DEPARTMENT OF PUBLIC WORKS

Mayor:
CAROLYN G. GOODMAN

City Council:
MICHELE FIORE
STAVROS S. ANTHONY (Mayor Pro-Tem)
CEDRIC CREAR
BRIAN KNUDSEN
VICTORIA SEAMAN
OLIVIA DIAZ

City Manager:
JORGE CERVANTES, P.E., P.T.O.E.

Director of Public Works:
MIKE JANSSEN, P.E., P.T.O.E.

City Engineer:
STEVE FORD, P.E.

Funded By:
REGIONAL TRANSPORTATION COMMISION
OF SOUTHERN NEVADA

CLARK COUNTY FUELING OUR FUTURE NEW ROADS • NEW JOBS

Jason Ghadery
Digitally signed by Jason Ghadery
DN: C=US, E=jason.ghadery@lvvwd.com, O=LVVWD/SNWA, OU=Planning & Engineering Services, CN=Jason Ghadery
Date: 2021.04.05 16:45:25-07'00'

PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1

100% FINAL
JANUARY 2021

Reviewed By:

CLV CITY ENGINEER	4/15/2021 DATE
CLV PROJECT MANAGER	04-15-2021 DATE
CLV CITY TRAFFIC ENGINEER	4/15/2021 DATE
CLV CONSTRUCTION MANAGER	4/19/2021 DATE
CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT	DATE
REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA	12-14-2020 DATE
SOUTHWEST GAS CORPORATION — KURK DORMAN UID#19KAD435	03/17/2021 DATE
CENTRAL TELEPHONE COMPANY d/b/a CENTURYLINK	12-16-2020 DATE
COX COMMUNICATIONS LAS VEGAS, INC.	12/31/2020 DATE
NV ENERGY – DISTRIBUTION	12-17-2020 DATE
NV ENERGY - TRANSMISSION	12-15-2020 DATE

THE AFFIXED CENTURYLINK NEVADA APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION STANDARD REGULATIONS.

NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

APPROVED FOR CONSTRUCTION

Jason N. Ghadery

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 138967 FIRST APPROVED DATE: 4/5/2021
SHEETS: GN-01, GN-03, DM-01, RD-01 - RD-02, GR-01 - GR-04, SD-01, WT-01 - WT-03, SU-01 - SU-02, SD-01 - SD-05, LA-01, IR-00 -IR-01

THE SIGNATURE ABOVE ACKNOWLEDGES THAT THE UTILITY COMPANY REPRESENTATIVE HAS REVIEWED THE PLANS, AND THAT TO THE BEST OF HIS OR HER KNOWLEDGE THE UTILITY LINES ARE SHOWN IN THE CORRECT LOCATIONS AND ARE THE CORRECT SIZES. WHILE SUCH DATA HAS BEEN COLLECTED WITH REASONABLE CARE, THERE IS NO EXPRESSED OR IMPLIED GUARANTEE THAT THE LOCATIONS ARE EXACT. THE CONTRACTOR SHALL BEAR THE RESPONSIBILITY OF OBTAINING THE ACTUAL FIELD LOCATIONS.

THE SIGNATURE ABOVE FURTHER ACKNOWLEDGES THAT THE UTILITY COMPANY DOES NOT ANTICIPATE CONSTRUCTION OR MAINTENANCE IN THE PROJECT AREA FOR FIVE (5) YEARS IN CONFORMANCE WITH THE CLV NO-CUT POLICY.

NO. | DATE | SHEET | REVISIONS

PREPARED BY
VTN
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L. MURPHY
EXP. 12/31/21
CIVIL
No. 18493
3-24-2021

PREPARED FOR
CITY OF LAS VEGAS

DATE: JANUARY 2021	DESIGNED BY: BG
BID # 21.MWA832	DRAWN BY: BG
H # 69743	CHECKED BY: MM
SUBMITTAL STAGE: 100% FINAL	

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
COVER SHEET

SHEET
CV
1 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

12/4/20 H:\69467 PRODUCTION\PHASE 1\69674\DCV-1.DWG

CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".

2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER OR OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGN TO BE APPROVED BY THE QUALITY CONTROL DIVISION, PRIOR TO THE USE ON THE PROJECT.

6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.

7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.

8. AC PAVEMENT TO BE 1/2" ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS.

9. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR-TENTHS OF ONE PERCENT SHALL BE WATER-TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. ANY CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY SHALL BE REMOVED AND REPLACED PER USD 216.

10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER USD 235, CASE I. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE.

11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF TRANSITIONS TO BE AS SHOWN ON PLANS, OR AS DESIGNATED IN THE FIELD BY CITY PROJECT REPRESENTATIVE.

12. EXACT LOCATION OF ALL SAWCUT LINES MAY BE DETERMINED IN THE FIELD BY A CITY PROJECT REPRESENTATIVE IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.

13. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED, AND SHALL BE DONE ONLY BY A NEVADA PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS - CLARK COUNTY AREA. A RECORD-OF-SURVEY FOR REPLACEMENT OF PERMANENT SURVEY MONUMENTS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO RECORDING. THE RECORD-OF-SURVEY SHALL BE PREPARED IN ACCORDANCE WITH NEVADA REVISED STATUTES 625.350.

14. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE AFFECTED UTILITY COMPANY AND THE CITY ENGINEER.

15. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE CLV BUILDING DEPARTMENT.

16. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHTS OF WAY.

17. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, SEWER CLEANOUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.

18. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT AND CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.

19. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.

20. NEWLY INSTALLED AND EXISTING UTILITIES EXPOSED DURING CONSTRUCTION SHALL BE SURVEYED AND DOCUMENTED PER SECTION 622 OF THE SPECIAL PROVISIONS.

21. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST ADDITION.

22. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED JULY 23, 2015 (CPM VERSION)

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.

3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.

4. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.

5. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.

6. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.

7. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

8. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, SUCH ITEM SHALL BE PROVIDED, AS DIRECTED BY THE CITY ENGINEER, AT NO EXPENSE TO THE CITY OF LAS VEGAS. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED APRIL 13, 2015 (CPM VERSION)

CITY OF LAS VEGAS SEWER NOTES

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

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

3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.

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

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

6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" 'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.

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

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

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

10. INSTALLATION OF CURVED SEWERS REQUIRES THE USE OF C-900 PVC PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

REVISED JANUARY 13, 2015

CITY OF LAS VEGAS STREET LIGHT NOTES

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

2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.

3. LUMINAIRES SHALL BE MARKED TO INDICATE INSTALLATION ORIENTATION, AND SHALL HAVE EXTERNAL LABELS PER ANSI C136 THAT INDICATE WATTAGE AND ARE CLEARLY VISIBLE FROM STREET LEVEL

4. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623 OF THE USS.

5. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623 G.03.01 OF THE USS.

6. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN No. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623 G.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.

7. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.

8. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.

9. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.

10. NEW STREETLIGHT SERVICES SHALL BE 200 AMP PADMOUNT AND SHALL PROVIDE CAPACITY FOR 20 OR 24 AVAILABLE CIRCUITS.

11. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS OR IN THE SPECIAL PROVISIONS.

CITY OF LAS VEGAS STREET LIGHT NOTES - CONTINUED

12. ALL STREET LIGHTING AND TRAFFIC SIGNAL EQUIPMENT REMOVED AND / OR DESIGNATED TO BE SALVAGED SHALL BE DELIVERED BY THE CONTRACTOR TO THE APPROPRIATE CLV SERVICE YARD WITH A MEANS TO UNLOAD. A MINIMUM 24-HOUR NOTICE OF DELIVERY IS REQUIRED. CALL 702-229-6331 TO SET UP DELIVERY TIME AND LOCATION. REPAIR OF ANY DAMAGE TO EQUIPMENT DURING THIS PROCESS WILL BE THE CONTRACTOR'S RESPONSIBILITY, AT NO ADDITIONAL COST TO THE CITY.

REVISED May 19, 2020 (CPM VERSION)

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.

3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.

4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCROACHED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.

5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.

7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.

8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.

9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.

10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.

11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTC) TRANSIT IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.

13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.

14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.

15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED JUNE 4, 2018

"CLV FIBER OPTIC NETWORK" GENERAL NOTES

1. RIGHT OF WAY 80 FEET OR WIDER, FURNISH AND INSTALL TWO 4-INCH PVC CONDUITS WITH #8 AWG THW GREEN BOND GROUNDS ON BOTH SIDES OF THE ROADWAY.
2. FOR RIGHT OF WAY LESS THAN 80 FEET, FURNISH AND INSTALL TWO 4-INCH PVC CONDUITS WITH #8 AWG THW GREEN BONDS GROUND ON ONE SIDE OF THE ROADWAY.
3. PROVIDE 4-INCH CONDUIT CONNECTIONS WITH #8 AWG THW GREEN BOND GROUND CROSSING THE STREET AND CONNECT TO THE 4 INCH CONDUIT ON EACH SIDE OF THE STREET WITH P30 PULL BOXES, EXCEPT WHEN ADJACENT TO A TRAFFIC SIGNAL CONTROLLER CABINET INSTALL A TYPE 200 SPLICE VAULT.
4. FURNISH AND INSTALL P30 PULL BOX PER USDCCA STD. DWG. NO. 761 AT EACH NON-SIGNALIZED INTERSECTION WITH "FIBER OPTIC CLV" INSCRIBED ON COVER.
5. FURNISH AND INSTALL TYPE 200 SPLICE VAULT PER USDCCA STD. DWG. 762 AT EACH SIGNALIZED INTERSECTION WITH "FIBER OPTIC CLV" INSCRIBED ON COVER.
6. PROVIDE ONE 4-INCH CONDUIT CONNECTION BETWEEN TYPE 200 FIBER OPTIC CLV SPLICE VAULT AND RTC-FAST TRAFFIC SIGNAL TYPE 200 SPLICE VAULT WHEN APPLICABLE.
7. FURNISH AND INSTALL HOFFMAN U6969APP TELECOM CABINET OR APPROVED EQUAL. TELECOM CABINET SHALL BE POLE MOUNTED PER CABINET MOUNTING DETAIL WITH FINISH COLOR SPECIFIED BY CITY OF LAS VEGAS.
8. TELECOM CABINET WILL BE POWERED FROM TRAFFIC SIGNAL SERVICE PEDESTAL WITH TWO DEDICATED 20 AMP CIRCUITS. EACH CIRCUIT WILL BE LANDED ON A POWER STRIP IN CABINET. PROVIDE CONDUIT AND CONDUCTOR BETWEEN SERVICE PEDESTAL AND TELECOM CABINET.
9. MOUNT TELECOM CABINET 6 INCHES ABOVE TRAFFIC SIGNAL MAST ARM HAND HOLE ON TRAFFIC SIGNAL SHAFT (APPROXIMATELY 19 FEET).
10. FURNISH AND INSTALL 72 STRAND FIBER OPTIC CABLE AND #8 AWG THW GREEN BOND GROUND ON ONE SIDE OF THE STREET FOR CLV FIBER OPTIC COMMUNICATIONS NETWORK.
11. FURNISH AND INSTALL 12 STRAND CDCA FROM THE TYPE 200 VAULT TO THE POLE MOUNTED TELECOM CABINET. CITY OF LAS VEGAS TO PROVIDE FIBER SPLICE DETAILS.
12. ETHERNET SWITCH WILL BE PROVIDED BY THE OWNER AFTER CONSTRUCTION HAS STARTED. THE CONTRACTOR WILL BE REQUIRED TO PICK UP AND INSTALL THE SWITCH IN EACH TELECOM CABINET AS SHOWN ON THE CONTRACT DRAWINGS AND AS DIRECTED BY THE ENGINEER.

REVISION DATE: FEBRUARY 18, 2020

CITY OF LAS VEGAS FIRE AND RESCUE NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6631 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. IFC § 105.6.15
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. IFC § 3310, § 3312
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. IFC § 507.5.7.3
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. IFC § 106.3
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. IFC § 507.2.1, NFPA 24
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE; FIRE PREVENTION DIVISION. IFC § 507
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. IFC § 507.5.7.1
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. IFC § 507
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: IFC § C102
    - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
    - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. IFC § C102.8
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20 FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION. IFC § C102.10
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § 102.4
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE. IFC § C102.7
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. IFC § C102.6
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, SECTION CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ONE SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. IFC § C104
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL-WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. IFC § 503.2.3
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12%. ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. IFC § 503.2.7;

CLV TRAFFIC SIGNAL NOTES

1. ALL WORK PERFORMED ON ANY TRAFFIC SIGNAL COMPONENT MUST BE UNDER THE DIRECT ON-SITE SUPERVISION OF AN IMSA CERTIFIED TECHNICIAN. THE LEVEL OF CERTIFICATION REQUIRED SHALL BE LEVEL II.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TO VERIFY IN THE FIELD THE LOCATIONS OF THEIR INSTALLATIONS 72 HOURS PRIOR TO CONSTRUCTION.

CALL-BEFORE-YOU-OVERHEAD	1-702-227-2929
CALL-BEFORE-YOU-DIG	1-800-227-2600
STREETLIGHTS	1-702-229-6331
F.A.S.T.	1-702-432-5300

3. ALL TRAFFIC SIGNAL INSTALLATIONS SHALL CONFORM TO THE UNIFORM STANDARD DRAWINGS SPECIFICATIONS AND SPECIAL PROVISIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, VOLUMES I AND II, ADOPTED BY THE REGIONAL TRANSPORTATION COMMISSION APRIL 8, 1992 WITH ALL SUBSEQUENT REVISIONS. BRACKET MOUNTED (SIDE-MOUNTED) VEHICLE SIGNAL ASSEMBLIES WITH 2 OR MORE SIGNAL HEADS SHALL HAVE AN ADDITIONAL ELBOW AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 AND SHOWN AS OPTION B IN UNIFORM STANDARD DRAWING NUMBER 844, AND SHALL HAVE A MENERALLAC SUPPORT AS SHOWN IN UNIFORM STANDARD DRAWING NUMBER 863 IF ONE OF THE SIGNAL HEADS CONTAINS 4 OR MORE SIGNAL MODULES.

4. SERVICE SHALL HAVE 1-60 AMP SINGLE POLE BREAKER FOR SIGNAL, AND ONE 40 AMP SINGLE POLE BREAKERS FOR STREET LIGHTS. SERVICE SHALL BE 200 AMP PADMOUNT AND SHALL HAVE A CAPACITY OF 20 OR 24 CIRCUITS.

5. LINE SIDE OF METER TO BE WIRED WITH THREE #3/0 AWG THW. LOAD SIDE SHALL BE WIRED WITH FOUR #4 AWG THW (2 BLACK, 2 WHITE) AND ONE #8 AWG THW (GREEN).

6. LUMINAIRES ON ALL SIGNAL POLES SHALL BE L.E.D. AS APPROVED BY THE CITY OF LAS VEGAS (CLV). DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS. PRIOR TO ORDERING MATERIALS. INTERSECTION LIGHTING SHALL MEET THE REQUIREMENTS OF UNIFORM STANDARD DRAWING NUMBER 300.S3. EACH LUMINAIRE SHALL HAVE AN INDIVIDUAL 1000 WATT P.E. CONTROL. FOR LUMINAIRES THERE SHALL BE 2(TWO)-#4 AWG THW CONDUCTORS FROM THE SERVICE TO THE CABINET. IN THE CABINET, THE #4 AWG THW CONDUCTORS SHALL BRANCH OFF INTO #10 AWG THW CONDUCTORS INDIVIDUALLY FUSED WITH 10 AMP FUSES. THERE SHALL BE NO SPLICES BETWEEN THE CABINET AND LUMINAIRE FIXTURES.

7. LUMINAIRES SHALL BE MARKED TO INDICATE INSTALLATION ORIENTATION, AND SHALL HAVE EXTERNAL LABELS PER ANSI C136.15 THAT INDICATE WATTAGE AND ARE CLEARLY VISIBLE FROM STREET LEVEL. TRAFFIC SIGNAL LUMINAIRES INSTALLED ADJACENT TO RESIDENTIAL HOUSING SHALL BE INSTALLED WITH MANUFACTURER PROVIDED HOUSE-SIDE SHIELDS.

8. THE INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE WIRED TO THE LUMINAIRES PHOTO CELL FOR CONTROL WITH #10 AWG THW COPPER STRANDED WIRE (TYPICAL). THE SIGN SHALL BE WIRED TO THE LUMINAIRE DIRECTLY ABOVE IT. IN THE EVENT THERE IS NO LUMINAIRE ON THE TRAFFIC SIGNAL POLE, THE 1000 WATT P.E. CONTROL SHALL BE MOUNTED ON THE POLE CAP. ALL NEW ILLUMINATED STREET NAME SIGNS SHALL HAVE LIGHT EMITTING DIODE (LED) LAMPS PER SECTION 623 T.02.16 OF THE SPECIAL PROVISIONS.

9. CHECK CONDUIT AND CABLE SCHEDULE FOR CONDUIT, CABLE, AND WIRE SIZE. VERIFY ALL EXISTING CONDUIT RUNS.

10. ALL PULLBOXES SHALL BE IN ACCORDANCE WITH UNIFORM STANDARD DRAWINGS NO. 705, NO. 706, AND NO. 707.

11. TRAFFIC SIGNAL CABLE SHALL BE 15 OR 25 CONDUCTOR #14 AWG SOLID (TYPICAL) CABLE AND SHALL CONFORM TO IMSA SPEC. NO. 20-1.

12. PEDESTRIAN PUSH BUTTONS SHALL BE AUDIBLE TACTILE "POLARA iNAVIGATOR" TYPE (2-WIRE PEDESTRIAN PUSHBUTTON SYSTEM WITH IN2 PUSH BUTTON STATIONS AND SHELF-MOUNT BIU CONTROL UNIT WITH SDLC CABLE) IN ACCORDANCE WITH CITY OF LAS VEGAS SPECIAL PROVISIONS AND SECTION 623 OF THE CCA USS. PUSH BUTTON SIGNS SHALL BE R10-3e PER MUTCD, 2009 EDITION, WITH FULL MOUNTING BRACKETS, AS MODIFIED BY THE MANUFACTURER TO FIT ON A 9"X12" SIGN, AND SHALL BE PORCELAIN-ENAMELED METAL. ALL PUSH BUTTONS TO BE MOUNTED 42" ABOVE SIDEWALK. THE MAXIMUM HORIZONTAL REACH DISTANCE IS TO BE 10". SIDEWALK RAMPS WILL BE ACCORDING TO U.S.D. No. 235 (1-4) LATEST EDITION. WHEN AN EXISTING SIGNAL WITH EXISTING AUDIBLE-TACILE PUSH BUTTONS IS MODIFIED, THE CONTRACTOR SHALL VERIFY NEW PEDESTRIAN PUSH BUTTONS OR CABINET EQUIPMENT MATCHES THE MANUFACTURE AND MODEL OF ANY EXISTING EQUIPMENT SCHEDULED TO REMAIN, TO PROVIDE A FULLY FUNCTIONING SYSTEM. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABINET EQUIPMENT, INCLUDING THE PEDESTRIAN PUSH BUTTON CONTROL UNIT, INTERFACE PANEL AND ANY REQUIRED HARNESSES, TO PROVIDE A FULLY FUNCTIONING SYSTEM.

13. THE ROUTING AND TERMINATION OF CONDUITS AND THE PLACING OF POLES AND CABINETS SHALL BE AS INDICATED ON THE PLANS. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.

14. MAST ARM R10-12 SIGNS TO BE ADJACENT (NO GAP) TO THE M-5 SIGNAL HEAD. WHERE FLASHING YELLOW ARROW LEFT TURN SIGNALS ARE USED, A MAST ARM R10-12F "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE MOUNTED ADJACENT TO THE M-4 SIGNAL HEAD.

15. TRAFFIC SIGNAL CABINET SHALL BE A TYPE VIII CABINET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THIS IS COMMONLY REFERRED TO AS AN "R" CABINET. THE CABINET SHALL CONFORM TO THE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS AND THE CITY OF LAS VEGAS SPECIAL PROVISIONS. INSTALL CABINET NEAR THE R.O.W. LINE OR AS SHOWN ON THE DRAWINGS. THE TRAFFIC SIGNAL CONTROLLER CABINET, SHALL BE EQUIPPED WITH 16 LOAD BAY POSITIONS,SHALL BE A 48 DETECTOR CHANNEL R CABINET AND SHALL INCLUDE TWO (2) RACK-MOUNTED, 12 SLOT, LOOP DETECTION RACKS, WITH 2 DETECTOR LOOP CHANNELS PER SLOT FULLY WIRED SO THAT ALL CHANNELS ARE USABLE AND 4 CHANNEL SLOTS THAT CAN ACCOMMODATE VIDEO DETECTION CARDS. THE CABINET SHALL CONTAIN A 764 OPTICOM PHASE SELECTOR IN A 760 RACK, WITH A 768 AUXILIARY INTERFACE PANEL MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES.

16. THE CONTRACTOR SHALL SUPPLY A MALFUNCTION MANAGEMENT UNIT (MMU) TO THE CITY OF LAS VEGAS TRAFFIC SIGNAL REPAIR SHOP A MINIMUM OF FOURTEEN DAYS PRIOR TO SIGNAL TURN-ON OR PRIOR TO CONVERTING TO A NEW PHASING SCHEME, FOR TESTING AND PROGRAMMING PURPOSES. THE MMU SHALL BE A MODEL MMU-1600GE AS MANUFACTURED BY RENO A&E, OR APPROVED EQUAL. THE CONTRACTOR SHALL DELIVER THE MMU TO AND PICKUP THE CONTROLLER AT 2985 RONEMUS DRIVE. CONTRACTOR SHALL NOTIFY TRAFFIC ENGINEERING FIELD OPERATIONS (702-229-6331) SEVEN DAYS PRIOR TO PICK UP. THE CITY, AT ITS DISCRETION, MAY PROVIDE A DIFFERENT MODEL MMU FOR INITIAL TURN-ON, IN WHICH CASE CITY PERSONNEL WILL SWAP THE MMU AFTER THE PROJECT IS ACCEPTED.

17. CONTRACTOR SHALL POTHOLE SIGNAL POLE LOCATIONS PRIOR TO ORDERING OF POLES.

18. ALL MAST ARMS TO BE HOT-DIP GALVANIZED BY THE MANUFACTURER THE MAST ARM IS TO BE FABRICATED WITH END TENON ONLY. THE END TENON SHALL BE FACTORY INSTALLED AND THE REMAINING TENONS SHALL BE FABRICATED IN THE FIELD AT THE LOCATION SHOWN ON THE PLANS OR AS DIRECTED BY THE TRAFFIC ENGINEER AND/OR HIS AUTHORIZED REPRESENTATIVE. FOR TENON FABRICATION DETAILS SEE CLARK COUNTY AREA U.S.D. NO. 808 SHEET 2. ALL WELDING SHALL CONFORM TO AWS D 2.0, "SPECIFICATION FOR WELDED HIGHWAYS AND RAILWAY BRIDGES," AND TO ANY ADDITIONAL REQUIREMENTS OF SECTION 623 OF THE SPECIFICATIONS. ALL EXPOSED WELDS, SHALL BE PAINTED AS PROVIDED FOR REPAIRING DAMAGED GALVANIZED SURFACES.

19. ALL VEHICLE AND PEDESTRIAN SIGNAL INDICATIONS SHALL HAVE LIGHT EMITTING DIODE (LED) TYPE INDICATIONS, IN CONFORMANCE TO CITY OF LAS VEGAS SPECIAL PROVISIONS AND TO SECTION 623 OF THE CCA USS. ALL PEDESTRIAN SIGNAL FACES SHALL PROVIDE "WALKING PERSON", "HAND", AND "COUNTDOWN" MESSAGES AS PROVIDED BY DURALIGHT MODEL #JXM-400-VIEIL OR DIALIGHT MODEL #430-6479-001X, OR APPROVED EQUAL. THE "COUNTDOWN" MESSAGE SHALL NOT FLASH. WHERE EXISTING SIGNALS ARE MODIFIED, THE CONTRACTOR SHALL VERIFY THAT LED PEDESTRIAN INDICATIONS FOR A SPECIFIC PHASE ARE OF THE SAME MANUFACTURE SO THAT THEY FUNCTION CORRECTLY, OR SHALL REPLACE ALL COUNTDOWN PEDESTRIAN INDICATIONS FOR THAT PHASE.

CLV TRAFFIC SIGNAL NOTES - CONTINUED

20. VIDEO DETECTION SYSTEMS SHALL BE TS2 COMPATIBLE AND SHALL INPUT DETECTOR CALLS TO THE CONTROLLER THROUGH AN SDLC CABLE. SYSTEMS WILL BE EITHER ITERIS EDGE 2-1IN PROCESSORS WITH VRACK5-PS, EDGE2-TS2-IM-PAK AND EDGECONNECT PAK, (IP ADDRESSABLE); PEEK VIDEOTRAK IQ (WITH ETHERNET PORT AND SDLC); ECONOLITE AUTOSCOPE VISION SYSTEM WITH COMM MANAGER AND MINI DETECTION PROGRAMMING KIT MOUNTED IN THE CABINET; OR TRAFICON VIP WITH VIEWCOM (IP ADDRESSABLE) AND PIM (SDLC). WHEN VIDEO DETECTION IS SPECIFIED ON THE TRAFFIC SIGNAL PLANS. ALL VIDEO DETECTION SYSTEMS WILL BE STAND ALONE SYSTEMS TO INCLUDE ALL NECESSARY EQUIPMENT TO PROGRAM THE VIDEO DETECTION SYSTEM. A PROGRAMMING "MOUSE", KEYPAD OR LAPTOP COMPUTER (IF REQUIRED FOR PROGRAMMING THE VIDEO DETECTION SYSTEM) AND APPROPRIATE SOFTWARE WILL BE SUPPLIED WITH EACH VIDEO SYSTEM. PERSONAL COMPUTERS (PCs) MAY NOT BE SUBSTITUTED FOR LAPTOPS. A VIDEO MONITOR (COLOR FLAT SCREEN) 9" TO 13" WILL BE SUPPLIED WITH EACH VIDEO DETECTION SYSTEM. EACH VIDEO CAMERA WILL HAVE POWER AND VIDEO CABLE DIRECTLY FROM THE CABINET. COAXIAL CABLE WILL BE TYPE 8281 (SOLID CENTER CONDUCTOR). CAMERAS THAT USE A PREFABRICATED CABLE INTEGRATING POWER AND VIDEO INTO A SINGLE WEATHERPROOF CONNECTOR ARE ACCEPTABLE. "BNC" ARE THE ONLY ACCEPTABLE TERMINATION OF COAXIAL CABLES. CAMERAS WILL BE MOUNTED PER MANUFACTURER'S RECOMMENDATIONS AND PER CLV TRAFFIC ENGINEER APPROVAL. VIDEO CAMERAS SHALL BE COLOR AND SHALL BE MOUNTED ON A MINIMUM 6 FOOT RISER ON THE SIGNAL MAST ARM WITH EXTENSION BRACKETS (TYPE AG-0175-74-62 OR EQUIVALENT). THE LOCATION OF THE CAMERA ON THE MAST ARM SHALL BE APPROVED BY THE TEFO TRAFFIC SIGNAL SUPERVISOR. A VIDEO FILTER (CX06-BNYC OR EQUIVALENT) WILL BE INSTALLED IN THE SIGNAL CABINET FOR EACH CAMERA VIDEO INPUT WHEN COAX IS USED. VIDEO DETECTION PROCESSORS AND COMMUNICATIONS CARDS SHALL BE PROVIDED WITH THE LATEST VERSIONS OF THE MANUFACTURER'S SOFTWARE. THE CONTRACTOR SHALL AIM CAMERAS AND PROGRAM AND CONFIGURE THE VIDEO DETECTION PROCESSORS TO PROVIDE A FULLY FUNCTIONING SYSTEM.

21. WHERE NEW LOOPS WILL BE OVERLAID WITH NEW PAVEMENT, LOOP DETECTORS SHALL BE PREFORMED LOOPS AS MANUFACTURED BY RENO A & E LOOP SYSTEMS AND ALL LOOPS SHALL BE INSTALLED IN THE ROADWAY PRIOR TO PLACEMENT OF THE FINAL PAVEMENT LIFT. WHERE NEW LOOPS ARE INSTALLED THAT ARE NOT OVERLAID WITH NEW PAVEMENT, LOOPS SHALL BE CABLE-IN-DUCT PER SECTION 623 T.02.04.C OF THE CITY OF LAS VEGAS SPECIAL PROVISIONS. LOOP LEAD-IN CABLE SHALL BE 6-PAIR 18 AWG MULTIPLE CONDUCTOR CABLE AS SPECIFIED IN SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS. ALL WIRING HARNESSES, RACK POSITIONS, AND LOOP LEAD-IN CABLE SHALL BE CLEARLY MARKED AS TO THE APPROPRIATE PHASE AND LETTER DESIGNATION TO WHICH IT BELONGS AS SHOWN ON THE TRAFFIC SIGNAL PLANS. LOOPS SHALL BE LOCATED AS SHOWN ON THE TRAFFIC SIGNAL PLANS AND APPROVED BY THE CLV TRAFFIC ENGINEERING DIVISION PRIOR TO INSTALLATION. REFER TO SECTION 623T.02.04 OF THE CLV SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

22. OPTICAL PREEMPTION UNITS WILL BE GLOBAL TRAFFIC TECHNOLOGIES (ENCODING CAPABLE), MODEL 764 OPTICOM PHASE SELECTOR INSTALLED IN A MODEL 760 RACK WITH A MODEL 768 AUXILIARY INTERFACE PANEL (AIP) MOUNTED IN THE CABINET AND FULLY WIRED FOR GREEN SENSE CAPABILITIES. OPTICAL SENSORS WILL BE MODEL 721 WITH ONE DETECTOR PER DIRECTION, UNLESS SHOWN OTHERWISE IN THE PLANS, AND WILL BE INTERFACED TO THE TRAFFIC SIGNAL CONTROLLER CABINET WITH M-138 CABLE. THE SOUTHBOUND OPTICOM DETECTOR SHALL BE WIRED TO INPUT PREEMPTS ON CHANNEL 1 IN THE PHASE SELECTOR, EASTBOUND ON CHANNEL 2, NORTHBOUND ON CHANNEL 3, AND WESTBOUND ON CHANNEL 4, UNLESS VARIATIONS ARE APPROVED BY THE TRAFFIC SIGNAL SUPERVISOR. WHEN 764 PHASE SELECTORS ARE ADDED TO A CABINET WITHOUT A 768 AIP, THE CONTRACTOR SHALL INSTALL AND WIRE A NEW 768 AIP.

23. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY CONSTRUCTION, TEMPORARY REMOVAL, OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE CITY.

24. INTERCONNECT CABLE SHALL BE AS SHOWN IN THE WIRE SCHEDULE.

25. THE CONTRACTOR SHALL INSTALL CROSSWALKS, STOP BARS, STRIPING AND SIGNS AS IDENTIFIED ON THE PLANS.

26. WHERE THE PLANS CALL FOR REMOVAL AND SALVAGE OF EXISTING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL CALL 702-229-6331 TO SPEAK TO A TRAFFIC FIELD SUPERVISOR TO ARRANGE FOR DELIVERY TIMES AND LOCATIONS.

27. THE CONTRACTOR SHALL MAINTAIN EXISTING SIGNALS THROUGH THE LIFE OF THE PROJECT PER SECTION 623 G.03.01N OF THE CLV SPECIAL PROVISIONS.

REVISED MARCH 2, 2020

SOUTHERN NEVADA - SOUTHWEST GAS CORPORATION GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020

2. MINIMAL HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.
   a) ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES

3. FOR VALVE ADJUSTMENT CONTACT 702-528-7881 14 DAYS PRIOR TO CONSTRUCTION

4. IN THE EVENT OF A NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099

ALL CIVIL IMPROVEMENT PLANS MUST INCLUDE SOUTHWEST GAS CORPORATION HIGH PRESSURE NOTES ON THE NOTES SHEET AND ALL SHEETS DEPICTING HIGH PRESSURE NATURAL GAS MAINS AS INDICATED BELOW:

CAUTION: HIGH PRESSURE GAS!!
CALL SOUTHWEST GAS AT 702-278-8451 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

APPROVED FOR CONSTRUCTION		
KURK DORMAN	UID#19KAD435	03/17/2021
SOUTHWEST GAS CORPORATION		DATE

LEGEND

- CONTOUR - MAJOR (2020)
- CONTOUR - MINOR (2010)
- CENTERLINE
- PROFILE GRADE LINE
- EDGE OF PAVEMENT
- FLOWLINE
- BACK OF CURB
- SIDEWALK
- RIGHT OF WAY LINE
- PROPERTY LINE
- PATCH / SAWCUT LINE
- GRADE BREAK
- CONDUIT - FIBER (NEW)
- CONDUIT - FIBER (EX.)
- CONDUIT - PHONE (NEW)
- CONDUIT - PHONE (EX.)
- CONDUIT - POWER (NEW)
- CONDUIT - POWER (EX.)
- CONDUIT - SGLT (NEW)
- CONDUIT - SGLT (EX.)
- CONDUIT - CATV (NEW)
- CONDUIT - CATV (EX.)
- CONDUIT - TSIG (NEW)
- CONDUIT - TSIG (EX.)
- PIPE - IRRIGATION (NEW) SMALLER THAN 12"
- PIPE - IRRIGATION (EX.) SMALLER THAN 12"
- PIPE - NATURAL GAS (NEW) SMALLER THAN 12"
- PIPE - NATURAL GAS (EX.) SMALLER THAN 12"
- PIPE - NATURAL GAS (NEW) 12" AND LARGER
- PIPE - NATURAL GAS (EX.) 12" AND LARGER
- PIPE - SANITARY SEWER (NEW) SMALLER THAN 12"
- PIPE - SANITARY SEWER (EX.) SMALLER THAN 12"
- PIPE - SANITARY SEWER (NEW)12" AND LARGER
- PIPE - SANITARY SEWER (EX.)12" AND LARGER
- PIPE - STORM (NEW) SMALLER THAN 12"
- PIPE - STORM (EX.) SMALLER THAN 12"
- PIPE - STORM (NEW) 12" AND LARGER
- PIPE - STORM (EX.) 12" AND LARGER
- PIPE - WATER (NEW) SMALLER THAN 12"
- PIPE - WATER (EX.) SMALLER THAN 12"
- PIPE - WATER (NEW) 12" AND LARGER
- PIPE - WATER (EX.) 12" AND LARGER

- LIMITS OF DEMO/REMOVAL
- ASPHALT
- CONCRETE
- LANDSCAPING
- ADA RAMP
- EXISTING BUILDING
- AUTHORIZATION TO ENTER PROPERTY (AEP)

ALIGNMENT ABBREVIATIONS

"PIN"	PINTO LANE
"SHA"	SHADOW LANE
"DES"	DESERT LANE

SYMBOLS

- ANTENNA / TOWER
- AREA LIGHT
- BENCHMARK
- BLOW OFF
- BUS SHELTER
- CABINET
- FIRE HYDRANT
- HC PARKING SYMBOL
- IRR. CONTROLER
- LOOP DETECTOR
- MANHOLE
- METER (BOX)
- METER (PEDISTAL)
- PALM TREE
- PULLBOX
- SHRUB
- SIDEWALK RAMP
- SIGN
- STREET LIGHT
- STORM DRAIN INLET
- SURVEY MONUMENT
- TRAFFIC PED. SIGNAL
- TRAFFIC SIGNAL POLE
- TREE
- UTILITY POLE
- UTILITY POLE GUY WIRE
- VALVE
- VAULT
- WHEEL STOP

ABBREVIATIONS

@	AT	L	LENGTH
AB	ABANDONED	LF	LINEAL FOOT, LINEAR FEET
AC	ASPHALTIC CONCRETE	LT	LEFT
ACP	ASBESTOS CEMENT PIPE	LVVWD	LAS VEGAS VALLEY WATER DISTRICT
AEP	AUTHORIZATION TO ENTER PROPERTY	MH	MANHOLE
APPROX	APPROXIMATE	MLCP	MULTI-LAYER COMPOSITE PIPE
AVAR	AIR VALVE ASSEMBLY	MTR	METER
B/C, BC	BACK OF CURB	NDOT	NEVADA DEPT OF TRANSPORTATION
BCR	BACK OF CURB RADIUS	NTS	NOT TO SCALE
BM	BENCHMARK	NVE	NV ENERGY
BOT	BOTTOM	OHP	OVERHEAD POWER LINE
BR	BACK OF RAMP	OHU	OVERHEAD UTILITIES
C & G	CURB AND GUTTER	PB	PULL BOX
CALC'D	CALCULATED	PC	POINT OF CURVATURE
CATV, TV	CABLE TELEVISION	P.I.P.	PROTECT IN PLACE
CC	CLARK COUNTY	PP	POWER POLE
CCPW	CLARK COUNTY PUBLIC WORKS	PRC	POINT OF REVERSE CURVE
CIPP	CURED-IN-PLACE PIPE	PT	POINT OF TANGENCY
℄, CL	CENTERLINE	℞ , PL	PROPERTY LINE
CLSM	CONTROLLED LOW STRENGTH MATERIAL	R RADIUS	RT RIGHT
CLV	CITY OF LAS VEGAS	R/W, R.O.W.	RIGHT OF WAY
CMP	CORRUGATED METAL PIPE	SCCP	STEEL CYLINDER CONCRETE PIPE
CONC	CONCRETE		
COND	CONDUCTOR	SD	STORM DRAIN
CPM	CAPITAL PROJECT MANAGEMENT	SF	SQUARE FOOT
		SP	SPECIAL PROVISIONS
D, DIA	DIAMETER	SS	SANITARY SEWER
DCSWCS	DESIGN & CONSTRUCTION STDS FOR WASTEWATER COLLECTION SYSTEMS	STA.	STATION
		STD	STANDARD
		STL	STREET LIGHT
DG	DECOMPOSED GRANITE	SV	SPRINKLER VALVE
DIP	DUCTILE IRON PIPE	S/W	SIDEWALK
D/W	DRIVEWAY	SWG	SOUTHWEST GAS
DWG	DRAWING	SY	SQUARE YARD
ECR	END OF CURB RETURN (AT B/C)	T, TEL	TELEPHONE
ELEC, E	ELECTRIC	TC	TOP OF CURB
ELEV	ELEVATION	TCE	TEMP. CONSTRUCTION EASEMENT
EOP, EP	EDGE OF PAVEMENT		
EX.	EXISTING	TEMP.	TEMPORARY
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION (INTERCONNECT)	TRANS.	TRANSITION
		TRC	TOP OF RAMP CURB
		TS	TRAFFIC SIGNAL
FC	FACE OF CURB	TYP.	TYPICAL
FD	FOUND	UDACS	UNIFORM DESIGN & CONSTRUCTION STDS FOR POTABLE WATER DISTRIBUTION SYSTEMS
FG	FINISHED GRADE		
FH, HYD	FIRE HYDRANT		
FT	FOOT, FEET		
G	GAS	USD	UNIFORM STANDARD DRAWING
GM	GAS METER	USS	UNIFORM STD SPECIFICATIONS
GV	GAS VALVE	W	WATER LINE
GW	GUY WIRE	WC	WHEEL CHAIR
HP	HIGH PRESSURE	WM	WATER METER
INT	INTERSECTION	WV	WATER VALVE
IRR	IRRIGATION	W/	WITH
		Δ	INCLUDED DELTA ANGLE

CALL BEFORE CONSTRUCTION ⚠

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6331
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

REVISIONS | NO. | DATE | SHEET

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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-8-2021

TITLE: PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET: LEGEND, SYMBOLS & ABBREV.

