

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	951040-S1-011	LIGHTING-SIGN1
PLAN-IN-HAND	2025	951040-S3-011	LIGHTING-SIGN1
PS&E	2026	951040-S3-011	ROADWAY-SIGN1



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

**Kodi L Berger**

**2025.12.02 18:25:08-05'00'**

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KIMLEY-HORN AND ASSOCIATES, INC.  
 4525 MAIN STREET  
 SUITE 1000  
 VIRGINIA BEACH, VA 23462  
 KODI L. BERGER, P.E. NO. 129688

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

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**STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION**

**SIGNATURE  
 SHEET**

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING

**WILSON COUNTY**

I-40, INTERCHANGE  
AT GOLDEN BEAR GATEWAY/BECKWITH ROAD

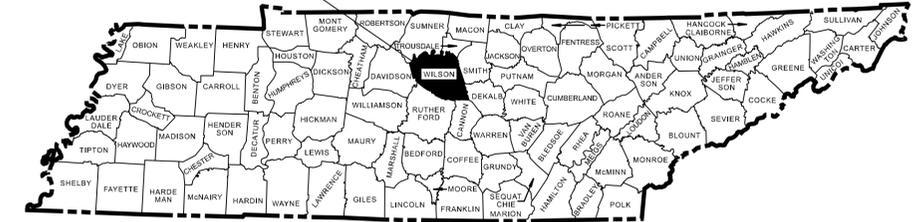
PS&E  
INTERCHANGE LIGHTING

STATE HIGHWAY NO. I-40 F.A.H.S. NO. I-40

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO X

TENN.	YEAR	SHEET NO.
	2026	1
STATE PROJ. NO.	951040-S3-011	

PROJECT LOCATION  
95100400009



END PROJECT NO. 951040-S3-011 CONST.

STA. 176+30.00 I-40  
N 672272.0833 E 1836361.9860

END PROJECT NO. 951040-S1-011 R.O.W.

STA. 176+30.00 I-40  
N 672272.0833 E 1836361.9860

LIMIT OF LIGHTING

STA. 122+99.89 GOLDEN BEAR GATEWAY/  
N 672982.7469 E 1833780.4480 BECKWITH ROAD

LIMIT OF LIGHTING

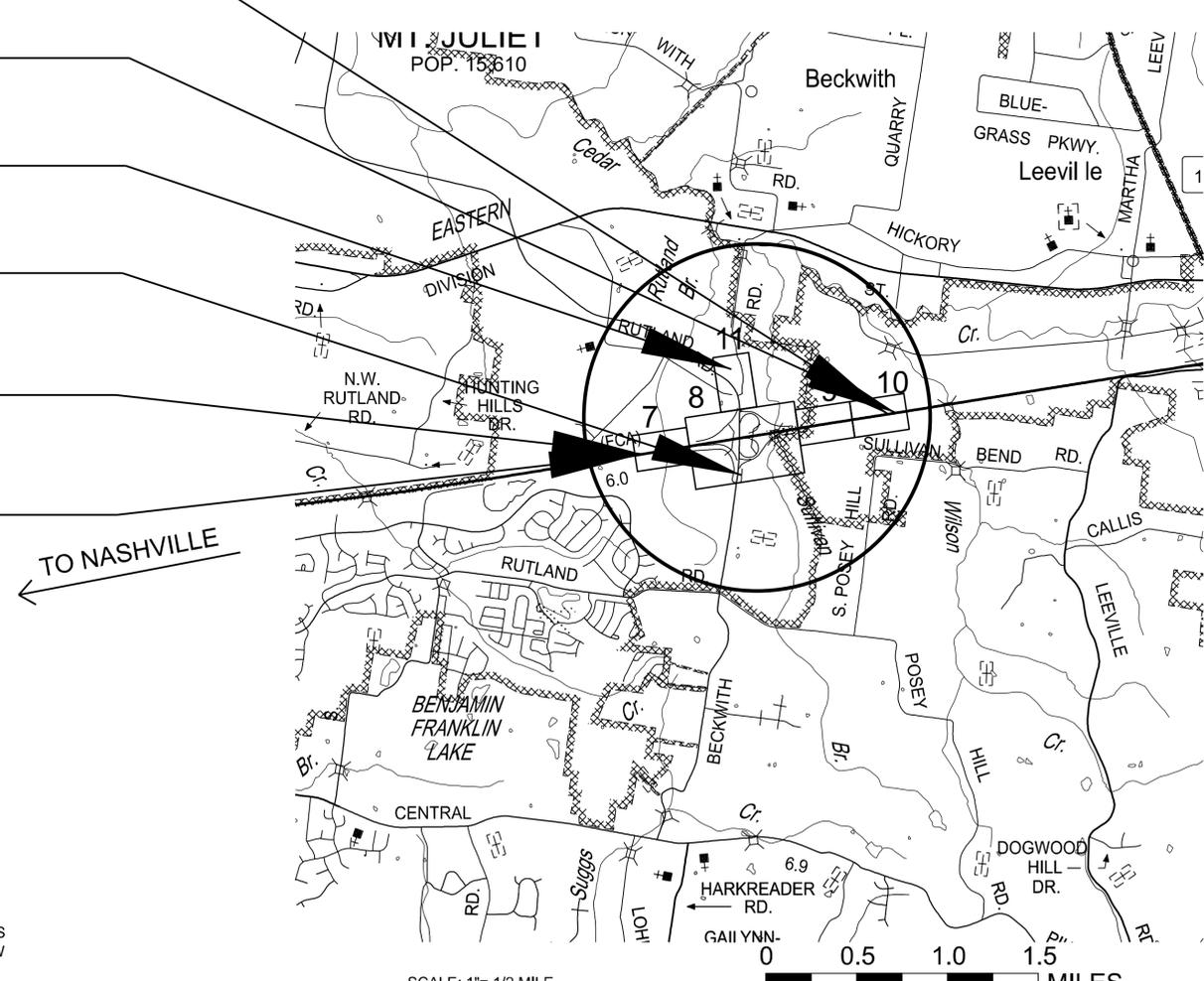
STA. 101+07.14 GOLDEN BEAR GATEWAY/  
N 670792.7990 E 1833735.0137 BECKWITH ROAD

BEGIN PROJECT NO. 951040-S1-011 R.O.W.

STA. 126+73.51 I-40  
N 671569.0991 E 1831454.8297

BEGIN PROJECT NO. 951040-S3-011 CONST.

STA. 126+73.51 I-40  
N 671569.0991 E 1831454.8297

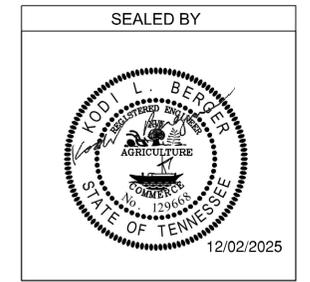


NO EXCLUSIONS

NO R.O.W. REQUIRED

TO KNOXVILLE

TO NASHVILLE



GOLDEN BEAR GATEWAY/  
BECKWITH ROAD

TRAFFIC DATA

ADT (2026)	95,700
ADT (2046)	118,900
DHV (2046)	11,522
D	55 - 45
T (ADT)	15 %
T (DHV)	10 %
V	45 MPH

APPROVED: *Shane Hester*  
SHANE HESTER, CHIEF ENGINEER

DATE:

APPROVED: *Will Reid*  
WILL REID, COMMISSIONER

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT PROJECT MANAGER : DAVID D. LAYHEW, P.E.

DESIGNED BY : KIMLEY-HORN & ASSOCIATES

DESIGNER : KODI L. BERGER, P.E. CHECKED BY SCOTT PATE, P.E.

P.E. NO. 951040-S1-011 (DESIGN)

PIN NO. 133855.00

SCALE: 1"= 1/2 MILE



ROADWAY LENGTH	0.000 MILES
BRIDGE LENGTH	0.984 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	0.984 MILES
TOTAL LANE MILES RESURFACED	0.000 MILES

▲ Not included in the project length.

I-40

SURVEY 04-18-24 TRAFFIC DATA

UPDATE 04-28-25	ADT (2026)	21,310
	ADT (2046)	38,350
	DHV (2046)	4,270
	D	60 - 40
	T (ADT)	7 %
	T (DHV)	5 %
	V	70 MPH

COORDINATES ARE NAD 84(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

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UTILITY PLANS .....	U1

## STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
<b>STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS</b>		
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	10-01-24	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL

### ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

S-F-1 03-01-23 HIGH VISIBILITY FENCE

### EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD

## STANDARD TRAFFIC DESIGN DRAWINGS

DWG. REV. DESCRIPTION

### LIGHTING AND UTILITY POLES

T-L-1	07-15-24	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1TM	07-15-24	STANDARD LIGHTING DETAILS TENON MOUNTED OFFSET LIGHTING SUPPORTS
T-L-3	07-15-24	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	07-15-24	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION

### WORKZONES

T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-18	03-26-25	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD

## STANDARD STRUCTURE DRAWINGS

DWG. REV. DESCRIPTION

### NEW STRUCTURES

STD-8-4	02-26-25	SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS,  
STANDARD DRAWINGS,  
AND GENERAL NOTES

# GENERAL NOTES

## GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

## SEEDING AND SODDING

- (1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 801-01.
- (2) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

## GUARDRAIL

- (1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.
- (2) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE "A" LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING TEMPORARY BARRICADES OR DRUMS WITH TYPE "A" LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL.

## MISCELLANEOUS

- (1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

## SIGNING

- (1) ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. THE CONTRACTOR SHALL CHECK WITH THE REGIONAL TRAFFIC ENGINEER PRIOR TO MOVING ANY PERMANENT SIGNS.

## TRAFFIC CONTROL DIRECTIONAL SIGNING

- (1) ON ALL ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL UTILIZE ALL EXISTING DIRECTIONAL SIGNING FOR AS LONG AS POSSIBLE. THESE EXISTING SIGNS CAN BE MOVED USING TEMPORARY SUPPORTS AS NEEDED. AS SOON AS THESE EXISTING DIRECTIONAL SIGNS COME DOWN PERMANENTLY, THE CONTRACTOR SHALL HAVE UP AT LEAST ONE NEW TEMPORARY "ADVANCE GUIDE SIGN" AND ONE NEW TEMPORARY "EXIT DIRECTIONAL SIGN" AT ALL EXIT RAMP. THESE SIGNS ARE TO BE MAINTAINED WITHIN CLEAR VIEW OF THE PUBLIC ON THE RIGHT SIDE OF THE HIGHWAY AND SHALL BE REPLACED IF DAMAGED, DURING ALL PHASES OF CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
- (2) THE SIZE OF THESE NEW TEMPORARY SIGNS WILL BE DETERMINED BY THE MESSAGE. THE MESSAGE SHALL BE THE SAME AS THE EXISTING SIGN THAT THESE NEW TEMPORARY SIGNS WILL BE REPLACING. THE LETTER SIZE SHALL BE A MINIMUM OF 8 INCH, "D" UPPER CASE LETTER. THE

DIRECTIONAL ARROW WILL BE A "B" ARROW AT A 45 DEGREE ANGLE (SAME ANGLE AS THE EXISTING ARROW). THE MATERIAL SHALL BE 0.100 INCH SHEET ALUMINUM; THE COLOR SHALL BE A REFLECTIVE GREEN BACKGROUND WITH REFLECTIVE WHITE COPY.

- (3) ALL WORK AND MATERIAL TO MAKE THESE NEW TEMPORARY DIRECTIONAL SIGNS ALONG WITH ADEQUATE SUPPORTS AND TO MOVE THEM AS NEEDED DURING EACH PHASE OF CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO. 712-06, AS DIRECTED BY THE ENGINEER.
- (4) SOME OF THESE DIRECTIONAL SIGNS WILL NEED AN INTERSTATE, U.S., OR A STATE HIGHWAY SHIELD, A CARDINAL DIRECTION, AND A DIRECTION ARROW TO ACCOMPANY THE DIRECTIONAL SIGN. THESE SIGNS SHALL BE MOUNTED BELOW THE DIRECTIONAL SIGN.
- (5) ALL EXISTING "EMERGENCY REFERENCE MARKERS" AND "HOSPITAL SIGNS" SHALL BE MAINTAINED WITHIN FULL VIEW OF THE MOTORING PUBLIC THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING AND TEMPORARY SUPPORTS SHALL BE PAID FOR UNDER ITEM NO. 712-06.
- (6) WHEN "LOGO" SIGNS ARE ON ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO THE DEPARTMENT FOR THE REIMBURSEMENT OF THE SIGN FACE IF IT IS DAMAGED. ALL WORK IN MOVING THESE "LOGO" SIGNS AND THE TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712-06, AS DIRECTED BY THE ENGINEER. THE SUPPORTS FOR THE FINAL LOCATION OF THESE SIGNS WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.
- (7) WHEN EXISTING "TOURIST ORIENTED DIRECTIONAL SIGNS" (TODS) ARE ON NON-ACCESS CONTROLLED CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING THESE "TODS" AND TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712-06, AS DIRECTED BY THE ENGINEER. NEW SUPPORTS AND SIGN FACE FOR FINAL LOCATION WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- (3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (5) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN

SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

- (7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- (8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.
- (9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING CONSTRUCTION SIGNS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM NO. 712-06, SIGNS (CONSTRUCTION), S.F.

## LIGHTING

- (1) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 1, 2015 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.
- (2) ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2-INCH SCHEDULE 40 PVC RIGID CONDUIT.
- (3) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.
- (4) EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW GRADE.
- (5) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.
- (6) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.
- (7) STANDARDS SHALL BE DESIGNED FOR 80-MPH WIND PRESSURE AND SHALL SUPPORT A 62-POUND LUMINAIRE ON A 15-FOOT ARM.
- (8) ALL NEW ROADWAY LIGHT STANDARDS SHALL BE MOUNTED ON BASES WITH ACCESS DOOR. TRANSFORMER BASES SHALL MEET AASHTO SPECIFICATIONS AND HAVE FHWA APPROVAL. STANDARDS SHALL BE ALUMINUM WITH TRANSFORMER BASES.

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# HIGH MAST CONSTRUCTION SPECIFICATIONS

## HIGH MAST POLE

- (1) THE POLES SHALL BE ROUND TAPERED STEEL POLES DESIGNED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS EXCEPT AS FURTHER PROVIDED HEREIN.
- (2) POLES SHALL BE DESIGNED FOR 120 MPH WIND PRESSURE. THE DESIGN SHALL SUPPORT THE NUMBER AND TYPE OF LUMINAIRES AND MOUNTING HEAD SPECIFIED IN THE PLANS.
- (3) MATERIAL USED IN THE MANUFACTURE OF STEEL HIGH MAST POLES
  - (A) ASTM A-572 GRADE 60 HIGH STRENGTH STEEL
  - (B) POLES SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A-132
  - (C) ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 55 AND ANCHOR BOLT NUTS SHALL CONFORM TO ASTM A-563.
  - (D) ANCHOR BOLTS SHALL BE THREADED ON END (LOWER THREADING IS FOR A PLATE NUT ATTACHMENT)
  - (E) ANCHOR BOLTS SHALL BE GALVANIZED ON THE THREADED ENDS A MINIMUM OF 10".
  - (F) ANCHOR BOLTS AND ANCHOR BOLT NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123.
  - (G) AN ANCHOR BOLT CAGING METHOD TO MECHANICALLY ALIGN ANCHOR BOLTS SHALL BE PROVIDED. NO WELDING OF ANCHOR BOLTS SHALL BE PERMITTED.
- (4) FABRICATION AND WELDING OF THESE POLES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AWS 01.1 SPECIFICATION.
  - (A) ALL WELDS SHALL BE INSPECTED ACCORDING TO THE AWS STANDARDS SECTION 6, USING DYE PENETRANT OR MAGNETIC PARTICLE INSPECTIONS.
  - (B) THE FIRST WELDED JOINT OF EACH FULL PENETRATION TRANSVERSE WELD FOR EACH ORDER SHALL BE NONDESTRUCTIVELY EXAMINED TO VERIFY THE PREPARATION, PROCEDURES, MAINTENANCE OF UNIFORMITY, AND THAT THE WELD IS OF REQUIRED QUALITY.
  - (C) LONGITUDINAL SEAM WELDS SHALL HAVE A MINIMUM OF 60% PENETRATION AND SHALL BE VERIFIED BY POLISHING, ETCHING, AND EXAMINING A TRIMMING CUT-OFF FROM SELECTED MALE TUBE ENDS.
  - (D) THE FEMALE TUBE ENDS IN THE AREA OF TELESCOPING JOINTS SHALL BE WELDED BOTH INSIDE AND OUT TO ENSURE THE INTEGRITY OF THE WELD.
  - (E) NO TRANSVERSE WELDING SHALL BE PERMITTED TO SECURE OVERLAPPING TELESCOPING JOINTS.
- (5) EACH POLE SHALL BE FURNISHED WITH A TOP MOUNTING TENON TO ACCEPT THE LUMINAIRE MOUNTING DEVICE.
- (6) THE POLE, NEAR THE BASE, SHALL HAVE A HANDHOLE OPENING 10" WIDE BY 20" HIGH TO RECEIVE THE MOUNTING HEAD LOWERING MECHANISM. HANDHOLE MUST BE OVAL IN SHAPE.
  - (A) THE OPENING SHALL BE REINFORCED ON THE INSIDE WITH A STEEL SLEEVE. THE SLEEVE SHALL HAVE SUFFICIENT THICKNESS AND LENGTH TO REPLACE THE EQUIVALENT STRENGTH OF THE TUBE SECTION LOST BY THE 10" BY 20" OPENING.
  - (B) A MOUNTING PLATE FOR ATTACHING THE LOWERING MECHANISM SHALL BE ATTACHED TO THE REINFORCING SLEEVE AND BE ACCESSIBLE THROUGH THE HANDHOLE.
  - (C) EACH POLE SHALL HAVE A HANDHOLE COVER, ATTACHED BY FOUR STAINLESS HEX BOLTS.
- (7) EACH POLE SHALL BE PROVIDED WITH A MEANS FOR GROUNDING CONSISTING OF A 1/2" UNC-2 NUT WELDED TO THE INSIDE OF THE POLE.

- (8) ONLY QUALIFIED MANUFACTURERS WILL MANUFACTURE THE SPECIFIED POLES. RESPONSIBILITY FOR COMPLIANCE WITH THE SPECIFICATIONS REMAINS WITH THE CONTRACTOR. MANUFACTURER WILL SUPPLY A CERTIFICATE OF COMPLIANCE TO SPECIFICATION BY AN INDEPENDENT TESTING LABORATORY HIRED BY THE MANUFACTURER AND APPROVED BY THE STATE.

## HIGH MAST LUMINAIRE LOWERING SYSTEM

- (9) THE LOWERING SYSTEM SHALL CONSIST OF A HEAD FRAME, A LUMINAIRE RING, AND A WINCH AND HOISTING ASSEMBLY. THE HEAD FRAME SHALL BE GALVANIZED STEEL CONSTRUCTION AND SHALL ATTACH TO THE POLE BY MEANS OF A SLIP-FITTER AND SET SCREWS. THE HEAD FRAME SHALL BE EQUIPPED WITH SIX CABLE SHEAVES GROOVED TO THE EXACT DIAMETER OF HOIST CABLES. THE HOIST CABLES SHALL BE STAINLESS STEEL, 7 X 18 STRANDED AIRCRAFT CABLES, 3/16" DIAMETER.
- (10) A POWER CABLE SHEAVE SHALL BE PROVIDED AND SHALL BE EQUIPPED WITH "KEEPER" DEVICES TO PREVENT THE CABLE FROM JUMPING THE GROOVE DURING OPERATION.
- (11) THREE LATCHING DEVICES SHALL BE PROVIDED IN THE HEAD FRAME TO SUPPOR THE LUMINAIRE RING ASSEMBLY WHEN THE LOWERING DEVICE IS NOT IN OPERATION. THE LATCHES SHALL ALTERNATIVELY LATCH AND UNLATCH UPON SUCCESSIVE ACTUATIONS OF RAISING THE LUMINAIRE RING. EACH LATCH SHALL BE EQUIPPED WITH A FLAG TO INDICATE THE LATCHED-UNLATCHED POSITIONS. ALL COMPONENTS OF THE LATCH MECHANISM MUST BE SERVICEABLE FROM THE GROUND WHEN THE RING IS LOWERED. A BOTTOM LATCHING DEVICE IS NOT ACCEPTABLE.
- (12) THE LUMINAIRE RING SHALL BE GALVANIZED STEEL CHANNEL CONSTRUCTION WITH 2" NPS GALVANIZED PIPE MOUNTING ARMS FOR LUMINAIRES. THE RING SHALL BE PREWIRED WITH TYPE ST. 105 DEGREE C, 600V CABLE TO A MAIN TERMINAL BLOCK MOUNTED WITHIN A WEATHERPROOF HOUSING. A WEATHERTIGHT TWISTLOCK POWER PLUG AND RECEPTACLE, NEMA L8-20R CONFIGURATION, SHALL BE PROVIDED ON THE RING FOR TESTING THE LUMINAIRES WHILE IN THE LOWERED POSITION.
- (13) WHERE LUMINAIRES ARE PLACED ON ONE SIDE OF THE RING ONLY, A COUNTER-BALANCING DEVICE OR DEVICES SHALL BE FURNISHED AND INSTALLED TO ENSURE EVEN WEIGHT DISTRIBUTION AROUND THE RING AND PROPER OPERATION OF THE RING DURING RAISING AND LOWERING.
- (14) THE WINCH SHALL BE WORM GEAR, SELF-LOCKING TYPE, DESIGNED FOR HAND OPERATION OR FOR OPERATION BY A 1/2" HEAVY DUTY REVERSING DRILL MOTOR. TWO (2) PORTABLE HARD CRANKS SHALL BE FURNISHED TO THE ENGINEER.
- (15) ONE COMPLETE ASSEMBLY OF A PORTABLE POWER UNIT CONSISTING OF A 1/2" HEAVY DUTY REVERSING DRILL MOTOR, A TORQUE-LIMITING SLIP CLUTCH, REMOVEABLE CONTROL UNIT WITH A MINIMUM 25' CORD (AS REQUIRED BY THE UTILITY) SHALL RUN AT 480 VOLTS FOR THE WINCH DRIVE.
- (16) A 1/4" STAINLESS STEEL 7 X 19 AIRCRAFT CABLE SHALL BE PROVIDED ON THE WINCH. A NON-AUTOMATIC CIRCUIT BREAKER DISCONNECT AND A MATCHING NEMA L8-20P PLUG AND RECEPTACLE SHALL BE FURNISHED IN THE BASE OF A POLE.
- (17) THE NEMA L8-20P PLUG SHALL BE A FOUR PRONG PLUG (3-HOT LEGS, 1-NEUTRAL AND 1-GROUND) RATED AT 60A. THE PLUG SHALL HANDLE THE MAXIMUM POSSIBLE LOAD (12 – 1130W LUMINAIRE SYSTEM, WITH EACH LIGHT WIRED TO THREE PHASES ALTERNATING BETWEEN PHASES A, B, AND C.
- (18) ACCEPTABLE LOWERING DEVICES ARE MANUFACTURED BY GENERAL ELECTRIC, HOLOPHANE, MILLERBERND, EAGLE, AND QUALITY LIGHTING.
- (19) ALL HIGH MAST COMPONENTS INCLUDED IN THIS SPECIFICATION SHALL BE INCLUDED FOR PAYMENT UNDER THE BID ITEM COST FOR THE HIGH MAST POLE.
- (20) THE DRILL MOTOR CORD SHALL BE A MINIMUM OF 25 TO 30FT LONG. CONTRACTOR TO ENSURE THE CORD IS LONG ENOUGH FOR OPERATOR SAFETY.

# SPECIAL NOTES

## LIGHTING

- (1) ALL STANDARD (OFFSET) LIGHT POLES SHALL BE POWDER COATED BLACK.
- (2) STANDARDS SHALL BE DESIGNED BY CONTRACTOR IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, FIRST EDITION (2015 AND THE UPDATED REVISIONS) THAT REQUIRE THE BASIC WIND SPEED SHALL BE 120 MPH FOR EXTREME 1 LIMIT STATE (SEE SP700SIG) AND SHALL SUPPORT A 62-POUND LUMINAIRE.
- (3) FOR DIRECTIONAL BORING, USE ONLY POLYETHYLENE PIPE. NO SEAMS ARE PERMITTED. CONTRACTOR SHALL USE POLYETHYLENE PIPE ADHESIVE AT JUNCTIONS.
- (4) POLES MAY BE ADJUSTED UP TO 5 FEET TO AVOID CONFLICTS WITH OTHER UTILITIES, DRIVEWAYS, ETC. ANY ADJUSTMENT GREATER THAN 5 FEET SHALL BE APPROVED BY THE ENGINEER.
- (5) INSTALLATION OF LEAD-IN POWER TO THE LIGHTING SERVICE WILL BE PAID FOR BY THE CONTRACTOR AND INSTALLED BY THE ASSOCIATED UTILITY OWNER.
- (6) ALL CONDUITS TO BE INSTALLED UNDER DRIVEWAYS NOT SHOWN AS BORED ARE TO BE SAW CUT.
- (7) ALL HIGH MAST LUMINAIRES ARE TO BE INSTALLED ROTATED TOWARD THE ADJACENT TDOT ROADWAY FACILITY (RAMP OR MAINLINE).

