

CONTRACT: CXXXXXX TIP PROJECT: I-5987B

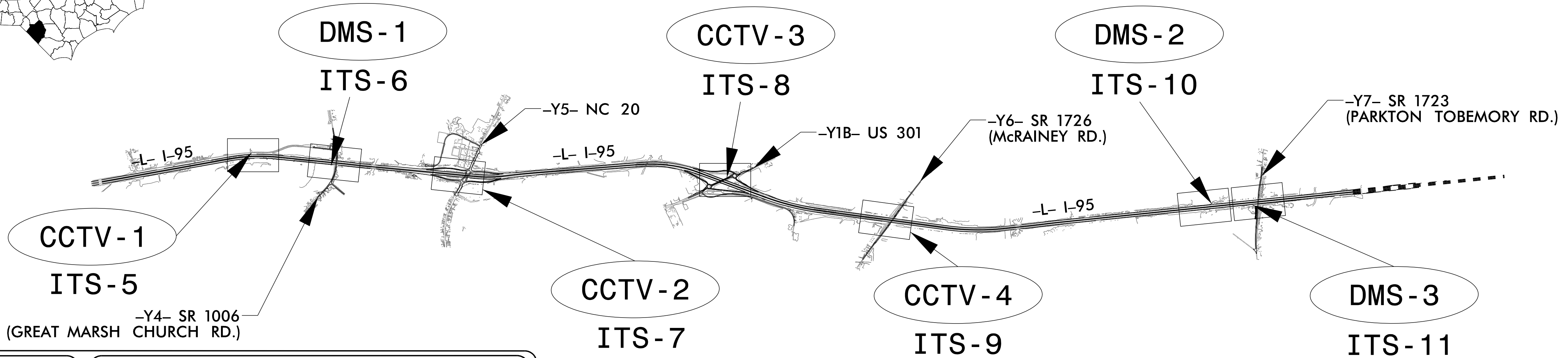
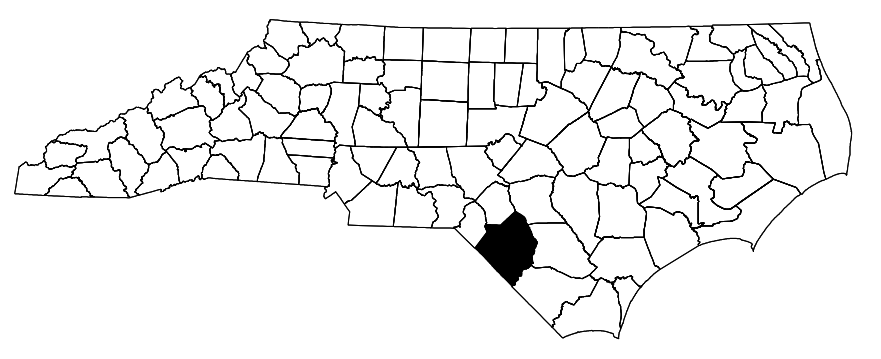
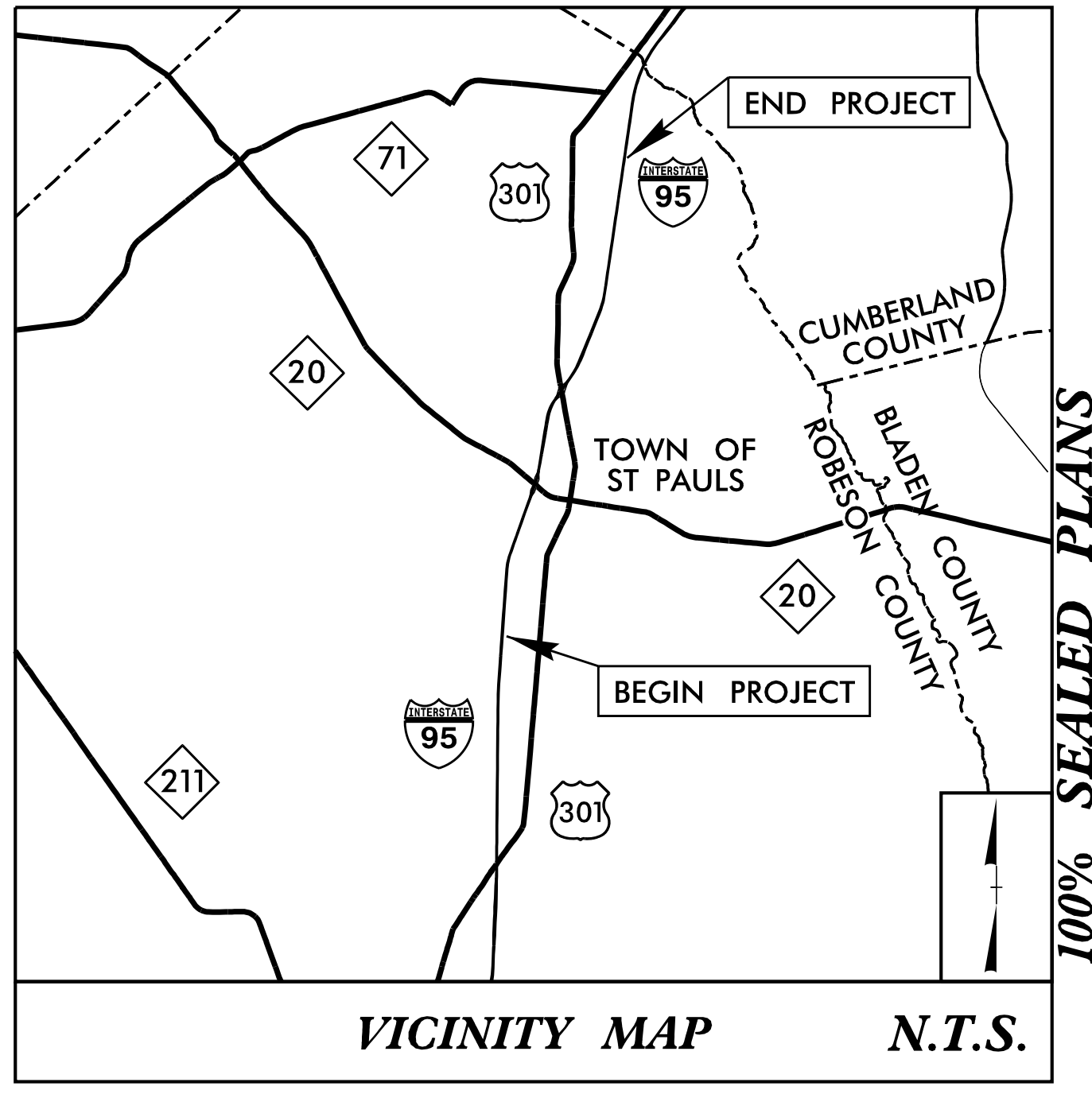
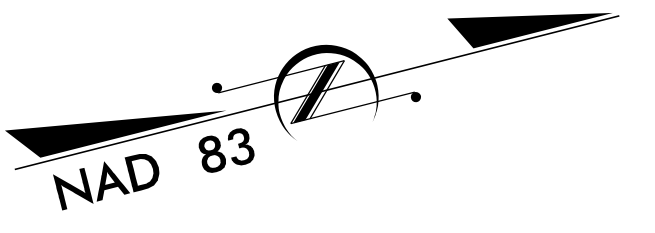
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	I-5987B	ITS-1
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
47533.3.3		CONST.

ROBESON COUNTY

LOCATION: LUMBERTON - I-95 FROM MM 29 TO MM 37

**TYPE OF WORK: CCTV CAMERA AND
DYNAMIC MESSAGE SIGN INSTALLATIONS**



2018 STANDARD SPECIFICATION

PROJECT LENGTH
PROJECT LENGTH = 8 MILES

LETTING DATE:
JULY 19, 2022

INDEX OF SHEETS

SHEET ITS 1	TITLE SHEET
SHEET ITS 2	DEVICE LOCATIONS
SHEET ITS 3-4	CONSTRUCTION NOTES
SHEET ITS 5-11	CCTV / DMS INSTALLATION
SHEET ITS 12-14	DMS CROSS SECTIONS
SHEET ITS 15	CCTV TYPICAL DETAIL
SHEET ITS 16	DMS ELECTRICAL SERVICE AND GROUNDING DETAIL

ROADWAY STANDARD DRAWINGS

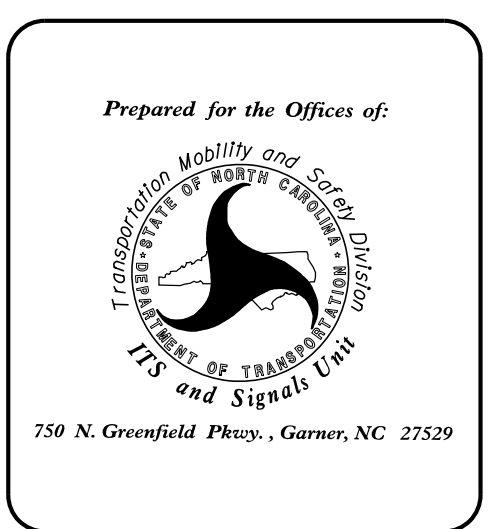
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1700.01	ELECTRICAL SERVICE OPTIONS
1700.02	ELECTRICAL SERVICE GROUNDING
1715.01	UNDERGROUND CONDUIT-TRENCHING
1716.01	JUNCTION BOXES

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

NCDOT CONTACTS:

Frank D. West, Jr. - Div. 6 Traffic Engineer
Janet A. Whetstone-Perez, PE - Regional Traffic Engineer
Andrew J. Suce, PE - ITS Development & Design



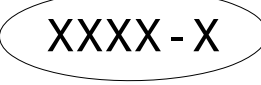
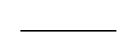
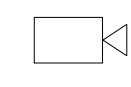


ENGLISH

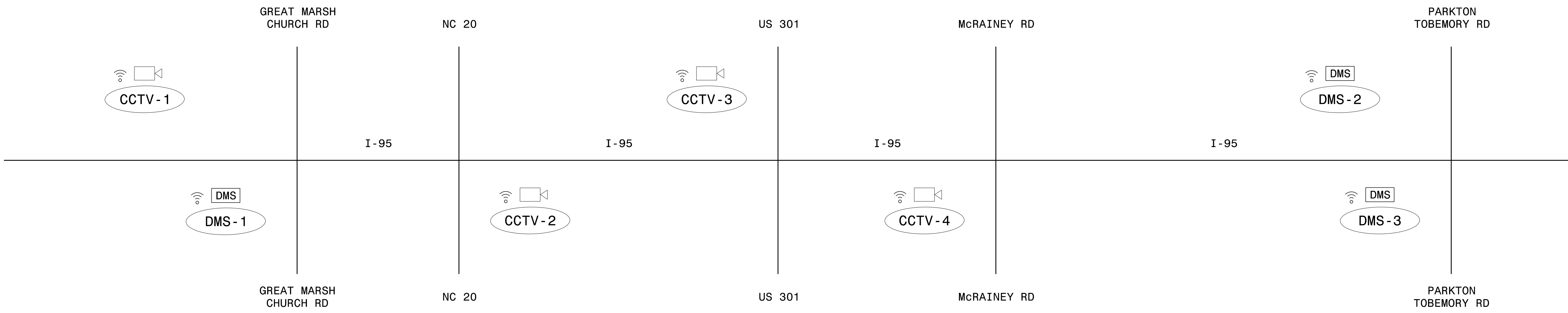
ALL DIMENSIONS IN THESE PLANS ARE IN FEET UNLESS OTHERWISE NOTED

SEAL

Designed by: Steven G. Haynie DATE: 3/18/2022

LEGEND

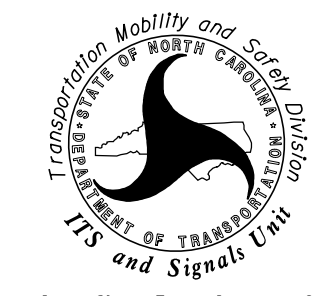


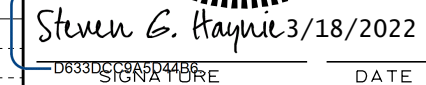
	DEVICE ID NUMBER
	ROADWAY
	PROPOSED CCTV
	PROPOSED DMS
	CELLULAR MODEMS



3/11/2022 8:36:05 AM R:\ITS\665\001\Map\Sheet\I-5987B_ITS_psh_02.dgn

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



 Prepared for the Offices of: Transportation, Mobility and Safety Division DEPARTMENT OF TRANSPORTATION ITS and Signals Unit 750 N. Greenfield Pkwy, Garner, NC 27529	Device Location Schematic		SEAL  SEVEN G. HAYNIE ENGINEER 029531 NORTH CAROLINA PROFESSIONAL											
	Division 6 Robeson County Lumberton PLAN DATE: March 2022 REVIEWED BY: S.G. Haynie PREPARED BY: O. Drobny REVIEWED BY: J. S. Cole	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS	INIT.	DATE								
REVISIONS	INIT.	DATE												
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LEGEND

	EXISTING COMMUNICATIONS CABLE		EXISTING ELECTRICAL SERVICE
	EXISTING COMMUNICATIONS CABLE TO BE REMOVED		SIGNAL POLE
	NEW CONDUIT		EXISTING ANTENNA
	EXISTING CONDUIT		CCTV /DMS NUMBER
	NEW DIRECTIONAL DRILLED CONDUIT		SIGNAL INVENTORY NUMBER
	EXISTING GUARDRAIL		NEW JUNCTION BOX
	NEW GUARDRAIL		EXISTING JUNCTION BOX
	NEW CHAIN LINK FENCE		NEW OVERSIZED HEAVY DUTY JUNCTION BOX WITH SPLICE ENCLOSURE
	EXISTING RIGHT OF WAY		EXISTING OVERSIZED HEAVY DUTY JUNCTION BOX WITH SPLICE ENCLOSURE
	NEW CCTV CAMERA ASSEMBLY		NEW WOOD POLE
	EXISTING CCTV CAMERA ASSEMBLY		EXISTING WOOD POLE
	NEW STANDARD GUY ASSEMBLY		NEW METAL POLE
	EXISTING STANDARD GUY ASSEMBLY		EXISTING METAL POLE
	NEW SIGNAL CABINET		STEP-UP STEP-DOWN TRANSFORMER
	EXISTING SIGNAL CABINET		NEW DMS
	NEW ITS EQUIPMENT CABINET		EXISTING DMS
	EXISTING ITS EQUIPMENT CABINET		
	NEW SOLAR PANEL ASSEMBLY		
	NEW ELECTRICAL SERVICE		

CONSTRUCTION NOTE SYMBOLOGY KEY

NUMBER OF CABLE(S), LOOPS, ETC.		NUMBER OF FIBERS / TWISTED PAIRS PER CABLE, ETC.
NUMBER OF RISER(S) / CONDUIT(S)		DIAMETER OF RISER(S) / CONDUIT(S) (INCH)
NUMBER OF DEVICES		NUMBER OF FIBERS
NUMBER OF CABLES		REMOVE OR MODIFY CABLE