PREPARED FOR: CITY OF LAS VEGAS

DATE:	FEBRUARY 2021		
DESIGNED BY:	BG		
DRAWN BY:	BG		
CHECKED BY:	MM		
BID #	21.MWA832	SUBMITTAL STAGE:	100% FINAL
H #	69743		

ISSUED FOR CONSTRUCTION

SHEET
GN-02
3 OF 42
DRAWING NO.
107V8023-1

H:\TB467 PRODUCTION\PHASE 1\#69743\GN-1.DWG
3/9/21

DEMOLITION AND REMOVAL NOTES

1	SAWCUT AND MATCH EXISTING
2	REMOVE EXISTING PAVEMENT
3	REMOVE CURB AND GUTTER
4	REMOVE CONCRETE SIDEWALK
5	REMOVE CONCRETE CROSS GUTTER
6	REMOVE STREETLIGHT (SEE TL SHEETS FOR PROPOSED STREETLIGHT LOCATIONS)
7	REMOVE AND SALVAGE SIGN (SEE SIGNAGE AND MARKING PLAN FOR PROPOSED LOCATIONS)
11	RELOCATE WATER METER (SEE WATER PLAN FOR PROPOSED METER LOCATIONS)
12	REMOVE SIDEWALK UNDERDRAIN (SEE ROADWAY PLANS FOR PROPOSED SIDEWALK UNDERDRAIN LOCATIONS)
14	ADJUST/RELOCATE WATER VALVE PER UDACS PLATE NO. 39 (SEE WATER PLAN FOR PROPOSED VALVE LOCATIONS)
15	RELOCATE FIRE HYDRANT (SEE WATER PLAN FOR PROPOSED FIRE HYDRANT LOCATIONS)
17	POWER POLE/POWER POLE GUY, TO BE REMOVED BY NV ENERGY
19	RELOCATE/ADJUST STREET LIGHT PULL BOX (SEE ROADWAY PLANS FOR PROPOSED PULL BOX LOCATIONS)
20	RELOCATE PRIVATE SIGN. SEE RD SHEETS FOR NEW LOCATION
29	EXISTING GAS VALVE TO BE ADJUSTED TO GRADE BY SWG
31	REMOVE AND SALVAGE BUS CANOPY AND BENCH
32	ADJUST STORM DRAIN MANHOLE TO GRADE
34	REMOVE ASPHALT SIDEWALK
35	REMOVE CURB
37	REMOVE TREE
42	EXISTING CATV VAULT TO BE RELOCATED BY COX
46	ADJUST EXISTING SEWER MANHOLE TO GRADE PER SD-5 OF DSCWCS
47	REPLACE EXISTING SEWER MANHOLE, PER SD-1 OR SD-7 OF DSCWCS. SEE ROADWAY PLANS.
49	ADJUST WATER METER TO GRADE
50	EXISTING WATER LINE TO BE ABANDONED IN PLACE
52	EXISTING WATER LINE TO BE REMOVED
53	EXISTING STORM DRAIN TO BE REMOVED
54	EXISTING STORM DRAIN MANHOLE TO BE REMOVED
57	REMOVE AND RELOCATE SIGN. SEE SM SHEETS FOR NEW LOCATION
59	EXISTING CATV VAULT, TO BE ADJUSTED TO GRADE BY COX.
60	EXISTING COX POWER SUPPLY, TO BE RELOCATED BY COX.
61	EXISTING CONDUIT, TO BE REMOVED/RELOCATED BY CENTURYLINK.
64	REMOVE CONCRETE DRIVEWAY
65	REMOVE MEDIAN
66	TELEPHONE MANHOLE TO BE ADJUSTED TO GRADE BY CENTURYLINK
67	REMOVE FENCE
P	PROTECT IN PLACE

ROADWAY CONSTRUCTION NOTES

1	SAWCUT AND MATCH EXISTING AC OR CONCRETE
2	CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTION).
3	CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216).
4	CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234).
5	CONSTRUCT CONCRETE CROSS GUTTER AND/OR SPANDREL (USDCCA STD. DWG. NO. 228).
6	CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #2 ON SHEET DT-01.
7	CONSTRUCT SIDEWALK UNDERDRAIN (USDCCA STD. DWG. NO. 236). SEE GR-SHEETS FOR LOCATION INFORMATION.
8	CONSTRUCT CASE II SIDEWALK RAMP (USDCCA STD. DWG. NO. 235).
9	CONSTRUCT MODIFIED SIDEWALK RAMP PER DETAIL #1 ON SHEET DT-01.
10	CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #1 ON SHEET DT-01.
16	RECONSTRUCT 48" SSMH PER SD-1 OR SD-7 OF DSCWCS.
18	RELOCATED CATV VAULT
19	RELOCATED TELEPHONE MANHOLE
21	RELOCATED TRAFFIC SIGNAL PULL BOX
23	INSTALL NEW CLV FIBER PULL BOX
24	INSTALL NEW FAST FIBER PULL BOX
26	CONSTRUCT BUS STOP SHELTER PAD PER DETAIL #4 ON SHEET DT-01.
28	TACK ON MEDIAN PER STD DWG NO. 220 AND 220.1.S1.
29	CONSTRUCT "U" CHANNEL PER DETAIL #7 ON SHEET DT-01.
P	PROTECT IN PLACE

GRADING NOTES

1	SAWCUT AND MATCH EXISTING AC OR CONCRETE
2	CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS ON SHEET TY-01).
3	CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216).
4	CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234).
5	CONSTRUCT CONCRETE CROSS GUTTER AND/OR SPANDREL (USDCCA STD. DWG. NO. 228).
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8	CONSTRUCT CASE II SIDEWALK RAMP (USDCCA STD. DWG. NO. 235).
9	CONSTRUCT MODIFIED SIDEWALK RAMP PER DETAIL #1 ON SHEET DT-01.
10	CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #1 ON SHEET DT-01.
13	CONSTRUCT ON-SITE PAVEMENT SECTION PER DETAIL ON SHEETS TY-01 AND TY-02.
14	CONSTRUCT BUS STOP SHELTER PAD PER DETAIL #4 ON SHEET DT-01.
16	CONSTRUCT "U" CHANNEL PER DETAIL #7 ON SHEET DT-01.
18	REMOVE AND REPLACE LANDSCAPE INCLUDING IRRIGATION.
19	CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #2 ON SHEET DT-01.

WATER PLAN NOTES:

1	EXISTING WATER LINE TO BE ABANDONED
16	RELOCATED FIRE HYDRANT PER UDACS PLATE NO. 40
18	EXISTING WATER MAIN, P.I.P.
20	RELOCATED WATER METER PER UDACS PLATE NO. 4
	RE-CONNECT TO EXISTING ONSITE WATER
23	INSTALL NEW RPPA PER UDACS PLATE NO. 8. CONTRACTOR TO ENSURE RPPA ENCLOSURE DOES NOT ENCROACH INTO PEDESTRIAN WALKWAY.
24	CONSTRUCT 48" SEWER MANHOLE PER DCSWCS SD-1
26	EX. SEWER LATERAL. PROTECT IN PLACE PER DCSWCS SD-18
27	EX. SEWER LATERAL. PROTECT IN PLACE PER DCSWCS SD-19

SIGNAGE AND MARKING NOTES

1	INSTALL TYPE I CENTERLINE PER CCAUSD NO.244 (RAISED PAVEMENT MARKERS).
2	INSTALL 4" SOLID WHITE PARKING LINE (POLYUREA).
7	CONSTRUCT "NO PARKING" FIRE LANE BY PAINTING CURBS WITH INDUSTRIAL STRENGTH ENAMEL (SAFETY RED) PER SOUTHERN NEVADA FIRE CODE 507.5.7.2.
9	PAINT CURB WITH INDUSTRIAL STRENGTH ENAMEL (SAFETY RED)
10	INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREET, OR FIRE LINES.
11	PAINT MEDIAN WITH REFLECTIVE YELLOW MEDIAN PAINT
E	EXISTING SIGN TO REMAIN.
RR	REMOVE & RESET EXISTING SIGN
N	INSTALL NEW SIGN.
R	REMOVE & SALVAGE EXISTING SIGN.

APPROVED FOR CONSTRUCTION

Jason N. Thudory

Las Vegas Valley Water District Planning and Engineering Services

Project No. 138967 First Approved Date: 4/5/2021

NO.	DATE	SHEET	REVISIONS

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CIVIL
No. 18493
3-8-2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
H # 69743
SUBMITTAL STAGE: **100% FINAL**

DATE: FEBRUARY 2021
DESIGNED BY: BG
DRAWN BY: BG
CHECKED BY: MM

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

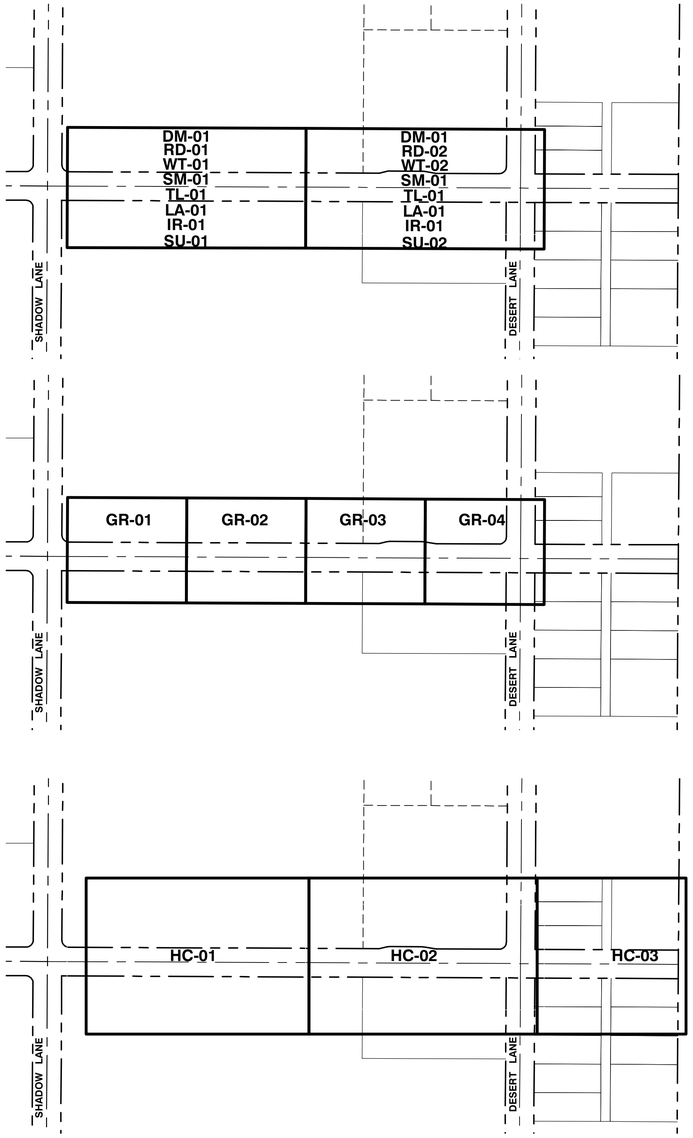
SHEET
CONSTRUCTION NOTES

SHEET
GN-03
4 OF 42

DRAWING NO.
107V8023-1

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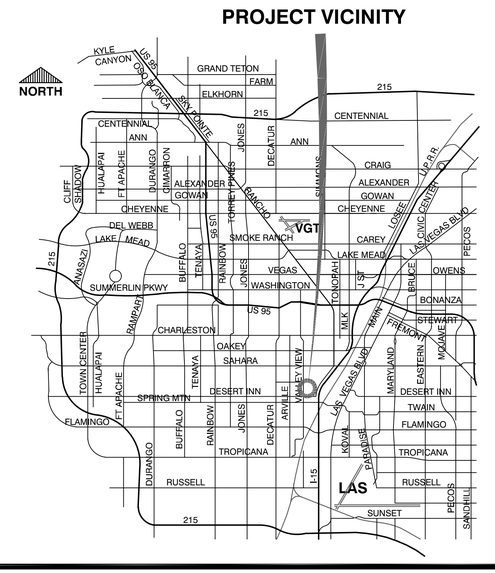
KEY MAPS

SHEET INDEX

No.	SHEET	TITLE
1	CV	COVER SHEET
2	GN-01	GENERAL NOTES
3	GN-02	LEGEND, SYMBOLS & ABBREVIATIONS
4	GN-03	CONSTRUCTION NOTES
5	GN-04	SHEET INDEX, VICINITY & KEY MAP
6-8	HC-01 - HC-03	HORIZONTAL CONTROL PLAN
9	DM-01	DEMOLITION AND REMOVAL PLAN
10	TY-01	TYPICAL SECTIONS
11-12	RD-01 - RD-02	ROADWAY PLAN, PROFILE & DETAILS
13-14	DT-01 - DT-02	CONSTRUCTION DETAILS
15-18	GR-01 - GR-04	GRADING PLAN
19-21	WT-01 - WT-03	WATER PLAN, PROFILE & DETAILS
22	WT-04	PINTO LANE WATER LINE RELOCATION
23	WT-05	WATER PLAN IRRIGATION METER
24	SM-01	SIGNAGE AND MARKING PLAN
25-26	SU-01 - SU-02	SUBSURFACE UTILITY PLAN
27-28	SD-01 - SD-02	STORM DRAIN PLAN AND PROFILE
29	SD-03	STORM DRAIN LATERAL PROFILES
30	SD-04	STORM DRAIN DETAILS
31	SD-05	STORM DRAIN PLAN AND PROFILE
32	TL-01	LIGHTING PLANS
33-34	TL-02 - TL-03	ELECTRICAL DIAGRAMS
35	TL-04	PANEL SCHEDULES
36	LA-00	PLANTING LEGEND & NOTES
37	LA-01	PLANTING PLAN
38	LA-02	PLANTING DETAILS
39	LA-03	PLANTING DETAILS
40	IR-00	IRRIGATION LEGEND & NOTES
41	IR-01	IRRIGATION PLAN
42	IR-02	IRRIGATION DETAILS

VICINITY MAP

NOT TO SCALE



			REVISIONS
			SHEET
			DATE
			NO.

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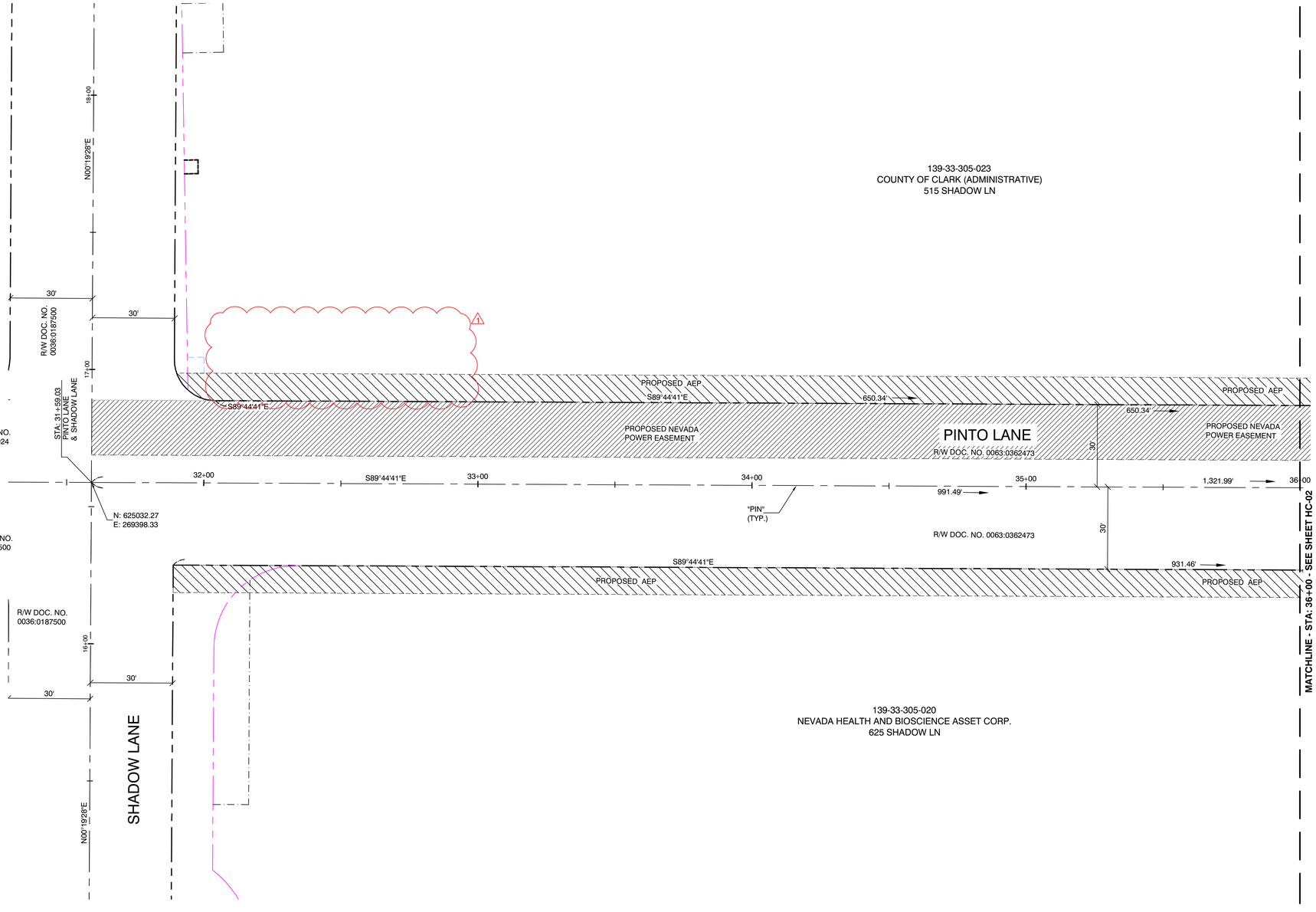
TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
SHEET INDEX, VICINITY & KEY MAP

SHEET
GN-04
5 OF 42

DRAWING NO.
107V8023-1

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BASIS OF BEARINGS AND COORDINATES:

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)

DATUM (REFERENCE FRAME): NAD 83 (2011) EPOCH 2010.00
SYSTEM:NEVADA COORDINATE REFERENCE SYSTEM (NCRS)

ZONE: LAS VEGAS

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORGIN):36°15'00"N LONGITUDE OF CENTRAL MERIDIAN:114°58'00"W NORTHING AT GRID ORIGIN: 200,000.000 M (656,166.6667 FTUS)
EASTING AT CENTRAL MERIDIAN: 100,000.000 M (328,083.3333 FTUS) SCALE FACTOR ON CENTRAL MERIDIAN; 1.0001 (EXACT)

NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE. 3.

PROJECT BENCHMARK:

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) 2008 ADJUSTMENT

CITY OF LAS VEGAS BENCHMARK: 8LV0133NE6
NAVD88 ELEVATION: 620.001 METERS (2034.12 FEET)

RIVET AND PLATE IN TOP OF CURB AT SOUTHWEST CORNER OF SYMPHONY PARK AVENUE AND GRAND CENTRAL PARKWAY.

LEGEND

- CENTERLINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- PROPOSED RIGHT-OF-WAY ACQUISITION
- PROPOSED AREA OF AUTHORIZATION TO ENTER PROPOERTY (AEP)
- PROPOSED NEVADA POWER EASEMENT
- PROPOSED NEVADA POWER EASEMENT

REFERENCE MAPS:

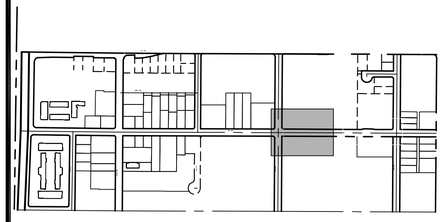
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FILE 120 PARCEL MAPS, PAGE 81

NORTH

GRAPHIC SCALE
20 0 10 20 40
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	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929



KEY MAP

NO.	DATE	SHEET	REVISIONS
1	5/26/21		REVISED PER ADDENDUM 1

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RAYMOND A. JOHNSON
EXP 06/30/21
18983
03/08/2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832	DATE: FEBRUARY 2021		
H # 69743	DESIGNED BY: BG	DRAWN BY: WLB	CHECKED BY: TJ
SUBMITTAL STAGE: 100% FINAL			

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PHASE 1
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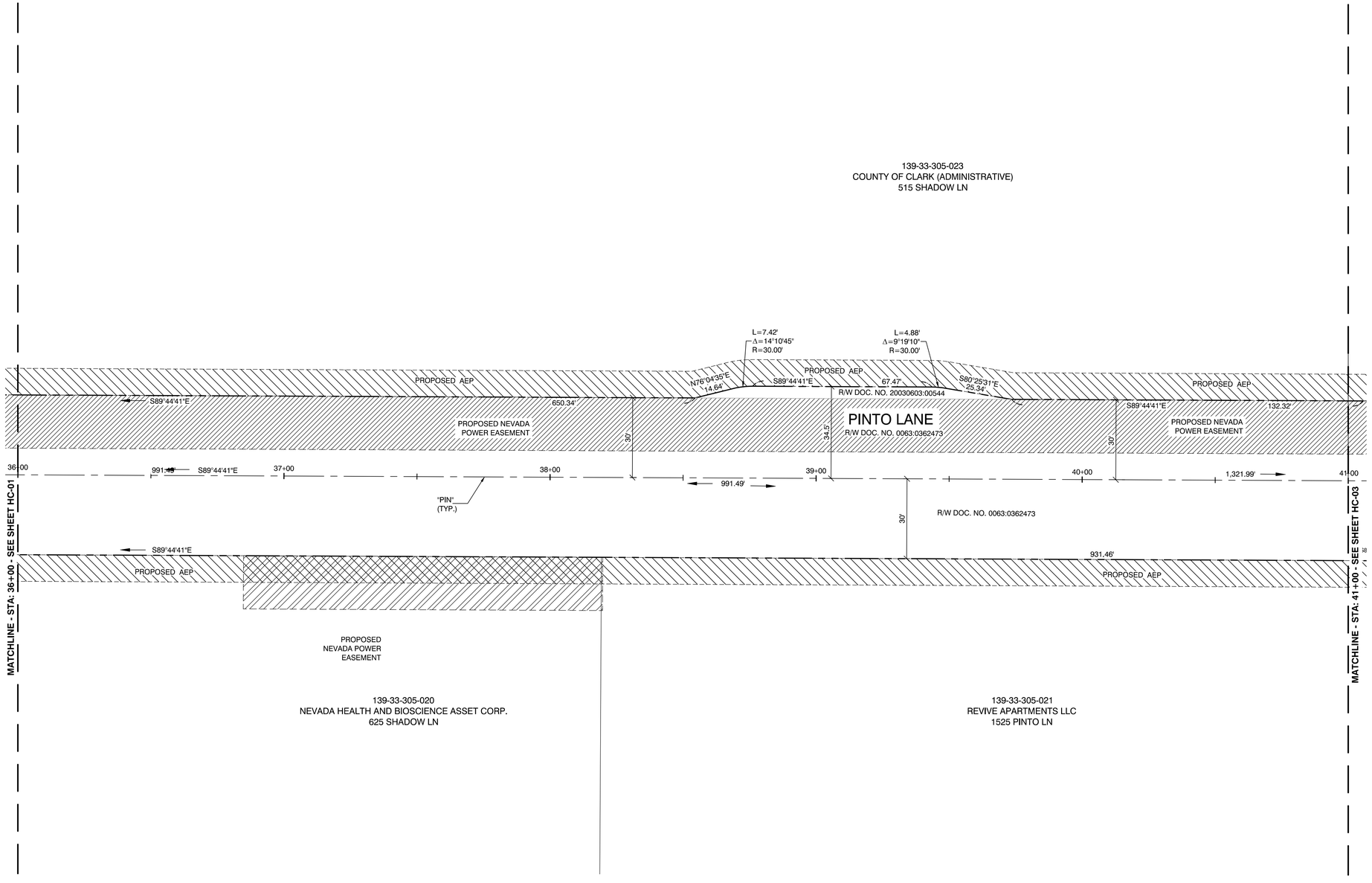
SHEET
HORIZONTAL CONTROL PLAN

SHEET
HC-01
6 OF 42

DRAWING NO.
107V8023-1

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5/26/21



BASIS OF BEARINGS AND COORDINATES:

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS ZONE, NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

LINEAR UNIT: US SURVEY FOOT (FTUS)

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RIVET AND PLATE IN TOP OF CURB AT SOUTHWEST CORNER OF SYMPHONY PARK AVENUE AND GRAND CENTRAL PARKWAY.

CONSTRUCTION NOTE

1. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED, AND SHALL BE DONE ONLY BY A NEVADA PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS - CLARK COUNTY AREA. A RECORD-OF-SURVEY FOR REPLACEMENT OF PERMANENT SURVEY MONUMENTS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL PRIOR TO RECORDING. THE RECORD-OF-SURVEY SHALL BE PREPARED IN ACCORDANCE WITH NEVADA REVISED STATUTES 625.350.

LEGEND

- CENTERLINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- PROPOSED AREA OF AUTHORIZATION TO ENTER PROPOERTY (AEP)
- PROPOSED NEVADA POWER EASEMENT
- PROPOSED NEVADA POWER EASEMENT
- FOUND MONUMENT AS DESCRIBED

REFERENCE MAPS:

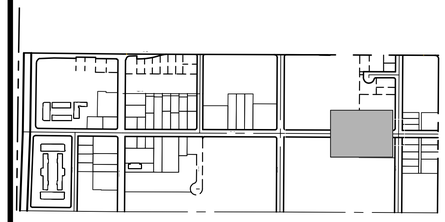
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BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929



KEY MAP

NO.	DATE	SHEET	REVISIONS

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EXP: 06-30-21
No. 18983
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HORIZONTAL CONTROL PLAN

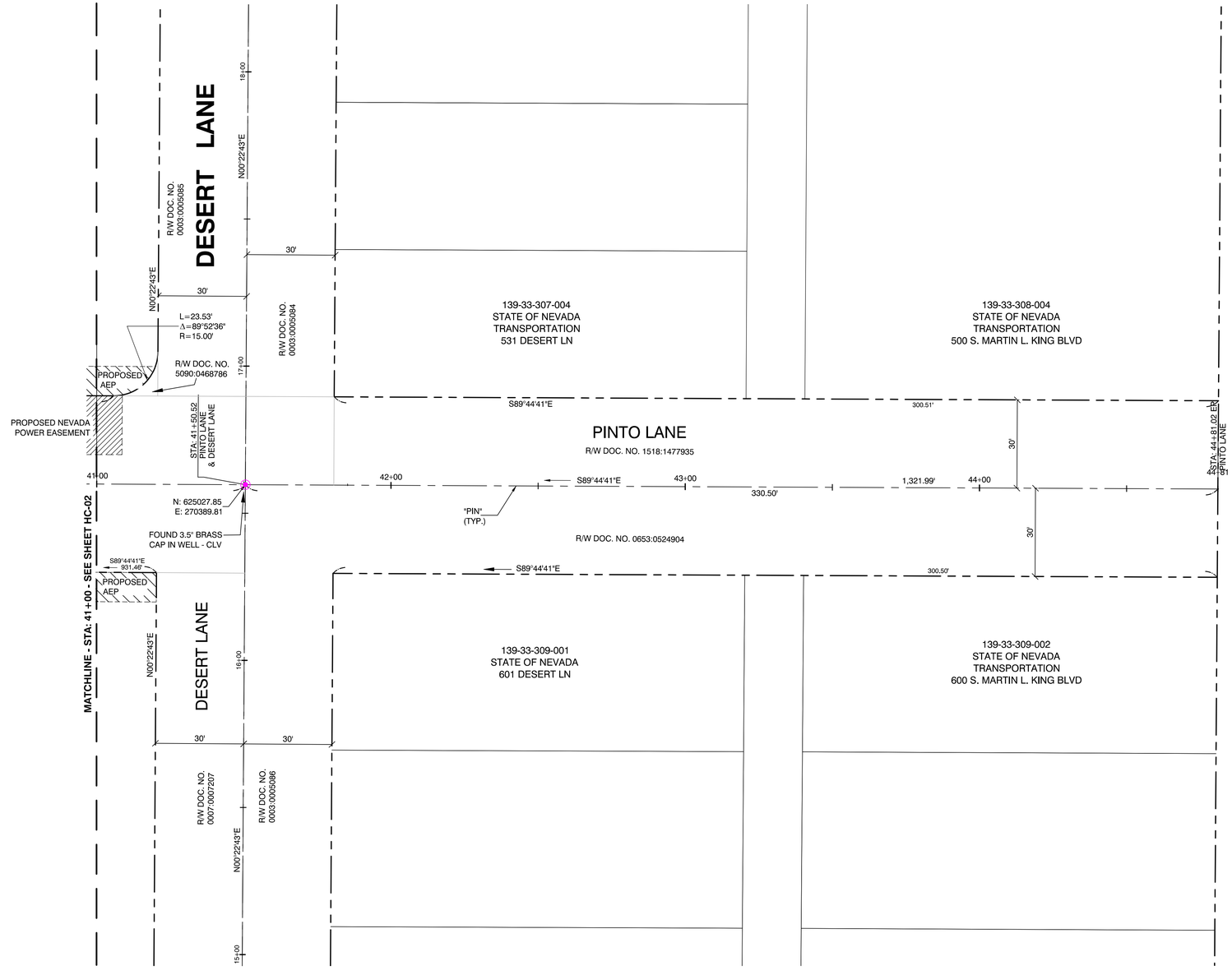
PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
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CHECKED BY: TJ
SUBMITTAL STAGE: 100% FINAL

SHEET
HC-02
7 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

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NORTH

GRAPHIC SCALE

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ZONE: LAS VEGAS

PROJECTION: TRANSVERSE MERCATOR
STANDARD PARALLEL (AND LATITUDE OF GRID ORGIN):36°15'00"N LONGITUDE OF CENTRAL MERIDIAN:114°58'00"W NORTHING AT GRID ORIGIN: 200,000.000 M (656,166.6667 FTUS)
EASTING AT CENTRAL MERIDIAN: 100,000.000 M (328,083.3333 FTUS) SCALE FACTOR ON CENTRAL MERIDIAN; 1.0001 (EXACT)

NOTES:
1. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE PROJECTED (GRID) VALUES BASED ON THE PRECEDING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT PROJECTED (GRID) DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES IN THE PROJECT AREA.
2. GRID BEARINGS SHOWN HEREON (OR IMPLIED BY GRID COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE. 3.

PROJECT BENCHMARK:

PROJECT DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) 2008 ADJUSTMENT

CITY OF LAS VEGAS BENCHMARK: 8LV0133NE6
NAVD88 ELEVATION: 620.001 METERS (2034.12 FEET)

RIVET AND PLATE IN TOP OF CURB AT SOUTHWEST CORNER OF SYMPHONY PARK AVENUE AND GRAND CENTRAL PARKWAY.

LEGEND

——— – ———	CENTERLINE
— – – – —	RIGHT OF WAY LINE
———	PROPERTY LINE
EP	ENDING POINT

REFERENCE MAPS:

FILE 192 OF SURVEYS, PAGE 82
FILE 195 OF SURVEYS, PAGE 95
FILE 196 OF SURVEYS, PAGE 29
FILE 120 PARCEL MAPS, PAGE 81



KEY MAP

NO.	DATE	SHEET	REVISIONS

PREPARED BY
VTN
2727 SOUTH RAINBOW BOULEVARD
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PROFESSIONAL LAND SURVEYOR STATE OF NEVADA
RAYMOND A. JOHNSON
EXP. 06-30-21
18983
03/08/2021

TITLE: PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET: HORIZONTAL CONTROL PLAN

PREPARED FOR: CITY OF LAS VEGAS

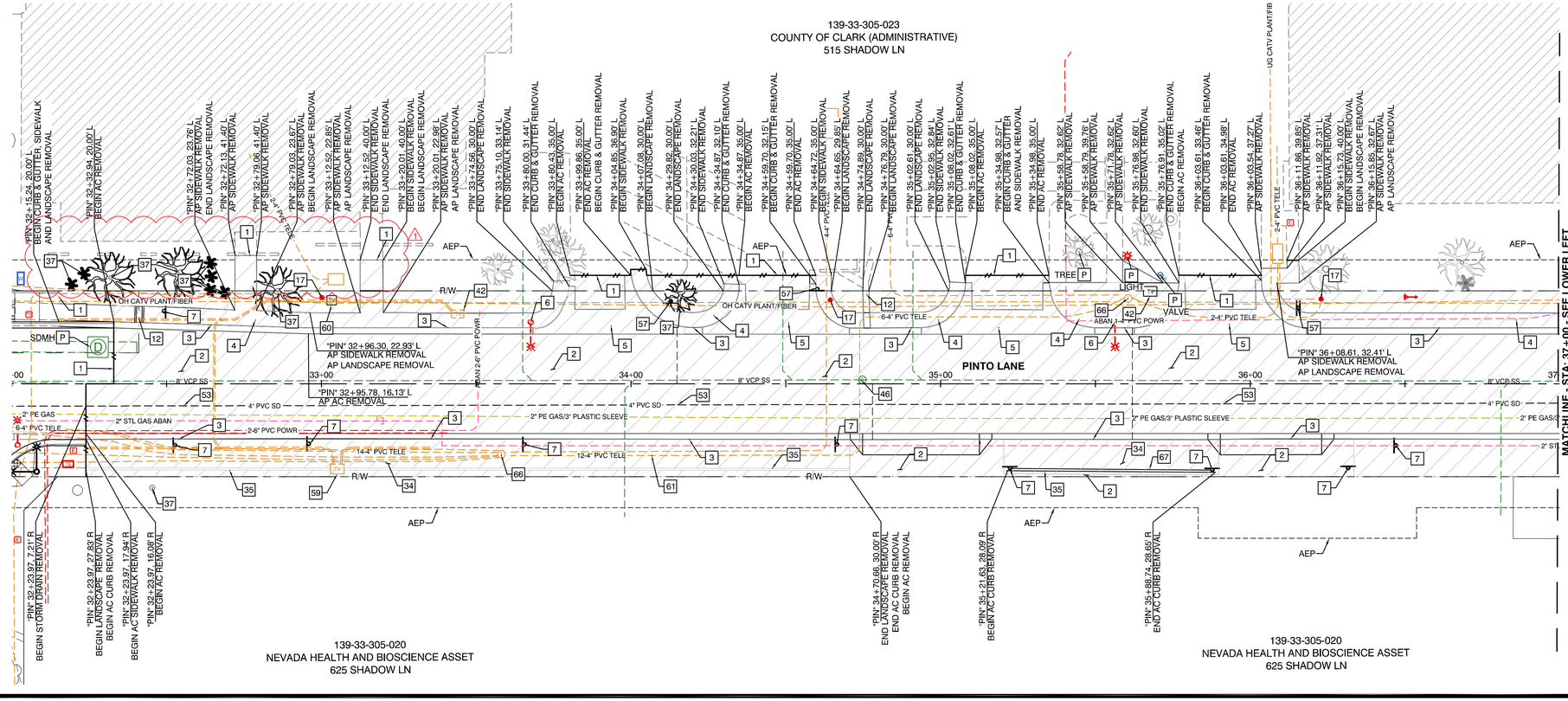
BID # 21.MWA832	DATE: FEBRUARY 2021		
H # 69743	DESIGNED BY: BG	DRAWN BY: WLB	CHECKED BY: TJ
SUBMITTAL STAGE: 100% FINAL			

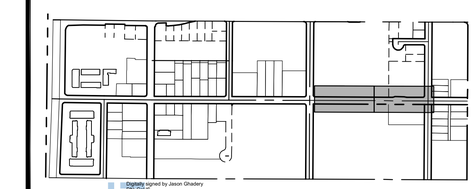
SHEET
HC-03
8 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

H:\78467_PRODUCTION\PHASE 1\H69743HC.DWG
3/8/21





Jason Ghadery

KEY MAP

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1" = 20'

(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

DEMOLITION AND REMOVAL NOTES

1	SAWCUT AND MATCH EXISTING
2	REMOVE EXISTING PAVEMENT
3	REMOVE CURB AND GUTTER
4	REMOVE CONCRETE SIDEWALK
5	REMOVE CONCRETE CROSS GUTTER
6	REMOVE STREETLIGHT (SEE TL SHEETS FOR PROPOSED STREETLIGHT LOCATIONS)
7	REMOVE AND SALVAGE SIGN (SEE SIGNAGE AND MARKING PLAN FOR PROPOSED LOCATIONS)
11	RELOCATE WATER METER (SEE WATER PLAN FOR PROPOSED METER LOCATIONS)
12	REMOVE SIDEWALK UNDERDRAIN (SEE ROADWAY PLANS FOR PROPOSED SIDEWALK UNDERDRAIN LOCATIONS)
14	ADJUST/RELOCATE WATER VALVE PER UDACS PLATE NO. 39 (SEE WATER PLAN FOR PROPOSED VALVE LOCATIONS)
15	RELOCATE FIRE HYDRANT (SEE WATER PLAN FOR PROPOSED FIRE HYDRANT LOCATIONS)
17	POWER POLE/POWER POLE GUY, TO BE REMOVED BY NV ENERGY
19	RELOCATE/ADJUST STREET LIGHT PULL BOX (SEE ROADWAY PLANS FOR PROPOSED PULL BOX LOCATIONS)
29	EXISTING GAS VALVE TO BE ADJUSTED TO GRADE BY SWG
31	REMOVE AND SALVAGE BUS CANOPY AND BENCH
32	ADJUST STORM DRAIN MANHOLE TO GRADE
34	REMOVE ASPHALT SIDEWALK
35	REMOVE CURB
37	REMOVE TREE
42	EXISTING CATV VAULT TO BE RELOCATED BY COX
46	ADJUST EXISTING SEWER MANHOLE TO GRADE PER SD-5 OF DSCWCS
47	REPLACE EXISTING SEWER MANHOLE, PER SD-1 OR SD-7 OF DSCWCS. SEE ROADWAY PLANS.
49	ADJUST WATER METER TO GRADE
50	EXISTING WATER LINE TO BE ABANDONED IN PLACE
52	EXISTING WATER LINE TO BE REMOVED
53	EXISTING STORM DRAIN TO BE REMOVED
54	EXISTING STORM DRAIN MANHOLE TO BE REMOVED
57	REMOVE AND RELOCATE SIGN. SEE SM SHEETS FOR NEW LOCATION
59	EXISTING CATV VAULT, TO BE ADJUSTED TO GRADE BY COX.
60	EXISTING COX POWER SUPPLY, TO BE RELOCATED BY COX.
64	REMOVE CONCRETE DRIVEWAY
65	REMOVE MEDIAN
66	TELEPHONE MANHOLE TO BE ADJUSTED TO GRADE BY CENTURYLINK
67	REMOVE FENCE
P	PROTECT IN PLACE

DEMOLITION AND REMOVAL LEGEND

- LIMITS OF DEMO/REMOVAL
- BUILDING FOOTPRINT
- AEP

LVVWD WATER SERVICE INFORMATION

1	2" METER ACCT. #144614
2	2" METER ACCT. #792500

APPROVED FOR CONSTRUCTION

Jason N. Ghadery 6/15/2021 1

Las Vegas Valley Water District Planning and Engineering Services

Project No. 138967 First Approved Date: 4/5/2021

Digitally signed by Melissa Murphy
DN: C=US, E=melissam@vtnnv.com, O=VTN, OU=VTN, CN=Melissa Murphy
Date: 2021.06.14 13:12:40 -07'00'

Digitally signed by Jason Ghadery
DN: CN=JG
Email=jghadery@lvlwwd.com, O=LVWWD/SNWA, OU=Planning & Engineering Services, CN=Jason Ghadery
Date: 2021.06.15 10:43:55-07'00'

NO.	DATE	REVISIONS
1	5/26/21	REVISED PER ADDENDUM 1
		Jason N. Ghadery LVVWD 6/15/2021

PREPARED BY
2727 SOUTH RAINBOW BOULEVARD
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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L. MURPHY
EXP: 12/31/21
CIVIL
No. 18493
6-1-2021

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
DEMOLITION AND REMOVAL PLAN

