

# PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

## NOTES

- 1 AT THESE LOCATIONS, PROVIDE ELECTRICAL DUCT IN ACCORDANCE WITH NEC EQUIRMENTS FOR AN APPROVED RACEWAY FOR ELECTRICAL CIRCUITS. SEE TABLE "C", SHEET E1A.
- 2 INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE OR AS DIRECTED BY THE ENGINEER.
- 3 LOCATE ALL JUNCTION BOXES OUTSIDE CLEAR ZONE AND IN AN AREA UNLIKELY TO BE USED BY TRAFFIC.
- 4 LOCATE PROPOSED CONTROL SYSTEM IN AN AREA ACCESSIBLE FOR MAINTENANCE VEHICLES AND OUTSIDE OF CLEAR ZONE AS DEFINED BY THE 2011 AASHTO ROADSIDE DESIGN GUIDE.
- 5 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.
- 6 TYPE PC18 JUNCTION BOXES ARE 457MM L X 305MM W X 457MM H (18" L X 12" W X 18" H).
- 7 NOTE REMOVED
- 8 TYPE PC36 JUNCTION BOXES ARE 914MM L X 610MM W X 457MM H (36" L X 24" W X 18" H).
- 9 INSTALL JUNCTION BOXES, CIRCUITRY AND HIGH MOUNT FOUNDATIONS 1.3M (4.25') FROM CENTERLINE OF MEDIAN DITCH.
- 10 AT THESE LOCATIONS, COORDINATE WITH PRIME CONTRACTOR TO INSTALL OF JUNCTION BOXES AND CONDUITS PRIOR TO PAVING.
- 11 STATION OFFSETS FOR LIGHTING ITEMS ARE SHOWN IN METERS (M) TO ALIGN WITH THE ROADWAY BASE PLANS. TO CONVERT TO ENGLISH MEASUREMENT, MULITPLY OFFSET SHOWN BY 3.281'.

## SCOPE OF WORK

PLACE ROADWAY LIGHTING SYSTEM INTO SERVICE BY PROVIDING AND INSTALLING HIGH MOUNT STANDARDS & LUMINAIRES, SINGLE ARM STANDARDS & LUMINAIRES AND UNDEPASS LUMINAIRES WITH ALL WITH HIGH PRESSURE SODIUM LAMPS, UNDERGROUND CIRCUITRY, CONTROL SYSTEMS AND JUNCTION BOXES.

## DESIGN CRITERIA

- 2005 AASHTO ROADWAY LIGHTING DESIGN GUIDE
- 2009 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 5TH EDITION AND LATEST INTERIM SPECIFICATIONS VALID AT THE TIME OF LETTING
- FATIGUE CATEGORY II SHALL BE USED IN DESIGN
- DESIGN HIGH MOUNT SUPPORT FOR BASIC WIND SPEED OF 49 M/S (110 MPH)
- DESIGN HIGH MOUNT STANDARD FOUNDATION FOR BASIC WIND SPEED OF 58 M/S (130 MPH). ANY CONTRACTOR-DESIGNED SITE SPECIFIC FOUNDATION DESIGN SHALL BE DESIGNED FOR THE SAME WIND SPEED
- 2011 NATIONAL ELECTRICAL CODE
- 2011 AASHTO ROADSIDE DESIGN GUIDE

## ROADWAY STANDARDS

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 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NO.	TITLE
1401.01	HIGH MOUNT STANDARD
1402.01	HIGH MOUNT FOUNDATION
1403.01	HIGH MOUNT LUMINAIRES
1404.01	LIGHT STANDARDS
1405.01	STANDARD FOUNDATION
1406.01	LIGHT STANDARD LUMINAIRES
1407.01	ELECTRIC SERVICE POLE AND LATERAL
1408.01	LIGHT CONTROL SYSTEM
1409.01	ELECTRICAL DUCT
1410.01	FEEDER CIRCUITS
1411.01	ELECTRICAL JUNCTION BOXES
1412.01	UNDERPASS LIGHTING

ALL WORK SHALL BE IN CONFORMANCE WITH DIVISION 14 OF THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, DATED JANUARY 2012.

## LEGEND

- PROPOSED 24.5M (80') HIGH MAST STANDARD W/ HM FOUNDATION & (8) HM LUMINAIRES 400W HPS, MEDIUM, CUTOFF, TYPE V
- PROPOSED 30.5M (100') HIGH MAST STANDARD W/ HM FOUNDATION & (6) HM LUMINAIRES 750W HPS, MEDIUM, CUTOFF, TYPE V
- PROPOSED 36.5M (120') HIGH MAST STANDARD W/ HM FOUNDATION & (8) HM LUMINAIRES 750W HPS, MEDIUM, CUTOFF, TYPE V
- PROPOSED LIGHT STANDARD TYPE MTLT 13.7M (45') WITH 4.6M (15') SINGLE ARM. INCLUDES STANDARD FOUNDATION TYPE R1 OR R2 & 250W HPS FLAT GLASS ROADWAY LUMINAIRE. IES DISTRIBUTION: MEDIUM, CUTOFF, TYPE III
- PROPOSED CONTROL SYSTEM WITH PC36 JUNCTION BOX. BREAKER SIZE SHOWN IN LOAD SCHEDULES, SHEETS E2, E4, E7, E9 & E11
- PROPOSED UNDERPASS LUMINAIRE, TYPE PM, 100W HPS, LOW BAY WITH SAFTEY CHAIN
- PROPOSED UNDERPASS BREAKER PANEL
- PROPOSED ELECTRICAL JUNCTION BOX SEE DETAILS & TABLE B, SHEET E1A
- REFERENCE TO CORRESPONDING NOTE AS NUMBERED
- PROPOSED FEEDER CIRCUIT CONTROL SYSTEM(A), CIRCUIT(1) PLAN SYMBOL (6) SEE TABLE A, THIS SHEET
- PROPOSED SERVICE POLE AND LATERAL 9.1M (30') CLASS 4 3#1/0 USE CONDUCTORS TS2 CONDUIT
- PROPOSED ELECTRICAL DUCT SIZE TYPE JACKED (JA) OR BURIED (BD) SIZE & LOCATION: SEE TABLE C, SHEET E1A

PLAN SYMBOL	DESCRIPTION	CONTRACT ITEM	
8	2 #8 Ø 1 #10G TS1.5 P	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR TS1.5 PVC CONDUIT	2 - 8 W/G FEEDER CIRCUIT IN TS1.5 CONDUIT
*8	2 #8 Ø 1 #10G	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR	2 - 8 W/G FEEDER CIRCUIT
6	2 #6 Ø 1 #8G TS1.5 P	2 AWG SIZE 6 CONDUCTOR (BK & RD) 1 AWG SIZE 8 GROUNDING CONDUCTOR TS1.5 PVC CONDUIT	2 - 6 W/G FEEDER CIRCUIT IN TS1.5 CONDUIT
*6	2 #6 Ø 1 #10G	2 AWG SIZE 6 CONDUCTOR (BK & RD) 1 AWG SIZE 8 GROUNDING CONDUCTOR	2 - 6 W/G FEEDER CIRCUIT
4	2 #4 Ø 1 #6G TS1.5 P	2 AWG SIZE 4 CONDUCTOR (BK & RD) 1 AWG SIZE 6 GROUNDING CONDUCTOR TS1.5 PVC CONDUIT	2 - 4 W/G FEEDER CIRCUIT IN TS1.5 CONDUIT
*4	2 #4 Ø 1 #6G	2 AWG SIZE 4 CONDUCTOR (BK & RD) 1 AWG SIZE 6 GROUNDING CONDUCTOR	2 - 4 W/G FEEDER CIRCUIT
2	2 #2 Ø 1 #4G TS1.5 P	2 AWG SIZE 2 CONDUCTOR (BK & RD) 1 AWG SIZE 4 GROUNDING CONDUCTOR TS1.5 PVC CONDUIT	2 - 2 W/G FEEDER CIRCUIT IN TS1.5 CONDUIT
*2	2 #2 Ø 1 #4G	2 AWG SIZE 2 CONDUCTOR (BK & RD) 1 AWG SIZE 4 GROUNDING CONDUCTOR	2 - 2 W/G FEEDER CIRCUIT
1	2 #1 Ø 1 #2G TS2 P	2 AWG SIZE 1 CONDUCTOR (BK & RD) 1 AWG SIZE 2 GROUNDING CONDUCTOR TS2 PVC CONDUIT	2 - 1 W/G FEEDER CIRCUIT IN TS2 CONDUIT
*1	2 #1 Ø 1 #2G	2 AWG SIZE 1 CONDUCTOR (BK & RD) 1 AWG SIZE 2 GROUNDING CONDUCTOR	2 - 1 W/G FEEDER CIRCUIT

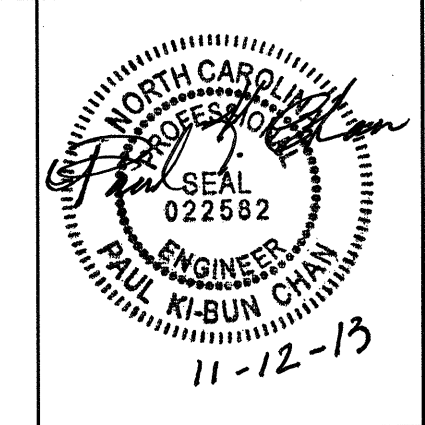
TRADE SIZE	METRIC	ENGLISH
1/2	16mm	1/2"
3/4	21mm	3/4"
1	27mm	1"
1.5	41mm	1 1/2"
2	53mm	2"
3	78mm	3"
4	103mm	4"
6	155mm	6"

BD	BURIED	PVC	PVC SCHEDULE 40 CONDUIT
LT	LIGHT	RGC	RIGID GALVANIZED STEEL CONDUIT
JA	JACKED	C	CONDUIT
MH	MOUNTING HEIGHT	CKT	CIRCUIT
Ø	PHASE	N	NEUTRAL
SER LAT	SERVICE LATERAL	G	GROUND
		HM	HIGH MAST