ATTACHMENT POINT

	DISTANCE ABOVE INCHES REFERENCE POINT
	REFERENCE POINT DISTANCE BELOW INCHES

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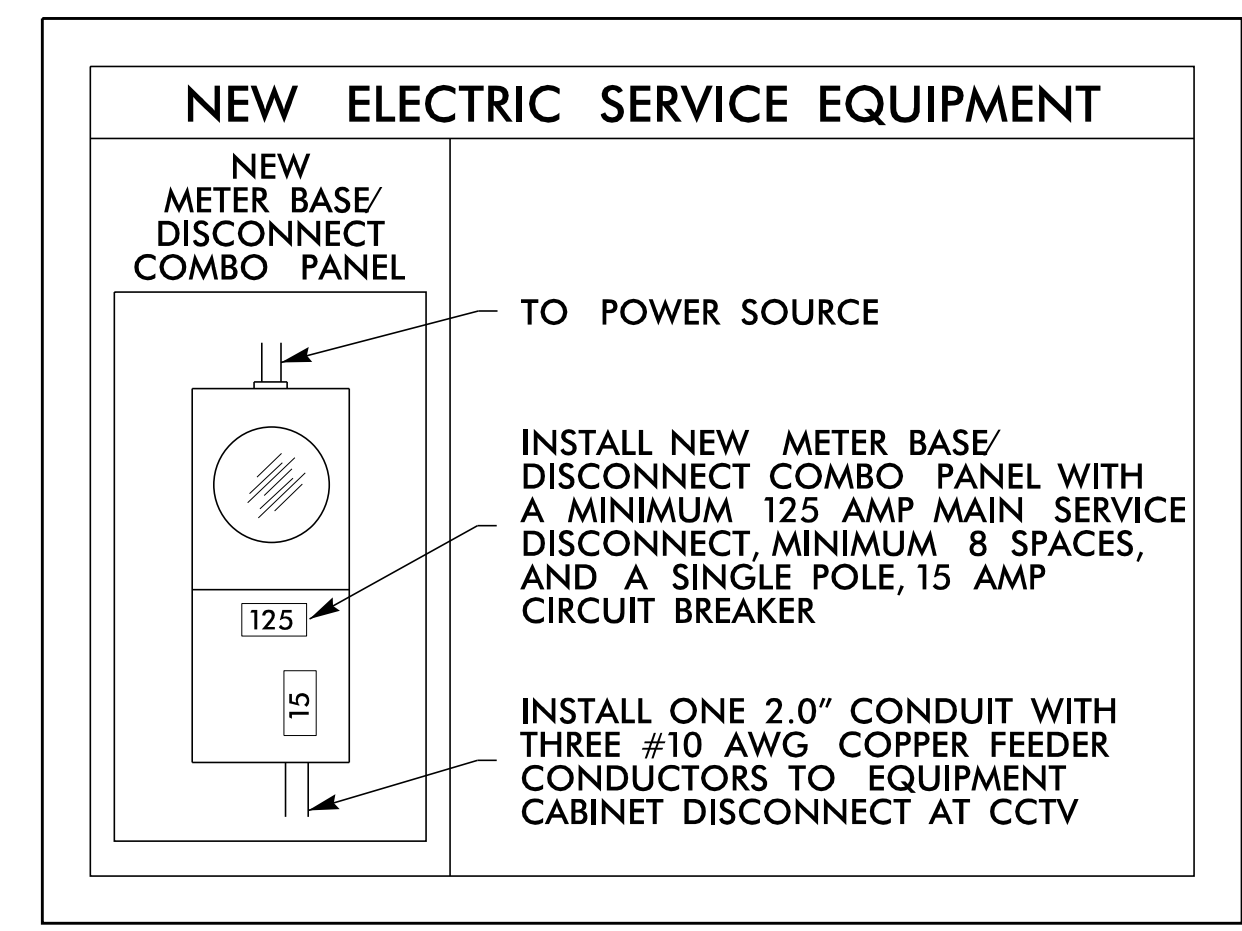
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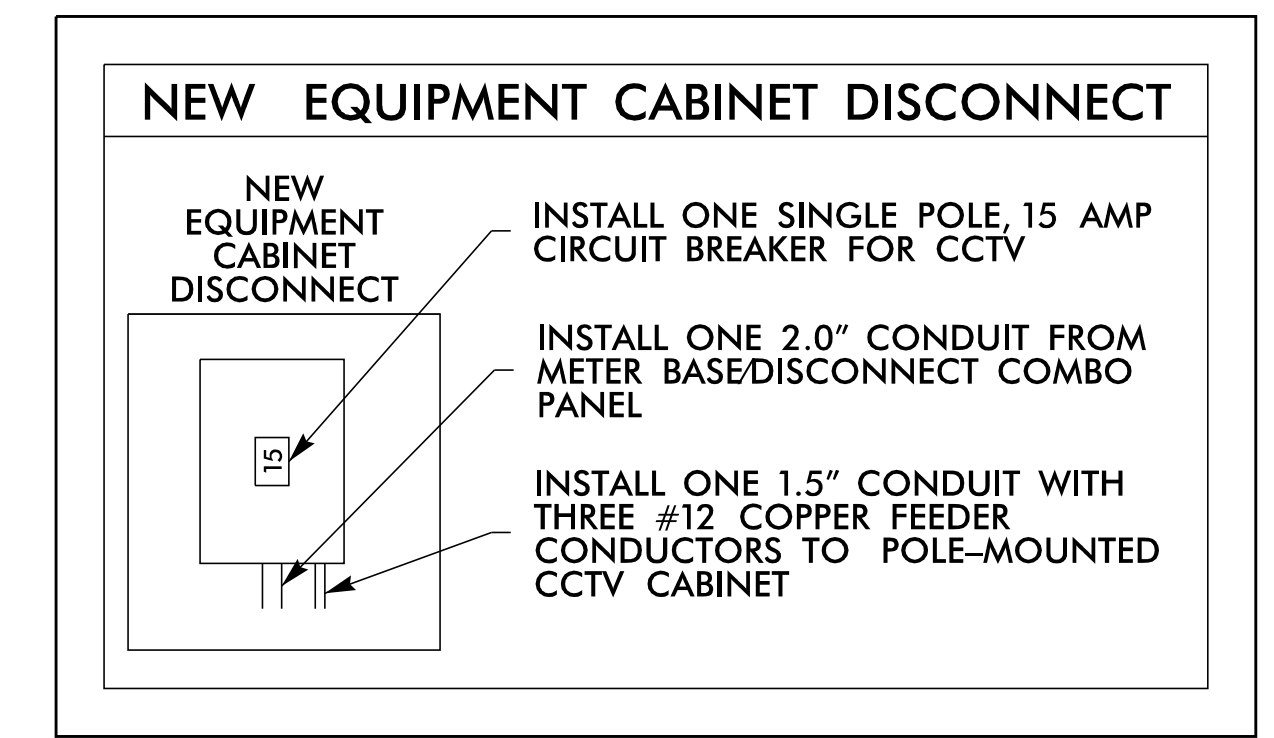
Prepared for the Offices of:		Construction Note Symbolology/ Legend Division 6 Robeson County Lumberton		SEAL SEVEN G. HAYNIE ENGINEER
PLAN DATE:	March 2022	REVIEWED BY:	S.G. Haynie	DocuSigned by: Steven G. Haynie 3/18/2022 DATE
PREPARED BY:	O. Drobny	REVIEWED BY:	J. S. Cole	
REVISIONS		INIT.		DATE

NC FIRM LICENSE No: F-0493 750 N. Greenfield Pkwy, Garner, NC 27529
8521 SIX FORKS ROAD, SUITE 400 RALEIGH, NC 27615 (919) 926-4100

DRAWING #1

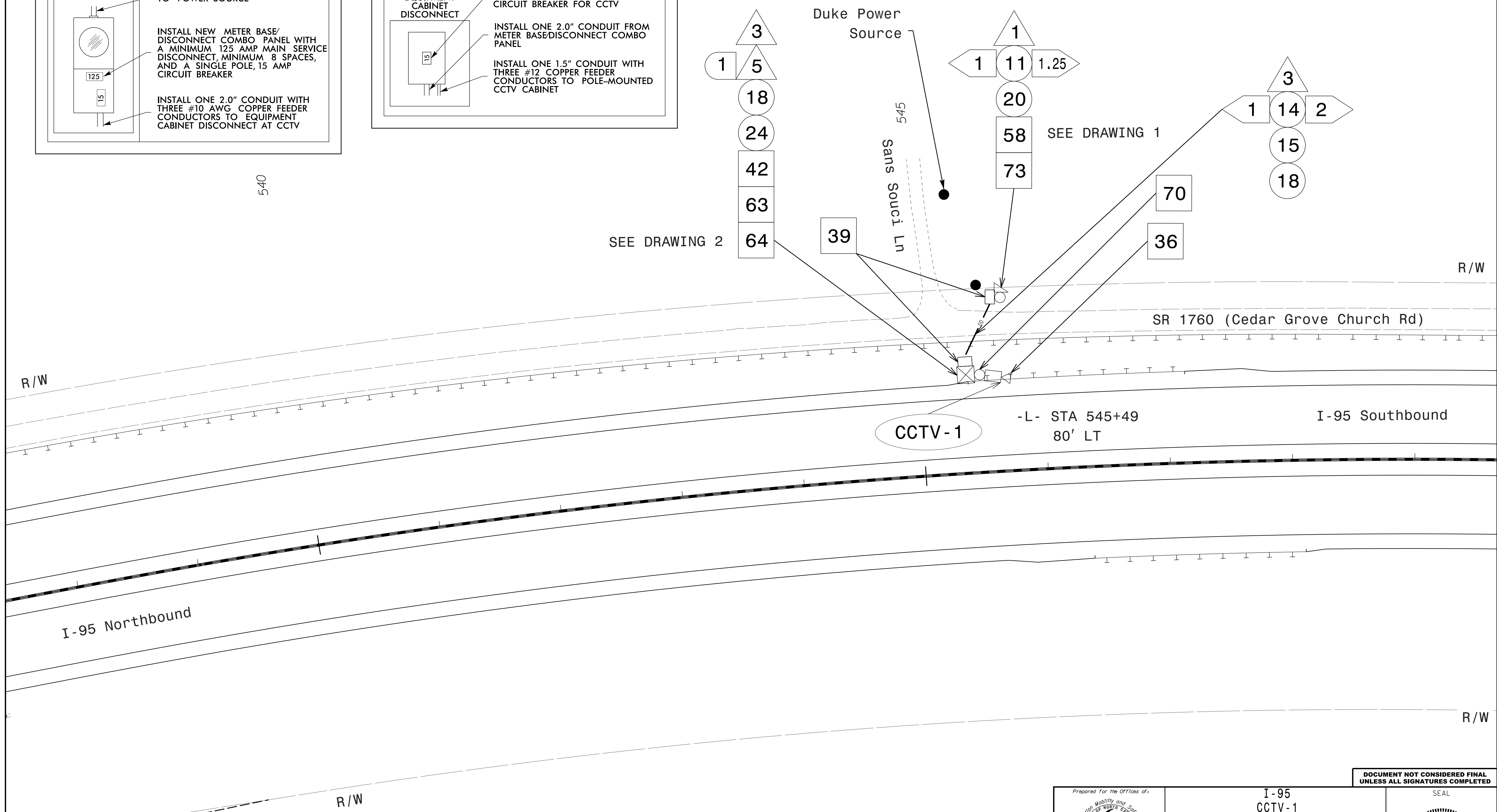


DRAWING #2



CCTV-1 GPS COORDINATES

34.79260° N
78.99443° W



- NOTES:**
1. POWER COMPANY CONTACT - DUKE ENERGY - ERIC CHAVIS (910) 506-6531.
 2. REFER TO SHEET 3B-4 FOR GUARDRAIL INFORMATION.
 3. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 4. CONTACT DIVISION 6 TRAFFIC ENGINEER FRANK D. WEST, JR. AT (910) 364-0606 TO CONFIRM THE LOCATION OF THE CCTV/DMS.
 5. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE PROPOSED LOCATION OF THE CCTV CAMERA OR DMS HAVE BEEN CONFIRMED BY THE DIVISION TRAFFIC ENGINEER.
 6. MOUNT THE CCTV CAMERA 45 FEET ABOVE GRADE.
 7. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 8. INSTALL CCTV POLE A MINIMUM OF 8 FEET BEHIND GUARDRAIL.

Prepared For the Offices of:

RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
(919) 926-4100

I-95 CCTV-1 (Mile-Marker 30)

Division 6 Robeson County Lumberton

PLAN DATE: March 2022 REVIEWED BY: S.G. Haynie

PREPARED BY: O. Drobny REVIEWED BY: J. S. Cole

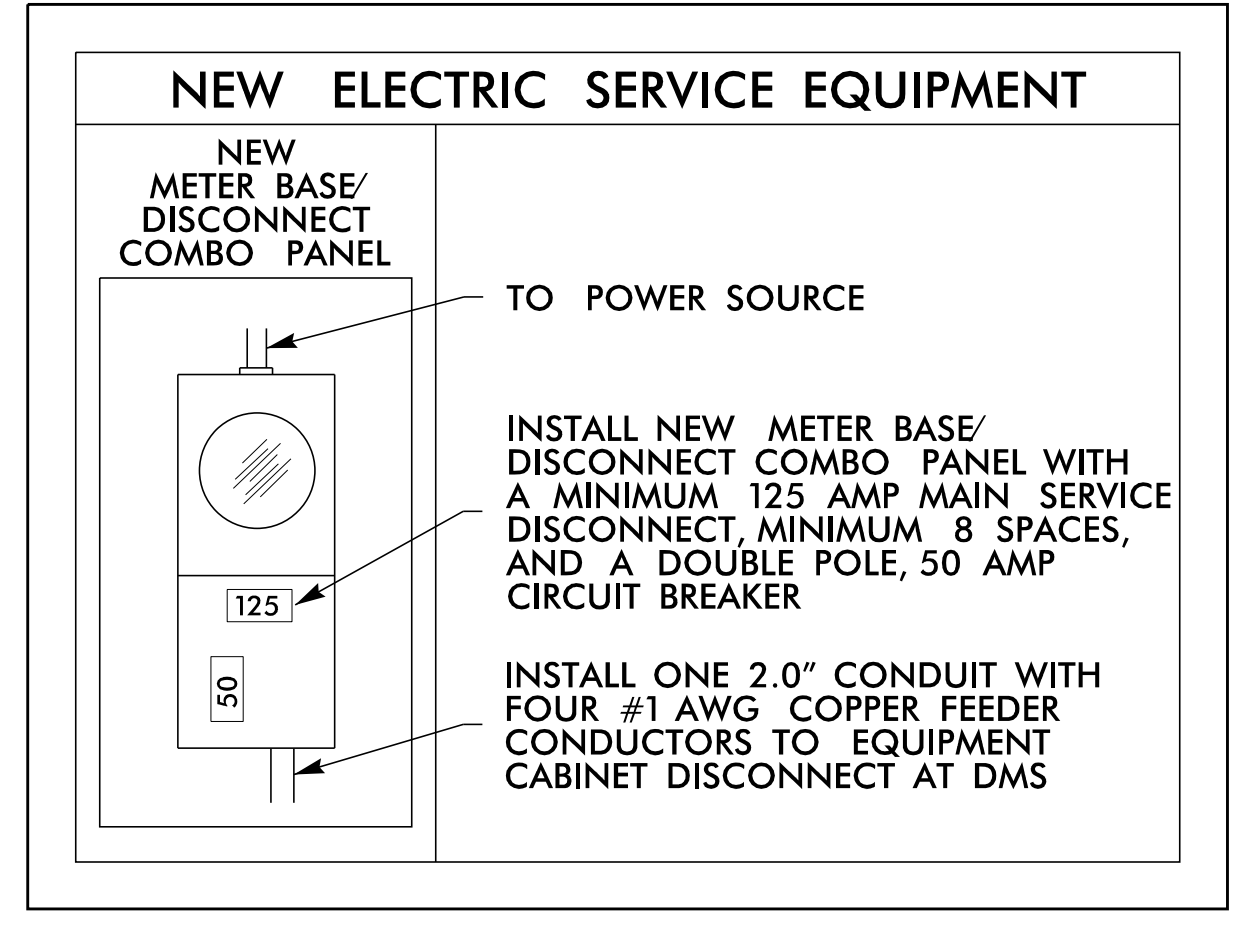
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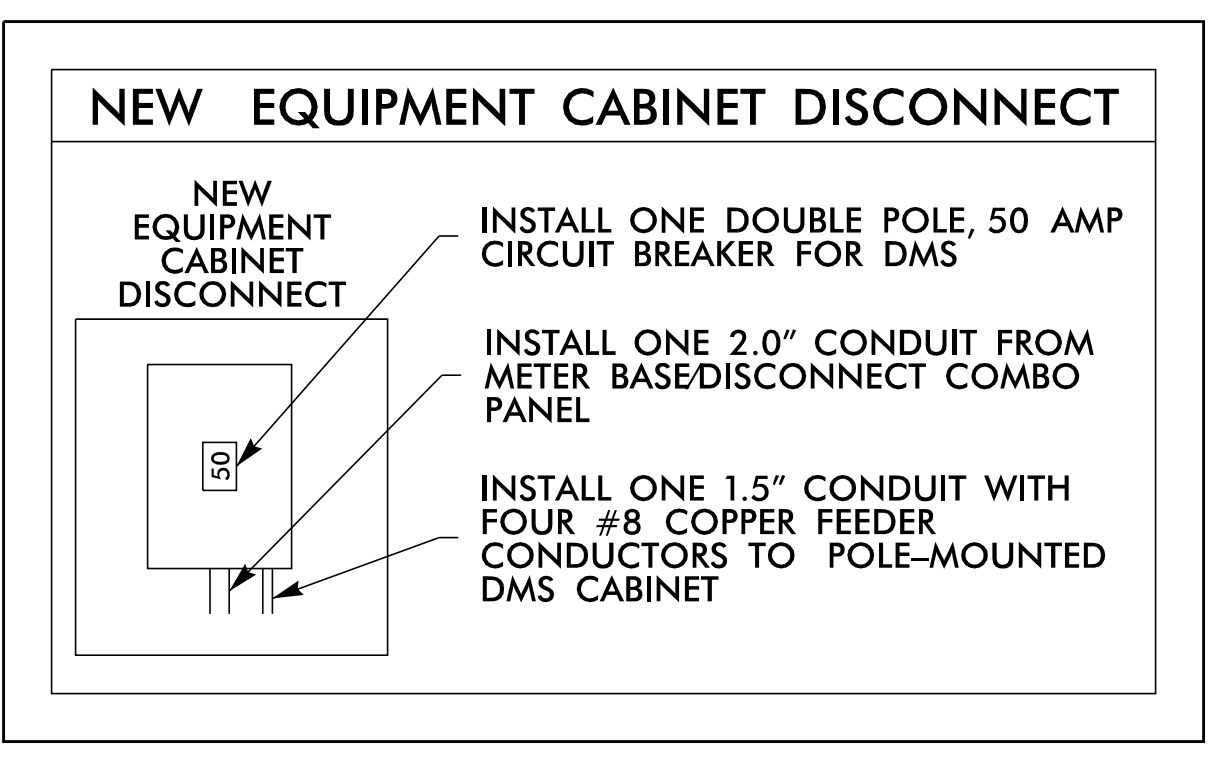
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 029531
STEVEN G. HAYNIE
3/18/2022
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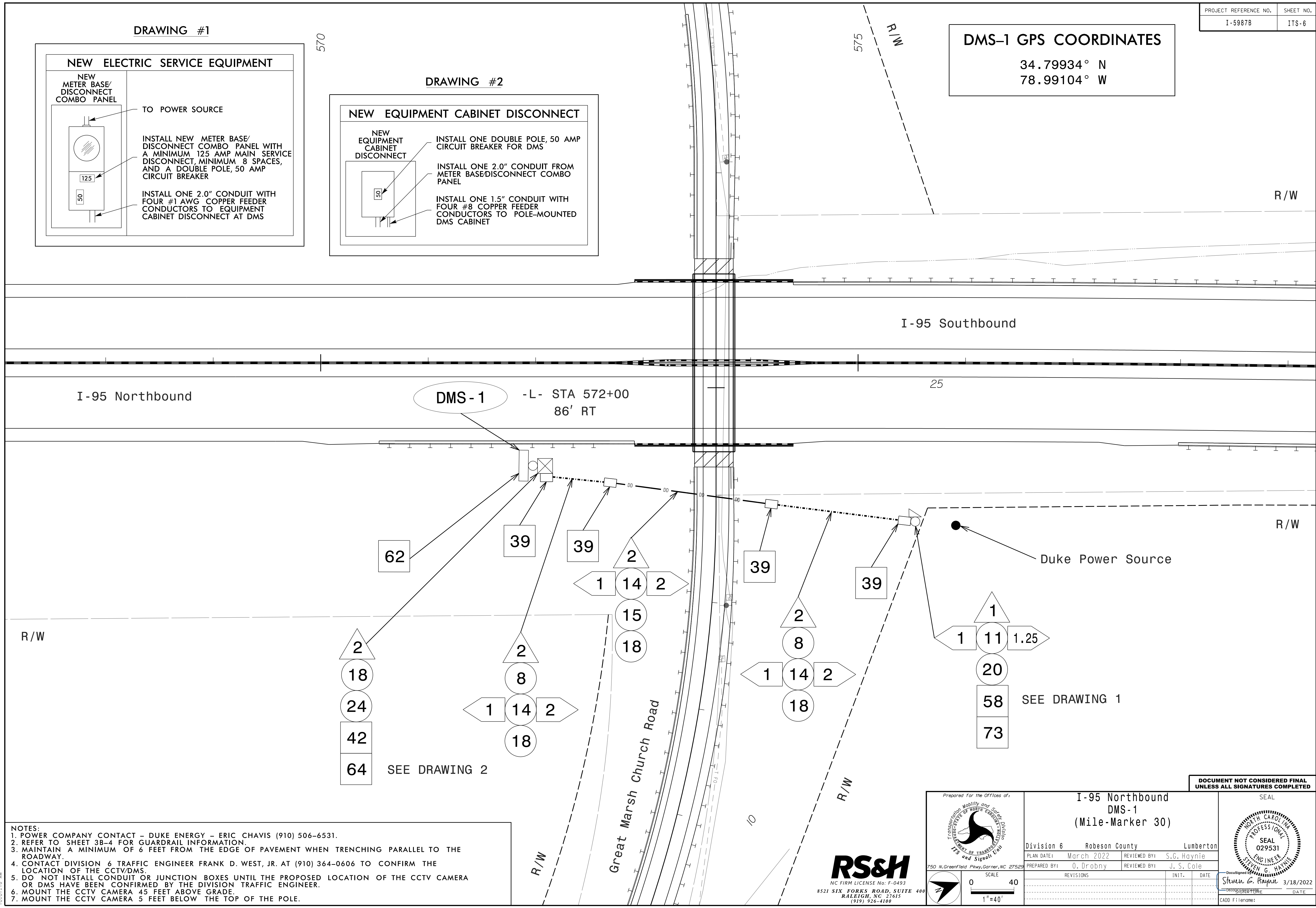


DRAWING #2



DMS-1 GPS COORDINATES

34.79934° N
78.99104° W



- NOTES:
1. POWER COMPANY CONTACT - DUKE ENERGY - ERIC CHAVIS (910) 506-6531.
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Prepared for the Offices of:

RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
(919) 926-4100

I-95 Northbound DMS-1 (Mile-Marker 30)

Division 6 Robeson County Lumberton

PLAN DATE: March 2022 REVIEWED BY: S.G. Haynie

PREPARED BY: O. Drobny REVIEWED BY: J. S. Cole

REVISIONS INIT. DATE

SCALE: 1"=40'

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEVEN G. HAYNIE

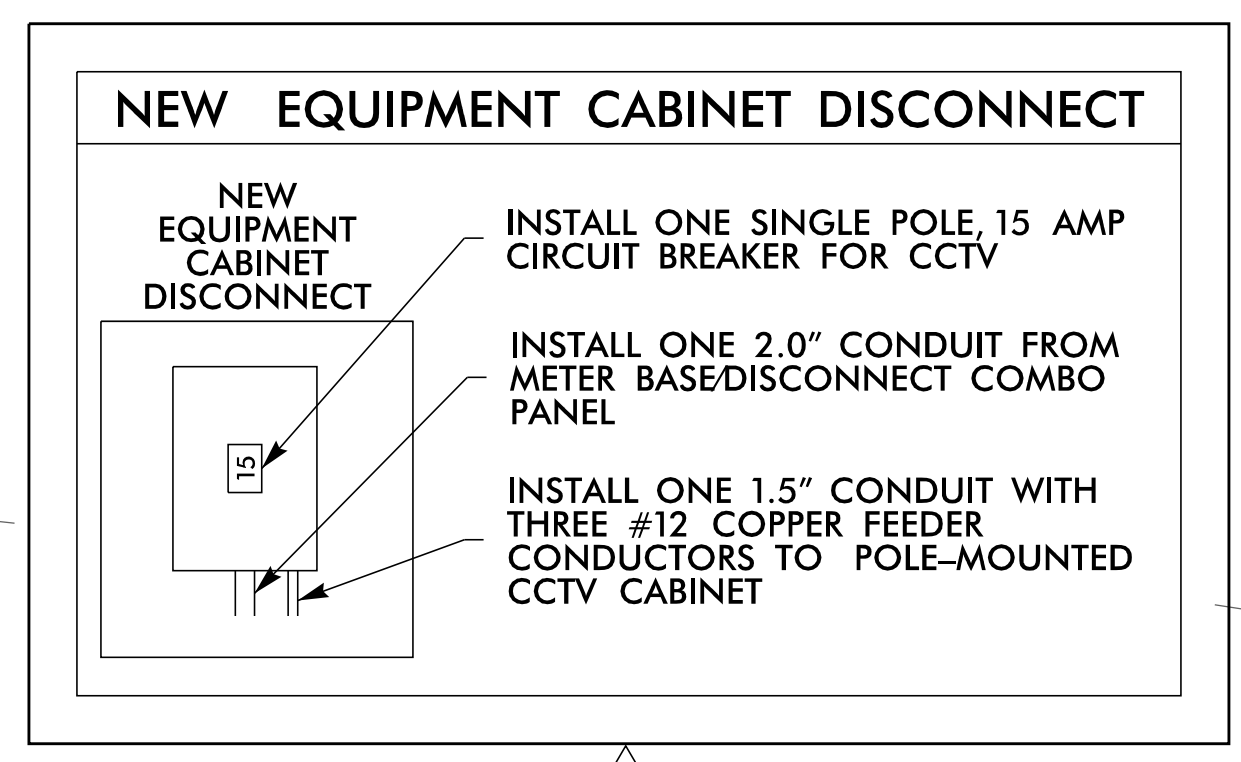
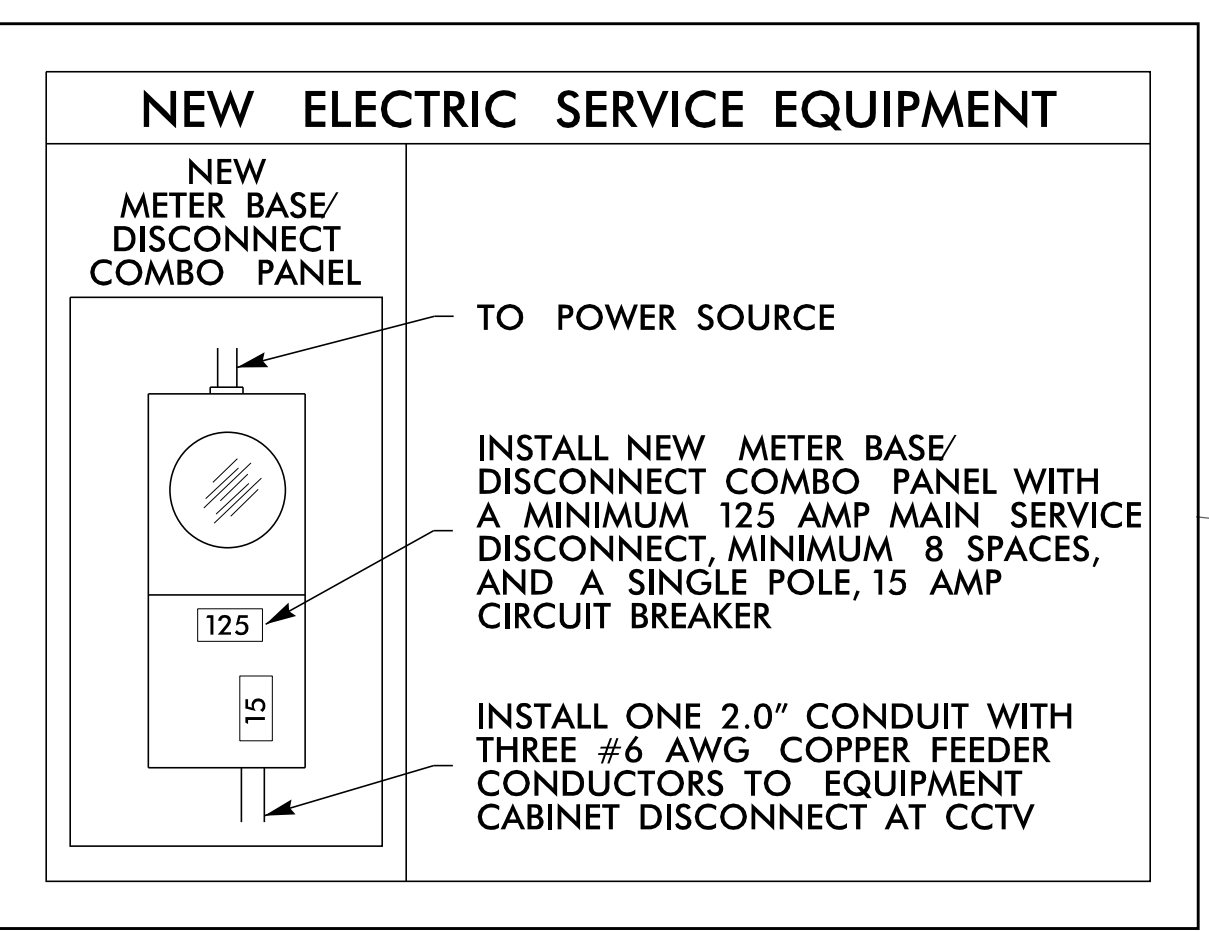
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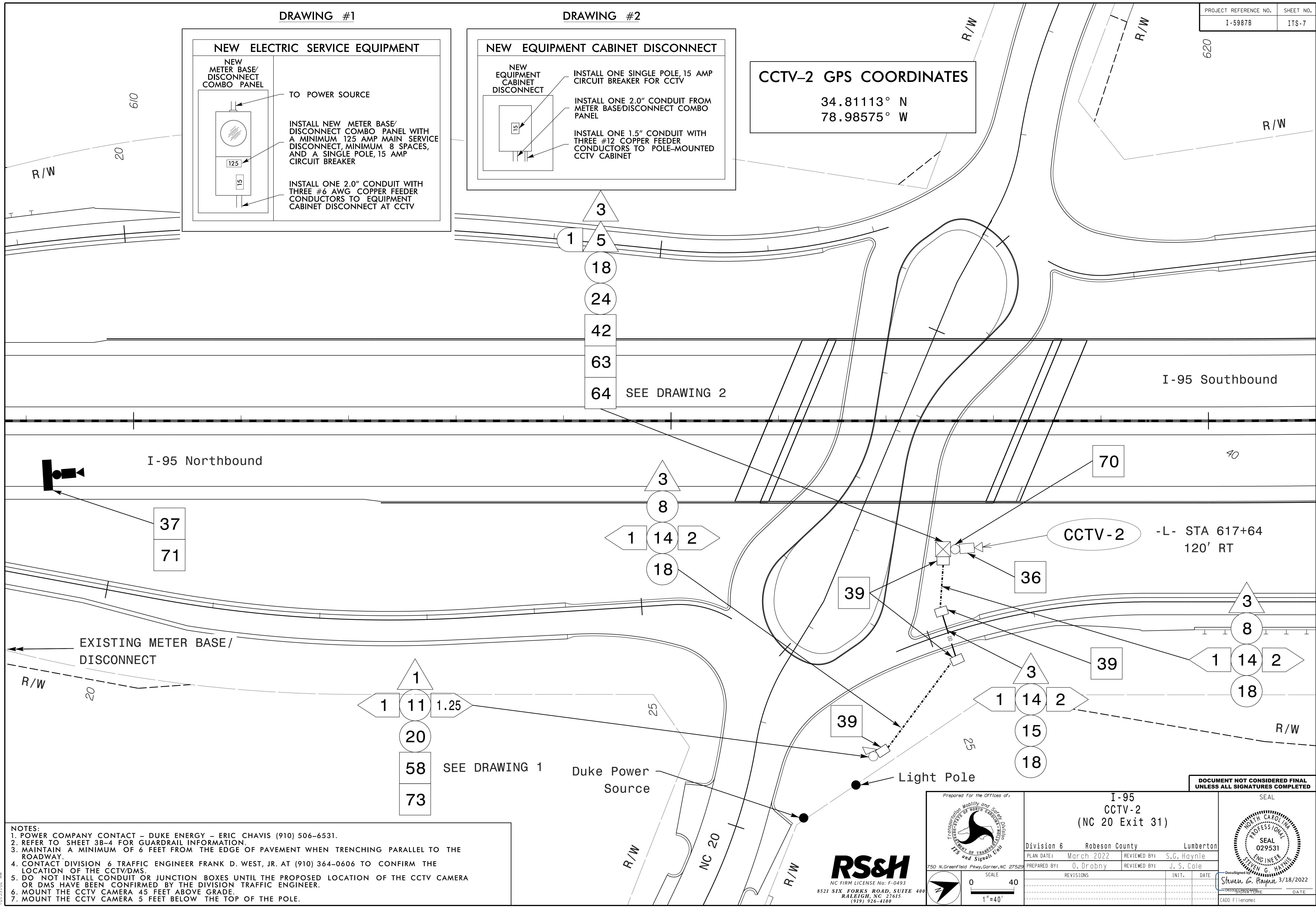
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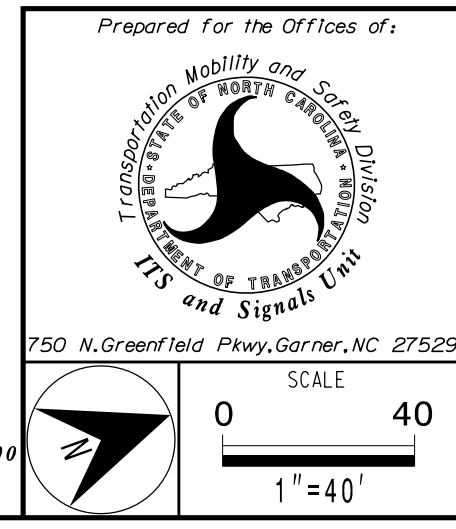


CCTV-2 GPS COORDINATES

34.81113° N
78.98575° W



- NOTES:**
1. POWER COMPANY CONTACT - DUKE ENERGY - ERIC CHAVIS (910) 506-6531.
 2. REFER TO SHEET 3B-4 FOR GUARDRAIL INFORMATION.
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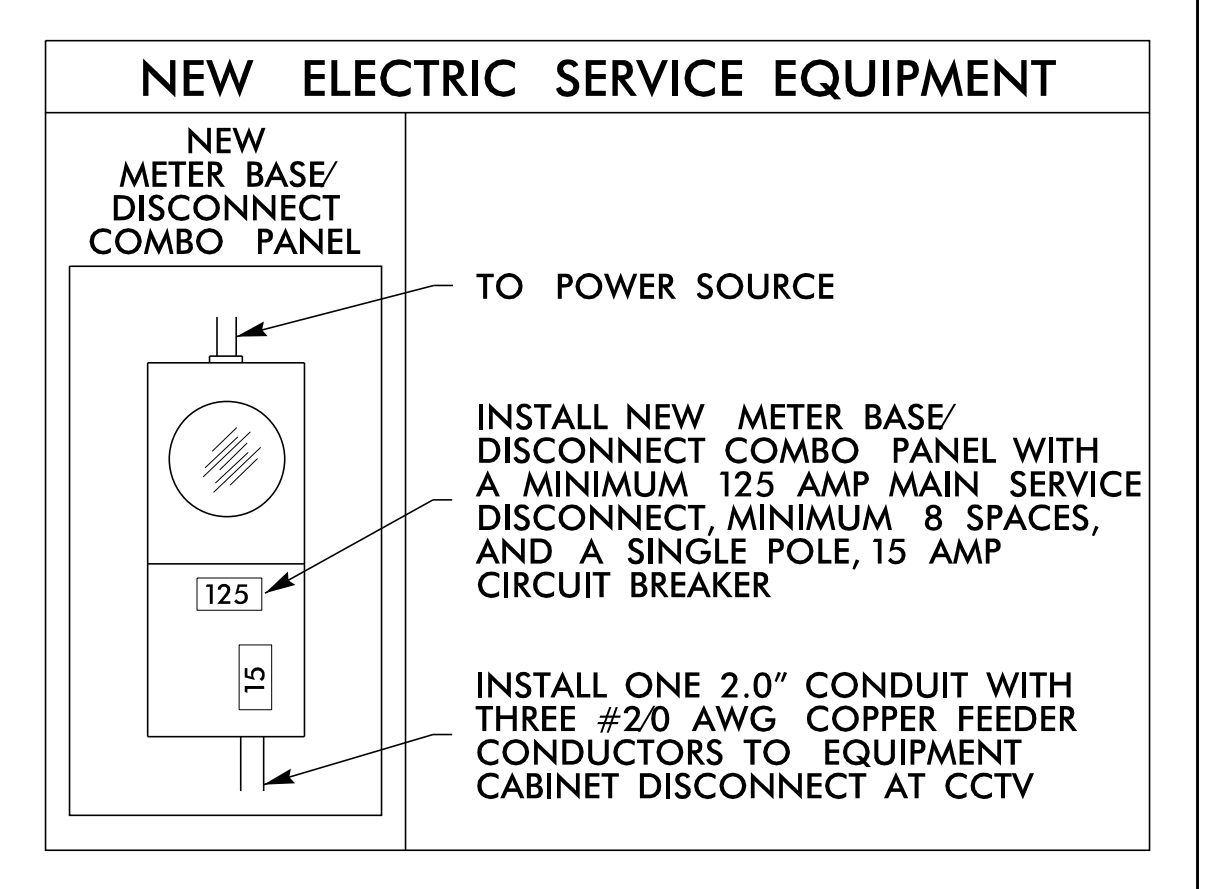


I-95 CCTV-2 (NC 20 Exit 31)		SEAL
Division 6	Robeson County	Lumberton
PLAN DATE: March 2022	REVIEWED BY: S.G. Haynie	
PREPARED BY: O. Drobny	REVIEWED BY: J. S. Cole	
REVISIONS	INIT.	DATE
DocuSigned by: Steven G. Haynie 3/18/2022		
CADD File name:		

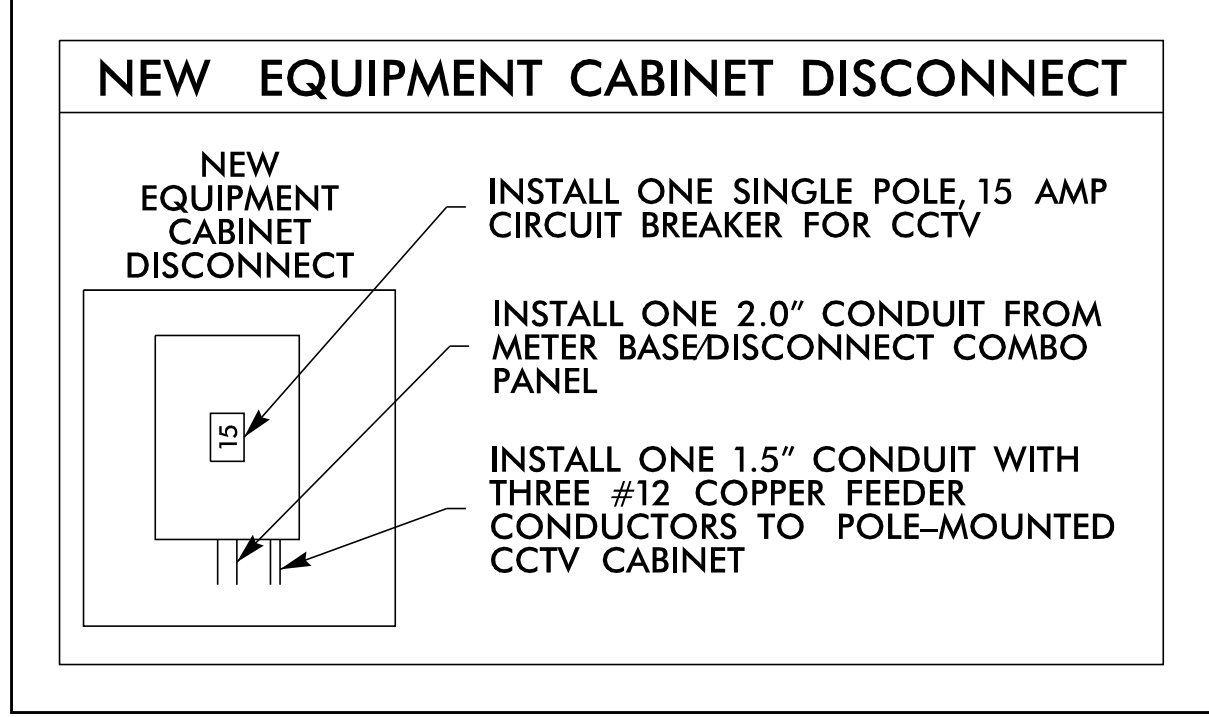
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UNLESS ALL SIGNATURES COMPLETED

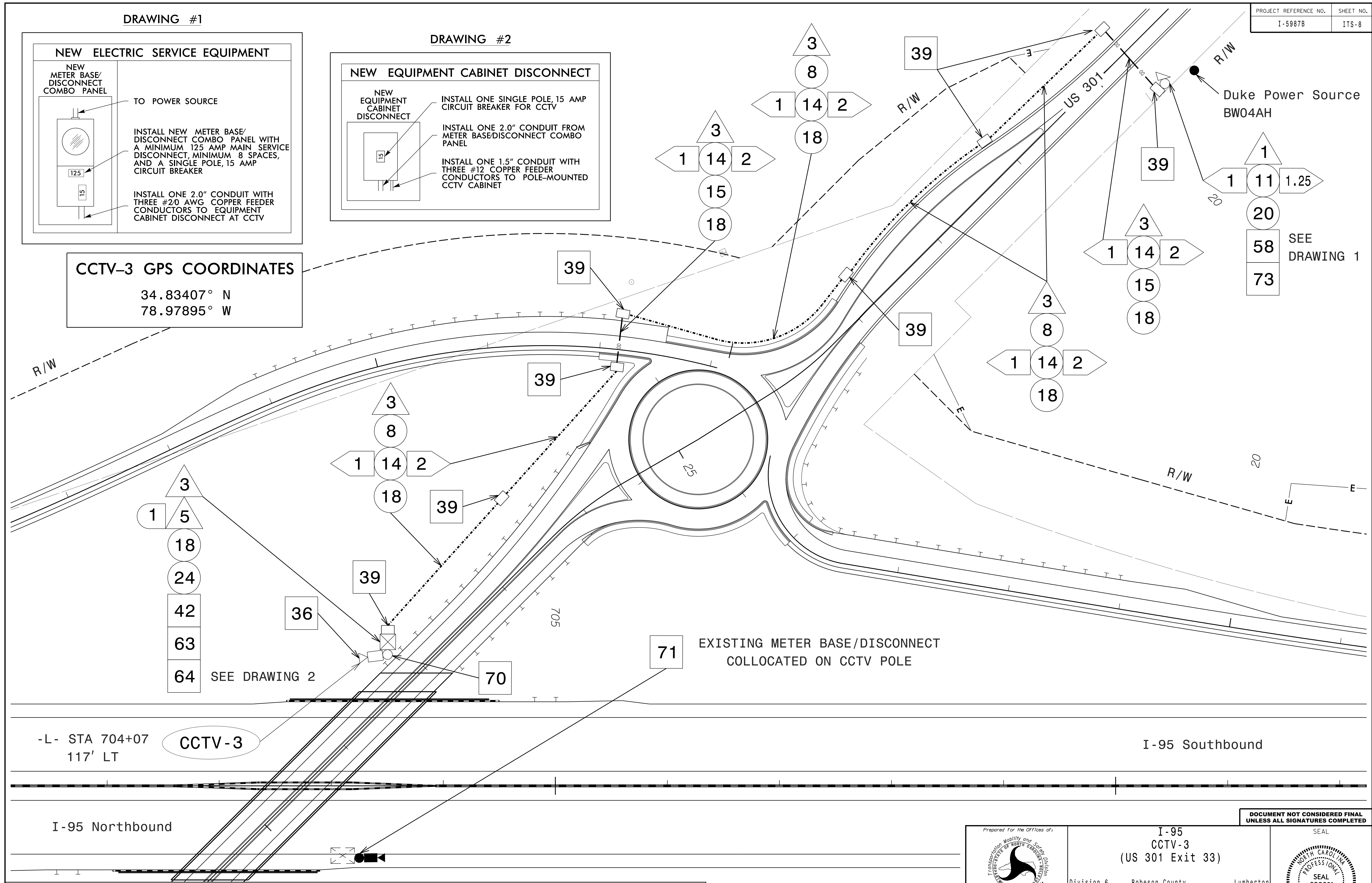
DRAWING #1



DRAWING #2



CCTV-3 GPS COORDINATES
 34.83407° N
 78.97895° W



Duke Power Source
 BW04AH

SEE
 DRAWING 1

-L- STA 704+07
 117' LT

CCTV-3

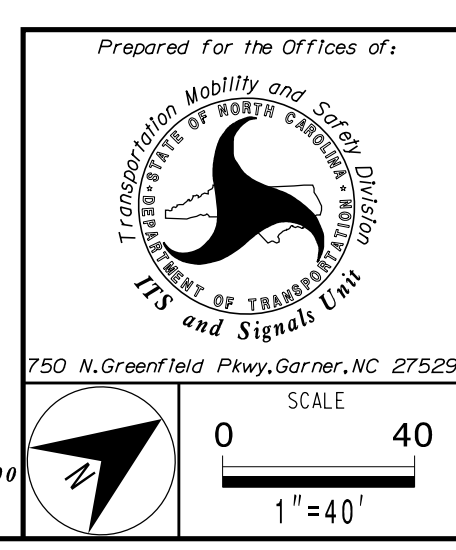
I-95 Southbound

I-95 Northbound

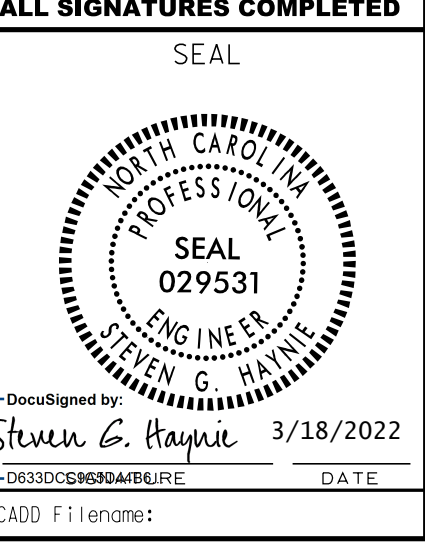
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 COLLOCATED ON CCTV POLE

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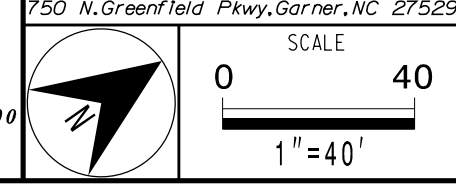
- NOTES:**
1. POWER COMPANY CONTACT - DUKE ENERGY - ERIC CHAVIS (910) 506-6531.
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I-95 CCTV-3 (US 301 Exit 33)	
Division 6	Robeson County
Prepared By: O. Drobny	Reviewed By: J. S. Cole
Plan Date: March 2022	Reviewed By: S.G. Haynie
REVISIONS	INIT. DATE

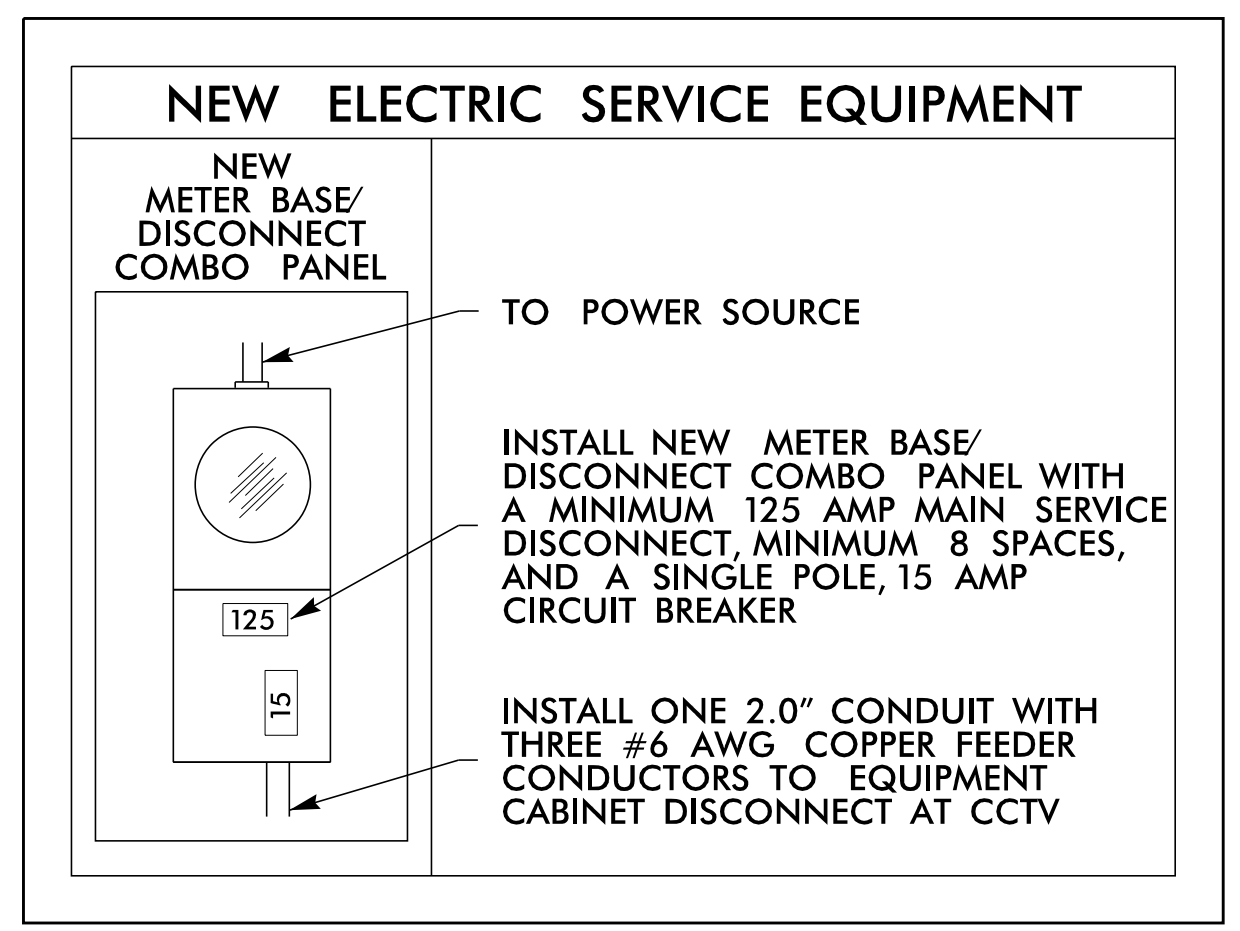


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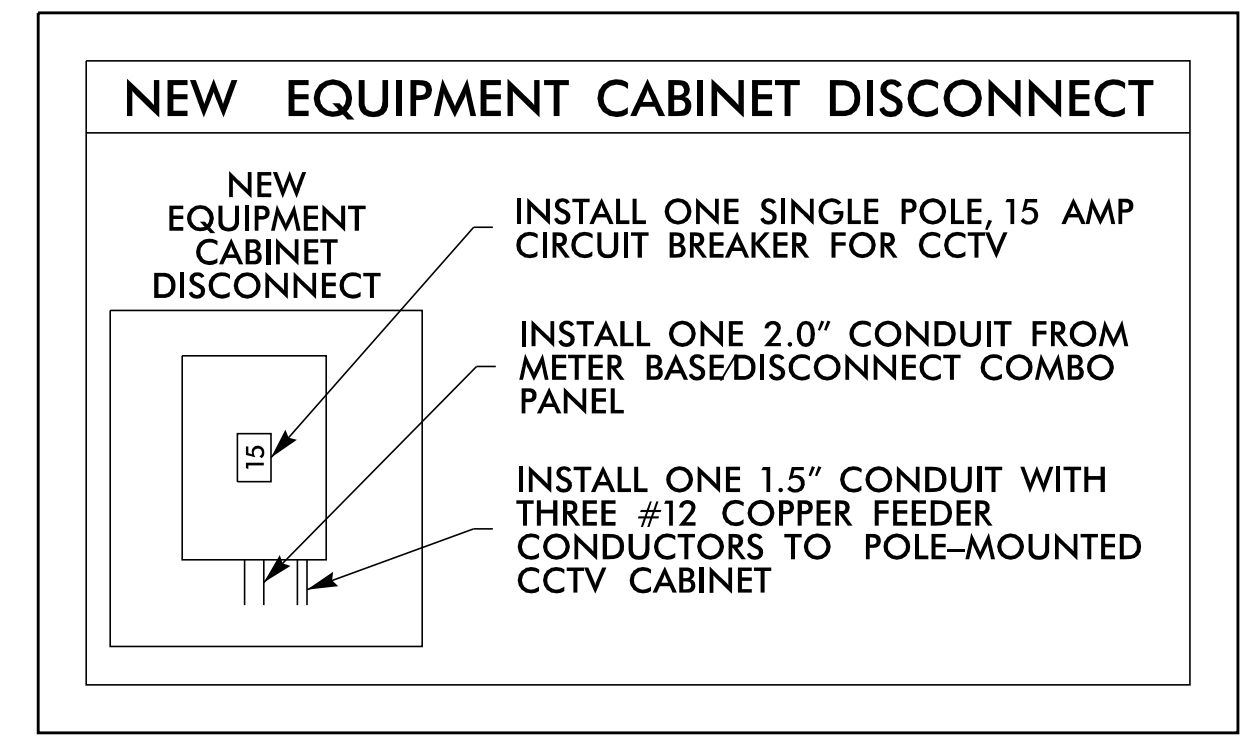


Designed by: Steven G. Haynie
 Date: 3/18/2022
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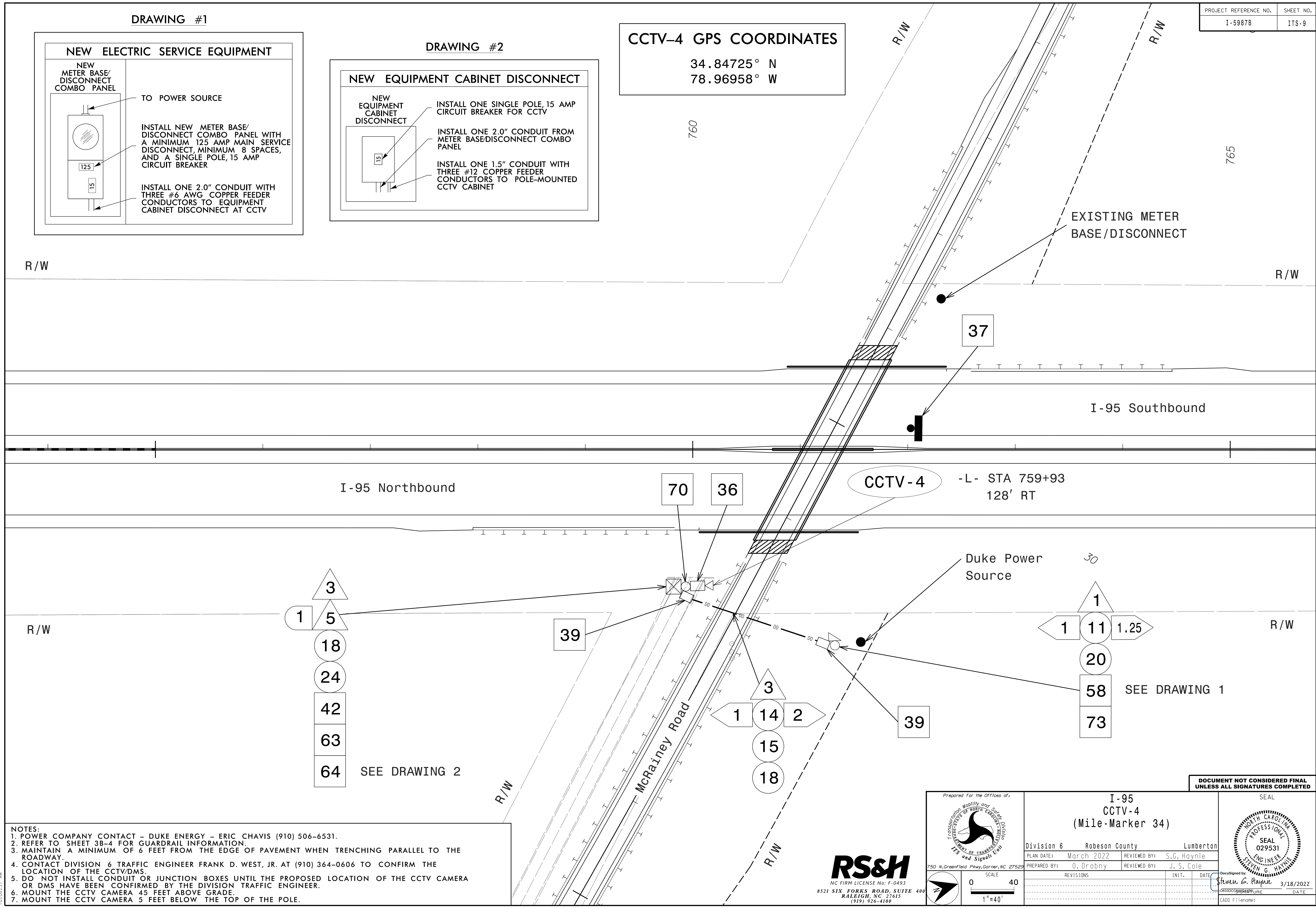


DRAWING #2



CCTV-4 GPS COORDINATES

34.84725° N
78.96958° W



NOTES:

1. POWER COMPANY CONTACT - DUKE ENERGY - ERIC CHAVIS (910) 506-6531.
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
(919) 926-4100

Prepared For the Offices of:

750 N. Greenfield Parkway, Garner, NC 27529

I-95
CCTV-4
(Mile-Marker 34)

Division 6 Robeson County Lumberton

PLAN DATE: March 2022 REVIEWED BY: S.G. Haynie

PREPARED BY: O. Drobny REVIEWED BY: J. S. Cole

REVISIONS	INIT.	DATE

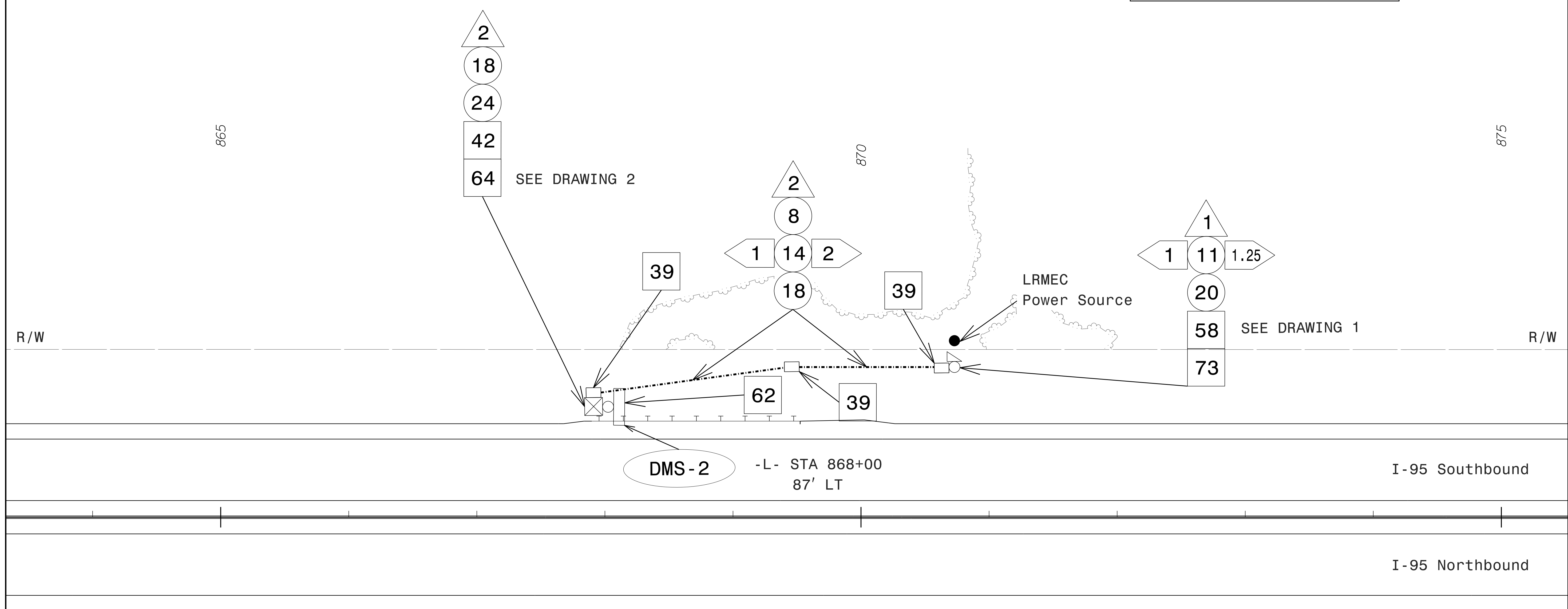
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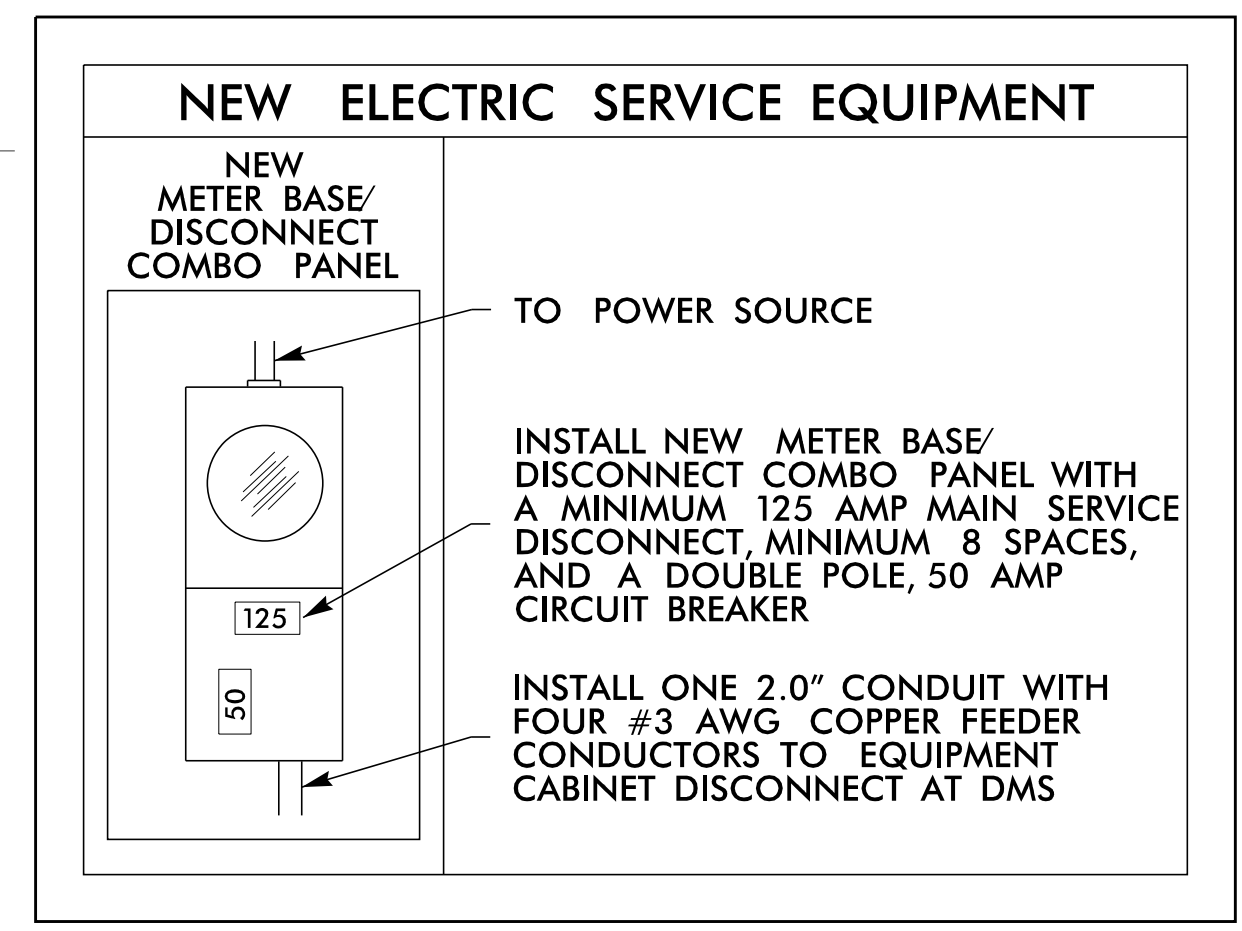
Steven G. Haynie
Professional Engineer
3/18/2022

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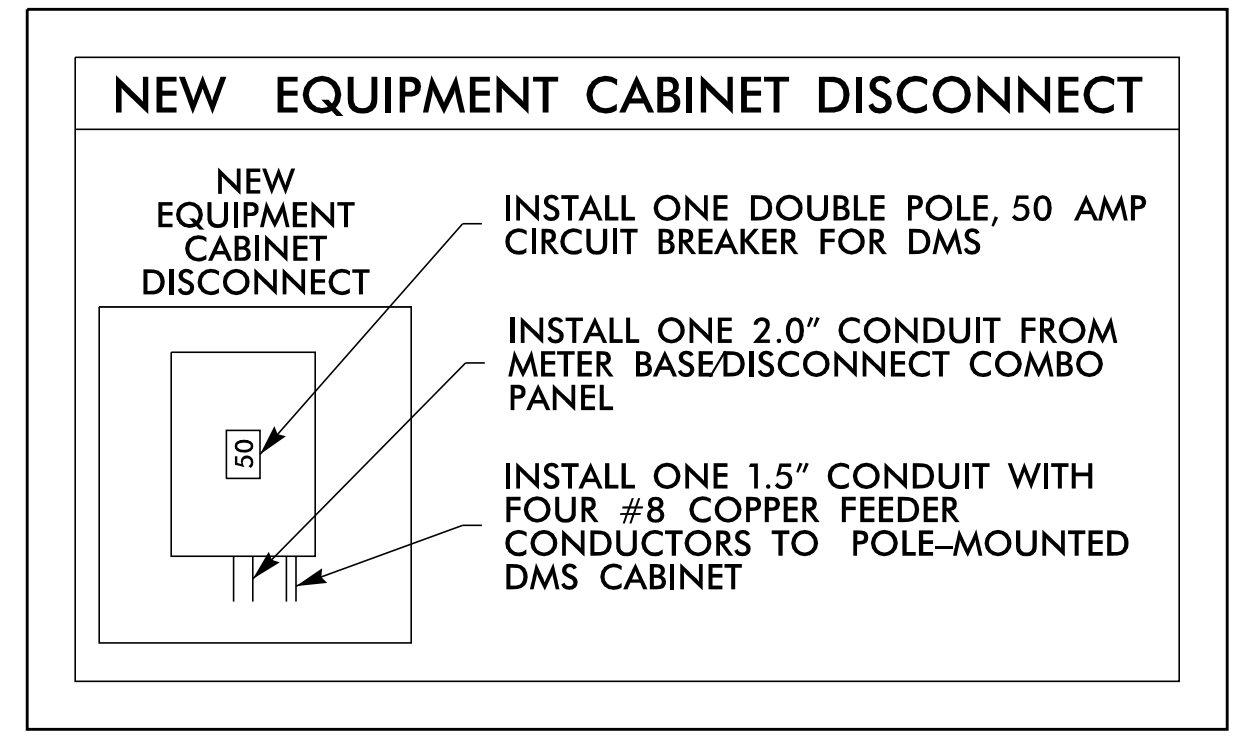
DMS-2 GPS COORDINATES
34.87632° N
78.96285° W



