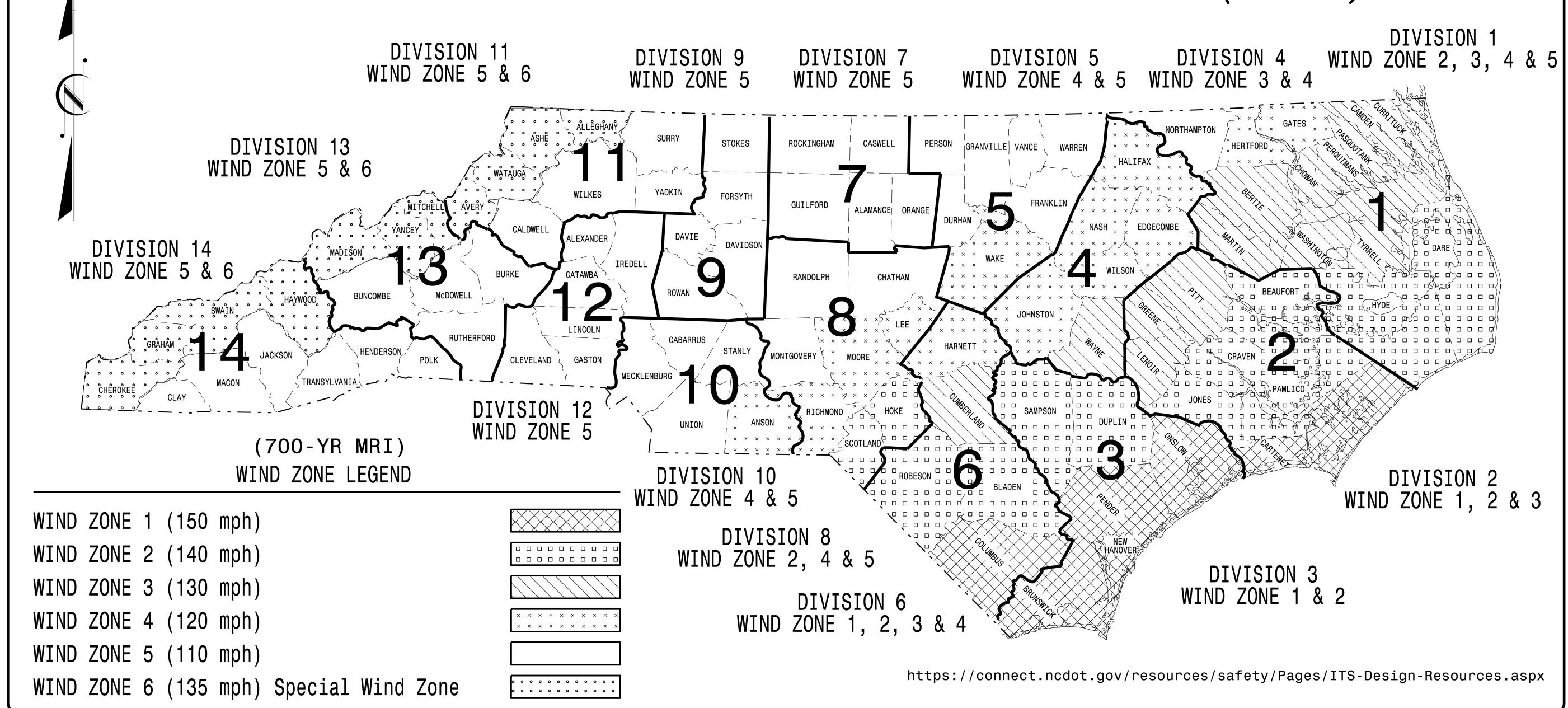
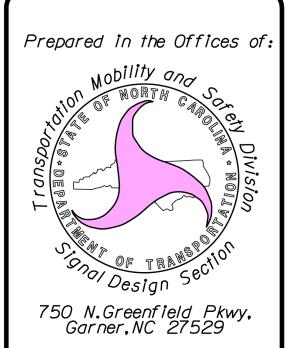
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS
 PROJECT I.D. NO.
 SHEET NO.

 R - 2577A
 Sig.M1A

STANDARD DRAWINGS FOR ALL METAL POLES (LRFD)





Designed in conformance
with the latest
2020 Interim to the
1st Edition 2015

AASHTO LRFD

Standard Specifications for Highway Signs, Luminaires, and Traffic Signals

DRAWING INDI NUMBER

Sig. M 9

INDEX OF PLANS DESCRIPTION

Sig. M	<i>1A</i>	Statewide Wind Zone Map (700-yr MRI)
Sig. M	1 B	Statewide Wind Zone Map (10-yr MRI)
Sig. M	2	Typical Fabrication Details-All Metal Poles
Sig. M	3	Typical Fabrication Details-Strain Poles
Sig. M	4	Typical Fabrication Details-Mast Arm Poles
Sig. M	5	Typical Fabrication Details-Mast Arm Connection
Sig. M	6	Typical Fabrication Details-Strain Pole Attachments
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Typical Fabrication Details-CCTV Camera Poles

MOBILITY AND SAFETY DIVISION – TRANSPORTATION SYSTEMS MANAGEMENT AND OPERATIONS UNIT

D.Y. ISHAK – STATE SIGNALS ENGINEER

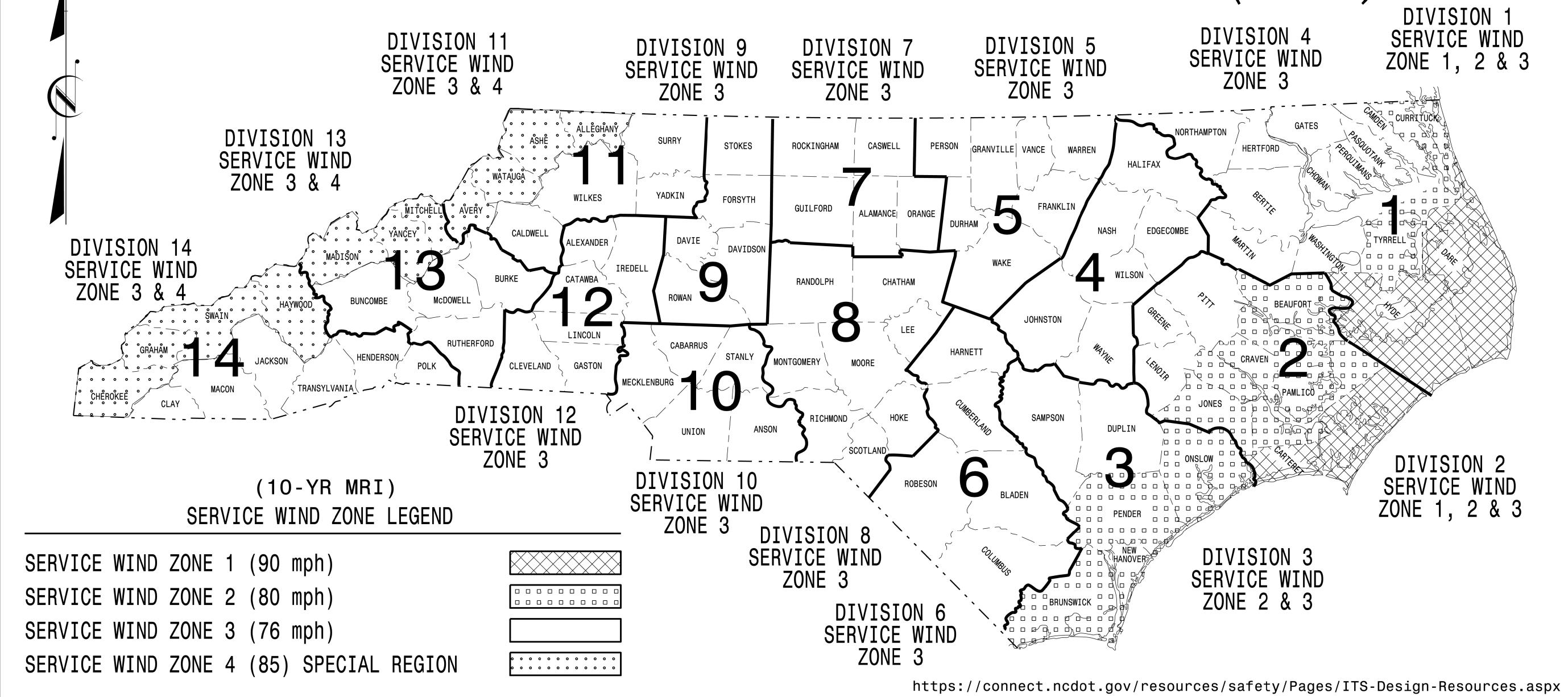
K. DURIGON, P.E. – ITS AND SIGNALS STRUCTURAL ENGINEER

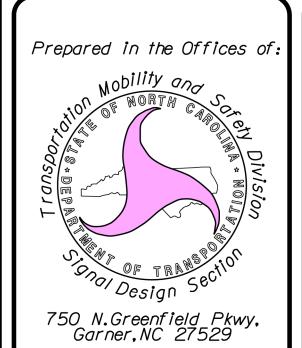
B. WALKER, P.E. – ITS AND SIGNALS STRUCTURAL ENGINEER



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS PROJECT I.D. NO. SHEET NO. R-2577A Sig.M1B

STANDARD DRAWINGS FOR ALL METAL POLES (LRFD)





Designed in conformance
with the latest
2020 Interim to the
1st Edition 2015

AASHTO LRFD

Standard Specifications for Highway Signs, Luminaires, and Traffic Signals

DRAWING INDEX OF PLANS NUMBER DESCRIPTION

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	8	Standard Strain Pole Foundation-All Soil Conditions

Typical Fabrication Details-CCTV Camera Poles

NCDOT CONTACTS:

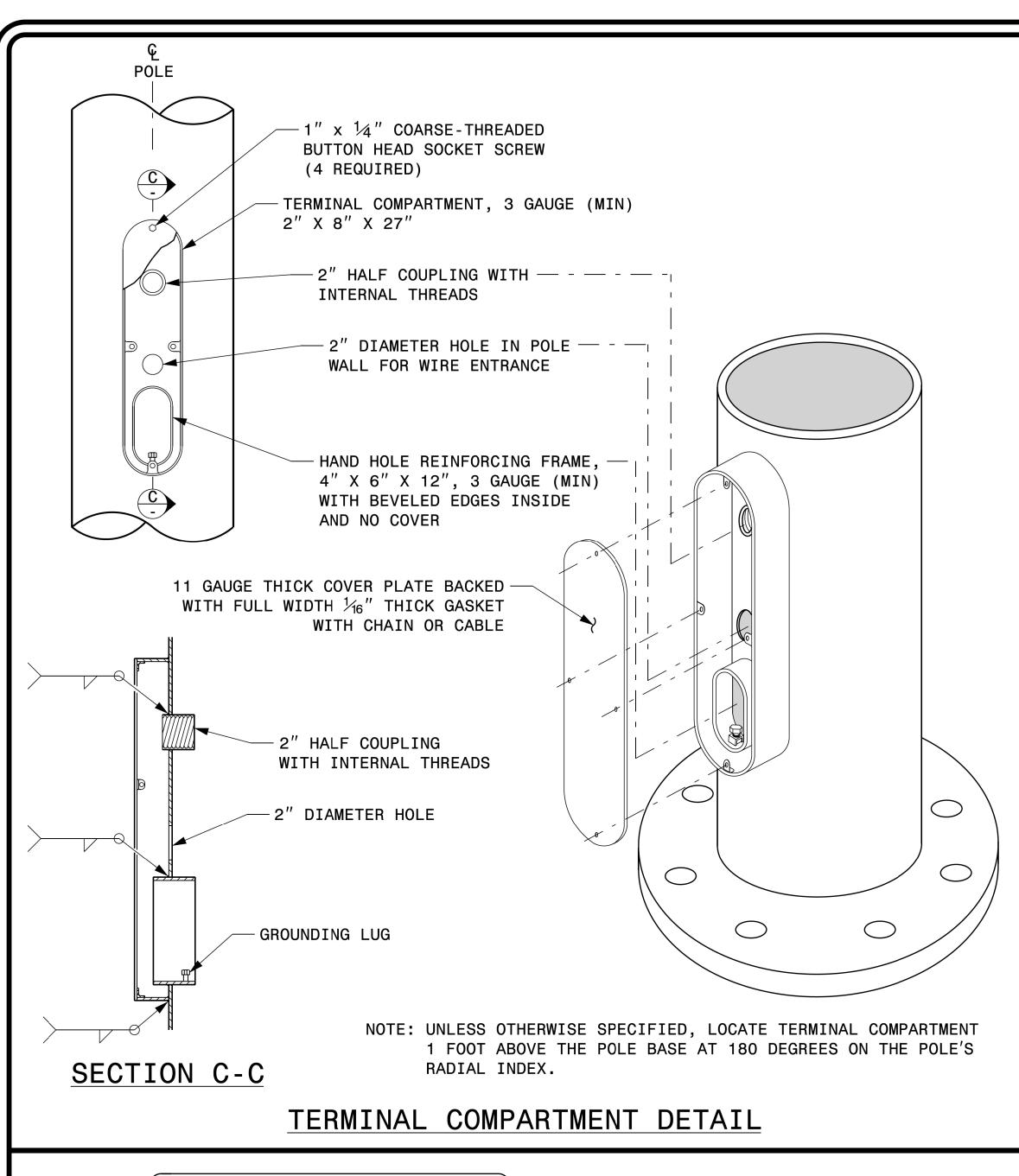
MOBILITY AND SAFETY DIVISION – TRANSPORTATION SYSTEMS MANAGEMENT AND OPERATIONS UNIT

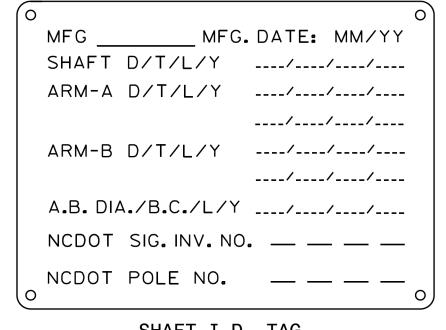
D.Y. ISHAK – STATE SIGNALS ENGINEER

K. DURIGON, P.E. – ITS AND SIGNALS STRUCTURAL ENGINEER

B. WALKER, P.E. – ITS AND SIGNALS STRUCTURAL ENGINEER







SHAFT I.D. TAG (PROVIDE ON SHAFT OF STRAIN POLES AND MAST ARM POLE SHAFT)

NOTES:

- 1. D = DIAMETER, T = THICKNESS, L = LENGTH, Y = YIELD STRENGTH
- 2. A.B. = ANCHOR BOLT
- 3. B.C. = BOLT CIRCLE OF ANCHOR BOLTS
- 4. IF STANDARD DESIGN, INCLUDE CASE NUMBER IN ADDITION TO POLE NUMBER ON "NCDOT POLE NO." LINE.
- 5. SIGNAL INV. NUMBER AND POLE I.D. NUMBER. SEE DRAWING M3 AND M4 FOR MOUNTING POSITIONS OF I.D. TAGS.

IDENTIFICATION TAG DETAILS

MFG _____MFG. DATE: MM/YY

SECTION D/T/L/Y ----/----

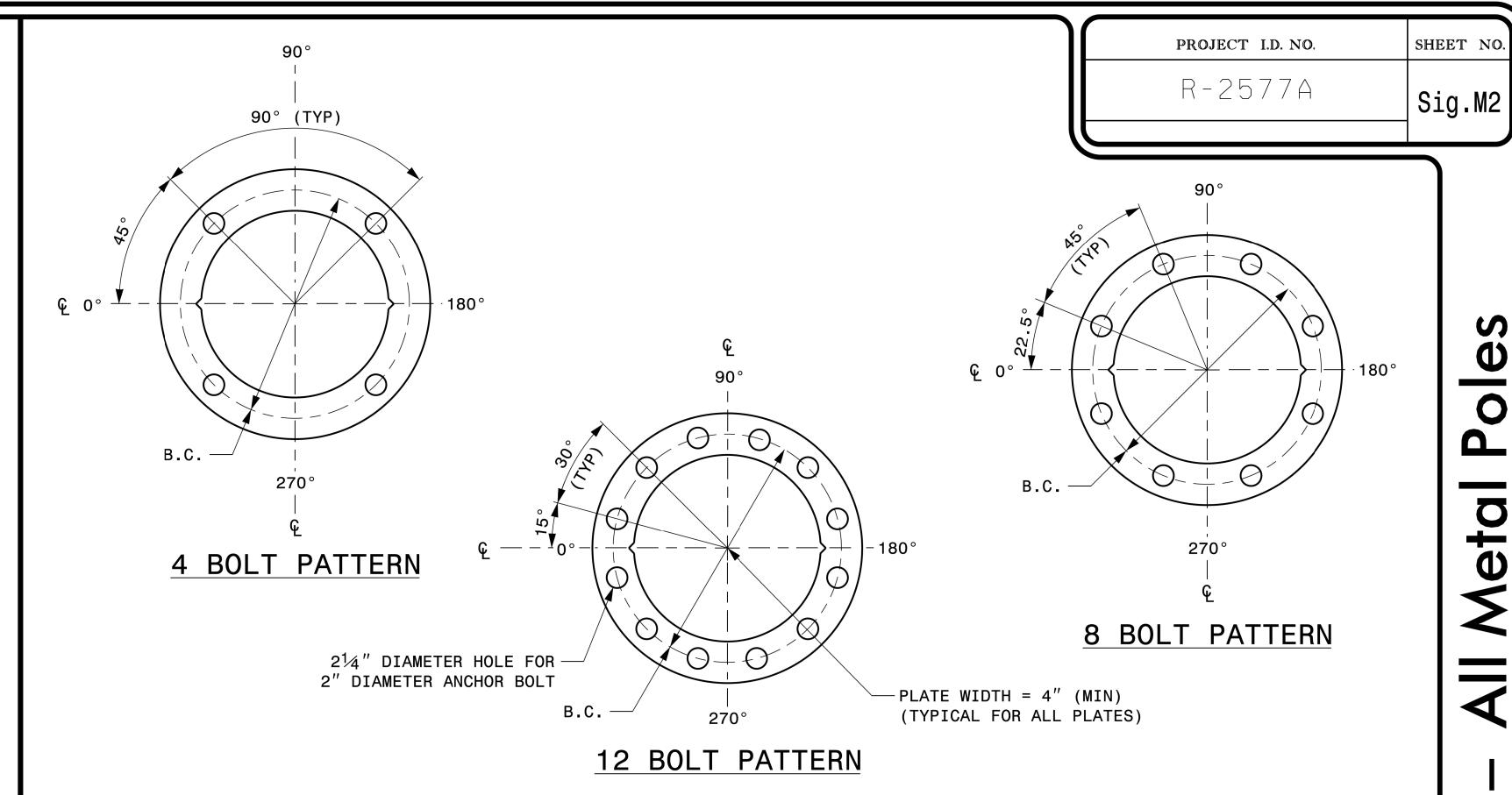
NCDOT SIG. INV. NO. — — — —

NCDOT POLE NO. — — — —

ARM I.D. TAG

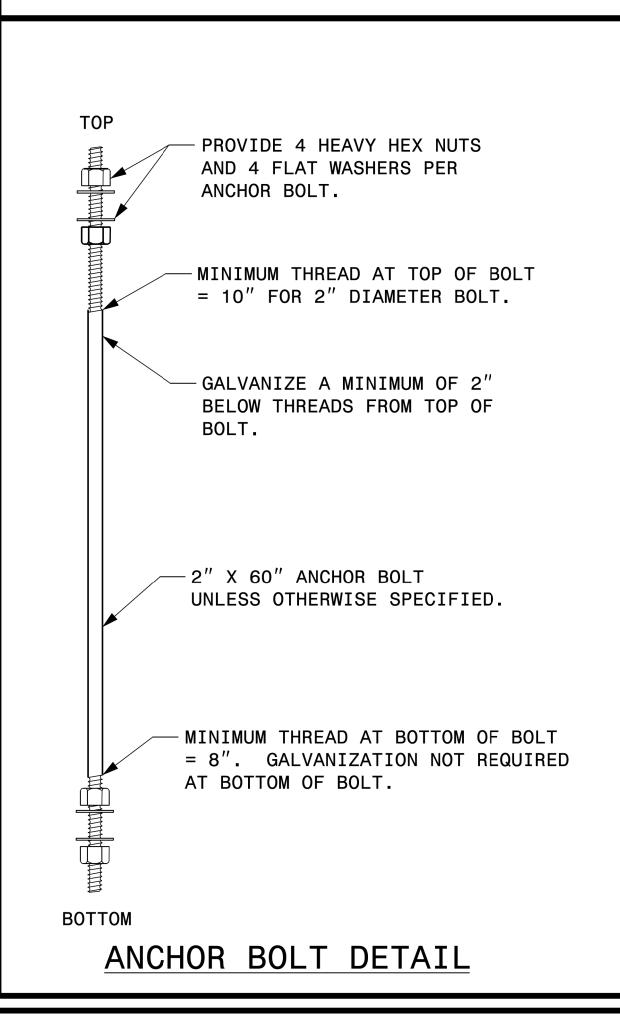
(PROVIDE ON EACH SECTION OF

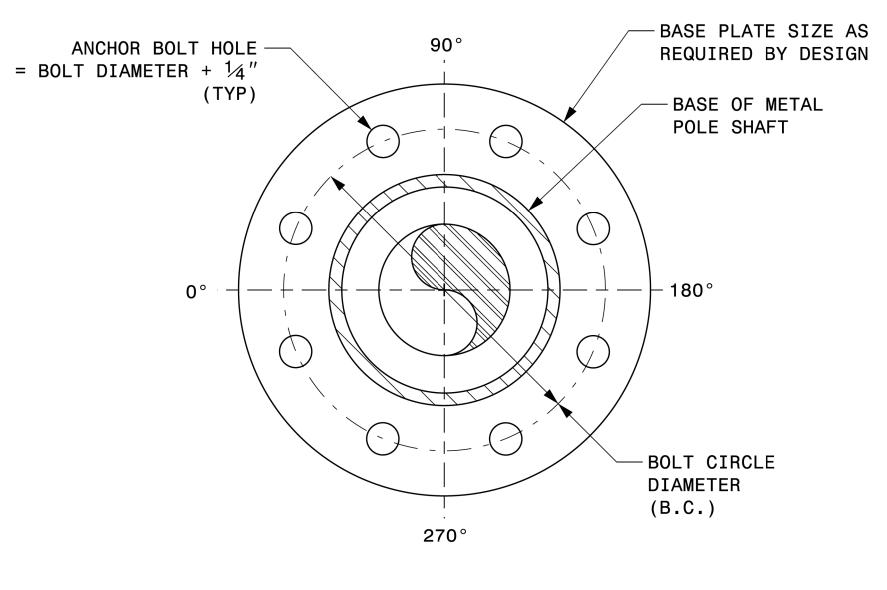
`A MULTI-SECTION MAST ARM)



CONSTRUCT TEMPLATES AND PLATES FROM $1/4^{\prime\prime}$ (MIN) THICK STEEL. GALVANIZING IS NOT REQUIRED.

BASE PLATE TEMPLATE AND ANCHOR BOLT LOCK PLATE DETAILS





NOTE: BASE PLATE MAY BE CIRCULAR, OCTAGONAL, SQUARE OR RECTANGULAR IN SHAPE.

TYPICAL BASE PLATE DETAIL

Prepared in the Offices of: Nobility one N	Typical Fabrication Details For All Metal Poles						
Onol Design Section	PLAN DATE: SEPTEMBER 2023 DESIGNED BY: C.F.ANDREWS						
750 N.Greenfield Pkwy.Garner.NC 27529	PREPARED BY: K.C. DURIGON REVIEWED BY: D.C. SARKAR						
O SCALE NA	REVISIONS INIT. DATE						
NONE							

