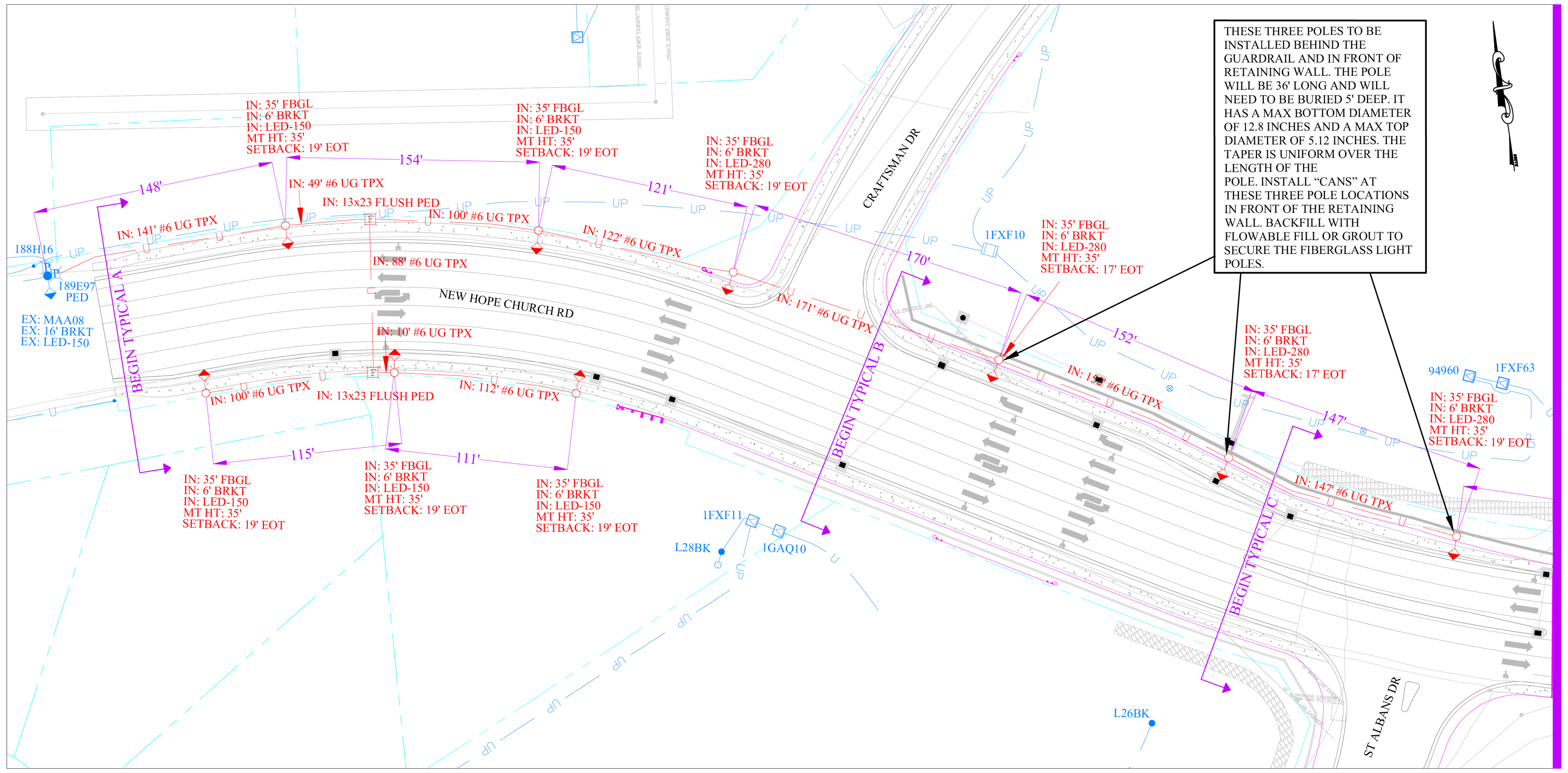
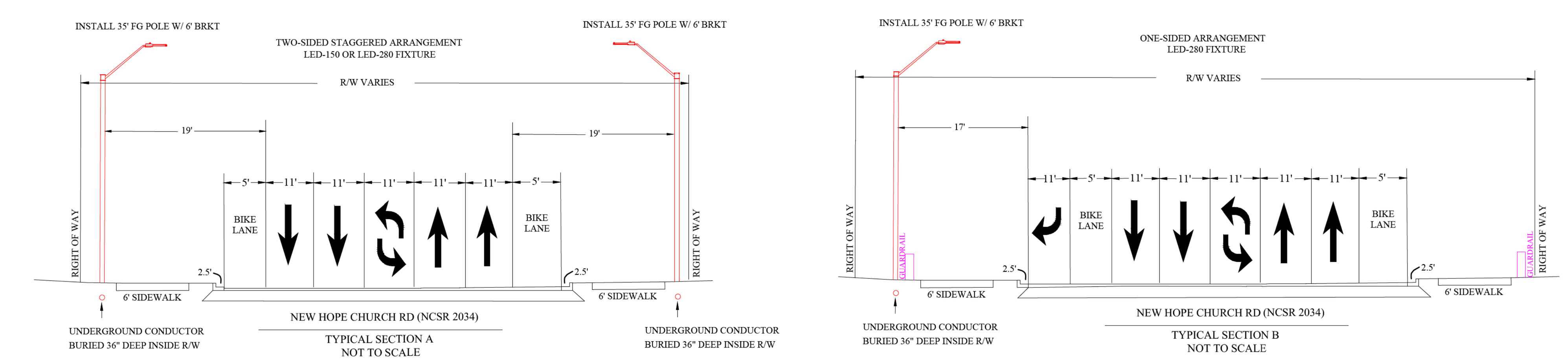
