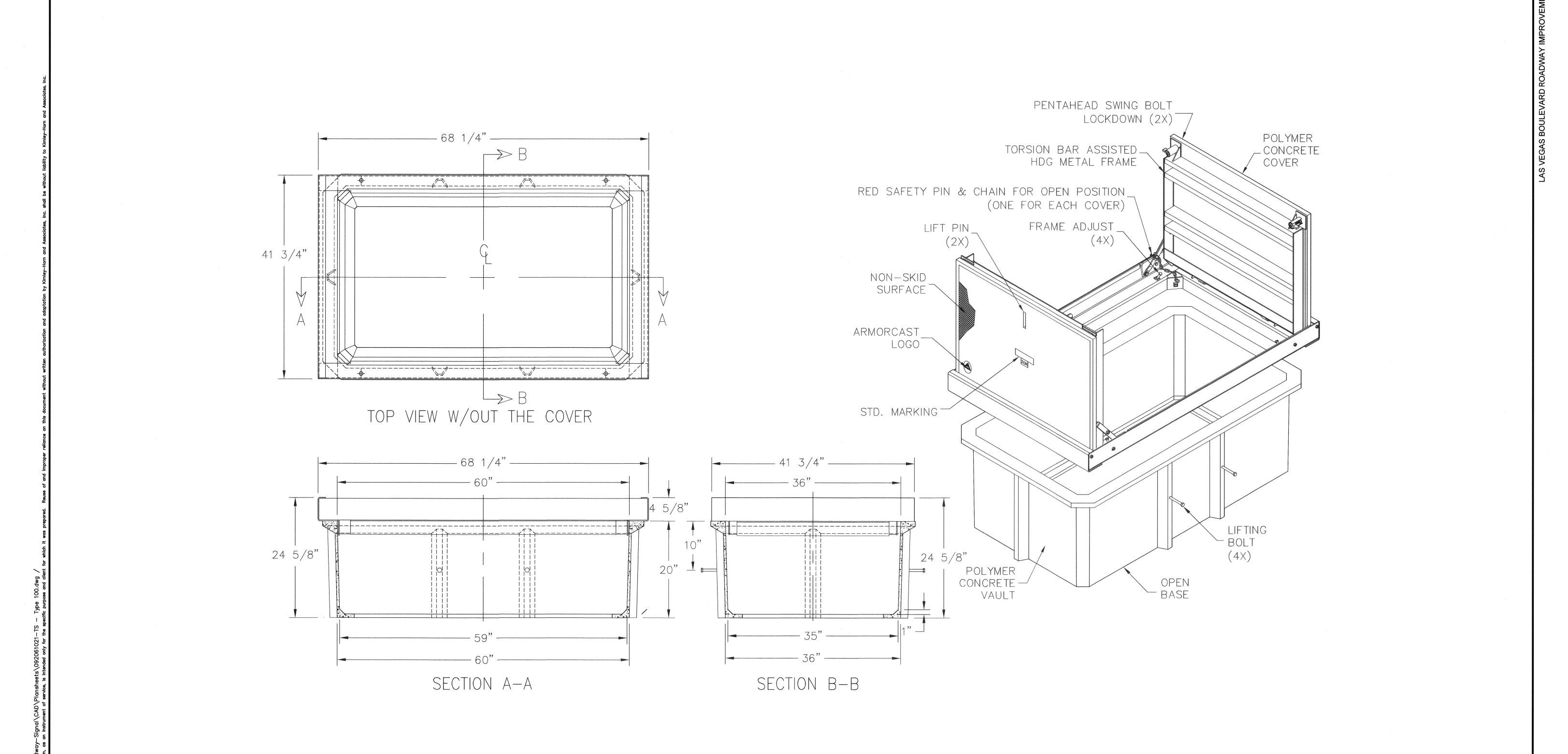
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
SLS WAY TRAFFIC SIGNAL SCHEDULE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



"S" White C; "Las" White C; "Vegas" White C; "BLVD" White C; "2500" White C

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λ	CHECKED BY:	JCK		
8	DATE:	11-15-2019		
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TYPE 100 PULLBOX DETAIL

10/23/2019 ISSUED FOR CONSTRUCTION REVISED PER REVISION NO. 2 11/15/2019

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

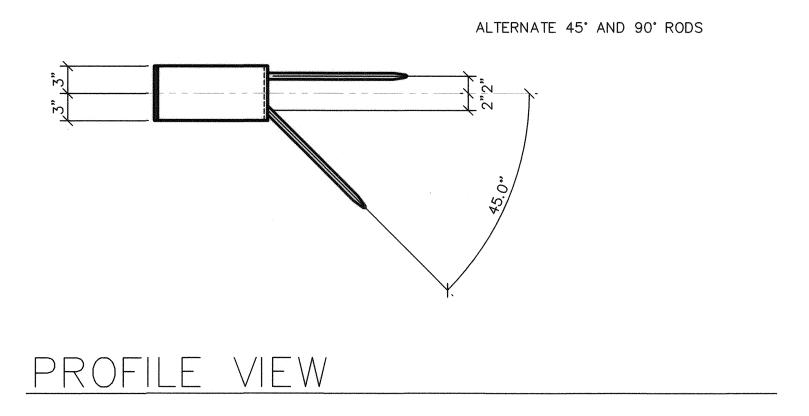
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE TYPE 100 PULLBOX DETAIL CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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JOHN C.
JOHN C. SOFTH
CIVIL
No. 104 22

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Tel. No.(702) 862-3600		

SHEET No TS-18 SHEET 203 OF 345 L-2210



VANDALISM PLATE DETAIL

O. REVISIONS DATE 10/23/2019 REVISED PER REVISION NO. 2 11/15/2019

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
VANDALISM PLATE DETAIL
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

JOHN C. KISSINGER Exp: 06/30/21 CIVIL Vo. 104 22

DESIGNED BY:

DRAWN BY:

CHECKED BY:

DATE:

11-15-2019

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For Law Yorks Routhward South Suite 320

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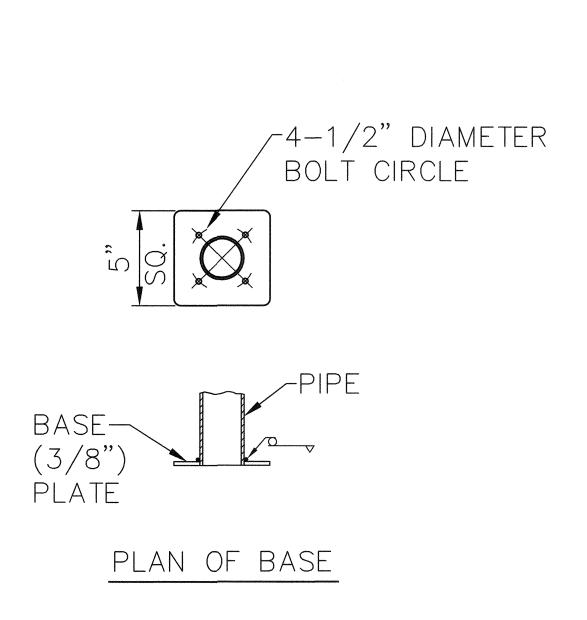
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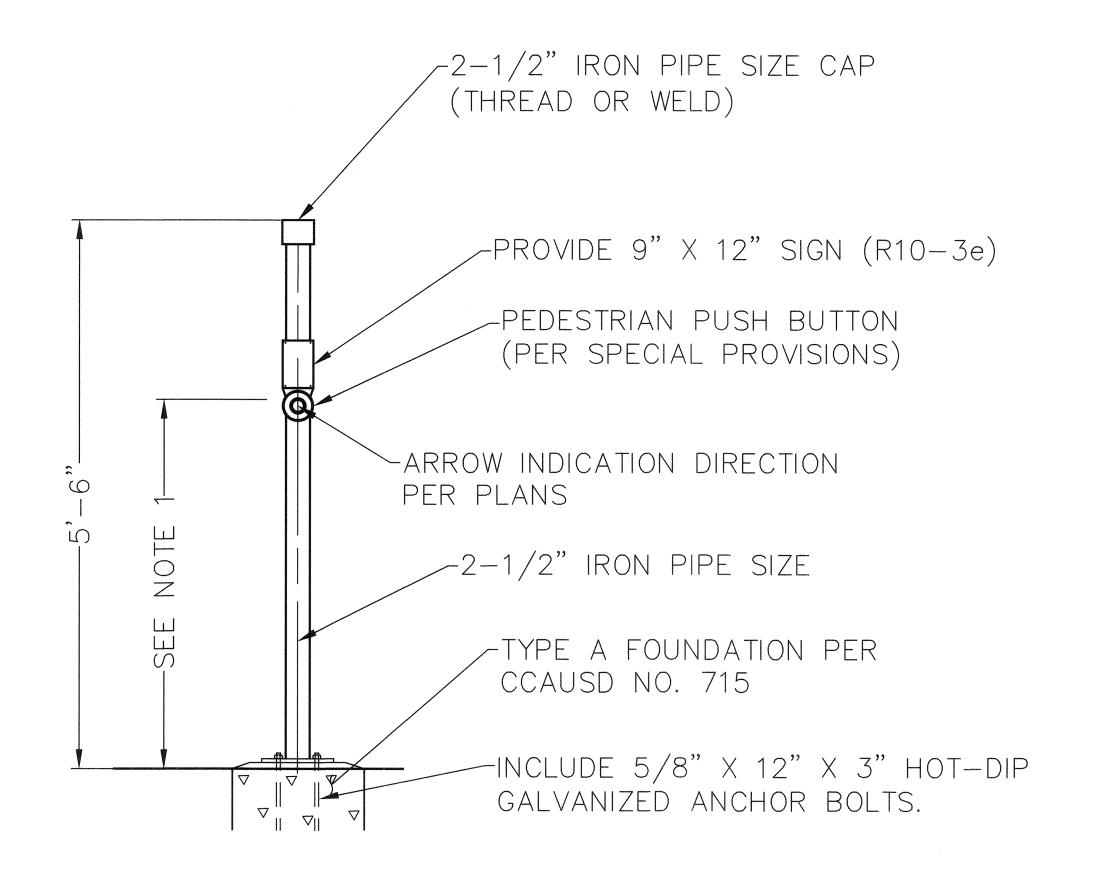
TS-19
SHEET 204 OF 345
L-2210

ISSUED FOR CONSTRUCTION

NOTES

- 1. ONE (1) COMPLETE VANDALISM SET CONSISTS OF TWO (2) VANDALISM PLATES AS SHOWN IN THE DETAIL
- 2. BOLTS FOR ONE (1) COMPLETE VANDALISM PLATE SET SHALL INCLUDE:
 - •TWO (2) 1/2φ A325 HEX BOLTS
 - TWO (2) 1/2" A563 GRDH HEX NUTS
 - •FOUR (4) 1/2" F436 FLAT WASHERS
 - TWO (2) 1/2" LOCK WASHERS
- 3. PLATES AND SHAPES PER ASTM A36
- 4. STRUCTURAL STEEL SHALL BE GALVANIZED PER ASTM A123
- 5. HARDWARE SHALL BE GALVANIZED PER ASTM A153
- 6. DIMENSIONS OF FLAT BAR TO BE DETERMINED BASED ON THE DIMENSIONS OF THE SIGNAL POLE 6" BELOW MAST ARM.
- 7. VANDALISM PLATES SHALL BE PRIMED AND PAINTED. THE COLOR SHALL BE FIR GREEN (RAL6009) METALLIC.





<u>NOTE</u>S:

- 1. PEDESTRIAN PUSH BUTTON SHALL BE LOCATED AT A MAXIMUM HEIGHT OF 44" FROM THE SURFACE OF THE WALK.
- 2. POST SHALL BE PRIMED AND PAINTED COLOR FIR GREEN (RAL 6009) METALLIC.

PEDESTRIAN PUSH BUTTON POST DETAIL

NO. REVISIONS

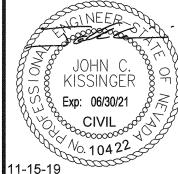
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
PEDESTRIAN PUSH BUTTON POST DETAIL
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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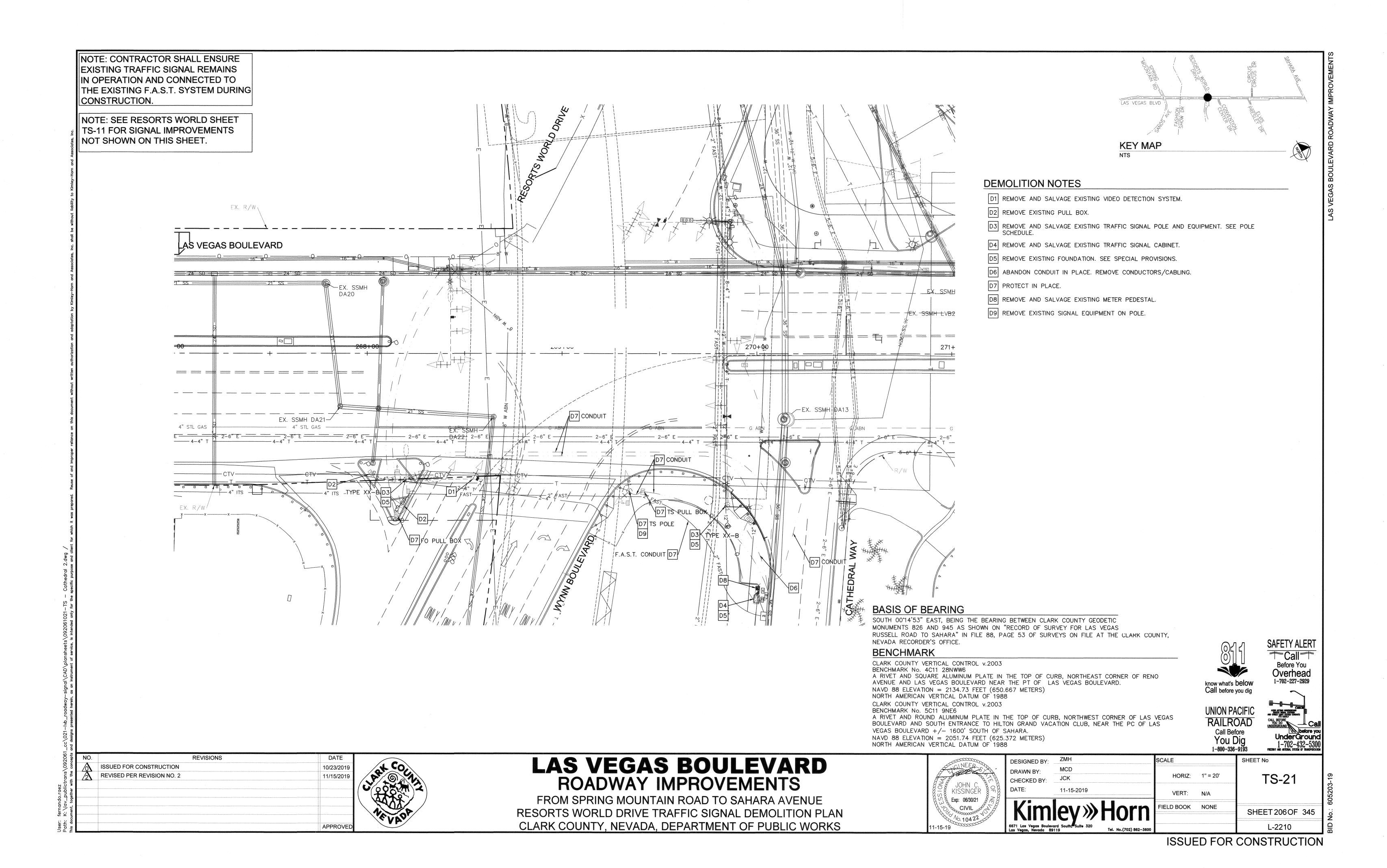
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FIELD BOOK NONE SHEET 205 OF 345

L-2210



FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

RESORTS WORLD DRIVE (EAST SIDE) TRAFFIC SIGNAL PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

LVB-GENTING INTERSECTION REVISION

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SHEET 207 OF 345

ISSUED FOR CONSTRUCTION

L-2210

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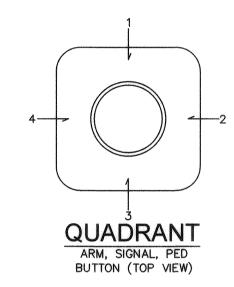
* CONTRACTOR SHALL PROVIDE SIGNAL MAST ARM AT LENGTH SPECIFIED IN POLE SCHEDULE. CONTRACTOR SHALL PROVIDE WEATHER TYPE CAP AT THE END OF THE MAST ARM AND SHALL BE APPROVED BY THE ENGINEER. TENONS TO BE FIELD DRILLED PER SPACING SPECIFIED ON LAYOUT SHEET AND SHALL BE PRIMED AND PAINTED.

** PROPOSED LUMINARIES SHALL CONFORM W/ CURRENT CLARK COUNTY STANDARDS & SPECIFICATIONS. REFER TO TYPE B FIXTURE ON SHEET EL—10.

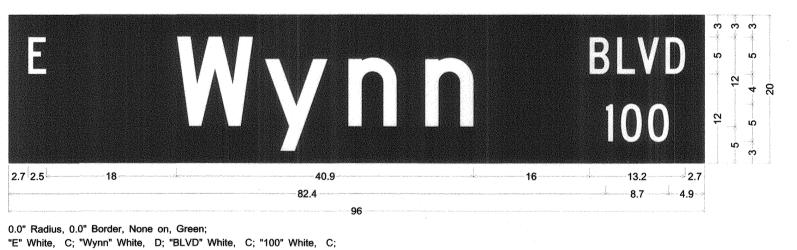
*** ALL TRAFFIC SIGNAL HEAD BACKPLATES SHALL BE INSTALLED WITH A YELLOW RETROREFLECTIVE STRIP. SEE SPECIAL PROVISIONS.

RELOCATION NOTES

- RELOCATE, MAKE OPERATIONAL, AND TEST A FAST CCTV CAMERA SYSTEM. SUPPLY A CAMERA CABLE FROM THE CCTV CAMERA TO THE TRAFFIC ACTUATED CONTROLLER. SEE "F.A.S.T. CAMERA RELOCATION NOTES" ON SHEET TS-03.
- RELOCATE DSRC UNIT FROM EXISTING POLE TO NEW POLE ON THIS CORNER. SEE SPECIFICATIONS.
- RELOCATE EXISTING RED LIGHT RUNNING INDICATOR FROM EXISTING POLE TO NEW POLE ON THIS CORNER PER CCAUSD NO. 811.S1.







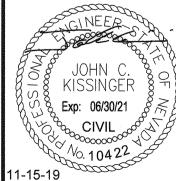
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POLE		STREET NAME SIGNS					
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(0)	S E	LAS VEGAS WYNN	BLVD BLVD	3100 100	REMOVE AND SALVAGE SIGNS		
(2)	E	CATHEDRAL	WAY	100	FURNISH AND INSTALL SIGN		
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
RESORTS WORLD TRAFFIC SIGNAL SCHEDULE
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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	6671 Las Vegas Boulevo Las Vegas, Nevada 89	rd South, Suite 320 19 Tel. No.(702) 862-3600		

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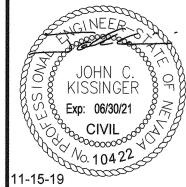
EXISTING CONDUIT NOTES ARE SHOWN FOR REFERENCE ONLY BASED ON L-1892
CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL CONDUITS THAT ARE EMPTY (NO CONDUCTORS/CABLING)
NA - UNKNOWN BASED ON AS-BUILT PLANS

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE RESORTS WORLD DRIVE TRAFFIC SIGNAL SCHEDULE CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



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,	Kim	ley»	Horn
	Las Vegas, Nevada 89	119	Tel. No.(702) 862-3600

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REVISED PER REVISION NO. 2

10/23/2019

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36 LICENSEE SHALL BE NOTIFIED 60 DAYS IN ADVANCE OF SMART POLE INSTALLATION TO RELOCATE EXISTING LEGEND EQUIPMENT TO NEAREST SMART POLE. REMOVE EXISTING POLE AND FOUNDATION PER SPECIFICATIONS. T200 PULL BOX 37 CONNECT 12 CDCA AND POWER TO NEW TVM FOUNDATION. CONTRACTOR TO COORDINATE WITH RTC FOR FINAL FOUNDATION LOCATION AND FOUNDATION P30 PULL BOX DETAILS. SEE SPECIAL PROVISIONS. 38 CAP CONDUIT AT PROJECT LIMITS FOR FUTURE 4'X6' COMMUNICATION MANHOLE EXTENSION. SEE DETAIL O ON SHEET COM-11. 6'X6' COMMUNICATION MANHOLE **GENERAL NOTES** 1. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NECESSARY TO 4'X4' F.A.S.T. MANHOLE PROTECT EXISTING IMPROVEMENTS FROM DAMAGE. ALL IMPROVEMENTS/STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S 4'X4' ELECTRICAL MANHOLE ALL PULL BOXES SHALL BE BONDED PER CCAUSD NO. 323 CONTRACTOR SHALL INSTALL ALL PROPOSED CONDUITS (TRAFFIC SIGNAL, STREET LIGHTING, INTERCONNECT, ETC.) IN THE SAME TRENCH WHENEVER POSSIBLE. REFER TO OTHER SHEETS THIS SET FOR PROPOSED DUCT COMMUNICATION CONDUIT 4. CONDUIT ROUTING AND PULL BOX PLACEMENT LOCATIONS ARE SHOWN SCHEMATICALLY ON THE PLANS AND MAY VARY IN THE FIELD.

5. CONTRACTOR SHALL COVER AND/OR CAP ALL CONDUIT ENDS IN THE PULL FAST CONDUIT ELECTRICAL CONDUIT ALL SPOIL MATERIALS SHALL BE REMOVED OFFSITE EACH DAY.
THE CONTRACTOR SHALL NOTIFY THE CLARK COUNTY SURVEYOR'S OFFICE
AT LEAST SEVENTY—TWO (72) HOURS PRIOR TO BACKFILLING
COMMUNICATIONS AND POWER DUCTS. CONTACT MR. GENE SAWYER AT



RAILROAD Call Before You Dig



KISSINGEF

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1-800-336-9193 SHEET No COM-01 SHEET 210 OF 345 L-2210

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS COMMUNICATION PLAN

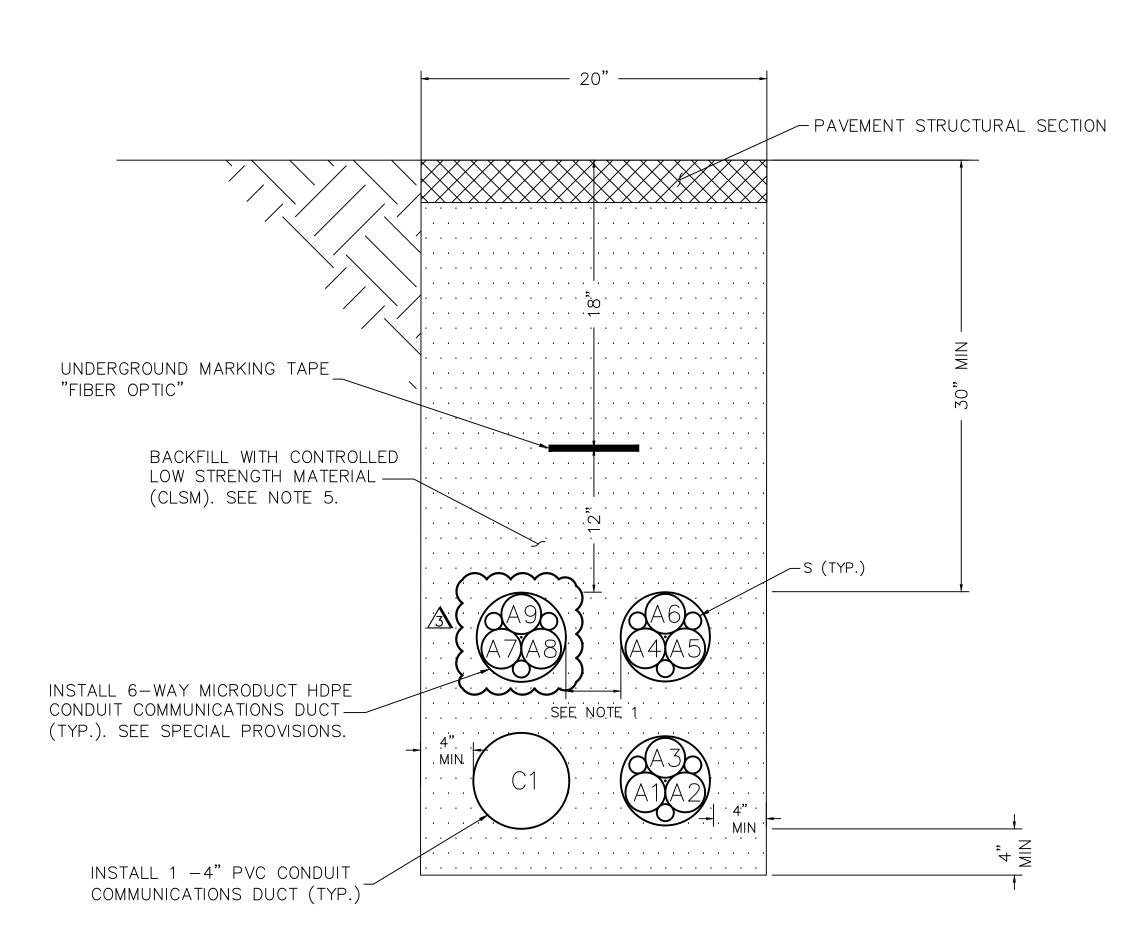
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

702-455-0644 (GENES@CLARKCOUNTYNV.GOV) OR FAX NOTICE TO 702-382-0849. AS-BUILT LOCATIONS OF BOTTOM OF TRENCH AND TOP OF ENCASEMENT MUST BE OBTAINED BY THE COUNTY SURVEYOR'S OFFICE

OR THEIR DESIGNATED ALTERNATIVE. IT IS THE CONTRACTOR'S

COLLECTED PRIOR TO BACKFILLING TRENCHES.

RESPONSIBILITY TO ENSURE ALL AS-BUILT LOCATIONS HAVE BEEN



DETAIL A COMMUNICATIONS DUCT OPEN TRENCH INSTALLATION N.T.S

OPEN TRENCH DETAIL NOTES:

- 1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATIONS.
- 2. SEE ELECTRICAL PLANS ON SHEET EL01-EL11 FOR THE INSTALLATION OF POWER DUCT IN SAME
- 3. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AND REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
- 5. CONTROLLED LOW STRENGTH MATERIALS (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.

P = PROVIDER, A = CARRIER

C = COUNTY, I = LIGHTING, S = SPARE

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE OPEN TRENCH DETAIL (1 OF 4) CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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DRAWN BY:	GDG	
DESIGNED BY:	GDG	SCA

Tel. No.(702) 862-3600

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ISSUED FOR CONSTRUCTION

- PAVEMENT STRUCTURAL SECTION UNDERGROUND - MARKING TAPE "ELECTRICAL" UNDERGROUND MARKING TAPE "FIBER OPTIC" BACKFILL WITH CONTROLLED LOW STRENGTH MATERIAL — (CLSM). SEE NOTE 5. INSTALL 2 -2" PVC CONDUITS FOR LIGHTING (TYP.) INSTALL 6-WAY MICRODUCT HDPE CONDUIT COMMUNICATIONS DUCT (TYP.) 2" CONDUITS FOR SEE SPECIAL PROVISIONS. CARRIER POWER. REFER TO SCHEDULE ON EL-10 AND INSTALL 1 -4" PVC CONDUIT - ASSOCIATED COMMUNICATIONS DUCT — CALLOUTS ON ELECTRICAL PLAN FOR QUANTITY OF CARRIER CONDUITS REQUIRED. INSTALL 3 - 4" PVC CONDUITS POWER DUCT (TYP.) COMMUNICATIONS POWER

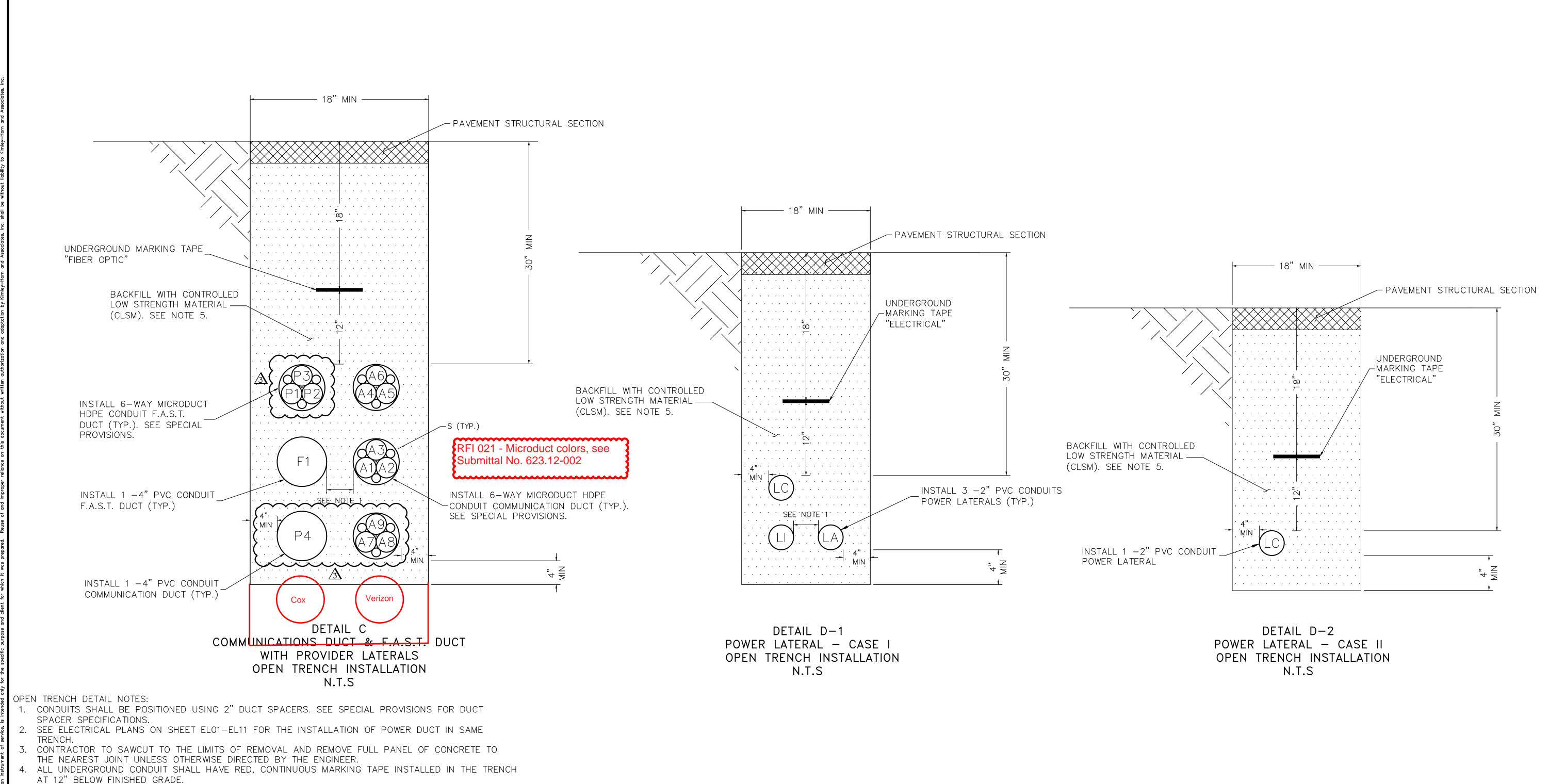
CONTRACTOR TO TROWEL DUVET IN CLSM

TO DELINEATE BETWEEN COMMUNICATION AND POWER

DETAIL B COMMUNICATIONS & POWER DUCT OPEN TRENCH INSTALLATION N.T.S

(RED CLSM)

L-2210



- 5. CONTROLLED LOW STRENGTH MATERIALS (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.
- P = PROVIDER, A = CARRIER, LI = LIGHTING LATERAL, LC = COUNTY LATERAL
- C = COUNTY, F = FAST, S = SPARE, LA = CARRIER LATERAL

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NO.	REVISIONS	DATE
\wedge	ISSUED FOR CONSTRUCTION	10/23/2019
3	REVISED PER REVISION NO. 3	01/20/2020
		APPROVED



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE
OPEN TRENCH DETAIL (2 OF 4)
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

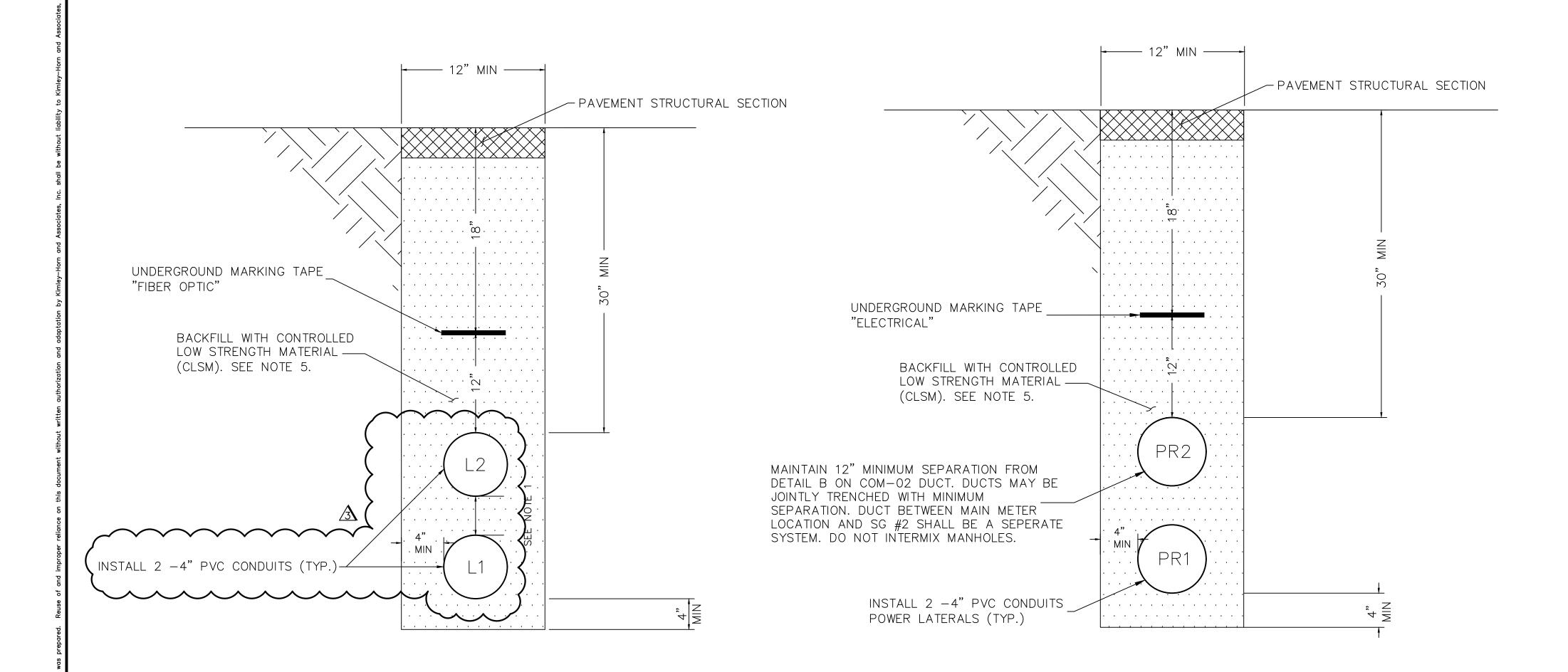
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6671 Las Vegas Bouleva		
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DATE:	01-20-2020	\
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DRAWN BY:	GDG	
DESIGNED BY:	GDG	SCALE

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	FIELD BOOK	NONE	SHEET 212 OF 345
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ISSUED FOR CONSTRUCTION

BID No.: 605203-19



UNDERGROUND MARKING TAPE

"FIBER OPTIC"

BACKFILL WITH CONTROLLED
LOW STRENGTH MATERIAL
(CLSM). SEE NOTE 5.

F2

INSTALL 2-4" PVC CONDUIT
F.A.S.T. LATERAL (TYP.)

F1

4"
MIN

**
MIN

DETAIL G-1

F.A.S.T. LATERAL

OPEN TRENCH INSTALLATION

N.T.S

DETAIL E
COMMUNICATIONS LATERAL
OPEN TRENCH INSTALLATION
N.T.S

DETAIL F
POWER SERVICE LATERAL
OPEN TRENCH INSTALLATION
N.T.S

OPEN TRENCH DETAIL NOTES:

- CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATIONS.
- 2. SEE ELECTRICAL PLANS ON SHEET EL01-EL11 FOR THE INSTALLATION OF POWER DUCT IN SAME TRENCH.
- 3. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AND REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
- 5. CONTROLLED LOW STRENGTH MATERIALS (CLSM) SHALL BE INSTALLED TO ASPHALT ROADWAY SURFACE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT, COMMUNICATIONS, AND F.A.S.T. DUCT UNLESS OTHERWISE NOTED ON THE PLANS.

A = CARRIER, PR = PRIMARY, L = COMMON USE LATERAL

C = COUNTY, F = F.A.S.T., S = SPARI

NO. REVISIONS DATE

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE OPEN TRENCH DETAIL (3 OF 4) CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

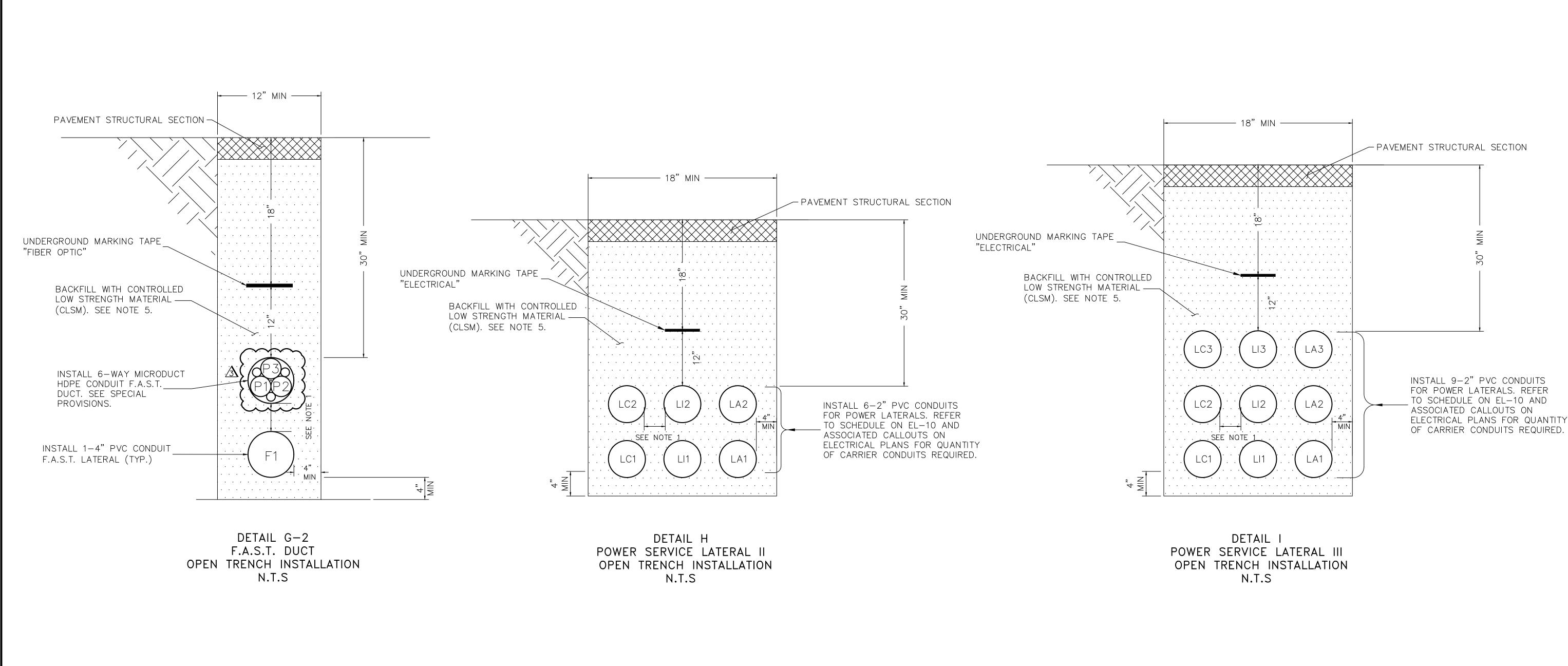
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OPEN TRENCH DETAIL NOTES:

- 1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATIONS.
- 2. SEE ELECTRICAL PLANS ON SHEET EL01—EL11 FOR THE INSTALLATION OF POWER DUCT IN SAME TRENCH.
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LI = LIGHTING LATERAL, LC = COUNTY LATERAL

E LA = CARRIER LATERAL

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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE OPEN TRENCH DETAIL (4 OF 4) CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

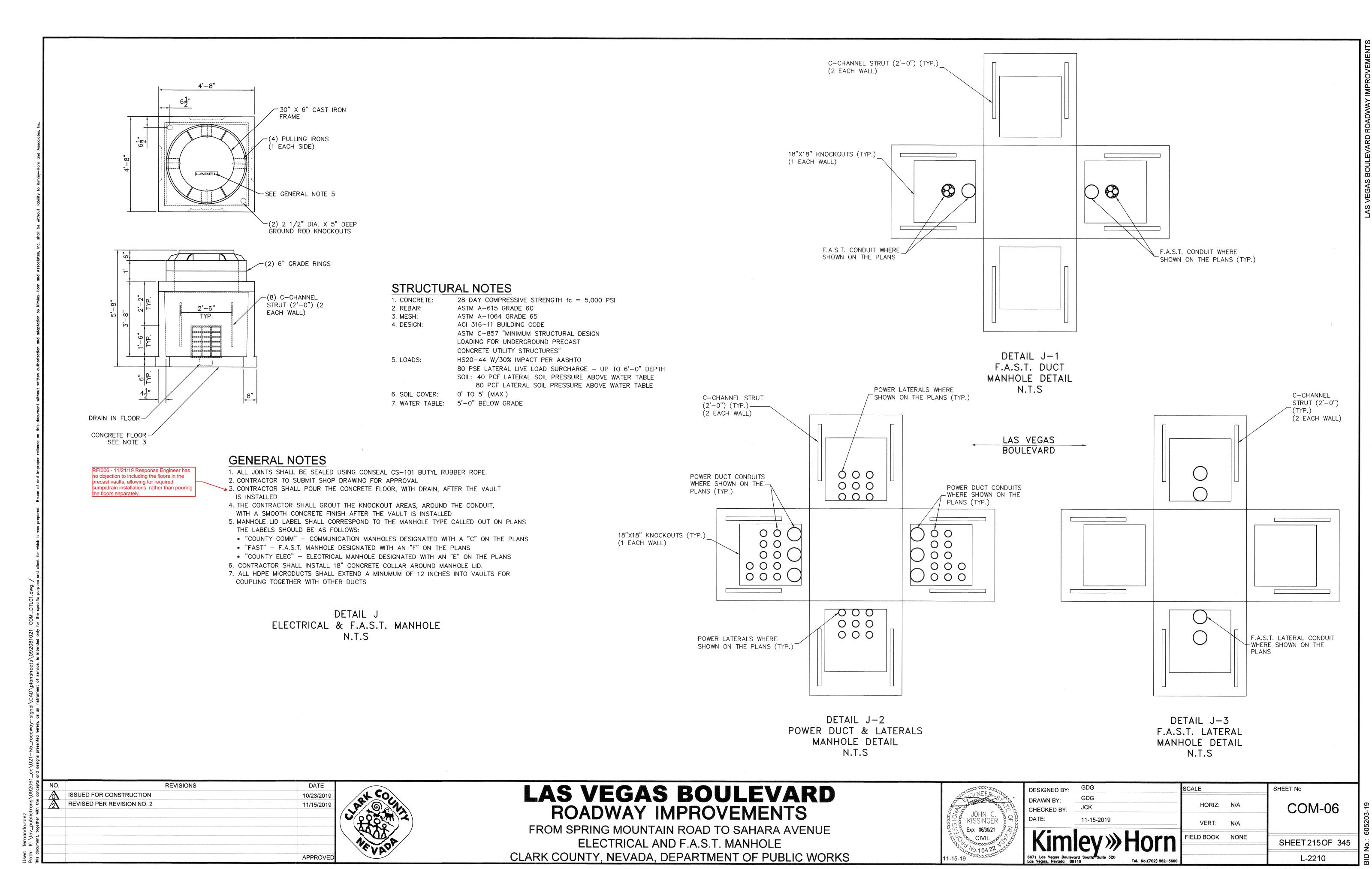
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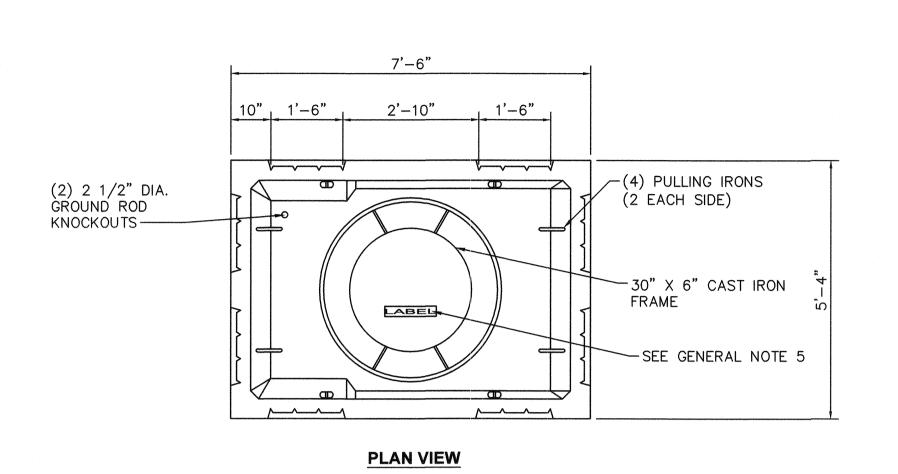
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DATE:	01-20-2020	
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DESIGNED BY:	GDG	SCA

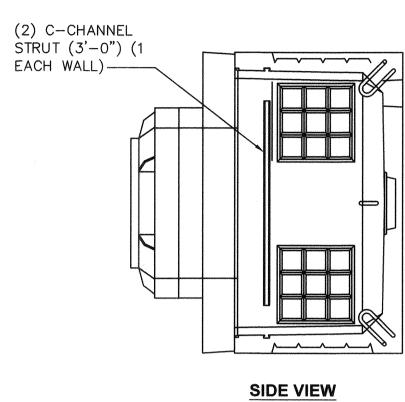
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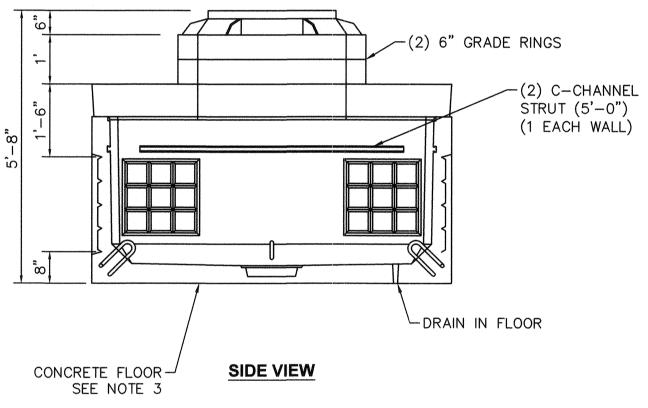
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BID No.: 605203-19









DETAIL K 4'X6' COMMUNICATION MANHOLE N.T.S

GENERAL NOTES

006 - 11/21/19 Response ineer has no objection to

luding the floors in the precast ults, allowing for required

np/drain installations, rather n pouring the floors separately

- 1. ALL JOINTS SHALL BE SEALED USING CONSEAL CS-101 BUTYL RUBBER ROPE. 2. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL
- 3. CONTRACTOR SHALL POUR THE CONCRETE FLOOR, WITH DRAIN, AFTER THE VAULT IS INSTALLED
- 4. THE CONTRACTOR SHALL GROUT THE KNOCKOUT AREAS, AROUND THE CONDUIT, WITH A SMOOTH CONCRETE FINISH AFTER THE VAULT IS INSTALLED
- 5. MANHOLE LID LABEL SHALL CORRESPOND TO THE MANHOLE TYPE CALLED OUT ON PLANS
- THE LABELS SHOULD BE AS FOLLOWS: • "COUNTY COMM" - COMMUNICATION MANHOLES DESIGNATED WITH A "C" ON THE PLANS
- 6. CONTRACTOR SHALL INSTALL 18" CONCRETE COLLAR AROUND MANHOLE LID.
- 7. ALL HDPE MICRODUCTS SHALL EXTEND A MINUMUM OF 12 INCHES INTO VAULTS FOR COUPLING TOGETHER WITH OTHER DUCTS

28 DAY COMPRESSIVE STRENGTH fc = 5,000 PSI

4. DESIGN: ACI 316-11 BUILDING CODE

CONCRETE UTILITY STRUCTURES"

80 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE

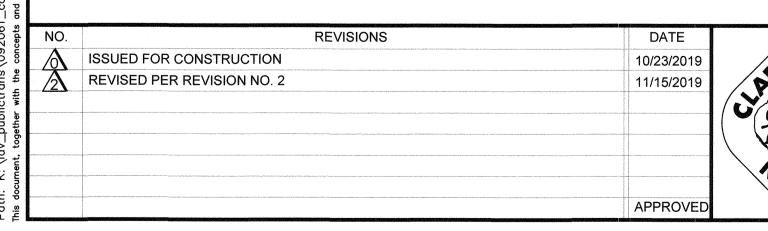
STRUCTURAL NOTES

2. REBAR: ASTM A-615 GRADE 60 3. MESH: ASTM A-1064 GRADE 65

ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST

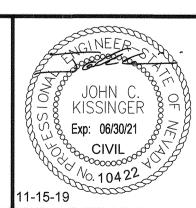
> HS20-44 W/30% IMPACT PER AASHTO 80 PSF LATERAL LIVE LOAD SURCHARGE - UP TO 6'-0" DEPTH SOIL: 40 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE

6. SOIL COVER: 0' TO 5' (MAX.) 7. WATER TABLE: 5'-0" BELOW GRADE



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE 4' X 6' COMMUNICATION MANHOLE CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



COMMUNICATION DUCT BANK CONDUITS

WHERE SHOWN ON THE PLANS (TYP.)

