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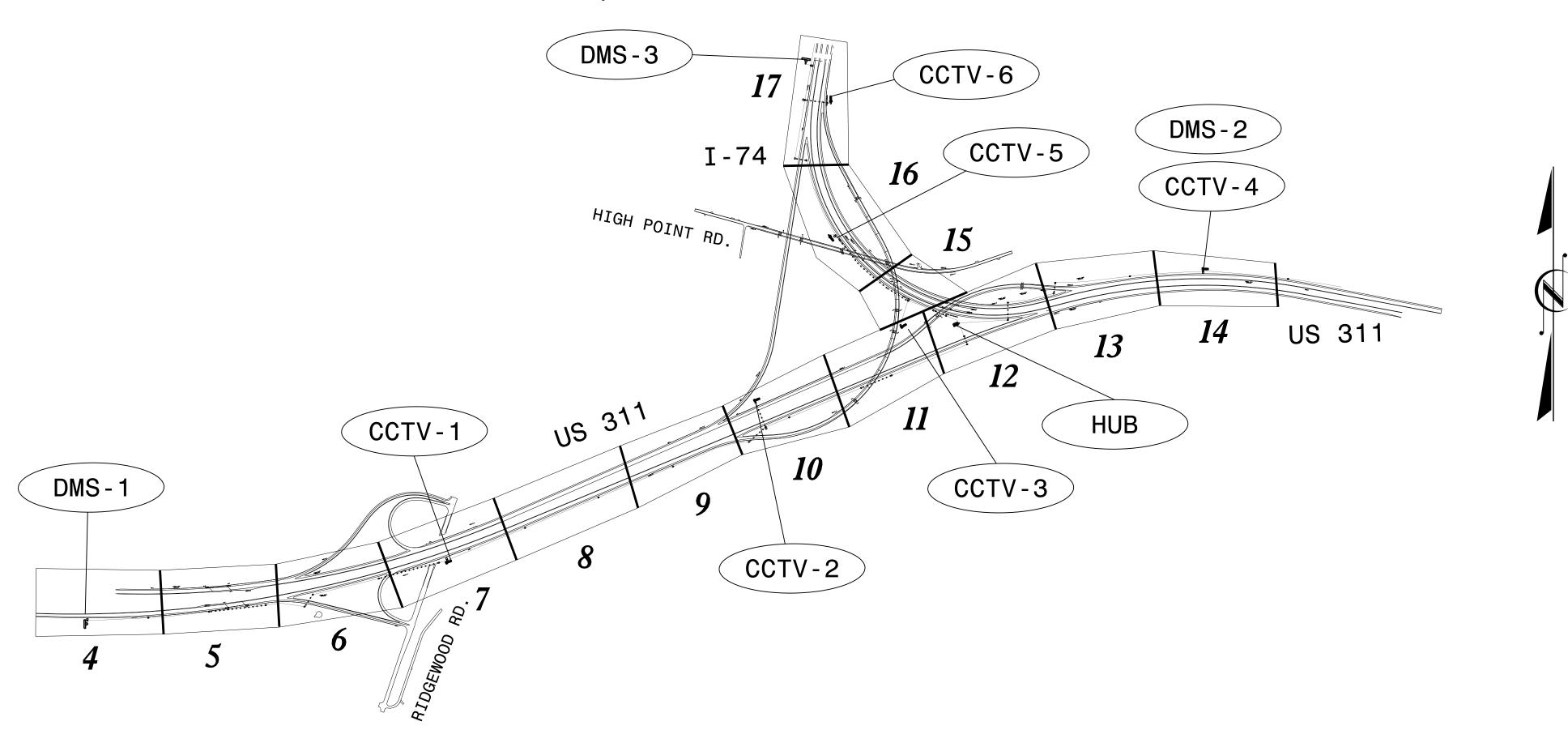
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.		SHEET NO.
N.C.	U-	-2579AA	ITS-1
STATE PROJ. NO.		F. A. PROJ. NO.	DESCRIPTION
34839.3.13		0074226	CONST.
34839.1.7		0074226	PE

FORSYTH COUNTY

LOCATION: WINSTON-SALEM NORTHERN BELTWAY
EASTERN SECTION (FUTURE I-74)
FROM US 311 TO I-40

TYPE OF WORK: COMMUNICATIONS CABLE AND CONDUIT ROUTING, CCTV
CAMERA, DYNAMIC MESSAGE SIGN AND HUB CABINET INSTALLATION



2018 STANDARD SPECIFICATIONS

PROJECT LENGTH PROJECT LENGTH = 1.60 MILES

LETTING DATE: OCTOBER 18, 2022

INDEX	OF SHEETS
SHEET ITS 1	TITLE SHEET
SHEET ITS 2	CONSTRUCTION NOTES AND LEGEND
SHEET ITS 3	SYSTEM BLOCK DIAGRAM
SHEET ITS 4-17	CABLE ROUTING PLANS
SHEET ITS 18-23	SPLICE DETAILS
SHEET ITS 24-28	TYPICAL DETAILS
SHEET ITS 29–31	DMS S-DIMENSIONS

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

1700.01	ELECTRICAL SERVICE OPTIONS
1700.02	ELECTRICAL SERVICE GROUNDING
1715.01	UNDERGROUND CONDUIT-TRENCHING
1716.01	JUNCTION BOXES
1720.01	WOOD POLES
1730.01	FIBER OPTIC CABLE

2018 STANDARD SPECIFICATION

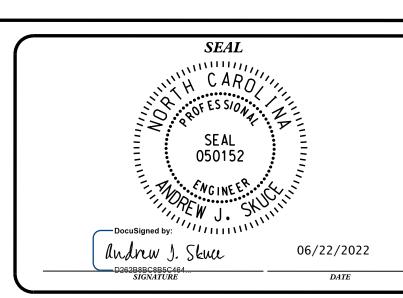
NCDOT CONTACT: TRANSPORTATION MOBILITY AND SAFETY

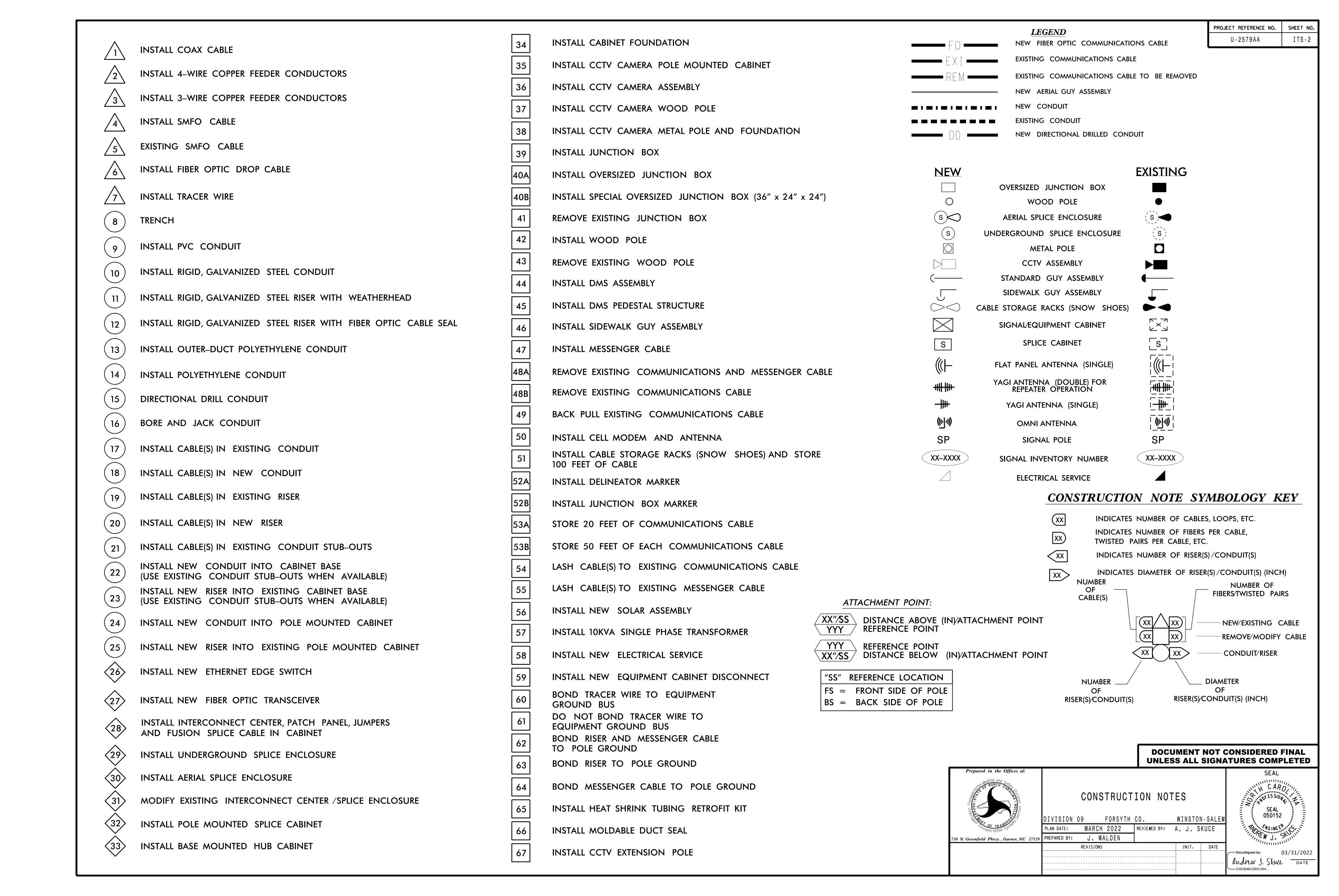
M. M. MCDIARMID, P.E, CPM STATE TRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS ENGINEER