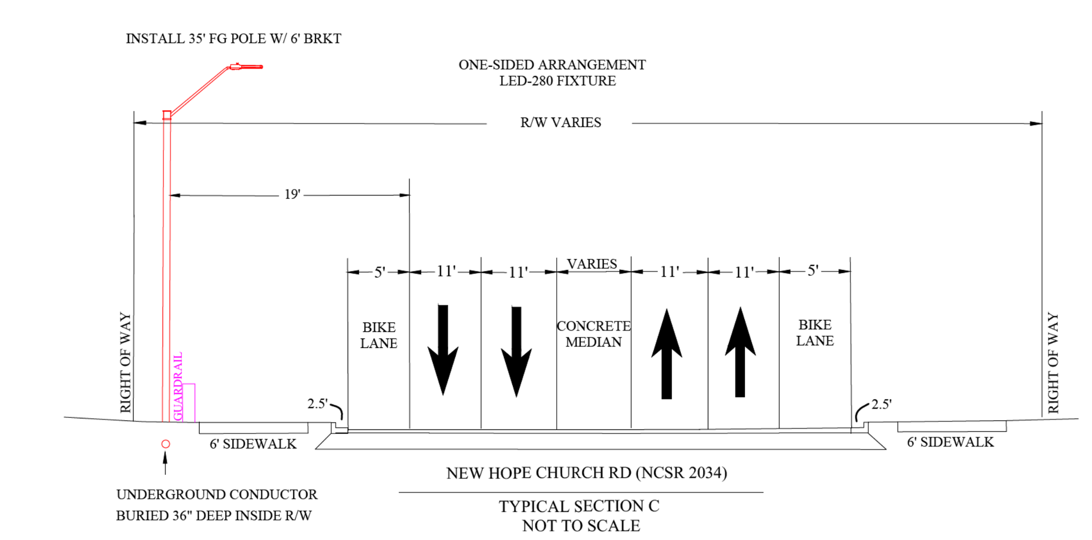
STREET LIGHTING LOCATION (FYI)