COMPUTED BY: RGH      DATE: 11/6/13  
 CHECKED BY: PKC      DATE: 11-12-13

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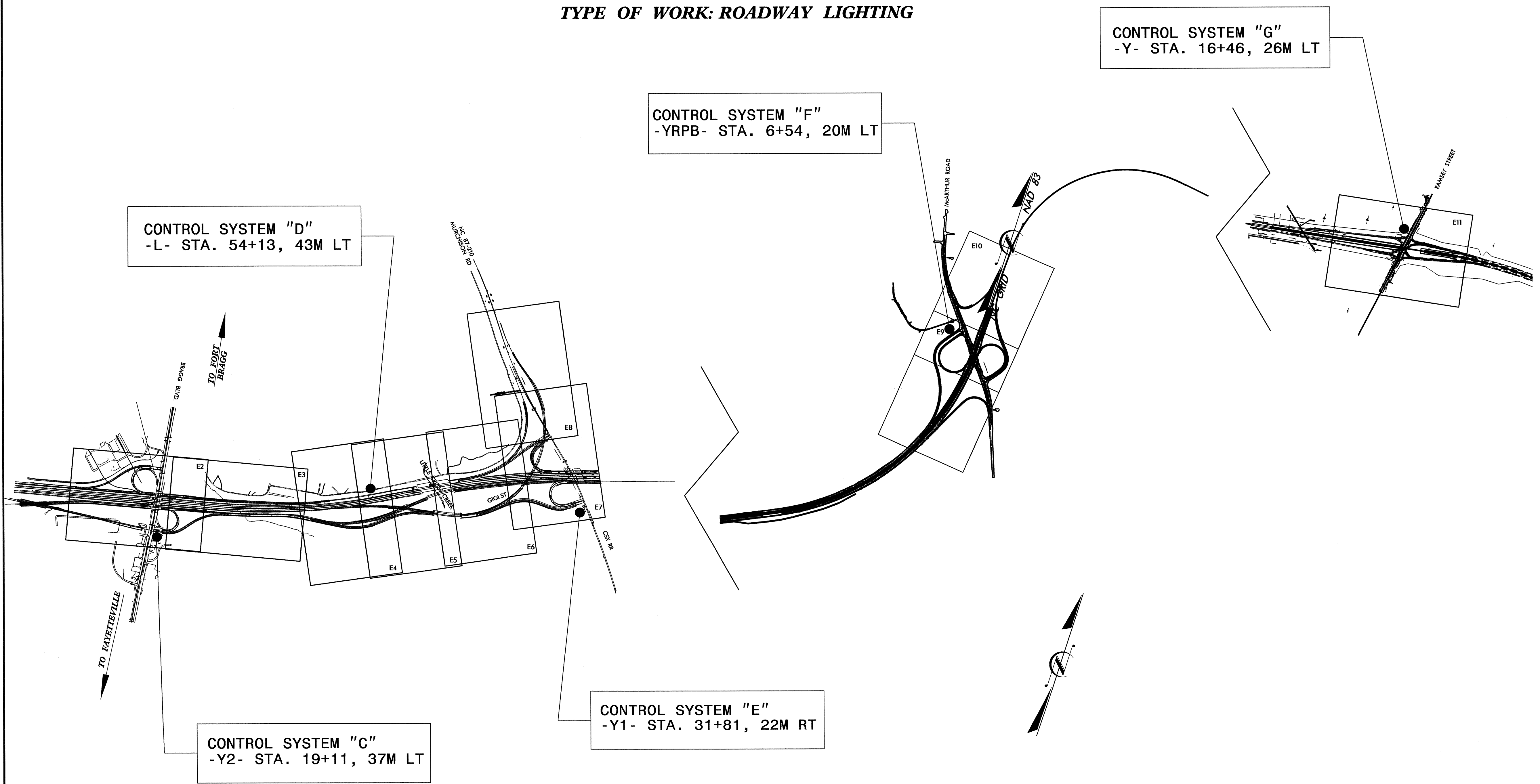


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**CUMBERLAND COUNTY**

LOCATION: FAYETTEVILLE OUTER LOOP FROM  
WEST OF NC 24 (BRAGG BLVD.) TO NC 87 / NC 210 (MURCHISON RD.)

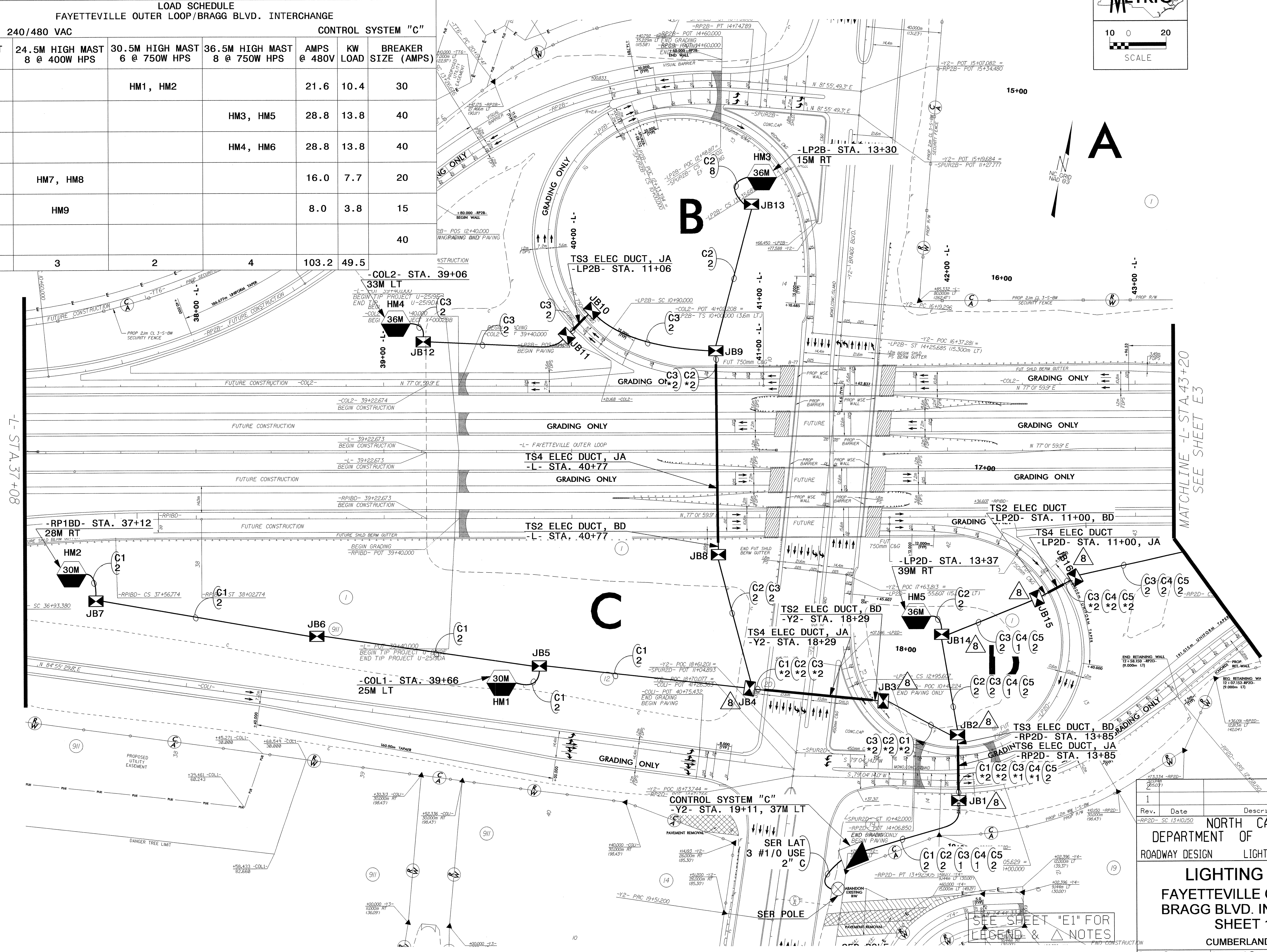
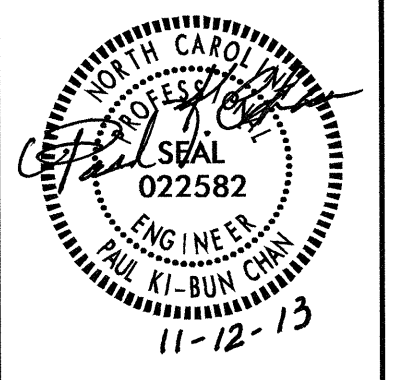
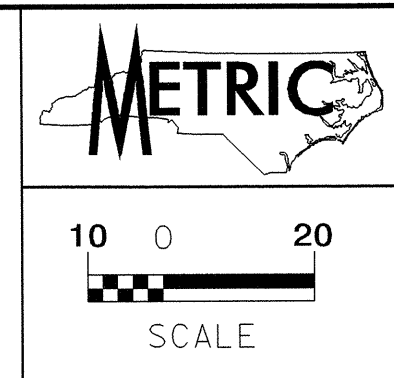
TYPE OF WORK: ROADWAY LIGHTING

LIGHTING LAYOUT OVERVIEW TIP PROJECT: X-0002CC



02-10-2-13

LOAD SCHEDULE						
FAYETTEVILLE OUTER LOOP/BRAGG BLVD. INTERCHANGE						
10, 3W, 240/480 VAC			CONTROL SYSTEM "C"			
CIRCUIT ID	24.5M HIGH MAST 8 @ 400W HPS	30.5M HIGH MAST 6 @ 750W HPS	36.5M HIGH MAST 8 @ 750W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
C1		HM1, HM2		21.6	10.4	30
C2			HM3, HM5	28.8	13.8	40
C3			HM4, HM6	28.8	13.8	40
C4	HM7, HM8			16.0	7.7	20
C5	HM9			8.0	3.8	15
SPARE						40
TOTAL	3	2	4	103.2	49.5	



MATCHLINE - L-STA. 43+20  
SEE SHEET E3

Rev.	Date	Description	Approved
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NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION

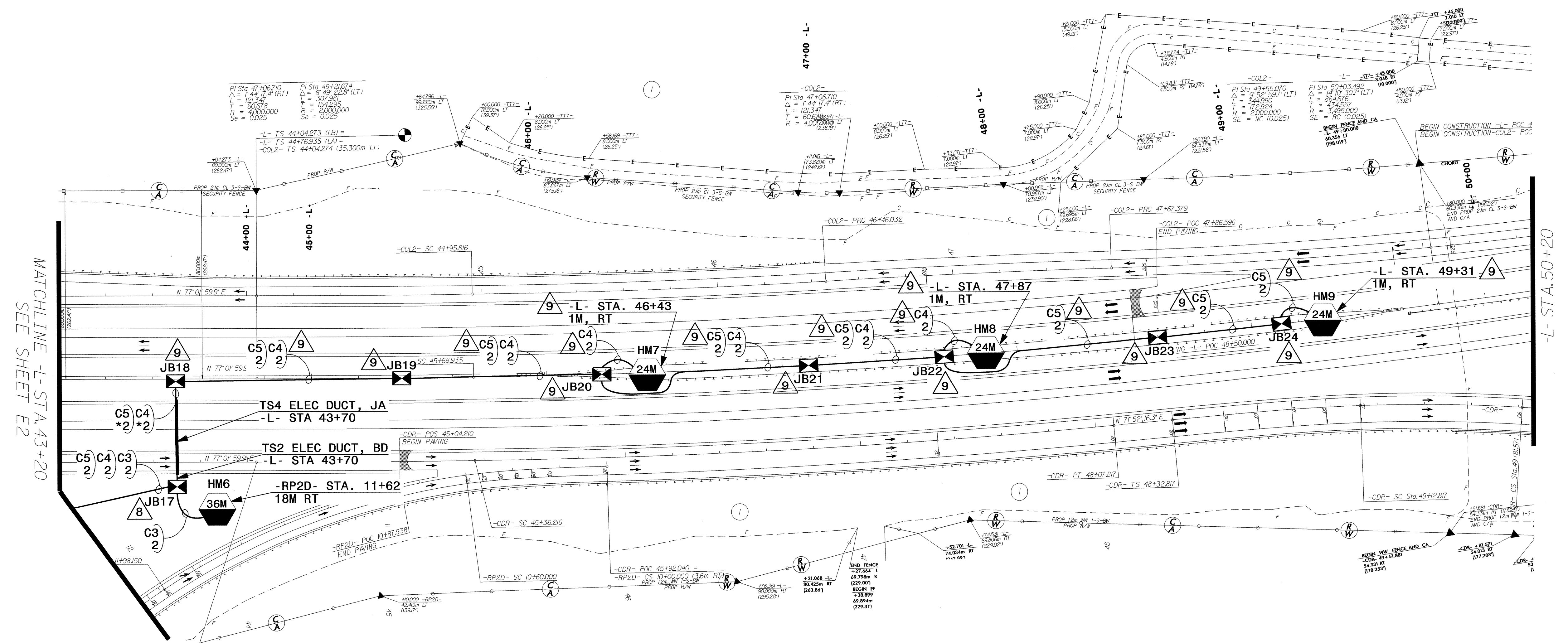
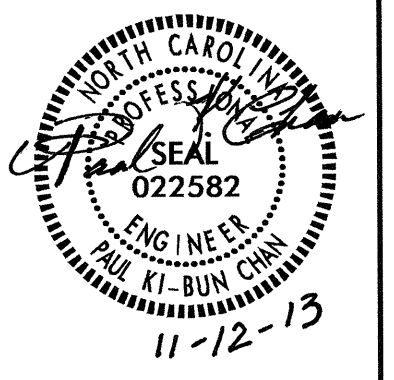
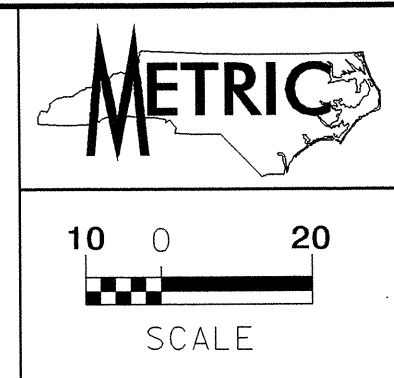
**LIGHTING LAYOUT**  
FAYETTEVILLE OUTER LOOP/  
BRAGG BLVD. INTERCHANGE  
SHEET 1 OF 2

CUMBERLAND COUNTY

Drawn By: RGH Approved By: PKC Dwg No.:

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02/03/19



MATCHLINE -L- STA. 43+20  
SEE SHEET E2

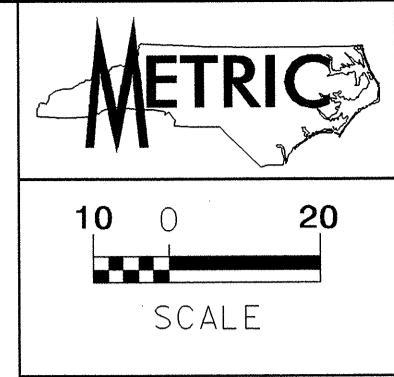
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SEE SHEET "E1" FOR  
LEGEND & △ NOTES

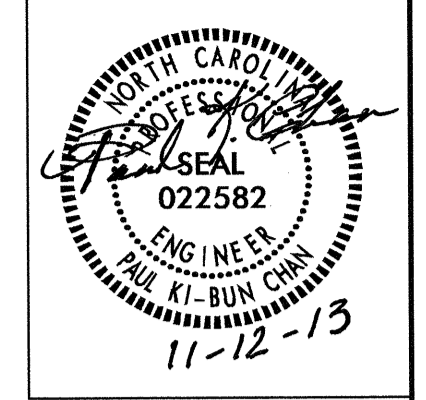
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Drawn By:	RGH	Approved By:	PKC
Dwg No.:			

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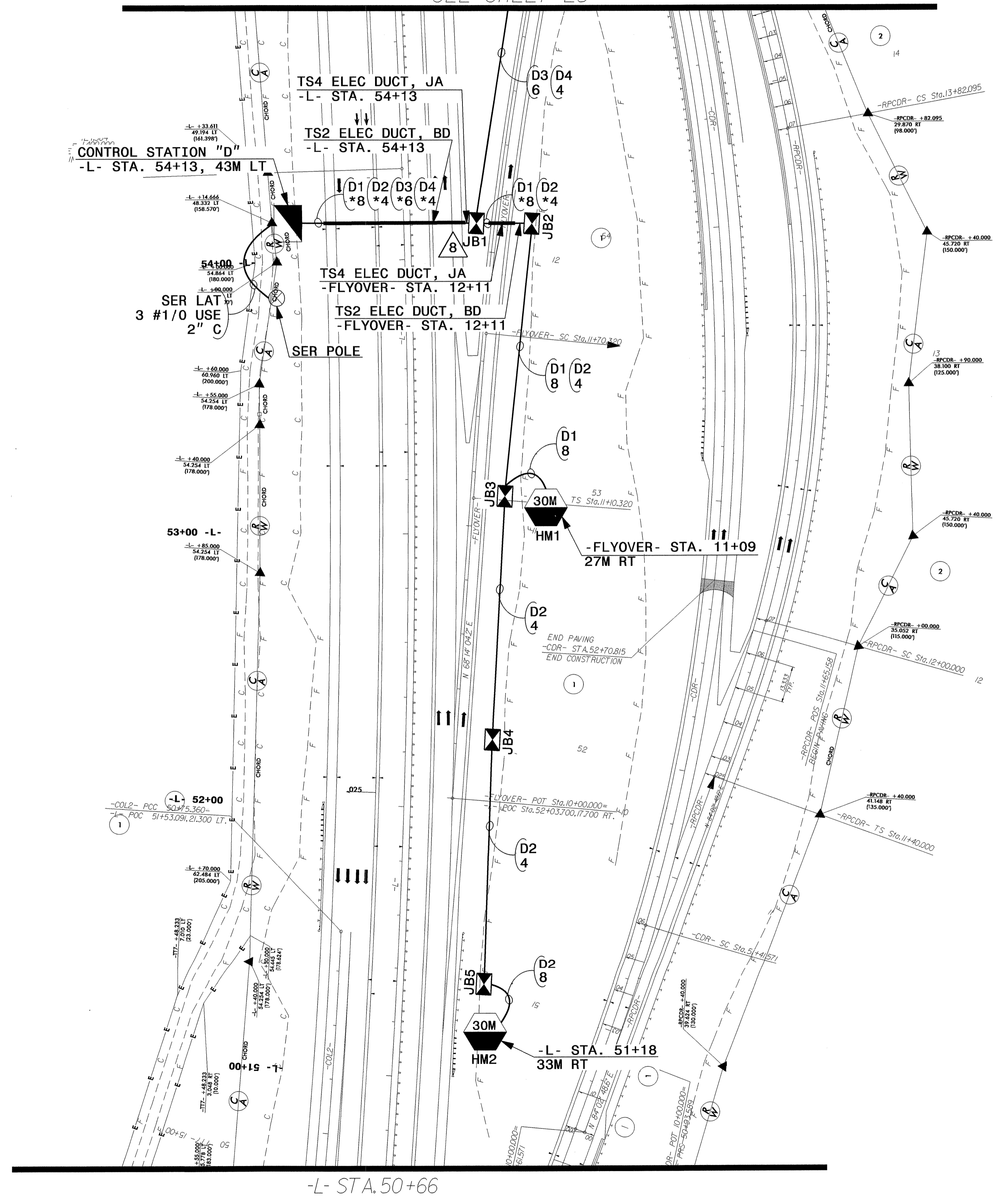
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PROJECT REFERENCE NO. X-0002CC  
SHEET NO. E4



MATCHLINE -L- STA. 54+91  
SEE SHEET E5



LOAD SCHEDULE  
FAYETTEVILLE OUTER LOOP BETWEEN BRAGG BLVD AND MURCHISON RD.  
10, 3W, 240/480 VAC CONTROL SYSTEM "D"

