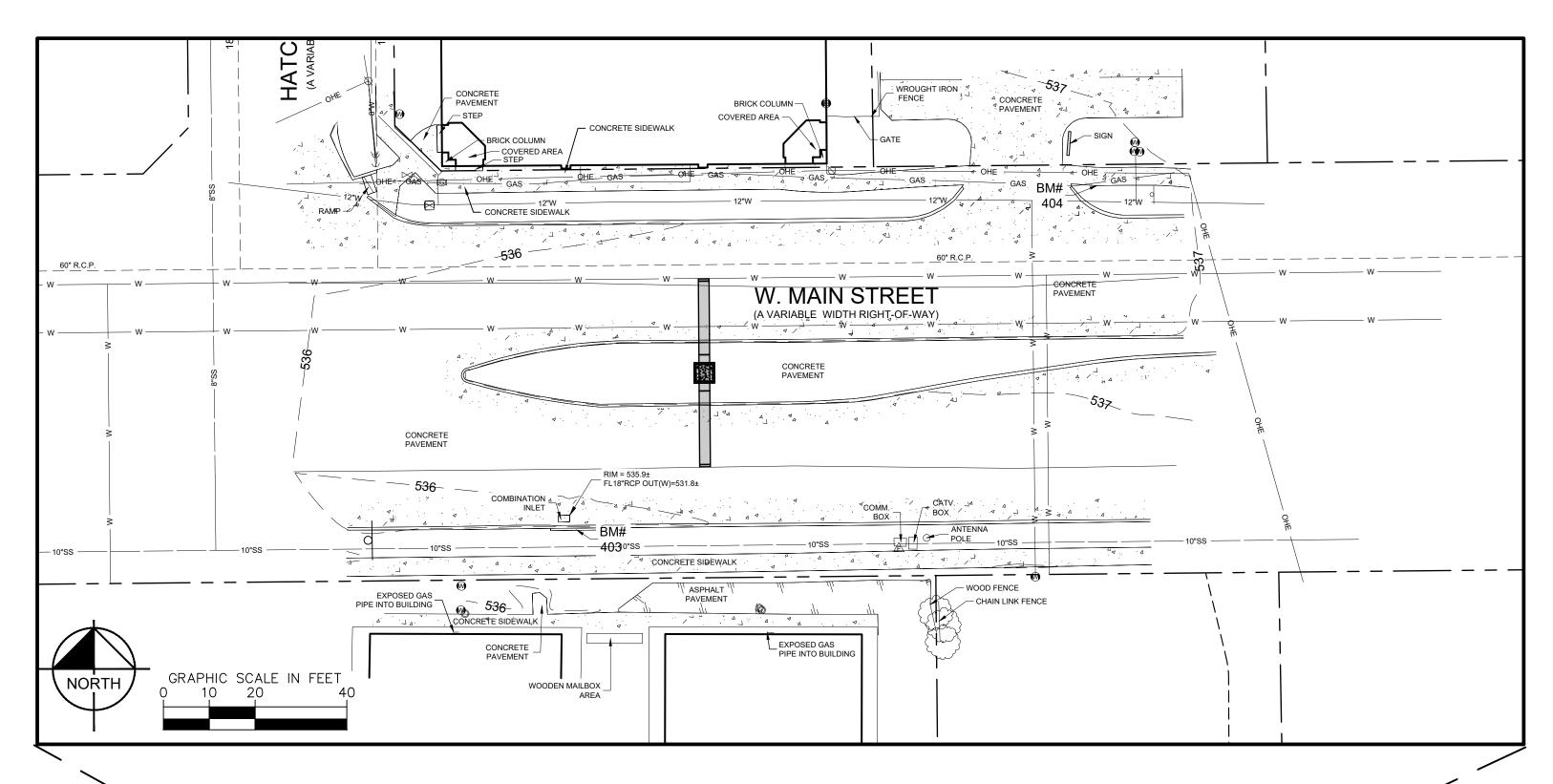
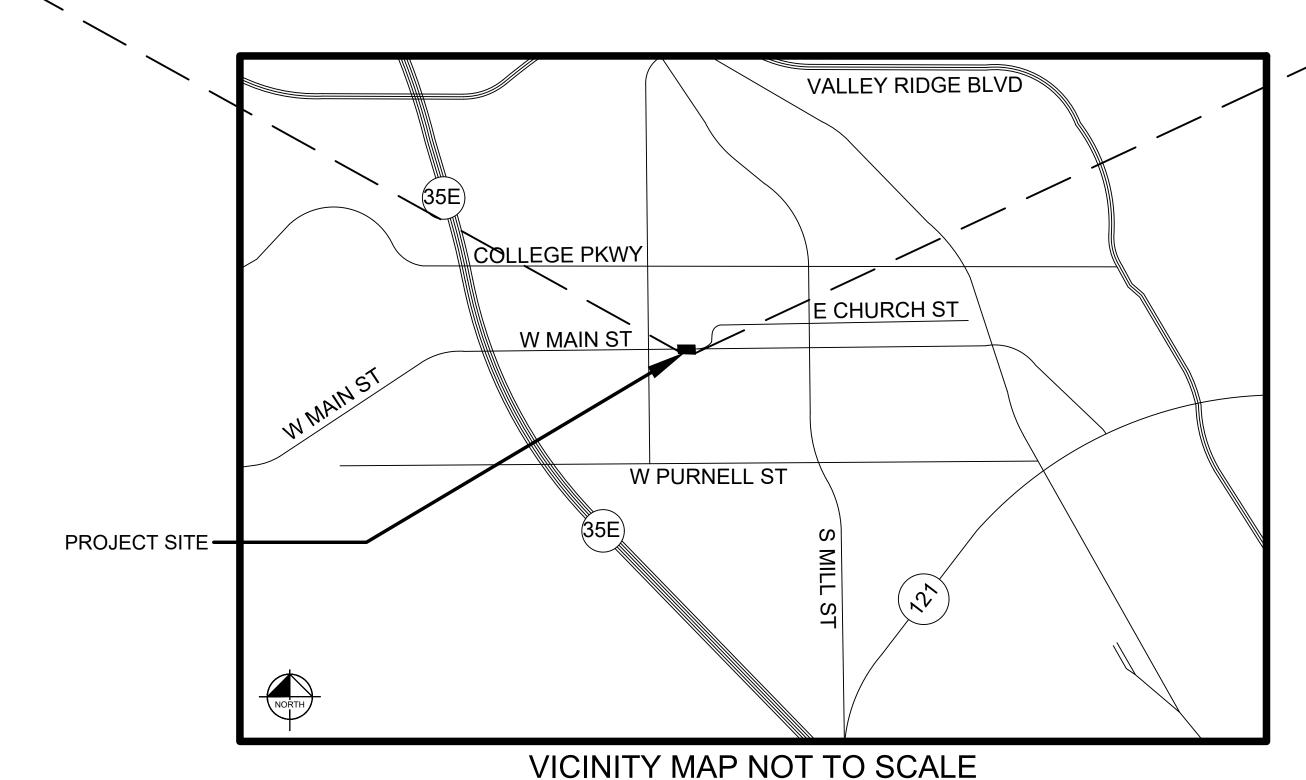
# Exhibit B

# CITY OF LEWISVILLE, TEXAS

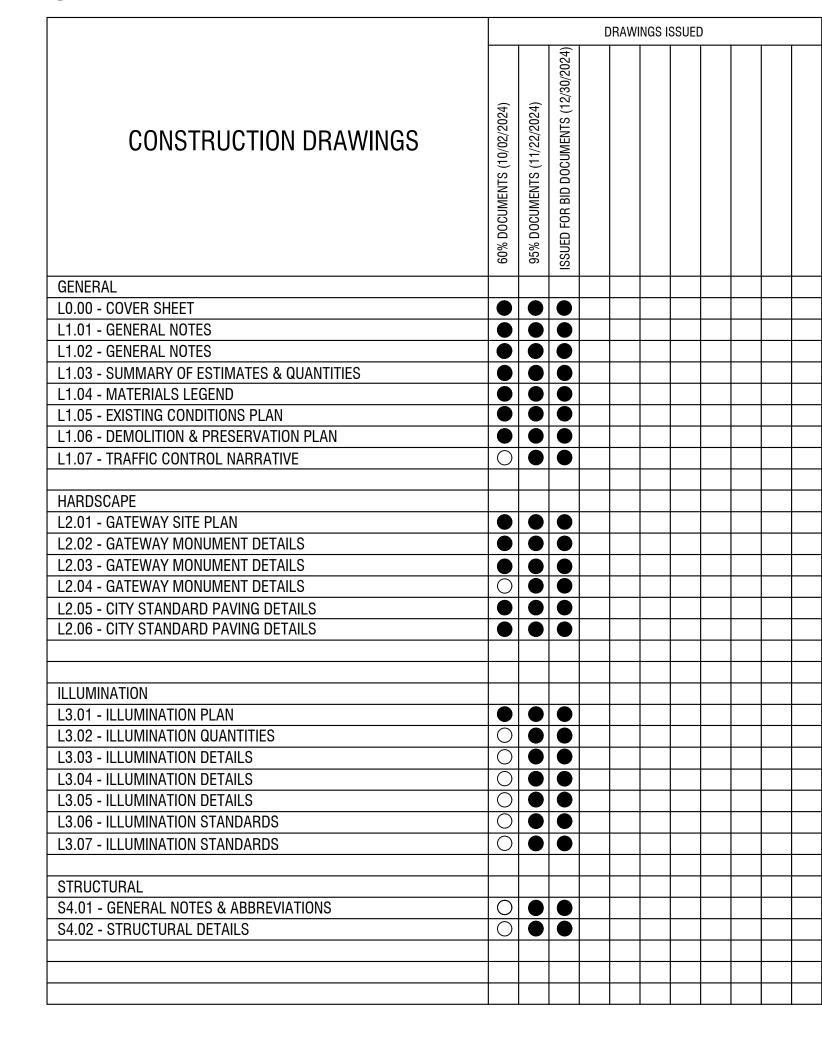
# OLD TOWN LEWISVILLE (OTL) GATEWAY MONUMENT ISSUED FOR BID DOCUMENTS

12/30/2024





# SHEET INDEX





CITY OF LEWISVILLE, TX 151 WEST CHURCH STREET LEWISVILLE, TX 75057

# Kimley » Horn

#### **CLIENT**

CITY OF LEWISVILLE
PARKS & RECREATION
191 Civic Circle
LEWISVILLE, TX 75067
CONTACT: RANDY SIMON
PH: (972) 219-3749



#### LANDSCAPE ARCHITECT

KIMLEY-HORN 2600 NORTH CENTRAL EXPRESSWAY, SUITE 400, RICHARDSON, TX 75080 CONTACT: MARK BOWERS, R.LA. PH: (972) 776-1783 CONTACT: IGNACIO MEJIA, PM (972) 770-1362

#### **ILLUMINATION**

KIMLEY-HORN 2600 NORTH CENTRAL EXPRESSWAY SUITE 400, RICHARDSON, TX 75080 CONTACT: CARLYE LIDE, P.E. PH: (972) 770-1395

#### STRUCTURAL ENGINEER

KIMLEY-HORN
225 E JOHN W CARPENTER FWY
SUITE 1100, IRVING, TX 75062
CONTACT: CLAY SUTHERLAND, P.E.
PH: (214) 420-5631
CONTACT: MARCO PEREZ, P.E.
PH: (469) 965-3416

#### GEOTECHNICAL ENGINEERING

ALLIANCE GEOTECHNICAL GROUP 3228 HALIFAX STREET DALLAS, TX, 75247 CONTACT: RUPESH THAPA PH: (469) 970-0204

#### CITY OF LEWISVILLE GENERAL NOTES:

- 1. THE CITY OF LEWISVILLE'S INSPECTOR OVERTIME POLICY ALLOWS THE CONTRACTOR TO WORK FROM 7:00 A.M. TO 7:00 P.M., MONDAY THROUGH SATURDAY. ANY REQUEST TO WORK ON A SATURDAY MUST BE MADE PRIOR TO 12:00 P.M. ON THURSDAY AFTERNOON AND WILL REQUIRE A MINIMUM FOUR (4) HOUR CHARGE. THE CONTRACTOR SHALL PAY OVERTIME CHARGES OF \$45.00 PER HOUR TO THE CITY OF LEWISVILLE FOR WORK OUTSIDE THE NORMAL WORK WEEK (8:00 A.M. TO 5:00 P.M. MONDAY THROUGH FRIDAY). NO WORK IS ALLOWED ON SUNDAYS OR CITY HOLIDAYS WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER OR DESIGNEE.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A COPY OF THE BID PROPOSAL FOR ALL PUBLIC IMPROVEMENTS TO THE CITY OF LEWISVILLE AT THE PRE-CONSTRUCTION MEETING. THIS PROPOSAL SHALL INCLUDE UNIT COSTS, QUANTITIES, AND AMOUNTS.
- 3. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING A 3.5% INSPECTION FEE TO THE CITY OF LEWISVILLE AT THE PRE-CONSTRUCTION MEETING FOR ALL PUBLIC IMPROVEMENTS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TWO (2) YEAR, 100% MAINTENANCE BOND TO THE CITY OF LEWISVILLE FOR ALL PUBLIC IMPROVEMENTS (WATER, SANITARY SEWER, STORM DRAINAGE, PAVEMENT, SIDEWALK, SCREENING WALLS, TRAFFIC SIGNALS, PAVEMENT MARKINGS, AND EXCAVATION/FILL) WITHIN RIGHT-OF-WAYS OR EASEMENTS.
- 5. NO WATER JETTING IS ALLOWED FOR WATER, SANITARY SEWER, AND STORM SEWER DRAINAGE CONSTRUCTION.
- 6. ALL TRENCHES THAT ARE EXCAVATED TO A DEPTH IN EXCESS OF FIVE (5) FEET SHALL BE EXCAVATED AND MAINTAINED IN A MANNER THAT MEETS ALL OCCUPATION SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. PRIOR TO THE EXCAVATION AND CONSTRUCTION OF THE TRENCH(ES) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TWO (2) COPIES OF THE TRENCH SAFETY PLANS PREPARED BY A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH OSHA STANDARDS.
- 7. ALL EMBEDMENT AND BACKFILL SHALL BE WETTED TO APPROXIMATE OPTIMUM MOISTURE AND COMPACTED IN TWELVE (12) INCH LIFTS TO 95% STANDARD PROCTOR DENSITY. DENSITY TESTS SHALL BE OBTAINED FOR EACH LIFT AND FOR EACH 150 LINEAL FEET OF TRENCH OR INCREMENT THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A COPY OF ALL GEOTECHNICAL LABORATORY REPORTS/TEST RESULTS TO THE CITY OF LEWISVILLE.
- 8. THERE SHALL BE NO FILLING IN THE FLOODPLAIN OR DUMPING WITHIN THE CITY OF LEWISVILLE WITHOUT AN APPROVED GRADING PLAN AND/OR FILL PERMIT.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING ALL FIELD CHANGES TO THE PLANS. THE PROJECT ENGINEER SHALL INCORPORATE THESE CHANGES IN "RECORD DRAWINGS".
- 10. . THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL DEVICES WHEN FIELD CONDITIONS WARRANT OR AS DIRECTED BY THE CITY OF LEWISVILLE OR THE ENGINEER.
- 11. THE PERMITTED OPERATOR SHALL SUBMIT COPIES OF THE NOTICE OF INTENT (N.O.I.) AND THE NOTICE OF TERMINATION (N.O.T.) TO THE CITY OF LEWISVILLE ENGINEERING DIVISION AS PART OF THE SUBMITTAL TO THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).
- 12. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY CONCRETE PAVEMENT (DRIVE APPROACHES/STREET PANELS) WITHIN FIVE (5) DAYS OF SAW CUTTING THE PAVEMENT. CONCRETE PAVEMENT SUBJECT TO VEHICULAR TRAFFIC SHALL HAVE A COMPRESSIVE STRENGTH OF 4.200 PSI AT 3 DAYS.
- 13. THE USE OF FLY ASH IS NOT ALLOWED IN THE CONCRETE MIX DESIGN.
- 14. ALL SUBGRADES FOR PUBLIC STREET IMPROVEMENTS SHALL BE TESTED FOR SULFATES PRIOR TO SUBGRADE TREATMENT. FILL MATERIALS CONTAINING SULFATES WILL NOT BE ALLOWED FOR USE WITHIN PUBLIC EASEMENTS OR RIGHT-OF-WAYS.
- 15. THE DEVELOPER IS RESPONSIBLE FOR PROVIDING A PRELIMINARY GEOTECHNICAL REPORT AT THE TIME OF THE SUBMITTAL OF THE CONSTRUCTION DRAWINGS. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR PROVIDING A GEOTECHNICAL REPORT UPON COMPLETION OF THE SUBGRADE TREATMENT FOR COMPARISON.
- 16. THE MAXIMUM P.I. ALLOWED FOR A TREATED SUBGRADE IS 25.
- 17. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR ALL THIRD PARTY COSTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT (I.E., INSPECTIONS, FLAGGERS, TRAFFIC CONTROL PERFORMED BY POLICE OFFICERS AND ETC.)

#### GENERAL NOTES:

- 1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, CITY (OR TOWN) STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.
- 2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE CITY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.
- 3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS.
- 4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
- 5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS.
- 6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FOUND TO THE OWNER. LANDSCAPE ARCHITECT, AND ENGINEER IMMEDIATELY.
- 7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER, LANDSCAPE ARCHITECT, AND ENGINEER FOR REVIEW.
- 8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING.
- 9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL.
- 10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT, LANDSCAPE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, LANDSCAPE ARCHITECT, ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE CITY, ARCHITECT, ENGINEER, LANDSCAPE ARCHITECT, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
- 11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER, LANDSCAPE ARCHITECT, AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
- 12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
- 13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION.
- 14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.
- 15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS.
- 17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.

- 18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT.
- 19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER, LANDSCAPE ARCHITECT, OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- 20. BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM.
- 21. CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK SETBACKS FROM POWER LINES.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION.
- 23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND CITY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
- 24. ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE LANDSCAPE ARCHITECT AND/OR ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE.
- 25. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES.
- 26. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
- 27. CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
- 28. ALL SYMBOLS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC....) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR..
- 29. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA.
- 30. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND COMPLY WITH CITY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING.
- 31. ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, LANDSCAPE ARCHITECT, AND ENGINEER DIRECTLY FROM THE TESTING AGENCY.
- 32. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.
- 33. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR.
- 34. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
- 35. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC.... TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.
- 36. ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT.
- 37. THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC... THAT ARE TO BE RELOCATED DURING CONSTRUCTION.
- 38. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES

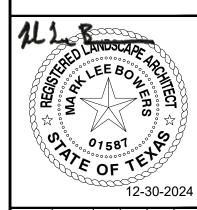
- OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.
- 39. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
- 40. SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 41. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.
- 42. SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS.
- 43. CONTRACTOR OFFICE, STAGING AREA, AND SITE ENTRANCE SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS.
- 44. LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.
- 45. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 46. TOP OF INLET ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING.
- 47. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING.
- 48. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE CITY OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS.
- 49. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE CITY OF A TRAFFIC CONTROL PLAN, IF REQUIRED, PRIOR TO THE START OF CONSTRUCTION, AND THEN THE IMPLEMENTATION OF THE PLAN.
- 50. CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM THE PLANS.
- 51. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE OWNER, LANDSCAPE ARCHITECT, ENGINEER, AND CITY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.
- 52. WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
- 53. ALL PROPOSED AND FINISHED GRADES ARE BASED UPON INFORMATION PROVIDED BY THE OWNER'S SURVEY AND/OR CIVIL ENGINEER. ANY DISCREPANCIES IN ACTUAL FIELD MEASUREMENTS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
- 54. PRIOR TO COMMENCEMENT OF HARDSCAPE CONSTRUCTION ALL PIERS, FOOTINGS, AND WALLS ARE TO BE SURVEYED, LAID OUT, AND STAKED IN THE FIELD FOR REVIEW BY LANDSCAPE ARECHITECT. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DEMOLITION, ADJUSTMENTS, OR RECONSTRUCTION RESULTING FROM UNAUTHORIZED CONSTRUCTION ACTIVITIES.
- 55. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES SHOWN IN THE DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES ARE PROVIDED BY LANDSCAPE ARCHITECT ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTORS ARE TO BID THEIR OWN VERIFIED QUANTITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
- 56. EASEMENTS, SETBACKS, BUILDINGS, CURB AND GUTTER, AND UNDERGROUND UTILITIES HAVE BEEN SUPPLIED TO LANDSCAPE ARCHITECT BY THE PROJECT CIVIL ENGINEER. REFER TO CIVIL ENGINEER'S DRAWINGS FOR ADDITIONAL INFORMATION.





No. REVISIONS DATE

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12/30/2024
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SENERAL NOTES

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- 1. THE CONTRACTOR AND LANDSCAPE GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- 2. CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE CITY.
- 3. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE PAVING GRADE FOR TOP OF CURB ELEVATION.
- 4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO TOP OF FINISHED GRADE.
- 5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF DISCREPANCY.
- 6. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN.
- 7. CONTOURS AND SPOT GRADES SHOWN ARE ELEVATIONS OF TOP OF THE FINISHED SURFACE. WHEN PERFORMING THE GRADING OPERATIONS, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN ALLOWANCE FOR THE THICKNESS OF PAVEMENT, SIDEWALK, TOPSOIL, MULCH, STONE, LANDSCAPING, RIP-RAP AND ALL OTHER SURFACE MATERIALS THAT WILL CONTRIBUTE TO THE TOP OF FINISHED GRADE. FOR EXAMPLE, THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF THE PAVEMENT SECTION.
- 8. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATION TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY SIGNIFICANT VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- 9. ALL GRADING AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA.
- 10. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE.
- 11. BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECT'S PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
- 12. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS DISPOSED, ALONG WITH THE RECEIVING LANDOWNER'S APPROVAL TO DO SO.
- 13. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO PLANTING SOIL PLANS AND SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- 14. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.
- 15. NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY REASON OR ANY LENGTH OF TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS IS REQUIRED.
- 16. REFER TO SITE PLAN FOR HORIZONTAL DIMENSIONS.
- 17. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND CONDITION FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- 18. CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR SOILS TESTING.
- 19. ALL COPIES OF SOILS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND LANDSCAPE ARCHITECT DIRECTLY FROM THE TESTING AGENCY.
- THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.

20. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE SOILS, THAT

- 21. FOR WORK LOCATED WITHIN 5-FEET FROM THE BUILDING, CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FILL, CONDITIONING, AND PREPARATION IN THE BUILDING PAD.
- 22. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
- 23. CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER OF THE PROPOSED BUILDING(S) DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT TO REVIEW THE LOCATION.
- 24. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY, AT NO ADDITIONAL COST TO THE OWNER.
- 25. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS NEEDED FOR GRADING OPERATIONS AND TO ACCOMMODATE PROPOSED GRADE, INCLUDING THE UNKNOWN UTILITIES NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL REFER TO THE GENERAL NOTES SECTION OF THESE PLANS FOR ADDITIONAL INFORMATION.
- 26. CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS, INDIVIDUAL PROTECTED TREE CRITICAL ROOT ZONES, AND PROPOSED SITE GRADING, AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH THE TREE PROTECTION PLAN PRIOR TO COMMENCING THE WORK.
- 27. AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORMWATER RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IF ANY AREAS OF POOR DRAINAGE ARE DISCOVERED.
- 28. CONTRACTOR FIELD ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED, IF THE APPROVAL OF THE LANDSCAPE ARCHITECT IS OBTAINED.

#### SLOPE CRITERIA

- 1. ALL SLOPES SHALL MEET FEDERAL AND STATE ACCESSIBILITY CODES.
- 2. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES.
- 3. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA/TAS SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA AND TAS SLOPE COMPLIANCE ISSUES.
- 4. MAXIMUM DESIGN CROSS SLOPES FOR ACCESSIBLE ROUTE ARE NOT TO EXCEED 1.5% AND IN NO CASE SHALL EXCEED 2%.
- 5. MAXIMUM DESIGN PAVEMENT RUNNING SLOPES FOR ACCESSIBLE ROUTES SHALL NOT EXCEED 4.5% AND IN NO CASE SHALL EXCEED 5%.
- 6. MAXIMUM DESIGN ACCESSIBLE RAMP FOR ACCESSIBLE ROUTES SHALL NOT EXCEED 7.5% AND IN NO CASE SHALL EXCEED 1 VERTICAL TO 12 HORIZONTAL.

#### **EROSION CONTROL NOTES:**

- 1. REFERENCE TRAFFIC CONTROL NARATIVE.
- 2. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL NOTES, AND SWPPP FOR ADDITIONAL INFORMATION AND REQUIREMENTS, PROVIDED BY THE CONTRACTOR.

#### **HARDSCAPE NOTES:**

- 1. ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CITY STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION/DETAIL SHALL BE FOLLOWED.
- 2. ALL PRIVATE ON-SITE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING ALL ADDENDA.
- 3. ALL PUBLIC PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- 4. CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SUBGRADE TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL PAVING AND PAVING SUBGRADE TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SUBGRADE. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR PAVING AND PAVING SUBGRADE TESTING.
- 5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE PAVING AND PAVING SUBGRADE, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS.
- 6. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING..
- 7. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH, FLUSH, CONNECTION. IF PAVING HAS AN IRREGULAR PATTERN, ALL JOINTS EXCEEDING 1/4" IN WIDTH SHALL BE FLUSH WITH ADJACENT PAVING SURFACE.
- REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT.
- 9. REFER TO CITY STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT.
- 10. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, CITY STANDARDS, AND ASTM A-615, GRADE 60, AND SHALL BE SUPPORTED BY BAR CHAIRS. CONTRACTOR SHALL USE THE MORE STRINGENT OF THE CITY AND GEOTECHNICAL STANDARDS.
- 11. ALL JOINTS SHALL EXTEND THROUGH THE CURB.
- 12. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
- 13. ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT.
- 14. CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED.
- 15. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA/TAS SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA AND TAS SLOPE COMPLIANCE ISSUES.

#### SIGNAGE NOTES:

1. ALL PROJECT SAFETY SIGNAGE, GRAPHICS, DIRECTIONAL SIGNAGE, AND WAYFINDING IS BY OTHERS AND IS NOT A PART OF THE SCOPE OF THESE DRAWINGS AND SPECIFICATIONS.

EXISTING UNDERGROUND UTILITIES. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO ANY TRENCHING OR EXCAVATION.

Know what's below.

Call before you dig.