PREPARED FOR
CITY OF LAS VEGAS

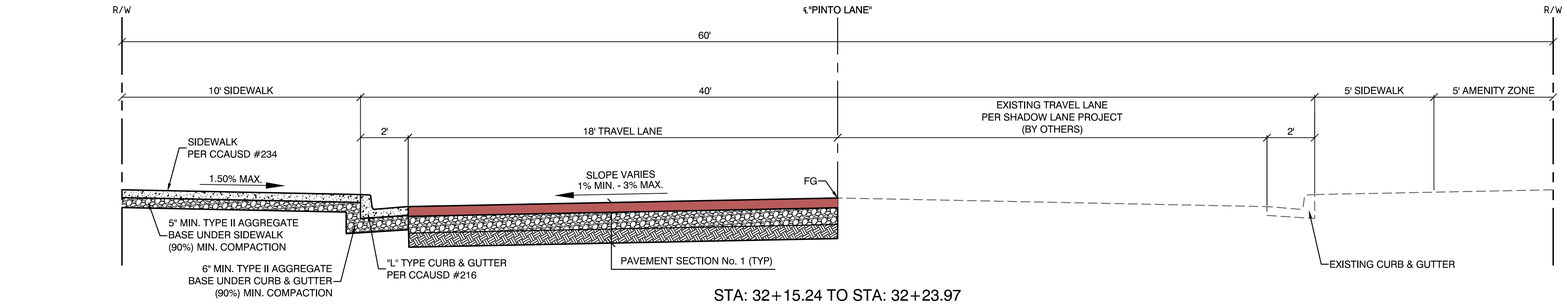
DATE:	FEBRUARY 2021
DESIGNED BY:	BG
DRAWN BY:	BG
CHECKED BY:	MM
BID #	21.MWA832
H #	69743
SUBMITTAL STAGE:	100% FINAL

SHEET
DM-01
9 OF 42

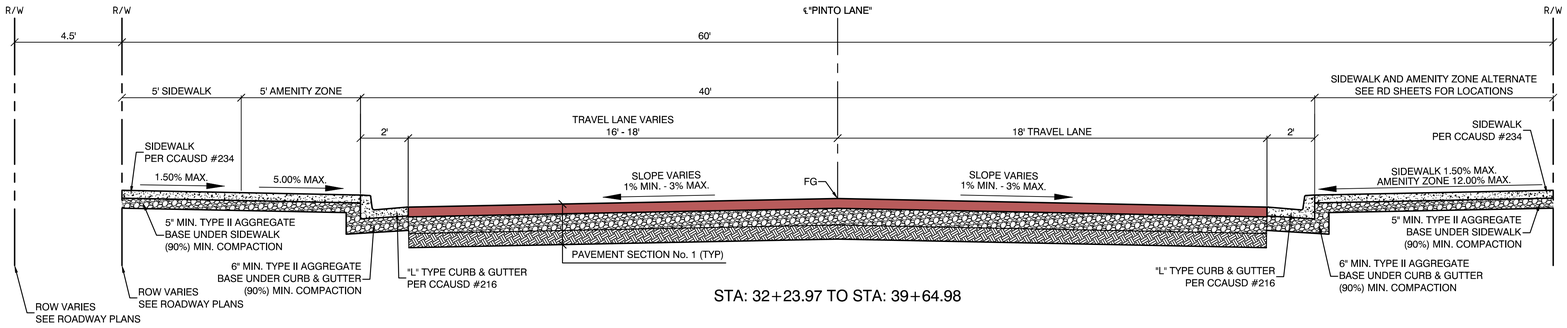
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

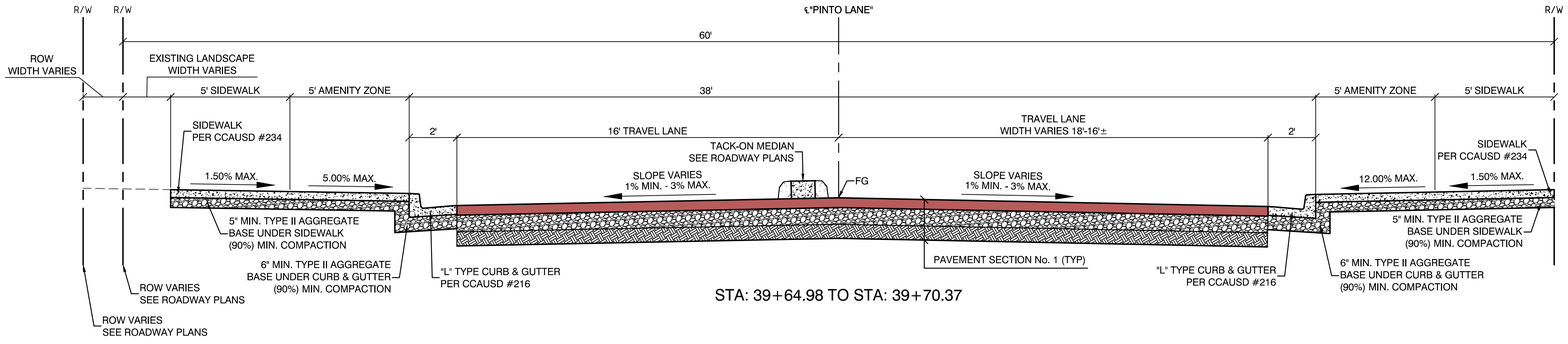
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5/28/21



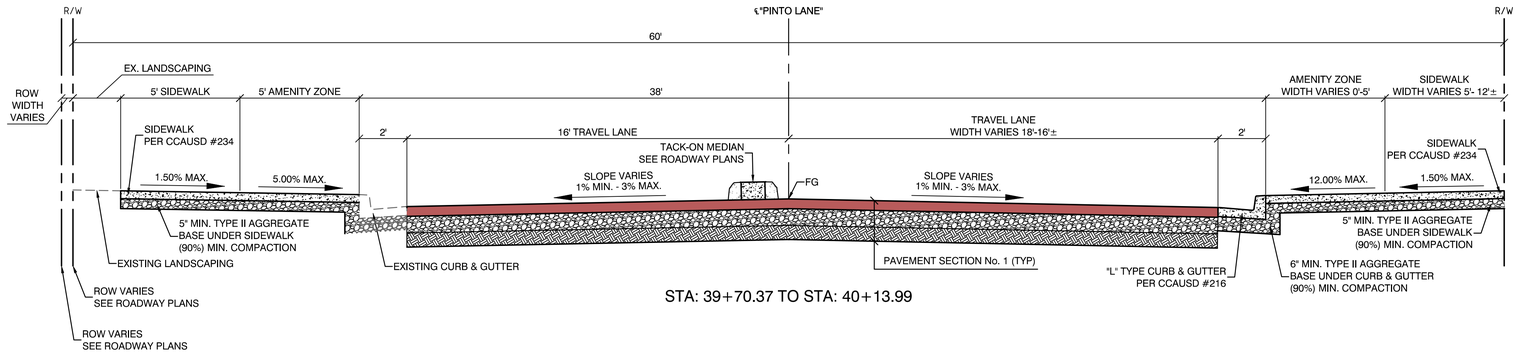
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STA: 32+23.97 TO STA: 39+64.98

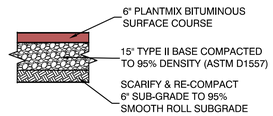


STA: 39+64.98 TO STA: 39+70.37



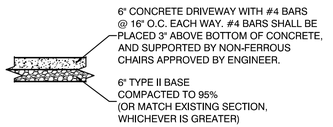
STA: 39+70.37 TO STA: 40+13.99

CALL BEFORE CONSTRUCTION ⚠		
BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929



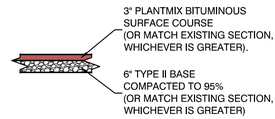
PAVEMENT SECTION NO. 1 DETAIL

N.T.S.



ONSITE CONCRETE DRIVEWAY SECTION DETAIL

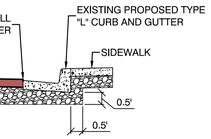
N.T.S.



ONSITE ASPHALT DRIVEWAY SECTION DETAIL

N.T.S.

GAS LINE POTHOLE NOTE
CONTRACTOR TO POTHOLE EXISTING GAS LINES PRIOR TO EXCAVATION TO ENSURE EXISTING FACILITIES DO NOT ENCROACH INTO THE PROPOSED PAVEMENT SECTION



CURB, GUTTER & SIDEWALK DETAIL

N.T.S.

FINAL A.C. PAVEMENT NOTE
FINAL A.C. PAVEMENT SURFACE SHALL BE 1/2" ABOVE LIP OF GUTTER AFTER COMPACTION.

REVISIONS

NO.	DATE	SHEET

PREPARED BY
VTN
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
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FAX (702) 382-2597 WEB SITE
WWW.VTNNV.COM

PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-15-2021

TITLE: PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET: TYPICAL SECTIONS

PREPARED FOR
CITY OF LAS VEGAS

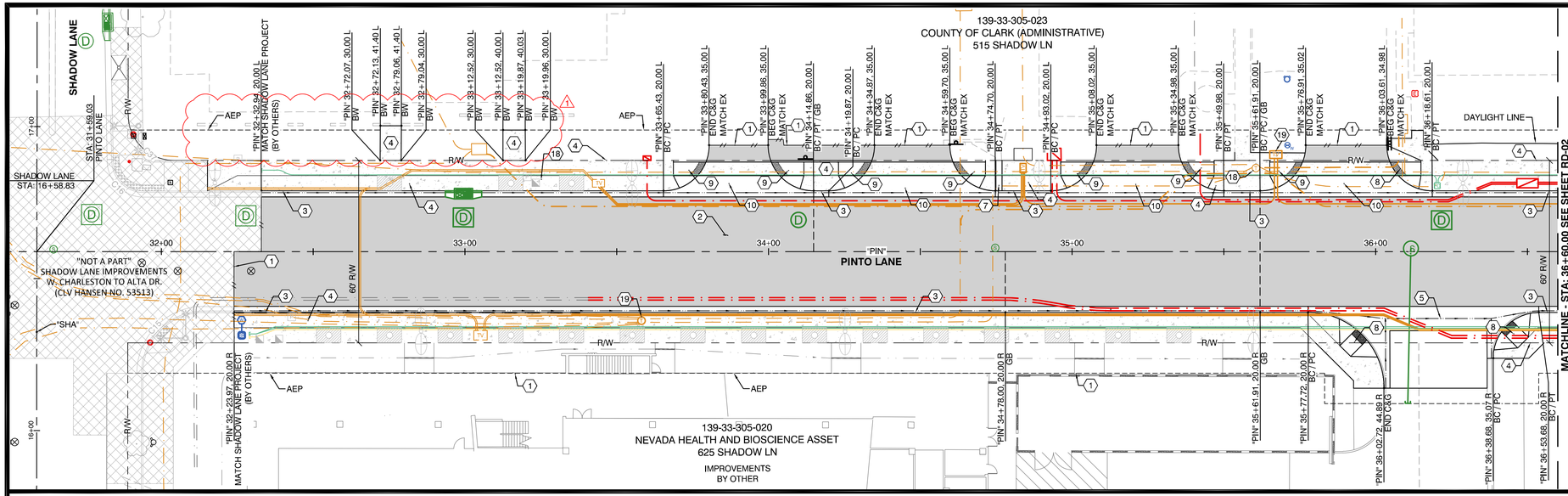
BID # 21.MWA832	DATE: FEBRUARY 2021		
H # 69743	DESIGNED BY: BG	DRAWN BY: BG	CHECKED BY: MM
SUBMITTAL STAGE: 100% FINAL			

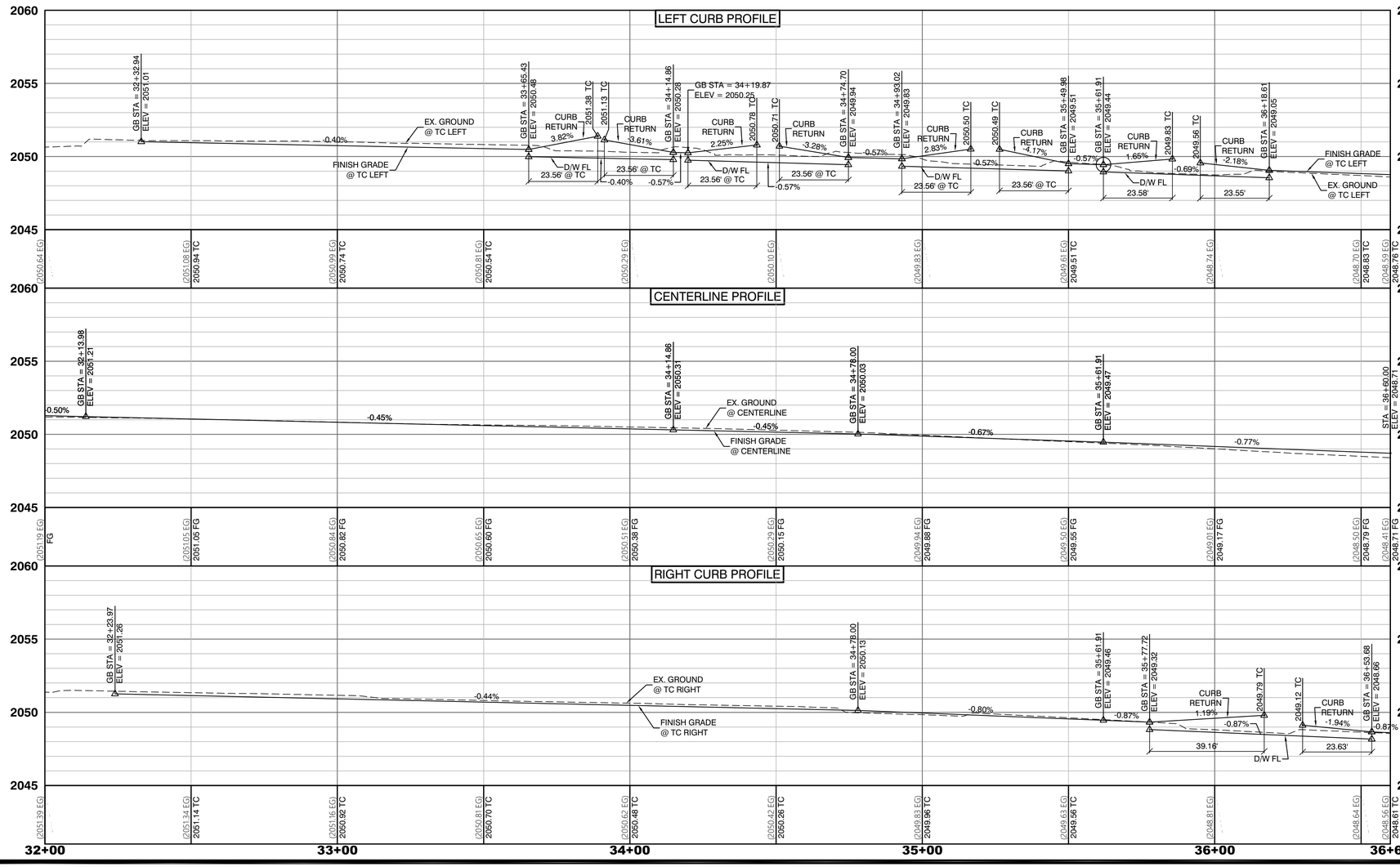
ISSUED FOR CONSTRUCTION

SHEET
TY-01
10 OF 42

DRAWING NO.
107V8023-1

3/5/21 H:\78467_PRODUCTION\PHASE 1\69743\TY-1.DWG





GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1" = 20'

(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

ROADWAY CONSTRUCTION NOTES

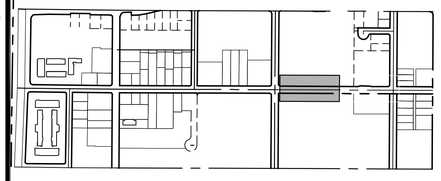
1. SAWCUT AND MATCH EXISTING AC OR CONCRETE
2. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTION).
3. CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216).
4. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234).
5. CONSTRUCT CONCRETE CROSS GUTTER AND/OR SPANDREL (USDCCA STD. DWG. NO. 228).
7. CONSTRUCT SIDEWALK UNDERDRAIN (USDCCA STD. DWG. NO. 236). SEE GR-SHEETS FOR LOCATION INFORMATION.
8. CONSTRUCT CASE II SIDEWALK RAMP (USDCCA STD. DWG. NO. 235).
9. CONSTRUCT MODIFIED SIDEWALK RAMP PER DETAIL #1 ON SHEET DT-01.
10. CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #1 ON SHEET DT-01.
18. RELOCATED CATV VAULT
19. RELOCATED TELEPHONE MANHOLE

LEGEND

- ASPHALT
- CONCRETE
- ADA RAMP
- BUILDING FOOTPRINT
- AEP

DETAILED GRADING NOTE

SEE GR SHEETS FOR DETAILED GRADING



KEY MAP

APPROVED FOR CONSTRUCTION
Jason N. Ghadery 6/15/2021 1
Las Vegas Valley Water District Planning and Engineering Services
Project No. 138967 First Approved Date: 4/5/2021

NO.	DATE	SHEET	REVISIONS
1	5/26/21		REVISED PER ADDENDUM 1
			LVVWD 6/15/2021

Jason N. Ghadery

PREPARED BY
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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L. MURPHY
EXP: 12/31/21
CIVIL
No. 18493
6-14-2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832	DATE: FEBRUARY 2021		
H # 69743	DESIGNED BY: BP	DRAWN BY: BP	CHECKED BY: MM
SUBMITTAL STAGE: 100% FINAL			

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

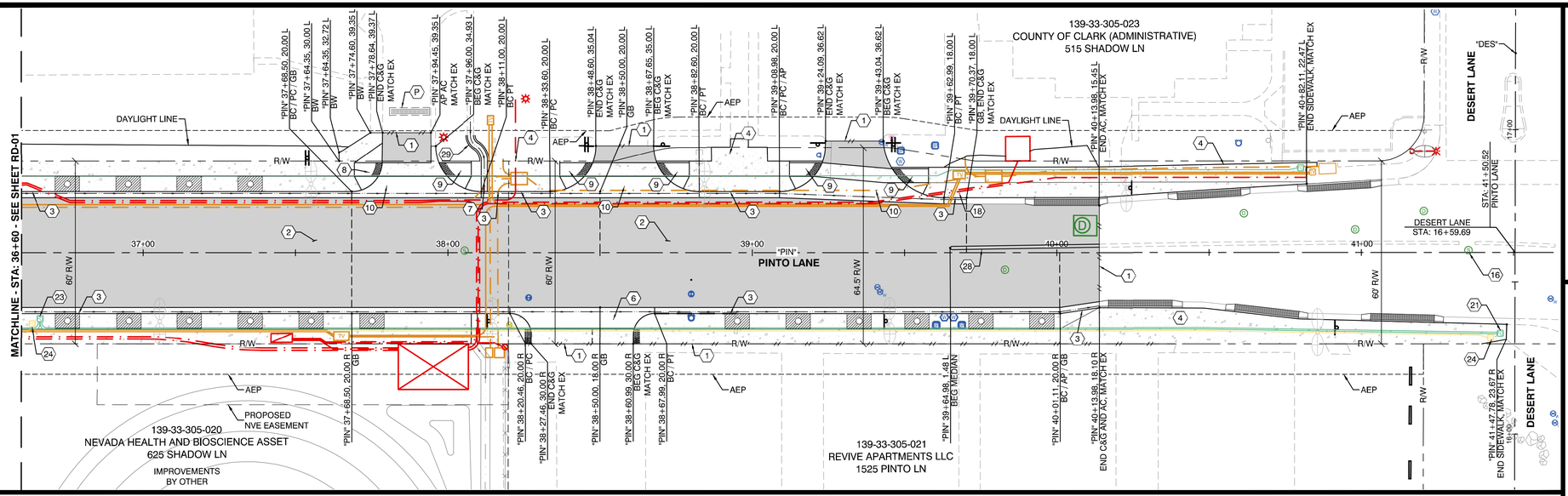
SHEET
ROADWAY PLAN
STA: 32+00.00 TO STA: 36+60

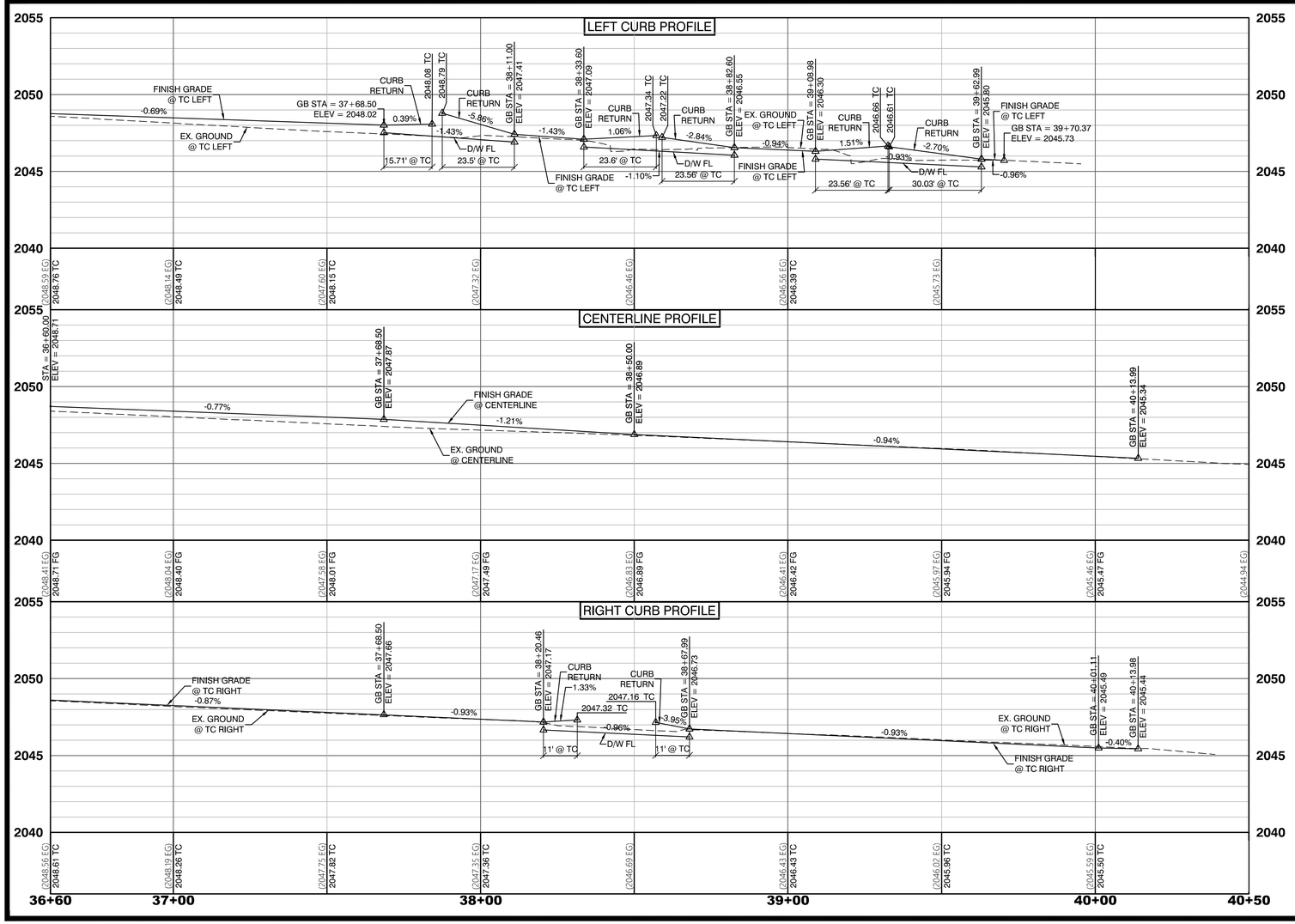
SHEET
RD-01
11 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

H:\78467.PROJECTION\PHASE 1\H78467-SRD-1.DWG
6/8/21





GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1" = 20'

(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

ROADWAY CONSTRUCTION NOTES

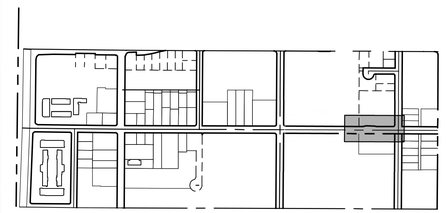
1. SAWCUT AND MATCH EXISTING AC OR CONCRETE
2. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTION).
3. CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216).
4. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234).
6. CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #2 ON SHEET DT-01.
7. CONSTRUCT SIDEWALK UNDERDRAIN (USDCCA STD. DWG. NO. 236). SEE GR-SHEETS FOR LOCATION INFORMATION.
8. CONSTRUCT CASE II SIDEWALK RAMP (USDCCA STD. DWG. NO. 235).
9. CONSTRUCT MODIFIED SIDEWALK RAMP PER DETAIL #1 ON SHEET DT-01.
10. CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #1 ON SHEET DT-01.
16. RECONSTRUCT 48" SSMH PER SD-1 OR SD-7 OF DSCWCS.
18. RELOCATED CATV VAULT
21. RELOCATED TRAFFIC SIGNAL PULL BOX
23. INSTALL NEW CLV FIBER PULL BOX
24. INSTALL NEW FAST FIBER PULL BOX
28. TACK ON MEDIAN PER STD DWG NO. 220 AND 220.1.S1.
29. CONSTRUCT "U" CHANNEL PER DETAIL #7 ON SHEET DT-01.
P. PROTECT IN PLACE

LEGEND

- ASPHALT
- CONCRETE
- ADA RAMP
- BUILDING FOOTPRINT
- AEP

DETAILED GRADING NOTE

SEE GR SHEETS FOR DETAILED GRADING



KEY MAP

APPROVED FOR CONSTRUCTION

Jason N. Thackery

Las Vegas Valley Water District Planning and Engineering Services

Project No. 138967 First Approved Date: 4/5/2021

NO.	DATE	SHEET	REVISIONS

PREPARED BY
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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-8-2021

PREPARED FOR
CITY OF LAS VEGAS

DATE: FEBRUARY 2021
DESIGNED BY: BP
DRAWN BY: BP
CHECKED BY: MM

BID # 21.MWA832
H # 69743
SUBMITTAL STAGE: 100% FINAL

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

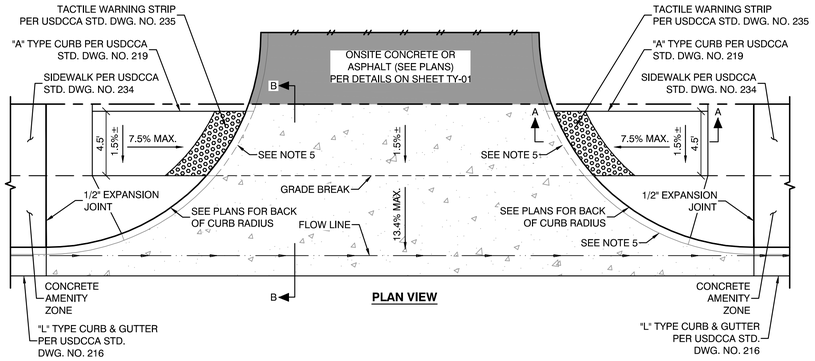
SHEET
ROADWAY PLAN
STA: 36+60.00 TO STA: 40+13.99

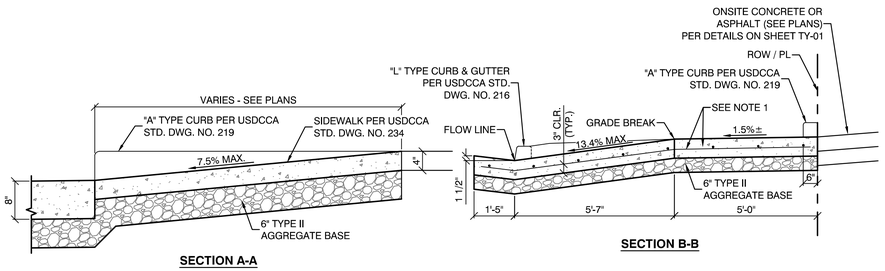
SHEET
RD-02
12 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

H:\78467_PRODUCTION\PHASE 1\467PHASE1.DWG
3/8/21

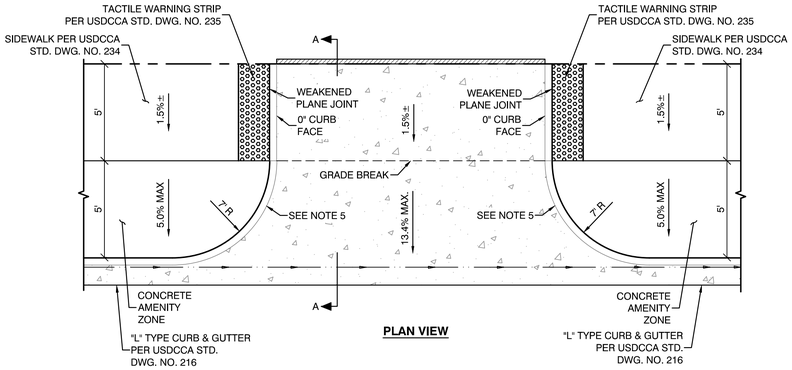


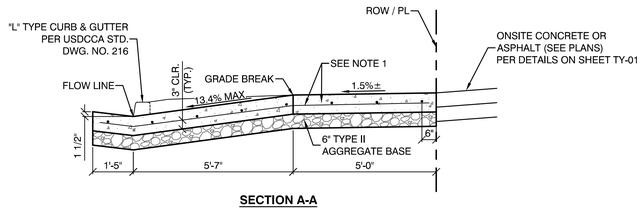


1. NO. 4 BARS AT 16" O.C. BOTH WAYS EXTENDING INTO GUTTER. NO. 4 BARS SHALL BE PLACED 3" ABOVE BOTTOM OF CONCRETE SUPPORTED BY NON-FERROUS CHAIRS APPROVED BY THE ENGINEER.
2. WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER. DRIVEWAY SHALL BE MONOLITHIC TO A.C. LINE.
3. DRIVEWAY THICKNESS SHALL BE 8" MIN.
4. WEAKENED PLANE JOINTS SHALL BE EQUALLY SPACED AT 15' MAX. INTERVALS.
5. CURBS MAY NEED TO BE PAINTED TO AVOID TRIPPING HAZARD.

1 CONCRETE DRIVEWAY WITH MODIFIED SIDEWALK RAMPS

SCALE: N.T.S.

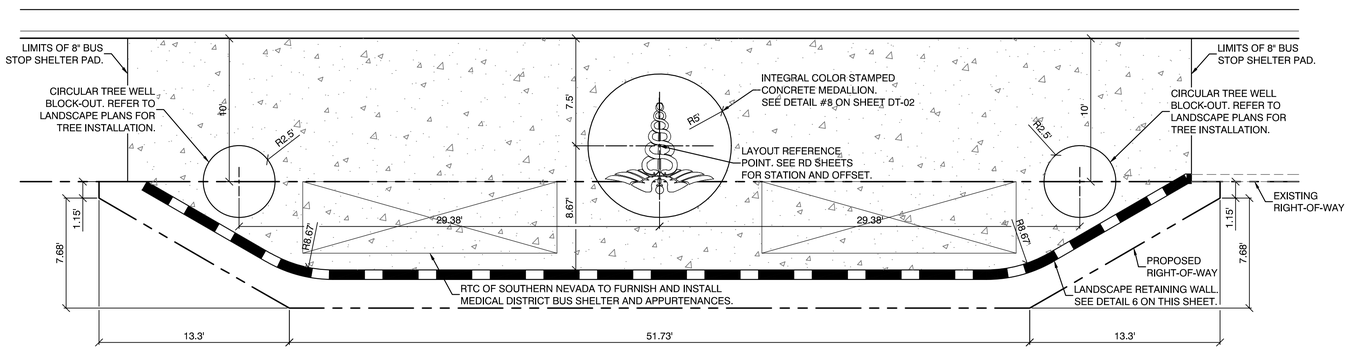




1. NO. 4 BARS AT 16" O.C. BOTH WAYS EXTENDING INTO GUTTER. NO. 4 BARS SHALL BE PLACED 3" ABOVE BOTTOM OF CONCRETE SUPPORTED BY NON-FERROUS CHAIRS APPROVED BY THE ENGINEER.
2. WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXISTS, COMPLETELY REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER. DRIVEWAY SHALL BE MONOLITHIC TO A.C. LINE.
3. DRIVEWAY THICKNESS SHALL BE 8" MIN.
4. WEAKENED PLANE JOINTS SHALL BE EQUALLY SPACED AT 15' MAX. INTERVALS.
5. CURBS MAY NEED TO BE PAINTED TO AVOID TRIPPING HAZARD.

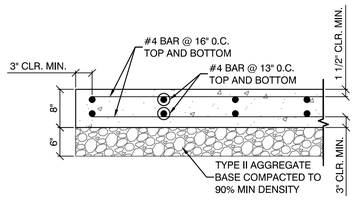
2 CONCRETE DRIVEWAY

SCALE: N.T.S.



4 BUS STOP SHELTER

SCALE: 1" = 5'

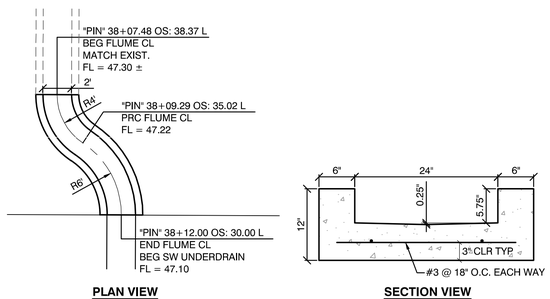


5 BUS STOP SHELTER PAD

SCALE: N.T.S.

6 LANDSCAPE RETAINING WALL

SCALE: N.T.S.



7 "U" CHANNEL

SCALE: N.T.S.

NO.	DATE	SHEET	REVISIONS

PREPARED BY
VTN
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 873-7550
FAX (702) 382-2597 WEB SITE
WWW.VTNNV.COM

PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-8-2021

PREPARED FOR
CITY OF LAS VEGAS

BID #	21.MWA832
H #	69743
SUBMITTAL STAGE:	100% FINAL
DATE:	FEBRUARY 2021
DESIGNED BY:	BG
DRAWN BY:	BG
CHECKED BY:	MM

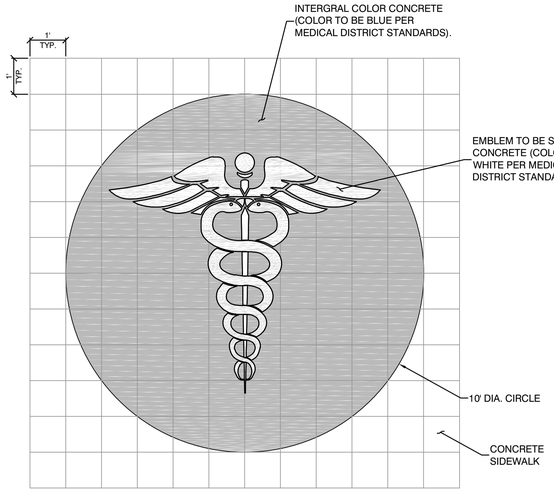
TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
CONSTRUCTION DETAILS

SHEET
DT-01
13 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

3/3/21 H:\78867 PRODUCTION\PHASE 1\MISC\SHT-DT-01.DWG



8 MEDICAL DISTRICT CONCRETE MEDALLION

SCALE: 1" = 2'

NO.	DATE	SHEET	REVISIONS

PREPARED BY
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EXP: 12/31/21
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3-8-2021

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
CONSTRUCTION DETAILS

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
H # 69743
SUBMITTAL STAGE: 100% FINAL

DATE: FEBRUARY 2021
DESIGNED BY: BG
DRAWN BY: BG
CHECKED BY: MM

SHEET
DT-02
14 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

4/2/21 H:\78467 PRODUCTION\PHASE 1\MEP\SBT\-1.DWG

139-33-305-023
COUNTY OF CLARK (ADMINISTRATIVE)
515 SHADOW LN

"PIN" 32+15.24 OS 20.00L
BEG SW AND SW HINGE TRAN
BEG RET CURB @ BSW

"PIN" 32+25.00 OS 25.00L
END SW HINGE TRAN
RET CURB @ BSW GB

"PIN" 32+32.94 OS 20.00L
BEG C&G

"PIN" 32+69.00 OS 30.00L
RET CURB @ BSW GB

"PIN" 32+72.09 OS 30.00L
END RET CURB
AP S/W

"PIN" 32+72.13 OS 41.40L
MATCH EX S/W

"PIN" 32+73.06 OS 41.40L
MATCH EX S/W

"PIN" 32+73.07 OS 30.00L
AP S/W

"PIN" 33+12.52 OS 30.00L
AP S/W

"PIN" 33+12.52 OS 40.00L
MATCH EX S/W

"PIN" 33+13.97 OS 40.00L
MATCH EX S/W

"PIN" 33+19.95 OS 30.00L
AP S/W

"PIN" 33+66.61 OS 30.00L
END SIDEWALK

"PIN" 33+80.43 OS 35.00L
MATCH EXISTING

"PIN" 33+89.86 OS 35.00L
BEG C&G

"PIN" 33+89.86 OS 35.00L
MATCH EXISTING

"PIN" 34+14.65 OS 30.00L
BEG SIDEWALK

"PIN" 34+73.08 OS 30.00L
END SIDEWALK

"PIN" 34+84.87 OS 35.00L
END C&G
MATCH EXISTING

AEP

"NOT A PART"
SHADOW LANE IMPROVEMENTS
W. CHARLESTONTO ALTA DR.
(CLV HANSEN NO. 53513)

"PIN" 32+23.97 OS 0.00
AP AC

"PIN" 32+32.94 OS 0.00
AP AC

"PIN" 32+23.97 OS 20.00 R
BEG AC, C&G AND SIDEWALK

PINTO LANE

33+00

34+00

"PIN" 33+66.43 OS 20.00L
BC / PC

"PIN" 34+14.86 OS 20.00L
BC / PT / CB

"PIN" 34+19.87 OS 20.00L
BC / PC

MATCHLINE - STA: 34+50 - SEE SHEET GR-02

R/W

TV

139-33-305-020
NEVADA HEALTH AND BIOSCIENCE ASSET
625 SHADOW LN
IMPROVEMENTS
BY OTHERS

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1" = 10'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

GRADING NOTES

1. SAWCUT AND MATCH EXISTING AC OR CONCRETE
2. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS ON SHEET TY-01).
3. CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216).
4. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234).
9. CONSTRUCT MODIFIED SIDEWALK RAMP PER DETAIL #1 ON SHEET DT-01.
10. CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #1 ON SHEET DT-01.
13. CONSTRUCT ON-SITE PAVEMENT SECTION PER DETAIL ON SHEETS TY-01 AND TY-02.