18"X18" MIN KNOCKOUTS

(TYP.) (2 EACH WALL)

(2) C-CHANNEL STRUT (3'-0") (1 EACH WALL)

COMMUNICATION LATERALS WHERE SHOWN ON THE PLANS (TYP.)

(2) C-CHANNEL STRUT (5'-0") (1 EACH WALL)

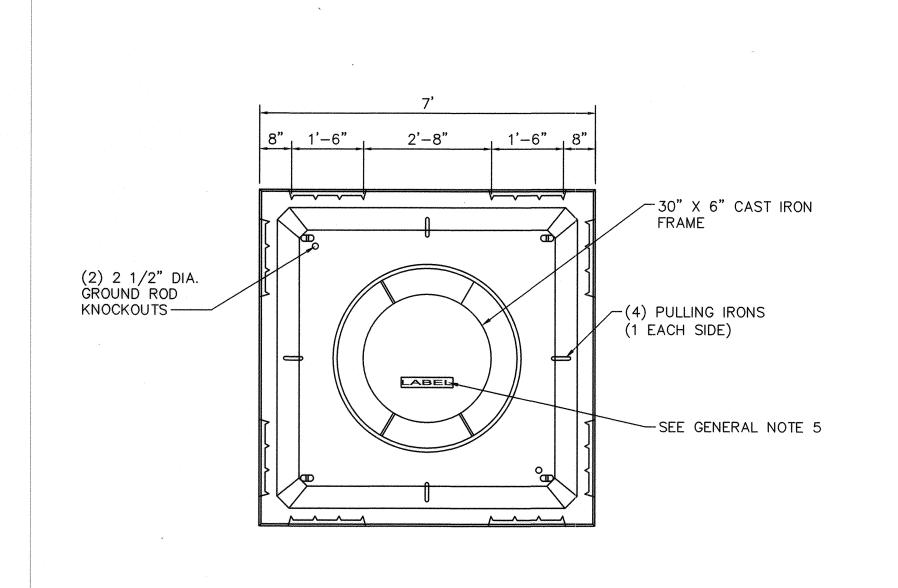
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DATE:	11-15-2019	VERT:	N/A	
Kim	ley»Horn	FIELD BOOK	NONE	SHEET
6671 Las Vegas Boulevo Las Vegas, Nevada 89	rd South, Suite 320 19 Tel. No.(702) 862-3600			L-

DETAIL K-1 COMMUNICATION DUCT BANK & LATERALS MANHOLE DETAIL N.T.S

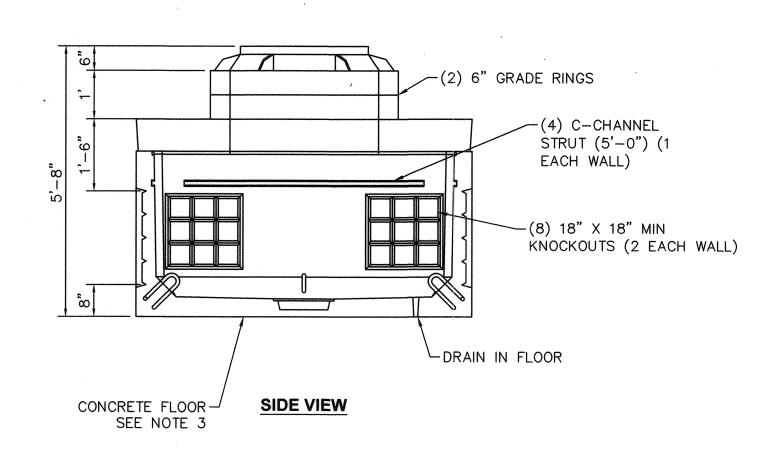
> COM-07 SHEET 216 OF 345 L-2210

ISSUED FOR CONSTRUCTION

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PLAN VIEW



COMMUNICATION DUCT BANK CONDUITS WHERE SHOWN ON THE PLANS (TYP.) 18"X18" MIN KNOCKOUTS (TYP.) (2 EACH WALL) C-CHANNEL STRUT (5'-0") (1 EACH WALL) COMMUNICATION LATERALS WHERE SHOWN ON THE PLANS (TYP.)

> DETAIL L-1 COMMUNICATION DUCT BANK & LATERALS MANHOLE DETAIL N.T.S

RFI006 - 11/21/19 Response Engineer has no objection to ncluding the floors in the recast vaults, allowing for equired sump/drain stallations, rather than pouring ne floors separately.

DETAIL L 6'x6' COMMUNICATION MANHOLE

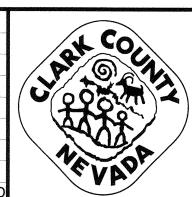
GENERAL NOTES

- 1. ALL JOINTS SHALL BE SEALED USING CONSEAL CS-101 BUTYL RUBBER ROPE.
- 2. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL
- 3. CONTRACTOR SHALL POUR THE CONCRETE FLOOR, WITH DRAIN, AFTER THE VAULT IS INSTALLED
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- 6. CONTRACTOR SHALL INSTALL 18" CONCRETE COLLAR AROUND MANHOLE LID.
- 7. ALL HDPE MICRODUCTS SHALL EXTEND A MINUMUM OF 12 INCHES INTO VAULTS FOR COUPLING TOGETHER WITH OTHER DUCTS

STRUCTURAL NOTES

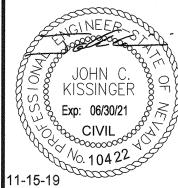
- 1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH fc = 5,000 PSI
- 2. REBAR: ASTM A-615 GRADE 60
- 3. MESH: ASTM A-1064 GRADE 65 4. DESIGN:
 - ACI 316-11 BUILDING CODE ASTM C-857 "MINIMUM STRUCTURAL DESIGN
 - LOADING FOR UNDERGROUND PRECAST
 - CONCRETE UTILITY STRUCTURES"
- 5. LOADS: HS20-44 W/30% IMPACT PER AASHTO
 - 80 PSF LATERAL LIVE LOAD SURCHARGE UP TO 6'-0" DEPTH SOIL: 40 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
 - 80 PCF LATERAL SOIL PRESSURE ABOVE WATER TABLE
- 6. SOIL COVER: 0' TO 5' (MAX.)
- 7. WATER TABLE: 5'-0" BELOW GRADE

NO.	REVISIONS	DATE
	ISSUED FOR CONSTRUCTION	10/23/2019
2	REVISED PER REVISION NO. 2	11/15/2019
		APPROVED



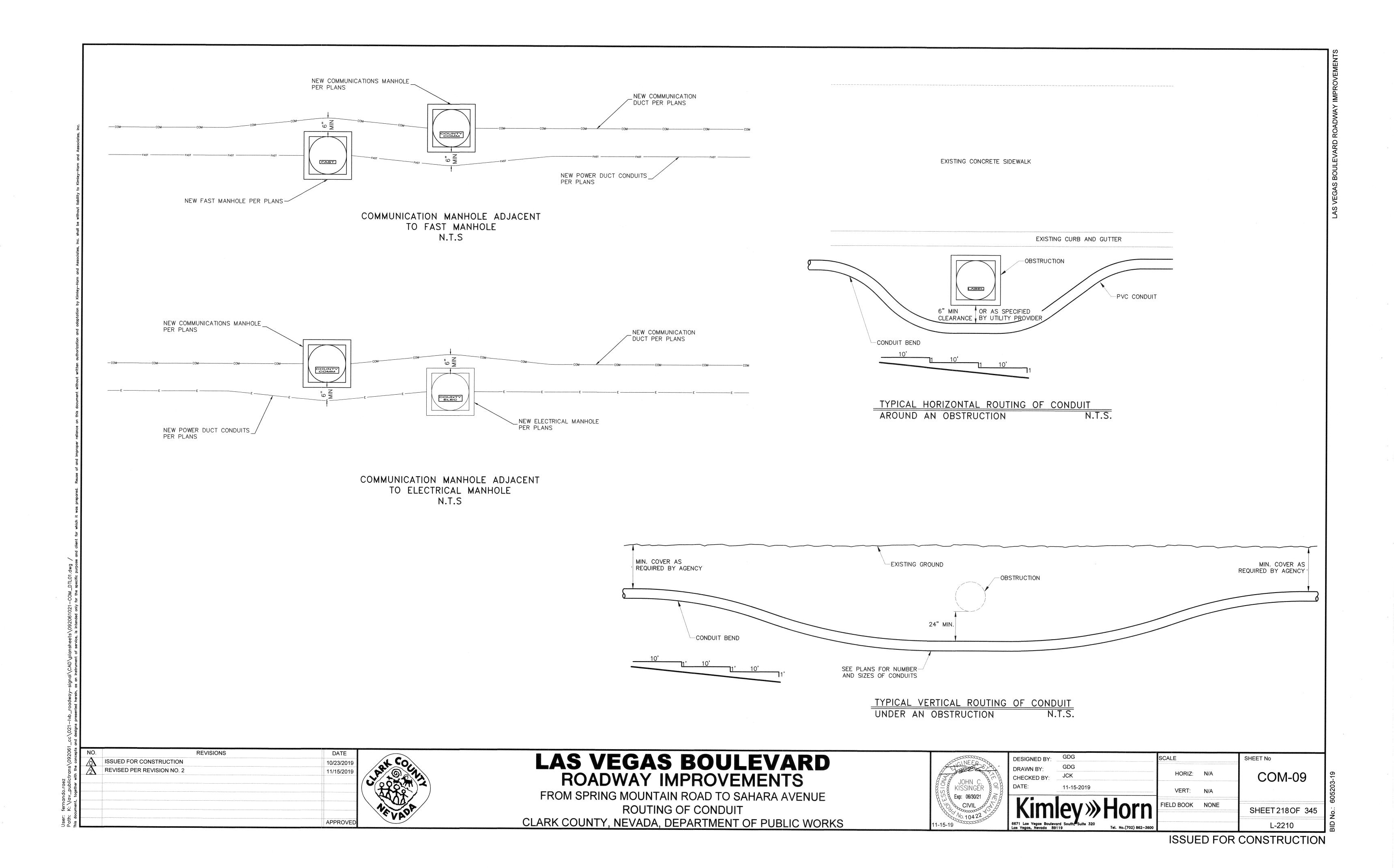
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

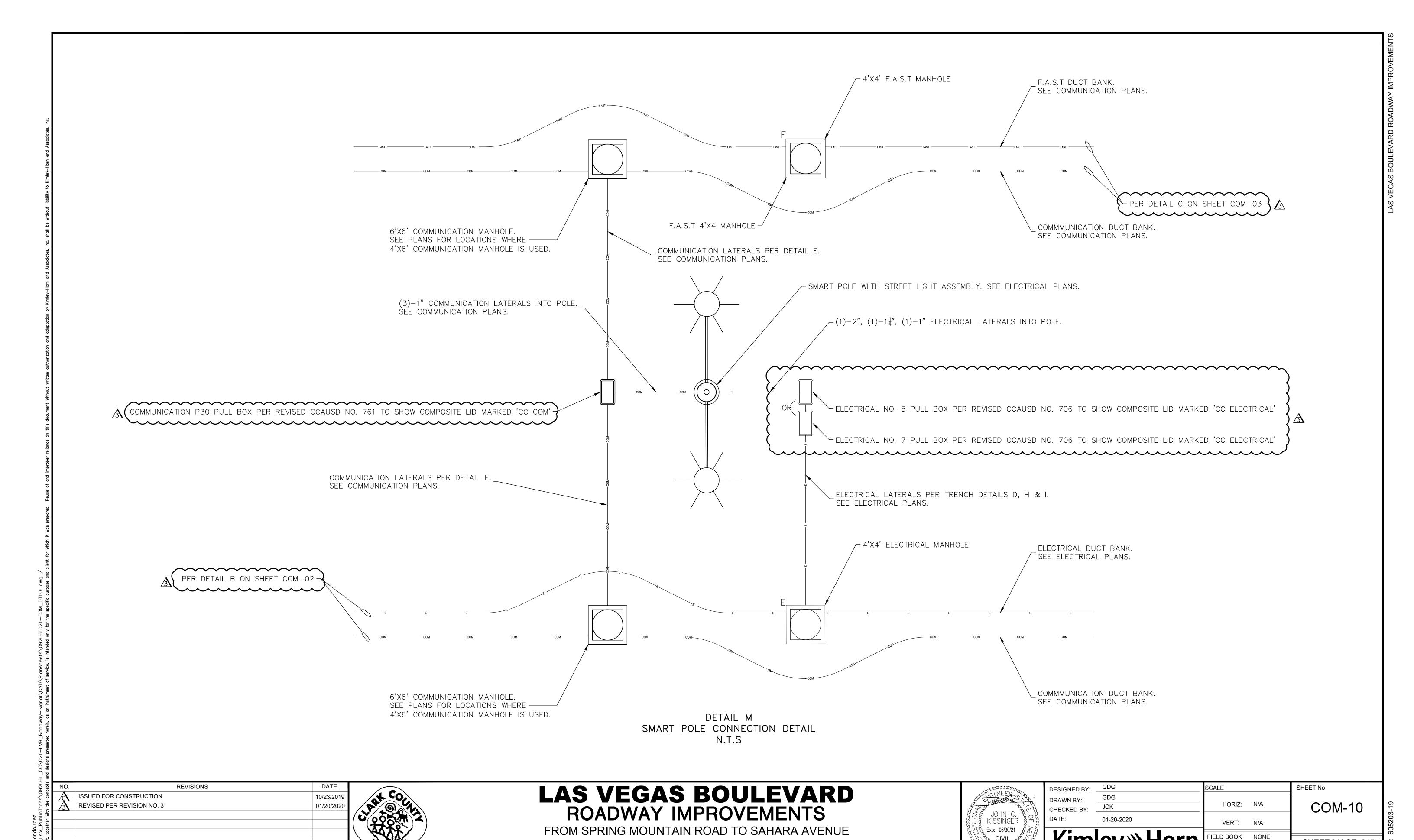
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE 6' X 6' COMMUNICATION MANHOLE CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



	DESIGNED BY: DRAWN BY: CHECKED BY: DATE:	GDG GDG JCK	GDG JCK	S
Tools .	Kim 6671 Las Vegas Bouleva Las Vegas, Nevada 891	11-15-2019 EXAMPLE 1320 Tel. No.(702) 862–3600	ley»Horn	

	SCALE		SHEET No
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	FIELD BOOK	NONE	SHEET 217 OF 345
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SMART POLE CONNECTION DETAIL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

01-20-20

APPROVE

ISSUED FOR CONSTRUCTION

SHEET 219 OF 345

L-2210

BACKFILL WITH CONTROLLED
LOW STRENGTH MATERIAL
(CLSM). SEE NOTE 5.

COMMUNICATIONS
LATERAL SEE
TRENCH DETAILS
FOR NUMBER OF
CONDUITS.

DETAIL N
CONDUIT LATERAL TRENCH WITH CAP INSTALLATION
N.T.S

BACKFILL WITH CONTROLLED
LOW SIRENGTH MATERIAL
(CLSM). SEE NOTE 5.

COMMUNICATIONS
LATERAL. SEE
TRENCH DETAILS
FOR NUMBER OF
CONDUITS.

NATIVE BACKFILL

DETAIL O
CONDUIT LATERAL TRENCH WITH CAP INSTALLATION
N.T.S

OPEN TRENCH DETAIL NOTES:

- 1. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT
- SPACER SPECIFICATIONS.

 2. SEE ELECTRICAL PLANS ON SHEET EL01—EL11 FOR THE INSTALLATION OF POWER DUCT IN SAME
- 3. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AND REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH
- +. ALL UNDERGROUND CONDUIT SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

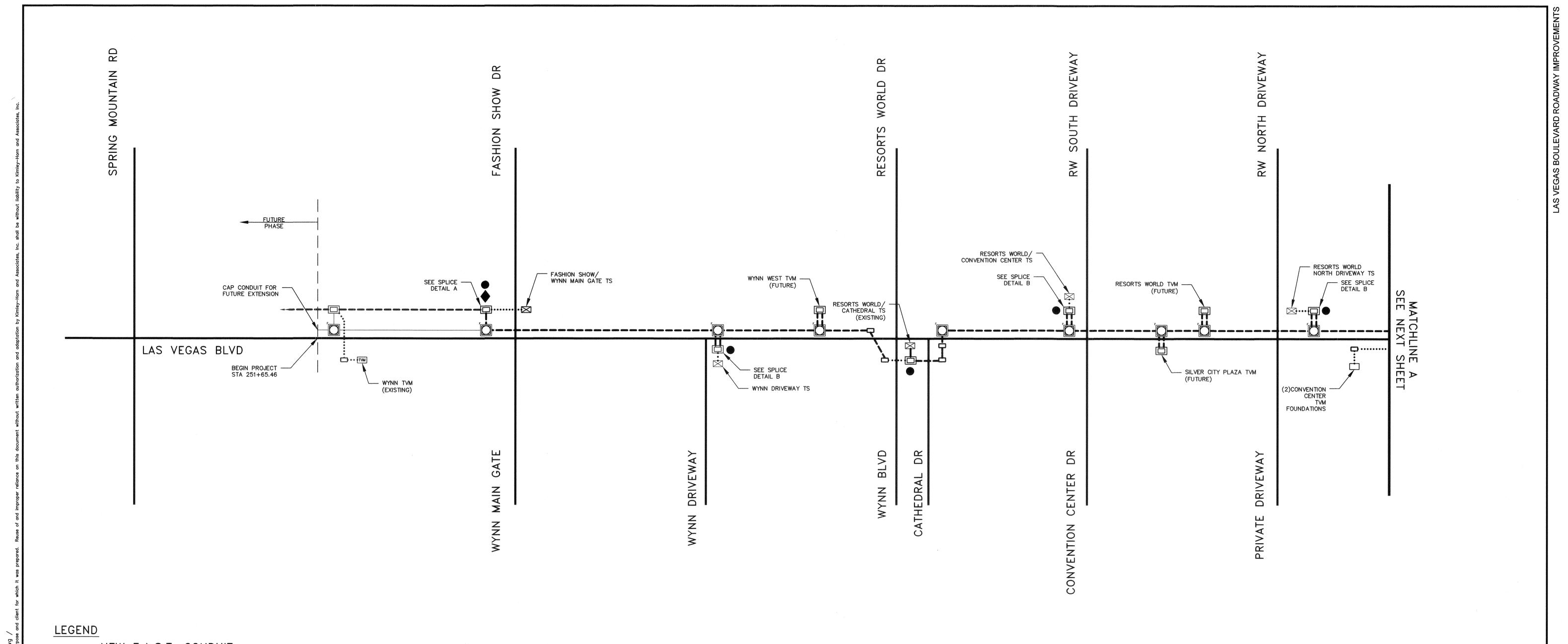
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE CONDUIT LATERAL TRENCH WITH CAP INSTALLATION DETAIL CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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- __ NEW F.A.S.T. CONDUIT (EMPTY FOR FUTURE USE)
- ---- NEW F.A.S.T. 144 SMFO
- ---- EX. F.A.S.T. 96 SMFO
- NEW F.A.S.T. 12 CDCA
- EX. F.A.S.T. 12 CDCA
- □ NEW TYPE 200 SPLICE VAULT

NEW F.A.S.T. MANHOLE

EX. TYPE 200 SPLICE VAULT

- □ NEW P30 PULL BOX
- □ EX. P30 PULL BOX
- NEW TRAFFIC SIGNAL CABINET
- EX. TICKET VENDING MACHINE
- ☐ NEW TICKET VENDING MACHINE FOUNDATION
- ▲ FULL CABLE SPLICE
- (NEW 144 SMFO TO EX. 96 SMFO)
- SPLICE TO TRAFFIC SIGNAL CIRCUIT (SEE SPLICE DETAILS)
- SPLICE TO TICKET VENDING MACHINE CIRCUIT (SEE SPLICE DETAILS)

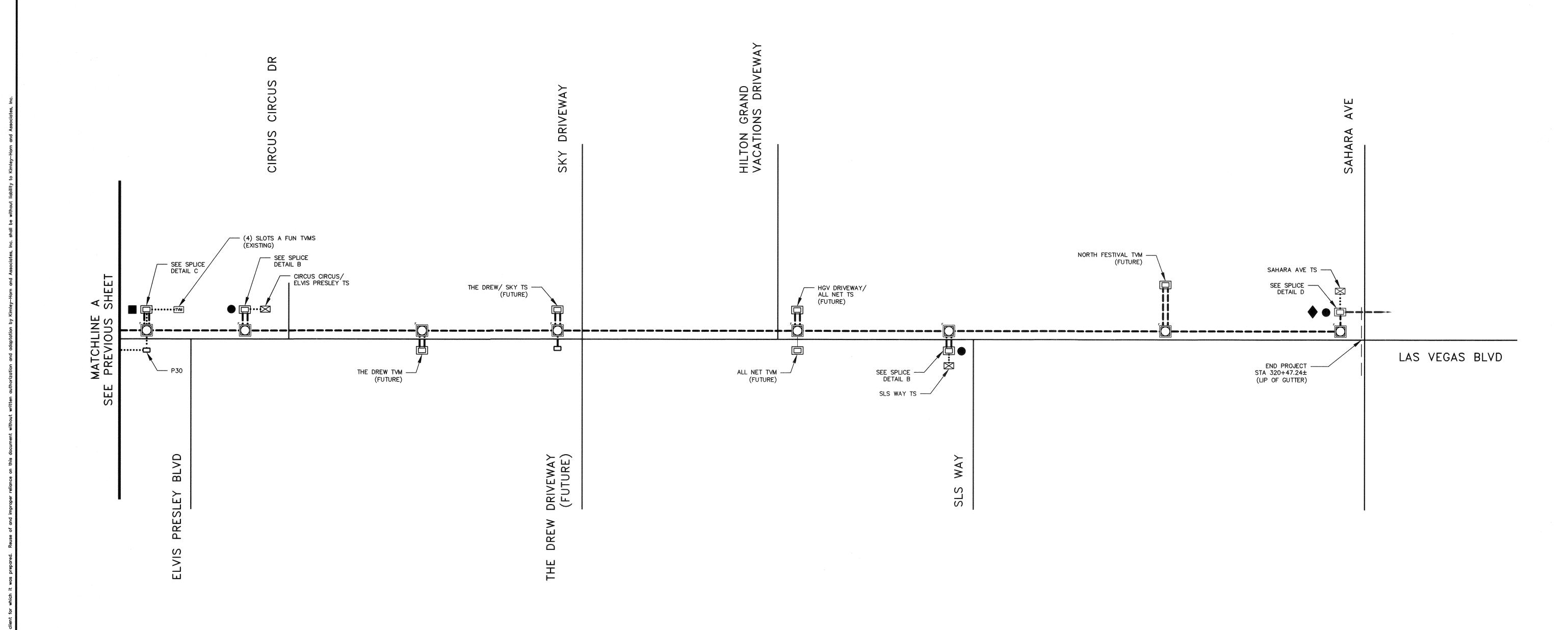
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LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE F.A.S.T. FIBER CONNECTION SCHEMATIC (1 OF 2) CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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6671 Las Vegas Bouleve Las Vegas, Nevada 89	and South, Suite 320 119 Tel. No.(702) 862-3600			L-2210



LEGEND

- __ NEW F.A.S.T. CONDUIT (EMPTY FOR FUTURE USE)
- ---- NEW F.A.S.T. 144 SMFO
- ---- EX. F.A.S.T. 96 SMFO
- NEW F.A.S.T. 12 CDCA
- EX. F.A.S.T. 12 CDCA
- NEW F.A.S.T. MANHOLE
- NEW TYPE 200 SPLICE VAULT
- EX. TYPE 200 SPLICE VAULT

- □ NEW P30 PULL BOX
- EX. P30 PULL BOX
- NEW TRAFFIC SIGNAL CABINET
- EX. TRAFFIC SIGNAL CABINET
- EX. TICKET VENDING MACHINE
- → NEW TICKET VENDING MACHINE FOUNDATION
- FULL CABLE SPLICE
- (NEW 144 SMFO TO EX. 96 SMFO)
- SPLICE TO TRAFFIC SIGNAL CIRCUIT (SEE SPLICE DETAILS)
- SPLICE TO TICKET VENDING MACHINE CIRCUIT (SEE SPLICE DETAILS)

NO.	REVISIONS	DATE
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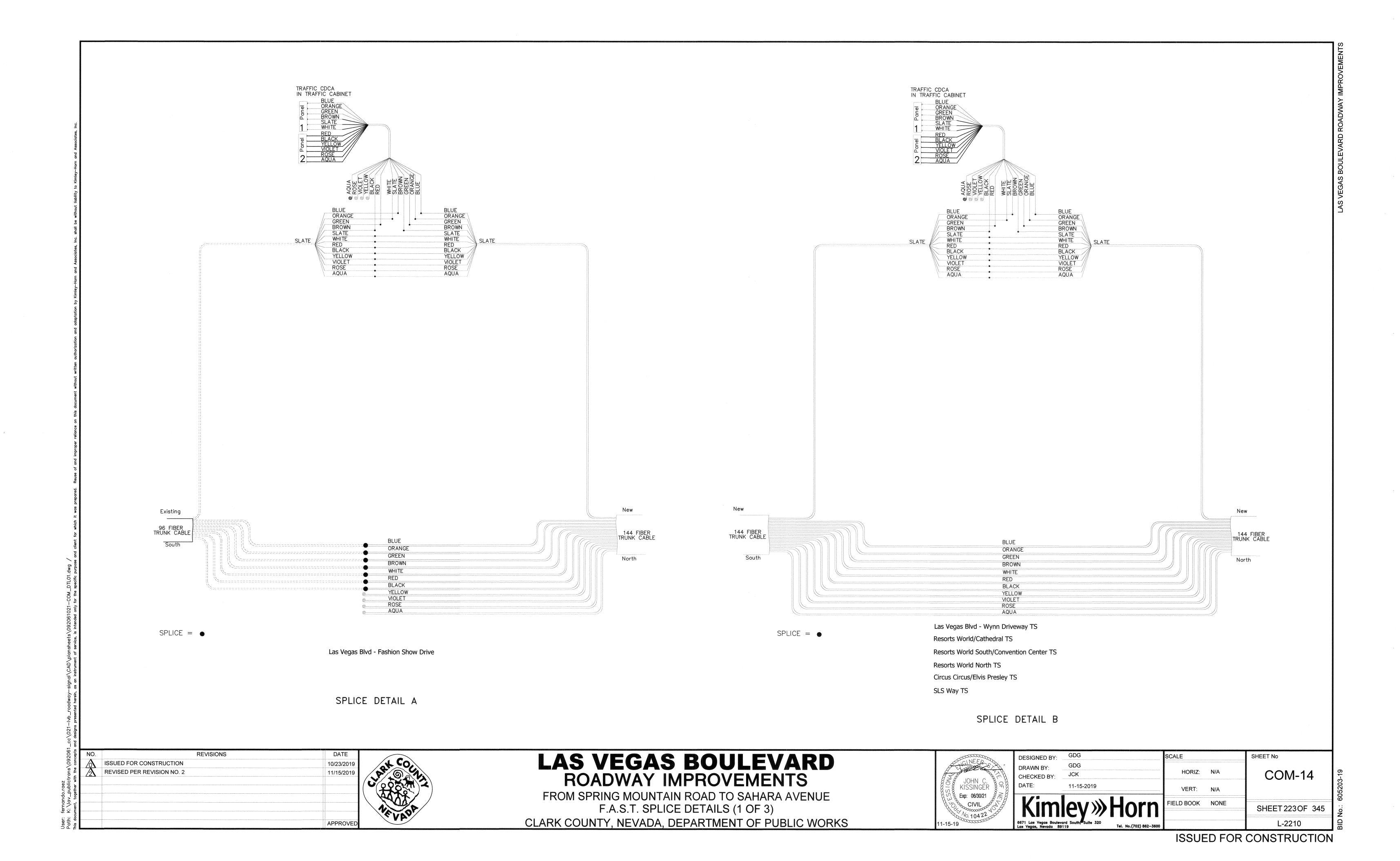
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

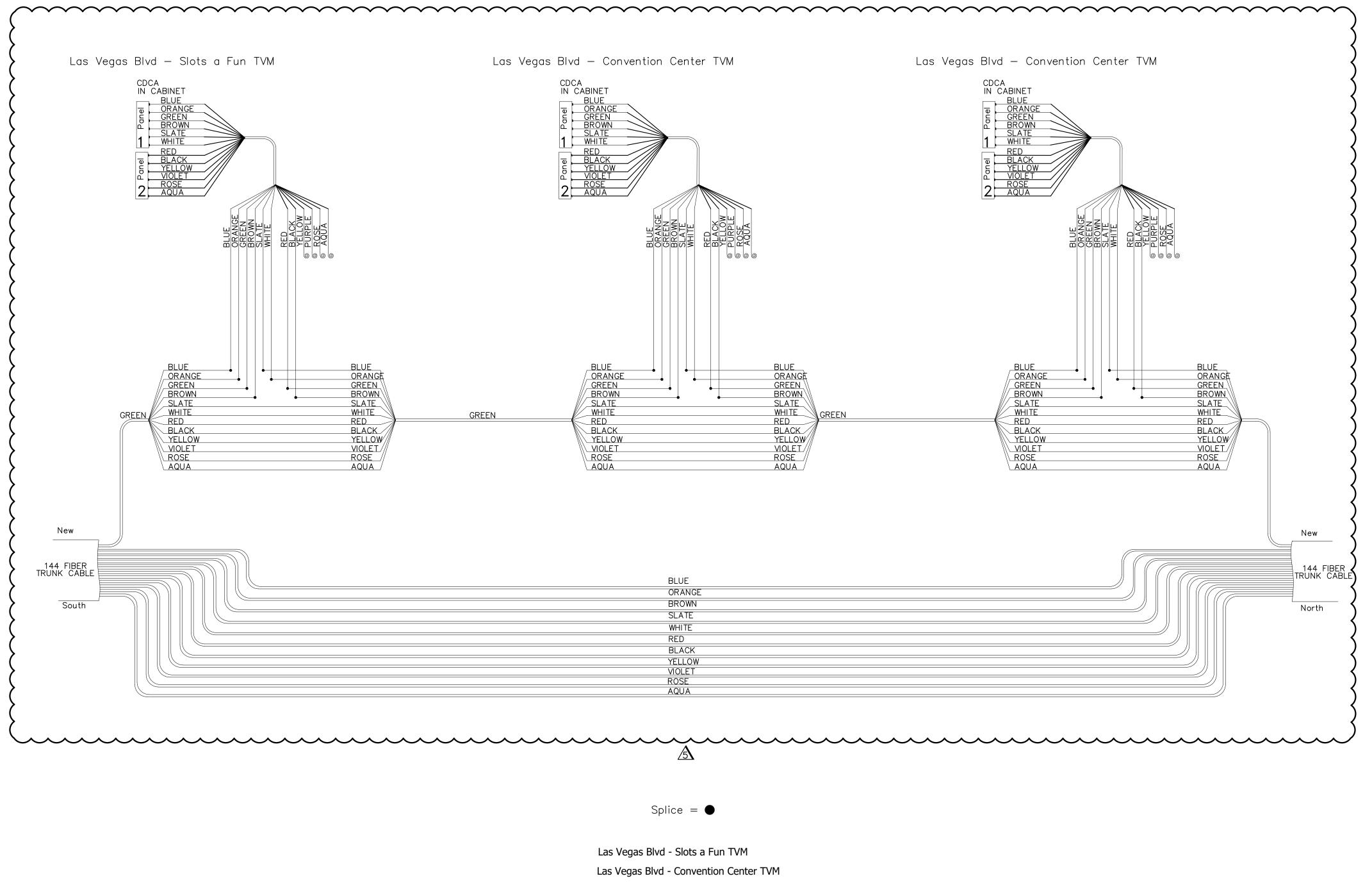
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE F.A.S.T. FIBER CONNECTION SCHEMATIC (2 OF 2) CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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SPLICE DETAIL C

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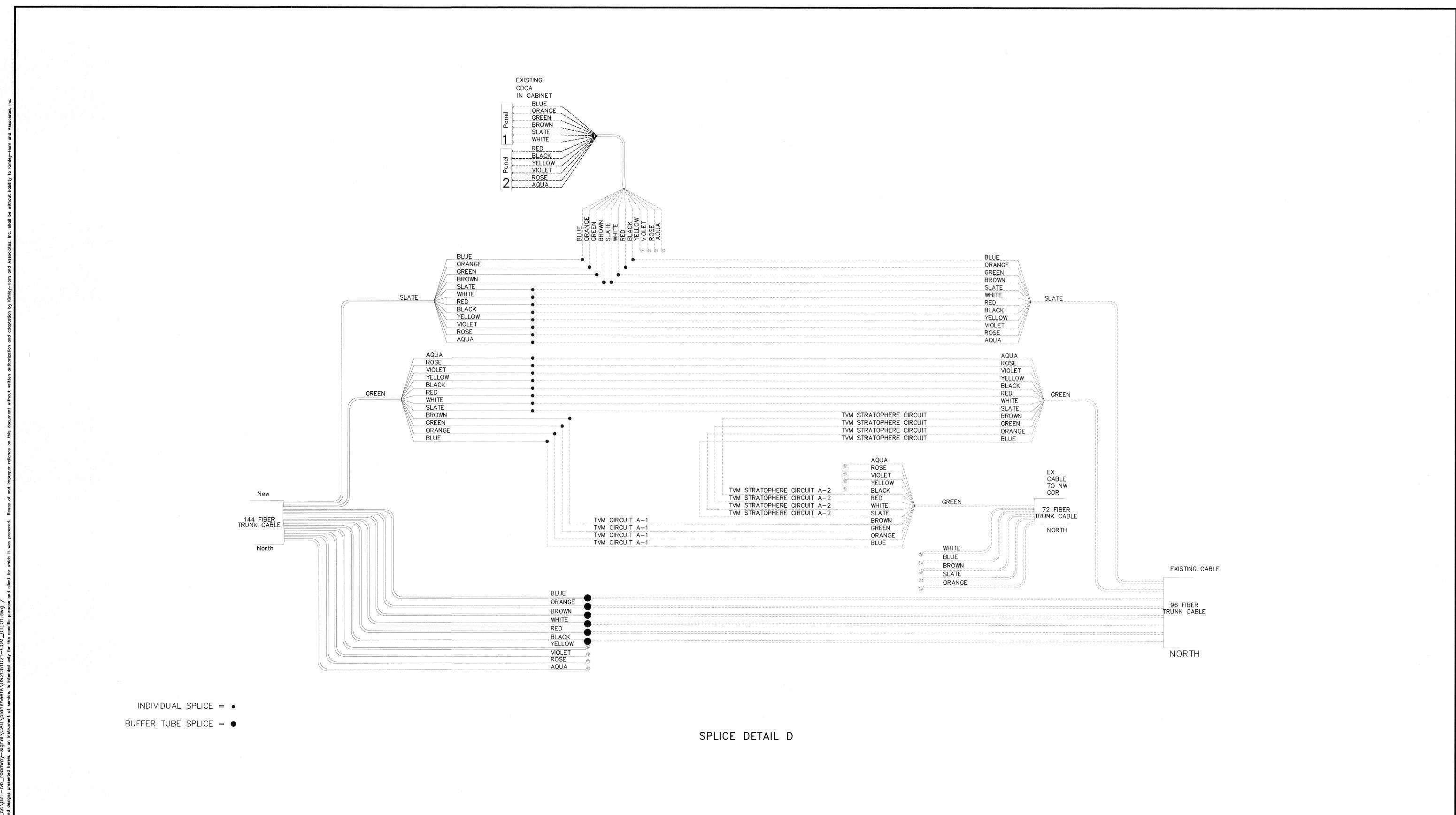
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE F.A.S.T. SPLICE DETAILS (2 OF 3) CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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DRAWN BY:	GDG	
DESIGNED BY: .	GDG	SCALE

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REVISIONS

ISSUED FOR CONSTRUCTION

REVISED PER REVISION NO. 2

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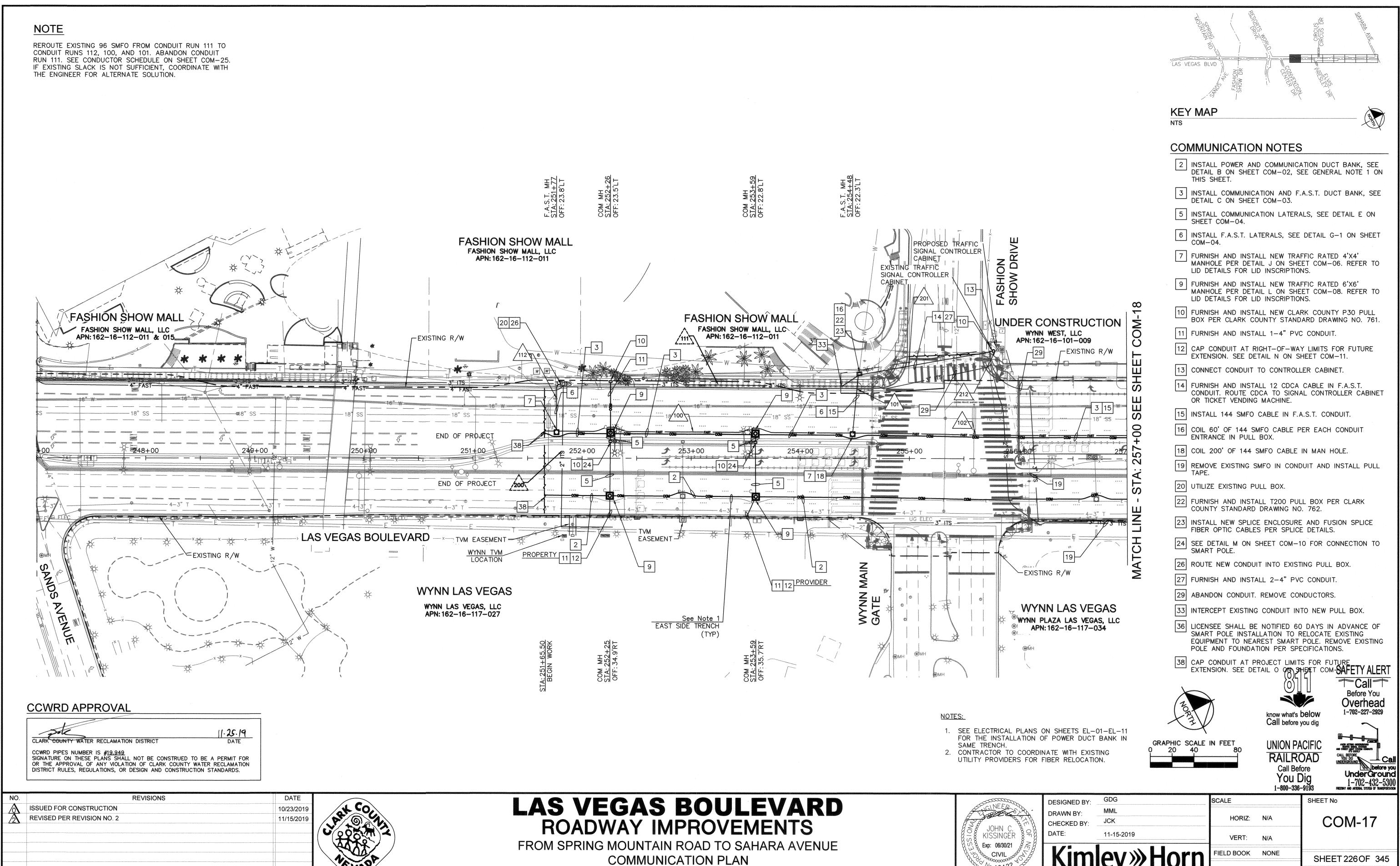
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE F.A.S.T. SPLICE DETAILS (3 OF 3) CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

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Exp: 06/30/21
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No. 10422
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	DATE:	11-15-2019	
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CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

APPROVE

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15 INSTALL 144 SMFO CABLE IN F.A.S.T. CONDUIT. 16 COIL 60' OF 144 SMFO CABLE PER EACH CONDUIT ENTRANCE IN PULL BOX.

14 FURNISH AND INSTALL 12 CDCA CABLE IN F.A.S.T.

12 CAP CONDUIT AT RIGHT-OF-WAY LIMITS FOR FUTURE EXTENSION. SEE DETAIL N ON SHEET COM-11.

CONDUIT. ROUTE CDCA TO SIGNAL CONTROLLER CABINET

17 COIL 100' OF 144 SMFO CABLE IN MAN HOLE.

OR TICKET VENDING MACHINE.

19 REMOVE EXISTING SMFO IN CONDUIT AND INSTALL PULL

20 UTILIZE EXISTING PULL BOX

21 UTILIZE EXISTING CONDUIT.

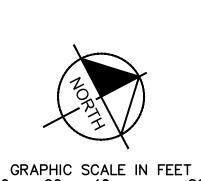
22 FURNISH AND INSTALL T200 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 762.

FIBER OPTIC CABLES PER SPLICE DETAILS.

24 SEE DETAIL M ON SHEET COM-10 FOR CONNECTION TO SMART POLE.

31 REDIRECT EXISTING CONDUIT INTO NEW CONTROLLER CABINET.

36 LICENSEE SHALL BE NOTIFIED 60 DAYS IN ADVANCE OF SMART POLE INSTALLATION TO RELOCATE EXISTING EQUIPMENT TO NEAREST SMART POLE. REMOVE EXISTING POLE AND FOUNDATION PER SPECIFICATIONS.





Overhead 1-702-227-2929

UNION PACIFIC RAILROAD Call Before You Dig

UnderGround SHEET No

Before You

DESIGNED BY: MML DRAWN BY: JCK CHECKED BY: DATE: 02-13-2020 **KISSINGER** Exp: 06/30/21 CIVIL [™].10424 02-13-20

HORIZ: VERT: FIELD BOOK NONE

OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS. ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/201 REVISED PER REVISION NO. 3 02/13/202 APPROVE

-36 EXTENET

- 11 12 PROPERTY

258+00

-EXISTING R/W

-11 12 PROVIDER 19

11 12 PROPERTY

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR

WYNN LAS VEGAS

WYNN PLAZA LAS VEGAS, LLC

APN: 162-16-117-034

PROVIDER 11 12

PROVIDER 11 12

EXISTING TRAFFIC

CABINET

SIGNAL CONTROLLER ~

UNDER CONSTRUCTION

WYNN WEST, LLC

APN: 162-16-101-009

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

FIRST APPROVED DATE

PROJECT NO. 136077

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

UNDER CONSTRUCTION

WYNN WEST, LLC

APN: 162-16-101-011

PROVIDER

~262±00

WYNN LAS VEGAS

WYNN LAS VEGAS, LLC

APN: 162-16-117-027

16 20 23 26 30 T200

PROPOSED TRAFFIC

-SIGNAL CONTROLLER

_EXISTING R/W

LAS VEGAS BOULEVARD

STA:

PROVIDER 11 12

PROVIDER |

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE COMMUNICATION PLAN CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

ISSUED FOR CONSTRUCTION

23 INSTALL NEW SPLICE ENCLOSURE AND FUSION SPLICE 26 ROUTE NEW CONDUIT INTO EXISTING PULL BOX. 30 REMOVE AND SALVAGE EXISTING SPLICE ENCLOSURE. SAFETY ALERT **★Call**

NOTES: 1. SEE ELECTRICAL PLANS ON SHEETS EL-01-EL-11 FOR THE INSTALLATION OF POWER DUCT BANK IN

UNDER CONSTRUCTION

TISHMAR, LLC APN: 162-09-403-004

16 22 FUTURE WYNN WEST TVM LOCATION

EASEMENT

366+00 🥒

11 12 PROVIDER

UNDER CONSTRUCTION

265+00

EXISTING R/W

See Note 1
EAST SIDE TRENCH

(TYP)

10 24

APN: 162-09-403-004 /137

PROVIDER

11 12

SAME TRENCH. 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.