DRAWING #1



DRAWING #2



- NOTES:
1. POWER COMPANY CONTACT - LUMBEE RIVER EMC - KEN ROWELL (910) 843-7953
 2. REFER TO SHEET 3B-4 FOR GUARDRAIL INFORMATION.
 3. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
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Prepared For the Offices of:
Transportation Mobility and Safety Division
Department of Transportation
STATE OF NORTH CAROLINA
ITS and Signals Unit

I-95 Southbound
DMS-2
(Mile-Marker 36)

Division 6 Robeson County Lumberton

PLAN DATE: March 2022 REVIEWED BY: S.G. Haynie
PREPARED BY: O. Drobny REVIEWED BY: J. S. Cole

SCALE: 1"=40'

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEVEN G. HAYNIE
029531

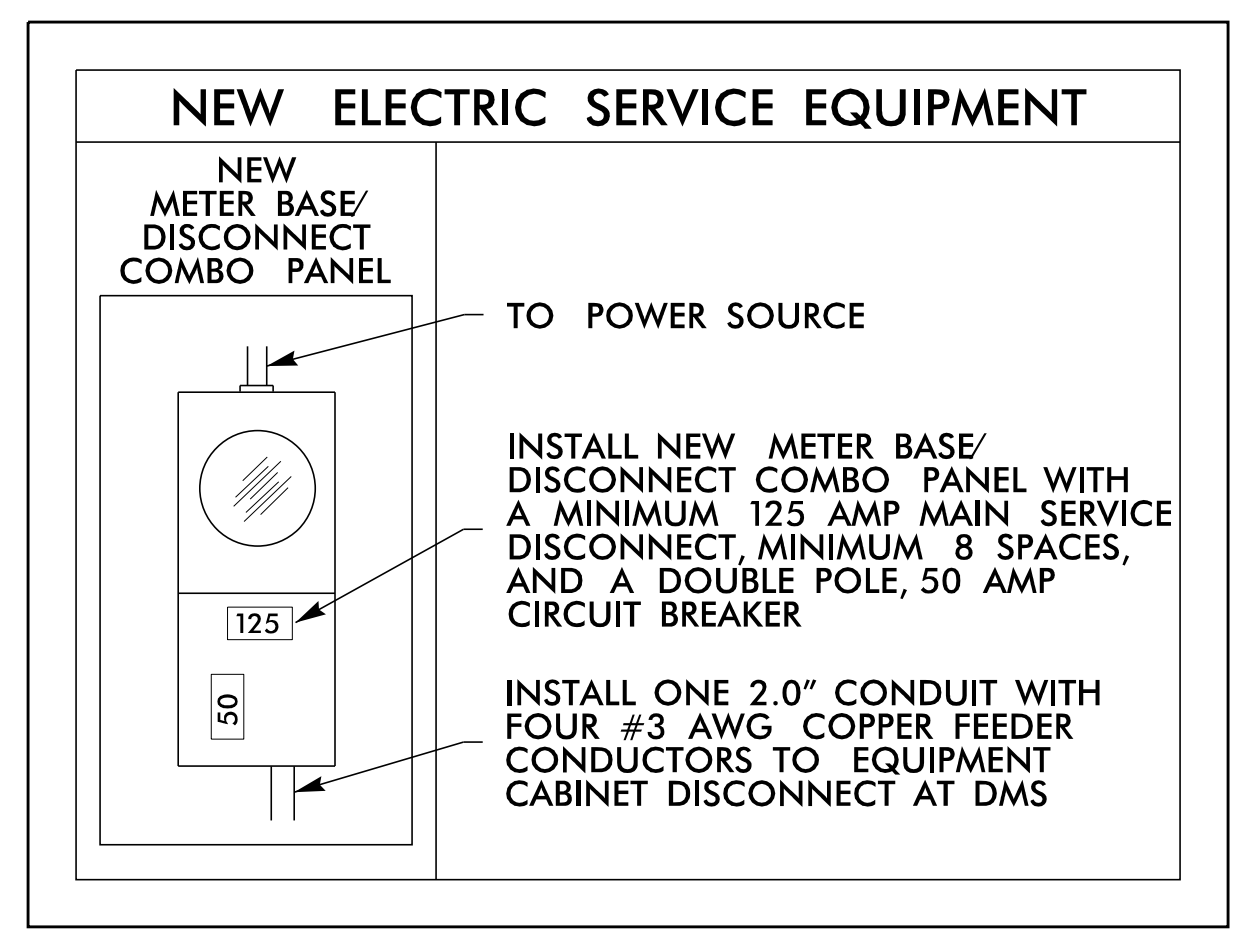
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Steven G. Haynie
3/18/2022

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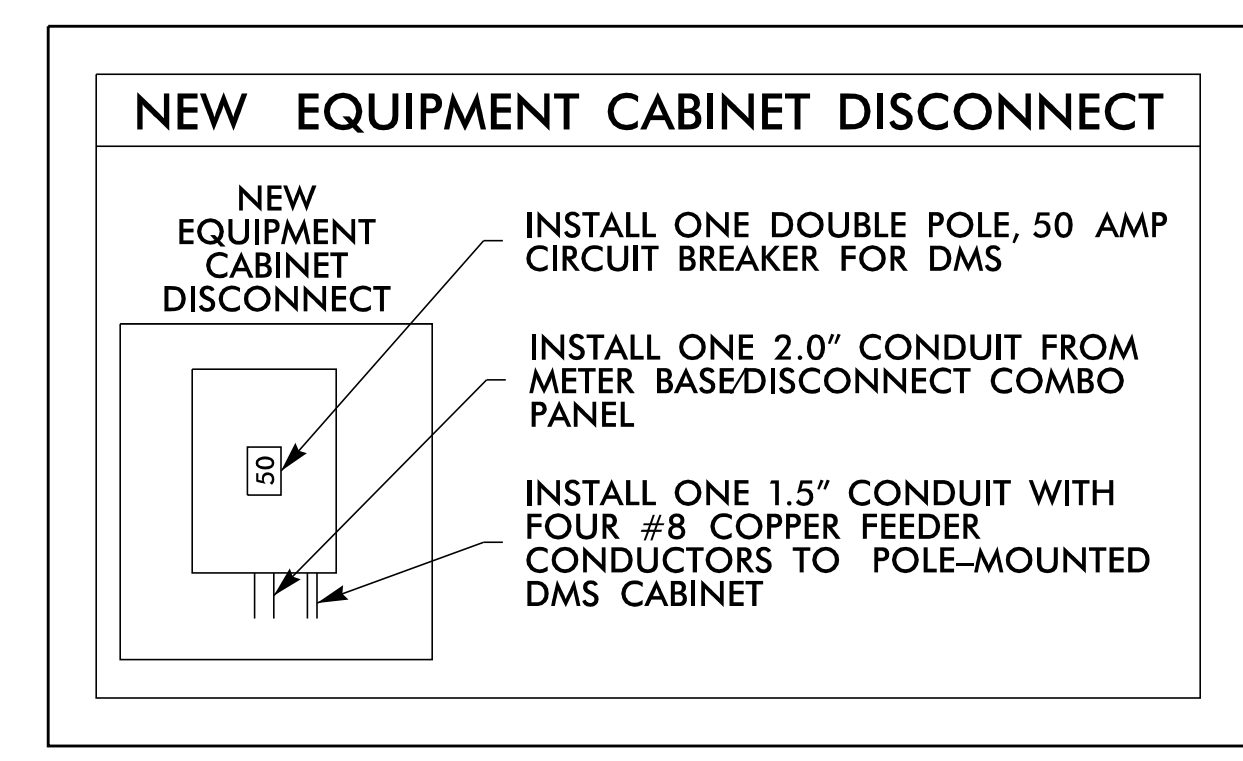


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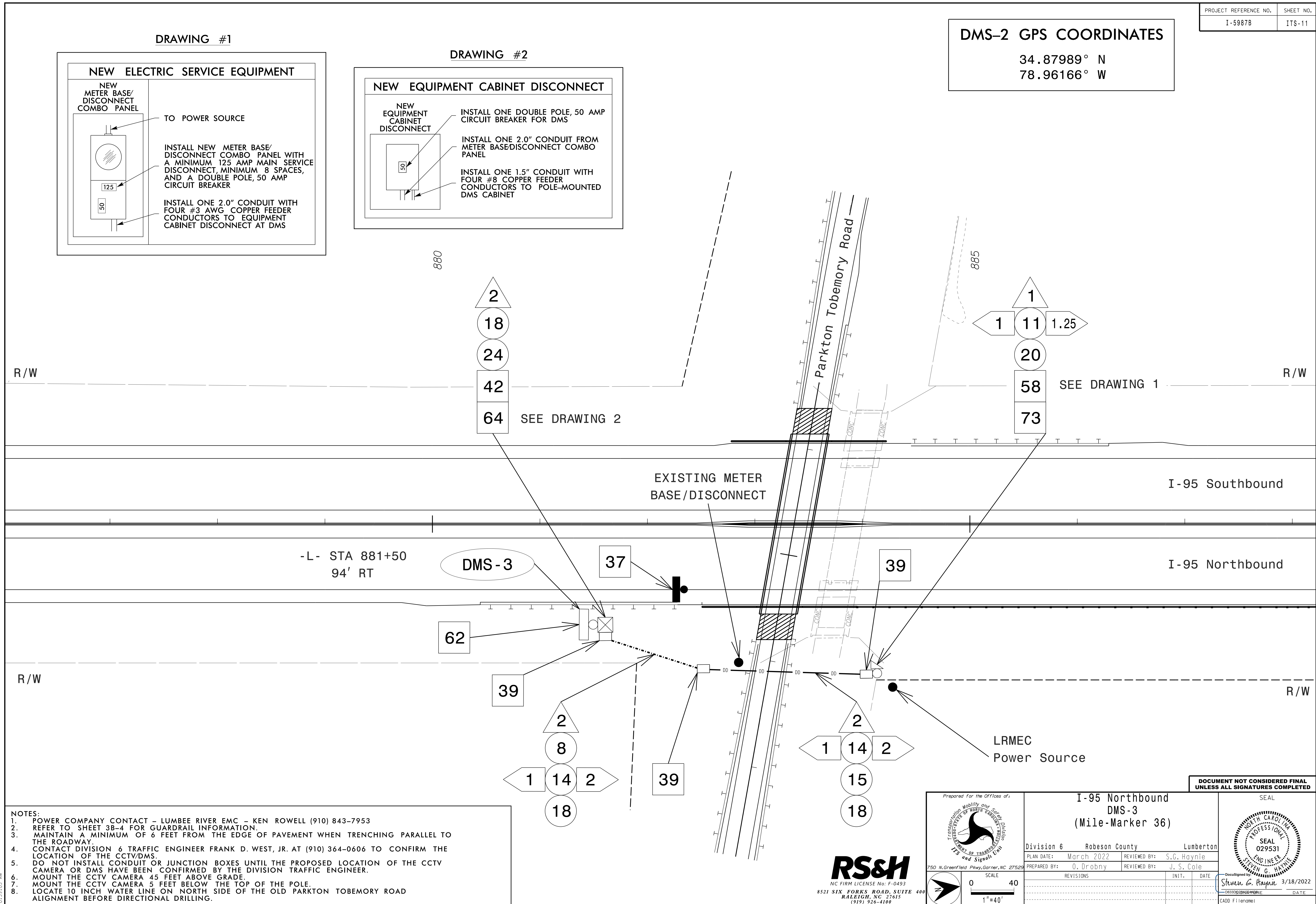
DRAWING #1



DRAWING #2



DMS-2 GPS COORDINATES
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 78.96166° W

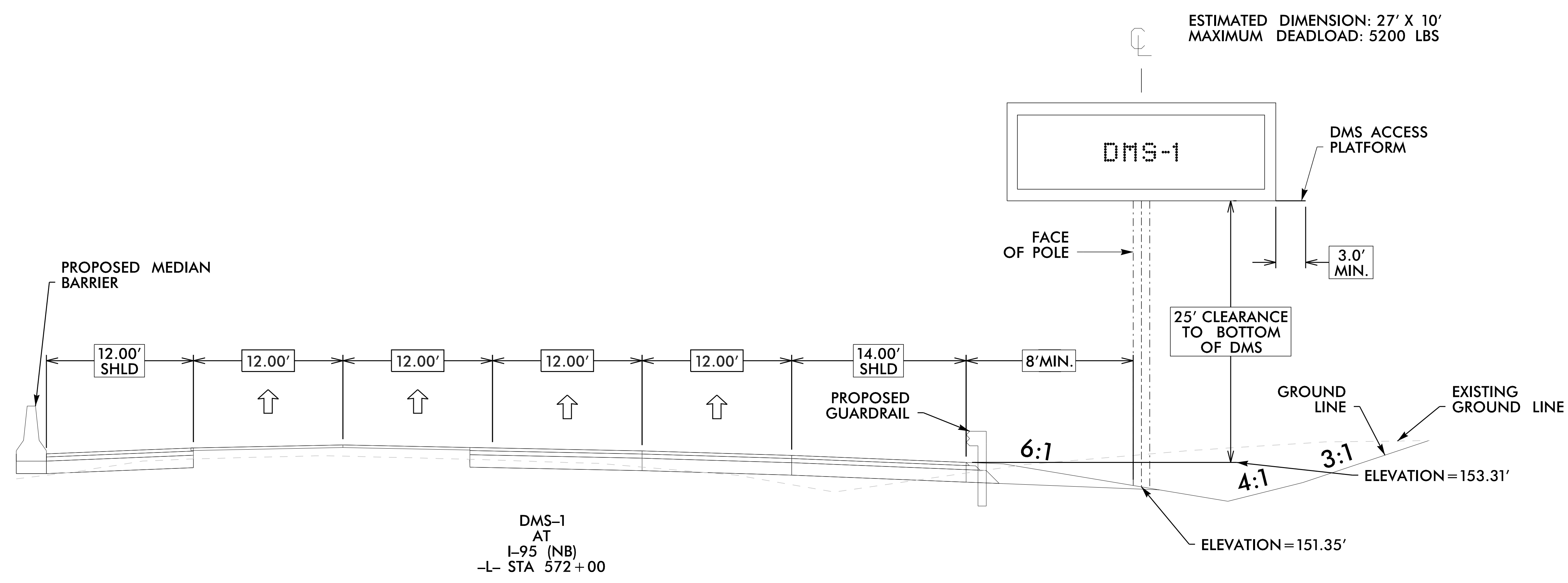


NOTES:
 1. POWER COMPANY CONTACT - LUMBEE RIVER EMC - KEN ROWELL (910) 843-7953
 2. REFER TO SHEET 3B-4 FOR GUARDRAIL INFORMATION.
 3. MAINTAIN A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT WHEN TRENCHING PARALLEL TO THE ROADWAY.
 4. CONTACT DIVISION 6 TRAFFIC ENGINEER FRANK D. WEST, JR. AT (910) 364-0606 TO CONFIRM THE LOCATION OF THE CCTV/DMS.
 5. DO NOT INSTALL CONDUIT OR JUNCTION BOXES UNTIL THE PROPOSED LOCATION OF THE CCTV CAMERA OR DMS HAVE BEEN CONFIRMED BY THE DIVISION TRAFFIC ENGINEER.
 6. MOUNT THE CCTV CAMERA 45 FEET ABOVE GRADE.
 7. MOUNT THE CCTV CAMERA 5 FEET BELOW THE TOP OF THE POLE.
 8. LOCATE 10 INCH WATER LINE ON NORTH SIDE OF THE OLD PARKTON TOBEMORY ROAD ALIGNMENT BEFORE DIRECTIONAL DRILLING.

