

04-MAR-2025 11:01 AM
\\dot\dfsroot\01\Groups-RDCC\Specialty Functions\Lighting & Electrical\Projects\TIP Projects\U-4758 Sandy Ridge RD & I-40 Light Relocation Guildford Co Div
skseha AT RD-329575L

02/03/98

GENERAL NOTES

- CIRCUIT AND JUNCTION BOX LOCATIONS MAY BE FIELD ADJUSTED AS REQUIRED TO STAY WITHIN THE LIMITS OF CONSTRUCTION, WITHIN RIGHT-OF-WAY, OUT OF DITCH LINES, AWAY FROM FENCE POSTS, GUARDRAILS AND CABLE GUIDERAILS, AND TO CLEAR OBSTRUCTIONS. ADJUSTMENTS RESULTING IN AN OVERALL INCREASE OF 3% OR MORE TO ANY CIRCUIT LENGTH REQUIRES APPROVAL FROM THE ENGINEER.
- LOCATE ALL JUNCTION BOXES OUTSIDE CLEAR ZONE AND IN AN AREA UNLIKELY TO BE USED BY TRAFFIC.
- ALL IN GROUND JUNCTION BOXES DEPTHS SHALL BE 18" UNLESS OTHERWISE NOTED. SEE DETAIL SHEETS FOR FORMED OPENING DEPTHS.
- CONTRACTOR SHALL RECORD THE GPS COORDINATES OF EACH JUNCTION BOX WITHIN 3' ACCURACY, IN THE JUNCTION BOX SUMMARY, TABLE "C". PROVIDE A COPY OF THE JUNCTION BOX SUMMARY WITH THESE COORDINATES TO THE LIGHTING ENGINEER DURING PROJECT INSPECTION. COORDINATES ARE NOT REQUIRED FOR FORMED OPENINGS.
- JUNCTION BOXES SHOWN NEAR LIGHT STANDARDS (LSJB & HMJB) ARE SHOWN FOR CLARITY. THESE JUNCTION BOXES ARE TO BE USED AS A TEE POINT FOR CIRCUITRY TO THE STANDARD, AND SHALL BE INSTALLED FOR BEST ALIGNMENT OF CIRCUITRY WHILE MAINTAINING THE OFFSETS SHOWN IN TABLE "C". SEE STANDARD DRAWINGS 1401.01 AND 1406.01 FOR INSTALLATION DETAILS.
- INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE ENGINEER.
- INSTALL RIGID GALVANIZED CONDUIT (RGC) ABOVE GROUND, AND POLYVINYL CHLORIDE (PVC) SCHEDULE 40 CONDUIT UNDERGROUND, EXCEPT AS MODIFIED ON THESE PLANSHEETS OR IN APPLICABLE SECTIONS OF THE ROADWAY STANDARD DRAWINGS FOR THIS PROJECT.

NOTES

- TIE IN EXISTING LIGHTING FEEDER CIRCUIT AT THIS LSJB.
- TIE IN NEW FEEDER CIRCUIT WIRE DRAWN THROUGH EXISTING CONDUIT IN THIS EXISTING JB.
- CUT EXISTING CONDUIT AND CIRCUIT HERE, INSTALL A JB, REPLACE THE OLD CIRCUIT WITH A NEW ONE IN THE EXISTING CONDUIT,

SCOPE OF WORK

PLACE ROADWAY LIGHTING SYSTEM INTO SERVICE BY RELOCATING AND INSTALLING EXISTING LIGHT STANDARDS WITH LUMINAIRES, UNDERGROUND CIRCUITRY AND JUNCTION BOXES.

DESIGN CRITERIA

2020 NATIONAL ELECTRICAL CODE

2011 AASHTO ROADSIDE DESIGN GUIDE

2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION AND LATEST INTERIM SPECIFICATIONS VALID AT THE TIME OF LETTING (HANDHOLE SHAFT DIAMETER REQUIREMENT AND HANDHOLE PLACEMENT REQUIREMENT WAIVED)

PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

ROADWAY STANDARDS

STD NO.	TITLE
1404.01	LIGHT STANDARDS
1405.01	STANDARD FOUNDATION
1406.01	LIGHT STANDARD LUMINAIRES
1409.01	ELECTRICAL DUCT
1410.01	FEEDER CIRCUITS
1411.01	ELECTRICAL JUNCTION BOXES

ALL WORK SHALL BE IN CONFORMANCE WITH DIVISION 14 OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, DATED JANUARY 2024.