Ш C

SHEET NUMBER L1.02

# QUANTITIES & ESTIMATES:

# OTL GATEWAY MONUMENT

### SITE WORK

| ITEM                            | DESCRIPTION   | QUANTITY | UNIT |
|---------------------------------|---|----------|------|
|                                 | Mobilization, bonding, perimiting, insurance, erosion |          |      |
| General Conditions              | control, etc  | 1.00     | LS   |
| Barricading and Traffic Control |   | 1.00     | LS   |
| Project Sign                    |   | 1.00     | EA   |
| Remove Concrete (Sawcut)        | Approximately 14" Depth                               | 42       | LF   |
| Remove Concrete (Median)        | Approximately 14" Depth                               | 12       | SY   |
| Concrete Washout                |   | 1        | EA   |
|                                 |   |          |      |

# HARDSCAPE - PAVING

| ITEM                                | DESCRIPTION                           | QUANTITY | UNIT |
|-------------------------------------|---------------------------------------|----------|------|
| Concrete Paving (Median) - 6" Thick | Standard Gray, broom finish, and base | 10       | SY   |
|                                     |                                       |          |      |

### GATEWAY MONUMENT COLUMN AESTHETICS

| ITEM               | DESCRIPTION | QUANTITY | UNIT |
|--------------------|-------------|----------|------|
| Clay Brick Masonry |             | 236      | SF   |
| Cast Stone Masonry |             | 95       | SF   |
|                    |             |          |      |

# GATEWAY MONUMENT STRUCTURAL

| ITEM              | DESCRIPTION                               | QUANTITY | TINU |
|-------------------|---|----------|------|
| 48" DRILLED SHAFT | 48" CONCRETE DRILLED SHAFT                | 39       | LF   |
| PILE CAP          | 4.5' x 4.5' x 3.0' CONCRETE PILE CAP      | 2.50     | CY   |
|                   | METAL FABRICATION, FINISH, TEXAS STAR (2) |          |      |
| GATEWAY MONUMENT  | AND TEXAS (2) PLAQUES, AND INSTALL        | 1        | LS   |
|                   |   |          |      |

# GATEWAY MONUMENT ILLUMINATION & ELECTRICAL

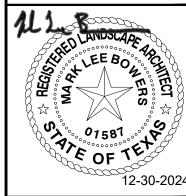
| ITEM  | DESCRIPTION | QUANTITY | UNIT |
|---|-------------|----------|------|
| CONDT (PVC) (SCH 40) (1")                       |             | 155      | LF   |
| CONDT (PVC) (SCH 40) (2")                       |             | 85       | LF   |
| CONDT (PVC) (SCH 40) (2") (BORE)                |             | 40       | LF   |
| ELEC CONDR (NO.10) INSULATED                    |             | 160      | LF   |
| ELEC CONDR (NO.6) BARE                          |             | 135      | LF   |
| ELEC CONDR (NO.6) INSULATED                     |             | 830      | LF   |
| GROUND BOX TY A (122311)W/APRON                 |             | 2        | EA   |
| GROUND BOX TY D (162922)                        |             | 1        | EA   |
| EL SR TY D 120/240 100(NS) AL(E) PS (U)         |             | 1        | EA   |
| CORE LNT-65 & LFO-60 RGBW LED LIGHTS AND SYSTEM |             | 1        | LS   |
| NEON LIGHTING                                   |             | 2        | EA   |
|   |             |          |      |

NOTES

ALL QUANTITIES ARE APPROXIMATE, CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND PROVIDING SUFFICIENT MATERIALS TO ACHIEVE THE DESIGN LAYOUT TO ALL ELEMENTS AS SHOWN.

No. REVISIONS

© 2024 KIMLEY-HORN AND ASSOCIATES, INC.
2600 NORTH CENTRAL EXPRESSWAY
SUITE 400, RICHARDSON, TX 75080
PHONE: 214-617-0535



DATE
12/30/2024
SCALE AS SHOWN
DESIGNED BY IM

CITY OF LEWISVILLE OLD TOWN LEWISVILLE GATEWAY

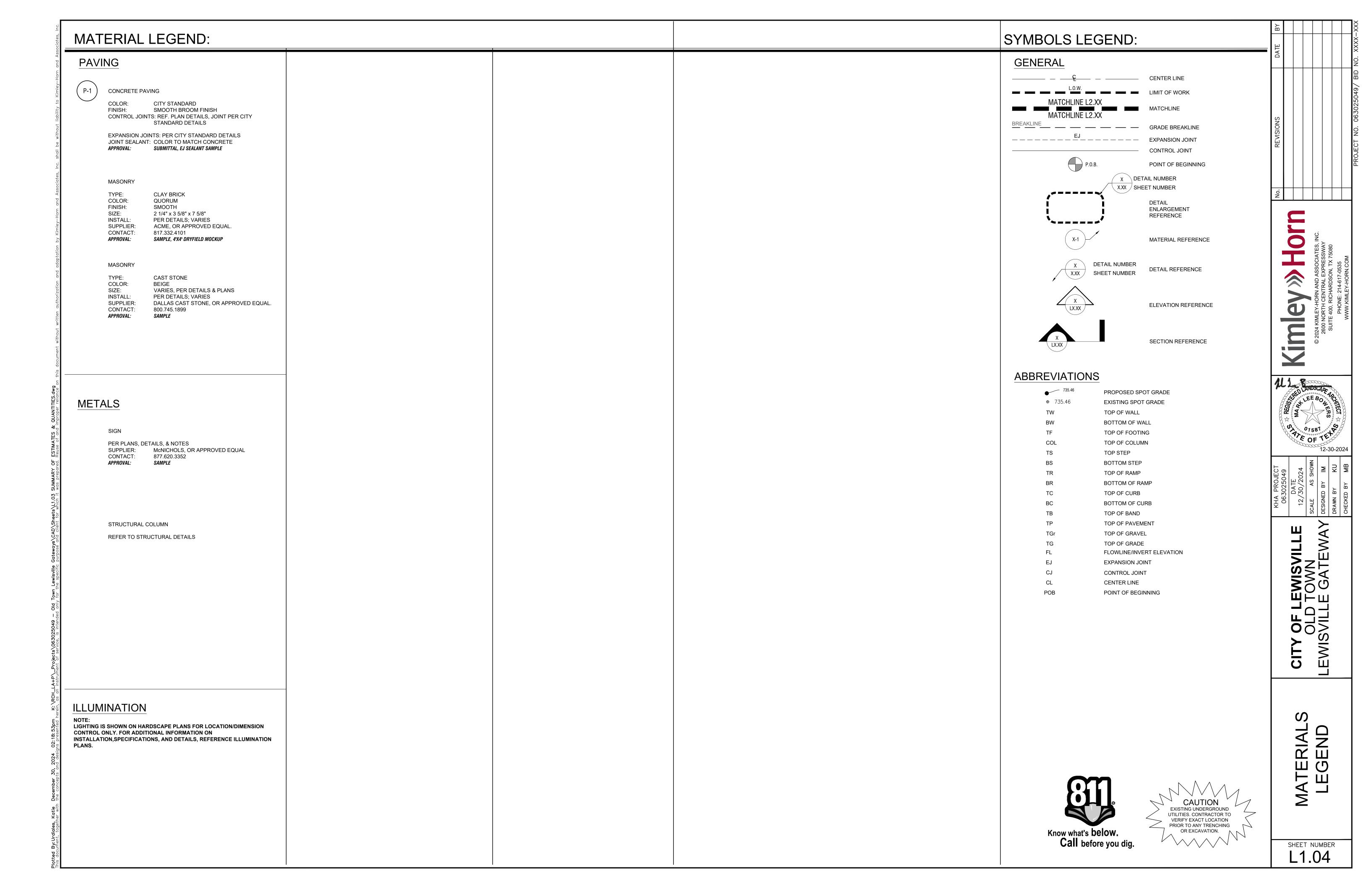
SUMMARY OF ESTIMATES & QUANTITIES

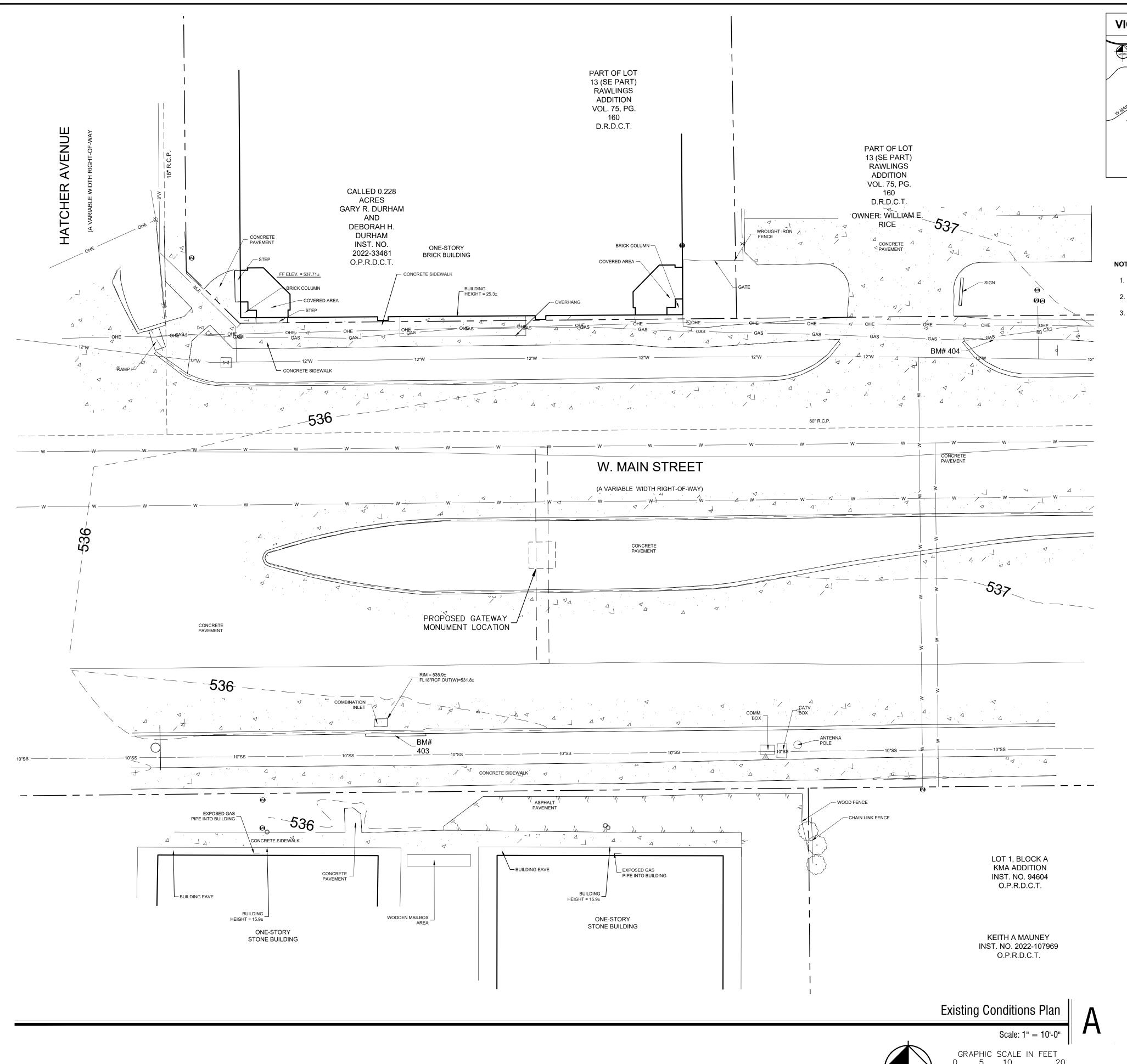


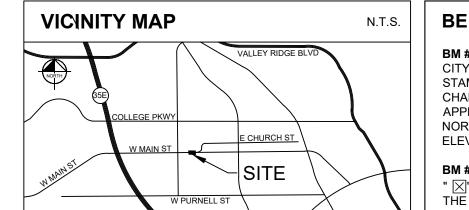
STING UNDERGROUND
LITIES. CONTRACTOR TO
RIFY EXACT LOCATION
OR TO ANY TRENCHING
OR EXCAVATION.

SHEET NUMBER

L1.03







#### **BENCHMARK LIST**

CITY BENCHMARK NO. 11 - 3 1/4" ALUMINUM DISK MONUMENT STAMPED #11, LOCATED APPROXIMATELY 191' EAST OF THE N. CHARLES STREET & W. CHURCH STREET INTERSECTION. APPROXIMATELY 3.3' NORTHEAST OF ELECTRIC VAULT & 3.4' NORTHEAST OF A BUS SIGN. ELEV = 525.15

#### BM #403

"  $\boxtimes$ " CUT SET ON THE SOUTH SIDE OF A COMBINATION INLET ON THE SOUTH SIDE OF W. MAIN STREET ±65' EAST OF THE INTERSECTION OF W. MAIN STREET AND HATCHER AVEUNE, ±76' WEST OF AN ANTENNA POLE AND ±50' EAST OF A "NO PARKING" SIGN.ELEV = 536.38

#### BM #404

"X" CUT SET ON THE SOUTH SIDE OF A CONCRETE SIDEWALK ON THE NORTH SIDE OF W. MAIN STREET ±175' EAST OF THE INTERSECTION OF W. MAIN STREET AND HATCHER AVEUNE, ±57' SOUTHEAST OF A POWERPOLE WITH TRANSFORMER AND ±10' SOUTHEAST OF A "KUZMICH LAW FIRM" SIGN. ELEV = 536.77

SCALE 1" = 10'-0" AT 22 X 34 SCALE 1" = 20'-0" AT 11 X 17

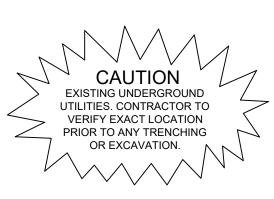
- 1. THIS IS A MAP PREPARED FOR SITE IMPROVEMENT DESIGN PURPOSES ONLY. THIS IS NOT A LAND TITLE OR BOUNDARY
- 2. BEARING SYSTEM BASED ON THE STATE PLANE COORDINATE SYSTEM OF 1983, TEXAS NORTH CENTRAL ZONE (4202), NORTH AMERICAN DATUM OF 1983 (2011).
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON AVAILABLE RECORD INFORMATION PROVIDED, SURFACE INDICATIONS, SUCH AS MANHOLES AND TEXAS811 UTILITY LOCATE MARKINGS. THE LOCATIONS SHOWN ARE APPROXIMATE

|                                   | EGEND   |                     |   |
|-----------------------------------|---|---------------------|---|
| <u> </u>                          | ROOF DRAIN                                      | $\boxtimes$         | MAIL BOX  |
| <u>™</u>                          | CABLE TV HANDHOLE                               |                     | NEWS STAND  |
| <u>∞</u><br>(7)                   | CABLE TV HANDHOLE  CABLE TV MANHOLE             |                     | PHONE BOOTH SECURITY CAMERA                             |
| $\overline{}$                     | CABLE TV MARKER FLAG                            |                     | TRASH BIN   |
| $\triangle$                       | CABLE TV MARKER SIGN                            | S                   | SANITARY SEWER BOX                                      |
|                                   | CABLE TV VAULT COMMUNICATIONS BOX               | <b>O</b>            | SANITARY SEWER CLEAN OUT                                |
| <u>o</u>                          | COMMUNICATIONS HANDHOLE                         | ভ                   | SANITARY SEWER HANDHOLE SANITARY SEWER LIFT STATION     |
| <u>Ö</u>                          | COMMUNICATIONS MANHOLE                          | 6                   | SANITARY SEWER METER                                    |
| Ů                                 | COMMUNICATIONS MARKER FLAG                      | S                   | SANITARY SEWER MANHOLE                                  |
|                                   | COMMUNICATIONS MARKER SIGN COMMUNICATIONS VAULT | <u>\$</u>           | SANITARY SEWER MARKER FLA                               |
| •                                 | ELEVATION BENCHMARK                             | (ST)                | SANITARY SEWER MARKER SIG<br>SANITARY SEWER SEPTIC TANK |
| $\stackrel{\bullet}{\Rightarrow}$ | FLOW DIRECTION                                  | ) 🛭                 | SANITARY SEWER VAULT                                    |
| F                                 | FIBER OPTIC BOX                                 | D                   | STORM SEWER BOX   |
| (F)                               | FIBER OPTIC HANDHOLE FIBER OPTIC MANHOLE        |                     | STORM SEWER DRAIN                                       |
| (f)                               | FIBER OPTIC MARKER FLAG                         | 6                   | STORM SEWER HANDHOLE STORM SEWER METER                  |
| Ā                                 | FIBER OPTIC MARKER SIGN                         | 0                   | STORM SEWER MANHOLE                                     |
| E                                 | FIBER OPTIC VAULT                               | Ô                   | STORM SEWER MARKER FLAG                                 |
| <u> </u>                          | MONITORING WELL                                 |                     | STORM SEWER MARKER SIGN STORM SEWER VAULT               |
| =-                                | FUEL TANK<br>GAS BOX                            | 1000                | TRAFFIC BARRIER   |
|                                   | GAS HANDHOLE                                    | •                   | TRAFFIC BOLLARD   |
| <u>G</u>                          | GAS METER                                       | TR                  | TRAFFIC BOX   |
| <u>(G)</u>                        | GAS MARKER FLAC                                 | ®                   | CROSS WALK SIGNAL                                       |
| <u>©</u><br>A                     | GAS MARKER FLAG GAS SIGN                        | (TR)                | TRAFFIC HANDHOLE TRAFFIC MANHOLE                        |
| <u> </u>                          | GAS TANK  | A                   | TRAFFIC MARKER SIGN                                     |
| G                                 | GAS VAULT                                       | ľ                   | TRAFFIC CAMERA  |
|                                   | GAS VALVE                                       | 風                   | TRAFFIC SENSOR  |
| <u>©</u><br>□                     | GAS WELL TELEPHONE BOX                          |                     | TRAFFIC SIGNAL TRAFFIC VAULT                            |
| <u> </u>                          | TELEPHONE HANDHOLE                              | U                   | UNIDENTIFIED BOX  |
| (T)                               | TELEPHONE MANHOLE                               | Θ                   | UNIDENTIFIED HANDHOLE                                   |
| <u>①</u>                          | TELEPHONE MARKER FLAG                           | (0)                 | UNIDENTIFIED METER                                      |
| <u>A</u>                          | TELEPHONE MARKER SIGN TELEPHONE VAULT           | 0                   | UNIDENTIFIED MANHOLE UNIDENTIFIED MARKER FLAG           |
| <u> </u>                          | PIPELINE BOX                                    | $\overline{\Delta}$ | UNIDENTIFIED MARKER SIGN                                |
| ®                                 | PIPELINE HANDHOLE                               | Ø                   | UNIDENTIFIED POLE                                       |
| <u>0</u>                          | PIPELINE MANUOLE                                | 9                   | UNIDENTIFIED YALLI                                      |
| (P)<br>(D)                        | PIPELINE MANHOLE PIPELINE MARKER FLAG           |                     | UNIDENTIFIED VAULT UNIDENTIFIED VALVE                   |
| Ā                                 | PIPELINE MARKER SIGN                            | Ю                   | TREE  |
|                                   | PIPELINE VAULT                                  | W                   | WATER BOX   |
|                                   | PIPELINE VALVE                                  | <u>α</u>            | FIRE DEPT. CONNECTION                                   |
| <u>₩</u>                          | FLOOD LIGHT                                     | <del>-</del>        | WATER HAND HOLE<br>FIRE HYDRANT                         |
| $\rightarrow$                     | GUY ANCHOR                                      | <b>Ø</b>            | WATER METER   |
| <b>⊕</b>                          | GUY ANCHOR POLE                                 | (W)                 | WATER MANHOLE   |
| <u> </u>                          | ELECTRIC MANHOLE                                | <u> </u>            | WATER MARKER FLAG                                       |
| <u>•</u>                          | LIGHT STANDARD ELECTRIC METER                   | <u> </u>            | WATER MARKER SIGN WATER TANK                            |
| Ē                                 | ELECTRIC MANHOLE                                | W                   | WATER VAULT   |
| Û                                 | ELECTRIC MARKER FLAG                            | Χ                   | WATER VALVE   |
| <u></u>                           | ELECTRIC MARKER SIGN                            | Ø                   | AIR RELEASE VALVE                                       |
| <u>Ø</u> _                        | UTILITY POLE ELECTRIC SWITCH                    | IRSC                | WATER WELL 5/8" IRON ROD W/ "KHA" CAP SE                |
| Ť                                 | ELECTRIC SWITCH  ELECTRIC TRANSFORMER           | IRFC                |   |
|                                   | ELECTRIC VAULT                                  | PKS                 | PK NAIL SET   |
| <u>~</u>                          | HANDICAPPED PARKING                             | PKF                 | PK NAIL FOUND   |
| -U<br>RR                          | PARKING METER RAILROAD BOX                      | IRF                 | IRON ROD FOUND "X" CUT IN CONCRETE SET                  |
|                                   | RAILROAD BOX RAILROAD HANDHOLE                  | XS<br>XF            | "X" CUT IN CONCRETE SET                                 |
| <u> </u>                          | RAILROAD SIGNAL                                 |                     | . POINT OF BEGINNING                                    |
| 8                                 | RAILROAD SIGN                                   | P.O.C               | POINT OF COMMENCING                                     |
| RR                                | RAILROAD VAULT                                  |                     |   |
| 0                                 | SIGN<br>MARQUEE/BILLBOARD                       |                     |   |
| 0                                 | A/C UNIT  |                     |   |
| <del>\</del>                      | BASKET BALL GOAL                                |                     |   |
| 0                                 | BORE LOCATION                                   |                     |   |
| •                                 | FLAG POLE                                       |                     |   |
| _                                 | GOAL POST                                       | ì                   |   |
| $\overline{}$                     | GREASE TRAP                                     |                     |   |

| LINE TYPE LEGEND         |                            |  |  |  |  |
|--------------------------|----------------------------|--|--|--|--|
|                          | BOUNDARY LINE              |  |  |  |  |
|                          | ADJACENT PROPERTY LINE     |  |  |  |  |
|                          | EASEMENT LINE              |  |  |  |  |
|                          | BUILDING LINE              |  |  |  |  |
| w                        | WATER LINE                 |  |  |  |  |
| ss                       | SANITARY SEWER LINE        |  |  |  |  |
| SD                       | STORM SEWER LINE           |  |  |  |  |
| —— GAS——                 | UNDERGROUND GAS LINE       |  |  |  |  |
| —— OHL——                 | OVERHEAD UTILITY LINE      |  |  |  |  |
| ——— UGE———               | UNDERGROUND ELECTRIC LINE  |  |  |  |  |
| —— UGT——                 | UNDERGROUND TELEPHONE LINE |  |  |  |  |
| <del>-x -x -x -x -</del> | FENCE                      |  |  |  |  |
|                          | CONCRETE PAVEMENT          |  |  |  |  |
| 1 1/1 1/1                | ASPHALT PAVEMENT           |  |  |  |  |

Know what's below.

Call before you dig.



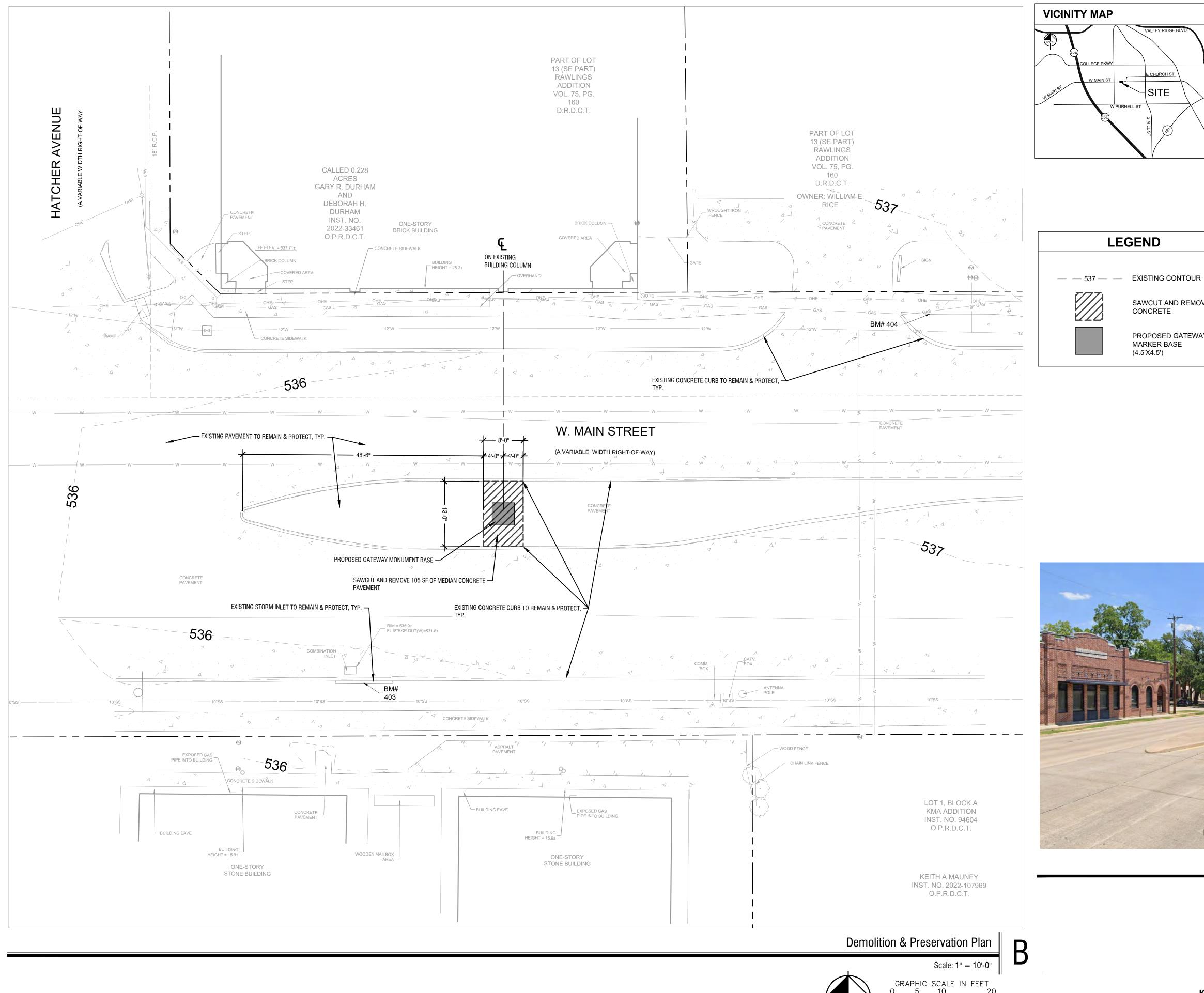
EXISTING CONDITIONS

CITY OF LEWISVILLE OLD TOWN EWISVILLE GATEWAY

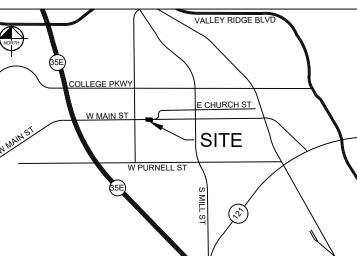
SCAL DESIN

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SHEET NUMBER L1.05



#### **BENCHMARK LIST** N.T.S.



**LEGEND** 

SAWCUT AND REMOVE

PROPOSED GATEWAY

CONCRETE

MARKER BASE

(4.5'X4.5')

CITY BENCHMARK NO. 11 - 3 1/4" ALUMINUM DISK MONUMENT STAMPED #11, LOCATED APPROXIMATELY 191' EAST OF THE N. CHARLES STREET & W. CHURCH STREET INTERSECTION, APPROXIMATELY 3.3' NORTHEAST OF ELECTRIC VAULT & 3.4' NORTHEAST OF A BUS SIGN. ELEV = 525.15

BM #403

" X CUT SET ON THE SOUTH SIDE OF A COMBINATION INLET ON THE SOUTH SIDE OF W. MAIN STREET ±65' EAST OF THE INTERSECTION OF W. MAIN STREET AND HATCHER AVEUNE, ±76' WEST OF AN ANTENNA POLE AND ±50' EAST OF A "NO PARKING" SIGN.ELEV = 536.38

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THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING

#### **REMOVAL NOTES**

THE LOCATION OF ALL EXISTING UTILITIES WITH THE CITY, AND THE VARIOUS UTILITY COMPANIES. ANY UTILITIES WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE PROMPTLY REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER. SHOULD ANY MODIFICATIONS BE REQUIRED, CONTACT THE OWNER IMMEDIATELY, PRIOR TO MAKING THE CHANGE. CALL TEXAS ONE TO MARK AND LOCATE UTILITIES

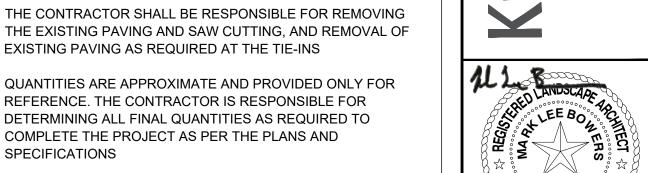
THE CONTRACTOR SHALL COORDINATE THE LIMITS OF REMOVAL WORK WITH THE OWNER

ALL REMOVAL ITEM DEBRIS (UNLESS OTHERWISE NOTED) BECOMES THE PROPERTY OF THE CONTRACTOR AND MUST BE REMOVED FROM THE SITE

THE EXISTING PAVING AND SAW CUTTING, AND REMOVAL OF EXISTING PAVING AS REQUIRED AT THE TIE-INS

QUANTITIES ARE APPROXIMATE AND PROVIDED ONLY FOR REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL FINAL QUANTITIES AS REQUIRED TO COMPLETE THE PROJECT AS PER THE PLANS AND SPECIFICATIONS

CONTRACTOR WILL BE RESPONSIBLE FOR ANY UNDERGROUND UTILITY DEMOLITION AND MISCELLANEOUS SAW CUTTING AND TIE-INS AT EXISTING PAVING AND UTILITIES



LEWISVILLE D TOWN LE GATEWAY

ESERVATION PLAN **DEMOL** PRE

SHEET NUMBER

L1.06

Know what's below.