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 NC FIRM LICENSE No: F-0493 8521 SIX FORKS ROAD, SUITE 400 RALEIGH, NC 27615 (919) 926-4100	Prepared For the Offices of: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ITS and Signals Unit	I-95 Northbound DMS-3 (Mile-Marker 36) Division 6 Robeson County Lumberton PLAN DATE: March 2022 REVIEWED BY: S.G. Haynie PREPARED BY: O. Drobny REVIEWED BY: J. S. Cole	SEAL Steven G. Haynie 3/18/2022 DATE
	SCALE 0 40 1"=40'	REVISIONS INIT. DATE	CADD Filename:

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DMS-1
AT
I-95 (NB)
-L- STA 572+00

NOTES

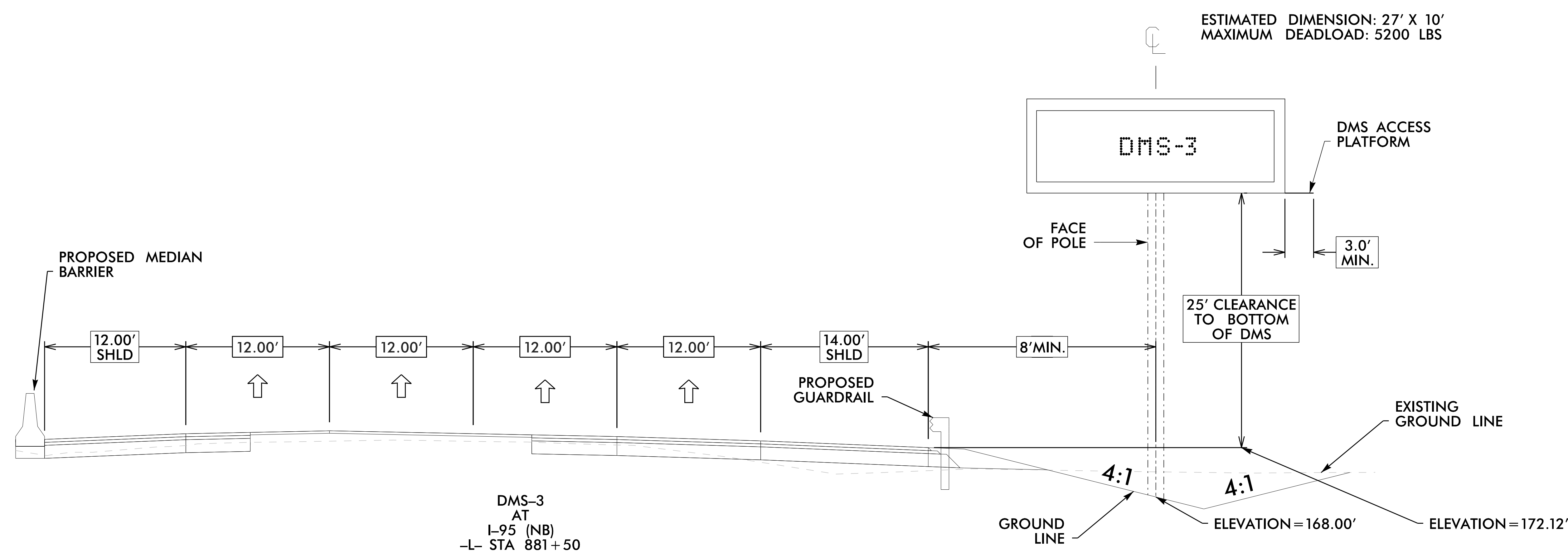
1. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ELEVATION DRAWINGS FOR ENGINEER'S APPROVAL.
2. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
3. ENSURE THAT THE TOP OF THE FOOTING EXTENDS AT LEAST 6 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
4. DESIGN AND CONSTRUCT THE PEDESTAL STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 110 MPH.
5. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.

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Prepared for the Offices of:		I-95 Northbound DMS-1 Elevation (Mile-Marker 30)		SEAL	
		Division 6 Robeson County Lumberton			
PLAN DATE: March 2022	REVIEWED BY: S.G. Haynie	INIT.	DATE	Documented by: <i>Steven G. Haynie</i> 3/18/2022 DATE	
PREPARED BY: O. Drobny	REVIEWED BY: J. S. Cole	REVISIONS		CADD File name: 20220318_ITS-12_03.ctb	



DMS-3
AT
I-95 (NB)
-L- STA 881+50

NOTES

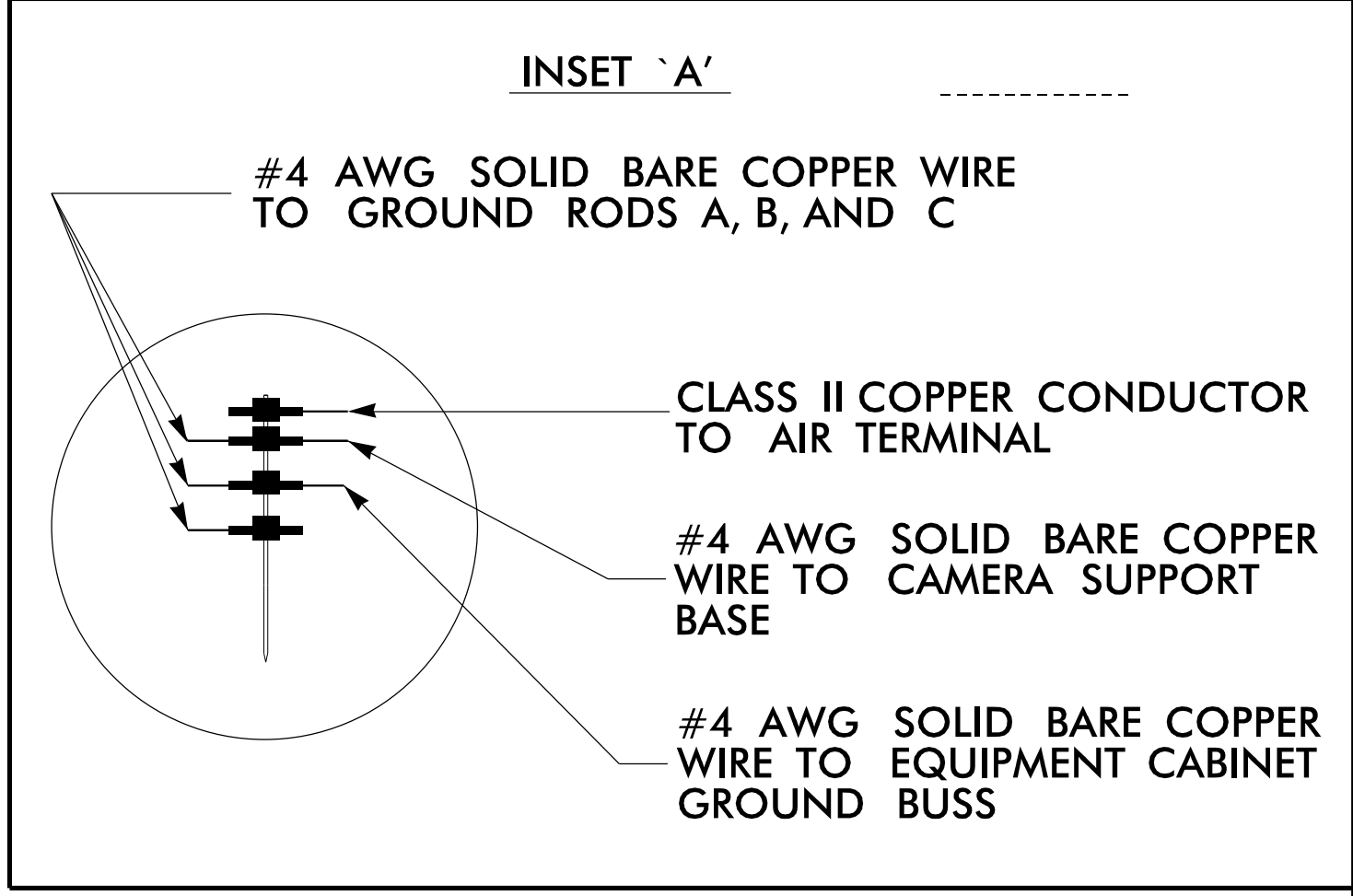
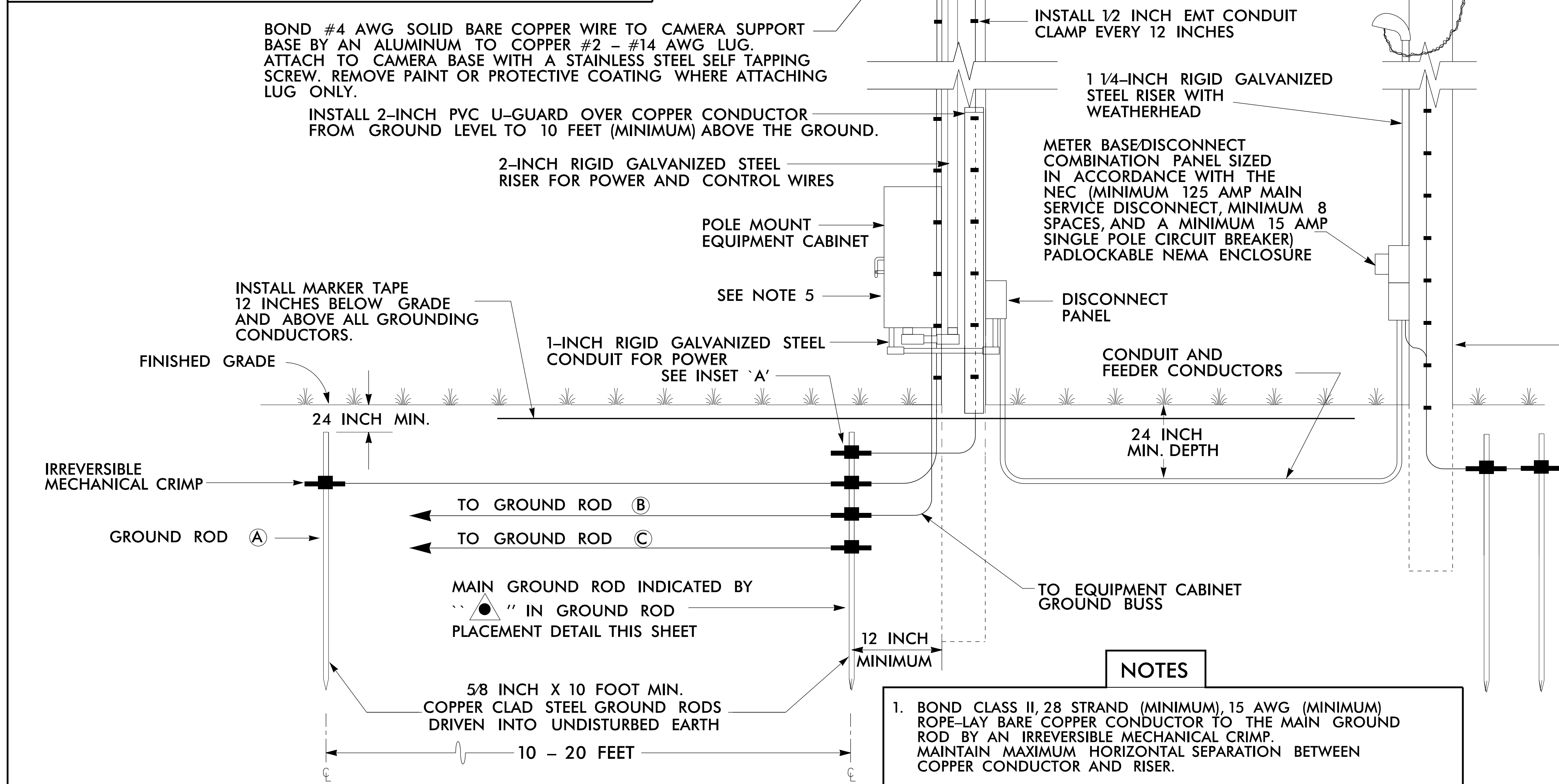
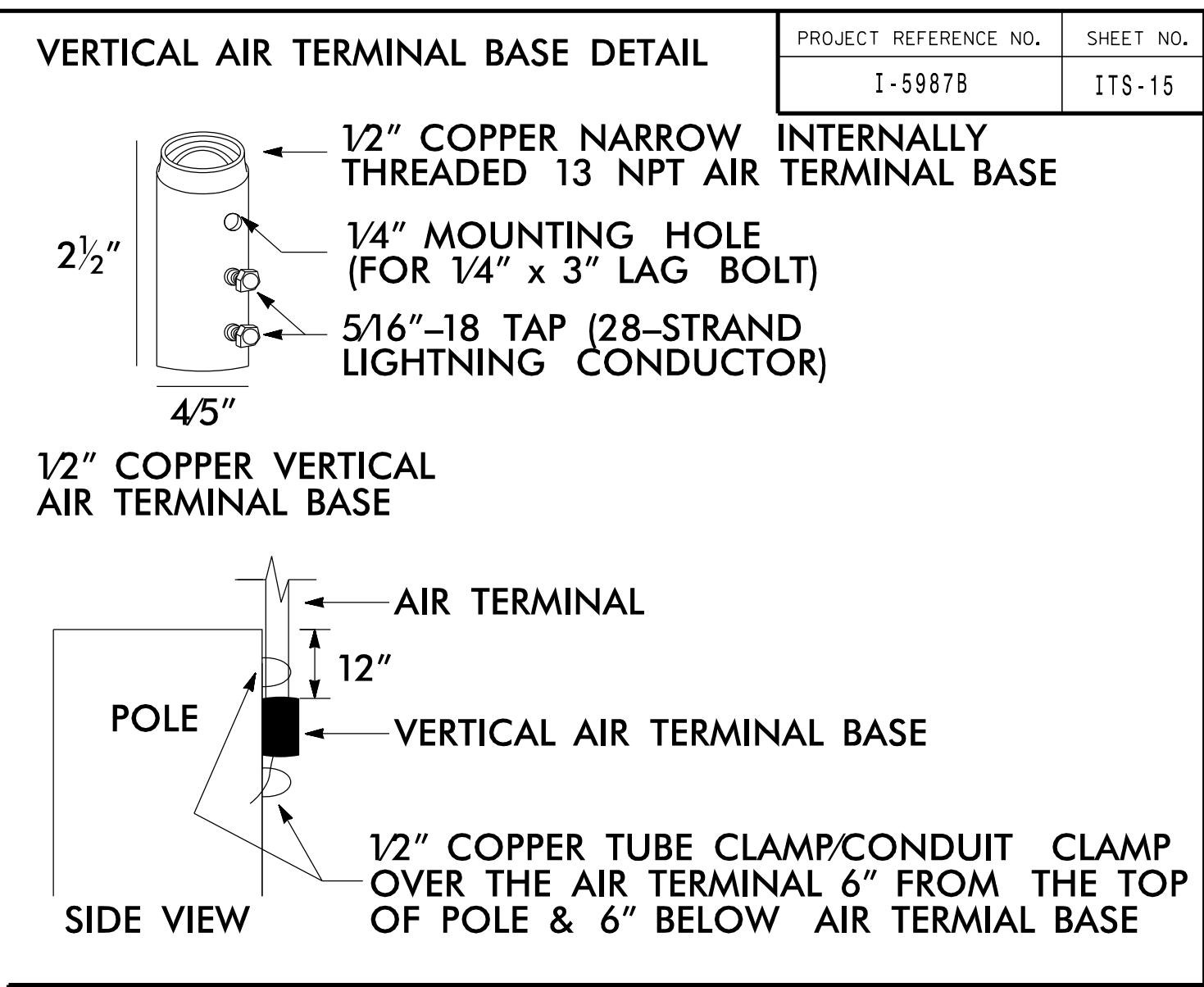
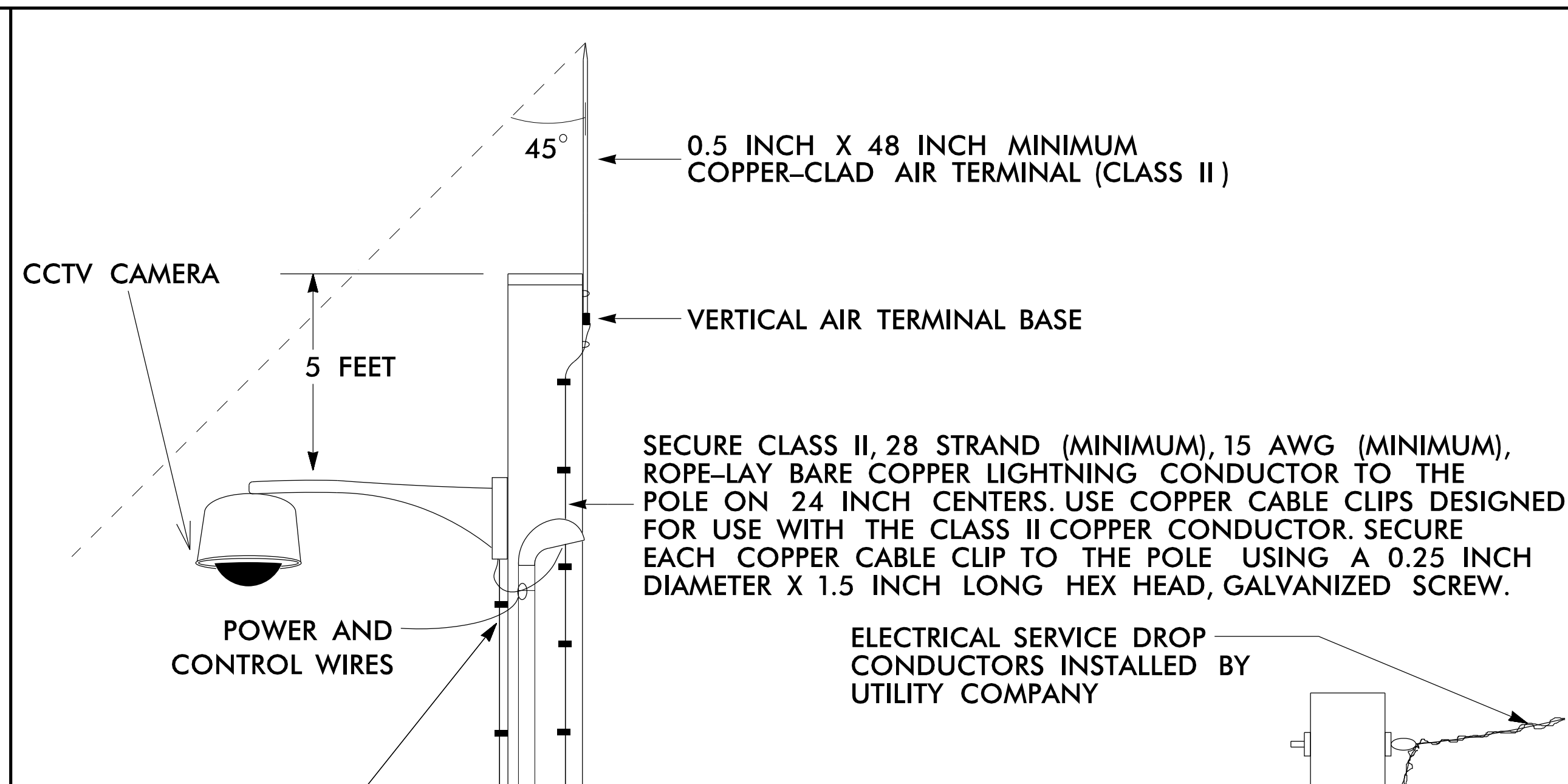
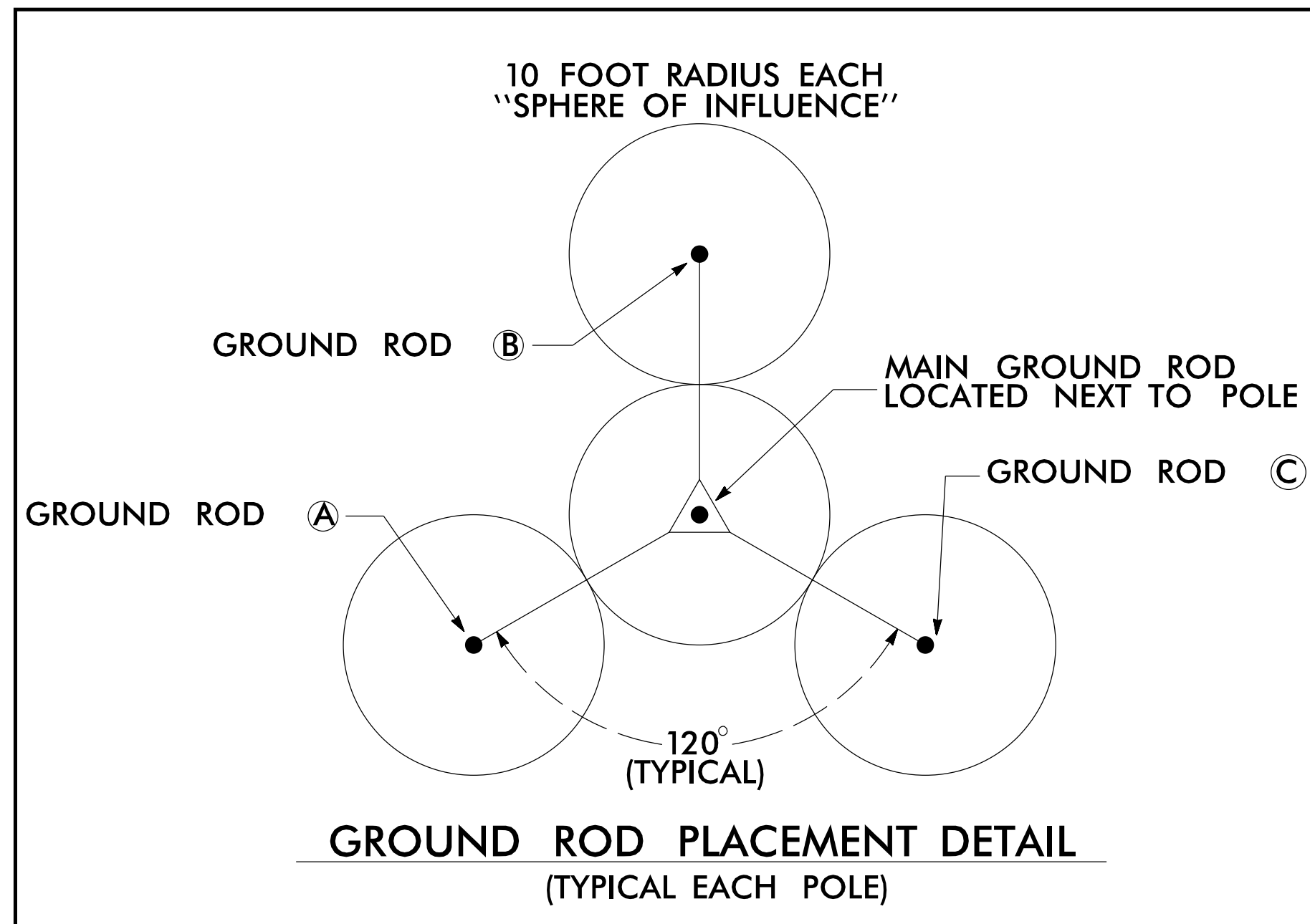
1. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ELEVATION DRAWINGS FOR ENGINEER'S APPROVAL.
2. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
3. ENSURE THAT THE TOP OF THE FOOTING EXTENDS AT LEAST 6 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
4. DESIGN AND CONSTRUCT THE PEDESTAL STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 110 MPH.
5. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.