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	1A2
PLAN-IN-HAND	2025	95I040-S3-011	1A2
PS&E	2026	95I040-S3-011	1A2

SEALED BY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

LIGHTING  
SPECIAL  
NOTES

# ENVIRONMENTAL NOTES

## SUBSECTION 1 – ENVIRONMENTAL GENERAL NOTES

### ENVIRONMENTAL GENERAL NOTES

#### NATURAL RESOURCES

- (1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- (2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.
- (3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.
- (4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.
- (5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.
- (6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.
- (7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.
- (8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.
- (9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

#### SPECIES

- (10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.
- (11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND

EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

- (12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

#### PERMITS, PLANS & RECORDS

- (13) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).
- (14) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT RESPONSIBLE PARTY. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.
- (15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.
- (16) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.
- (17) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BRIEF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

#### SUPPORT ACTIVITIES

- (18) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

#### ENVIRONMENTAL

- (20) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

## SUBSECTION 2 – ENVIRONMENTAL SPECIAL NOTES

### ENVIRONMENTAL SPECIAL NOTES

#### ENVIRONMENTAL

- (1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

#### ECOLOGY

- (2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRECONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.
- (3) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.
- (4) ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

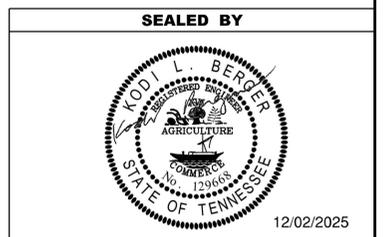
#### PROJECT COMMITMENTS

- (5) SEE PROJECT COMMITMENTS, SHEET 1B, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

#### SCOPE OF WORK

- (6) THE WORK IN THIS PROJECT INCLUDES ADDING LIGHTING ALONG THE I-40 CORRIDOR LEADING UP TO, AROUND, AND AFTER THE INTERCHANGE OF I-40 AT GOLDEN BEAR/BECKWITH ROAD. THIS INCLUDES INSTALL.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	13
PLAN-IN-HAND	2025	95I040-S3-011	1A3
PS&E	2026	95I040-S3-011	1A3

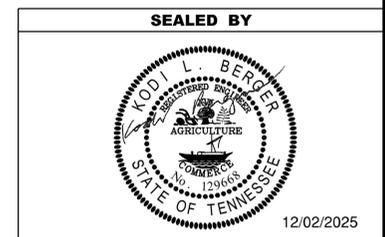


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL  
NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	1B
PLAN-IN-HAND	2025	95I040-S3-011	1B
PS&E	2026	95I040-S3-011	1B

PROJECT COMMITMENTS			
COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDECOO1	ENVIRONMENTAL DIVISION, ECOLOGY	TDOT COMMITS TO PERFORM ALL TREE CLEARING DURING THE WINTER SEASON BETWEEN OCTOBER 1ST AND MARCH 31ST.	ALL AREAS WITHIN PROJECT FOOTPRINT
EDECOO2	ENVIRONMENTAL DIVISION, ECOLOGY	CLIFF SWALLOW AND BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) WILL NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS MAY BE REMOVED OR DESTROYED, AND MEASURES MAY BE IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (E.G. CLOSING OFF AREA USING NETTING).	ALL AREAS WITHIN PROJECT FOOTPRINT



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**PROJECT  
COMMITMENTS**

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 951040-S3-011
11	105-01 CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	22
7	209-08.02 TEMPORARY SILT FENCE (WITH BACKING)	L.F.	18,000
	621-03.01 15" TEMPORARY DRAINAGE PIPE	L.F.	200
7	707-08.11 HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	7,200
	709-05.05 MACHINED RIP-RAP (CLASS A-3)	TON	65
9	712-01 TRAFFIC CONTROL	LS	1
	712-06 SIGNS (CONSTRUCTION)	S.F.	928
	712-08.03 ARROW BOARD (TYPE C)	EACH	2
1	714-03 JACKED OR BORED CONDUIT	L.F.	1,486
	714-03.01 DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	15,418
	714-04.02 CONDUIT (STRUCTURES - 2" RGS)	L.F.	403
	714-05.04 PULL BOXES (TYPE C)	EACH	48
	714-06.04 CABLE (1/C #8 AWG)	L.F.	22,239
2	714-06.05 CABLE (1/C #6 AWG)	L.F.	37,363
	714-06.06 CABLE (1/C #4 AWG)	L.F.	5,000
10	714-08.09 LIGHT STANDARDS (45' M.H.)	EACH	36
	714-08.10 LIGHT STANDARDS (HIGH MAST - 120' M.H.)	EACH	6
3	714-08.27 FOUNDATION FOR LIGHT STANDARDS - HIGH MAST (120' M.H.)	EACH	6
4	714-08.28 FOUNDATION FOR LIGHT STANDARDS - ROADWAY (45-50' STANDARD)	EACH	36
5	714-09.47 LED LUMINAIRES (155 WATT LED FOR OFFSET POLES)	EACH	36
5	714-09.83 LED LUMINAIRES-UNDERPASS (72 WATT)	EACH	4
5	714-09.64 LED LUMINAIRES-HIGH MAST (8 LUMINAIRES @45 DEGREES, 295W)	EACH	5
5	714-09.65 LED LUMINAIRES-HIGH MAST (6 LUMINAIRES @60 DEGREES, 295W)	EACH	1
	714-12.01 CONTROL CENTER (NO. 1)	L.S.	1
	714-12.02 CONTROL CENTER (NO. 2)	L.S.	1
6	714-25.01 ELECTRICAL CONNECTION (CONTROL CENTER NO. 1)	L.S.	1
6	714-25.02 ELECTRICAL CONNECTION (CONTROL CENTER NO. 2)	L.S.	1
	717-01 MOBILIZATION	L.S.	1
	740-10.03 GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	344
7	801-01.07 TEMPORARY SEEDING (WITH MULCH)	UNIT	9
8	801-03 WATER (SEEDING & SODDING)	M.G.	1
	803-01 SODDING (NEW SOD)	S.Y.	1,000

SUMMARY OF QUANTITIES					
ITEM NO. 712-06					
M.U.T.C.D. SIGN NO.	LEGEND	SIZE (INCHES)	S.F.	QUANTITY	ITEM NO. (S.F.)
G20-2	SIGNS (END ROAD WORK)	48" X 24"	8	6	48
W20-1	SIGNS (ROAD WORK AHEAD)	48" X 48"	16	6	96
W20-1	SIGNS (ROAD WORK 1 MILE)	48" X 48"	16	6	96
W20-1	SIGNS (ROAD WORK 1/2 MILE)	48" X 48"	16	6	96
W20-1	SIGNS (ROAD WORK 1000 FEET)	48" X 48"	16	6	96
W21-5B	SIGNS (LEFT SHOULDER CLOSED AHEAD)	48" X 48"	16	4	64
W21-5B	SIGNS (RIGHT SHOULDER CLOSED AHEAD)	48" X 48"	16	4	64
W21-5	SIGNS (LEFT SHOULDER CLOSED)	48" X 48"	16	4	64
W21-5	SIGNS (RIGHT SHOULDER CLOSED)	48" X 48"	16	4	64
W20-5L/R	SIGNS (LEFT/RIGHT LANE CLOSED AHEAD)	48" X 48"	16	2	32
W4-2L/R	SIGNS (MERGE LEFT/RIGHT)	48" X 48"	16	2	32
W20-5L/R	SIGNS (2 LEFT/RIGHT LANES CLOSED AHEAD)	48" X 48"	16	2	32
W9-3L/R	SIGNS (LANE SHIFT)	48" X 48"	16	2	32
R4-9	SIGNS (STAY IN LANE)	36" X 48"	12	2	24
W12-1	SIGNS (DOUBLE ARROW)	48" X 48"	16	1	16
W4-1R	SIGNS (MERGE)	48" X 48"	16	1	16
R1-2	SIGNS (YIELD)	48" X 48"	16	1	16
W3-2	SIGNS (YIELD AHEAD)	48" X 48"	16	1	16
E5-2	SIGNS (EXIT OPEN)	48" X 36"	12	2	24
<b>TOTAL</b>					<b>928</b>

ITEM 712-06, SIGNS (CONSTRUCTION), INCLUDES SIGNS SHOWN WHICH ARE CONSIDERED A MINIMUM. ADDITIONAL SIGNS MAY BE REQUIRED BY THE ENGINEER AND WILL BE PAID FOR AT THE UNIT PRICE BID ITEM FOR 712-06.

SIGNS SHALL BE LOCATED BY THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER.

CONSTRUCTION SIGNING AND TRAFFIC CONTROL SHALL CONFORM TO PART IV OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND SECTION 712 OF THE TENNESSEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."

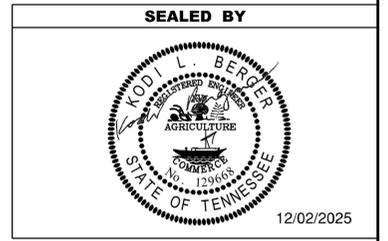
CONTRACTOR IS NOT RELIEVED OF ANY RESPONSIBILITY TO PROVIDE ADEQUATE AND SAFE TRAFFIC CONTROL MEASURES BY THE ABOVE.

IN THE EVENT THAT CLEARING A GRUBBING IS REQUIRED FOR THE PROJECT, THIS WORK IS TO BE BUILT INTO THE BID UNDER EXISTING ITEMS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	951040-S1-011	2
PLAN-IN-HAND	2025	951040-S3-011	2
PS&E	2026	951040-S3-011	2

**PAY ITEM FOOTNOTES**

- (1) DIRECTIONAL BORING ONLY.
- (2) #6 AWG CONDUCTORS TO BE INSTALLED AS GROUND CONDUCTOR FOR ALL CIRCUITS.
- (3) HIGH MAST FOUNDATIONS TO BE DESIGNED BY CONTRACTOR. SEE STANDARD DRAWING T-L-1.
- (4) SEE STANDARD DRAWING T-L-1.
- (5) FIXTURES SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATIONS:
  - HIGH MAST FIXTURES: HOLOPHANE HMLD4 P3 40K MVOLT HGR AW PR7 SH
  - OFFSET FIXTURES: HOLOPHANE MGLEDM P3 40K MVOLT WG VH BKSD PR7 SH NL
  - UNDERPASS FIXTURES: W4GLED 20C1000 40K T3M MVOLT SPD GYSPD PR7 LWG
 CONTRACTOR TO SUBMIT FIXTURE ORDERING INFORMATION TO ENGINEER FOR APPROVAL PRIOR TO ORDERING.
- (6) ELECTRICAL CONNECTION TO BE PROVIDED AS FOLLOWS:
  - MIDDLE TENNESSEE ELECTRIC
  - CONTACT: BRAD TRICE
  - OFFICE PHONE: 615-453-3078
  - EMAIL: BRADTRICE@MTE.COM
 ELECTRICAL CONNECTION TO INCLUDE:
  - ELECTRICAL SERVICE (120/240V, SIZED AS PER PLANS)
  - COORDINATION WITH AND PAYMENT TO UTILITY COMPANY FOR CONNECTION FROM METER TO OVERHEAD POWER
- (7) ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER. SEE SECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- (8) INCLUDES ONE (1) THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
- (9) INCLUDES THE COST OF ALL EQUIPMENT, LABOR AND MATERIALS, TRAFFIC CONES/DRUMS, BARRIERS, PAVEMENT MARKINGS, AND PAVEMENT MARKING REMOVAL, AND ANY OTHER TRAFFIC CONTROL ITEMS NOT LISTED AS REQUIRED UNTIL PROJECT COMPLETION. THIS INCLUDES ANY NIGHTTIME LANE CLOSURES NECESSARY ON I-40 TO TDOT STANDARDS AND SPECIFICATIONS INCLUDING QUEUE TRUCKS, ARROW BOARDS, ETC.
- (10) ALL STANDARD (OFFSET) LIGHT POLES SHALL BE POWDER COATED BLACK.
- (11) CONSTRUCTION STAKING TO INCLUDE STAKING OF LAYDOWN YARD LIMITS.



**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

**ESTIMATED QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	3
PLAN-IN-HAND	2025	95I040-S3-011	3
PS&E	2026	95I040-S3-011	3

## UTILITY

- (1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- (2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

## UTILITY OWNERS

POWER:  
MIDDLE TENNESSEE ELECTRIC  
201 MADDOX-SIMPSON PKWY  
BRAD TRICE  
[BRADTRICE@MTE.COM](mailto:BRADTRICE@MTE.COM)  
615-453-3078

TENNESSEE VALLEY AUTHORITY  
1101 MARKET STREET, MR-4G  
CHATTANOOGA, TN 37402  
STEPHEN WILLIAMS  
[SEWILLIAMS@TVA.GOV](mailto:SEWILLIAMS@TVA.GOV)  
O: 662-255-6272

WATER:  
WEST WILSON UTILITY DISTRICT  
10960 LEBANON ROAD  
MT. JULIET, TN 37122  
BRENT FINLEY  
[BRENTF@WESTWILSONUTILITY.COM](mailto:BRENTF@WESTWILSONUTILITY.COM)  
O: 615-754-1520  
C: 615-715-3340

SEWER:  
CITY OF MT. JULIET  
71 EAST HILL DRIVE  
MT. JULIET, TN 37122  
TIM FORKUM  
[TFORKUM@MTJULIET-TN.GOV](mailto:TFORKUM@MTJULIET-TN.GOV)  
O: 615-773-7957

GAS:  
PIEDMONT GAS  
83 CENTURY BLVD  
NASHVILLE, TN 37214  
BRENNAN ANTHONY  
[BRENNAN.ANTHONY@DUKE-ENERGY.COM](mailto:BRENNAN.ANTHONY@DUKE-ENERGY.COM)  
C: 615-330-6568

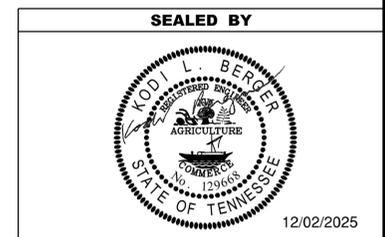
TELEPHONE:  
AT&T  
116 SOUTH CANNON AVE  
MURFREESBORO, TN 37129  
LEE KORNEGAY  
[KK4096@ATT.COM](mailto:KK4096@ATT.COM)  
O: 615-848-2082  
C: 615-631-7221

TDS TELECOM  
5265 MURFREESBORO ROAD  
LA VERGNE, TN 37086  
SEAN HARKINS  
[SEAN.HARKINS@TDSTELECOM.COM](mailto:SEAN.HARKINS@TDSTELECOM.COM)  
O: 615-793-1092  
C: 615-476-4628

FIBER OPTIC:  
XO COMMUNICATIONS (VERIZON)  
101 MOLLOY STREET, SUITE 300  
NASHVILLE, TN 37201  
DEREK DEE  
[DEREK.R.DEE@VERIZON.COM](mailto:DEREK.R.DEE@VERIZON.COM)  
C: 615-207-1297

CABLE TV:  
COMCAST  
660 MAINSTREAM DRIVE  
NASHVILLE, TN 37228  
KEVIN NIPPER  
[KEVINLEE\\_NIPPER@COMCAST.COM](mailto:KEVINLEE_NIPPER@COMCAST.COM)  
[NAS-NASHVILLECONSTRUCTIONBETTERMENTS@COMCAST.COM](mailto:NAS-NASHVILLECONSTRUCTIONBETTERMENTS@COMCAST.COM)  
C: 615-626-3325

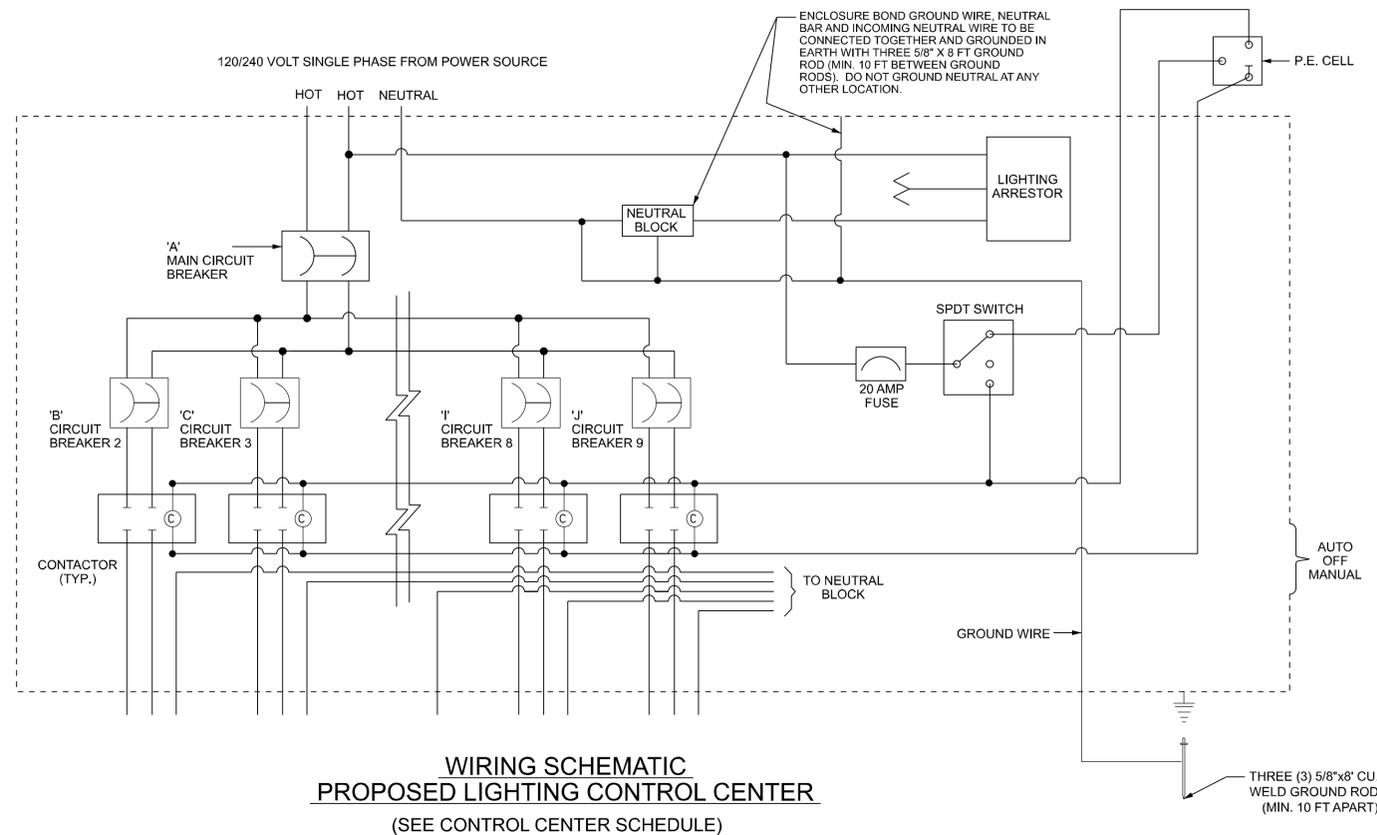
DISTURBED AREA	
DISTURBED AREA (ACRE)	0.999
PROJECT AREA (ACRE)	72.5



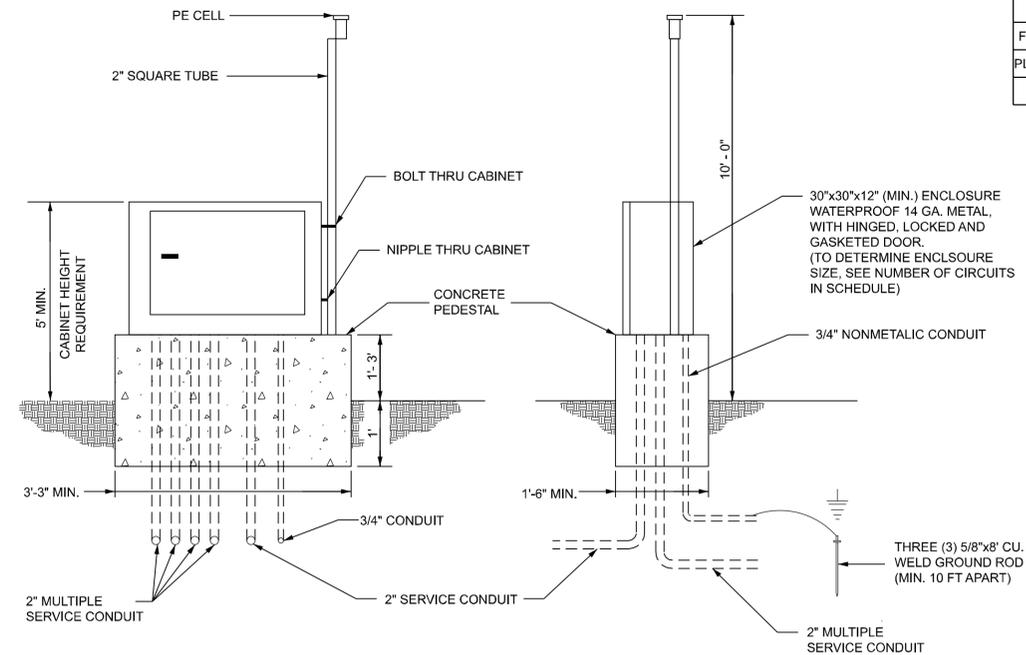
**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

UTILITY NOTES  
AND  
UTILITY OWNERS

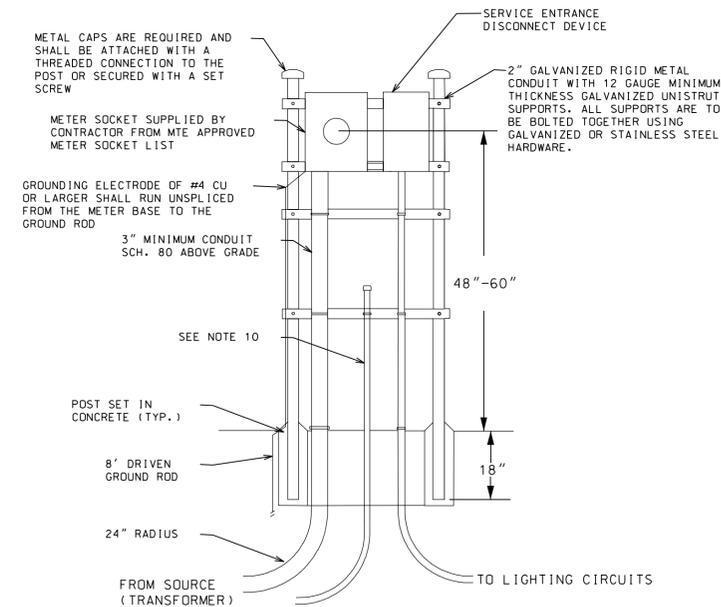
TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	4
PLAN-IN-HAND	2025	95I040-S3-011	4
PS&E	2026	95I040-S3-011	4



**WIRING SCHEMATIC  
PROPOSED LIGHTING CONTROL CENTER**  
(SEE CONTROL CENTER SCHEDULE)



**PAD MOUNTED CONTROLLER  
CONSTRUCTION DETAIL**



**H-STRUCTURE METER CENTER**

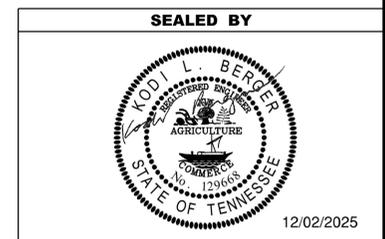
CONTROL CENTER SCHEDULE																			
CONTROL CENTER NO.	MAIN CIRCUIT BREAKER (AMPS) 'A'	BRANCH CIRCUIT BREAKERS (AMPS)								BASELINE	STATION	OFFSET (FT)	SIDE	SHEET NO.					
		CIR. 1 'B'	CIR. 2 'C'	CIR. 3 'D'	CIR. 4 'E'	CIR. 5 'F'	CIR. 6 'G'	CIR. 7 'H'	CIR. 8 'I'										
CC1	150	20	20	20	20	20	20	20	20	20	20	20	20	20	I-40	147+01.07	395.81	RT	8A
CC2	175	20	20	20	20	20	20	20	20	20	20	20	20	20	I-40	149+17.19	606.14	LT	8A

BRANCH CIRCUIT BREAKERS ARE 240V UNLESS OTHERWISE NOTED.