Call before you dig.



Main Street to the East

Scale: NTS

00

SCALE 1" = 10'-0" AT 22 X 34 SCALE 1" = 20'-0" AT 11 X 17

#### TRAFFIC CONTROL NOTES

- 1. THESE NOTES PERTAIN TO TRAFFIC CONTROL MEASURES ALONG MAIN STREET, HATCHER AVENUE AND W CHURCH STREET. THE CONTRACTOR SHALL PROVIDE, CONSTRUCT, AND MAINTAIN BARRICADES AND SIGNS IN ACCORDANCE WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AASHTO, CITY OF LEWISVILLE DESIGN CRITERIA MANUAL, AND THE TRAFFIC CONTROL NARRATIVE INCLUDED IN THE PLANS.
- 2. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS FOR REVIEW PRIOR TO CONSTRUCTION.
- . MINIMUM REQUIREMENTS FOR TRAFFIC CONTROL SHALL INCLUDE:
- 3.1. MAINTAINING ACCESS TO ALL CROSS STREETS.
  - A MINIMUM OF ONE LANE OF EASTBOUND AND ONE LANE WESTBOUND TRAFFIC ALONG MAIN STREET SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESS LOCATIONS AT ALL TIMES DURING CONSTRUCTION.

  CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS TO ALL ADDRESSES IN THE PROJECT AREA AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH THE CITY REGARDING EMERGENCY SERVICE ACCESS PRIOR TO PLANNED LANE, ROADWAY OR INTERSECTION CLOSURES.
- 5. TRAFFIC CONTROL MEASURES THAT AFFECT EXISTING SIGNAL OPERATIONS SHALL BE PROHIBITED, UNLESS APPROVED BY THE CITY PRIOR TO IMPLEMENTATION.
- 4. DAILY LANE CLOSURES FOR WORK ON MAIN STREET MAY BE IMPLEMENTED BETWEEN THE HOURS OF 7:00 A.M. TO 7:00 P.M., MONDAY THROUGH FRIDAY, PROVIDED THE CLOSURES DO NOT PROHIBIT ONE-LANE OF EASTBOUND AND ONE-LANE WESTBOUND TRAFFIC. ANY REQUEST TO WORK ON A SATURDAY MUST BE MADE PRIOR TO 12:00 P.M. ON THURSDAY AFTERNOON TO THE CITY. NO LONG TERM LANE CLOSURES WILL BE ALLOWED WITHOUT CITY APPROVAL. WORK SHALL BE DONE ONLY DURING THE HOURS APPROVED BY THE CITY UNLESS WRITTEN APPROVAL FOR EXTENDED HOURS IS OBTAINED FROM THE CITY.
- 5. CONTRACTOR SHALL NOTIFY THE CITY OF LEWISVILLE AT LEAST 48 HOURS IN ADVANCE OF IMPLEMENTING TRAFFIC CONTROL MEASURES AT INTERSECTIONS.
- 6. EXISTING PEDESTRIAN ROUTES SHALL BE MAINTAINED AT ALL TIMES OR DETOURED AROUND THE WORK ZONE.
  PEDESTRIAN TRAFFIC CONTROL SHALL INCLUDE ADVANCED WARNING AND APPROPRIATE SAFETY FEATURES IN
  ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AASHTO AND CITY GUIDELINES.
  PEDESTRIAN ROUTES SHALL BE INCLUDED WITH THE CONTRACTOR'S SUBMITTED TEMPORARY TRAFFIC CONTROL PLAN.
- 7. OTHER CONSTRUCTION IMPACTING TRAFFIC PATTERNS IN THE PROJECT AREA MAY TAKE PLACE DURING THIS PROJECT. CONTRACTOR SHALL COORDINATE ANY NECESSARY LANE CLOSURES WITH OTHER WORK TO MAINTAIN TRAFFIC FLOW, ENSURE SAFETY, AND MINIMIZE THE INCONVENIENCE TO THE TRAVELING PUBLIC.
- 8. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. WHEN WORK IS SUSPENDED FOR SHORT PERIODS OF TIME AT THE END OF THE WORKDAY, TEMPORARY TRAFFIC CONTROL DEVICES THAT ARE NO LONGER APPROPRIATE SHALL BE REMOVED OR COVERED.
- 9. ALL EXISTING SIGNS THAT ARE IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SETUP SHALL BE REMOVED OR COVERED SO THAT THEY ARE NOT VISIBLE.
- 10. CONTRACTOR SHALL PROVIDE TEMPORARY SIGN ADJUSTMENTS DURING CONSTRUCTION.
- 11. ALL WORK REQUIRED UNDER THIS CONSTRUCTION CONTRACT SHALL BE FULLY COMPLETED AND READY FOR
- ACCEPTANCE IN ACCORDANCE WITH THE CONTRACT TIME STATED IN THE CONSTRUCTION CONTRACT.

  12. WORK WITHIN THE ROADWAY SHALL BE CONSTRUCTED IN ONE PHASE OF WORK AS DESCRIBED IN THE TRAFFIC CONTROL NARRATIVE. CONTRACTOR SHALL RECEIVE THE CITY'S APPROVAL BEFORE INITIATING WORK. ALL TRAFFIC CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT. CONTRACTOR MAY, AT HIS OPTION, SUBMIT AN ALTERNATE CONSTRUCTION PHASING NARRATIVE FOR CITY REVIEW AND APPROVAL. ANY ALTERNATE PHASING SHALL BE SUBMITTED PRIOR TO THE PRE-CONSTRUCTION MEETING.

#### **EROSION CONTROL NOTES**

- 1. EROSION CONTROL DEVICES FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBING ACTIVITIES ON THE PROJECT.
- 2. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED DURING SITE PREP IN ACCORDANCE WITH THE CITY OF LEWISVILLE
- CONSTRUCTION STANDARDS.

  3. THE CITY OF LEWISVILLE CONSTRUCTION STANDARDS APPLY WHETHER INDICATED ON THESE PLANS OR NOT.
- 4. ALL PROPER EROSION CONTROL SHALL BE IN PLACE PRIOR TO THE DISTURBANCE OF ANY EXISTING SURFACE.
- 5. ALL DISTURBED AREAS SHALL BE STABILIZED PRIOR TO FINAL ACCEPTANCE.6. REMOVE EROSION CONTROL DEVICES BEFORE OPENING ROADWAY TO TRAFFIC.

#### TRAFFIC CONTROL NARRATIVE

#### CONSTRUCTION

CONSTRUCTION OF THE OLD TOWN LEWISVILLE GATEWAY MONUMENT IN THE MEDIAN NEAR W MAIN STREET AND HATCHER AVENUE WILL BE PERFORMED IN ONE PHASE.

- 1. PLACE TEMPORARY CHANNELIZING DEVICES TO CLOSE INSIDE LANES AND ADVANCED SIGNAGE AS NEEDED TO MAINTAIN ONE LANE OF TRAFFIC BOTH WESTBOUND AND EASTBOUND ON W MAIN STREET. PROVIDE A 12' TRAVEL LANE WITH A MINIMUM 4' STRIPED WIDTH (16' TOTAL MINIMUM) FOR EMERGENCY ACCESS.
- 2. CONSTRUCT THE OLD TOWN LEWISVILLE GATEWAY MONUMENT PER PLANS.
- REMOVE ALL TEMPORARY SIGNS AND CHANNELIZING DEVICES AFTER COMPLETION.

| ВУ        |  |  |  | X<br>X-                                 |
|-----------|--|--|--|---|
| DATE      |  |  |  | -XXXX                                   |
| D         |  |  |  | NO.                                     |
|           |  |  |  | BID                                     |
| REVISIONS |  |  |  | PROJECT NO. 063025049/ BID NO. XXXX—XXX |
| No.       |  |  |  |   |
|           |  |  |  |   |





12/30/2024
SCALE AS SHOWN
DESIGNED BY IM
DRAWN BY KU

CITY OF LEWISVILLE OLD TOWN LEWISVILLE GATEWAY

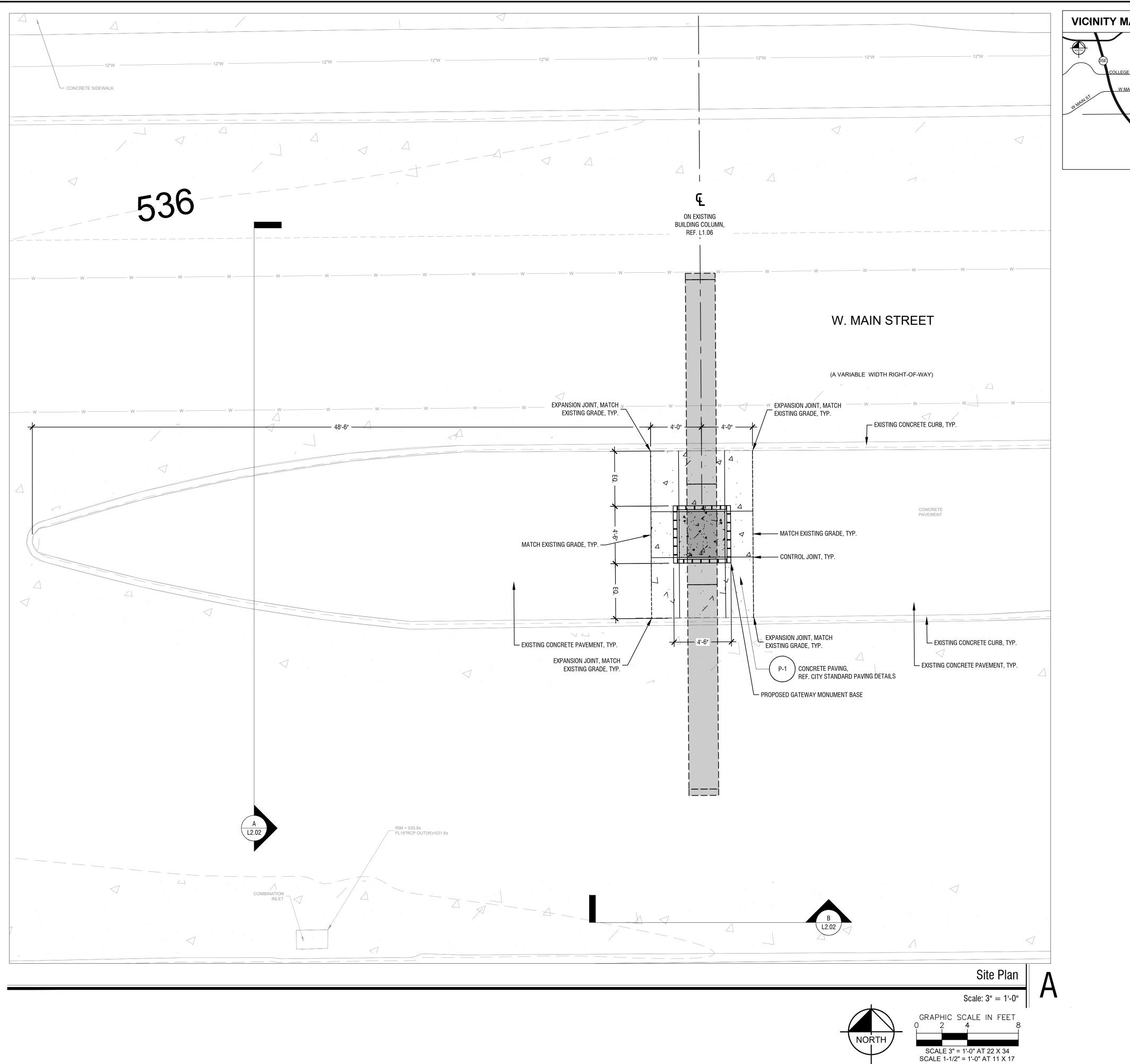
TRAFFIC

SHEET NUMBER

L1.07







VICINITY MAP N.T.S.

#### **BENCHMARK LIST**

CITY BENCHMARK NO. 11 - 3 1/4" ALUMINUM DISK MONUMENT STAMPED #11, LOCATED APPROXIMATELY 191' EAST OF THE N. CHARLES STREET & W. CHURCH STREET INTERSECTION, APPROXIMATELY 3.3' NORTHEAST OF ELECTRIC VAULT & 3.4' NORTHEAST OF A BUS SIGN. ELEV = 525.15

#### BM #403

" 🖂 " CUT SET ON THE SOUTH SIDE OF A COMBINATION INLET ON THE SOUTH SIDE OF W. MAIN STREET ±65' EAST OF THE INTERSECTION OF W. MAIN STREET AND HATCHER AVEUNE, ±76' WEST OF AN ANTENNA POLE AND ±50' EAST OF A "NO PARKING" SIGN.ELEV = 536.38

#### BM #404

"X" CUT SET ON THE SOUTH SIDE OF A CONCRETE SIDEWALK ON THE NORTH SIDE OF W. MAIN STREET ±175' EAST OF THE INTERSECTION OF W. MAIN STREET AND HATCHER AVEUNE, ±57' SOUTHEAST OF A POWERPOLE WITH TRANSFORMER AND ±10' SOUTHEAST OF A "KUZMICH LAW FIRM" SIGN. ELEV = 536.77

#### **LEGEND**

PROP PAVEMENT 



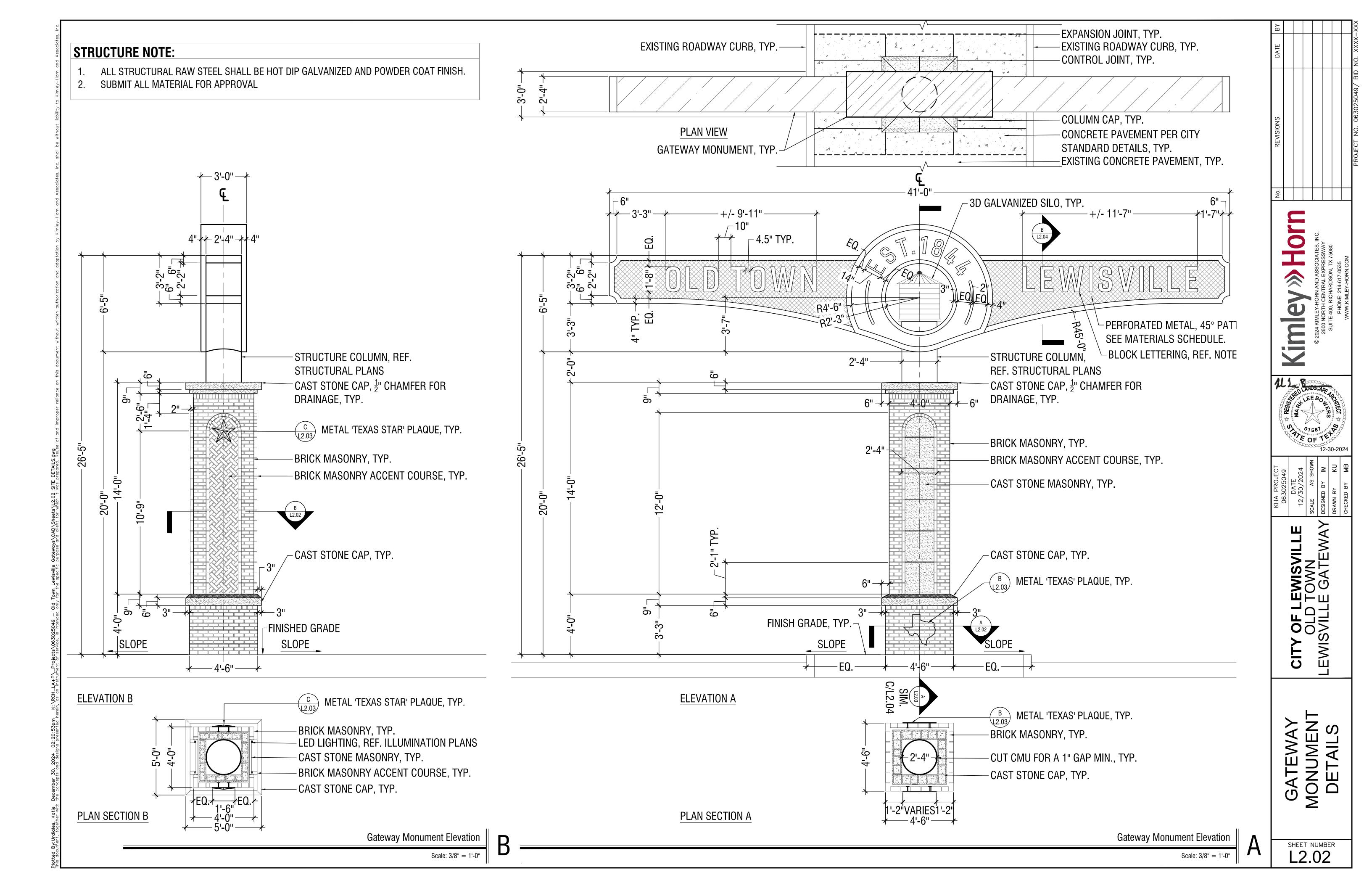
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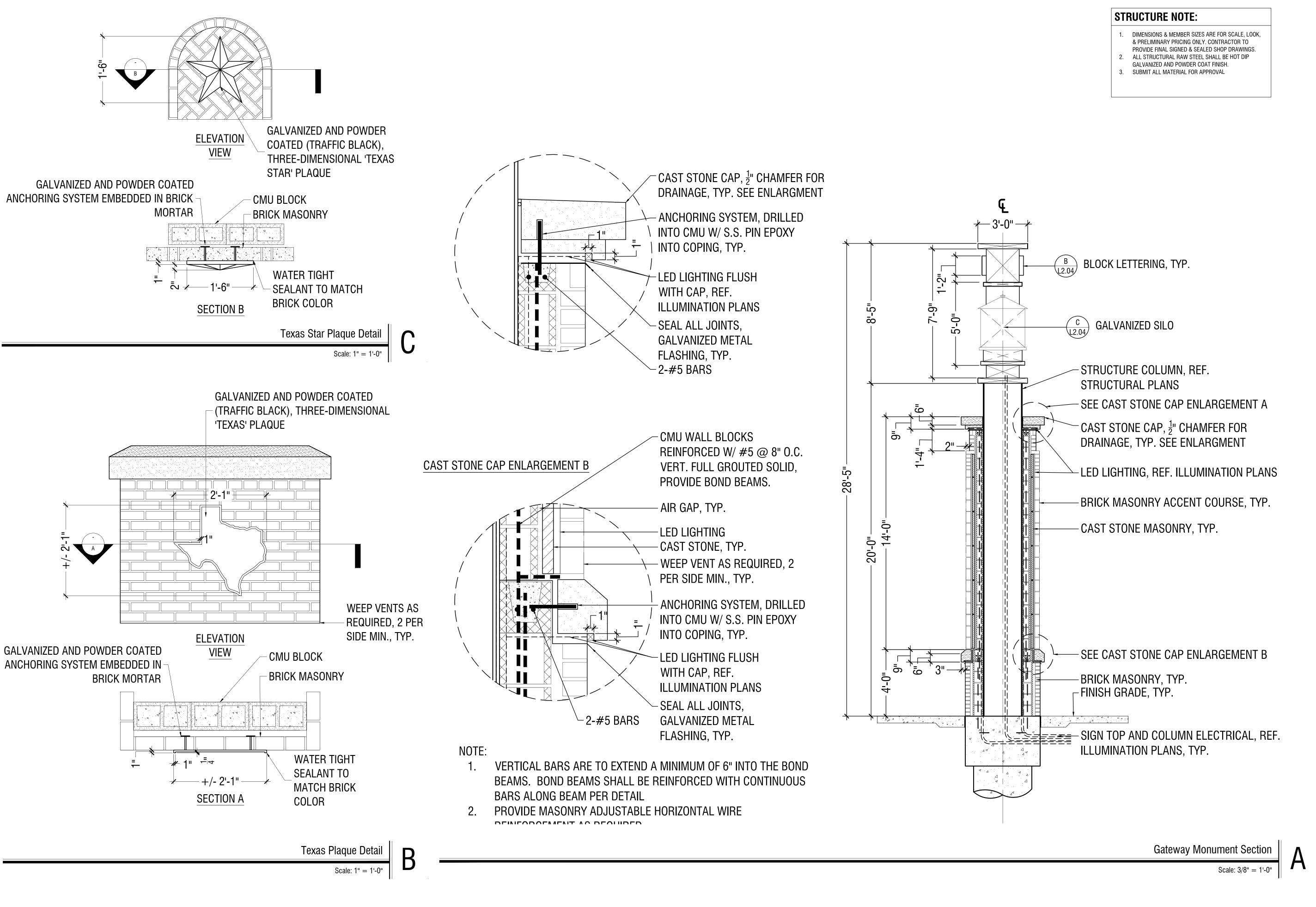
CITY OF LEWISVILLE OLD TOWN LEWISVILLE GATEWAY

CAUTION

EXISTING UNDERGROUND
UTILITIES. CONTRACTOR TO
VERIFY EXACT LOCATION
PRIOR TO ANY TRENCHING
OR EXCAVATION. SHEET NUMBER L2.01







Horn

SCAL DESIO

CITY OF LEWISVILLE OLD TOWN EWISVILLE GATEWAY

SHEET NUMBER L2.03

MONUMENT DETAILS

#### **GENERAL NOTES:**

A. STRUCTURAL STEEL: FABRICATED STEEL FORM WITH INTERNAL METAL FRAME. WELDED AND MECHANICAL CONSTRUCTION (NO ADHESIVE) OF STEEL PANELS AND PERFORATED MESH TO FRAME. NON-CORROSIVE HARDWARE TO BE PAINT FINISHED TO MATCH SURROUNDING AREA. BOTTOM AND PERFORATED MESH PANELS CONFIGURED TO BE REMOVABLE FOR INSTALLATION AND SERVICING. INCORPORATE SHELF INSIDE ASSEMBLY FOR POWER SUPPLY AND NEON LIGHTING CONTROL. POWDER COAT 'POWDURA 5000 OR EQUAL FINISH ALL INTERIOR AND EXTERIOR SURFACES, 'TRAFFIC BLACK.' CONCEALED CONNECTION TO CONCRETE BASE/FOOTING. INCORPORATE WATER WEEP HOLES AS REQUIRED.

PERFORATED METAL MESH: MCNICHOLS PERFORATED METAL OR EQUAL, MILL FINISH, 11 GAUGE MIN. 3" SQUARE ON 1" STRAIGHT CENTERS, <sup>1</sup>/<sub>4</sub>" BAR WIDTH, 1.0 HOLES PER SQUARE INCH, MINIMUM SOLID MARGINS BOTH SIDES OF SHEET PARALLEL TO LENGTH OF SHEET WITH 50-56% OPEN AREA. POWER COATING AND FINISH PER STRUCTURAL STEEL. ELEVATION PATTER AT 45 DEGREE.