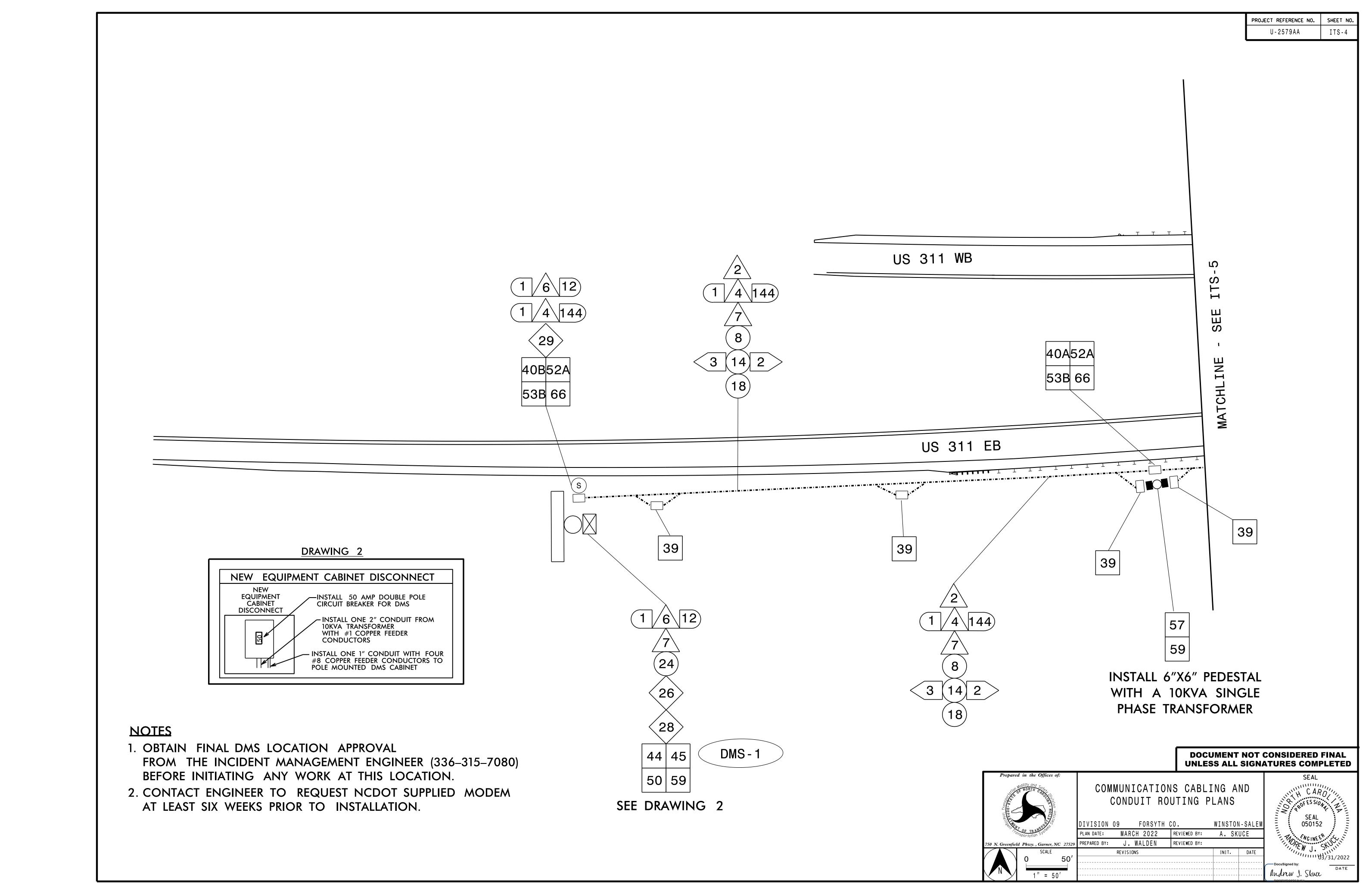
ALL DIMENSIONS IN THESE
PLANS ARE IN FEET
UNLESS OTHERWISE NOTED

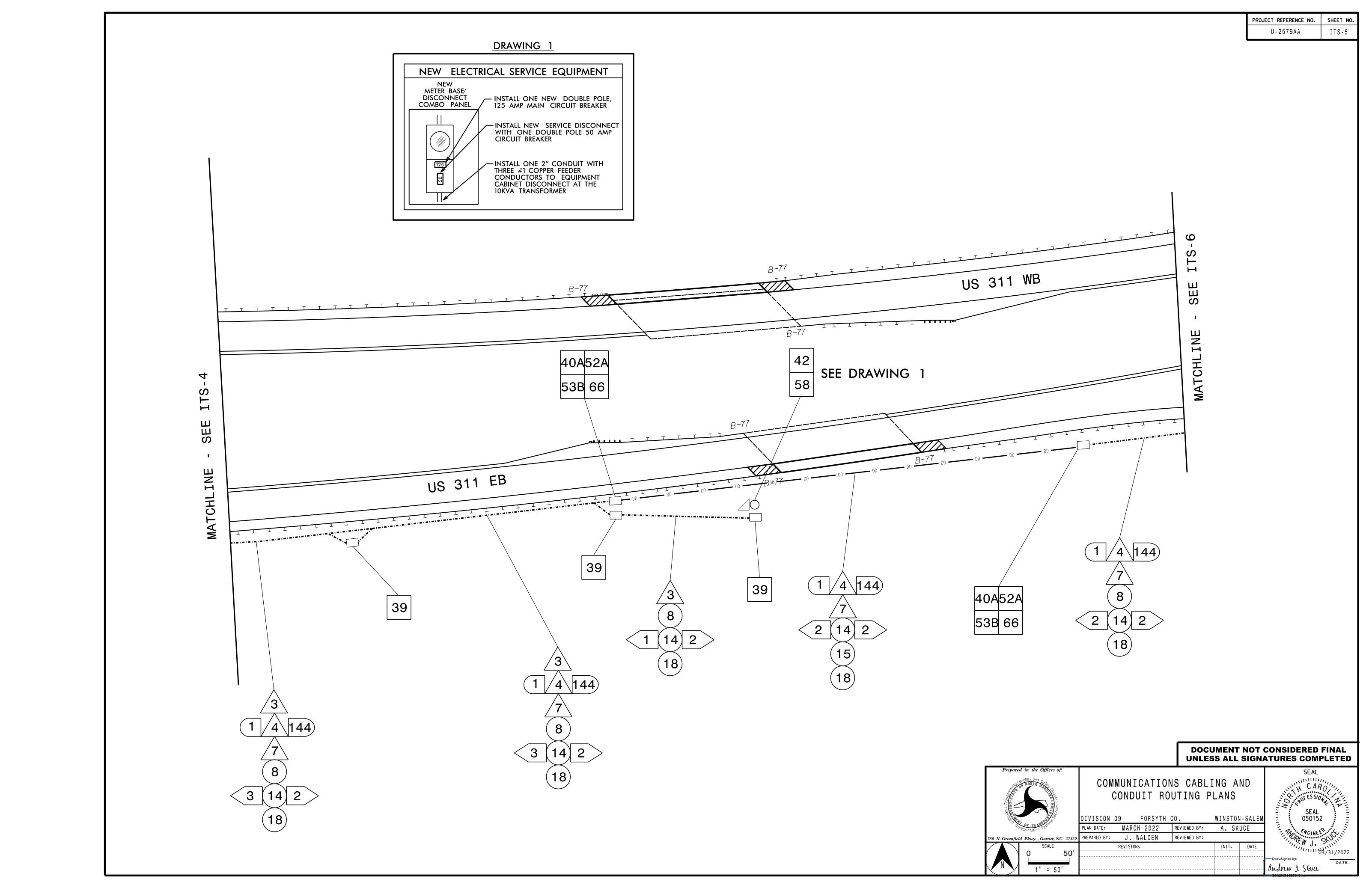


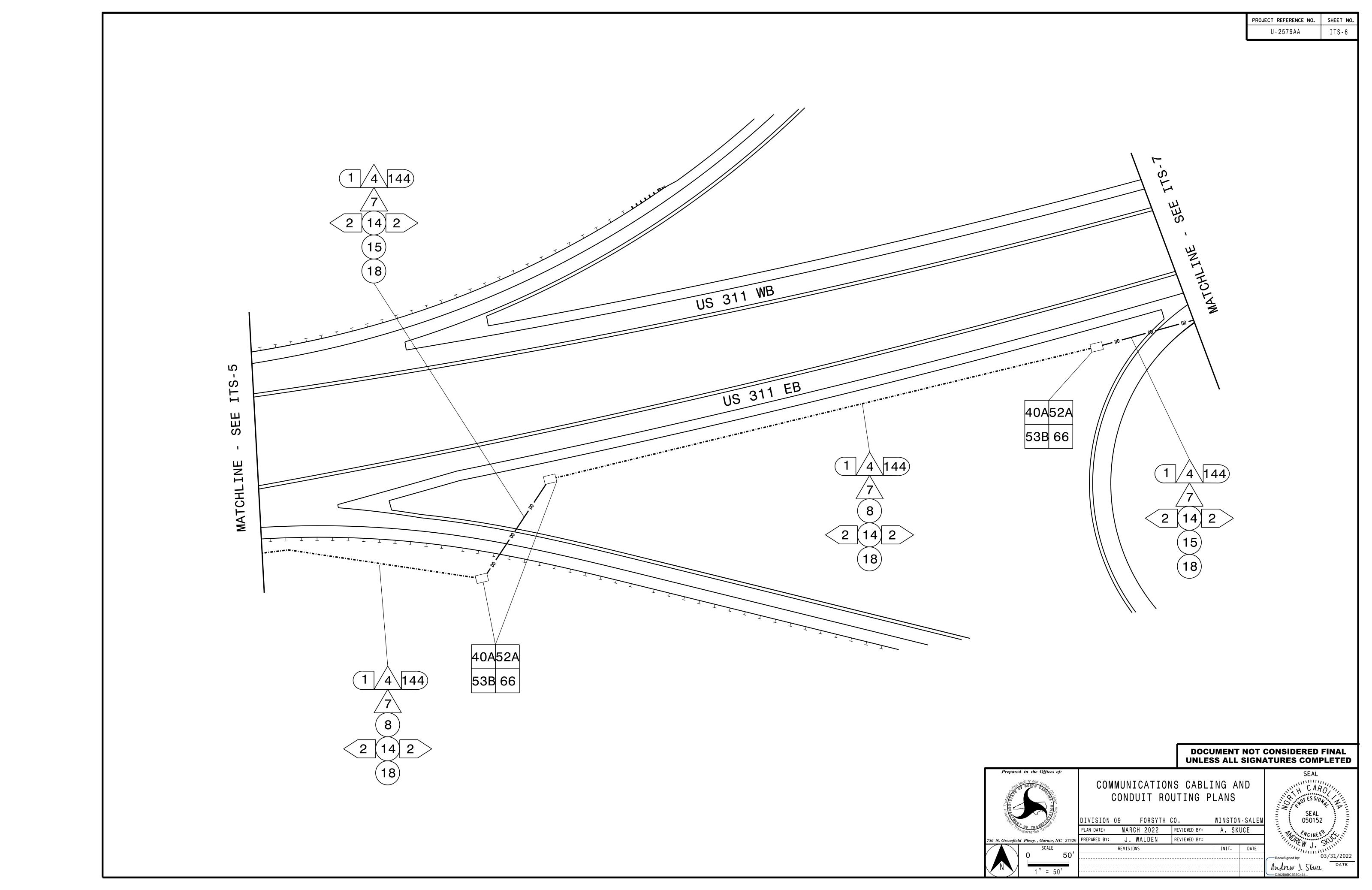


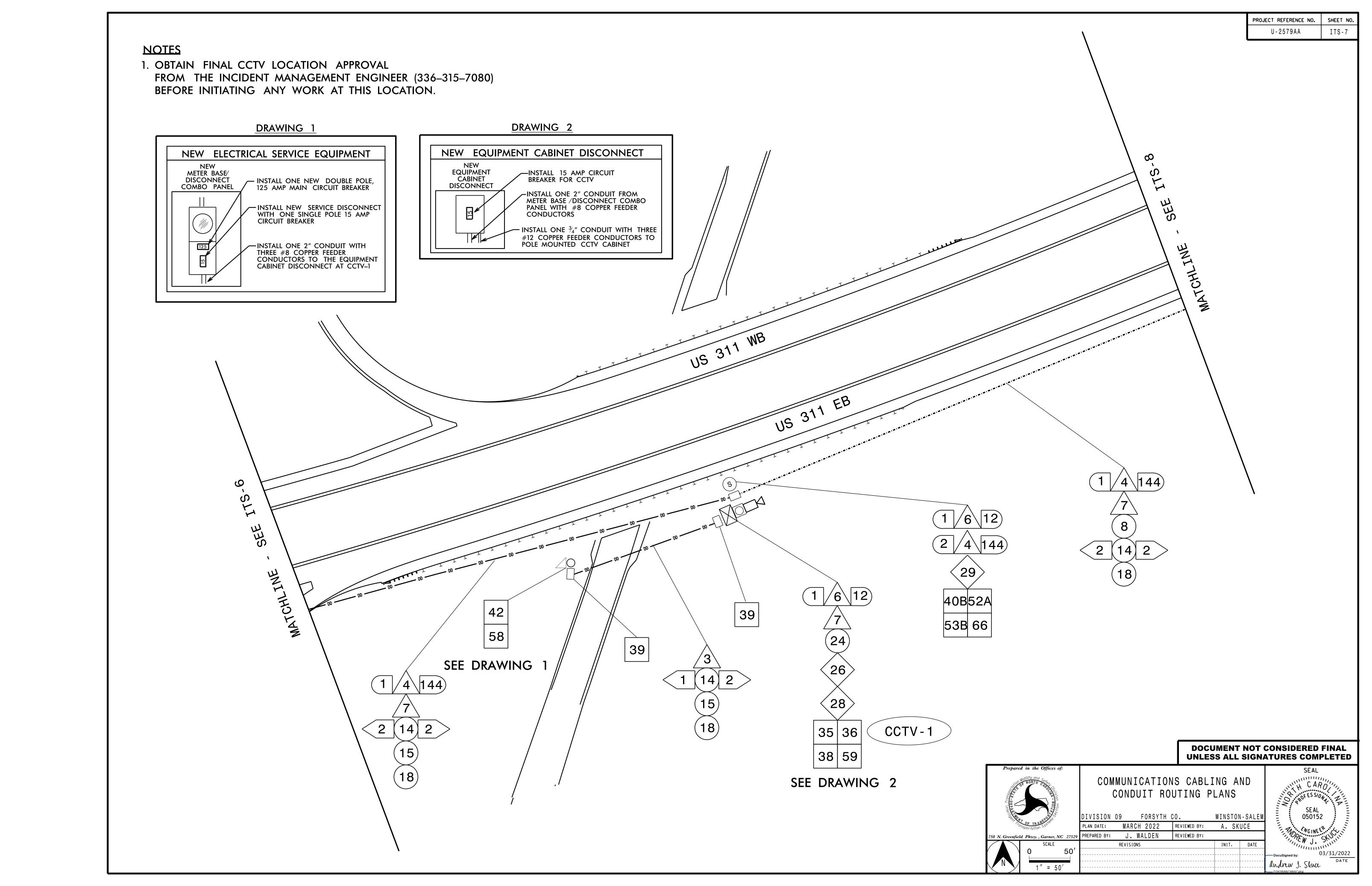
PROJECT REFERENCE NO. U-2579AA TO U-2579AB **LEGEND** = NEW DEVICE E-100 FIELD ETHERNET SWITCH = EXISTING DEVICE = NEW COMMUNICATIONS = EXISTING COMMUNICATIONS E-100 FIELD ETHERNET SWITCH E-100 = ETHERNET = FIBER OPTIC CABLE FIELD ETHERNET SWITCH = CELLULAR NETWORK E-100 FIELD ETHERNET SWITCH E-100 FIELD ETHERNET SWITCH E-100 FIELD ETHERNET SWITCH FIELD ETHERNET SWITCH DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED** DEVICE CONNECTION DIAGRAM NOTES 1. DEVICE NUMBERING IS FOR THE PURPOSES OF THIS PROJECT ONLY. DIVISION 09 FORSYTH CO. WINSTON-SALEM PLAN DATE: MARCH 2022 REVIEWED BY: A. SKUCE 2. INSTALL DEPARTMENT SUPPLIED CELL MODEMS IN DMS CABINETS FOR BACKUP COMMUNICATIONS. ALLOW 8 WEEK LEAD TIME AFTER REQUESTING THE MODEMS FROM THE DEPARTMENT. PREPARED BY: J. WALDEN REVIEWED BY: REVISIONS INIT. DATE