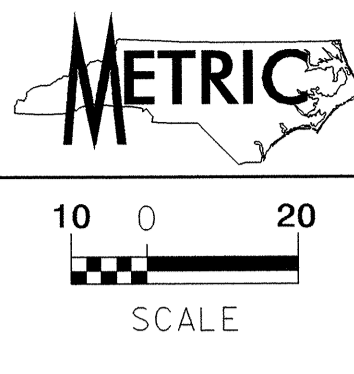
CIRCUIT ID	30.5M HIGH MAST 6 @ 750W HPS	36.5M HIGH MAST 8 @ 750W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
D1	HM1		10.8	5.2	15
D2	HM2		10.8	5.2	15
D3		HM3	14.4	6.9	20
D4		HM4	14.4	6.9	20
SPARE					20
TOTAL	2	2	50.4	24.2	

SEE SHEET "E1" FOR  
LEGEND & △ NOTES

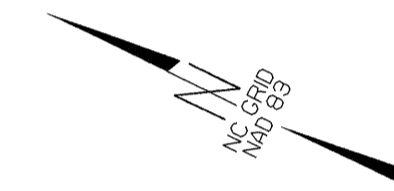
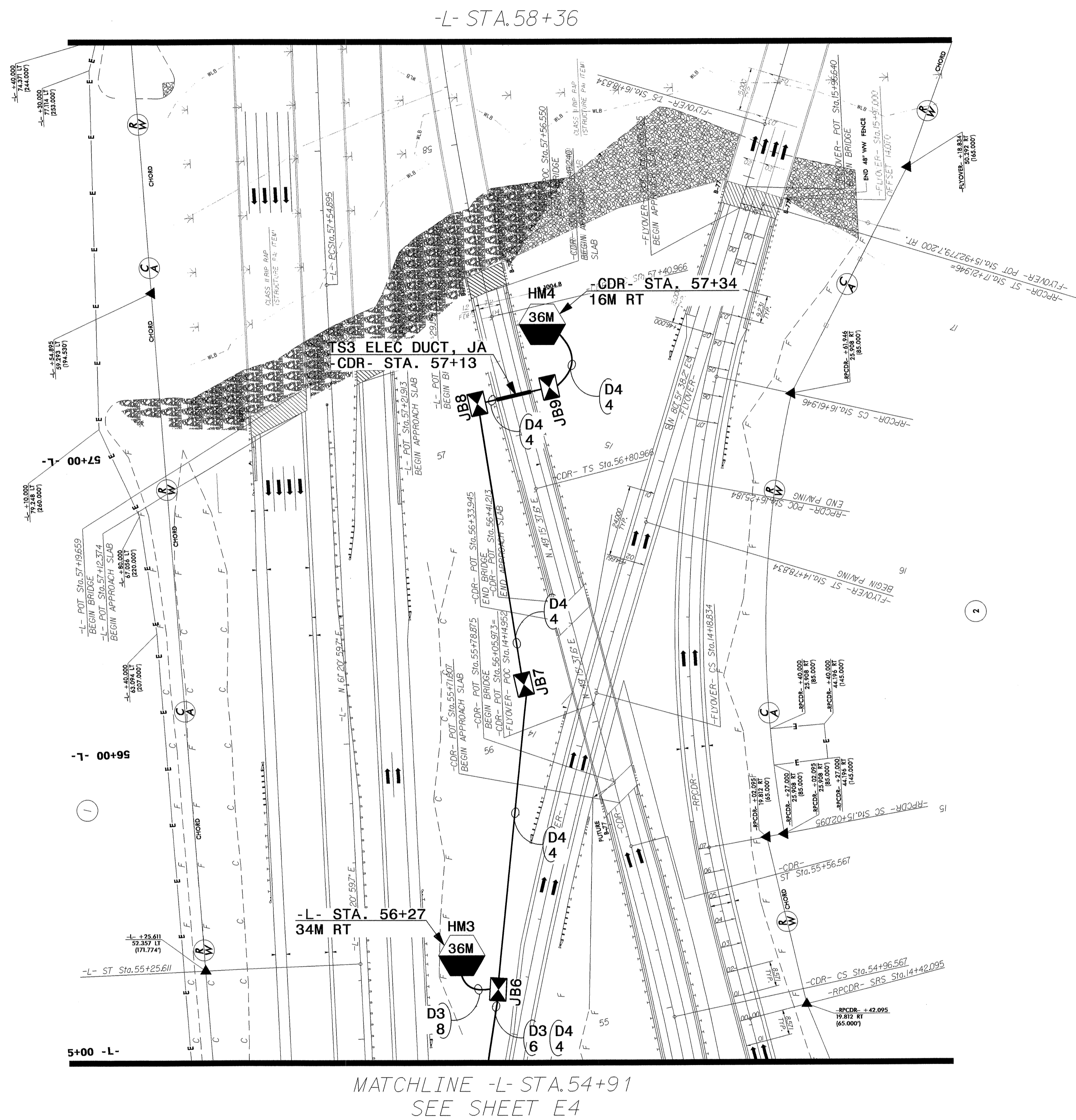
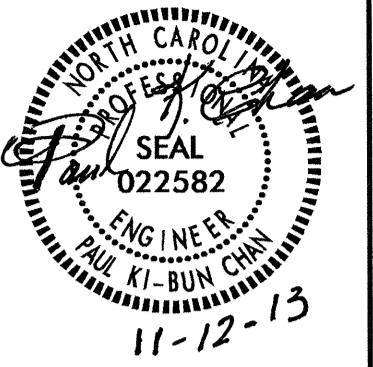
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Drawn By:	RGH	Approved By:	PKC
Dwg No.:			

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PROJECT REFERENCE NO. X-0002CC SHEET NO. E5



SEE SHEET "E1" FOR LEGEND & △ NOTES

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Rev.	Date	Description	Approved
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Drawn By:	RGH	Approved By:	PKC
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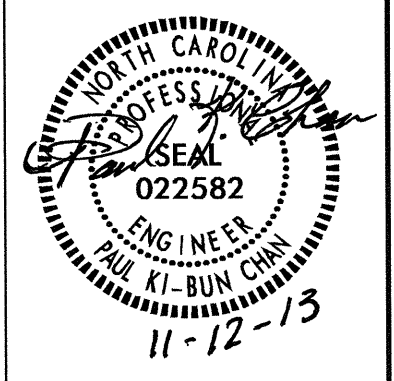
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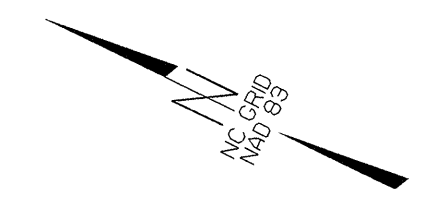
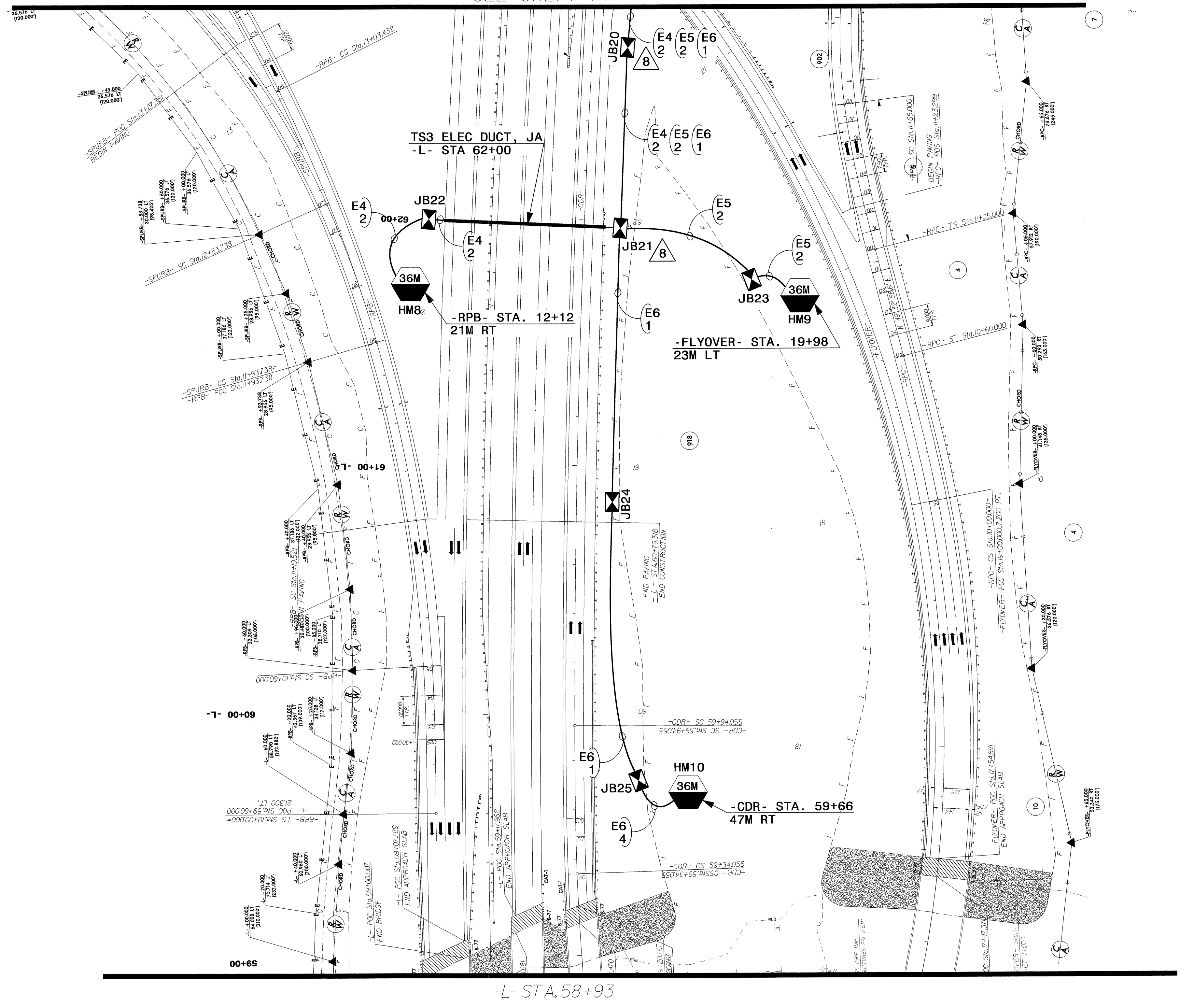
**METRIC**