**NOTES**

- CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL AND INSTALLATION OTHER THAN THE FOLLOWING (TO BE FURNISHED AND INSTALLED BY MTE):  
A. CONDUIT UP THE SERVICE POLE, TO INCLUDE ALL RELATED HARDWARE.  
B. SERVICE CONDUCTOR FROM TRANSFORMER TO METER PEDESTAL.
- CONTRACTOR SHALL CONTACT MIDDLE TENNESSEE ELECTRIC (MTE), BRAD TRICE, (915) 453-3078 FOR EQUIPMENT REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE FINAL LOCATION OF CONTROL CENTERS AND METER CENTERS WITH MTE AND THE ENGINEER.
- CONTRACTOR SHALL INSTALL A DISCONNECT FOR EACH CONTROL CENTER AS DIRECTED BY THE ELECTRICAL SERVICE PROVIDER AND THE ENGINEER.
- THE CONTROL CABINET SHALL BE INSTALLED IN SUCH A MANNER AS TO MAINTAIN A STANDING WORKING HEIGHT. PERSONNEL WORKING ON THE CABINET SHALL BE ABLE TO WORK ON THE CABINET WHILE STANDING
- LEAD-IN CONDUIT FROM SERVICE POLE TO METER SHALL MEET THE FOLLOWING REQUIREMENTS:  
A. WHERE DITCH LENGTH WILL EXCEED 150 FEET, COORDINATE WITH MTE PRIOR TO OPENING DITCH.  
B. HAND-DIG DITCH WHEN WITHIN 5 FEET OF TRANSFORMER.  
C. DEPTH SUFFICIENT TO BED CONDUIT WITH SERVICE CONDUCTORS 24 IN. BELOW FINAL GRADE.  
D. BACKFILL AFTER INSPECTION BY MTE.
- CONTINUOUS RACEWAY FROM TRANSFORMER TO METER BASE SHALL MEET THE FOLLOWING REQUIREMENTS:  
A. CONDUIT SIZE SHALL BE 3 IN. WITH APPROPRIATE FITTINGS AND/OR BUSHINGS AS REQUIRED. FOR ALL CONDUIT CONNECTIONS USE LONG (6 IN. MIN.) INTEGRAL BELLED END CONDUIT.  
B. RACEWAY BELOW GRADE/BETWEEN ELBOWS SHALL BE SCHEDULE 40 OR SCHEDULE 80 ELECTRICAL PVC.  
C. ELBOWS SHALL BE SCHEDULE 80 ELECTRICAL PVC WITH A SWEEPING RADIUS OF 24 IN.  
D. CONDUIT EXTENDING FROM METER BASE TO ONE FOOT BELOW GRADE SHALL BE SCHEDULE 80 PVC.  
E. A POLYVINYL, NON ROT OR MILDEW PROOF PULL STRING WITH A MIN. BREAKING STRENGTH OF 200 POUNDS IS TO BE INSTALLED INSIDE THE RACEWAY.

- THE BOTTOM OF A WEATHERPROOF, UL LISTED, MULTI-CIRCUIT DISCONNECT SHALL BE LOCATED NO LESS THAN 2 FEET ABOVE GRADE.
- THE METER CENTER SHALL BE INSTALLED WITHIN 10 FEET OF THE SERVICE UTILITY POLE.
- INSTALL A 1 IN. COMMUNICATIONS CONDUIT AS INDICATED. STRAP CONDUIT TO FIRST CROSS MEMBER, INSTALL APPROPRIATE CAP ON CONDUIT.



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**CONTROL  
CENTER  
DETAILS**

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	5
PLAN-IN-HAND	2025	95I040-S3-011	5
PS&E	2026	95I040-S3-011	5

### ROADWAY LIGHT POLE SCHEDULE

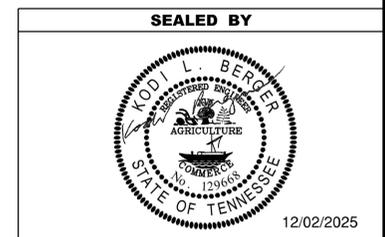
	LIGHT POLE NO.	SHEET NO.	MOUNTING HEIGHT (FT)	LUMINAIRE TYPE	LAMP WATTAGE (LED)	TILT (DEGREES)	NO. OF LUMINAIRES	VOLTAGE	CONTROL CENTER NO.	CIRCUIT NO.	BASE LINE	STATION	OFFSET (FT)	SIDE	NORTHING	EASTING
(1), (2)	LP 1	7A	45	A	155	15	1	240	CC1	1	I-40	127+85.79	77.5	RT	671510.4585	1831578.0158
(1), (2)	LP 2	7A	45	A	155	15	1	240	CC1	1	I-40	130+24.87	79.2	RT	671546.7940	1831814.3203
(1), (2)	LP 3	7A	45	A	155	15	1	240	CC1	1	I-40	132+63.77	88.9	RT	671575.2767	1832051.7182
(1), (2)	LP 4	7A	45	A	155	15	1	240	CC1	1	I-40	135+01.36	89.4	RT	671612.5407	1832286.3651
(1), (2)	LP 5	8A	45	A	155	15	1	240	CC1	1	I-40	137+52.73	89.6	RT	671652.3207	1832534.5712
(1)	LP 6	8A	45	A	155	15	1	240	CC1	1	I-40	139+94.60	113.9	RT	671666.8776	1832777.2151
(1)	LP 7	8A	45	A	155	15	1	240	CC1	2	GOLDEN BEAR GTWY	104+15.85	68.0	LT	671105.0700	1833688.6800
(1)	LP 8	8A	45	A	155	15	1	240	CC1	2	GOLDEN BEAR GTWY	105+88.54	52.0	RT	671270.1252	1833827.6356
(1)	LP 9	8A	45	A	155	15	1	240	CC1	2	GOLDEN BEAR GTWY	101+07.14	61.8	RT	670783.7000	1833803.7000
(1)	LP 10	8A	45	A	155	15	1	240	CC1	2	GOLDEN BEAR GTWY	102+87.70	64.0	RT	670966.3200	1833819.3000
(1)	LP 11	8A	45	A	155	15	1	240	CC1	2	RAMP C	35+78.97	21.0	RT	671102.6862	1833871.8095
(1)	LP 12	8A	45	A	155	15	1	240	CC1	2	RAMP C	37+28.66	21.0	RT	671179.9315	1833987.0388
(1)	LP 13	8A	45	A	155	15	1	240	CC1	2	RAMP C	39+05.15	21.1	RT	671249.5878	1834149.2005
(1)	LP 14	9A	45	A	155	15	1	240	CC1	3	I-40	164+29.42	99.0	RT	672068.8913	1835178.6612
(1)	LP 15	9A	45	A	155	15	1	240	CC1	3	I-40	166+66.78	93.8	RT	672111.8699	1835412.1552
(1)	LP 16	9A	45	A	155	15	1	240	CC1	3	I-40	169+06.45	93.3	RT	672150.4249	1835648.7094
(1)	LP 17	10A	45	A	155	15	1	240	CC1	3	I-40	171+48.78	93.0	RT	672189.2676	1835887.9057
(1)	LP 18	10A	45	A	155	15	1	240	CC1	3	I-40	173+88.54	93.8	RT	672227.6451	1836124.5741
(1), (2)	LP 19	10A	45	A	155	15	1	240	CC1	3	I-40	176+30.00	86.7	RT	672272.0833	1836361.9860
(1)	LP 20										NOT USED					
(1)	LP 21	7A	45	A	155	15	1	240	CC2	1	I-40	126+73.51	81.3	LT	671649.3924	1831441.8901
(1), (2)	LP 22	7A	45	A	155	15	1	240	CC2	1	I-40	129+12.02	85.9	LT	671691.8027	1831676.6443
(1), (2)	LP 23	7A	45	A	155	15	1	240	CC2	1	I-40	131+52.33	89.1	LT	671733.2674	1831913.3756
(1), (2)	LP 24	7A	45	A	155	15	1	240	CC2	1	I-40	133+92.70	89.0	LT	671771.3653	1832150.7105
(1)	LP 25	8A	45	A	155	15	1	240	CC2	1	I-40	136+33.58	93.1	LT	671813.7966	1832387.8559
(1)	LP 26	8A	45	A	155	15	1	240	CC2	1	I-40	138+73.89	93.0	LT	671851.9158	1832625.1283
(1)	LP 27	8A	45	A	155	15	1	240	CC2	2	GOLDEN BEAR GTWY	119+59.54	109.9	LT	672644.3231	1833682.7482
(1)	LP 28	11A	45	A	155	15	1	240	CC2	2	GOLDEN BEAR GTWY	121+24.37	67.6	LT	672808.7160	1833726.8045
(1)	LP 29	11A	45	A	155	15	1	240	CC2	2	GOLDEN BEAR GTWY	122+99.89	60.6	LT	672972.5300	1833720.8400
(1)	LP 30	8A	45	A	155	15	1	240	CC2	2	GOLDEN BEAR GTWY	119+32.04	52.5	RT	672615.1754	1833844.8743
(1)	LP 31	8A	45	A	155	15	1	240	CC2	2	GOLDEN BEAR GTWY	120+37.97	77.3	RT	672720.8449	1833870.7200
(1)	LP 32	9A	45	A	155	15	1	240	CC2	3	I-40	163+99.85	115.6	LT	672276.0428	1835115.3262
(1), (2)	LP 33	9A	45	A	155	15	1	240	CC2	3	I-40	166+13.57	88.1	LT	672282.9543	1835330.6922
(1)	LP 34	9A	45	A	155	15	1	240	CC2	3	I-40	168+40.01	93.6	LT	672324.3486	1835553.3765
(1)	LP 35	9A	45	A	155	15	1	240	CC2	3	I-40	170+70.91	93.5	LT	672361.0061	1835781.3465
(1)	LP 36	10A	45	A	155	15	1	240	CC2	3	I-40	173+05.22	85.0	LT	672389.8874	1836014.0329
(1)	LP 37	10A	45	A	155	15	1	240	CC2	3	I-40	175+36.44	81.2	LT	672422.9314	1836242.9119

### UNDERPASS LUMINAIRE SCHEDULE

	LIGHT POLE NO.	SHEET NO.	MOUNTING HEIGHT (FT)	LUMINAIRE TYPE	LAMP WATTAGE (LED)	TILT (DEGREES)	NO. OF LUMINAIRES	VOLTAGE	CONTROL CENTER NO.	CIRCUIT NO.	BASE LINE	STATION	OFFSET (FT)	SIDE	NORTHING	EASTING
	UPL 1	8A	15	C	72	NA	1	240	CC1	4	I-40	150+11.63	157.6	RT		BRIDGE ABUTMENT
	UPL 2	8A	15	C	72	NA	1	240	CC1	4	I-40	150+37.85	2.9	RT		BRIDGE PIER
	UPL 3	8A	15	C	72	NA	1	240	CC1	4	I-40	150+38.76	4.1	LT		BRIDGE PIER
	UPL 4	8A	15	C	72	NA	1	240	CC1	4	I-40	150+59.79	141.8	LT		BRIDGE ABUTMENT

A = PROPOSED LED OFFSET LUMINAIRE ON NEW ALUMINUM LIGHT STANDARD  
 B = PROPOSED LED HIGH MAST LUMINAIRE ON NEW HIGH MAST POLE  
 C = PROPOSED LED WALLPACK UNDERPASS LUMINAIRE

(1) POLE OFFSET IS CENTER OF POLE FOUNDATION.  
 (2) FRONT FACE OF POLE TO BE INSTALLED 4FT BEHIND GUARDRAIL.



**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**

**LIGHTING**  
**DETAILS**

POLE DATA AND CONDUIT SCHEDULE  
 (1 OF 2)

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	6
PLAN-IN-HAND	2025	95I040-S3-011	6
PS&E	2026	95I040-S3-011	6

### HIGH MAST POLE SCHEDULE

LIGHT POLE NO.	SHEET NO.	MOUNTING HEIGHT (FT)	LUMINAIRE TYPE	LAMP WATTAGE (LED)	NO. OF LUMINAIRES	VOLTAGE	CONTROL CENTER NO.	CIRCUIT NO.	BASE LINE	STATION	OFFSET (FT)	SIDE	NORTHING	EASTING
HM 1	8A	120	B	295	8	240	CC1	5	I-40	148+71.14	417.4	RT	671506.7010	1833690.8700
HM 2	8A	120	B	295	8	240	CC1	6	I-40	154+72.60	295.7	RT	671722.5365	1834265.3098
HM 3	8A	120	B	295	6	240	CC2	4	I-40	143+50.27	92.5	LT	671927.1641	1833095.5266
HM 4	8A	120	B	295	8	240	CC2	5	I-40	149+61.01	142.3	LT	672073.4970	1833690.5660
HM 5	8A	120	B	295	8	240	CC2	6	I-40	153+91.44	390.3	LT	672386.8610	1834076.0440
(2) HM 6	8A	120	B	295	8	240	CC2	7	I-40	159+35.67	82.1	LT	672169.1960	1834662.3760

- A = PROPOSED LED OFFSET LUMINAIRE ON NEW ALUMINUM LIGHT STANDARD  
 B = PROPOSED LED HIGH MAST LUMINAIRE ON NEW HIGH MAST POLE  
 C = PROPOSED LED WALLPACK UNDERPASS LUMINAIRE

- (1) POLE OFFSET IS CENTER OF POLE FOUNDATION.  
 (2) FRONT FACE OF POLE TO BE INSTALLED 4FT BEHIND GUARDRAIL.

TYPE	MANUFACTURER	CATALOGUE NUMBER	DESCRIPTION	WATTAGE
A	HOLOPHANE	MGLEDM P3 40K MVOLT WG VH BKSD PR7 SH NL	OFFSET	155
B	HOLOPHANE	HMLEd4 P3 40K MVOLT HGR AW PR7 SH	HIGH MAST	295
C	HOLOPHANE	W4GLEd 20C1000 40K T3M MVOLT SPD GYSDP PR7 LWG	WALLPAK	72

#### CONDUIT AND CONDUCTOR SCHEDULE

CONDUCTOR RUN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
CONDUIT SIZE	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	
CONDUIT TYPE	P	H	P	H	P	H	P	P	H	P	H	P	H	P	H	R	
AWG	#4	1C	3	3	3	3	-	-	-	-	3	3	-	-	-	-	
	#6	1C	4	4	2	2	5	5	3	5	5	-	-	3	3	1	1
	#8	1C	8	8	2	2	4	4	2	-	-	-	-	-	2	2	2

- P - PVC CONDUIT  
 H - HDPE BORED CONDUIT (DIRECT BURIAL SCH. 80 PVC MAY BE USED AS AN ALTERNATIVE)  
 R - SURFACE MOUNTED RIGID GALVANIZED STEEL (RGS) CONDUIT  
 \* - STANDARD GROUNDING CONDUCTORS ARE #6 AWG

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12/02/2025

**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

LIGHTING  
DETAILS

POLE DATA AND CONDUIT SCHEDULE  
(2 OF 2)

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	7
PLAN-IN-HAND	2025	95I040-S3-011	7
PS&E	2026	95I040-S3-011	7



BEGIN PROJECT NO. 95I040-S1-011 R.O.W.

STA. 126+73.51 I-40  
N 671569.0991 E 1831454.8297

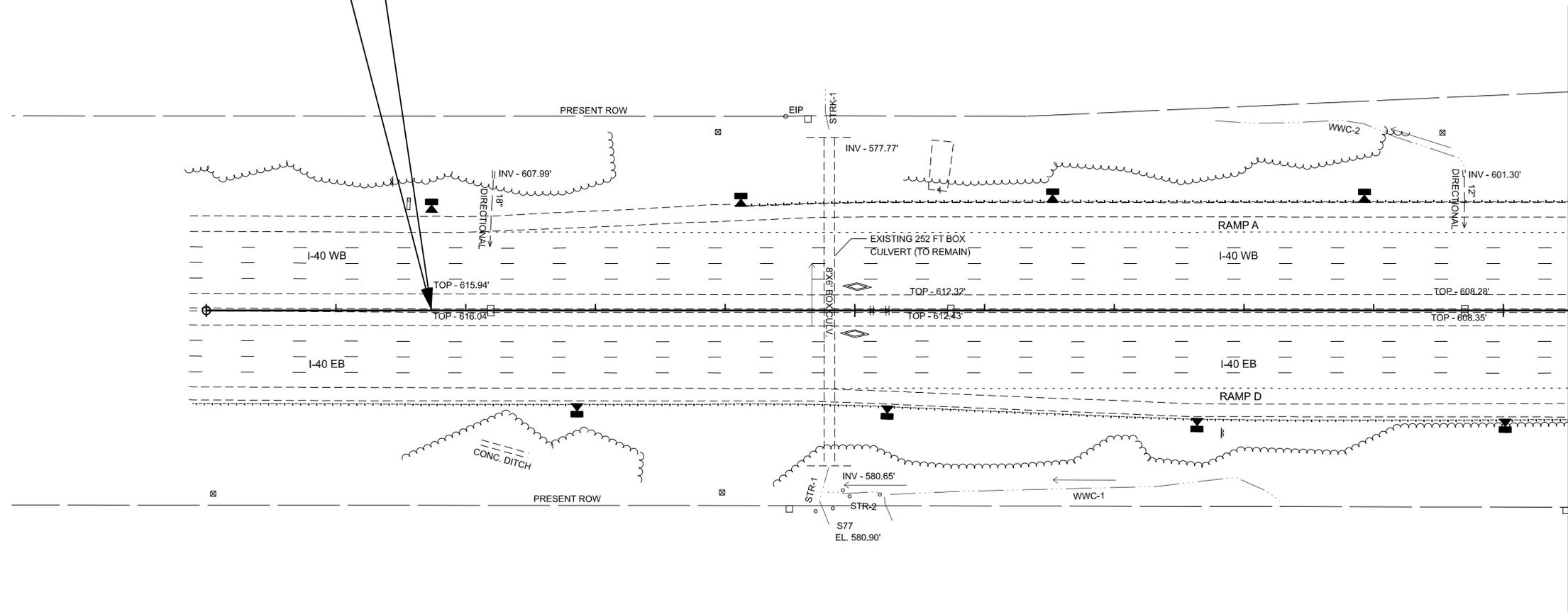
BEGIN PROJECT NO. 95I040-S3-011 CONST.

STA. 126+73.51 I-40  
N 671569.0991 E 1831454.8297

125

130

135



LEGEND

-  PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD  
(155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE  
(295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
-  PROPOSED LED WALLPACK UNDERPASS LUMINAIRE  
(72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)

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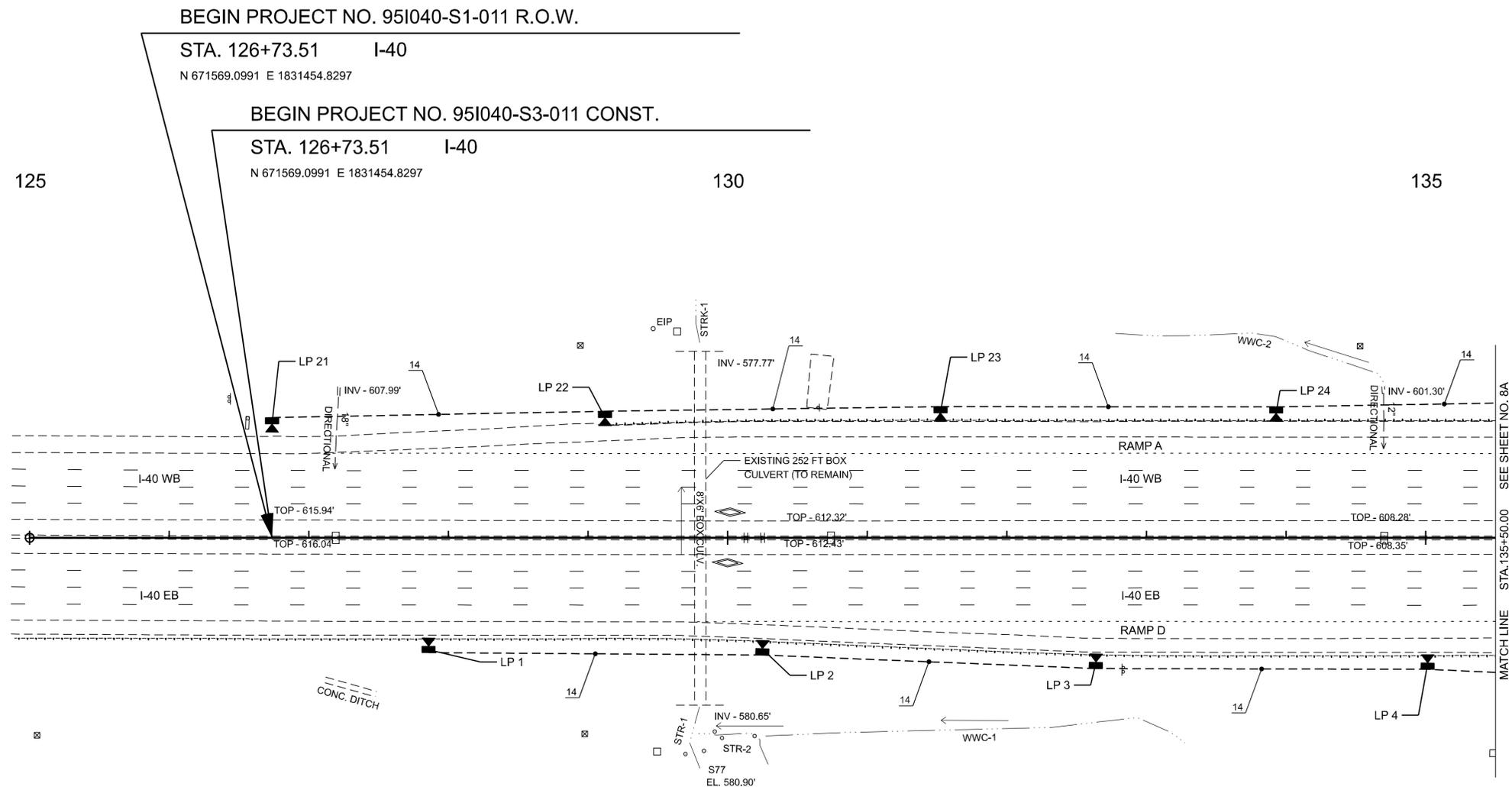
COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18, OBTAINED ON 10-18-2023.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

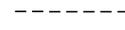
PRESENT  
LAYOUT

STA. 125+00.00 TO STA. 135+50.00  
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	7A
PLAN-IN-HAND	2025	95I040-S3-011	7A
PS&E	2026	95I040-S3-011	7A



LEGEND

-  PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD (155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE (295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
-  PROPOSED LED WALLPACK UNDERPASS LUMINAIRE (72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LIGHTING CONTROL CENTER (SINGLE PHASE 120/240V)
-  PROPOSED PULL BOX (TYPE C)
-  PROPOSED TRENCHED CONDUIT
-  PROPOSED DIRECTIONAL DRILL CONDUIT
-  PROPOSED LIGHTING CIRCUIT RUN

CONSTRUCTION NOTES

- (1) THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-1 OR STR-2, AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.
- (2) LAYDOWN YARD IS TO BE STAKED PER ENVIRONMENTAL REQUIREMENTS. TOTAL DISTURBED AREA FOR ALL WORK INCLUDING LAYDOWN YARD SHALL NOT EXCEED 1 ACRE.

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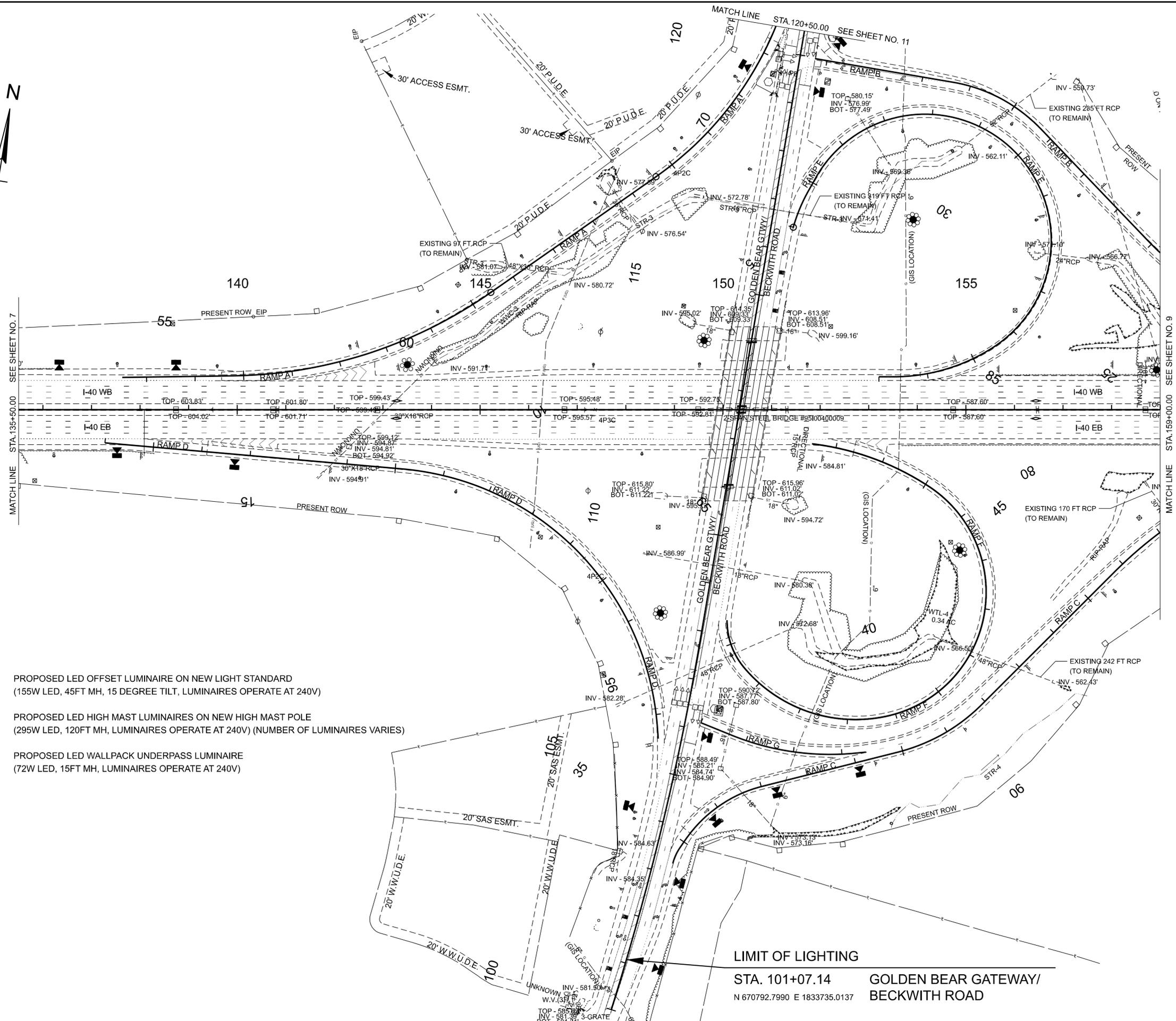
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STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION

PROPOSED  
 LAYOUT

STA. 125+00.00 TO STA. 135+50.00  
 SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	8
PLAN-IN-HAND	2025	95I040-S3-011	8
PS&E	2026	95I040-S3-011	8



- LEGEND**
-  PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD  
(155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
  -  PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE  
(295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
  -  PROPOSED LED WALLPACK UNDERPASS LUMINAIRE  
(72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)

**LIMIT OF LIGHTING**  
 STA. 101+07.14 GOLDEN BEAR GATEWAY/  
 N 670792.7990 E 1833735.0137 BECKWITH ROAD

**SEALED BY**



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COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18, OBTAINED ON 10-18-2023.