COM-18

SHEET 227 OF 345 L-2210

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

COMMUNICATION PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

RWLV RELATED IMPROVEMENT REV

RWLV RELATED IMPROVEMENT REV

LVB-GENTING INTERSECTION REVISION

09/04/2020

11/18/2020

04/20/202

APPROVE

ISSUED FOR CONSTRUCTION

SHEET 228 OF 345

L-2210

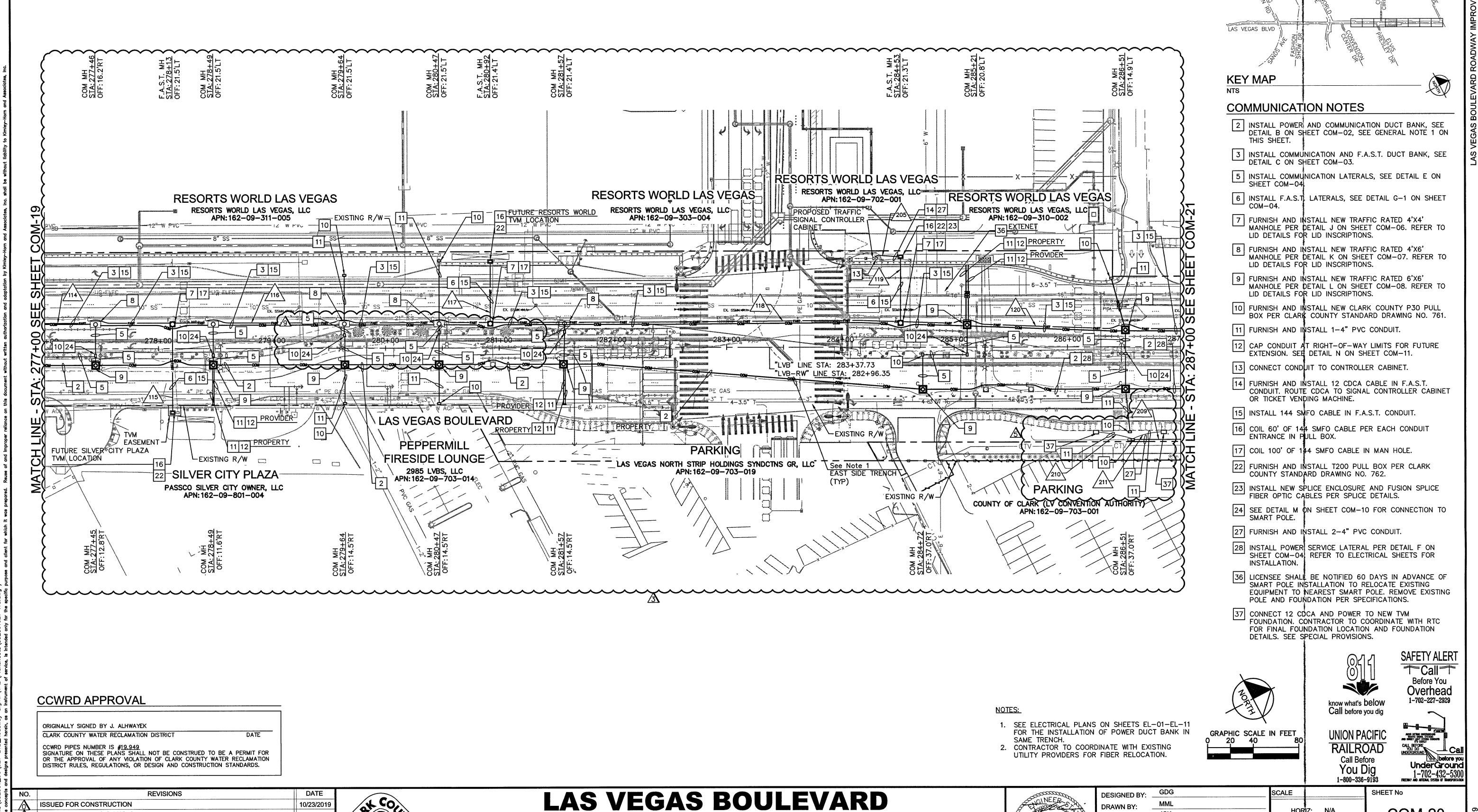
VERT:

IELD BOOK NONE

Exp: 06/30/21

[™].1042

04-20-21



ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

COMMUNICATION PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

ISSUED FOR CONSTRUCTION

REVISED PER REVISION NO. 2

REVISED PER REVISION NO. 3

REVISED PER REVISION NO. 5

RWLV RELATED IMPROVEMENT REV

10/23/2019

11/15/2019

02/13/2020

07/29/2020

12/30/2020

APPROVE

ISSUED FOR CONSTRUCTION

FIELD BOOK NONE

COM-20

SHEET 229 OF 345

DRAWN BY:

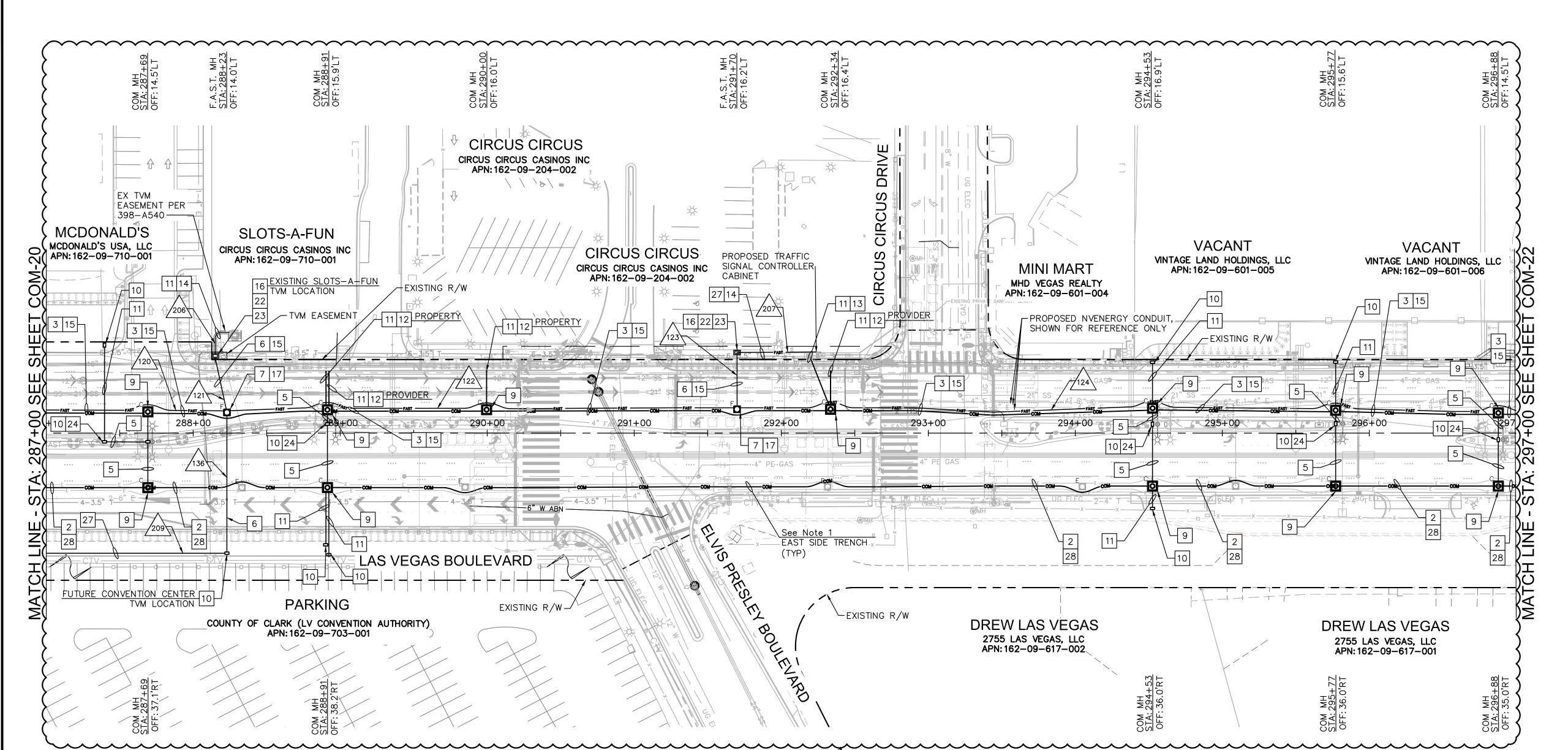
CHECKED BY

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Exp. 06/30/21

JCK

12-30-2020



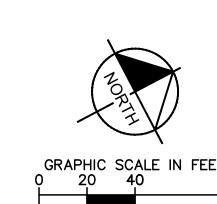
KEY MAP NTS

LAS VEGAS BLVD

COMMUNICATION NOTES

- 2 INSTALL POWER AND COMMUNICATION DUCT BANK, SEE DETAIL B ON SHEET COM-02, SEE GENERAL NOTE 1 ON
- 3 INSTALL COMMUNICATION AND F.A.S.T. DUCT BANK, SEE DETAIL C ON SHEET COM-03.
- 5 INSTALL COMMUNICATION LATERALS, SEE DETAIL E ON SHEET COM-04.
- 6 INSTALL F.A.S.T. LATERALS, SEE DETAIL G-1 ON SHEET COM-04.
- 7 FURNISH AND INSTALL NEW TRAFFIC RATED 4'X4' MANHOLE PER DETAIL J ON SHEET COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- 9 FURNISH AND INSTALL NEW TRAFFIC RATED 6'X6' MANHOLE PER DETAIL L ON SHEET COM-08. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- FURNISH AND INSTALL NEW CLARK COUNTY P30 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 761.
- 11 FURNISH AND INSTALL 1-4" PVC CONDUIT.
- 12 CAP CONDUIT AT RIGHT-OF-WAY LIMITS FOR FUTURE EXTENSION. SEE DETAIL N ON SHEET COM-11.
- 13 CONNECT CONDUIT TO CONTROLLER CABINET.
- 14 FURNISH AND INSTALL 12 CDCA CABLE IN F.A.S.T. CONDUIT. ROUTE CDCA TO SIGNAL CONTROLLER CABINET OR TICKET VENDING MACHINE.
- 15 INSTALL 144 SMFO CABLE IN F.A.S.T. CONDUIT.
- 16 COIL 60' OF 144 SMFO CABLE PER EACH CONDUIT ENTRANCE IN PULL BOX.
- 17 COIL 100' OF 144 SMFO CABLE IN MAN HOLE.
- 22 FURNISH AND INSTALL T200 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 762.
- 23 INSTALL NEW SPLICE ENCLOSURE AND FUSION SPLICE FIBER OPTIC CABLES PER SPLICE DETAILS.
- SEE DETAIL M ON SHEET COM-10 FOR CONNECTION TO SMART POLE.
- 27 FURNISH AND INSTALL 2-4" PVC CONDUIT.
- 28 INSTALL POWER SERVICE LATERAL PER DETAIL F ON SHEET COM-04. REFER TO ELECTRICAL SHEETS FOR INSTALLATION.

- 1. SEE ELECTRICAL PLANS ON SHEETS EL-01-EL-11 FOR THE INSTALLATION OF POWER DUCT BANK IN
- 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.





know what's **below** Call before you dig



SAFETY ALERT

Before You Overhead 1-702-227-2929

UNION PACIFIC RAILROAD Call Before You Dig



ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/201 REVISED PER REVISION NO. 3 02/13/202 APPROVE

CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR

OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION

DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

CLARK COUNTY WATER RECLAMATION DISTRIC



PROJECT NO. 136077

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

FIRST APPROVED DATE

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE COMMUNICATION PLAN CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

MINEER	_
The state of the s	\$
JOHN C. 8	38
Exp: 06/30/21	
CIVIL	7
Vo. 10422	

DESIGNED BY:	GDG	SCA
DRAWN BY:	MML	
CHECKED BY:	JCK	
DATE:	02-13-2020	_
Kim	lev»Horn	FIE
6671 Las Vegas Boulevo Las Vegas, Nevada 89	ard South, Suite 320 119 Tel. No.(702) 862–3600	0

		1-800-336-	9193 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION
	SCALE		SHEET No
_	HORIZ: N	/A	COM-21
-	VERT: N	/A	
	FIELD BOOK N	ONE	SHEET 230 OF 345
0			L-2210

DETAIL B ON SHEET COM-02, SEE GENERAL NOTE 1 ON

MANHOLE PER DETAIL J ON SHEET COM-06. REFER TO

MANHOLE PER DETAIL L ON SHEET COM-08. REFER TO

DETAIL C ON SHEET COM-03.

LID DETAILS FOR LID INSCRIPTIONS.

LID DETAILS FOR LID INSCRIPTIONS.

9 | FURNISH AND INSTALL NEW TRAFFIC RATED 6'X6'

EXTENSION. SEE DETAIL N ON SHEET COM-11.

SHEET COM-04. REFER TO ELECTRICAL SHEETS FOR

15 INSTALL 144 SMFO CABLE IN F.A.S.T. CONDUIT.

ENTRANCE IN PULL BOX.

SMART POLE.

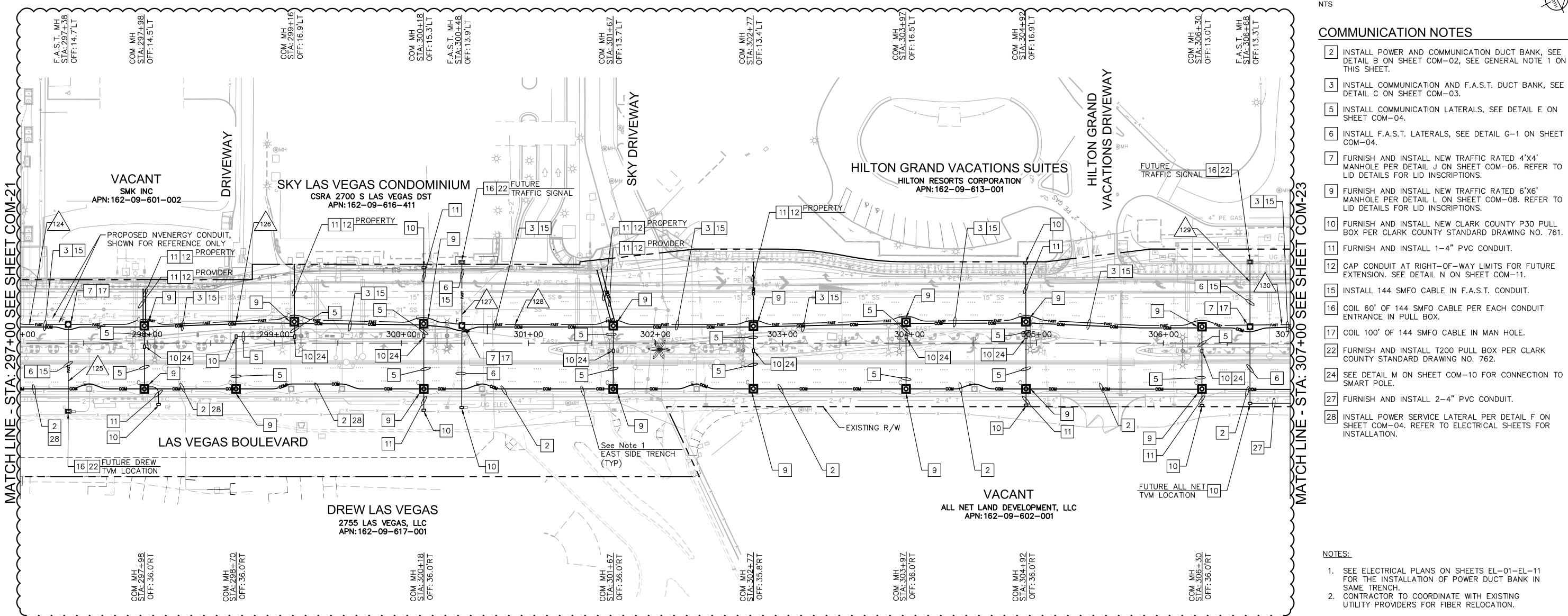
INSTALLATION.

SHEET COM-04.

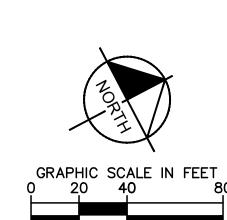
COM-04.

LAS VEGAS BLVD

KEY MAP



- 1. SEE ELECTRICAL PLANS ON SHEETS EL-01-EL-11 FOR THE INSTALLATION OF POWER DUCT BANK IN
- 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.



Tel. No.(702) 862-3600

know what's **below** Call before you dig

UNION PACIFIC RAILROAD Call Before You Dig

SAFETY ALERT

**Call Before You Overhead

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

FIRST APPROVED DATE

PROJECT NO. 136077

10/23/2019

11/15/201

02/13/202

APPROVE

CLARK COUNTY WATER RECLAMATION DISTRIC

ISSUED FOR CONSTRUCTION

REVISED PER REVISION NO. 2

REVISED PER REVISION NO. 3

CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION

DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE COMMUNICATION PLAN CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

GINEER
JOHN C.
KISSINGER & T
Exp: 06/30/21 8 R
%. 10422

02-13-20

Kim	ley»Horn	F
DATE:	02-13-2020	
CHECKED BY:	JCK	_
DRAWN BY:	MML	
DESIGNED BY:	GDG	S

'im	ev»Horn	FIELD
		\
<u>:</u>	02-13-2020	,
CKED BY:	JCK	
NN BY:	MML	
GNED BY:	GDG	SCALE
	0.7.0	

		1-000-000-	-3130 LIKERINI WAD WEISMAY 2121EM OF IKWAS-OKIVIION
-	SCALE		SHEET No
-	HORIZ:	N/A	COM-22
-	VERT:	N/A	
	FIELD BOOK	NONE	SHEET 231 OF 345
0			L-2210

APPROVED FOR CONSTRUCTION

6 15

PROPOSED TRAFFIC

CABINET

(TYP)

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES PROJECT NO. 136077 FIRST APPROVED DATE

-EXISTING R/W

EXISTING R/W

VACANT

ALL NET LAND DEVELOPMENT, LLC

APN: 162-09-602-001

LAS VEGAS BOULEVARD

APPROVE

-11 12 PROPERTY

You Dig 1-800-336-9193

UnderGround

L-2210

ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/201 REVISED PER REVISION NO. 3 02/13/202

CCWRD PIPES NUMBER IS #19.949
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DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

CLARK COUNTY WATER RECLAMATION DISTRIC

NORTH FESTIVAL LOT

10 24

VINTAGE LAND HOLDINGS II, LLC

APN: 162-09-510-002

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

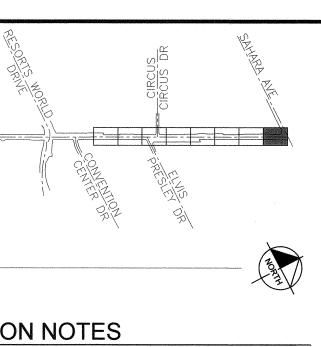
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE COMMUNICATION PLAN CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



	Kim 6671 Las Vegas Boulevo Las Vegas, Nevada 89	ley Horn ard South, Suite 320 Tel. No.(702) 862–3600			
	DATE:	02-13-2020			
) }	DRAWN BY: CHECKED BY:	JCK			
		MML	ľ		
	DESIGNED BY:	GDG	S		

	SCALE	
	HORIZ:	N/A
	VERT:	N/A
orn	FIELD BOOK	NC
orn		
No. (702) 862-3600		

SHEET No **COM-23** SHEET 232 OF 345



COMMUNICATION NOTES

LAS VEGAS BLVD

KEY MAP

- 1 INSTALL COMMUNICATION DUCT BANK, SEE DETAIL A ON SHEET COM-02.
- 2 INSTALL POWER AND COMMUNICATION DUCT BANK, SEE DETAIL B ON SHEET COM-02, SEE GENERAL NOTE 1 ON THIS SHEET.
- 3 INSTALL COMMUNICATION AND F.A.S.T. DUCT BANK, SEE DETAIL C ON SHEET COM-03.
- 5 INSTALL COMMUNICATION LATERALS, SEE DETAIL E ON SHEET COM-04.
- 6 INSTALL F.A.S.T. LATERALS, SEE DETAIL G-1 ON SHEET COM-04.
- 7 FURNISH AND INSTALL NEW TRAFFIC RATED 4'X4' MANHOLE PER DETAIL J ON SHEET COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS. 9 FURNISH AND INSTALL NEW TRAFFIC RATED 6'X6' MANHOLE PER DETAIL L ON SHEET COM-08. REFER TO
- LID DETAILS FOR LID INSCRIPTIONS.
- 10 FURNISH AND INSTALL NEW CLARK COUNTY P30 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 761.
- 11 FURNISH AND INSTALL 1-4" PVC CONDUIT.
- 12 CAP CONDUIT AT RIGHT-OF-WAY LIMITS FOR FUTURE EXTENSION. SEE DETAIL N ON SHEET COM-11.
- 15 INSTALL 144 SMFO CABLE IN F.A.S.T. CONDUIT.
- 16 COIL 60' OF 144 SMFO CABLE PER EACH CONDUIT ENTRANCE IN PULL BOX.
- 17 COIL 100' OF 144 SMFO CABLE IN MAN HOLE.
- 20 UTILIZE EXISTING PULL BOX.
- 22 FURNISH AND INSTALL T200 PULL BOX PER CLARK COUNTY STANDARD DRAWING NO. 762.
- 23 INSTALL NEW SPLICE ENCLOSURE AND FUSION SPLICE FIBER OPTIC CABLES PER SPLICE DETAILS.
- SEE DETAIL M ON SHEET COM-10 FOR CONNECTION TO SMART POLE.
- 25 REMOVE EXISTING SMFO IN CONDUIT.
- 26 ROUTE NEW CONDUIT INTO EXISTING PULL BOX.
- 30 REMOVE AND SALVAGE EXISTING SPLICE ENCLOSURE.
- 38 CAP CONDUIT AT PROJECT LIMITS FOR FUTURE EXTENSION. SEE DETAIL O ON SHEET COM-11.

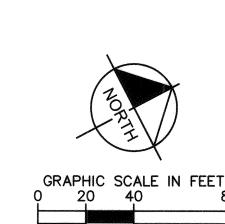
NOTES:

- 1. SEE ELECTRICAL PLANS ON SHEETS 235-245 FOR THE INSTALLATION OF POWER DUCT BANK IN SAME TRENCH.
- 2. CONTRACTOR TO COORDINATE WITH EXISTING UTILITY PROVIDERS FOR FIBER RELOCATION.

HORIZ: N/A

FIELD BOOK NONE

VERT:





SAFETY ALERT **Call Before You Overhead 1-702-227-2929

UNION PACIFIC RAILROAD Call Before You Dig



AVOID HITTING UNDERGROUND
TRAFFIC SIGNAL SYSTEMS
AND STREET UGHT SYSTEM CONDUITS
IT'S COSTLY **UnderGround**

SHEET No COM-24 SHEET 233 OF 345

EXISTING R/W-/ LAS VEGAS BOULEVARD WALGREENS SLS HOTEL AND CASINO LAS VEGAS SAHARA DEVELOPMENT, LLC APN: 162-03-422-001 (TYP) LAS VEGAS RESORT HOLDINGS, LLC APN: 162-09-502-001 11.25.19 CLARK COUNTY WATER RECLAMATION DISTRIC CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS. **REVISIONS** LAS VEGAS BOULEVARD ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/2019 ROADWAY IMPROVEMENTS

APPROVED

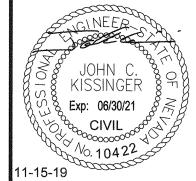
E------CAUTION: HIGH PRESSURE GAS

NORTH FESTIVAL LOT

VINTAGE LAND HOLDINGS II, LLC APN: 162-09-510-002

LAS VEGAS BOULEVARD

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE COMMUNICATION PLAN CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



CAUTION: HIGH PRESSURE GAS!!

CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN

EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS

PRIOR TO CONSTRUCTION

10 31/1 X	DESIGNED BY: DRAWN BY: CHECKED BY: DATE:	MML JCK 11-15-2019
ONE IN THE	Kim 6671 Las Vegas Bouleva Las Vegas, Nevada 891	ley»Horn

BÔNANZA GIFT AND SOUVENIR SHÓPS

L'CHAIM 24 FREMONT PROPERTY, LLC APN: 162-04-812-003

		I	1		1			
CONDUIT NO.	FROM	то	NO.	SIZE (IN)	LENGTH (FT)	FIBER OPTIC CABLE (NO. OF STRANDS)	CONDUCTORS	REMARKS
100	FO MANHOLE	FO MANHOLE	1 1	4 4M		96 -	#8	REROUTE EX. 96 SMFO FIBER TRUNKLINE FOR FUTURE PHASE OF PROJECT
101	FO MANHOLE	TYPE 200 S.V.(EX)	1 1	4 4		144, 96 -	#8	REROUTE EX. 96 SMFO BUTT SPLICE NEW 144 SMFO TO EXISTING 96 SMFO IN T200 S.V. SEE SPLICE DETAIL A
102	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
103	FO MANHOLE	TYPE 200 S.V.(EX)	1 1	4 4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO WYNN DRIVEWAY TRAFFIC SIGNAL SEE SPLICE DETAIL B
104	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
105	P30	P30 (EX)	1 1	4 4		144	#8	
106	P30(EX)	TYPE 200 S.V.(EX)	1(EX)	2(EX)		144	#8	INSTALL 1 INCH INNERDUCT WITH 144 SMFO CABLE (EMPTY)
107	TYPE 200 S.V.(EX)	P30	1 1	4 4		144	#8	
108	P30	P30	1 1	4 4		144	#8	
109	P30	FO MANHOLE	1 1	4 4		144	#8	
110	FO MANHOLE	FO MANHOLE	1 1	4 4M		144 -	#8	
111	TYPE 200 S.V.(EX)	TYPE 200 S.V.	1	3 (EX)		-	#8	REMOVE AND REROUTE EX. 96 SMFO ABANDON CONDUIT RUN IN PLACE
112	FO MANHOLE	TYPE 200 S.V.(EX)	1 1	4 4		96 -	#8	REROUTE EX. 96 SMFO FIBER TRUNKLINE FOR FUTURE PHASE OF PROJECT
113	FO MANHOLE	TYPE 200 S.V.	1 1	4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO CONVENTION CENTER DRIVE TRAFFIC SIGNAL SEE SPLICE DETAIL B
114	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
115	FO MANHOLE	TYPE 200 S.V.	1 1	4 4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO FUTURE TVM
116	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
117	FO MANHOLE	TYPE 200 S.V.	1 1	4 4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO FUTURE TVM
118	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
119	FO MANHOLE	TYPE 200 S.V.	1 1	4 4		(2) - 144 *	#8	SEE SPLICE DETAIL B
120	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
121	FO MANHOLE	TYPE 200 S.V.	1 1	4 4		(2) - 144 *, 12 CDCA -	#8	TYPE 200 S.V. FOR CONNECTION TO SLOTS-A-FUN AND CONVENTION CENTER TVMS SEE SPLICE DETAIL C
122	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
123	FO MANHOLE	TYPE 200 S.V.	1 1	4 4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO CIRCUS CIRCUS TRAFFIC SIGNAL SEE SPLICE DETAIL B
124	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
125	FO MANHOLE	TYPE 200 S.V.	1 1	4 4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO FUTURE TVM
126	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
127	FO MANHOLE	TYPE 200 S.V.	1 1	4 4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO FUTURE DREW/SKY TRAFFIC SIGNAL
128	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
129	FO MANHOLE	TYPE 200 S.V.	1 1	4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO FUTURE HILTON TRAFFIC SIGNAL & ALLNET TVM
130	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
131	FO MANHOLE	TYPE 200 S.V.	1 1	4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO SLS WAY TRAFFIC SIGNAL SEE SPLICE DETAIL B
132	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
133	FO MANHOLE	TYPE 200 S.V.	1 1	4 4		(2) - 144 *	#8	TYPE 200 S.V. FOR CONNECTION TO FUTURE TVM
134	FO MANHOLE	FO MANHOLE	1 1	4 4M		144	#8	
135	FO MANHOLE	TYPE 200 S.V.(EX)	1 1	4 4		144	#8	BUTT SPLICE NEW 144 SMFO TO EXISTING 96 SMFO IN T200 S.V. SEE SPLICE DETAIL D
136	FO MANHOLE	P30	1 1	4 4		(2) - 12 CDCA	#8	CONNECTION TO CONVENTION CENTER TVM FOUNDATIONS
				4		/5\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	I	

CONDUIT NO.	FROM	ТО	NO.	SIZE (IN)	LENGTH (FT)	FIBER OPTIC CABLE (NO. OF STRANDS)	CONDUCTORS	REMARKS
138	FO MANHOLE	P30	1 1	4 4M		144 -	#8	
200	TYPE 200 S.V.(EX)	TVM(EX)	1(EX)	2(EX)		12 CDCA(EX)	#8	MAINTAIN EXISTING TVM CONNECTION
201	TYPE 200 S.V.	P30	1 1	4 4		12 CDCA	#8	SPLICE NEW 144 SMFO TO NEW 12 CDCA SEE SPLICE DETAIL A
202	TYPE 200 S.V.(EX)	TS CONTROL CABINET	1(EX)	4(EX)		12 CDCA	#8	
203	TYPE 200 S.V.(EX)	TS CONTROL CABINET	1 1	4 4		12 CDCA	#8	SEE SPLICE DETAIL B
204	TYPE 200 S.V.	TS CONTROL CABINET	1 1	4 4		12 CDCA	#8	
205	TYPE 200 S.V.	TS CONTROL CABINET	1 1	4 4		12 CDCA	#8	
206	TYPE 200 S.V.	TVM(EX)	1	4		12 CDCA	#8	TYPE 200 S.V. FOR EXISTING CONNECTION TO SLOTS-A-FUN TVM
207	TYPE 200 S.V.	TS CONTROL CABINET	1 1	4 4		12 CDCA	#8	
208	TYPE 200 S.V.	TS CONTROL CABINET	1 1	4 4		12 CDCA	#8	
209	P30	P30	1 1	4 4		(2) - 12 CDCA	#8	
210	P30	TVM FOUND.	1	4		12 CDCA	#8	CONNECTION TO CONVENTION CENTER TVM FOUNDATIONS. RTC STAFF TO PROVIDE TVMS AN PERFORM CONNECTION.
211	P30	TVM FOUND.	1	4		12 CDCA	#8	CONNECTION TO CONVENTION CENTER TVM FOUNDATIONS. RTC STAFF TO PROVIDE TVMS AN PERFORM CONNECTION.
212	P30	TS CONTROL CABINET	1 1	4 4		12 CDCA	#8	

*144 FIBER SHALL ENTER AND EXIT THE SAME CONDUIT

NO.	REVISIONS	DATE	
\wedge	ISSUED FOR CONSTRUCTION	10/23/2019	
/ 5	REVISED PER REVISION NO. 5	07/29/2020	/
			/3
			(
		APPROVED	



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE F.A.S.T. FIBER OPTIC CONDUCTOR SCHEDULE CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

JOHN C.
KISSINGER 87
07-29-20

DESIGNED BY: ORAWN BY: CHECKED BY: DATE: O7-29-2020	}	Kim 6671 Las Vegas Bouleve Las Vegas. Nevada 89		FIEI
DRAWN BY: GDG		DATE:	07-29-2020	
DESIGNED BY:			JCK	
DESIGNED BY: GDG SCA		DRAWN BY:	GDG	
		DESIGNED BY:	GDG	SCA

SCALE		SHEET No
HORIZ:	N/A	COM-25
VERT:	N/A	0 0 111 20
FIELD BOOK	NONE	SHEET 234 OF 345

CONDUCTORS AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW STREET LIGHTING SWITCHGEAR MAIN CIRCUIT PROVIDE (2) SETS OF (4) 350 KCMIL XHHW-2 CONDUCTOR'S AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW LANDSCAPE LIGHTING SWITCHGEAR MAIN

16 REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION, SALVAGE LUMINARE AND POLE TO THE COUNTY BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.

17 COORDINATE WITH PROVIDER OF EXISTING WIRELESS EQUIPMENT ON EXISTING POLE TO HAVE THE EQUIPMENT RELOCATED TO NEW SMART POLE.

18 CONNECT EXISTING STREET LIGHT CONDUIT HEADING SOUTH INTO PULLBOX. DISCONNECT STREET LIGHT (SG#3. CKT 5) FED FROM EXISTING LIGHT POLE TO THE NORTH AND PULL CABLE SLACK BACK TO PULL BOX. SPLICE NEW CONDUCTORS (SG# 3, CKT 2) TO EXISTING CIRCUIT

19 STUB, CAP, AND SURVEY CONDUITS AT LIMITS OF

20 REMOVE EXISTING SWITCHGEAR AND FOUNDATION. BACK FILL EXCAVATION IN ACCORDANCE WITH CIVIL SECTIONS. NEW SWITCHGEAR MUST BE FUNCTIONAL PRIOR TO REMOVAL OF EXISTING SWITCHGEAR.

21 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.

22 PROVIDE POWER DUCT BANK, SEE DETAIL I ON COM-05.

24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.

23 PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENTION, STANDARD DRAWING 707.

GENERAL NOTES

CONTRACTOR SHALL VERIFY ALL FIELD MEASUREMENTS AND DIMENSIONS OF BOLLARD LOCATIONS THAT REQUIRE SPECIAL MANUFACTURING, INCLUDING ALL BOLLARD LOCATIONS TO BE INSTALLED ALONG RADII.

2. CONTRACTOR TO SAWCUT TO THE LIMITS OF REMOVAL AS INDICATED ON PLANS OR REMOVE FULL PANEL OF CONCRETE TO THE NEAREST JOINT AS DETERMINED BY THE ENGINEER.

3. ALL UNDERGROUND CONDUIT INSTALL SHALL HAVE RED, CONTINUOUS MARKING TAPE INSTALLED IN THE TRENCH AT 12" BELOW FINISHED GRADE.

4. ALL PULL BOXES SHALL BE BONDED PER CCAUSD NO. 323.

CONTRACTOR SHALL INSTALL ALL PROPOSED CONDUITS (TRAFFIC SIGNAL, STREET LIGHTING, INTERCONNECT, ETC.) IN THE SAME TRENCH WHENEVER POSSIBLE. REFER TO OTHER SHEETS THIS SET FOR OTHER PROPOSED CONDUITS.

6. CONDUIT ROUTING AND PULL BOX PLACEMENT LOCATIONS ARE SHOWN SCHEMATICALLY ON THE PLANS AND MAY VARY IN THE

7. CONTRACTOR SHALL COVER AND/OR CAP ALL CONDUIT ENDS IN THE PULL BOXES.

CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES
NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE.
ALL IMPROVEMENTS/STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.

9. ALL SPOIL MATERIALS SHALL BE REMOVED OFFSITE EACH DAY.

10. CONDUITS SHALL BE POSITIONED USING 2" DUCT SPACERS. SEE SPECIAL PROVISIONS FOR DUCT SPACER SPECIFICATIONS.

11. CONTROLLED LOW STRENGTH MATERIAL (CLSM) SHALL BE INSTALLED TO FINAL GRADE. THE CONTRACTOR SHALL USE RED DYE FOR CLSM BACKFILL AROUND POWER DUCT BANK AND ORANGE DYE FOR CLSM BACKFILL AROUND COMMUNICATION DUCT BANK UNLESS OTHERWISE NOTED ON THE PLANS.

12. CONTRACTOR SHALL SUBMIT A STREET LIGHT REPLACEMENT PHASING PLAN TO THE ENGINEER FOR APPROVAL. ALL EXISTING STREET LIGHTS SHALL REMAIN OPERATIONAL WHILE THE NEW SMART POLES, STREET LIGHT ASSEMBLIES, AND ASSOCIATED POWER CONDUITS AND STREET LIGHT CIRCUITS ARE INSTALLED AND SUCCESSFULLY TESTED FOR PROPER INSTALLATION AND OPERATION. EACH EXISTING STREET LIGHT SHALL REMAIN OPERATIONAL UNTIL ITS REPLACEMENT IS OPERATIONAL AND READY TO TAKE OVER LIGHTING THE ASSOCIATED AREA OF THE EXISTING LIGHT BEING REPLACED.

13. REPAIR ANY IRRIGATION, CONDUIT, CABLE, LIGHTING OR OTHER EQUIPMENT DAMAGED DURING REMOVAL OR INSTALLATION OF POLES, PULL BOXES, CONDUITS, FOUNDATIONS OR OTHER

14. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE EXISTING TRANSPORT TO CLARK COUNTY STORAGE YARD. CONTRACTOR SHALL PHOTOGRAPH ALL EXISTING POLES PRIOR TO REMOVAL **LEGEND**

#5 PULL BOX WITH EXTENSION

ELECTRICAL VAULT

FAST CONDUIT

ELECTRICAL CONDUIT

COMMUNICATION CONDUIT

EXISTING POLE - DOUBLE HEAD

SINGLE PHASE

TWO POLE

THREE POLE

THREE WIRE

FOUR WIRE

ADJACENT

ALUMINUM

ALTERNATE

ANALOG OUTPUT

AS REQUIRED

BUCK BOOST

BATTERY PACK

CIRCUIT BREAKER

BUILDING

BREAKER

ARCHITECT

INSTALLED

CENTERLINE

DEMOLITION

DIAMETER

DIMENSION

DRAWINGS

ELECTRICAL

ELEVATOR

DISCONNECT

DEPARTMENT

DAMPER ACTUATOR

DRINKING FOUNTAIN

EXPANSION JOINT

CIRCUIT

APPROX. APPROXIMATE/APPROXIMATELY

ARCHITECTURAL/ARCHITECT

AMERICAN WIRE GAUGE

BLOWER CONTROL PANEL

BACK FEED BREAKER

BRITISH THERMAL UNIT

AUTOMATIC TRANSFER SWITCH

COMMUNITY ANTENNA TELEVISION

CUSTOM COLOR/FINISH SELECTED BY

CONTRACTOR FURNISHED CONTRACTOR

CONVENIENCE OUTLET, RECEPTACLE

DECIBLE, UNIT OF SOUND LEVEL

DOUBLE POLE DOUBLE THROW

EMPTY CONDUIT WITH PULL WIRE

ELECTRICAL DRINKING FOUNTAIN

CONTRACTOR FURNISHED OWNER INSTALLED

AIR CONDITIONING

ALTERNATING CURRENT

AVAILABLE FAULT CURRENT

ACOUSTICAL CEILING PANEL

ABOVE FINISHED FLOOR/GRADE

AREA LIGHT CONTACTOR PANEL

AMPERE INTERRUPTING CAPACITY

AMERICANS WITH DISABILITIES ACT

ANCHOR BOLT

THREE PHASE

TWO-CONDUCTOR

THREE-CONDUCTOR

FOUR POLE DOUBLE THROW

FOUR POLE SINGLE THROW

SMART POLE - SINGLE HEAD

SMART POLE - DOUBLE HEAD

CONSTRUCTION NOTES

CARRIER CONDUIT CONFIGURATION REFER TO EL-10 AND COM-02

ABBREVIATIONS

ELECTRICAL METALLIC CONDUIT ELECTRICAL NONMETALLIC CONDUIT EQUIPMENT **EXIST** EXISTING FIRE ALARM ANNUCIATOR FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS FULL LOAD AMPERES FLEXIBLE METAL CONDUIT FUSE PER EQUIPMENT NAMEPLATE FIRE SMOKE DAMPER FIELD VERIFY MOUNTING FIELD VERIFY MOUNTING HEIGHT FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING GROUND GALVANIZED GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION GND GROUND HEAVY DUTY HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC HORSEPOWER HIGH-PRESSURE SODIUM HIGH VOLTAGE HEATING, VENTILATION & AIR CONDITIONING HERTZ, UNIT OF FREQUENCY INPUT/OUTPUT ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSULATED/ISOLATED INFRARED KILOVOLT AMPERE KILOVOLT AMPERE REACTIVE KILOWATT KILOWATT HOUR LIGHT EMITTING DIODE LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT LOW-PRESSURE SODIUM LOCKED ROTOR CURRENT LIGHTING LOW VOLTAGE MAXIMUM METAL CLAD MINIMUM CIRCUIT AMPERES MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTOR CIRCUIT PROTECTION MECHANICAL MANUFACTURER MAN HOLE MINIMUM MISCELLANEOUS MAIN LUGS ONLY MAXIMUM OVER-CURRENT PROTECTION NOT APPLICABLE

NORMALLY CLOSED

ASSOCIATION

NATIONAL ELECTRIC CODE

NATIONAL ELECTRIC MANUFACTURERS

NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVER-CURRENT PROTECTION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLE
OFOI	OWNER FURNISHED OWNER INSTALLED
OHD	OVERHEAD DOOR
OL	OVERLOAD
PB	PUSH BUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RELOCATE DEVICE/FIXTURE
RCP	REFLECTED CEILING PLAN
REF	REFRIGERATOR
REV	REVISIONS/REVISED
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RPM	REVOLUTIONS PER MINUTE
S	SOUTH
3 S/N	SWITCH NEUTRAL
5/N	
S/S	START/STOP
SCA	SHORT CIRCUIT AMPERES
SF	SQUARE FOOT/FEET
SFBA	STANDARD FINISH/COLOR BY ARCHITECT
SPD	SURGE PROTECTION DEVICE
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
ST	SINGLE THROW
STRUCT	STRUCTURAL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEMP	TEMPORARY
TL	TWISTLOCK
TP TOD	TWISTED PAIR
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION (CABLE)
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
1 11	
	UNDERFLOOR /UNDERSLAB
UF	UNDERFLOOR/UNDERSLAB
UF UGND	UNDERGROUND
UF UGND UNO	UNDERGROUND UNLESS NOTED OTHERWISE
UF UGND UNO UNSW	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED
UF UGND UNO UNSW UPS	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE
UF UGND UNO UNSW UPS V	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE
UF UGND UNO UNSW UPS V	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE
UF UGND UNO UNSW	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE
UF UGND UNO UNSW UPS V	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE
UF UGND UNO UNSW UPS V VA VFD	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WEST
UF UGND UNO UNSW UPS V VA VFD W	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WEST WALL
UF UGND UNO UNSW UPS V VA VFD W W	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WEST WALL WITH
UF UGND UNO UNSW UPS V VA VFD W W W/O	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WEST WALL WITH
UF UGND UNO UNSW UPS V VA VFD W W W/O WH	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WEST WALL WITH WITHOUT WATER HEATER
UF UGND UNO UNSW UPS V VA VFD W W W/ W/O WH	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WEST WALL WITH WITHOUT WATER HEATER WEATHER PROOF (NEMA 3R)
UF UGND UNO UNSW UPS V VA VFD W W W/O WH	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WEST WALL WITH WITHOUT WATER HEATER
UF UGND UNO UNSW UPS V VA VFD W W W/ W/O WH	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WEST WALL WITH WITHOUT WATER HEATER WEATHER PROOF (NEMA 3R)
UF UGND UNO UNSW UPS V VA VFD W W/ W/O WH	UNDERGROUND UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTIBLE POWER SOURCE VOLTS/VOLTAGE VOLT AMPERE VARIABLE FREQUENCY DRIVE WEST WALL WITH WITHOUT WATER HEATER WEATHER PROOF (NEMA 3R) DEMOLISH

RFI 002

CLARK COUNTY WATER RECLAMATION DISTRICT 11.25.19 CCWRD PIPES NUMBER IS #19.715
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION

DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

know what's **below**Call before you dig

SAFETY ALER ↑ Call ↑ Before You Overhead 1-702-227-2929

UNION PACIFIC RAILROAD Call Before You Dig

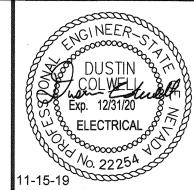


NO.	REVISIONS	DATE
1	ISSUED FOR CONSTRUCTION	10/23/2019
/2	REVISED PER REVISION NO. 2	11/15/2019
		APPROVED



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE ELECTRICAL PLAN CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



Kim	ley»Horn	FI
	11-15-2019	FI
DESIGNED BY: DRAWN BY: CHECKED BY:	DJC MT DH	SC

1-800-336-9193 SHEET No HORIZ: N/A EL-01 VERT: TELD BOOK NONE SHEET 235 OF 345 L-2210

(9) - 2": A1 - A9

CKT: 5 9

250+00

-SG #3 CKT:2-

(10) - 2": A1 - A10 (5) - 2": A1 - A5

249+00

(6) - 2": A1 - A6

FASHION SHOW MALL

FASHION SHOW MALL, LLC

APN: 162-16-112-011 & 015_

248+00

-SG #3 CKT: 2

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT

(2) - 2": A1 - A2

(4) - 2": A1 - A4

- REFER TO COM-02 FOR DUCT BANK DETAILS

POLE #42

SG#3

CKT: 5

251+00

POLE #43

LAS VEGAS BOULEVARD

SG #3 CKT: 2-

WYNN LAS VEGAS

WYNN LAS VEGAS, LLC APN:162-16-117-027

'SG #3"CKT:2

252+00

FASHION SHOW MALL FASHION SHOW MALL, LLC APN: 162-16-112-011

254+00

POLE #41

SG #3 CKT: 2

APN: 162-16-101-009 -EXISTING SES

EXISTING R/W

FASHION SHOW DRIVE

METER #AA016927698 SERVING STREET LIGHTS

VACANT

WYNN WEST, LLC

EXISTING

6 9 5 5 21

-EXISTING R/W

WYNN LAS VEGAS

WYNN PLAZA LAS VEGAS, LLC APN: 162-16-117-034

= 277/480V =

INSCRIPTIONS.

LAS VEGAS BLVD

KEY MAP

CONSTRUCTION NOTES

ON EL-10 FOR CABLE SIZES.

ON EL-10 FOR CABLE SIZES.

DETAIL D-2 ON COM-03.

PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 706.

12 PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION

DESIGN. 16 REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION, SALVAGE LUMINARE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.

2 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.

|3| PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.

5 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN 'II'

6 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW—2 ÒŔ THW—2 GROUND IN 'LI1' OR 'LI' LATERAL` CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL

7 PROVIDE ONE ADDITIONAL 2" PVC POWER LATERAL FOR

8 PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID

FUTURE TICKET VENDING MACHINE AT BUS STOP. SEE

CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL

17 COORDINATE WITH PROVIDER OF EXISTING WIRELESS EQUIPMENT ON EXISTING POLE TO HAVE THE EQUIPMENT RELOCATED TO NEW SMART POLE.