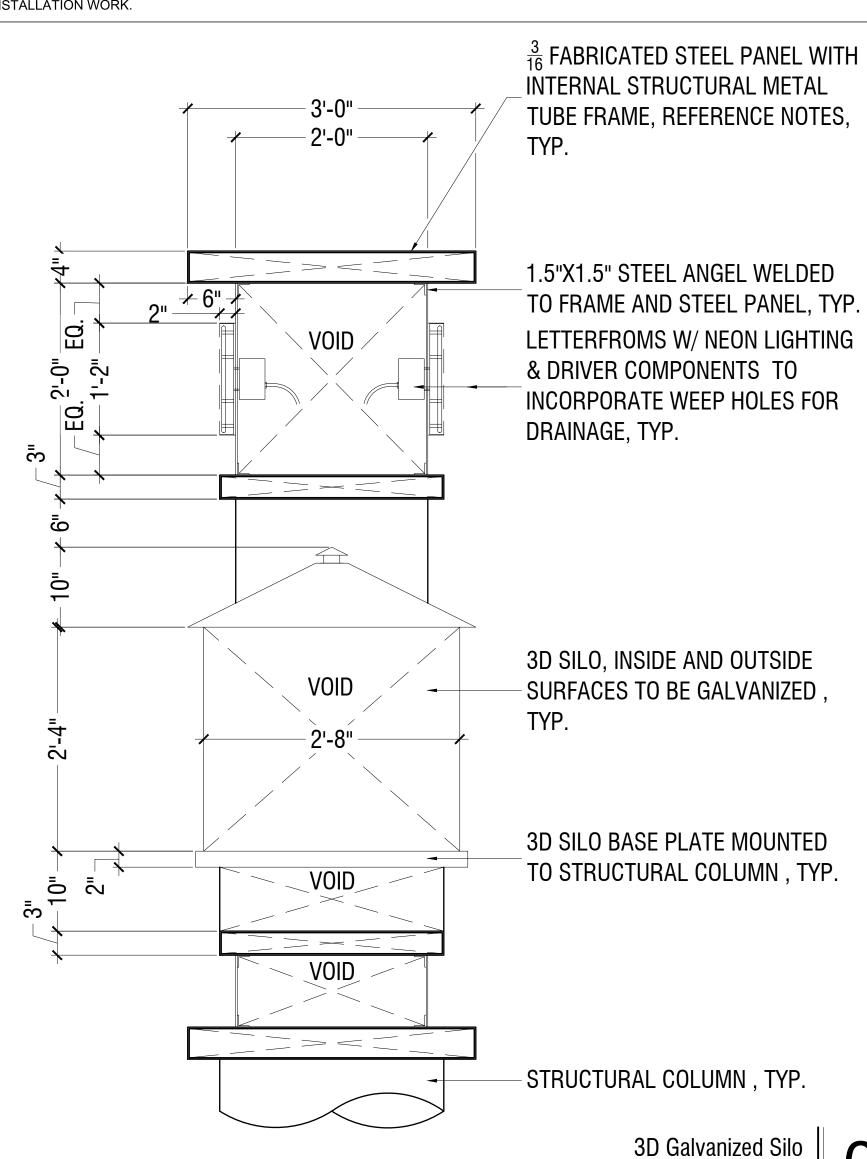
B. LETTERFORMS 'OLD TOWN LEWISVILLE': 3" DEEP FABRICATED ALUMINUM LETTERFORMS (0.125" BACK, AND 0.080" RETURNS). INTERNAL STRUCTURE AS REQUIRED, NEON ILLUMINATED. WELDED CONSTRUCTION, TIGHT SEAMLESS APPEARANCE AT ALL JOINTS. INSIDE SURFACES TO BE PAINTED WITH LIGHT-ENHANCING WHITE COATING. POWDER COAT 'POWDURA 5000 OR EQUAL FINISH ALL SURFACES, 'MATHEWS MP 32071 WHITE WONDER (WHITE), CONCEALED MECHANICAL MOUNT FLUSH TO PERFORATED MESH, POSITIONING AS INDICATED. INCORPORATE WATER WEEP HOLES AS REQUIRED.

TYPOGRAPHY: GINESO-CONDENSED BOOK, SIZED AS INDICATED, OPTICALLY KERNED, TRACKING SET TO 85%.

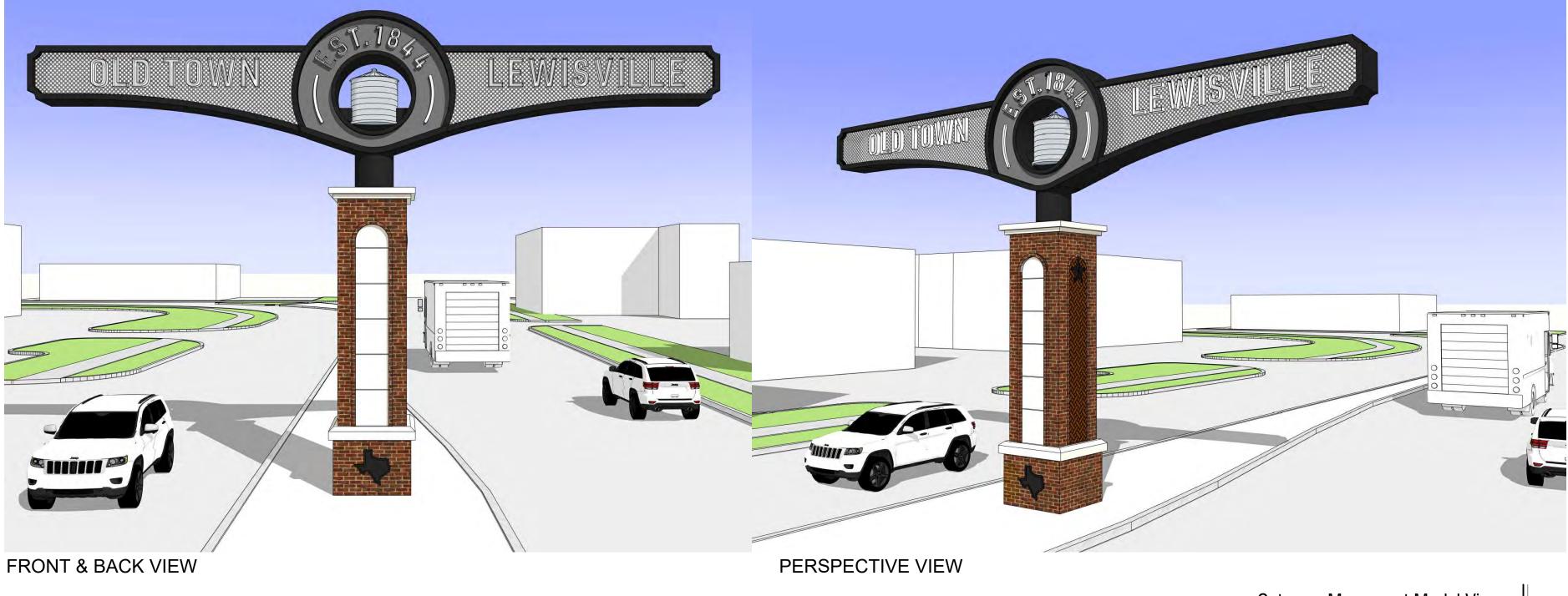
LETTERFORMS 'EST. 1844' & ACCENT RADIAL LINE: 2" DEEP FABRICATED ALUMINUM LETTERFORMS (0.125" BACK, AND 0.080" RETURNS). INTERNAL STRUCTURE AS REQUIRED. NEON ILLUMINATED. WELDED CONSTRUCTION, TIGHT SEAMLESS APPEARANCE AT ALL JOINTS. INSIDE SURFACES TO BE PAINTED WITH LIGHT-ENHANCING WHITE COATING. POWDER COAT 'POWDURA 5000 OR EQUAL FINISH ALL SURFACES, 'MATHEWS MP 32071 WHITE WONDER (WHITE).' CONCEALED MECHANICAL MOUNT FLUSH TO PERFORATED MESH, POSITIONING AS INDICATED. INCORPORATE WATER WEEP HOLES AS REQUIRED.

TYPOGRAPHY: GINESO-CONDENSED BOOK, SIZED AS INDICATED, OPTICALLY KERNED, TRACKING SET TO 85%.

- C. 3D SILO: INTERNAL AND MOUNTING STRUCTURE AS REQUIRED. WELDED CONSTRUCTION, TIGHT SEAMLESS APPEARANCE AT ALL JOINTS. INSIDE AND EXTERIOR SURFACES TO BE GALVANIZED. CONCEALED MECHANICAL MOUNT TO STRUCTURAL COLUMN AND BASE PLATE, POSITIONING AS INDICATED. SILO MAY BE UTILIZED AS WEATHER TIGHT CABINET FOR NEON LIGHTING EQUIPMENT HOUSING. INCORPORATE WATER WEEP HOLES AS REQUIRED. SIZED AS INDICATED.
- D. ILLUMINATION: PER ILLUMINATION PLANS AND NOTES.
- CONTRACTOR TO COORDINATE WITH GATEWAY MONUMENT FABRICATOR ON FOOTING INSTALLATION AND REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT GATEWAY MONUMENT SHOP AND FOUNDATION DRAWINGS BY A LICENSED ENGINEER (TEXAS) FOR REVIEW TO THE PROJECT LANDSCAPE ARCHITECT/ENGINEER AND CITY FOR APPROVAL.
- G. MODEL VIEW DRAWINGS ARE A PICTORIAL REPRESENTATION OF THE GATEWAY MONUMENT AND STEEL ONLY.
- H. ALL DIMENSIONS AND HEIGHTS MUST BE FIELD AND SHOP DRAWING VERIFIED PRIOR TO ANY FINAL DESIGN, FABRICATION OR INSTALLATION WORK.

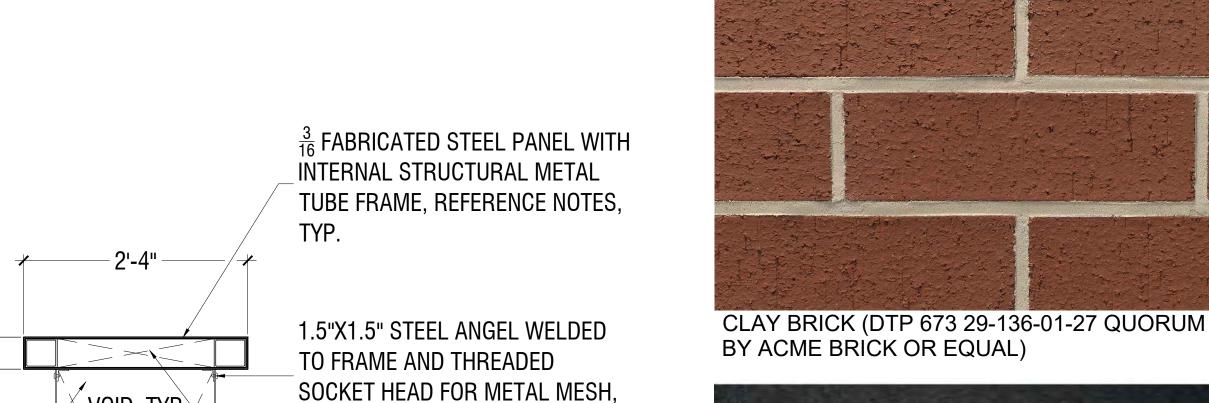


Scale: 1" = 1'-0"



**Gateway Monument Model Views** 

Scale: NTS

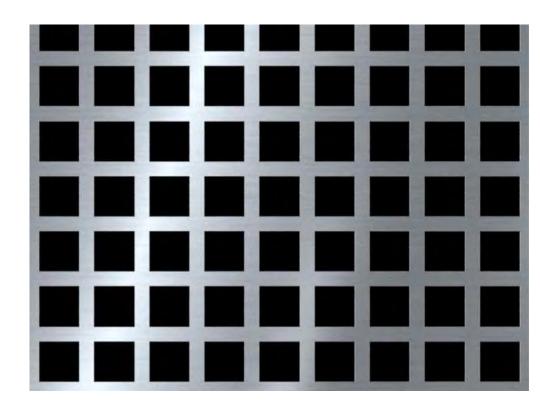




POWDER COATED METAL (TRAFFIC BLACK)



CAST STONE (BEIGE)



PERFORATED METAL (TRAFFIC BLACK)

LETTERFROMS W/ NEON LIGHTING

INCORPORATE WEEP HOLES FOR

REMOVABLE FOR SERVICING NEON

& DRIVER COMPONENTS TO

PERFORATED METAL MESH,

LIGHTING COMPONENTS W/

STAINLESS STEEL BARREL

SPACERS AS REQUIRED, TYP.

DRAINAGE, TYP.

VOID, TYP.

Scale: 1" = 1'-0"

**Gateway Monument Materials** 

Scale: NTS

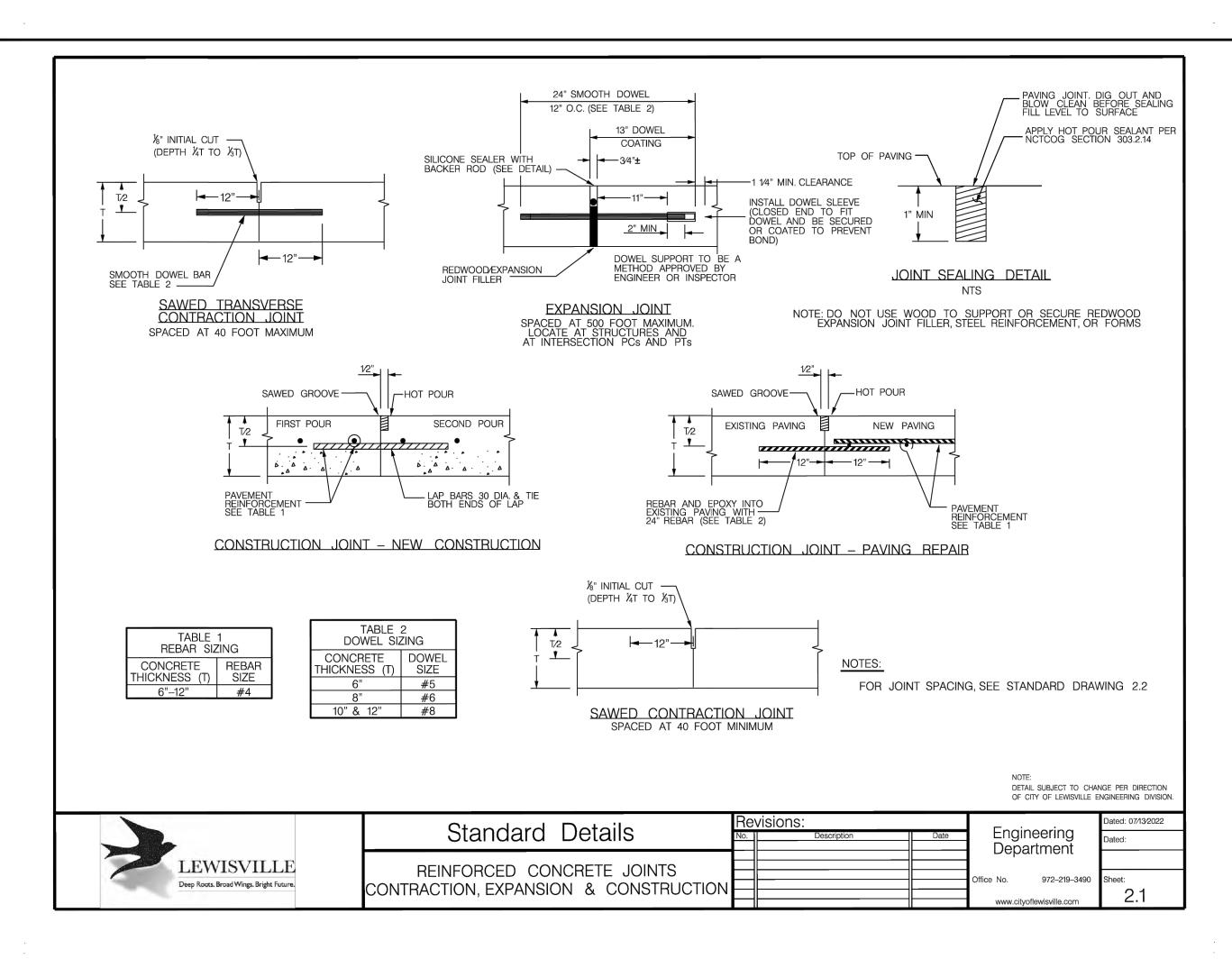
MONUMENT DETAILS ATEWAY

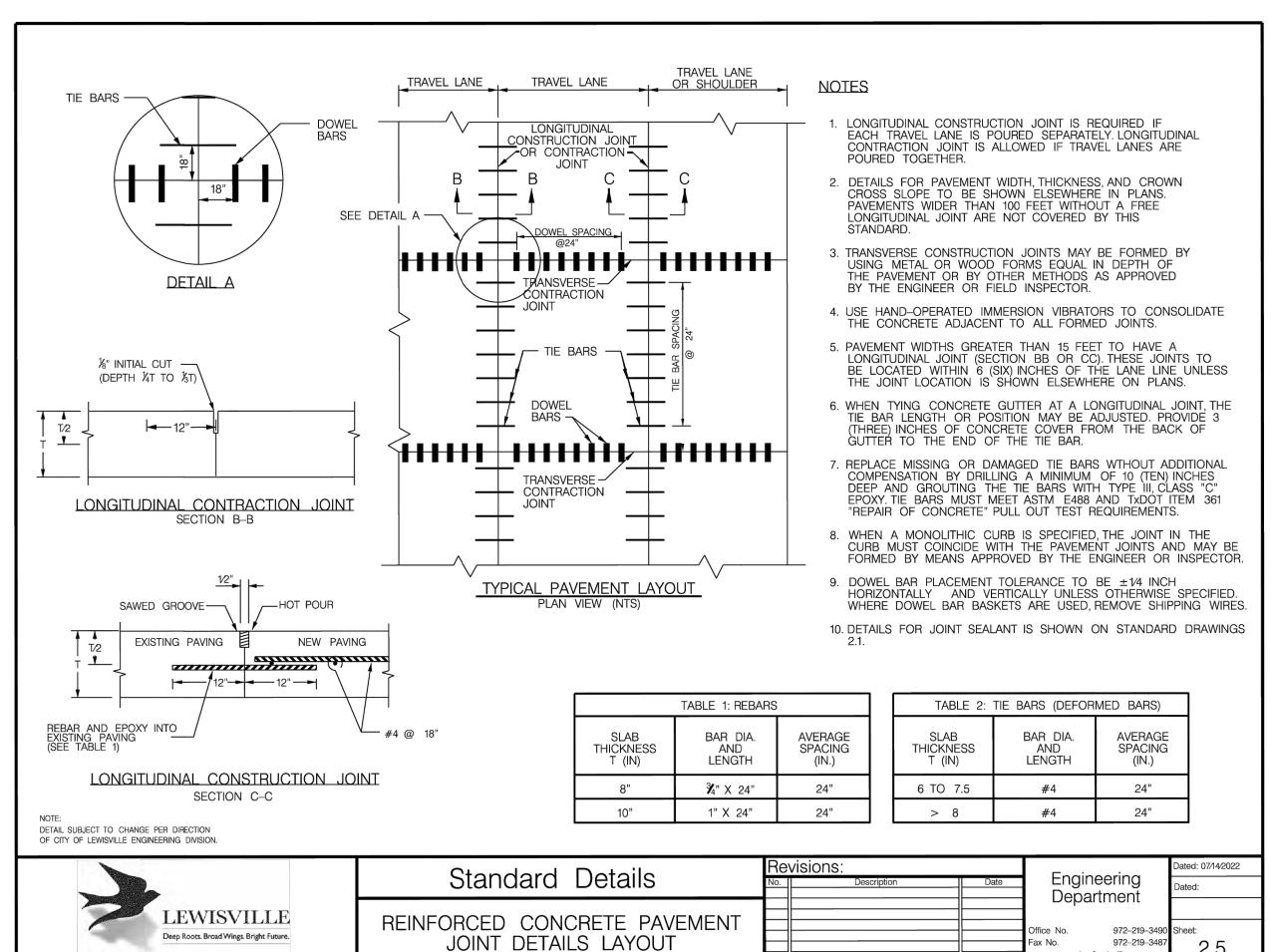
> SHEET NUMBER L2.04

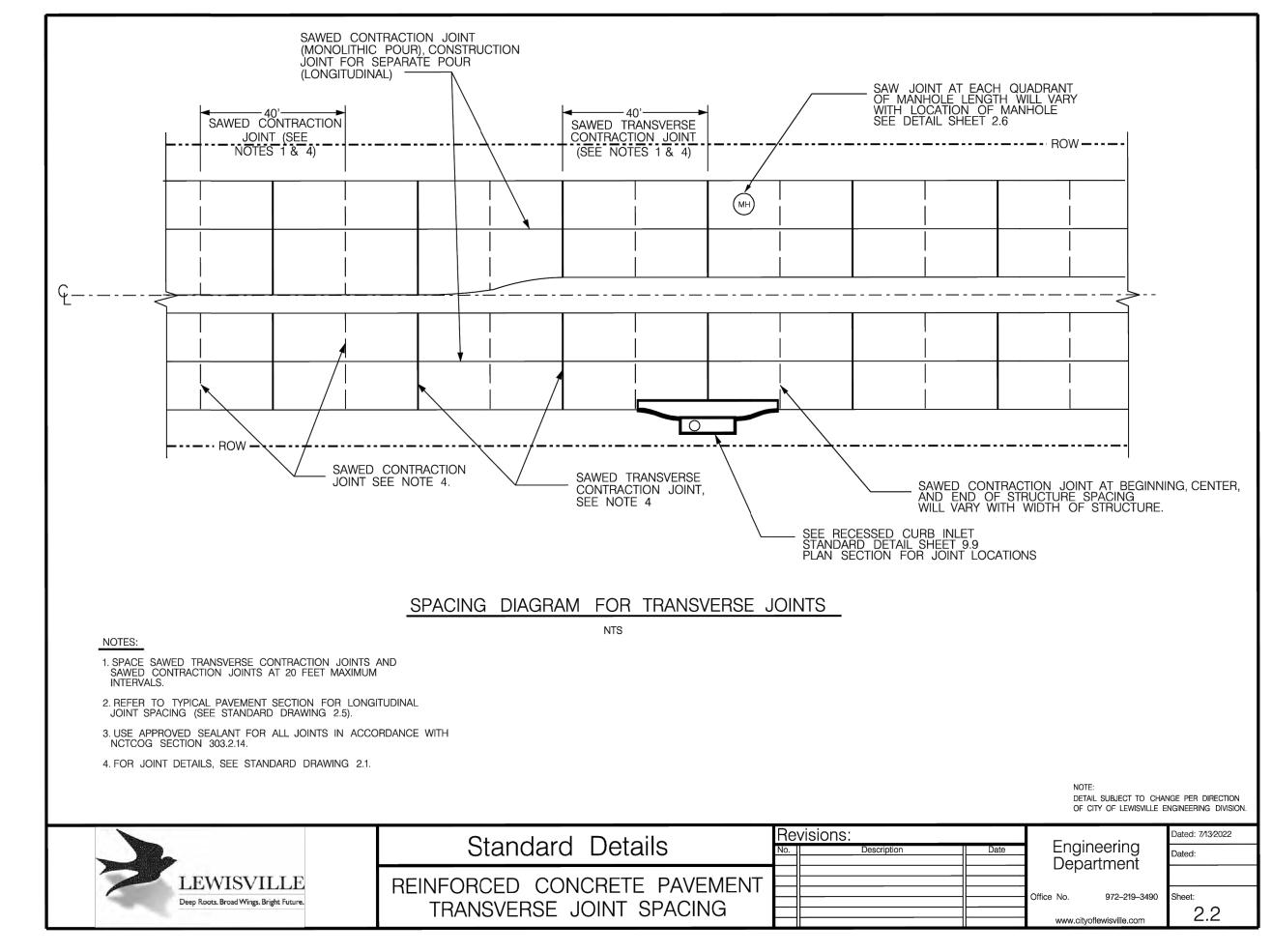
SCAL DESIO DRAV

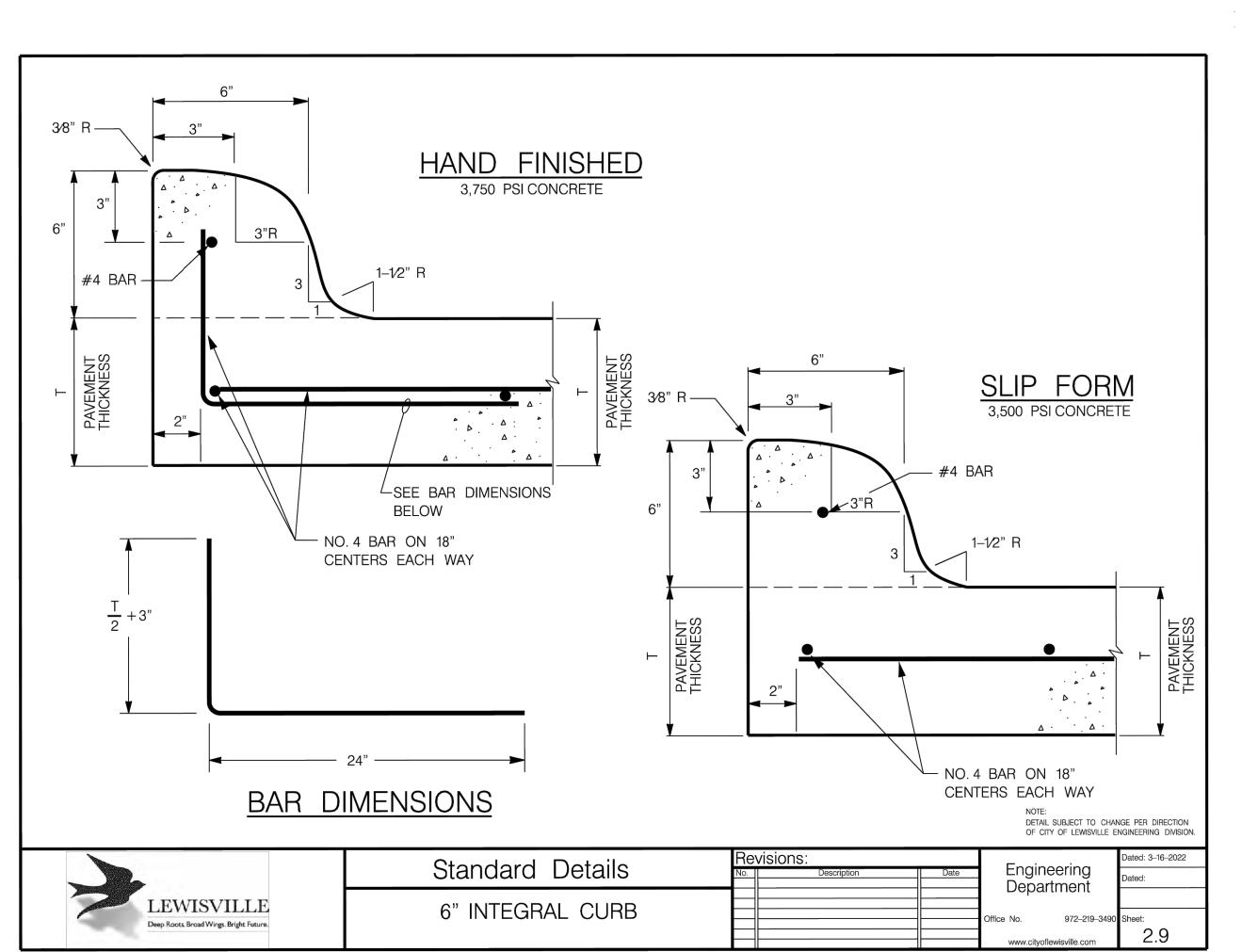
CITY OF LEWISVILLE OLD TOWN EWISVILLE GATEWAY

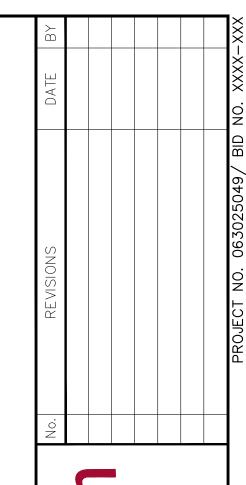
**Block Lettering** 



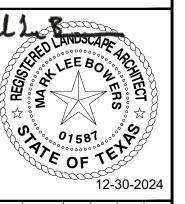








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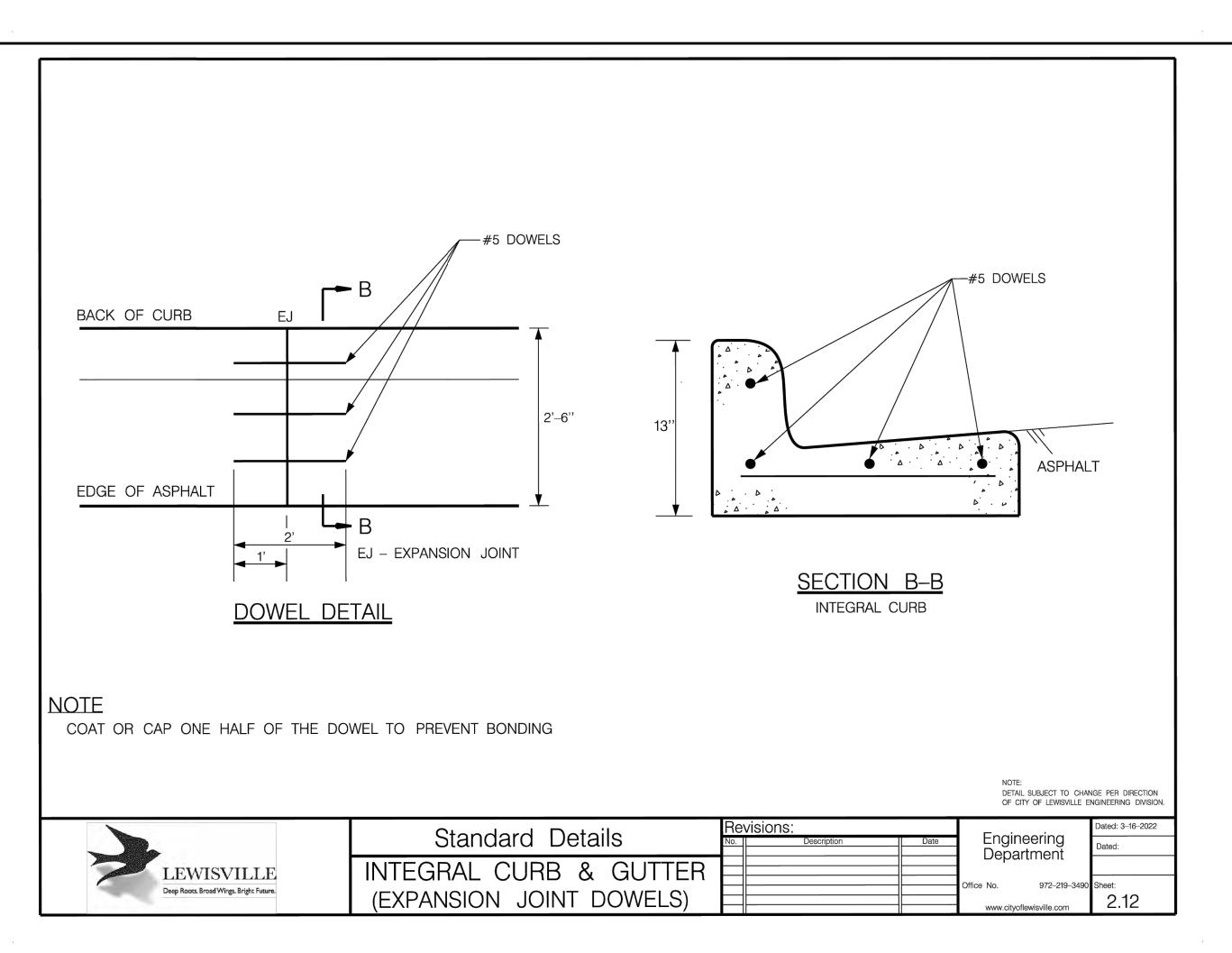


DATE
12/30/2024
SCALE AS SHOWN
DESIGNED BY IM
CHECKED BY MB

CITY OF LEWISVILL OLD TOWN LEWISVILLE GATEW

> CITY STANDARD PAVING DETAILS

SHEET NUMBER



#### CONCRETE PAVING GENERAL NOTES

- A. PLACE ALL CURBS INTEGRAL WITH PAVEMENT UNLESS OTHERWISE APPROVED BY THE CITY. B. CURBS TO MEET SAME COMPRESSIVE STRENGTH AS SPECIFIED FOR PAVEMENT.
- D. REINFORCING BARS TO BE SUPPORTED BY CHAIRS OR OTHER DEVICES APPROVED BY THE CITY. E. DO NOT USE FLY ASH IN CONCRETE PAVEMENT.
- 2. SUBGRADE (MINIMUM REQUIREMENTS UNLESS APPROVED BY CITY ENGINEER). SUBGRADE UNDER ALL PAVEMENT TO BE INITIALLY MIXED WITH 8-INCH THICK AND REMIXED WITH 6-INCH THICK AND STABILIZED WITH 6% MINIMUM BY WEIGHT OF HYDRATED LIME (GENERALLY +/- 40 POUNDS PER SQUARE YARD). AND COMPACTED TO A DENSITY NOT LESS THAN 95% STANDARD PROCTOR DENSITY. ALTERNATIVE SUBGRADES SUPPORTED BY LABORATORY TESTS MAY BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
- 3. HAND POURED CONCRETE TO BE 3,750 PSI AT 28 DAYS

| TYPE OF CONCRETE 1       | MINIMUM<br>CEMENTOUS<br>(LB/CY)                   | 7 DAY<br>COMPRESSIVE<br>STRENGTH<br>(PSI) | 28 DAY<br>COMPRESSIVE<br>STRENGTH<br>(PSI) <sub>2</sub> | MINIMUM<br>WATER/<br>CEMENTITIOUS<br>RATIO | COURSE<br>AGGREGATE<br>MAXIMUM<br>SIZE <sub>3</sub> |  |
|--------------------------|---|---|---|--|---|--|
| SIDEWALK <sub>4</sub>    | 470   | 1,950                                     | 3,000   | 0.58                                       | 1 1⁄2"  |  |
| STREET<br>(MACHINE POUR) | 517   | 2,350                                     | 3,500   | 0.53                                       | 1 1⁄2"  |  |
| STREET<br>(HAND POUR)    | 564   | 2,600                                     | 3,750   | 0.49                                       | 1 1⁄2"  |  |
|                          | AS DIRECTED BY THE OWNER OR AS SHOWN ON THE PLANS |   |   |  |   |  |
| HES <sub>5</sub>         | 752   | 4,200 <sub>6</sub>                        | 6,500   | 0.40                                       | 1 1⁄2"  |  |

1. ALL EXPOSED HORIZONTAL CONCRETE TO HAVE ENTRAINED AIR.
2. MINIMUM STRENGTH REQUIRED BY OWNER.
3. SMALLER NOMINAL MAXIMUM SIZE AGREGATE MAY BE USED IF STRENGTH REQUIREMENT IS SATISFIED.
4. SIDEWALKS, SEPARATE CURB AND GUTTER, AND 4-INCH MEDIAN PAVEMENT.
5. HIGH EARLY STRENGTH CONCRETE, COMPRESSIVE STRENGTH AT 3 DAYS

| CONCRETE USE   | AVG. SLUMP (IN)  | MAX. SLUMP (IN) |
|--|--|-----------------|
| SLIP FORM PAVING   | 3  | 4               |
| SIDEWALK, SEPARATE CURB AND GUTTER, AND OTHER MISCELLANEOUS CONCRETE | WALK, SEPARATE CURB AND GUTTER, AND AS SPECIFIED  R MISCELLANEOUS CONCRETE |                 |

- 4. SOILS WITH A P.I. OF 20 OR LESS TO BE STABILIZED WITH A CEMENT SLURRY. THE APPLICATION RATE TO BE DETERMINED BY ENGINEER AND APPROVED BY THE CITY ENGINEER.
- 5. SOILS WITH A P.I. GREATER THAN 20 TO BE STABILIZED WITH LIME SLURRY. THE APPLICATION RATE TO BE DETERMINED BY ENGINEER AND APPROVED BY THE CITY ENGINEER.
- 6. ALL SOILS MUST BE TESTED BY A QUALIFIED TESTING LABORATORY TO DETERMINE THE SOLUBLE SULFATE LEVELS IN THE SOIL BEFORE APPLYING LIME OR CEMENT STABILIZATION. SOILS WITH ELEVATED SOLUBLE SULFATE CONTENT ARE NOT SUITABLE FOR LIME OR CEMENT TREATMENT BECAUSE OF INCREASED RISK OF SULFATE-INDUCED HEAVE.

| SOLUBLE<br>SULFATE           | SUBGRADE TREATMENT  |
|------------------------------|---|
| <3,000 PPM                   | SUBGRADE COMPATIBLE WITH LIME OR<br>CEMENT TREATMENT (SEE NOTE 4 & 5)   |
| 3,000 PPM<br>TO<br>8,000 PPM | SUBGRADE IDENTIFIED AS COMPATIBLE WITH LIME OR CEMENT TREATMENT. DESIGN ENGINEER TO CONSULT WITH CITY FOR APPROVAL TO USE LIME TREATED SUBGRADE. REFER TO TXDOT "GUIDELINES FOR MODIFICATION AND STABILIZATION OF SOILS AND BASE FOR USE IN PAVEMENT STRUCTURES" AND "GUIDELINES FOR TREATMENT OF SULFATERICH SOILS AND BASES IN PAVEMENT STRUCTURES" FOR MORE INFORMATION. |
| >8,000 PPM                   | SUBGRADE IS INCOMPATIBLE WITH LIME OR<br>CEMENT TREATMENT. USE 4-INCH TYPE B HMAC OR<br>8-INCH FLEXIBLE BASE CRUSHED STONE<br>(TXDOT ITEM 247 GRADE 1). CRUSHED CONCRETE IS<br>NOT ACCEPTABLE   |

DETAIL SUBJECT TO CHANGE PER DIRECTION

|   | Ctandard Dataila    | Revisions:      |      | •                         | Dated: 07/25/2022 |
|---|---------------------|-----------------|------|---------------------------|-------------------|
|   | Standard Details    | No. Description | Date | Engineering<br>Department | Dated:            |
| LEWISVILLE                              | REINFORCED CONCRETE |                 |      | Department                |                   |
| Deep Roots. Broad Wings. Bright Future. | GENERAL NOTES       |                 |      | Office No. 972–219–3490   |                   |
|   | GENERAL NOTES       |                 |      | www.cityoflewisville.com  | 2.30              |

A COMPACTION BY FLOODING OR JETTING IS NOT PERMITTED

95% STANDARD PROCTOR DENSITY, HAND OPERATED MECHANICAL TAMPERS MAY BE USED

C FOR PIPE EMBEDMENT, SEE STANDARD DETAILS 7.1 AND 7.2 FOR SEWER,

STANDARD DETAIL 8.1 FOR WATER, AND STANDARD DETAIL 9.1 FOR STORM.

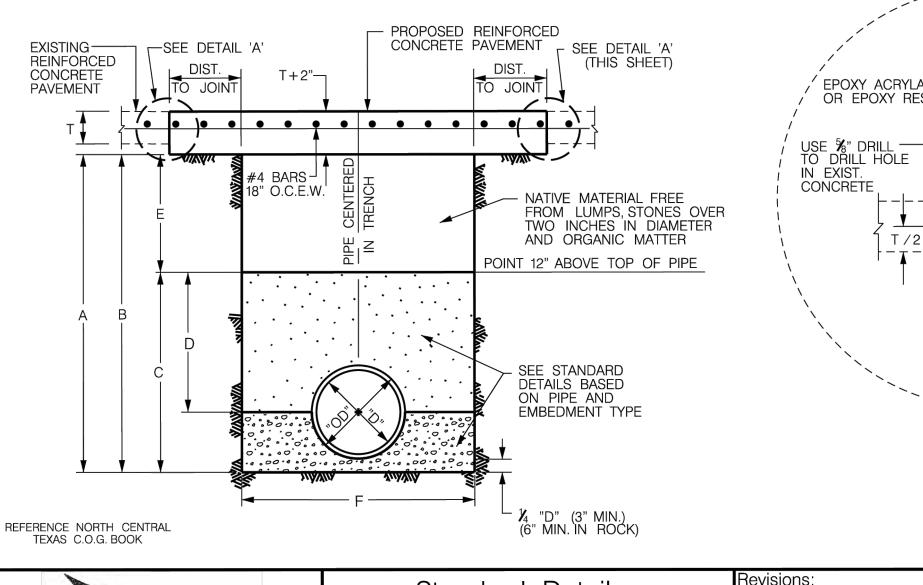
D EMBEDMENT BACKFILL

E TRENCH BACKFILL

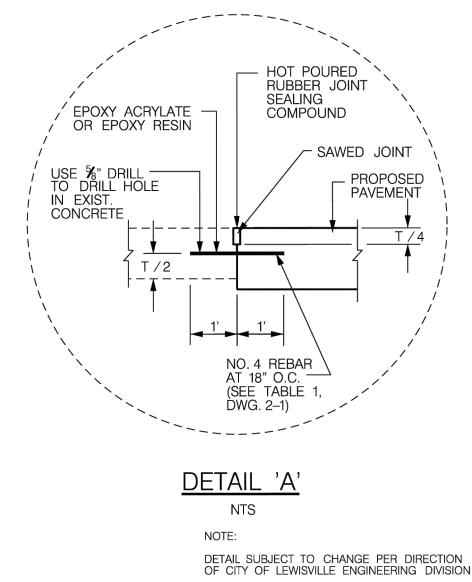
F OD + 16" MINUMUM

MAX. TRENCH WIDTH = OD + 24" (D=42" OR LESS) = OD + 48" (D OVER 42")

T THICKNESS OF EXISTING CONCRETE PAVEMENT



1. PLACE A COMMERCIALLY-AVAILABLE MAGNETIC TAPE ABOVE ALL WATER AND SEWER MAINS AS SHOWN IN STANDARD DETAILS 7.1, 7.2 (SEWER) AND 8.1 (WATER)



Engineering Department

972-219-3490

TESTING REQUIREMENTS (PER NCTCOG)

LEWISVILLE

1. ALL TESTING ASSOCIATED WITH PUBLIC PAVING MUST BE CONDUCTED BY A CERTIFIED LABORATORY. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF ALL TESTING PERFORMED UNLESS OTHERWISE SPECIFIED.

Standard Details

TYPICAL CONCRETE PAVEMENT

REPLACEMENT DETAIL

a. SULFATE TESTING TO CONFORM WITH ASTM C1580-20 b. LIME SERIES TESTING TO CONFORM WITH ASTM D6276 AND NCTCOG SECTION 301.2.1.3

2. ALL TESTING ASSOCIATED WITH PRIVATE PAVING MUST BE CONDUCTED BY A CERTIFIED LABORATORY. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF ALL TESTING PERFORMED.

3. EMBANKMENT MATERIALS MUST BE TESTED AND CERTIFIED FOR DENSITY, MOISTURE, GRADATIONS, AND SUITABILITY AS SET FORTH IN THE NCTCOG SPECIFICATIONS FOLLOWING STANDARD TESTING PROCEDURES.

4. PERFORM DENSITY TESTING ON EACH LIFT OR PROPERLY PLACED AND COMPACTED MATERIAL. MINIMUM REQUIREMENTS FOR DENSITY IS 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698.

5. MOISTURE CONTENT OF THE MATERIAL TO BE FROM OPTIMUM MOISTURE CONTENT UP TO FOUR (4) % ABOVE THE OPTIMUM MOISURE CONTENT AND NOT LESS THAN 2% UNDER OPTIMUM.

6. THE MINIMUM FREQUENCY OF DENSITY TESTING TO BE 3 (THREE) TESTS PER ONE (1) FOOT OF LOOSE LIFT PER 2,000 (TWO THOUSAND) SQUARE YARDS OF SURFACE AREA. IN ACCORDANCE WITH COG SECTION 203.7.2.

7. RETESTING OF ALL MATERIALS TO BE PERFORMED AT ORIGINAL TEST LOCATION AND AT THE CONTRACTOR'S EXPENSE. 8. GRADATIONS AFTER FINAL MIXING TO BE AS FOLLOWS:

MINIMUM PASSING 1-INCH LABORATORY SIEVE: 100% MINIMUM PASSING NO. 4 LABORATORY SIEVE: 60% TESTS TO BE TAKEN EVERY 1,000 SQUARE YARDS.

9. UPON COMPLETING WORK AND BEFORE FINAL ACCEPTANCE AND PAYMENT, PAVEMENT THICKNESS TESTS MAY BE CONDUCTED AT THE REQUEST OF THE CONSTRUCTION INSPECTOR. IF REQUIRED, THE NUMBER OF CORES FOR THICKNESS VERIFICATION WILL BE BASED ON 3 (THREE) CORES FOR EVERY 2,000 (TWO THOUSAND) SQUARE YARDS OF PAVEMENT SURFACE AREA.

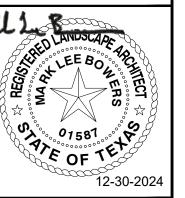
10. DURING WORK PROGRESS, THE TESTING LABORATORY WILL CAST TEST CYLINDERS TO MAINTAIN A CHECK ON COMPRESSIVE STRENGTH ON THE CONCRÉTE PLACED. SAMPLING AND MOLDING OF TEST SPECIMENS MUST MEET APPLICABLE ASTM TESTING GUIDELINES. CONCRETE PAVEMENT TESTING REQUIRES 3 (THREE) INDIVIDUAL STRENGTH SAMPLES PER TEST, AT A FREQUENCY OF 1 (ONE) TEST PER 100 (ONE HUNDRED) CUBIC YARDS (OR FRACTION THEREOF) OR CONCRETE PLACED PER DAY. DELIVER A COPY OF THE TEST RESULTS TO THE ENGINEERING DEPARTMENT AND THE CONSTRUCTION INSPECTOR THAT INCLUDES THE DATE, AND TIME OF SAMPLING, EXACT PLACEMENT OF CONCRETE, TRUCK TICKET NUMBER, SLUMP, AIR CONTENT, AND CONCRETE TEMPERÂTURE.

11. ANY DEFICIENCIES IN CONCRETE THICKNESS OR STRENGTH TO BE HANDLED IN ACCORDANCE WITH NCTCOG ITEM 303.8.

DETAIL SUBJECT TO CHANGE PER DIRECTION OF CITY OF LEWISVILLE ENGINEERING DIVISION

|   | Standard Details                            | Revision No. | Description | Date | Engineering   | Dated: 9-17-2022<br>Dated: |
|---|---|--------------|-------------|------|---|----------------------------|
| LEWISVILLE Deep Roots. BroadWings. Bright Future. | REINFORCED CONCRETE<br>TESTING REQUIREMENTS |              |             |      | Department  Office No. 972-219-3490  www.cityoflewisville.com | Sheet: 2.31                |

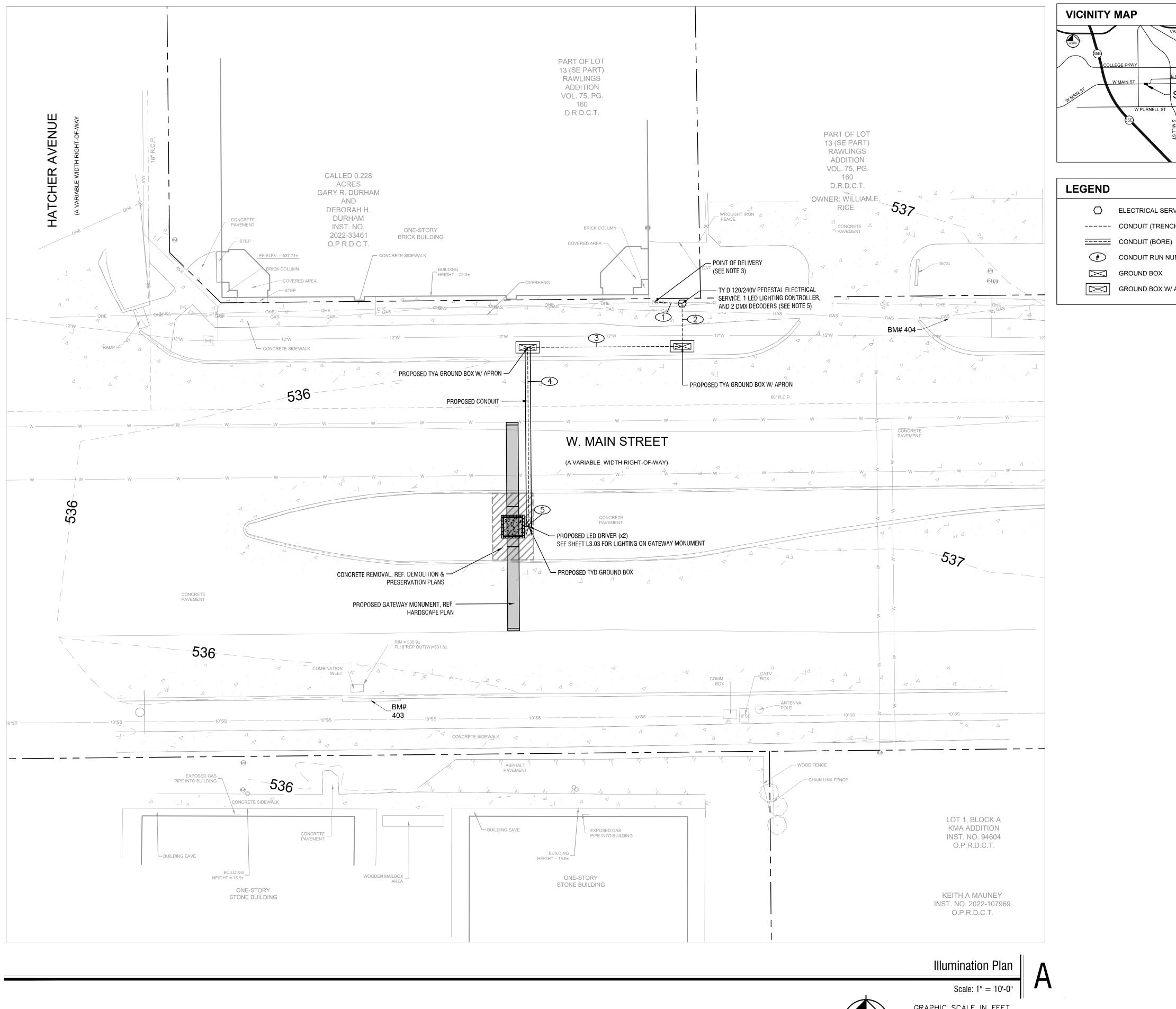
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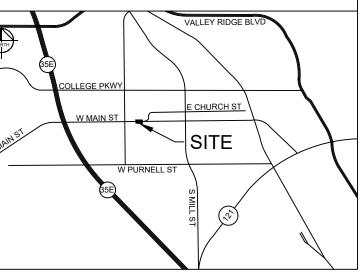
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> AIL AND, DET, SITY ST,

SHEET NUMBER



N.T.S.



#### **LEGEND**

SCALE 1" = 10'-0" AT 22 X 34 SCALE 1" = 20'-0" AT 11 X 17

ELECTRICAL SERVICE ---- CONDUIT (TRENCH)

CONDUIT RUN NUMBER

**GROUND BOX** 

GROUND BOX W/ APRON

#### **BENCHMARK LIST**

CITY BENCHMARK NO. 11 - 3 1/4" ALUMINUM DISK MONUMENT STAMPED #11, LOCATED APPROXIMATELY 191' EAST OF THE N. CHARLES STREET & W. CHURCH STREET INTERSECTION, APPROXIMATELY 3.3' NORTHEAST OF ELECTRIC VAULT & 3.4' NORTHEAST OF A BUS SIGN. ELEV = 525.15

#### BM #403

" 🖂 " CUT SET ON THE SOUTH SIDE OF A COMBINATION INLET ON THE SOUTH SIDE OF W. MAIN STREET ±65' EAST OF THE INTERSECTION OF W. MAIN STREET AND HATCHER AVEUNE, ±76' WEST OF AN ANTENNA POLE AND ±50' EAST OF A "NO PARKING" SIGN.ELEV = 536.38

"X" CUT SET ON THE SOUTH SIDE OF A CONCRETE SIDEWALK ON THE NORTH SIDE OF W. MAIN STREET ±175' EAST OF THE INTERSECTION OF W. MAIN STREET AND HATCHER AVEUNE, ±57' SOUTHEAST OF A POWERPOLE WITH TRANSFORMER AND ±10' SOUTHEAST OF A "KUZMICH LAW FIRM" SIGN. ELEV = 536.77

- LIGHTING CONDUIT SHOWN IS DIAGRAMMATIC ONLY. THE
- THE TYPE AND LOCATION OF UTILITIES IS NOT **GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE.** CONTRACTOR SHALL DETERMINE THE FINAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION
- 3. CONTRACTOR TO COORDINATE WITH TNMP FOR **ELECTRICAL SERVICE CONNECTION.**
- INTERIOR TO THE GATEWAY MONUMENT.
- 5. PEDESTAL ELECTRICAL SERVICE CABINET SHALL BE LARGE ENOUGH TO HOUSE ELECTRICAL SERVICE COMPONENTS, 1 LIGHTING CONTROLLER

#### **NOTES**

BEST FINAL CONDUIT ROUTING SHALL BE DETERMINED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE INFORMATION SHOWN ON THESE PLANS REGARDING

4. REFER TO ILLUMINATION DETAILS FOR CONDUIT ROUTING

(5.19"x7.08"x1.38"), AND 2 DMX DECODERS (7"x1.77"x0.75").



SCAL DESIO DRAV

CITY OF LEWISVILLE OLD TOWN LEWISVILLE GATEWAY

ILLUMINATION PLAN

Know what's below.

Call before you dig.