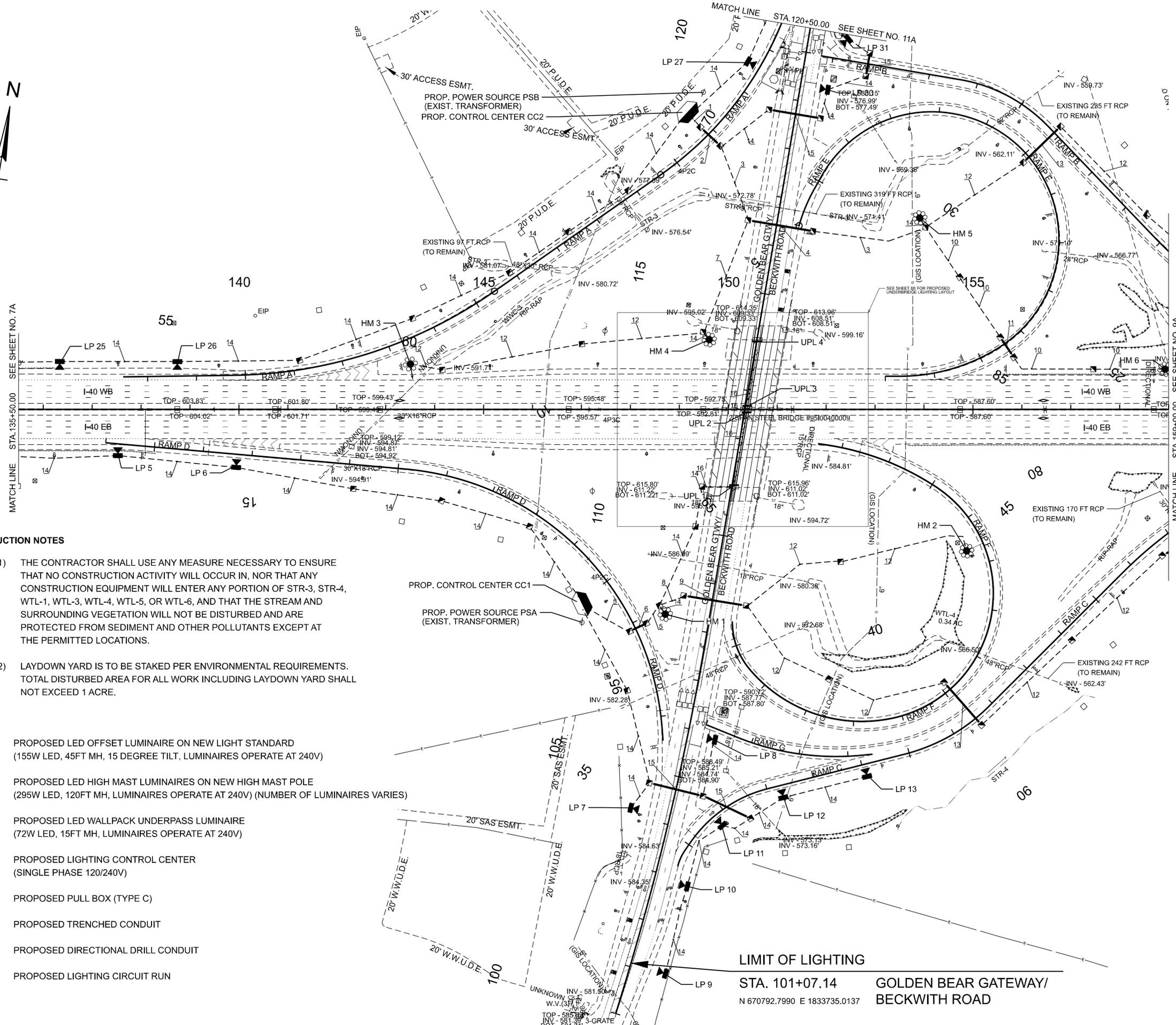
**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**PRESENT  
LAYOUT**

STA. 135+50.00 TO STA. 159+00.00  
SCALE: 1" = 100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	8A
PLAN-IN-HAND	2025	95I040-S3-011	8A
PS&E	2026	95I040-S3-011	8A



**CONSTRUCTION NOTES**

- THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-3, STR-4, WTL-1, WTL-3, WTL-4, WTL-5, OR WTL-6, AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.
- LAYDOWN YARD IS TO BE STAKED PER ENVIRONMENTAL REQUIREMENTS. TOTAL DISTURBED AREA FOR ALL WORK INCLUDING LAYDOWN YARD SHALL NOT EXCEED 1 ACRE.

**LEGEND**

- PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD (155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
- PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE (295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
- PROPOSED LED WALLPACK UNDERPASS LUMINAIRE (72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)
- PROPOSED LIGHTING CONTROL CENTER (SINGLE PHASE 120/240V)
- PROPOSED PULL BOX (TYPE C)
- PROPOSED TRENCHED CONDUIT
- PROPOSED DIRECTIONAL DRILL CONDUIT
- PROPOSED LIGHTING CIRCUIT RUN

**LIMIT OF LIGHTING**

STA. 101+07.14 GOLDEN BEAR GATEWAY/  
N 670792.7990 E 1833735.0137 BECKWITH ROAD

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

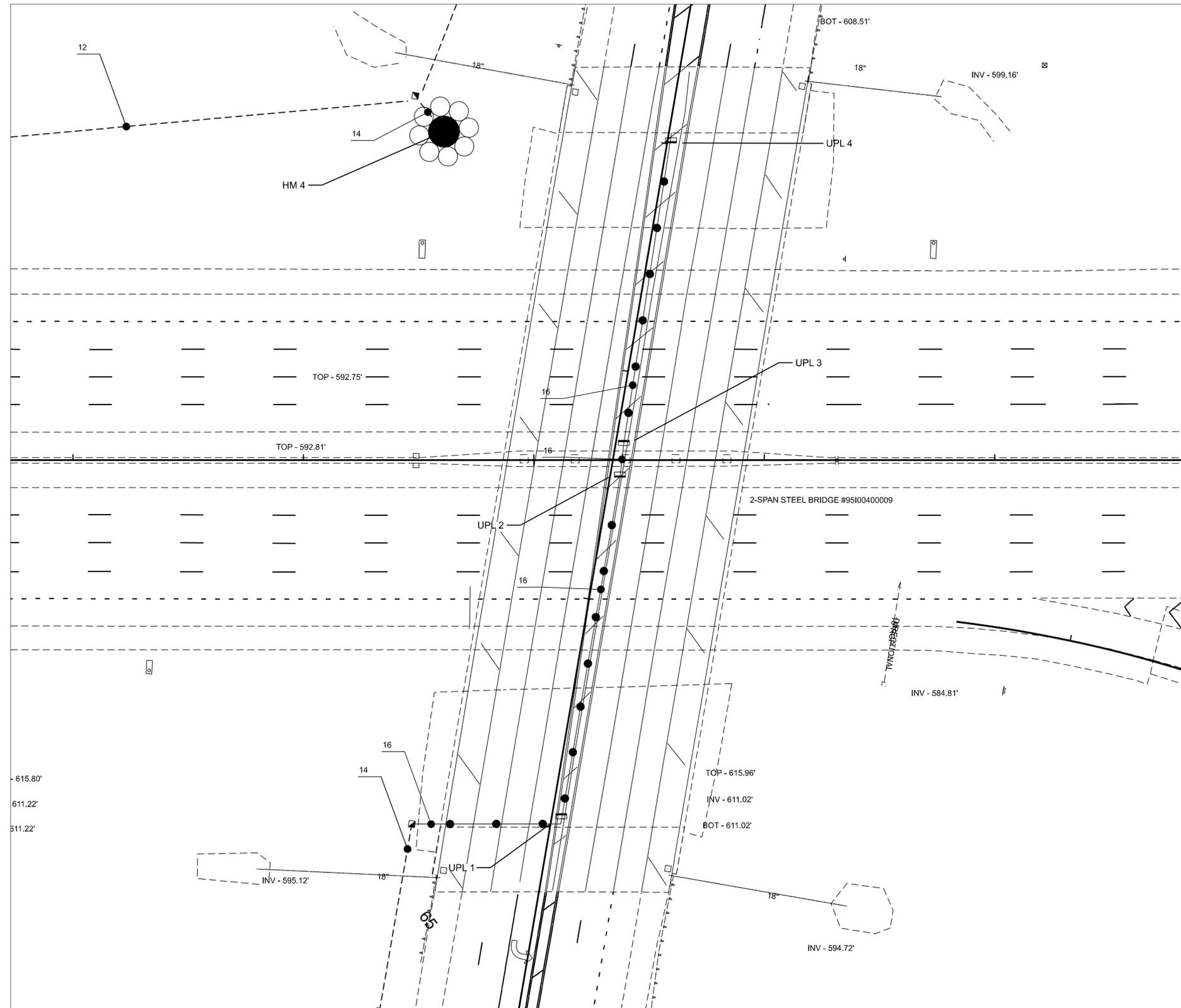
**PROPOSED LAYOUT**

STA. 135+50.00 TO STA. 159+00.00  
SCALE: 1" = 100'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PLAN-IN-HAND	2025	95I040-S3-011	8B
PS&E	2026	95I040-S3-011	8B

# PROPOSED UNDER BRIDGE LIGHTING LAYOUT



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**SEALED BY**

12/02/2025

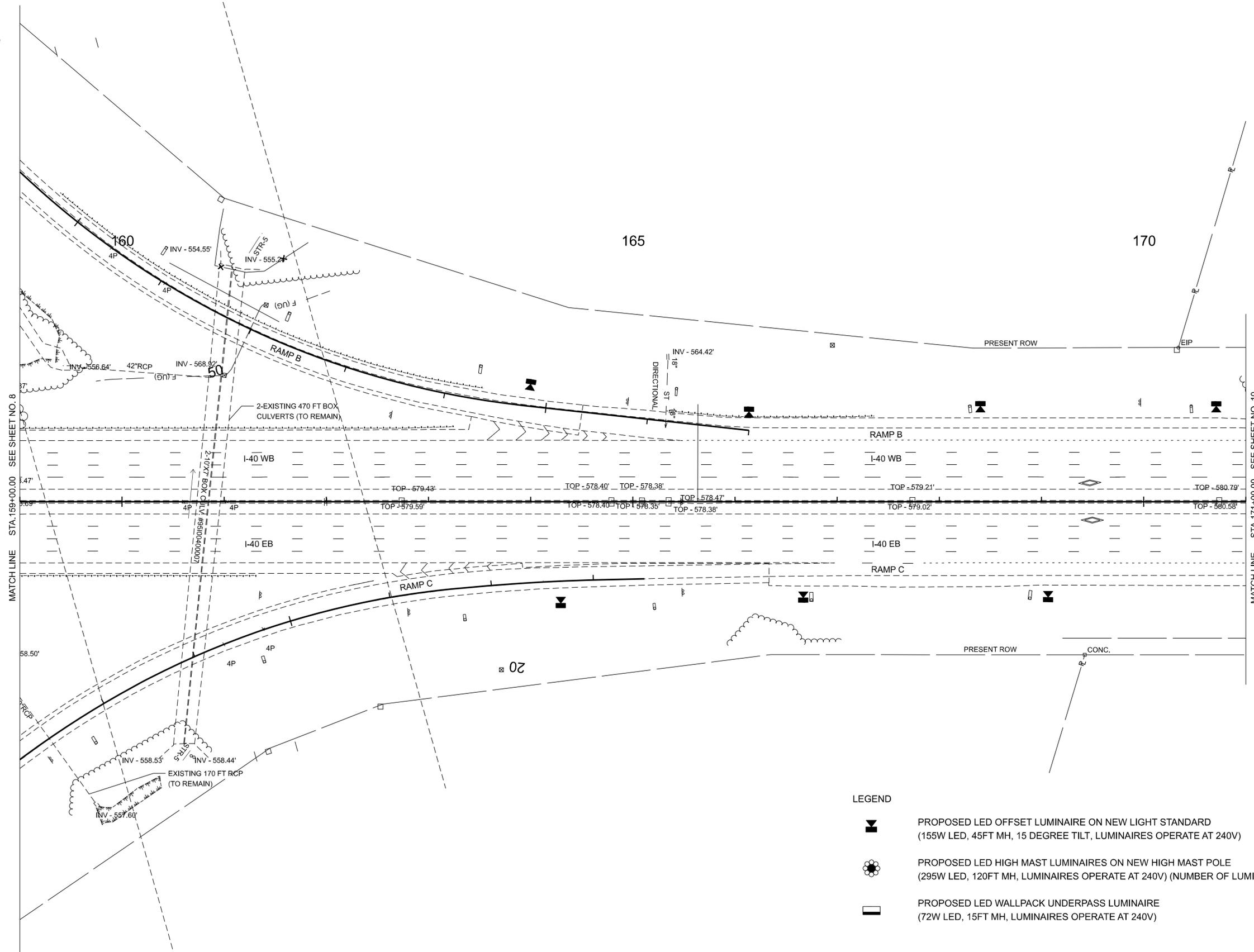
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**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED  
LAYOUT**

STA. 120+50.00 TO STA. 124+50.00  
 SCALE: 1" = 25'

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	9
PLAN-IN-HAND	2025	95I040-S3-011	9
PS&E	2026	95I040-S3-011	9



MATCH LINE STA. 159+00.00 SEE SHEET NO. 8

MATCH LINE STA. 171+00.00 SEE SHEET NO. 10

**LEGEND**

-  PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD  
(155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LED HIGH MAST LUMINAIRE ON NEW HIGH MAST POLE  
(295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
-  PROPOSED LED WALLPACK UNDERPASS LUMINAIRE  
(72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)

**SEALED BY**



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**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

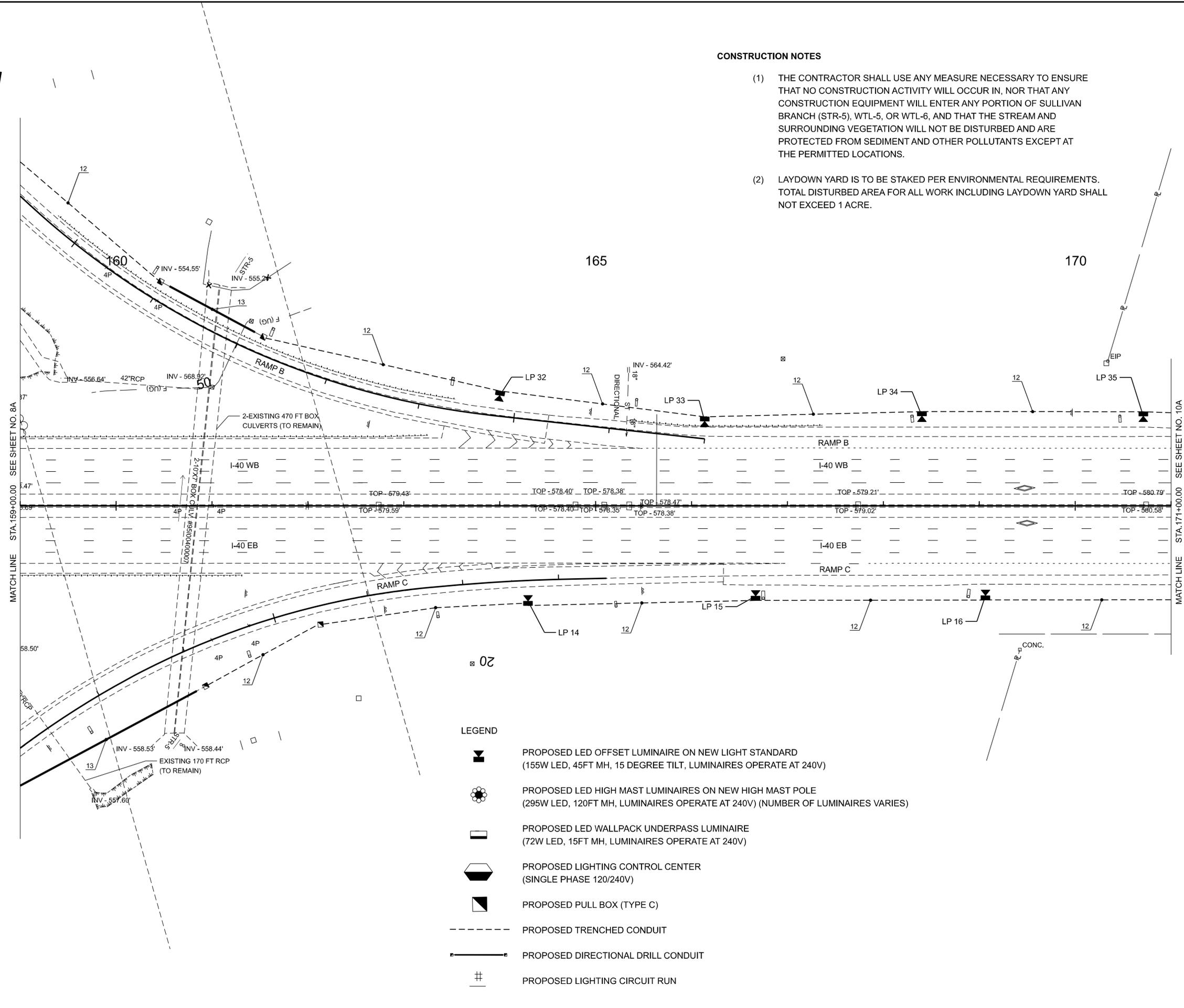
**PRESENT  
LAYOUT**

STA. 159+00.00 TO STA. 171+00.00  
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	9A
PLAN-IN-HAND	2025	95I040-S3-011	9A
PS&E	2026	95I040-S3-011	9A

**CONSTRUCTION NOTES**

- (1) THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF SULLIVAN BRANCH (STR-5), WTL-5, OR WTL-6, AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.
- (2) LAYDOWN YARD IS TO BE STAKED PER ENVIRONMENTAL REQUIREMENTS. TOTAL DISTURBED AREA FOR ALL WORK INCLUDING LAYDOWN YARD SHALL NOT EXCEED 1 ACRE.



**LEGEND**

- PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD (155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
- PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE (295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
- PROPOSED LED WALLPACK UNDERPASS LUMINAIRE (72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)
- PROPOSED LIGHTING CONTROL CENTER (SINGLE PHASE 120/240V)
- PROPOSED PULL BOX (TYPE C)
- PROPOSED TRENCHED CONDUIT
- PROPOSED DIRECTIONAL DRILL CONDUIT
- PROPOSED LIGHTING CIRCUIT RUN

**SEALED BY**

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**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED  
LAYOUT**

STA. 159+00.00 TO STA. 171+00.00  
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	10
PLAN-IN-HAND	2025	95I040-S3-011	10
PS&E	2026	95I040-S3-011	10

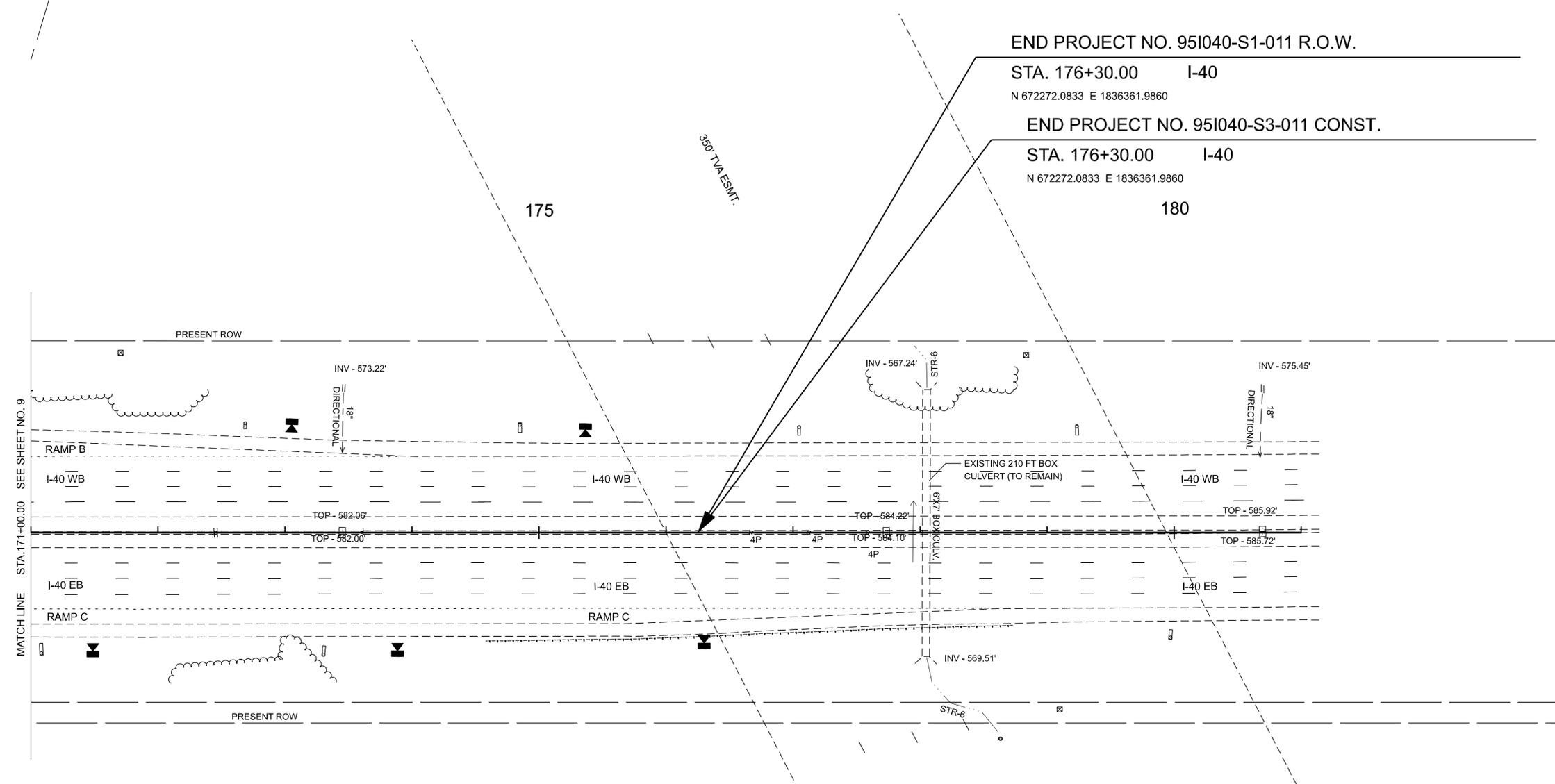


END PROJECT NO. 95I040-S1-011 R.O.W.

STA. 176+30.00 I-40  
N 672272.0833 E 1836361.9860

END PROJECT NO. 95I040-S3-011 CONST.