THE FOLLOWING ROADWAY ENGLISH STANDARDS AS APPEAR IN "NCDOT ROADWAY STANDARD DRAWINGS", ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

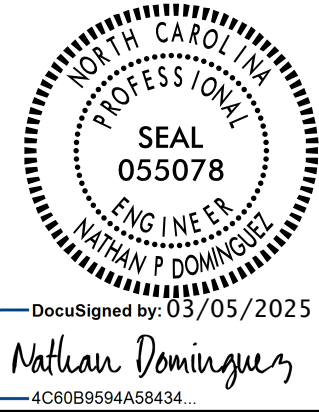
PROJECT REFERENCE NO.

U-4758

SHEET NO.

E-1

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



LEGEND

- EXISTING 100' HIGH MAST STANDARD (HM1) (FOR LOCATION REFERENCE ONLY)
- EXISTING SINGLE ARM LIGHT STANDARD (#1) TO BE REMOVED AND RELOCATED. ABANDON OR REMOVE FOUNDATION.
- RELOCATED LIGHT STANDARD (#1) TYPE MTLT 45' WITH 15' SINGLE ARM. INCLUDES STANDARD FOUNDATION TYPE R1 OR R2, JUNCTION BOX WITH ROADWAY LUMINAIRE.
- EXISTING SINGLE ARM LIGHT STANDARD (#10) TO BE CONNECTED TO A NEW CIRCUIT IN A JB AT THIS LOCATION.
- EXISTING ELECTRICAL JUNCTION BOX, WHERE NEW FEEDER CIRCUIT WIRE DRAWN THROUGH EXISTING CONDUIT SHALL CONNECT.
- EXISTING ELECTRICAL JUNCTION BOX. REMOVE UNLESS OTHERWISE NOTED ON THE PLANS.
- PROPOSED ELECTRICAL JUNCTION BOX (JB25). SEE TABLE C FOR DETAILS AND TYPE.
- REPLACE FEEDER CIRCUIT IN EXISTING CONDUIT. CONTROL SYSTEM (A), CIRCUIT NUMBER (1) PLAN SYMBOL (6). SEE TABLE A, THIS SHEET.
- EXISTING FEEDER CIRCUIT IN EXISTING CONDUIT. CONTROL SYSTEM (A), CIRCUIT NUMBER (1).
- PROPOSED FEEDER CIRCUIT. CONTROL SYSTEM (A), CIRCUIT NUMBER (1) PLAN SYMBOL (6). SEE TABLE A, THIS SHEET.
- ABANDON EXISTING FEEDER CIRCUIT.
- PROPOSED ELECTRICAL DUCT SIZE 2", 3" OR 4" TYPE (TL) OR (BD) LOCATION: SEE TABLE B.
- 2", 3" OR 4" ELEC. DUCT TL & BD
- REFERENCE TO CORRESPONDING DELTA NOTE AS NUMBERED.

ABBREVIATIONS

BD	BURIED	PVC	PVC SCHEDULE 40 CONDUIT
LT	LIGHT	RGC	RIGID GALVANIZED STEEL CONDUIT
TL	TRENCHLESS	C	CONDUIT
MH	MOUNTING HEIGHT	CKT	CIRCUIT
Ø	PHASE	N	NEUTRAL
SER LAT	SERVICE LATERAL	G	GROUND
IGJB	IN GROUND JUNCTION BOX	HM	HIGH MAST
LED	LIGHT EMITTING DIODE	LSJB	LIGHT STANDARD JUNCTION BOX
ABN.	ABANDON	CSJB	CONTROL SYSTEM JUNCTION BOX

COMPUTED BY: SKS
CHECKED BY: RGH

DATE: 02-12-2025
DATE: