02/03/98

PROJECT REFERENCE NO.	SHEET NO.
U-2826B	E1

PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

SEAL 022582 ENGINEER PAUL KI-BUN CHANG 8-20-10

△ NOTES

1. AT THESE LOCATIONS, PROVIDE ELECTRICAL DUCT IN ACCORDANCE WITH NEC EQUIRMENTS FOR AN APPROVED RACEWAY FOR ELECTRICAL CIRCUITS. SEE TABLE "C"
2. INSTALL ALL BORE PITS OUTSIDE THE CLEAR ZONE, AS DEFINED BY THE 2002 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 2002 AASHTO ROADSIDE DESIGN GUIDE.
5. TYPE PC18 JUNCTION BOXES ARE 18" L X 12" W X 18" H.
6. TYPE PC36 JUNCTION BOXES ARE 36" L X 24" W X 18" H.
7. REPLACE EXISTING PULL BOX WITH JB24. REPLACE EXISTING CIRCUITRY AND CONDUIT BETWEEN JB23 AND JB24.
8. INSTALL JB23 AND INTERCEPT EXISTING CONDUIT AND CIRCUITRY.

SCOPE OF WORK

PLACE ROADWAY LIGHTING SYSTEM INTO SERVICE BY PROVIDING AND INSTALLING 60', 80' & 100' HIGH MOUNT STANDARDS AND SINGLE ARM LIGHT STANDARDS WITH HIGH PRESSURE SODIUM LUMINAIRES, UNDERGROUND CIRCUITRY, CONTROL SYSTEM AND JUNCTION BOXES.

DESIGN CRITERIA

2005 AASHTO ROADWAY LIGHTING DESIGN GUIDE

2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 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 SHOWN IN AASHTO of 90 MPH.

DESIGN HIGH MOUNT STANDARD FOUNDATION FOR BASIC WIND SPEED OF 110 MPH. ANY CONTRACTOR-DESIGNED SITE SPECIFIC FOUNDATION DESIGN SHALL BE DESIGNED FOR THE SAME WIND SPEED

2008 NATIONAL ELECTRICAL CODE

2002 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 JULY 2006 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 (USE ATTACHED DETAIL SHEET 1402D01 IN LIEU OF STANDARD DRAWING 1402.01 SHEET 1 OF 1)
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 (USE ATTACHED DETAIL SHEET 1408D01 IN LIEU OF STANDARD DRAWING 1408.01 SHEET 2 OF 3)
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 JULY 2006.

LEGEND

- 60' — PROPOSED 60' HIGH MAST STANDARD W/ HM FOUNDATION & (4) HM LUMINAIRES 400W HPS, MEDIUM, CUTOFF, TYPE V
- 80' — PROPOSED 80' HIGH MAST STANDARD W/ HM FOUNDATION & (8) HM LUMINAIRES 400W HPS, MEDIUM, CUTOFF, TYPE V
- 100' — PROPOSED 100' HIGH MAST STANDARD W/ HM FOUNDATION & (6) HM LUMINAIRES 750W HPS, MEDIUM, CUTOFF, TYPE V
- PROPOSED CONTROL SYSTEM WITH PC36 JUNCTION BOX. BREAKER SIZE SHOWN IN LOAD SCHEDULE, SHEET E2 & E4.
- PROPOSED LIGHT STANDARD TYPE MTLT 45' WITH 15' SINGLE ARM. INCLUDES STANDARD FOUNDATION TYPE R1 OR R2 & 250W HPS FLAT GLASS ROADWAY LUMINAIRE. IES DISTRIBUTION: MEDIUM, CUTOFF, TYPE III
- EXISTING LIGHT STANDARD. STANDARD AND ARM TO BE REMOVED. CONCRETE FOUNDATION TO BE REMOVED OR ABANDONED. REFER TO SECTION 2.00 OF ROADWAY LIGHTING PROJECT SPECIAL PROVISIONS FOR POLE REMOVAL.
- EXISTING LIGHT STANDARD TO REMAIN IN PLACE.
- JB1 — PROPOSED ELECTRICAL JUNCTION BOX SEE DETAILS & TABLE B, THIS SHEET
- △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" — 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) LOCATION: SEE TABLE C, THIS SHEET
- EXISTING UNDERGROUND CIRCUITRY TO REMAIN
- EXISTING UNDERGROUND ELECTRICAL DUCT TO REMAIN
- EXISTING HIGH MAST
- EXISTING PULL BOX
- EXISTING CONTROL SYSTEM