STA. 176+30.00 I-40  
N 672272.0833 E 1836361.9860



**LEGEND**

- PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD  
(155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
- PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE  
(295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
- PROPOSED LED WALLPACK UNDERPASS LUMINAIRE  
(72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

PRESENT  
LAYOUT

STA. 171+00.00 TO STA. 181+00.00  
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	10A
PLAN-IN-HAND	2025	95I040-S3-011	10A
PS&E	2026	95I040-S3-011	10A

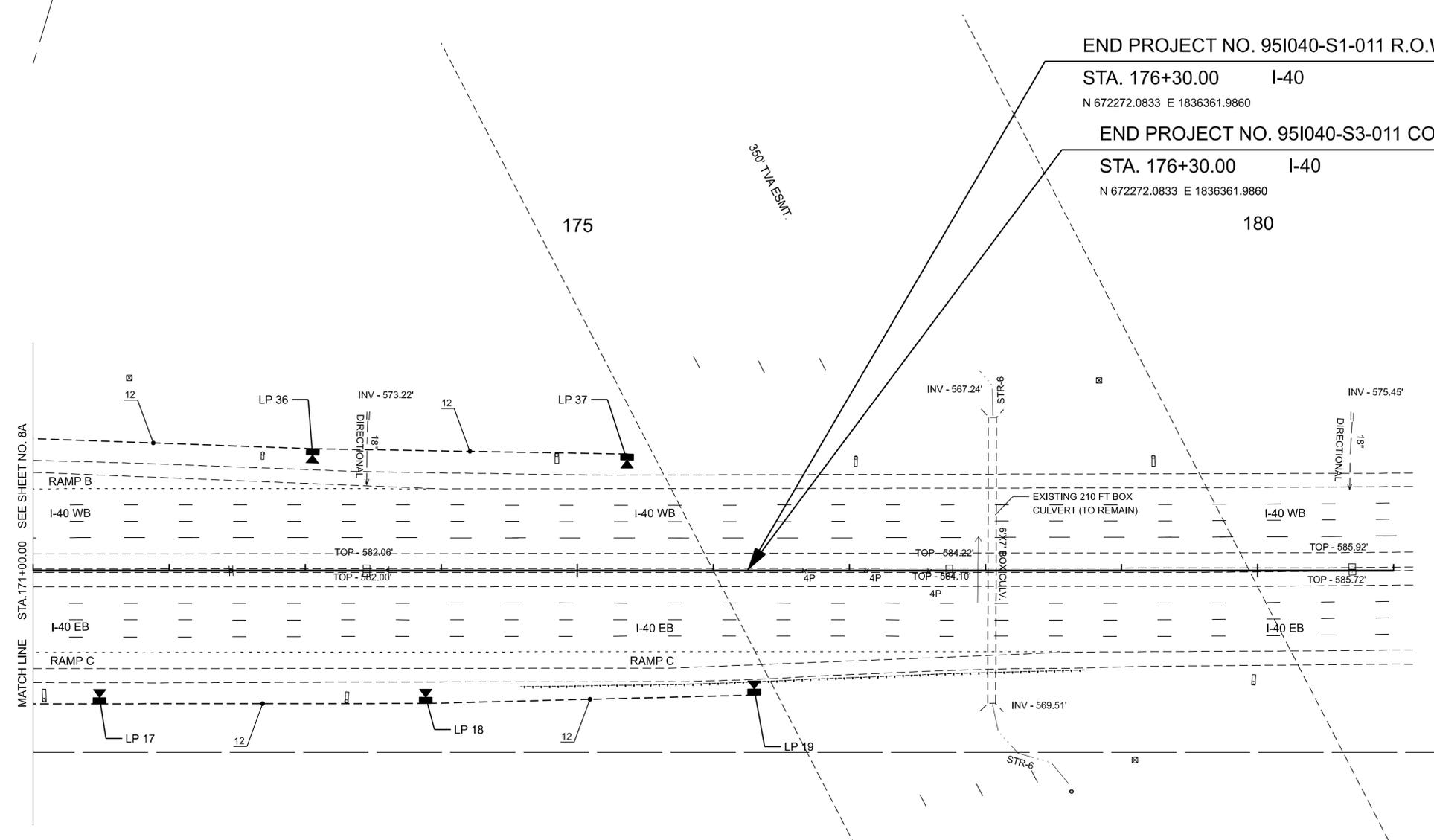


END PROJECT NO. 95I040-S1-011 R.O.W.

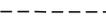
STA. 176+30.00 I-40  
N 672272.0833 E 1836361.9860

END PROJECT NO. 95I040-S3-011 CONST.

STA. 176+30.00 I-40  
N 672272.0833 E 1836361.9860



LEGEND

-  PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD (155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE (295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
-  PROPOSED LED WALLPACK UNDERPASS LUMINAIRE (72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LIGHTING CONTROL CENTER (SINGLE PHASE 120/240V)
-  PROPOSED PULL BOX (TYPE C)
-  PROPOSED TRENCHED CONDUIT
-  PROPOSED DIRECTIONAL DRILL CONDUIT
-  PROPOSED LIGHTING CIRCUIT RUN

CONSTRUCTION NOTES

- (1) THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF STR-6 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.
- (2) LAYDOWN YARD IS TO BE STAKED PER ENVIRONMENTAL REQUIREMENTS. TOTAL DISTURBED AREA FOR ALL WORK INCLUDING LAYDOWN YARD SHALL NOT EXCEED 1 ACRE.

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12/02/2025

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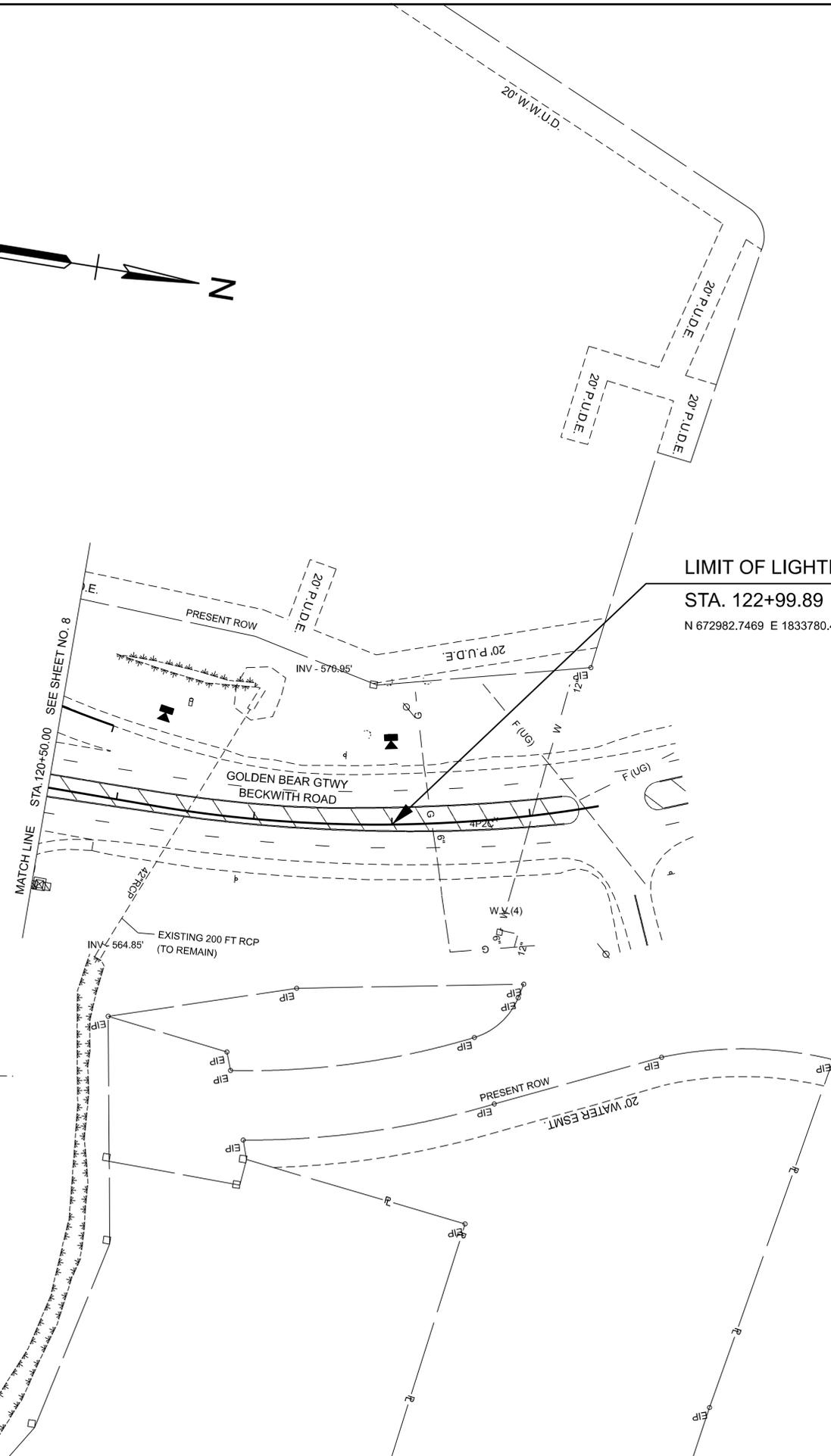
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

PROPOSED  
LAYOUT

STA. 171+00.00 TO STA. 181+00.00  
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	11
PLAN-IN-HAND	2025	95I040-S3-011	11
PS&E	2026	95I040-S3-011	11



**LIMIT OF LIGHTING**

STA. 122+99.89 GOLDEN BEAR GATEWAY/  
N 672982.7469 E 1833780.4480 BECKWITH ROAD

**LEGEND**

-  PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD  
(155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE  
(295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
-  PROPOSED LED WALLPACK UNDERPASS LUMINAIRE  
(72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)

**SEALED BY**



12/02/2025

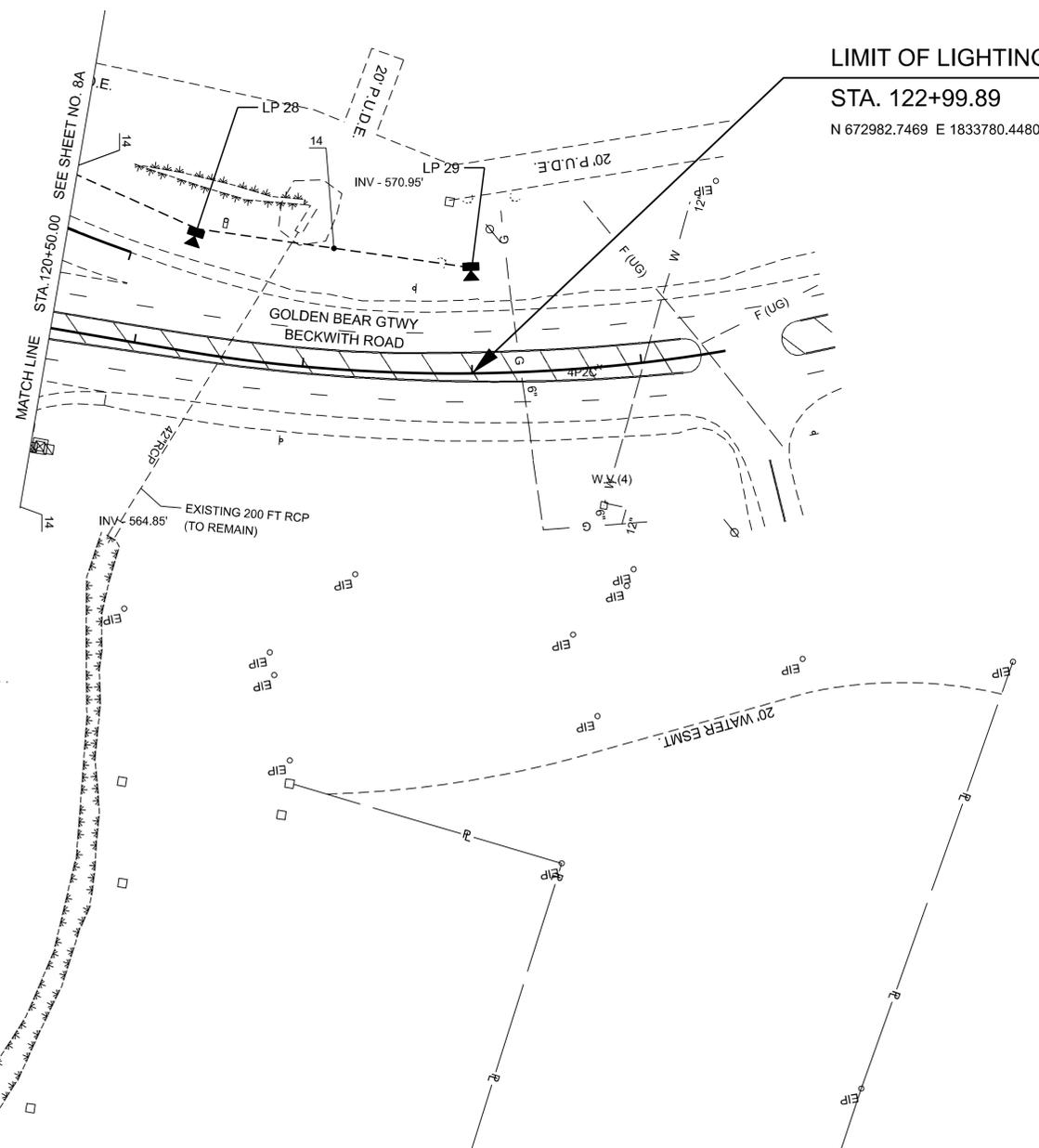
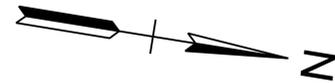
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**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**PRESENT  
LAYOUT**

STA. 120+50.00 TO STA. 124+50.00  
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	11A
PLAN-IN-HAND	2025	95I040-S3-011	11A
PS&E	2026	95I040-S3-011	11A



**LIMIT OF LIGHTING**

STA. 122+99.89 GOLDEN BEAR GATEWAY/  
N 672982.7469 E 1833780.4480 BECKWITH ROAD

**LEGEND**

-  PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD  
(155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE  
(295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
-  PROPOSED LED WALLPACK UNDERPASS LUMINAIRE  
(72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LIGHTING CONTROL CENTER  
(SINGLE PHASE 120/240V)
-  PROPOSED PULL BOX (TYPE C)
-  PROPOSED TRENCHED CONDUIT
-  PROPOSED DIRECTIONAL DRILL CONDUIT
-  PROPOSED LIGHTING CIRCUIT RUN

**CONSTRUCTION NOTES**

- (1) THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT NO CONSTRUCTION ACTIVITY WILL OCCUR IN, NOR THAT ANY CONSTRUCTION EQUIPMENT WILL ENTER ANY PORTION OF WTL-2 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENT AND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.
- (2) LAYDOWN YARD IS TO BE STAKED PER ENVIRONMENTAL REQUIREMENTS. TOTAL DISTURBED AREA FOR ALL WORK INCLUDING LAYDOWN YARD SHALL NOT EXCEED 1 ACRE.

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12/02/2025

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

PROPOSED  
LAYOUT

STA. 120+50.00 TO STA. 124+50.00  
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	12
PLAN-IN-HAND	2025	95I040-S3-011	12
PS&E	2026	95I040-S3-011	12

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts
	5	8-295W LED HM	8 @ 45 Degrees	HMLEd4 P2 40K XXXXX AW	120FT MH	0.801	44461	295
	1	6-295W LED HM 120 DEG	6 @ 60 DEG	HMLEd4 P2 40K XXXXX AW HMLEd4D120	120FT MH	0.801	34696	295
	36	155W MNGS	Single	MGLEDM P3 40K XXXXX WG	45FT MH, 15 DEG TILT	0.864	21735	154.75
	4	72W LED WALLPACK	Single	W4GLED 20C1000 40K T3M	15FT MH	0.783	6982	295

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
01A_RAMP A	Illuminance	Fc	0.79	2.24	0.22	3.59
01B_I-24 AT RAMP A	Illuminance	Fc	0.63	2.22	0.22	2.86
02A_RAMP D	Illuminance	Fc	0.76	2.21	0.30	2.53
02B_I-24 AT RAMP D	Illuminance	Fc	0.61	2.05	0.24	2.54
03A_RAMP B	Illuminance	Fc	0.66	2.34	0.24	2.75
03B_RAMP E	Illuminance	Fc	0.64	1.66	0.22	2.91
03C_I-24 AT RAMP B & E	Illuminance	Fc	0.70	2.06	0.20	3.50
04A_RAMP C	Illuminance	Fc	0.74	2.19	0.20	3.70
04B_RAMP F	Illuminance	Fc	0.74	1.95	0.20	3.70
04C_I-24 AT RAMP C & F	Illuminance	Fc	0.60	1.94	0.19	3.16
04D_RAMP G	Illuminance	Fc	0.72	1.94	0.35	2.06
05A_I-24 AT GOLDEN BEAR	Illuminance	Fc	0.96	2.62	0.25	3.84
07_UNDERPASS	Illuminance	Fc	0.89	2.29	0.28	3.18
05B_I-24 AT RAMPS A & B INT	Illuminance	Fc	1.14	2.34	0.30	3.80
05C_I-24 AT RAMP G INT	Illuminance	Fc	1.16	2.27	0.59	1.97

**Mainline (1): I-40**

TDOT Traffic Design Manual, Table 15.3

Interstate (*Freeway, Class B*)

Average 0.6 fc

Avg/Min 3:1 to 4:1

Veiling Ratio 0.3

**Mainline (2): Golden Bear Gateway/Beckwith Road:**

TDOT Traffic Design Manual, Table 15.3

Major Collector (*Collector*), Low Pedestrian

Average 0.6 fc

Avg/Min 4:1

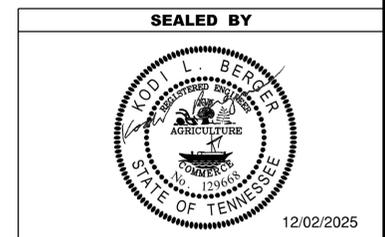
Veiling Ratio 0.4

**Intersection: I-40 Ramps and Ramps**

Sum of both of the roadways

Average 0.6 + 0.6 = 1.2 fc

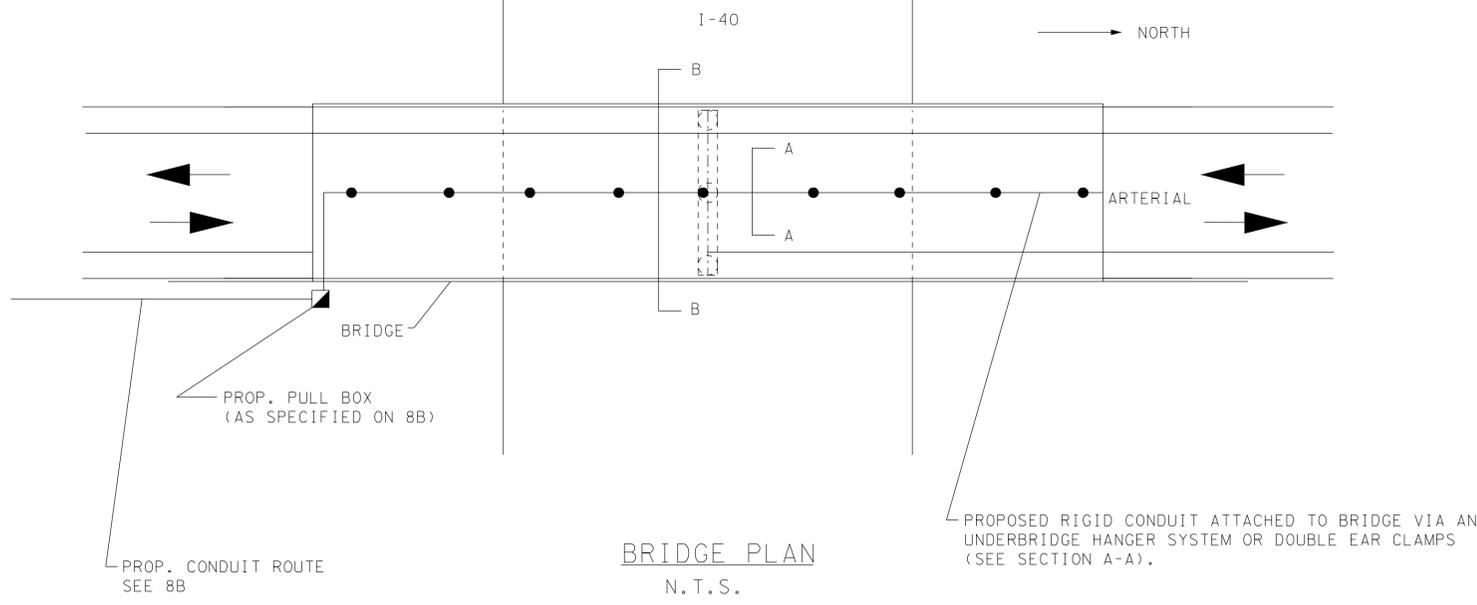
Avg/Min 3:1



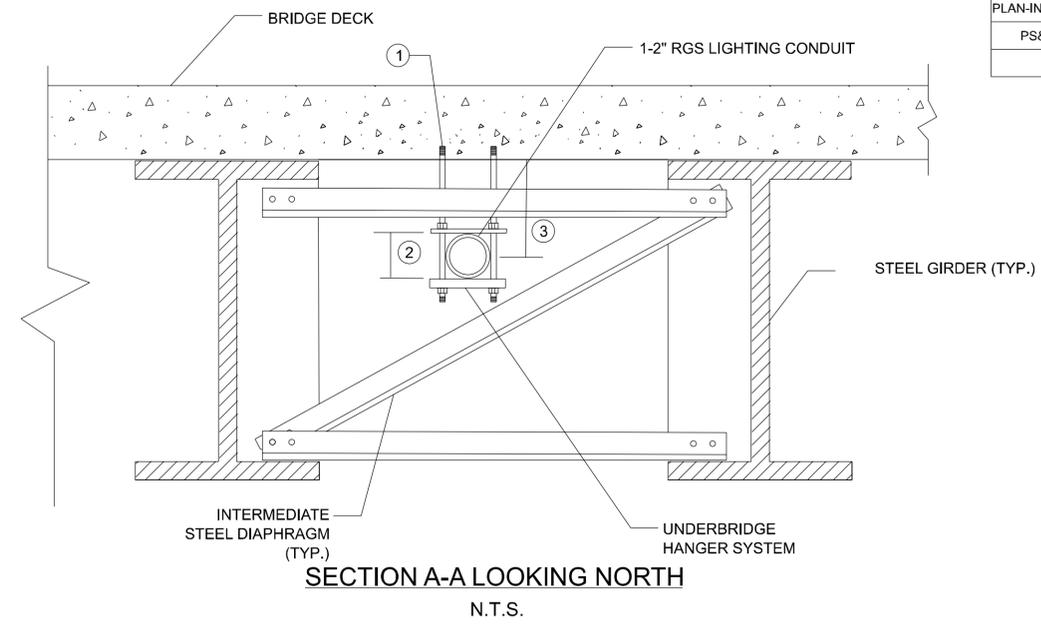
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

PHOTOMETRIC  
SUMMARY

TYPE	YEAR	PROJECT NO.	SHEET NO.
PLAN-IN-HAND	2025	95I040-S3-011	13
PS&E	2026	95I040-S3-011	13

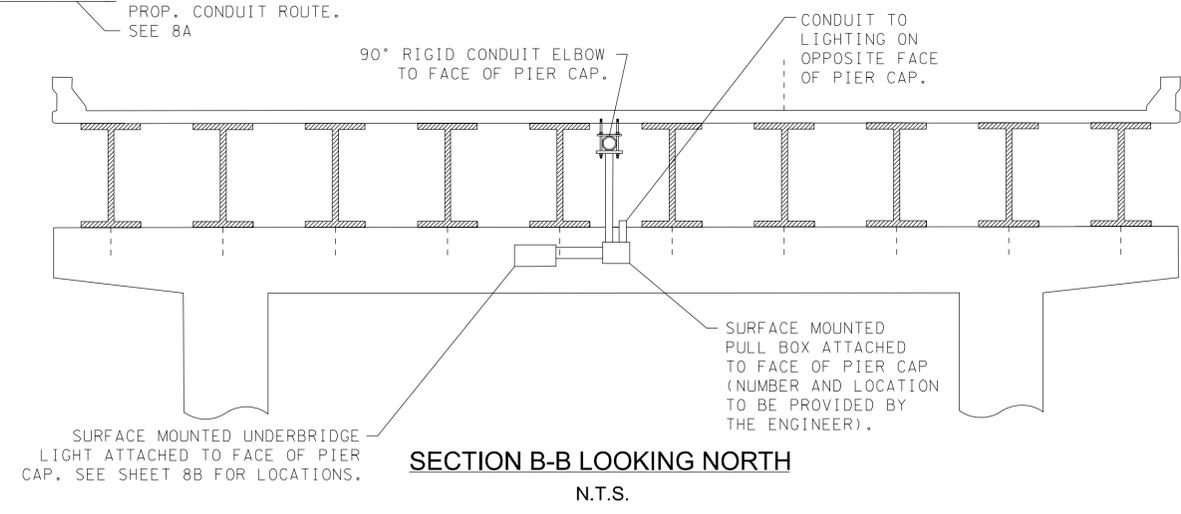
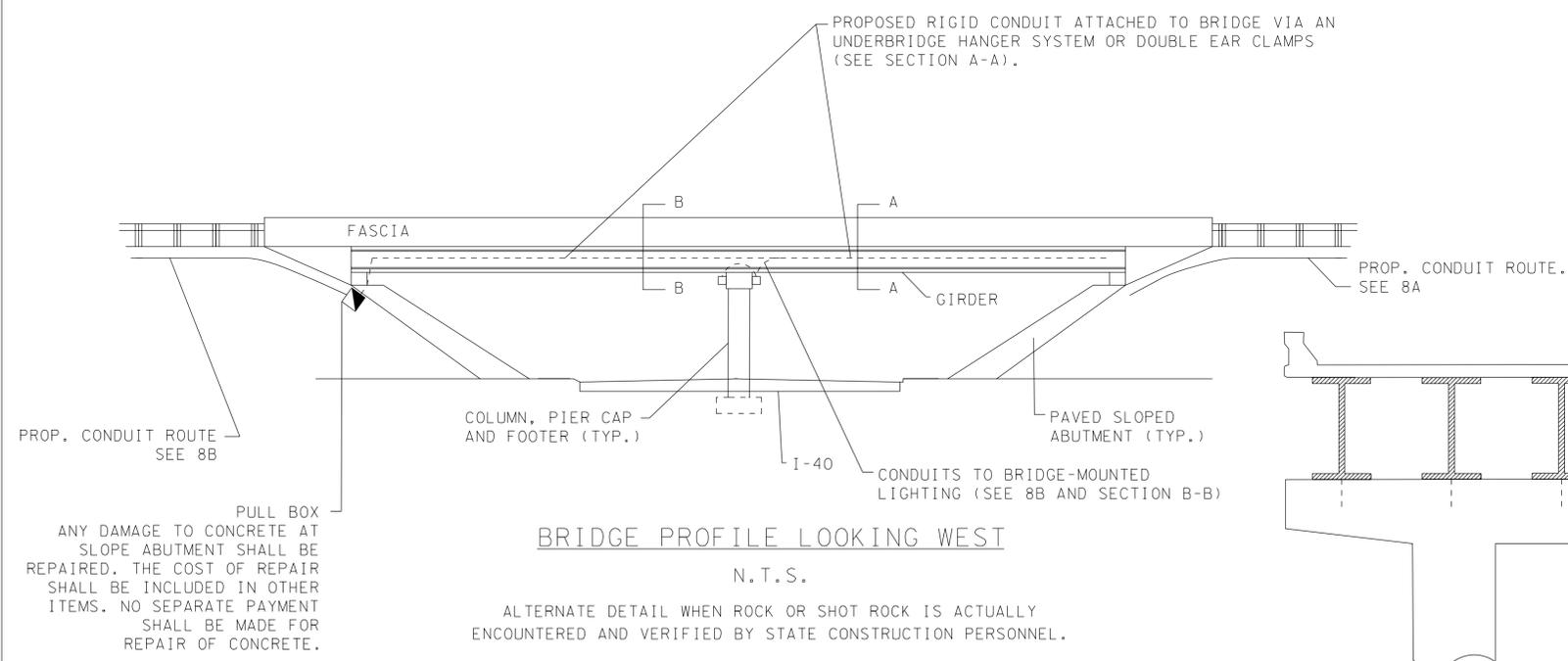


ALTERNATE DETAIL WHEN ROCK OR SHOT ROCK IS ACTUALLY ENCOUNTERED AND VERIFIED BY STATE CONSTRUCTION PERSONNEL.



**BRIDGE DETAIL NOTES:**

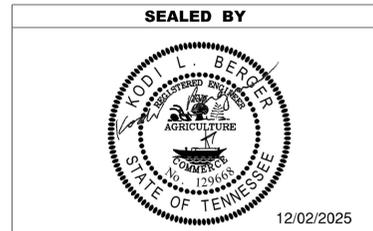
- ① THE METHOD OF ATTACHMENT FOR THE HANGER SYSTEM TO THE BRIDGE DECK SLAB SHALL BE DRILLING AND EPOXY ONLY. SPACING OF HANGERS SHALL BE 10' MAXIMUM.
- ② AS RECOMMENDED BY UNDERBRIDGE HANGER SYSTEM MANUFACTURER BASED ON ACTUAL CONDUIT SIZES USED.
- ③ AS RECOMMENDED BY UNDERBRIDGE HANGER SYSTEM MANUFACTURER BASED ON ACTUAL CONDUIT SIZES USED. HOWEVER THIS DIMENSION SHALL BE LESS THAN THE DEPTH OF THE GIRDER SO THAT THE UNDERBRIDGE HANGER SYSTEM IS NOT LOWER THAN THE BOTTOM OF THE GIRDERS.



**NOTES:**

1. SEE 8B FOR BRIDGE CROSSING LOCATIONS.
2. THESE TYPICAL SECTIONS SHOULD BE APPLIED TO THE BRIDGE CROSSING AS NECESSARY. IF VARIATIONS FROM THESE TYPICALS ARE NECESSARY, CONTRACTOR SHALL SUBMIT PROPOSED DETAILS TO THE ENGINEER FOR REVIEW AND APPROVAL.
3. ATTACHMENTS TO BE APPROXIMATELY CENTERED IN THE GIRDER BAY.
4. ALL UTILITY CONDUIT, HANGERS, BRACKETS, ETC. MUST BE ABOVE THE LOW POINT OF THE SUPERSTRUCTURE.
5. NO WELDING OR ATTACHMENTS TO STRUCTURAL STEEL ARE PERMITTED.
6. THE HANGER SYSTEM SUPPORT SPACING SHALL BE 10'-0" MAXIMUM. SPACINGS LESS THAN 10'-0" MAY BE REQUIRED TO AVOID CONFLICTS WITH DIAPHRAGMS, BRACINGS, AND/OR STIFFENERS. DIAPHRAGMS AND ABUTMENT WALLS ARE NOT CONSIDERED "SUPPORTS" FOR CONDUIT.

7. ALL EXPOSED CONDUIT SHALL BE RIGID.
8. ALL OPENINGS IN DIAPHRAGMS AND ABUTMENT WALLS SHALL BE SEALED WITH EXPANDABLE MATERIAL (i.e.) RUBBERIZED FLOWABLE FILL EPOXY) THAT RETAINS FILL AND PREVENTS WATER LEAKAGE.
9. ALL BRIDGE ATTACHMENTS NEED TO BE APPROVED BY TDOT DIVISION OF STRUCTURES AND SHOWN ON AS-BUILD BRIDGE DRAWINGS. IN NO CASE SHALL CONDUIT BE ATTACHED TO THE OUTSIDE OF THE EXTERIOR GIRDER WITHOUT APPROVAL FROM TDOT-STRUCTURES DIVISION. APPROVAL WILL ONLY BE GIVEN UNDER UNUSUAL CIRCUMSTANCES.
10. THE ABOVE DETAILS SHOWING THE PULL BOXES AND CONDUIT LOCATIONS SHOULD BE USED. PULL BOXES AND BRIDGE CONDUIT SHOULD BE LOCATED IN THE FIELD BY CONTRACTOR AND STATE CONSTRUCTION PERSONNEL. BRIDGE PULL BOXES AND CONDUIT LOCATIONS ON 8B ARE FOR SCHEMATIC PURPOSES ONLY. IF THERE IS A DIFFERENCE BETWEEN WHAT IS SHOWN ON THE PLAN SHEETS AND WHAT IS SHOWN ON THESE DETAILS, THESE DETAILS SHALL TAKE PRECEDENCE.

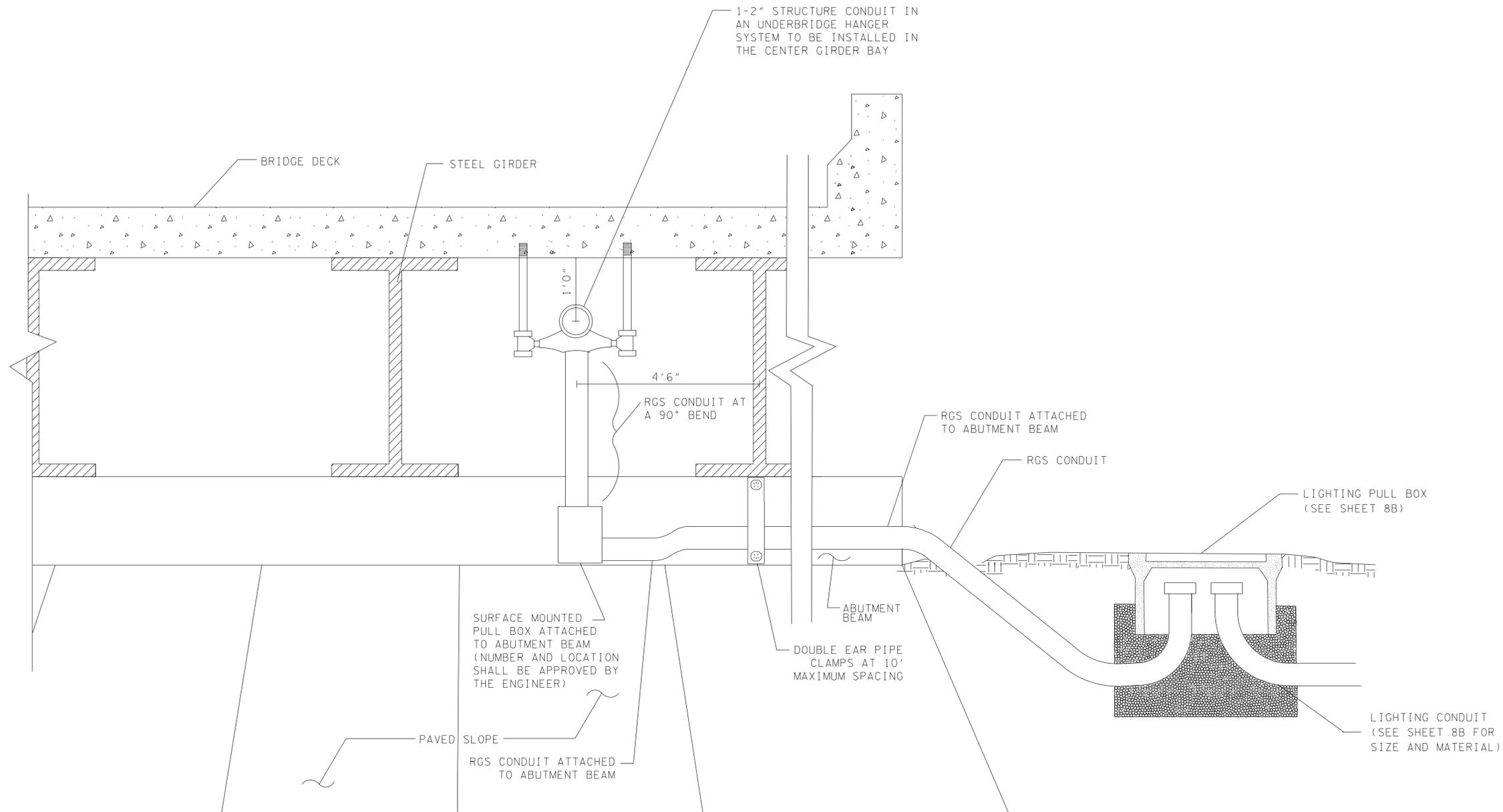


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

CONDUIT DETAILS

11/5/2025 8:54:57 AM C:\BOOKER01\_ACTIVE\TDDTE2436\COFFEE01\_124 AT SR 2 AND SR 53 INTERCHANGE LIGHTING\01A\_FUNCTIONAL DGN FILES\16024-00-SHT-LIGHTING UTILITY NOTES & OWNERS.DGN

TYPE	YEAR	PROJECT NO.	SHEET NO.
PLAN-IN-HAND	2025	95I040-S3-011	14
PS&E	2026	95I040-S3-011	14



CONDUIT TRANSITIONING OUT OF UNDERBRIDGE HANGER SYSTEM AND ATTACHED ON ABUTMENT BEAM AND/OR INTO EARTH TRENCH

N.T.S.

SEALED BY



12/02/2025

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

CONDUIT DETAILS

# EROSION PREVENTION AND SEDIMENT CONTROL NOTES

## SUBSECTION 1 – EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

### EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

#### DISTURBED AREA

- (1) IF DISTURBED ACREAGE IS EQUAL TO ONE ACRE OR MORE, PLEASE CONTACT TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION AS SOON AS POSSIBLE BECAUSE AN NPDES PERMIT WILL BE REQUIRED.
- (2) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- (3) UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES.
- (4) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 14 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS APPLIED.
- (5) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

#### SEDIMENT CONTROL

- (6) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- (7) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE/DURING A PRECIPITATION EVENT.
- (8) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFFSITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFFSITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE NEGOTIATED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.
- (9) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- (10) THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER DISCHARGED SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL-VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY

WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

#### INSPECTION, MAINTENANCE & REPAIR

- (12) THE TDOT CONSTRUCTION SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S RESPONSIBLE PARTY ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION SUPERVISOR OR THEIR DESIGNEE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
- (13) TDOT CONSULTANTS AND CONTRACTOR STAFF RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. TDOT STAFF AND SUPERVISORS RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDOT "FUNDAMENTALS OF EROSION AND SEDIMENT CONTROL" CLASS AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION.
- (14) EPSC CONTROLS SHALL BE INSPECTED ACCORDING TO PERMIT REQUIREMENTS TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT.
- (15) DISCHARGE POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE ROADWAY SEDIMENT TRACKING.
- (16) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24 HOUR TIMEFRAME, WRITTEN DOCUMENTATION SHALL BE PROVIDED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.
- (17) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES SHALL BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.
- (18) THE EPSC PLAN SHALL BE UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.
- (19) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT SHALL BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

#### EROSION PREVENTION

- (20) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.
- (21) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- (22) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF OPERATIONS, INCLUDING THE PLAN FOR STAGING OF

TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE TDOT RESPONSIBLE PARTY. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN.

- (23) TEMPORARY STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION MEASURES IN DISTURBED AREAS SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY PHASE OF CONSTRUCTION.
- (24) STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT.
- (25) PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.
- (26) TEMPORARY OR PERMANENT STABILIZATION MUST BE FREE OF FINES (SILT AND CLAY SIZED PARTICLES). UNPACKED GRAVEL CONTAINING FINES OR CRUSHER-RUN WILL NOT BE CONSIDERED SUFFICIENT STABILIZATION.
- (27) DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED.

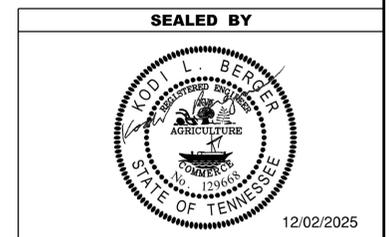
#### PERMITS, PLANS & RECORDS

- (28) THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER A CHANGE IN THE DESIGN OR CONSTRUCTION OF THE PROJECT OCCURS. THE STAGES DEPICTED IN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL PHASES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION. THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS PHASES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE PHASES OF CONSTRUCTION THAT WILL OCCUR; THUS THESE DOCUMENTS WILL HAVE TO BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

#### GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- (29) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.
- (30) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.
- (31) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.
- (32) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (33) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	14
PLAN-IN-HAND	2025	95I040-S3-011	15
PS&E	2026	95I040-S3-011	15



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**EROSION PREVENTION  
AND SEDIMENT  
CONTROL (EPSC)  
NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
FUNCTIONAL	2025	95I040-S1-011	15
PLAN-IN-HAND	2025	95I040-S3-011	16
PS&E	2026	95I040-S3-011	16

- (34) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.
- (35) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- (36) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.
- (37) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.
- (38) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.
- (39) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.
- (40) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

**SUPPORT ACTIVITIES**

- (41) IF OFFSITE BORROW AND WASTE AREAS BECOME NECESSARY DURING THE LIFE OF THE PROJECT, THIS SUPPORT ACTIVITY SHALL BE ADDRESSED PER THE TDOT WASTE AND BORROW MANUAL.
- (42) MATERIALS AND STAGING AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN.
- (43) IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY EPSC PLANS FOR THE MATERIAL AND STAGING AREAS TO THE ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW.

**SPILL PREVENTION, MANAGEMENT & NOTIFICATION**

- (44) ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE AND SPILLS.
- (45) FOR ALL HAZARDOUS MATERIALS STORED ONSITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED. SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.
- (46) APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ONSITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.
- (47) ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- (48) THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

- (49) IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION SHALL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR SHALL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.
- (50) FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- (51) IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
- (52) WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, SEE THE LATEST TENNESSEE GENERAL PERMIT NO. TNR100000 STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES SECTION 5.1 FOR REPORTING REQUIREMENTS.
- (53) CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ONSITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE CONTAINERS WITH A COMBINED CAPACITY OF 1320 GALLONS OR MORE SHALL HAVE SECONDARY CONTAINMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN FOR THE BULK STORAGE AND BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ONSITE AND A COPY PROVIDED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO STORING 1320 GALLONS ON SITE.

**SUBSECTION 2 – EROSION PREVENTION AND SEDIMENT CONTROL SPECIAL NOTES**

**EROSION PREVENTION AND SEDIMENT CONTROL SPECIAL NOTES**

**STREAMS, WETLANDS & BUFFER ZONES**

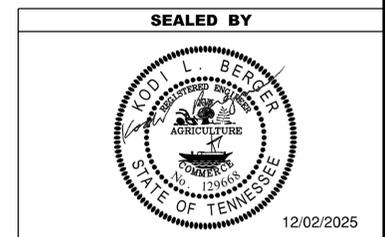
- (1) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION.
- (2) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES.
- (3) BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND MUST NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPs) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

**NPDES**

**UTILITY RELOCATION**

- (5) STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.

- (6) SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY.
- (7) UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
- (8) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFFSITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFFSITE AND ENTERING WATERS OF THE STATE/U.S.
- (9) FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.
- (10) IN REGARD TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.
- (11) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT RESPONSIBLE PARTY.
- (12) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
- (13) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.
- (14) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT RESPONSIBLE PARTY BEFORE COMMENCING WORK.



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**EROSION PREVENTION  
AND SEDIMENT  
CONTROL (EPSC)  
NOTES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
PLAN-IN-HAND	2025	95I040-S3-011	17
PS&E	2026	95I040-S3-011	17

TABULATED EPSC QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	22
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	18,000
621-03.01	15" TEMPORARY DRAINAGE PIPE	L.F.	200
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	7,200
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	65
740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	344
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	9
801-03	WATER (SEEDING & SODDING)	M.G.	1
803-01	SODDING (NEW SOD)	S.Y.	1,000

NOTE: ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.

### EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

	SYMBOL	ITEM	STD. DWG.
① ②	* SF * SF * SF *	SILT FENCE WITH BACKING	EC-STR-3C
①	* HVF * HVF * HVF *	HIGH VISIBILITY FENCE	S-F-1

- ① ALL EROSION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
- ② J-HOOKS SHALL BE INSTALLED FOR SILT FENCE INSTALLED ACROSS A CONTOUR.

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION  
AND SEDIMENT  
CONTROL (EPSC)  
LEGEND AND TABULATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
PLAN-IN-HAND	2025	95I040-S3-011	18
PS&E	2026	95I040-S3-011	18



BEGIN PROJECT NO. 95I040-S1-011 R.O.W.

STA. 126+73.51 I-40  
N 671569.0991 E 1831454.8297

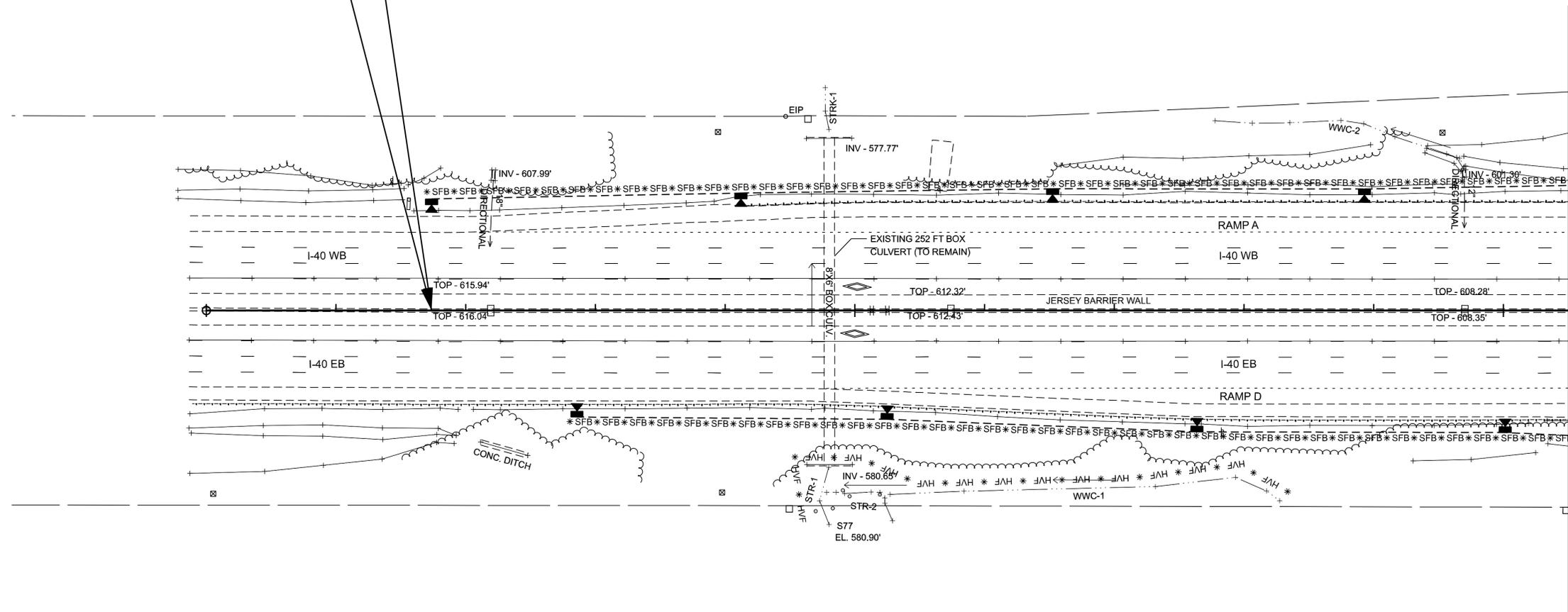
BEGIN PROJECT NO. 95I040-S3-011 CONST.

STA. 126+73.51 I-40  
N 671569.0991 E 1831454.8297

125

130

135



LEGEND

-  PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD (155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE (295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
-  PROPOSED LED WALLPACK UNDERPASS LUMINAIRE (72W LED, 15FT MH, LUMINAIRES OPERATE AT 240V)
-  PROPOSED LIGHTING CONTROL CENTER (SINGLE PHASE 120/240V)
-  PROPOSED PULL BOX (TYPE C)
-  PROPOSED TRENCHED CONDUIT
-  PROPOSED DIRECTIONAL DRILL CONDUIT

EPSC STAGES

- (1) EROSION CONTROL DEVICES SHALL BE INSTALLED ALONG ENVIRONMENTAL FEATURES BEFORE CONSTRUCTION/CLEARING AND GRUBBING ACTIVITIES. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE EARTH MOVEMENT AROUND PROPOSED STRUCTURES (POLES/FOOTERS, CONTROL CENTERS, PULLBOXES, ETC.). IN AREAS THAT ARE TO BE TRENCHED (CONDUIT INSTALLATION) AND NOT LOCATED ADJACENT TO ENVIRONMENTAL FEATURES. EROSION CONTROL DEVICES SHALL BE PLACED IMMEDIATELY AFTER AREA IS DISTURBED.
- (2) EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL LOCATION IS STABILIZED WITH FINAL VEGETATION.

NOTES:

1. USE J-HOOKS WHERE SILT FENCE CROSSES CONTOURS.
2. TEMPORARY CONSTRUCTION EXITS SHALL BE APPROVED BY THE ENGINEER PRIOR TO START OF CONSTRUCTION.
3. ALL EXISTING CONTOURS ARE TO BE MAINTAINED AND RESTORED UPON COMPLETION OF PROPOSED WORK.
4. ALL EXISTING DRAINAGE STRUCTURES ARE TO BE PROTECTED WITH SILT FENCE AND ALL EXISTING ENVIRONMENTAL BOUNDARIES ARE TO BE PROTECTED WITH HIGH-VISIBILITY FENCE.

