PROJECT REFERENCE NO.	SHEET NO.
R-5000	E1

LIGHTING ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 036073 ENGINEER BRENT L. BRANDT

7/19/2012

PLANS PREPARED BY:

RK&K

RUMMEL, KLEPPER & KAHL, LLP
601 N. CALVERT STREET
BALTIMORE, MARYLAND 21202
(410) 728-2900

PLANS AND DETAILS FOR PROPOSED LIGHTING / ELECTRICAL CONSTRUCTION

△ NOTES

△1 AT THESE LOCATIONS, PROVIDE ELECTRICAL DUCT IN ACCORDANCE WITH NEC REQUIREMENTS FOR AN APPROVED RACEWAY FOR ELECTRICAL CIRCUITS. WHEN MORE THAN ONE CIRCUIT IS INSTALLED IN A SINGLE RACEWAY, A SINGLE EQUIPMENT GROUNDING CONDUCTOR SIZED AS REQUIRED FOR THE LARGEST CIRCUIT SHALL BE USED.

△2 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.

△3 TYPE PC18 JUNCTION BOX – 18" L X 12" W X 18" H.

△4 INSTALL LIGHT POLE AND 10' TRUSS ARM ON BREAKAWAY BASE BEHIND GUARDRAIL AND IN FRONT OF RETAINING WALL.

△5 INSTALL LIGHT POLE AND 12' TRUSS ARM BEHIND GUARD RAIL.

△6 RELOCATE EXISTING LIGHT POLE AND LUMINAIRE. COMPLETELY REMOVE EXISTING FOUNDATION. SEE SHEET C-10 OF STRUCTURE PLANS FOR NEW FOUNDATION DETAILS AND LOCATIONS.

△7 INTERCEPT EXISTING CONDUIT RUN WITH A PC18 JUNCTION BOX. PULL BACK EXISTING CABLE INTO JUNCTION BOX AND COIL DURING CULVERT CONSTRUCTION. AFTER CULVERT CONSTRUCTION IS COMPLETE, RECONNECT EXISTING CABLES TO RELOCATED LIGHT THROUGH NEW CONDUIT.

△8 CONTRACTOR TO FIELD VERIFY EXISTING NUMBER AND SIZE OF CONDUIT AND CABLES. PHOTOGRAPHS INSIDE EXISTING JUNCTION BOX SHOW THE FOLLOWING CROSSING THE DRIVEWAY:
- CONDUIT #1, APPROXIMATE 1½" DIAMETER WITH (4) #8AWG CABLES
- CONDUIT #2, APPROXIMATE 1½" DIAMETER WITH (7) #8AWG CABLES
- CONDUIT #3, APPROXIMATE 2" DIAMETER WITH (9) #8AWG CABLES

REPLACE CONDUITS AND CABLES AS NEEDED IF IMPACTED BY CONSTRUCTION.

△9 CONTRACTOR SHALL FIELD VERIFY NUMBER AND SIZE OF CABLES SERVICING EXISTING LIGHTS AND REPLACE IN KIND. LIGHTS SHALL BE WIRED TO THE SAME CIRCUIT AND PHASE AS EXISTING.

△10 INTERCEPT EXISTING CONDUIT RUN WITH A PC18 JUNCTION BOX. PULL BACK EXISTING CABLE INTO JUNCTION BOX AND COIL DURING LIGHT STANDARD REMOVAL. AFTER REMOVAL OF THE LIGHT STANDARD IS COMPLETE, RECONNECT EXISTING PARKING LOT LIGHT STANDARDS TO REMAIN TO THE SAME CIRCUIT AND PHASE AS EXISTING. INSTALL NEW CONDUIT AND CABLE AS NEEDED TO ENSURE ALL PARKING LOT LIGHTS ARE OPERATIONAL UPON COMPLETION OF CONSTRUCTION.

△11 EXISTING LIGHT STANDARD TO REMAIN.

△12 REMOVE EXISTING PARKING LOT LIGHT STANDARD AND FOUNDATION. RETURN LIGHT STANDARD TO THE SOUTHWEST COMMUNITY COLLEGE.

△13 EXISTING JUNCTION BOX TO REMAIN.

△14 EXISTING JUNCTION BOX TO BE REMOVED AND REPLACED.

△15 CONTRACTOR TO FIELD VERIFY EXISTING NUMBER AND SIZE OF CONDUIT AND CABLES. PHOTOGRAPHS INSIDE EXISTING JUNCTION BOX SHOW THE FOLLOWING CROSSING THE DRIVEWAY:
- CONDUIT #1, APPROXIMATE 1" DIAMETER WITH (3) #8AWG CABLES

REPLACE CONDUIT AND CABLES AS NEEDED IF IMPACTED BY CONSTRUCTION.

△16 EXISTING JUNCTION BOX TO REMAIN OR BE REPLACED AS NEEDED IF IMPACTED BY CONSTRUCTION.

TABLE "A"
CIRCUITRY CONDUCTOR CONDUIT TYPE & SIZE

PLAN SYMBOL	DESCRIPTION		CONTRACT ITEM
8	2#8 ∅ 1 #10G 1.5" P	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 – 8 W/G FEEDER CIRCUIT IN 1.5" CONDUIT
*8	2#8 ∅ 1 #10G	2 AWG SIZE 8 CONDUCTOR (BK & RD) 1 AWG SIZE 10 GROUNDING CONDUCTOR	2 – 8 W/G FEEDER CIRCUIT

SCOPE OF WORK

PLACE ROADWAY LIGHITNG INTO SERVICE BY DESIGNING, FURNISHING AND INSTALLING SINGLE ARM STANDARDS WITH HIGH PRESSURE SODIUM LUMINAIRES, UNDERGROUND CIRCUITRY, CONTROL SYSTEMS AND JUNCTION BOXES.

DESIGN CRITERIA

2005 AASHTO ROADWAY LIGHTING DESIGN GUIDE

2011 NATIONAL ELECTRIC CODE

2011 AASHTO ROADSIDE DESIGN GUIDE

2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS AND LATEST INTERIM SPECIFICATIONS VALID AT TIME OF LETTING.

ABBREVIATIONS

LT	LEFT	PVC	PVC SCHEDULE 40 CONDUIT
RT	RIGHT	RGC	RIGID GALVANIZED STEEL CONDUIT
JA	JACKED	C	CONDUIT
MH	MOUNTING HEIGHT	CKT	CIRCUIT
∅	PHASE	N	NEUTRAL
SER LAT	SERVICE LATERAL	G	GROUND
AL	ARM LENGTH	USE	UNDERGROUND SERVICE ENTRANCE
BD	BURIED		

LUMINAIRE SCHEDULE

TYPE	LAMP	VOLTAGE	DISTRIBUTION	MOUNTING
COBRAHEAD	150W HPS	240V	TYPE III FULL CUTOFF	SINGLE TRUSS ARM: ARM LENGTH VARIES

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 AND AS MODIFIED BY THE REQUEST FOR PROPOSAL ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD NO.	TITLE
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 (AS MODIFIED BY DETAILS ON SHEET E3)
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 2012.

LEGEND

PROPOSED 30' SINGLE-ARM LIGHT STANDARD
150 WATT, HPS, FULL CUTOFF, DISTRIBUTION
TYPE III, 15' TRUSS ARM, UNLESS NOTED OTHERWISE

EXISTING RELOCATED PARKING LOT LIGHT STANDARD AND LUMINAIRES

PROPOSED CONTROL SYSTEM WITH PC36 JUNCTION BOX. BREAKER SIZE SHOWN IN LOAD SCHEDULES

JB1 — PROPOSED ELECTRICAL JUNCTION BOX SEE NOTES, THIS SHEET AND TABLE B ON SHEET E2

1 — REFERENCE TO CORRESPONDING NOTE AS NUMBERED

A1 / 6 — PROPOSED FEEDER CIRCUIT CONTROL SYSTEM(A), CIRCUIT(1) PLAN SYMBOL (6) SEE TABLE A, THIS SHEET

3#1/0 USE 2"C — PROPOSED SERVICE POLE AND LATERAL 30' CLASS 4
3#1/0 USE CONDUCTORS
2" CONDUIT

2", 3", OR 4" ELEC. DUCT JA & BD — PROPOSED ELECTRICAL DUCT SIZE 2", 3", OR 4" TYPE (JA) OR (BD)

LIGHTING NOTES AND LEGEND

LOCATION:
PROPOSED INTERCHANGE OF NC 107 AND NEW CONNECTOR

TIP NO.:	COUNTY:
R-5000	JACKSON

DESIGNED BY: W. BEBEN

CHECKED BY:	DATE:
H. HENCK	7/10/2012

7/19/2012
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PROJECT REFERENCE NO.	SHEET NO.
R-5000	E2

LIGHTING ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 036073 ENGINEER BARRY L. BRADSHAW

7/19/2012

PLANS PREPARED BY:

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PLANS AND DETAILS FOR PROPOSED LIGHTING / ELECTRICAL CONSTRUCTION

CONTROL SYSTEM "A"

TABLE "B"
JUNCTION BOX SUMMARY

NUMBER	LOCATION	TYPE	SHEET
JB1	Y2 STA. 13+26.62, 38.03′ LT	PC18	E4
JB2	Y1 STA. 17+29.07, 36.00′ RT	PC18	E4
JB3	Y1 STA. 17+29.09, 40.84′ LT	PC18	E4
JB4	Y2 STA. 13+24.32, 22.78′ RT	PC18	E4
JB5	Y1 STA. 19+12.57, 35.51′ RT	PC18	E4
JB6	Y1 STA. 19+12.75, 35.19′ LT	PC18	E4
TOTALS		6	

CONTROL SYSTEM "B"

TABLE "B"
JUNCTION BOX SUMMARY

NUMBER	LOCATION	TYPE	SHEET
JB7	Y4RPB STA. 13+83.12, 24.13′ LT	PC18	E5
JB8	Y4RPB STA. 13+84.55, 15.65′ RT	PC18	E5
JB9	L STA. 42+59.26, 29.48′ LT	PC18	E5
JB10	L STA. 42+55.70, 32.48′ RT	PC18	E5
JB11	Y4RPA STA. 22+76.78, 15.28′ LT	PC18	E5
TOTALS		5	

CONTROL SYSTEM "A"

TABLE "C"
ELECTRICAL DUCT SUMMARY (ESTIMATED LENGTH IN FEET)

			TYPE	
			JACKED (JA) FEET	BURIED (BD) FEET
LOCATION	RACEWAY (1)	SHEET	SIZE 4″	SIZE 2″
Y1 STA. 17+29.07	JB2 - JB3	E4	50′	77′
Y2 STA. 13+26.62	JB1 - JB4	E4	45′	61′
Y1 STA. 19+12.57	JB5 - JB6	E4	45′	71′
TOTALS			140′	209′

CONTROL SYSTEM "B"

TABLE "C"
ELECTRICAL DUCT SUMMARY (ESTIMATED LENGTH IN FEET)

			TYPE	
			JACKED (JA) FEET	BURIED (BD) FEET
LOCATION	RACEWAY (1)	SHEET	SIZE 4″	SIZE 2″
Y4RPA STA. 22+76.78	JB11 - CABINET	E5	30′	40′
L STA. 42+59.26	JB9 - JB10	E5	50′	62′
Y4RPB STA. 13+83.12	JB7 - JB8	E5	30′	40′
TOTALS			110′	142′

PARKING LOT SUMMARY TABLE NOTES:

1. JUNCTION BOX TABLES PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE LOCATION, SIZE, AND QUANTITY OF MATERIALS REQUIRED.

2. JUNCTION BOXES AND ELECTRICAL DUCTS ASSOCIATED WITH LIGHTING WORK IN THE SOUTHWEST COMMUNITY COLLEGE PARKING LOT WILL NOT BE QUANTIFIED SEPARATELY BUT WILL BE A PART OF THE LUMP SUM ITEM "REMOVE AND RELOCATE LIGHT STANDARDS."

3. ELECTRICAL DUCT SUMMARY TABLE IS NOT PROVIDED AS THE CONTRACTOR IS REQUIRED TO FIELD VERIFY EXISTING CONDITIONS AND REPLACE CONDUIT AS NECESSARY TO MATCH EXISTING CONDITIONS.

CONTROL SYSTEM "PARKING LOT"

TABLE "B"
JUNCTION BOX SUMMARY

NUMBER	LOCATION	TYPE	SHEET
JB12	DR1 STA. 12+23.81, 16.75′ LT	PC18	E6
JB13	DR1 STA. 13+44.90, 17.69′ LT	PC18	E6
JB14	DR1 STA. 14+72.04, 18.74′ LT	PC18	E6
JB15	DR1 STA. 15+94.04, 18.98′ LT	PC18	E6
JB16	DR1 STA. 16+03.68, 22.20′ RT	PC18	E6
JB17	DR3 STA. 10+17.59, 42.76′ RT	PC18	E6
JB18	DR3 STA. 10+99.68, 43.15′ RT	PC18	E6
JB19	DR3 STA. 12+19.86, 37.73′ RT	PC18	E6
TOTALS		8	

LIGHTING ELECTRICAL DUCT SUMMARY

LOCATION:
PROPOSED INTERCHANGE OF NC 107 AND NEW CONNECTOR

TIP NO.: R-5000 COUNTY: JACKSON

DESIGNED BY: W. BEBEN

CHECKED BY: H. HENCK DATE: 7/10/2012

7/19/2012
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PROJECT REFERENCE NO.	SHEET NO.
R–5000	E3

LIGHTING ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 036073 ENGINEER BARRY L. BRANDT

7/19/2012

PLANS PREPARED BY:

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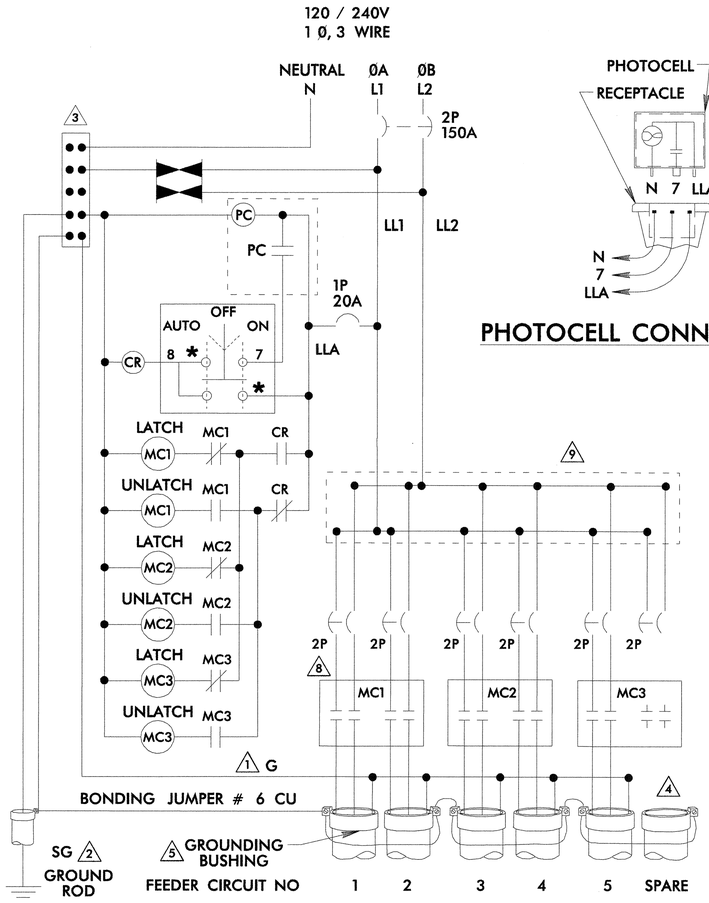
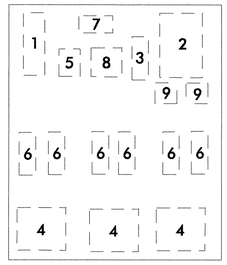


LIGHTING CONTROL SYSTEM SCHEMATIC

(MODIFICATION TO NC DOT STANDARD DRAWING 1408.01 SHEET 1 OF 3)
NOT TO SCALE

PHOTOCELL CONNECTIONS



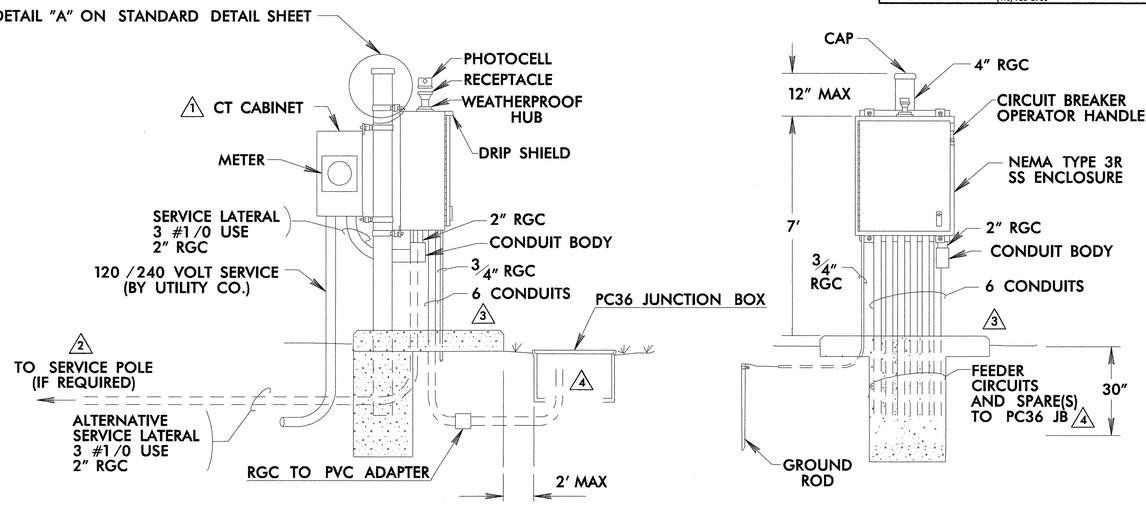
INTERIOR PANEL

COMPONENT LAYOUT

6 7 10 11

NOTES

1. CURRENT TRANSFORMER (CT) CABINET AND METER MAY BE MOUNTED ON SERVICE POLE OR BACK OF CONTROL ENCLOSURE.
2. SEE SECTION 1407 OF THE STANDARD SPECIFICATIONS FOR SERVICE POLE AND SERVICE LATERAL.
3. SEE DRAWINGS FOR SIZE OF CONDUITS AND/OR ELECTRICAL DUCT.
4. STUB FEEDER CIRCUIT CONDUITS INTO JUNCTION BOX. CAP UNUSED CONDUITS. FEEDER CIRCUITS MUST BE MINIMUM 30" BELOW GRADE
5. SEE SECTION 1411 OF THE STANDARD SPECIFICATIONS FOR JUNCTION BOX INSTALLATION.
6. ALL ABOVE GROUND CIRCUITRY TO BE INSTALLED IN RIGID GALVANIZED CONDUIT. UNDERGROUND FEEDER CIRCUITS TO BE INSTALLED IN SHC 40 PVC CONDUIT.
7. LIGHTING ARRESTOR INSTALLED OUTSIDE OF CABINET. NOT SHOWN FOR CLARITY.



LIGHTING CONTROL SYSTEM ASSEMBLY

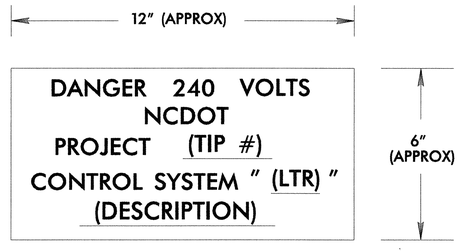
(MODIFICATION TO NC DOT STANDARD DRAWING 1408.01 SHEET 2 OF 3)
NOT TO SCALE

COMPONENT LIST

#	QTY	DESCRIPTION	SPECIFICATIONS
1	1	NEUTRAL BAR	
2	1	SERVICE CIRCUIT BREAKER	2P, 240V, 150A
3	1	CONTROL CIRCUIT BREAKER	1P, 120V, 20A
4	3	MECHANICALLY HELD CONTACTORS	4P, 240V, 60A W/120V COIL
5	1	CONTROL RELAY W/NC & NO CONTACT	120V, 10A, W/120V COIL
6	6	FEEDER CIRCUIT BREAKERS	2P, 240V, 50A MAX
7	1	LIGHTING ARRESTER	
8	1	SELECTOR SWITCH (ON–OFF–AUTO)	120V, 10A
9	2	POWER DISTRIBUTION LUGS OR BLOCKS	
		MOUNTING BRACKETS OR SCREW STUDS	

NOTES

1. EQUIPMENT GROUNDS (G) SHALL BE SIZED ACCORDING TO CIRCUIT DESCRIPTION. SEE PLANS.
2. SYSTEM GROUND (SG) SHALL BE CONTINUOUS FROM NEUTRAL BAR TO THE GROUNDING ELECTRODE (GROUND ROD).
3. THE NEUTRAL BAR SHALL BE BONDED TO THE PANEL.
4. FEEDER CIRCUITS NOT SHOWN ON THE PLANS SHALL NOT BE INSTALLED, BUT CONDUIT SHALL BE INSTALLED AND CAPPED.
5. INSTALL A GROUNDING BUSHING ON EACH METAL CONDUIT. CONNECT BONDING JUMPER AS REQUIRED BY NEC.
6. SEE NC DOT STANDARD SHEET 3 OF 3 DRAWING 1408.01 FOR ENCLOSURE.
7. THE CONTROL SYSTEM MUST BE LABELED "SUITABLE FOR USE AS SERVICE EQUIPMENT." REFER TO NC DOT STANDARD SPECIFICATION 1408–2 FOR OTHER REQUIREMENTS.
8. SEE DRAWINGS FOR BREAKER SIZES.
9. PROVIDE MULTI–TAP LOAD LUGS OR POWER DISTRIBUTION BLOCKS.
10. PROVIDE MANUFACTURER SUPPLIED MOUNTING BRACKETS OR SCREW STUDS PERMANENTLY ATTACHED TO THE BACK PANEL, FOR MOUNTING COMPONENTS.
11. INSTALL LIGHTING ARRESTOR ON OUTSIDE OF CABINET ASSEMBLY.



NEMA TYPE 3R STAINLESS STEEL ENCLOSURE LABEL

(MODIFICATION TO NC DOT STANDARD DRAWING 1408.01 SHEET 3 OF 3)
NOT TO SCALE

LIGHTING ELECTRICAL CONSTRUCTION DETAILS

LOCATION:	PROPOSED INTERCHANGE OF NC 107 AND NEW CONNECTOR
TIP NO.: R–5000	COUNTY: JACKSON
DESIGNED BY:	W. BEBEN
CHECKED BY: H. HENCK	DATE: 7/10/2012

7/19/2012
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Pegasus

USE FOR LIGHTING CONSTRUCTION ONLY

PROJECT REFERENCE NO.	SHEET NO.
R-5000	E4

LIGHTING ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 036073 ENGINEER BARRY L. BRAND

7/19/2012

PLANS PREPARED BY:

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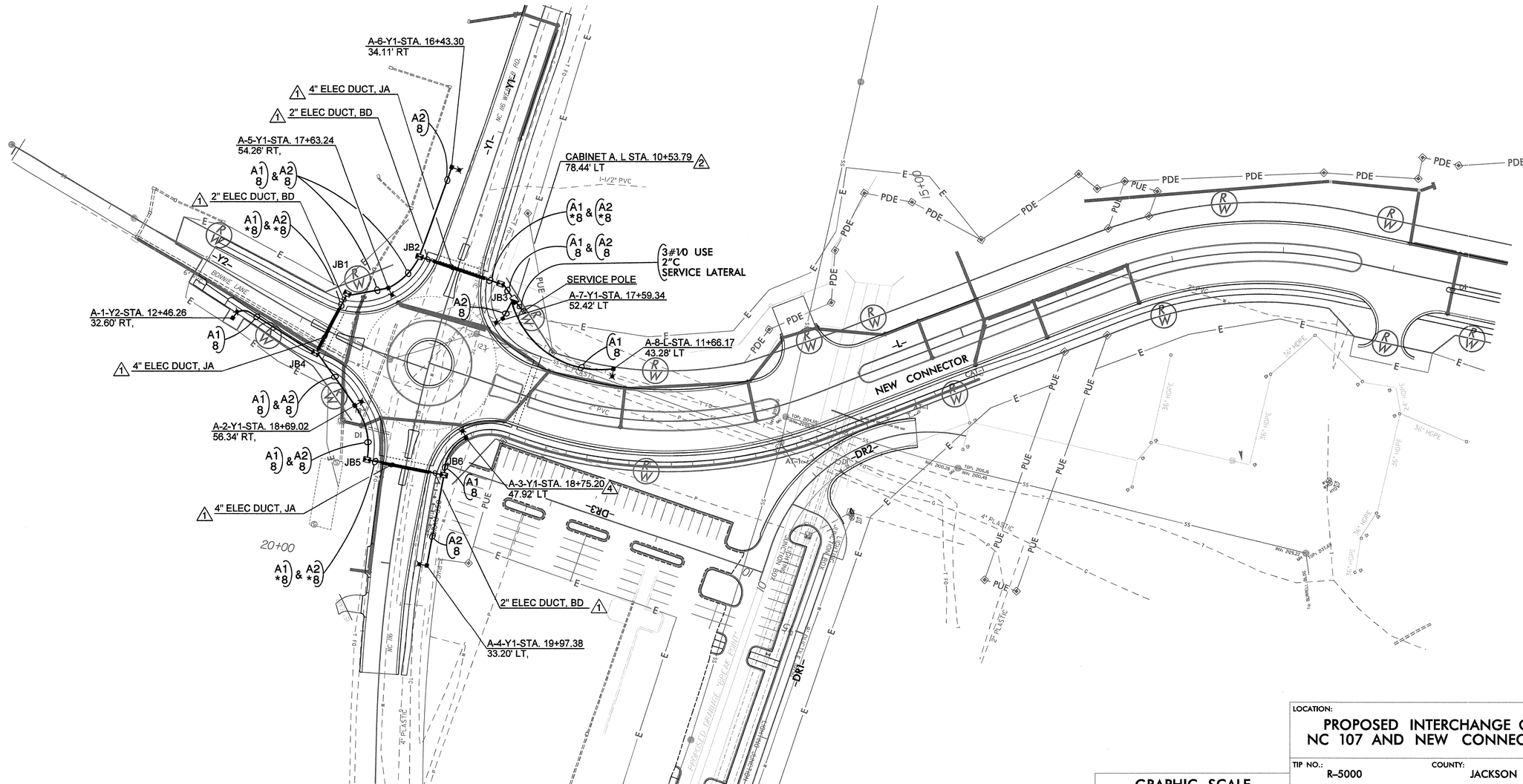
SEE SHEET "E1" FOR LEGEND & △ NOTES

NAD 83

LOAD SCHEDULE NC-116 – NEW CONNECTOR ROAD 1ø, 3W,120/240 VAC CONTROL SYSTEM "A"				
CKT	SINGLE ARM 1@150WATT	AMPS @240V	KW LOAD	BREAKER SIZE (AMPS)
A1	A-1, A-3 A-5, A-8	3.6	0.9 KW	20
A2	A-2, A-4 A-6, A-7	3.6	0.9 KW	20
SPARE	–	–	–	20
SPARE	–	–	–	20
SPARE	–	–	–	20
TOTAL	8	7.2	1.8	



LOCATION:
PROPOSED INTERCHANGE OF NC 107 AND NEW CONNECTOR

TIP NO.:	COUNTY:
R-5000	JACKSON
DESIGNED BY: W. BEBEN	
CHECKED BY: H. HENCK	DATE: 7/10/2012

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7/19/2012
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USE FOR LIGHTING CONSTRUCTION ONLY

PROJECT REFERENCE NO.	SHEET NO.
R-5000	E5

LIGHTING ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 036073 ENGINEER BRANDT L. BRANDT

7/19/2012

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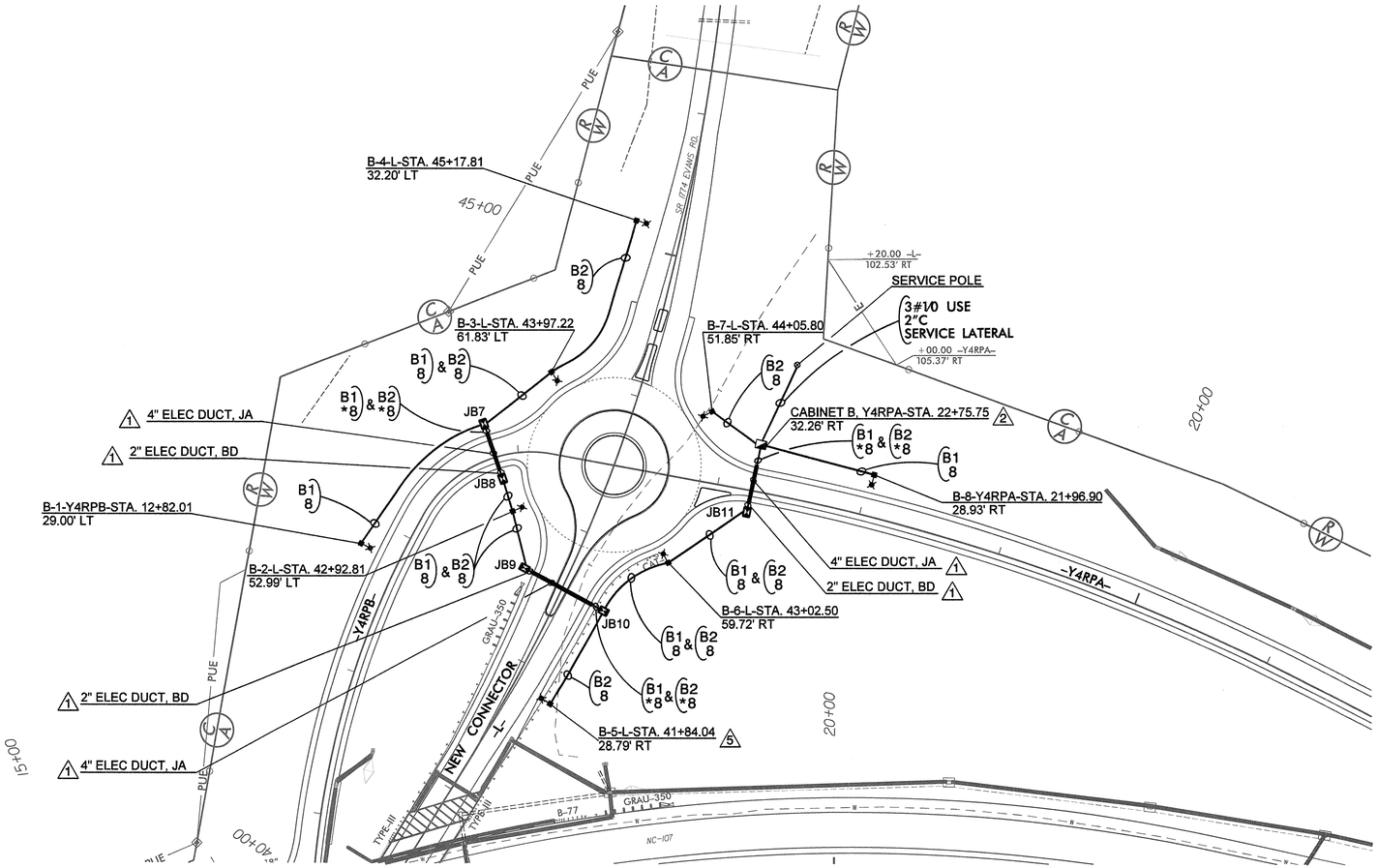
SEE SHEET "E1" FOR LEGEND & △ NOTES

LOAD SCHEDULE NC-116 – NEW CONNECTOR ROAD 1Ø, 3W,120/240 VAC CONTROL SYSTEM "B"				
CKT	SINGLE ARM 1@150WATT	AMPS @240V	KW LOAD	BREAKER SIZE (AMPS)
B1	B-1, B-3 B-6, B-8	3.6	0.9 KW	20
B2	B-2, B-4 B-5, B-7	3.6	0.9 KW	20
SPARE	–	–	–	20
SPARE	–	–	–	20
SPARE	–	–	–	20
TOTAL	8	7.2	1.8	



LOCATION: PROPOSED INTERCHANGE OF NC 107 AND NEW CONNECTOR	
TIP NO.: R-5000	COUNTY: JACKSON
DESIGNED BY: W. BEBEN	
CHECKED BY: H. HENCK	DATE: 7/10/2012

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USE FOR LIGHTING CONSTRUCTION ONLY

PROJECT REFERENCE NO.	SHEET NO.
R-5000	E6

LIGHTING ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 036073 ENGINEER BARRY L. BRANDT

7/19/2012

PLANS PREPARED BY:

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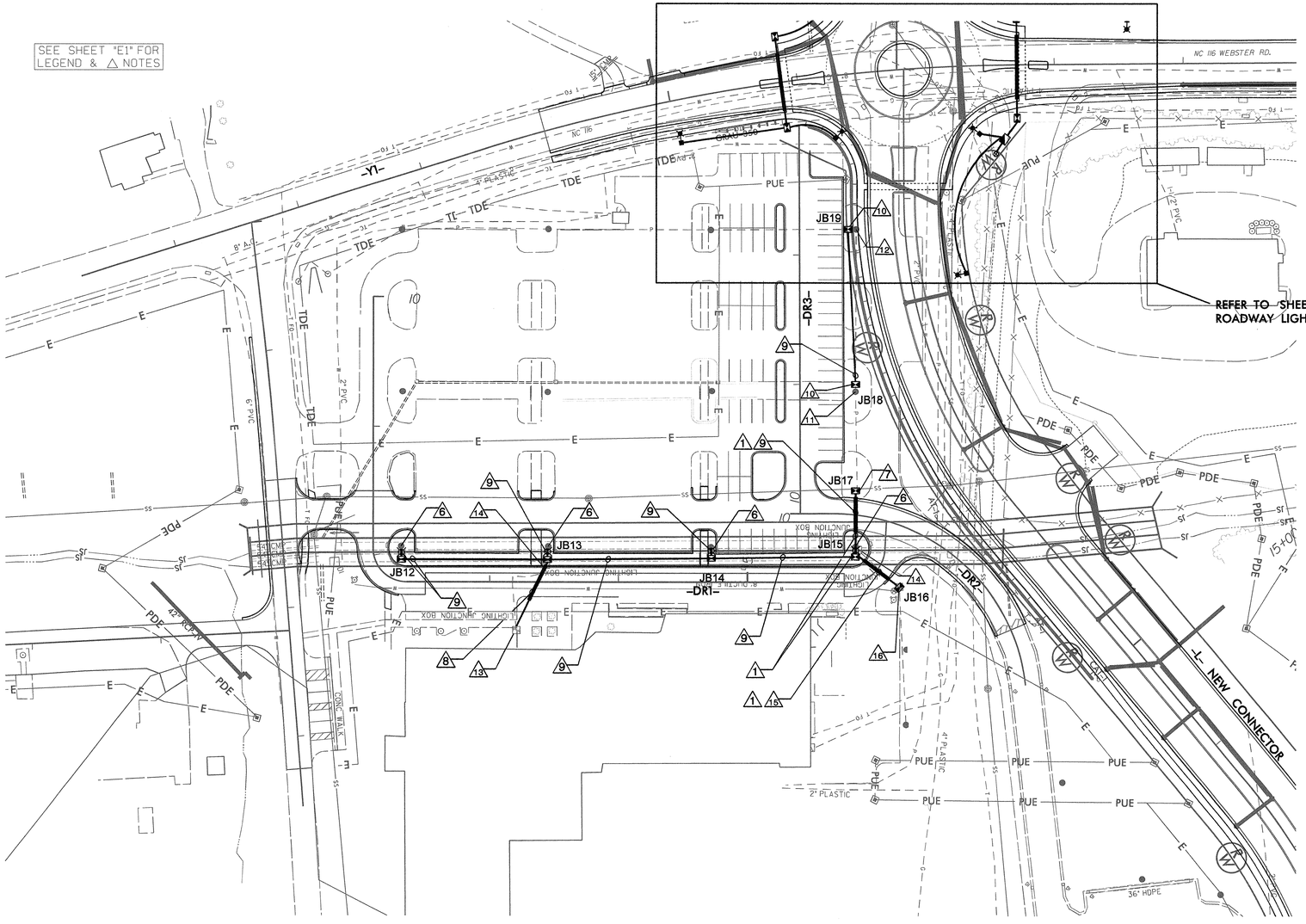
SEE SHEET "E1" FOR LEGEND & △ NOTES



REFER TO SHEET E4 FOR ROADWAY LIGHTING PLAN.

NAD 83

NOTES:

1. ALL WORK SHOWN ON THIS PLAN SHEET SHALL BE PAID FOR UNDER THE LUMP SUM ITEM "REMOVE AND RELOCATE LIGHT STANDARDS".

2. EXISTING UNDERGROUND ELECTRIC SERVICING THE PARKING LOT LIGHT STANDARDS IS UNKNOWN. THIS PLAN SHOWS A REPRESENTATION OF THE TYPE OF WORK ANTICIPATED TO REMOVE AND RESET THE EXISTING PARKING LOT LIGHT STANDARDS.

3. THE CONTRACTOR IS REQUIRED TO FIELD VERIFY THE EXISTING UNDERGROUND ELECTRIC SERVICING THE LIGHTS, INCLUDING NUMBER AND SIZE OF CONDUITS AND CABLES. CABLES SHALL BE REPLACED IN KIND AND INSTALLED IN CONDUIT SIZED PER NEC REQUIREMENTS.

4. ALL EXISTING LIGHTING TO REMAIN SHALL BE OPERATIONAL AT THE COMPLETION OF CONSTRUCTION. ALL LIGHTS SHALL BE CONNECTED TO THE SAME CIRCUIT AND PHASE AS EXISTING.

GRAPHIC SCALE
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PLANS

LOCATION:
PROPOSED INTERCHANGE OF NC 107 AND NEW CONNECTOR

TIP NO.:	COUNTY:
R-5000	JACKSON
DESIGNED BY: W. BEBEN	
CHECKED BY: H. HENCK	DATE: 7/102012

7/19/2012
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