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PROJECT REFERENCE NO. X-0002CC  
SHEET NO. E6



MATCHLINE -L- STA. 62+87  
SEE SHEET E7



SEE SHEET "E1" FOR  
LEGEND & △ NOTES

Rev.	Date	Description	Approved
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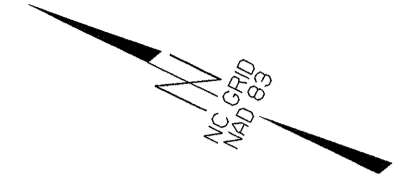
**NORTH CAROLINA**  
**DEPARTMENT OF TRANSPORTATION**  
 ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION  
**LIGHTING LAYOUT**  
**FAYETTEVILLE OUTER LOOP/  
 MURCHISON ROAD INTERCHANGE**  
**SHEET 1 OF 3**  
**CUMBERLAND COUNTY**

Drawn By: **RGH**    Approved By: **PKC**    Dwg No.:

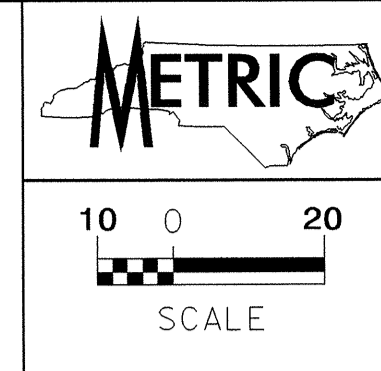
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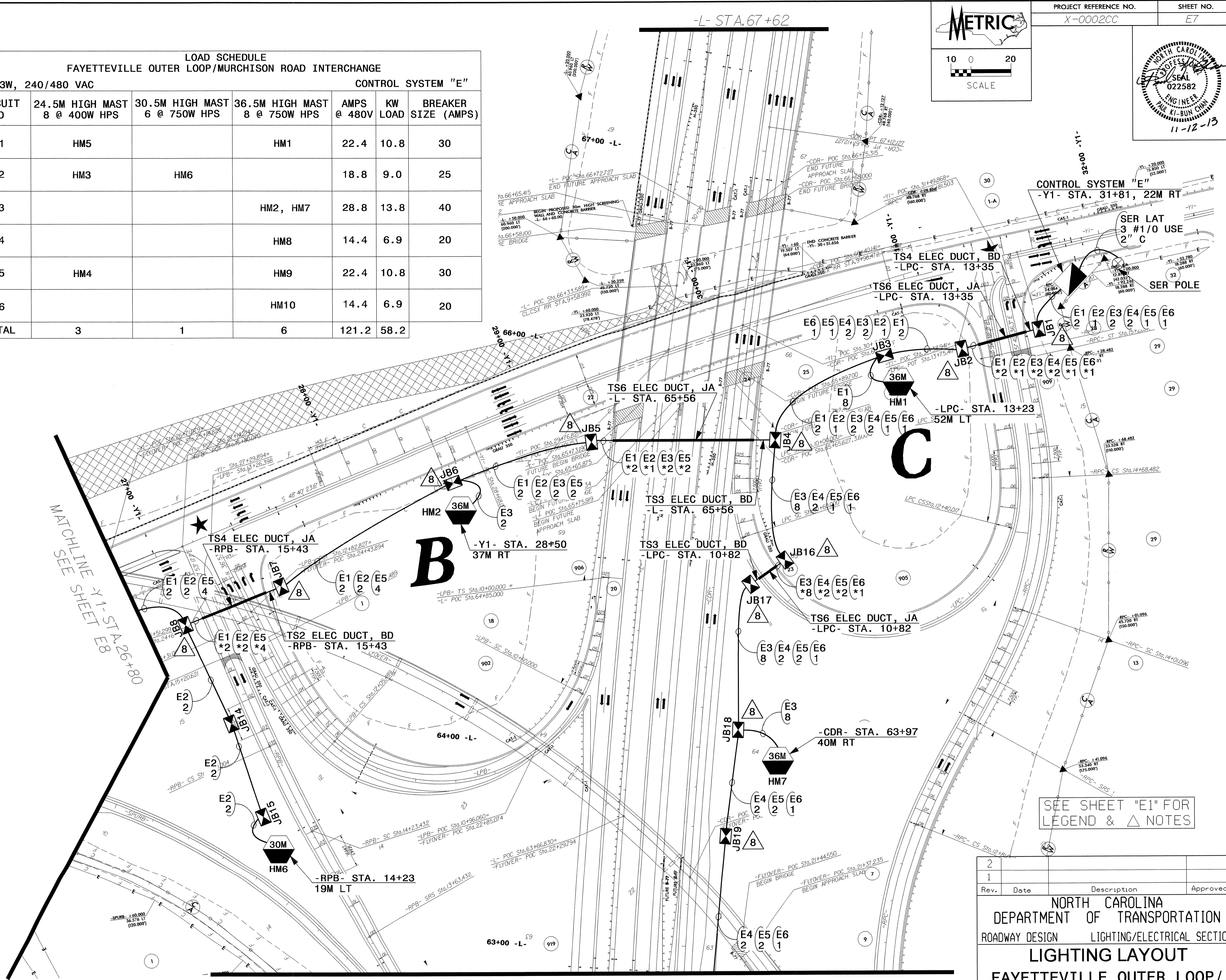
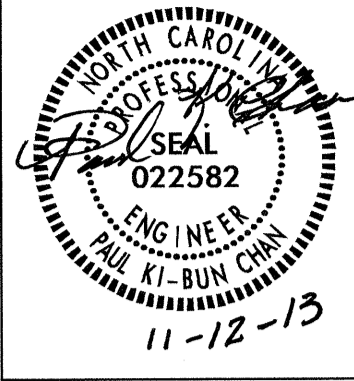
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LOAD SCHEDULE						
FAYETTEVILLE OUTER LOOP/MURCHISON ROAD INTERCHANGE						
10, 3W, 240/480 VAC			CONTROL SYSTEM "E"			
CIRCUIT ID	24.5M HIGH MAST 8 @ 400W HPS	30.5M HIGH MAST 6 @ 750W HPS	36.5M HIGH MAST 8 @ 750W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
E1	HM5		HM1	22.4	10.8	30
E2	HM3	HM6		18.8	9.0	25
E3			HM2, HM7	28.8	13.8	40
E4			HM8	14.4	6.9	20
E5	HM4		HM9	22.4	10.8	30
E6			HM10	14.4	6.9	20
TOTAL	3	1	6	121.2	58.2	



PROJECT REFERENCE NO. X-0002CC SHEET NO. E7



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SEE SHEET "E8"

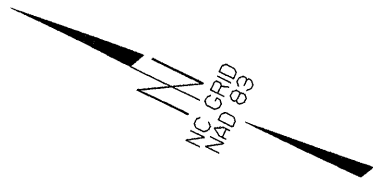
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SEE SHEET E6

SEE SHEET "E1" FOR  
LEGEND & Δ NOTES

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> <b>FAYETTEVILLE OUTER LOOP/          MURCHISON ROAD INTERCHANGE</b> <b>SHEET 2 OF 3</b> CUMBERLAND COUNTY			
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Dwg No.:			

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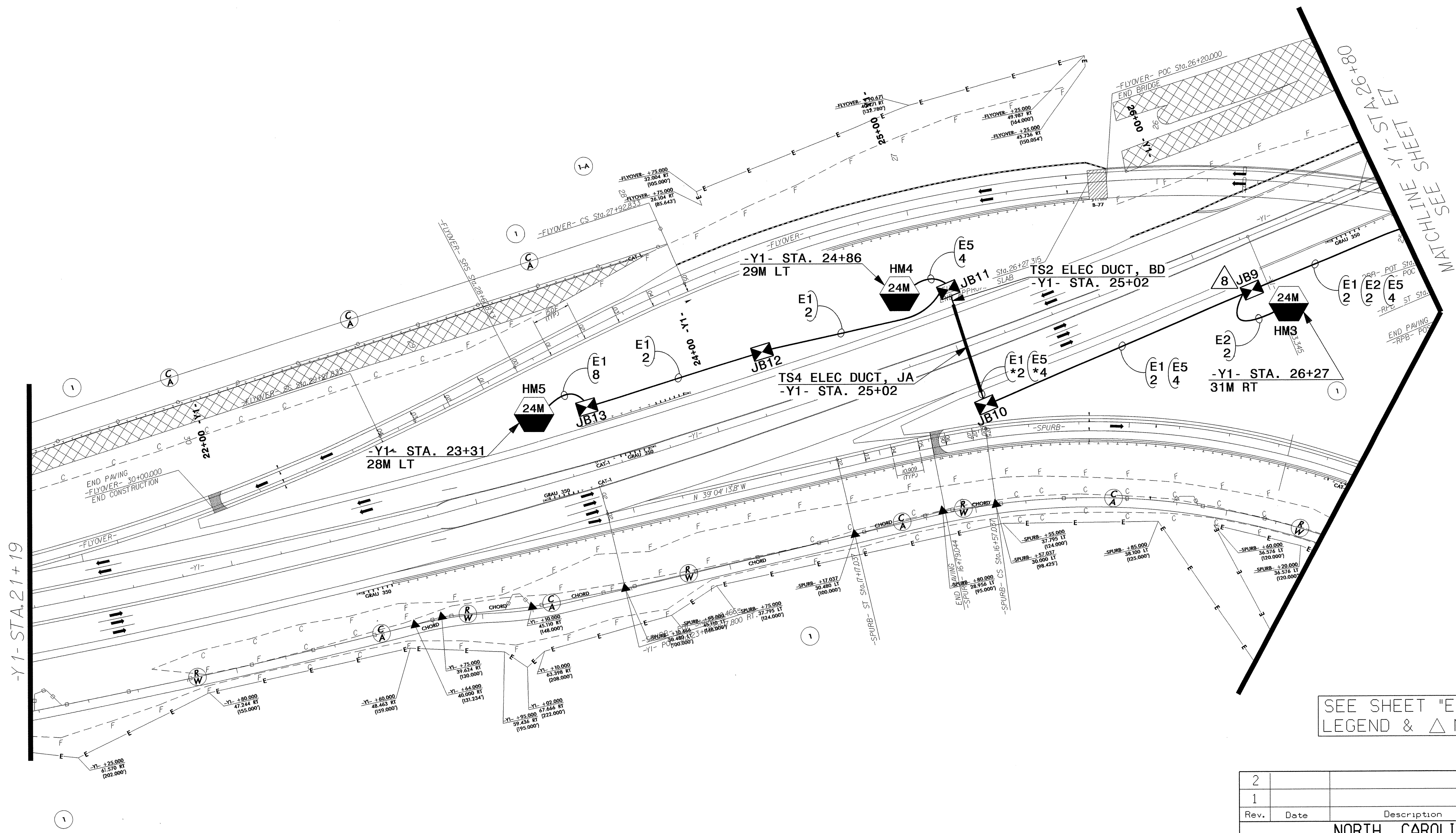
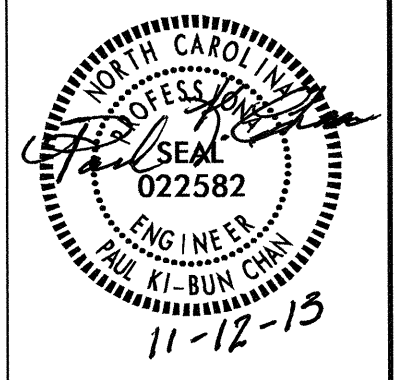
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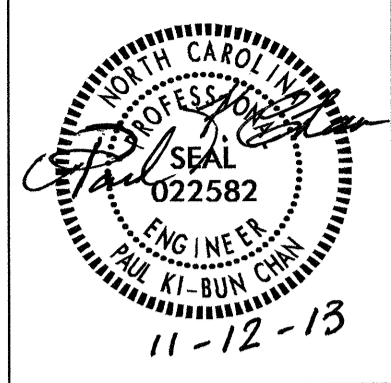
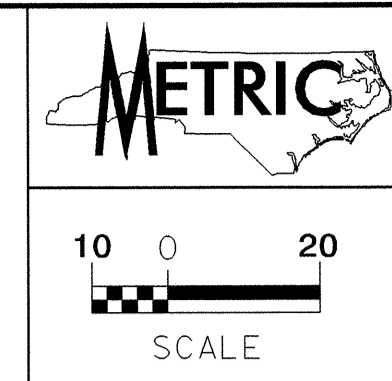
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SEE SHEET "E1" FOR  
LEGEND & Δ NOTES

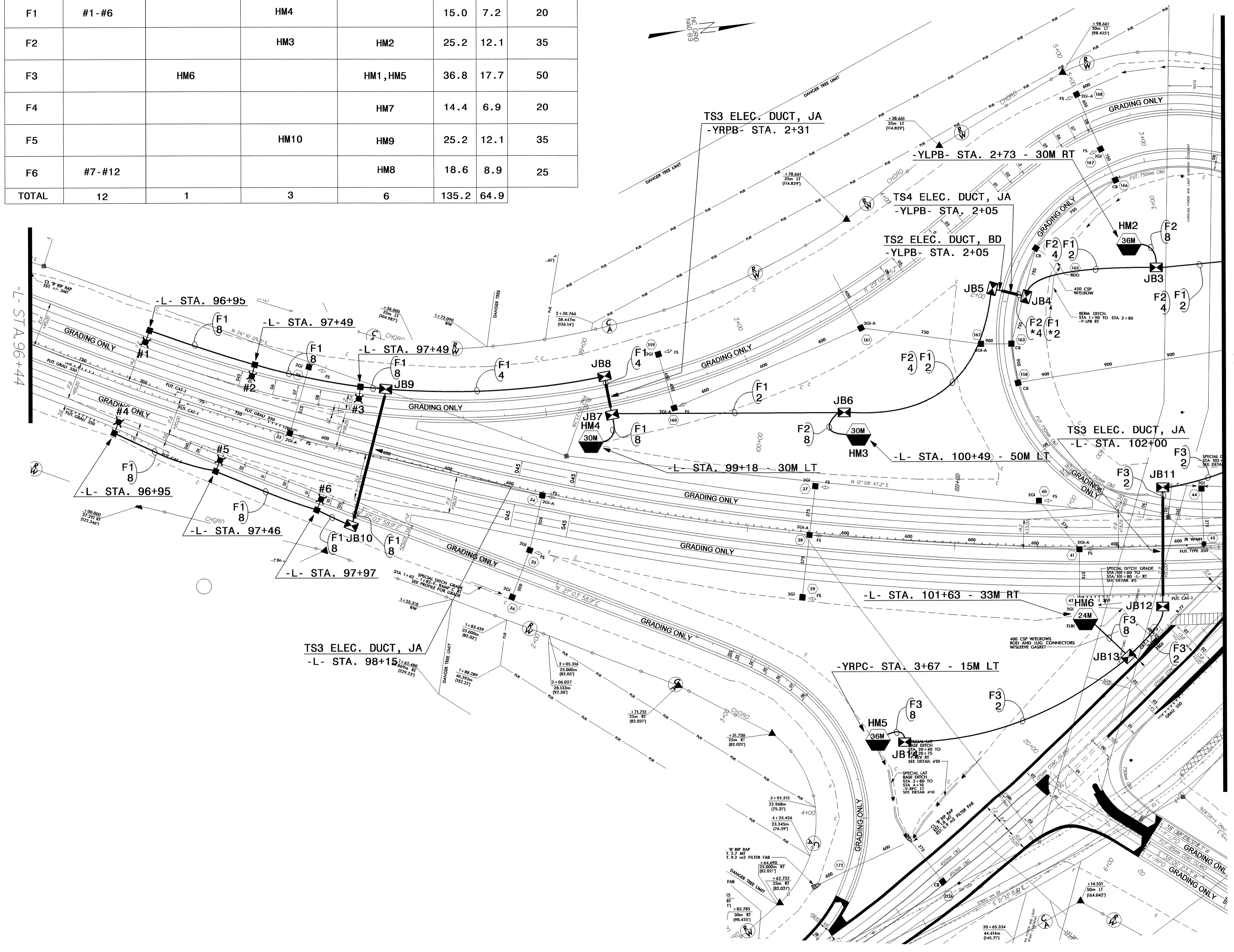
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Dwg No.:			

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USE FOR LIGHTING CONSTRUCTION ONLY

LOAD SCHEDULE				CONTROL SYSTEM "F"			
FAYETTEVILLE OUTER LOOP/McARTHUR RD. INTERCHANGE, SW QUAD							
CIRCUIT ID	SINGLE ARM 1 @ 250W HPS	24.5M HIGH MAST 8 @ 400W HPS	30.5M HIGH MAST 6 @ 750W HPS	36.5M HIGH MAST 8 @ 750W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
F1	#1-#6		HM4		15.0	7.2	20
F2			HM3	HM2	25.2	12.1	35
F3		HM6		HM1, HM5	36.8	17.7	50
F4				HM7	14.4	6.9	20
F5			HM10	HM9	25.2	12.1	35
F6	#7-#12			HM8	18.6	8.9	25
TOTAL	12	1	3	6	135.2	64.9	



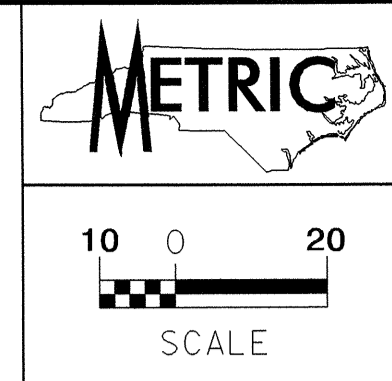
MATCHLINE - L-STA. 102+29 SEE SHEET E10

2			
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DESIGN SERVICES LIGHTING/ELECTRICAL SECTION			
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Dwg No.:			

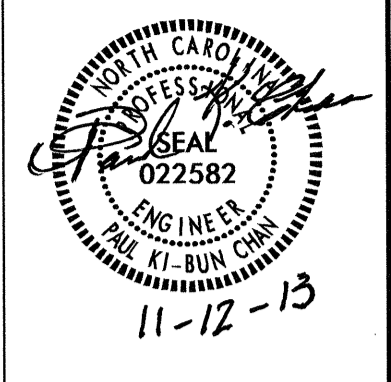
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02/03/98

# USE FOR LIGHTING CONSTRUCTION ONLY

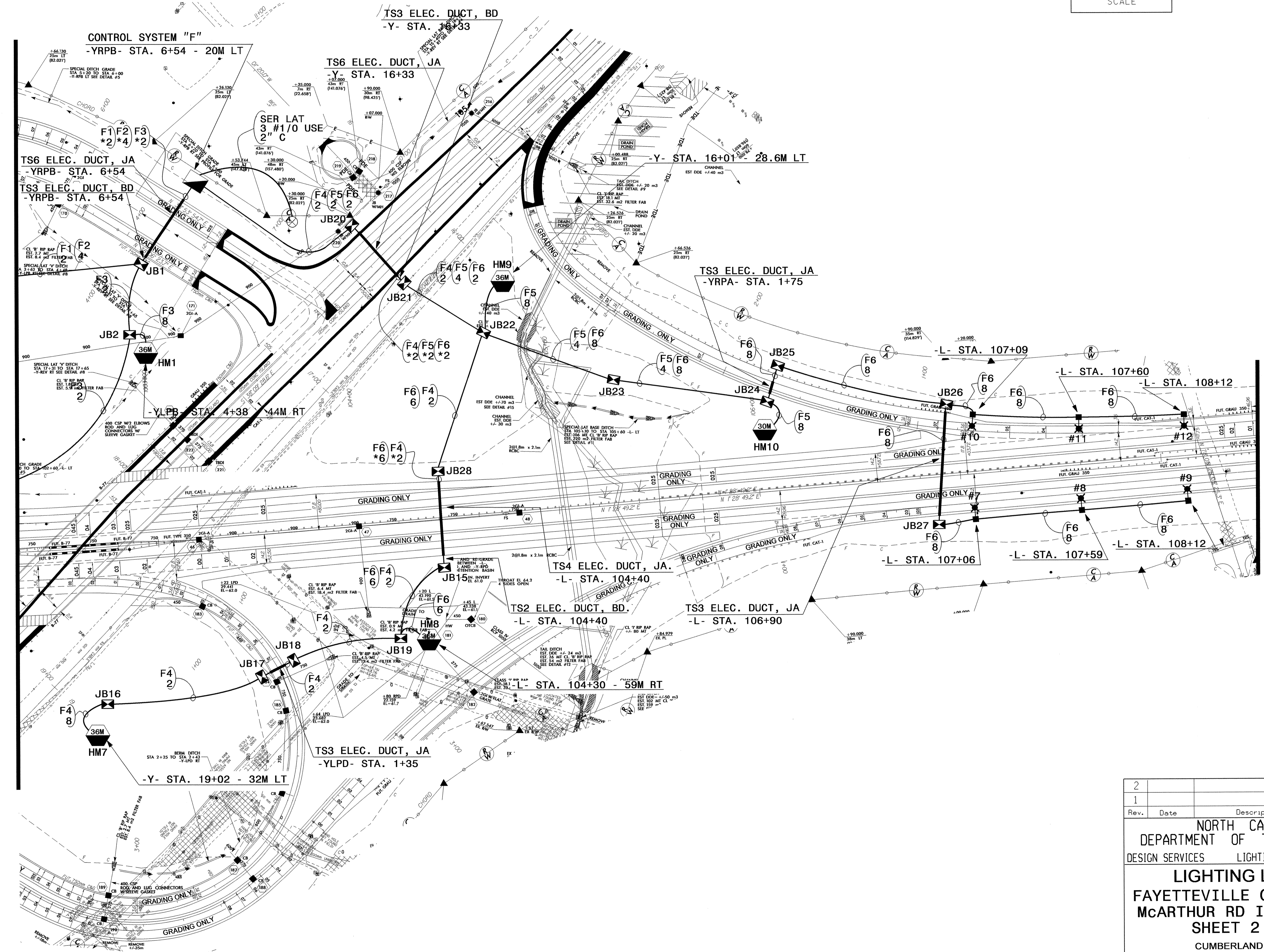


PROJECT REFERENCE NO. X-0002CC SHEET NO. E10



MATCHLINE -L- STA. 102+29  
SEE SHEET E10

-L- STA. 108+48

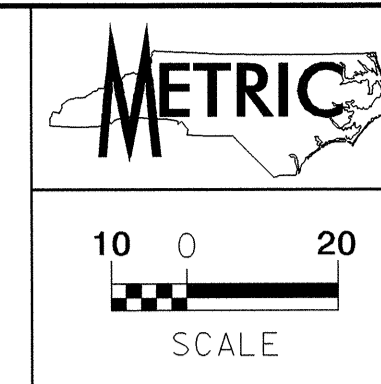


2			
1			
Rev.	Date	Description	Approved
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DESIGN SERVICES LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> <b>FAYETTEVILLE OUTER LOOP/          McARTHUR RD INTERCHANGE</b> <b>SHEET 2 OF 2</b> CUMBERLAND COUNTY			
Drawn By:	RGH	Approved By:	PKC
Dwg No.:			

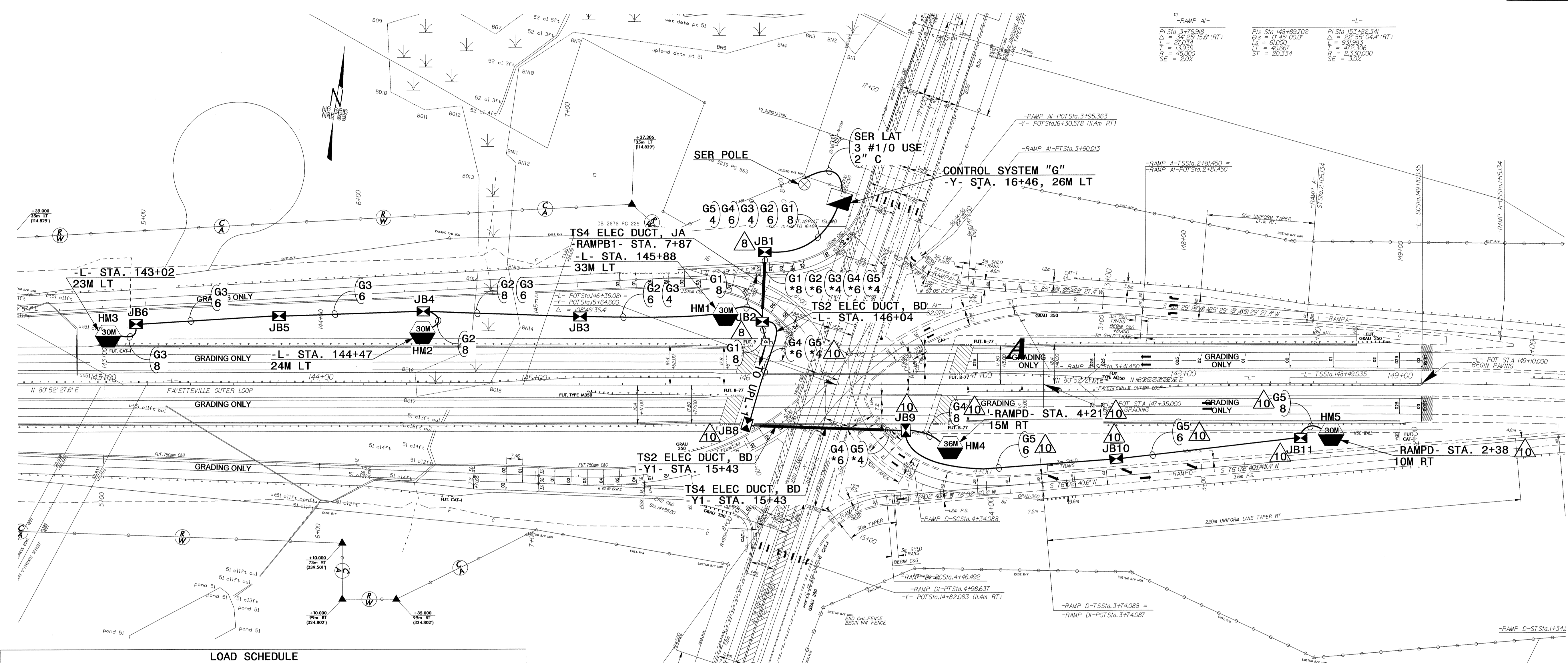
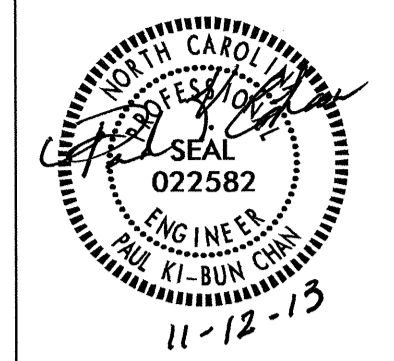
07-NOV-2013 14:52 LightingElectrical.dwg Fghs11 HT RUC08197 Design: X-0002cc.le\_psh\_e10.dgn

02/03/98

# USE FOR LIGHTING CONSTRUCTION ONLY



PROJECT REFERENCE NO. X-0002CC SHEET NO. E11



**LOAD SCHEDULE**  
FAYETTEVILLE OUTER LOOP/RAMSEY STREET INTERCHANGE

CIRCUIT ID	LOAD SCHEDULE		CONTROL SYSTEM "G"			
	UNDERPASS 1 @ 100W HPS	30.5M HIGH MAST 6 @ 750W HPS	36.5M HIGH MAST 8 @ 750W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
G1	6 @ UPL-1	HM1		10.8	5.2	15
G2		HM2		10.8	5.2	15
G3		HM3		10.8	5.2	15
G4			HM4	14.4	6.9	15
G5		HM5		10.8	5.2	15
SPARE						15
<b>TOTAL</b>	<b>6</b>	<b>4</b>	<b>1</b>	<b>57.6</b>	<b>27.7</b>	

SEE SHEET "E1" FOR LEGEND & Δ NOTES

2			
1			
Rev.	Date	Description	Approved
<b>NORTH CAROLINA</b> <b>DEPARTMENT OF TRANSPORTATION</b> ROADWAY DESIGN LIGHTING/ELECTRICAL SECTION <b>LIGHTING LAYOUT</b> <b>FAYETTEVILLE OUTER LOOP/</b> <b>RAMSEY ST. INTERCHANGE</b> <b>CUMBERLAND COUNTY</b>			
Drawn By:	RGH	Approved By:	PAC
Dwg No.:			

I2-NOV-2015 12:21 ghtingElectrical.dgn Design: X:\0002cc\le-psht\_e11.dgn Pghall AT RD258147