CONNECT EXISTING STREET LIGHT CONDUIT HEADING SOUTH INTO PULLBOX. DISCONNECT STREET LIGHT (SG#3, CKT 5) FED FROM EXISTING LIGHT POLE TO THE NORTH AND PULL CABLE SLACK BACK TO PULL BOX. SPLICE NEW CONDUCTORS (SG# 3, CKT 2) TO EXISTING CIRCUIT CABLES HEADING SOUTH.

19 STUB, CAP, AND SURVEY CONDUITS AT LIMITS OF CONSTRUCTION.

21 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02. PROVIDE ELECTRICAL CONDUITS ONLY.

PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENTION, STANDARD DRAWING 707.

24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.

GENERAL SHEET NOTES

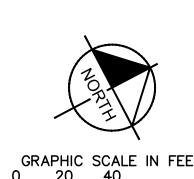
1. COORDINATE WITH LANDSCAPING ELECTRICAL FOR NEW FOUNDATION LOCATIONS.

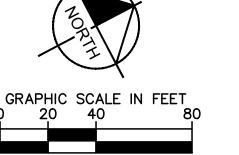
INSTALL (2) #6 AND (1) #8 GND FOR

EXISTING TICKET VENDING MACHINE AT

WYNN FROM SG #3. INSTALL IN SPARE CONDUIT THROUGH NEW POWER DUCT.

- 2. CONTRACTOR TO PROPOSE PHASING PLAN FOR STREET LIGHT CUTOVER. OPEN PORTIONS OF LAS VEGAS BOULEVARD MUST REMAIN ILLUMINATED EVERYNIGHT. TEMPORARY POLES OR LIGHTS ARE ACCEPTABLE WITH THE PRIOR APPROVAL OF THE COUNTY AND ENGINEER.
- 3. ALL NEW POLES MUST BE FUNCTIONAL AND EXISTING EQUIPMENT REMOVED, INCLUDING 3RD PARTY EQUIPMENT, PRIOR TO REMOVAL OF EXISTING POLE.
- 4. REPAIR ANY IRRIGATION, CONDUIT, CABLE, LIGHTING OR OTHER EQUIPMENT DAMAGED DURING REMOVAL OR INSTALLATION OF POLES, PULL BOXES, CONDUITS, FOUNDATIONS OR OTHER ELEMENTS.
- 5. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE EXISTING CONCRETE POLES ARE NOT DAMAGED DURING REMOVAL AND TRANSPORT TO CLARK COUNTY STORAGE YARD.









SAFETY ALERT

RAILROAD Call Before

1-800-336-9193 SHEET No **EL-02**

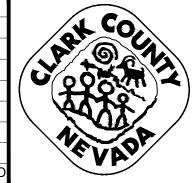
L-2210

ISSUED FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/201 **REVISED PER REVISION NO. 3** 02/13/2020 APPROVI

CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION

DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



PROJECT NO. 136077

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

FIRST APPROVED DATE:

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

-REFER TO CARRIER CONDUIT SCHEDULE

FOR DUCT CONFIGURATION. (TYPICAL)

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

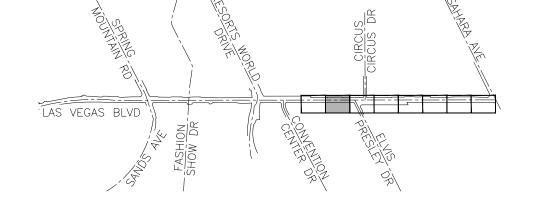
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

ELECTRICAL PLAN

DRAWN BY:

TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
2	(2) - 2": A1 - A2	7	(7) - 2": A1 - A7
3	(3) - 2": A1 - A3	8	(8) - 2": A1 - A8
4	(4) - 2": A1 - A4	9	(9) - 2": A1 - A9
5	(5) - 2": A1 - A5	(10)	(10) - 2": A1 - A10
6	(6) - 2": A1 - A6		

- REFER TO COM-02 FOR DUCT BANK DETAILS VACANT VACANT WYNN WEST, LLC WYNN WEST, LLC **VACANT** APN: 162-16-101-011 APN: 162-16-101-009 TISHMAR, LLC APN: 162-09-403-004 POLE #40 SG #3 CKT: 4 POLE #37 POLE #39 SG #3 CKT: 4 [■] SG #3" CKT: 4 ⇒ POLE #33 -POLE #35 [−] SG #3[°] CKT: 4 − ¯SG #3["]CKT: 4 ¯ 261+00 262+00 259+00 264+00 →POLE #36 SG #3 CKT: 4 -6 24 $\frac{1}{3}$ SG #3 CKT: 4 LAS VEGAS BOULEVARD -EXISTING R/W 2 5 9 WYNN DRIVEW WYNN LAS VEGAS WYNN LAS VEGAS WYNN PLAZA LAS VEGAS, LLC WYNN LAS VEGAS, LLC APN: 162-16-117-034



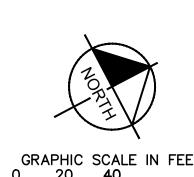
KEY MAP

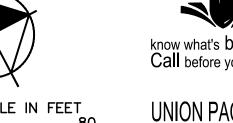
CONSTRUCTION NOTES

- 2 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
- 3 PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.
- 5 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN 'II' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 6 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND IN 'LI1' OR 'LI' LATERAL' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 7 PROVIDE ONE ADDITIONAL 2" PVC POWER LATERAL FOR FUTURE TICKET VENDING MACHINE AT BUS STOP, SEE DETAIL D-2 ON COM-03.
- 8 PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH EXTENSION, STANDARD DRAWING 706.
- 12 PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
- 16 REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION, SALVAGE LUMINARE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
- | 17 | COORDINATE WITH PROVIDER OF EXISTING WIRELESS EQUIPMENT ON EXISTING POLE TO HAVE THE EQUIPMENT RELOCATED TO NEW SMART POLE.
- 22 PROVIDE POWER DUCT BANK, SEE DETAIL I ON COM-05.
- PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENTION, STANDARD DRAWING 707.
- 24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.

GENERAL SHEET NOTES

- 1. COORDINATE WITH LANDSCAPING ELECTRICAL FOR NEW FOUNDATION LOCATIONS.
- 2. CONTRACTOR TO PROPOSE PHASING PLAN FOR STREET LIGHT CUTOVER. OPEN PORTIONS OF LAS VEGAS BOULEVARD MUST REMAIN ILLUMINATED EVERYNIGHT. TEMPORARY POLES OR LIGHTS ARE ACCEPTABLE WITH THE PRIOR APPROVAL OF THE COUNTY AND ENGINEER.
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know what's below Call before you dig Call Before You Dig

Before You Overhead **UnderGround**

SAFETY ALERT

Ο.	REVISIONS	DATE
	ISSUED FOR CONSTRUCTION	10/23/2019
	REVISED PER REVISION NO. 2	11/15/2019
7	REVISED PER REVISION NO. 3	02/13/2020

CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION

DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

CCWRD APPROVAL

CLARK COUNTY WATER RECLAMATION DISTRICT



PROJECT NO. 136077

APPROVI

APPROVED FOR CONSTRUCTION

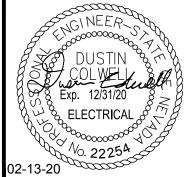
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

FIRST APPROVED DATE:

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE ELECTRICAL PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



	DESIGNED BY:	DJC	
	DRAWN BY:	MT	
	CHECKED BY:	DH	
}	DATE:	02-13-2020	
1	Kimley Horn 6671 Las Vegas Boulevard South, Suite 320 Las Vegas, Nevada 89119 Tel. No.(702) 862-3600		

	1-800-336-	-9193 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATION
CALE		SHEET No
HORIZ:	1"=40'	EL-03
VERT:	N/A	
FIELD BOOK	NONE	SHEET 237 OF 345
		l l-2210

CCWRD APPROVAL

ORIGINALLY SIGNED BY J. ALHWAYEK CLARK COUNTY WATER RECLAMATION DISTRICT CCWRD PIPES NUMBER IS #19.949
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APPROVED FOR CONSTRUCTION

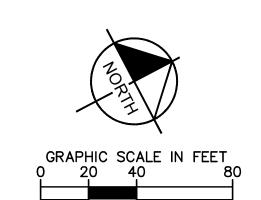
ORIGINALLY SIGNED BY S. KAMOJJALA

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. 136077 FIRST APPROVED DATE:

GENERAL SHEET NOTES

- 1. COORDINATE WITH LANDSCAPING ELECTRICAL FOR NEW FOUNDATION LOCATIONS.
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Call Before You Dig



REVISIONS ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/201 **REVISED PER REVISION NO. 3** 02/13/202 RWLV RELATED IMPROVEMENT REV 09/04/2020 RWLV RELATED IMPROVEMENT REV 12/30/202 LVB-GENTING INTERSECTION REVISION 04/20/202

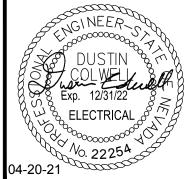


APPROVE

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE ELECTRICAL PLAN

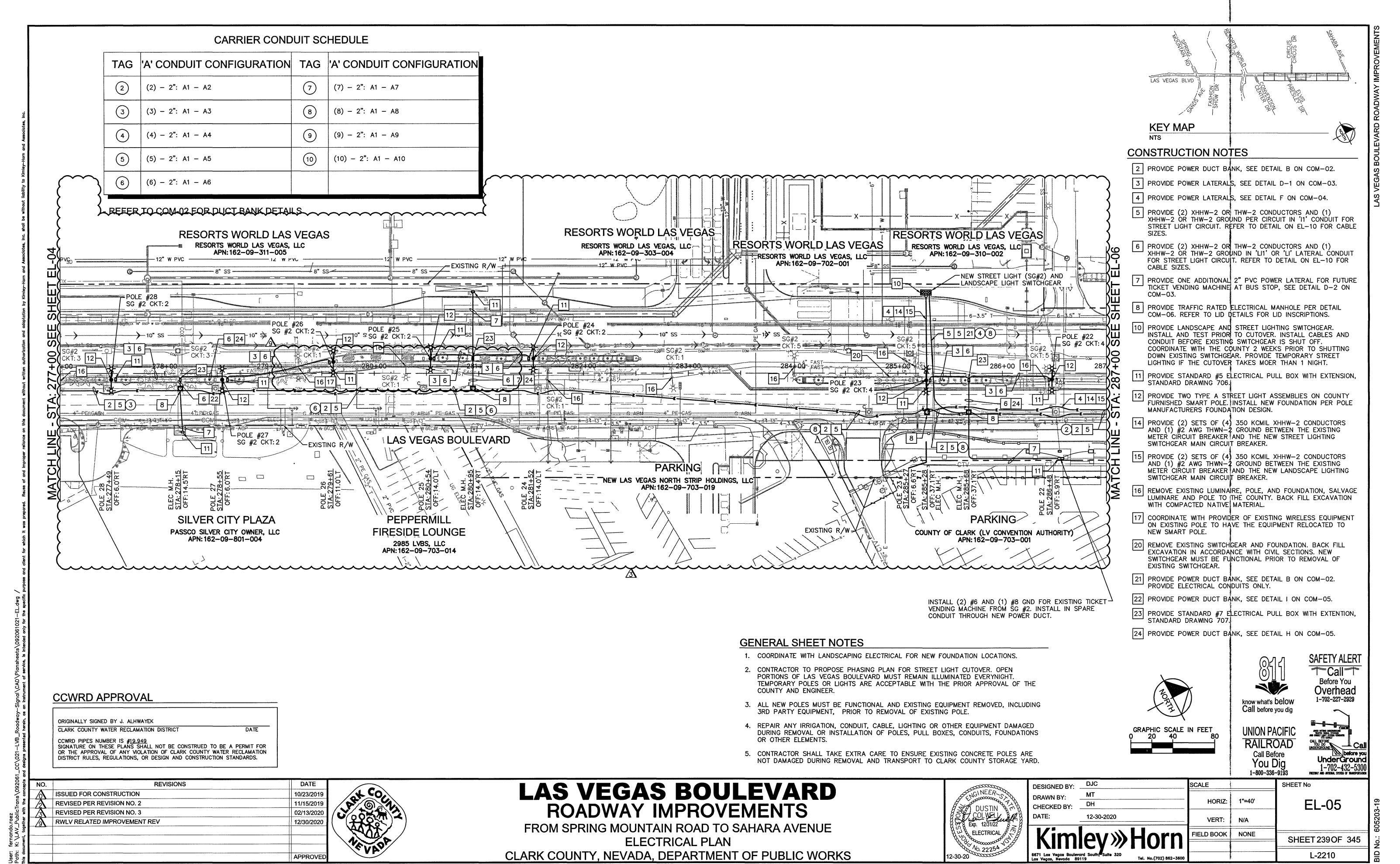
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

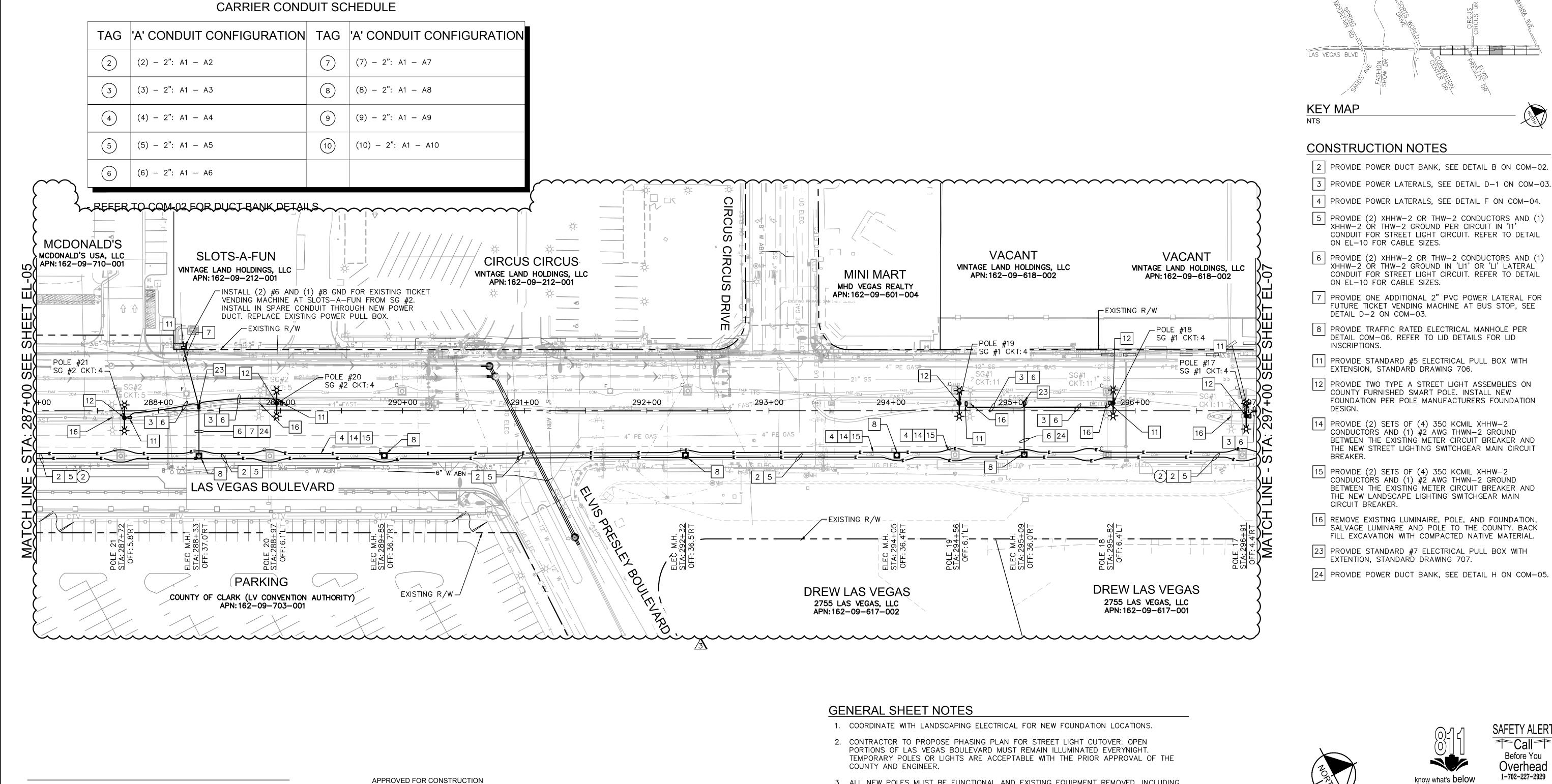


DESIGNED BY: DRAWN BY: CHECKED BY: DATE:	DJC MT DH 04-20-2021
Kim 6671 Las Vegas Boulev Las Vegas, Nevada 89	

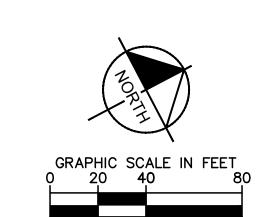
	SCALE	
	HORIZ:	1"=40'
	VERT:	N/A
'n	FIELD BOOK	NONE

SHEET No **EL-04** SHEET 238 OF 345





- 3. ALL NEW POLES MUST BE FUNCTIONAL AND EXISTING EQUIPMENT REMOVED, INCLUDING 3RD PARTY EQUIPMENT, PRIOR TO REMOVAL OF EXISTING POLE.
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SAFETY ALERT Before You Overhead 1-702-227-2929

RAILROAD Call Before 1-800-336-9193

UnderGround

ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/201 **REVISED PER REVISION NO. 3** 02/13/2020 APPROV

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CLARK COUNTY WATER RECLAMATION DISTRICT



PROJECT NO. 136077

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

FIRST APPROVED DATE:

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE ELECTRICAL PLAN

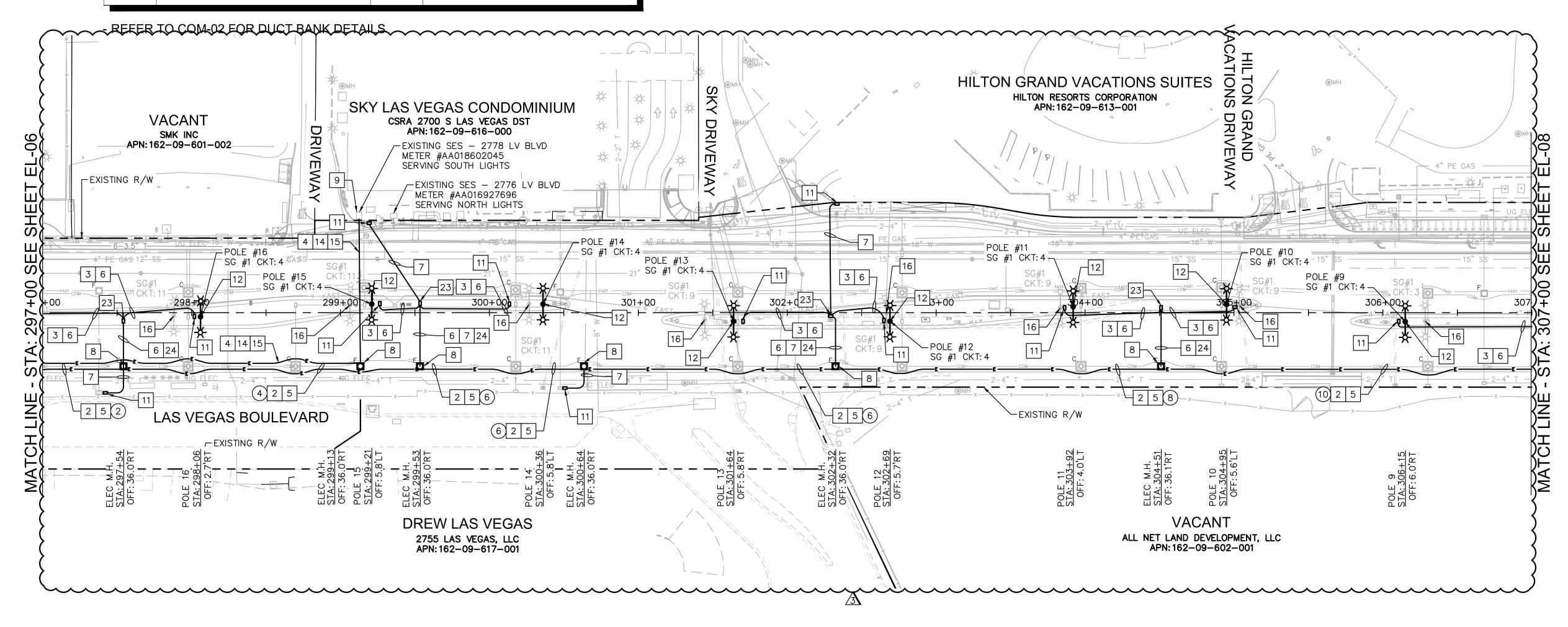
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



	Kim	ley Horn ard South, Suite 320 Tel. No.(702) 862–3600
}	DATE:	02-13-2020
	CHECKED BY:	DH
	DRAWN BY:	MT
	DESIGNED BY:	DJC

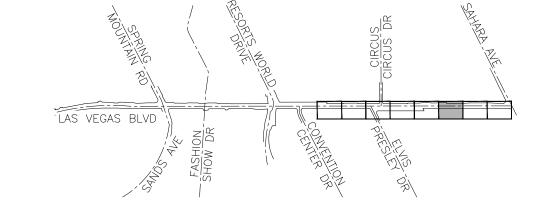
CALE	SHEET No
HORIZ: 1"=40'	EL-06
VERT: N/A	
FIELD BOOK NONE	SHEET 240 OF 345
	L-2210

TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
2	(2) - 2": A1 - A2	7	(7) - 2": A1 - A7
3	(3) - 2": A1 - A3	8	(8) - 2": A1 - A8
4	(4) - 2": A1 - A4	9	(9) - 2": A1 - A9
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6	(6) - 2": A1 - A6		



GENERAL SHEET NOTES

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KEY MAP

CONSTRUCTION NOTES

- 2 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
- 3 PROVIDE POWER LATERALS, SEE DETAIL D-1 ON COM-03.
- 4 PROVIDE POWER LATERALS, SEE DETAIL F ON COM-04.
- 5 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND PER CIRCUIT IN '11' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 6 PROVIDE (2) XHHW-2 OR THW-2 CONDUCTORS AND (1) XHHW-2 OR THW-2 GROUND IN 'LI1' OR 'LI' LATERAL' CONDUIT FOR STREET LIGHT CIRCUIT. REFER TO DETAIL ON EL-10 FOR CABLE SIZES.
- 7 PROVIDE ONE ADDITIONAL 2" PVC POWER LATERAL FOR FUTURE TICKET VENDING MACHINE AT BUS STOP, SEE DETAIL D-2 ON COM-03.
- 8 PROVIDE TRAFFIC RATED ELECTRICAL MANHOLE PER DETAIL COM-06. REFER TO LID DETAILS FOR LID INSCRIPTIONS.
- 9 CONNECT TO EXISTING METERS AT 2778 LV BLVD. COORDINATE AND CONNECT EXISTING LANDSCAPE LIGHTING AND STREET LIGHT METERS TO THE PROPER CORRESPONDING NEW SWITCHGEAR.
- 11 PROVIDE STANDARD #5 ELECTRICAL PULL BOX WITH 'EXTENSION, STANDARD DRAWING 706.
- 12 PROVIDE TWO TYPE A STREET LIGHT ASSEMBLIES ON COUNTY FURNISHED SMART POLE. INSTALL NEW FOUNDATION PER POLE MANUFACTURERS FOUNDATION DESIGN.
- 14 PROVIDE (2) SETS OF (4) 350 KCMIL XHHW-2 CONDUCTORS AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW STREET LIGHTING SWITCHGEAR MAIN CIRCUIT BREAKER.
- 15 PROVIDE (2) SETS OF (4) 350 KCMIL XHHW-2 CONDUCTORS AND (1) #2 AWG THWN-2 GROUND BETWEEN THE EXISTING METER CIRCUIT BREAKER AND THE NEW LANDSCAPE LIGHTING SWITCHGEAR MAIN CIRCUIT BREAKER.
- 16 REMOVE EXISTING LUMINAIRE, POLE, AND FOUNDATION, SALVAGE LUMINARE AND POLE TO THE COUNTY. BACK FILL EXCAVATION WITH COMPACTED NATIVE MATERIAL.
- 23 PROVIDE STANDARD #7 ELECTRICAL PULL BOX WITH EXTENTION, STANDARD DRAWING 707.
- 24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.





Call Before



SAFETY ALERT

1-800-336-9193



ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/201 **REVISED PER REVISION NO. 3** 02/13/2020 APPROVI

CCWRD PIPES NUMBER IS #19.949
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DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

CLARK COUNTY WATER RECLAMATION DISTRICT



PROJECT NO. 136077

APPROVED FOR CONSTRUCTION

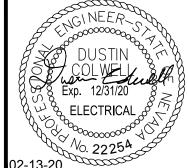
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

FIRST APPROVED DATE:

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE ELECTRICAL PLAN

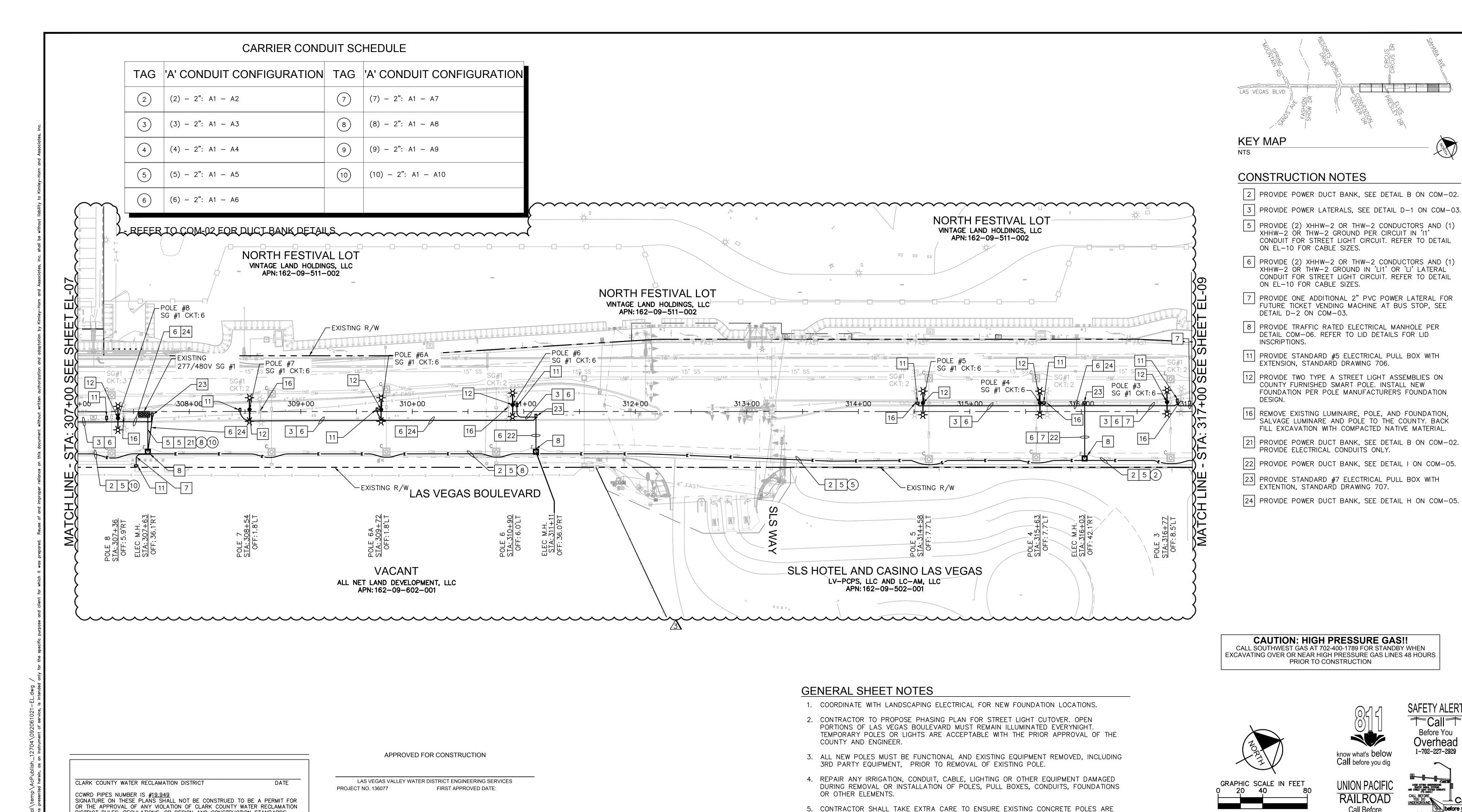
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



	Kim	ley»Horn
	DATE:	02-13-2020
	DRAWN BY: CHECKED BY:	DH
		MT
	DESIGNED BY:	DJC

	SCALE	
	HORIZ:	1"=40'
	VERT:	N/A
n	FIELD BOOK	NONE
2 7600		

EL-07 SHEET 241 OF 345 L-2210



ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/2019 REVISED PER REVISION NO. 3 02/13/2020 APPROVI

DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.



LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

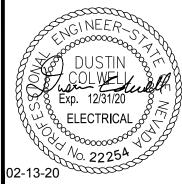
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE ELECTRICAL PLAN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

OR OTHER ELEMENTS.

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NOT DAMAGED DURING REMOVAL AND TRANSPORT TO CLARK COUNTY STORAGE YARD.



Dimos	DRAWN BY: CHECKED BY: DATE:	MT DH 02-13-2020	
	KIM 6671 Las Vegas Boulevo Las Vegas, Nevada 89		

				1-80
DESIGNED BY:	DJC		SCALE	
DRAWN BY:	MT			411 401
CHECKED BY:	DH		HORIZ:	1"=40'
DATE:	02-13-2020		VERT:	N/A
Kim	ev»	Horn	FIELD BOOK	NONE
	IC y "			
6671 Las Vegas Boulev	ard South, Suite 320	T-1 N- (700) 860 7600		

	RAILRO Call Befo You D 1-800-336-	ore UnderGr Dig 1-702-43	2-5300
		SHEET No	
IORIZ:	1"=40'	EL-08	
ERT:	N/A		

SHEET 242 OF 345

L-2210

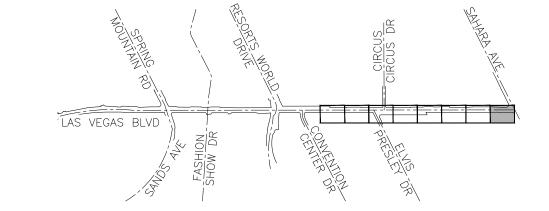
TAG	'A' CONDUIT CONFIGURATION	TAG	'A' CONDUIT CONFIGURATION
2	(2) - 2": A1 - A2	7	(7) - 2": A1 - A7
3	(3) - 2": A1 - A3	8	(8) - 2": A1 - A8
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5	(5) - 2": A1 - A5	10	(10) - 2": A1 - A10
6	(6) - 2": A1 - A6		

- REFER TO COM-02 FOR DUCT BANK DETAILS

EXISTING R/W BONANZA GIFT AND SOUVENIR SHOPS NORTH FESTIVAL LOT L'CHAIM 24 FREMONT PROPERTY, LLC VINTAGE LAND HOLDINGS, LLC APN: 162-09-510-002 APN: 162-04-812-003 🦰 SG #1 "CKT: 6 💳 → 321+00321+23 CAUTION: HIGH PRESSURE GAS!! POLE #2 SG #1 CKT: 6-6 24 LAS VEGAS BOULEVARD LAS VEGAS BOULEVARD -EXISTING R/W WALGREENS SAHARA DEVELOPMENT, LLC APN: 162-03-422-001 SLS HOTEL AND CASINO LAS VEGAS LV-PCPS, LLC AND LC-AM, LLC APN: 162-09-502-001

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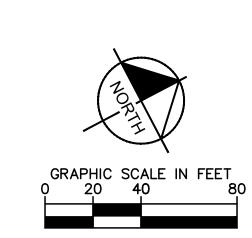
KEY MAP

CONSTRUCTION NOTES

- 1 INSTALL NEW 15' MAST ARM WITH TYPE B LIGHT ASSEMBLY ON EXISTING TRAFFIC POLE.
- 2 PROVIDE POWER DUCT BANK, SEE DETAIL B ON COM-02.
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- 24 PROVIDE POWER DUCT BANK, SEE DETAIL H ON COM-05.

CAUTION: HIGH PRESSURE GAS!!

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





Before You Overhead

RAILROAD Call Before You Dig



SAFETY ALERT

	Kim 6671 Las Vegas Boulevo Las Vegas, Nevada 89	ard South, Suite 320	Horn Tel. No.(702) 862-3600
48	DATE:	02-13-2020	
\$	CHECKED BY:	DH	
	DRAWN BY:	MT	
	DESIGNED BY:	DJC	

		1-000-330-	-9193 FREEWAY AND ARTERIAL SYSTEM
	SCALE		SHEET No
	HORIZ:	1"=40'	EL-09
-	VERT:	N/A	
	FIELD BOOK	NONE	SHEET 243 OF
			1 2210

EET 243 OF 345

ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/2019 REVISED PER REVISION NO. 3 02/10/2020 APPROVI

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CLARK COUNTY WATER RECLAMATION DISTRICT



PROJECT NO. 136077

APPROVED FOR CONSTRUCTION

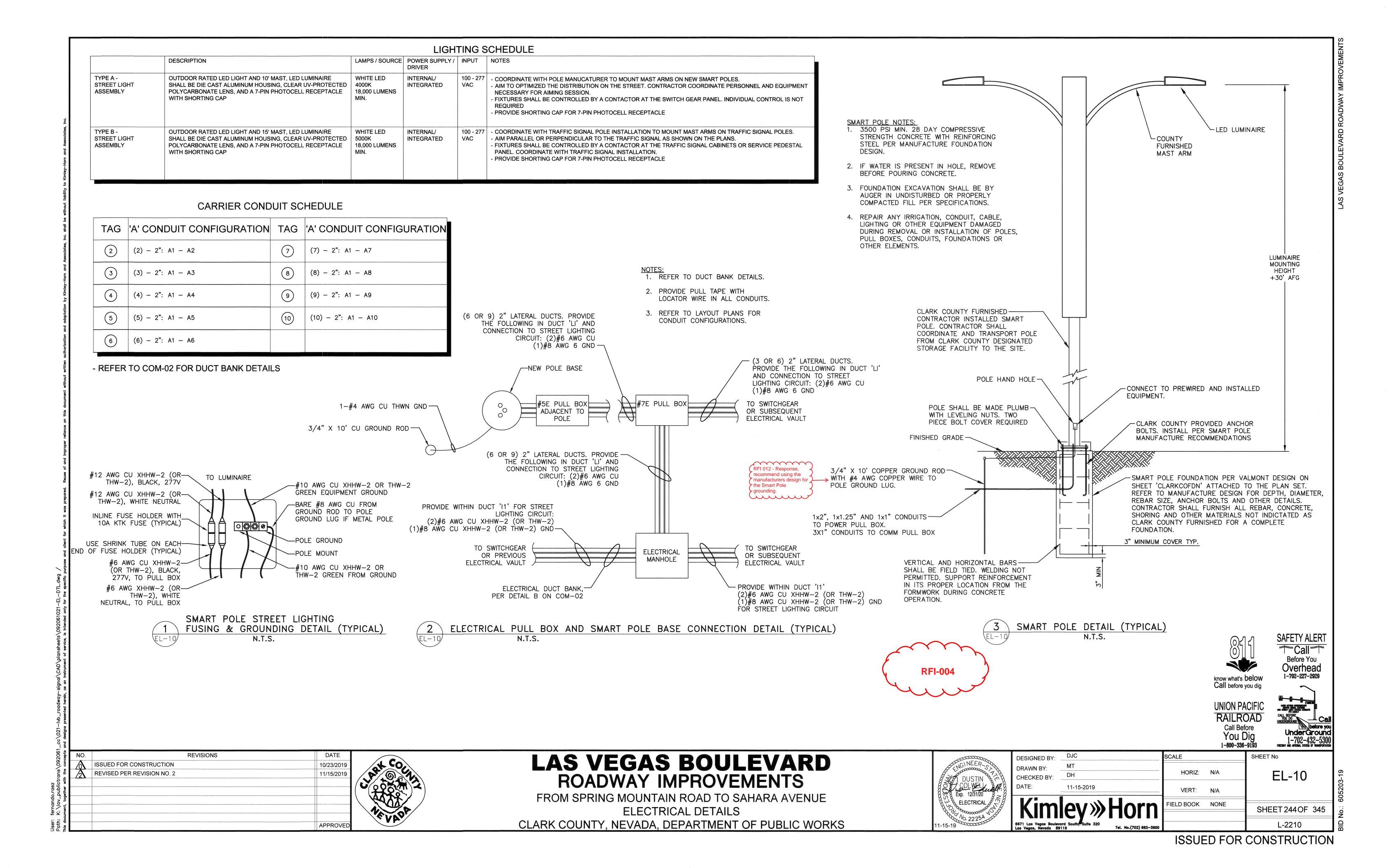
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

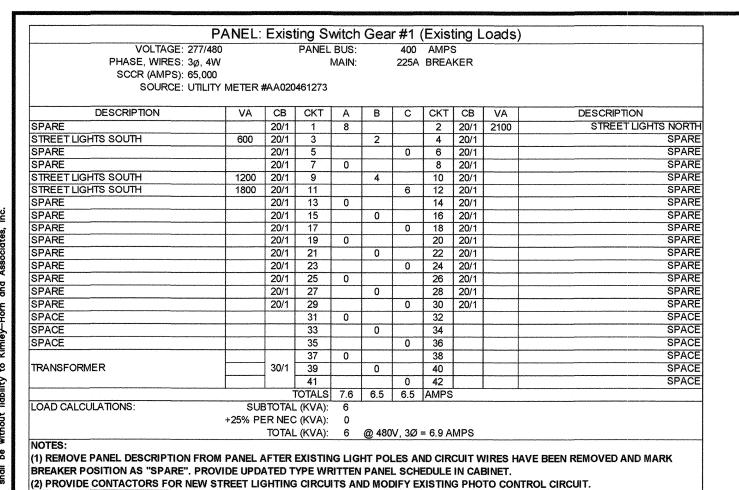
FIRST APPROVED DATE:

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE

ELECTRICAL PLAN CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS





PHASE, WIRES: 3ø, 4W

SCCR (AMPS): 65,000

DESCRIPTION

CELL TOWER POLE #2 (FUTURE)

CELL TOWER POLE #3 (FUTURE)

CELL TOWER POLE #5 (FUTURE)
CELL TOWER POLE #6 (FUTURE)
CELL TOWER POLE #7 (FUTURE)
CELL TOWER POLE #8 (FUTURE)

LOAD CALCULATIONS:

SOURCE: UTILITY METER #AA020461273

SUBTOTAL (KVA): 6 +25% PER NEC (KVA): 0

(2) PROVIDE CONTACTORS FOR NEW STREET LIGHTING CIRCUITS AND MODIFY EXISTING PHOTO CONTROL CIRCUIT.

BREAKER POSITION AS "SPARE". PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULE IN CABINET.

PROVIDE NEW CIRCUIT BREAKERS FOR FUTURE CELL TOWER LOADS

(1) REMOVE PANEL DESCRIPTION FROM PANEL AFTER EXISTING LIGHT POLES AND CIRCUIT WIRES HAVE BEEN REMOVED AND MARK

PANEL: Existing Switch Gear #1 (New Loads)

PANEL BUS: 400 AMPS

VA CB CKT A B C CKT CB VA

MAIN: 225A BREAKER

VOLTAGE: 277/480			PANEL				AMPS		oads)	
PHASE, WIRES: 3ø, 4W				MAIN:		225A	BREA	KER		
SCCR (AMPS): 35,000										
SOURCE: UTILITY	METER:	#AA016	927700							
DESCRIPTION	VA	СВ	CKT	Α	В	С	CKT	СВ	VA	DESCRIPTION
STREET LIGHTS	1200	20/1	1	4			2			SPACE
STREET LIGHTS	1500	20/1	3		5		4			SPACE
STREET LIGHTS	1500	20/1	5			5	6			SPACE
SPARE			7	0			8			SPACE
SPACE			9		0		10			SPACE
SPACE			11			0	12			SPACE
SPACE			13	0	-		14			SPACE
SPACE			15		0		16			SPACE
SPACE			17			0	18			SPACE
SPACE			19	0			20			SPACE
SPACE			21		0		22			SPACE
SPACE			23			0	24			SPACE
SPACE			25	0			26	20/1		SPARE
SPACE			27		0		28	20/1		SPARE
SPACE			29			0	30	20/1		SPARE
SPARE		20/1	31	0			32	20/1		SPARE
SPARE		20/1	33		0		34	20/1		SPARE
SPARE		20/1	35			0	36	20/1		SPARE
SPARE		20/1	37	0			38	20/1		SPARE
SPARE		20/1	39		0		40	20/1		SPARE
						0				
			TOTALS	4.3	5.4	5.4	AMPS			
LOAD CALCULATIONS:			. (KVA): : (KVA):							
	20/011		(KVA):		@ 480	V 30	= 64A	MPS		
NOTES:		·OIAL	- (KVP).	0200	₩ 100	¥, 00	V.7 /\	0		

VOLTAGE: 277/48		Alou	PANEL		Oea		AMP		Loads)	
PHASE, WIRES: 3ø, 4W	1		ı	MAIN:		250A	BREA	KER		
SCCR (AMPS): 35,000										
SOURCE: UTILITY	METER	#AA016	927699							
DESCRIPTION	VA	СВ	СКТ	Α	В	С	CKT	СВ	VA	DESCRIPTION
SPACE			1	0			2			SPAC
STREET LIGHTS	900	20/1	3	************	3		4			SPAC
STREET LIGHTS	1800	20/1	5			6	6			SPAC
STREET LIGHTS	600	20/1	7	2			8			SPAC
STREET LIGHTS	1200	20/1	9		4	ļ .	10			SPAC
STREET LIGHTS		20/1	11		†	0	12			SPAC
SPACE			13	0			14			SPAC
CONTACTOR		30/1	15	***************************************	0		16			SPAC
SPACE			17		 	0	18			SPAC
SPACE			19	0		<u> </u>	20			SPAC
SPACE			21		0		22			SPAC
SPACE			23			0	24			SPAC
SPACE		†	25	0			26			SPAC
SPACE			27		0	 	28	20/1		SPAR
SPACE			29			0	30	20/1		SPAR
SPACE			31	0			32	20/1		SPAR
SPACE			33	**********	0		34	20/1		SPAR
SPARE		20/1	35			0	36	20/1		SPAR
SPARE		20/1	37	0			38	20/1		SPAR
SPARE		20/1	39		0		40	20/1		SPAR
SPARE	1	20/1	41	***********		0	42	20/1		SPAR
			TOTALS	2.2	7.6	6.5	AMPS		<u> </u>	
OAD CALCULATIONS:	SUE	STOTAL	. (KVA):	4500	<u> </u>					
	+25% PE		. ,							
			(KVA):		@ 480	V. 3Ø	= 6.8 A	MPS		
NOTES:					<u> </u>	,				

EXISTING PANEL SCHEDULES

NEW STREET LIGHTS SOUTH

NEW STREET LIGHTS NORTH

LL TOWER POLE #9 (FUTURE)

CELL TOWER POLE #12 (FUTURE) CELL TOWER POLE #13 (FUTURE)

CELL TOWER POLE #14 (FUTURE

CELL TOWER POLE #15 (FUTURE)

CELL TOWER POLE #16 (FUTURE)

CELL TOWER POLE #17 (FUTURE)

PANEL: New Switch Gear #2 (New Loads) PANEL BUS: 400 AMPS PHASE, WIRES: 3ø, 4W SCCR (AMPS): 35,000 SOURCE: UTILITY METER #AA016927700 VA CB CKT A B C CKT CB VA

30/1 1 4 2 2 20/1 1200

30/1 3 9 4 20/1 2400

30/1 5 2 6 20/1 600

30/1 7 0 8 30/1 C

30/1 9 0 10 30/1 C

30/1 11 0 12 30/1 CE

20/1 15 0 16 30/1 CEL

20/1 17 0 18 20/1 CELL TOWER POLE #20 (FUTURE) NEW STREET LIGHTS SOUTH CELL TOWER POLE #21 (FUTURE) NEW STREET LIGHTS NORTH CELL TOWER POLE #22 (FUTURE) **CELL TOWER POLE #23 (FUTURE) CELL TOWER POLE #24 (FUTURE)** CELL TOWER POLE #28 (FUTURE) **CELL TOWER POLE #25 (FUTURE)** CELL TOWER POLE #29 (FUTURE) CELL TOWER POLE #26 (FUTURE) CELL TOWER POLE #30 (FUTURE) CELL TOWER POLE #31 (FUTURE) TICKET VENDING MACHINE SPACE LOAD CALCULATIONS: SUBTOTAL (KVA): 4200 +25% PER NEC (KVA): 1050 (1) PROVIDE PHOTOCELL, PHOTO CONTROL CIRCUIT, TEST TOGGLE SWITCH, AND CONTACTORS FOR STREET LIGHTING CIRCUITS. PANEL: Existing Switch Gear #3 (New Loads)

480 PANEL BUS: 400 AMPS

			MAIN:		250A	BREA	KER		
METER:	#AA016	927699							
I VA	CB	CKT	Α	B	С	CKT	CB	VA I	DESCRIPTION
 				 					NEW STREET LIGHTS SOUTH
 				10					NEW STREET LIGHTS NORTH
 					0			2700	CELL TOWER POLE #40 (FUTURE
†		7	0			1			CELL TOWER POLE #41 (FUTURE
 	30/1	9		0					CELL TOWER POLE #42 (FUTURE
 	30/1	11			0		30/1		CELL TOWER POLE #43 (FUTURE
	30/1	13	0			14	30/1		CELL TOWER POLE #44 (FUTURE
600	30/1	15		2		16	30/1		CELL TOWER POLE #45 (FUTURE
	30/1	17			0	18	30/1		CELL TOWER POLE #46 (FUTURE
		19	0	1		20	20/1		TICKET VENDING MACHINI
		21		0		22			SPACE
		23			0	24			SPACE
		25	0			26			SPACE
1		27		0		28	20/1		SPARE
		29	***************************************	<u> </u>	0	30	20/1		SPARE
		31	0			32	20/1		SPARE
		33		0		34	20/1		SPARE
	20/1	35		 	0	36	20/1		SPARE
	20/1	37	0			38	20/1		SPARE
	20/1	39		0		40	20/1		SPARE
	20/1	41			0	42	20/1		SPARE
	-	TOTALS	6.5	11.9	0.0	AMPS			
SUE	STOTAL	_ (KVA):	5100						
+25% PE	ER NEC	(KVA):	1275						
	TOTAL	(KVA).	6375	@ 480	V. 3Ø	= 7.7 A	MPS		
	IOIAL	- (1 (W) (Y)		(C)	-,				
	600 SUE	VA CB 30/1 30/1 30/1 30/1 30/1 30/1 30/1 600 30/1 30/1 20/1 20/1 20/1 20/1	METER #AA016927699 VA CB CKT 30/1 1 30/1 3 30/1 5 30/1 7 30/1 9 30/1 11 30/1 13 600 30/1 15 30/1 17 19 21 23 25 27 29 31 33 20/1 35 20/1 37 20/1 39 20/1 41 TOTALS SUBTOTAL (KVA):	VA CB CKT A 30/1 1 6 30/1 3 30/1 5 30/1 7 0 30/1 9 30/1 11 30/1 13 0 600 30/1 15 30/1 17 19 0 21 23 25 0 27 29 31 0 33 0 20/1 35 20/1 37 0 20/1 39	MAIN: METER #AA016927699 VA CB CKT A B 30/1 1 6 30/1 3 10 30/1 5 30/1 7 0 30/1 9 0 30/1 11 30/1 13 0 600 30/1 15 2 30/1 17 19 0 21 0 21 0 221 0 23	MAIN: 250A METER #AA016927699 VA CB CKT A B C 30/1 1 6 30/1 3 10 30/1 5 0 30/1 7 0 30/1 9 0 30/1 11 0 30/1 11 0 30/1 11 0 30/1 15 2 30/1 15 2 30/1 17 0 600 30/1 15 2 30/1 17 0 19 0 21 0 21 0 221 0 223 0 25 0 27 0 29 0 31 0 20/1 35 0 20/1 35 0 20/1 37 0 20/1 39 0 20/1 41 0 TOTALS 6.5 11.9 0.0	MAIN: 250A BREAM METER #AA016927699 VA	MAIN: 250A BREAKER METER #AA016927699 VA CB CKT A B C CKT CB 30/1 1 6 2 20/1 30/1 3 10 4 20/1 30/1 5 0 6 30/1 30/1 7 0 8 30/1 30/1 11 0 12 30/1 30/1 11 0 12 30/1 30/1 11 0 12 30/1 30/1 11 0 12 30/1 30/1 13 0 14 30/1 600 30/1 15 2 16 30/1 30/1 17 0 18 30/1 30/1 17 0 18 30/1 19 0 20 20/1 21 0 22 23 0 24 25 0 26 27 0 28 20/1 29 0 30 20/1 29 0 30 20/1 31 0 32 20/1 20/1 35 0 36 20/1 20/1 37 0 38 20/1 20/1 39 0 40 20/1 20/1 39 0 40 20/1 20/1 39 0 40 20/1 20/1 39 0 40 20/1 20/1 39 0 40 20/1 20/1 39 0 40 20/1 20/1 41 0 42 20/1 TOTALS 6.5 11.9 0.0 AMPS	MAIN: 250A BREAKER METER #AA016927699 VA CB CKT A B C CKT CB VA 30/1 1 6 2 20/1 1800 30/1 3 10 4 20/1 2700 30/1 5 0 6 30/1 30/1 7 0 8 30/1 30/1 17 0 8 30/1 30/1 11 0 12 30/1 30/1 13 0 14 30/1 30/1 13 0 14 30/1 600 30/1 15 2 16 30/1 30/1 17 0 18 30/1 600 30/1 17 0 18 30/1 19 0 20 20/1 21 0 22 2 23 0 24 2 23 0 24 2 25 0 26 26 26 27 27 0 28 20/1 29 0 30 20/1 31 0 32 20/1 31 0 32 20/1 20/1 35 0 36 20/1 20/1 37 0 38 20/1 20/1 39 0 40 20/1 20/1 39 0 40 20/1 20/1 39 0 40 20/1 20/1 39 0 40 20/1 TOTALS 6.5 11.9 0.0 AMPS SUBTOTAL (KVA): 5100

NEMA 3R ENCLOSURE -SECTION 1 SECTION 2 NEMA 3R ENCLOSURE -STREET LIGHTING LANDSCAPING LANDSCAPING PANEL PANEL PANEL 480/277V, 250A 240/120V, 100A 480/277V, 250A MCB, 400A BUS, BUS 100A MCB, MCB, 400A BUS, 3PH, 4W, 1PH, 3W 3PH, 4W, 18 CKT 42 CKT 42 CKT CUTLER-HAMMER CUTLER-HAMMER **CUTLER-HAMMER** #PRL-1A OR #PRL-2A OR **EQUAL** #PRL-2A OR EQUAL EQUAL DUCT BANK PER LAYOUT PLANS. COORDINATE ROUTING AND PENETRATIONS WITH BOLLARD LOCATIONS. (TYPICAL ALL CONDUITS)-XFMR SECTION 25KVA, 480V-208/120V ANCHOR SWITCHGEAR PER MANUFACTURER'S REQUIREMENTS IN BOLLARD FOUNDATION (TYPICAL) ----FED 30A BKRK LANDSCAPING 480/277V PANEL BOLLARD FOUNDATION

SWITCHGEAR #2 ELECTRICAL DETAIL

know what's **below**Call before you dig

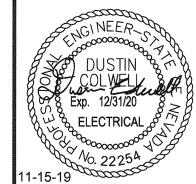
REVISIONS ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 APPROVE



PROPOSED PANEL SCHEDULES

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE ELECTRICAL DETAILS CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



DATE:	ev» Horn	FIE
DESIGNED BY: DRAWN BY: CHECKED BY:	DJC MT DH	SCA

SHEET No HORIZ: N/A EL-11 IELD BOOK NONE SHEET 245 OF 345 L-2210

ISSUED FOR CONSTRUCTION

1. ALL WORK SHALL BE CONFINED TO LIMITS OF CONSTRUCTION AS SHOWN ON PLANS.

CONSTRUCTION OF HIS WORK, AND SHALL BEAR THE COST OF REPLACING SAME.