LEGEND

- ASPHALT
- CONCRETE
- ADA RAMP
- EXISTING BUILDING
- BUILDING FOOTPRINT
- AEP

BACK OF CURB CURVE TABLE

NO.	DELTA	RADIUS	LENGTH
C1	090°00'00"	15.00'	23.56'
C2	090°00'00"	15.00'	23.56'
C3	090°00'00"	15.00'	23.56'

APPROVED FOR CONSTRUCTION
Jason N. Shadery 6/15/2021 1
Las Vegas Valley Water District Planning and Engineering Services
Project No. 138967 First Approved Date: 4/5/2021

NO.	DATE	REVISIONS	SHEET
1	5/26/21	REVISED PER ADDENDUM 1	
		LVVWD 6/15/2021	

PREPARED BY
VTN
2727 SOUTH RAINBOW BOULEVARD
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WWW.VTNNV.COM

PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L. MURPHY
EXP: 12/31/21
CIVIL
NO. 18493
6-14-2021

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
GRADING PLAN
STA: 32+00.00 TO STA: 34+50.00

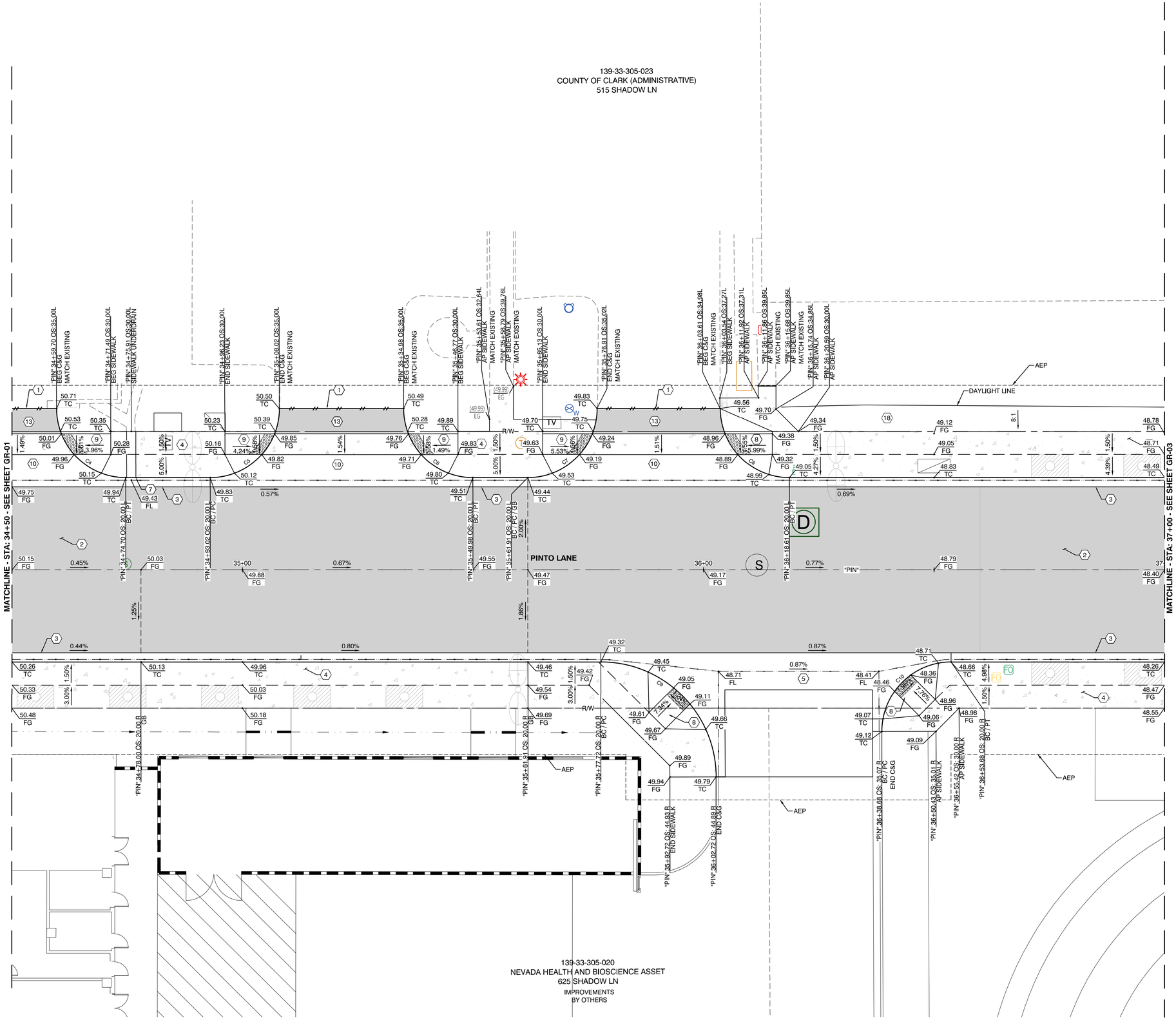
PREPARED FOR
CITY OF LAS VEGAS

DATE: FEBRUARY 2021
DESIGNED BY: BP
DRAWN BY: BP
CHECKED BY: MM
BID # 21.MWA832
H # 69743
SUBMITTAL STAGE: 100% FINAL

SHEET
GR-01
15 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

H:\138967_PRODUCTION\PHASE 1\#69743\69743-1.DWG
6/3/21



GRAPHIC SCALE

10 0 5 10 20

(IN FEET)
1" = 10'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

GRADING NOTES

1. SAWCUT AND MATCH EXISTING AC OR CONCRETE
2. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS ON SHEET TY-01).
3. CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216).
4. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234).
5. CONSTRUCT CONCRETE CROSS GUTTER AND/OR SPANDREL (USDCCA STD. DWG. NO. 228).
7. CONSTRUCT SIDEWALK UNDERDRAIN (USDCCA STD. DWG. NO. 236).
8. CONSTRUCT CASE II SIDEWALK RAMP (USDCCA STD. DWG. NO. 235).
9. CONSTRUCT MODIFIED SIDEWALK RAMP PER DETAIL #1 ON SHEET DT-01.
10. CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #1 ON SHEET DT-01.
13. CONSTRUCT ON-SITE PAVEMENT SECTION PER DETAIL ON SHEETS TY-01 AND TY-02.
18. REMOVE AND REPLACE LANDSCAPE INCLUDING IRRIGATION.

LEGEND

- ASPHALT
- CONCRETE
- ADA RAMP
- EXISTING BUILDING
- BUILDING FOOTPRINT
- AEP

BACK OF CURB CURVE TABLE

NO.	DELTA	RADIUS	LENGTH
C4	090°00'00"	15.00'	23.56'
C5	090°00'00"	15.00'	23.56'
C6	090°00'00"	15.00'	23.56'
C7	090°03'51"	15.00'	23.58'
C8	089°56'09"	15.00'	23.55'
C9	089°44'41"	25.00'	39.16'
C10	090°15'19"	15.00'	23.63'

APPROVED FOR CONSTRUCTION

Jason S. Shankey

Las Vegas Valley Water District Planning and Engineering Services
Project No. 138967 First Approved Date: 4/5/2021

NO.	DATE	REVISIONS

PREPARED BY
VTN NEVADA
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MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-8-2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MVA832
H # 69743

DATE: FEBRUARY 2021
DESIGNED BY: BP
DRAWN BY: BP
CHECKED BY: MM

SUBMITTAL STAGE: 100% FINAL

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

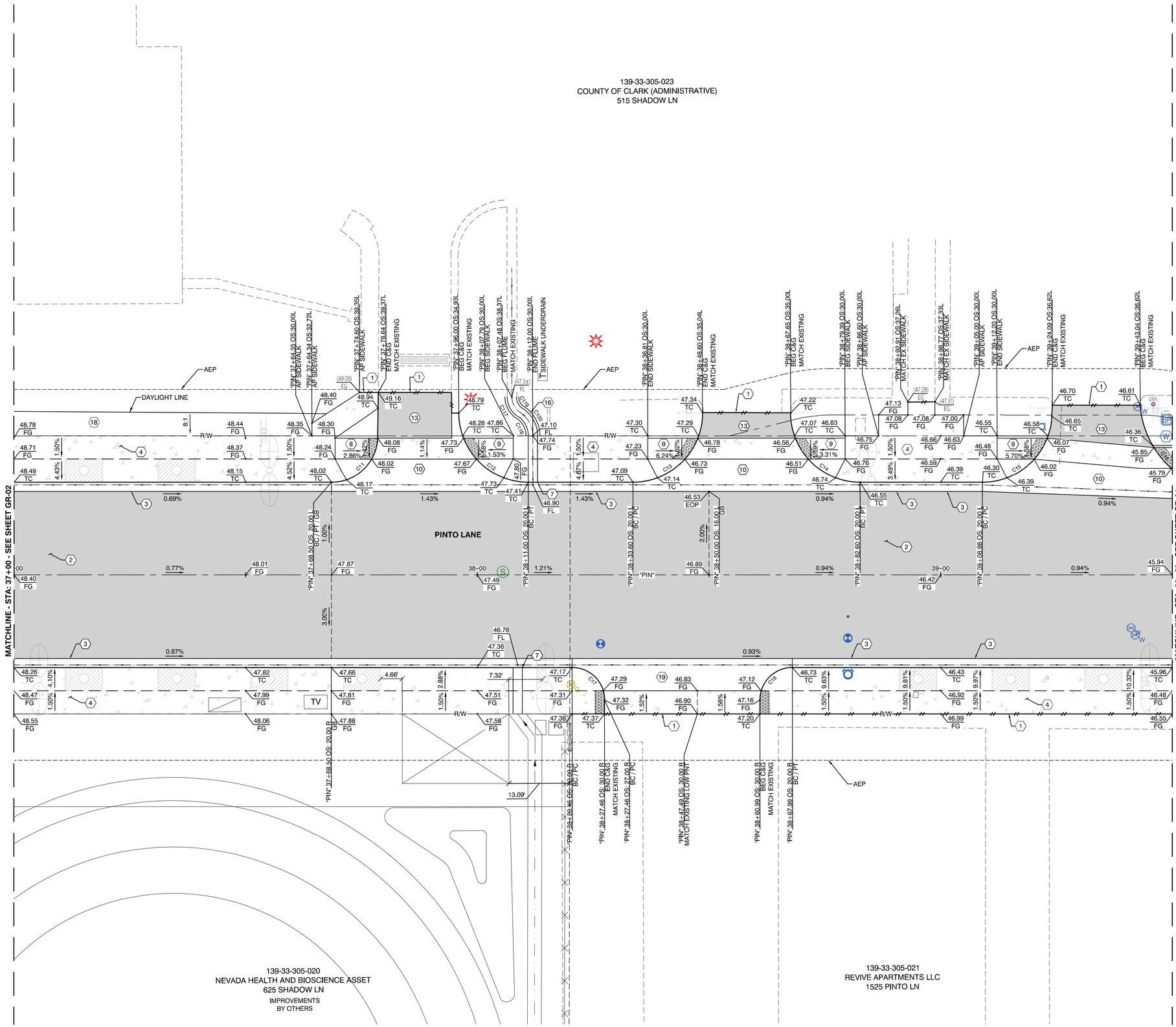
SHEET
GRADING PLAN
STA: 34+50.00 TO STA: 37+00.00

SHEET
GR-02
16 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

3/8/21 H:\138967\ PRODUCTION\PHASE 1\69743\GR-1.DWG



GRAPHIC SCALE

10 0 5 10 20

(IN FEET)
1" = 10'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

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BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

GRADING NOTES

1. SAWCUT AND MATCH EXISTING AC OR CONCRETE
2. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS ON SHEET TY-01).
3. CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216).
4. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234).
7. CONSTRUCT SIDEWALK UNDERDRAIN (USDCCA STD. DWG. NO. 236).
8. CONSTRUCT CASE II SIDEWALK RAMP (USDCCA STD. DWG. NO. 235).
9. CONSTRUCT MODIFIED SIDEWALK RAMP PER DETAIL #1 ON SHEET DT-01.
10. CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #1 ON SHEET DT-01.
13. CONSTRUCT ON-SITE PAVEMENT SECTION PER DETAIL ON SHEETS TY-01 AND TY-02.
16. CONSTRUCT "U" CHANNEL PER DETAIL #7 ON SHEET DT-01.
18. REMOVE AND REPLACE LANDSCAPE INCLUDING IRRIGATION.
19. CONSTRUCT CONCRETE DRIVEWAY PER DETAIL #2 ON SHEET DT-01.

LEGEND

- ASPHALT
- CONCRETE
- ADA RAMP
- EXISTING BUILDING
- BUILDING FOOTPRINT
- AEP

BACK OF CURB CURVE TABLE

NO.	DELTA	RADIUS	LENGTH
C11	089°59'58"	10.00'	15.71'
C12	089°44'42"	15.00'	23.50'
C13	090°08'46"	15.00'	23.60'
C14	090°00'00"	15.00'	23.56'
C15	087°00'07"	15.00'	22.78'
C16	086°02'25"	20.00'	30.03'
C17	090°00'00"	7.00'	11.00'
C18	090°00'00"	7.00'	11.00'
C117	056°48'02"	5.50'	5.45'
C118	056°43'48"	4.50'	4.46'
C119	056°48'02"	2.50'	2.48'
C120	056°43'48"	7.50'	7.43'

APPROVED FOR CONSTRUCTION

Jason N. Shadley

Las Vegas Valley Water District Planning and Engineering Services
Project No. 138967 First Approved Date: 4/5/2021

NO.	DATE	SHEET	REVISIONS

PREPARED BY
2727 SOUTH RAINBOW BOULEVARD
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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-8-2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
H # 69743

DATE: FEBRUARY 2021
DESIGNED BY: BP
DRAWN BY: BP
CHECKED BY: MM

SUBMITTAL STAGE: **100% FINAL**

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
GRADING PLAN
STA: 37+00.00 TO STA: 39+50.00

SHEET
GR-03
17 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

3/9/21 H:\78867_PRODUCTION\PHASE 1\#69743-GR-1.DWG

GRAPHIC SCALE

10 0 5 10 20

(IN FEET)
1" = 10'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

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	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

GRADING NOTES

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2. CONSTRUCT PLANTMIX BITUMINOUS SURFACE (SEE TYPICAL SECTIONS ON SHEET TY-01).
3. CONSTRUCT "L" TYPE CURB AND GUTTER (USDCCA STD. DWG. NO. 216).
4. CONSTRUCT CONCRETE SIDEWALK (USDCCA STD. DWG. NO. 234).
9. CONSTRUCT MODIFIED SIDEWALK RAMP PER DETAIL #1 ON SHEET DT-01.

LEGEND

- ASPHALT
- CONCRETE
- ADA RAMP
- EXISTING BUILDING
- BUILDING FOOTPRINT
- AEP

APPROVED FOR CONSTRUCTION

Jason S. Chaudoy

Las Vegas Valley Water District Planning and Engineering Services

Project No. 138967 First Approved Date: 4/5/2021

ISSUED FOR CONSTRUCTION

REVISIONS

NO.	DATE	SHEET

PREPARED BY
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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-8-2021

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

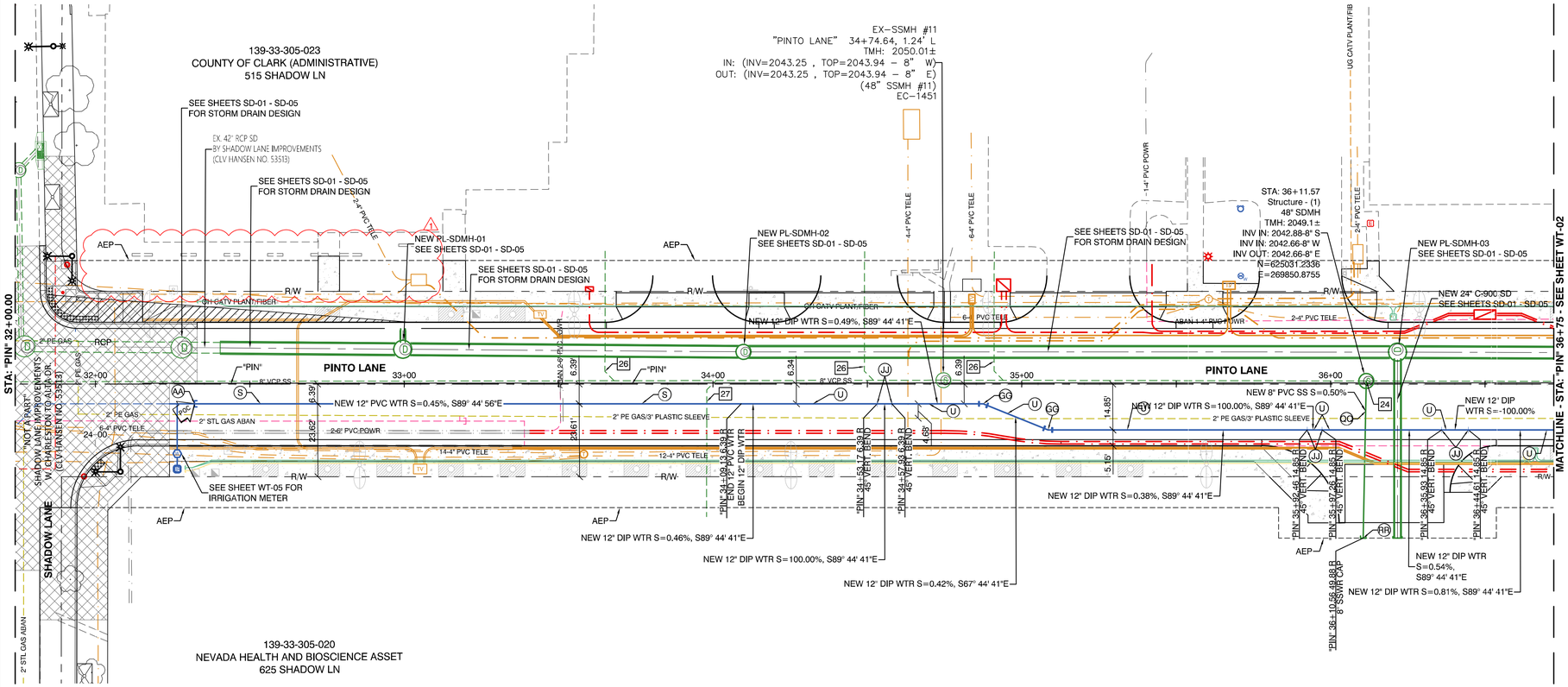
SHEET
GRADING PLAN
STA: 39+50.00 TO STA: 42+00.00

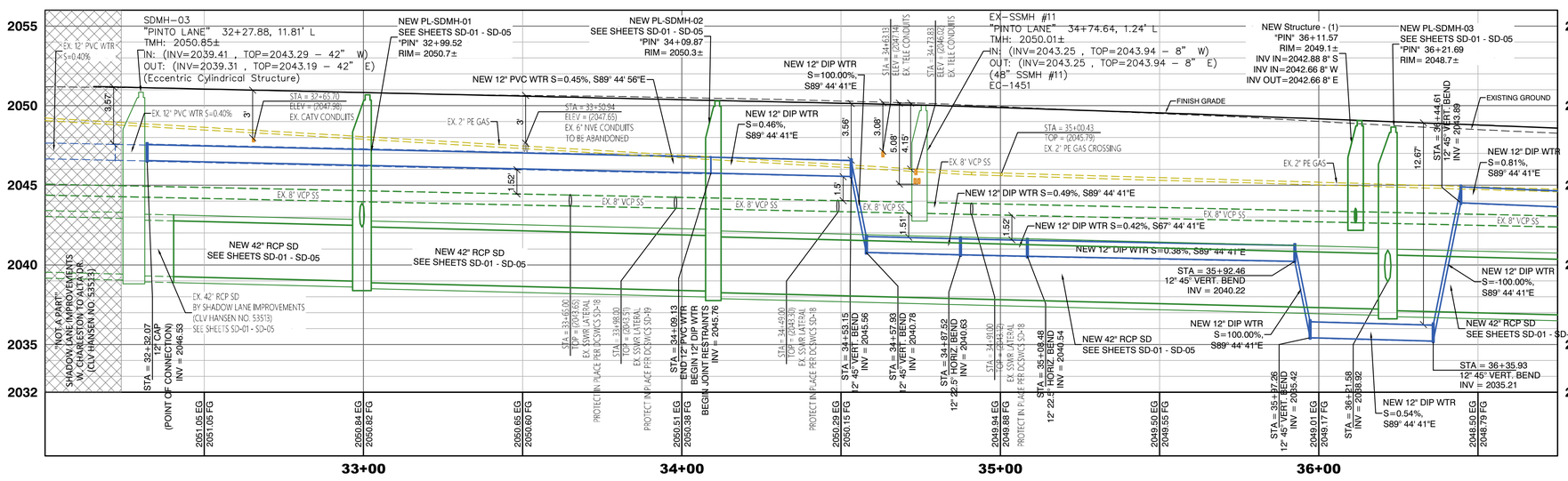
PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832	DATE: FEBRUARY 2021		
H # 69743	DESIGNED BY: BP		
SUBMITTAL STAGE: 100% FINAL	DRAWN BY: BP	CHECKED BY: MM	

SHEET
GR-04
18 OF 42
DRAWING NO.
107V8023-1

H:\138967\ PRODUCTION\PHASE 1\69743-GR-01.DWG
3/3/21





GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1" = 20'

(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

ESTIMATE OF WATER QUANTITIES AND LEGEND

S	12" C-900 PVC WATER MAIN (PUBLIC)	185.16 LF
U	12" POLYWRAPPED DIP WATER MAIN (PUBLIC)	264.81 LF
AA	POC POINT OF CONNECTION	1 EA
GG	12" 22.5° HORIZONTAL ELBOW (PER UDACS PLATE No. 31)	2 EA
JJ	12" VERTICAL BEND (PER UDACS PLATE No. 31)	6 EA
QQ	8" PVC SDR-35 SEWER MAIN	50.87 LF
RR	8" SSWR CAP	1 EA

NOT A PART OF THIS PROJECT

BUILDING FOOTPRINT

AEP

WATER PLAN NOTES:

24 CONSTRUCT 48" SEWER MANHOLE PER DCSWCS SD-1

26 EX. SEWER LATERAL. PROTECT IN PLACE PER DCSWCS SD-18

27 EX. SEWER LATERAL. PROTECT IN PLACE PER DCSWCS SD-19

RESTRAINED JOINTS FROM STATION 35+09.13 TO STATION 36+36.75

RESTRAINED JOINT NOTE:
ALL 12" DIP PIPE TO BE RESTRAINED IN LIEU OF THRUST AND ANCHOR BLOCKS

WATER MAIN COVER NOTE:
ALL NEW WATER MAIN TO HAVE MINIMUM DEPTH OF COVER PER UDACS SECTION 2.08

WATERLINE TRENCH NOTE:
CONSTRUCT WATERLINE TRENCH SECTION AND BACKFILL PER UDACS PLATE NO. 17.

CLV Fire Department 6-10-21 Date

APPROVED FOR CONSTRUCTION
Jason N. Shadeley 6/15/2021 1
Las Vegas Valley Water District Planning and Engineering Services
Project No. 138967 First Approved Date: 4/5/2021

ABANDONMENT OF EXISTING SERVICES - 2" AND SMALLER

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING. AFTER THE FINAL READING THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS: EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER AT (702-258-7171) FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX.

FIRE HYDRANT RELOCATION AND LATERAL ABANDONMENT

(EXISTING LATERAL TO BE ABANDONED)

WHERE SHOWN ON THE DRAWING, THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER BARRELS OF THE FIRE HYDRANT SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. FIRE HYDRANT(S) SHALL BE TESTED PRIOR TO AND AFTER RELOCATION UNDER THE DIRECTION OF THE DISTRICT TO ENSURE QUALITY OF THE FIRE HYDRANT(S). THE EXISTING HYDRANT SHALL BE INSTALLED AT THE NEW LOCATION AS INDICATED ON THE DRAWING, IN ACCORDANCE WITH UDACS PLATE 40.
THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO-THOUSAND (2,000) PSI. THE LATERAL SHALL BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON THE PLANS, AND CAPPED. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED, WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CUT AND CAP LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31.

ACP DISPOSAL NOTE

DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

LVVWD NOTE

ALL SEWER/STROM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

ABANDONED VALVES

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI.

NO.	DATE	REVISIONS
1	5/26/21	REVISED PER ADDENDUM 1
	6/15/2021	LVVWD

Jason N. Shadeley

PREPARED BY
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NEVADA PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
6-7-2021

TITLE: PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

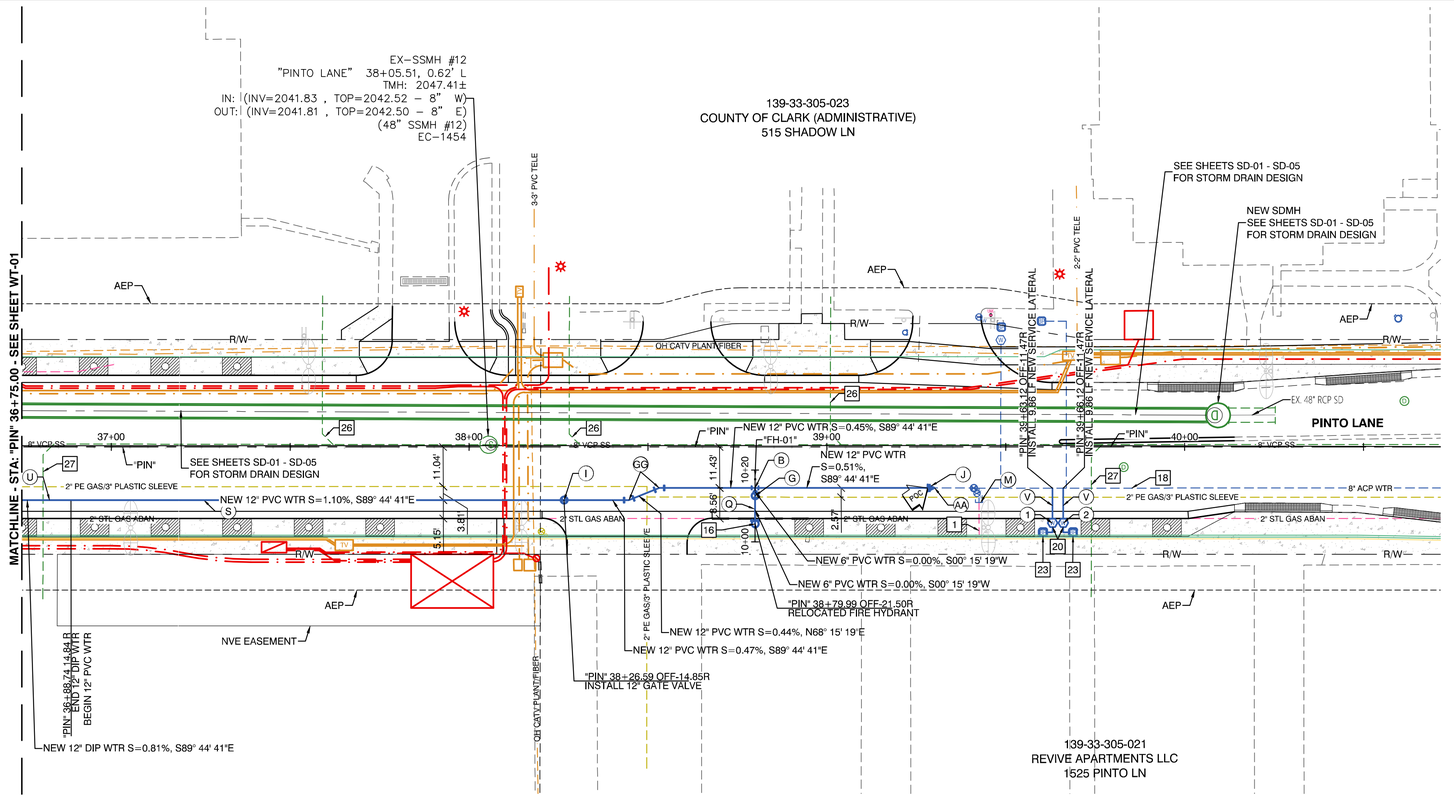
SHEET: WATER PLAN
STA: 32+00 TO STA: 36+75

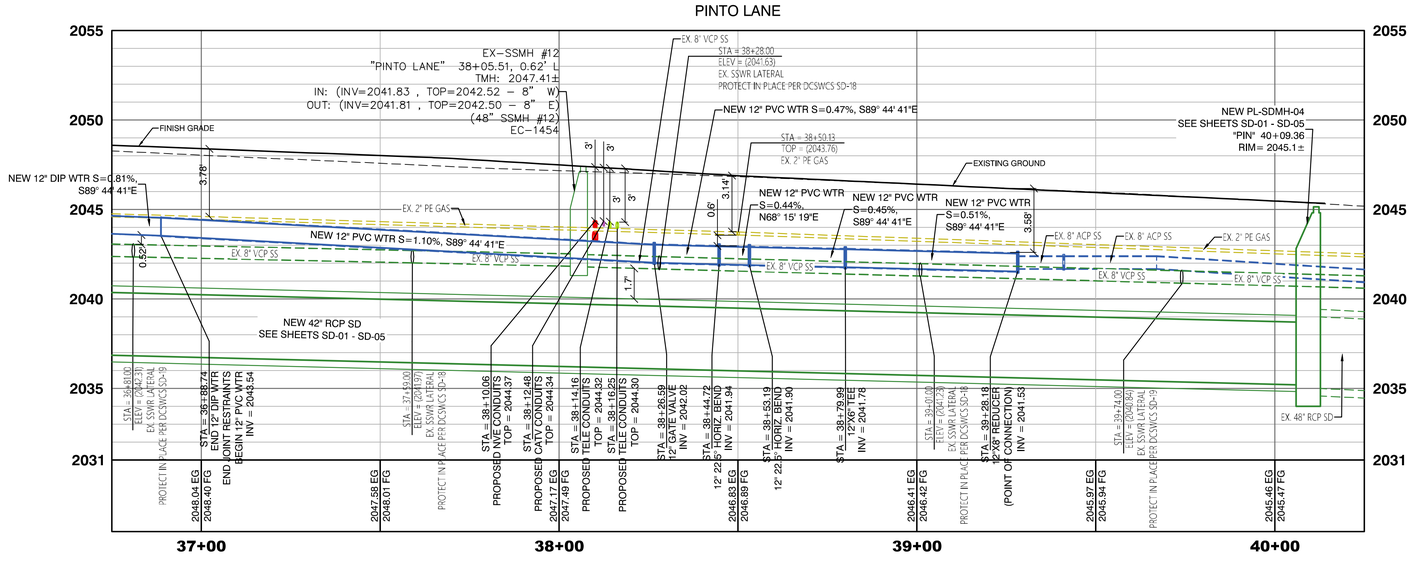
PREPARED FOR: CITY OF LAS VEGAS
DATE: FEBRUARY 2021
DESIGNED BY: BG
DRAWN BY: BG
CHECKED BY: MM
BID # 21.MWA832
H # 69743
SUBMITTAL STAGE: 100% FINAL

SHEET WT-01
19 OF 42
DRAWING NO. 107V8023-1

ISSUED FOR CONSTRUCTION

H:\78467.PRODUCTION\PHASE 1\WS\78467WT-1.DWG
6/2/21





ABANDONMENT OF EXISTING SERVICES - 2" AND SMALLER

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING. AFTER THE FINAL READING THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS: EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN. A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER AT (702-258-7171) FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX.

FIRE HYDRANT RELOCATION AND LATERAL ABANDONMENT

(EXISTING LATERAL TO BE ABANDONED)

WHERE SHOWN ON THE DRAWING, THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER BARRELS OF THE FIRE HYDRANT SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. FIRE HYDRANT(S) SHALL BE TESTED PRIOR TO AND AFTER RELOCATION UNDER THE DIRECTION OF THE DISTRICT TO ENSURE QUALITY OF THE FIRE HYDRANT(S). THE EXISTING HYDRANT SHALL BE INSTALLED AT THE NEW LOCATION AS INDICATED ON THE DRAWING, IN ACCORDANCE WITH UDACS PLATE 40.
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ACP DISPOSAL NOTE

DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

LVVWD NOTE

ALL SEWER/STROM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

ABANDONED VALVES

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE. BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1" = 20'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

ESTIMATE OF WATER QUANTITIES AND LEGEND

B	12"x6" HORIZONTAL TEE (PER UDACS PLATE No. 31)	1 EA
G	6" GATE VALVE (PER UDACS PLATE No. 31 & 39)	1 EA
H	8" GATE VALVE (PER UDACS PLATE No. 31 & 39)	1 EA
I	12" GATE VALVE (PER UDACS PLATE No. 31 & 39)	1 EA
J	12"x8" REDUCER (PER UDACS PLATE No. 31)	1 EA
Q	6" C-900 PVC WATER MAIN (PUBLIC)	7.88 LF
R	8" C-900 PVC WATER MAIN (PUBLIC)	25.14 LF
S	12" C-900 PVC WATER MAIN (PUBLIC)	240.09 LF
U	12" POLYWRAPPED DIP WATER MAIN (PUBLIC)	16.42 LF
V	INSTALL WATER SERVICE (PER UDACS PLT. No. 4)	19.68 LF
AA	POC POINT OF CONNECTION	1 EA
GG	12" 22.5° HORIZONTAL ELBOW (PER UDACS PLATE No. 31)	2 EA

BUILDING FOOTPRINT

AEP

WATER PLAN NOTES:

1. EXISTING WATER LINE TO BE ABANDONED
16. RELOCATED FIRE HYDRANT PER UDACS PLATE NO. 40
18. EXISTING WATER MAIN, P.I.P.
20. RELOCATED WATER METER PER UDACS PLATE NO. 4 RE-CONNECT TO EXISTING ONSITE WATER
23. INSTALL NEW RPPA PER UDACS PLATE NO. 8. CONTRACTOR TO ENSURE RPPA ENCLOSURE DOES NOT ENCROACH INTO PEDESTRIAN WALKWAY.
26. EX. SEWER LATERAL. PROTECT IN PLACE PER DCSWCS SD-18
27. EX. SEWER LATERAL. PROTECT IN PLACE PER DCSWCS SD-19

LVVWD WATER SERVICE INFORMATION

1	2" METER ACCT. #144614
2	2" METER ACCT. #792500

RESTRAINED JOINTS FROM STATION 36+75.00 TO STATION 36+88.74

RESTRAINED JOINT NOTE:
ALL 12" DIP PIPE TO BE RESTRAINED IN LIEU OF THRUST AND ANCHOR BLOCKS

WATER MAIN COVER NOTE:
ALL NEW WATER MAIN TO HAVE MINIMUM DEPTH OF COVER PER UDACS SECTION 2.08

WATERLINE TRENCH NOTE:
CONSTRUCT WATERLINE TRENCH SECTION AND BACKFILL PER UDACS PLATE NO. 17.

SOUTHWEST GAS NOTE:
CONTRACTOR TO COORDINATE WITH SOUTHWEST GAS 14 DAYS PRIOR TO INSTALLATION OF WATER LINES, GAS LINES SHALL BE PROTECTED IN PLACE.

3-22-21
CLV Fire Department Date

APPROVED FOR CONSTRUCTION

Jason N. Shankey
Las Vegas Valley Water District Planning and Engineering Services
Project No. 138967 First Approved Date: 4/5/2021

REVISIONS | SHEET | DATE | NO.

PREPARED BY
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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-24-2021

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
WATER PLAN
STA: 36+75 TO STA: 40+25

PREPARED FOR
CITY OF LAS VEGAS

DATE: FEBRUARY 2021
DESIGNED BY: BG
DRAWN BY: BG
CHECKED BY: MM

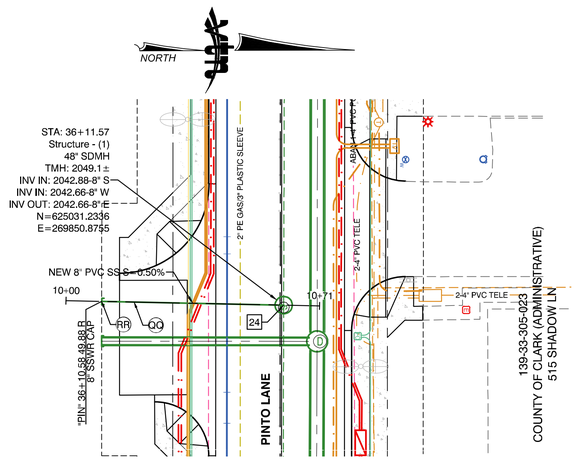
BID # 21.MWA832
H # 69743
SUBMITTAL STAGE: 100% FINAL

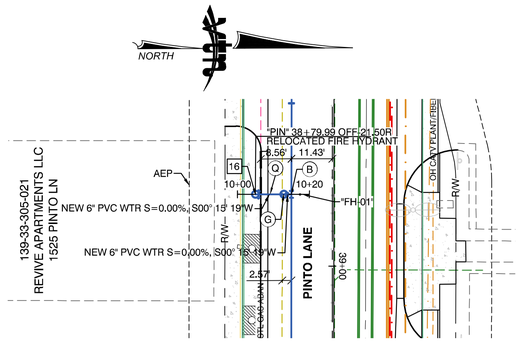
SHEET
WT-02
20 OF 42

DRAWING NO.
107V8023-1

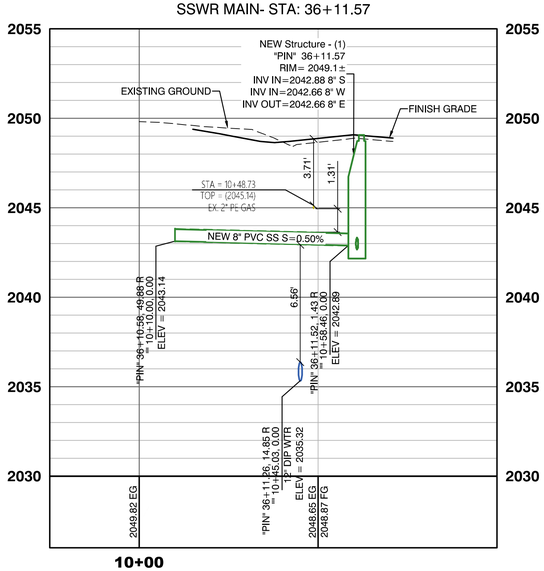
ISSUED FOR CONSTRUCTION

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3/18/21

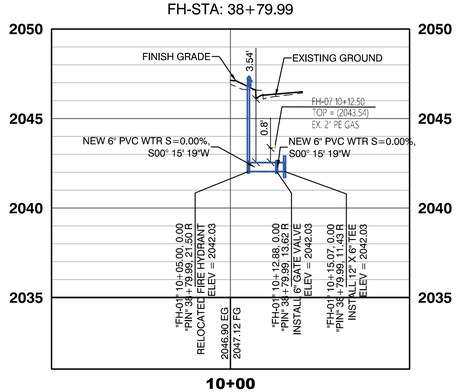




SSWR MAIN- STA: 36+11.57



FH-STA: 38+79.99



GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1" = 20'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

ESTIMATE OF WATER QUANTITIES AND LEGEND

B	12"x6" HORIZONTAL TEE (PER UDACS PLATE No. 31)	1 EA
G	6" GATE VALVE (PER UDACS PLATE No. 31 & 39)	1 EA
N	8" CAP	1 EA
Q	6" C-900 PVC WATER MAIN (PUBLIC)	7.88 LF
R	8" C-900 PVC WATER MAIN (PUBLIC)	25.14 LF
QQ	8" PVC SDR-35 SEWER MAIN	50.87 LF
RR	8" SSWR CAP	1 EA

WATER PLAN NOTES:

16 RELOCATED FIRE HYDRANT PER UDACS PLATE NO. 40

24 CONSTRUCT 48" SEWER MANHOLE PER DCSWCS SD-1

SOUTHWEST GAS NOTE:

CONTRACTOR TO COORDINATE WITH SOUTHWEST GAS 14 DAYS PRIOR TO INSTALLATION OF WATER LINES. GAS LINES SHALL BE PROTECTED IN PLACE.