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12/02/2025

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

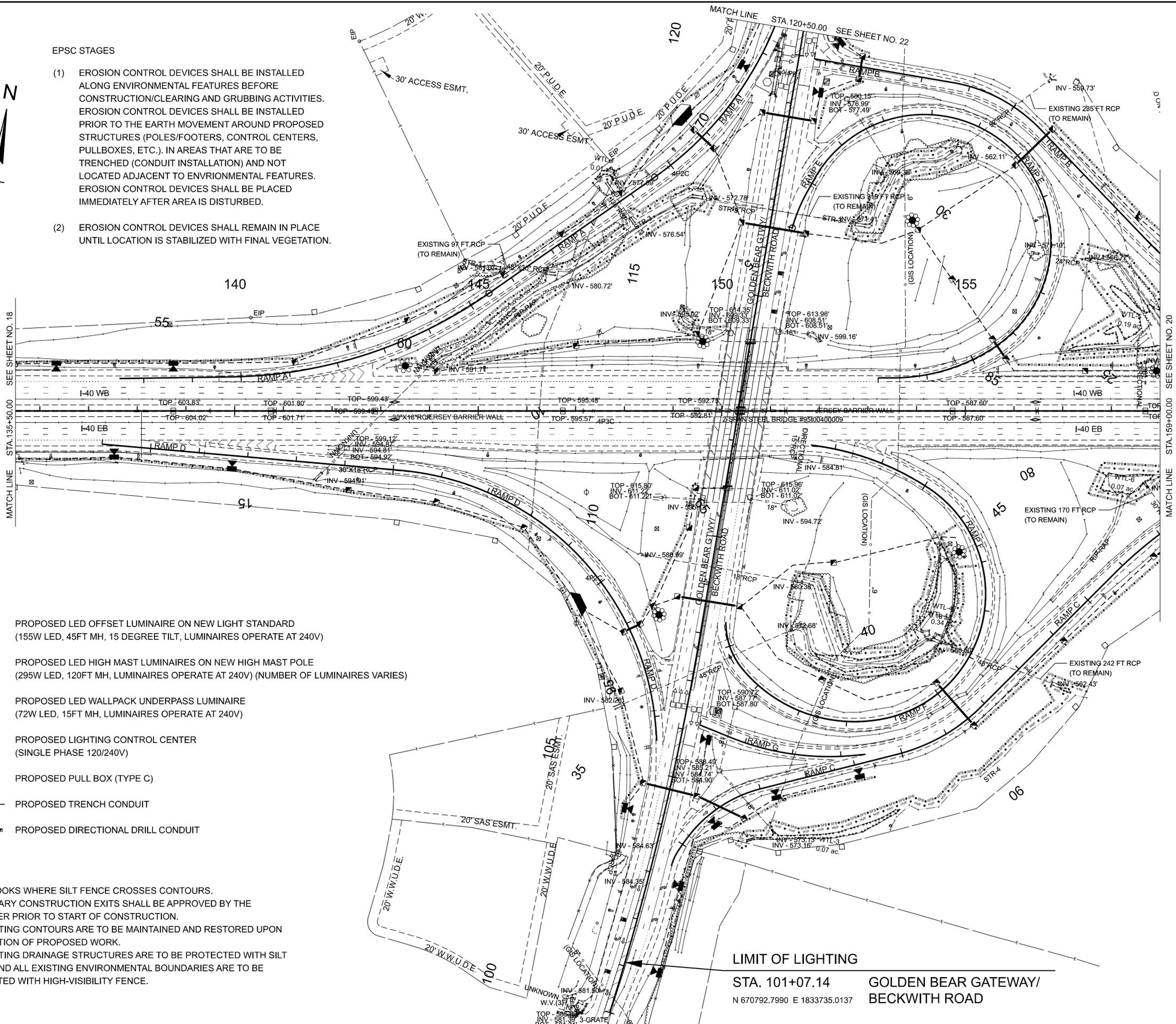
EROSION PREVENTION AND  
SEDIMENT CONTROL (EPSC)  
PLANS

STA. 125+00.00 TO STA. 135+50.00  
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PLAN-IN-HAND	2025	951040-S3-011	19
PS&E	2026	951040-S3-011	19

**EPSC STAGES**

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**LEGEND**

- PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD (155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
- PROPOSED LED HIGH MAST LUMINAIRES ON NEW HIGH MAST POLE (295W LED, 120FT MH, LUMINAIRES OPERATE AT 240V) (NUMBER OF LUMINAIRES VARIES)
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- PROPOSED LIGHTING CONTROL CENTER (SINGLE PHASE 120/240V)
- PROPOSED PULL BOX (TYPE C)
- PROPOSED TRENCH CONDUIT
- PROPOSED DIRECTIONAL DRILL CONDUIT

**NOTES:**

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**LIMIT OF LIGHTING**

STA. 101+07.14 GOLDEN BEAR GATEWAY/  
N 670792.7990 E 1833735.0137 BECKWITH ROAD

**SEALED BY**



12/02/2025

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**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**EROSION PREVENTION AND  
SEDIMENT CONTROL (EPSC)**

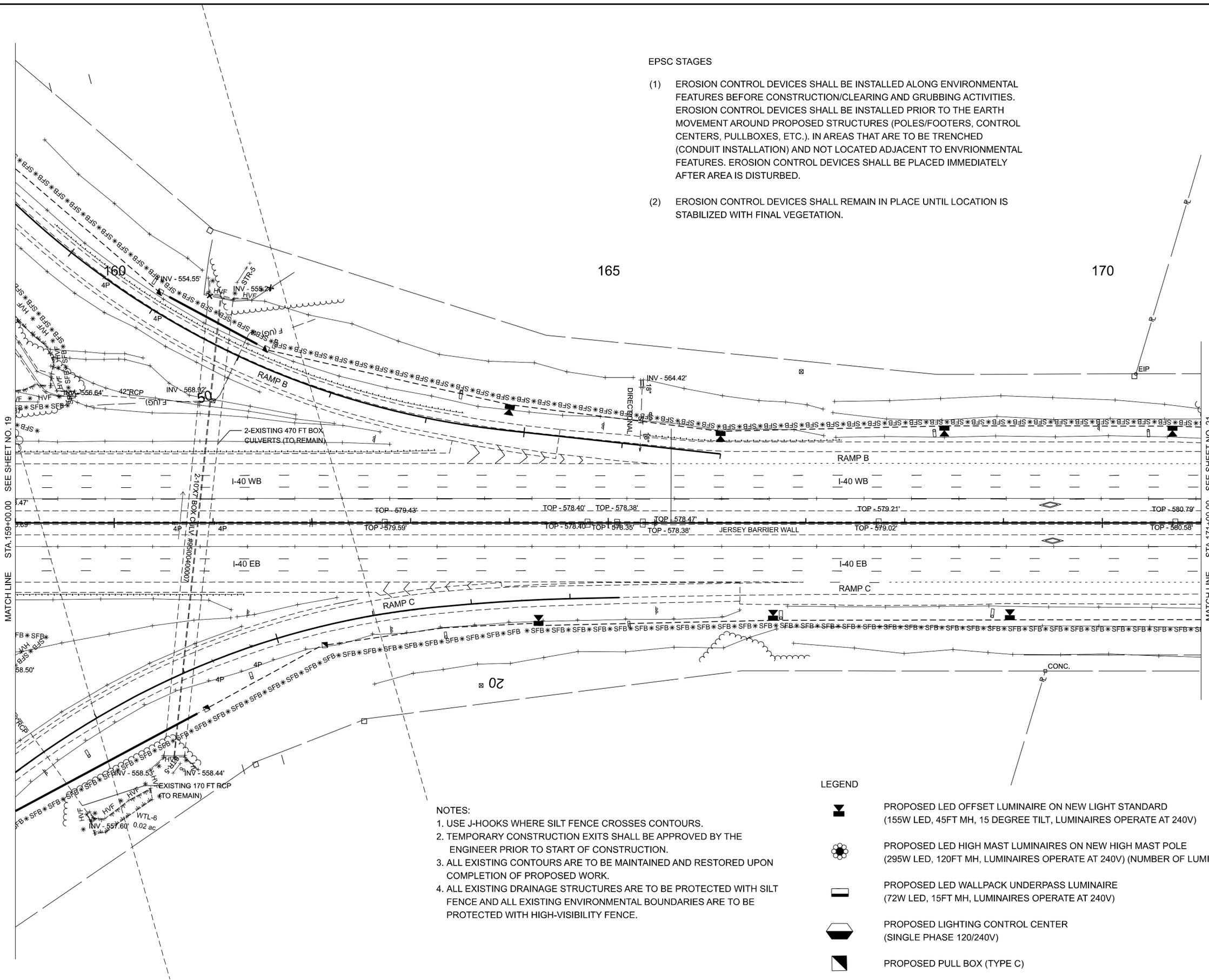
**PLANS**

STA. 135+50.00 TO STA. 159+00.00  
SCALE: 1" = 100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PLAN-IN-HAND	2025	95I040-S3-011	20
PS&E	2026	95I040-S3-011	20

EPSC STAGES

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- NOTES:
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LEGEND

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-  PROPOSED PULL BOX (TYPE C)
-  PROPOSED TRENCHED CONDUIT
-  PROPOSED DIRECTIONAL DRILL CONDUIT

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND  
SEDIMENT CONTROL (EPSC)  
PLANS  
STA. 159+00.00 TO STA. 171+00.00  
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PLAN-IN-HAND	2025	95I040-S3-011	21
PS&E	2026	95I040-S3-011	21

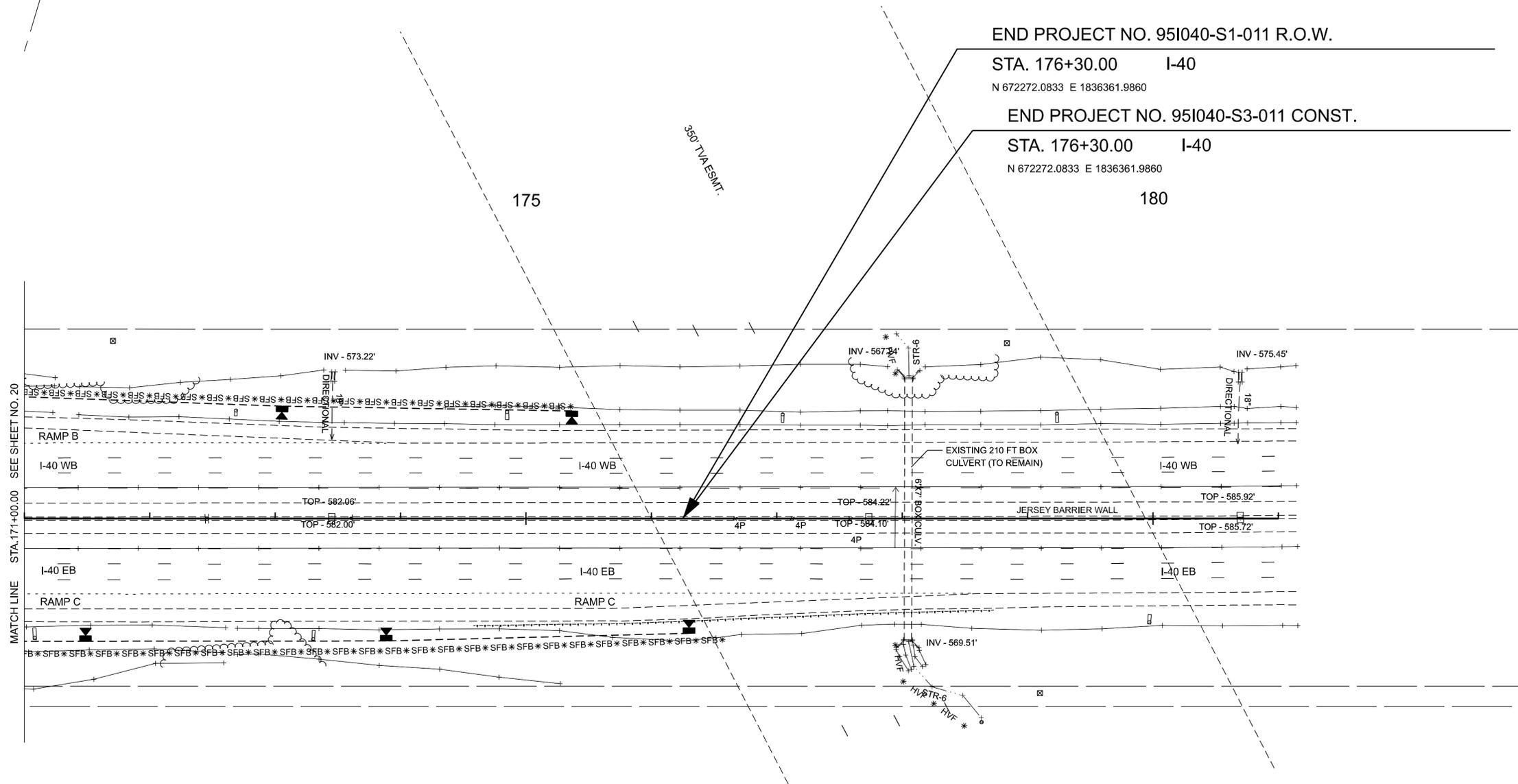


END PROJECT NO. 95I040-S1-011 R.O.W.

STA. 176+30.00 I-40  
N 672272.0833 E 1836361.9860

END PROJECT NO. 95I040-S3-011 CONST.

STA. 176+30.00 I-40  
N 672272.0833 E 1836361.9860



LEGEND

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12/02/2025

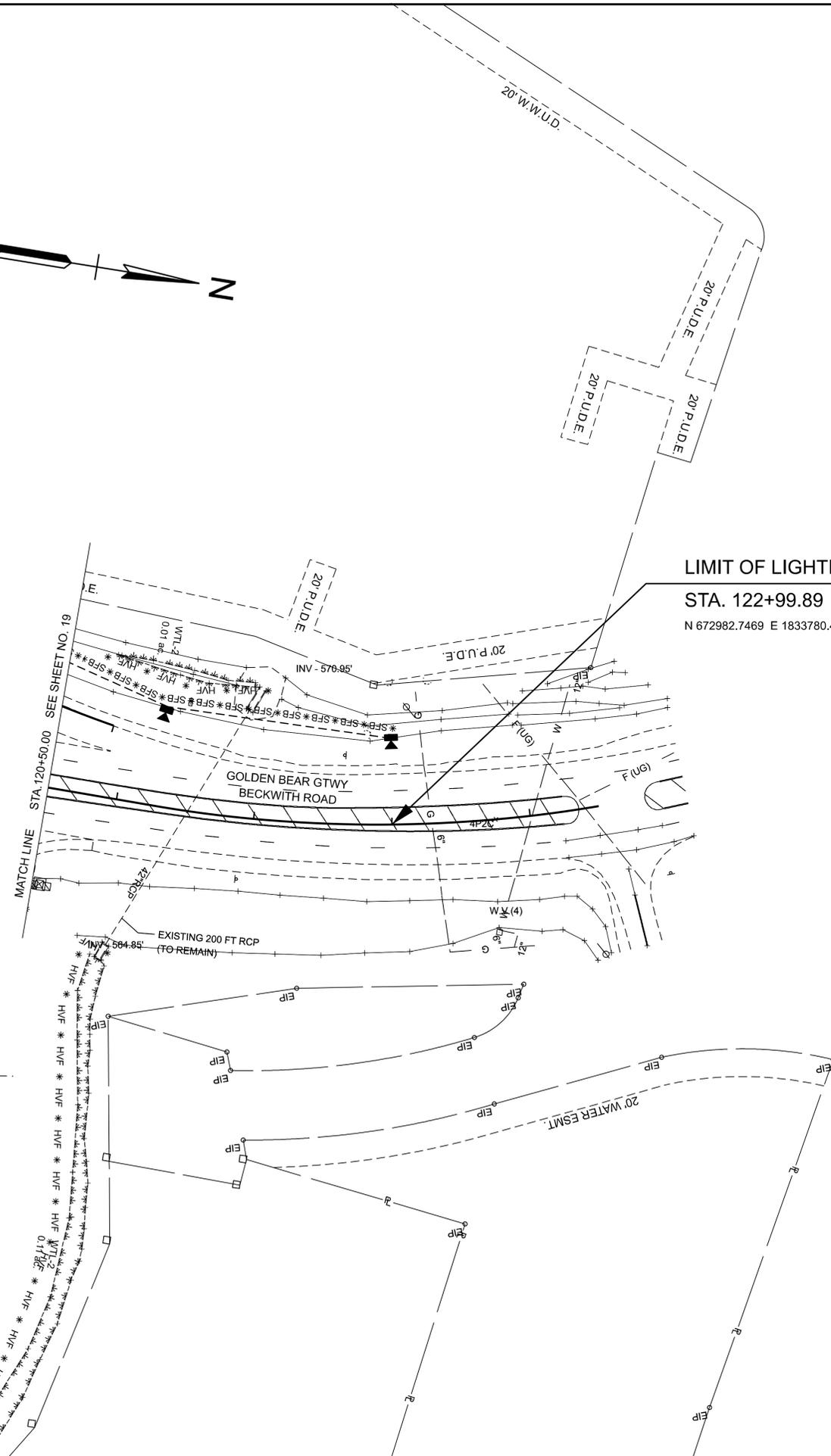
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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND  
SEDIMENT CONTROL (EPSC)  
PLANS

STA. 171+00.00 TO STA. 181+00.00  
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PLAN-IN-HAND	2025	95I040-S3-011	22
PS&E	2026	95I040-S3-011	22



**LIMIT OF LIGHTING**

STA. 122+99.89 GOLDEN BEAR GATEWAY/  
N 672982.7469 E 1833780.4480 BECKWITH ROAD

**LEGEND**

-  PROPOSED LED OFFSET LUMINAIRE ON NEW LIGHT STANDARD (155W LED, 45FT MH, 15 DEGREE TILT, LUMINAIRES OPERATE AT 240V)
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-  PROPOSED DIRECTIONAL DRILL CONDUIT

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

**EROSION PREVENTION AND  
SEDIMENT CONTROL (EPSC)  
PLANS**

STA. 120+50.00 TO STA. 124+50.00  
SCALE: 1" = 50'

9/19/2025 10:43:16 AM C:\PROGRAMDATA\BENTLEY\OPENROADS DESIGNER CE 10.12\CONFIGURATION\WORKSPACE\TDOT\_STANDARD\WORKSPACE\TDOT\_STANDARDS\WORKSETS\133855-00-WILSON-GES9508825\DGN\951040-09-GES-SIGNATURESHEET-BESMIR.DGN



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

**Besmir Zenelaku** Digitally signed by Besmir Zenelaku  
Date: 2025.11.06 10:58:16 -06'00'

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TENNESSEE DEPARTMENT OF TRANSPORTATION  
MATERIALS & TESTS DIVISION-GEOTECHNICAL ENGINEERING SECTION  
6601 CENTENNIAL BLVD.  
NASHVILLE, TN 37243  
BESMIR ZENELAKU, P.E. NO. 124664

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS .....	GEOTECH-SIGN1
GEOTECHNICAL PLANS .....	G-1 – G-6

YEAR	PROJECT NO.	SHEET NO.
2026	951040-S3-011	GEOTECH-SIGN1

**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

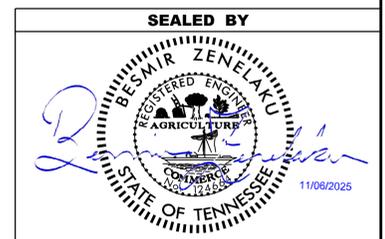
**SIGNATURE  
SHEET**

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	95I040-S3-011	G-1

# GEOTECHNICAL INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET .....	GEOTECH-SIGN1
GEOTECHNICAL INDEX.....	G-1
GEOTECHNICAL NOTES .....	G-2
HIGH-MAST LIGHTING SOIL AND ROCK PARAMETERS .....	G-3
GEOTECHNICAL BORING LAYOUT .....	G-4, G-5
GEOTECHNICAL BORING PROFILE.....	G-6

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**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

GEOTECHNICAL  
INDEX

# DEFINITION OF EARTHWORK TERMS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	951040-S3-011	G-2

THE TERMS AND DEFINITIONS BELOW SHALL CHARACTERIZE THE MATERIAL TYPE THAT WILL BE ENCOUNTERED DURING EXCAVATION AND GRADING. SEE TYPE MATERIAL REFERENCE IN TYPICAL SECTIONS LEGEND.

## A. SOIL MATERIAL

SOIL MATERIAL IS MATERIAL THAT IS PREDOMINANTLY MADE UP OF NATURALLY OCCURRING MINERAL PARTICLES WHICH ARE FAIRLY READILY SEPARATED INTO RELATIVELY SMALL PIECES, AND IN WHICH THE MASS MAY CONTAIN AIR, WATER OR ORGANIC MATERIALS. THIS MATERIAL MAY CONTAIN ROCK PIECES IN THE FORM OF DISCONNECTED SLABS, LENSES, OR BOULDERS OF LESS THAN APPROXIMATELY 0.5 CUBIC YARDS. THE MAIN SOIL GROUPS CONSIST OF CLAY, SILT, SAND, GRAVEL, COBBLES, BOULDERS (LESS THAN 0.5 CUBIC YARD VOLUME) OR A COMBINATION OF ANY OF THE CONSTITUENTS. FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY BE CONSIDERED TO BE EXCAVATABLE BY CONVENTIONAL EXCAVATION MACHINERY SUCH AS PANS, TRACK HOES, OR FRONT-END EXCAVATORS/LOADERS.

## B. SOLID ROCK MATERIAL

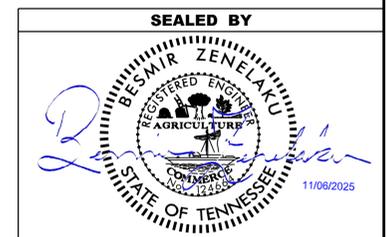
SOLID ROCK MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES SO FIRMLY BONDED TOGETHER THAT RELATIVELY GREAT EFFORT IS REQUIRED TO SEPARATE THE PARTICLES (I.E. BLASTING OR HEAVY CRUSHING FORCES). FOR CONSTRUCTION PURPOSES, THIS MATERIAL WOULD TYPICALLY HAVE TO BE BLASTED TO SEPARATE INTO PIECES SMALL ENOUGH TO LOAD AND TRANSPORT ON EARTH MOVING TRUCKS AND WHICH WHEN SUBJECTED TO PROPER PRE-SPLIT AND PRODUCTION BLASTING WOULD RESULT IN A UNIFORM STABLE ROCK CUT FACE. NOTE THAT THIS MATERIAL WOULD NOT BY DEFINITION NECESSARILY BE A PROVEN SOURCE OF ANY ROCK TYPE AGGREGATE SUCH AS SOLID ROCK, GRADED SOLID ROCK, RIP RAP, OR OTHER ROCK AGGREGATE CONSTRUCTION PRODUCTS.

## C. SOFT ROCK OR DEGRADABLE ROCK

THIS MATERIAL IS THAT NATURALLY OCCURRING MATERIAL COMPOSED OF MINERAL PARTICLES THAT ARE SO FIRMLY BONDED SUCH THAT THEY ARE NOT FAIRLY READILY SEPARATED INTO SMALL PIECES YET HAS SUCH RELATIVELY LOW BONDING STRENGTH THAT WOULD ALLOW FOR SEPARATING INTO SMALL PIECES THROUGH MODERATE TO HEAVY CRUSHING FORCES. FOR CONSTRUCTION PURPOSES THIS MATERIAL WOULD HAVE TO BE SUBJECTED TO RIPPING TYPE EQUIPMENT, HOE RAMS, OR RUGGED USE OF A LARGE BULLDOZER IN ORDER TO SEPARATE THE MATERIAL SUCH THAT IT CAN BE READILY LOADED INTO EARTH MOVING TRUCKS. THESE MATERIALS WOULD TYPICALLY BE SHALES, CLAYSTONES, SILTSTONES, WEATHERED SANDSTONES, WEATHERED SCHIST AND WEATHERED GNEISS.

## D. TRANSITIONAL MATERIALS

THIS MATERIAL IS THAT MATERIAL COMPRISED OF A COMBINATION OF SOIL AND ROCK (MATERIALS A, B, AND C) OCCURRING IN EITHER NON-UNIFORM INTERBEDDED LAYERS OF THE ABOVE MATERIALS (I.E. SHALE MATERIAL WITH RELATIVELY THIN LAYERS OF SOLID ROCK SUCH AS HARD LIMESTONE) OR ERRATIC LOCALIZED CHANGES OF MATERIAL TYPES BOTH Laterally AND WITH DEPTH (SUCH AS A GEOLOGIC FORMATION RESULTING IN PINNACLED ROCK COLUMNS, FLOATING BOULDERS OR LENSES INTERCALATED WITH CLAY SOIL, A COMMON OCCURRENCE IN CERTAIN REGIONS OF TENNESSEE). FOR CONSTRUCTION PURPOSES, THIS MATERIAL MAY HAVE TO BE EXCAVATED USING A COMBINATION OF EXCAVATION METHODS SUCH AS BLASTING OF ROCK PINNACLES, LAYERS OR BOULDERS ALONG WITH A RIPPING OF WEATHERED ROCK AND EXCAVATING OF SOIL WITH TRACK HOES OR LOADERS ALL WITHIN A LOCALIZED AREA. THIS MATERIAL WOULD NOT BE SUITABLE FOR THE USE OF EXCAVATING PAN TYPE EQUIPMENT.