PROJECT REFERENCE NO.	SHEET NO.
P-5715	SL01
STREET LIGHTING	







NOTES

1. LIGHTING LEVELS ARE BASED ON TWO SIDED STAGGERED LIGHTING FOR THE ROADWAY IN ACCORDANCE WITH NCDOT STANDARDS.

2. ALL LUMINARIES WILL BE 150 LED ROADWAY TYPE III, 4000K, RECTANGLE PATTERN WITH PHOTOCELLS AND BALLAST, RATED: 12,920 LUMENS 240V OR 280 LED ROADWAY TYPE III, 4000K, RECTANGLE PATTERN WITH PHOTOCELLS AND BALLAST, RATED: 25,050 LUMENS 240V.

3. ALL LIGHTING WITH UNDERGROUND SERVICE WILL BE INSTALLED ON FIBERGLASS POLES LOCATED INSIDE OF ROAD RIGHT OF WAY.

4. MOUNTING HEIGHT FOR NEW LIGHTING FIXTURES: 35' WITH 6' BRACKET. EXISTING LIGHTING FIXTURES MOUNTED AT 30' WITH 16' BRACKET.

5. MINIMUM SETBACK OF NEW LIGHTING POLES IS 10' FROM EDGE OF TRAVEL. BIKE LANE IS NOT CONSIDERED A TRAVEL LANE. WHERE POLES ARE BEING INSTALLED BEHIND GUARDRAIL, MINIMUM SETBACK IS 3.5' BEHIND ROADSIDE FACE OF GUARDRAIL. SEE DRAWING FOR DETAILS.

6. ALL POWER SOURCES WILL BE FROM DUKE ENERGY-PROGRESS FACILITIES.

7. ALL CONSTRUCTION WILL COMPLY WITH NESC REQUIREMENTS AND DUKE ENERGY-PROGRESS SPECIFICATIONS. REFER TO THE DUKE ENERGY-PROGRESS DRAWINGS LISTED.

(NCSR 2034) NEW HOPE CHURCH RD

IES REQUIREMENTS MINOR ARTERIAL/ COMMERCIAL			ACTUAL
AVE. MAINT. FC :	1.4	MIN.	1.40
AVE. / MIN. RATIO :	4:1	MAX.	3.93:1
VEILING LUM. RATIO :	0.3:1	MAX.	0.18:1

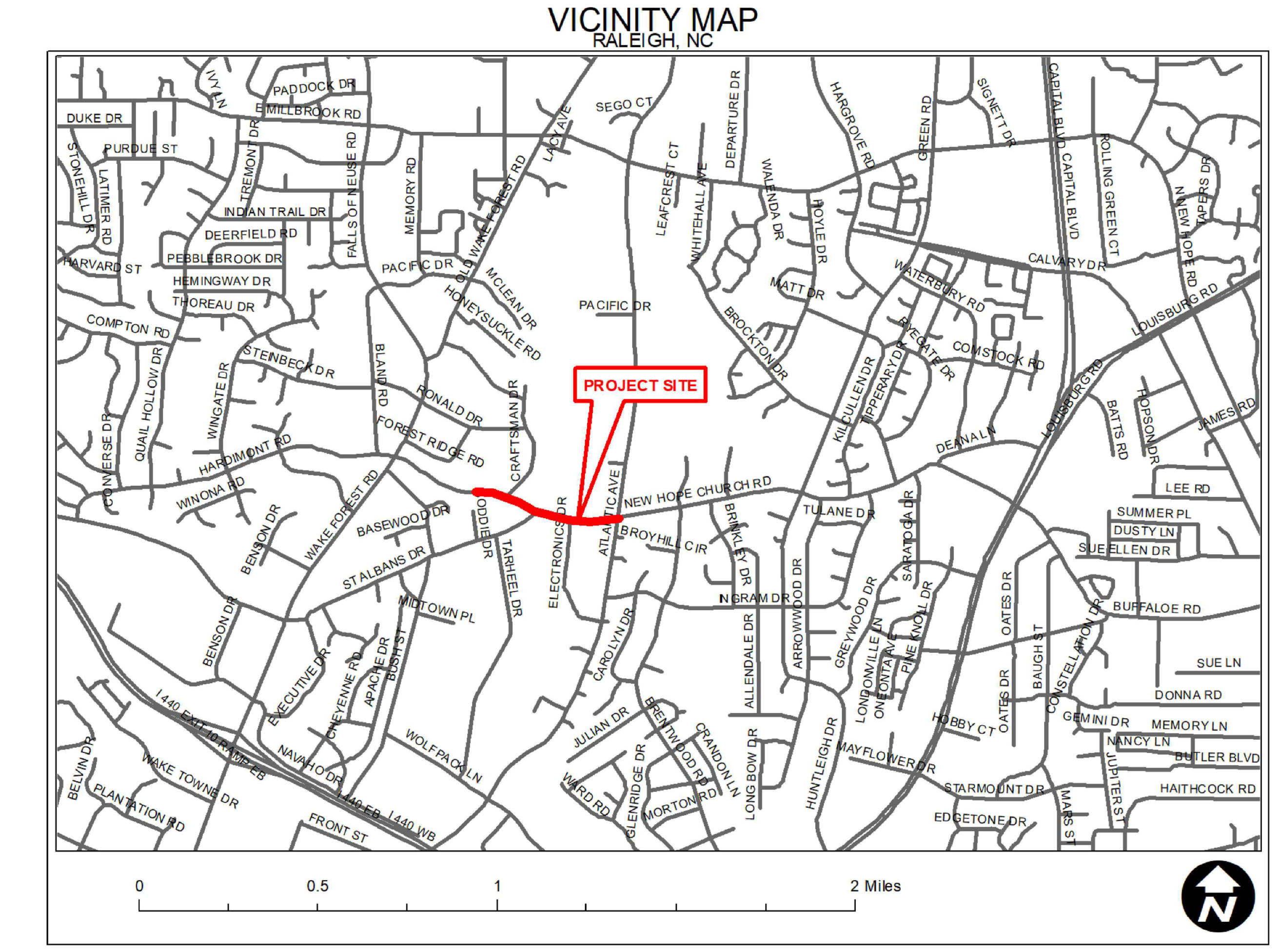
LIGHTING LEVELS CALCULATED USING ALADAN/LITEPRO
AVG DAILY TRAFFIC: 21,000
DESIGN SPEED LIMIT: 35 MPH
ACTUAL SPEED LIMIT: 35 MPH
AVG SPAN DISTANCE: 136 FEET