DUCTILE IRON PIPE NOTE:

ALL NEW DUCTILE IRON PIPE SHALL BE CLASS 53

3-23-21
CLV Fire Department Date

APPROVED FOR CONSTRUCTION

Jason N. Shaudery
Las Vegas Valley Water District Planning and Engineering Services
Project No. 138967 First Approved Date: 4/5/2021

REVISIONS | NO. | DATE | SHEET

PREPARED BY
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MELISSA L. MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-24-2021

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
WATER PLAN
PROFILES

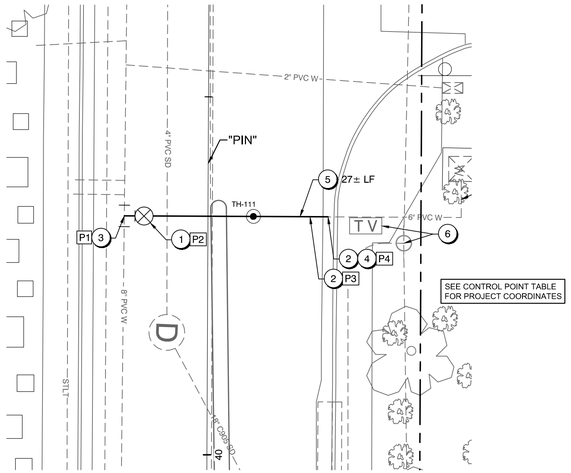
PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832	DATE: FEBRUARY 2021		
H # 69743	DESIGNED BY: BG	DRAWN BY: BG	CHECKED BY: MM
SUBMITTAL STAGE: 100% FINAL			

SHEET
WT-03
21 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

3/8/21 H:\139867 PRODUCTION\PHASE 1\WD\TS\WT-03.DWG

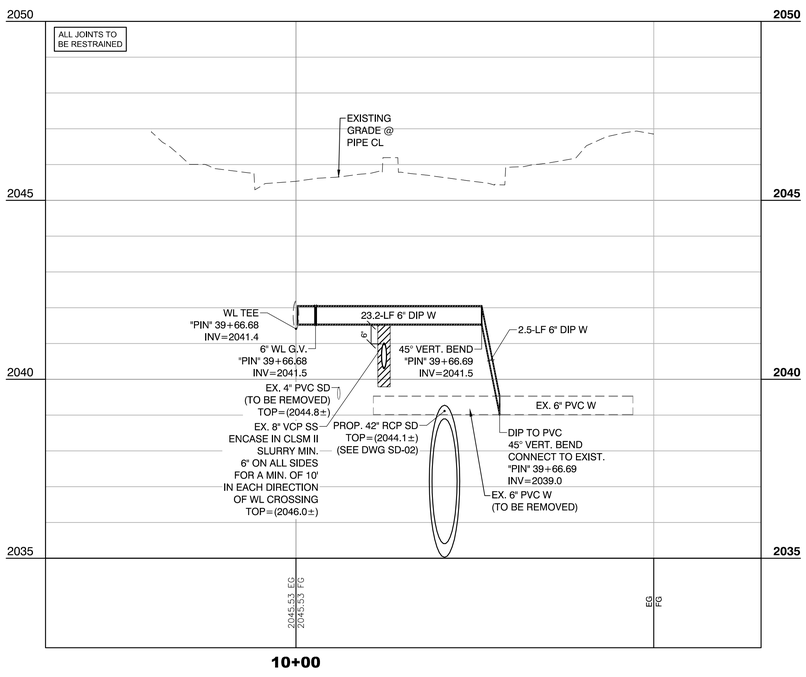


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PINTO LANE WATERLINE RELOCATION

SCALE: 1" = 10'

CONTROL POINT TABLE			
POINT #	STATION	OFFSET	DESCRIPTION
P1	"PIN" 39+66.68	11.69' RT	8"x8"x6" TEE (MJxMJxFL)(CONNECT TO EXIST.)
P2	"PIN" 39+66.69	8.94' RT	6" GATE VALVE (FLxMJ)
P3	"PIN" 39+66.69	14.25' LT	45° VERTICAL ELBOW (MJxMJ)
P4	"PIN" 39+66.69	16.77' LT	45° VERTICAL ELBOW DIP TO PVC (MJxMJ)(CONNECT TO EXIST.)



10+00

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

UTILITY KEYNOTES

1. INSTALL GATE VALVE (SIZE ON CONTROL POINT TABLE) PER UDACS PLATE #30 AND #39.
2. INSTALL 45° ELBOW PER UDACS PLATE #31.
3. INSTALL TEE (SIZES ON CONTROL POINT TABLE) PER UDACS PLATE #31.
4. CONNECT TO EXISTING WATERLINE (TRANSITION TYPES AND SIZES ON CONTROL POINT TABLE).
5. INSTALL 6" DUCTILE IRON WATERLINE WITH RESTRAINED JOINTS AND FITTINGS PER UDACS PLATE #17.
6. PROTECT-IN-PLACE.

EXISTING UTILITIES ARE LOCATED ON THE PLANS FROM A SEARCH OF AVAILABLE RECORDS AND SUE POTHOLE DATA. CONTRACTOR TO VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION

Jason N. Shadley

Las Vegas Valley Water District Planning and Engineering Services

PROJECT NO. 138967 FIRST APPROVED DATE: 4/5/2021

NO.	DATE	REVISIONS

PREPARED BY

HORROCKS ENGINEERS
1421 N. Green Valley Pkwy.
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Henderson, Nevada 89074
Tel: +1 (702) 366-0063
www.horrocksengineers.com

PREPARED FOR
CITY OF LAS VEGAS

H# 69743

DATE: 3/03/2021

SUBMITTAL STAGE: Final Submittal

BID# 21.MWA193

DESIGNED BY: JH

DRAWN BY: DJE

CHECKED BY: BJC

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
PINTO LANE
WATERLINE RELOCATION

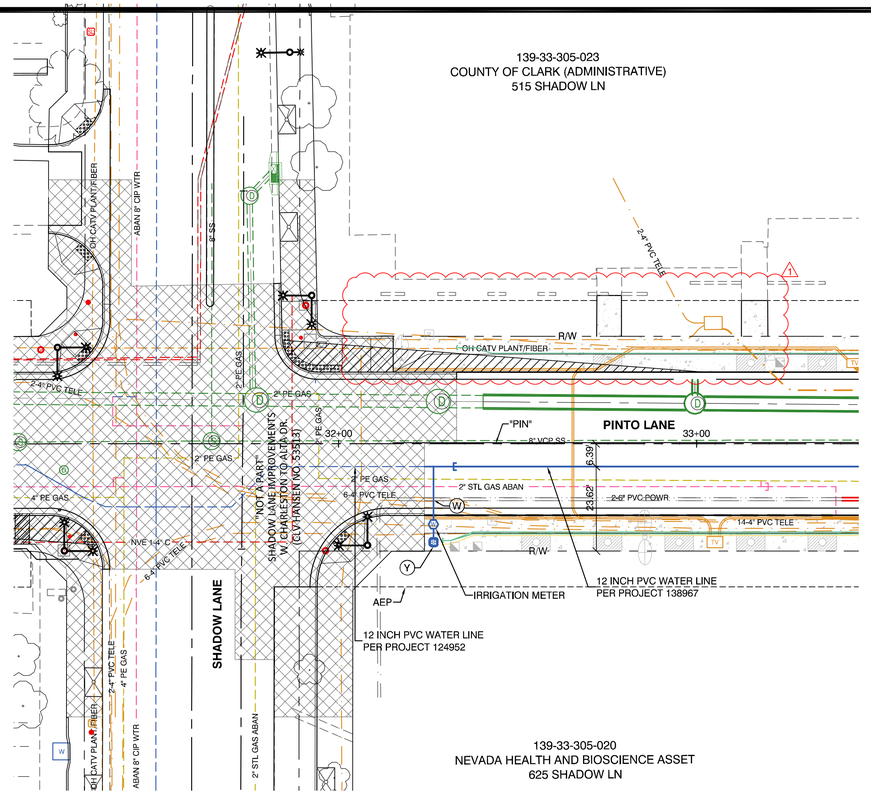
PROFESSIONAL ENGINEER STATE OF NEVADA
BYRON JAMES COLTON
EXP. 12-31-22
CIVIL
No. 25916
3/03/2021

SHEET
WT-04
22 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

C:\Users\steveb\Desktop\Pinto Storm Drain\Sheet Set\DWG\HS5513-PUT01 *3-03-21 09:56am



ESTIMATE OF WATER QUANTITIES AND LEGEND

(W)	——	INSTALL 1 1/2" WATER SERVICE LATERAL (PER UDACS PLT. No. 4)	13.61 LF
(Y)	M	INSTALL NEW 1 1/2" METER AND RPPA PER UDACS PLATE NO. 8 (SIZE PER ACCOUNT). SEE DETAIL #9 ON SHEET DT-02.	1 EA
		NOT A PART OF THIS PROJECT	
		BUILDING FOOTPRINT	
		AEP	

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1" = 20'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

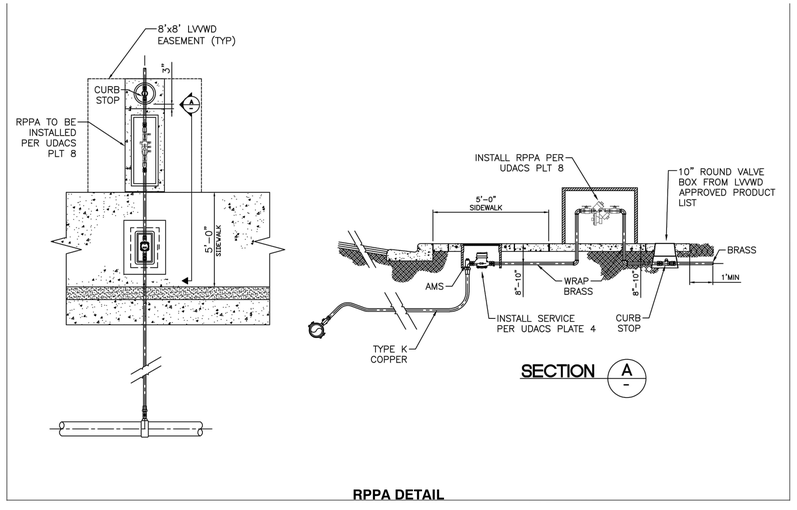
LVVWD PROJECT#_____

(REVISED 01/27/2021)

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. **WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT# IDENTIFIED ABOVE.**
2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE **2010** EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). **THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.**
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. ALL WATER AND STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE **2010** EDITION OF THE UDACS.
9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUTDOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE LISTED ON THE LVVWD APPROVED PRODUCT'S LIST (APL) FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
13. TELEPHONE **USA NORTH** 811 "CALL BEFORE YOU DIG" AT "811" OR 1-800-642-2444.
14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.

    ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.
15. **NO LEAD COMPLIANCE NOTE:**
    TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

ESN.032 REVISED 01/27/2021



RPPA DETAIL

NOTE: THIS PROJECT PLAN APPROVAL CONTINGENT ON

CLV PINTO LANE #138967

PLAN APPROVAL / ~~BEING OPERATIONAL~~

Melissa Murphy

Digitally signed by Melissa Murphy
DN: C=US, E=melissam@vlvnv.com, O=VTN, OU=VTN, CN=Melissa Murphy
Date: 2021.06.14 13:13:46-07'00'

Jason Ghadery

Digitally signed by Jason Ghadery
DN: C=US, E=jason.ghadery@lvvwd.com, O=LVVWD/SNWA, OU=Planning & Engineering Services, CN=Jason Ghadery
Date: 2021.06.15 11:11:07-07'00'

APPROVED FOR CONSTRUCTION

Jason N. Ghadery 6/15/2021 (1)

Las Vegas Valley Water District Planning and Engineering Services

Project No. 138464 First Approved Date: 4/5/2021

CLV Fire Department 6-10-21 Date

ABANDONMENT OF EXISTING SERVICES - 2" AND SMALLER

THE CONTRACTOR SHALL NOTIFY THE INSPECTION DIVISION AT THE LVVWD (702-258-3227) 48 HOURS PRIOR TO THE REQUESTED REMOVAL TIME TO ALLOW THE DISTRICT TO TAKE THE FINAL METER READING. AFTER THE FINAL READING THE CONTRACTOR MAY THEN BEGIN REMOVAL PROCEDURES FOR THE AFFECTED SERVICE AS FOLLOWS: EXISTING SERVICE LATERALS THAT ARE TO BE ABANDONED FROM THE EXISTING WATER MAINS SHALL HAVE THE CORPORATION STOPS TURNED OFF AT THE MAIN, A MINIMUM OF TWELVE (12) INCHES OF THE LATERAL CUT OUT NEAR THE CORPORATION STOPS, AND A BRASS CAP INSTALLED ON THE CORPORATION STOP. IF THE CORPORATION STOP IS DAMAGED BEYOND REPAIR OR PULLED FROM THE EXISTING WATER MAIN, THE MAIN SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE, IN A MANNER APPROVED BY THE DISTRICT. IF THE CORPORATION STOP IS NOT WATER TIGHT, THE CONTRACTOR SHALL NOTIFY LVVWD COMMUNICATION SUPPORT CENTER AT (702-258-7171) FOR FURTHER DIRECTION. THE EXISTING METER(S) SHALL BE REMOVED AND DELIVERED TO THE DISTRICT. THE CONTRACTOR SHALL REMOVE THE EXISTING SERVICE METER BOX AND APPURTENANCES, FILL AND GRADE ANY AND ALL RESULTING VOIDS, AND REPLACE OR RESTORE TO ORIGINAL CONDITIONS OR BETTER, ALL LANDSCAPING, IRRIGATION SYSTEMS, CONCRETE, SIDEWALKS, ASPHALT, OR ANY OTHER ITEMS DAMAGED OR REMOVED DURING THE REMOVAL OF THE EXISTING SERVICE METER BOX.

FIRE HYDRANT RELOCATION AND LATERAL ABANDONMENT

(EXISTING LATERAL TO BE ABANDONED)

WHERE SHOWN ON THE DRAWING, THE CONTRACTOR SHALL ABANDON THE EXISTING FIRE HYDRANT(S) BY REMOVING BOTH THE UPPER AND LOWER BARRELS OF THE FIRE HYDRANT SO THAT NO PORTION OF THE REMAINING FIRE HYDRANT ASSEMBLY IS CLOSER THAN TWO (2) FEET TO THE EXISTING GRADE. FIRE HYDRANT(S) SHALL BE TESTED PRIOR TO AND AFTER RELOCATION UNDER THE DIRECTION OF THE DISTRICT TO ENSURE QUALITY OF THE FIRE HYDRANT(S). THE EXISTING HYDRANT SHALL BE INSTALLED AT THE NEW LOCATION AS INDICATED ON THE DRAWING, IN ACCORDANCE WITH UDACS PLATE 40.
THE EXISTING VALVE SHALL BE ABANDONED IN A CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO-THOUSAND (2,000) PSI. THE LATERAL SHALL BE CUT WITHIN ONE (1) FOOT OF THE ABANDONED VALVE, OR AS SHOWN ON THE PLANS, AND CAPPED. WHERE A JOINT OR COUPLING IN THE EXISTING PIPE IS UNCOVERED AT THE CUT AND CAP LOCATION, THE INSTALLATION OF A PLUG MAY BE PERMITTED, WITH DISTRICT APPROVAL. A CONCRETE THRUST BLOCK SHALL BE INSTALLED AT ALL CUT AND CAP LOCATIONS IN ACCORDANCE WITH THE PROVISIONS OF UDACS PLATE 31.

ACP DISPOSAL NOTE

DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

LVVWD NOTE

ALL SEWER/STROM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

ABANDONED VALVES

ALL VALVES TO BE ABANDONED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY-FOUR (24) INCHES OF THE VALVE BOX, AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE II AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCRETE HAVING A COMPRESSIVE STRENGTH OF AT LEAST TWO THOUSAND (2,000) PSI.

WATER MAIN COVER NOTE:

ALL NEW WATER MAIN TO HAVE MINIMUM DEPTH OF COVER PER UDACS SECTION 2.08

WATERLINE TRENCH NOTE:

CONSTRUCT WATERLINE TRENCH SECTION AND BACKFILL PER UDACS PLATE NO. 17.

NO.	DATE	REVISIONS	SHEET
1	5/26/21	REVISED PER ADDENDUM 1	
A	LVVWD 6/15/2021	Jason L. Ghadery	

PREPARED BY
2727 SOUTH RAINBOW BOULEVARD
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FAX: (702) 382-2597 WEB SITE
WWW.VTNNV.COM

PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
6-7-2021

TITLE: PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET: WATER PLAN IRRIGATION METER

PREPARED FOR: CITY OF LAS VEGAS

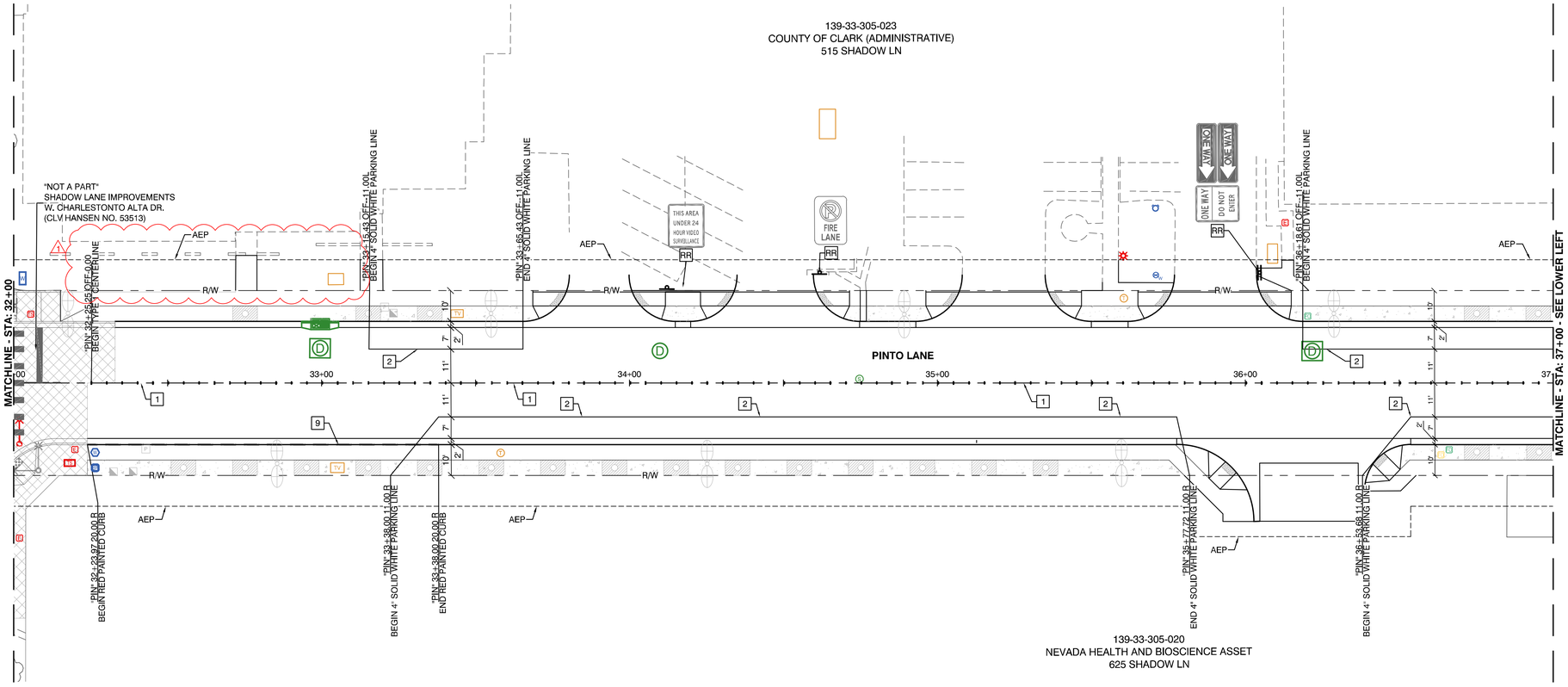
DATE: FEBRUARY 2021
DESIGNED BY: BG
DRAWN BY: BG
CHECKED BY: MM

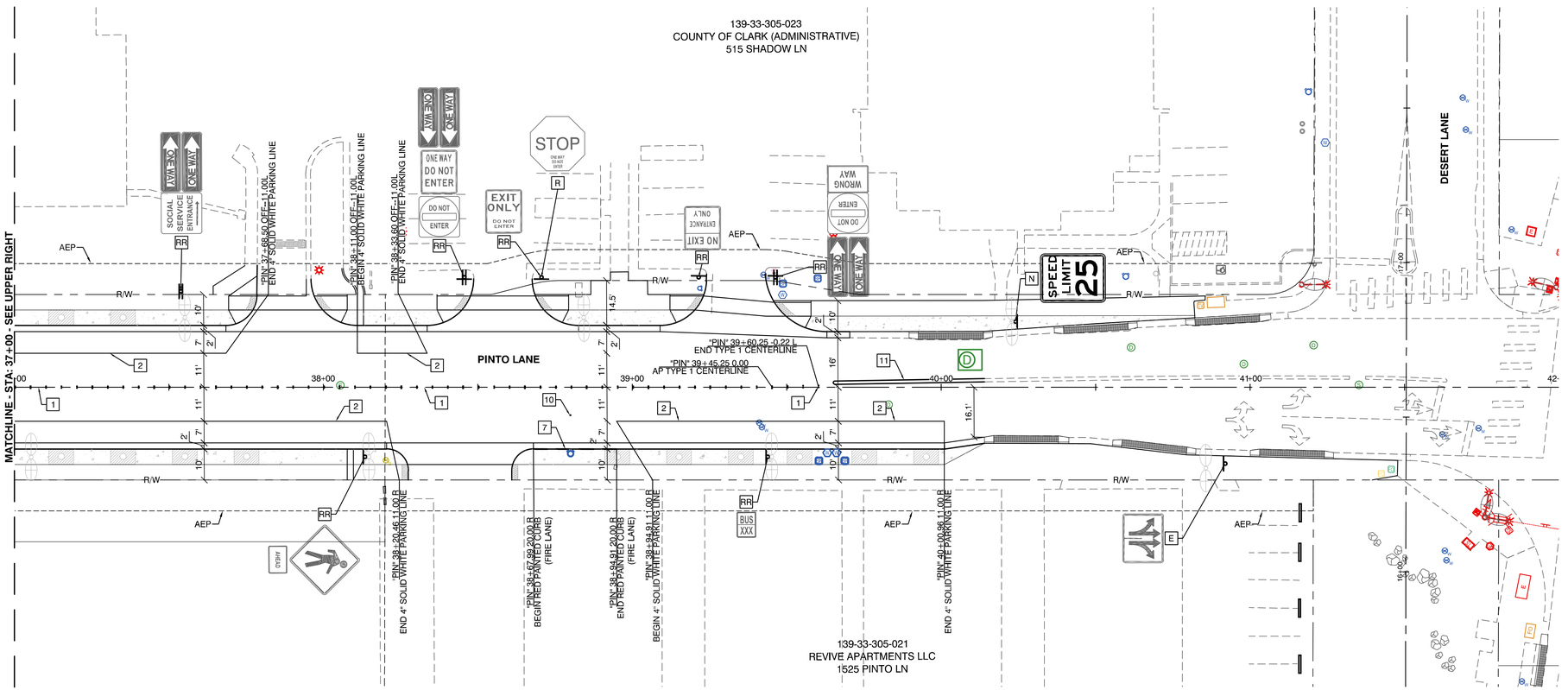
BID # 21.MWA832
H # 69743
SUBMITTAL STAGE: 100% FINAL

SHEET
WT-05
23 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

H:\78467.PROJ\CIN\PHASE 1\H#69743\WT-1\DWG
6/9/21





GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1" = 20'

(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

SIGNAGE AND MARKING NOTES

1. INSTALL TYPE I CENTERLINE PER CCAUSD NO.244 (RAISED PAVEMENT MARKERS).
2. INSTALL 4" SOLID WHITE PARKING LINE (POLYUREA).
7. CONSTRUCT "NO PARKING" FIRE LANE BY PAINTING CURBS WITH INDUSTRIAL STRENGTH ENAMEL (SAFETY RED) PER SOUTHERN NEVADA FIRE CODE 507.5.7.2.
9. PAINT CURB WITH INDUSTRIAL STRENGTH ENAMEL (SAFETY RED)
10. INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREET, OR FIRE LINES.
11. PAINT MEDIAN WITH REFLECTIVE YELLOW MEDIAN PAINT
E. EXISTING SIGN TO REMAIN.
RR. REMOVE & RESET EXISTING SIGN
N. INSTALL NEW SIGN.
R. REMOVE & SALVAGE EXISTING SIGN.

LEGEND-NEW SIGNAGE

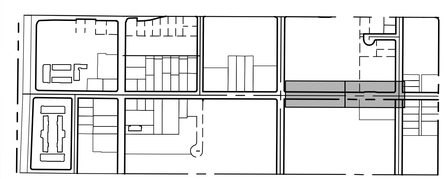
SPEED LIMIT 25
R2-1
24" X 30"

LEGEND-RELOCATED SIGNAGE

W11-2
ONE WAY R6-1
ONLY R3-5R
AHEAD W16-9P
STOP R1-1
SPEED LIMIT 25 R2-1
RNV 2-6
DO NOT ENTER R5-1
FIRE LANE R7-9a
SOCIAL SERVICE ENTRANCE CUSTOM SIGN
WRONG WAY R5-1a
BUS 207 BUS
EXIT ONLY DO NOT ENTER CUSTOM SIGN
NO EXIT ENTRANCE ONLY CUSTOM SIGN
ONE WAY DO NOT ENTER CUSTOM SIGN
THIS AREA UNDER 24 HOUR VIDEO SURVEILLANCE CUSTOM SIGN

LEGEND

- NOT A PART OF THIS PROJECT
- BUILDING FOOTPRINT
- AEP



KEY MAP

NO.	DATE	REVISIONS
1	5/26/21	REVISED PER ADDENDUM 1

PREPARED BY
VTN
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
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FAX: (702) 382-2597 WEB SITE
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PROFESSIONAL ENGINEER - STATE OF NEVADA
ROBERT C. HOSEA III
EXP: 06/30/21
No. 10112
CIVIL
6/14/2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
H # 69743
SUBMITTAL STAGE: 100% FINAL

DATE: FEBRUARY 2021
DESIGNED BY: BP
DRAWN BY: BP
CHECKED BY: MM

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

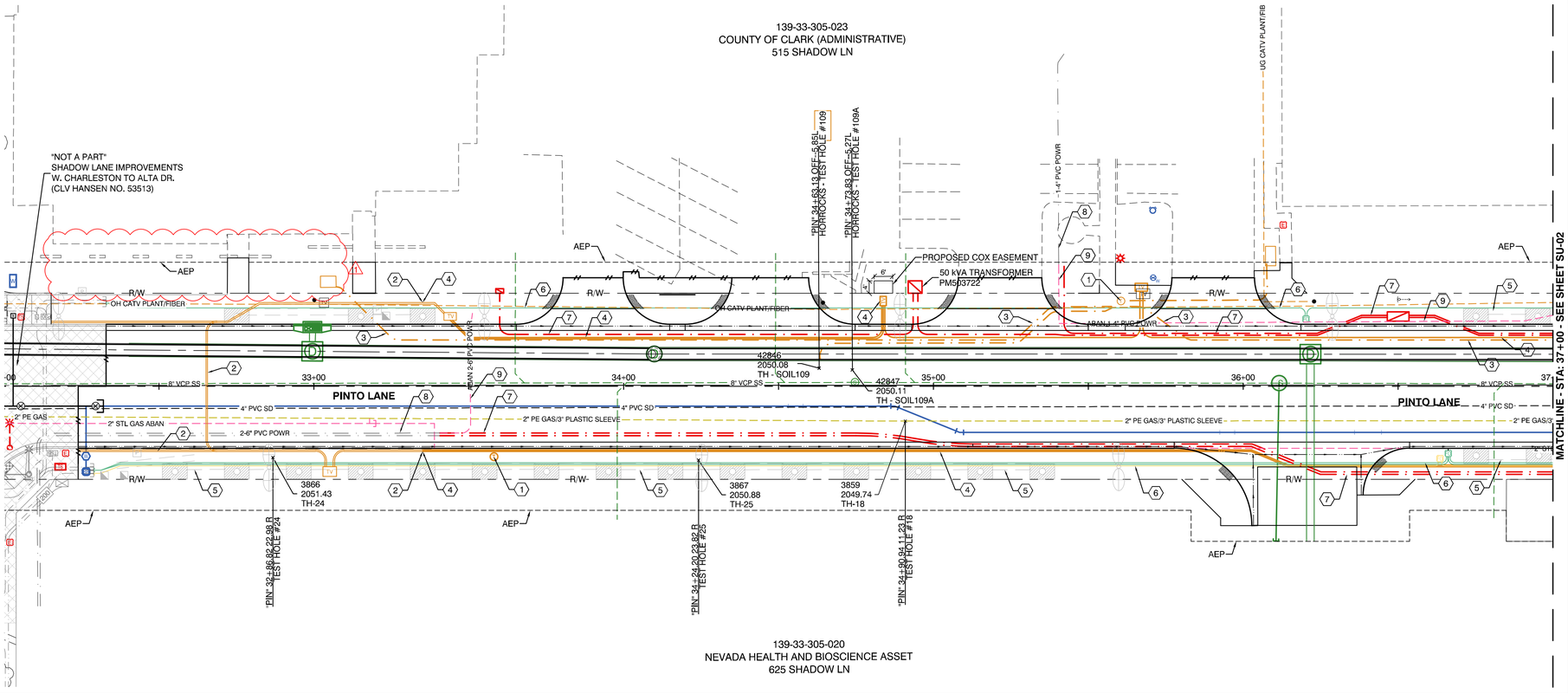
SHEET
SIGNAGE AND MARKING PLAN
STA: 32+00 TO STA: 42+00

SHEET
SM-01
24 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

H:\TP\8023_PRODUCTION\PHASE 1\MISP\SM-1.DWG
6/3/21



SUB-SURFACE POTHOLE AND UTILITY CONFLICT MATRIX														
Survey Point No.	**Test Hole No.**	**Utility**		**Depth to Top**	**Depth to Bottom**	**Top Elev**	**Bottom Elev**	**Algn**	**Station**	**Offset**	**Potential Conflict**		**Conflict?**	**Resolution**
		Type	Dia									Nominal Size		
			(Inches)	(ft)	(ft)									
3859	18	Gas	3	3.75	4	2045.99	2045.74	PIN	34+90.94	11.23' R	Water	12	Yes	DIP Water
3866	24	Telephone	(10) 4	4.19	6.19	2047.24	2045.24	PIN	32+86.82	22.98' R	Tree Wells	5' x 8'	Yes	Relocate Tree Wells
3867	25	Telephone	(8) 4	4.25	6.08	2046.63	2044.8	PIN	34+24.20	23.82' R	Tree Wells	5' x 8'	Yes	Relocate Tree Wells
42846	109	Telephone	(4) 4	3.08	3.41	2047	2046.66	PIN	34+63.13	5.85L'				
42847	109A	Telephone	(6)4	4.15	4.48	2045.96	2045.63	PIN	34+73.83	5.27L'				

NORTH

GRAPHIC SCALE
20 0 10 20 40
1" = 20'

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

SUBSURFACE UTILITY NOTES

1. EX. CENTURYLINK INFRASTRUCTURE
2. EX. COX INFRASTRUCTURE
3. PROPOSED CENTURYLINK INFRASTRUCTURE. SEE CENTURYLINK PLANS.
4. PROPOSED COX INFRASTRUCTURE BY OTHERS
5. PROPOSED IRRIGATION INFRASTRUCTURE. SEE IR SHEETS.
6. PROPOSED FIBER OPTIC INFRASTRUCTURE. SEE SHEET TL-01.
7. PROPOSED NVE INFRASTRUCTURE. SEE NVE PLANS.
8. EXISTING NVE INFRASTRUCTURE
9. EXISTING NVE INFRASTRUCTURE TO BE ABANDONED

LEGEND

- AUTHORIZATION TO ENTER PROPERTY (AEP)
- NOT A PART OF THIS PROJECT
- BUILDING FOOTPRINT
- AEP



KEY MAP

APPROVED FOR CONSTRUCTION
Jason N. Ghadery 6/15/2021 1
Las Vegas Valley Water District Planning and Engineering Services
Project No. 138967 First Approved Date: 4/5/2021

NO.	DATE	REVISIONS
1	5/26/21	REVISED PER ADDENDUM 1
		Jason N. Ghadery LVVWD 6/15/2021

PREPARED BY
2727 SOUTH RAINBOW BOULEVARD
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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
6-14-2021

TITLE: PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

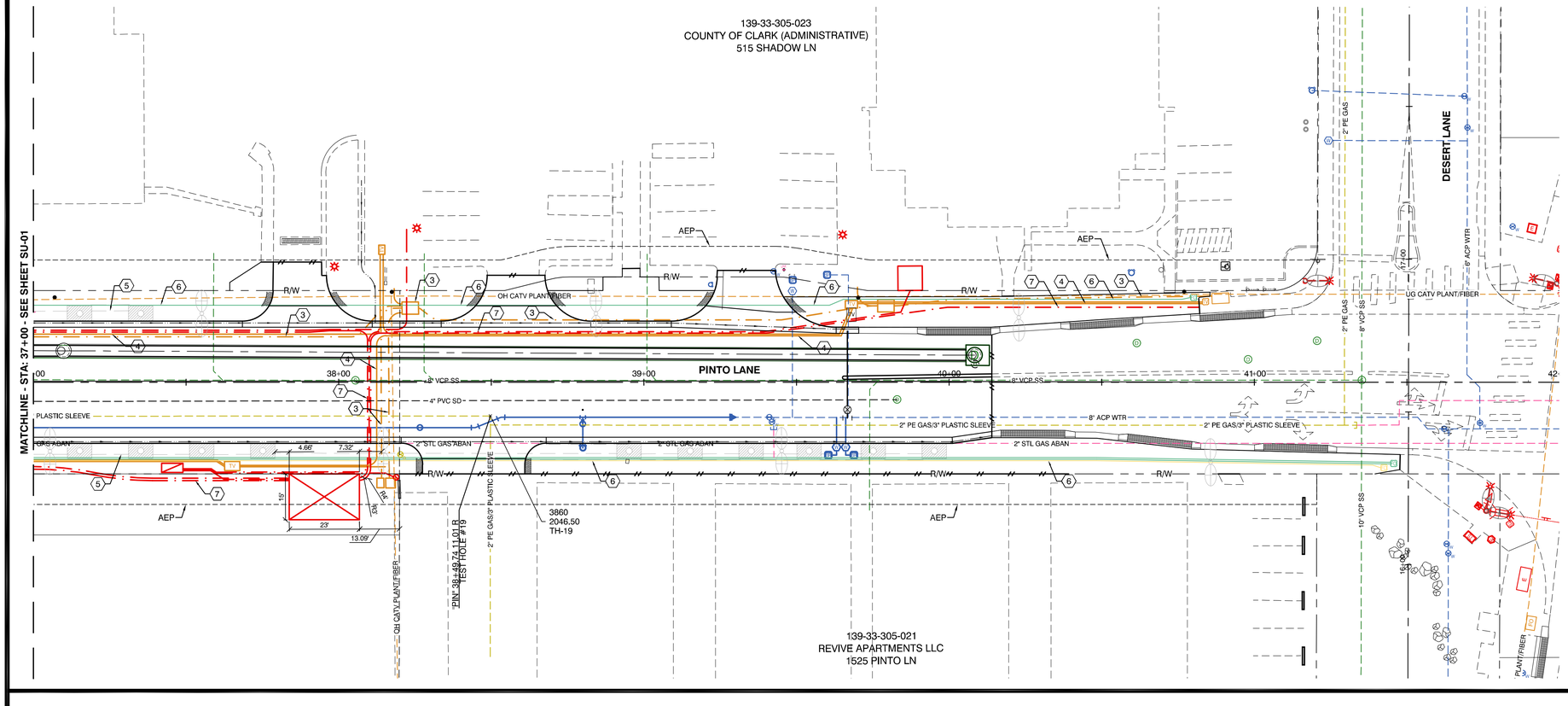
SHEET: SUBSURFACE UTILITY PLAN

PREPARED FOR: CITY OF LAS VEGAS
DATE: FEBRUARY 2021
DESIGNED BY: BG
DRAWN BY: BG
CHECKED BY: MM
BID # 21-MWA832
H # 69743
SUBMITTAL STAGE: 100% FINAL

SHEET SU-01
25 OF 42
DRAWING NO. 107V8023-1

ISSUED FOR CONSTRUCTION

H:\78467.PRODUCTION\PHASE 1\H#69743\SU-1.DWG
6/7/21



NORTH

GRAPHIC SCALE
20 0 10 20 40
1" = 20'

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

SUBSURFACE UTILITY NOTES

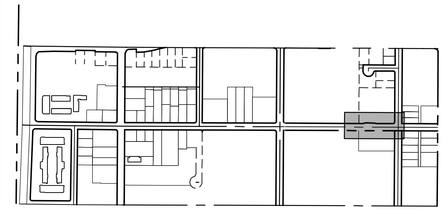
3. PROPOSED CENTURYLINK INFRASTRUCTURE. SEE CENTURYLINK PLANS.
4. PROPOSED COX INFRASTRUCTURE BY OTHERS
5. PROPOSED IRRIGATION INFRASTRUCTURE. SEE IR SHEETS.
6. PROPOSED FIBER OPTIC INFRASTRUCTURE. SEE SHEET TL-01.
7. PROPOSED NVE INFRASTRUCTURE. SEE NVE PLANS.