SHEET NUMBER L3.01

| Corridor<br>Name | Elec.<br>Service | Sheet<br>No. | Electrical Service Description<br>(see ED (5) - 14) | Service<br>Conduit | Service<br>Conductors | Safety<br>Switch | Main<br>Ckt. Bkr. | Lighting<br>Contactor<br>Amps | Panelbd/<br>Loadcenter | Circuit<br>No.   | Branch<br>Ckt. Bkr. | Branch<br>Circuit<br>Amps | KVA<br>Load |
|------------------|------------------|--------------|---|--------------------|-----------------------|------------------|-------------------|-------------------------------|------------------------|------------------|---------------------|---------------------------|-------------|
| WOODSBORO        | ES01             | L3.01        | ELEC SERV TY D (120/240)100(NS)AL(E)PS(U)           | 2"                 | 3/#2                  | N/A              | 2P/100            | 4P/30                         | 100                    | A-COLUMN LEDs    | 2P/20               | 2                         | 6.3         |
| WAY              |                  |              |   |                    |                       |                  |                   |                               |                        | B-NEON 1         | 1P/20               | 16                        |             |
|                  |                  |              |   |                    |                       |                  |                   |                               |                        | C-NEON 2         | 1P/20               | 16                        |             |
|                  |                  |              |   |                    |                       |                  |                   |                               |                        | D-NEON 3         | 1P/20               | 16                        |             |
|                  |                  |              |   |                    |                       |                  |                   |                               |                        | E-LED CONTROLLER | 1P/20               | 0.2                       |             |

|           |               |         |                        | ES01 -                 | SUMMARY O              | F COND | JIT AND CO                | NDUCTO    | RS                      |       |                           |       |             |
|-----------|---------------|---------|------------------------|------------------------|------------------------|--------|---------------------------|-----------|-------------------------|-------|---------------------------|-------|-------------|
|           |               |         |                        | CONDUIT                |                        | COND   | UCTORS                    |           | CONDU                   | CTORS |                           | CONDU | JCTORS      |
| RUN<br>NO | RUN<br>LENGTH | CIRCUIT | 2 IN.<br>PVC<br>SCH 40 | 2 IN.<br>PVC<br>SCH 40 | 1 IN.<br>PVC<br>SCH 40 | (NC    | CONDR<br>D. 10)<br>JLATED | <b>(N</b> | CONDR<br>IO. 6)<br>BARE | 1)    | CONDR<br>NO. 6)<br>JLATED |       | VER FEED ** |
|           |               |         | TRENCH                 | BORE                   | TRENCH                 | QA     | LENGTH                    | QA        | LENGTH                  | QA    | LENGTH                    | QA    | LENGTH      |
| 1         | 10            | -       | 10                     |                        |                        |        |                           |           | BY T                    | VMP*  | •                         |       | •           |
| 2         | 10            | A**     | 10                     |                        |                        | 2      | 20                        |           |                         |       |                           |       |             |
| 2         | 10            | B,C,D   | 10                     |                        |                        |        |                           | 1         | 15                      | 6     | 95                        |       |             |
| 3         | 30            | A**     | 30                     |                        |                        | 2      | 60                        |           |                         |       |                           |       |             |
| 3         | 30            | B,C,D   | 30                     |                        |                        |        |                           | 1         | 35                      | 6     | 215                       |       |             |
| 4         | 40            | A**     |                        | 40                     |                        | 2      | 80                        |           |                         |       |                           |       |             |
| 4         | 40            | B,C,D   |                        | 40                     |                        |        |                           | 1         | 45                      | 6     | 275                       |       |             |
|           | 30            | А       |                        |                        | 30                     |        |                           |           |                         |       |                           | 1     | 30          |
| 5         | 30            | Α       |                        |                        | 30                     |        |                           |           |                         |       |                           | 1     | 30          |
| S<br>**** | 30            | Α       |                        |                        | 30                     |        |                           |           |                         |       |                           | 1     | 30          |
|           | 30            | А       |                        |                        | 30                     |        |                           |           |                         |       |                           | 1     | 30          |
|           | 35            | B,C,D   | 35                     |                        | 35                     |        |                           | 1         | 40                      | 6     | 245                       |       |             |
|           | ,             | TOTALS  | 85                     | 40                     | 155                    |        | 160                       |           | 135                     |       | 830                       |       | 120         |

THERE WILL BE NO EXTRA COMPENSATION IF CONTRACTOR CHOOSES TO BORE CONDUIT RATHER THAN TRENCH.

LIGHTING CONDUIT SHOWN IN THE PLANS IS SCHEMATIC. CONTRACTOR SHALL VERIFY ULTIMATE CONDUIT LOCATION.

\*CONTRACTOR SHALL COORDINATE WITH TNMP REGARDING UNDERGROUND SERVICE FEED FROM TRANSFORMER TO PEDESTAL ELECTRICAL SERVICE.

TNMP TO INSPECT AND APPROVE CONDUIT PRIOR TO BEING COVERED BY CONTRACTOR.

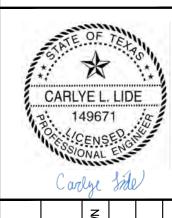
\*\*CIRCUIT A CABLE IN CONDUIT RUNS 2 - 4 ARE TO POWER CORE LED DRIVER LOCATED INSIDE THE TY D GROUND BOX.

\*\*\*POWER FEED FROM THE DRIVER TO THE CORE LNT-65 AND LFO-60 LEDS SUBSIDIARY TO THE FIXTURE.

\*\*\*\*CONDUIT AND CONDUCTORS SHOWN IN RUN 5 REPRESENT THE LENGTH NEEDED FROM THE GROUNDBOX TO THE BASE OF THE COLUMN AND INSIDE OF THE COLUMN.

No. REVISIONS DATE BY
PROJECT NO. 063025049/ BID NO. XXXX-XXX



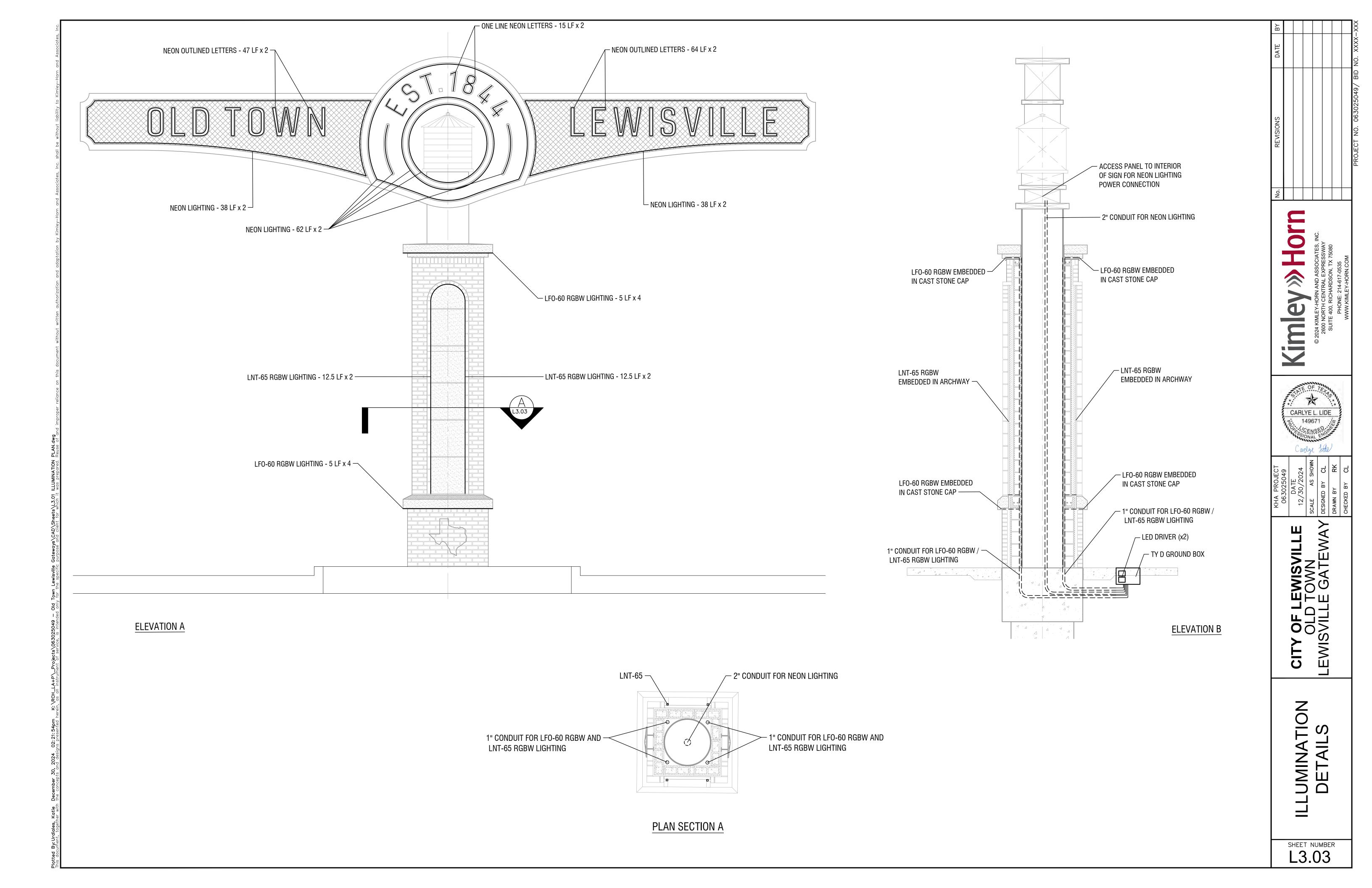


DATE
12/30/2024
SCALE AS SHOWN ASPRODESIGNED BY CL

CITY OF LEWISVILLE OLD TOWN LEWISVILLE GATEWAY

> ILLUMINATION QUANTITIES

SHEET NUMBER L3.02



LNT-65 RGBW is a high performance flexible LED fixture designed as a neon replacement. Suitable for indoor and outdoor applications, the LNT-65 RGBW can bend around contours or tight radiuses without being damaged. It allows for easy installation with its factory sealed terminators and self-locking male and female barrel connectors.

#### **SPECIFICATIONS**

CRI

DIMMING

CUTTABLE

CERTIFICATIONS

INPUT VOLTAGE 24V DC Constant Voltage POWER CONSUMPTION 4.5W per Ft. LUMEN OUTPUT 190 Lm/Ft. LED CHIP NICHIA

COLOR TEMPERATURE RGB+27K/RGB+40K Through RGB controller MAXIMUM RUN LENGTH Every 83.33mm (3.28 in)

**STORAGE TEMPERATURE** -40°F (-40°C) to 176°F (80°C) **OPERATING TEMPERATURE** -4°F (-20°C) to 113°F (45°C) **BEAM ANGLE** HUMIDITY 0-95% Non Condensing IP RATING IP67/ IP68

**LUMEN MAINTENANCE** 50,000 Hrs.



Quote/Ref#\_\_

**FEATURES** 

High color consistency and smooth illumination

Multiple CCT options available Bottom, Side and End Feed options · UL-676 Pool Submersible (IP68 model) Waterproof/ Underwater Submersible



|        | <br> -<br>  F | VB                                   | RGBW30K                                      | 24                  | 45 (x4)   | EF   | HW50 (X2)  |
|--------|---------------|--------------------------------------|--|---------------------|---|--|--|
| MODEL  | LENS          | SURFACE                              | COLOR TEMP                                   | VOLT                | LENGTH  | POWER FEED   | FEED LENGTH  |
| LNT-65 | Flat          | HB Horizontal Bend  VB Vertical Bend | RGBW27K<br>RGB+2700K<br>RGBW40K<br>RGB+4000K | <b>24</b><br>24V DC | Please refer to page 5-6 for exact lengths with corresponding ordering codes. | BF Bottom Feed  SFL Side Feed Left  SFR Side Feed Right  EF End Feed | HW3 3 Ft. Power Feed HW10 10 Ft. Power Feed HW15 15 Ft. Power Feed HW30 30 Ft. Power Feed HW50 50 Ft. Power Feed |

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#### **LNT**-65 RGBW

COMPATIBLE ACCESSORIES

LNT65-BKT-ADJ ADJUSTABLE BRACKET

**POWER FEED** 

BOTTOM FEED

SIDE FEED LEFT

SIDE FEED RIGHT

END FEED

LNT65-EC END CAP

DMX DECODERS

RGB-DMX-4C-RJ45

4-CHANNEL DMX DECODER

OUTPUT CHANNELS 4

DIMENSIONS

RGB-DMX-5C-XLR

INPUT VOLTAGE 12V-24V DC

OUTPUT WATTAGE 60W(12V), 120W(24V)

LxWxH (7"x1.77"x0.75")

OUTPUT CURRENT 5A X 4CH

SFL

SFR

4.5W IP67/68 COLOR CHANGING + WHITE NEON SERIES

**Ø 10mm** (0.39 in)

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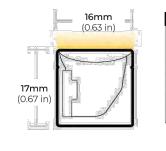
CORE ARCHITECTURAL LIGHTING

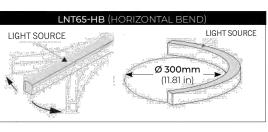
(0.73 in)

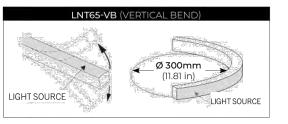
**LNT**-65 RGBW

4.5W IP67/68 COLOR CHANGING + WHITE NEON SERIES

#### **DIMENSIONS**

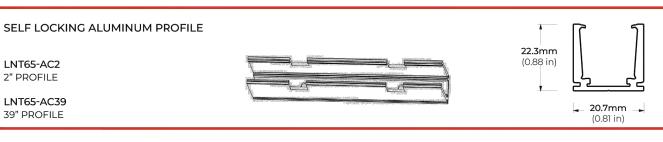


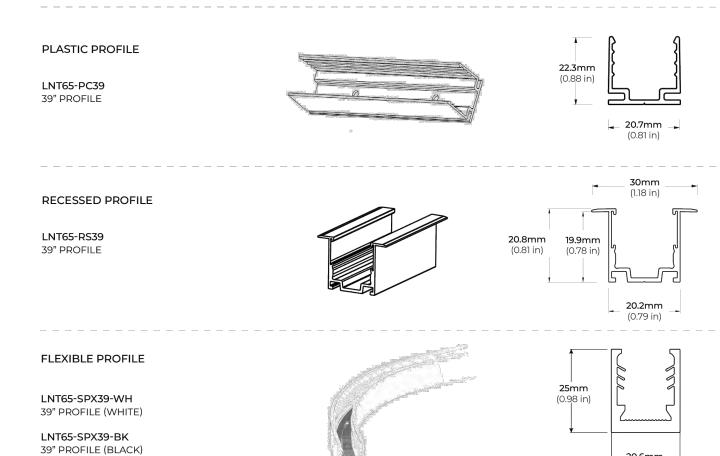




CORE

#### **COMPATIBLE ACCESSORIES**





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# **LNT**-65 RGBW

CORE LIGHTING

4.5W IP67/68 COLOR CHANGING + WHITE NEON SERIES

#### DMX CONTROLLERS

MULTI-FUNCTION RGBW WALL CONTROLLER

RGB-SCW4

CONNECTIONS

MEMORY

**RGB-SDE3** 

CONNECTIONS

WORKING TEMP

DIMENSIONS

MEMORY

WiFi DMX WALL CONTROLLER

**INPUT VOLTAGE** 5 - 10V DC, 06A

OUTPUT SIGNAL DMX512 (x2)

COLOR OPTIONS Black/ White

**WORKING TEMP** -10°C ~ 45°C

WiFi DMX WALL CONTROLLER

INPUT VOLTAGE 6V DC, 0.6A OUTPUT SIGNAL DMX512 (x2)

COLOR OPTIONS Black/ White

**DIMENSIONS** LxWxH (5.75"x4.17"x0.43")

**PROGRAMMABILITY** PC/ MAC/ Tablet/ Smartphone

MicroSD Card

LxWxH (5.75"x4.17"x0.43")

-20°C ~ 40°C

USB/8dry contact ports/Open drain output (for relay)

USB/ Ethernet/ RS232/ CLock/ 8dry contact ports/5V output relay

Built-In Flash

PROGRAMMABILITY PC/MAC

INPUT VOLTAGE 5V DC, 1A OUTPUT SIGNAL RF 2.4GHZ + DMX512 CONTROL 4 ZONES COLOR OPTIONS Black/ White **WORKING TEMP** -20°C ~ 40°C LxWxH (5.19"x7.08"x1.38") DIMENSIONS



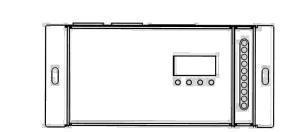
1 2 3 4 <u>5</u> 6

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> 5-CHANNEL DMX DECODER INPUT VOLTAGE 12V-24V DC OUTPUT CURRENT 8A X 5CH OUTPUT WATTAGE 5 x (96W ~ 192W) OUTPUT CHANNELS 5 DIMENSIONS LxWxH (6.45"x2.87"x1.5")

**LNT**-65 RGBW

4.5W IP67/68 COLOR CHANGING + WHITE NEON SERIES



#### **LNT**-65 RGBW

LIGHTING 4.5W IP67/68 COLOR CHANGING + WHITE NEON SERIES

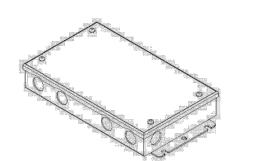
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#### NON-DIMMING DRIVERS (COMPATIBLE WITH ALL SYSTEMS)

**PSHK SERIES** 

NON-DIMMING CONSTANT VOLTAGE WITH JUNCTION BOX **PSHK-30W-24V CLASS 2** 6.5" X 3.6" X 1.02" PSHK-60W-24V CLASS 2 7.4" X 3.62" X 1.02" **PSHK-96W-24V CLASS 2** 8.66" X 3.66" X 1.61" PSHK-150W-24V 10.24" X 4.06" X 1.81" PSHK-200W-24V 10.24" X 4.06" X 1.81" PSHK-288W-24V CLASS 2 11.85" X 4.25" X 1.82"

PSHK-300W-24V



CORE



CIT

SHEET NUMBER



5.8W INDOOR/OUTDOOR COLOR CHANGING LED STRIP

Quote/Ref#\_

**LFO-60 RGBW** is an indoor and outdoor flexible LED Strip that features the smallest, most discreet optical linear design. Easy to mount and install to nearly any surface and easily adaptable to almost any indoor or outdoor application. Its miniature optics are ideal for grazing, wall washing, cove and other architectural or accent lighting applications. Its silicone encapsulation makes it durable to withstand harsh elements. Available in different color temperatures and field cuttable.



**SPECIFICATIONS** 

INPUT VOLTAGE POWER CONSUMPTION 5.8W/ Ft.

IP67 Outdoor/ Wet Rated

LUMEN OUTPUT 320 Lm/ Ft. NO. OF LEDS 14 LEDs per Ft.

30°/45°/60°/30° x 50°/ Asymetric **BEAM ANGLE** COLOR TEMPERATURE RGB27K/RGB30K/RGB40K Through RGBW Controller DIMMING/CONTROL MAXIMUM RUN LENGTH FIELD CUTTABLE Every 6.0 in (152.4mm)

LUMEN MAINTENANCE **UL** Listed CERTIFICATIONS

LFO-60 RGBW

MULTI-FUNCTION RGBW WALL CONTROLLER

OUTPUT SIGNAL RF 2.4GHZ + DMX512

4 ZONES

LxWxH (5.19"x7.08"x1.38")

USB/8dry contact ports/Open

contact ports/5V output relay

drain output (for relay)

Built-In Flash

INPUT VOLTAGE 5V DC, 1A

COLOR OPTIONS Black/ White

WiFi DMX WALL CONTROLLER

**INPUT VOLTAGE** 5 - 10V DC, 06A

OUTPUT SIGNAL DMX512 (x2)

COLOR OPTIONS Black/ White

WORKING TEMP -10°C ~ 45°C

WiFi DMX WALL CONTROLLER

**INPUT VOLTAGE** 6V DC, 0.6A

OUTPUT SIGNAL DMX512 (x2)

COLOR OPTIONS Black/ White

**WORKING TEMP** -20°C ~ 40°C

**DIMENSIONS** LxWxH (5.75"x4.17"x0.43")

**DIMENSIONS** LxWxH (5.75"x4.17"x0.43")

PROGRAMMABILITY PC/ MAC/ Tablet/ Smartphone

CONNECTION USB/ Ethernet/ RS232/ CLock/ 8dry

MicroSD Card

PROGRAMMABILITY PC/MAC

**WORKING TEMP** -20°C ~ 40°C

DMX CONTROLLERS

RGB CT600

CONTROL

RGB-SCW4

CONNECTIONS

MEMORY

**RGB-SDE3** 

MEMORY

5.8W INDOOR/OUTDOOR COLOR CHANGING LED STRIP

IP RATING

OPERATING TEMPERATURE -22°F (-30°C) to +122°F (+50°C)



Dimmable

UL Listed

5.8W per Ft 320 Lm/Ft. Flexible, silicone encapsulated Field Cuttable\*

\* Indoor installation only

|        |                              |  | an agreem summer more    | Tilks PIOIEB        |
|--------|------------------------------|--|--------------------------|---------------------|
|        | RGB30K                       | 5 Ft. (x8)   | 3050                     | 24                  |
| MODEL  | COLOR TEMP                   | LENGTH   | OPTICS                   | VOLTAGE             |
| LFO-60 | <b>RGB27K</b><br>2700K + RGB | <sup>1</sup> <b>XX</b><br>per Ft.                    | <b>30</b> 30°            | <b>24</b><br>24V DC |
|        | <b>RGB30K</b><br>3000K+RGB   |  | <b>45</b>                |                     |
|        | <b>RGB40K</b><br>4000K+RGB   | <br>   | <b>60</b><br>60°         |                     |
|        |                              | ;<br>  | <b>3050</b><br>30° x 50° |                     |
|        |                              | <br>   | ASY<br>Asymmetric        |                     |
|        |                              | 1<br>1<br>1  | <br>                     |                     |
|        |                              | *1 = Custom<br>length per FT.<br>(cuttable every 6") | 1<br>                    |                     |

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LFO-60 RGBW LEDs to share

1 DMX Controller with the

LNT-65 RGBW fixtures

#### LFO-60 RGBW

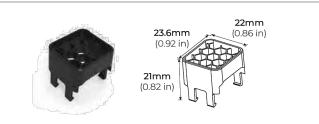
5.8W INDOOR/ OUTDOOR COLOR CHANGING LED STRIP

**DIMENSIONS** 

Cuttable every 152.4mm (6.0 in)

**ACCESSORIES** 

LFO-60-SDLV SYMMETRICAL LOUVER \* Sold Separately per Ft.

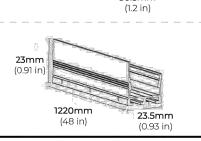


LFO-60-MB MOUNTING BRACKET 0.82" X 0.79" X 0.3"



LFO-60-AC48 STANDARD ALUMINUM PROFILE 1.2" X 0.84" X 48"

LFO-60-GS48 GLARE SHIELD ALUMINUM PROFILE 0.93" X 0.91" X 48"



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#### LFO-60 RGBW

LIGHTING

NON-DMX CONTROLLERS (CONTINUED)

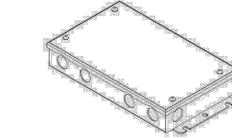
12-24V DC

**DIMENSIONS** LxWxH (6.9 x1.7 x 1.2")

NON-DIMMING DRIVERS (COMPATIBLE WITH ALL SYSTEMS)

PSHK SERIES NON-DIMMING CONSTANT VOLTAGE WITH JUNCTION BOX

PSHK-30W-24V CLASS 2 6.5" X 3.6" X 1.02" **PSHK-60W-24V CLASS 2** 7.4" X 3.62" X 1.02" PSHK-96W-24V CLASS 2 8.66" X 3.66" X 1.61" PSHK-150W-24V PSHK-200W-24V **PSHK-288W-24V CLASS 2** 11.85" X 4.25" X 1.82" PSHK-300W-24V

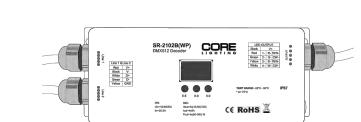


#### **LFO**-60 RGBW

5.8W INDOOR/OUTDOOR COLOR CHANGING LED STRIP

#### **DMX DECODERS**

RGB-DMX-4C-WP 4-CHANNEL RGB DMX DECODER OUTPUT VOLTAGE 12V-36V DC OUTPUT AMPS 5A per Channel OUTPUT CHANNELS 4 Channels **OUTPUT WATTAGE** 4 x (167W ~ 333W)



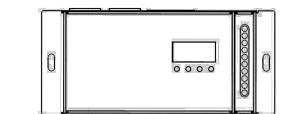
CORE

LIGHTING

RGB-DMX-4C-RJ45 4-CHANNEL DMX DECODER INPUT VOLTAGE 12V-24V DC OUTPUT CURRENT 8A X 4CH **OUTPUT WATTAGE** 4 x (96W ~ 288W) OUTPUT CHANNELS 4 DIMENSIONS LxWxH (7"x1.77"x0.75")

RGB-DMX-5C-XLR 5-CHANNEL DMX DECODER INPUT VOLTAGE

OUTPUT CURRENT 8A X 5CH **OUTPUT WATTAGE** 5 x (96W ~ 192W) **OUTPUT CHANNELS** 5 DIMENSIONS LxWxH (6.45"x2.87"x1.5")

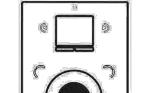


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SHEET NUMBER



1 2 3 4 <u>5</u> 6

LIGHTING

5.8W INDOOR/OUTDOOR COLOR CHANGING LED STRIP

BLUETOOTH TOUCH PANEL WALL CONTROLLER INPUT VOLTAGE

ZONES CONTROL MODE RGB | RGBW WIRELESS PROTOCOL Bluetooth 5.0 SIG Mesh **WORKING TEMP** -20°C ~ 55°C **DIMENSIONS** LxWxH (4.7"x3"x1.2")

\* Paired with RGB-CT800-RC (Sold Separately)

RGB-CT800-RC BLUETOOTH CONSTANT VOLTAGE LED RECEIVER

INPUT VOLTAGE 12V | 24V OUTPUT CURRENT 4Ax5CH / 5Ax4CH (20A Max) POWER CAPACITY 240W (12V) | 480W (24V) PROGRAMMABILITY iOS and Android **WORKING TEMP** -20°C ~ 55°C

\* Paired with RGB-CT840 (Sold Separately)

10.24" X 4.06" X 1.81" 10.24" X 4.06" X 1.81" 10.24" X 4.25" X 1.81"

150 W Carob Street, Compton, CA 90220 | www.corelightingusa.com | 888-737-9192

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#### GENERAL NOTES FOR ALL ELECTRICAL WORK 8. Provide PVC elbows in PVC conduit systems, unless otherwise shown on the plans. Use only a flat, high tensile strength polyester fiber pull tape for pulling conductors through the PVC conduit system. When galvanized steel RMC elbows are specifically called for in the plans and any portion of the RMC elbow is buried less than 18 in., ground the RMC elbow by means of a grounding bushing on a rigid metal extension. Grounding of the rigid metal elbow is not required if the entire RMC elbow is encased in a minimum of 2 in. of concrete. PVC extensions are allowed on these concrete encased rigid metal elbows. RMC or PVC elbows are subsidiary to various hid items. . The location of all conduits, junction boxes, ground boxes, and electrical services is diagrammatic and may be shifted to accommodate field conditions. . Provide new and unused materials. Ensure that all materials and installations comply with the applicable articles of the National Electrical Code (NEC), TXDOT standards and specifications, National Electrical Manufacturers Association (NEMA), and are listed by Underwriters Laboratories (UL) or a Nationally Recognized Testing Lab (NRTL). NRTLs such as Canadian Standard Association (CSA), Intertek Testing Services NA Inc., or FM Approvals LLC can be considered equivalent to UL. Where reference is made to NEMA listed devices, International Electrotechnical Commission (IEC) listed devices will not be considered an acceptable equal to a NEMA listed device. Acceptable devices may have both a NEMA and IEC PVC elbows are subsidiary to various bid items.