TABLE "A"
CIRCUITRY CONDUCTOR CONDUIT TYPE & SIZE

PLAN SYMBOL	DESCRIPTION		CONTRACT ITEM
8	2 #8 Ø 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 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 1.5" P	2 AWG SIZE 6 CONDUCTOR (BK & RD) 1 AWG SIZE 8 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 6 W/G FEEDER CIRCUIT IN 1.5" 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 1.5" P	2 AWG SIZE 4 CONDUCTOR (BK & RD) 1 AWG SIZE 6 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 4 W/G FEEDER CIRCUIT IN 1.5" 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 1.5" P	2 AWG SIZE 2 CONDUCTOR (BK & RD) 1 AWG SIZE 4 GROUNDING CONDUCTOR 1.5" PVC CONDUIT	2 - 2 W/G FEEDER CIRCUIT IN 1.5" 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

EQUIVALENTS		
TRADE SIZE	METRIC	ENGLISH
½	16mm	½"
¾	21mm	¾"
1	27mm	1"
1.5	41mm	1½"
2	53mm	2"
3	78mm	3"

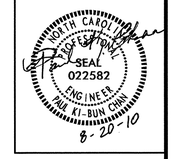
ABBREVIATIONS

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: AB DATE: 8-20-10
CHECKED BY: PKC DATE: 8-20-10

02/03/98

PROJECT REFERENCE NO.	SHEET NO.
U-2826B	E1A



PLANS AND DETAILS FOR PROPOSED LIGHTING /ELECTRICAL CONSTRUCTION

CONTROL SYSTEM "A"

TABLE "B"
JUNCTION BOX SUMMARY

NUMBER	LOCATION	TYPE		SHEET
JB1	STA. -L- 54+16 RT 667'	PC18		E2
JB2	STA. -L- 53+84 RT 940'	PC18		E3
JB3	STA. -L- 54+80 RT 940'	PC18		E3
JB4	STA. -L- 54+45 RT 480'		PC36	E2
JB5	STA. -L- 54+96 RT 562'	PC18		E2
JB6	STA. -L- 55+92 RT 562'	PC18		E2
JB7	STA. -L- 57+40 RT 555'	PC18		E2
JB8	STA. -L- 58+70 RT 424'	PC18		E2
JB9	STA. -L- 58+50 RT 394'	PC18		E2
JB10	STA. -L- 58+90 RT 286'	PC18		E2
JB11	STA. -L- 60+84 RT 286'	PC18		E2
JB12	STA. -L- 62+70 RT 85'	PC18		E2
JB13	STA. -L- 54+70 RT 330'	PC18		E2
JB14	STA. -L- 54+70 RT 294'	PC18		E2
JB15	STA. -L- 53+95 RT 175'	PC18		E2
JB16	STA. -L- 56+40 RT 65'	PC18		E2
JB17	STA. -L- 56+40 RT 70'	PC18		E2
JB18	STA. -L- 57+30 RT 176'	PC18		E2
JB19	STA. -L- 57+94 LT 300'	PC18		E2
JB20	STA. -L- 58+22 LT 314'	PC18		E2
JB21	STA. -L- 58+72 RT 526'	PC18		E2
JB22	STA. -L- 59+68 RT 526'	PC18		E2
JB23	STA. -I40LPD- 13+35 RT 50'	PC18		E3
JB24	STA. -I40LPD- 13+35 LT 50'	PC18		E3
TOTALS		23	1	

CONTROL SYSTEM "B"