SUB-SURFACE POTHOLE AND UTILITY CONFLICT MATRIX

Survey Point No.	Test Hole No.	Utility		Depth to Top	Depth to Bottom	Top Elev	Bottom Elev	Algn	Station	Offset	Potential Conflict		Conflict?	Resolution
		Type	Dia											
			(Inches)	(ft)	(ft)									
3860	19	Gas	2	2.74	2.91	2043.76	2043.59	PIN	38+49.74	11.01' R	Water	12	No	

LEGEND

- AUTHORIZATION TO ENTER PROPERTY (AEP)
- NOT A PART OF THIS PROJECT
- BUILDING FOOTPRINT
- AEP



KEY MAP

APPROVED FOR CONSTRUCTION

Jason N. Shadery

Las Vegas Valley Water District Planning and Engineering Services

Project No. 138967 First Approved Date:

REVISIONS | NO. | DATE | SHEET

PREPARED BY
2727 SOUTH RAINBOW BOULEVARD
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FAX: (702) 382-2597 WEB SITE
WWW.VTNNV.COM

PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L. MURPHY
EXP: 12/31/21
CIVIL
No. 18493
3-8-2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
H # 69743

DATE: FEBRUARY 2021
DESIGNED BY: BG
DRAWN BY: BG
CHECKED BY: MM

SUBMITTAL STAGE: 100% FINAL

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

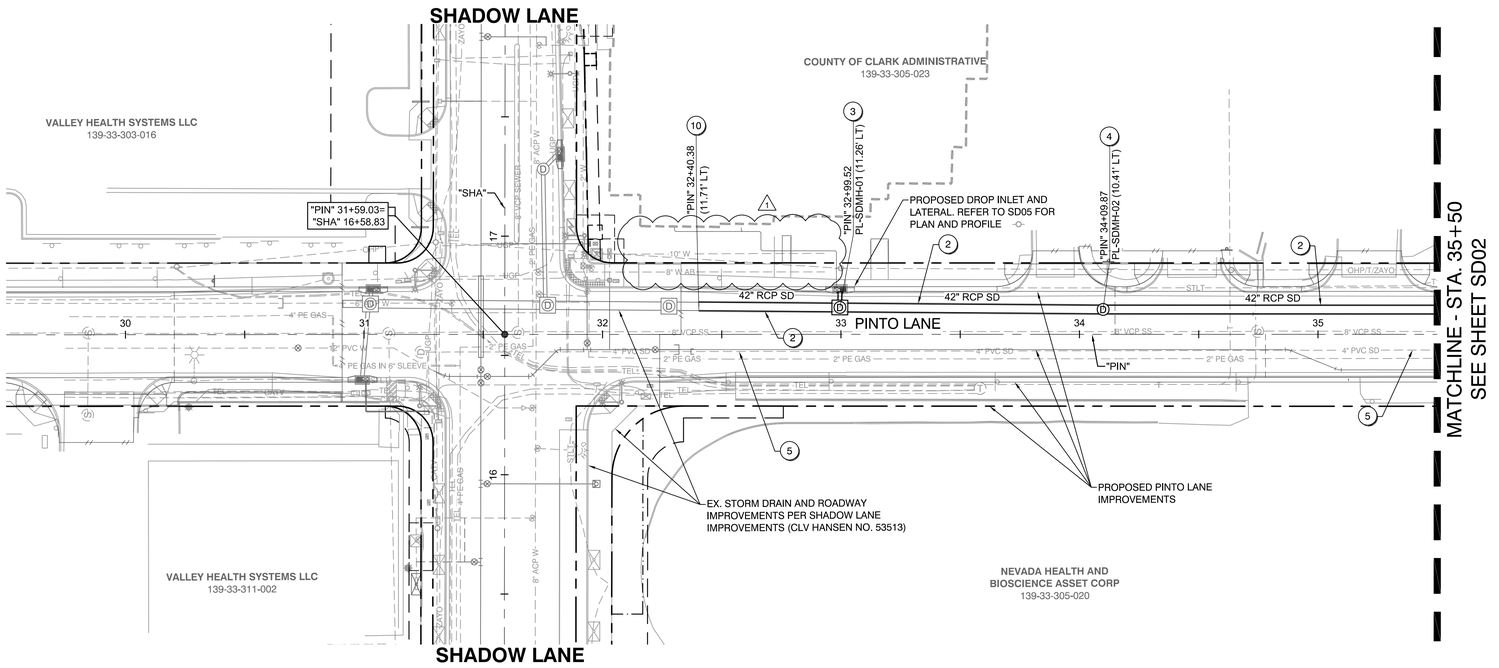
SHEET
SUBSURFACE UTILITY PLAN

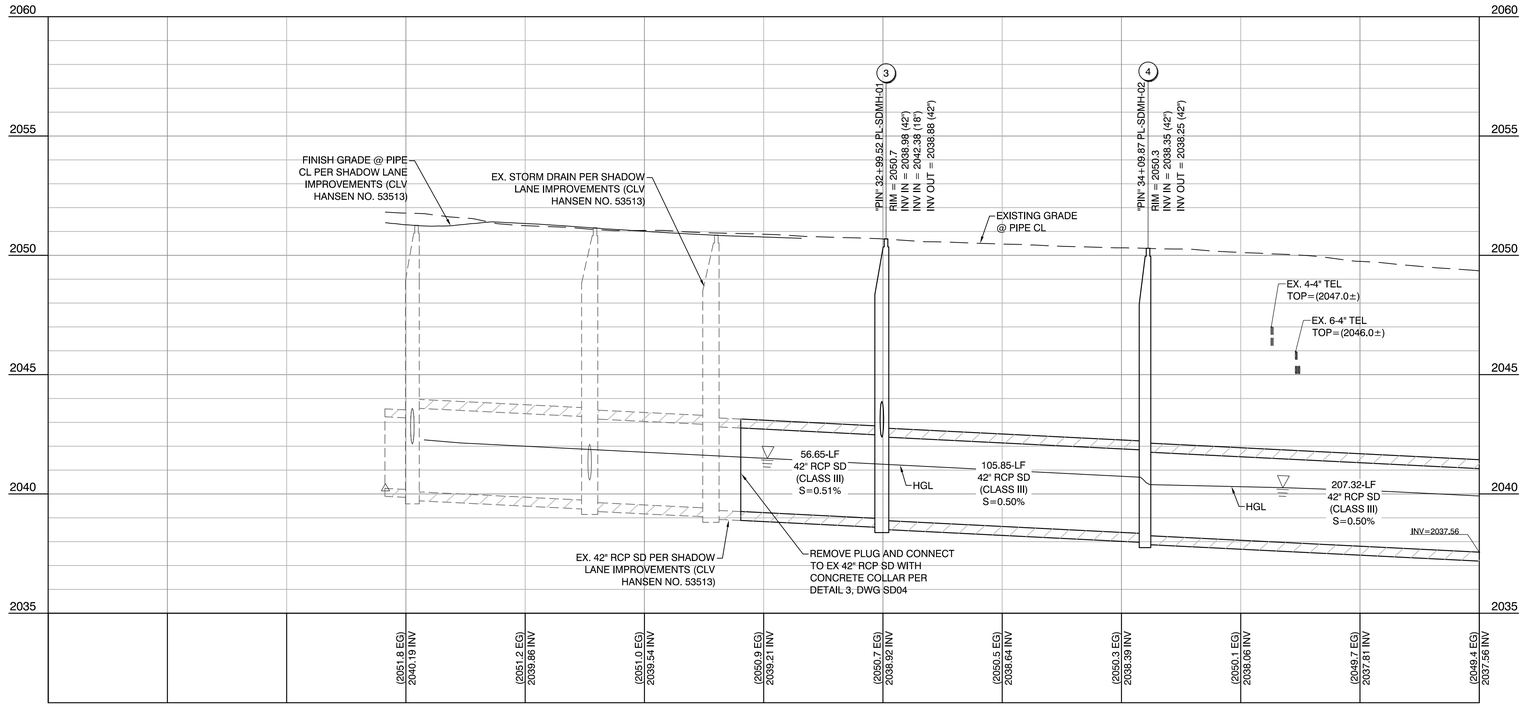
SHEET
SU-02
26 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

4/2/21 H:\78867 PRODUCTION\PHASE 1\MISC\SU-1.DWG





NORTH

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

KEYNOTES

1. INSTALL 24" C900 PVC SD PER TRENCH DETAIL 1 ON DWG. SD04.
2. INSTALL 42" RCP SD PER TRENCH DETAIL 1 ON DWG. SD04.
3. CONSTRUCT TYPE II SDMH PER USD #405.1.
4. CONSTRUCT TYPE III SDMH PER USD #406.1.
5. REMOVE EXISTING STORM DRAIN.
6. REMOVE EXISTING STORM DRAIN MANHOLE.
7. SALVAGE HINGED MANHOLE COVER AND FRAME.
8. INSTALL SALVAGED HINGED MANHOLE COVER AND FRAME ON NEW MANHOLE PER DETAIL 2, DWG SD04.
9. CAP PROPOSED STORM DRAIN WITH RCP PLUG PER DETAIL 4 DWG SD04.
10. CONNECT TO EXISTING STORM DRAIN WITH CONCRETE COLLAR PER DETAIL 3, DWG. SD04.

NOTES

1. CONTRACTOR TO TAKE ALL NECESSARY STEPS AND PRECAUTIONS TO ENSURE EXISTING UTILITIES AND STRUCTURES TO REMAIN STABLE AND IN PLACE DURING STORM DRAIN CONSTRUCTION.
2. ALL PIPE LENGTHS MEASURED ALONG PIPE CENTERLINE TO GRADE BREAK OR TO THE INSIDE EDGE OF THE DROP INLET, RCB, OR STRUCTURE.
3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USD #421.

EXISTING UTILITIES ARE LOCATED ON THE PLANS FROM A SEARCH OF AVAILABLE RECORDS. CONTRACTOR TO VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION

Jason N. Ghadery 6/15/2021 1

Las Vegas Valley Water District Planning and Engineering Services

PROJECT NO. 138967 FIRST APPROVED DATE: 4/5/2021

NO.	DATE	REVISIONS
1	6/15/2021	LVVWD
1	6/01/21	ADDENDUM #1

Jason L. Shankey

PREPARED BY
CITY OF LAS VEGAS NEVADA
HORROCKS ENGINEERS
1421 N. Green Valley Pkwy.
Suite 190
Henderson, Nevada 89074
Tel.: +1 (702) 968-4063
www.horrocksengineers.com

PREPARED FOR
CITY OF LAS VEGAS

H# 69743 | BID# 21.MWA193

DATE: 3/14/2021 | DESIGNED BY: SMB

SUBMITTAL STAGE: **Final Submittal** | DRAWN BY: DJE | CHECKED BY: WEH

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
STORM DRAIN PLAN AND PROFILE
PINTO LANE

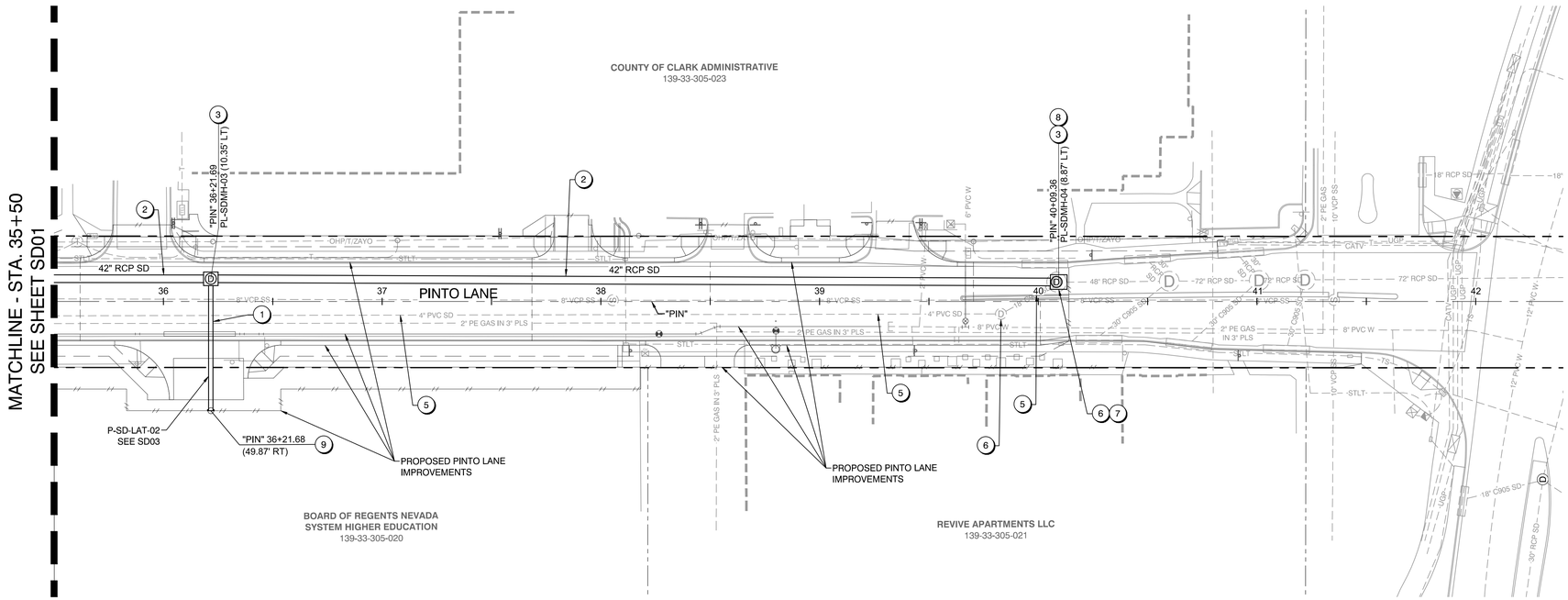
PROFESSIONAL ENGINEER
STATE OF NEVADA
STEVEN M. BELLINO
EXP. 12-31-22
CIVIL
No. 19040
06/01/2021

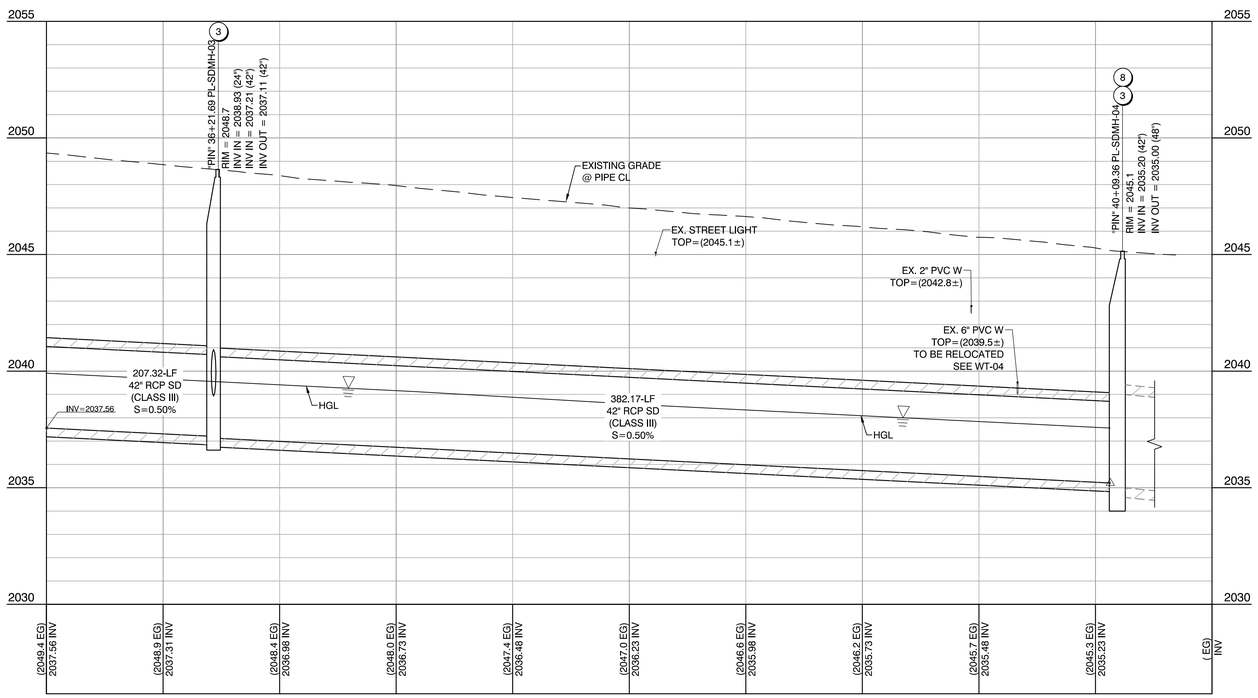
SHEET
SD01
27 OF 41

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

C:\Users\stwelch\Desktop\Pinto Storm Drain\Sheet Set\DWG\HSS513-PSD01 16-01-21 11:02am





GRAPHIC SCALE
30 0 15 30 60
(IN FEET)

NORTH

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

KEYNOTES

1. INSTALL 24" C900 PVC SD PER TRENCH DETAIL 1 ON DWG. SD04.
2. INSTALL 42" RCP SD PER TRENCH DETAIL 1 ON DWG. SD04.
3. CONSTRUCT TYPE II SDMH PER USD #405.1.
4. CONSTRUCT TYPE III SDMH PER USD #406.1.
5. REMOVE EXISTING STORM DRAIN.
6. REMOVE EXISTING STORM DRAIN MANHOLE.
7. SALVAGE HINGED MANHOLE COVER AND FRAME.
8. INSTALL SALVAGED HINGED MANHOLE COVER AND FRAME ON NEW MANHOLE PER DETAIL 2, DWG SD04.
9. CAP PROPOSED STORM DRAIN WITH RCP PLUG PER DETAIL 4 DWG SD04.
10. CONNECT TO EXISTING STORM DRAIN WITH CONCRETE COLLAR PER DETAIL 3, DWG. SD04.

NOTES

1. CONTRACTOR TO TAKE ALL NECESSARY STEPS AND PRECAUTIONS TO ENSURE EXISTING UTILITIES AND STRUCTURES TO REMAIN STABLE AND IN PLACE DURING STORM DRAIN CONSTRUCTION.
2. ALL PIPE LENGTHS MEASURED ALONG PIPE CENTERLINE TO GRADE BREAK OR TO THE INSIDE EDGE OF THE DROP INLET, RCB, OR STRUCTURE.
3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USD #421.

EXISTING UTILITIES ARE LOCATED ON THE PLANS FROM A SEARCH OF AVAILABLE RECORDS. CONTRACTOR TO VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION

Jason N. Thackery

Las Vegas Valley Water District Planning and Engineering Services

PROJECT NO. 138967 FIRST APPROVED DATE: 4/5/2021

NO.	DATE	REVISIONS

PREPARED BY

CITY OF LAS VEGAS NEVADA

HORROCKS ENGINEERS

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PREPARED FOR
CITY OF LAS VEGAS

BID# 21.MWA193
H# 69743
DESIGNED BY: SMB
DATE: 3/14/2021
DRAWN BY: DJE
SUBMITTAL STAGE: **Final Submittal**
CHECKED BY: WEH

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD
SHEET
STORM DRAIN PLAN AND PROFILE
PINTO LANE

PROFESSIONAL ENGINEER
STATE OF NEVADA
STEVEN M. BELLINO
EXP. 12-31-22
CIVIL
No. 19040
03/15/2021

SHEET
SD02
28 OF 42
DRAWING NO.
107V8023-1

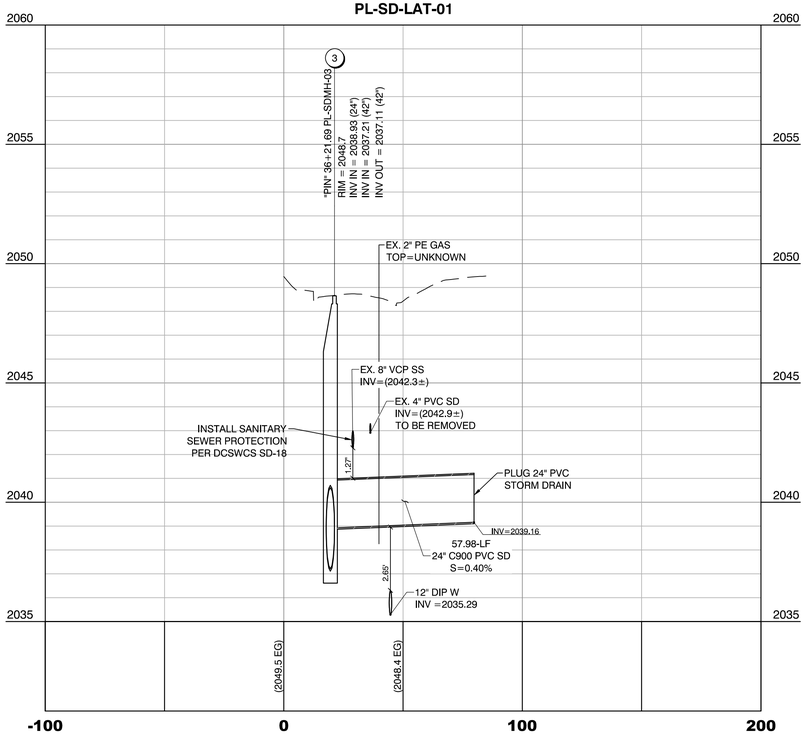
ISSUED FOR CONSTRUCTION

C:\Users\steveb\Desktop\Pinto Storm Drain\Sheet Set\DWG\HSSS13-PSD02 *3-14-21 06:12pm

NORTH

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)

PL-SD-LAT-01



APPROVED FOR CONSTRUCTION
Jason A. Shankey
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 138967 FIRST APPROVED DATE: 4/5/2021

NO.	DATE	REVISIONS

PREPARED BY
CITY OF LAS VEGAS
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PREPARED FOR
CITY OF LAS VEGAS
H# 69743
DATE: 3/03/2021
SUBMITTAL STAGE: Final Submittal
BID# 21.MWA193
DESIGNED BY: SMB
DRAWN BY: DJE
CHECKED BY: WEH

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

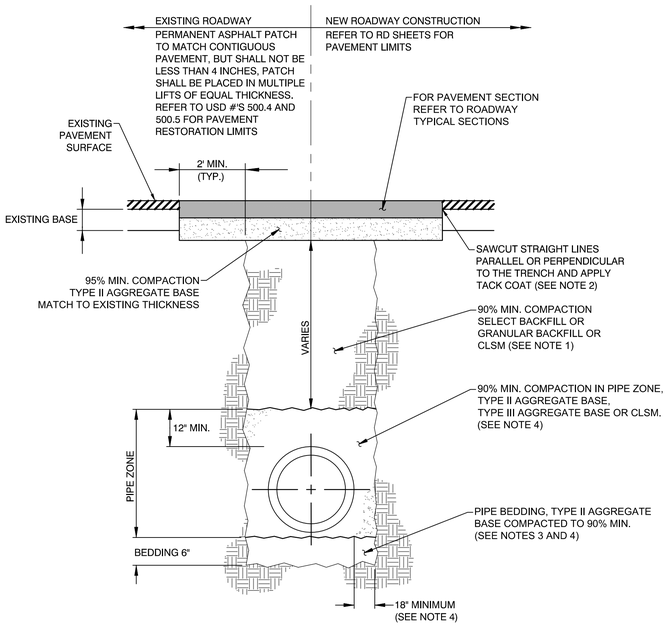
SHEET
STORM DRAIN
LATERAL PROFILES

PROFESSIONAL ENGINEER
STATE OF NEVADA
STEVEN M. BELLINO
EXP. 12-31-22
CIVIL
No. 19040
03/03/2021

SHEET
SD03
29 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

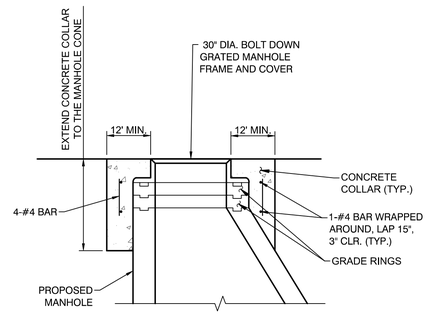
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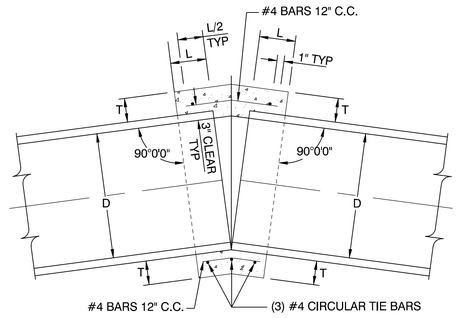
NOTES

1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
2. IF SAWCUT IS WITHIN THREE FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
3. NATIVE SOILS BELOW PIPE BEDDING SHALL BE MOISTURE CONDITIONED, AND COMPACTED TO 90% RELATIVE COMPACTION, AS EVALUATED BY ASTM D1557, UNLESS EXPOSED SOILS AT THE BASE OF THE TRENCH ARE LOOSE, SOFT, OR DISTURBED BY EXCAVATION OPERATIONS IN WHICH CASE THESE SOILS SHALL BE SCARIFIED TO A DEPTH OF 6-INCHES, MOISTURE CONDITIONED, AND COMPACTED TO 95 PERCENT RELATIVE COMPACTION, AS EVALUATED BY ASTM D1557.
4. WHERE C900 PVC STORM DRAIN IS INSTALLED, CLSM SHALL BE USED.

1 / - **TYPICAL RCP TRENCH SECTION**
SCALE: N.T.S.



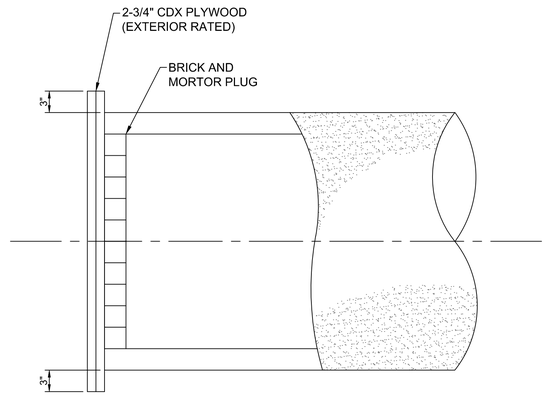
2 / - **BOLT DOWN, GRATED MH COVER AND FRAME INSTALLATION**
SCALE: N.T.S.



PLAN VIEW

D	18"	24"	30"	36"	42"	48"	60"	72"
T	5"	6"	7"	8"	9"	10"	12"	14"
L	12"	12"	18"	18"	24"	24"	30"	36"

3 / - **CONCRETE COLLAR DETAIL**
SCALE: N.T.S.



4 / - **RCP PIPE PLUG DETAIL**
SCALE: N.T.S.

REVISIONS

NO.	DATE

PREPARED BY
CITY OF LAS VEGAS
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PREPARED FOR
CITY OF LAS VEGAS
H# 69743
DATE: 3/03/2021
SUBMITTAL STAGE: Final Submittal
BID# 21.MWA193
DESIGNED BY: SMB
DRAWN BY: DJE
CHECKED BY: WEH

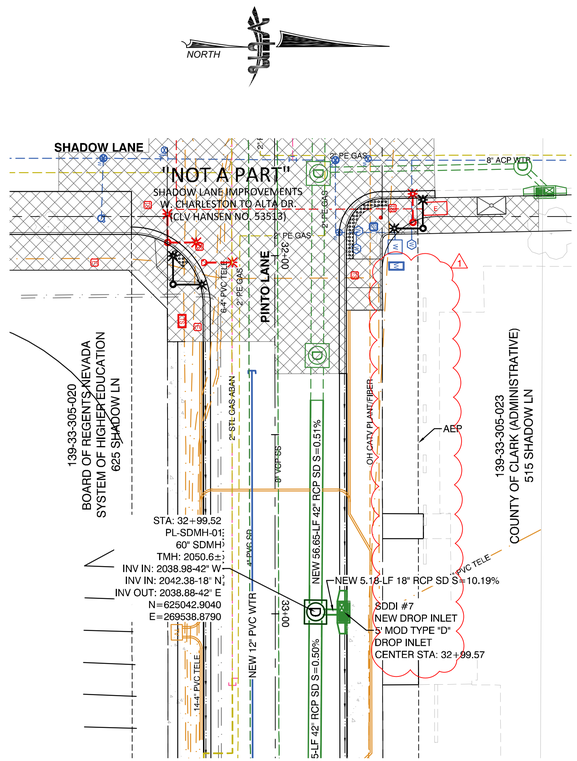
TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD
SHEET
STORM DRAIN DETAILS

PROFESSIONAL ENGINEER
STATE OF NEVADA
STEVEN M. BELLINO
EXP. 12-31-22
CIVIL
No. 19040
03/03/2021

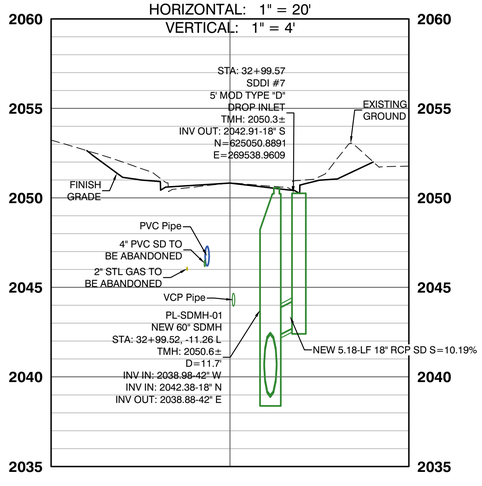
SHEET
SD04
30 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

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SD LAT - STA: PIN 32+27.79
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 4'



GRAPHIC SCALE

20 0 10 20 40

1" = 20'

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

APPROVED FOR CONSTRUCTION

Jason N. Ghadery 6/15/2021 1

Las Vegas Valley Water District Planning and Engineering Services

Project No. 138967 First Approved Date: 4/5/2021

NO.	DATE	SHEET REVISIONS
1	5/26/21	REVISED PER ADDENDUM 1
		Jason N. Ghadery LVVWD 6/15/2021

PREPARED BY
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH: (702) 873-7550
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PROFESSIONAL ENGINEER STATE OF NEVADA
MELISSA L MURPHY
EXP: 12/31/21
CIVIL
No. 18493
6-1-2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
H # 69743

DATE: FEBRUARY 2021
DESIGNED BY: ----
DRAWN BY: ----
CHECKED BY: MM

SUBMITTAL STAGE: 100% FINAL

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS
PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

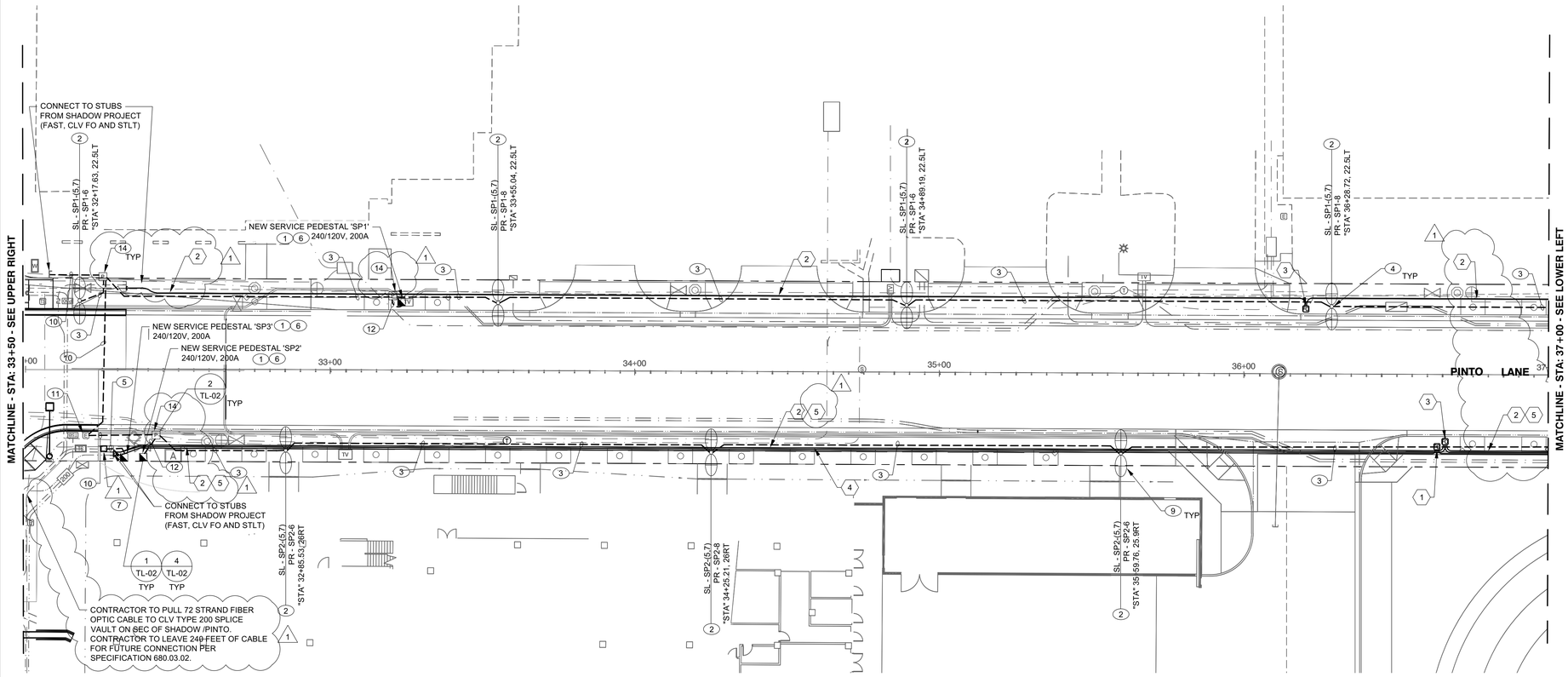
SHEET
STORM DRAIN PLAN AND PROFILE

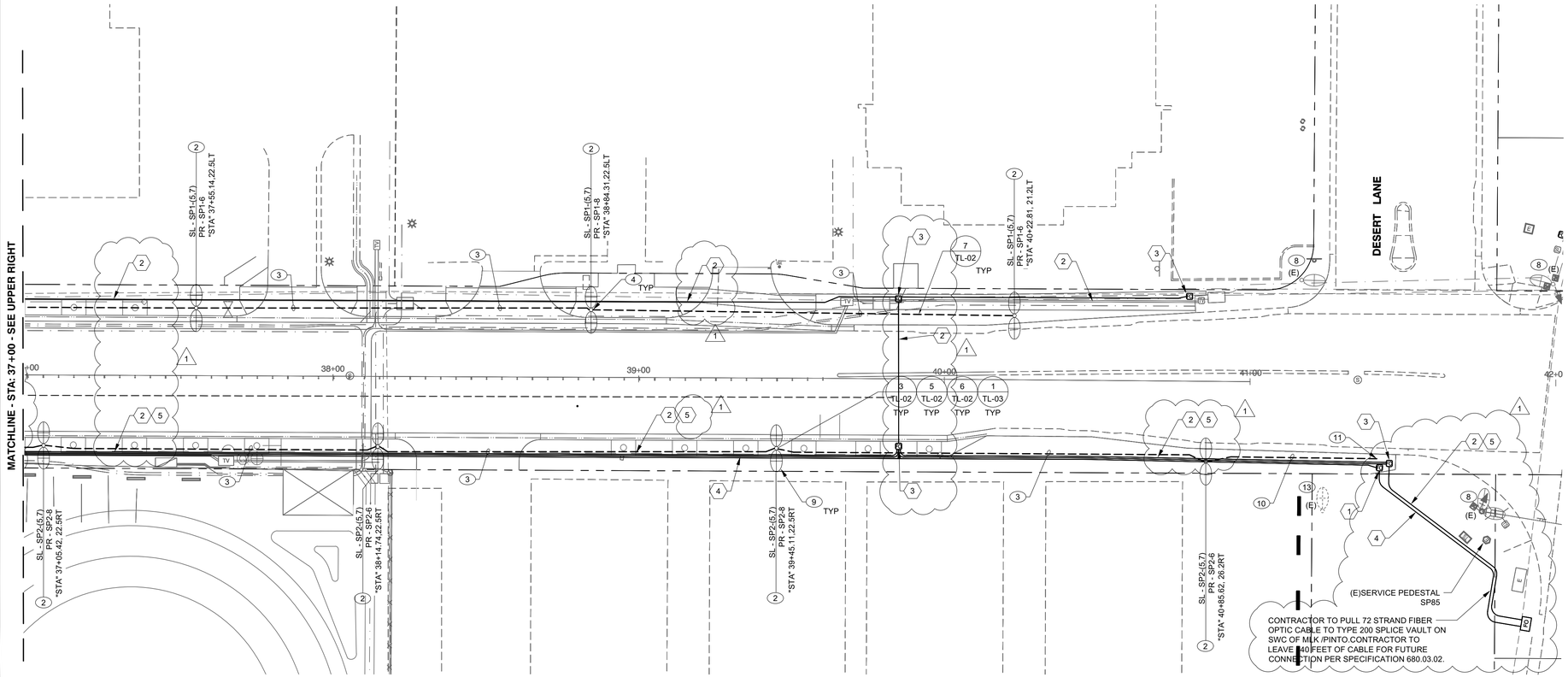
SHEET
SD-05
31 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

6/14/21 H:\78467_PRODUCTION\PHASE 1\H69743SD-1.DWG





NORTH

GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1" = 20'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6611
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

CONSTRUCTION KEY NOTES

GENERAL NOTES:

- 120/240V SERVICE PEDESTAL. SEE DIAGRAM 1/TL-02 FOR MORE INFORMATION.
- (P) ELECTRICAL PULLBOX. SEE DIAGRAM 2/TL-02 FOR MORE INFORMATION.
- (#) IRRIGATION CONTROLLER. # DENOTES CONTROLLER NUMBER. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR MORE INFORMATION.
- DECORATIVE DOUBLE ARM CITY OF LAS VEGAS 21' STREET LED LIGHT POLE. REFER TO UNIFORM STANDARD DWG. #342. PROVIDE WITHOUT THE "V" SCROLL.

KEY NOTES: (#)

1. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION AND DIAGRAM 4/TL-02 FOR MORE INFORMATION.
2. REFER TO DIAGRAM 3/TL-02 FOR CONDUCTOR INSTALLATION AND FOR FURTHER INFORMATION.
3. 3#4 (RECEPTACLES), 2#4 (LIGHTS) AND 1#6 (GND) IN 2"C.
4. INSTALL DECORATIVE STREET LIGHT ASSEMBLY AND FOUNDATION. REFER TO USDCCA DWG NO 342 FOR ADDITIONAL INFORMATION.
5. 2#10 (IR CONTROLLER) AND 1#10 (G) IN 1 1/4".
6. INSTALL 200A SERVICE PEDESTAL.
7. PROVIDE POWER CONNECTION TO IRRIGATION CONTROLLER (SP3-2). REFER TO CIVIL DRAWING FOR EXACT LOCATION.
8. (E) STREET LIGHT TO REMAIN.
9. PROVIDE AND INSTALL LIGHT FIXTURE ON BOTH SIDES OF THE POLE AS SPECIFIED (LSI INDUSTRIES,INC HLN-2-18L-30 (ROADWAY SIDE) HLN-2-10L-30 (PEDESTRIAN SIDE) OR APPROVED EQUIVALENT). CONTRACTOR TO PROVIDE ALL REQUIRED MOUNTING HARDWARE FOR COMPLETE INSTALLATION.
10. 2" CONDUIT ONLY. PROVIDE WITH PULL STRING.
11. INTERCEPT (E) PULL BOX AND INSTALL/TERMINATE CONDUIT.
12. PROVIDE ONE (1) 2" C.O AND 3#4 (RECEPTACLES), 2#4 (LIGHTS) AND 1#6 (GND) IN 2"C.
13. REMOVE (E) STREET LIGHT POLE/ LUMINARIE (POWERED FROM (E) SP85-9,11 AT 602 S MLK BLVD) AND SALVAGE TO THE CITY OF LAS VEGAS. REMOVE FOUNDATION TO A MINIMUM 18" BELOW PROPOSED GRADE. INSTALL NO 3-1/2 PULL BOX AT THE LOCATION AND SPLICE CONDUCTORS WITHIN THE PULL BOX. MAINTAIN ELECTRICAL INTEGRITY OF THE CIRCUIT DOWNSTREAM.
14. FURNISH AND INSTALL NO. 5 PULL BOX PER USDCCA STD. DWG. NO. 706 WITH STREET LIGHT" INSCRIBED ON COVER.

ITS AND SMART CITY CONSTRUCTION NOTES: (#)

1. FURNISH AND INSTALL P30 PULL BOX PER USDCCA STD. DWG. NO. 761 WITH "FIBER OPTIC" INSCRIBED ON COVER.
2. FURNISH AND INSTALL TWO 4-INCH PVC CONDUITS (CLV FO) WITH #8 AWG THW GREEN BOND GROUND CONDUCTOR.
3. FURNISH AND INSTALL P30 PULL BOX PER USDCCA STD. DWG. NO. 761 WITH "FIBER OPTIC CLV" INSCRIBED ON COVER.
4. PROVIDE AND INSTALL FAST 4" INTERCONNECT CONDUIT WITH 6-PAIR, REA-PE-39, NO.22 AWG TWISTED WIRE PAIR CABLE OR EQUAL.
5. INSTALL 72 STRAND FIBER OPTIC CABLE IN ONE CLV FO CABLE BETWEEN CLV TYPE 200 SPLICE VAULT AT SEC OF SHADOW AND TYPE 200 SPLICE VAULT AT SWC OF MLK FOR FUTURE USE AS SHOWN. LEAVE 240 FEET EXCESS CABLE IN END SPLICE VAULTS PER SPECIFICATION 680.03.02.