- 9. When required, provide High-Density Polyethylene (HDPE) conduit with factory installed internal conductors according to Item 622 "Duct Cable." At the Contractor's request and with approval by the Engineer, substitute HDPE conduit with no conductors for bored schedule 40 or schedule 80 PVC listing. Faulty fabrication or poor workmanship in any material, equipment, or installation is justification for rejection. Replace or reinstall rejected material or equipment at no conduit bid under Item 618. Ensure bored HDPE substituted for PVC is schedule 40 and of the same size PVC called for in the plans. Ensure the substituted HDPE meets the requirements of Item 622, except that the conduit is supplied without factory-installed conductors. Make the transition of the HDPE conduit to PVC (or RMC elbow when required) at the bore pit. Provide conduit of the size additional cost to the Department. 3. Miscellaneous nuts, bolts and hardware, except for high strength bolts, may be stainless steel when plans specify galvanized, provided the bolt size is  $\frac{1}{2}$  in. or less in diameter. and schedule as shown on the plans. Do not extend substituted conduit into ground boxes or ndations. Provide PVC or galvanized steel RMC elbows as called for at all ground boxes and . Provide the following test equipment as required by the Engineer to confirm compliance with the contract and the NEC: voltmeter, ammeter, megahm meter (1000 volt DC), ground resistance tester, torque wrenches, and torque screwdrivers. Ensure all equipment has been properly calibrated within the last year. Provide calibration certification to the Engineer upon
  - 10. Use two-hole straps when supporting 2 in, and larger conduits. On electrical service poles. properly sized stainless steel or hot dipped galvanized one-hole standoff straps are allowed on the service riser conduit. B. CONSTRUCTION METHODS
  - Provide and install expansion joint conduit fittings on all structure-mounted conduits at the structure's expansion joints to allow for movement of the conduit. In addition, provide and install expansion joint fittings on all continuous runs of galvanized steel RMC conduit externally exposed on structures such as bridges at maximum intervals of 150 ft. When requested by the project Engineer, supply manufacturer's specification sheet for expansion joint conduit fittings. Repair or replace expansion joint fittings that do not allow for movement at no additional cost to the Department. Provide the method of determining the amount of expansion to the Engineer upon request. Do not use LFMC or LFNC as a substitute for the required expansion conduit fittings.
  - 2. Space all conduit supports at maximum intervals of 5 ft. Install conduit spacers when attaching metal conduit to surface of concrete structures. See "Conduit Mounting Options" on ED(2). Install conduit support within 3 ft. of all enclosures and conduit terminations.
  - 3. Do not attach conduit supports directly to pre-stressed concrete beams except as shown specifically in the plans or as approved by the Engineer
  - Unless otherwise shown on the plans, jack or bore conduit placed beneath existing roadways, driveways, sidewalks, or after the base or surfacing operation has begun. Backfill and compact the bore pits below the conduit per Item 476 "Jacking, Boring, or Tunneling Pipe Box" prior to installing conduit or duct cable to prevent bending of the connect
  - 5. When placing conduit in the sub-grade of new roadways, backfill all trenches with excavated material unless otherwise noted on the plans. When placing conduit in the sub-base of new roadways, backfill all trenches with cement-stabilized base as per requirements of Items 110 "Excavation", 400 "Excavation and Backfill "Or Structures", 401 "Flowable Backfill", 402 "Trench Excavation Protection", and 403 "Temporary Special Shoring."
  - 6. Provide and place warning tape approximately 10 in. above all trenched conduit as per Item 618. 7. During construction, temporarily cap or plug open ends of all conduit and raceways immediately
  - after installation to prevent entry of dirt, debris and animals. Temporary caps constructed of durable duct tape are allowed. Tightly fix the tape to the conduit opening. Clean out the conduit and prove it clear in accordance with Item 618 prior to installing any conductors. 8. Ensure conduit entry into the top of any enclosure is waterproof by installing conduit sealing
  - hubs or using boxes with threaded bosses. This includes surface mounted safety switches, mete cans, service enclosures, auxiliary enclosures and junction boxes. Grounding bushings on water
  - 9. Fit the ends of all PVC conduit terminations with bushings or bell end fittings. Provide and
  - 10. Install a bonding jumper from each grounding bushing to the nearest ground rod, grounding lug, or equipment grounding conductor. Ensure all bonding jumpers are the same size as the equipment grounding conductor. Bonding of conduit used as a casing under roadways for duct cable is not required, if the duct extends the full length through the casing.
  - 11. At all electrical services, install a 6 AWG solid copper grounding electrode conductor. 12. Place conduits entering ground boxes so that the conduit openings are between 3 in. and 6 in. from the bottom of the box. See the ground box detail on sheet ED(4).
  - 13. Seal ends of all conduits with duct seal, expandable foom, or by other methods approved by the Engineer. Seal conduit immediately after completion of conductor installation and pull tests. Do not use duct tape as a permanent conduit sealant. Do not use silicone caulk as a
  - 14. File smooth the cut ends of all mounting strut and conduit. Before installing, paint the field cut ends of all mounting strut and RMC (threaded or non-threaded) with zinc rich paint (94% or more zinc content) to alleviate overspray. Use zinc rich paint to touch up galvanized material as allowed under Item 445 "Galvanizing." Do not paint non-galvanized material with a zinc rich paint as an alternative for materials required to be galvanized.

GROUND BOXES

B. CONSTRUCTION METHODS

Do not use silicone coulk as a sealant.

1. Provide polymer concrete ground boxes measuring 16x30x24 in. (WxLxD) or smaller i

4. Provide larger ground boxes in accordance with Item 624 and as shown in the plans.

Remove all gravel and dirt from conduit. Cap all conduits prior to placing aggregate
and setting ground box. Provide Grade 3 or 4 coarse aggregate as shown on Table 2 of
Item 302 "Aggregates for Surface Treatments." Ensure aggregate bed is in place and at
least 9 inches deep, prior to setting the ground box. Install ground box on top of

2. Cast ground box aprons in place. Reinforcing steel may be field bent. Ensure the depth

under the box. Ground box aprons, including concrete and reinforcing steel, are subsidiary to ground boxes when called for by descriptive code.

Install all conduits and ells in a neat and workmanlike manner. Uniformly space conduits so grounding bushings and bell end fittings can easily be installed.

5. Temporarily seal all conduits in the ground box until conductors are installed.

3. Keep bolt holes in the box clear of dirt. Bolt covers down when not working in ground

Permanently seal conduits immediately after the completion of conductor installation and pull tests. Permanently seal the ends of all conduits with duct seal, expandable foam, or other method as approved. Do not use duct tape as a permanent conduit sealant.

When a ground rod is present in a ground box, bond all equipment grounding conductors together and to the ground rod with listed connectors.

9. If an existing ground box in the contract has a metal cover, bond the cover to the equipment grounding conductor with a 3 ft. long stranded bonding jumper the same size as the grounding conductor. The bonding jumper is subsidiary to various bid items.

erify existing ground boxes with metal covers are shown on the plans, with notes

10. If other ground boxes with metal covers are within the project limits but are not part

of the contract, the Engineer may direct the Contractor to bond the metal covers, identifying the specific boxes in writing. This work will be paid for separately.

11. Bond metal ground box covers to the grounding conductor with a tank ground type lug.

8. When a type B or D ground box is stacked to meet volume requirements, it is allowable to cut an appropriately sized hole for conduit entry in the side wall at least 18 inches

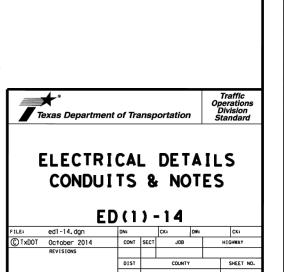
of concrete for the apron extends from finished grade to the top of the aggregate bed

3. Ensure ground box cover is correctly labeled in accordance with DMS 11070.

lance with Departmental Material Specification (DMS) 11070 "Ground Boxes" and

Provide Type A, B, C, D, and E ground boxes as shown in the plans, and as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies," Item 624.

A. MATERIALS



- Provide Type XHHW insulated conductors in accordance with Departmental Material Specification (DMS)11040 "Conductors" and Item 620 "Electrical Conductors." Provide conductors as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies" Item 620. Color code insulated conductors in conformance with the NEC. Identify grounded (neutral) conductors with conductors in conformance with the NEC. Identity grounded (neutral) conductors with white insulation. Identify grounding conductors (ground wires) with green insulation or bare conductors, Identify ungrounded (hot) conductors with any color insulation except green, white, or gray. Keep color scheme consistent throughout the wiring system. Identify conductors 6 American Wire Gauge (AWG) and smaller by continuous color jacket. Identify electrical conductors 4 AWG and larger by continuous color jacket or by colored tape. When identifying conductors with colored tape, mark at least 6 in. of the conductor's insulation with half laps of tape.
- Provide a solid copper 6 AWG grounding electrode conductor to bond the electrical service equipment to the concrete encased grounding electrode or the ground rod at the service location. Connect the grounding electrode conductor to the ground rod with a UL listed connector in accordance with DMS 11040. Connect the grounding electrode conductor to the concrete encased grounding electrode as shown in the
- . Where two or more circuits are present in one conduit or enclosure, permanently identify the conductors of each branch circuit by attaching a non-metallic tag around both circuit conductors at each accessible location. Provide tags with two straps, large enough to indicate circuit number, letter, or other identification as shown in the plans. Print circuit identification on the tag
- 4. Use listed compression or screw type pressure connectors, terminal blocks, or split bolt connectors for splicing as specified in DMS 11040. Use hot melt adhesive tape to fill the gap and seal the ends of heat shrink tubing. Provide UL listed gel-filled insulating splice covers. Splicing materials, insulating materials, breakaway disconnects, splice covers, and fuse holders are subsidiary to various bid items. CONSTRUCTION METHODS
- Use only a flat, high tensile strength polyester fiber pull tape for pulling conductors through the conduit system. After installing conductors in conduit, perform conductor pull test. If a conductor cannot be freely pulled, make any needed alterations or repairs at no additional cost to the department. Perform insulation resistance tests in accordance with them insulation resistance tests in accordance with Item 620. Coordinate with the Engineer to witness the tests.
- Leave 2 ft. minimum, 3 ft. maximum length for each conductor up to the splice in ground boxes. Leave 3 ft. minimum, 4 ft. maximum length of conductor in ground boxes when pulled through with no splice. Leave 1 ft. minimum, 1.5 ft. maximum length of conductor at enclosures, weatherheads and pole bases.
- 3. Make splices only in junction boxes, ground boxes, pole bases, or electrical enclosures and use only listed compression or screw type pressure connectors, terminal blocks, or split bolt connectors. Insulate splices with heavy wall heat shrink tubing or gel-filled insulating splice covers to provide a watertight splice. Overlap conductor insulation with heat shrink tubing a minimum of 2 in, past both sides of the splice. Where heat shrink tubing may not shrink sufficiently to provide a watertight seal around the individual conductors, prior to heating the tubing, increase the diameter of the conductor insulation using hot melt adhesive tape to provide a watertight seal between the individual conductors and the heat shrink tubing. Ensure the tape extends past the heat shrink tubing. Use hot melt adhesive tape to fill the gap and seal the ends of heat shrink tubing. Heat shrink tubing that appears to have been burned, or overheated, is considered defective and must be replaced.
- Size and install gel-filled insulating splice covers according to manufacturer's specifications when used in place of heat shrink tubing.
- 5. Wire nuts with factory applied waterproof sealant may be used for 8 AWG or smaller conductors in above ground junction boxes, but not in pole bases or ground boxes. Install wire nuts in an upright position to prevent the
- 5. Support conductors in illumination poles with a J-hook at the top of the pole. When terminating conductors, remove the insulation and jacketing material without
- nicking the individual strands of the conductor. Conductors with nicked individual conductor strands or removed strands will be considered damaged.
- Replace conductors and cables that are damaged beyond repair or that fail an insulation resistance test at no additional cost to the department.
- Do not repair damaged conductors with duct tape, electrical tape, or wire nuts. Use only approved splicing methods.
- Do not terminate more than one conductor under a single connector, unless the connector is rated for multiple conductors. Do not exceed the pressure connector's listing for maximum number and size of conductors allowed.
- . Install breakaway connectors on conductors bid under Item 620 whenever those conductors pass through a breakaway support device. Follow manufacturer's instructions when terminating conductors to breakaway connectors. Properly torque threaded connections. Proper terminations are critical to the safe operation of breakaway devices. Trim waterproofing boots on breakaway connectors to fit snugly around the conductor to ensure waterproof connection. Only one conductor may enter a single opening in a boot. Provide waterproof boots with the correct number of openings. Leave unused openings factory sealed. Use prequalified breakaway connectors as shown on the MPL.

- 12. Provide and install a separate stranded equipment grounding conductor (EGC) in all conduits that contain circuit wiring of 50 volts or more. Unless shown elsewhere, size the EGC to be the same size as the largest current carrying conductor contained in the conduit. Ensure all EGCs are bonded together at every accessible location. For traffic signal installations, provide a minimum size 8 AWG EGC. The EGC is paid for C. TEMPORARY WIRING
- 1. Install temporary conductors and electrical equipment in accordance with the NEC article "Temporary Installations" and Department standard sheets.
- 2. Provide a ground fault circuit interrupter (GFCI) for power outlets for portable electrical equipment, power tools, ice machines, ice storage bins and refrigerators located outdoors at grade. GFCI may be any one of the
- following: molded cord and plug set, receptacle, or circuit breaker type 3. Use listed wire nuts with factory applied sealant for temporary wiring
- 4. Enclose conductor splices within a listed enclosure or ground box, or ensure the splices are more than 10 ft. above grade vertically and more than 5 ft. horizontally from any metal structure. Where installing temporary conductors in areas subject to vehicle traffic or mobile construction equipment, ensure the vertical clearance to ground is at least 18 ft. when measured at the lowest point. Ground messenger wires that support power conductors in conformance with the NEC.
- Protect and when necessary repair any existing electrical conduits uncovered during the construction process in a timely manner and in conformance with the NEC.

#### GROUND RODS & GROUNDING ELECTRODES

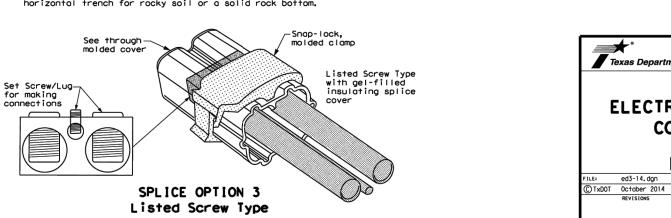
A. MATERIAL INFORMATION

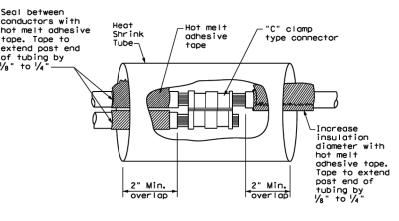
B. CONSTRUCTION METHODS

- Provide and install a grounding electrode at electrical services. Provide ground rods according to DMS 11040 and the plans. Larger diameter or longer length rods may be called for in some specific locations, see the individual plans sheets. Concrete encased grounding electrodes may be called for in specific locations including electrical service, see individual plan sheets.
- 1. Furnish auxiliary ground rods for lightning protection and install in soil, concrete, or both, as called for in the plans. For ground rods installed in concrete, ensure the connection of the conductor to the ground rod is readily accessible for inspection or repairs. For ground rods installed in soil, ensure that the upper end is between 2 to 4 in. below finished grade.
- 2. Do not place ground rods in the same drilled hale as a timber pole. 3. Install ground rods so the imprinted part number is at the upper end of
- 4. Remove all non-conductive coatings such as concrete splatter from the rod at the clamp location. 5. Route all conductors as short and straight as possible for connection to

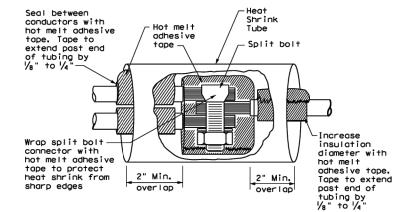
lightning protection ground rods. When a bend is required, ensure a minimum radius bend of four inches for these conductors.

- 6. Unless otherwise called for in the plans, protect grounding electrode conductors with non-metallic conduit. When protecting grounding electrode conductors with metal conduit, provide and install a grounding type bushing
- and properly sized bonding jumper on each end of the metal conduit. Written authorization is required before installing a ground rod in a horizontal trench for rocky soil or a solid rock bottom.





SPLICE OPTION 1 Compression Type



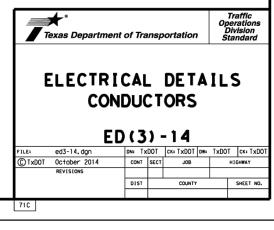
MAIN DISCONNECT & BRANCH CIRCUIT BREAKERS

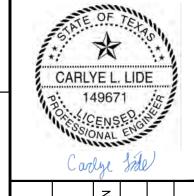
PHOTOELECTRIC CONTROL

Standard 3-prong

1. Field drill flange-mounted remote operator handle if needed, to ensure handle is lockable in both the "On" and "Off" positions.

SPLICE OPTION 2 Split Bolt Type





0

Ш

 $\Box$  .

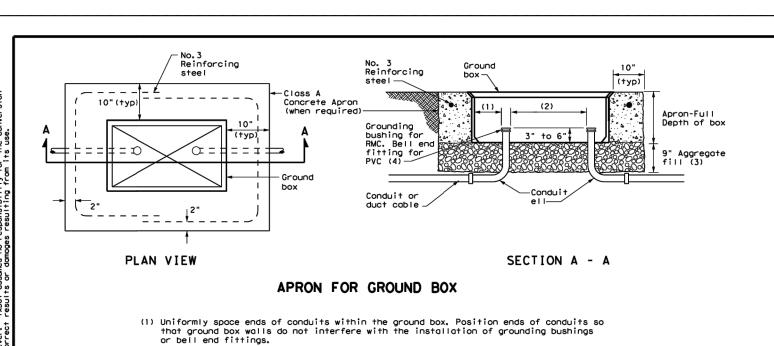
C

2. When the utility company provides a transformer larger than 50 KVA, verify that the available fault current is less than the circuit breaker's ampere interrupting capacity (AIC) rating and provide documentation from the electric utility provider to the Engineer. 1. Provide photocell as listed on the MPL. Move, adjust, or shield the photocell from stray or ambient night time light to ensure proper operation. Mount photocell facing north when practical. Mount top of pole photocells as shown on Top Mounted Photocell Detail.

00> Conduit mounting

> O  $\sum_{i=1}^{n} \sum_{j=1}^{n} a_{ij}$  $\triangleleft$

SHEET NUMBER L3.06



- (2) Maintain sufficient space between conduits to allow for proper installation of bushing.
- (3) Place aggregate under the box, not in the box. Aggregate should not encroach on the
- (4) Install a grounding bushing on the upper end of all RMC terminating in a ground box. Ground RMC elbows when any part of the elbow is less than 18 in. below the bottom of the ground box. Install a PVC bushing or bell end fitting on the upper end of all PVC conduits terminating in a ground box.

| GROU | ND BOX DIMENSIONS                                    |
|------|--|
| TYPE | OUTSIDE DIMENSIONS (INCHES) (Width x Length X Depth) |
| Α    | 12 X 23 X 11   |
| В    | 12 X 23 X 22   |
| С    | 16 X 29 X 11   |
| D    | 16 X 29 X 22   |
| Е    | 12 X 23 X 17   |

request. Operate test equipment during inspection as requested by the Engineer

connectors, and bonding jumpers are subsidiary to the various bid items.

CONDUIT

A. MATERIALS

Install grounding as shown on the plans and in accordance with the NEC. Ensure all metallic

6. When required by the Engineer, notify the Department in writing of materials from the Material Producers List (MPL) intended for use on each project. Prequalified materials are listed on the MPL on TxDOT's website under "Roadway Illumination and Electrical Supplies." No substitutions will be allowed for materials on this list.

conduits; metal poles; luminaires; and metal enclosures are bonded to the equipment grounding

conductor. Provide stranded bare copper or green insulated grounding conductors. Ground rods,

1. Provide conduit, junction boxes, fittings, and hardware as per TxDOT Departmental Material Specification (DMS) 11030 "Conduit" and Item 618 "Conduit" of TxDOT's "Standard Specifications For Construction And Maintenance Of Highways, Streets, And Bridges," latest edition. Provide conduits listed under Item 618 on the MPL under "Roadway Illumination and Electrical Supplies." Provide conduit types according to the descriptive code or as shown on the plans. Do not substitute other types of conduits for those shown. Provide liquidtight flexible metal conduit (LFMC) when flexible conduit is called for on galvanized steel rigid metallic conduit (RMC) systems. Provide liquidtight flexible pagmentallic conduit (LFMC) when flexible conduit is

systems. Provide liquidtight flexible nonmetallic conduit (LFNC) when flexible conduit is

. Provide galvanized steel RMC for all exposed conduits, unless otherwise shown on the plans.

3. Unless otherwise shown on the plans, provide junction boxes with a minimum size as shown in the following table, which applies to the greatest number of conductors entering the box through one conduit with no more than four conduits per box. When a mixture of conductor sizes is present, count the conductors as if all are of the larger size. For situations not applicable to the table, size junction boxes in accordance with NEC.

AWG 3 CONDUCTORS 5 CONDUCTORS 7 CONDUCTORS

#2 8" x 8" x 4" 10" x 10" x 4" 12" x 12" x 4

#4 8" x 8" x 4" 10" x 10" x 4" 10" x 10" x 4

#6 8" x 8" x 4" 8" x 8" x 4" 10" x 10" x 4" #8 8" x 8" x 4" 8" x 8" x 4" 8" x 8" x 4"

4. Junction boxes with an internal volume of less than 100 cu. in, and supported by

5. Provide hot dipped galvanized cast iron or sand cast aluminum outlet boxes for

aluminum boxes. Size outlet boxes according to the NEC.

the same requirements for junction boxes used with RMC systems.

entering raceways must have threaded entries or hubs identified for the intended purpose and supported by connection of two or more rigid metal conduits. Secure conduit within 3 ft. of the enclosure or within 18 in. of the enclosure if all

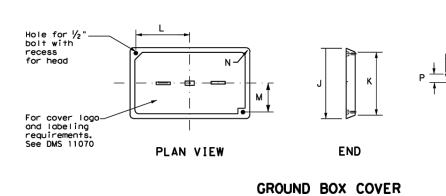
junction boxes containing only 10 AWG or 12 AWG conductors. Do not use die cast

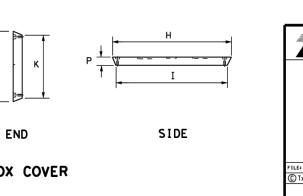
unless specifically required by the plan sheets. When EMT is called for, provide junction boxes made from galvanized steel sheeting, listed and approved for outdoor use, unless otherwise noted on the plans. Size all galvanized steel junction boxes in accordance with the NEC. Provide junction boxes for IMC conduit systems that meet

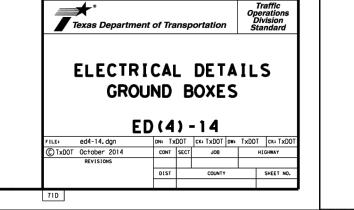
. Provide PVC junction boxes intended for outdoor use on PVC conduit systems, unless

conduit entries are on the same side. Mechanically secure all junction boxes with

#### GROUND BOX COVER DIMENSIONS DIMENSIONS (INCHES) H | I | J | K | L | M | N | P А, В & Е 23 1/4 23 13 3/4 13 1/2 9 1/8 5 1/8 1 3/8 2 | 30 ½ | 30 ¼ | 17 ½ | 17 ¼ | 13 ¼ | 6 ¾ | 1 ¾ | 2







# ELECTRICAL SERVICES NOTES

Provide new materials. Ensure installation and materials comply with the applicable provisions of the National Electrical Code (NEC) and National Electrical Manufacturers Association (NEMA) standards. Ensure material is Underwriters Laboratories (UL) listed. Provide and install electrical service conduits, conductors, disconnects, contactors, circuit breaker panels, and branch circuit breakers as shown on the Electrical Service Data chart in the plans. Faulty fabrication or poor workmanship in material, equipment, or installation is justification for rejection. Where manufacturers provide warranties and guarantees as a customary trade practice, furnish these to the State.

Provide electrical services in accordance with Electrical Details standard sheets, Departmental Material Specification (DMS) 11080 "Electrical Services, "DMS 11081 "Electrical Services-Type A," DMS 11082 "Electrical Services-Type C," DMS 11083 "Electrical Services-Type D," DMS 11084 "Electrical Services-Type T," DMS 11085 "Electrical Services-Type D," DMS 11085 "Electrical Services-Pedestal (PS)", and Item 628 "Electrical Services" of the Standard Specifications. Provide electrical service types A, C, and D, as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies," Item 628. Provide other service types as detailed on the plans.

Provide all work, materials, services, and any incidentals needed to install a complete electrical service as specified in the plans. I. Coordinate with the Engineer and the utility provider for metering and compliance with utility requirements. Primary line extensions, connection charges, meter charges, and other charges by the utility company to provide power to the location are paid for in accordance with Item 628. Get approval for the costs associated with these charges prior to engaging the utility company to do the work. Consult with the utility provider to determine costs and requirements, and coordinate the work as approved.

is. The enclosure manufacturer will provide Master Lock Type 2 with brass tumblers keyed #2195 for all custom electrical enclosures. Installing Contractor is to provide Master Lock #2195 Type 2 with brass tumblers for "off the shelf" enclosures. Master Lock #2195 keys and locks become property of the State. Unless otherwise approved, do not energize electrical service equipment until locks are installed.

Enclosures with external disconnects that de-energize all equipment inside the enclosure do not need a dead front trim. Protect incoming line terminations from incidental contact as required by the NEC.

When galvanized is specified for nuts, screws, bolts or miscellaneous hardware,

8. Provide wiring and electrical components rated for 75°C. Provide red, black, and white colored XHHW service entrance conductors of minimum size 6 American Wire Gauge (AWG). Identify size 6 AWG conductors by continuous color jacket. Identify electrical conductors sized 4 AWG and larger by continuous color jacket or by colored tape. Mark at least 6 inches of the conductor's insulation with half laps of colored tape, when identifying conductors. Ensure each service entrance conductor exits through a separately bushed non-metallic opening in the weatherhead. The lengths of the conductors outside the weatherhead are to be 12 inches minimum, 18 inches maximum, or as required by utility.

All electrical service conduit and conductors attached to the electrical service including the riser or the elbow below ground are subsidiary to the electrical service. For an underground utility feed, all service conduit and conductors afte the elbow, including service conduit and conductors for the utility pole riser when furnished by the Contractor, will be paid for separately.

0. Provide rigid metal conduit (RMC) for all conduits on service, except for the  $\frac{1}{2}$  in. PVC conduit containing the electrical service grounding electrode conductor. Size the service entrance conduit as shown in the plans. Ensure conduit for branch circuit entry to enclosure is the same size as that shown on the layout sheets for branch circuit conduit. Extend all rigid metal conduits a minimum of 6 inches underground and then couple to the type and schedule of the conduit shown on the layout for that particular branch circuit. Install a grounding bushing on the RMC where it terminates in the service enclosure. 1. Use of liquidtight flexible metal conduit (LFMC) is allowed between the meter and service enclosure when they are mounted 90 to 180 degrees to each other. Size the LFMC the same size as service entrance conduit. LFMC must not exceed 3 feet in length. Strap LFMC within 1 foot of each end. LFMC less than 12 inches in length need not be strapped. Each end of LFMC must have a grounding bushing or be terminated with a grounding fitting. The LFMC must contain a grounded (neutral) conductor. Ensure any bend in LFMC never exceeds 180 degrees. A pull test is required on all installed conductors, with at least six inches of free conductor movement demonstrated to the satisfaction of the Engineer.