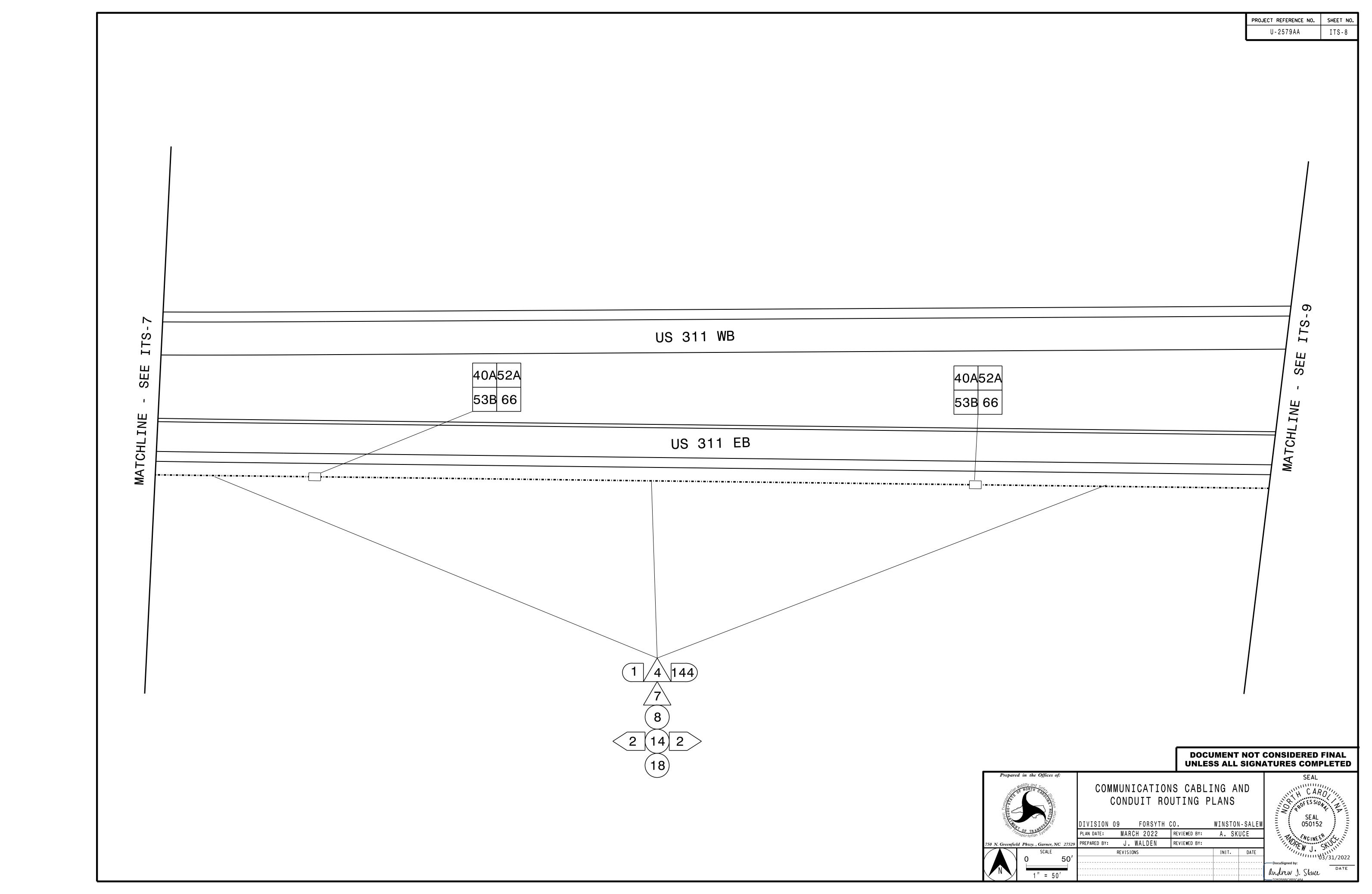
andrew J. Skua

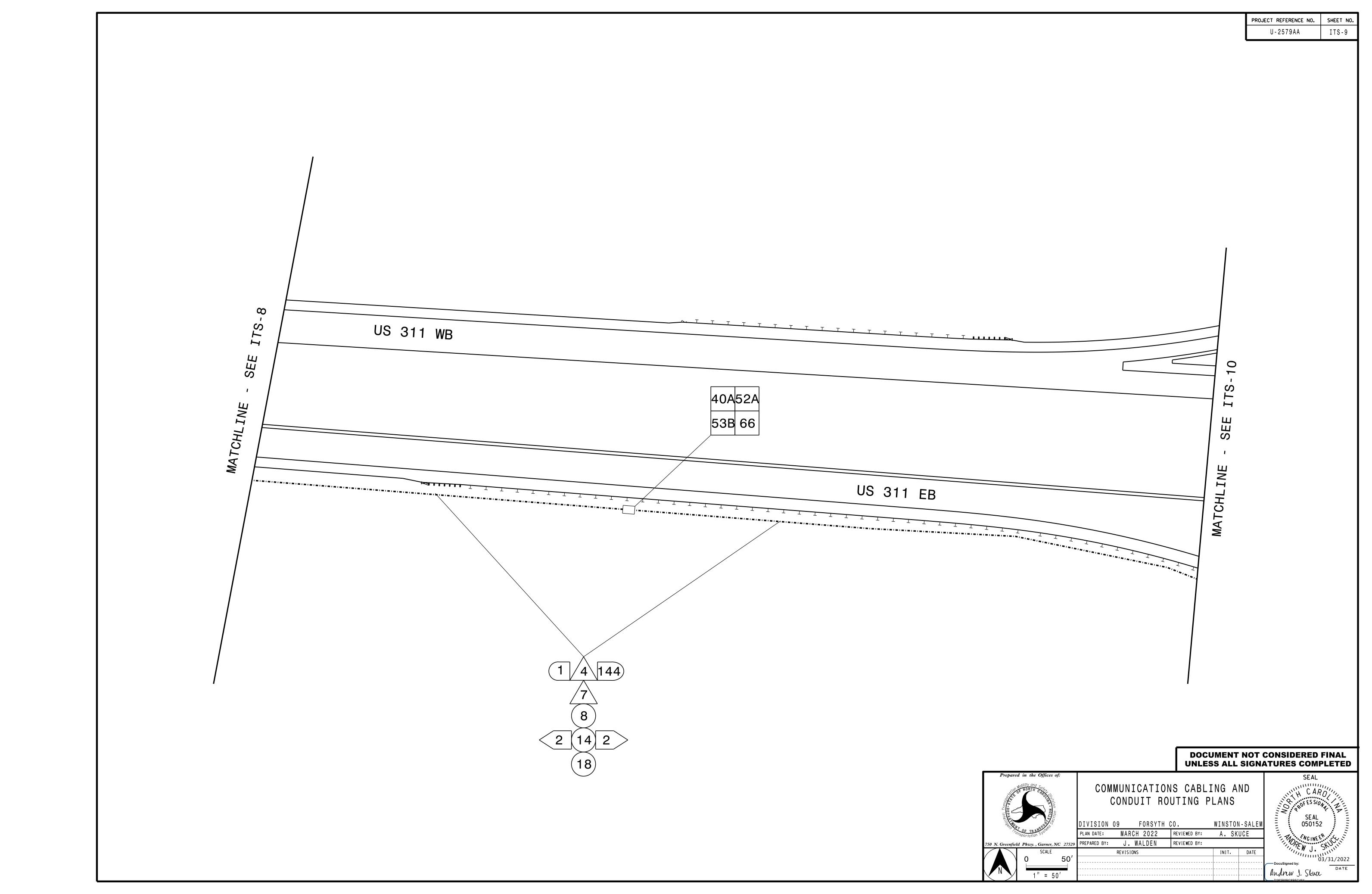


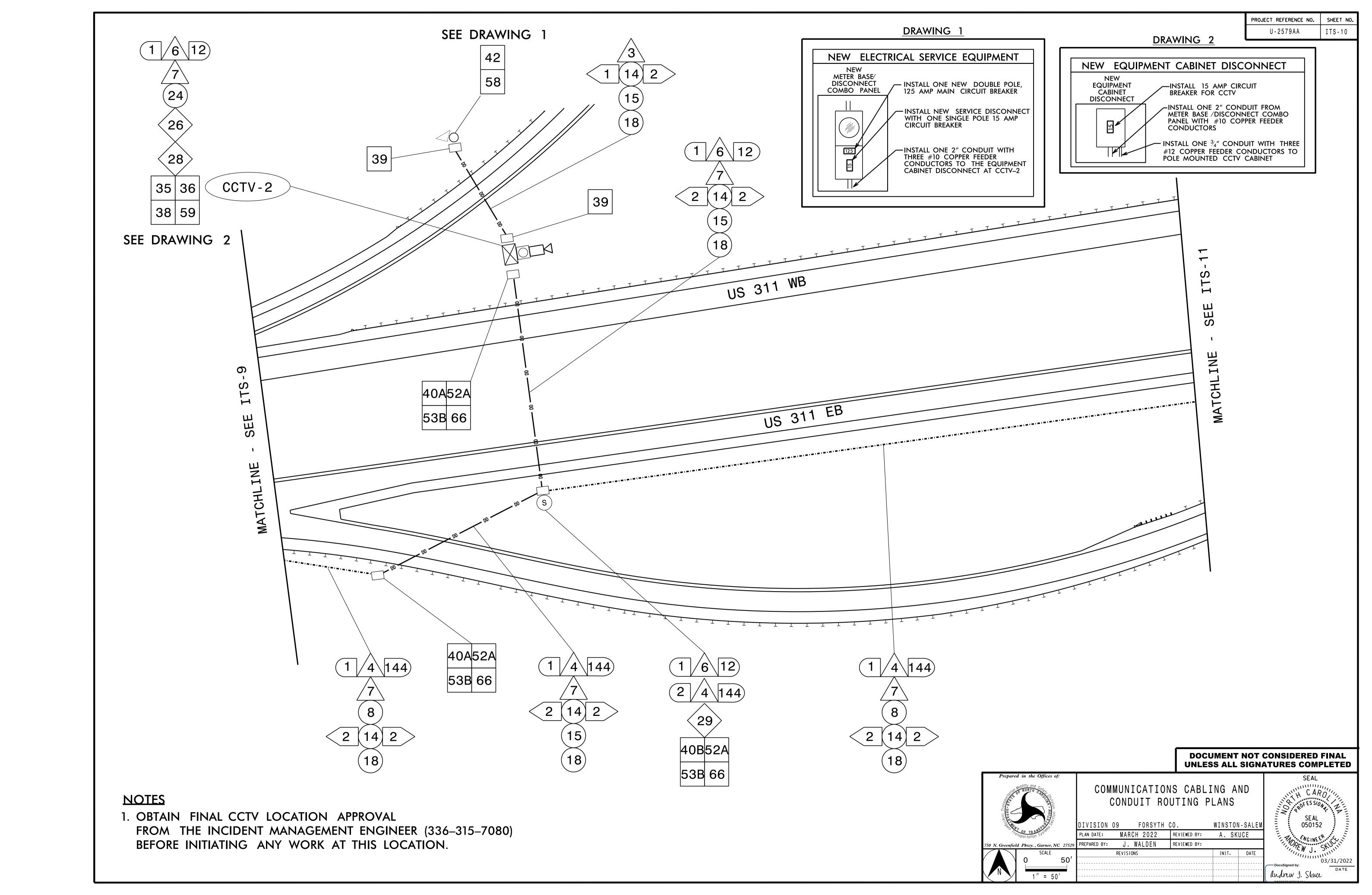


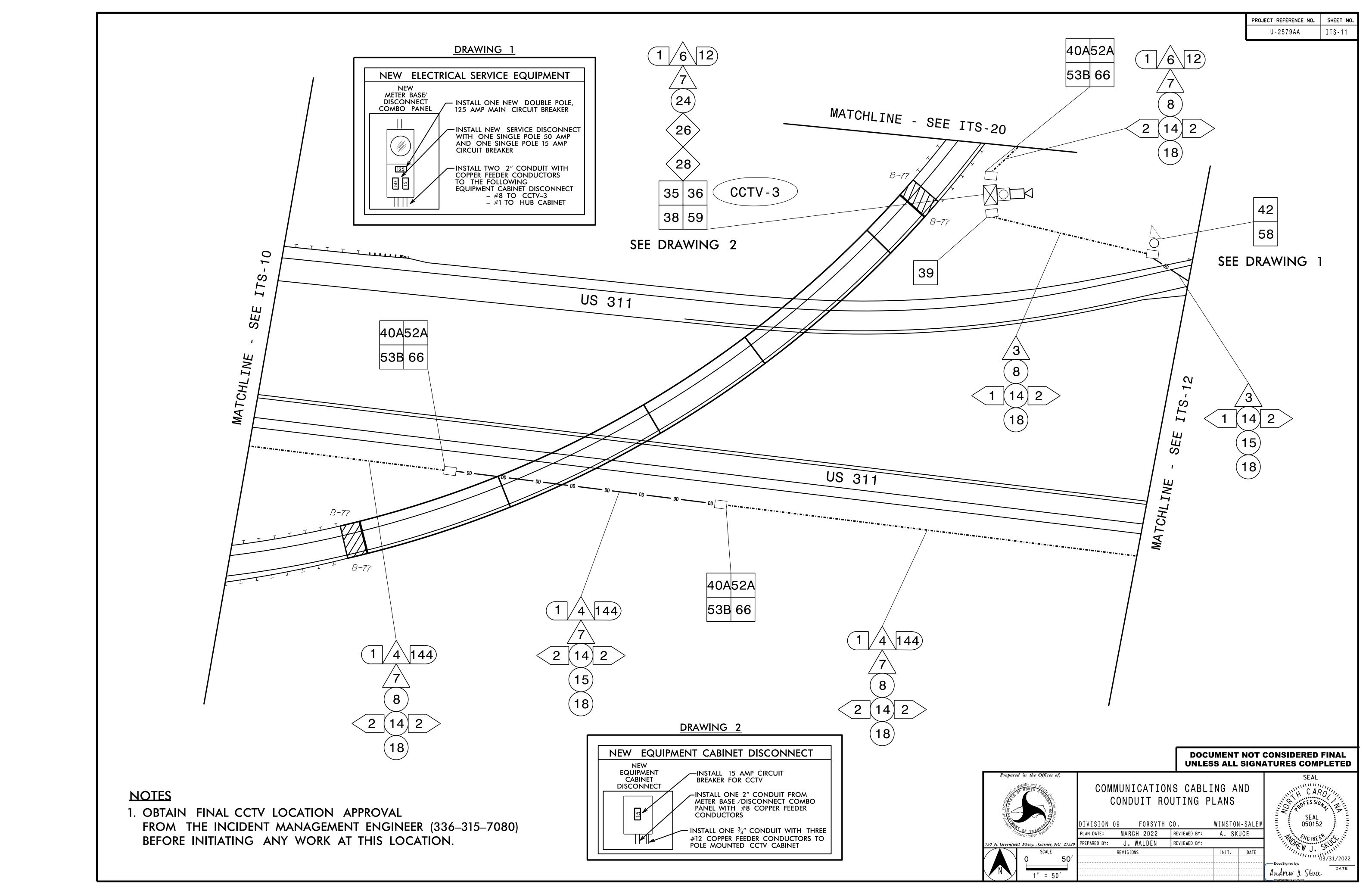


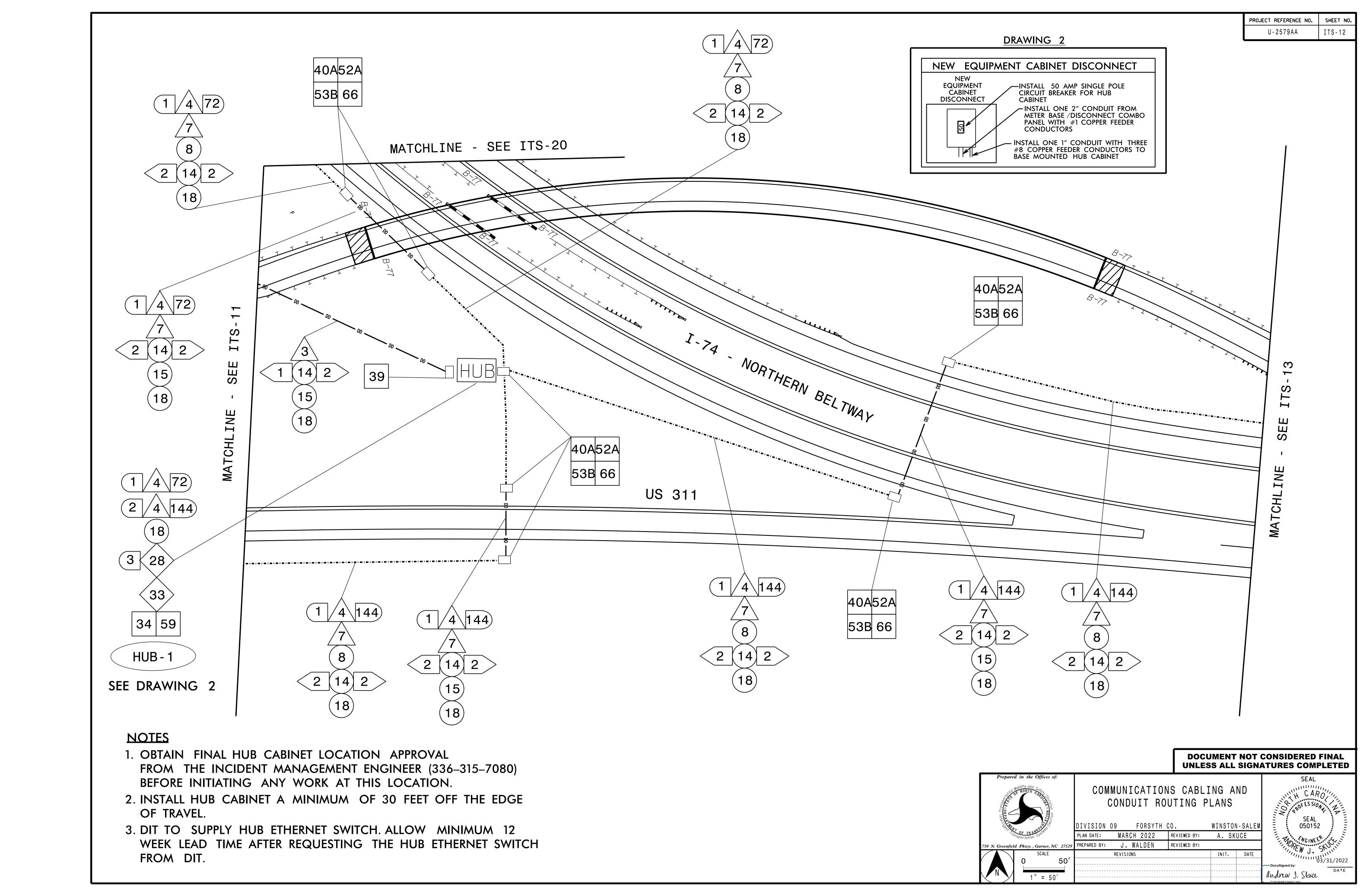


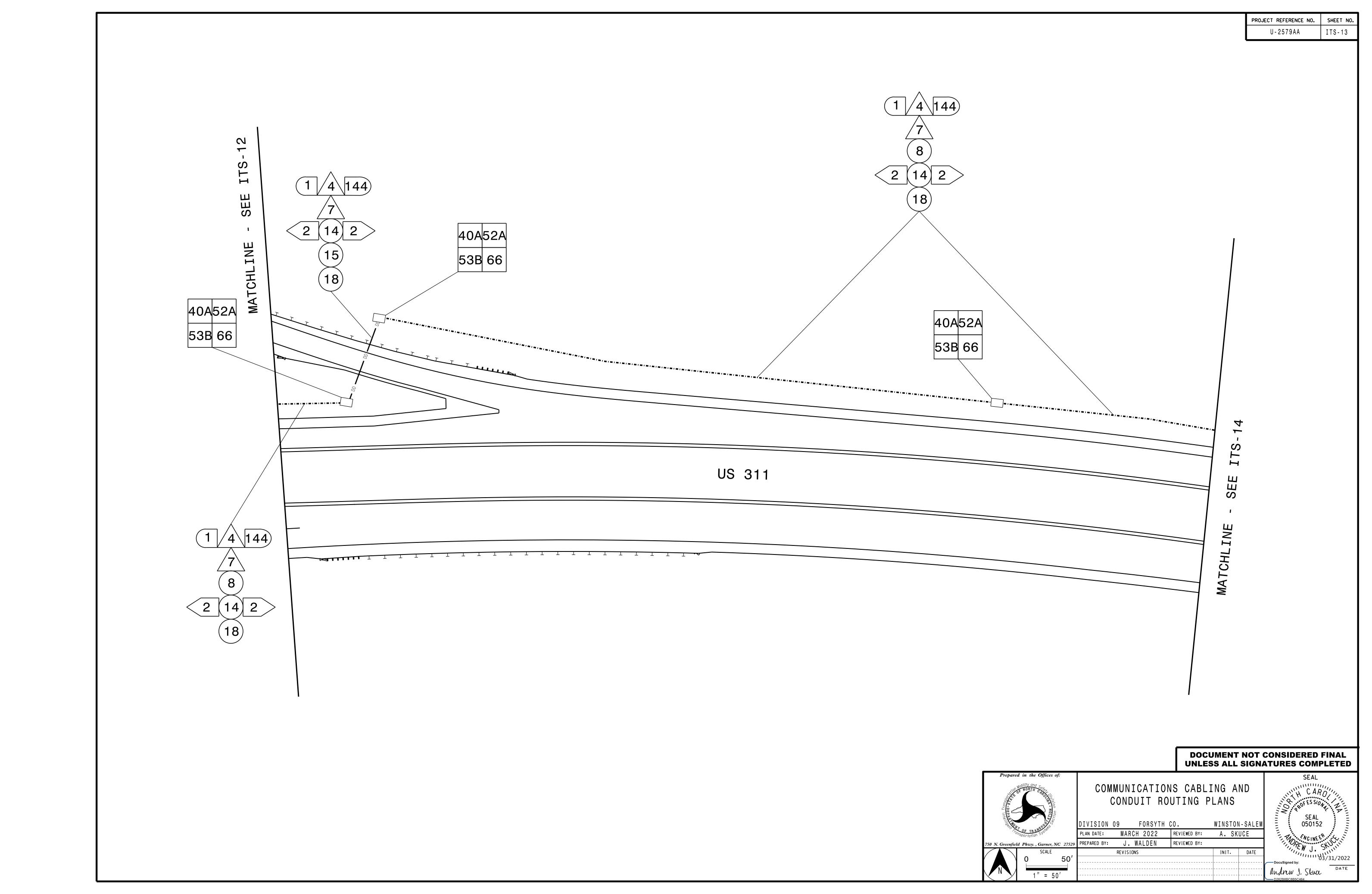


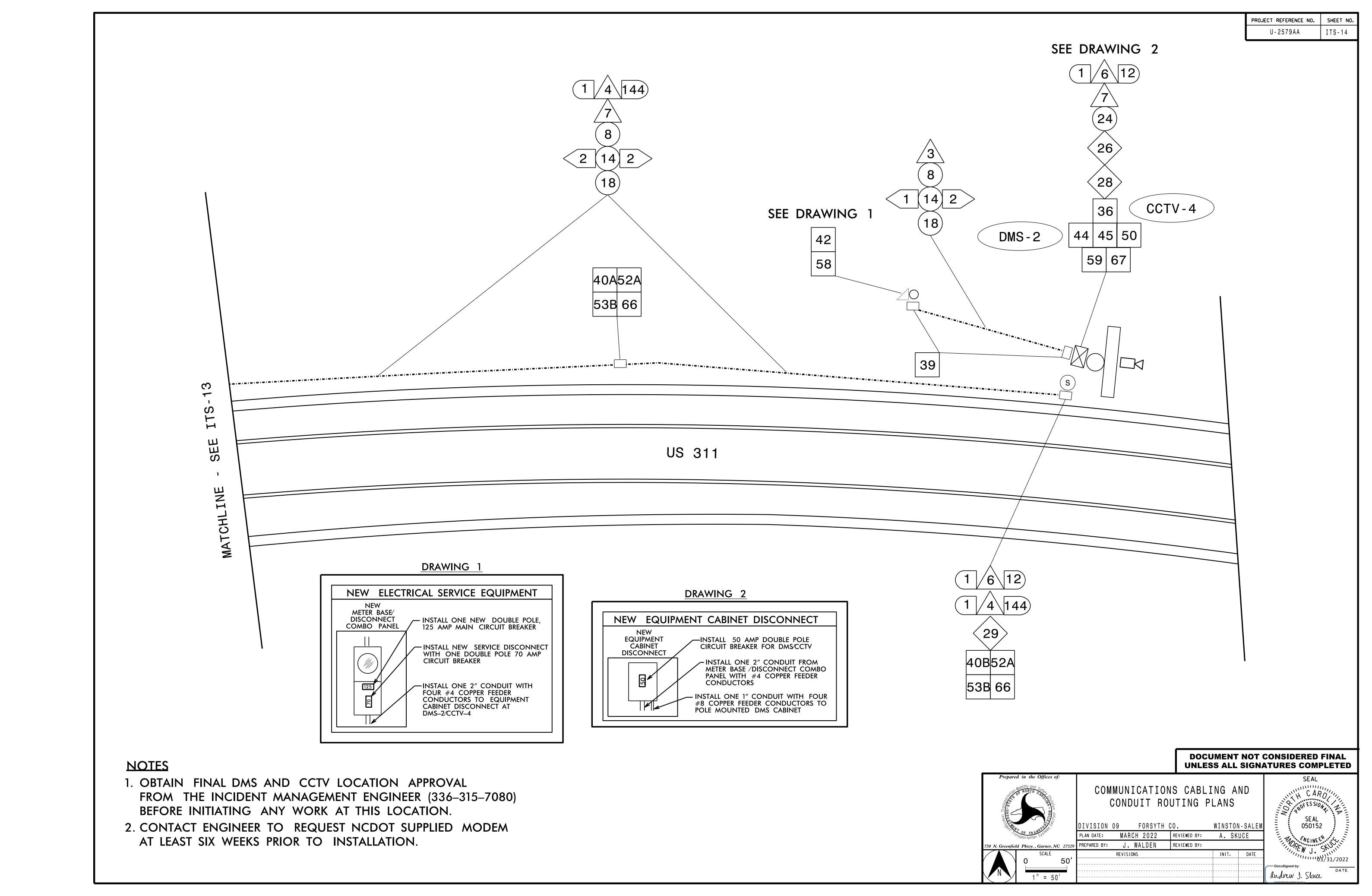


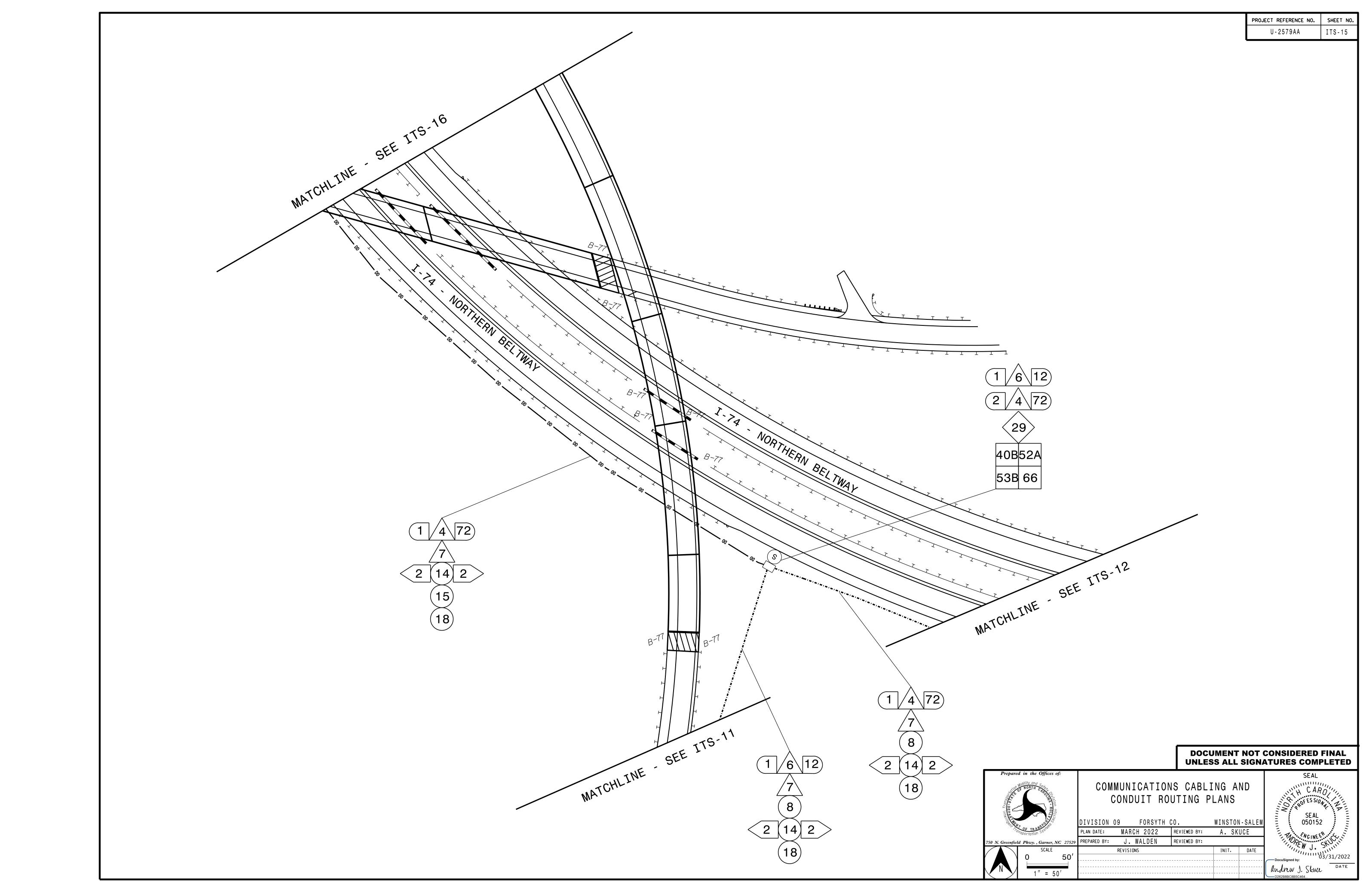


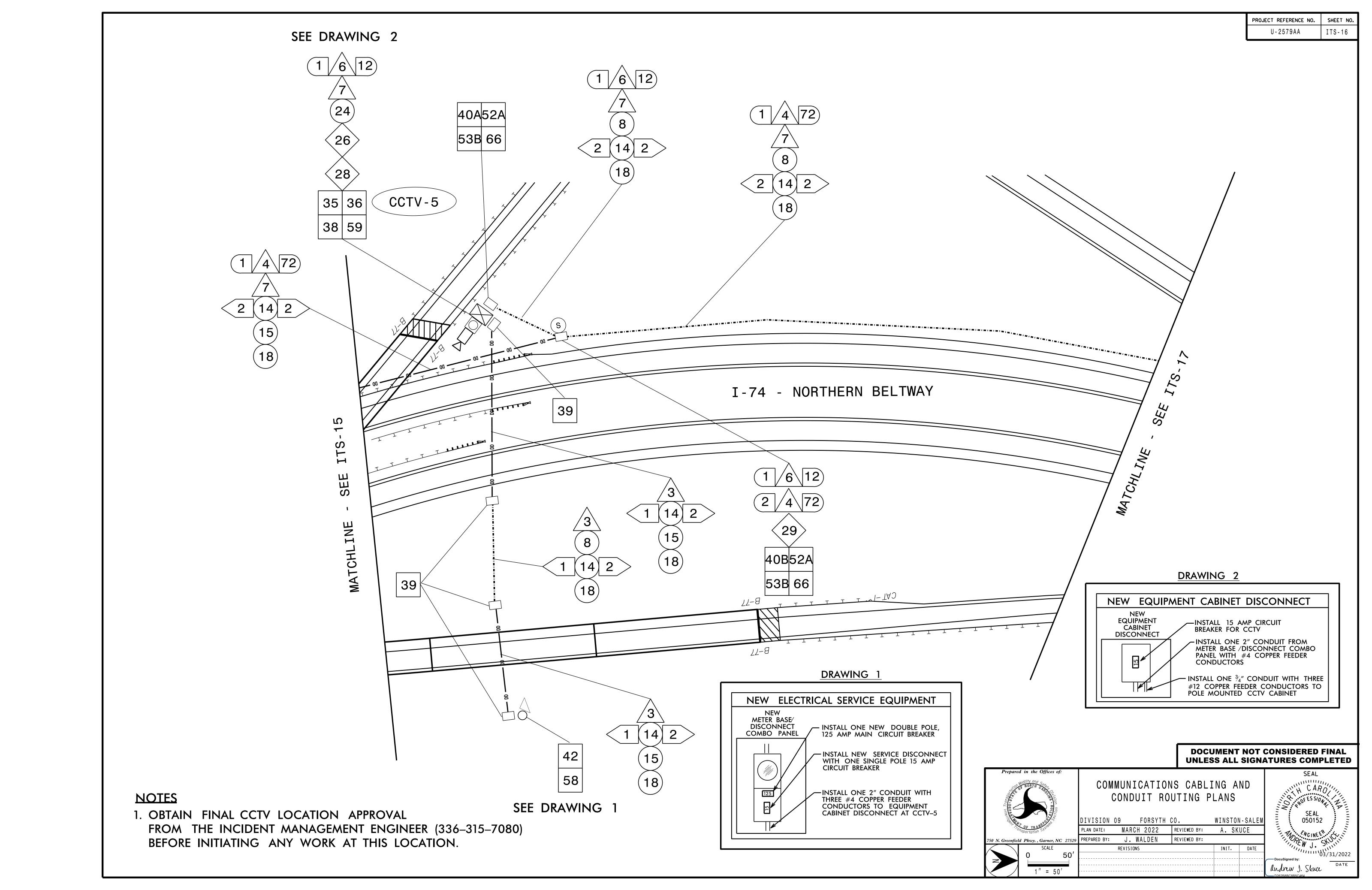


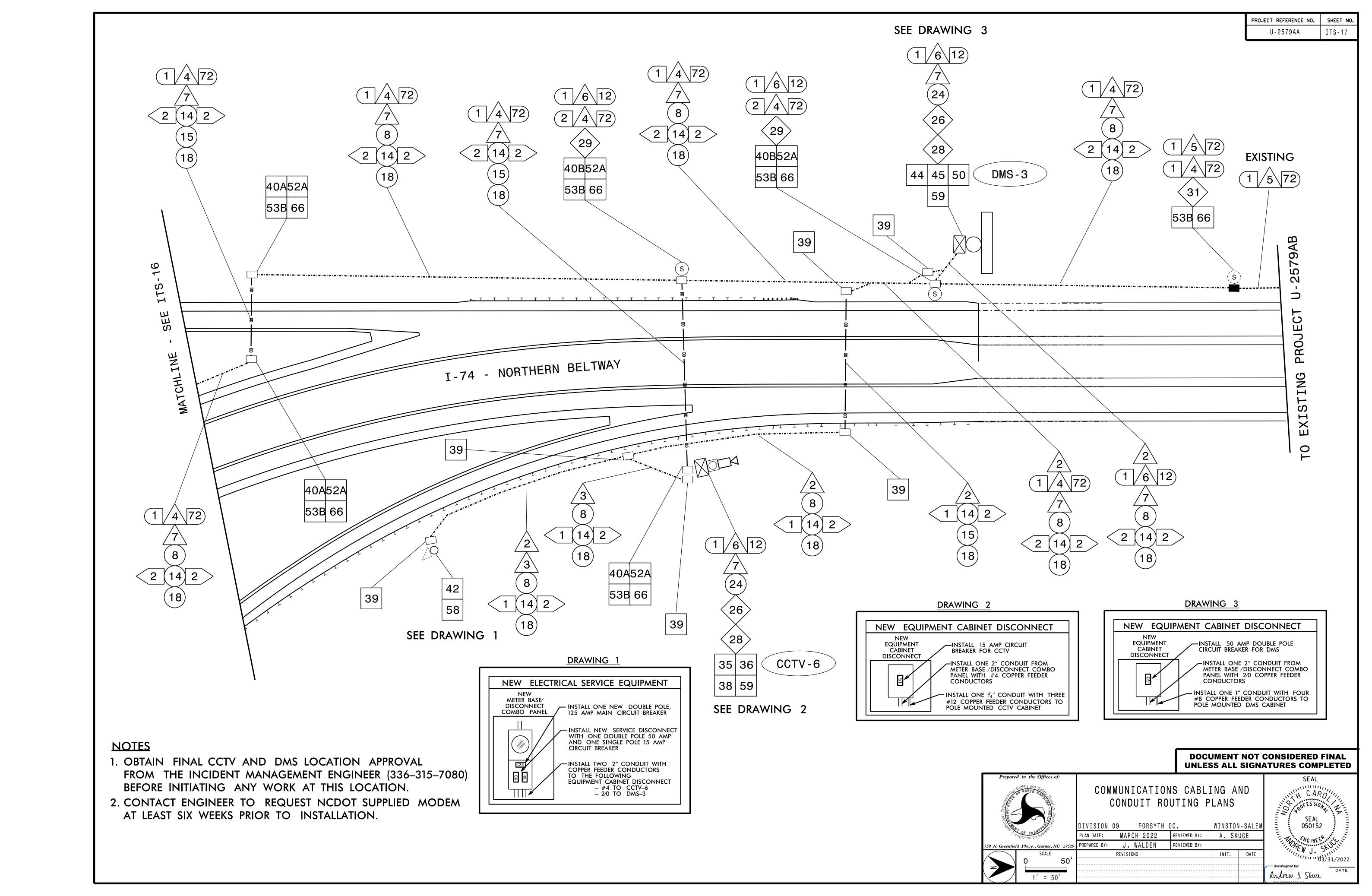


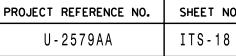


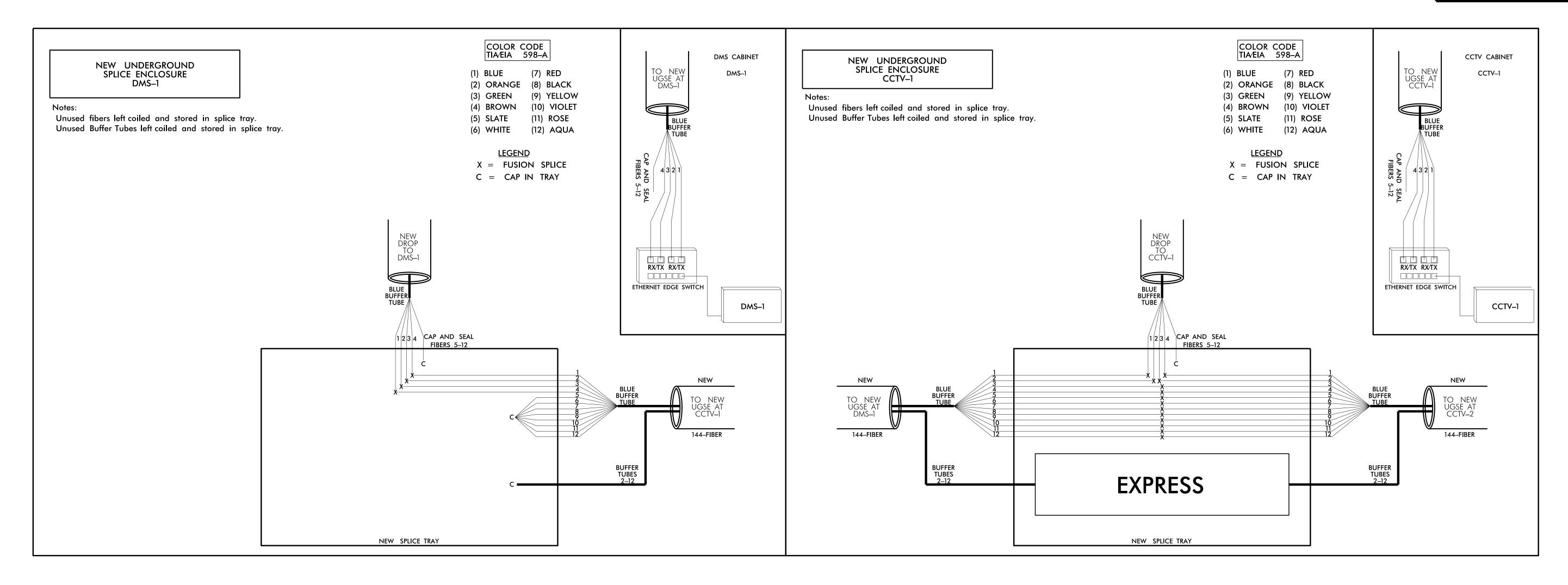




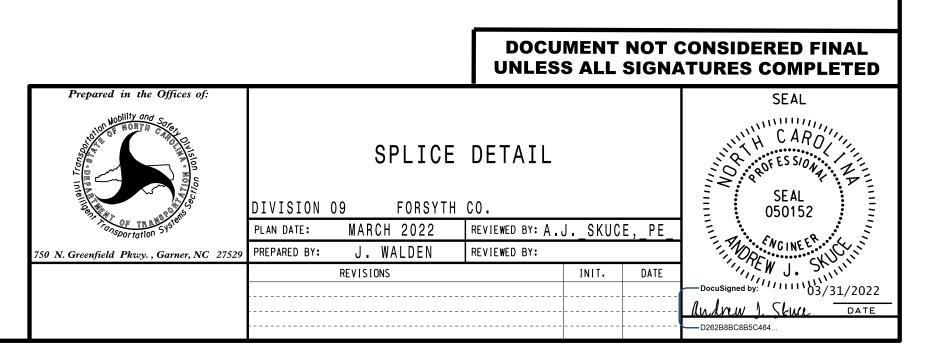


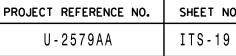


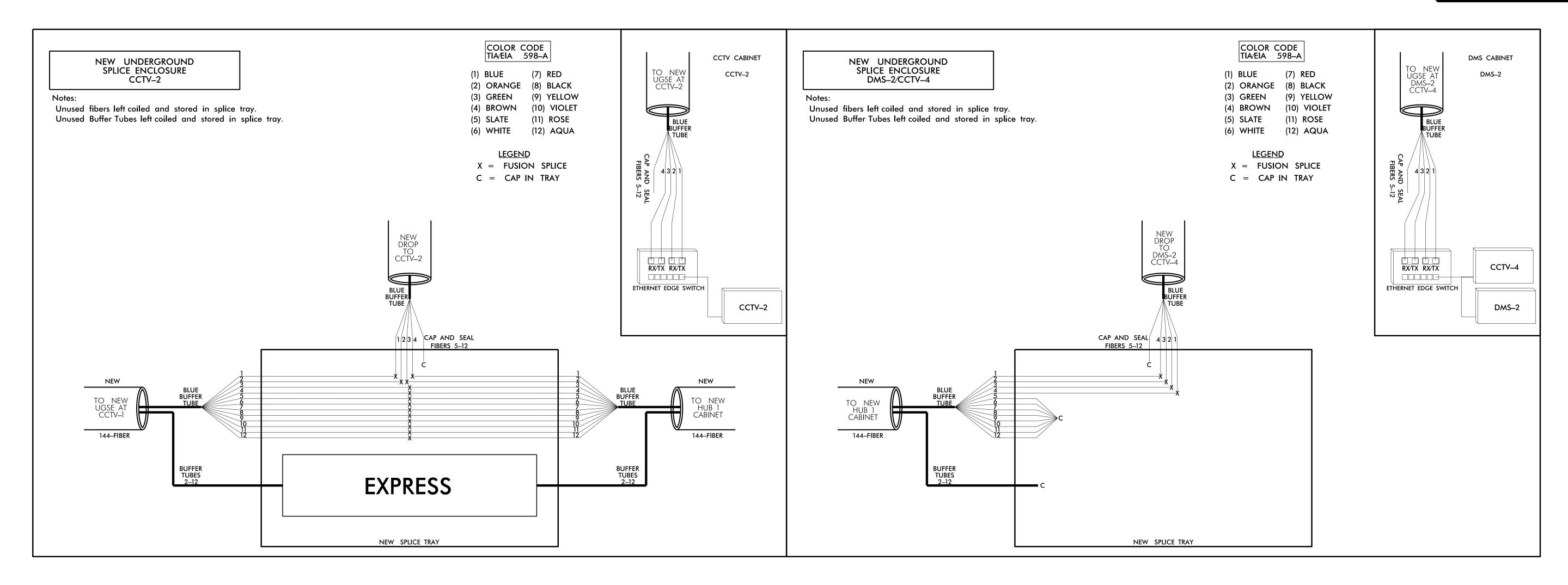




- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK CONTACT THE INCIDENT MANAGEMENT ENGINEER (336–315–7080) TO ARRANGE FOR PROGRAMING OF THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE THE INCIDENT MANAGEMENT ENGINEER (336–315–7080) AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SYSTEM IS OPERATIONAL
- 2) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
- 3) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
 - 1) SPLICE LOCATION
 - 2) DATE
 - 3) COMPANY NAME
 - 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING







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 - 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



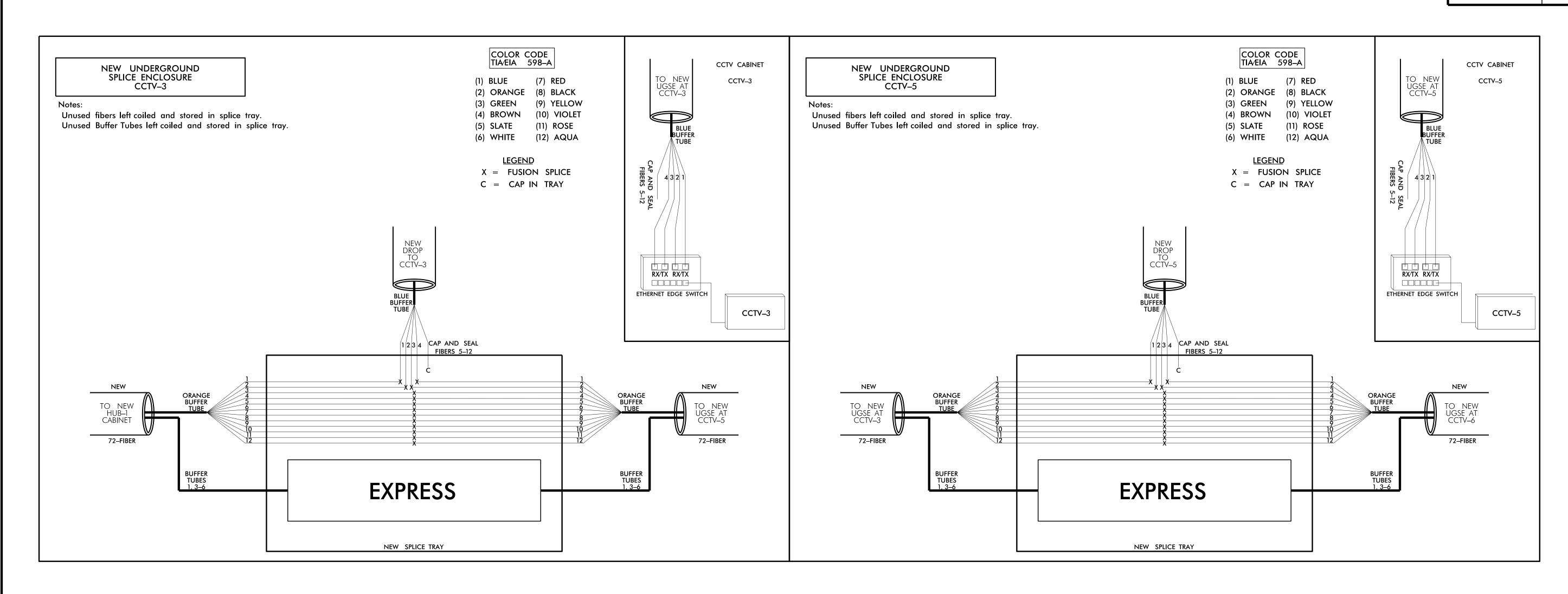
SPLICE DETAIL

DIVISION 09 FORSYTH CO.

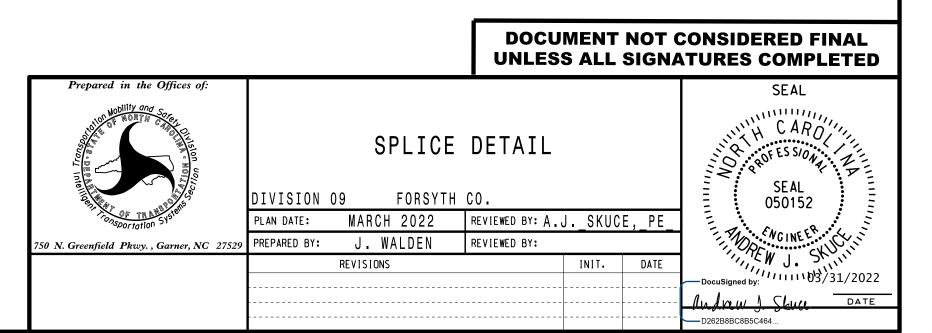
PLAN DATE: MARCH 2022 REVIEWED BY: A.J._SKUCE,_PE_

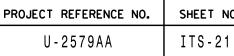
PREPARED BY: J. WALDEN REVIEWED BY:

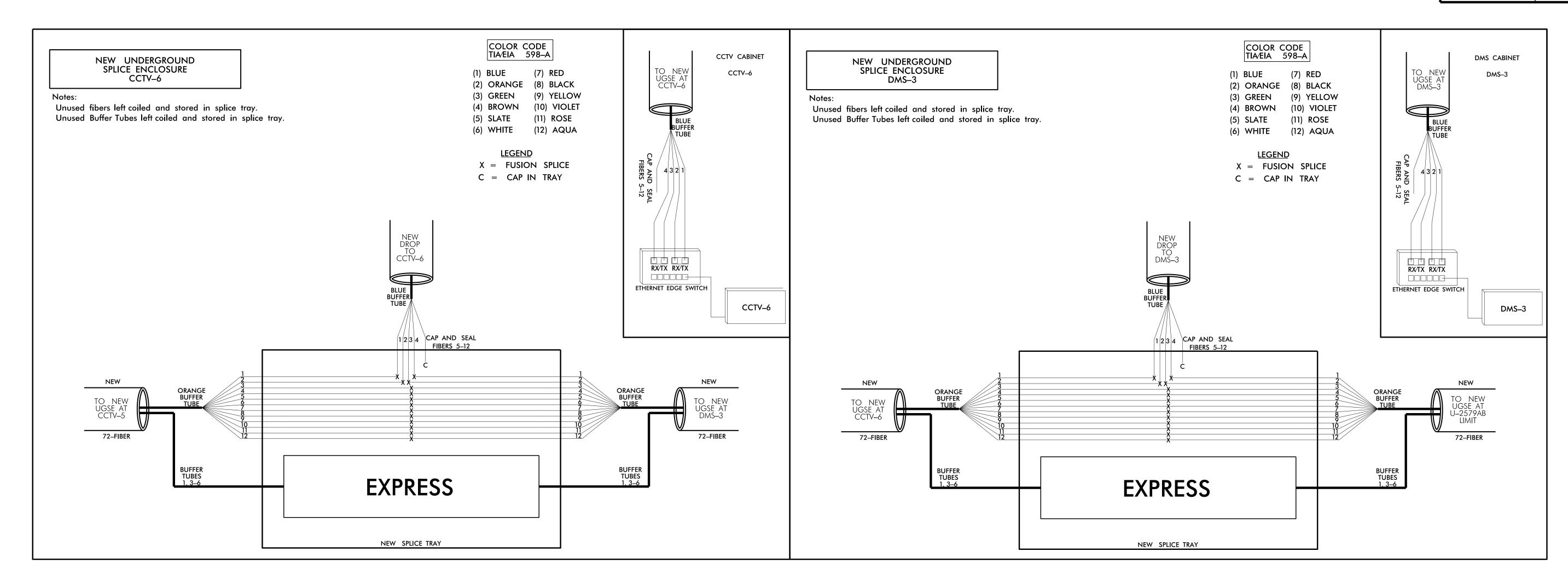
REVISIONS INIT. DATE



- 1) FIVE (5) DAYS PRIOR TO BEGINNING WORK CONTACT THE INCIDENT MANAGEMENT ENGINEER (336–315–7080) TO ARRANGE FOR PROGRAMING OF THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE THE INCIDENT MANAGEMENT ENGINEER (336–315–7080) AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SYSTEM IS OPERATIONAL
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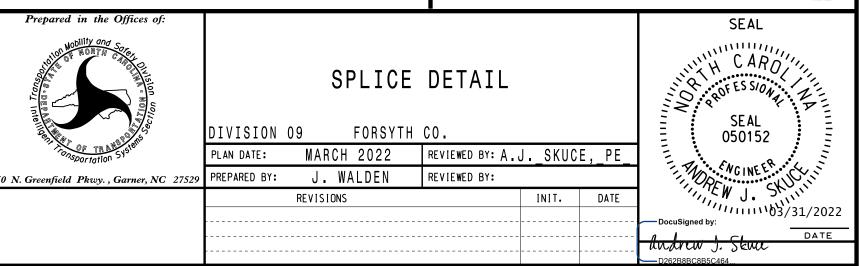






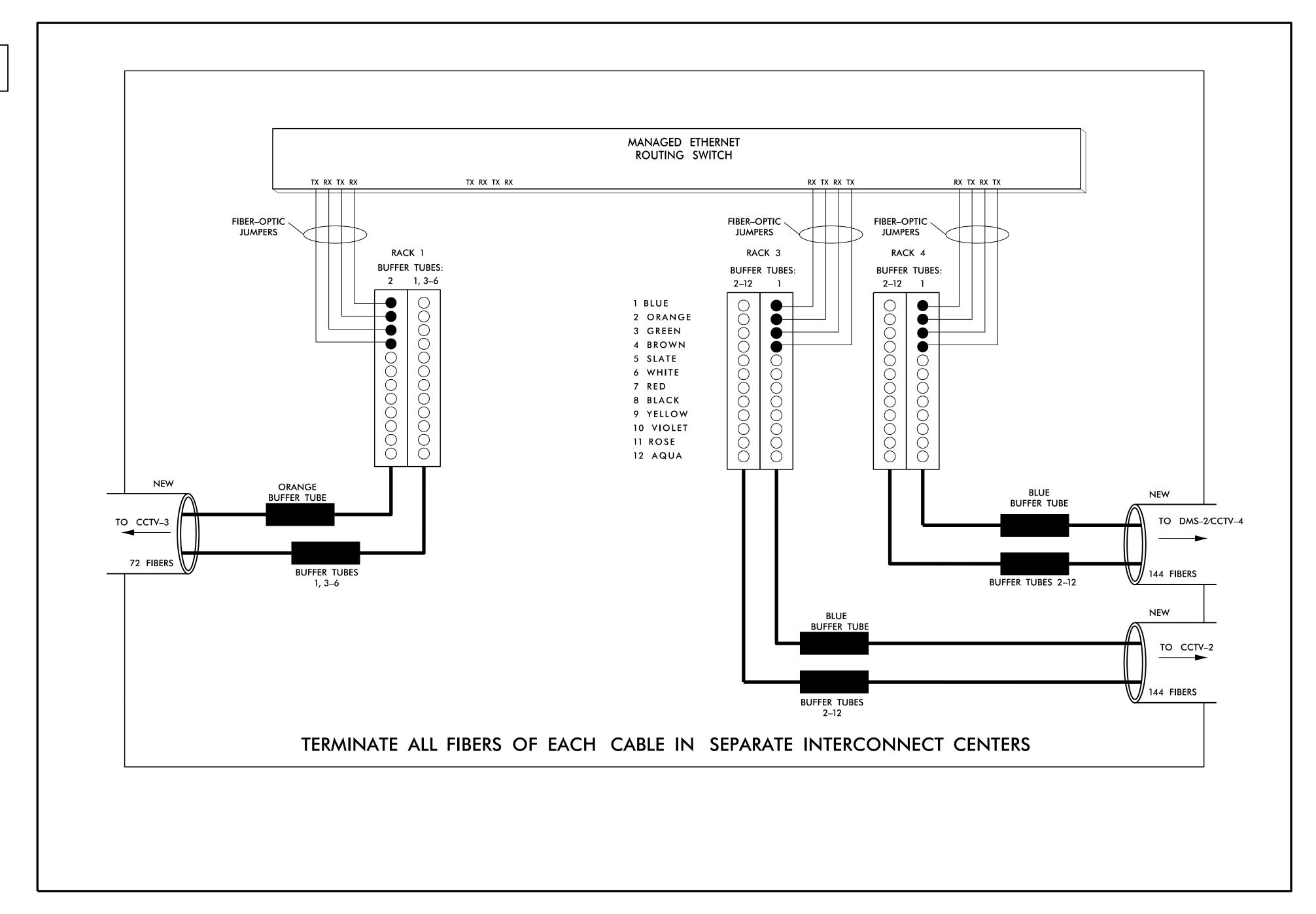
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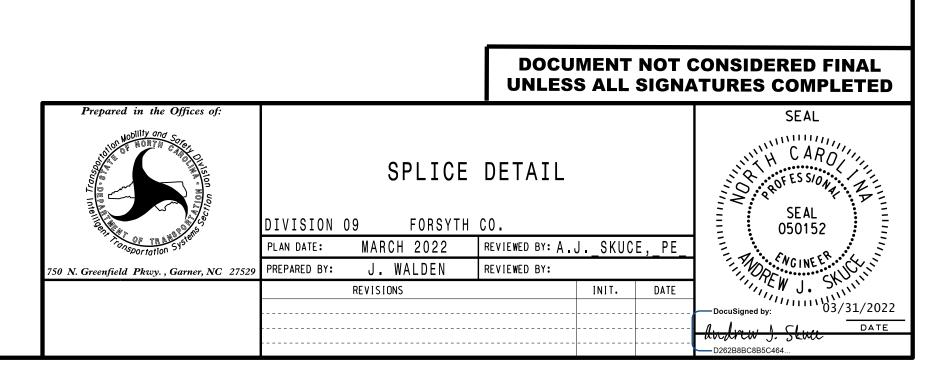


PROJECT REFERENCE NO. SHEET NO. U-2579AA ITS-22

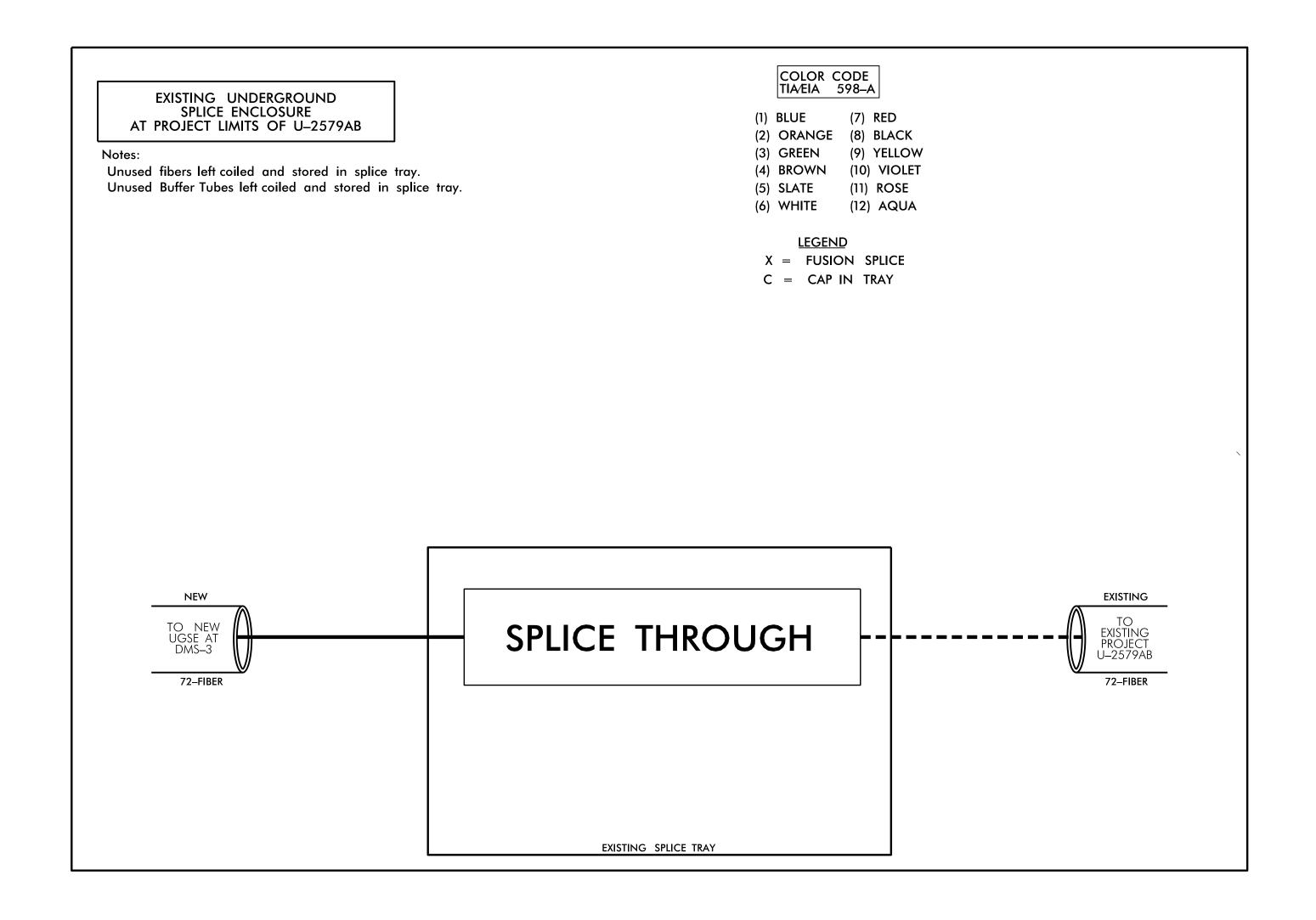
NEW HUB CABINET HUB–1 US 311 AT NORTHERN BELTWAY



- 1) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
- 2) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
 - 1) SPLICE LOCATION
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U-2579AA ITS-23



- 1) ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
- 2) INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
 - 1) SPLICE LOCATION
 - 2) DATE
 - 3) COMPANY NAME
 - 4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1–4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SPLICE DETAIL

DIVISION 09 FORSYTH CO.

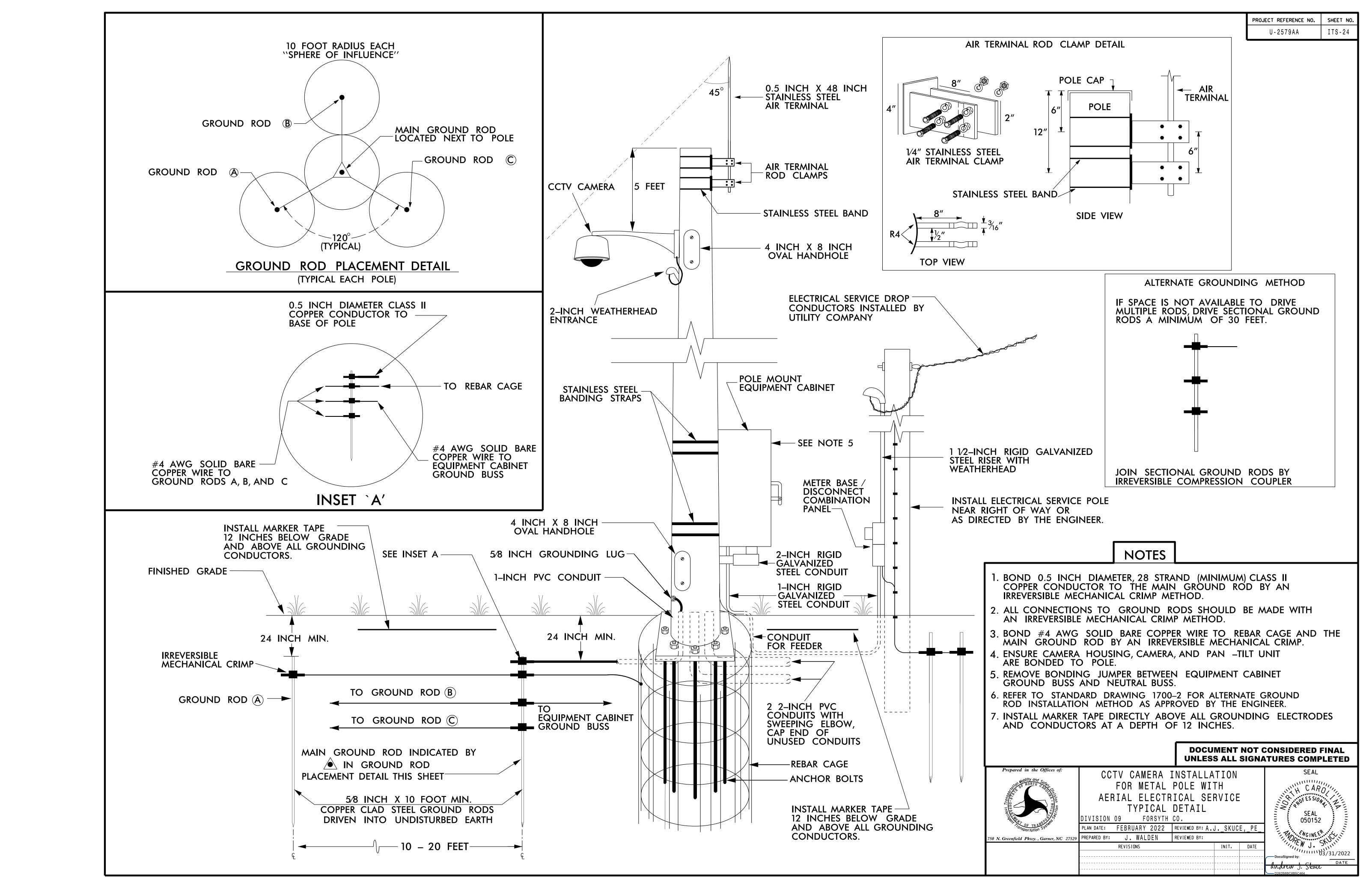
PLAN DATE: MARCH 2022 REVIEWED BY: A.J._SKUCE,_PE_
PREPARED BY: J. WALDEN REVIEWED BY:

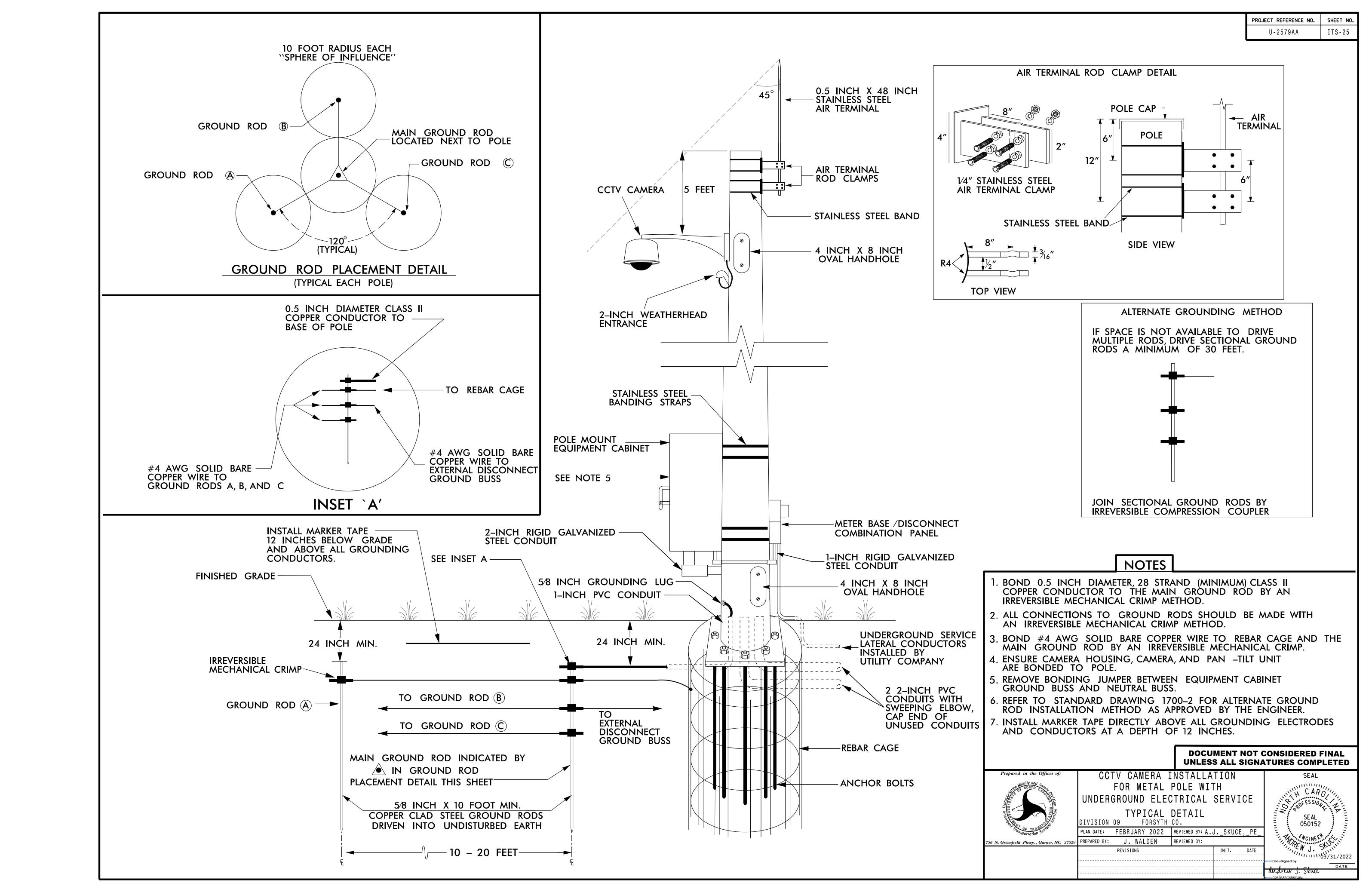
REVIEWED BY:
INIT. DATE

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050152

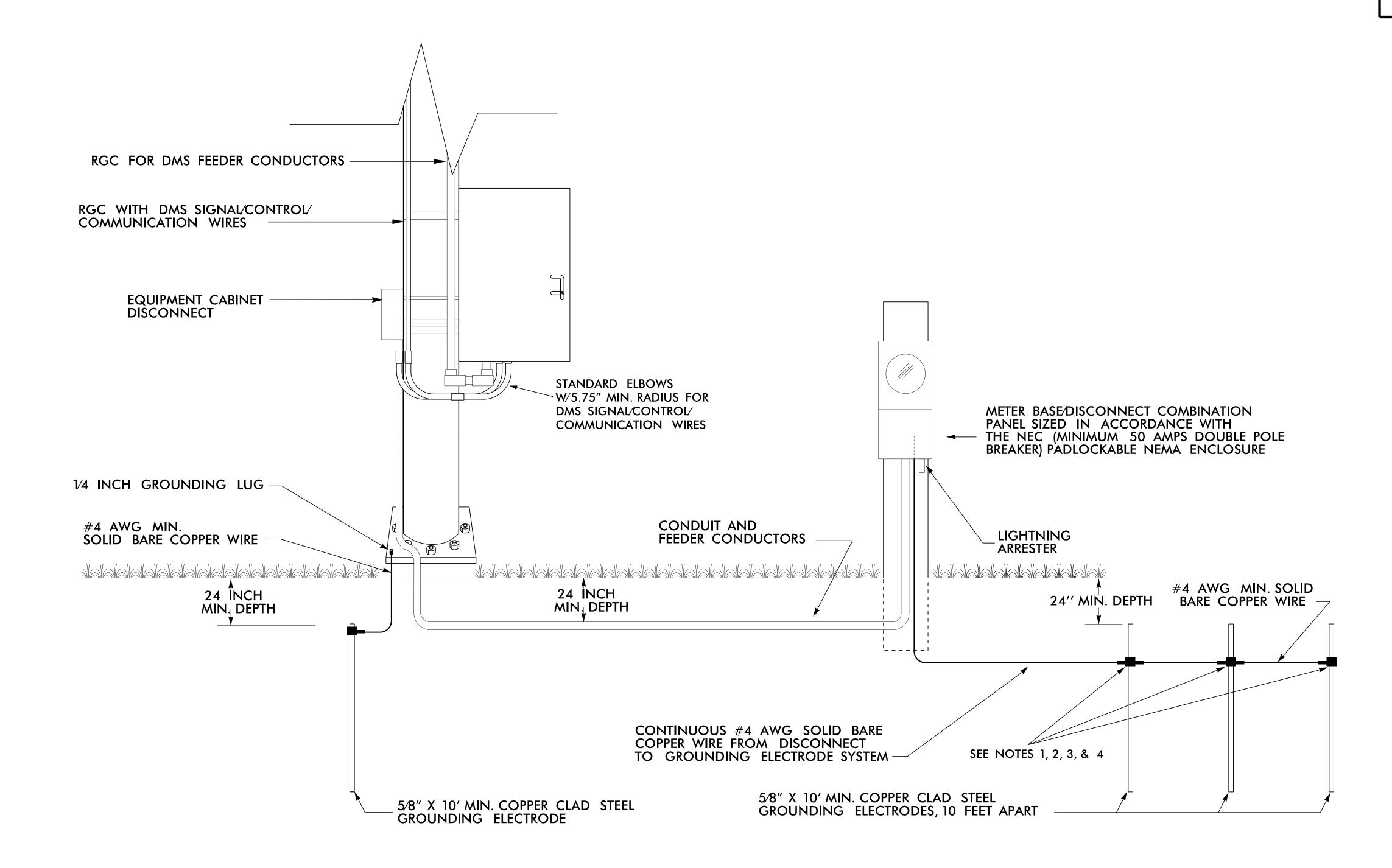
DocuSigned by:

D





U-2579AA ITS-26



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.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DYNAMIC MESSAGE SIGN WITH UNDERGROUND ELECTRICAL SERVICE TYPICAL DETAIL

DIVISION 09 FORSYTH CO.

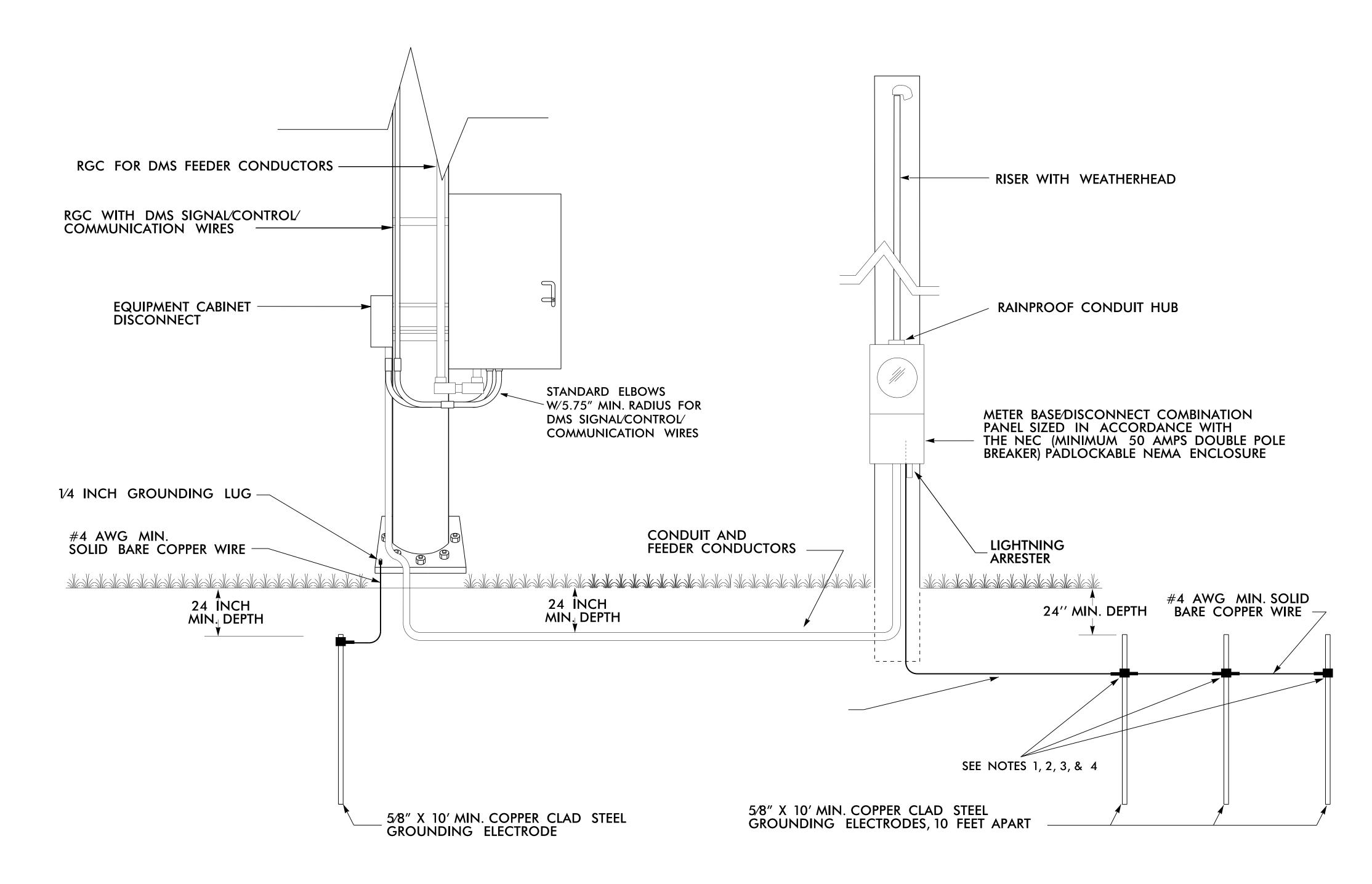
PLAN DATE: FEBRUARY 2022 REVIEWED BY: A.J._SKUCE,_PE_

PREPARED BY: J. WALDEN REVIEWED BY:

REVISIONS INIT. DATE



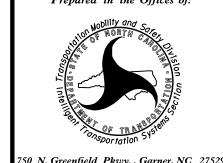
U-2579AA ITS-27



NOTES

- 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.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DYNAMIC MESSAGE SIGN WITH AERIAL ELECTRICAL SERVICE

TYPICAL DETAIL
DIVISION 09 FORSYTH CO.

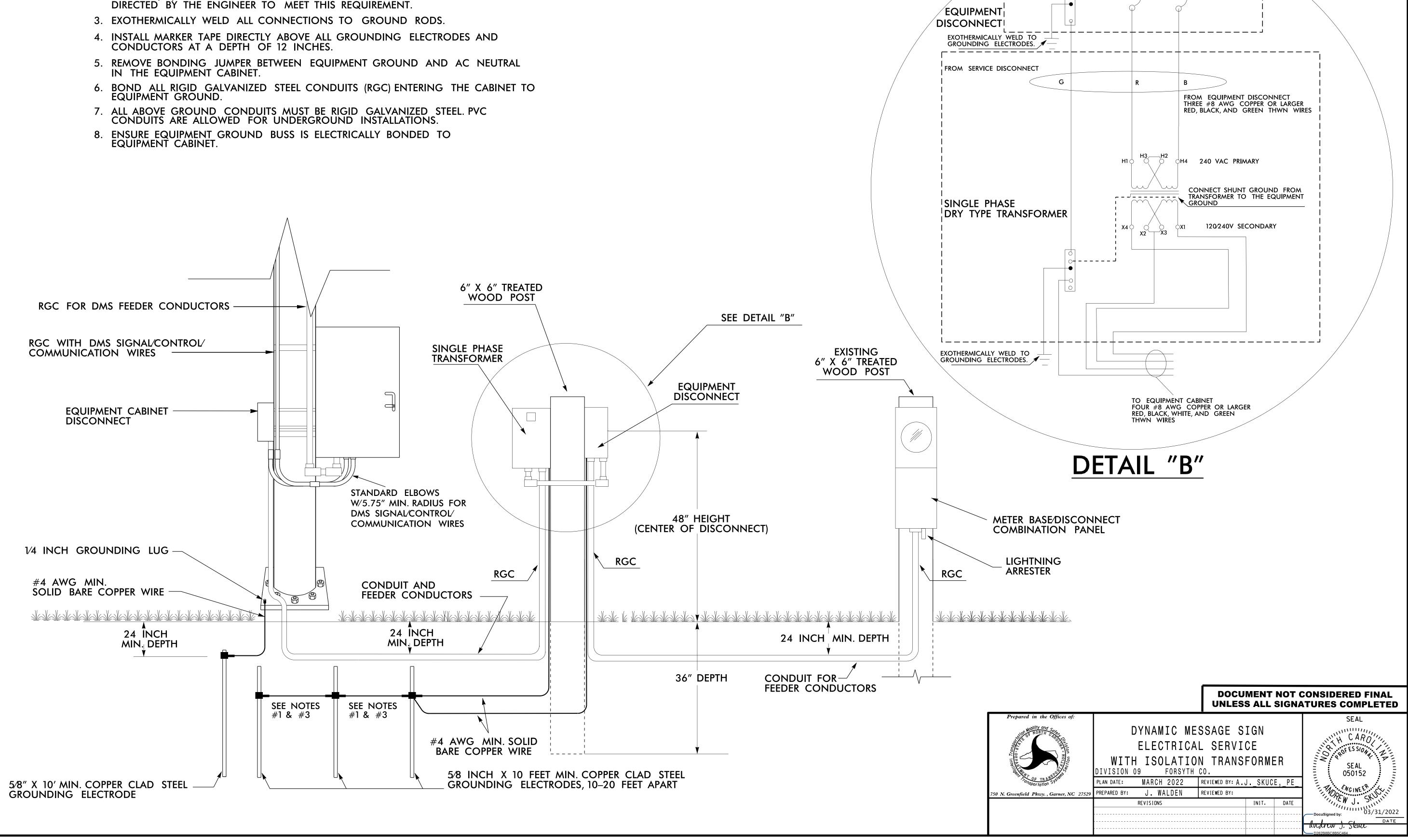
PLAN DATE: FEBRUARY 2022 REVIEWED BY: A.J._SKUCE,_PE_