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL  
NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	95I040-S3-011	G-3

HIGH-MAST LIGHTING TOWER 1																	
ZONE	SOIL / ROCK TYPES	DEPTH (FT)				TOTAL UNIT WEIGHT (pcf)	SHEAR STRENGTH PARAMETERS				LATERAL LOAD PARAMETERS					ROCK RESISTANCE PARAMETERS	
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)		STRAIN, E <sub>50</sub>	SOIL MODULUS, K <sub>s</sub> (PCI)*	ROCK ELASTIC MODULUS, E <sub>u</sub> (KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	CLAY	0.0	16.8	633.9	617.1	95	750	NA	25	20	0.020	30	NA	NA	NA	NA	NA
2	LIMESTONE	16.8	26.0	617.1	607.9	160	NA	NA	5000	45	0.001	NA	830	0.23	12	534.4	38.5
3	LIMESTONE	26.0	30.1	607.9	603.8	160	NA	NA	5000	45	0.001	NA	830	0.23	12	551.3	38.5

\*POUNDS PER CUBIC INCH  
\*\*CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 2																	
ZONE	SOIL / ROCK TYPES	DEPTH (FT)				TOTAL UNIT WEIGHT (pcf)	SHEAR STRENGTH PARAMETERS				LATERAL LOAD PARAMETERS					ROCK RESISTANCE PARAMETERS	
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)		STRAIN, E <sub>50</sub>	SOIL MODULUS, K <sub>s</sub> (PCI)*	ROCK ELASTIC MODULUS, E <sub>u</sub> (KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	CLAY	0.0	21.4	638.5	617.1	95	1000	NA	100	20	0.007	500	NA	NA	NA	NA	NA
2	LIMESTONE	21.4	26.0	617.1	612.5	160	NA	NA	3000	45	0.001	NA	810	0.23	12	248.1	37.4
3	LIMESTONE	26.0	28.0	612.5	610.5	160	NA	NA	3000	45	0.001	NA	810	0.23	12	356.7	37.4
4	MUD SEAM	28.0	29.1	610.5	609.4	95	250	NA	25	18	0.020	30	NA	NA	NA	NA	NA
5	LIMESTONE	29.1	30.8	609.4	607.7	160	NA	NA	3000	45	0.001	NA	810	0.23	12	240.7	37.4

\*POUNDS PER CUBIC INCH  
\*\*CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 3																	
ZONE	SOIL / ROCK TYPES	DEPTH (FT)				TOTAL UNIT WEIGHT (pcf)	SHEAR STRENGTH PARAMETERS				LATERAL LOAD PARAMETERS					ROCK RESISTANCE PARAMETERS	
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)		STRAIN, E <sub>50</sub>	SOIL MODULUS, K <sub>s</sub> (PCI)*	ROCK ELASTIC MODULUS, E <sub>u</sub> (KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	CLAY	0.0	4.5	637.0	632.5	95	750	NA	75	20	0.010	100	NA	NA	NA	NA	NA
2	WEATHERED LIMESTONE	4.5	6	632.5	631.0	120	NA	NA	1000	38	0.001	NA	NA	NA	NA	NA	NA
3	LIMESTONE	6.0	16.9	631.0	620.1	160	NA	NA	6800	45	0.001	NA	870	0.23	12	669.2	39.9
4	MUD SEAM	16.9	17.6	620.1	619.4	95	250	NA	25	18	0.020	30	NA	NA	NA	NA	NA
5	LIMESTONE	17.6	23.9	619.4	613.1	160	NA	NA	7000	45	0.001	NA	870	0.23	12	699.2	39.9
6	MUD SEAM	23.9	24.4	613.1	612.6	95	250	NA	25	18	0.020	30	NA	NA	NA	NA	NA
7	LIMESTONE	24.4	26	612.6	611.0	160	NA	NA	7000	45	0.001	NA	870	0.23	12	706.9	39.9
8	LIMESTONE	26	31.1	611.0	605.9	160	NA	NA	7000	45	0.001	NA	870	0.23	12	726.9	39.9

\*POUNDS PER CUBIC INCH  
\*\*CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 4																	
ZONE	SOIL / ROCK TYPES	DEPTH (FT)				TOTAL UNIT WEIGHT (pcf)	SHEAR STRENGTH PARAMETERS				LATERAL LOAD PARAMETERS					ROCK RESISTANCE PARAMETERS	
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)		STRAIN, E <sub>50</sub>	SOIL MODULUS, K <sub>s</sub> (PCI)*	ROCK ELASTIC MODULUS, E <sub>u</sub> (KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	CLAY	0.0	12.2	633.0	620.8	95	75	NA	75	20	0.010	100	NA	NA	NA	NA	NA
2	LIMESTONE	12.2	17.7	620.8	615.3	160	NA	NA	2500	45	0.001	NA	830	0.23	12	340.1	38.2
3	WEATHERED LIMESTONE	17.7	18.3	615.3	614.7	120	NA	NA	1000	38	0.001	NA	NA	NA	NA	NA	NA
4	LIMESTONE	18.3	26.0	614.7	607.0	160	NA	NA	3000	45	0.001	NA	830	0.23	12	375.8	38.2
5	LIMESTONE	26	31.4	607.0	601.6	160	NA	NA	3000	45	0.001	NA	830	0.23	12	396.3	38.2

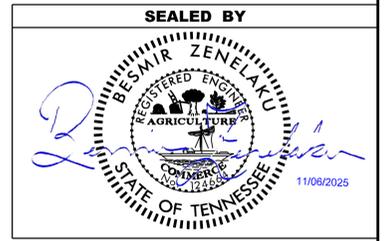
\*POUNDS PER CUBIC INCH  
\*\*CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 5																	
ZONE	SOIL / ROCK TYPES	DEPTH (FT)				TOTAL UNIT WEIGHT (pcf)	SHEAR STRENGTH PARAMETERS				LATERAL LOAD PARAMETERS					ROCK RESISTANCE PARAMETERS	
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)		STRAIN, E <sub>50</sub>	SOIL MODULUS, K <sub>s</sub> (PCI)*	ROCK ELASTIC MODULUS, E <sub>u</sub> (KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	CLAY	0.0	2.4	627.9	625.5	95	75	NA	75	20	0.010	100	NA	NA	NA	NA	NA
2	WEATHERED LIMESTONE	2.4	9.0	625.5	618.9	120	NA	NA	1000	38	0.001	NA	NA	NA	NA	NA	NA
3	LIMESTONE	9.0	26.0	618.9	601.9	160	NA	NA	3800	45	0.001	NA	910	0.23	12	540.3	42.4
4	LIMESTONE	26.0	31.8	601.9	596.1	160	NA	NA	3800	45	0.001	NA	910	0.23	12	564.0	42.4

\*POUNDS PER CUBIC INCH  
\*\*CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

HIGH-MAST LIGHTING TOWER 6																	
ZONE	SOIL / ROCK TYPES	DEPTH (FT)				TOTAL UNIT WEIGHT (pcf)	SHEAR STRENGTH PARAMETERS				LATERAL LOAD PARAMETERS					ROCK RESISTANCE PARAMETERS	
		SURFACE		ELEVATION			UNDRAINED (SHORT-TERM)		DRAINED (LONG-TERM)		STRAIN, E <sub>50</sub>	SOIL MODULUS, K <sub>s</sub> (PCI)*	ROCK ELASTIC MODULUS, E <sub>u</sub> (KSI)	ROCK POISSON'S RATIO	ROCK MATERIAL INDEX, M	NOMINAL BEARING (KSF)	NOMINAL SIDE (KSF)**
		FROM	TO	FROM	TO		COHESION (PSF)	φ (DEGREE)	COHESION (PSF)	φ (DEGREE)							
1	FILL	0.0	5.0	647.2	642.2	95	250	NA	25	18	0.020	30	NA	NA	NA	NA	NA
2	CLAY	5.0	9.2	642.2	638.0	95	375	NA	25	20	0.020	30	NA	NA	NA	NA	NA
3	MUD SEAM	9.2	15.0	638.0	632.2	95	250	NA	25	18	0.020	30	NA	NA	NA	NA	NA
4	LIMESTONE	15.0	18.2	632.2	629.0	190	NA	NA	1500	38	0.001	NA	910	0.23	12	188.5	42.4
5	MUD SEAM	18.2	25.9	629.0	621.3	95	250	NA	25	18	0.020	30	NA	NA	NA	NA	NA
6	LIMESTONE	25.9	26.0	621.3	621.2	190	NA	NA	2200	45	0.001	NA	910	0.23	12	510.7	42.4
7	LIMESTONE	26.0	35.4	621.2	611.8	190	NA	NA	2200	45	0.001	NA	910	0.23	12	552.0	42.4

\*POUNDS PER CUBIC INCH  
\*\*CONCRETE WILL CONTROL AT 30.3 KSF FOR 3 KSI CONCRETE OR 34.9 KSF FOR 4 KSI CONCRETE

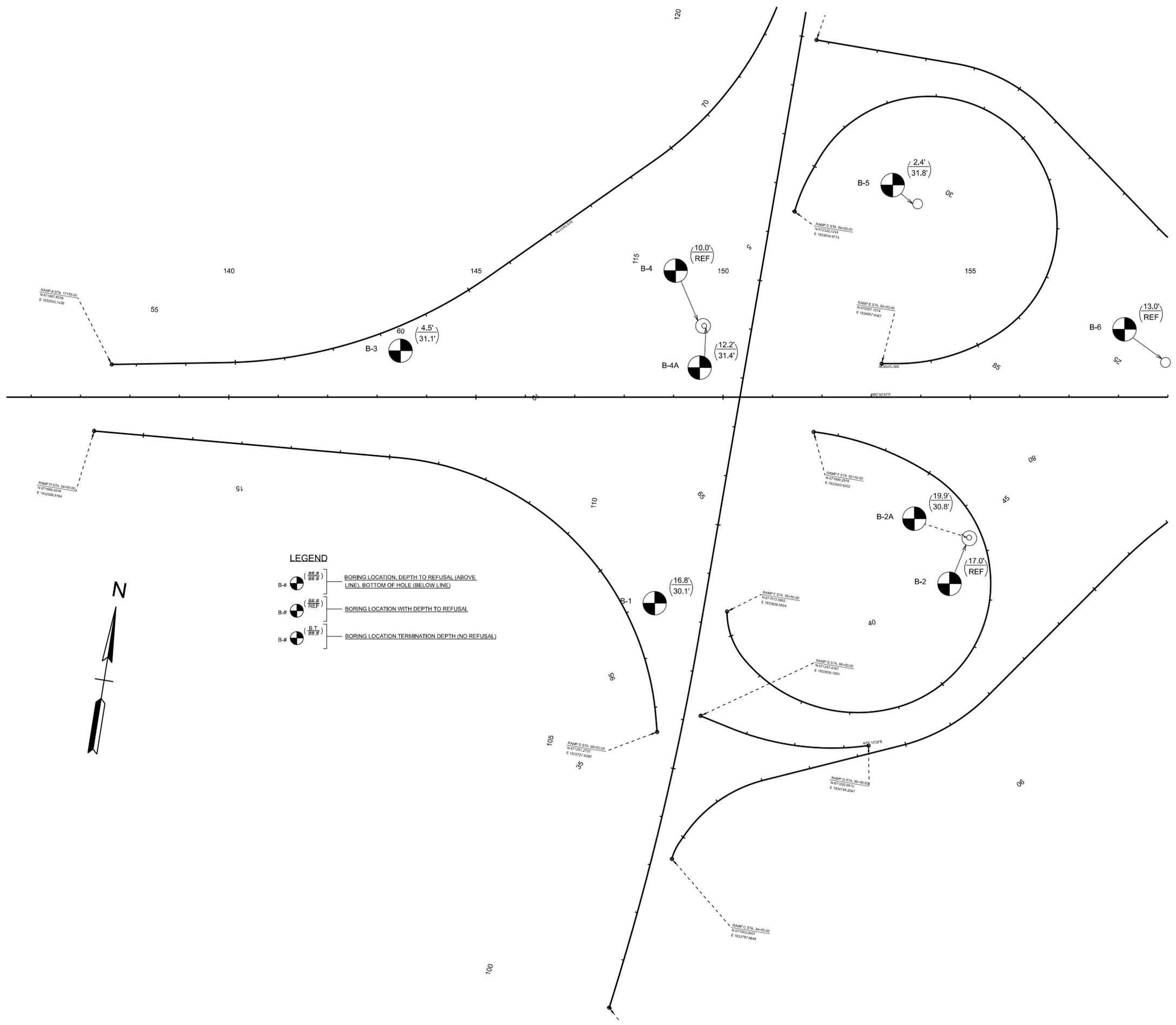


**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

HIGH-MAST LIGHTING  
SOIL AND ROCK  
PARAMETERS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	951040-S3-011	G-4



**LEGEND**

- B-# (###' / ###') BORING LOCATION, DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)
- B-# (###' REF) BORING LOCATION WITH DEPTH TO REFUSAL
- B-# (B.T. / ###') BORING LOCATION TERMINATION DEPTH (NO REFUSAL)

**SEALED BY**

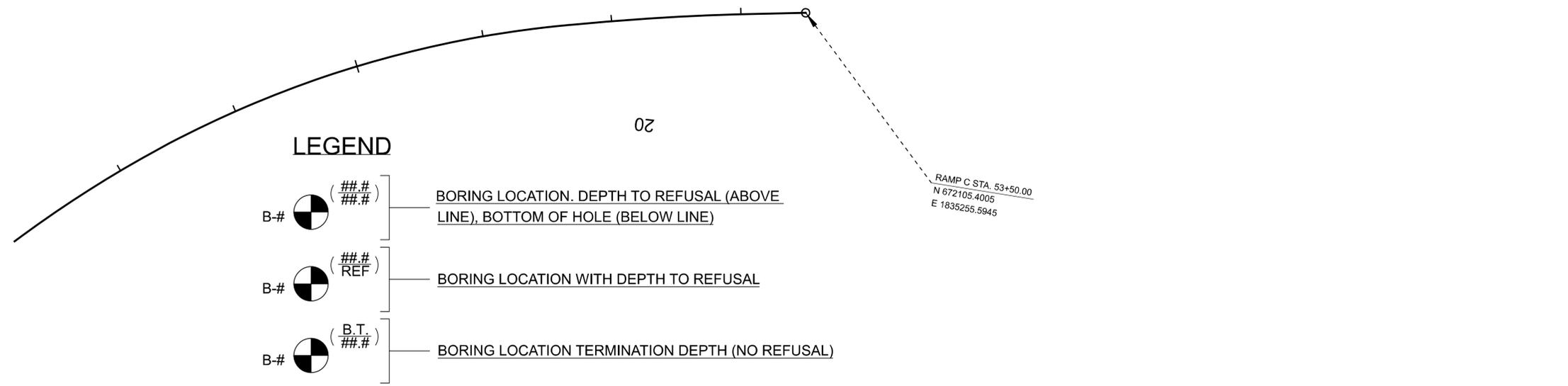
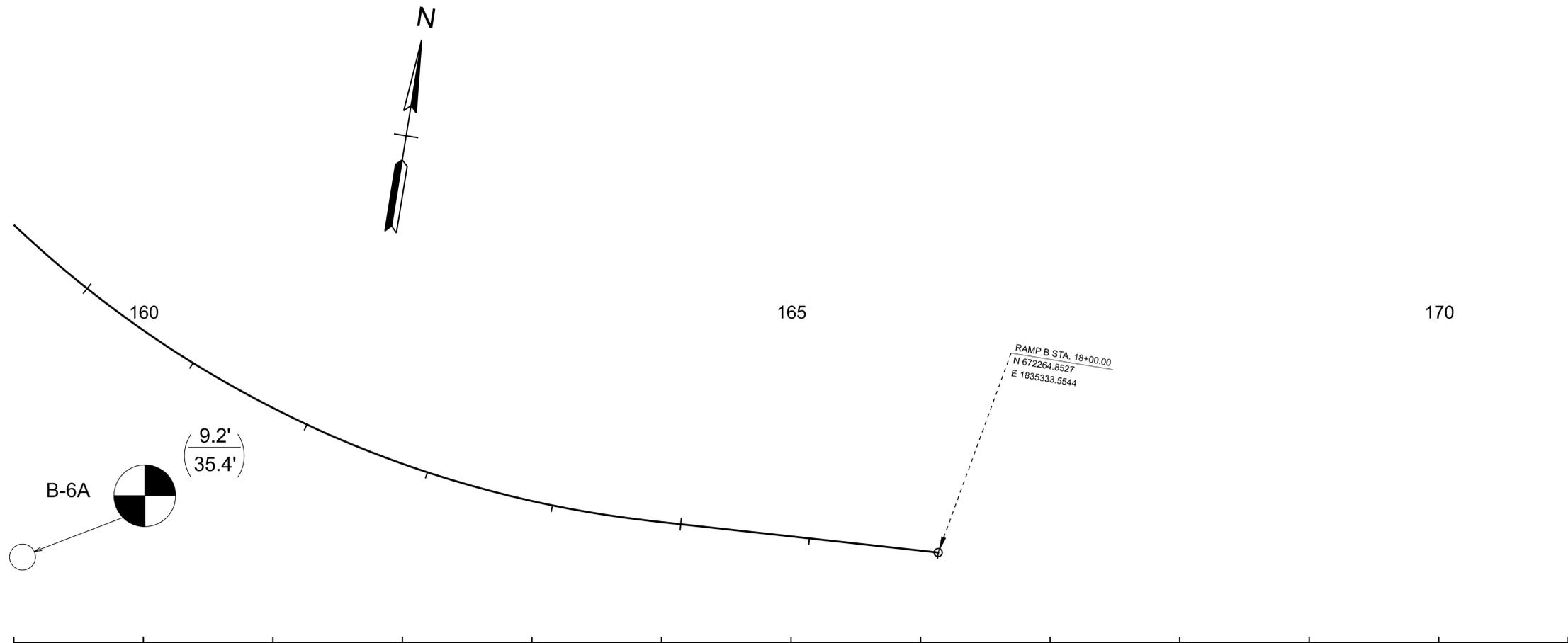
COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

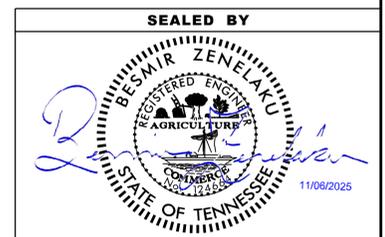
**GEOTECHNICAL  
BORING LAYOUT**

STA. 135+50 TO STA. 159+00  
SCALE: 1" = 100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	95I040-S3-011	G-5



- LEGEND**
- B-# (###.#  
###.#) — BORING LOCATION. DEPTH TO REFUSAL (ABOVE LINE), BOTTOM OF HOLE (BELOW LINE)
  - B-# (###.#  
REF) — BORING LOCATION WITH DEPTH TO REFUSAL
  - B-# (B.T.  
###.#) — BORING LOCATION TERMINATION DEPTH (NO REFUSAL)



COORDINATES ARE NAD 83(2011), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 18.

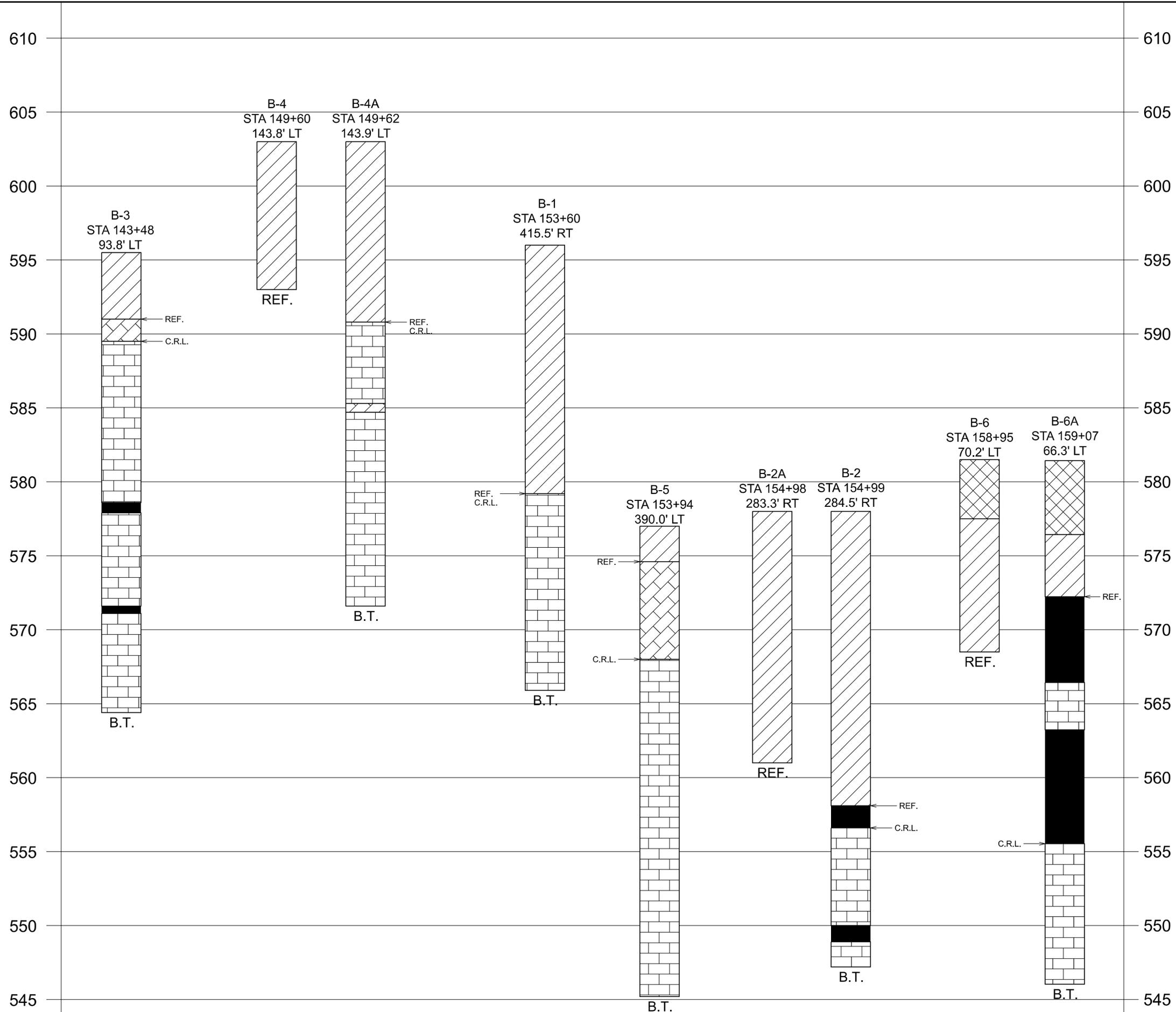
**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**GEOTECHNICAL  
BORING LAYOUT**

STA. 159+00 TO STA. 171+00  
SCALE: 1" = 50'

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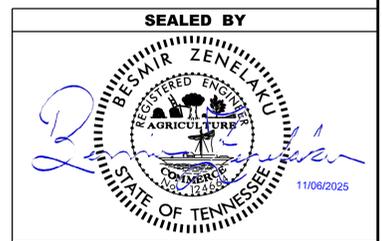
TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2026	95I040-S3-011	G-6



NOTE: STATIONING IS NOT TO SCALE

**LEGEND**

- FILL
  - MUD SEAM
  - CLAY (TYPE A MATERIAL)
  - WEATHERED LIMESTONE (TYPE B MATERIAL)
  - LIMESTONE (TYPE B MATERIAL)
- TYPE MATERIAL - SEE DEFINITION OF EARTHWORK TERMS ON GEOTECHNICAL NOTES AND EST. QTY. SHEET.  
 B.T. = BORING TERMINATED  
 REF. = AUGER REFUSAL  
 C.R.L. = COMPETENT ROCK LINE



STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION

GEOTECHNICAL  
 BORING  
 PROFILE

TENN.	YEAR	SHEET NO.
	2026	U1-1
STATE PROJ. NO.	95I040-S3-011	
FED. PROJ. NO.		

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING

Index Of Sheets	
SHEET NAME	SHEET NUMBER
UTILITIES INDEX, UTILITIES OWNERS AND UTILITY SHEETS	U1-1

# WILSON COUNTY

I-40, INTERCHANGE AT GOLDEN BEAR GATEWAY/BECKWITH ROAD

STATE HIGHWAY NO. I-40 F.A.H.S. NO. I-40

**THERE ARE NO UTILITIES IN CONFLICT WITH THIS PROJECT.**

STANDARD LEGEND	
<b>EXISTING UTILITIES</b>	
POWER _____ P _____	POWER POLE ⊕
TELEPHONE _____ T _____	TELEPHONE POLE ⊕
WATER _____ W _____	POWER/TELEPHONE POLE ⊕
CABLE TV _____ C _____	MANHOLE ⊕
SANITARY SEWER _____ SA _____	WATER METER □ W.M.
UNDERGROUND TELEPHONE _____ T (UG) _____	WATER VALVE □ W.V.
GAS _____ G _____	LIGHT POLE ○
FORCE MAIN SEWER _____ FMS _____	POWER POLE ● P
UNDERGROUND POWER _____ P (UG) _____	TELEPHONE POLE ● T
UNDERGROUND FIBER OPTIC _____ F (UG) _____	WATER METER ■ W.M.
<b>PROPOSED UTILITIES &amp; MODIFICATIONS</b>	
POWER _____ P _____	(R) REMOVE
UNDERGROUND POWER _____ P (UG) _____	(RIP) RETIRE IN PLACE
TELEPHONE _____ T _____	
WATER _____ W _____	
CABLE TV _____ C _____	
SANITARY SEWER _____ SA _____	
UNDERGROUND TELEPHONE _____ T (UG) _____	
GAS _____ G _____	
FORCE MAIN SEWER _____ FMS _____	
UNDERGROUND FIBER OPTIC _____ F (UG) _____	
EX. WATER LINE (RETIRED IN PLACE) ----- 6" W RIP -----	
EX. GAS LINE (RETIRED IN PLACE) ----- 8" G RIP -----	
EX. SEWER LINE (RETIRED IN PLACE) ----- 8" FMS RIP -----	
EX. TELEPHONE LINE (RETIRED IN PLACE) ----- T(UG) RIP -----	

UTILITY OWNERS AND CONTACTS:		
<b>POWER:</b>	MIDDLE TENNESSEE ELECTRIC 201 MADDOX-SIMPSON PKWY LEBANON, TN 37090 BRAD TRICE BRADTRICE@MTE.COM C: 615-453-3078	POWER: TENNESSEE VALLEY AUTHORITY 1101 MARKET STREET, MR-4G CHATTANOOGA, TN 37402 STEPHEN WILLIAMS SEWILLIAMS@TVA.GOV O: 662-255-6272
<b>SEWER:</b>	CITY OF MT. JULIET 71 EAST HILL DRIVE MT. JULIET, TN 37122 TIM FORKUM TFORKUM@MTJULIET-TN.GOV O: 615-773-7957	WATER: WEST WILSON UTILITY DISTRICT 10960 LEBANON ROAD MT. JULIET, TN 37122 BRENT FINLEY BRENTF@WESTWILSONUTILITY.COM O: 615-754-1520 C: 615-715-3340
<b>PHONE:</b>	AT&T 116 SOUTH CANNON AVE MURFREESBORO, TN 37129 LEE KORNEGAY KK4096@ATT.COM O: 615-848-2082 C: 615-631-7221	CABLE TV: COMCAST 660 MAINSTREAM DRIVE NASHVILLE, TN 37228 KEVIN NIPPER KEVINLEE.NIPPER@COMCAST.COM C: 615-626-3325
	PHONE: TDS TELECOM 5265 MURFREESBORO ROAD LA VERGNE, TN 37086 SEAN HARKINS SEAN.HARKINS@TDSTELECOM.COM O: 615-793-1092 C: 615-476-4628	FIBER OPTIC: XO COMMUNICATIONS (VERIZON) 101 MOLLOY STREET, SUITE 300 NASHVILLE, TN 37201 DEREK DEE DEREK.R.DEE@VERIZON.COM C: 615-207-1297

**SPECIAL NOTES**

SOME UTILITIES CAN BE LOCATED BY CALLING THE  
TENNESSEE ONE CALL SYSTEM, INC.  
AT 1-800-351-1111

NOTE TO CONTRACTORS	UNDERGROUND UTILITIES NOTE	NOTE TO CONTRACTORS
CONTRACTOR TO FOLLOW ALL ADA RULES PERTAINING TO SIDEWALKS	ALL UNDERGROUND UTILITIES MUST BE DIRECTIONAL BORED UNDER ALL STREAMS IDENTIFIED IN THE PLANS	DIRECTIONAL BORING MUST BE PLACED A MINIMUM OF 50' AWAY FROM STREAM BANKS

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