- 2. SITE GRADING NECESSITATED BY THE WORK AS IT PROGRESSES AND NOT SPECIFICALLY CALLED OUT ON THE PLANS SHALL BE CONSIDERED INCIDENTAL WORK.
- 3. CONTRACTOR SHALL COORDINATE AND BE IN COMPLIANCE WITH ALL STATE AND LOCAL MUNICIPALITIES AS WARRANTED.
- 4. CONTRACTOR IS TO REVIEW PLANS, VERIFY SITE CONDITIONS AND PLANT QUANTITIES PRIOR TO INSTALLATION. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND EXISTING SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- 5. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER, OR THE LANDSCAPE ARCHITECT MAY BE CAUSE FOR THE WORK TO BE DESIGNATED UNACCEPTABLE.
- 6. THE CONTRACTOR ACKNOWLEDGES & AGREES THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SITE IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY BY THE OWNER.
- 7. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS AND HUBS DURING THE
- 8. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC AND PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION
- 9. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC., DURING ALL CONSTRUCTION PHASES UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- 10. ANY FOREIGN ITEM FOUND DURING CONSTRUCTION IS THE PROPERTY OF THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, PRECIOUS METALS, COINS, PAPER CURRENCY, ARTIFACTS AND ANTIQUITIES.
- 11. ALL SURPLUS EXCAVATION SHALL BE TAKEN TO A SITE DESIGNATED BY OWNER, AT NO ADDITIONAL COST TO THE OWNER. IF OWNER CHOOSES, THE CONTRACTOR MAY TAKE POSSESSION OF SURPLUS EXCAVATION MATERIAL.
- 12. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND/OR OBTAINING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- 13. CONTRACTOR IS TO MAINTAIN CONTROLLED PEDESTRIAN AND ADA ACCESS THROUGH ALL AREAS OF THE SITE THROUGHOUT CONSTRUCTION
- 14. MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION AT ALL TIMES. DAILY, AND MORE OFTEN IF NECESSARY, INSPECT & AND PICK UP ALL SCRAP, DEBRIS, & WASTE MATERIAL.
- 15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, ROCK MULCH AND OTHER MATERIALS TRACKED ONTO ANY PRIVATE OR PUBLIC STREETS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN THESE DAILY, IF NECESSARY. THE CONTRACTOR MUST USE WATER OR OTHER ACCEPTABLE METHODS TO KEEP AIRBORNE DUST TO A REQUIRED MINIMUM.
- 16. PROVIDE PROTECTION TO ALL FINISHED WORK. MAINTAIN SURFACES CLEAN, UNMARRED, AND SUITABLY PROTECTED UNTIL ACCEPTANCE BY
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY TO EXISTING ELEMENTS THAT ARE TO REMAIN.
- 18. EROSION CONTROL MEASURES (IE: SILT FENCING AND SEDIMENT CONTROL) SHALL BE MAINTAINED BY THE CONTRACTOR PER CIVIL SPECIFICATIONS. ANY EROSION CONTROL MEASURES DAMAGED BY THE CONTRÁCTOR SHALL BE REPLACED PER CIVIL SPECIFICATIONS.
- 19. PLANT QUANTITIES LISTED IN THE PLANT LEGEND ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL DO THEIR OWN TAKE-OFFS AND BASE BID ACCORDINGLY.
- 20. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL BRANCHED, AND DENSELY FOLIATED (WHEN IN-LEAF) AS IS TYPICAL FOR THE SPECIES. THEY SHALL HAVE HEALTHY, WELL DEVELOPED STANDARDS, AND FREE OF ANY BRUISES, CUTS OR OTHER ABNORMALITIES. PLANT MATERIAL SHALL BE SIZED IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK. LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.
- 21. OWNERS REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL DEEMED UNACCEPTABLE.
- 22. LANDSCAPE CONTRACTOR TO TAG AND HOLD ALL PLANT MATERIAL A MINIMUM OF 30 DAYS PRIOR TO DATE OF INSTALLATION. ALL PLANT MATERIAL SUBSTITUTIONS MADE WITHIN THE 30 DAYS PRIOR TO INSTALLATION TO BE THE NEXT SIZE LARGER AT NO ADDITIONAL COST TO
- 23. ALL TREE LOCATIONS TO BE STAKED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 24. INSTALL ALL PALMS WITH A MINIMUM OF 5 FT. SEPARATION FROM ALL UTILITIES, UNLESS A ROOT BARRIER IS UTILIZED.
- 25. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN PLANTED AREAS BY MEANS OF CONTINUOUS WATERING, PRUNING, RAISING TREE ROOT BALLS WHICH SETTLE BELOW GRADE, APPLICATION OF SPRAYS WHICH ARE NECESSARY TO KEEP THE PLANTING FREE OF INSECTS AND DISEASES, FERTILIZING, WEEDING, MOVING, EDGING AND/OR OTHER OPERATIONS NECESSARY FOR PROPER CARE AND UPKEEP.
- 26. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE ENTIRE PROJECT FOR 90 DAYS AFTER ACCEPTANCE OF THE WORK OWNERS REPRESENTATIVE. UPON COMPLETION OF THE MAINTENANCE PERIOD THE OWNER WILL ASSUME ALL MAINTENANCE RESPONSIBILITY.
- 27. PRIOR TO INITIATING THE 90-DAY MAINTENANCE PERIOD, COMPLETE ANY INITIAL PUNCH-LIST ITEMS. THEN OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE OF SUBSTANTIAL COMPLETION. DETERMINE WITH THE OWNER'S REPRESENTATIVE THE START DATE FOR THE 90-DAY MAINTENANCE PERIOD. CONTRACTOR TO MAINTAIN LANDSCAPE WHICH MAY INCLUDE WATERING, WEEDING, PRUNING, AND REPLACEMENT OF ANY MATERIAL THAT HAS DIED OR IS SHOWING EVIDENCE OF STRESS. SUBMIT WRITTEN REQUEST FOR FINAL PUNCH-LIST ONE WEEK PRIOR TO END OF MAINTENANCE PERIOD.

CO

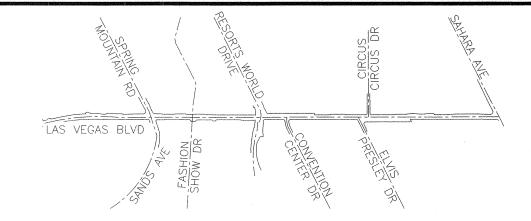
28. ALL GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND TECHNICAL SPECIFICATIONS OF THE CONTRACT SHALL APPLY.

LANDSCAPE NOTES

- 1. VERIFY ALL LAYOUT AND GRADING WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
- 2. LANDSCAPE AREAS ARE DEFINIED AS ALL NON-PAVED AREAS SHOWN ON THE PLANS WHICH ARE BOUNDED BY THE FENCE/WALLS ADJACENT TO THE ROADWAYS INCLUDING ALL ADJACENT PUBLIC RIGHT-OF-WAY AND ANY ADJACENT PROPERTIES OUTSIDE THESE LIMITS WHICH ARE DISTURBED BY ANY CONSTRUCTION ACTIVITY UNDER THIS CONTRACT.
- 3. ALL EXISTING LANDSCAPE AREAS OUTSIDE THE SITE AREA DEFINED ABOVE WHICH ARE DISTURBED BY ANY ACTIVITY UNDER THIS CONTRACT SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION AND TO THE SATISFACTION OF CLARK COUNTY AT CONTRACTOR'S EXPENSE.
- 4. RESTORATION OF LANDSCAPE AREAS OUTSIDE THE SITE AREA DEFINED ABOVE WILL BE BASED ON LIMIT OF DISTURBANCE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LIMITS OF RESTORATION AND PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE REQUIRED REPAIR WORK AS NOTED AND IN ACCORDANCE WITH CLARK COUNTY SPECIFICATIONS 107.9.
- 5. THE CONTRACTOR SHALL PROVIDE FLAGGED AND/OR STAKED LAYOUT OF ALL PLANTING LOCATIONS FOR REVIEW AND ADJUSTMENT, IF NECESSARY, BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING IRRIGATION OR PLANT PIT EXCAVATIONS.
- 6. PLANT QUANTITIES INDICATED ARE FOR GENERAL REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ALL QUANTITIES AND MATERIALS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE SYMBOLS SHOWN ON THE PLANS.

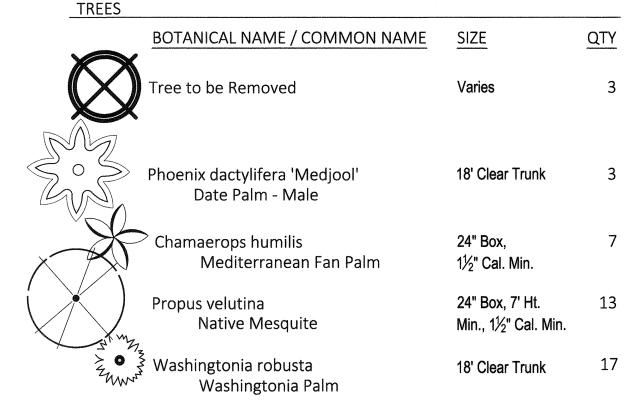
DEMOLITION NOTES

- 1. SALVAGE ALL IMPACTED CANARY PALMS AND MOVE TO "WELCOME TO LAS VEGAS" SIGN. SEE SALVAGE PLANS. COORDINATE WITH DAVID PRITCHARD PH: 702-249-7161
- 2. SALVAGE ALL UPLIGHTING AND RETURN TO CLARK COUNTY.
- 3. CONTRACTOR IS TO MAINTAIN AND KEEP OPERATIONAL ALL EXISTING ITS INFRASTRUCTURE WITHIN THE CONSTRUCTION LIMITS. IF ANY EXISTING ITS INFRASTRUCTURE IS DAMAGED DUE TO CONSTRUCTION, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT MR. JESUS "CHUY" MARMOLEJO TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN
- 4. ITS SYSTEM MUST REMAIN OPERATIONAL AT ALL TIMES. ANY TEMPORARY RELOCATIONS WILL NEED TO BE PROVIDED AND FAST APPROVAL TWO (2) WEEKS IN ADVANCE FOR SYSTEM SHUTDOWN/TRANSFER COORDINATION.
- 5. ALL EXISTING IRRIGATION EQUIPMENT INCLUDING BUT NOT LIMITED TO WATER METER, BACKFLOW PREVENTER AND ELECTRICAL SERVICE TO REMAIN AND BE REUSED. ALL OTHER IRRIGATION EQUIPMENT INCLUDING BUT NOT LIMITED TO PIPE WIRE, VALVES, BOXES, CONTROLLERS, PEDESTALS, EMITTERS, NETAFIM, TO BE PROTECTED IN PLACE. SYSTEM TO BE EXTENDED AS SHOWN ON PLANS TO PROVIDE IRRIGATION TO PROPOSED PLANTING.
- 6. IRRIGATION SLEEVES TO BE REUSED OR EXTENDED WHEN POSSIBLE.



KEY MAP

LANDSCAPE SCHEDULE



SHRUBS	, GRASSES, ACCENTS & GROUNDCOVERS		
	BOTANICAL NAME / COMMON NAME	SIZE	QTY
*	Hesperaloe parviflora	5 Gal.	85
⊗	Red Yucca Myrtus communis 'compacta' Dwarf Myrtle	5 Gal.	71
0	Nandina domestica Nandina Bamboo	5 Gal.	17
0	Rhaphiolepis indica	5 Gal.	18
*	Indian Hawthorn Yucca recurvifolia Yucca Pendula	5 Gal.	6
NERT M	1ATERIALS	n minerin eine eine eine eine gegegegen in werzel zu erwert eine Gestelle eine eine eine zwei eine zu eine ein	
14-1/1 14	DESCRIPTION		QTY

169 SF Annual Plants ₩ 6" O.C. 218 SF Artificial Turf 2,355 SF Decomposed Granite

CCWRD APPROVAL 11.25.19 CLARK COUNTY WATER RECLAMATION DISTRIC CCWRD PIPES NUMBER IS #19.949
SIGNATURE ON THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR

OR THE APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION

DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS.

Match Existing

know what's below Call before you dig

UNION PACIFIC RAILROAD Call Before You Dig 1-800-336-919

UnderGround 1-702-432-530 FREEWAY AND ARTERIAL SYSTEM OF TRANSPORTATI

SAFETY ALERT

Before You

Overhead

1-702-227-2929

10/23/2019 11/15/2019 **APPROVE**

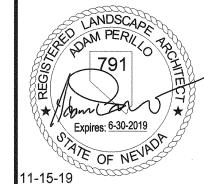
REVISIONS

ISSUED FOR CONSTRUCTION

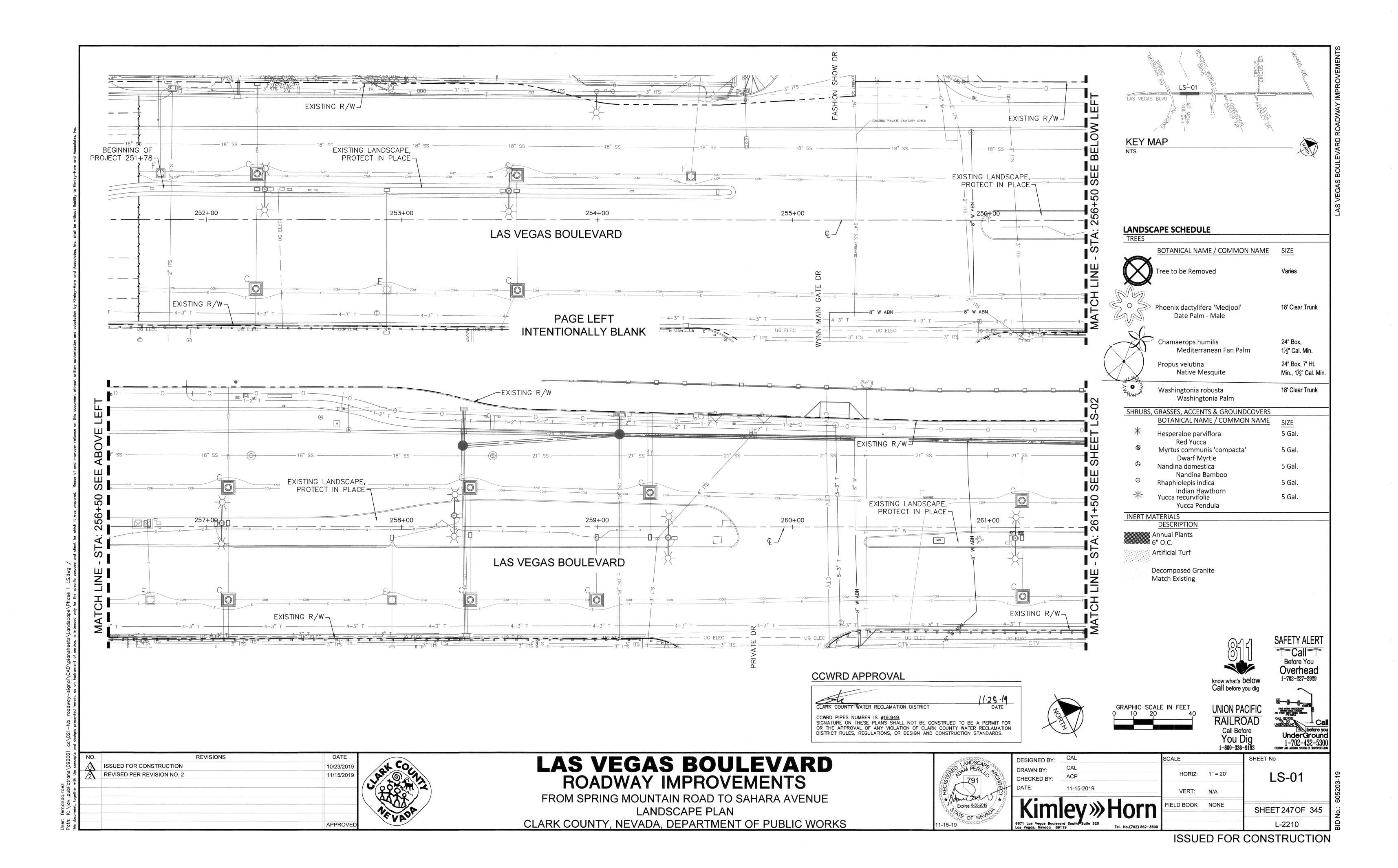
REVISED PER REVISION NO. 2

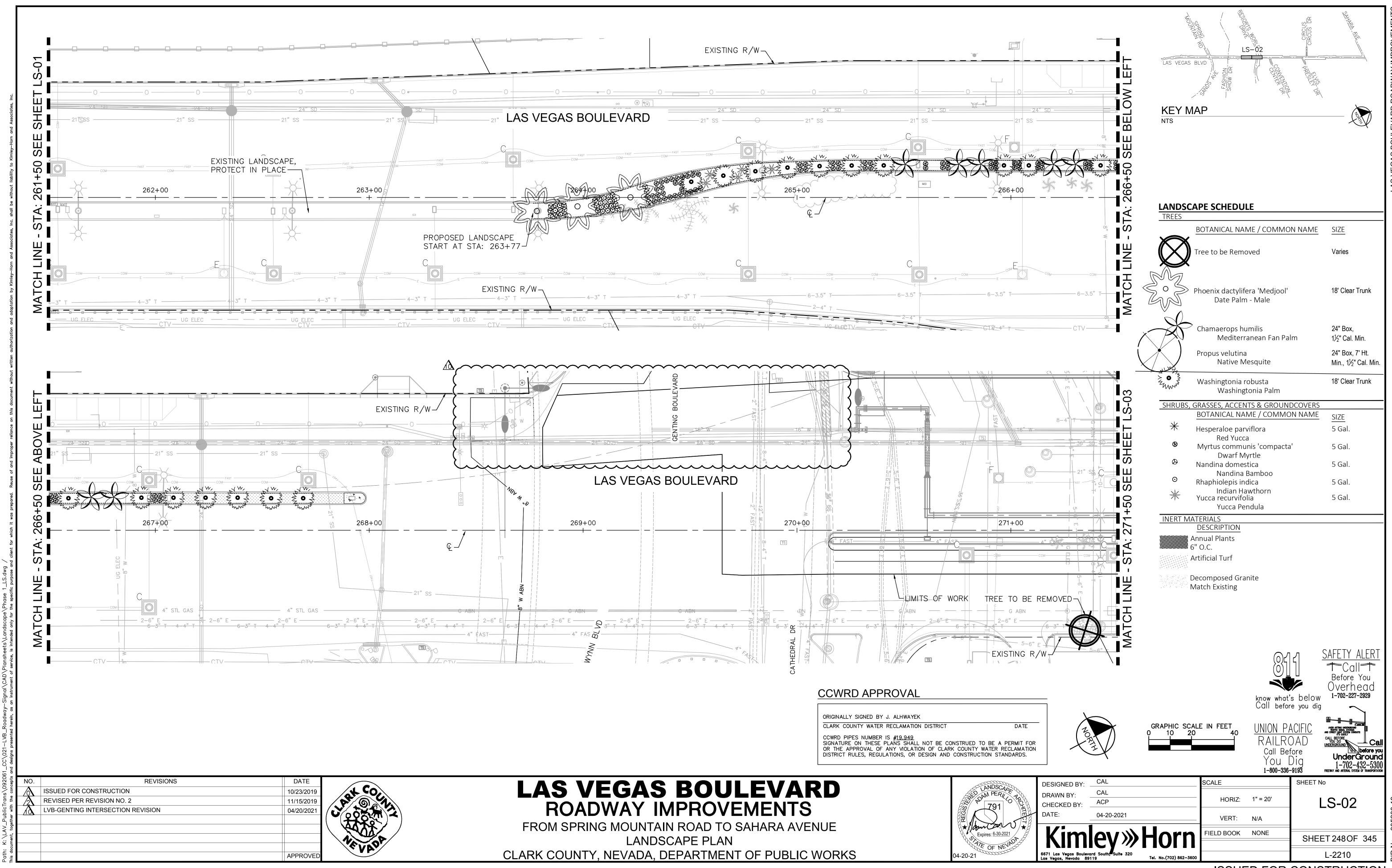
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

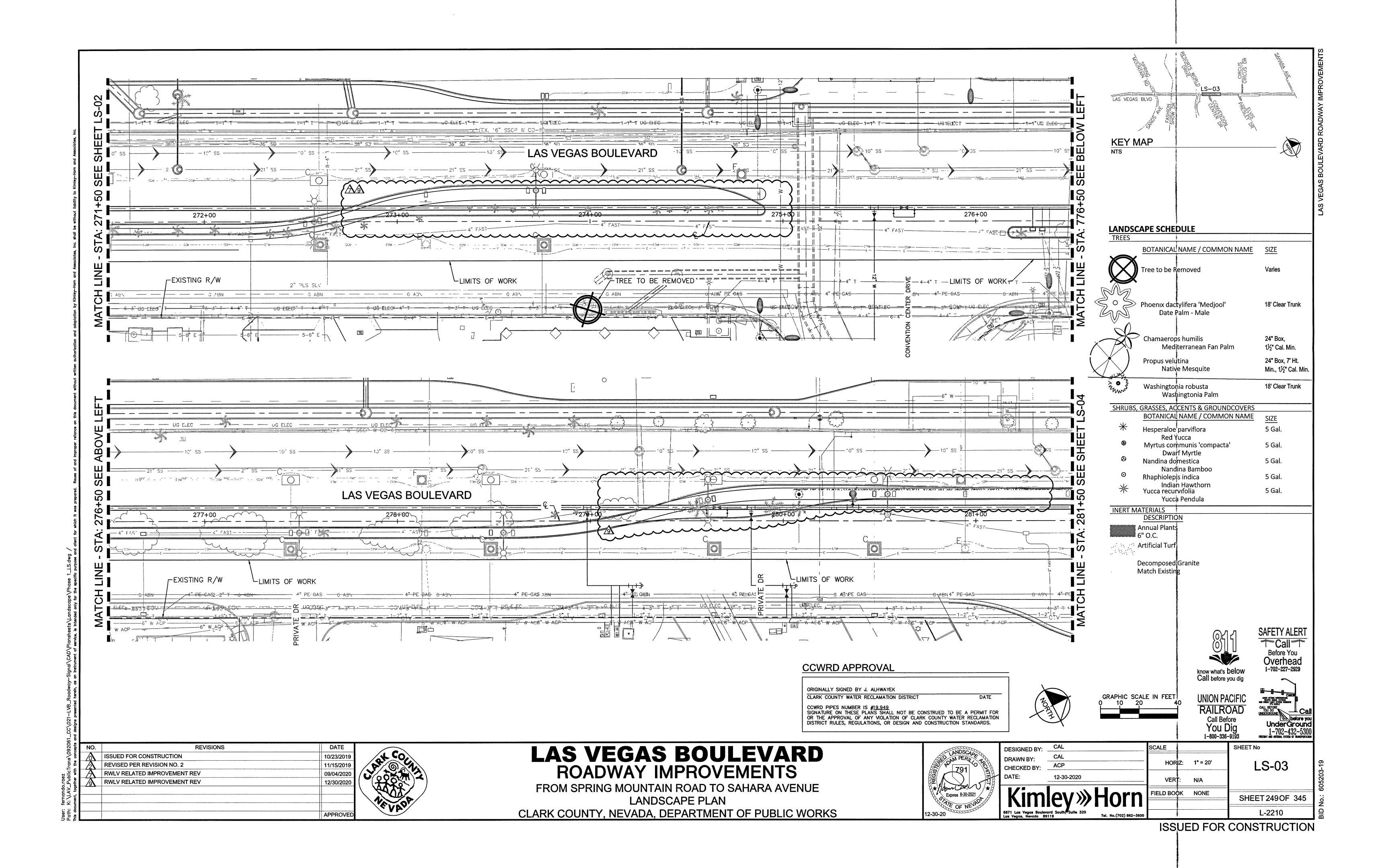
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE LANDSCAPE NOTES CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

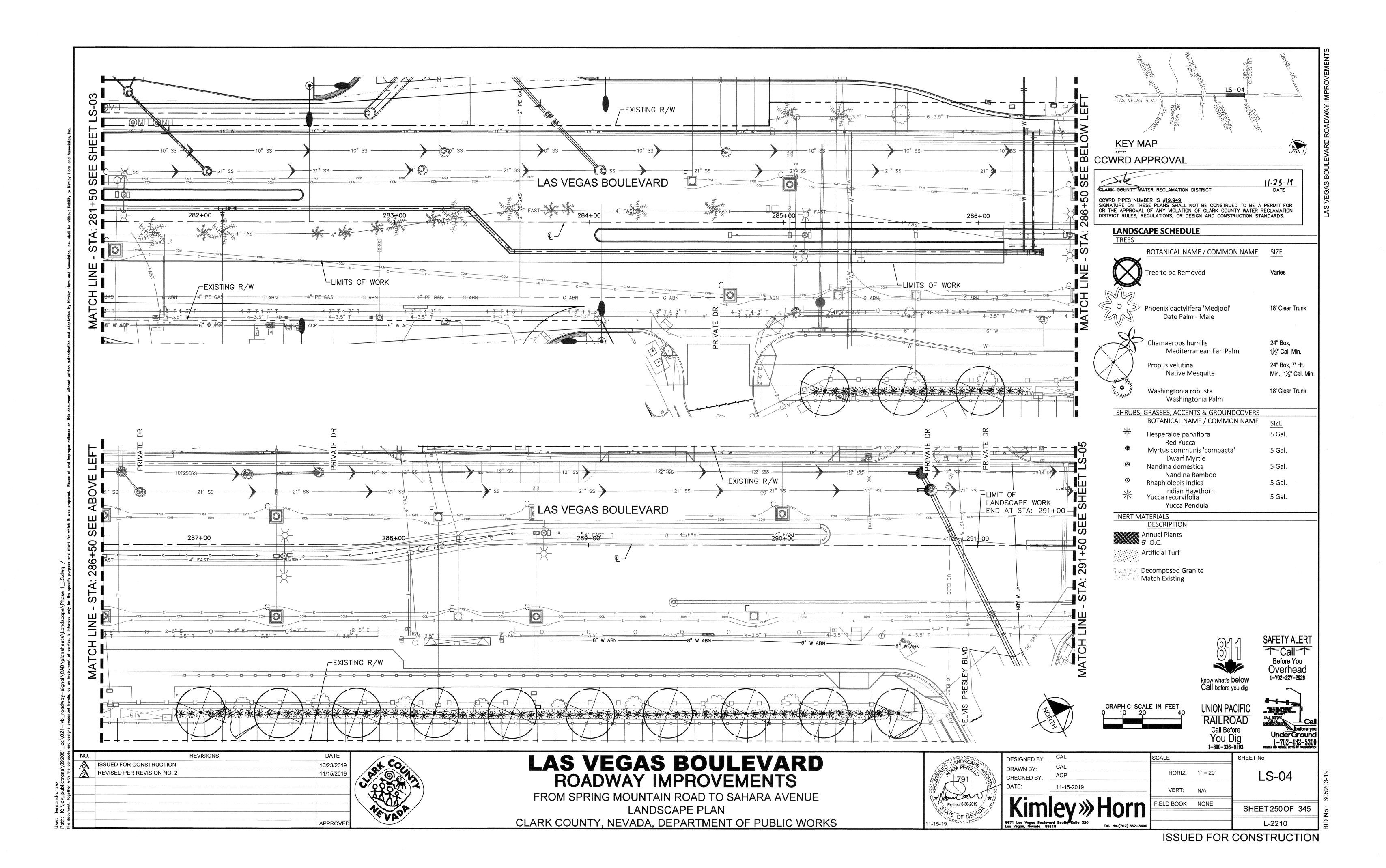


DESIGNED BY:	CAL	sc
DRAWN BY:	CAL	
CHECKED BY: DATE:	11-15-2019	
6671 Las Vegas Boulev Las Vegas, Nevada 89	ley Horn ard South, Suite 320 Tel. No.(702) 862-3600	FI









ARTIFICIAL TURF SUPPLY 830-13 A1A NORTH #160 PONTE VEDRA, FL 32082 TOLL FREE: 1-877-525-TURF (8873) PHONE: (706) 659-4513 FAX: (706) 659-4260 www.artificialturfsupply.com

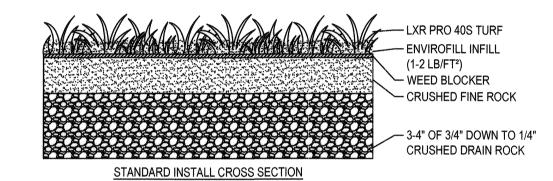
TURF DETAIL: PRODUCT: LXR PRO 40S PILE/FACE WEIGHT: 40 OZ. PILE HEIGHT: 1.75" TUFT GAUGE: 1/2" TOTAL WEIGHT: 67 OZ.

THATCH COLOR: LAWN GREEN

PRIMARY YARN TYPE: POLYETHYLENE MONOFILAMENT THICKNESS / SHAPE: 240 MICRON STAR PRIMARY COLOR: LAWN GREEN AND OLIVE GREEN THATCH YARN TYPE: TEXTURIZED POLYETHYLENE MONOFILAMENT **THATCH DENIER:** 6300 THATCH THICKNESS / SHAPE: 120 MICRON RECTANGLE

BACKING DETAIL: PRIMARY BACKING: 13 PIC AND 13 PIC POLY BACK SECONDARY COATING: URETHANE DRAINAGE PERFORATIONS: 3/16" DIAMETER AT 4" OR LESS ON-CENTER ON BOTH AXIS

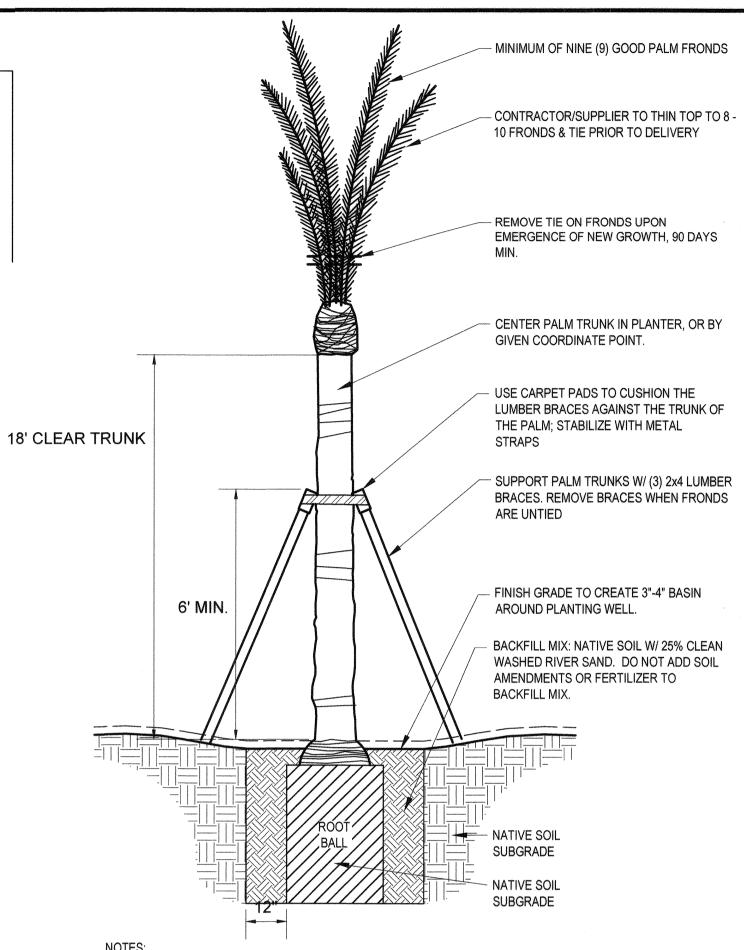
LENGTH: 100' (ALSO AVAILABLE BY THE LINEAL FOOT) SHIPPING WEIGHT: APPROX. 1/2 LB/FT² ROLL DIAMETER: APPROX. 2'



I. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

- 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION. 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY
- THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
- 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER

LANDSCAPE ARTIFICIAL GRASS

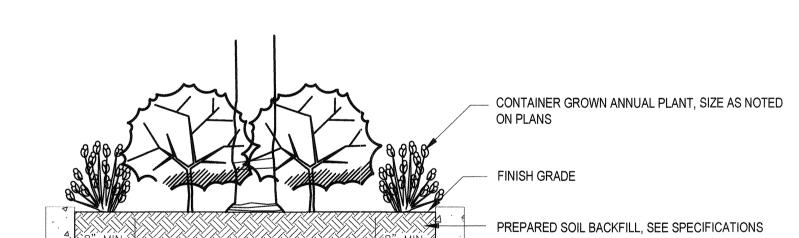


1. UTILITY LOCATIONS AND DEPTHS VARY. SEE BLUE STAKE AND POT-HOLE INFORMATION TO VERIFY

2. DATE PALM 'MEDJOOL" W/ BOOTS INTACT

CONTRACTOR SHALL ENSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

PALM PLANTING DETAIL



10/23/2019

11/15/2019

APPROVE

AMENDED PLANTING BACKFILL MIX

MIX SHALL CONSIST OF: 1/2 PART 'NATIVE' SITE SOIL (NO CALICHE IN BACKFILL) & 1/2 PART MULCH (*HUMUS) *NATURAL FERTILE, FRIABLE SOIL THOROUGHLY MIXED PRIOR TO BACKFILLING PIT. REMOVE ALL INORGANIC MATERIAL GREATER THAN 1" IN SIZE. SOIL BACKFILLING SHALL BE ACCOMPLISHED IN 6" LIFTS. EACH LIFT SHALL BE WATER SETTLED WITHOUT POOLING.

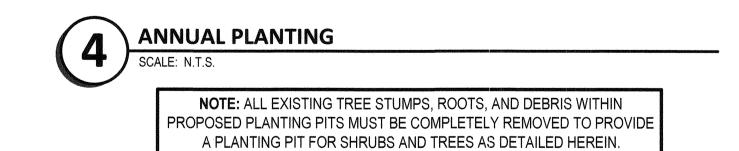
SLOW-RELEASE FERTILIZER TABLETS

FERTILIZER TABLETS SHALL BE AGRIFORM OR EQUAL (21 GRAM 20-10-5) SLOW RELEASE. TABLETS SHALL BE PLACED AT 1/2 THE DEPTH OF THE ROOTBALL AT THE FOLLOWING RATES.

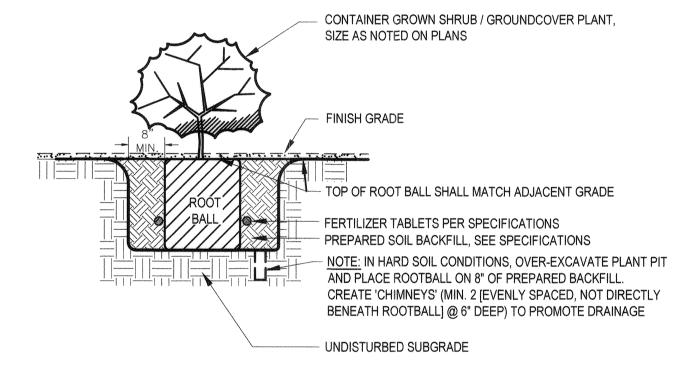
1 TABLET PER 1-GALLON CONTAINER 2 TABLETS PER 5-GALLON CONTAINER

3 TABLETS PER 15-GALLON CONTAINER 4 TABLETS PER 24" BOX

AND AT A RATE OF 1 TABLET PER EACH ADDITIONAL 6" BOX SIZE. WHEN MULTIPLE QUANTITIES OF TABLETS ARE REQUIRED, THEY SHALL BE EQUALLY SPACED AT THE SPECIFIED DEPTH.

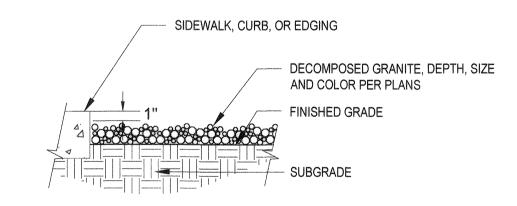


BACKFILL AND FERTILIZER NOTES



SHRUB / GROUND COVER PLANTING

NOTE: ALL EXISTING TREE STUMPS, ROOTS, AND DEBRIS WITHIN PROPOSED PLANTING PITS MUST BE COMPLETELY REMOVED TO PROVIDE A PLANTING PIT FOR SHRUBS AND TREES AS DETAILED HEREIN.



1. COMPACT SUBGRADE TO 80% AND APPLY A PREEMERGENT HERBICIDE TO THE SOIL BEFORE PLACING GRANITE AT REQUIRED DEPTH. RAKE SMOOTH, WET TO ENTIRE DEPTH, ROLL WITH A 150 LB ROLLER, THEN LIGHTLY SCARIFY SURFACE WITH A LEAF RAKE. KEEP TOP OF GRANITE 1" BELOW ADJACENT WALKS. CURBS. 2. APPLY SECOND APPLICATION OF PREEMERGENT HERBICIDE AFTER INSTALLATION OF GRANITE

DECOMPOSED GRANITE INSTALLATION



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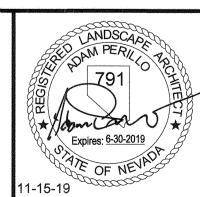


1-702-227-2929

SAFETY ALERT

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE LANDSCAPE DETAILS CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



6671 Las Vegas Boulev Las Vegas, Nevada 89	ard South, Suite 320 119 Tel. No.(702) 862–3600	
Kim	ley»Horn	FIE
DATE:	11-15-2019	
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ISSUED FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION

REVISED PER REVISION NO. 2

IRRIGATION NOTES

- 1. CONTRACTOR SHALL REVIEW AND FIELD VERIFY LAYOUT OF ALL IRRIGATION SYSTEM COMPONENTS AND HAVE THE LAYOUT APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO STARTING INSTALLATION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY COMPONENTS AND COMPLETING THE INSTALLATION OF A FULLY AUTOMATIC AND OPERATIVE IRRIGATION SYSTEM, AS INDICATED ON THE PLANS, PRIOR TO THE START OF ANY PLANTING OPERATIONS.
- 3. SYSTEM HAS BEEN DESIGNED WITH A STATIC PRESSURE OF 65 TO 70 PSI. CONTRACTOR SHALL FIELD VERIFY PRESSURE PRIOR TO ORDERING MATERIAL OR STARTING IRRIGATION AND NOTIFY CONSULTANT OF ANY DIFFERENCE FROM PRESSURE INDICATED. IF CONTRACTOR FAILS TO NOTIFY CONSULTANT HE ASSUMES FULL RESPONSIBILITY FOR ANY SYSTEM ALTERATIONS.
- 4. ALL PIPING AND WIRING PLACED UNDER PAVED AREAS SHALL BE INSTALLED IN SEPARATE SLEEVES WHERE SHOWN ON PLANS. SLEEVE INSTALLATIONS SHALL BE COMPLETED PRIOR TO THE START OF ANY PAVING OPERATIONS (SEE ENGINEERING PAVING PLANS). WHERE NECESSARY, VERIFY EXISTING SLEEVE LOCATIONS AND DETERMINE CONDITION AND COMPATIBILITY WITH DESIGN PRIOR TO THE START OF ANY OTHER WORK, SLEEVING BENEATH EXISTING PAVEMENTS SHALL BE INSTALLED BY BORING UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.
- 5. THE IRRIGATION SYSTEM LAYOUT SHOWN ON THE DRAWINGS IS GENERALLY SCHEMATIC. ALL VALVE, COMPONENTS, PIPING, FITTINGS AND EQUIPMENT SHALL BE LOCATED WITHIN R.O.W. LANDSCAPE AREAS UNLESS SLEEVED OR OTHERWISE SHOWN OR APPROVED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING NEW IRRIGATION SYSTEM COMPONENTS AND CONNECTION WHICH WILL PROVIDE FULL AUTOMATIC OPERATION AND 100% COMPLETE COVERAGE TO ALL PLANTS AND TURF AREAS AS INDICATED ON THE PLANS WITHOUT RUN-OFF OR OVERTHROW ONTO ANY PAVED SURFACES.
- 6. REFER TO SPECIAL PROVISION AND DETAILS FOR INSTALLATION PROCEDURES.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PIPING NECESSARY TO PROVIDE ALL SUB-LATERAL PIPING, FITTINGS, AND RISERS TO EACH PLANT EMITTER AS SPECIFIED AND AS DETAILED, WHETHER OR NOT PIPING IS SHOWN ON THE PLANS.