PREPARED BY: J. WALDEN REVIEWED BY:

REVISIONS INIT. DATE

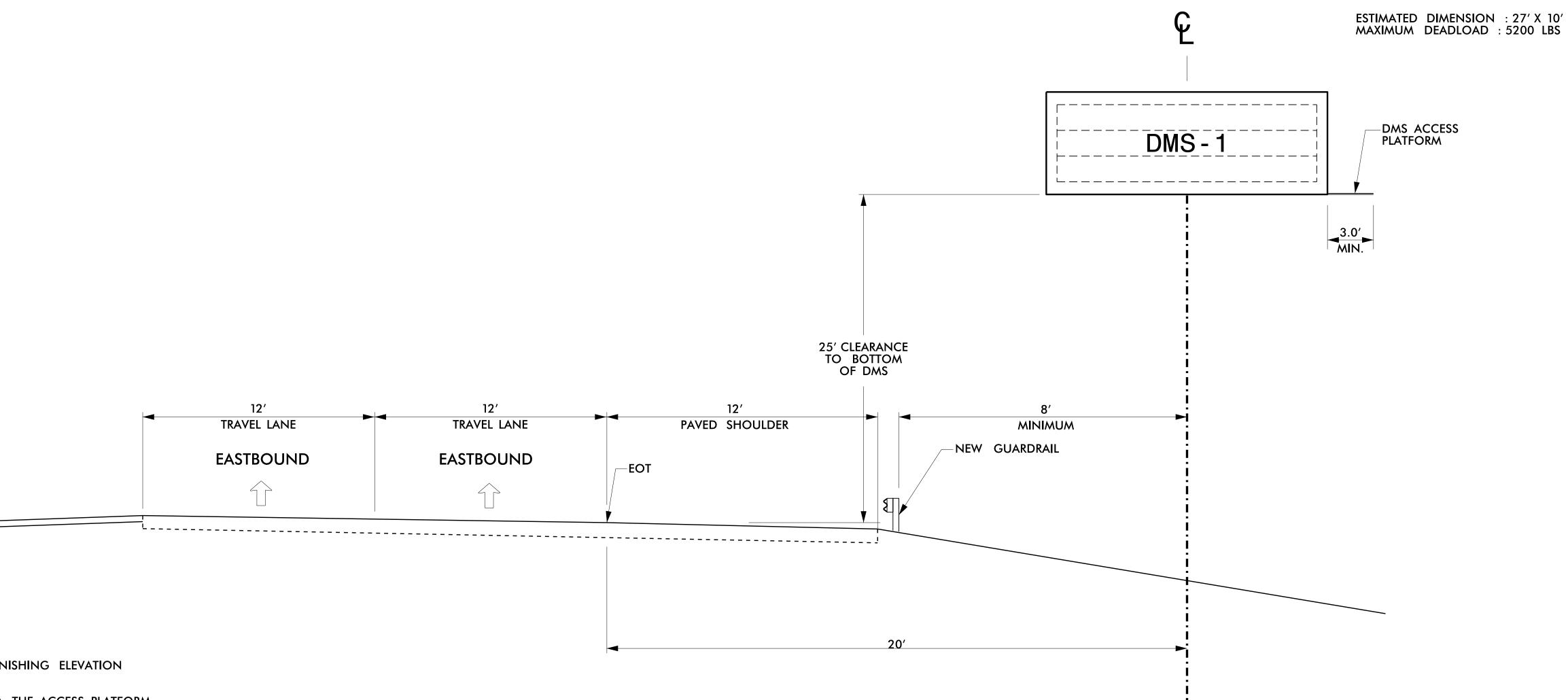
NOTES

- 1. INSTALL A MINIMUM OF THREE GROUND RODS SPACED A MINIMUM OF 10 FEET APART. ENSURE THAT EXISTING UNDERGROUND FACILITIES ARE NOT DAMAGED DURING INSTALLATION.
- TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHALL MEASURE TWENTY (20) OHMS OR LESS. ADDITIONAL GROUND RODS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.



PROJECT REFERENCE NO.

U-2579AA ITS-29



NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ELEVATION DRAWINGS FOR ENGINEER'S APPROVAL.
- 2. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM.
- 3. EQUIP THE LADDER WITH A SECURITY COVER (LADDER GUARD).
 START THE FIRST LADDER RUNG NO MORE THAN 18 INCHES ABOVE
 A CONCRETE LANDING PAD. DESIGN RUNGS ON 12 INCH CENTER—
 TO-CENTER TYPICAL SPACING.
- 4. INSTALL A CONCRETE LANDING PAD MEASURING A MINIMUM 4 INCHES DEEP, 24 INCHES WIDE, AND 36 INCHES LONG DIRECTLY BENEATH THE LADDER.
- 5. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
- 6. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 7. 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.
- 8. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.
- 9. DESIGN THE STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 90 MPH.
- 10. SEE ROADWAY PLANS FOR GUARDRAIL DETAILS.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



N/A

ELEVATION DETAIL

DIVISION 09 FORSYTH CO. WINSTON-SALEM
PLAN DATE: MARCH 2022 REVIEWED BY: A. SKUCE

PREPARED BY: J. WALDEN REVIEWED BY:

REVISIONS INIT. DATE

SEAL 050152

SEAL 050152

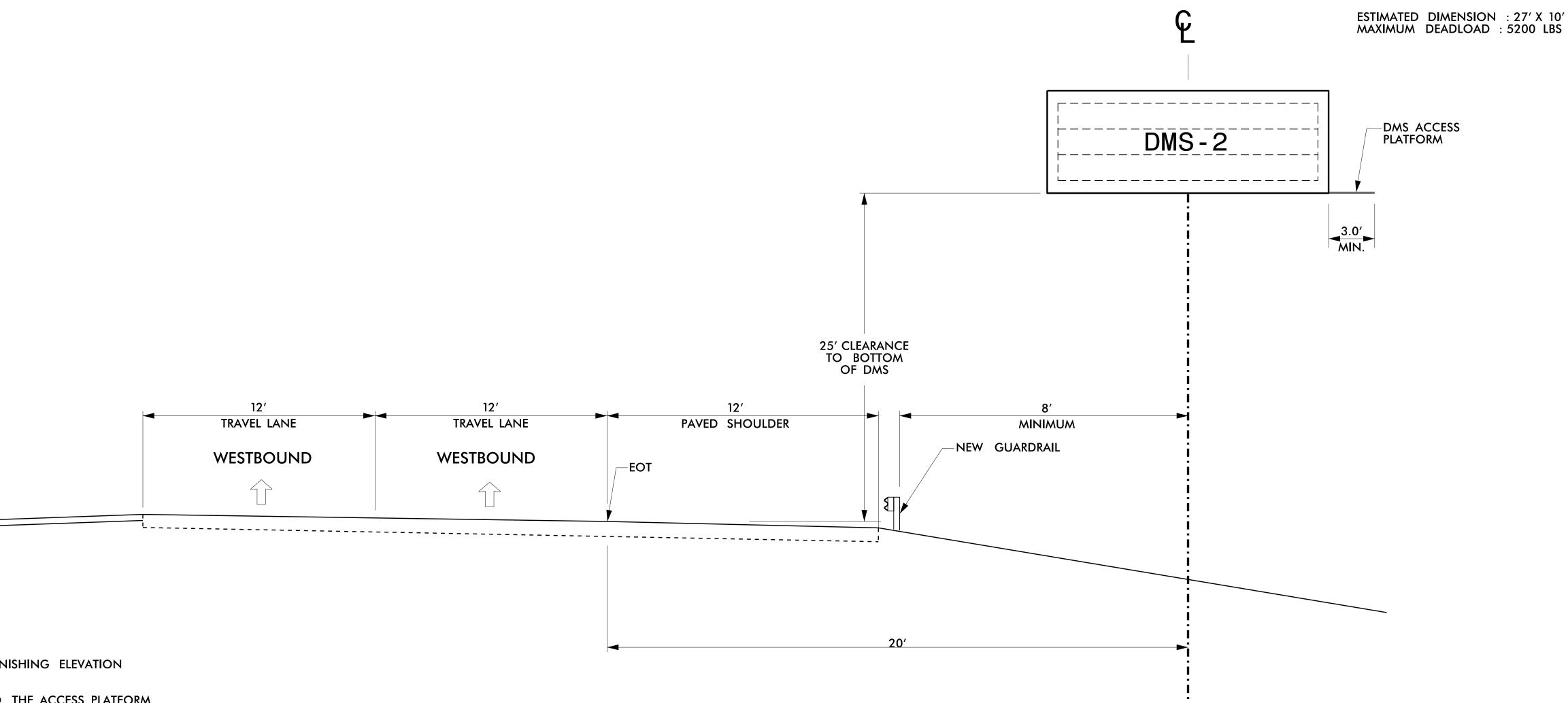
OSCINE STATE

Docussigned by: 03/31/2022

DATE

DATE

PROJECT REFERENCE NO. SHEET NO. U-2579AA ITS-30



NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ELEVATION DRAWINGS FOR ENGINEER'S APPROVAL.
- 2. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM.
- 3. EQUIP THE LADDER WITH A SECURITY COVER (LADDER GUARD).
 START THE FIRST LADDER RUNG NO MORE THAN 18 INCHES ABOVE
 A CONCRETE LANDING PAD. DESIGN RUNGS ON 12 INCH CENTER—
 TO-CENTER TYPICAL SPACING.
- 4. INSTALL A CONCRETE LANDING PAD MEASURING A MINIMUM 4 INCHES DEEP, 24 INCHES WIDE, AND 36 INCHES LONG DIRECTLY BENEATH THE LADDER.
- 5. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
- 6. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 7. 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.
- 8. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.
- 9. DESIGN THE STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 90 MPH.
- 10. SEE ROADWAY PLANS FOR GUARDRAIL DETAILS.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



N/A

ELEVATION DETAIL

DIVISION 09 FORSYTH CO. WINSTON-SALEM PLAN DATE: MARCH 2022 REVIEWED BY: A. SKUCE

PLAN DATE: MARCH 2022 REVIEWED BY: A. SKUCE
PREPARED BY: J. WALDEN REVIEWED BY:

REVISIONS INIT. DATE

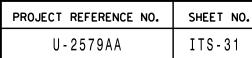
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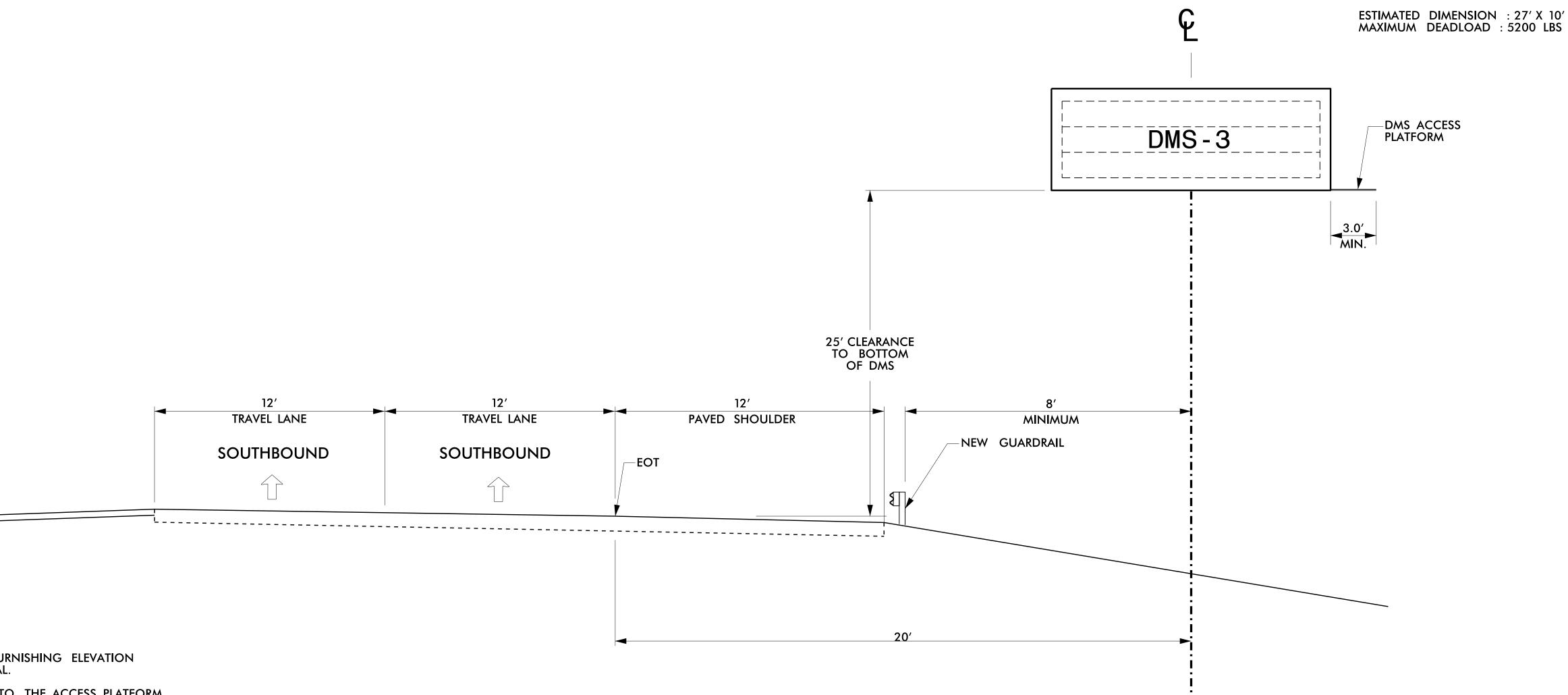
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DocuSigned by:

DATE

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NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ELEVATION DRAWINGS FOR ENGINEER'S APPROVAL.
- 2. PROVIDE A FIXED LADDER LEADING TO THE ACCESS PLATFORM.
- 3. EQUIP THE LADDER WITH A SECURITY COVER (LADDER GUARD).
 START THE FIRST LADDER RUNG NO MORE THAN 18 INCHES ABOVE
 A CONCRETE LANDING PAD. DESIGN RUNGS ON 12 INCH CENTER—
 TO-CENTER TYPICAL SPACING.
- 4. INSTALL A CONCRETE LANDING PAD MEASURING A MINIMUM 4 INCHES DEEP, 24 INCHES WIDE, AND 36 INCHES LONG DIRECTLY BENEATH THE LADDER.
- 5. USE ACTUAL DIMENSIONS AND WEIGHT OF THE DMS TO COMPLETE THE DESIGN OF THE DMS STRUCTURE.
- 6. FIELD VERIFY ALL FOOTING ELEVATIONS AND GROUND SLOPES AT THE FOOTING USING THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 7. 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.
- 8. VERIFY ALL UNDERGROUND UTILITY LOCATIONS BEFORE BEGINNING ANY UNDERGROUND WORK. DO NOT DAMAGE ANY EXISTING UTILITIES OR NCDOT CABLES DURING CONSTRUCTION.
- 9. DESIGN THE STRUCTURE AND DMS ENCLOSURE TO WITHSTAND WIND VELOCITIES OF 90 MPH.
- 10. SEE ROADWAY PLANS FOR GUARDRAIL DETAILS.





N/A

ELEVATION DETAIL

DIVISION 09 FORSYTH CO. WINSTON-SALEM
PLAN DATE: MARCH 2022 REVIEWED BY: A. SKUCE

PREPARED BY: J. WALDEN REVIEWED BY:

REVISIONS INIT. DATE