3/11/2022
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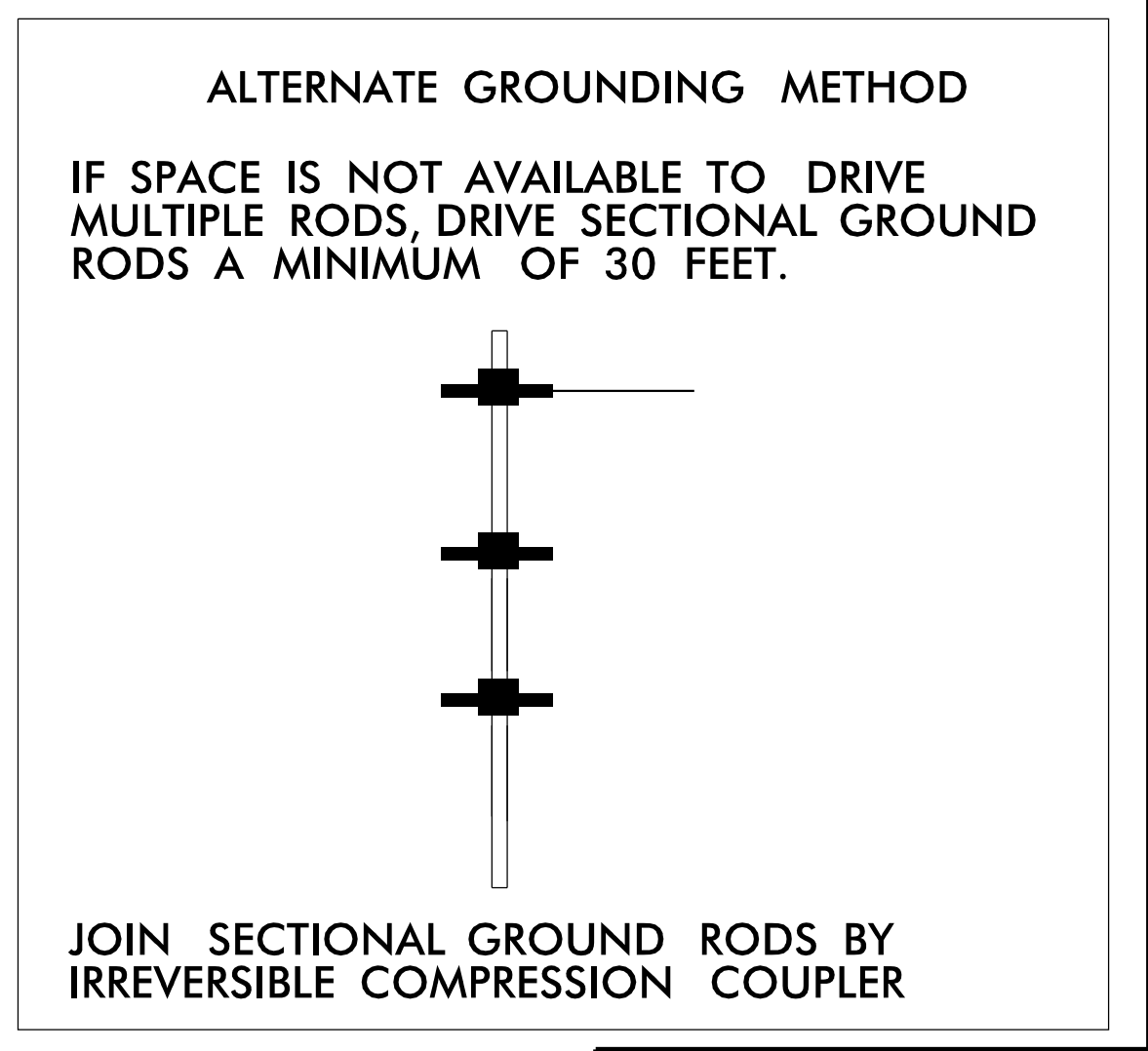
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Prepared for the Offices of:		I-95 Northbound DMS-3 Elevation (Mile-Marker 36)		SEAL
Division 6 Robeson County Lumberton				
PLAN DATE: March 2022	REVIEWED BY: S.G. Haynie			DocuSigned by: Steven G. Haynie 3/18/2022 SIGNATURE DATE
PREPARED BY: O. Drobny	REVIEWED BY: J. S. Cole			
REVISIONS	INIT.	DATE		
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INSTALL ELECTRICAL SERVICE POLE NEAR RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.



NOTES

- BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN IRREVERSIBLE MECHANICAL CRIMP METHOD. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
- ALL CONNECTIONS TO GROUND RODS SHOULD BE MADE WITH AN IRREVERSIBLE MECHANICAL CRIMP METHOD.
- REFER TO STANDARD DRAWING 1700-2 FOR ALTERNATE GROUND ROD INSTALLATION METHOD AS APPROVED BY THE ENGINEER.
- INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
- REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUSS AND NEUTRAL BUSS.



Prepared For the Offices of:

Division 6 Robeson County Lumberton

PLAN DATE: March 2022 REVIEWED BY: S.G. Haynie

PREPARED BY: O. Drobny REVIEWED BY: J.S. Cole

REVISIONS INIT. DATE

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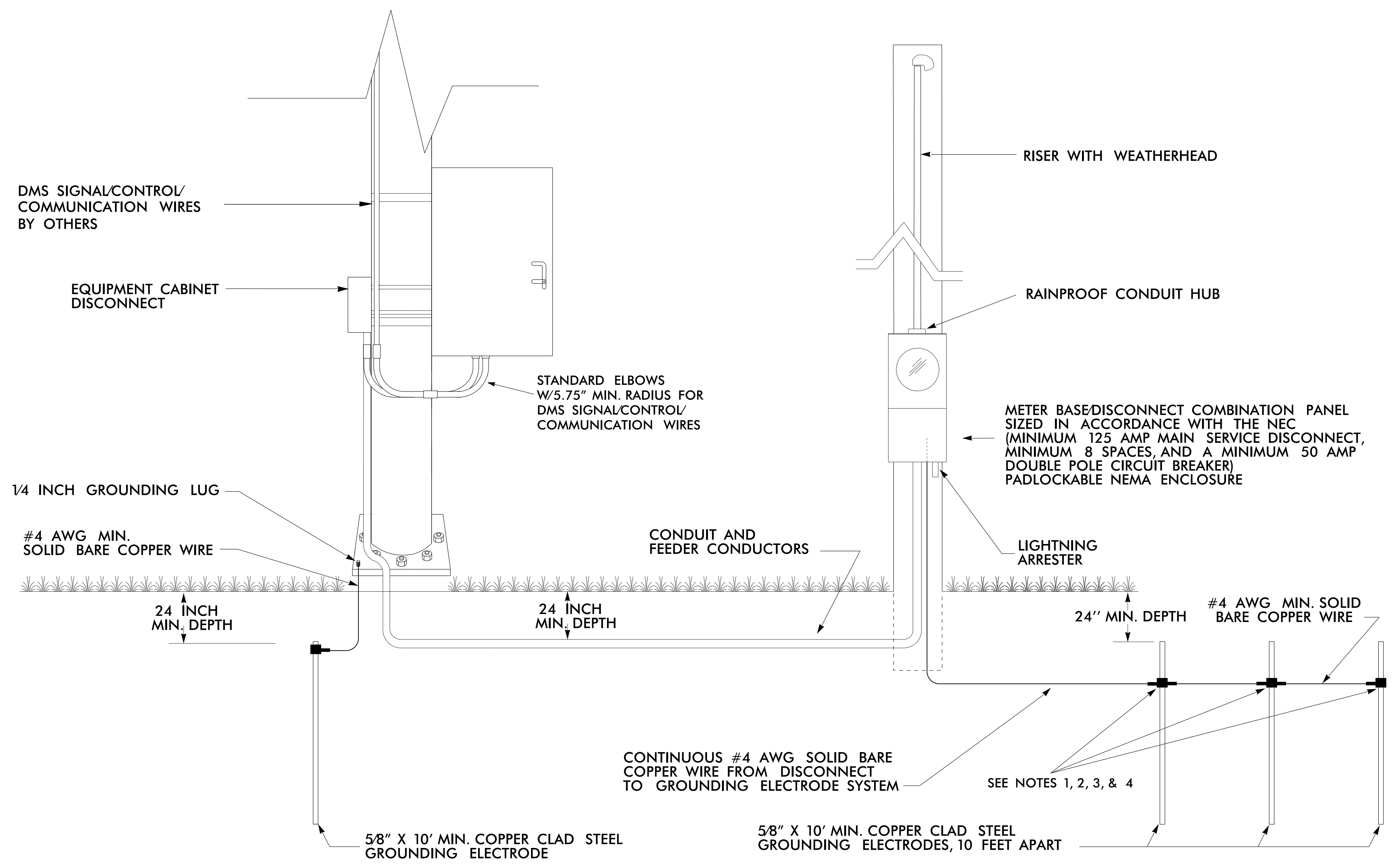
CCTV CAMERA INSTALLATION FOR WOOD POLES WITH AERIAL ELECTRICAL SERVICE TYPICAL DETAIL

SEAL

SEAL 029531

Steven G. Haynie 3/18/2022

3/15/2022
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NOTES

1. INSTALL A MINIMUM OF THREE (3) GROUNDING ELECTRODES SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
2. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHOULD MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
3. MECHANICALLY CRIMP ALL CONNECTIONS TO GROUND RODS USING AN IRREVERSIBLE COMPRESSION TOOL.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.
5. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
6. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
7. INSTALL CONDUIT BETWEEN DISCONNECT AND CABINET.
8. ENSURE EQUIPMENT GROUND IS ELECTRICALLY BONDED TO CABINET.

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	Prepared For the Offices of: 	
	DYNAMIC MESSAGE SIGN WITH AERIAL ELECTRICAL SERVICE TYPICAL DETAIL	
Division 6 Robeson County Lumberton	PLAN DATE: March 2022 REVIEWED BY: S.G. Haynie	PREPARED BY: O. Drobny REVIEWED BY: J.S. Cole
REVISIONS	INIT.	DATE
NTS		
Signature: <i>Steven G. Haynie</i> Date: 3/18/2022		