IRRIGATION LEGEND

SYMBOL	MANUFACTURER / MODEL / DESCRIPTION	QTY
	Drip Zone Flush End Cap (see details)	5
EMITTERS	BOWSMITH ML200 Series Multi-port emitter with 1/2" FPT inlet. (1) per five shrubs (5 outlets open) / (1) per tree (6 outlets open); Provide 1/4" Distribution tubing to each plant as detailed. Palms: Rain Bird RWS-B-C-1402 (2 per tree, see details)	103
	GROUND COVER: Netafim Drip Techline CV	169 SF

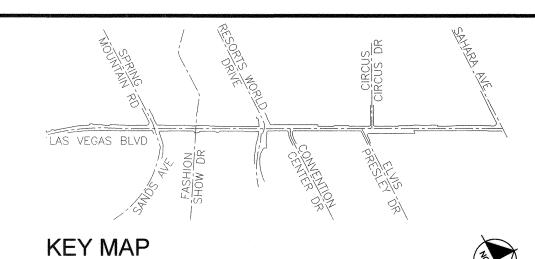
SYMBOL	SIZE AND DESCRIPTION	
X	SCH 40 SLEEVE / Spears or equal Sleeve shall be min. 2x size of pipe within. One pipe per sleeve. Install independent 2" sleeve for wiring	70 LF

SYMBOL	SIZE AND DESCRIPTION	
	SCH 40 PVC Palm/ Tree Lateral Pipe (Size per table below)	946 LF
enemenianum sintempan S maranesianum	SCH 40 PVC Shrub Lateral Pipe (Size per table below)	946 LF
отполнительный С полициональный	SCH 40 PVC Ground Cover Lateral Pipe (Size per table below)	400 LF

FLOW (GPM) PIPE SIZE 6.1-10

"X" denotes quantity

1. IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY. 2. ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.



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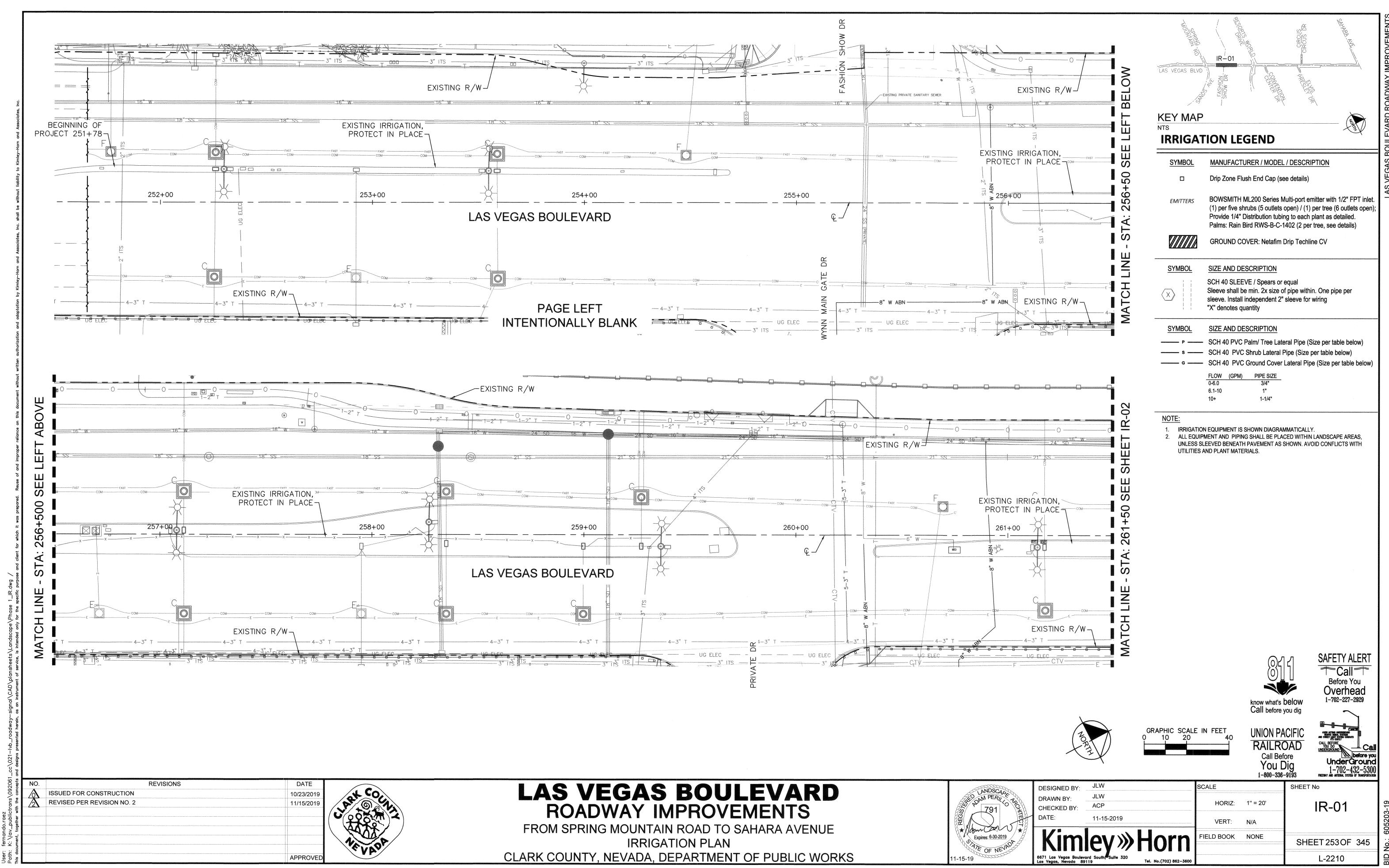
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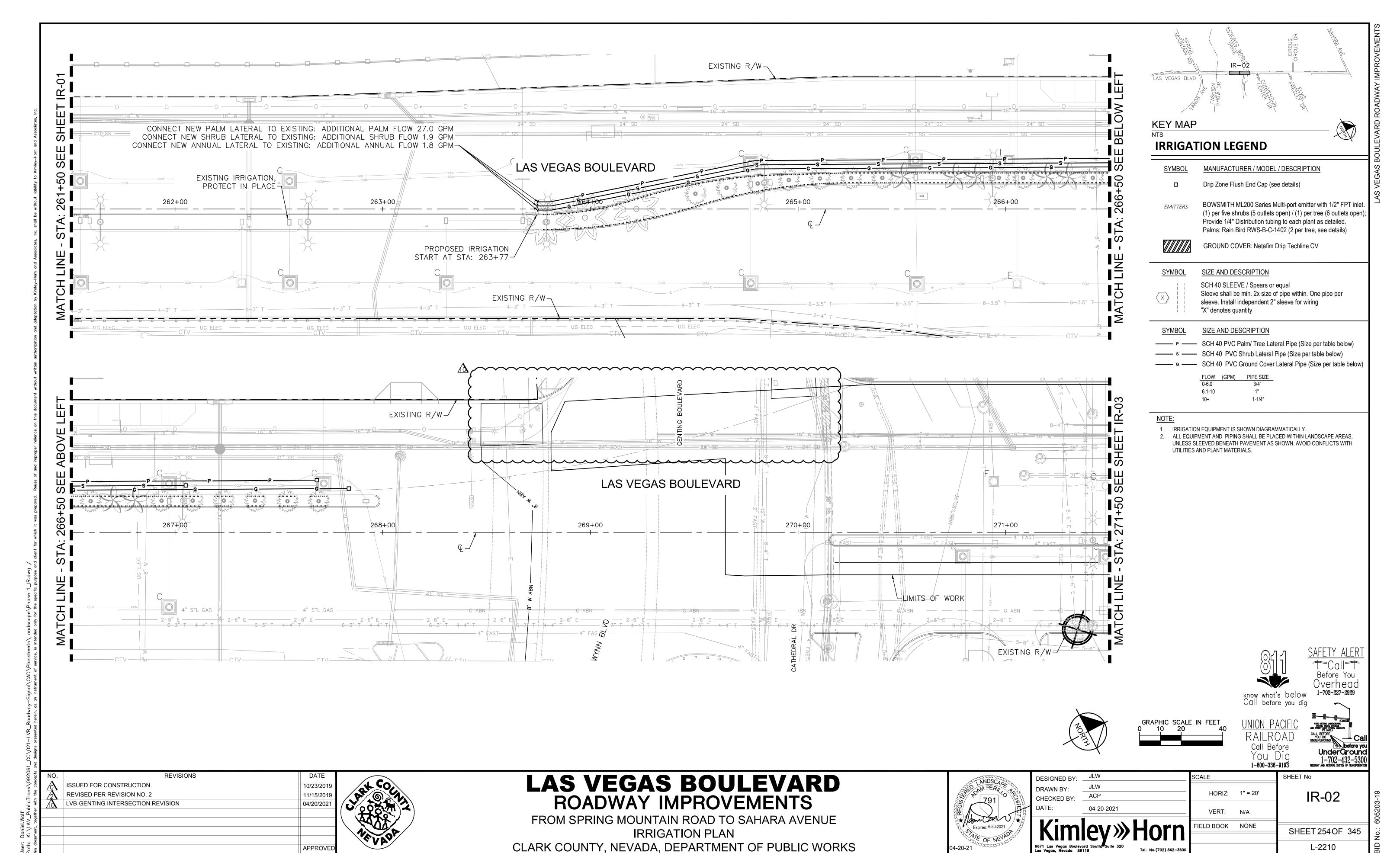
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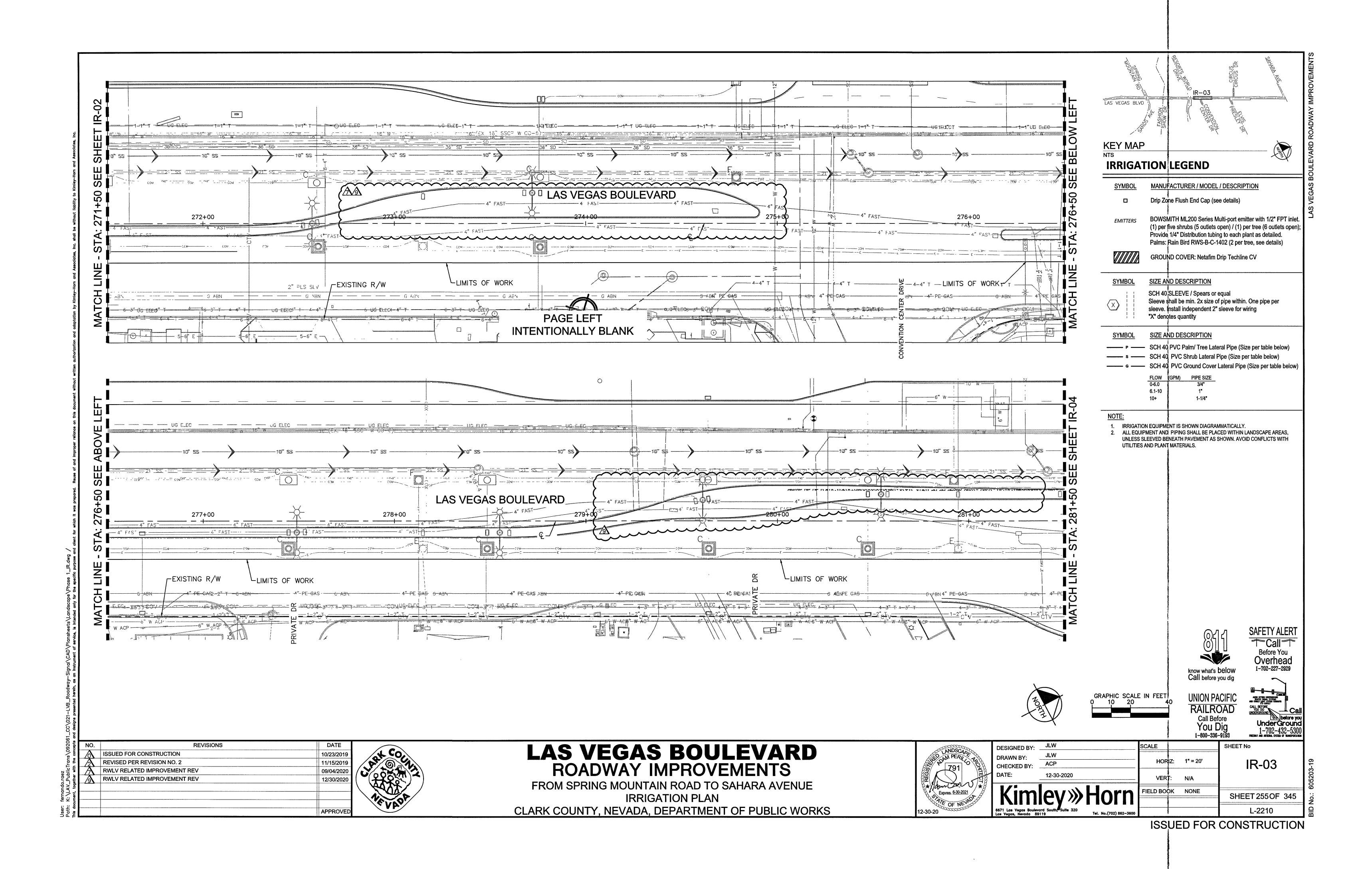


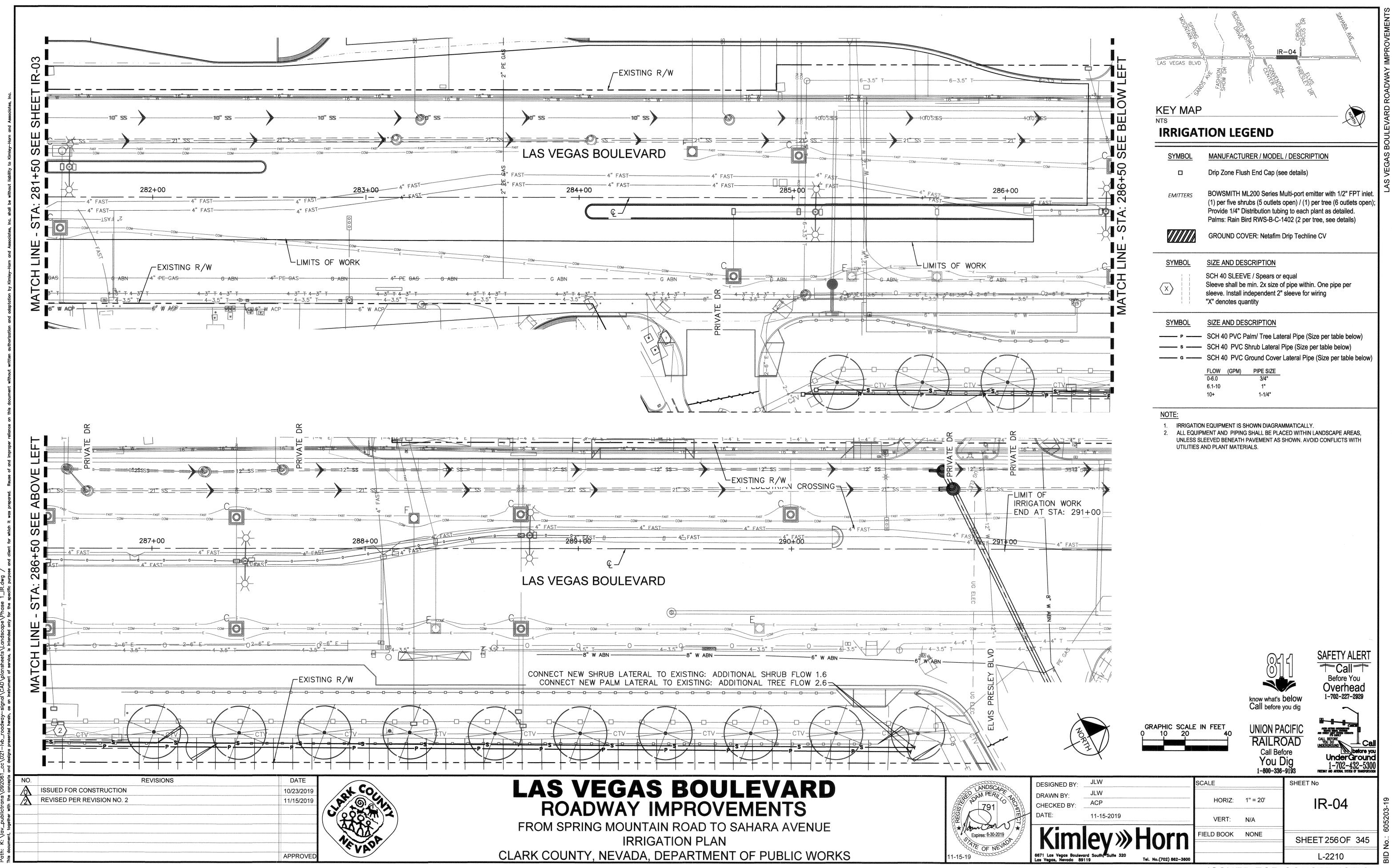
LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

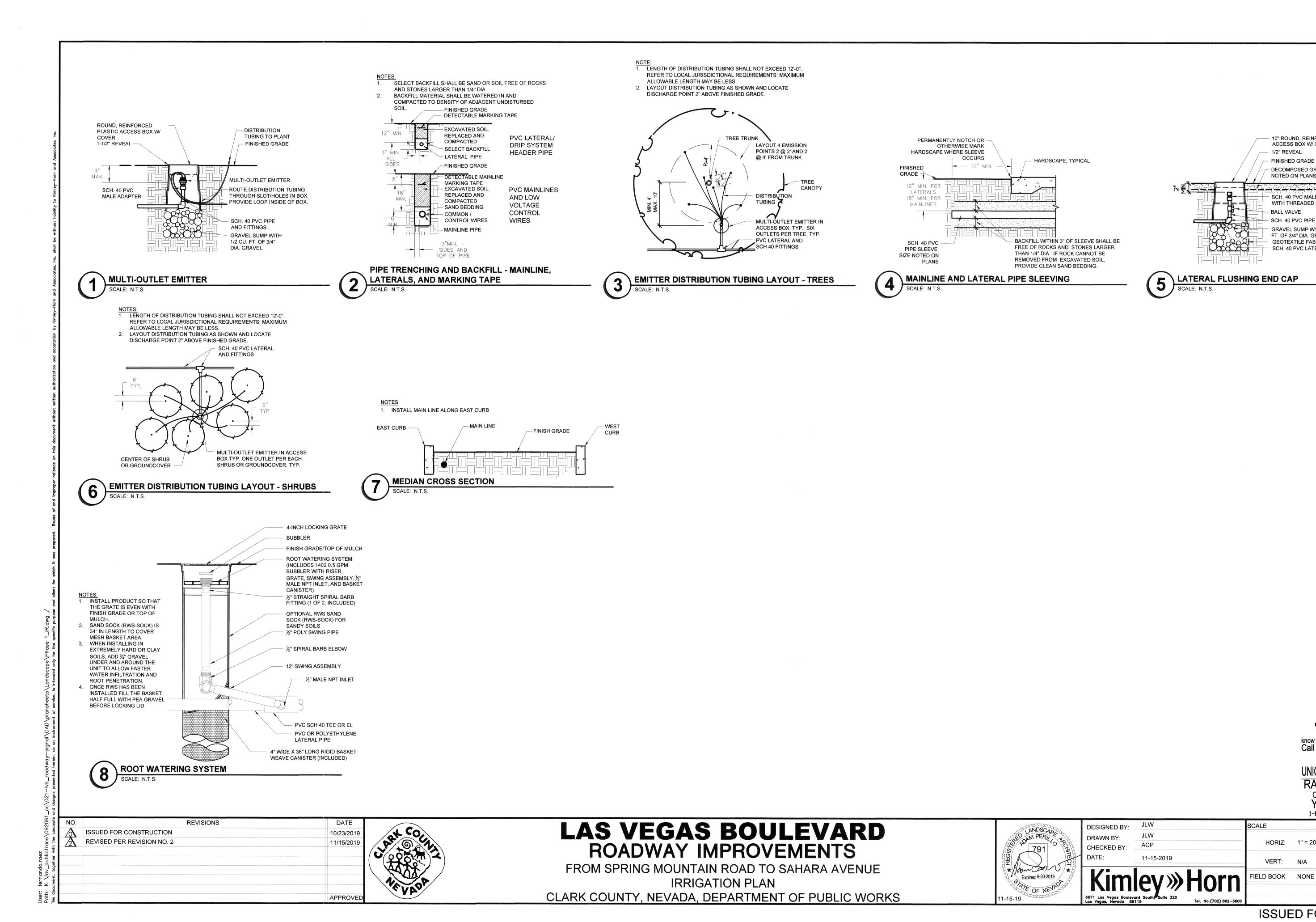
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE **IRRIGATION NOTES** CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS











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10" ROUND, REINFORCED PLASTIC

DECOMPOSED GRANITE WHERE

SCH. 40 PVC MALE ADAPTER

- SCH. 40 PVC PIPE AND FITTINGS

WITH THREADED CAP

GRAVEL SUMP W/ 1/2 CU.

SCH. 40 PVC LATERAL LINE

FT. OF 3/4" DIA. GRAVEL

GEOTEXTILE FABRIC

ACCESS BOX W/ COVER

1/2" REVEAL

BALL VALVE

FINISHED GRADE

NOTED ON PLANS

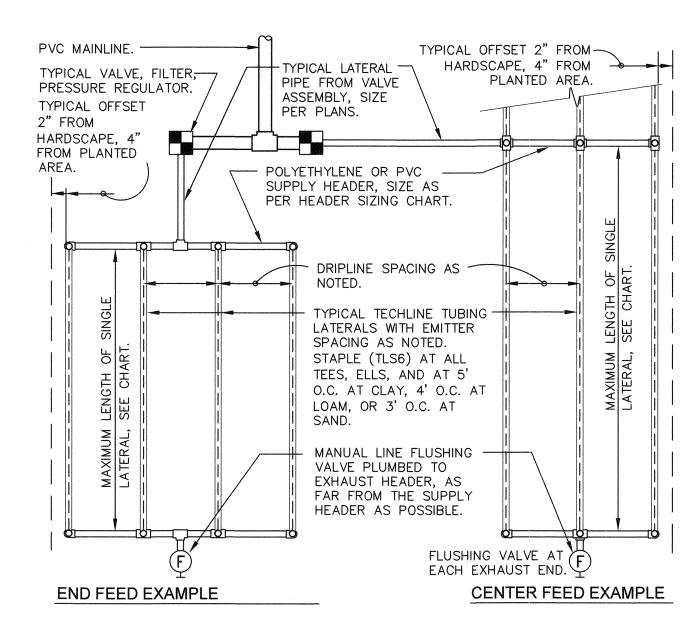
1-702-432-5300SHEET 257 OF 345

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UnderGround



TECHLINE CV	LINE CV MAXIMUM LENGTH OF SINGLE LATERAL (FEET)											
DRIPPER SPACING			12"			18"				24"		
DRIPPER FLOW RATE (GPH)			0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9
- H		15	127	109	86	65	177	151	120	91	152	116
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		25	427	325	256	194	604	459	361	274	458	348
	- 1	35	539	409	322	244	763	579	456	346	580	440
	(PSI)	45	618	469	369	280	877	664	523	397	666	506

DRIPPER | 0.26 GPH DRIPPER | 0.4 GPH DRIPPER | 0.6 GPH DRIPPER | 0.9 GPH DRIPPER

0.67

0.44

N/A

GPM

1.02

0.68

20 TO 30 GPM: 1 1/2" HEADER.

61.00

41.00

31.00 0.51

92.00 1.53

61.00 1.02

46.00 0.77

AL (FEET)					TECHLINE CV GENERAL GUIDELINES FOR WATERING TIME							
	18"			24"			TURF			SHRUB & GROUND COVER		
4	0.6	0.9	0.6	0.9		CLAY	LOAM	SANDY	CLAY	LOAM	SANDY	_
		-	<u> </u>		DIPPER FLOW (GPH)	0.26	0.4	0.6	0.26	0.4	0.6	
51	120	91	152	116	DRIPPER INTERVAL	18"	12"	12"	18"	18"	12"	-
59	361	274	458	348	LATERAL (ROW) SPACING	18"-22"	18"-22"	12"-16"	18"-24"	18"-24"	16"-20"	
79	456	346	580	440		10 0 15	47 75	00 70	40 04	00 01	70 50	-
64	523	397	666	506	APPLICATION RATE (IN/HR)	.19-0.15	.4335	.9672	.1921	.2921	.7258	_
	71 020 007 000 000				TIME TO APPLY 1/4"	79-100	35-43	16-21	79-107	52-71	21-26	

- WATER SOURCE:

DRIP VALVE OR

LATERAL FROM

SUPPLY PIPE.

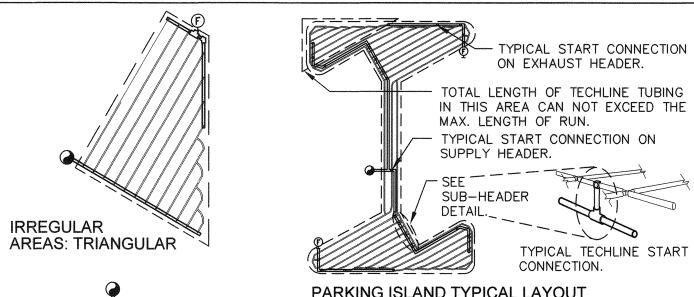
TYPICAL TECHLINE

DRIPPER LINE

VALVE.

TUBING.

TYPICAL



SEE SUB-HEADER TYPICAL TECHLINE START CONNECTION. PARKING ISLAND TYPICAL LAYOUT — MANUAL LINE FLUSHING VALVE. TOP OF SLOPE. TECHLINE CV LATERAL TUBING.
LATERALS PARALLEL TO THE PVC SUPPLY -7 HEADER. CONTOURS OF THE SLOPE. PVC EXHAUST HEADER. SLOPE. 54" MAXIMUM ELEV. CHANGE WITHOUT CHECK TOP 2/3 OF VALVE. IF GREATER, INSTALL INLINE CHECK SLOPE: CONVENTIONAL VALVES EVERY 54" IN SPACING. ELEV. CHANGE. BOTTOM 1/3 OF SLOPE: CONVENTIONAL SPACING

SUPPLY AND EXHAUST HEADER SIZING CHART (UNLESS NOTED ON PLANS)

26.67

N/A

10 TO 20 GPM: 1 1/4" HEADER.

TECHLINE FLOW PER 100 FEET

GPH GPM

26.40 0.44

17.58 0.29

N/A

SPACING

24"

STEP 1: ADD LENGTH OF ALL TECHLINE LATERAL TUBING CONNECTED TO THE HEADER. STEP 2: DIVIDE THIS TOTAL LENGTH BY 100 TO INDICATE THE LENGHT IN UNITS OF 100. STEP 3: LOCATE THE GPM THAT APPLIES FOR EACH UNIT OF 100 FEET LENGTH ON THE CHART "TECHLINE FLOW PER 100 FEET". MULTIPLY THIS GPM NUMBER TIMES THE UNITS OF 100 FEET FOR THE TOTAL GPM AT THIS HEADER. SIZE THE HEADER WITH THE FOLLOWING: 1 TO 6 GPM: 3/4" HEADER. 6 TO 10 GPM: 1" HEADER.

- TYPICAL PVC OR POLY SUPPLY OR EXHAUST (F) - HEARDER: LINE FLUSHING VALVE PLUMBED TO PVC OR POLY HEADER.

IRREGULAR ODD CURVES

ISLAND

LAYOUT

HEADER / ∠TOTAL THE COMBINED LENGTH OF THESE LATERALS AND COMPARE TO THE CHART FOR MAX. LENGTH OF SINGLE BRANCHING OUT LATERALS

SUPPLY TITLE

HEADER

EXHAUST

← CHECK LONGEST LATERAL AGAINST CHART FOR MAX. LENGTH OF SINGLE LATERAL JOINING LATERALS

PLUS 25%. REMOTE CONTROL SLOPE FEED LAYOUT VALVE ASSEMBLY.

328413.56-04

TYPICAL NETAFIM TECHLINE CV REQUIREMENTS

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ISSUED FOR CONSTRUCTION 10/23/2019 REVISED PER REVISION NO. 2 11/15/2019 APPROVE

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE **IRRIGATION PLAN** CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



	DESIGNED BY:	JLW	SCALE
and the following statements	DRAWN BY:	JLW ACP	но
1	CHECKED BY:	11-15-2019	VE
CONTRACTOR CONTRACTOR	Vim	OW Horn	FIELD B
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	6671 Las Vegas Bouleva Las Vegas, Nevada 891	rd South, Suite 320 19 Tel. No.(702) 862-3600	

GENERAL LIGHTING NOTES

- 1. THIS PLAN IS INTENDED FOR LANDSCAPE LIGHTING PURPOSES ONLY. INSTALLATION CONTRACTOR SHALL BE CERTIFIED FOR ELECTRICAL INSTALLATIONS. ALL LIGHTING FIXTURES AND TRANSFORMERS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE (CURRENT EDITION) AND ALL LOCAL BUILDING SAFETY CODES AND ORDINANCES.
- 2. FIXTURES ARE SHOWN IN APPROXIMATE LOCATION. THE CONTRACTOR SHALL FIELD VERIFY THE ACTUAL PLACEMENT OF EACH FIXTURE UPON COMPLETION OF LANDSCAPE INSTALLATION.
- 3. ALL PATHLIGHTS TO BE INSTALLED AT A MINIMUM OF 18" FROM ANY SIDEWALK OR STRUCTURE.
- 4. ALL HUBS SHALL BE LABELED AND INSTALLED PRIMARILY IN PLANTER AREAS 2" ABOVE FINISHED GRADE: OR IN A READILY ACCESSIBLE AREA THAT DOES NOT OBSTRUCT PATHWAYS, DRAINAGE SWALES OR COMMON AREAS.
- 5. ALL "HOME RUN" WIRE SHALL BE LABELED AND INSTALLED AT A MINIMUM DEPTH OF 6". ALL FIXTURE LEAD WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 6".
- 6. IN ORDER TO MINIMIZE FUTURE DISTURBANCE, ALL WIRE RUNS SHALL BE INSTALLED PARALLEL AND ADJACENT TO HARD SURFACES SUCH AS SIDEWALKS, DRIVEWAYS AND
- 7. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SLEEVES UNDER THE HARDSCAPE SURFACES, USING A MINIMUM 1-INCH PVC PIPE.
- 8. CONTRACTOR SHALL NOT CUT THE WIRE LEADS FROM THE FIXTURES. LEAVE EXCESS WIRE AT THE FIXTURE END AND A MINIMUM OF 2' AT EACH HUB.
- 9. ALL UNDERGROUND SPLICES SHALL BE INSTALLED IN APPROVED IN-GROUND HUBS WITH WATER-TIGHT CONNECTIONS.
- 10. ALL EXTERIOR 120-VOLT ELECTRICAL OUTLETS SHALL BE GFI PROTECTED AS PER NATIONAL ELECTRICAL CODE.
- 11. ALL TRANSFORMERS PLUGGED INTO AN OUTDOOR RECEPTACLE SHALL HAVE AN "IN USE" COVER. CONTRACTOR SHALL INSTALL TAYMAC TYPE COVERS AT ALL OUTLETS.
- 12. ALL PLUG-IN TRANSFORMERS SHALL HAVE A "DRIP LOOP" IN THE POWER CORD.
- 13. ALL EXPOSED CONDUITS SHALL BE PAINTED TO MATCH SURROUNDINGS.
- 14. ALL WIRE SHALL CONFORM TO ASTM B-49 AND B-115 STANDARDS: 99% PURE PVC PLASTIC MIXED WITH THE LATEST IN UV INHIBITORS, 99.5% PURE COPPER.
- 15. ALL EXPOSED WIRES SHALL BE PROTECTED AND PAINTED.
- 16. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE FIXTURES AT NIGHT TO HELP ELIMINATE GLARE AND TO ENSURE OPTIMUM LIGHTING EFFECT.
- 17. THE GLARE CONTROL KIT SHALL CONSIST OF A ROTATIONAL SHROUD, FROSTED, LINEAR AND SPREAD LENS AND A HEX LOUVER TO MINIMIZE GLARE UP TO A 45
- 18. A FROSTED LENS SHALL BE USED IN ANY DOWN LIGHT THAT IS PLACED UNDER 12'

LANDSCAPE LIGHTING LEGEND

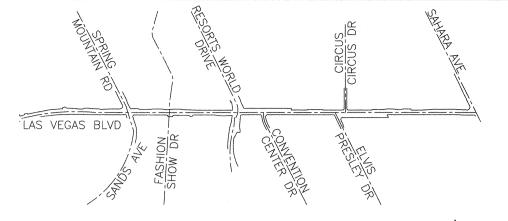
DESCRIPTION <u>SYMBOL</u>

- LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD
- STANDARD NO. 3 1/2 PULL BOX
- 3/4" ELECTRICAL UNDERGROUND CONDUIT

2" ELECTRICAL UNDERGROUND CONDUIT

CONSTRUCTION NOTES

- 1 INSTALL NEW ELECTRICAL NO. 3 12" PULL BOX.
- 2 INSTALL NEW LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD.
- 3 INSTALL 3/4" ELECTRICAL CONDUIT WITH (2) #8 AWG CONDUCTORS AND (1) #8 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
- 4 INSTALL 2-2" ELECTRICAL CONDUITS WITH (2) #6 AWG CONDUCTORS AND (1) #4 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
- 5 INSTALL 2-2" ELECTRICAL CONDUITS WITH (4) #6 AWG CONDUCTORS AND (1) #4 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
- 6 INSTALL 2-2" ELECTRICAL CONDUITS WITH (6) #6 AWG CONDUCTORS AND (1) #4 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
- 7 INSTALL 2-2" ELECTRICAL CONDUITS WITH (2) #4 AWG CONDUCTORS AND (1) #4 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
- 8 INSTALL 2-2" ELECTRICAL CONDUITS WITH (2) #6 AWG CONDUCTORS, (2) #4 AWG CONDUCTORS AND (1) #4 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
- 9 INSTALL 2-2" ELECTRICAL CONDUITS WITH (4) #6 AWG CONDUCTORS, (2) #4 AWG CONDUCTORS AND (1) #4 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
- 10 INSTALL 2-2" ELECTRICAL CONDUITS WITH (6) #6 AWG CONDUCTORS, (2) #4 AWG CONDUCTORS AND (1) #4 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.
- 11 INSTALL 2-2" SPARE ELECTRICAL CONDUITS.
- CONNECT TO EXISTING CONDUIT AND FIELD VERIFY AND MATCH EXISTING CONDUIT SIZE.
- CONNECT EXISTING CONDUCTORS TO CLOSEST EXISTING JUNCTION POINT.



KEY MAP



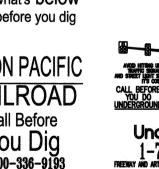
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SHEET No LL-GN HORIZ: FIELD BOOK NONE SHEET 265 OF 345

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APPROVE

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE LANDSCAPE LIGHTING NOTES CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS **DESIGNED BY:**

DRAWN BY:

CHECKED BY:

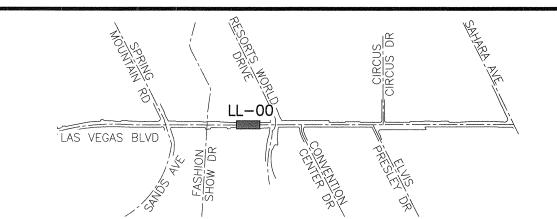
REMOVE AND SALVAGE EXISTING LANDSCAPE LIGHTS IN -ACCORDANCE WITH THE SPECIFICATIONS. INSTALL NEW LANDSCAPE UP LIGHTS IN PLACE OF EXISTING FIXTURES (1 FOR 1) IN AREAS OUTSIDE NEW MEDIAN CONSTRUCTION. REFER TO LANDSCAPE LIGHTING PLAN FOR AREAS WITHIN NEW MEDIAN CONSTRUCTION. (TYPICAL OF 553 LIGHTS BETWEEN STA. 251+65 AND STA. 320+50 OUTSIDE NEW MEDIAN CONSTRUCTION.)

10/23/2019

11/15/2019



LIGHT REPLACEMENT



KEY MAP

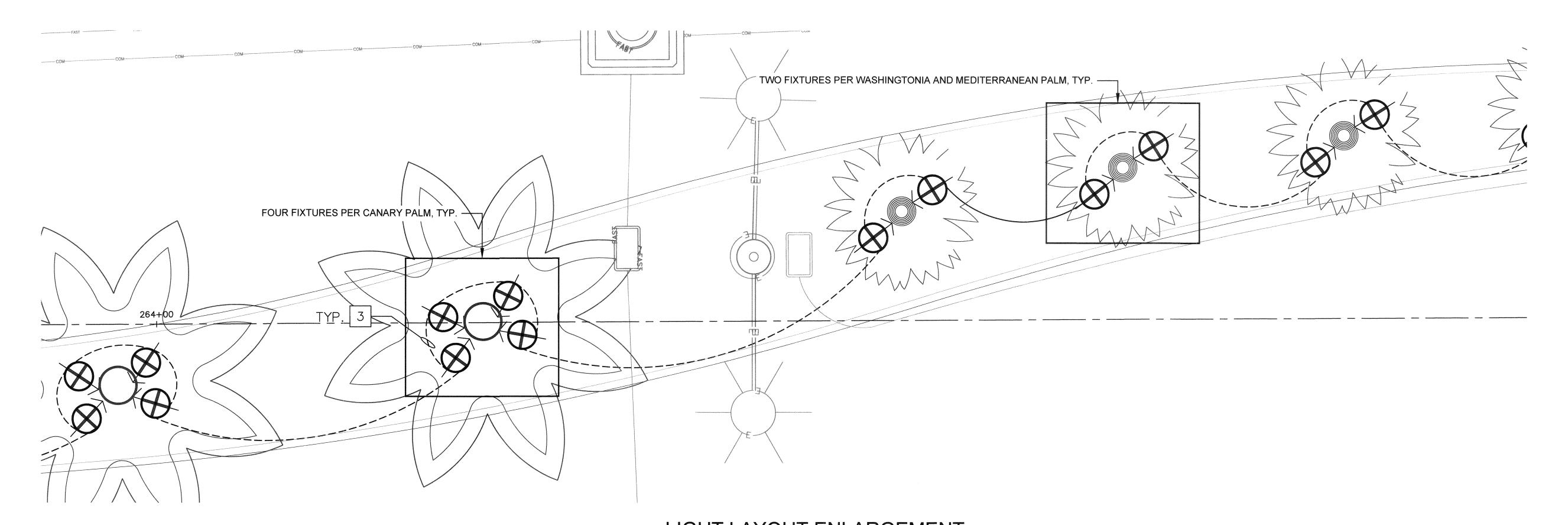
LIGHTING LEGEND

DESCRIPTION

- LED UPLIGHT WITH CLEAR FLAT LENSES AND DIRECTIONAL SHIELD
- STANDARD NO. 3 1/2 PULL BOX
- 3/4" ELECTRICAL UNDERGROUND CONDUIT
- 2" ELECTRICAL UNDERGROUND CONDUIT

CONSTRUCTION NOTES

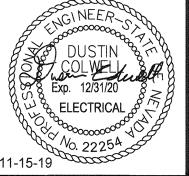
3 INSTALL 3/4" ELECTRICAL CONDUIT WITH (2) #8 AWG CONDUCTORS AND (1) #8 AWG GROUND. SEE PLANS FOR CIRCUIT INFORMATION.



LIGHT LAYOUT ENLARGEMENT

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE LANDSCAPE LIGHTING PLAN CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



	DESIGNED BY: DRAWN BY: CHECKED BY: DATE:	DJC MT DJC 11-15-2019		SC
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	6671 Las Vegas Boulevo Las Vegas. Nevada 89	ard South, Suite 320	Tel. No.(702) 862-3600	

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Horn	FIELD BO
Tel. No.(702) 862-3600	

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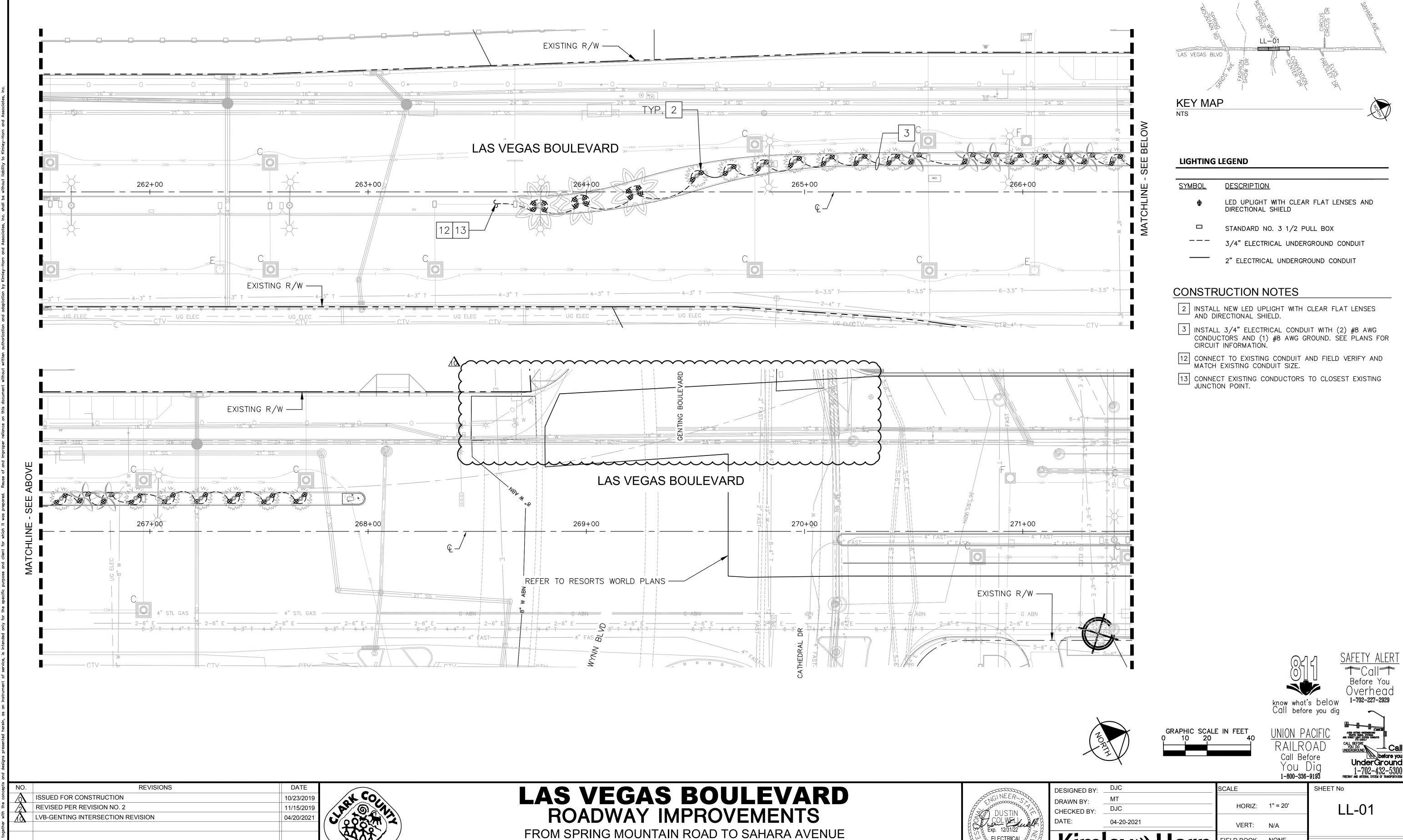
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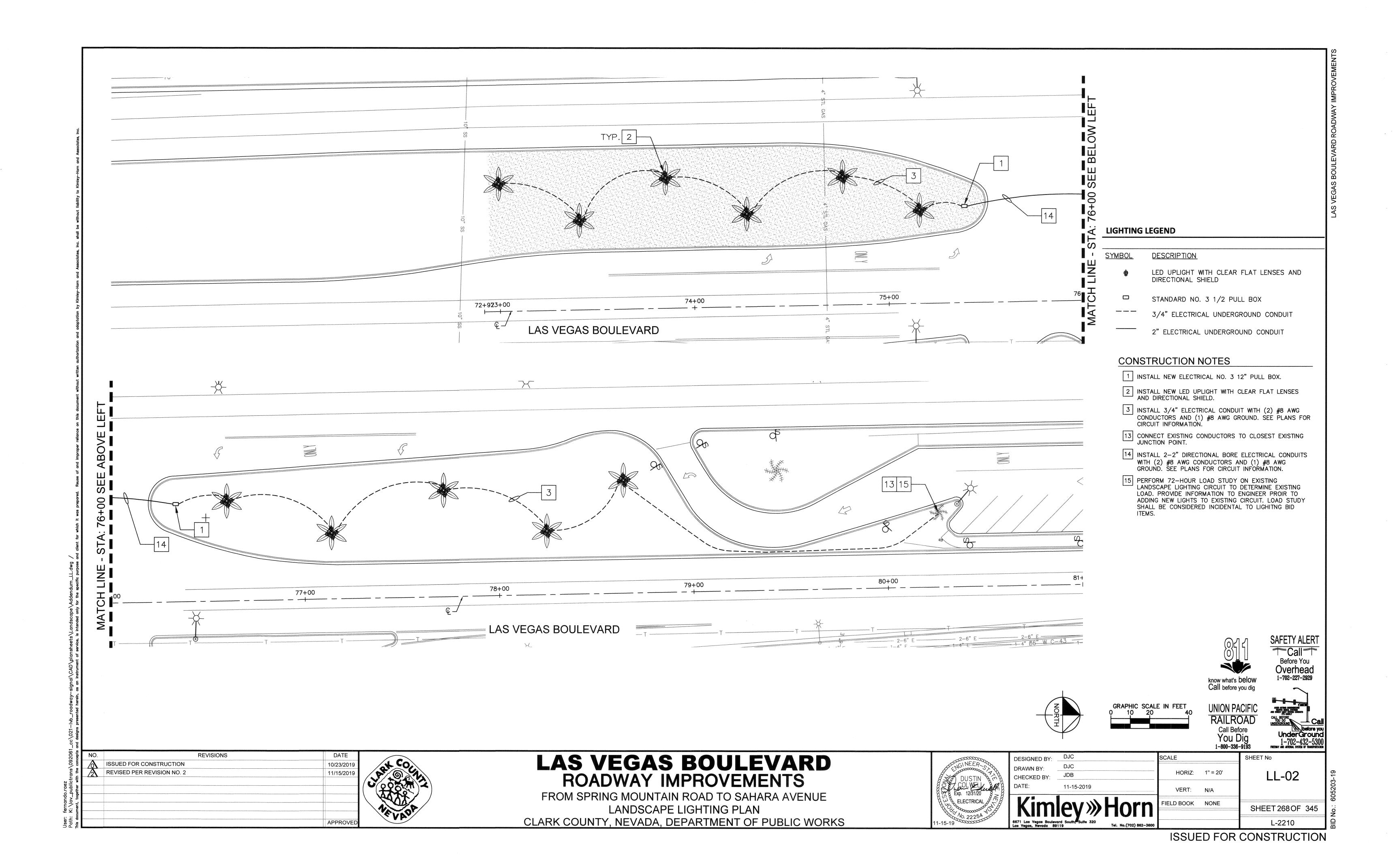
LANDSCAPE LIGHTING PLAN