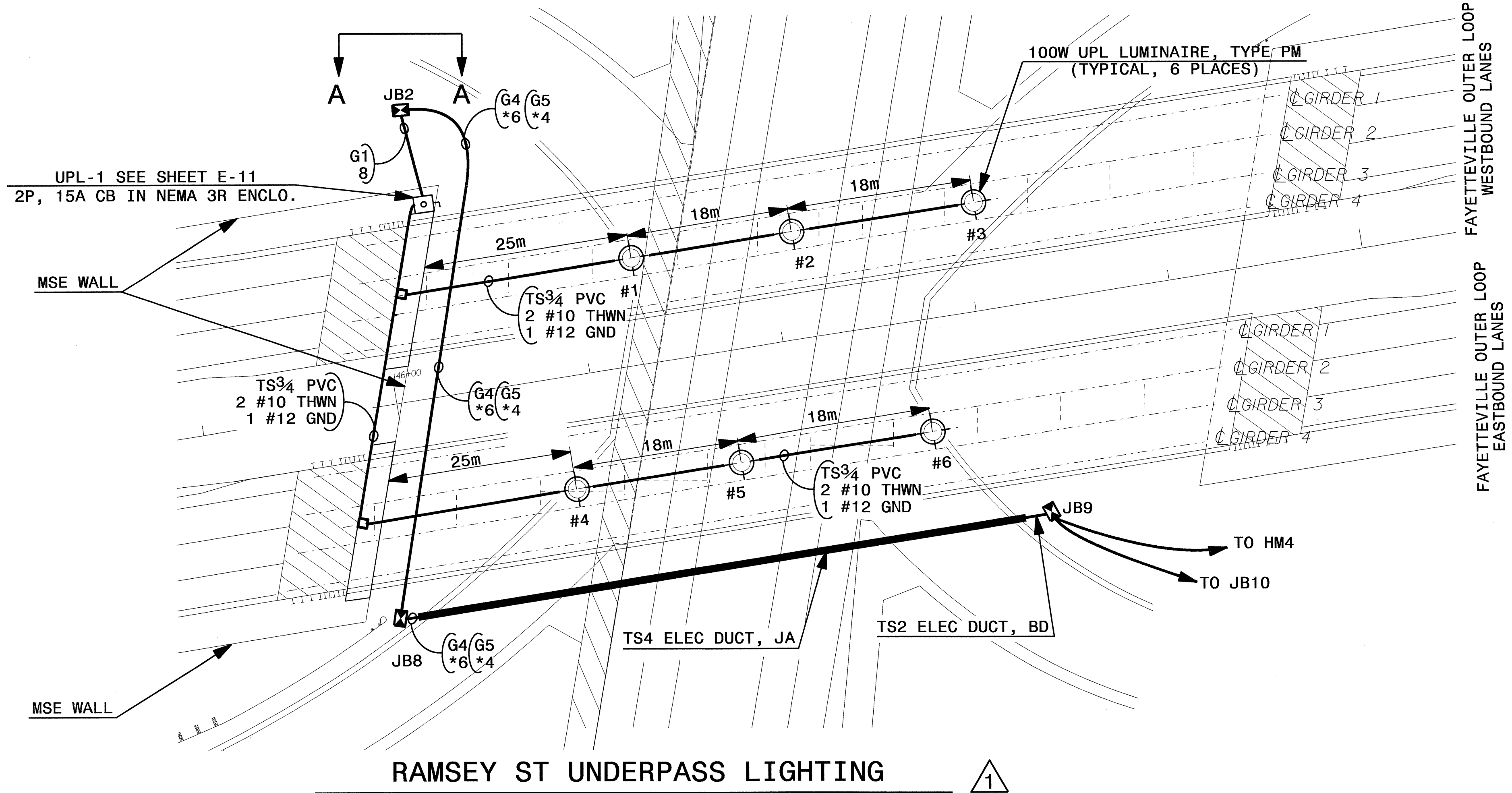
02/03/98

USE FOR LIGHTING CONSTRUCTION ONLY

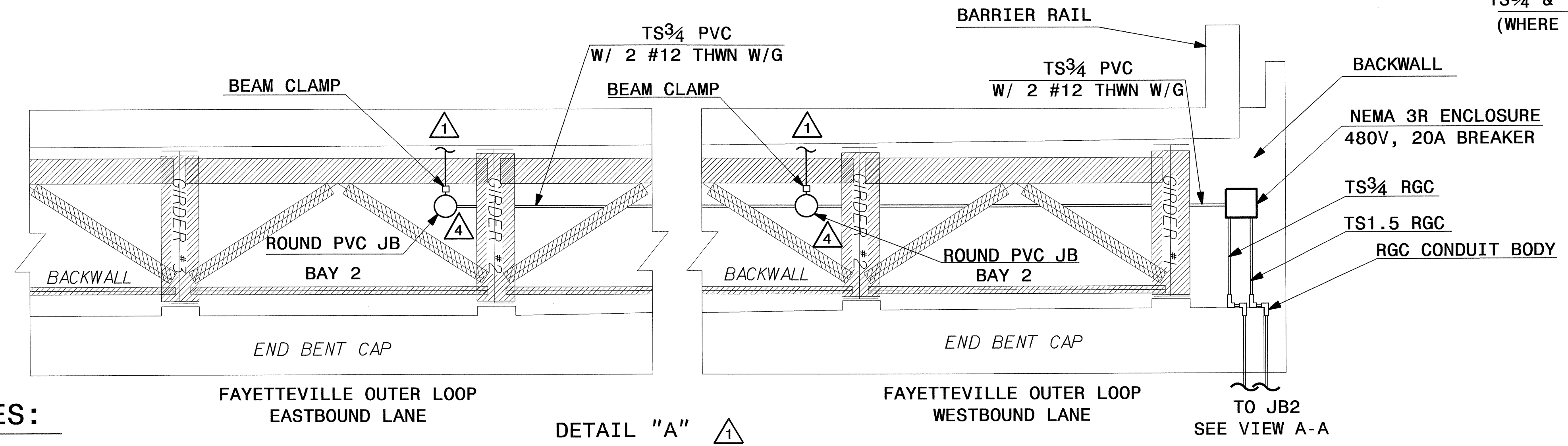
PROJECT REFERENCE NO. X-0002CC SHEET NO. E12

**METRIC**

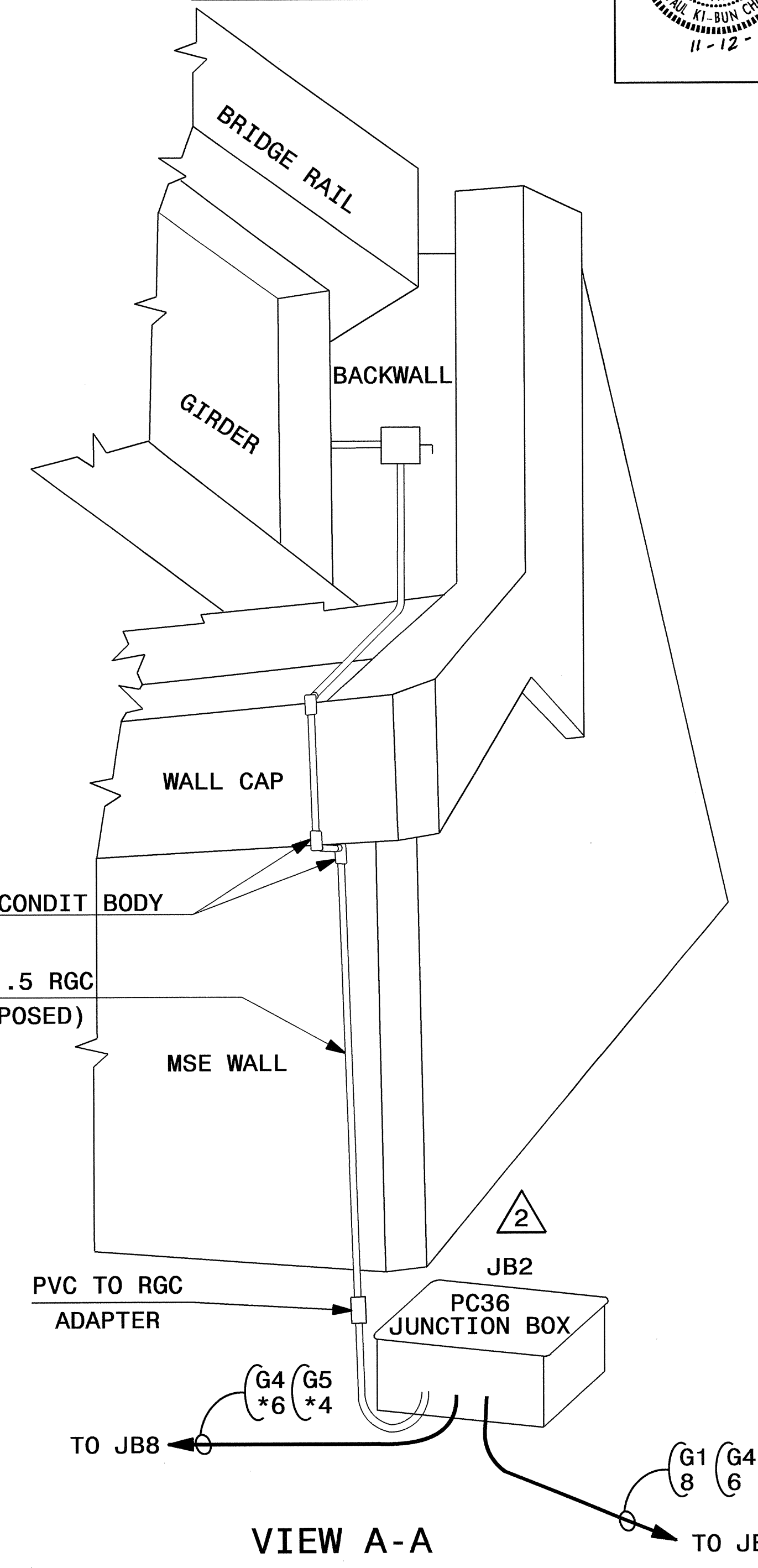
**NTS**



RAMSEY ST UNDERPASS LIGHTING 1



DETAIL "A" 1



VIEW A-A

NOTES:

- 1 FOR MATERIAL SPECIFICATIONS AND CONTINUATION OF CIRCUITRY REFER TO ROADWAY STANDARD DRAWING 1412.01 SHEET 1 OF 2
- 2 INSTALL JUNCTION BOX WITH 21MM/M (1/4 IN/FT) FALL AWAY FROM BOX FOR WATER DRAINAGE.
- 3 FIELD BEND OR USE CONDUIT BODIES AS REQUIRED.
- 4 CENTER LIGHTS BETWEEN GIRDERS

2			
1			
Rev.	Date	Description	Approved
<b>NORTH CAROLINA</b> <b>DEPARTMENT OF TRANSPORTATION</b> DESIGN SERVICES LIGHTING/ELECTRICAL SECTION <b>UNDERPASS LIGHTING LAYOUT</b> <b>FAYETTEVILLE OUTER LOOP /</b> <b>RAMSEY ST. INTERCHANGE</b> CUMBERLAND COUNTY			
Drawn By:	Approved By:	Dwg No.:	
RGH	PAC		

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