Ensure all mounting hardware and installation details of services conform to utility company specifications. 5. For all electrical service enclosures listed under Item 628 on the MPL, the UL 508 enclosure manufacturers will prepare and submit a schematic drawing unique to each service. Before shipment to the job site, place the applicable laminated schematic drawings and the laminated plan sheet showing the electrical service data chart used to build the application of the enclosure in data each to the control of the property of the enclosure in the control of the control o sed to build the enclosure in the enclosure's data pocket. The installing contractor

4. When providing an "Off The Shelf" Type D or Type T service, provide laminated plan sheets detailing equipment and branch circuits supplied by that service. Reduce 11 in.  $\times$  17 in. plan sheets to 8  $\frac{1}{2}$  in.  $\times$  11 in before laminating. Deliver these drawings before completion of the work to the Engineer, instead of placing in

will copy and laminate the actual project plan sheets detailing all equipment and branch circuits supplied by that service. The laminated plan sheets are to be placed in the service enclosure's document pocket. Reduce 11 in. x 17 in. plan sheets to  $8\frac{1}{2}$  in. x 11 in. before laminating. If the installation differs from the plan sheets, the installing contractor is to redline plan sheets before laminating.

5. Do not install conduit in the back wall of a service enclosure where it would penetrate the equipment mounting panel inside the enclosure. Provide grounding bushings on all metal conduits, and terminate bonding jumpers to grounding bus. Grounding bushings are not required when the end of the metal conduit is fitted with a conduit sealing hub or threaded boss, such as a meter base hub.

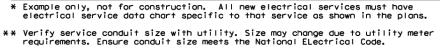
#### SERVICE ASSEMBLY ENCLOSURE 1. Provide threaded hub for all conduit entries into the top of enclosure. Type galvanized steel (GS) enclosures may be used for Type C panelboards

for making connections

and for Type D and T services that do not use an enclosure mounted photocell or lighting contactor. Provide GS enclosures in accordance with DMS 11080, 11082, 11083, and 11084. Provide aluminum (AL) and stainless steel (SS) enclosures for Types A, C, and D in accordance with DMS 11080, 11081, 11082, 11083, and 11084. Do not paint stainless steel.

4. Provide pedestal service (PS) enclosures in accordance with ED(9) and DMS 11080 and 11085. Do not provide GS pedestal services. If GS is shown in the PS descriptive code, provide an AL enclosure.

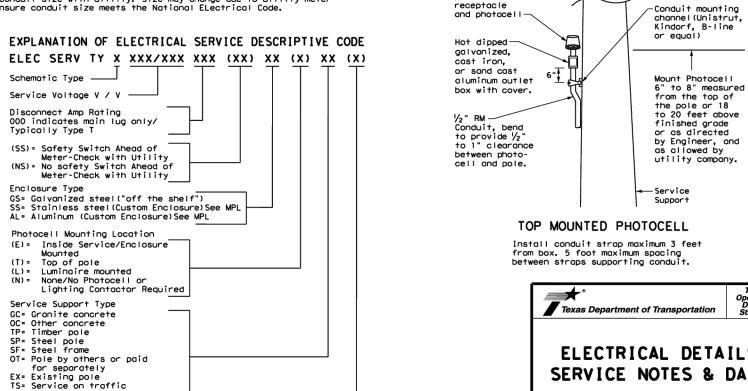
\* ELECTRICAL SERVICE DATA Service | Service | Safety | Main | Two-Pole | Panelbd/ Branch Branch KVA Circuit Pole/Amps Amps \*\*Size No./Size Amps Pole/Amps Amps Amp Rating 289 ELC SRV TY A 240/480 100(SS) AL (E) SF (U 100 2P/100 Lighting NB Lighting SB Underpass CCTV 58 ELC SRV TY T 120/240 000 (NS) GS (N) SP (O) 1 1/4" 3/#6 N/A N/A

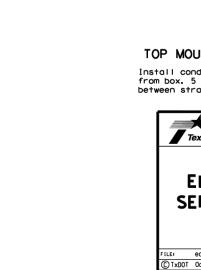


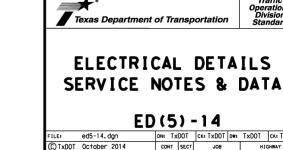
signal pole
PS= Pedestal Service

O= Overhead Service Feed from Utility

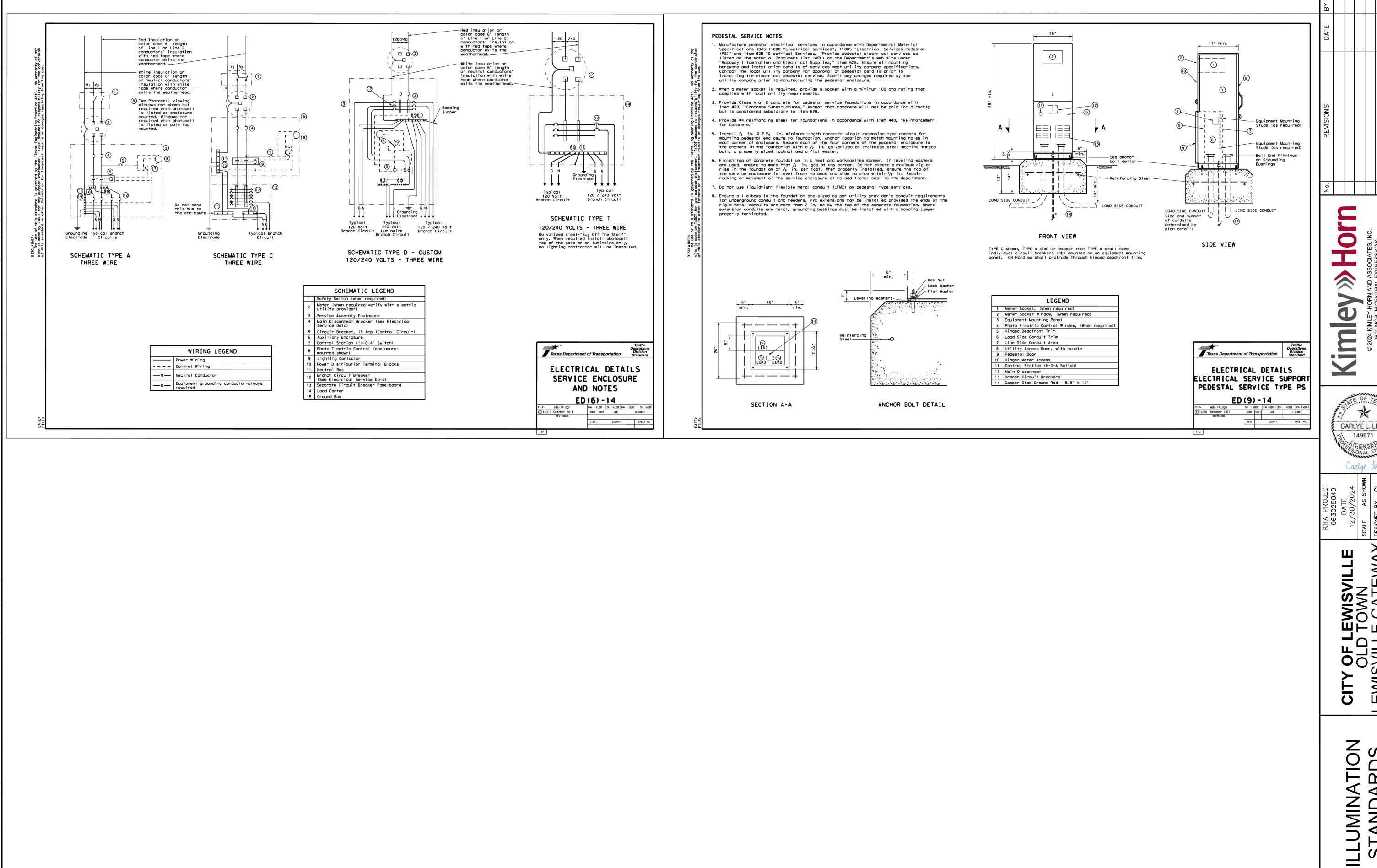
U= Underground Service Feed from Utility







DIST COUNTY



CARLYE L. LIDE Carlye Side

CITY OF LEWISVILLE OLD TOWN LEWISVILLE GATEWAY

STANDARDS

SHEET NUMBER L3.07

#### GENERAL NOTES

- 1. ALL NOTES ARE PART OF THE PROJECT REQUIREMENTS BUT ARE NOT INTENDED TO REPLACE THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICTS BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS AND THESE NOTES, THE MORE STRINGENT REQUIREMENT, AS INDICATED BY THE ENGINEER, SHALL GOVERN.
- 2. THESE DOCUMENTS, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, ARE INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATIONS BY KIMLEY—HORN MUST BE WITHOUT LIABILITY TO KIMLEY—HORN.
- 3. IT IS UNDERSTOOD THAT THE CONSULTANT MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE, EXCEPT THAT THESE INSTRUMENTS OF SERVICE HAVE BEEN PREPARED IN ACCORDANCE WITH THE CURRENT GENERALLY ACCEPTED PROFESSIONAL ENGINEER PRACTICES.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURES.
- 5. SEE LANDSCAPE SHEETS FOR THE LOCATION OF STRUCTURAL ELEMENTS, SITE FEATURES, UNDERGROUND UTILITIES AND SITE WORK LOCATIONS. VERIFY LOCATIONS FOR ALL UNDERGROUND UTILITIES BEFORE PROCEEDING WITH FOUNDATION EXCAVATION. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL FRANCHISE AND CITY UTILITIES PRIOR TO CONSTRUCTION.
- 6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL PROTECT THE WORK, ADJACENT PROPERTY, AND THE PUBLIC.
- 7. NOTIFY THE ENGINEER IMMEDIATELY OF ANY EXISTING FOUNDATION CONDITIONS OR DETAILS THAT ARE IN CONFLICT WITH THOSE INDICATED AND SHOWN IN THE DRAWINGS.
- 8. ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL TO THE RELATIONSHIP TO THE STRUCTURAL ELEMENTS ONLY. ACCORDINGLY, THEY MUST NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S), PLANS, AND SPECIFICATIONS.

#### **DIMENSIONS**

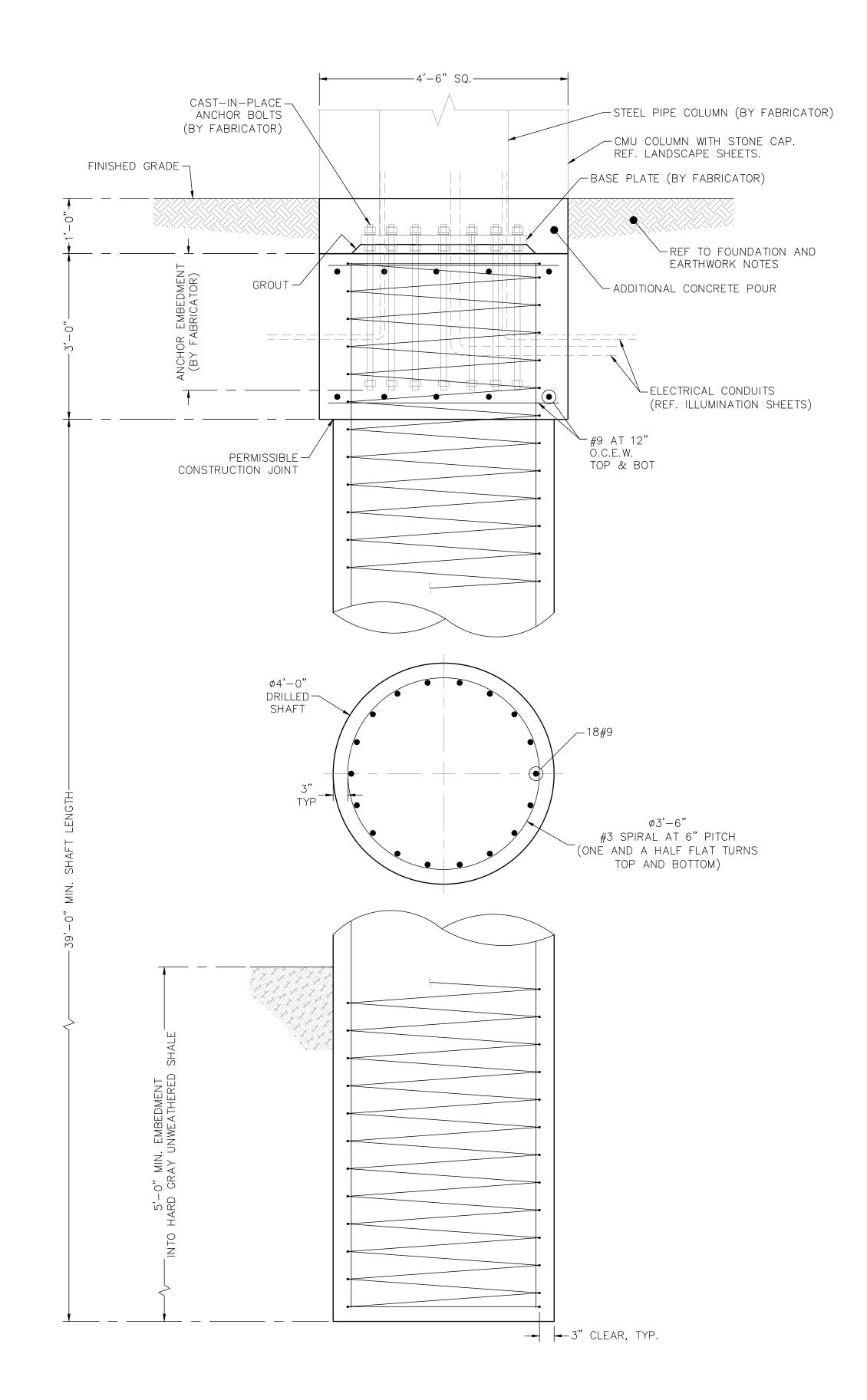
- 1. BEFORE STARTING WORK, CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER OF RECORD.
- 2. THE CONTRACTOR MUST REFER TO THE ENGINEER OF RECORD FOR THEIR INSTRUCTIONS FOR ANY DIMENSION NOT GIVEN ON OR OBTAINABLE FROM THE CONSTRUCTION DRAWINGS. THE CONTRACTOR MUST NOT USE SCALE TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE CONSTRUCTION DRAWINGS.

#### FOUNDATIONS AND EARTHWORK

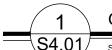
- 1. THE GEOTECHNICAL INVESTIGATION AND STRUCTURE DESIGN IS BASED UPON SOILS REPORT PROJECT NUMBER DE24—121 DATED OCTOBER 24, 2024 BY ALLIANCE GEOTECHNICAL GROUP, INC.
- 2. ALL FOUNDATIONS, EARTHWORK, EXCAVATION, BACKFILL, AND SUBGRADE DRAINAGE SHALL BE SUBJECTED TO OBSERVATION BY GEOTECHNICAL ENGINEER, DESIGNATED BY CONTRACTOR, WHOSE APPROVAL IS REQUIRED PRIOR TO PLACEMENT OF CONCRETE FOUNDATIONS. COORDINATE SCHEDULES TO FACILITATE OBSERVATION.

#### CONCRETE AND RELATED ITEMS

- 1. ALL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, 2024 EDITION AND THE 2017 EDITION OF THE PUBLIC WORKS CONSTRUCTION STANDARDS NORTH CENTRAL TEXAS BY THE NORTH CENTRAL TEXAS COUNCIL AND GOVERNMENTS ("NCTCOG SPECIFICATIONS").
- 2. LOCATION OF ALL JOINTS SHALL BE AS SHOWN.
- 3. CONCRETE MIX DESIGN SHALL BE IN ACCORDANCE WITH TXDOT ITEM 421, HYDRAULIC CEMENT CONCRETE. PROVIDE CONCRETE CLASS C (f'c=3,600 PSI). ALL MIX DESIGNS SHALL BE SUBMITTED FOR APPROVAL.
- 4. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 IN ACCORDANCE WITH TXDOT ITEM 440, REINFORCEMENT FOR CONCRETE. SUBMIT CERTIFICATION FOR ALL REINFORCING STEEL.
- 5. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 2" UNLESS NOTED OTHERWISE. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH SHALL HAVE A MINIMUM CONCRETE COVER OF 3".
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING ALL WORK INCLUDING THE PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURES AND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- 7. ALL CONTINUOUS BARS SHALL HAVE CLASS "B" TENSION LAP SPLICES IN ACCORDANCE WITH TXDOT ITEM 440, REINFORCEMENT FOR CONCRETE.
- 8. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS AND SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES ENCOUNTER.
- 9. ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5,000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, AND ASTM C1107, WHEN APPLICABLE.
- 10. ACI STANDARD HOOKS MUST BE USED UNLESS OTHERWISE NOTED, RE: TABLE 1 ON THIS SHEET.
- 11. DRILLED SHAFT CONSTRUCTION SHALL BE IN ACCORDANCE WITH TXDOT STANDARDS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL ENGINEERING REPORT.
- 12. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL ENGINEERING REPORT FOR THE REQUIREMENTS REGARDING CASING AND TEMPORARY CASING.



| TABLE 1 - | TABLE 1 - HOOK AND LAP SPLICE LENGTHS |               |  |  |  |  |  |
|-----------|---------------------------------------|---------------|--|--|--|--|--|
| BAR SIZE  | HOOK LENGTH                           | SPLICE LENGTH |  |  |  |  |  |
| #3        | 0'-6"                                 | 2'-0"         |  |  |  |  |  |
| #4        | 0'-9"                                 | 2'-9"         |  |  |  |  |  |
| #5        | 1'-0"                                 | 3'-5"         |  |  |  |  |  |
| #6        | 1'-4"                                 | 4'-1"         |  |  |  |  |  |
| #8        | 2'-0"                                 | 6'-9"         |  |  |  |  |  |
| #9        | 2'-6"                                 | 7'-7"         |  |  |  |  |  |



GATEWAY MONUMENT FOUNDATION DETAIL

S4.01 SCALE: 3/4" = 1'-0"

SATEWAY MON OUNDATION D SHEET 1 OF

SHEET NUMBER

S4.01

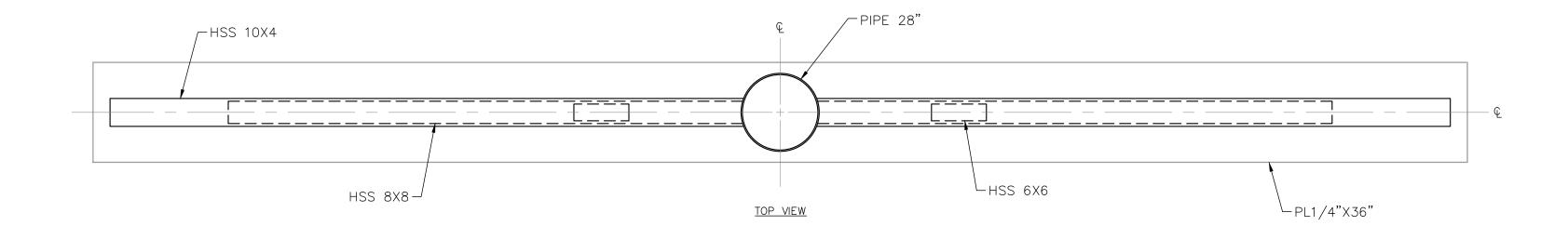
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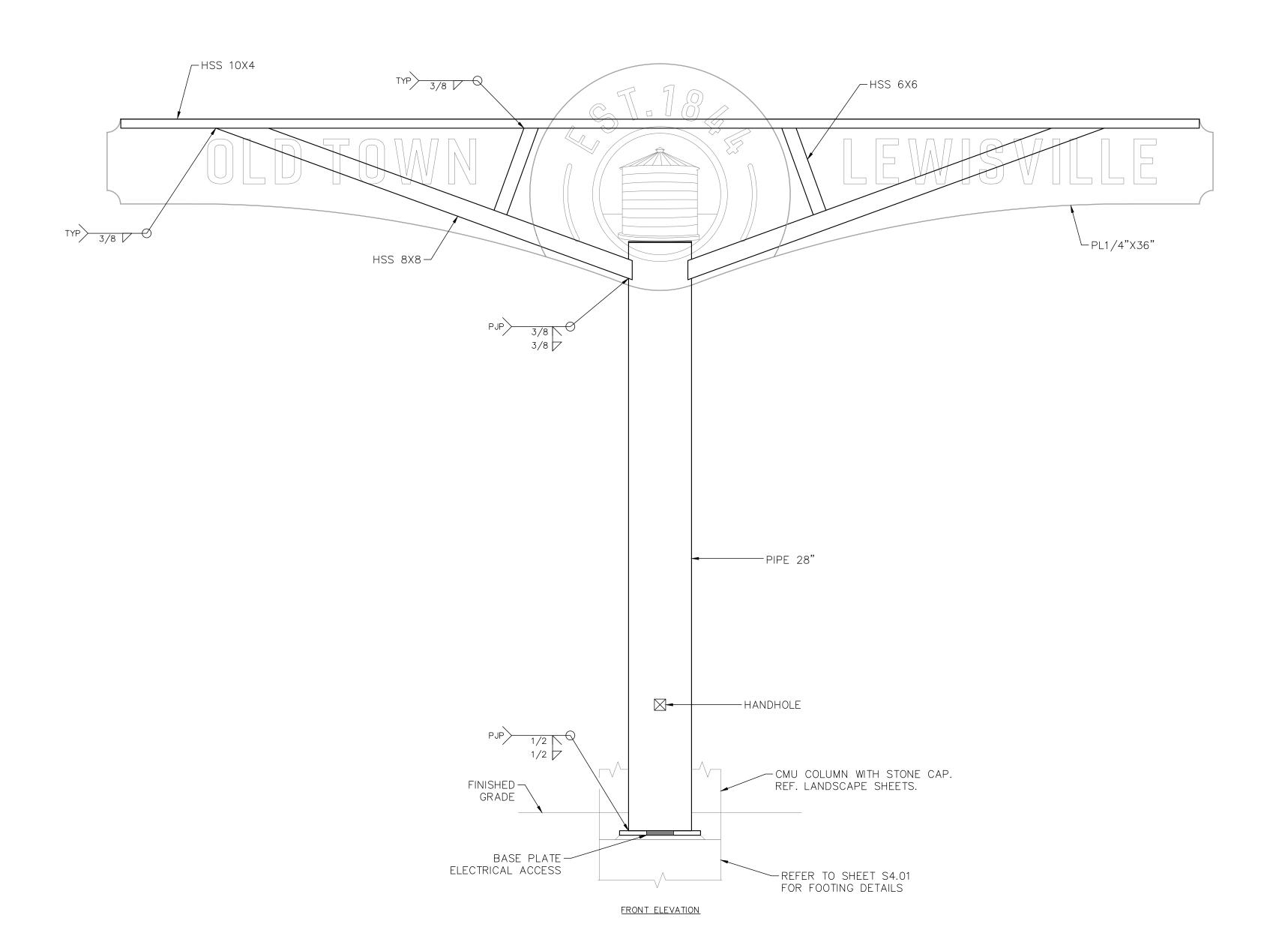
IEN.

MARCO I. PEREZ

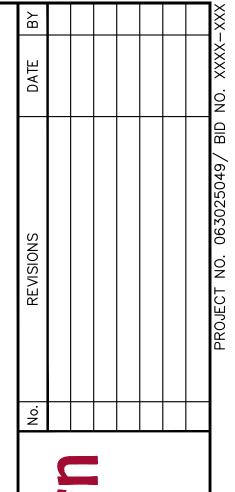
#### STRUCTURAL NOTES:

- 1. REFERENCES TO TXDOT SHALL BE THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, 2024 EDITION.
- 2. DESIGN OF THE GATEWAY MONUMENT AND ANY ASSOCIATED WELDS AND CONNECTIONS ARE PROVIDED BY THE MANUFACTURER AND ARE NOT RESPONSIBILITY OF KIMLEY—HORN AND ASSOCIATES.
- 3. ALL STEEL SHALL BE IN ACCORDANCE WITH TXDOT ITEM 441, STEEL STRUCTURES.
- 4. ALL STEEL SECTIONS SHALL CONFORM TO ASTM A500 GR. C OR ASTM A53 GR. B.
- 5. ALL PLATES SHALL CONFORM TO ASTM A572 GR. 50.
- 6. CONTRACTOR RESPONSIBLE TO FIELD VERIFY INSTALLATION TOLERANCES ARE MET PRIOR TO INSTALLING ANCHOR BOLTS.
- 7. CONTRACTOR SHALL UTILIZE A TEMPLATE FOR ANCHOR BOLTS LAYOUT AND HOLE LOCATION.
- 8. STEEL SIGN AND FRAME SHALL BE DESIGNED BY FABRICATOR TO DISTRIBUTE ALL LOADS TO THE EXTERIOR CONNECTIONS DETAILED ON THESE PLANS. KIMLEY—HORN IS NOT RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE STEEL SIGN AND FRAME ITSELF.
- 9. ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM F3125 GR. A325 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH F436. ALL STRUCTURAL BOLTS, NUTS, AND WASHERS SHALL BE HOT—DIPPED GALVANIZED.
- 10. ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.
- 11. STEEL DESIGN FOR BASE PLATE IS IN ACCORDANCE WITH THE LATEST EDITION OF AISC AND AWS.
- 12. ALL WELDS SHALL BE MADE BY CERTIFIED WELDERS AND SHALL BE SHOP WELDED.
- 13. ALL MATERIAL FOR THIS PROJECT SHALL BE GALVANIZED IN ACCORDANCE WITH TXDOT ITEM 455. ALL GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A 123. ALL FIELD REPAIR SHALL BE ZINC-BASED BAR SOLDER IN ACCORDANCE WITH TXDOT ITEM 445.3.D.1.A AND ASTM A780-09.
- 14. THE CONTRACTOR SHALL ENSURE THAT STEEL CONNECTIONS ARE POSITIONED TO FACILITATE THE EFFICIENT TRANSPORTATION OF THE STRUCTURE'S INDIVIDUAL COMPONENTS.
- 15. REFER TO LANDSCAPE PLANS FOR THE ARCHITECTURAL DETAILS AND REQUIREMENTS OF THE GATEWAY MONUMENT.
- 16. REFER TO ILLUMINATION PLANS FOR THE GATEWAY MONUMENT'S ELECTRICAL DETAILS AND REQUIREMENTS, INCLUDING INTERNAL WIRING. THE CONTRACTOR SHALL ENSURE THAT THE STEEL STRUCTURE PROVIDES A CLEAR PATH FOR ELECTRIC WIRING.
- 17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FROM A LICENSED FABRICATION ENGINEER (TEXAS) FOR REVIEW TO THE PROJECT ENGINEER AND CITY.
- 18. ALL METAL SHALL BE POWDER COATED, PAINTED "TRAFFIC BLACK" COLOR, AND DELIVERED TO SITE.

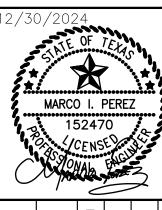








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SCALE AS SHOWN
DESIGNED BY MP

CITY OF LEWISVILLE OLD TOWN EWISVILLE GATEWAY

GATEWAY MONUMENT STRUCTURAL DETAILS SHEET 2 OF 2

SHEET NUMBER S4.02