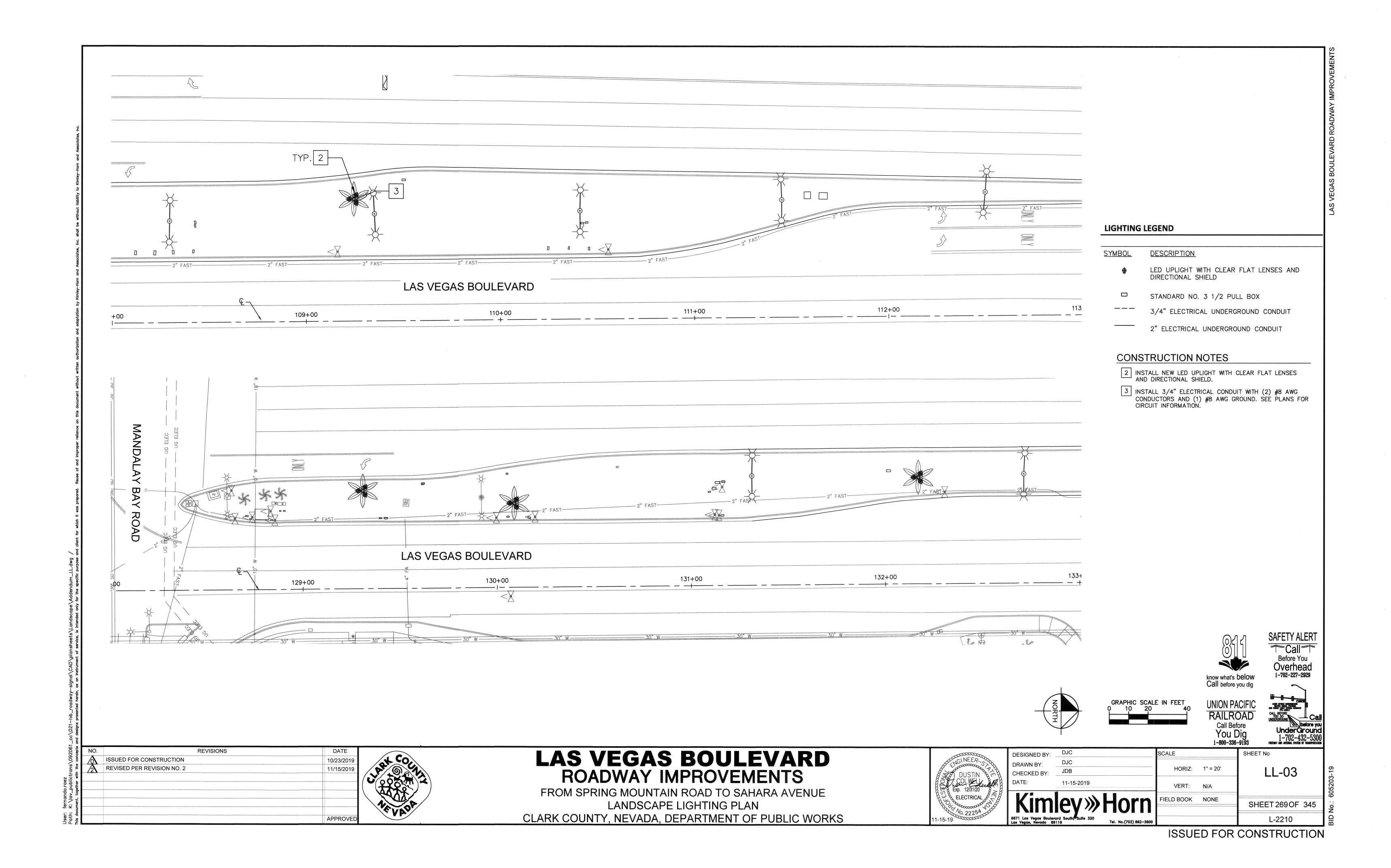
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

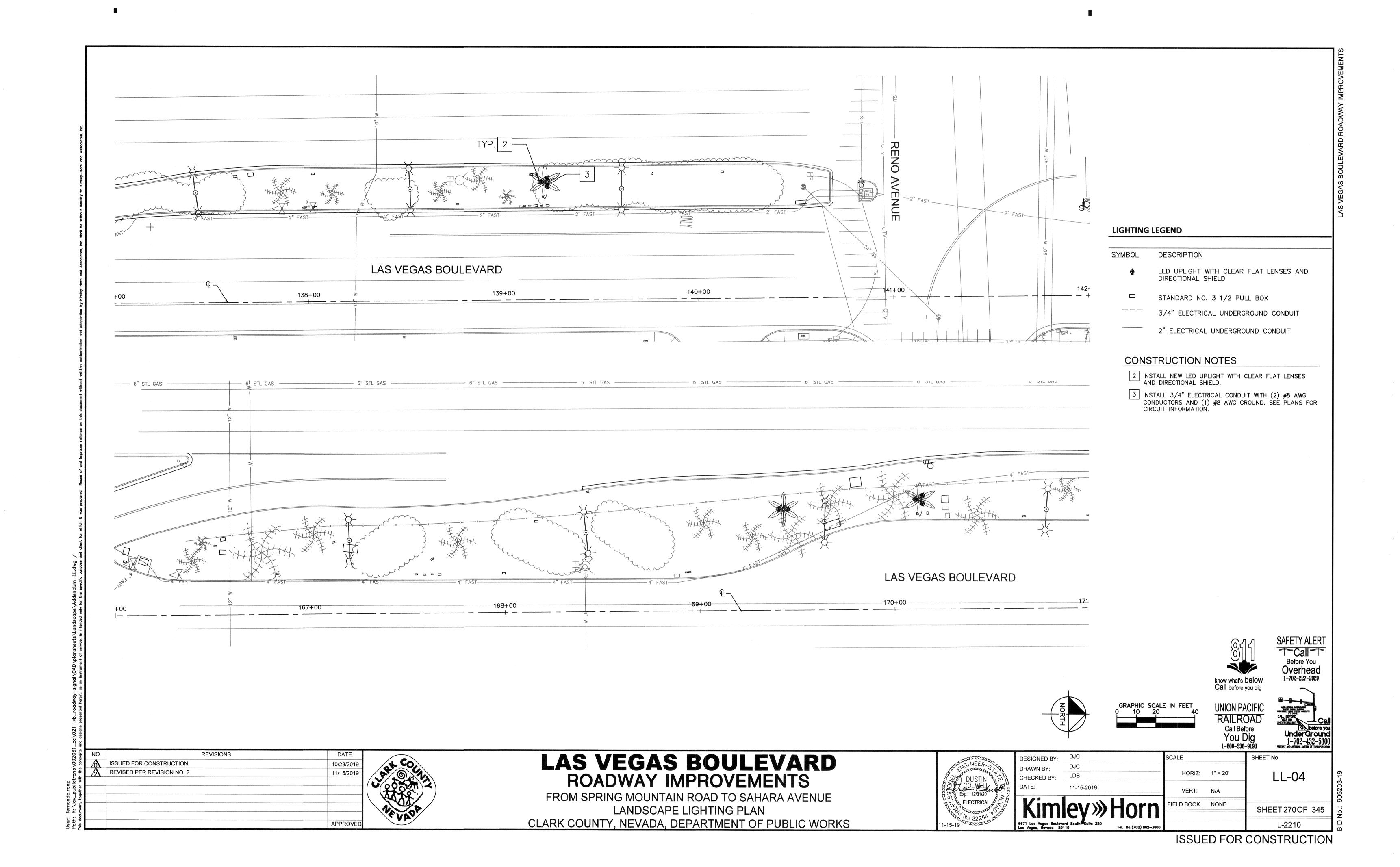
SHEET 267 OF 345

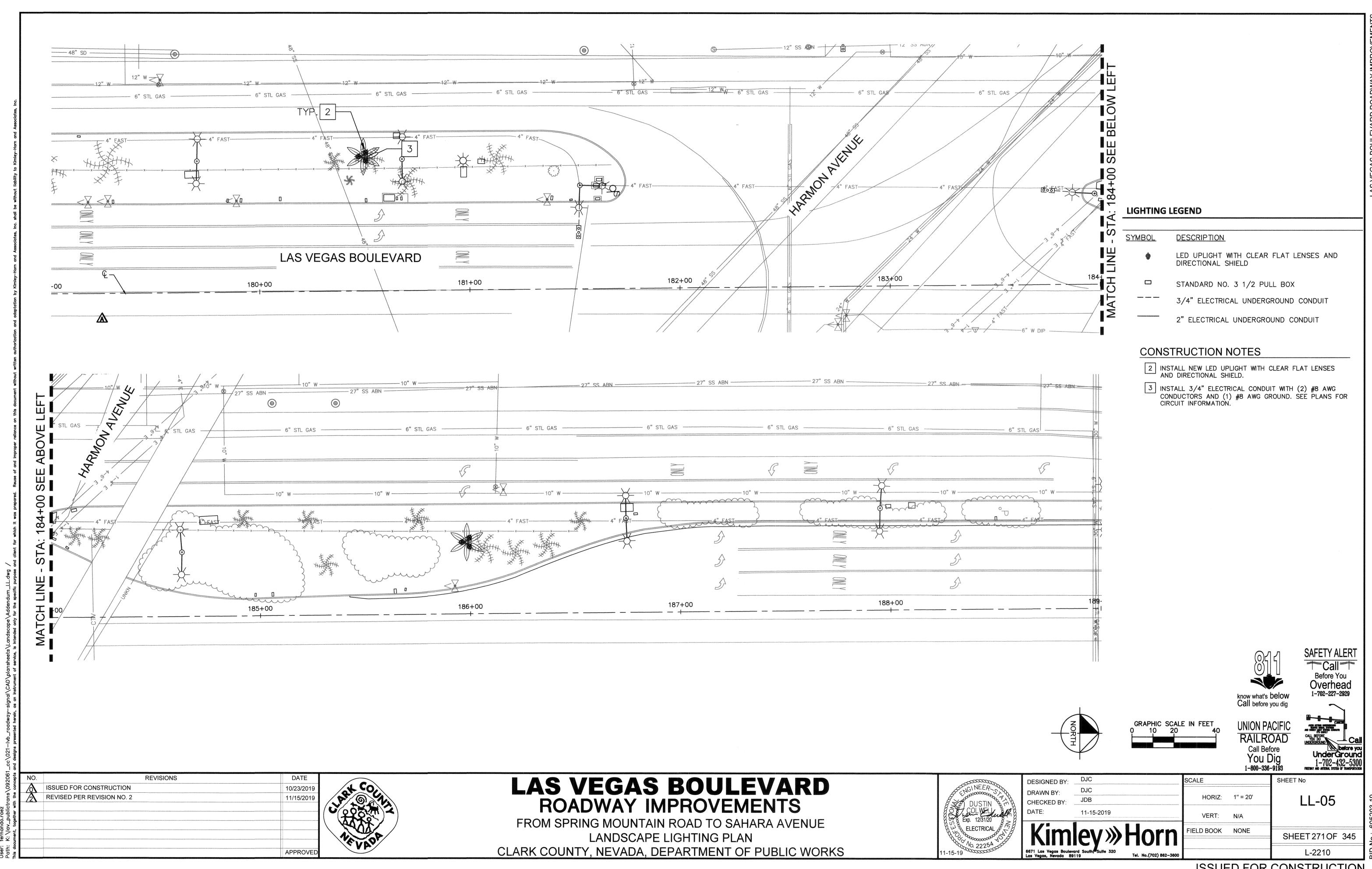
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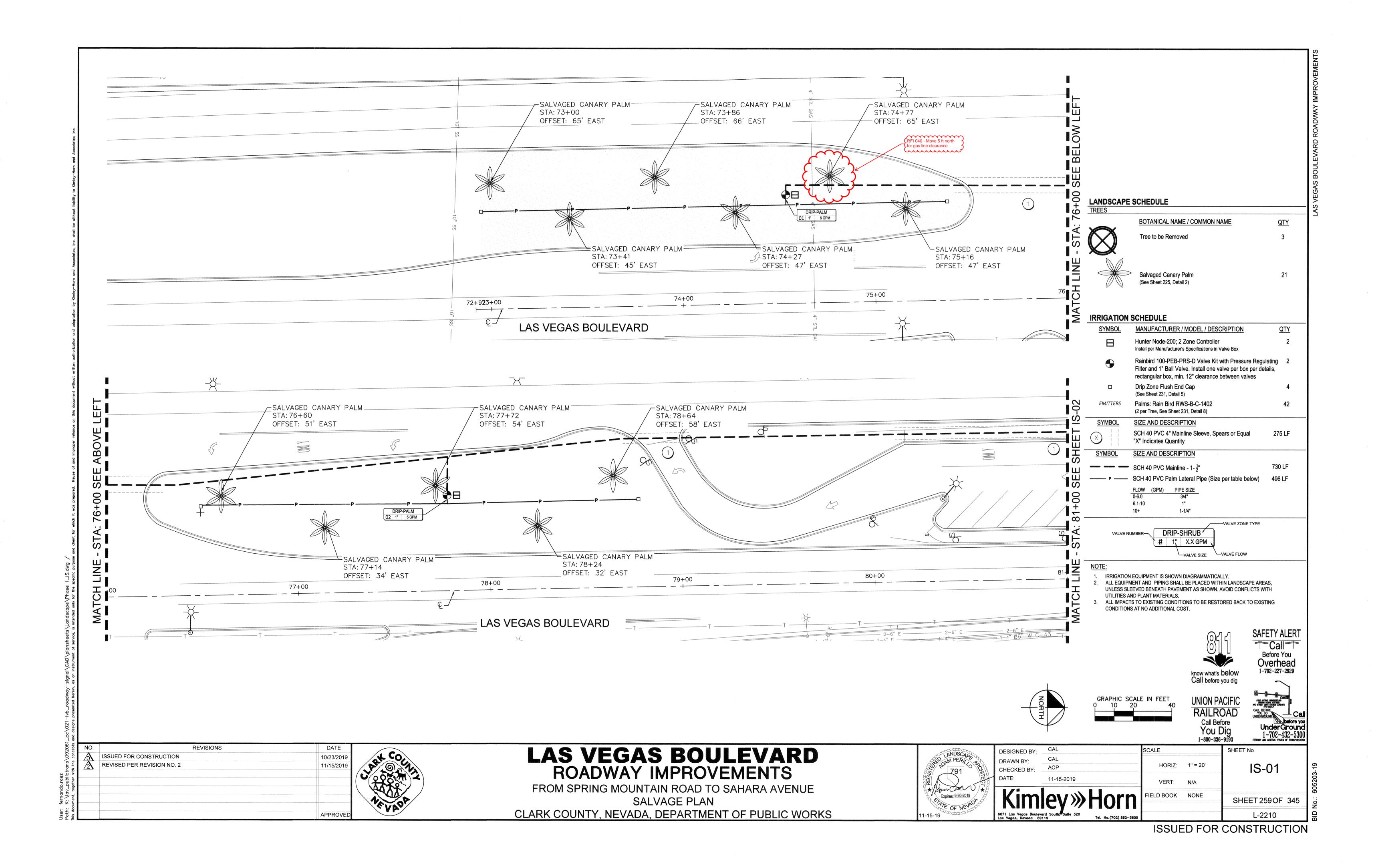
L-2210

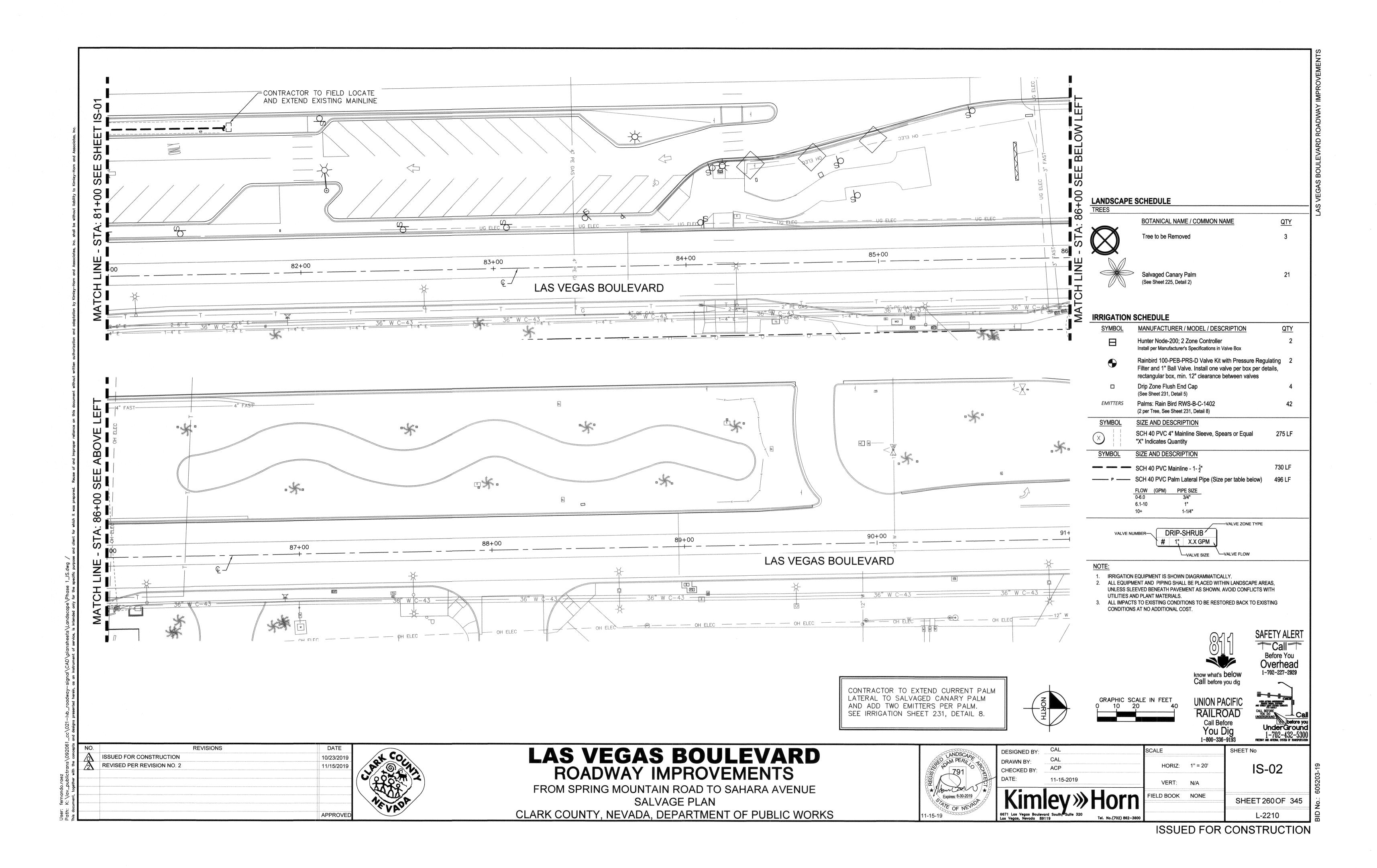


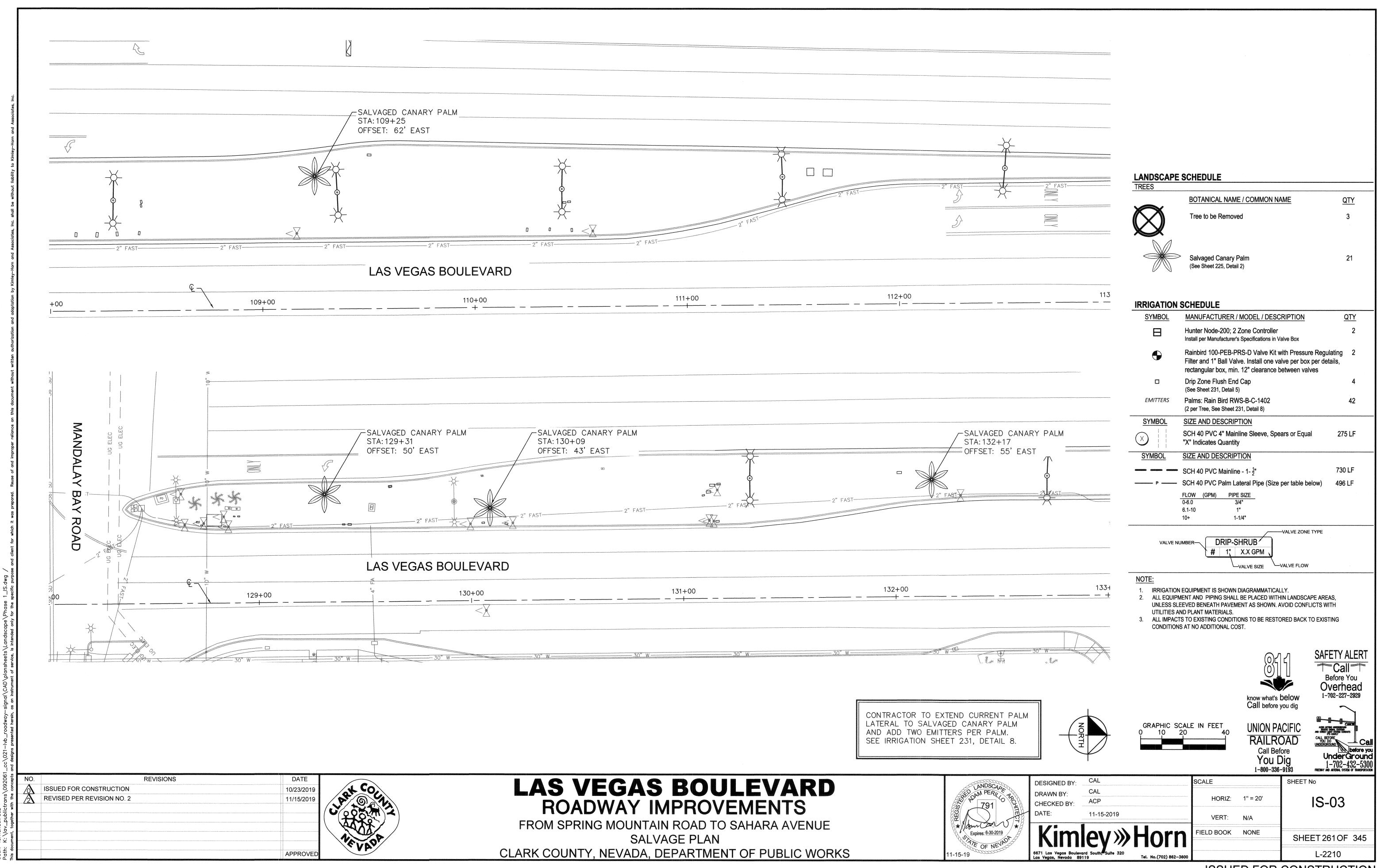


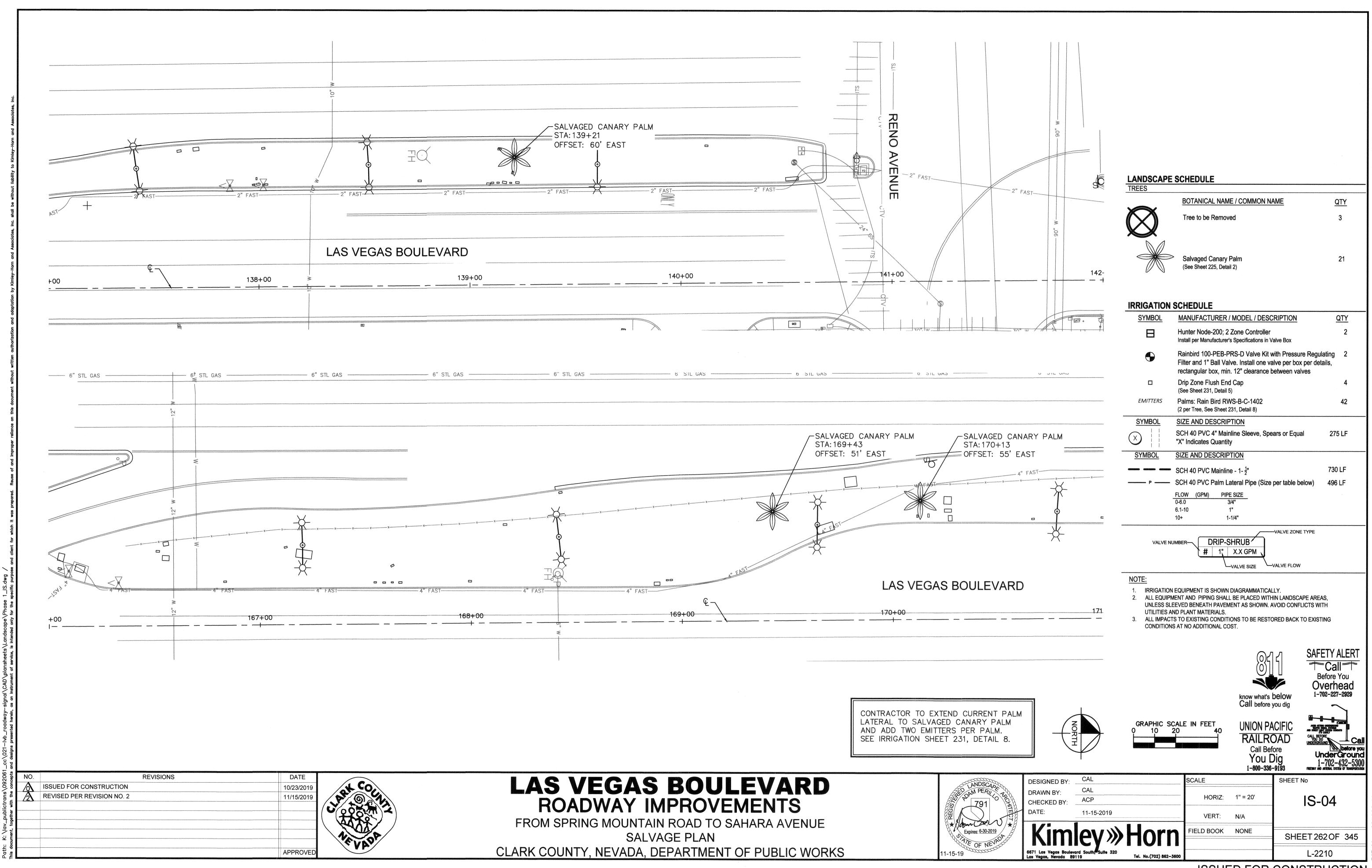




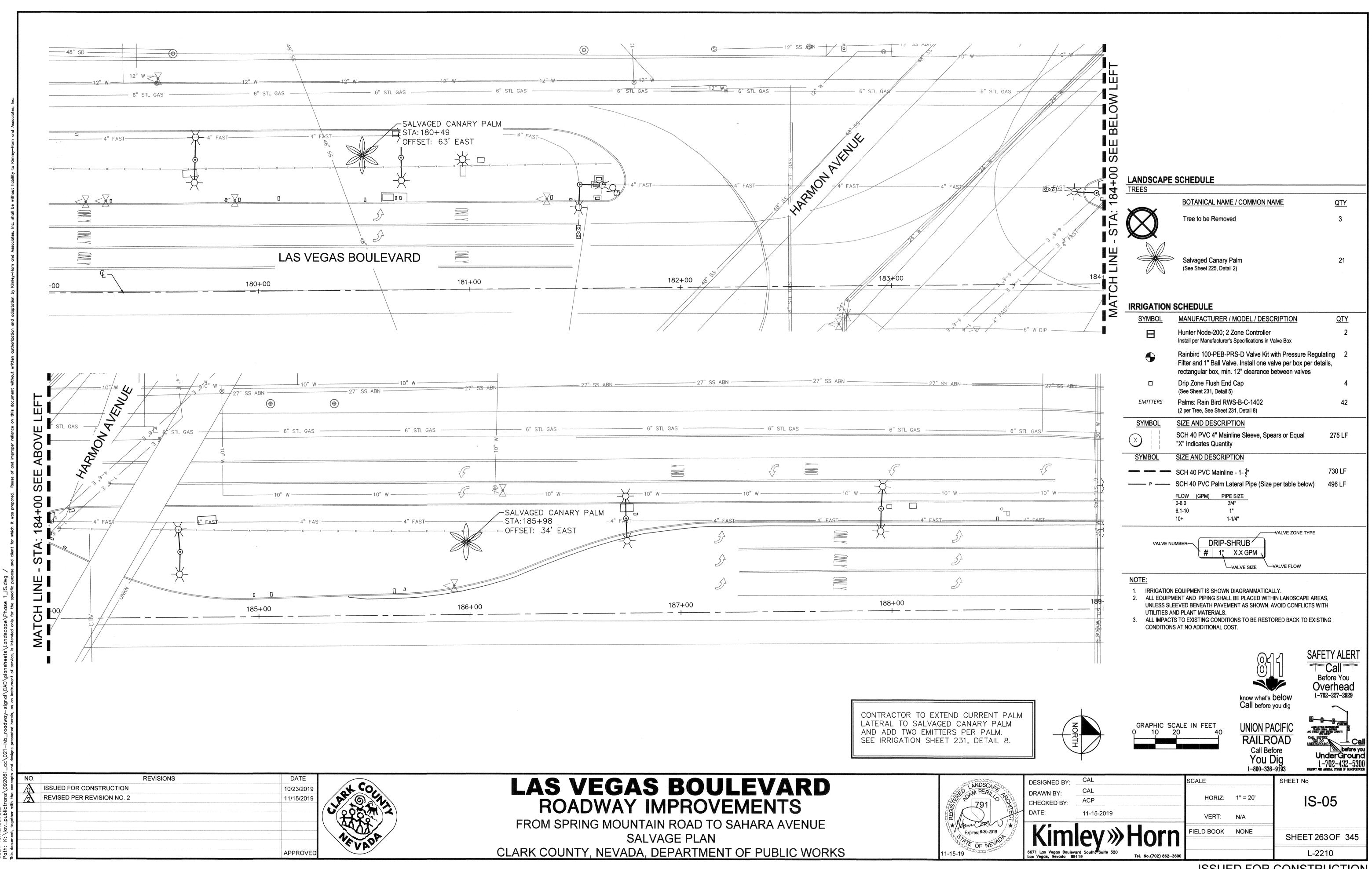


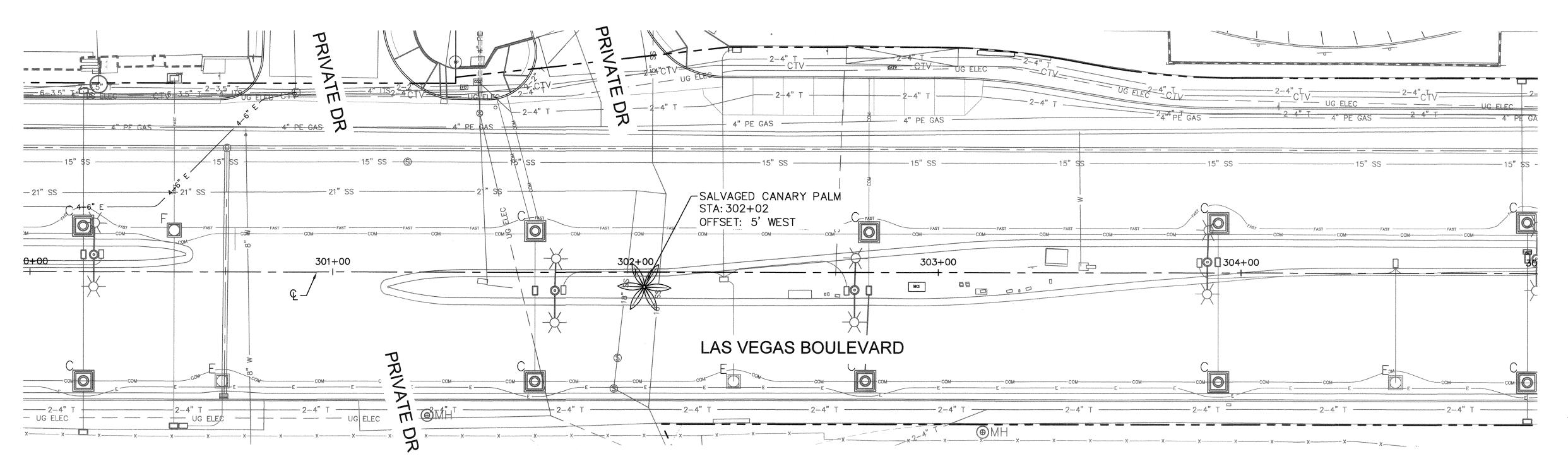






ISSUED FOR CONSTRUCTION





CONTRACTOR TO EXTEND CURRENT PALM LATERAL TO SALVAGED CANARY PALM AND ADD TWO EMITTERS PER PALM. SEE IRRIGATION SHEET 231, DETAIL 8.

LANDSCAPE SCHEDULE

BOTANICAL NAME / COMMON NAME Tree to be Removed

> 21 Salvaged Canary Palm (See Sheet 225, Detail 2)

QTY

IRRIGATION SCHEDULE

<u>QTY</u> Hunter Node-200; 2 Zone Controller Install per Manufacturer's Specifications in Valve Box Rainbird 100-PEB-PRS-D Valve Kit with Pressure Regulating 2

MANUFACTURER / MODEL / DESCRIPTION

Filter and 1" Ball Valve. Install one valve per box per details, rectangular box, min. 12" clearance between valves Drip Zone Flush End Cap

(See Sheet 231, Detail 5) EMITTERS Palms: Rain Bird RWS-B-C-1402 (2 per Tree, See Sheet 231, Detail 8)

SIZE AND DESCRIPTION SCH 40 PVC 4" Mainline Sleeve, Spears or Equal

"X" Indicates Quantity SIZE AND DESCRIPTION 730 LF SCH 40 PVC Mainline - 1- ½

——— P ——— SCH 40 PVC Palm Lateral Pipe (Size per table below) 6.1-10

> VALVE ZONE TYPE VALVE NUMBER— DRIP-SHRUB

IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY.

2. ALL EQUIPMENT AND PIPING SHALL BE PLACED WITHIN LANDSCAPE AREAS, UNLESS SLEEVED BENEATH PAVEMENT AS SHOWN. AVOID CONFLICTS WITH UTILITIES AND PLANT MATERIALS.

3. ALL IMPACTS TO EXISTING CONDITIONS TO BE RESTORED BACK TO EXISTING CONDITIONS AT NO ADDITIONAL COST.

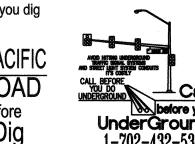


know what's **below**Call before you dig

UNION PACIFIC

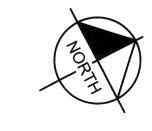
1-702-227-2929

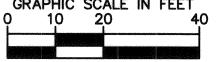
SAFETY ALERT



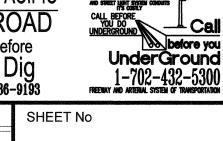
IS-06

L-2210





Call Before You Dig



10/23/2019

11/15/2019

APPROVE

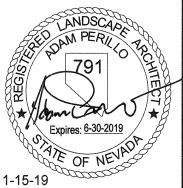
REVISIONS

ISSUED FOR CONSTRUCTION

REVISED PER REVISION NO. 2

LAS VEGAS BOULEVARD ROADWAY IMPROVEMENTS

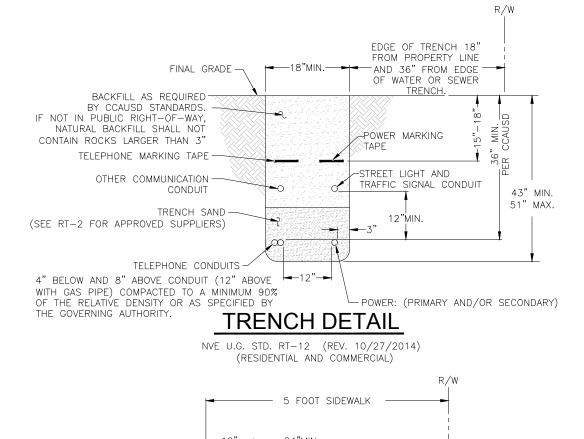
FROM SPRING MOUNTAIN ROAD TO SAHARA AVENUE SALVAGE PLAN CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

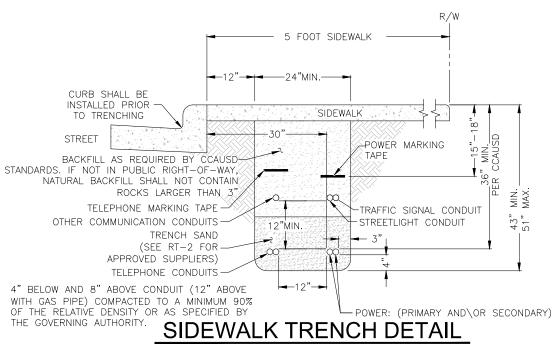


DESIGNED BY:	CAL	SCALE
DRAWN BY:	CAL	
CHECKED BY:	ACP	H
DATE:	11-15-2019	VE
Kim	ev» Horn	FIELD B
6671 Las Vegas Boulevo Las Vegas, Nevada 89	ard South, Suite 320 119 Tel. No.(702) 862–3600	

	HORIZ:	1" = 20'	
	VERT:	N/A	
'n	FIELD BOOK	NONE	
362-3600			

SHEET 264 OF 345





NVE U.G. STD. RT-7 (REV. 10/27/2014) (RESIDENTIAL OR COMMERCIAL)

STREETLIGHT CLEARANCE:

NPC FACILITIES (SUBSTRUCTURES) ARE NOT TO BE WITHIN 5' OF STREET LIGHT BASES, AND NPC CONDUITS ARE NOT TO CONFLICT WITH STREET LIGHT BASES

NOTICE:

THIS EXHIBIT IS THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF NV ENERGY AND MAY NOT BE USED, REPRODUCED OR DISTRIBUTED WITHOUT THE EXPRESSED, WRITTEN APPROVAL OF NV

THE IMAGES HEREON ARE NOT ORTHOPHOTOGRAPHIC. ANY EXHIBIT WAS CREATED FOR GENERAL PRESENTATION AND CUSSION PURPOSES ONLY AND IS NOT PURPORTED TO REPRESENT ANY MEASURE OF ACCURACY. THIS EXHIBIT IS NOT TO BE UTILIZED IN ANY MANNER NOT CONSISTENT WITH THE INTENT OF ITS' CREATION AS STATED ABOVE.

NVE WILL NOT VERIFY THE EXISTING CONDUIT. CUSTOMER TO ENSURE ITS INTEGRITY AND REPAIR IF NECESSARY.

CONSTRUCTION / INSPECTION REQUIREMENTS

WORK MUST CONFORM TO NVE ELECTRIC SERVICE STANDARDS, AVAILABLE AT: www.nvenergy.com/business/newconstruction/newconstructionS/servicestandards.cfm NVE INSPECTOR MUST BE PRESENT TO INSPECT TRENCHING (SCHEDULE AT LEAST 72 HOURS IN ADVANCE) AT <u>EACH</u> OF THE FOLLOWING STAGES: BOTTOM SAND AND CONDUIT INSTALLED

TOP SAND INSTALLED . BACKFILL INSTALLED

CONDUIT MUST BE MANDRILLED PRIOR TO RELEASE (COORDINATE WITH INSPECTOR). NVE STAND BY CREW IS REQUIRED WHEN WORKING AT AN ENERGIZED VAULT OR TRANSFORMER. CALL STAND BY NUMBER (SEE TITLE BLOCK) TO SCHEDULE. NVE ELECTRICAL INSTALLATION WILL NOT BE SCHEDULED UNTIL AFTER THE NVE INSPECTOR HAS COMPLETED THE OFFICIAL RELEASE.

- METER(S) WILL NOT BE SET UNTIL ALL OF THE FOLLOWING ARE COMPLETE: [INSTRUMENT-RATED ONLY] METERING EQUIPMENT HAS BEEN SUBMITTED TO NVE
- METERING ENGINEER AND APPROVED. (submittals_southern@nvenergy.com) APPLICATION FOR METER SET HAS BEEN SUBMITTED TO NVE'S NEW DEVELOPMENT
- CENTER. FORM AVAILABLE AT: www.nvenergy.com/brochures_arch/new_construction/meter_set.pdf
- THE LOCAL BUILDING AUTHORITY HAS INSPECTED AND APPROVED THE METERING
- METERING EQUIPMENT IS ACCESSIBLE AND CLEARLY IDENTIFIED WITH PERMANENT MARKINGS. ADDRESSES, SUITE NUMBERS, AND STREET SIGNS ARE POSTED IN PERMANENT LOCATIONS (SEE RPI-G).

TRACK PROJECT STATUS ONLINE WITH NVE'S DEVELOPER DASHBOARD: www.nvenergy.com/business/newconstruction/newconstructionS/developerdashboard.cfm

THE UTILITY.

PPROVAL BY:

NIGHT WORK: YES NO

encroachment permit #

APPROVED FOR PERMITTING

THIS APPROVAL IS FOR WORK IN CC R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASÉMENTS FOR WORK

SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF

PRECEDENCE OVER STANDARD NOTES.

,R,S: 21-61-09

APN: 162-09-799-002 **GENERAL NOTES:**

162-09-699-006 162-09-699-004 ANY NOTES LOCATED IN DRAWING AREA TAKE 162-09-699-001

REFER TO A CURRENT NVEnergy ELECTRIC SERVICE REQUIREMENTS HANDBOOK FOR FURTHER CLARIFICATION OF NVEnergy STANDARDS. THE APPLICANT SHALL INFORM THE INSPECTOR AT LEAST 48 HOURS BEFORE COMMENCING ANY ITEM OF CONSTRUCTION OR INSTALLATION OF MATERIAL TO ENABLE PROPER INSPECTION OF MATERIALS AND WORKMANSHIP. MAIN TRENCH WIRE PULLS TO BE SCHEDULED 72 HOURS IN ADVANCE OF INSTALLATION. APPLICANT'S PROJECT WILL NOT BE SCHEDULED UNTIL FINAL APPROVAL FROM NVEnergy UNDERGROUND & ELECTRICAL INSPECTORS.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC SERVICE REQUIREMENTS HANDBOOK, AS CURRENTLY ADOPTED BY NVEnergy. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF. SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THIS DRAWING ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. APPLICANT SHALL FIELD DETERMINE POSITION AND DEPTH OF EXISTING UTILITY EQUIPMENT PRIOR TO COMMENCING CONSTRUCTION.

USE CAUTION PRIOR TO EXCAVATION. CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES AND DRAINAGE CHANNELS.

CALL NVEnergy UNDERGROUND INSPECTORS 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH.

ALL NVEnergy CABLE TO BE INSTALLED BEHIND CURB, UNLESS OTHERWISE STATED.

APPLICANT IS RESPONSIBLE FOR STAKING OF PROPERTY CORNERS & ELEVATIONS.

ALL HANDHOLES AND PULLBOXES SHALL BE INSTALLED TO FINISHED GRADE OR 6" ABOVE IF GRADE IS NOT ESTABLISHED. ANY SUBSTRUCTURE VAULT INSTALLED IN GRAVEL, GRASS, OR BARE GROUND WILL REQUIRE A CONCRETED 8" WIDE AND 6" DEEP COLLAR AROUND BOX IN ACCORDANCE TO RS-G6.

2" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. RADIUS. (USE FIBERGLASS IF CONDUIT LENGTH IS OVER 500')

3" & 4" PLASTIC CONDUIT BENDS (90°, 45°) WITH 36" MIN. (USE RGS IF CONDUIT LENGTH IS OVER 100')

6" PLASTIC CONDUIT BENDS (90°, 45°) WITH 48" MIN. RADIUS. (USE RGS IF CONDUIT LENGTH IS OVER 100') WHEN INSTALLING CONDUIT IN FIELD, USE APPROPRIATE BENDS TO COMPLETE THE INSTALLATION.

DEFLECTION OF CONDUIT BENDS AND CONDUIT NOT TO EXCEED NVEnergy STANDARDS.

EXISTING STUB-OUT/CONDUIT INSTALLED BY PREVIOUS CONTRACTOR / DEVELOPER. NVEnergy DOES NOT GUARANTEE LOCATION, LENGTH, OR ACCESSIBILITY OF EXISTING STUB-OUT/CONDUIT. IF UTILIZING ANY PORTION OF EXISTING CONDUIT, IT MUST BE MANDRELED PRIOR TO FINAL RELEASE.

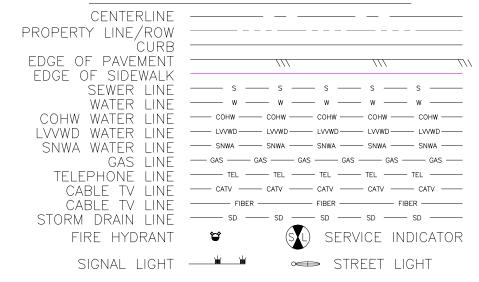
PREVIOUSLY MANDRELED CONDUIT WHICH HAS BEEN IN THE GROUND FOR OVER 6 MONTHS MUST BE RE-MANDRILLED PRIOR TO FINAL RELEASE.

WHEN NVEnergy FACILITIES ARE TO BE REMOVED, NVEnergy WILL REMOVE ALL WIRES AND EQUIPMENT. NVEnergy IS NOT RESPONSIBLE FOR THE REMOVAL OF CONDUIT RUNS OR SUBSTRUCTURES FROM THE PROPERTY.

NO COVERED PARKING IN FRONT OF EQUIPMENT.

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 ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

CIVIL LINETYPE LEGEND



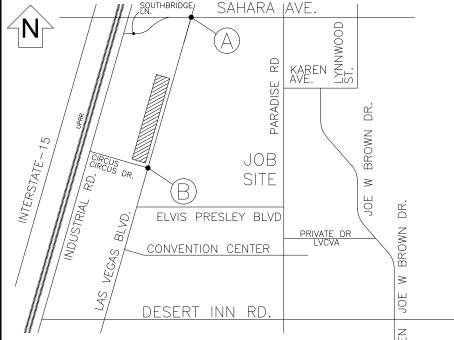
CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED*

DEVELOPER/CONTRACTOR SHALL OBTAIN A COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY

* NVE INSPECTOR WILL VERIFY COUNTY PERMIT FOR WORK DONE

WITHIN COUNTY RIGHT-OF-WAY

ENERGIZING AND SETTING OF ELECTRIC METER MAY BE DELAYED IF OFF-SITE RESTORATION IS NOT COMPLETED TO THE SATISFACTION OF CLARK COUNTY INSPECTOR



VICINITY MAP

EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES.

(NOT TO SCALE)



Call before you Dīg Avoid cutting underground utility lines. It's costly. CALL 1-800-227-2600 AND CLARK COUNTY TRAFFIC OPERATIONS 1-702-455-6000

REVISIONS

NO.	DESCRIPTION	DATE	REV BY
1	SHIFTED MH60988 130 FT TO THE SOUTH & RE-ROUTED ADDITIONAL 6"CONDUIT(0013 & 0022) TO MH60988. SHEET 2 & 3.	11/1/2019	JM
2	REVISED SWTICHYARD DETAIL 'SW-1' & STATION TABLE DUE TO FIELD CONDITIONS. SHEETS 2 & 8.	1/6/2020	

NON-STANDARD PROJECT PURPOSE:

TO INSTALL CONDUIT ONLY FOR FUTURE RELOCATION OF OVERHEAD POLE LINE

EXHIBIT 'A'

<u>NVEnergy INFORMATION:</u> COORDINATOR: JACKSON, DON PHONE: <u>(702) 236—3259</u> D.F. <u>KL</u>

DESIGNER: <u>MARTINEZ</u>, <u>JONATHAN</u>

INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118

DISTRICT: LAS VEGAS NORTH DISTRICT

<u>JPA INFORMATION:</u> JPA ADMIN PHONE: N/A _____ JPA#: <u>N/A</u>_

<u>CUSTOMER INFORMATION:</u> APPLICANT: COUNTY OF CLARK

APPLICANT CONTACT: YAZDANI, KAIZAD CONTACT: AHARTZ, SHANNON ** 702-862-3634

APPROVAL DATE: <u>7/25/2019</u> <u> GOVERNMENT INFORMATION:</u>

approval date(s):<u>10/21/2019</u>

AGENCY(S): <u>CLARK</u>

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR

EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.