TABLE "B"
JUNCTION BOX SUMMARY

NUMBER	LOCATION	TYPE		SHEET
JB1	-MLK- 35+10 RT 80'		PC36	E4
JB2	-L- 100+70 LT 60'		PC36	E4
JB3	-L- 98+80 LT 65'	PC18		E4
JB4	-L- 96+80 LT 55'	PC18		E4
JB5	-L- 94+83 LT 55'	PC18		E4
JB6	-L- 92+47 LT 55'	PC18		E4
JB7	-L- 100+70 LT 60'	PC18		E4
JB8	-MLK- 38+80 LT 170'	PC18		E4
JB9	-L- 101+78 LT 65'	PC18		E4
JB10	-MLKLPB- 11+32 LT 65'	PC18		E4
JB11	-MLKLPB- 17+78 RT 35'	PC18		E4
JB12	-MLKLPB- 17+78 LT 20'	PC18		E4
JB13	-L- 106+66 LT 82'	PC18		E4
TOTALS		11	2	

CONTROL SYSTEM "A"

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

I-40 / US 52 INTERCHANGE			TYPE					
			JACKED (JA) FEET			BURIED (BD) FEET		
LOCATION	RACEWAY ⚠1	SHEET	SIZE 3"	SIZE 4"	SIZE 6"	SIZE 2"	SIZE 3"	SIZE 4"
STA -L- 54+20 RT 485'		E2			35			
STA -L- 54+20 RT 485'	CS"A"JB - JB4	E2					80	
STA -L- 54+32 RT 940'		E3	110					
STA -L- 55+44 RT 562'		E2		110				
STA -L- 55+44 RT 562'	JB5 - JB6	E2				120		
STA -L- 58+60 RT 410'		E2	30					
STA -L- 54+70 RT 312'		E2	30					
STA -L- 56+40		E2		120				
STA -L- 56+40	JB16 - JB17	E2				130		
STA -L- 58+8 LT 306'		E2	30					
STA -L- 59+20 LT 526'		E2	110					
TOTALS			310	230	35	250	80	

CONTROL SYSTEM "B"

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

US 52 / MLK BLVD. INTERCHANGE			TYPE					
			JACKED (JA) FEET			BURIED (BD) FEET		
LOCATION	RACEWAY ⚠1	SHEET	SIZE 3"	SIZE 4"	SIZE 6"	SIZE 2"	SIZE 3"	SIZE 4"
-MLKRC- 24+34		E4		35				
-MLKRC- 24+34	CS"B"JB - JB1	E4				90		
-L- 100+70		E4	110					
-MLK- 35+80		E4	70					
-MLKLPB- 17+78		E4	30					
TOTALS			210	35		90		

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02/03/98

USE FOR LIGHTING CONSTRUCTION ONLY

PROJECT REFERENCE NO.	SHEET NO.
U-2826B	E2

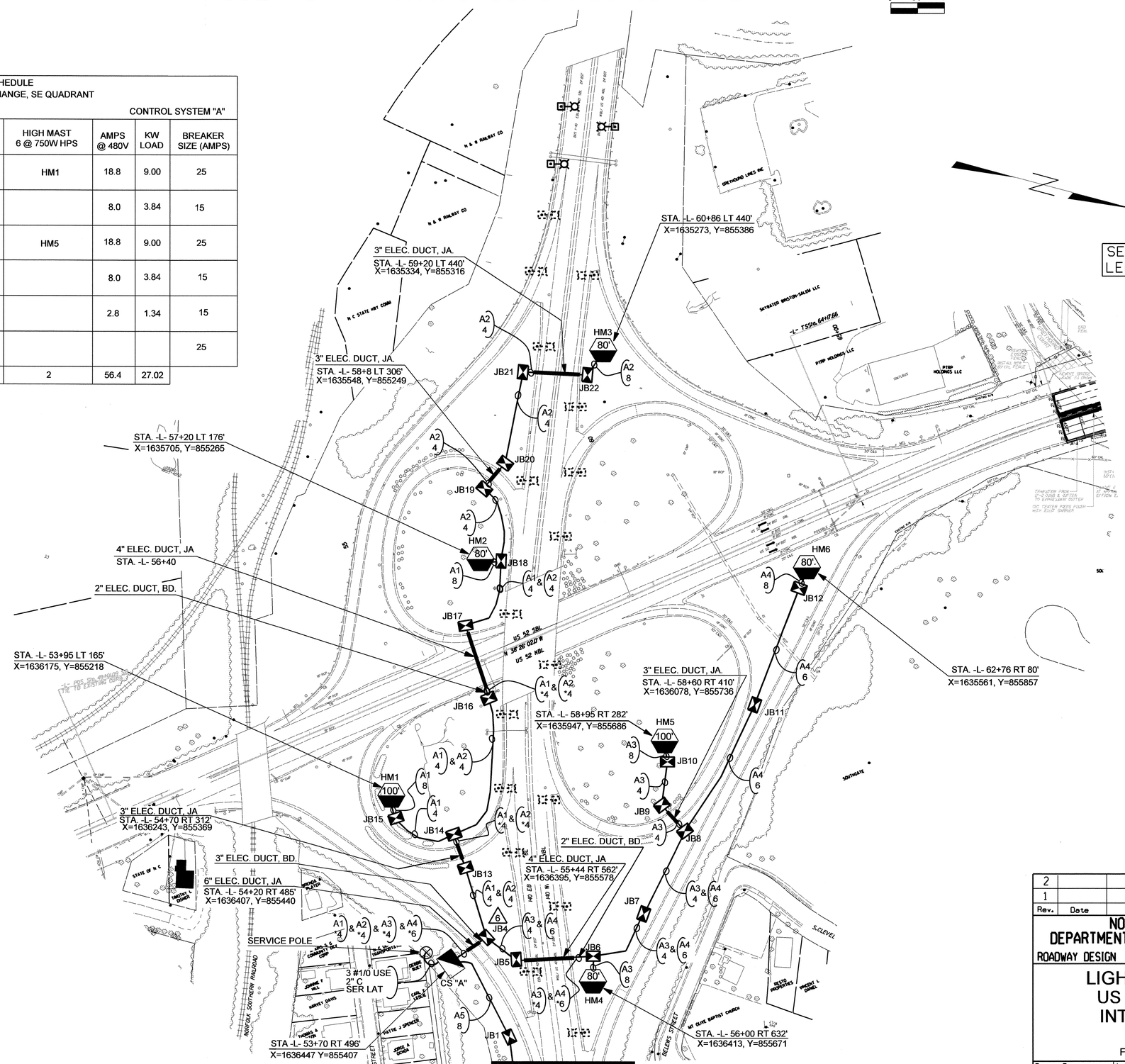
NORTH CAROLINA PROFESSIONAL SEAL 022582 ENGINEER PAUL KI-BUN CHIN 8-20-10

0 50 100

LOAD SCHEDULE
I-40 BUS./US 52 INTERCHANGE, SE QUADRANT

1Ø, 3W, 240/480 VAC — CONTROL SYSTEM "A"

CKT	SINGLE ARM 1 @ 250W HPS	HIGH MAST 8 @ 400W HPS	HIGH MAST 6 @ 750W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
A1		HM2	HM1	18.8	9.00	25
A2		HM3		8.0	3.84	15
A3		HM4	HM5	18.8	9.00	25
A4		HM6		8.0	3.84	15
A5	A1,A2,A3,A4			2.8	1.34	15
SPARE						25
TOTAL	4	4	2	56.4	27.02	



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

LIGHTING LAYOUT
US 52/I-40 BUS. INTERCHANGE

SHEET 1 OF 2

FORSYTH COUNTY

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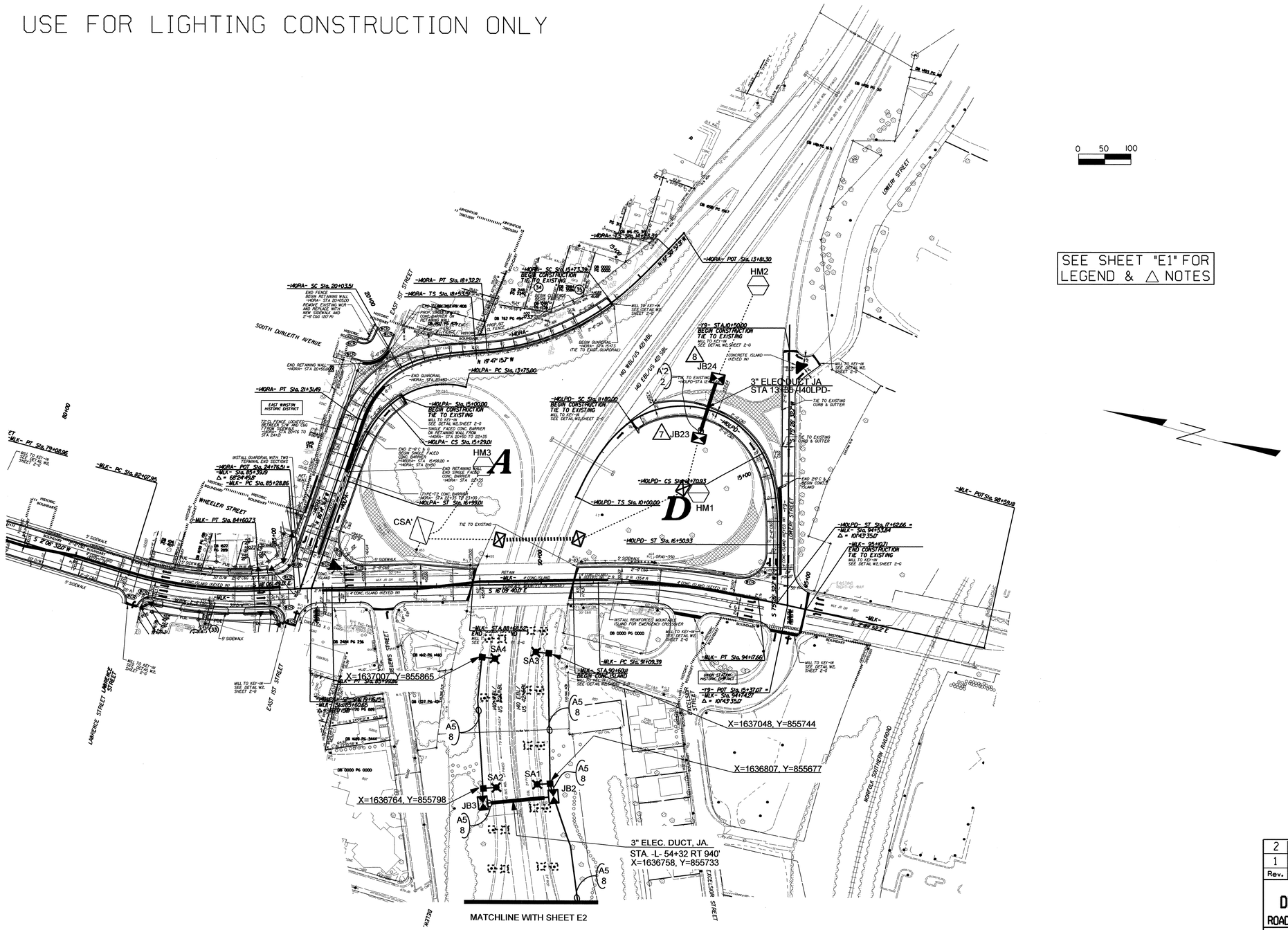
PROJECT REFERENCE NO.	SHEET NO.
U-2826B	E3

NORTH CAROLINA PROFESSIONAL SEAL 022582 ENGINEER PAUL KI-BUN CHAN
8-20-10

USE FOR LIGHTING CONSTRUCTION ONLY



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

LIGHTING LAYOUT
US 52/I-40 BUS. INTERCHANGE

SHEET 2 OF 2

FORSYTH COUNTY

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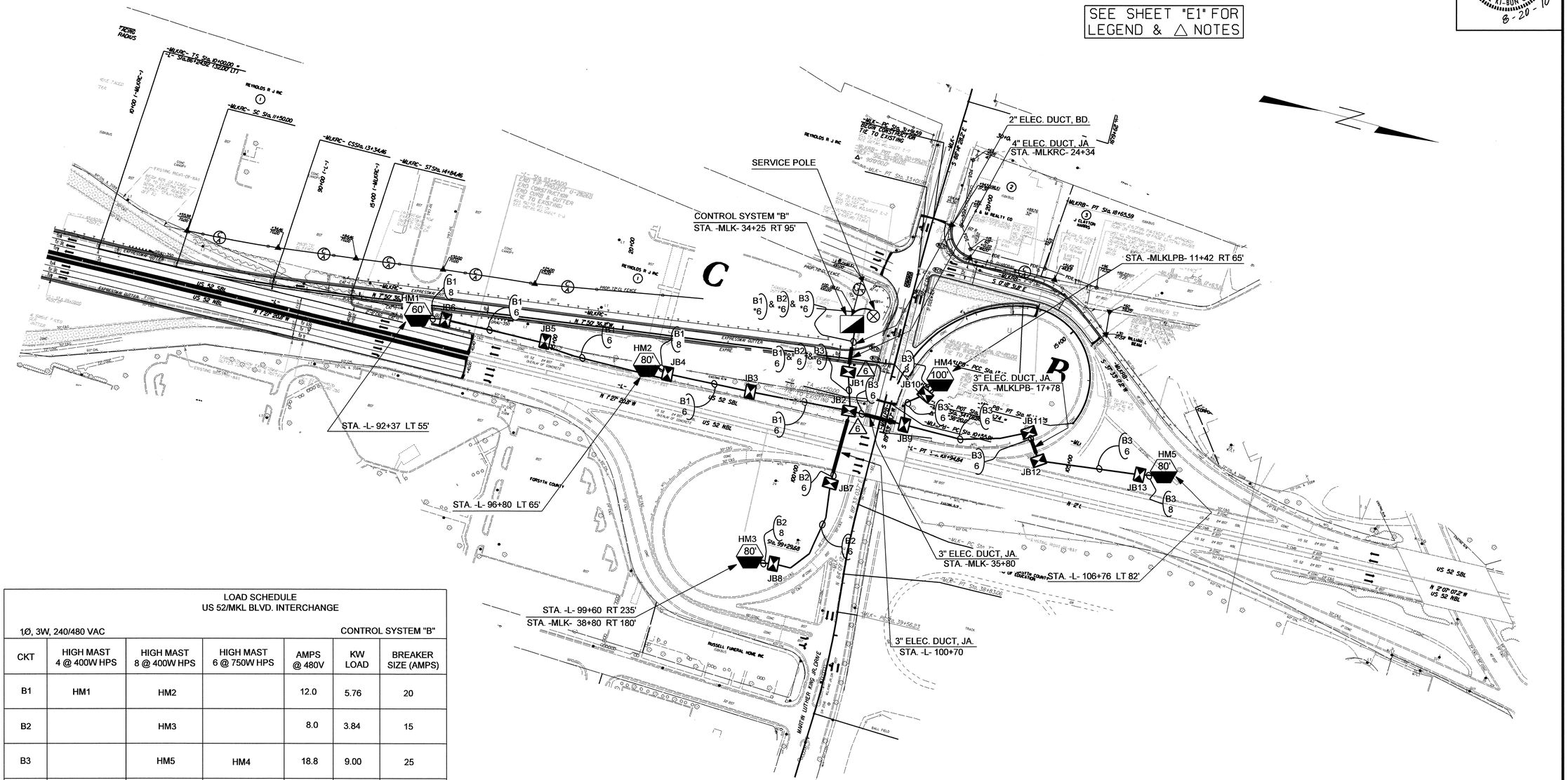
PROJECT REFERENCE NO.	SHEET NO.
U-2826B	E4

NORTH CAROLINA PROFESSIONAL SEAL 022582 ENGINEER PHILIP KI-BUN CHAN
8-20-10

USE FOR LIGHTING CONSTRUCTION ONLY

0 50 100

SEE SHEET "E1" FOR LEGEND & △ NOTES



LOAD SCHEDULE
US 52/MKL BLVD. INTERCHANGE

1Ø, 3W, 240/480 VAC — CONTROL SYSTEM "B"

CKT	HIGH MAST 4 @ 400W HPS	HIGH MAST 8 @ 400W HPS	HIGH MAST 6 @ 750W HPS	AMPS @ 480V	KW LOAD	BREAKER SIZE (AMPS)
B1	HM1	HM2		12.0	5.76	20
B2		HM3		8.0	3.84	15
B3		HM5	HM4	18.8	9.00	25
SPARE						25
TOTAL	1	3	1	38.8	18.60	

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

LIGHTING LAYOUT
US 52/ MLK JR BLVD INTERCHANGE

FORSYTH COUNTY

Drawn By:	Approved By:	Dwg No.:
AB	PKC 8-20-10	

02/03/98

PROJECT REFERENCE NO.	SHEET NO.
U-2826B	E5

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 022582 KI-BUN CHIN 8-20-10

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
LIGHT CONTROL SYSTEM
ASSEMBLY

SHEET 2 OF 3 **1408D01**

NOTES

△ CURRENT TRANSFORMER (CT) CABINET AND METER MAY BE MOUNTED ON SERVICE POLE OR BACK OF CONTROL ENCLOSURE.

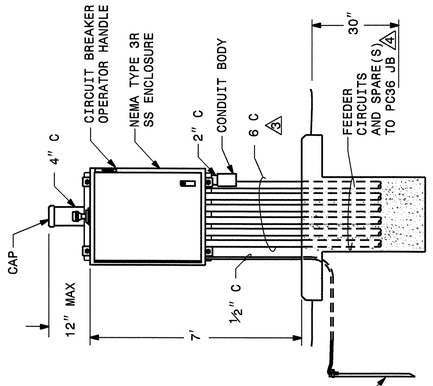
△ SEE SECTION 1407 OF THE STANDARD SPECIFICATIONS FOR SERVICE POLE AND SERVICE LATERAL.

△ SEE PLANS FOR SIZE OF CONDUITS AND/OR ELECTRICAL DUCT.

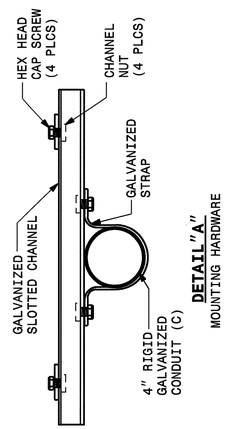
△ STUB FEEDER CIRCUIT CONDUITS INTO JUNCTION BOX. CAP UNUSED CONDUITS. FEEDER CIRCUITS MUST BE MINIMUM 30" BELOW GRADE

△ SEE SECTION 1411 OF THE STANDARD SPECIFICATIONS FOR JUNCTION BOX INSTALLATION.

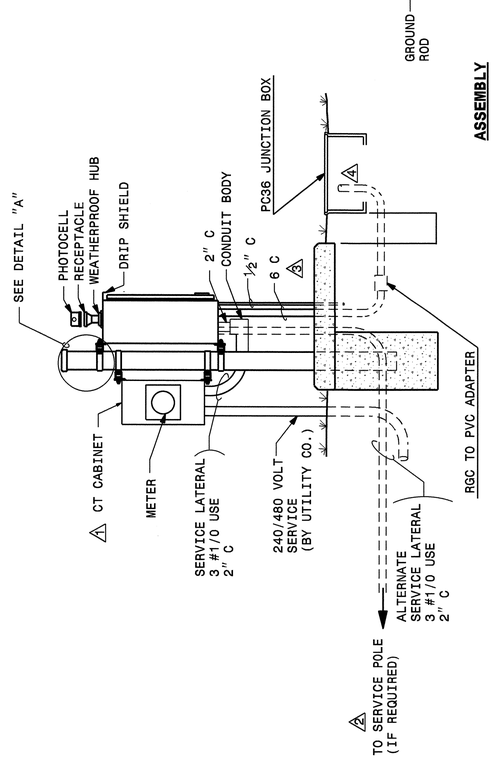
C= RIGID GALVANIZED CONDUIT



ASSEMBLY



DETAIL "A"
MOUNTING HARDWARE



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	7-06	ENGLISH STANDARD DRAWING FOR **LIGHT CONTROL SYSTEM** ASSEMBLY	SHEET 2 OF 3 **1408D01**