LEGEND:

PR = POLE RECEPTACLE
SL = STREET LIGHT

NO.	DATE	SHEET	REVISIONS
1	05/26/21		REVISED PER ADDENDUM 1

PREPARED BY
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PROFESSIONAL ENGINEER - STATE OF NEVADA
ROGELIO ESPARZA
EXP. 12-31-22
ELECTRICAL
No. 23765
06/10/2021

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
LIGHTING PLANS

PREPARED FOR
CITY OF LAS VEGAS

DATE:	FEBRUARY 2021
DESIGNED BY:	TJK
DRAWN BY:	TJK
CHECKED BY:	TJK
BID #	21.MWA193.01
H #	69743
SUBMITTAL STAGE:	FINAL

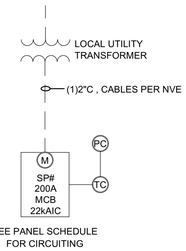
tjk consulting engineers, inc.
8728 Spanish Ridge Avenue
Suite 100
Las Vegas, NV 89148
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www.tjkengineers.com

TJK # 18145 6/10/2021 2:21 PM

SHEET
TL-01
32 OF 42

DRAWING NO.
107V8023-1

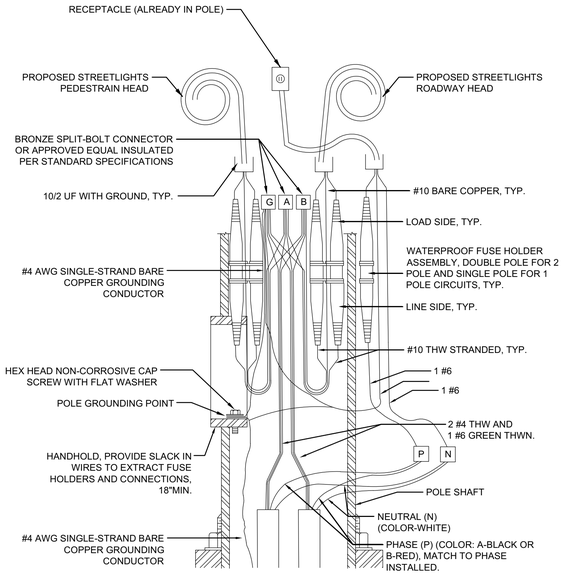
6/10/21 J:\2018\18145 CLV PINTO LANE STREETSCAPE IMPROVEMENTS\07 PINTO LANE - PHASE 1\CAD\2 SHEETS\ELEC\TRICAL\TL-01 LIGHTING PLANS.DWG



SEE PANEL SCHEDULE FOR CIRCUITING

4 TYPICAL ONELINE SERVICE PEDESTAL

SCALE: NOT TO SCALE



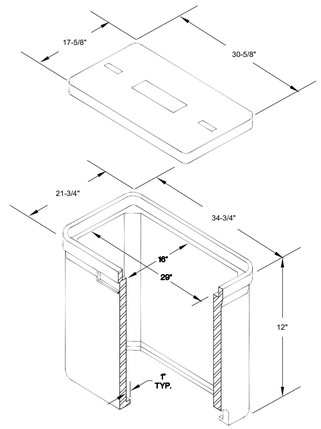
3 LIGHT POLE WIRING DIAGRAM

SCALE: NOT TO SCALE

GENERAL NOTES (THIS DIAGRAM ONLY):

1. PROVIDE SIGNAGE ON INSIDE OF HANDHOLE INDICATING 2 SEPERATE CIRCUITS FEEDING LIGHT POLE. REFER TO CIVIL DRAWINGS FOR ADDITIONAL WIRE AND CONDUIT SIZE INFORMATION.

LABELS:
(SP-X1-N1), (SP-X1-N2)
X1= SERVICE PEDESTAL ID
N1= STREETLIGHT CIRCUIT ID
N2= RECEPTACLE CIRCUIT ID

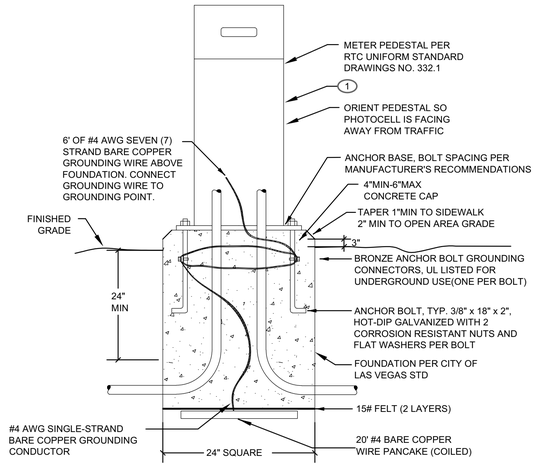


2 TYPICAL #5 PULLBOX DIAGRAM

SCALE: NOT TO SCALE

GENERAL NOTES (THIS DIAGRAM ONLY):

1. CITY OF LAS VEGAS MINIMUM SIZE PULLBOX No. #5.
2. PROVIDE FACTORY IMPRINTED "ELECTRICAL."
3. EXTEND ALL CONDUITS A MINIMUM OF 3" ABOVE BOTTOM OF BOX, ALL WIRES A MINIMUM OF 24" OUTSIDE OF BOX.
4. LID SHALL BE APPROVED NON-METALIC POLYMER TYPE MATERIAL (NO CONCRETE, NO METAL, NO FIBERLITE, NO OTHER MATERIALS - NO SUBSTITUTIONS)
5. SEE SPECIFICATION FOR ADDITIONAL INFORMATION ON APPROVED SPLICES AND PULLBOX INSTALLATION AND GROUNDING REQUIREMENTS.

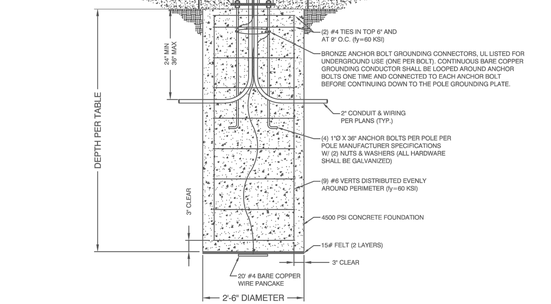


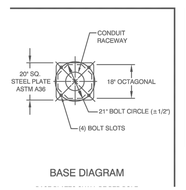
1 TYPICAL SERVICE PEDESTAL DIAGRAM

SCALE: NOT TO SCALE

NOTES (THIS DIAGRAM ONLY):

1. REFER TO SPECIFICATIONS OR OWNER COLOR TO PAINT THE SERVICE PEDESTAL.





BASE DIAGRAM

FOUNDATION DEPTH				
POLE & ARM CONFIGURATION	SOIL TYPE			
	SAND/GRAVEL (=30°, γ=110pcf)	STIFF CLAY (C=1.0)	MEDIUM CLAY (C=0.60)	SOFT CLAY (C=0.25)
21' TALL WITH 1 OR 2 ARMS UP TO 10' EACH	5'-3"	6'-6"	7'-4"	9'-6"
26' TALL WITH 1 ARM UP TO 12'	5'-9"	6'-9"	7'-8"	8'-6"
26' TALL WITH 2 ARMS UP TO 12' EACH	6'-3"	7'-3"	8'-4"	10'-0"

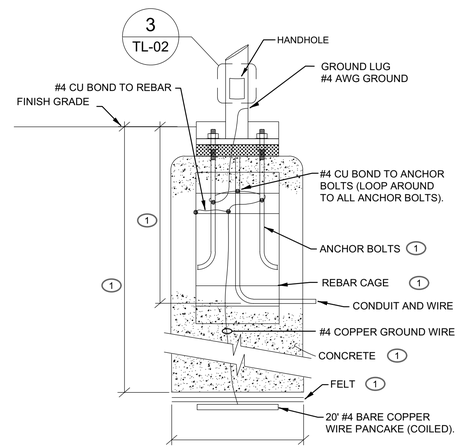
NOTES:
1. C = COHESION MEASURED IN KIPS PER SQUARE FOOT.
2. CONTRACTOR SHALL DETERMINE SOIL TYPE BY TAKING UNDISTURBED SAMPLES AS REQUIRED BY THE CITY ENGINEER.
3. ANALYSIS BY PROFESSIONAL STRUCTURAL ENGINEER ON FILE WITH CITY ENGINEER.

5 POLE BASE DETAIL

NOT TO SCALE

DETAIL NOTES:

1. GROUND IS FOR REFERENCE ONLY. REFER TO DETAIL 6/TL-02 FOR GROUNDING REQUIREMENTS.

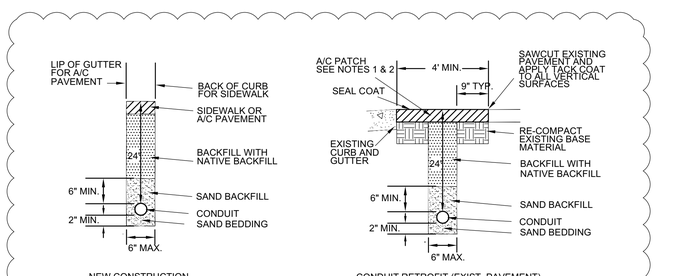


6 ELECTRICAL GROUNDING FOR POLE FOUNDATION

NOT TO SCALE

DETAIL NOTES:

1. SEE CITY OF LAS VEGAS DETAIL (5/TL-02) FOR FOUNDATION DESIGN OF REBAR AND CONCRETE DEPTHS.



7 TRENCH DETAIL

NOT TO SCALE

GENERAL NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR CONDUIT AND CONDUCTOR SIZES.
2. REFER TO USDCCA DRAWING 733 FOR ADDITIONAL DESIGN REQUIREMENTS

1

NO.	DATE	SHEET	REVISIONS
1	05/26/21		REVISED PER ADDENDUM 1

PREPARED BY

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tjk consulting engineers, PLLC
TJK # 16145

6/10/2021 2:21 PM

PROFESSIONAL ENGINEER STATE OF NEVADA
ROGELIO ESPARZA
EXP. 12-31-22
ELECTRICAL
No. 23765
06/10/2021

TITLE: PINTO LANE STREETSCAPE IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

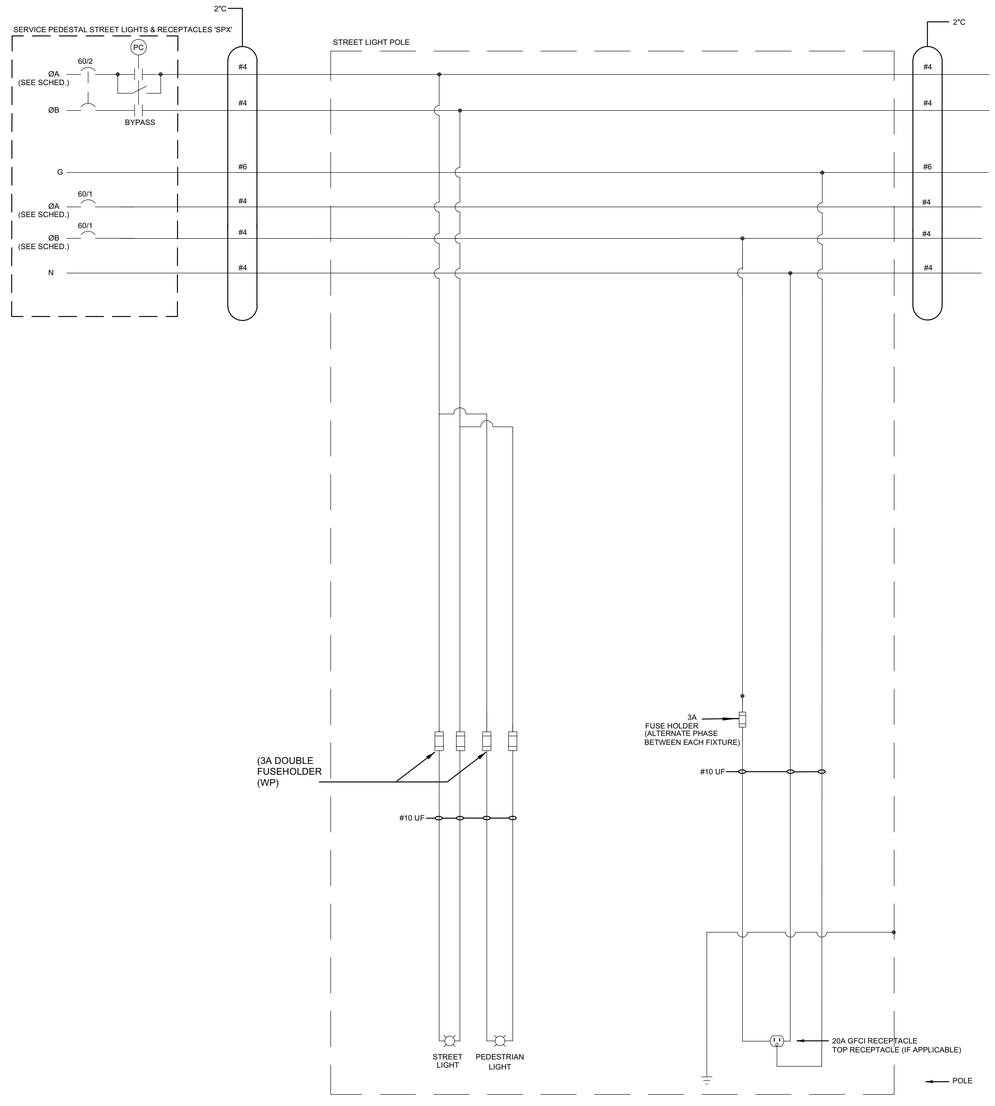
SHEET: ELECTRICAL DIAGRAMS

PREPARED FOR: CITY OF LAS VEGAS

BID #	21.MWA193.01	DATE:	FEBRUARY 2021
H #	69743	DESIGNED BY:	TJK
SUBMITTAL STAGE:	FINAL	DRAWN BY:	TJK
		CHECKED BY:	TJK

SHEET TL-02
33 OF 42
DRAWING NO. 107V8023-1

6/10/21 J:\2018\18145 CLV PINTO LANE STREETSCAPE IMPROVEMENT\100 PINTO LANE - PHASE 1\CAD\2 SHEETS\ELECTRICAL\TL-02 ELECTRICAL DIAGRAMS.DWG



1 TL-03 TYPICAL STREET LIGHT POLE WIRING DIAGRAM

NOT TO SCALE:

GENERAL NOTES (THIS DETAIL ONLY):

1. PROVIDE SIGNAGE ON INSIDE OF HANDHOLE INDICATING 2 SEPERATE CIRCUITS FEEDING LIGHT POLE. REFER TO CIVIL DRAWINGS FOR ADDITIONAL WIRE AND CONDUIT SIZE INFORMATION.

LABELS:
(SP-X1-N1), (SP-X1-N2)
X1= SERVICE PEDESTAL ID
N1= STREETLIGHT CIRCUIT ID
N2= RECEPTACLE CIRCUIT ID

NO.	DATE	SHEET	REVISIONS

PREPARED BY

8728 Spanish Ridge Avenue
Suite 100
Las Vegas, NV 89148
P: 702.871.3821
F: 702.871.4821
www.tjkengineers.com

tjk consulting engineers, inc.

4/2/2021 8:02 AM

TJK # 16145

PROFESSIONAL ENGINEER STATE OF NEVADA
ROGELIO ESPARZA
EXP. 12-31-22
ELECTRICAL
No. 23765
04/02/2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
H # 69743

DATE: FEBRUARY 2021
DESIGNED BY: TJK
DRAWN BY: TJK
CHECKED BY: TJK
SUBMITTAL STAGE: FINAL

TITLE
PINTO LANE STREETSCAPE
IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
ELECTRICAL DIAGRAMS

SHEET
TL-03
34 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

4/2/21 J:\JOB\1945 CLV PINTO LANE STREETSCAPE IMPROVEMENTS\100 PINTO LANE - PHASE 1\CAD\1 SHEETS\ELECTRICAL\TL-03 ELECTRICAL DIAGRAMS.DWG

SERVICE PANEL SP3, 1 PH , 3 WIRE, 120/240 VOLTS 200 AMP MAIN CB
MIN INTERRUPTING RATING 22K RMS SYM AMPS LOCATION: (SEE SITE PLAN) NEMA 3R

L=LIGHTS, R=RECEPTACLES, M=MECHANICAL EQUIPMENT, SO=SPACE ONLY, SC=SPARE CIRCUIT, E=EXISTING, G=GFI BREAKER
MLO=MAIN LUGS ONLY, MCB=MAIN CIRCUIT BREAKER, N=NEW

POLE SPACE CKT #	POLE SPACE CKT #	CIRCUIT USE	CKT BKR RATING	CONNECTED LOAD VA A	CONNECTED LOAD VA B	CKT BKR RATING	CIRCUIT USE	POLE SPACE CKT #	POLE SPACE CKT #
		MAIN	200/2		----		SPACE		
		X	X	----			SPACE		
1	1	SPARE	30/2	0	----				
3	3	X	X	540	----	20	IR CONTROLLER	2	2
5	5	CONTROLS	20	----	0		SPACE	4	4
7	7	SPACE		500	----		SPACE	6	6
9	9	SPACE		----	0		SPACE	8	8
11	11	SPACE		0	----		SPACE	10	10
13	13	SPACE		----	0		SPACE	12	12
15	15	SPACE		0	----		SPACE	14	14
17	17	SPACE		----	0		SPACE	14	16
				0	----		SPACE	16	18
				1040	0				
				1040					

CONTACTOR SCHEDULE

CONTACTOR #	RATING	No. POLES	CKT #'S
C1	30	2	SP1-1,3

PROVIDE PHOTOCELL AND BYPASS SWITCH

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SERVICE PANEL SP2, 1 PH , 3 WIRE, 120/240 VOLTS 200 AMP MAIN CB
MIN INTERRUPTING RATING 22K RMS SYM AMPS LOCATION: (SEE SITE PLAN) NEMA 3R

L=LIGHTS, R=RECEPTACLES, M=MECHANICAL EQUIPMENT, SO=SPACE ONLY, SC=SPARE CIRCUIT, E=EXISTING, G=GFI BREAKER
MLO=MAIN LUGS ONLY, MCB=MAIN CIRCUIT BREAKER, N=NEW

POLE SPACE CKT #	POLE SPACE CKT #	CIRCUIT USE	CKT BKR RATING	CONNECTED LOAD VA A	CONNECTED LOAD VA B	CKT BKR RATING	CIRCUIT USE	POLE SPACE CKT #	POLE SPACE CKT #
		MAIN	200/2		----		SPACE		
		X	X	----			SPACE		
1	1	SPARE	40/2		----				
3	3	X	X	----		30	SPARE	2	2
5	5	SOUTHEAST ST LIGHTING (SHADOW LN TO DESERT	40/2	950	----				
7	7	X	X	----	950	30	SPARE	4	4
9	9	SPARE	30/2	0	----	30	SOUTHEAST ST RECEPT	6	6
11	11	X	X	----	0	30	SOUTHEAST ST RECEPT	8	8
13	13	CONTROLS	20	500	----		SPACE	10	10
15	15	SPACE		0	----		SPACE	12	12
17	17	SPACE		----	0		SPACE	14	14
				----	0		SPACE	14	16
				0	----		SPACE	16	18
				2170	1490				
				3660					

CONTACTOR SCHEDULE

CONTACTOR #	RATING	No. POLES	CKT #'S
C1	40	2	SP1-1,3
C2	40	2	SP1-5,7

PROVIDE PHOTOCELL AND BYPASS SWITCH

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SERVICE PANEL SP1, 1 PH , 3 WIRE, 120/240 VOLTS 200 AMP MAIN CB
MIN INTERRUPTING RATING 22K RMS SYM AMPS LOCATION: (SEE SITE PLAN) NEMA 3R

L=LIGHTS, R=RECEPTACLES, M=MECHANICAL EQUIPMENT, SO=SPACE ONLY, SC=SPARE CIRCUIT, E=EXISTING, G=GFI BREAKER
MLO=MAIN LUGS ONLY, MCB=MAIN CIRCUIT BREAKER, N=NEW

POLE SPACE CKT #	POLE SPACE CKT #	CIRCUIT USE	CKT BKR RATING	CONNECTED LOAD VA A	CONNECTED LOAD VA B	CKT BKR RATING	CIRCUIT USE	POLE SPACE CKT #	POLE SPACE CKT #
		MAIN	200/2		----		SPACE		
		X	X	----			SPACE		
1	1	SPARE	40/2		----				
3	3	X	X	----		30	SPARE	2	2
5	5	NORTHEAST ST LIGHTING (SHADOW TO DESERT LN)	40/2	950	----	30	SPARE	4	4
7	7	X	X	----	950	30	NORTHEAST ST RECEPT	6	6
9	9	CONTROLS		500	----	30	NORTHEAST ST RECEPT	8	8
11	11	SPACE		----	0		SPACE	10	10
13	13	SPACE		0	----		SPACE	12	12
15	15	SPACE		----	0		SPACE	14	14
17	17	SPACE		----	0		SPACE	14	16
				0	----		SPACE	16	18
				2170	1490				
				3660					

CONTACTOR SCHEDULE

CONTACTOR #	RATING	No. POLES	CKT #'S
C1	40	2	SP1-1,3
C2	40	2	SP1-5,7

PROVIDE PHOTOCELL AND BYPASS SWITCH

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REVISIONS | NO. | DATE | SHEET

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4/2/2021 8:03 AM
TJK # 16145

PROFESSIONAL ENGINEER STATE OF NEVADA
ROGELIO ESPARZA
EXP. 12-31-22
ELECTRICAL
No. 23765
04/02/2021

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
H # 69743

DATE: FEBRUARY 2021
DESIGNED BY: TJK
DRAWN BY: TJK
CHECKED BY: TJK
SUBMITTAL STAGE: FINAL

TITLE
PINTO LANE STREETSCAPE
IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
PANEL SCHEDULES

SHEET
TL-04
35 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

4/2/21 J:\2018\18145 CLV PINTO LANE STREETSCAPE IMPROVEMENTS\D) PINTO LANE - PHASE 1\CAD\2 SHEETS\ELECTRICAL\TL-04 PANEL SCHEDULES.DWG

PLANTING NOTES

1. INSTALL DECORATIVE ROCK AND PRE-EMERGENT HERBICIDE IN ALL PLANTER AREAS. PROVIDE DECORATIVE ROCK SAMPLES FOR APPROVAL.
2. CONTRACTOR TO VERIFY THAT ALL NEW PLANT MATERIAL MEETS NURSERY TRADE STANDARDS BY PLANT SPECIES AND CONTAINER SIZE. PLANTS TO BE HEALTHY, THRIVING AND FULL. TREES WITH DAMAGED TRUNKS OR IMPROPER PRUNING WILL BE REJECTED BY THE OWNER'S REPRESENTATIVE.
3. THE QUANTITIES ON LEGEND ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL QUANTITIES.
4. ALL TREES MUST MEET MINIMUM CALIPER SIZE. MULTI-TRUNK TREES MUST HAVE THE MINIMUM CALIPER PER EACH TRUNK.
5. PLANT MATERIALS SHALL HAVE IDENTIFICATION TAGS ON 10% OF THE TOTAL QUANTITY EACH SPECIES, INCLUDING THE GENUS, SPECIES AND VARIETY.
6. NO POLES, PLANTERS, AND TREES SHALL BE LOCATED WITHIN 5 FEET OF WATERLINES, LATERALS, WATER METERS AND VAULTS. NO WATERLINES SHALL BE LOCATED UNDER CURB, GUTTER AND PAVERS. THIS NOTE DOES NOT APPLY TO PLANTING LINES. BRING ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE'S ATTENTION IMMEDIATELY. ANY WATERLINES THAT ARE SHOW ARE FOR REFERENCE ONLY. SEE UTILITY SHEETS FOR UTILITY INFORMATION.
7. PRIOR TO BEGINNING WORK, CONTRACTOR TO INVENTORY EXISTING CONDITIONS AND EXISTING UTILITY LOCATIONS. CONTRACTOR TO PROTECT IN PLACE EXISTING UTILITIES. CONTRACTOR TO USE CAUTION. CALL BEFORE YOU DIG AND CALL BEFORE YOU OVER HEAD.
8. PROTECT IN PLACE ALL TREES AND LANDSCAPE ADJACENT TO AND OUTSIDE LIMITS OF PROJECT IMPROVEMENTS. CONTRACTOR SHALL REPLACE ALL PLANTS DAMAGED DUE TO CONSTRUCTION WITH PLANTS OF THE SAME GENIUS, SPECIES, VARIETY, SIZE AND FORM AT THE CONTRACTOR'S EXPENSE .
9. CONTRACTOR TO VERIFY THAT EXISTING TREES TO REMAIN WILL NOT BE DAMAGED BY DEMOLITION OR CONSTRUCTION. IF ANY ARE IN DANGER, IDENTIFY THEM AND NOTIFY THE OWNER'S REPRESENTATIVE.
10. CONTRACTOR MAY NEED TO CONTRACT PLANTS IN ORDER TO MEET QUANTITY NECESSARY FOR PROJECT.
11. BRING ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE'S ATTENTION IMMEDIATELY.

CONSTRUCTION KEY NOTES

PLANT SCHEDULE

TREES	BOTANICAL / COMMON NAME	CONT	QTY
	OLEA EUROPAEA `SWAN HILL` CERTIFIED FRUITLESS OLIVE STANDARD TRUNK, MIN. 4-INCH CALIPER	48" BOX	9 (1)
	QUERCUS FUSIFORMIS ESCARPMENT OAK STANDARD TRUNK, MIN. 4-INCH CALIPER	48" BOX	17
	ULMUS CRASSIFOLIA CEDAR ELM STANDARD TRUNK, MIN. 4-INCH CALIPER	48" BOX	8
EXISTING TREES	**BOTANICAL / COMMON NAME**	**CONT**	**QTY**
	EXISTING PALM - TO REMAIN	EXISTING PALM	12
	EXISTING TREE - TO REMAIN	EXISTING TREE	21

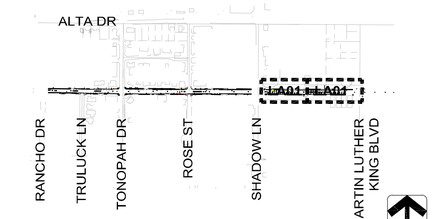
SITE FURNITURE

SYMBOL	ITEM	DESCRIPTION	QTY.	DETAIL
	TREE GRATE	5'-X8' CAST IRON TREE GRATE. IRONSMITH MODEL 9638 OLYMPIAN TREE GRATE WITH 24" OPENING, FRAME MODEL 60X96F-CS AND LIGHT WELLS. CAST IRON MATERIAL WITH IRONSMITH STANDARD CARDINAL T241-BK59 BLACK TEXTURE SEMI-GLOSS TGIC POLYESTER POWDER COAT (OR APPROVED EQUAL). INSTALL TREE GRATE AND POWDER COAT PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS. IRONSMITH (800-338-4766).	34 EA (1)	H,I SHEET LA-02 A,B SHEET LA-03

ROCK AND SOIL

SYMBOL	DESCRIPTION	QTY.	DETAIL
NOT SHOWN	DECORATIVE ROCK: SIZE 1/4" MINUS; 2" MIN. DEPTH; COLOR: APACHE BROWN OR APPROVED EQUAL. AVAILABLE THROUGH KALAMAZOO MATERIALS, INC.: 702.296.9131. INSTALL IN ALL TREE WELLS AND PLANTER AREAS.	8 CY	F, SHEET LA-02
NOT SHOWN	ADDITIONAL DECORATIVE ROCK TO MATCH EXISTING ON SITE: SIZE: VARIES PER LOCATION, CONTRACTOR TO VERIFY IN FIELD; 2" MIN. DEPTH; COLOR: VARIES PER LOCATION, CONTRACTOR TO VERIFY IN FIELD INSTALL PER CALLOUTS ON SHEET LA-01	1.5 CY (1)	
	ENGINEERED SOIL. INSTALL ENGINEERED SOIL BENEATH CONCRETE PER CITY OF LAS VEGAS STANDARDS. SEE SPECIFICATIONS.	630 CY	B, SHEET LA-02
	EXISTING LANDSCAPE, INCLUDING SHRUBS AND DECORATIVE ROCK. PROTECT IN PLACE. INSTALL NEW DECORATIVE TO MATCH EXISTING WHERE EXISTING PLANTER ROCK IS DISTURBED.	(1)	
NOT SHOWN	GEOTECHNICAL FILTER FABRIC. SEE DETAIL FOR LOCATION.	5,574 SF	B, SHEET LA-02

QUANTITIES ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL QUANTITIES.



KEY MAP

SCALE: NTS

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6075
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

N:\JOBS\8-69\69743\PINTO LANE STREETSCAPE IMPROVEMENTS\DWG\SHEETS\69743-LA00-1.DWG

6/7/21

NO.	DATE	SHEET	REVISIONS
1	6/8/21		REVISED PER ADDENDUM 1

PREPARED BY
southwick
LANDSCAPE ARCHITECTS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH.: (702) 873-7550
FAX (702) 362-2697 WEB SITE
WWW.VTNNV.COM

REGISTERED LANDSCAPE ARCHITECT
MATT DURHAM
895
Expires: 6-30-21
STATE OF NEVADA

TITLE: PINTO LANE STREETSCAPE IMPROVEMENTS - PHASE 1 SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET: PLANTING LEGEND & NOTES

PREPARED FOR: CITY OF LAS VEGAS

DATE: NOVEMBER 2020 | DESIGNED BY: JWV | DRAWN BY: JWV | CHECKED BY: MED

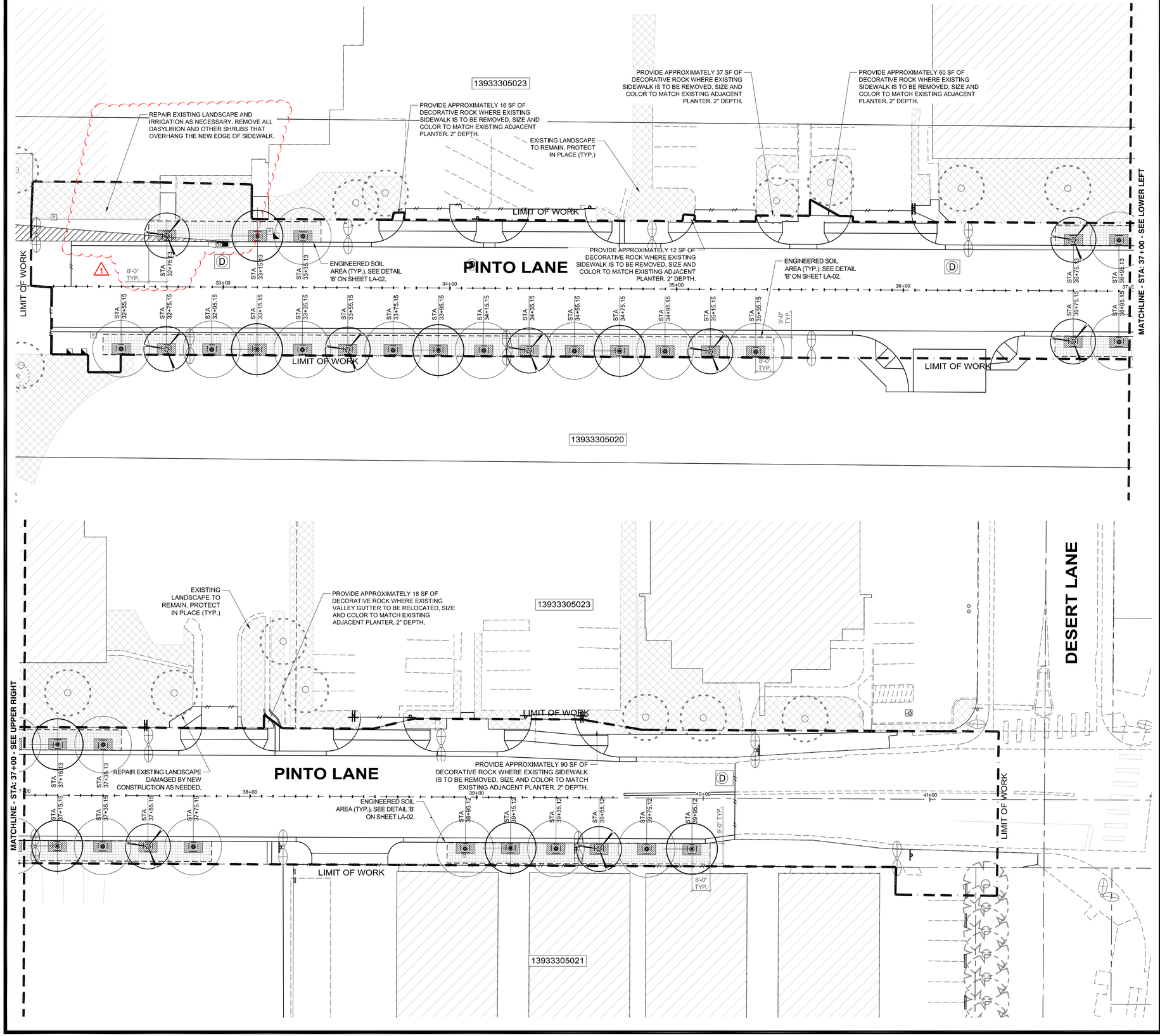
BID # 21:MWA193.01 | H # 69743 | SUBMITTAL STAGE: 100% FINAL

SHEET LA-00

36 OF 42

DRAWING NO. 107V8023-1

ISSUED FOR CONSTRUCTION



NORTH

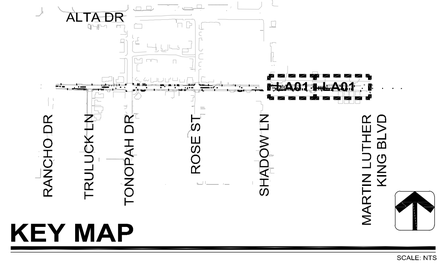
GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1" = 20'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6075
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

CONSTRUCTION KEY NOTES

1. SEE SHEET LA-00 FOR PLANTING LEGEND.



KEY MAP

SCALE: NTS

NO.	DATE	REVISIONS
1	6/8/21	REVISED PER ADDENDUM 1

PREPARED BY
southwick
LANDSCAPE ARCHITECTS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550
FAX (702) 362-2697 WEB SITE
WWW.VTNNV.COM

REGISTERED LANDSCAPE ARCHITECT
MATT DURHAM
895
Expires: 6-30-21
STATE OF NEVADA

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
PLANTING PLAN

PREPARED FOR
CITY OF LAS VEGAS

BID # 21-MWA193.01	DATE: NOVEMBER 2020		
H # 69743	DESIGNED BY: JWV	DRAWN BY: JWV	CHECKED BY: MED
SUBMITTAL STAGE: 100% FINAL			

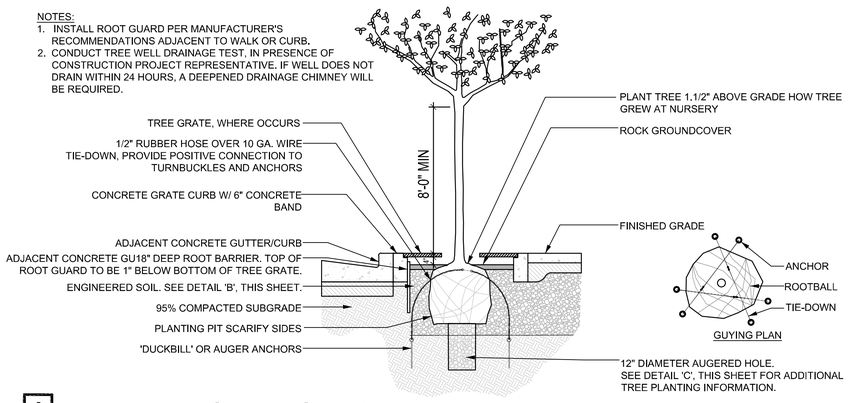
SHEET
LA-01
37 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

6/7/21 N:\JOBS\8-8686 PINTO LANE STREETSCAPE IMPROVEMENTS\DWG\SHEETS\69743-LA01-1.DWG

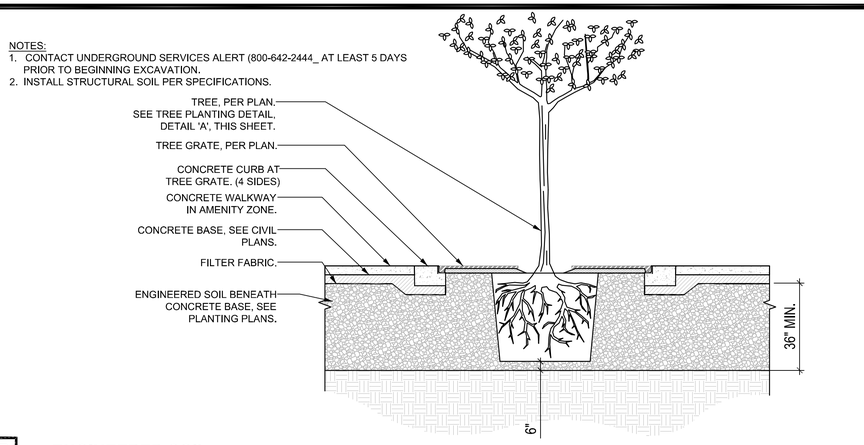
NOTES:
1. INSTALL ROOT GUARD PER MANUFACTURER'S RECOMMENDATIONS ADJACENT TO WALK OR CURB.
2. CONDUCT TREE WELL DRAINAGE TEST, IN PRESENCE OF CONSTRUCTION PROJECT REPRESENTATIVE. IF WELL DOES NOT DRAIN WITHIN 24 HOURS, A DEEPENED DRAINAGE CHIMNEY WILL BE REQUIRED.



A TREE PLANTING IN TREE GRATE WELL

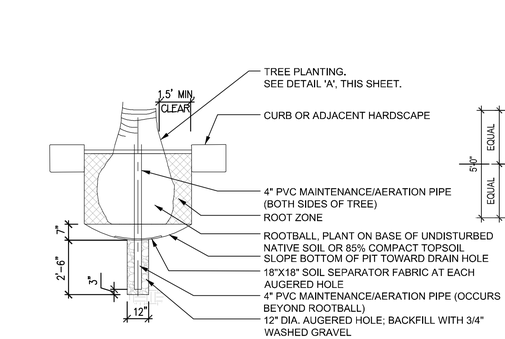
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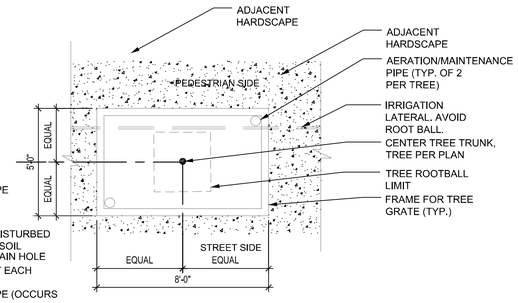
NOTES:
1. CONTACT UNDERGROUND SERVICES ALERT (800-642-2444_ AT LEAST 5 DAYS PRIOR TO BEGINNING EXCAVATION.
2. INSTALL STRUCTURAL SOIL PER SPECIFICATIONS.



B ENGINEERED SOIL

NTS





TREE PIT - PLAN VIEW

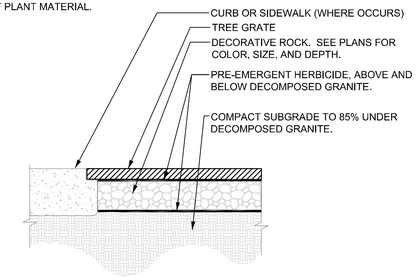
BACKFILL MIX FOR ALL TREES AND SHRUBS:

THE FOLLOWING MATERIALS ARE TO BE THOROUGHLY MIXED IN THE SOIL AREA OF THE PLANTING HOLE AND CONSIST OF THE FOLLOWING:

8 PARTS BY VOLUME IMPORT TOPSOIL (NO PARTICLE OVER 1.1/2" DIA.)
2 PARTS BY VOLUME ORGANIC SOIL CONDITIONER

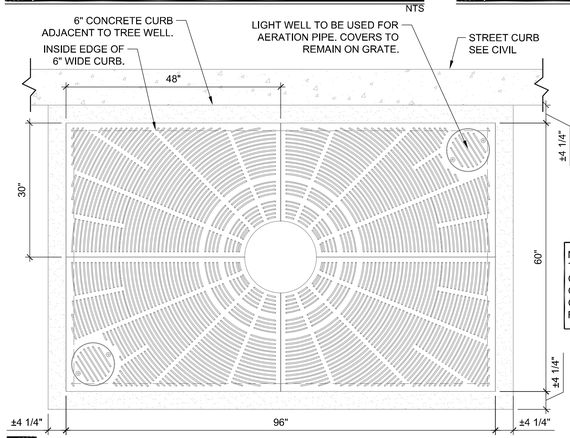
0.5 LB. 15-15-15 FERTILIZER PER CUBIC YARD OF MIX
0.5 LB. IRON SULFATE PER CUBIC YARD OF MIX
16 LBS. "GRO-POWER PLUS" FERTILIZER PER CUBIC YARD OF MIX
1 LB. SOIL SULFUR PER CUBIC YARD OF MIX

NOTES:
1. INSTALL AT LEAST THE THE MINIMUM LAYER OF DECORATIVE ROCK IN ALL TREE PLANTER AREAS WITHIN THE SCOPE OF WORK.
2. CONTRACTOR TO PROVIDE SAMPLES OF DECORATIVE ROCK FOR APPROVAL.
3. BEFORE PLACING ROCK, COMPACT SUB-GRADE TO 85% AND APPLY A PRE-EMERGENT HERBICIDE TO SOIL. AFTER PLACING ROCK: RAKE SMOOTH, WET TO ENTIRE DEPTH, ALLOW TO DRY, THEN LIGHTLY SCARIFY SURFACE WITH A LEAF RAKE. APPLY A SECONDARY APPLICATION OF PRE-EMERGENT HERBICIDE TO TOP OF ROCK.
4. INSTALL DECORATIVE ROCK TO BOTTOM OF TREE GRATE.
5. DO NOT ALLOW ROCK TO TOUCH THE TRUNK OF ANY TREE.
6. INSTALL DECORATIVE AFTER THE INSTALLATION OF PLANT MATERIAL.