CC-LAS VEGAS BLVD - CONDUITS ONLY(SPRING MOUNTAIN TO SAHARA) LAS VEGAS BLVD (215 TO SAHARA)

PROJ #3003089008 | SCALE: 1"=30" SHEET # 1 OF 8 DATE: 2/15/2019

CASTED IN PLACE PAD 23.00 3' CONCRETE APRON . GREEN BELT AREA

RS-99 PLACEMENT WITHOUT SIDEWALK

(ADJACENT TO PUBLIC RIGHT-OF-WAY)

FIRE HYDRANT CLEARANCE:

6' RADIUS FROM CENTER OF HYDRANT TO ALL ABOVE GROUND PADS AND/OR EQUIPMENT AND ALL MANHOLES AND SWITCHBOXES. 6' RADIUS FROM CENTER OF HYDRANT TO ALL UNDERGROUND HANDHOLES, PULLBOXES AND

SPLICEBOXES. ALL PER NVEnergy STD. RS-5

NVEnergy REQUIRES 24 HOUR **ACCESS TO EQUIPMENT**

!!!! CAUTION !!!!

ENERGIZED CABLES... CALL BEFORE YOU DIG

NV ENERGY SCHEDULING NOTE: NIGHT (LANE BLOCKS)

THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING DONE ON THIS PROJECT BY NV ENERGY CREWS WILL BE PREFORMED AT NIGHT TIME AND WILL REQUIRE TRAFFIC CONTROL.

GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. LEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

Sharing of this drawing and the information contained herein shall be only to individuals/parties who have entered into an agreement with Applicant for the completion of work associated with this specific project. Use for purposes other than this specific project requires the written consent of NV Energy.

RTC NOTES:

SIDEWALK

BACKFILL AND RIGHT OF WAY RESTORATION SHALL CONFORM

O TO 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT

O TO 5 YEARS PAVEMENT RESTORATION TRANSVERSE CUT

 $|1\rangle$ 500.4 Over 5 yrs pavement restoration longitudinal cut. 60' r.o.w or less

METHOD A FOR FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS

)|backfill in unpaved area as required by local code or as approved by agency.

OVER 5 YRS PAVEMENT RESTORATION TRANSVERSE ALL R.O.W WIDTHS

METHOD B FOR RIGID AND FLEXIBLE PIPE TRENCH BACKFILL - PAVED AREAS

OVER 5 YEARS PAVEMENT RESTORATION LONGITUDINAL CUT. GREATER THAN 60' R.O.W

TYPICAL UNDERGROUND UTILITY LOCATIONS IN RESIDENTIAL STREETS 60' OR LESS R.O.W.

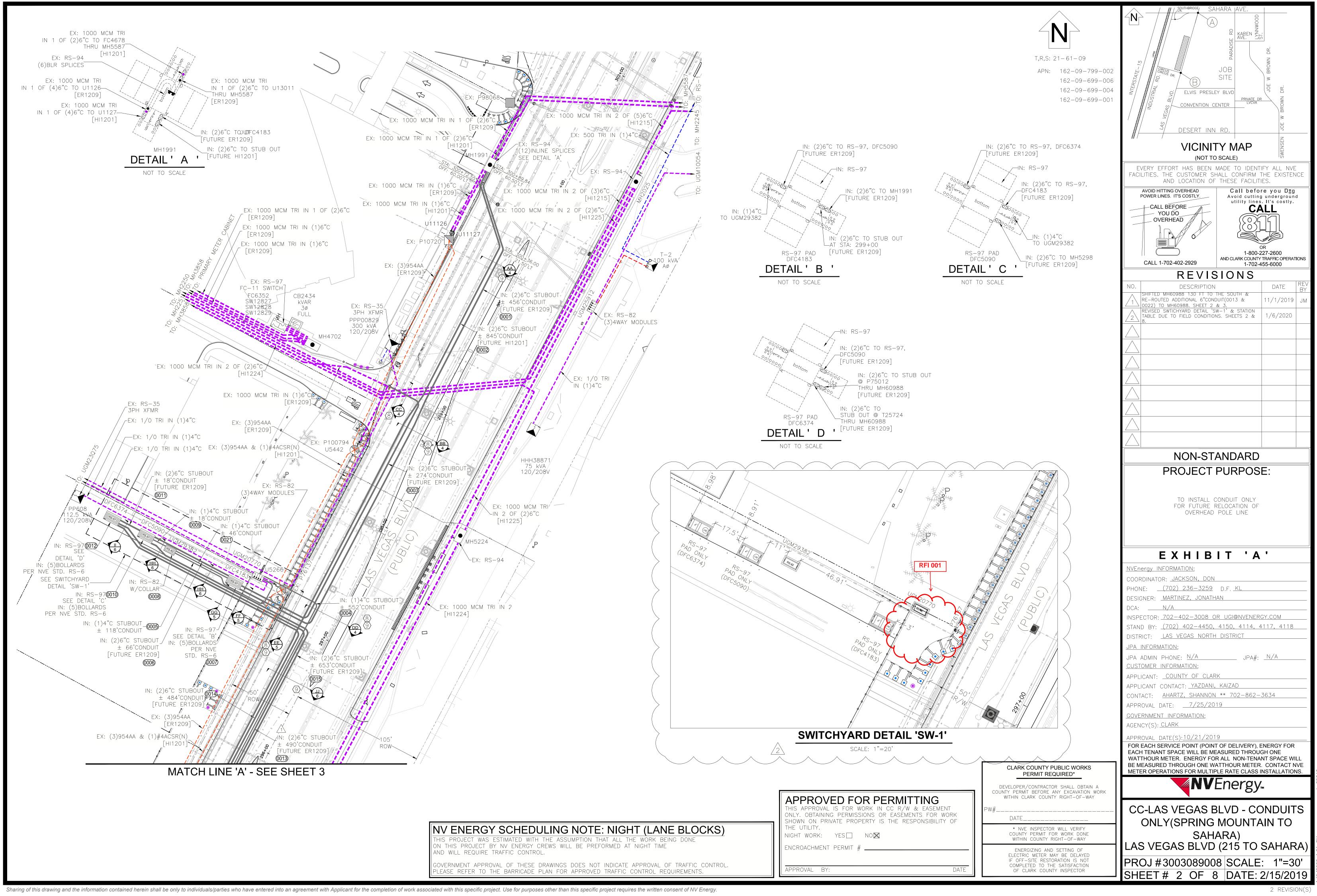
TYPICAL UTILITY UNDERGROUND LOCATIONS IN STREETS WITH GREATER THAN 60' R.O.W.

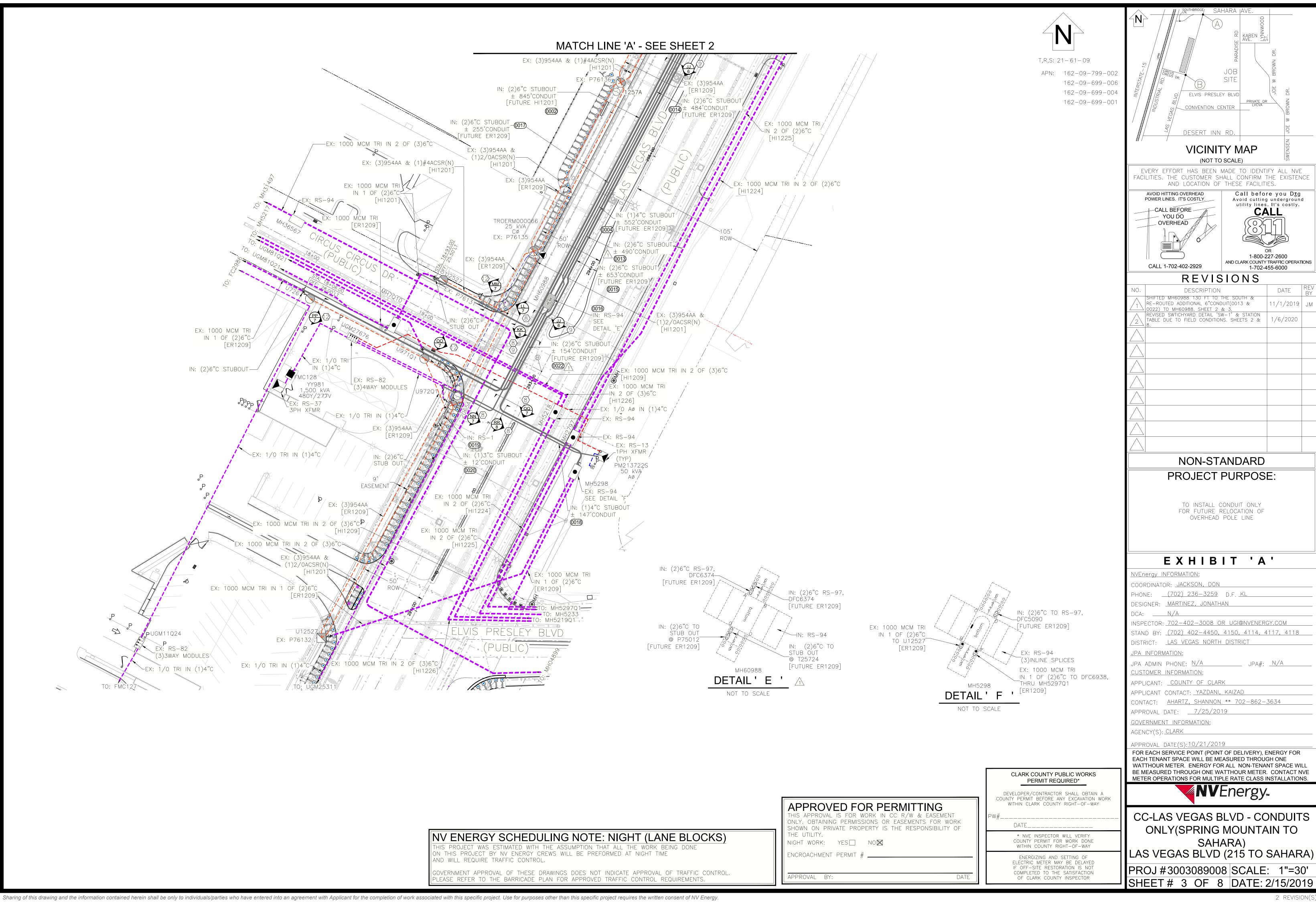
TO CLARK COUNTY UNIFORM STANDARD DRAWINGS

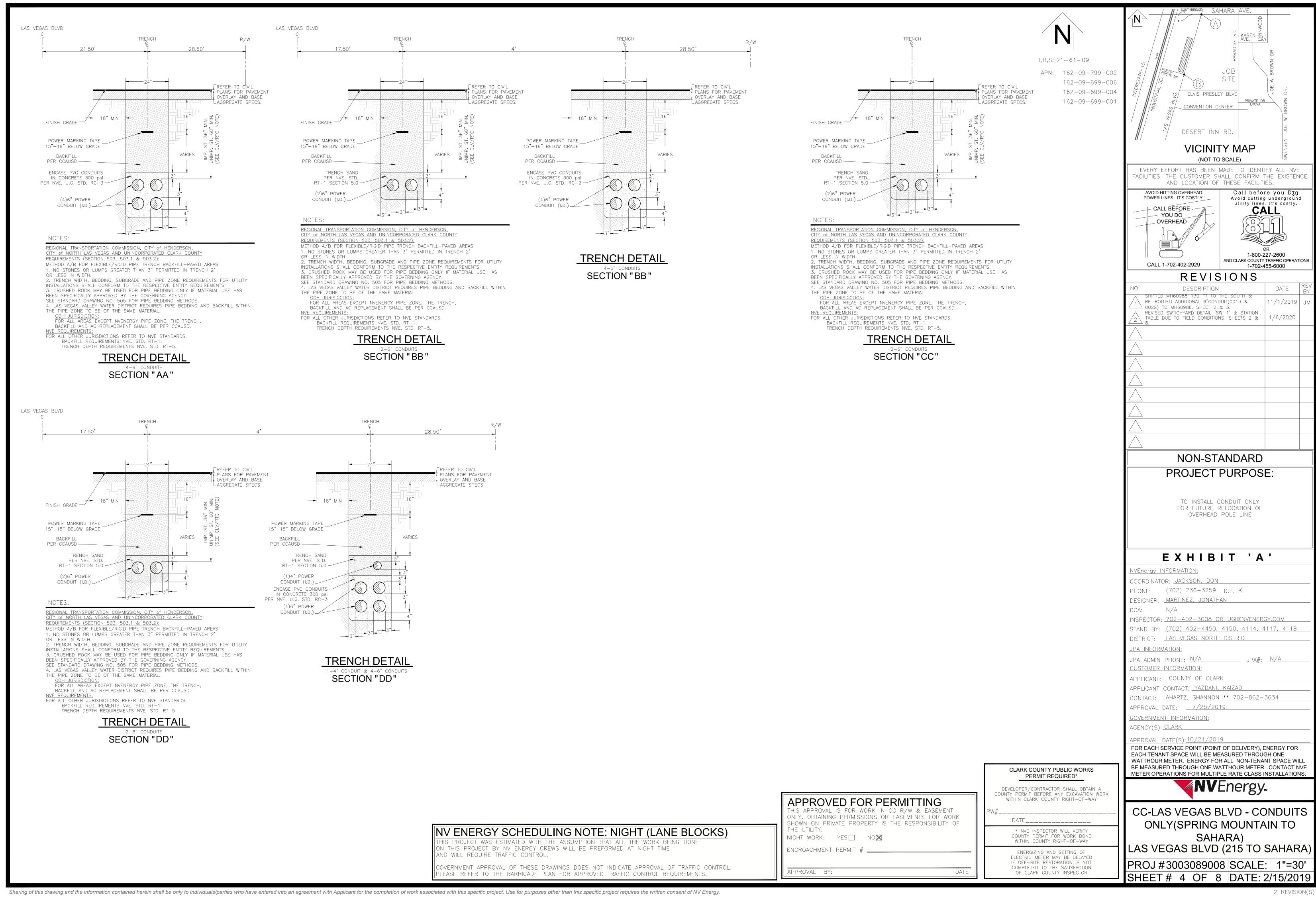
UTILITY POTHOLE REPAIR

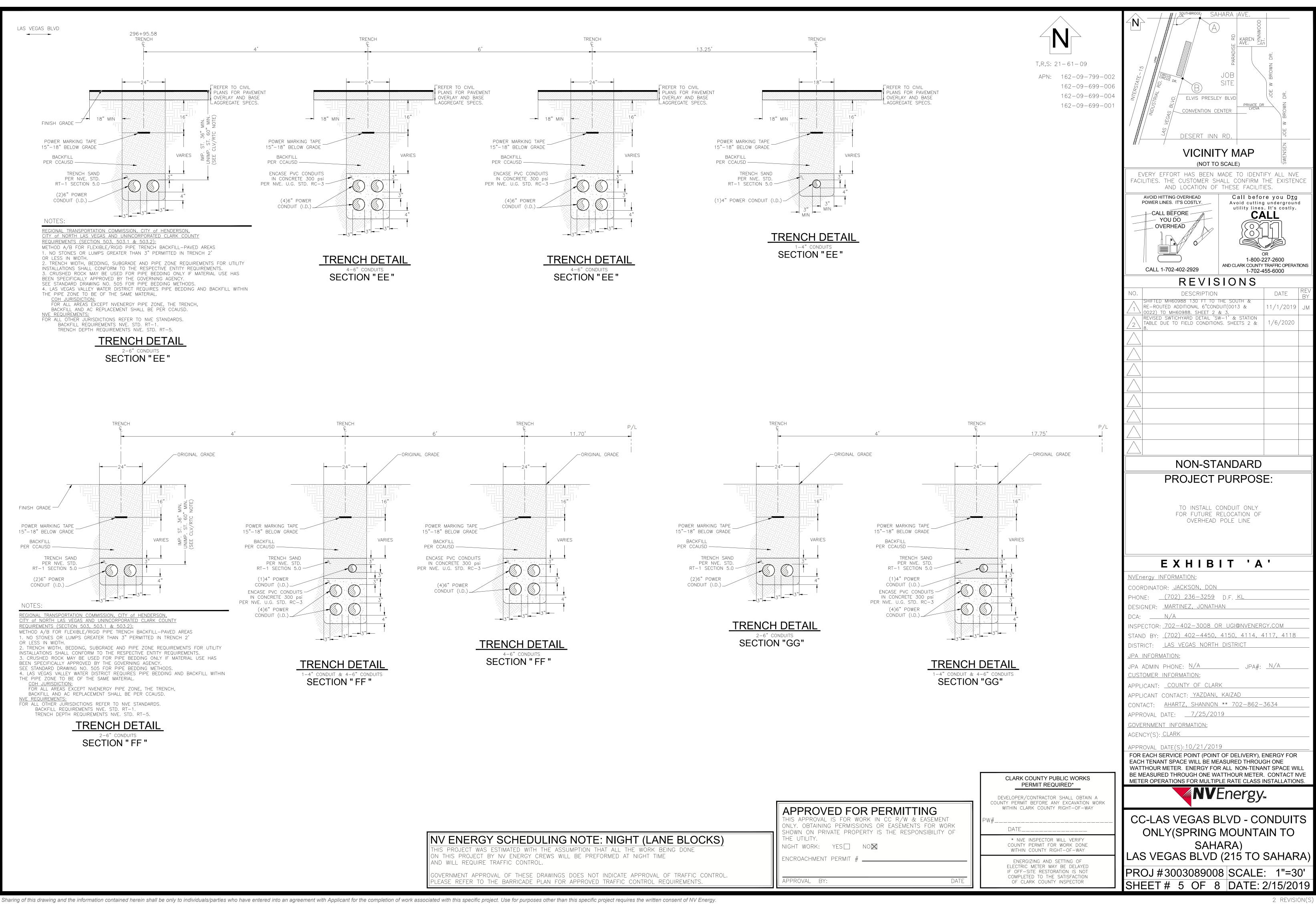
"L" TYPE CURB AND GUTTER

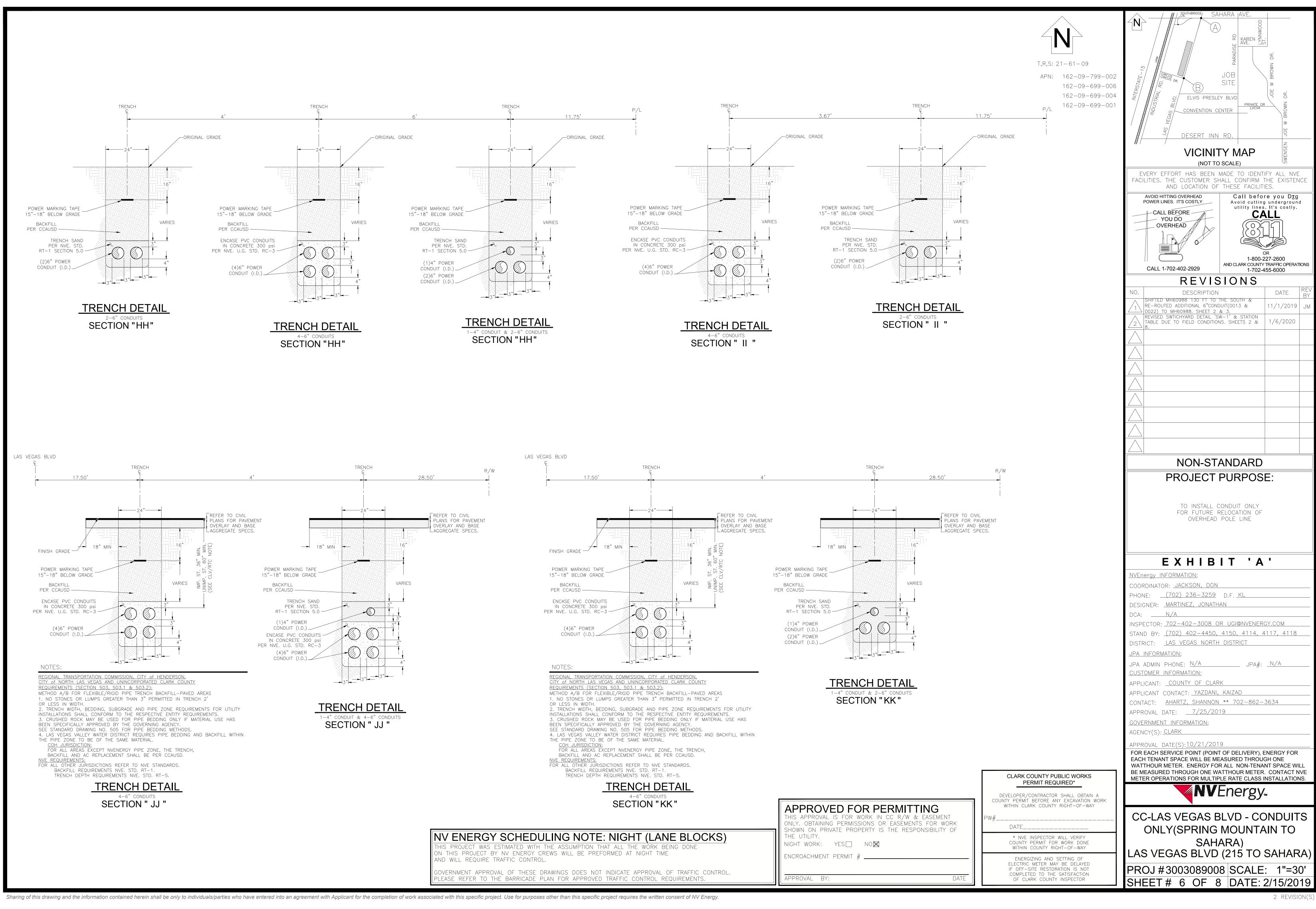
2 REVISION(S)

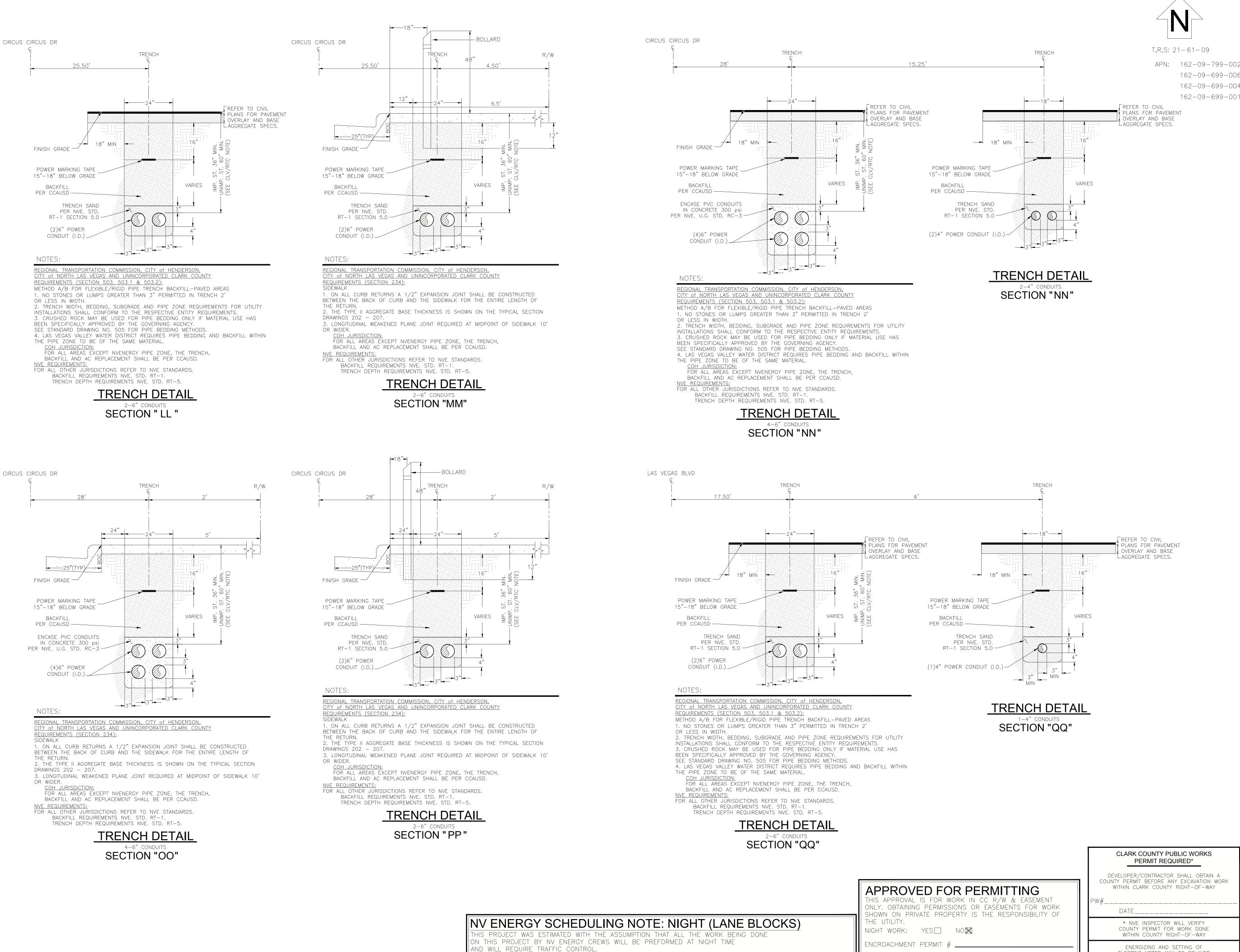












GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL.

APPROVAL BY:

LEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS

ELVIS PRESLEY BLVD CONVENTION CENTER DESERT INN RD. **VICINITY MAP** (NOT TO SCALE) EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE AND LOCATION OF THESE FACILITIES. AVOID HITTING OVERHEAD Call before you Dīg POWER LINES. IT'S COSTLY. Avoid cutting underground utility lines. It's costly. -CALL BEFORE -YOU DO OVERHEAD 1-800-227-2600 AND CLARK COUNTY TRAFFIC OPERATIONS CALL 1-702-402-2929 1-702-455-6000 REVISIONS SHIFTED MH60988 130 FT TO THE SOUTH & \ RE-ROUTED ADDITIONAL 6"CONDUIT(0013 & 0022) TO MH60988. SHEET 2 & 3.

REVISED SWTICHYARD DETAIL 'SW-1' & STATION TABLE DUE TO FIELD CONDITIONS. SHEETS 2 & **NON-STANDARD** PROJECT PURPOSE: TO INSTALL CONDUIT ONLY FOR FUTURE RELOCATION OF OVERHEAD POLE LINE EXHIBIT 'A' NVEnergy INFORMATION: COORDINATOR: JACKSON, DON PHONE: (702) 236-3259 D.F. KL DESIGNER: <u>MARTINEZ</u>, <u>JONATHAN</u> DCA: N/A INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118 DISTRICT: LAS VEGAS NORTH DISTRICT JPA INFORMATION: ____ JPA#: <u>N/A</u> jpa admin phone: <u>N/A</u> **CUSTOMER INFORMATION:** APPLICANT: <u>COUNTY OF CLARK</u> APPLICANT CONTACT: YAZDANI, KAIZAD CONTACT: AHARTZ, SHANNON ** 702-862-3634 APPROVAL DATE: $\frac{7/25/2019}{}$ GOVERNMENT INFORMATION AGENCY(S): CLARK APPROVAL DATE(S): 10/21/2019 FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS. **NV**Energy_™ CC-LAS VEGAS BLVD - CONDUITS ONLY(SPRING MOUNTAIN TO SAHARA) LAS VEGAS BLVD (215 TO SAHARA) PROJ #3003089008 | SCALE: 1"=30"

ELECTRIC METER MAY BE DELAYED

IF OFF-SITE RESTORATION IS NOT

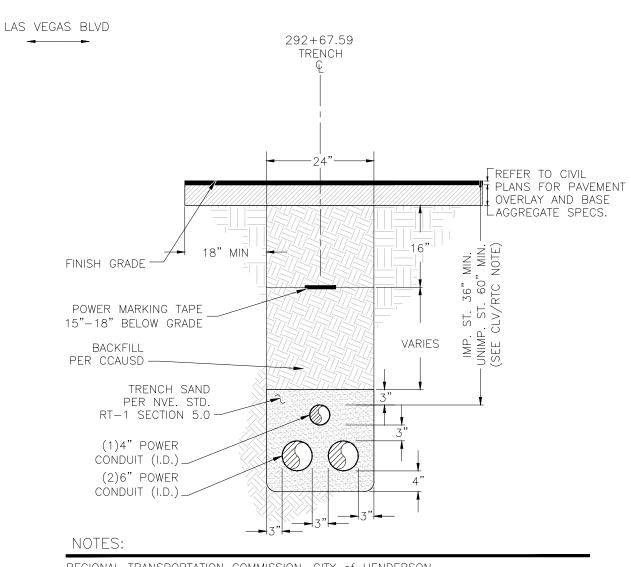
COMPLETED TO THE SATISFACTION

OF CLARK COUNTY INSPECTOR

DATE

11/1/2019

SHEET # 7 OF 8 DATE: 2/15/2019



REGIONAL TRANSPORTATION COMMISSION, CITY of HENDERSON, CITY of NORTH LAS VEGAS AND UNINCORPORATED CLARK COUNTY REQUIREMENTS (SECTION 503, 503.1 & 503.2): METHOD A/B FOR FLEXIBLE/RIGID PIPE TRENCH BACKFILL-PAVED AREAS

1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.

2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS. 3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS

BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS. 4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

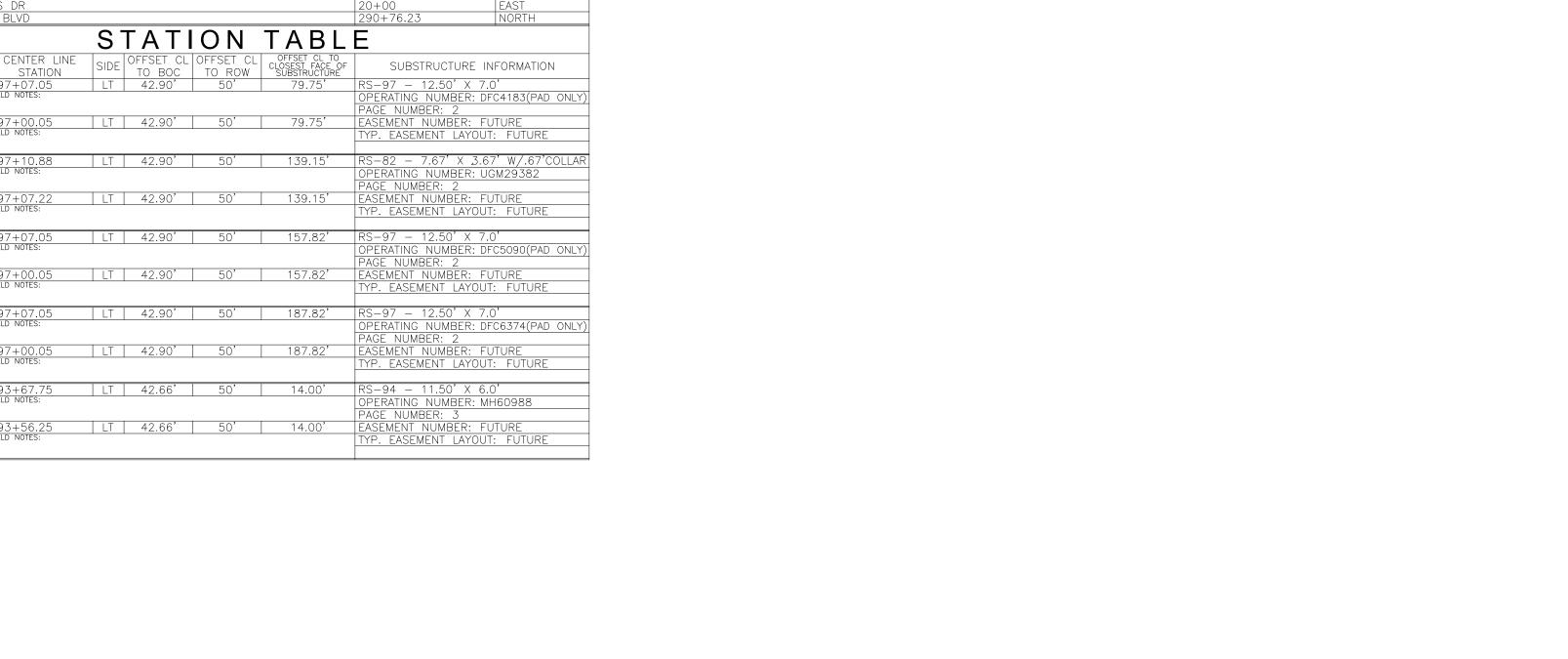
COH JURISDICTION: FOR ALL AREAS EXCEPT NVENERGY PIPE ZONE, THE TRENCH, BACKFILL AND AC REPLACEMENT SHALL BE PER CCAUSD.

NVE REQUIREMENTS: FOR ALL OTHER JURISDICTIONS REFER TO NVE STANDARDS. BACKFILL REQUIREMENTS NVE. STD. RT-1.

TRENCH DEPTH REQUIREMENTS NVE. STD. RT-5.

TRENCH DETAIL 1-4" CONDUIT & 2-6" CONDUITS SECTION "RR"

# STRE		RSECTION					TABL	HEADED
SAH,	ARA AVE						10+00	EAST
A	AS VEGA	AS BLVD					321+23.00	NORTH
CIRC	CUS CIRC	CUS DR					20+00	EAST
BICIRC	AS VEGA	AS BLVD					290+76.23	NORTH
			S	ΤΑΤΙ	ON	TABL	E	
MAXIMO STATION	CORNER	CENTER LINE STATION	SIDE	TO BOC	OFFSET CL TO ROW	OFFSET CL TO CLOSEST FACE OF SUBSTRUCTURE	SUBSTRUCTUR	E INFORMATION
		297+07.05	LT	42.90'	50'	79.75'	RS-97 - 12.50' X	
(0007)	NORTH	FIELD NOTES:					OPERATING NUMBER PAGE NUMBER: 2	,
(0007)		297+00.05	LT	42.90'	50'	79.75'	EASEMENT NUMBER:	
2	SOUTH	FIELD NOTES:						OUT: FUTURE
		297+10.88	LT	42.90'	50'	139.15		3.67' W/.67'COLL
(0008)	NORTH	FIELD NOTES:					OPERATING NUMBER PAGE NUMBER: 2	R: UGM29382
(0000)		297+07.22	LT	42.90'	50'	139.15'	EASEMENT NUMBER:	: FUTURE
2	SOUTH	FIELD NOTES:					TYP. EASEMENT LAY	OUT: FUTURE
		297+07.05	LT	42.90'	50'	157.82	RS-97 - 12.50' X	7.0'
6040	NORTH	FIELD NOTES:					OPERATING NUMBER PAGE NUMBER: 2	R: DFC5090(PAD ON
(0010)		297+00.05	LT	42.90'	50'	157.82	EASEMENT NUMBER:	: FUTURE
2	SOUTH	FIELD NOTES:					TYP. EASEMENT LAY	
		297+07.05	LT	42.90'	50'	187.82	RS-97 - 12.50' X	7.0'
6010	NORTH	FIELD NOTES:					OPERATING NUMBER PAGE NUMBER: 2	R: DFC6374(PAD ONI
(0012)		297+00.05	LT	42.90'	50'	187.82	EASEMENT NUMBER:	: FUTURE
2	SOUTH	FIELD NOTES:					TYP. EASEMENT LAY	OUT: FUTURE
		293+67.75	LT	42.66'	50'	14.00'	RS-94 - 11.50' X	6.0'
	NORTH	FIELD NOTES:					OPERATING NUMBER	R: MH60988
(0016)							PAGE NUMBER: 3	
		293+56.25	III	42.66'	50'	14.00'	EASEMENT NUMBER:	



APPROVED FOR PERMITTING

THIS APPROVAL IS FOR WORK IN CC R/W & EASEMENT ONLY. OBTAINING PERMISSIONS OR EASÉMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

NIGHT WORK: YES NO▼

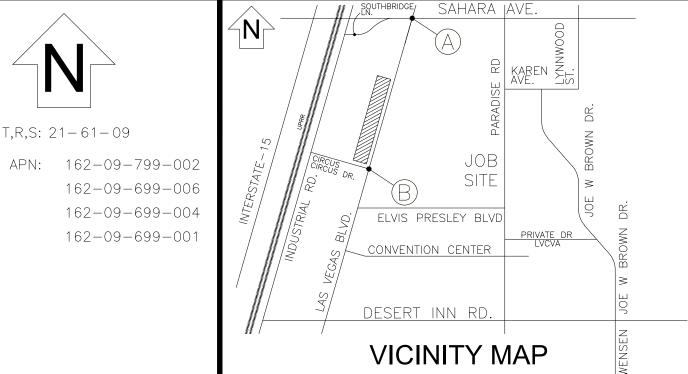
ENCROACHMENT PERMIT # _ PPROVAL BY:

CLARK COUNTY PUBLIC WORKS PERMIT REQUIRED*	
DEVELOPER/CONTRACTOR SHALL ORTAIN	٨

COUNTY PERMIT BEFORE ANY EXCAVATION WORK WITHIN CLARK COUNTY RIGHT-OF-WAY

* NVE INSPECTOR WILL VERIFY COUNTY PERMIT FOR WORK DONE WITHIN COUNTY RIGHT-OF-WAY

> ENERGIZING AND SETTING OF ELECTRIC METER MAY BE DELAYED IF OFF-SITE RESTORATION IS NOT COMPLETED TO THE SATISFACTION OF CLARK COUNTY INSPECTOR



(NOT TO SCALE) EVERY EFFORT HAS BEEN MADE TO IDENTIFY ALL NVE FACILITIES. THE CUSTOMER SHALL CONFIRM THE EXISTENCE

AND LOCATION OF THESE FACILITIES.

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY. -- CALL BÉFORE - YOU DO OVERHEAD CALL 1-702-402-2929

T,R,S: 21-61-09



REVISIONS

NO.	DESCRIPTION	DATE	BY BY
1	SHIFTED MH60988 130 FT TO THE SOUTH & RE-ROUTED ADDITIONAL 6"CONDUIT(0013 & 0022) TO MH60988. SHEET 2 & 3.	11/1/2019	JM
2	REVISED SWTICHYARD DETAIL 'SW-1' & STATION TABLE DUE TO FIELD CONDITIONS. SHEETS 2 & 8.	1/6/2020	

NON-STANDARD PROJECT PURPOSE:

TO INSTALL CONDUIT ONLY FOR FUTURE RELOCATION OF OVERHEAD POLE LINE

EXHIBIT 'A' NVEnergy INFORMATION: COORDINATOR: JACKSON, DON PHONE: (702) 236-3259 D.F. KL DESIGNER: <u>MARTINEZ, JONATHAN</u>

DCA: <u>N/A</u> INSPECTOR: 702-402-3008 OR UGI@NVENERGY.COM

STAND BY: (702) 402-4450, 4150, 4114, 4117, 4118 DISTRICT: LAS VEGAS NORTH DISTRICT

JPA INFORMATION: jpa admin phone: <u>N/A</u> jpa#: <u>N/A</u>

CUSTOMER INFORMATION: APPLICANT: <u>COUNTY OF CLARK</u>

APPLICANT CONTACT: YAZDANI, KAIZAD

CONTACT: AHARTZ, SHANNON ** 702-862-3634 APPROVAL DATE: <u>7/25/2019</u>

GOVERNMENT INFORMATION: AGENCY(S): CLARK

APPROVAL DATE(S): 10/21/2019

FOR EACH SERVICE POINT (POINT OF DELIVERY), ENERGY FOR EACH TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. ENERGY FOR ALL NON-TENANT SPACE WILL BE MEASURED THROUGH ONE WATTHOUR METER. CONTACT NVE METER OPERATIONS FOR MULTIPLE RATE CLASS INSTALLATIONS.

NVEnergy_™

CC-LAS VEGAS BLVD - CONDUITS ONLY(SPRING MOUNTAIN TO SAHARA) LAS VEGAS BLVD (215 TO SAHARA)

PROJ #3003089008 SCALE: 1"=30" SHEET # 8 OF 8 DATE: 2/15/2019

NV ENERGY SCHEDULING NOTE: NIGHT (LANE BLOCKS)

THIS PROJECT WAS ESTIMATED WITH THE ASSUMPTION THAT ALL THE WORK BEING DONE ON THIS PROJECT BY NV ENERGY CREWS WILL BE PREFORMED AT NIGHT TIME AND WILL REQUIRE TRAFFIC CONTROL.

GOVERNMENT APPROVAL OF THESE DRAWINGS DOES NOT INDICATE APPROVAL OF TRAFFIC CONTROL. PLEASE REFER TO THE BARRICADE PLAN FOR APPROVED TRAFFIC CONTROL REQUIREMENTS.

		FO	UNDATI	ON SIZ	E (S)	
CAISSON DATA (EA)				LONGITUDINA	L BARS (EA)	TRANSVERSE BARS (EA)
POLE	DIAMETER "D" (FT)	LENGTH "L" (FT)	CONCRETE STRENGTH (PSI)	QUANTITY	SIZE	SIZE
40'-0"	2.5	12.0	4,500	14	#8	#4

GENERAL NOTES:

- 1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 OR EQUAL.
- FOUNDATION TO BE CAST AGAINST UNDISTURBED SOIL.
- FOUNDATION TO BE POURED MONOLITHICALLY.
- FOUNDATION DESIGN BASED ON WATER TABLE BEING BELOW THE BOTTOM OF THE PIER. IF WATER TABLE IS ENCOUNTERED AT TIME OF EXCAVATION, CONSULT VALMONT OR A GEOTECH ENGINEER.
- SITE GRADE IS 7H TO 1V OR FLATTER.
- 6. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ACI, LOCAL, AND STATE CODES.
- 7. ALL METHODS OF CONSTRUCTION AND INSTALLATION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 8. DESIGN BASED ON ASSUMED SOIL CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE ACTUAL SITE SOIL CONDITIONS MEET OR EXCEED THE ASSUMED VALUES.
- 9. ANCHOR BOLT INFORMATION CAN BE FOUND IN VALMONT CALCULATIONS DATED 5/1/2019.
- 10. CONTINUOUS BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME, AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE POLE GROUNDING PLATE.
- 11. FOUNDATION CALCULATED TO ACCOMMODATE MAX LOAD OF POLE ON DRAWING NV112819D1.

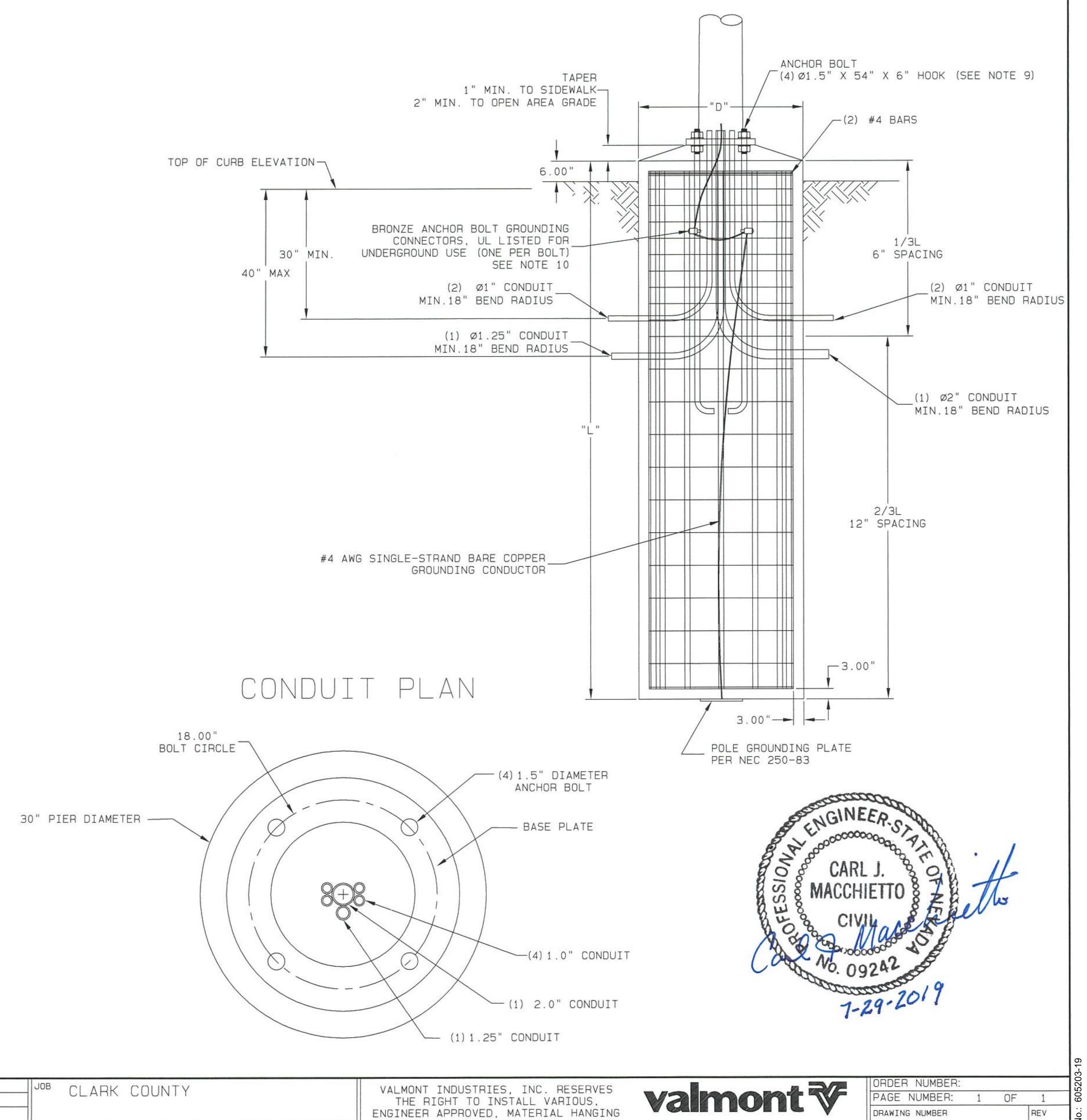
DESCRIPTION

SOLD TO:

SHIP TO:

P.O. #:

AGENT:



ISSUED FOR CONSTRUCTION 10/23/2019

AAH 07/26/19 AAH 07/26/19 ADDED NOTE FOR (2) #4 BARS

AAH 06/05/19 AAH 06/06/19 ADDED BOLT CIRCLE DIMENSON

Valley, NE 68064

(402) 359-2201

ENGINEER APPROVED, MATERIAL HANGING

ACCOMMODATIONS TO FACILITATE THE

MANUFACTURING PROCESS.

TITLE FOUNDATION DESIGN

DRAWING NUMBER