FOR CONSTRUCTION DETAILS, REFER IN PARTICULAR TO THE FOLLOWING PE SPECIFICATION DRAWINGS

DRAWING NUMBER	DRAWING TITLE
30.09-01	GRAY FIBERGLASS POLE LIGHTING INSTALLATIONS
30.02-20	LIGHTING BRACKETS FOR STEEL & FIBERGLASS POLES
22.01-104	TRENCH, BACKFILL AND COMPACTION REQUIRMENTS

PROPOSED	EXISTING	REMOVE	ABANDON	LEGEND
				LED LUMINARE
				DECORATIVE LUMINARE
				FIBERGLASS/STEEL LIGHTING POLE
				WOOD POLE
				FOREIGN POLE
				TRANSFORMER (POLE MOUNTED)
—U—	—U—	—U—	—U—	STREET LIGHT CIRCUIT UNDERGROUND
—S—	—S—	—S—	—S—	STREET LIGHT CIRCUIT OVERHEAD
—P—	—P—	—P—	—P—	OH PRIMARY CIRCUIT
				ROW/PROPERTY LINES
F	F	F	F	SECONDARY PEDESTAL
				TRANSFORMER (PAD MOUNTED)

VICINITY MAP
RALEIGH, NC



Safety Reminders / Adverse Conditions

SAFETYFirst
- PERSONAL ACCOUNTABILITY
- ACTIVE CARING
- HAZARD RECOGNITION

?:
?:
?:

WZS: REMEMBER "YOUR CIRCLE OF SAFETY"
WZS: SET PROPER WORK ZONE NEEDED
WZS: SET PROPER SIGNS, CONES, AND BARRICADES
WZS: REMEMBER WALK AROUNDS AND PRETRIP
WZS:

CIRCLE FOR SAFETY

REMEMBER: Work zone area conditions may have changed for this job! Everyone is responsible for verifying the above safety information is correct prior to any work being performed each day.

NO.	DATE	REVISION	BY

LIGHTING DESIGN TOLERANCE

The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

DUKE ENERGY PROGRESS

STREET LIGHTING ARRANGEMENT FOR
NEW HOPE CHURCH RD
RALEIGH, NC

Designed by DUKE ENERGY PROGRESS LIGHTING SOLUTIONS
Reviewed by JESSICA WEISS Scale 1" = 50'
Date 2/16/2024 Size Drawing size "D"
Description WO 43348592
Drawing No. 4304 Sht. 1 OF 2