C TREE DRAINAGE

NTS



NOTES:
1. TREE GRATE AVAILABLE THROUGH IRONSMITH OR APPROVED EQUAL. SEE PLANS FOR MODEL AND FINISH.
2. INSTALL TREE GRATE, FRAMES AND RELATED MECHANISMS PER MANUFACTURERS RECOMMENDATIONS.
4. CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL PRIOR TO FINAL ORDER FABRICATION.

NOTE:
THIS DETAIL IS FOR DESIGN INTENT ONLY. CONTRACTOR TO PROVIDE DRAWINGS FOR TREE GRATE AND FRAME, INCLUDING STRUCTURAL CALCULATIONS AND CUT SHEETS TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.

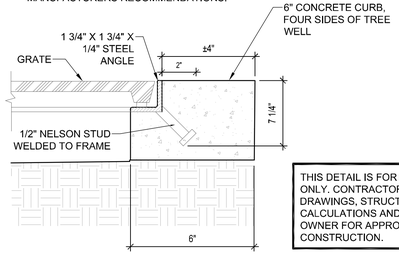
D TREE PIT

NTS

E SOIL MIX NOTE

NTS

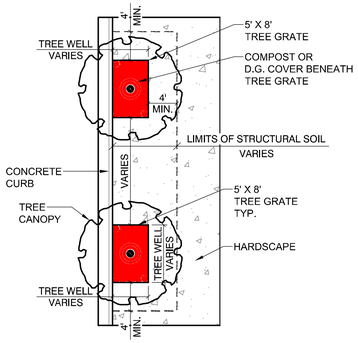
NOTE:
1. INSTALL TREE GRATE, FRAMES, ANCHORS AND RELATED MECHANISMS PER MANUFACTURERS RECOMMENDATIONS.



THIS DETAIL IS FOR DESIGN INTENT ONLY. CONTRACTOR TO PROVIDE DRAWINGS, STRUCTURAL CALCULATIONS AND CUT SHEETS TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.

F DECORATIVE ROCK (TREE GRATE)

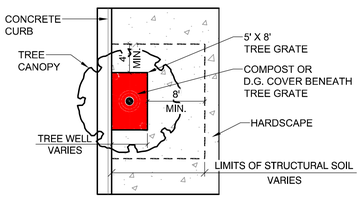
NTS



MULTIPLE TREES

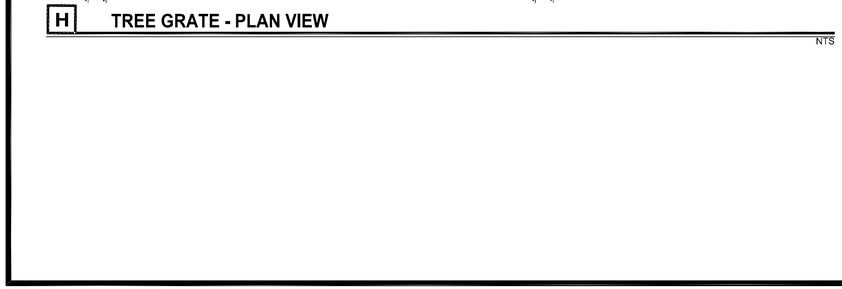
G NOT USED

NTS



SINGLE TREE

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. PERFORM PERCOLATION TEST ON PLANTING PIT PER SPECIFICATIONS.
3. DO NOT APPLY WATER TO THE STRUCTURAL SOIL UNLESS THE FILTER FABRIC & TOP DRESSING ARE IN PLACE.
4. PROTECT STRUCTURAL SOIL FROM CONSTRUCTION ACTIVITIES UNTIL HARDSCAPE IS IN PLACE



H TREE GRATE - PLAN VIEW

NTS

I TREE GRATE FRAME

NTS

J STREET PLANTING WITH TREE GRATE

NTS

NO.	DATE	SHEET	REVISIONS

PREPARED BY
southwick
LANDSCAPE ARCHITECTS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550
FAX (702) 362-2697 WEB SITE
WWW.VTNNV.COM

REGISTERED LANDSCAPE ARCHITECT — MATT DURHAM — 895 — Expires: 6-30-21 — STATE OF NEVADA

TITLE: PINTO LANE STREETSCAPE IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

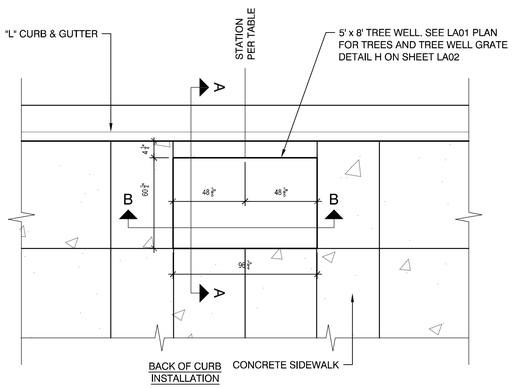
SHEET: PLANTING DETAILS

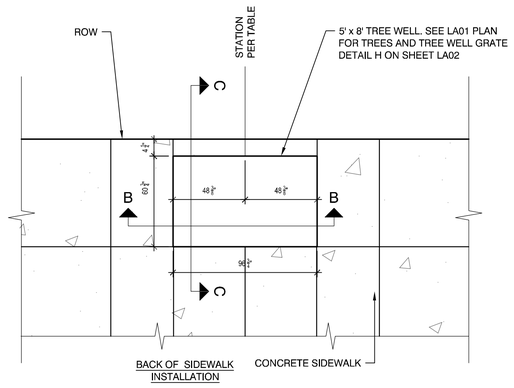
PREPARED FOR: CITY OF LAS VEGAS
BID # 21.MWA632
H # 69743
DATE: NOVEMBER 2020
SUBMITTAL STAGE: 100% FINAL
DESIGNED BY: JWV
DRAWN BY: JWV
CHECKED BY: MED

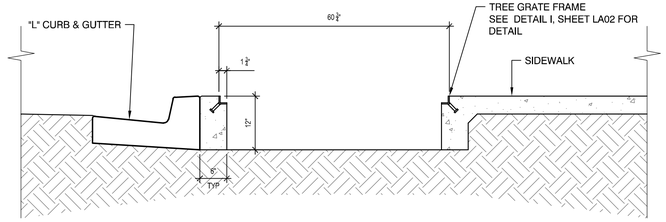
SHEET
LA-02
38 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

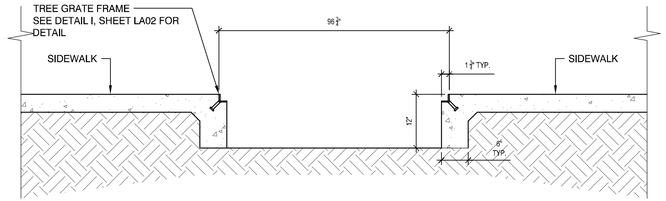
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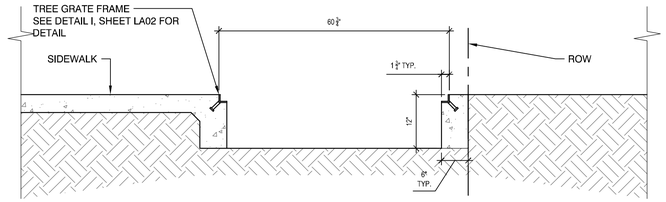




SECTION A-A



SECTION B-B



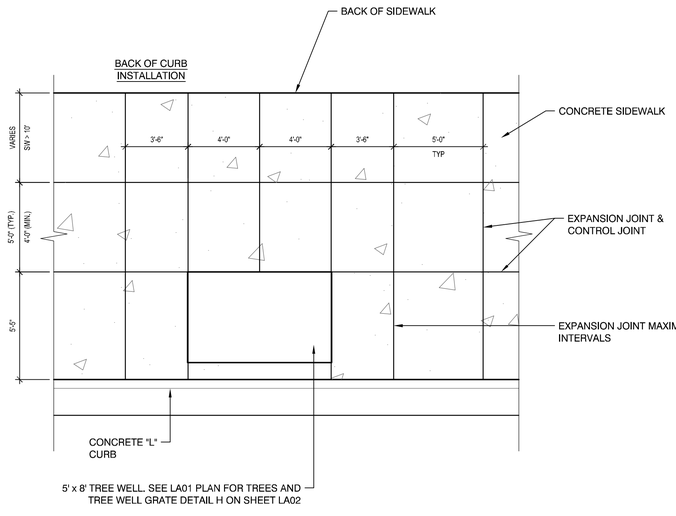
SECTION C-C

NOTES

1. VERIFY ALL DIMENSIONS WITH TREE GRATE SUPPLIER PRIOR TO CONSTRUCTION
2. REFER TO TYPICAL CONCRETE SIDEWALK LAYOUT ON DETAIL B, THIS SHEET

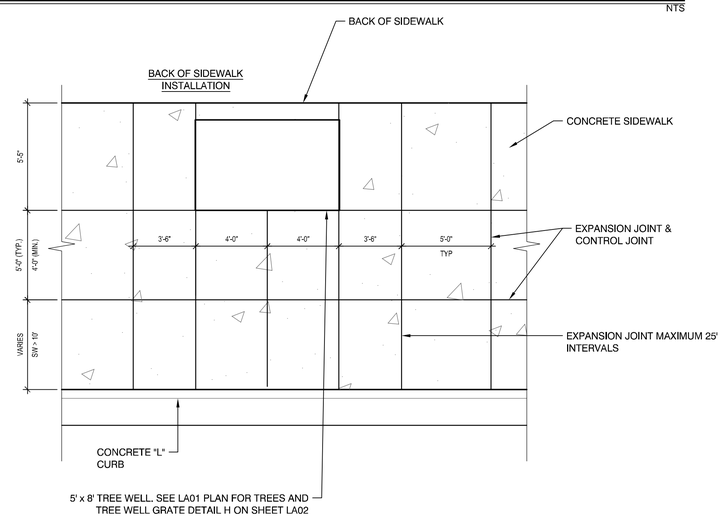
A TREE WELL BLOCKOUT

NTS



NOTES

1. SEE CIVIL SHEETS FOR CONCRETE COLLARS AROUND UTILITY BOXES AND POLES.



NOTES

1. SEE CIVIL SHEETS FOR CONCRETE COLLARS AROUND UTILITY BOXES AND POLES.

B CONCRETE SIDEWALK LAYOUT

NTS

NO.	DATE	REVISIONS

PREPARED BY
southwick
LANDSCAPE ARCHITECTS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550
FAX (702) 362-2697 WEB SITE
WWW.VTNNV.COM

REGISTERED LANDSCAPE ARCHITECT
MATT DURHAM
895
Expires: 6-30-21
STATE OF NEVADA

PINTO LANE STREETSCAPE
IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

TITLE

PLANTING DETAILS

SHEET

PREPARED FOR
CITY OF LAS VEGAS

DATE:	NOVEMBER 2020
DESIGNED BY:	JWV
DRAWN BY:	JWV
CHECKED BY:	MED
BID #	21-MWA832
H #	69743
SUBMITTAL STAGE:	100% FINAL

SHEET
LA-03
39 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

4/2/21 N:\JOBS\8-06\PW\OLANE STREETSCAPE IMPROVEMENTS\DWG\SP\HAS 1\69743-LA02-1.DWG

CONSTRUCTION KEY NOTES

IRRIGATION SCHEDULE

IRRIGATION COMPONENTS

SYMBOL	ITEM	DESCRIPTION	DETAIL(S)
A	IRRIGATION CONTROLLER	RAINBIRD ESP8FSM-LXME-LXMMPED 8 STATION CONTROLLER WITH MS-1 SURGE PROTECTOR, FLOW SENSING, 3G ANTENNA AND PEDESTAL MOUNT. CONTRACTOR TO COORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE. PROVIDE DEDICATED TELEPHONE SERVICE AND 120V POWER.	K SHEET IR02
	FLOW SENSOR	2" BRASS FLOW SENSOR, RAINBIRD FS200B. CONNECT TO CONTROLLER.	I SHEET IR02
	DRIP VALVE ASSEMBLY	DRIP VALVE ASSEMBLY. RAINBIRD 100-PEB VALVE , RAINBIRD WYE FILTER RBY-100-200MX, RAINBIRD PRESSURE REGULATOR RAINBIRD PSI-M30X-100 AND BALL VALVE.	E,F SHEET IR02
	GATE VALVE	ISOLATION GATE VALVE: NIBCO T-113 FOR MAINLINES LESS THAN 3". NIBCO P-619-RW FOR ON MAINLINES GREATER THAN 2.5". OR APPROVED EQUALS. SIZE PER MAINLINE. GATE VALVES SHALL HAVE CROSS OR BUTTERFLY OPERATING HANDLE.	D SHEET IR02
	QUICK COUPLER	RAINBIRD 44LRC WITH LOCKING RUBBER COVER WITH SH-1 HOSE SWIVEL. PROVIDE THREE 44K KEYS TOTAL.	C SHEET IR02
	FLUSH VALVE	SCHEDULE 80 PVC BALL VALVE, 3/4", WITH ABS HANDLE.	H SHEET IR02
IR	MAINLINE	SCHEDULE 40 PVC. SIZE PER PLAN.	B,G, SHEET IR02
	DRIP LINE HEADER	DRIP LINE HEADER: SCHEDULE 40 PVC, 1" DIAMETER TO INLINE DRIP TUBING. SEE TREE IRRIGATION DETAILS.	B,J SHEET IR02
SLV	SLEEVE	SCHEDULE 40 PVC. SIZE PER PLAN.	A, SHEET IR02
WC	WIRE CHASE	SCHEDULE 40 PVC. SIZE PER PLAN.	A, SHEET IR02
NOT SHOWN	CONTROL WIRES	TO VALVES FROM EXISTING SATELLITE CONTROLLERS: UF DIRECT BURIAL, SOLID COPPER, 12 GAUGE COMMON, 14 GAUGE PILOT. ROUTE WITH MAINLINE.	B SHEET IR02
ID SIZE GPM TYPE	VALVE IDENTIFICATION TAG	VALVE STATION, VALVE SIZE, MAXIMUM GPM PER VALVE AND PLANT/IRRIGATION TYPE.	-

EMITTERS

SYM.	MANUFACTURER/MODEL	PSI	GPH	DETAIL(S)
NOT SHOWN	INLINE DRIP TUBING: NETAFIM 17MM TECHLINE CV WITH 12" EMITTER SPACING. SEE TREE IRRIGATION DETAILS. (CITY OF LAS VEGAS)	30	0.9	J, SHEET IR02

IRRIGATION NOTES

1. SEE SHEET IR02 FOR IRRIGATION DETAILS. DETAILS MAY NOT REFLECT EXISTING IRRIGATION CONDITIONS WHERE NEW IRRIGATION IS TO MATCH EXISTING IRRIGATION INSTALLATION AND EXISTING COMPONENTS. WHERE NOTED, WHERE NEW IRRIGATION NEEDS TO TIE INTO AND MATCH EXISTING IRRIGATION AND WHERE EXISTING IRRIGATION NEEDS TO BE REPAIRED, CONTRACTOR SHALL MATCH EXISTING IRRIGATION INSTALLATION, EXISTING IRRIGATION COMPONENTS, AND EMITTER (GPM) QUANTITIES TO SIMILAR PLANT TYPES.

2. MAINTAIN TRENCHES FREE OF DEBRIS, MATERIAL, OR OBSTRUCTIONS THAT MAY DAMAGE PIPE. FOLLOW ALL LOCAL CODES. PROVIDE A MINIMUM OF 12" BETWEEN IRRIGATION PIPE AND ELECTRICAL LINES.

3. BACKFILLING. PROVIDE TWO INCHES OF SAND COVER AROUND PIPING. BACKFILL TRENCH AND COMPACT TO SUB-GRADE ELEVATION. COMPACT TRENCHES UNDER PAVING TO 95%. COMPACT TRENCHES IN LANDSCAPE AREAS TO 85%. PROTECT PIPING FROM DISPLACEMENT.

4. CONTRACTOR NOT TO DISTURB ANY EXISTING IRRIGATION. CONTRACTOR TO BRING ANY EXISTING IRRIGATION TO THE ATTENTION OF THE CONSTRUCTION MANAGER. CONTRACTOR TO RETURN ANY EXISTING IRRIGATION (USED TO WATER EXISTING PLANTS TO REMAIN) DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

5. IRRIGATION DRAWINGS ARE DIAGRAMMATIC. SOME VALVES AND LINES ARE SHOWN OUTSIDE OF PLANTER OR SIDEWALK AREAS FOR GRAPHIC CLARITY. THE INTENT IS FOR ALL VALVES TO BE LOCATED IN HARDSCAPE, OUTSIDE OF PAVER AREAS WHEN POSSIBLE.

6. THE DRIP IRRIGATION SYSTEM IS DESIGNED TO ACCOMMODATE A MAXIMUM OF 8 GPM PER DRIP VALVE ASSEMBLY.

7. PROVIDE SLEEVES FOR ALL IRRIGATION LINES AND WIRES BENEATH HARDSCAPE. COORDINATE LOCATIONS OF SLEEVES UNDER PAVING TO ACCOMMODATE SYSTEM.

8. VALVE BOXES FOR DRIP VALVE ASSEMBLIES SHALL BE OLDCASTLE B30BOX, 13"X24" PRECAST UTILITY BOXES. VALVE BOXES FOR QUICK COUPLING ASSEMBLIES AND OTHER APPLICATIONS SHALL BE OLDCASTLE B09BOX, 9"X12" PRECAST UTILITY BOXES.

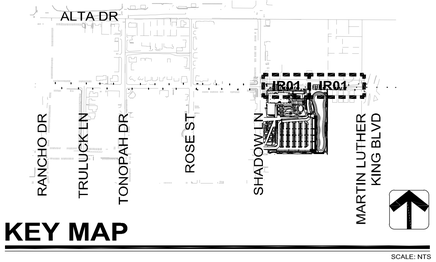
9. WIRING: UL 493, SOLID COPPER CONDUCTOR, INSULATED CABLE, SUITABLE FOR DIRECT BURIAL.
   a. FEEDER CIRCUIT CABLES: TYPE UF, NO. 12 AWG MINIMUM.
   b. LOW VOLTAGE AND BRANCH CIRCUITS: TYPE UF, NO. 12 AWG MINIMUM, COMMON WIRE, WHITE COLOR AND NO. 14 AWG MINIMUM PILOT WIRE, COLOR OTHER THAN WHITE.
   c. SPLICING MATERIALS: WATER TIGHT FITTINGS AS RECOMMENDED BY WIRE MANUFACTURER.
   d. EXTRA WIRE: PULL ONE EXTRA WIRE FROM EACH CONTROLLER INTO ALL SEPARATE VALVE GROUPINGS CONTROLLED BY THAT CONTROLLER TO ACCOMMODATE POTENTIAL CHANGES OR IF THE WIRE FAILS. EXTRA WIRE TO BE A DIFFERENT COLOR THAN ALL THE OTHER WIRES.
   e. STUB UNUSED WIRE WITH WATER TIGHT FITTINGS IN 10" CONCRETE LOCKING VALVE BOX PER PLANS FOR POTENTIAL FUTURE IRRIGATION. RUN WIRE FROM ALL STATIONS IN THE CONTROLLER TO EITHER A VALVE OR THE STUB LOCATION. RUN COMMON WIRE TO ALL STUB LOCATIONS.

10. CONTRACTOR TO COORDINATE IRRIGATION INSTALLATION WITH STREET LIGHT LOCATIONS AND OTHER UTILITIES.

11. CONTRACTOR TO COORDINATE WORK ON CLARK COUNTY PROPERTY WITH CLARK COUNTY REPRESENTATIVE.

12. REMOVE EXISTING IRRIGATION (LATERAL LINE AND EMITTERS/BUBBLERS) TO EXISTING PALM TREES. REPLACE RELATED PALM TREE VALVE WITH NEW DRIP VALVE ASSEMBLY PER PLANS. REVIEW EXISTING CONDITIONS AND EXISTING IRRIGATION ON CLARK COUNTY PROPERTY PRIOR TO DEMOLISHING OR INSTALLING IRRIGATION.

13. BRING ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE'S ATTENTION IMMEDIATELY.



KEY MAP

SCALE: NTS

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6075
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

REVISIONS | NO. | DATE | SHEET

PREPARED BY
southwick
LANDSCAPE ARCHITECTS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550
FAX (702) 362-2697 WEB SITE
WWW.VTNNV.COM

REGISTERED LANDSCAPE ARCHITECT
MATT DURHAM
895
Expires: 6-30-21
STATE OF NEVADA

PREPARED FOR
CITY OF LAS VEGAS

BID # 21.MWA832
H # 69743

DATE: NOVEMBER 2020
DESIGNED BY: JWV
DRAWN BY: JWV
CHECKED BY: MED

SUBMITTAL STAGE: 100% FINAL

TITLE
PINTO LANE STREETSCAPE
IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

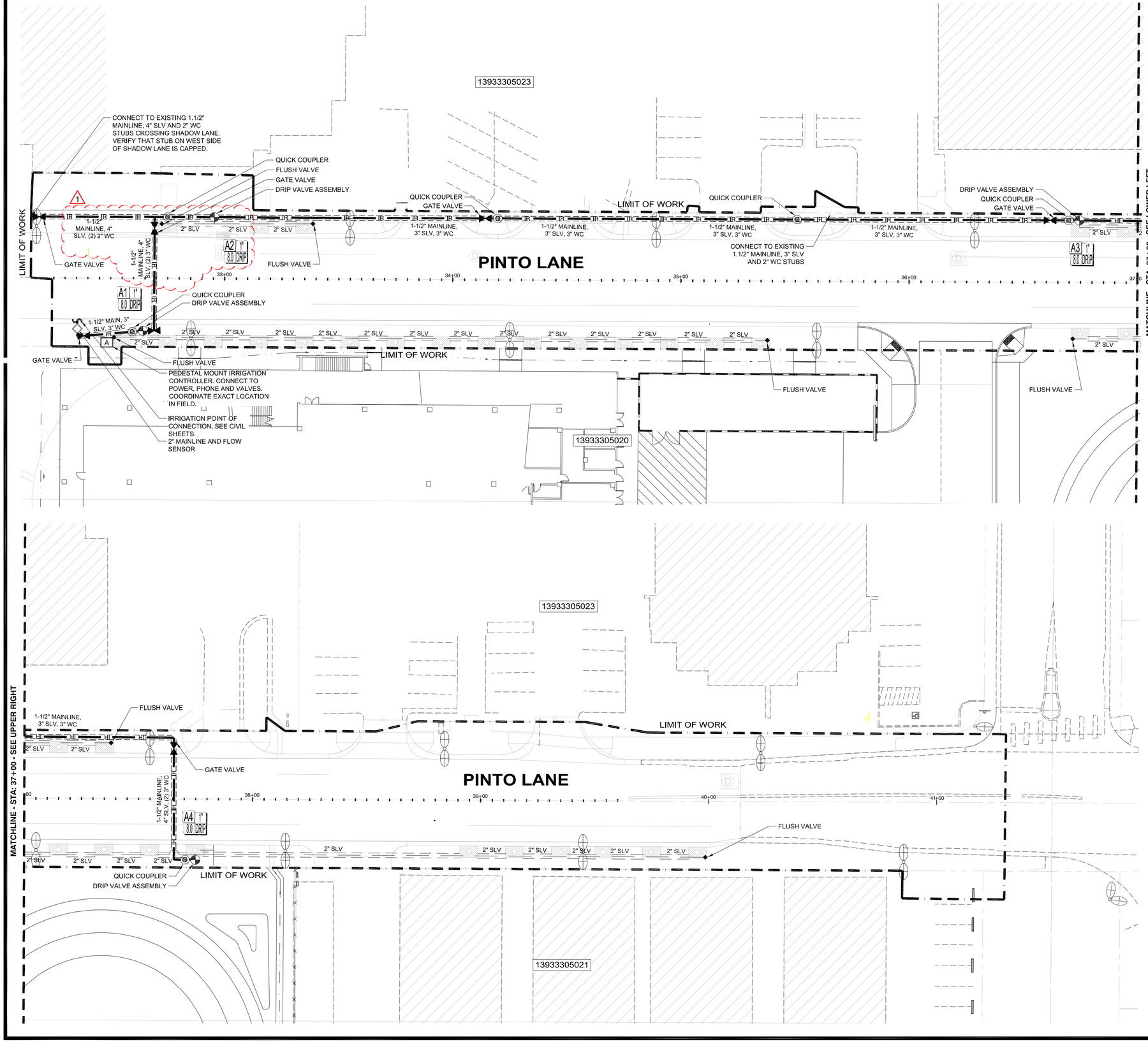
SHEET
IRRIGATION LEGEND & NOTES

SHEET
IR-00
40 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

4/2/21 N:\2018\18-080 PM\CLV\LANE STREETSCAPE IMPROVEMENTS\DWG\SP\PHASE 1\18P044-IR00-1.DWG



NORTH

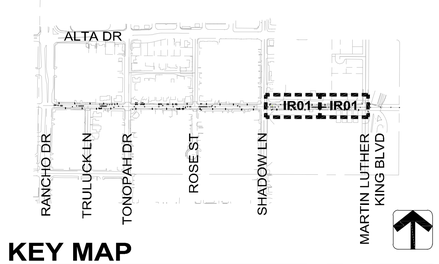
GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1" = 20'
(VERIFY SCALE - PLANS MAY HAVE BEEN REDUCED)

CALL BEFORE CONSTRUCTION

BEFORE YOU DIG	USA NORTH	811 OR 800-227-2600
BEFORE YOU UNDERGROUND	F.A.S.T.	702-432-5300
	CLARK COUNTY TRAFFIC OPERATIONS	702-455-7511
	CITY OF LAS VEGAS T.E.F.O.	702-229-6075
BEFORE YOU OVERHEAD	NV ENERGY	702-227-2929

CONSTRUCTION KEY NOTES

1. SEE SHEET IR-00 FOR IRRIGATION LEGEND.



KEY MAP

SCALE: NTS

NO.	DATE	SHEET	REVISIONS
1	6/8/21		REVISED PER ADDENDUM 1

PREPARED BY
southwick
LANDSCAPE ARCHITECTS
2727 SOUTH RAINBOW BOULEVARD
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PH. (702) 873-7550
FAX (702) 362-2697 WEB SITE
WWW.VTNNV.COM

REGISTERED LANDSCAPE ARCHITECT
MATT DURHAM
895
Expires: 6-30-21
STATE OF NEVADA

TITLE
PINTO LANESTREETSCAPE IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
IRRIGATION PLAN

PREPARED FOR
CITY OF LAS VEGAS

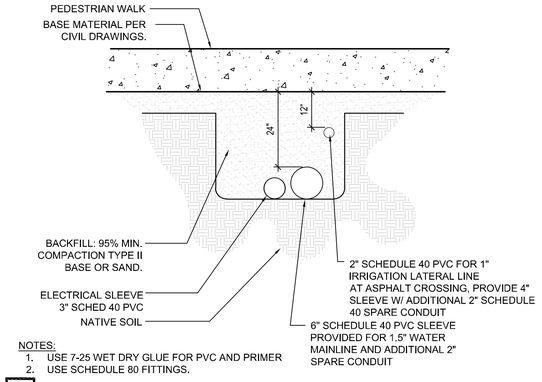
BID # 21.MWA193.01	DATE: NOVEMBER 2020		
H # 69743	DESIGNED BY: JWV	DRAWN BY: JWV	CHECKED BY: MED
SUBMITTAL STAGE: 100% FINAL			

SHEET
IR-01
41 OF 42

DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

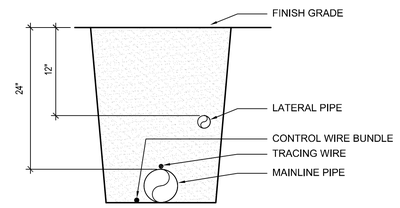
\\WIN\DOCS-LAS\PROJECTS\2018\18-080 PINTO LANE STREETSCAPE IMPROVEMENTS\DWG\PHASE 1\IR01\42-IR01.DWG
6/6/21



NOTES:
1. USE 7-25 WET DRY GLUE FOR PVC AND PRIMER
2. USE SCHEDULE 80 FITTINGS.

A SLEEVE TRENCHING

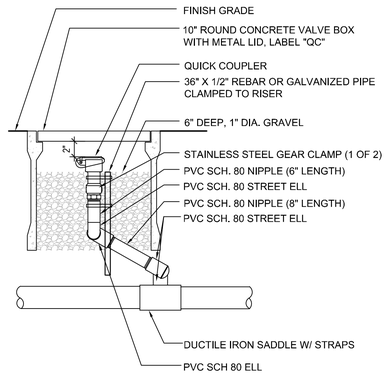
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NOTE:
1. REFER TO DETAIL 'A' ON THIS SHEET FOR COVERAGE DEPTH TO BURIED PIPE AND WIRE UNDER HARDSCAPE.

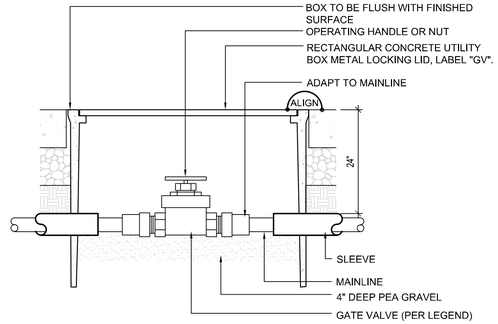
B TRENCHING

NTS



C QUICK COUPLER

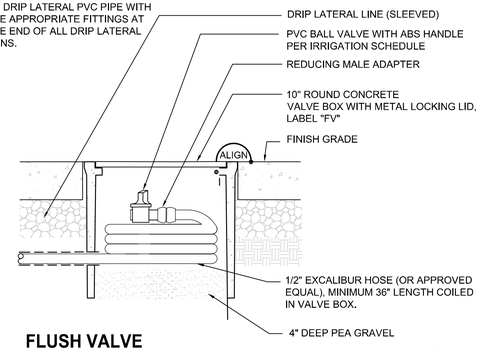
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D GATE VALVE IN LARGE VALVE BOX

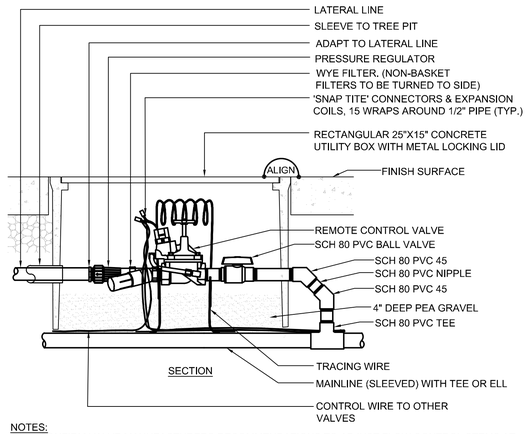
NTS

NOTE:
CONNECT 1/2" IPS EXCALIBUR HOSE TO DRIP LATERAL PVC PIPE WITH THE APPROPRIATE FITTINGS AT THE END OF ALL DRIP LATERAL RUNS.



H FLUSH VALVE

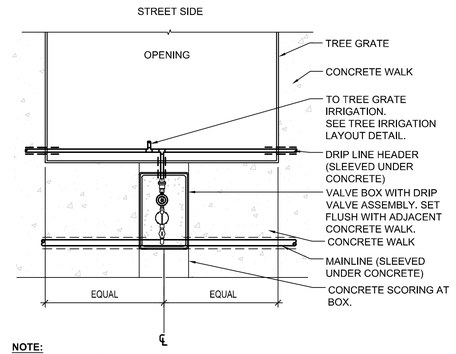
N



NOTES:
1. CONFIRM VALVE MANUFACTURERS RECOMMENDATIONS TO ADJUST FLOW CONTROL STEMS AT FLOWS BELOW 10 GPM AT EACH VALVE WHERE APPLICABLE.

E DRIP VALVE ASSEMBLY (CITY OF LAS VEGAS)

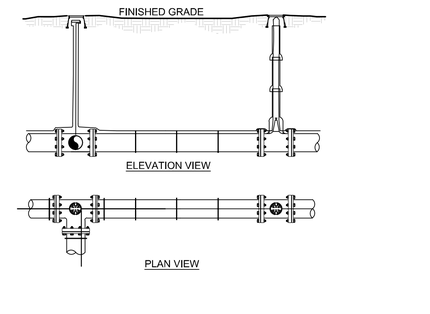
NTS



NOTE:
ALL DRIP VALVE ASSEMBLIES, QUICK COUPLER VALVE AND GATE VALVE BOXES ARE TO BE LOCATED IN CONCRETE.

F DRIP VALVE ASSEMBLY AT TREE WELL

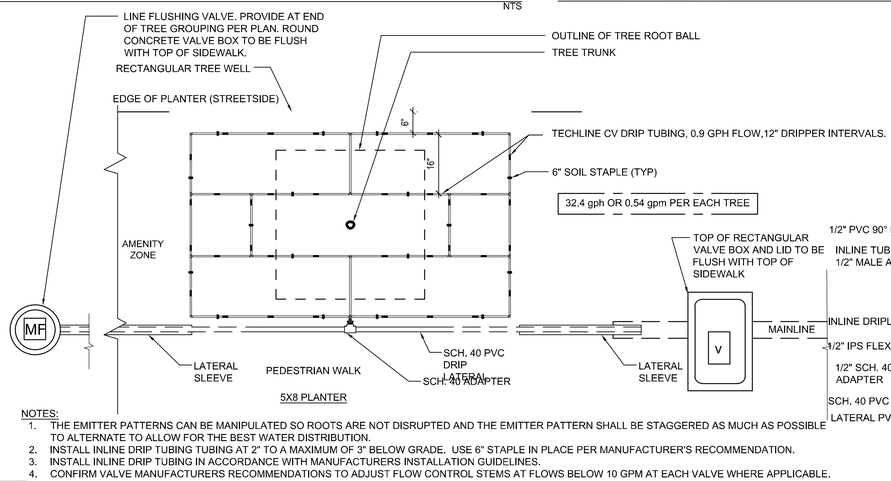
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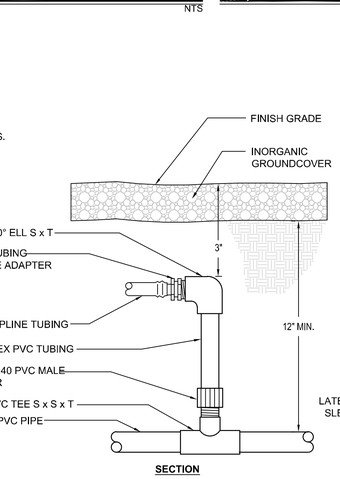
NOTES:
1. COPPER TRACING WIRE WILL START AT THE POINT-OF-CONNECTION AND WILL BE ROUTED WITH ALL NEW MAINLINE PIPE.
2. SPLICE TRACING WIRE IN IRRIGATION MAINLINE COMPONENT VALVE BOXES WHEN POSSIBLE. OTHERWISE, PLACE SPLICE IN SEPARATE 10" ROUND CONCRETE VALVE BOX WITH METAL LID.

G TRACING WIRE INSTALLATION

NTS



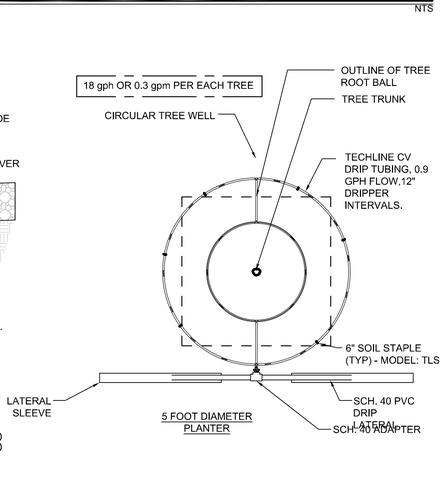
NOTES:
1. THE EMITTER PATTERNS CAN BE MANIPULATED SO ROOTS ARE NOT DISRUPTED AND THE EMITTER PATTERN SHALL BE STAGGERED AS MUCH AS POSSIBLE TO ALTERNATE TO ALLOW FOR THE BEST WATER DISTRIBUTION.
2. INSTALL INLINE DRIP TUBING TUBING AT 2" TO A MAXIMUM OF 3" BELOW GRADE. USE 6" STAPLE IN PLACE PER MANUFACTURER'S RECOMMENDATION.
3. INSTALL INLINE DRIP TUBING IN ACCORDANCE WITH MANUFACTURERS INSTALLATION GUIDELINES.
4. CONFIRM VALVE MANUFACTURERS RECOMMENDATIONS TO ADJUST FLOW CONTROL STEMS AT FLOWS BELOW 10 GPM AT EACH VALVE WHERE APPLICABLE.

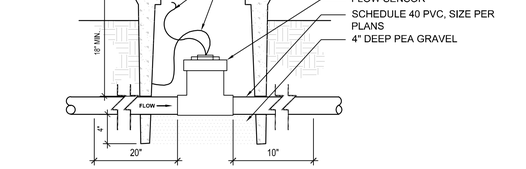


SECTION

J TREE IRRIGATION LAYOUT - INLINE DRIP

NTS

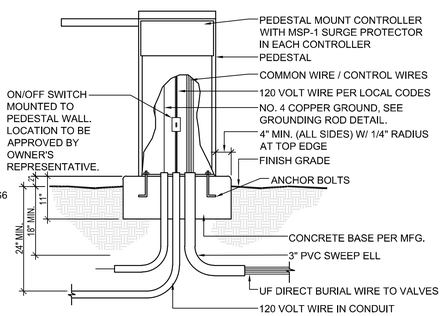




I FLOW SENSOR

N

NOTES:
1. INSTALL CONTROLLER PER MANUFACTURER'S. PRINTED INSTRUCTIONS AND PER LOCAL CODES.
2. EXACT LOCATION TO BE APPROVED IN THE FIELD BY OWNER'S REPRESENTATIVE.
3. CONNECT TO POWER, TELEPHONE AND IRRIGATION VALVES.



K CONTROLLER

NTS

NO.	DATE	REVISIONS

PREPARED BY
southwick
LANDSCAPE ARCHITECTS
2727 SOUTH RAINBOW BOULEVARD
LAS VEGAS, NEVADA 89146-5148
PH. (702) 873-7550
FAX (702) 362-2697 WEB SITE
WWW.VTNNV.COM

REGISTERED LANDSCAPE ARCHITECT
MATT DURHAM
895
Expires: 6-30-21
STATE OF NEVADA

TITLE
PINTO LANE STREETSCAPE IMPROVEMENTS - PHASE 1
SHADOW LANE TO MARTIN LUTHER KING BOULEVARD

SHEET
IRRIGATION DETAILS

PREPARED FOR
CITY OF LAS VEGAS

DATE:	NOVEMBER 2020
DESIGNED BY:	JWV
DRAWN BY:	JWV
CHECKED BY:	MED
BID #	21.MWA832
H #	697-43
SUBMITTAL STAGE:	100% FINAL

SHEET
IR-02
42 OF 42
DRAWING NO.
107V8023-1

ISSUED FOR CONSTRUCTION

4/5/21 N:\2018\18-086 PINTO LANE STREETSCAPE IMPROVEMENTS\DWG\SHEETS\107V8023-1.DWG