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 7-06

ENGLISH STANDARD DRAWING FOR
HIGH MOUNT FOUNDATION

SHEET 1 OF 1 **1402D01**

TABLE OF FOUNDATION DIMENSIONS AND QUANTITIES △3

HEIGHT OF HIGH MOUNT FT	DIAMETER "C" FT	STIRRUPS SIZE	STIRRUPS LAP-FT	WIND VELOCITY 90 MPH DEPTH "D" FT	V BARS QTY	V BARS SIZE	REINF.* STEEL LBS	CONCRETE CY	WIND VELOCITY 110 MPH DEPTH "D" FT	V BARS QTY	V BARS SIZE	REINF.* STEEL LBS	CONCRETE CY	WIND VELOCITY 130 MPH DEPTH "D" FT	V BARS QTY	V BARS SIZE	REINF.* STEEL LBS	CONCRETE CY
60	3.5	#3	1.0	11	8	#8	280	3.9	12	8	#8	306	4.3	13	8	#8	331	4.6
80	3.5	#3	1.0	12	8	#8	306	4.3	13	8	#8	331	4.6	15	8	#8	382	5.3
100	4.0	#3	1.0	13	8	#9	413	6.1	15	8	#9	477	7.0	16	8	#9	509	7.4
120	4.5	#3	1.0	15	8	#10	557	8.2	16	8	#10	636	9.4	18	8	#10	716	10.6

* INCLUDES STIRRUPS AND VERTICAL BARS (V BARS)

NOTES

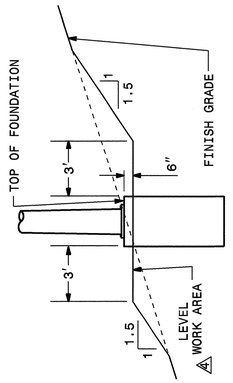
△ ANCHOR BOLTS
CONFORM NUMBER, SIZE, AND LENGTH OF ANCHOR BOLTS, BOLT CIRCLE DIAMETER "BC", AND ANCHOR BOLT PROJECTION "P" TO APPROVED HIGH MOUNT STANDARD DRAWINGS.

△ CONDUITS
MATCH ORIENTATION, QUANTITY, TYPE, AND SIZE OF CONDUITS TO THE LAYOUT SHEETS. STUB AND CAP ONE SPARE CONDUIT AT EACH FOUNDATION. PROJECT CONDUIT A MAXIMUM OF 2" ABOVE TOP OF FOUNDATION. PLACE CONDUIT 30" BENEATH FINISH GRADE.

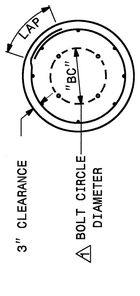
△ DIMENSIONS & QUANTITIES
DIMENSIONS AND QUANTITIES OF CONCRETE AND REINFORCING STEEL ARE GIVEN FOR THE PURPOSE OF OBTAINING BID PRICES ONLY. SEE STANDARD SPECIFICATIONS SECTION 1402, FOR OTHER STRUCTURAL REQUIREMENTS.

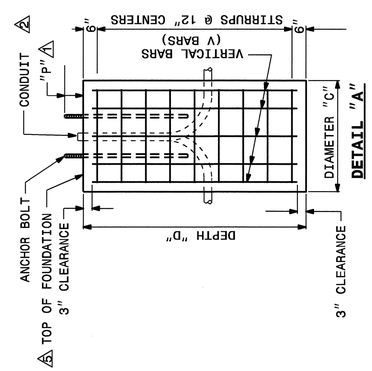
△ WORK AREA
PROVIDE A LEVEL WORK AREA AROUND EACH FOUNDATION. CUT/FILL SLOPES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

△ ELEVATION
SET TOP OF FOUNDATION AT 6" ABOVE LEVEL WORK AREA. SEE DETAIL "B".



DETAIL "B"





DETAIL "A"

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	7-06	ENGLISH STANDARD DRAWING FOR **HIGH MOUNT FOUNDATION**	SHEET 1 OF 1 **1402D01**

Rev.	Date	Description	Approved
2			
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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN — LIGHTING/ELECTRICAL SECTION

LIGHT CONTROL ASSEMBLY & HIGH MOUNT FOUNDATIONS SPECIAL DETAILS

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