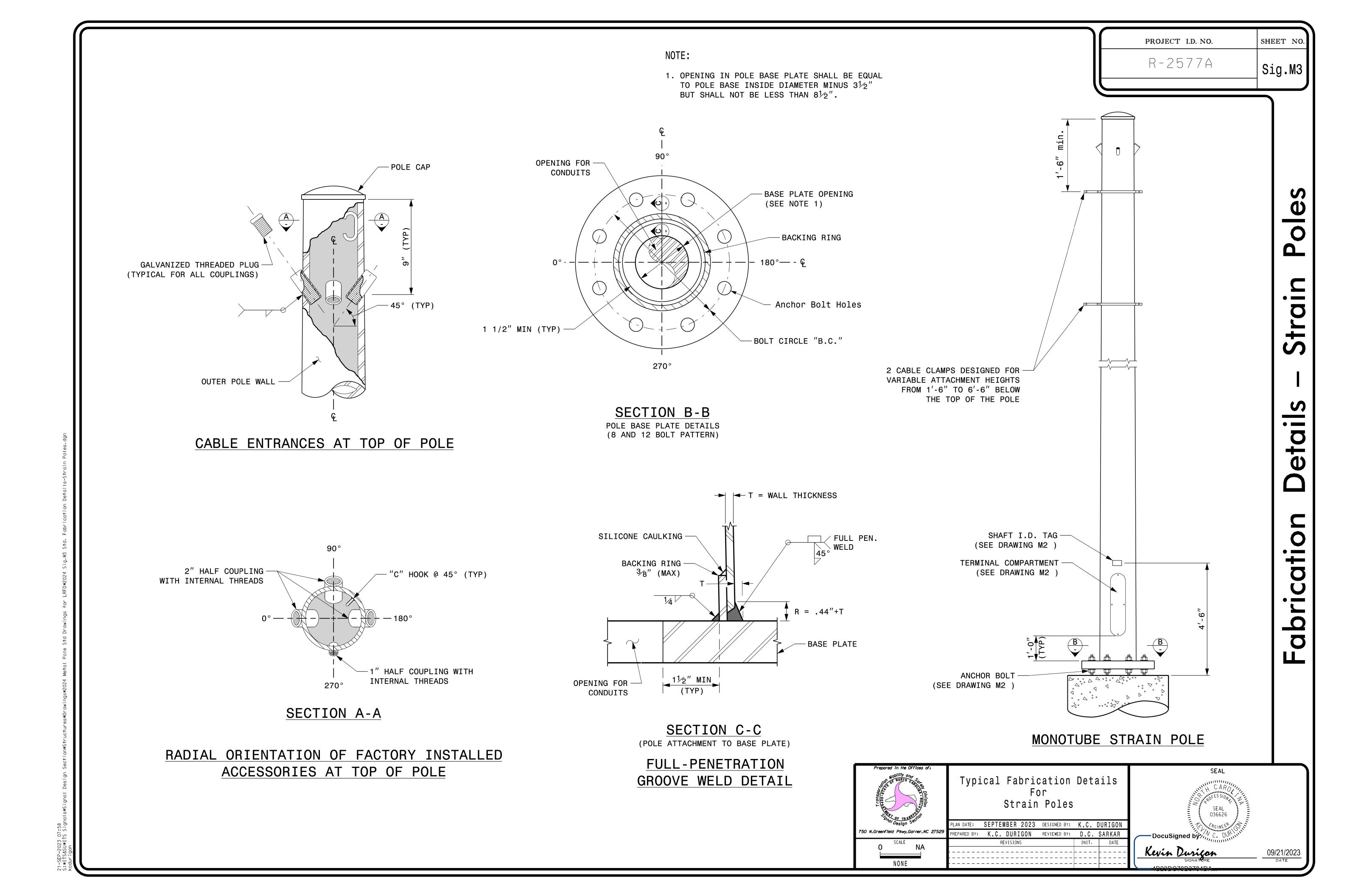
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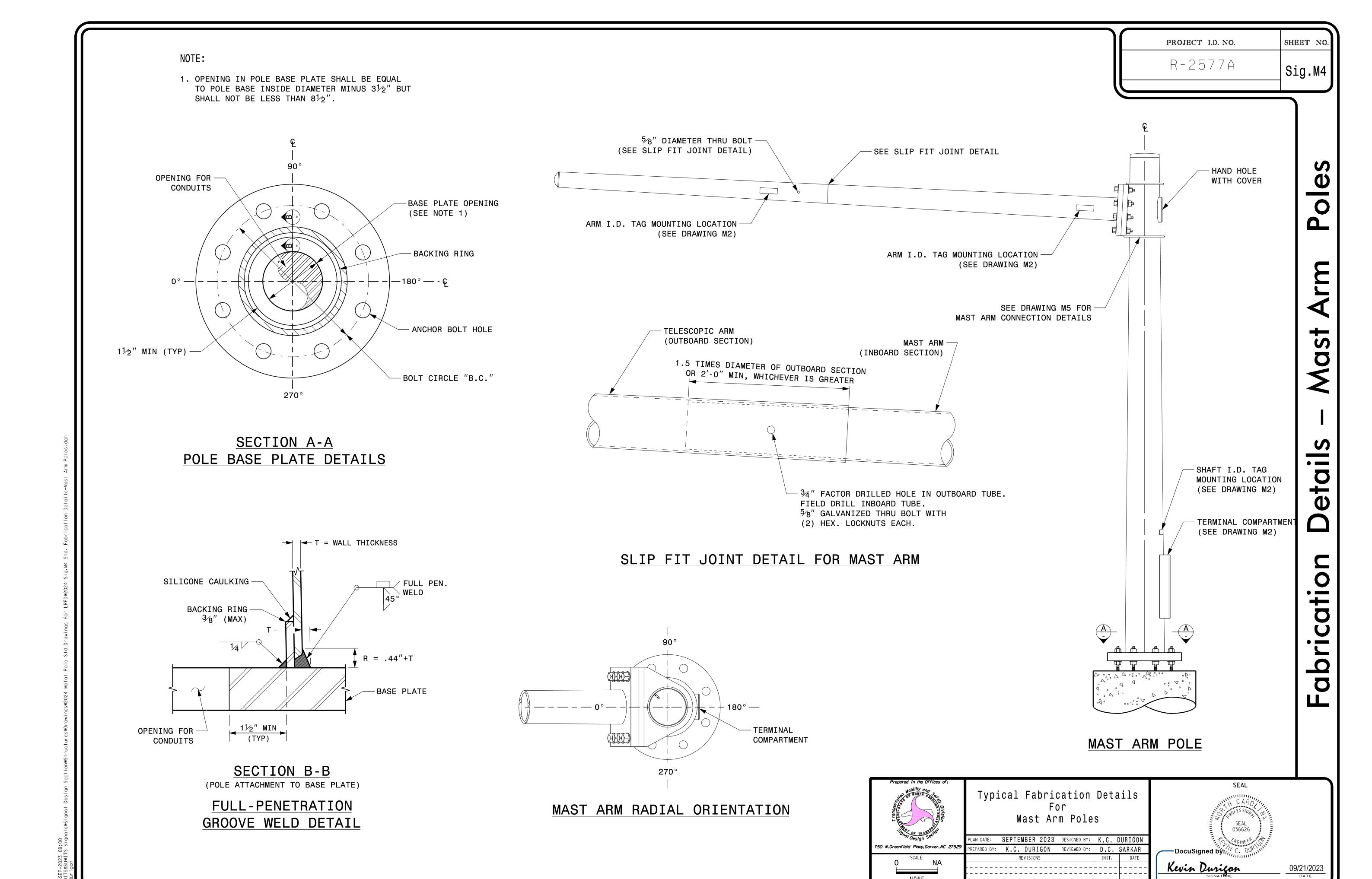
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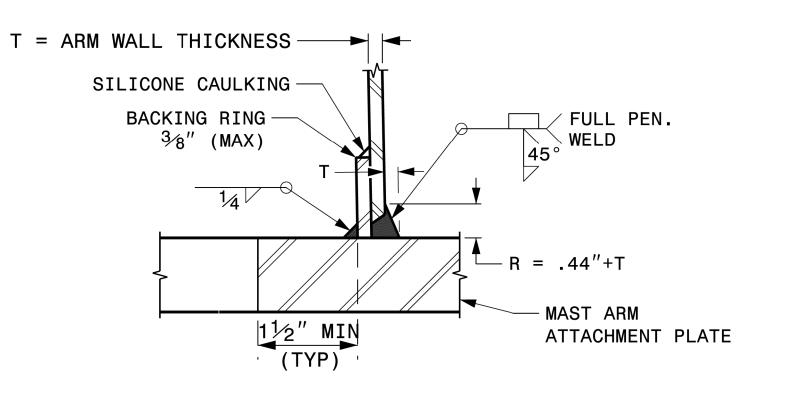
NONE

Mast

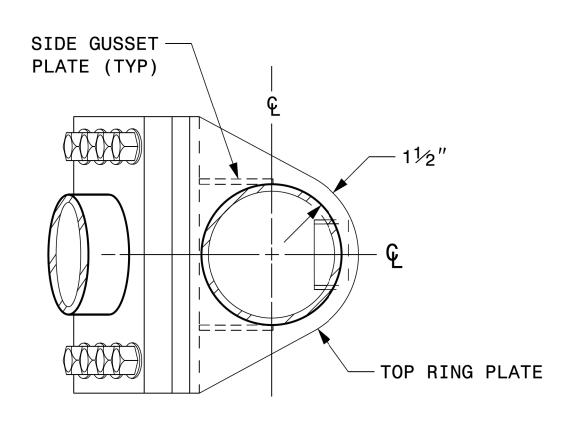
Fabrication

09/21/2023

WELDED RING STIFFENED MAST ARM CONNECTION



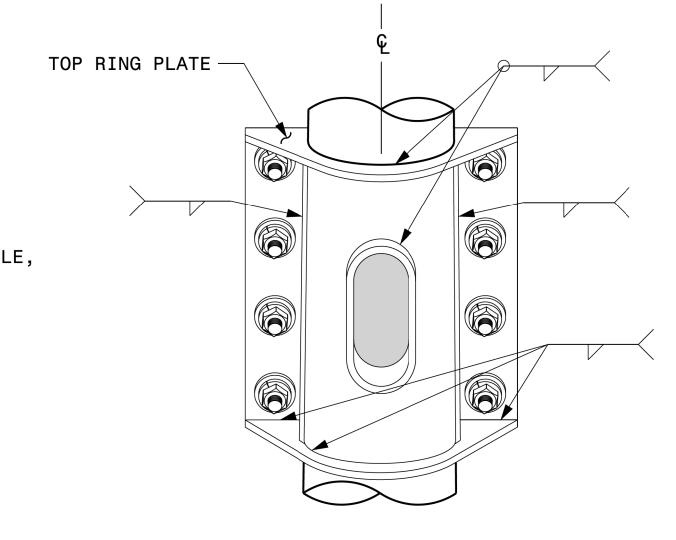
SECTION B-B FULL-PENETRATION GROOVE WELD DETAIL



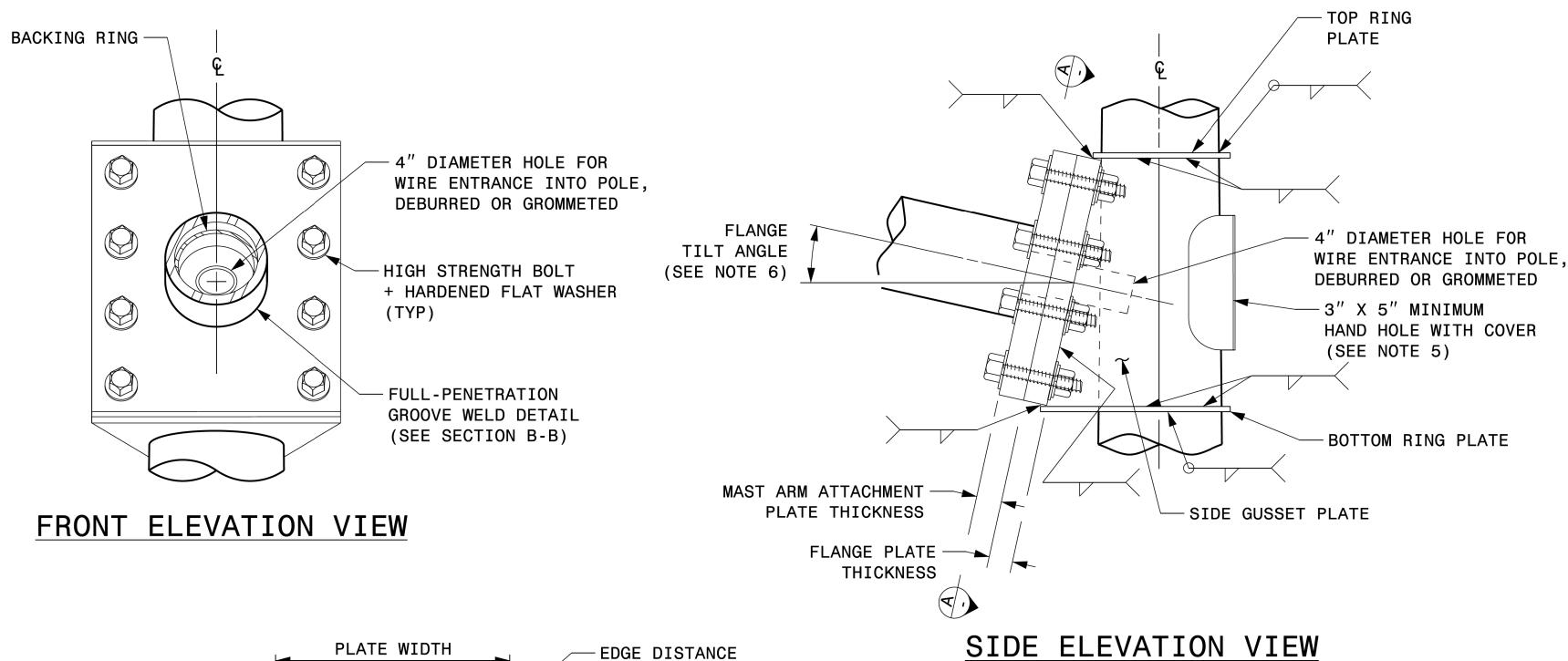
PLAN VIEW

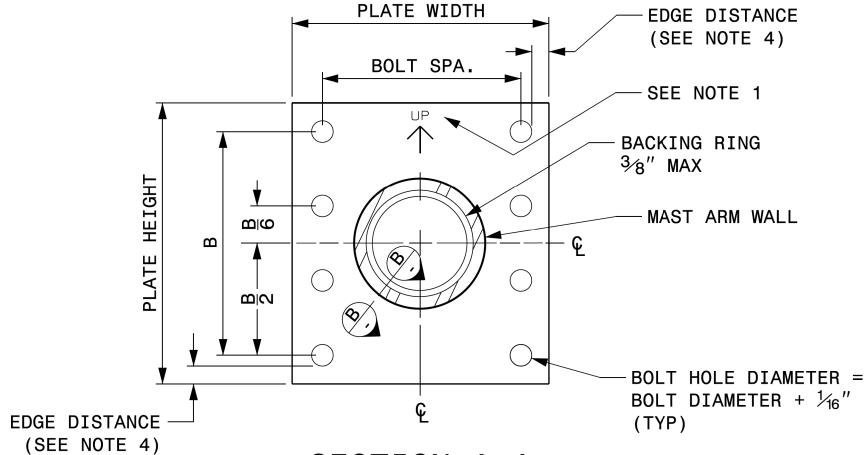
NOTES:

- 1. PROVIDE A PERMANENT MEANS OF IDENTIFICATION ABOVE THE MAST ARM TO INDICATE PROPER ATTACHMENT ORIENTATION OF THE MAST ARM.
- 2. DESIGNER WILL DETERMINE THE SIZE OF ALL STRUCTURAL COMPONENTS, PLATES, FASTENERS, AND WELDS SHOWN UNLESS THEY ARE ALREADY SPECIFIED.
- 3. FABRICATOR IS RESPONSIBLE FOR PROVIDING APPROPRIATE HOLES AT DRAINAGE POINTS TO DRAIN GALVANIZING MATERIALS.
- 4. FOR MINIMUM EDGE DISTANCE AND NOMINAL BOLT HOLE SIZE, FOLLOW THE LATEST AISC STEEL CONSTRUCTION MANUAL.
- 5. PROVIDE UPPER HANDHOLE AS NECESSARY WHEN SHAFT EXTENSIONS ARE REQUIRED FOR LUMINAIRE ARMS OR CAMERA. FOR POLES WITHOUT LUMINAIRES/CAMERA, WIRING CAN BE DONE THROUGH THE TOP OF POLE.
- 6. ALLOWABLE RANGE OF FLANGE TILT ANGLE WILL VARY FROM 0° TO AS REQUIRED.

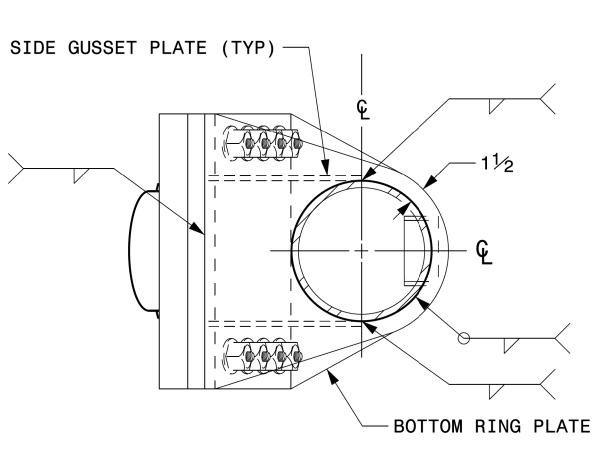


BACK ELEVATION VIEW

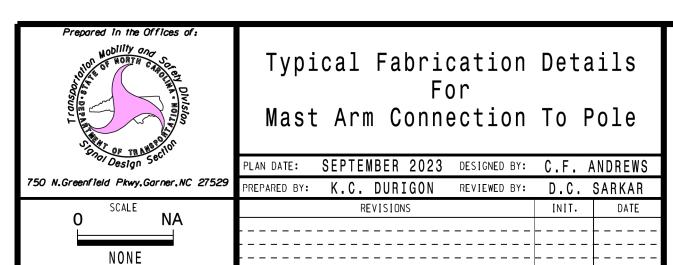


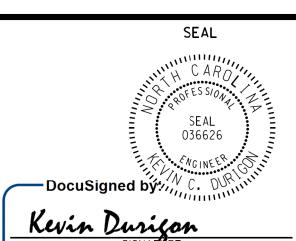


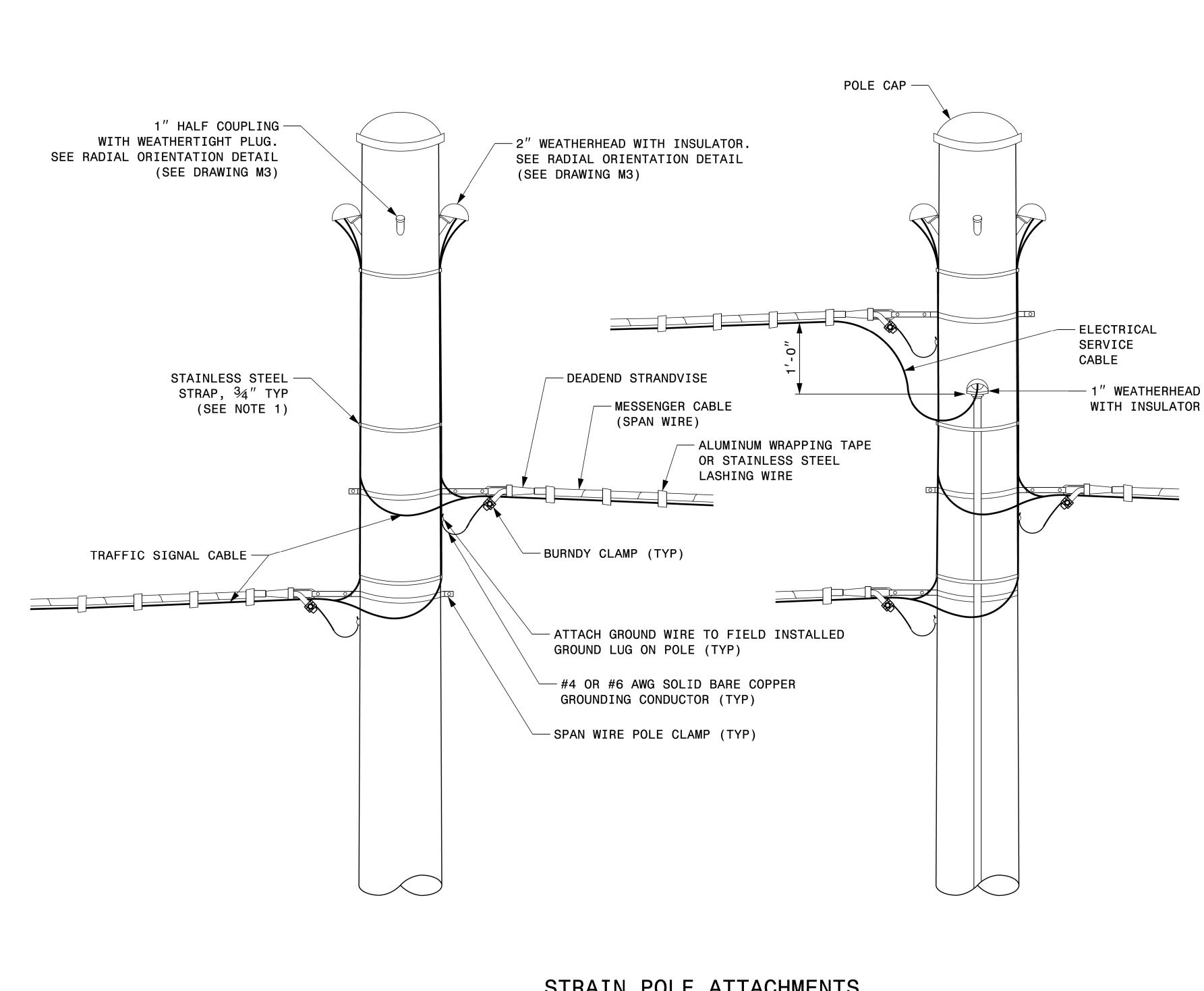
SECTION A-A MAST ARM ATTACHMENT PLATE



BOTTOM VIEW



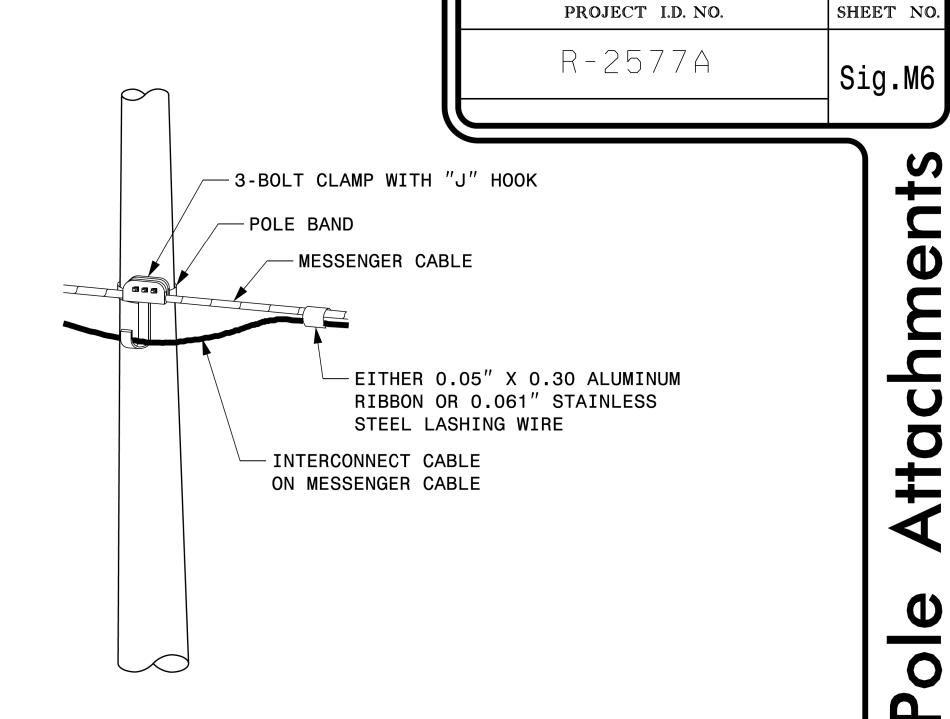




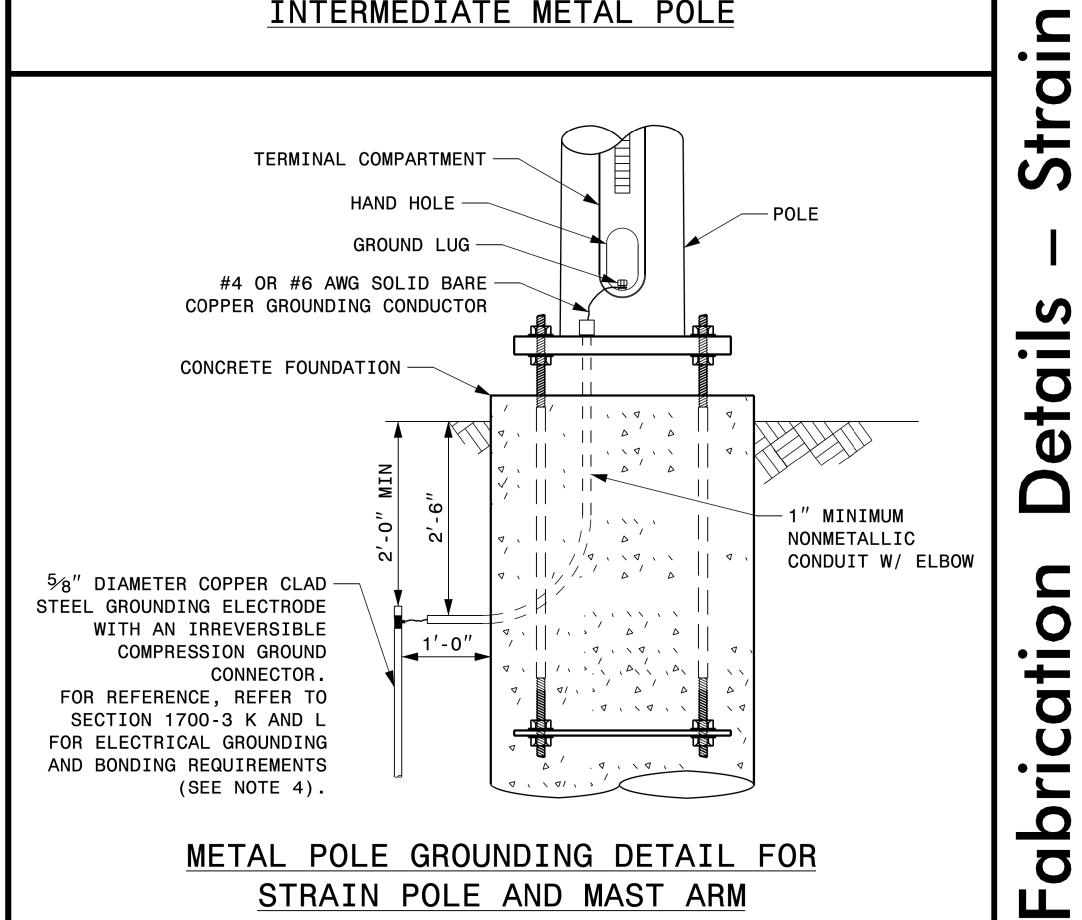
STRAIN POLE ATTACHMENTS

NOTES:

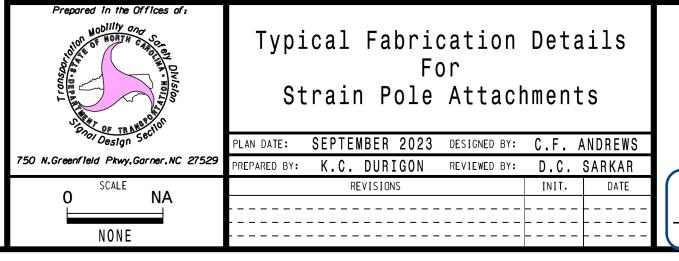
- 1. STRAP ALL SIGNAL CABLES TO THE SIDE OF THE POLE WITH $34^{\prime\prime}$ STAINLESS STEEL STRAPS WHEN THE DISTANCE BETWEEN SPAN WIRE ATTACHMENT CLAMP AND WEATHERHEADS EXCEEDS 3'-0".
- 2. PROVIDE MINIMUM TWO SPAN WIRE POLE CLAMPS PER POLE.
- 3. IT IS PROHIBITED TO ATTACH TWO SPAN WIRES AT ONE POLE CLAMP.
- 4. FOR GENERAL REQUIREMENTS, REFER TO NCDOT STANDARD SPECIFICATIONS FOR ROADWAY AND STRUCTURES, JANUARY 2024.

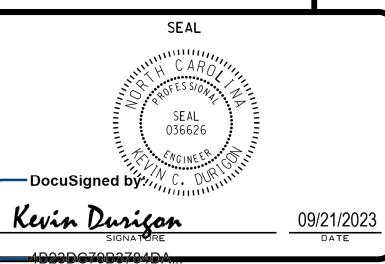


ATTACHMENT OF CABLE TO INTERMEDIATE METAL POLE



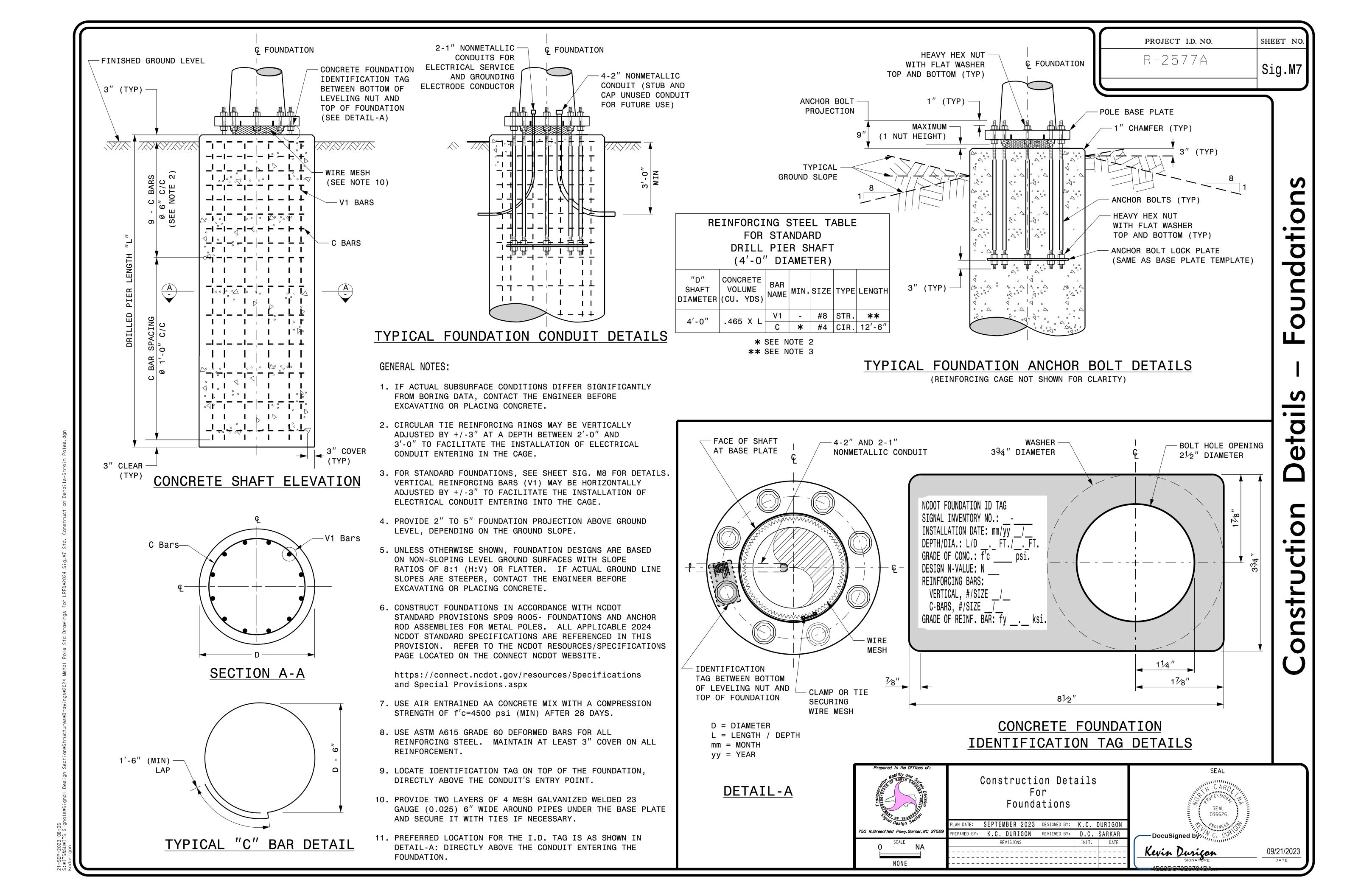
METAL POLE GROUNDING DETAIL FOR STRAIN POLE AND MAST ARM





Attachments

Pole



SOIL CONDITION

STANDARD STRAIN POLES				STANDARD FOUNDATIONS 48" Diameter Drilled Pier Length (L) – Feet						Reinforcement						
		Base	Reaction	ns at the	Pole Base	Clay					Longitudinal		Stirrups			
Case No.	Pole Height (Ft.)	Plate BC (In.)	Axial (kip)	Shear (kip)	Moment (ft–kip)	Medium N–Value 4–8	Stiff N–Value 9–15	Very Stiff N–Value 16–30		Loose N–Value 4–10	Medium N-Value 11-30	Dense N–Value >30	Bar Size (#)	Quantity (ea.)	Bar Size (#)	Spacing (in.)
S26L1	26	22	2	9	210	19.5	12.5	9	6.5	15.5	14.5	13	8	12	4	12
S26L2	26	23	2	10	240	19.5	12	9	6.5	15.5	14.5	13	8	12	4	12
S26L3	26	25	2	11	260	20.5	12	10	8	16	15	13	8	12	4	12
S30L1	30	22	2	9	230	19	11	9	7	15.5	14	12.5	8	12	4	12
S30L2	30	23	2	10	270	20	12	10	8	16	14.5	13	8	12	4	12
S30L3	30	25	2	11	290	21	12	10	8	17	15	13.5	8	12	4	12
S30H1	30	25	3	13	355	23	13	11	9	18	16.5	14.5	8	12	4	12
S30H2	30	29	3	15	405	25	14	11	9	19	17.5	15.5	8	14	4	12
S30H3	30	29	3	16	430	26	15	12	9	20	18	16	8	14	4	6
S35L1	35	22	3	8	260	19.5	12	10	8	15.5	14.5	13	8	12	4	12
S35L2	35	23	3	10	300	21	12	10	8	16.5	15	13.5	8	12	4	12
S35L3	35	25	3	10	320	21.5	13	10	8	17	15.5	14	8	12	4	12
S35H1	35	25	3	12	390	23.5	14	11	9	18	17	15	8	14	4	12
S35H2	35	29	4	14	460	26	15	12	9	20	18	16	8	14	4	6
S35H3	35	29	4	16	495	28.5	15	13.5	10	21.5	19	17	8	14	4	6

48" DIAMETER FOUNDATION CONCRETE VOLUME (CUBIC YARDS) = (0.465) x DRILLED PIER LENGTH

PROJECT I.D. NO. SHEET NO.

R-2577A

Sig.M8

onditions

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Strain

Standard

GENERAL NOTES:

- 1. VALUES SHOWN IN THE "REACTIONS AT THE POLE BASE" COLUMN REPRESENT THE MINIMUM ACCEPTABLE CAPACITY ALLOWED FOR DESIGN USING A COMBINED FORCE RATIO (CFR) OF 1.00.
- 2. USE CHAIRS AND SPACERS TO MAINTAIN PROPER CLEARANCE.
- 3. FOR FOUNDATION, ALWAYS USE AIR-ENTRAINED CONCRETE MIX.

FOUNDATION SELECTION:

- 1. PERFORM A STANDARD PENETRATION TEST AT EACH PROPOSED FOUNDATION SITE TO DETERMINE "N" VALUE.
- 2. SELECT THE APPROPRIATE WIND ZONE FROM M1 DRAWING.
- 3. SELECT THE SOIL TYPE (CLAY OR SAND) THAT BEST DESCRIBES THE SOIL CHARACTERISTICS.
- 4. GET THE APPROPRIATE STANDARD POLE CASE NUMBER FROM THE PLANS OR FROM THE ENGINEER.
- 5. SELECT THE APPROPRIATE COLUMN UNDER "STANDARD FOUNDATIONS" BASED ON SOIL TYPE AND "N" VALUE. SELECT THE APPROPRIATE ROW BASED ON THE POLE LOAD CASE.
- 6. THE FOUNDATION DEPTH IS THE VALUE SHOWN IN THE "STANDARD FOUNDATIONS" CATEGORY WHERE THE COLUMN AND THE ROW INTERSECT.
- 7. USE CONSTRUCTION PROCEDURES AND DESIGN METHODS PRESCRIBED BY FHWA-NHI-10-016 MANUAL FOR DRILLED SHAFTS.

Prepared In the Offices of:

NOBILITY and

NOBILITY OF TRANSPORT

TO N. Greenfield Pkwy, Garner, NC 27529

Standard Strain Pole Foundation for All Soil Conditions

PLAN DATE: SEPTEMBER 2023 DESIGNED BY: K.C. DURIGON
PREPARED BY: K.C. DURIGON REVIEWED BY: D.C. SARKAR
REVISIONS INIT. DATE

09/21/2023

PROJECT I.D. NO. SHEET NO R-2577A Sig.M9

et Fabrication

SEAL

09/21/2023

−DocuSigned bý:

Kevin Durison

NOTES:

- 1. THIS DRAWING PROVIDES BASIC DETAILS FOR CCTV POLES. PROJECT REQUIREMENTS MAY REQUIRE SPECIAL FACTORY PREPS THAT ARE NOT SHOWN ON THESE DETAILS.
- 2. DETAILS FOR INTERNAL CAMERA LOWERING SYSTEMS ARE NOT SHOWN.
- 3. POLE MOUNTED CABINETS MAY REQUIRE MODIFICATIONS TO THE LOWER HANDHOLE OPENING TO MOUNT CABINETS. 4" X 8" REINFORCED HANDHOLES ARE ACCEPTABLE OPTIONS, AND MAY BE PREFERRED.
- 4. OPENING IN POLE BASE SHALL BE EQUAL TO POLE BASE INSIDE DIAMETER MINUS 31/2" BUT SHALL NOT BE LESS THAN $8\frac{1}{2}$ ".
- 5. USE COMPACT SECTION CRITERIA D/T RATIO PER AASHTO LTS-LRFD 1ST EDITION SECTION 5.7.2.

Typical Fabrication Details

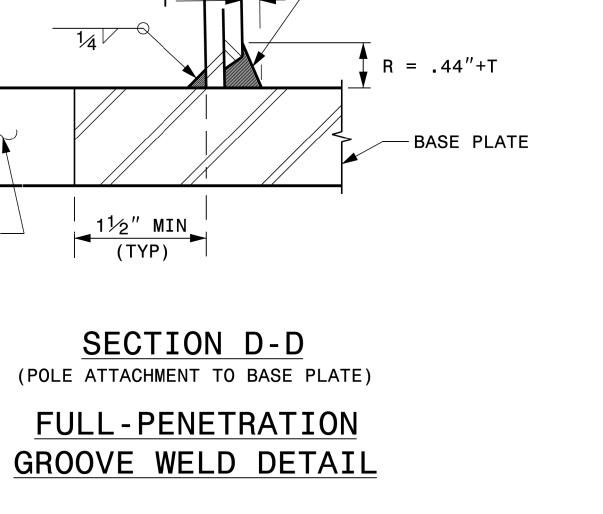
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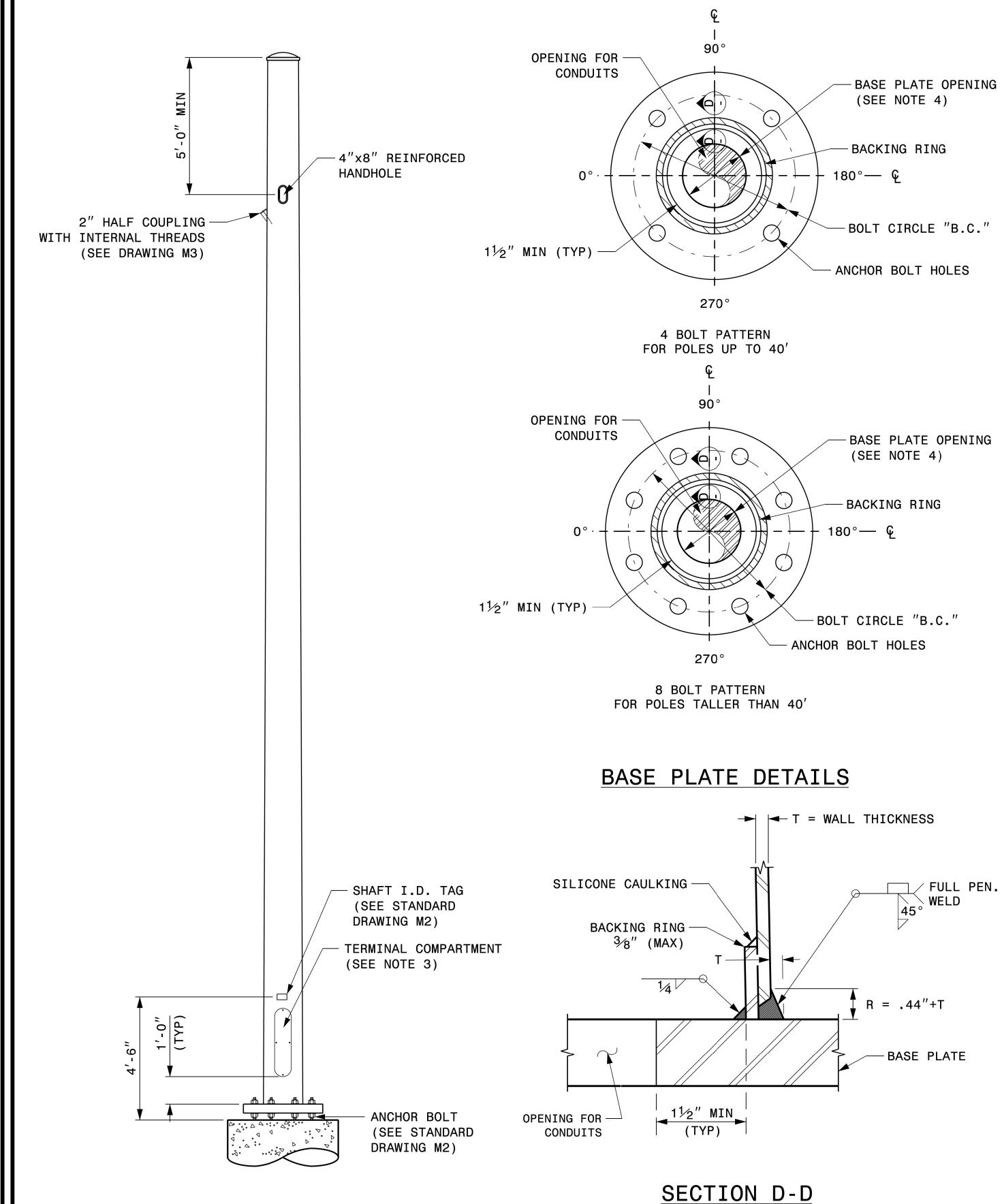
CCTV Poles

PLAN DATE: SEPTEMBER 2023 DESIGNED BY: K.C. DURIGON

750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: K.C. DURIGON REVIEWED BY: C.F. ANDREWS

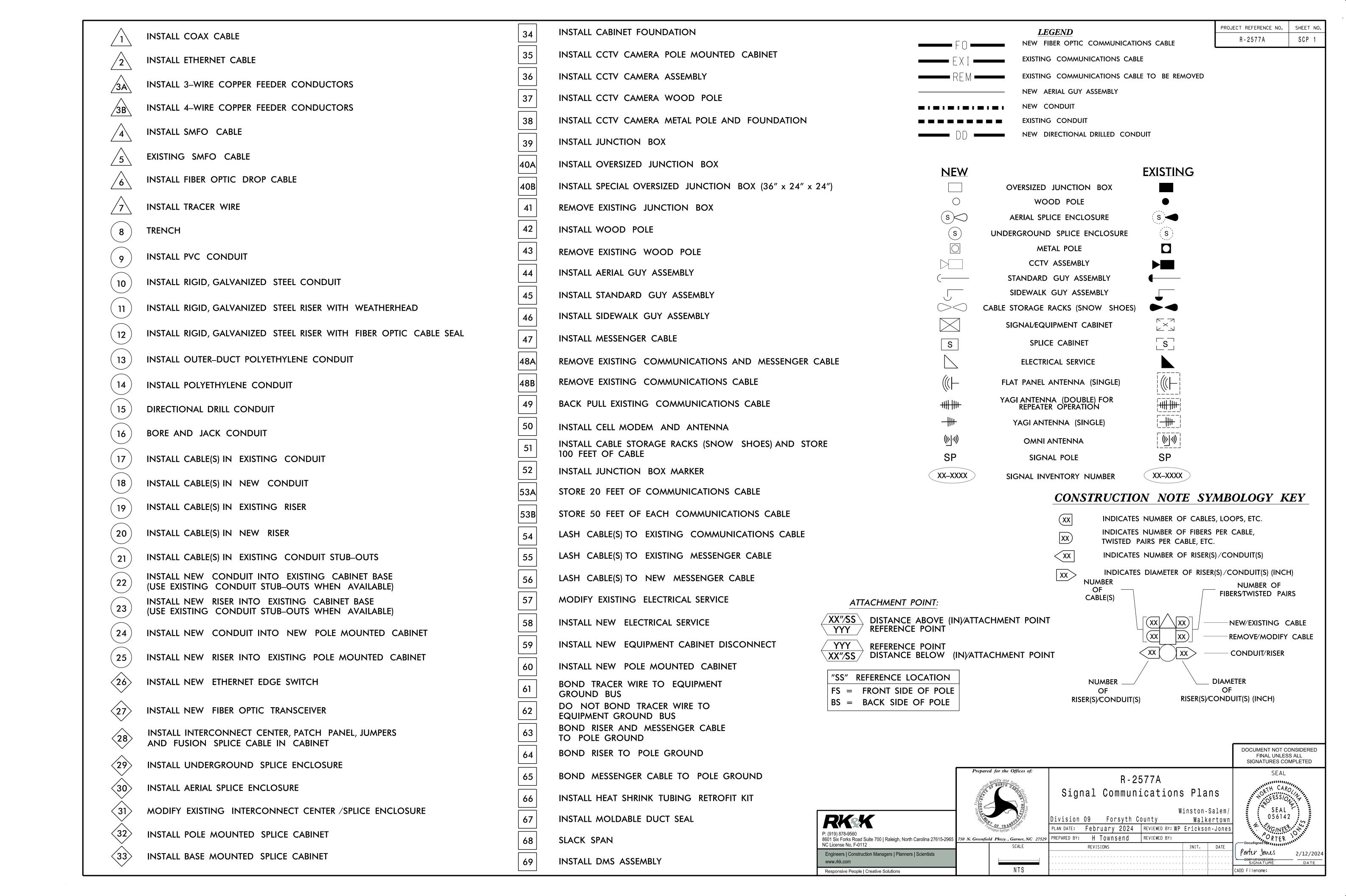
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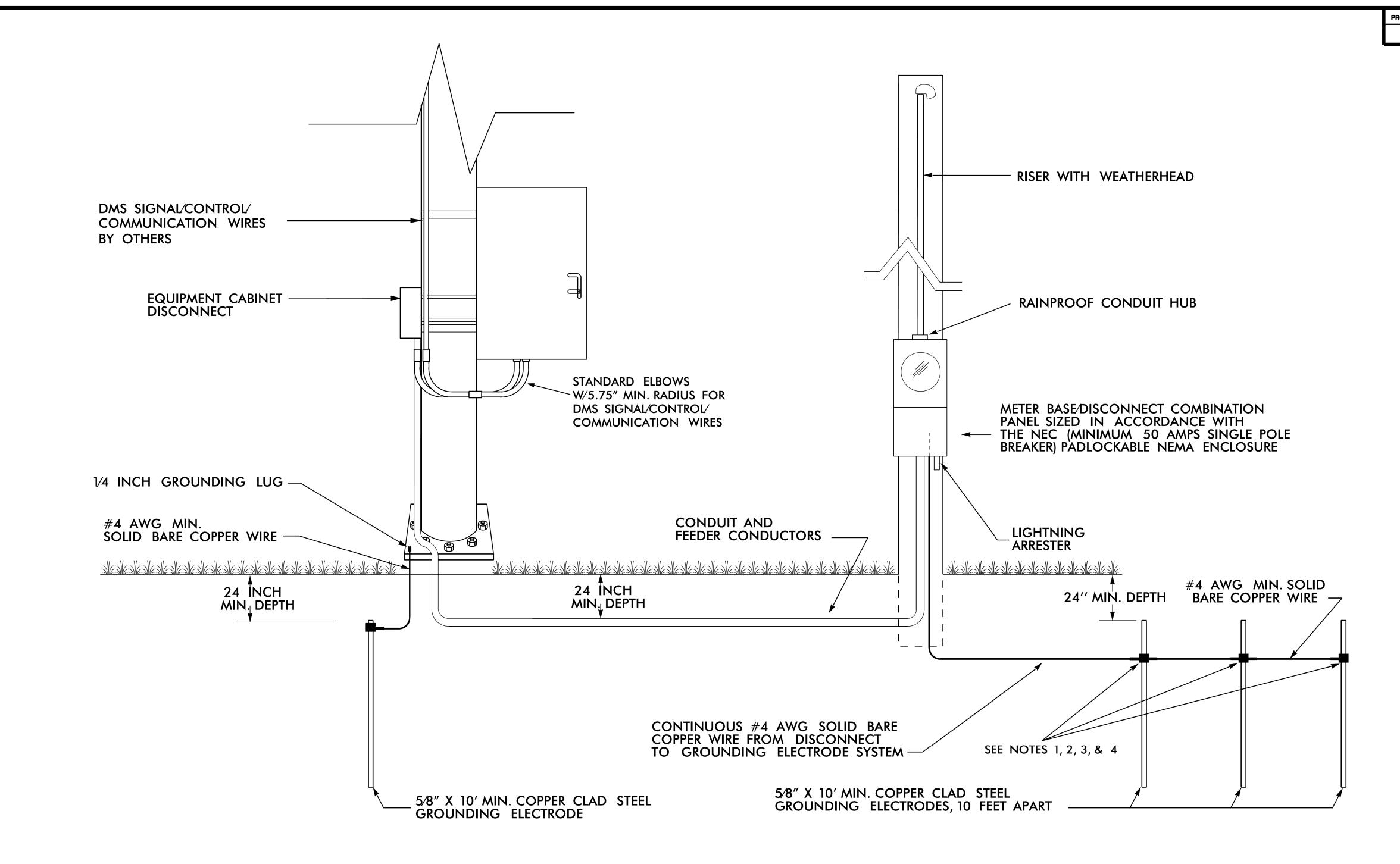


CCTV CAMERA POLE (NOT TO SCALE)

FULL-PENETRATION GROOVE WELD DETAIL



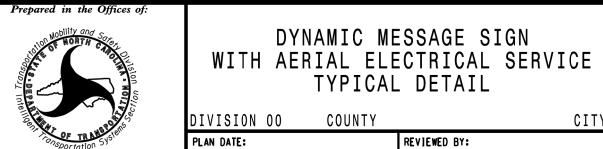
R - 2577A SCP 1A

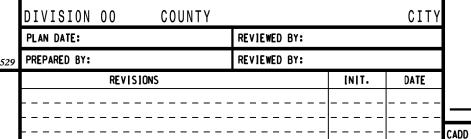


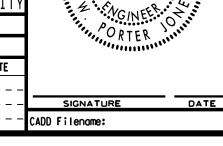
NOTES

- 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.

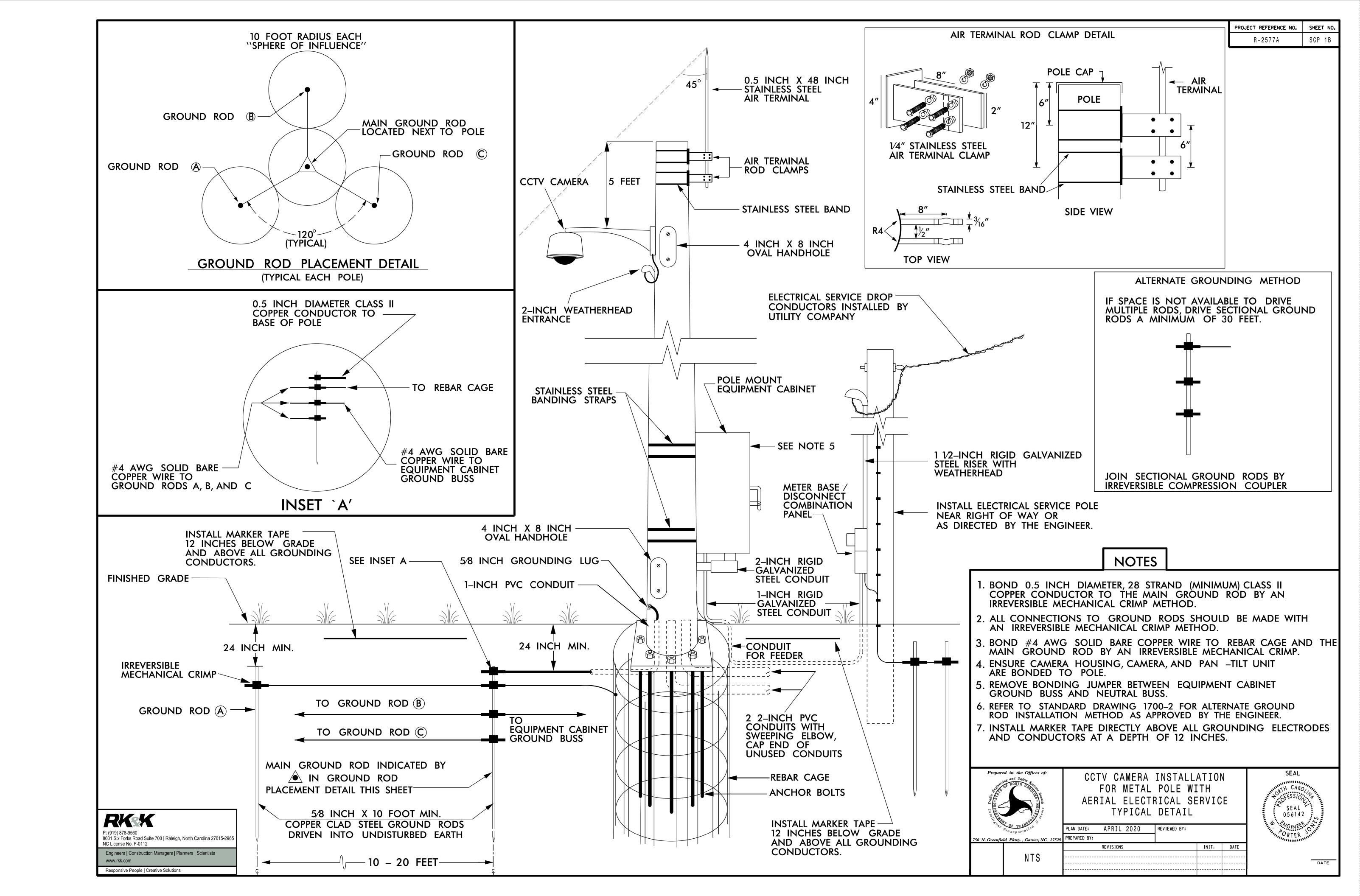








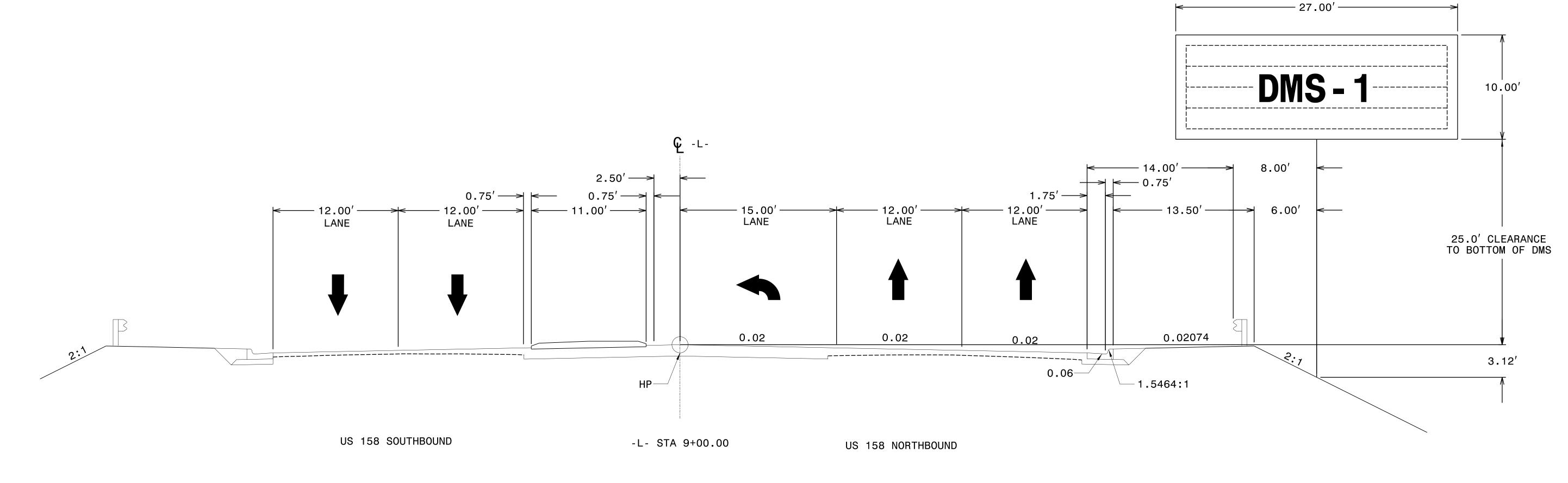
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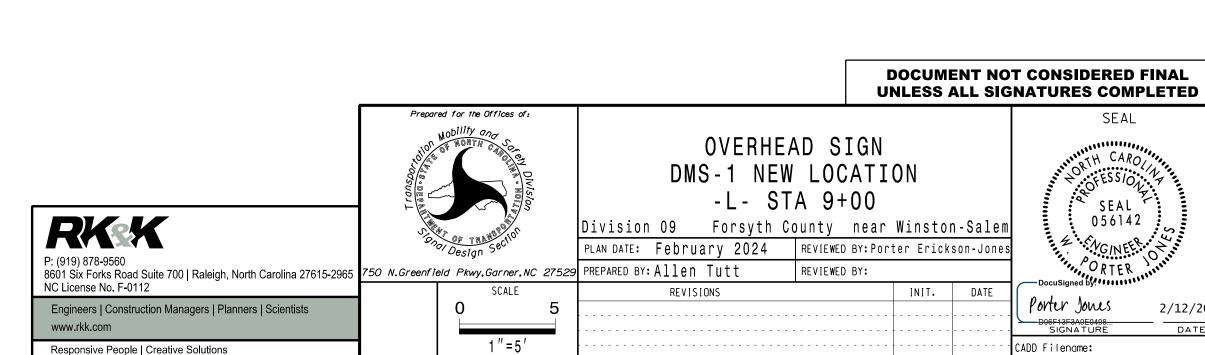


JECT REFERENCE NO.	SHEET NO.
R - 2577A	SCP 1C

NOTES:

- 1. IF THE CONTRACTOR PROVIDES AN ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- 2. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- 3. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4" AND NOT MORE THAN 24" ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- 4. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THE PLANS.
- 5. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 MPH.
- 6. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- 7. THE EXACT SPAN DIMENSIONS SHALL BE DETERMINED BY THE FABRICATOR.
- 8. SIGN DIMENSIONS SHOWN SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS.





JECT REFERENCE NO.	SHEET NO.
R - 2577A	SCP 1D

- 27.00′ —

OVERHEAD SIGN

DMS-2 NEW LOCATION

-L- STA 294+50

Division 09 Forsyth County near Winston-Salem PLAN DATE: February 2024 REVIEWED BY: Porter Erickson-Jones

REVISIONS

REVIEWED BY:

Porter Jones

CADD Filename:

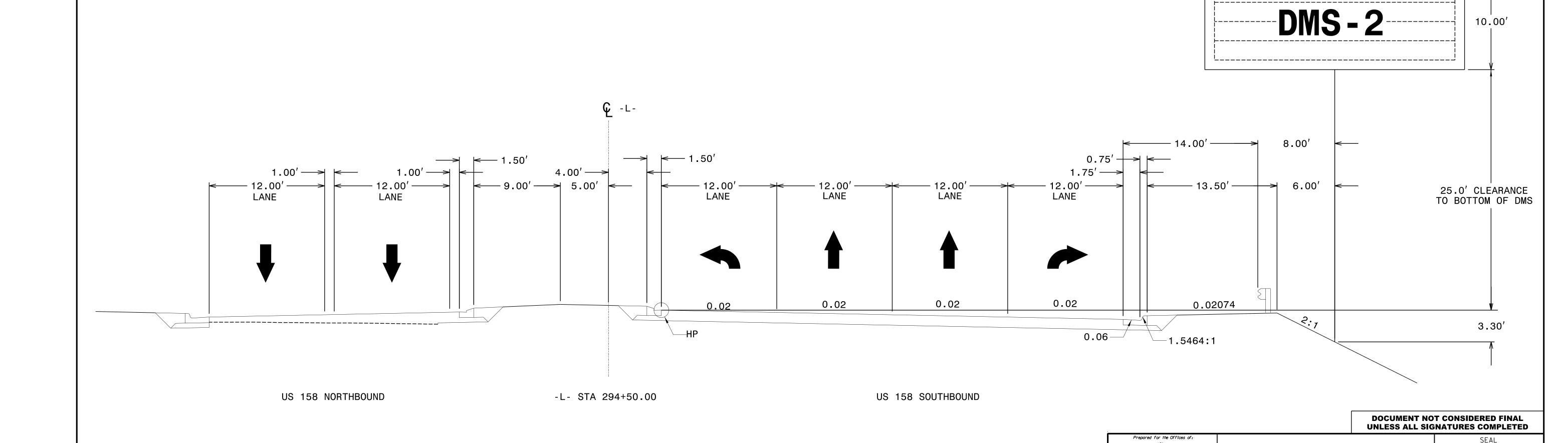
2/12/2024

DATE

750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: Allen Tutt

NOTES:

- 1. IF THE CONTRACTOR PROVIDES AN ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
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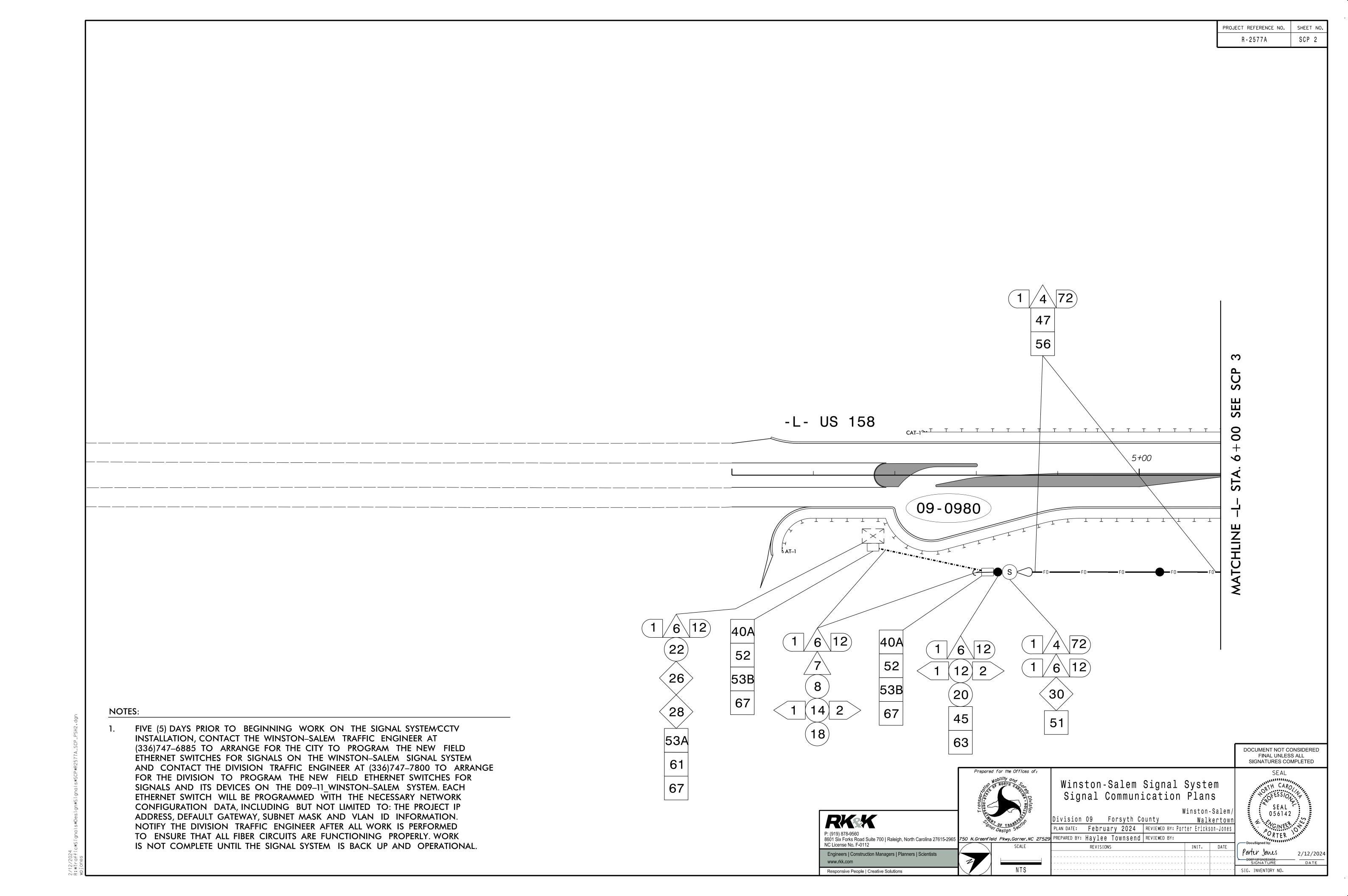
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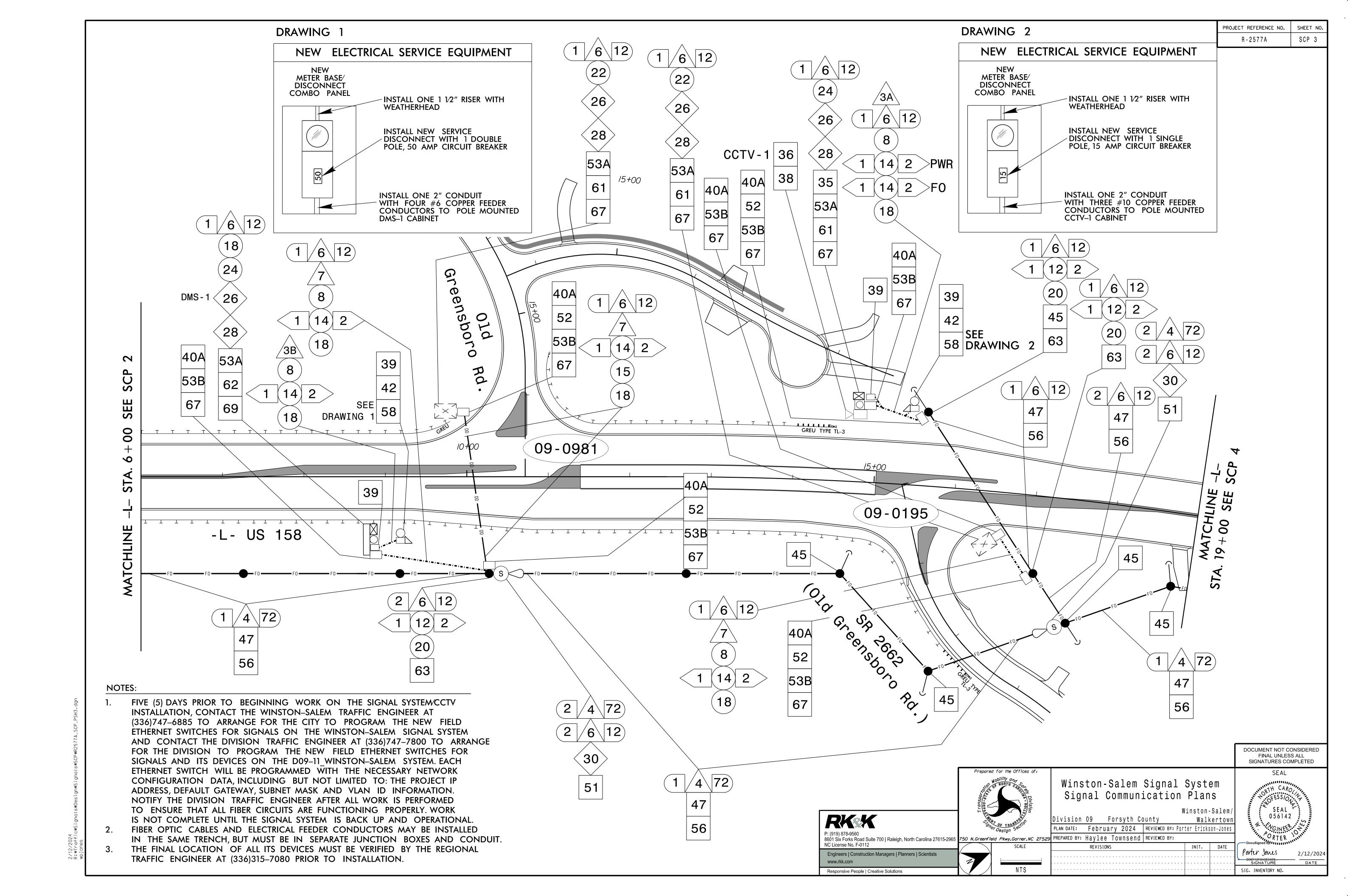
www.rkk.com

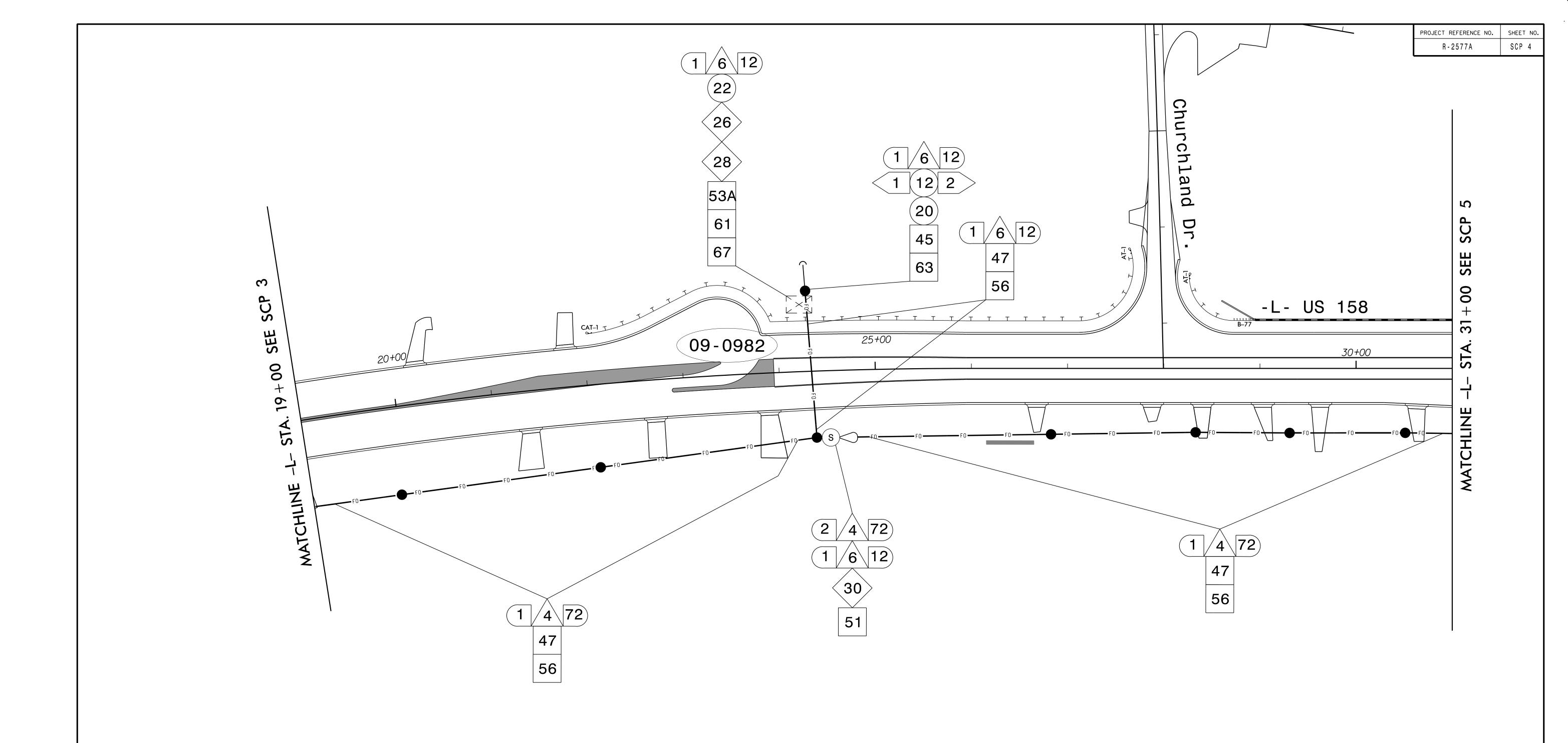
8601 Six Forks Road Suite 700 | Raleigh, North Carolina 27615-2965 NC License No. F-0112

Engineers | Construction Managers | Planners | Scientists

Responsive People | Creative Solutions







NOTES:

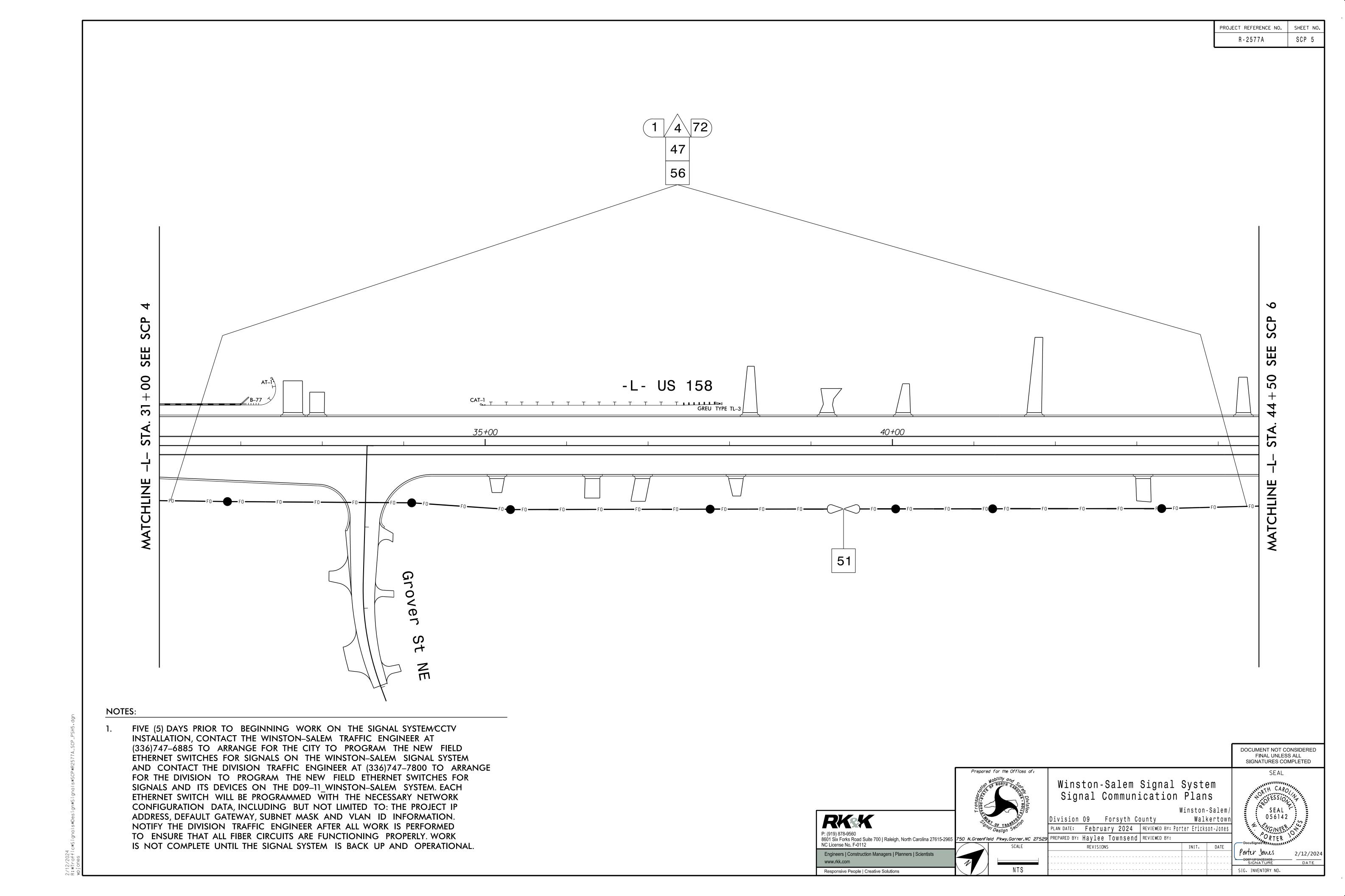
FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM/CCTV INSTALLATION, CONTACT THE WINSTON-SALEM TRAFFIC ENGINEER AT (336)747-6885 TO ARRANGE FOR THE CITY TO PROGRAM THE NEW FIELD ETHERNET SWITCHES FOR SIGNALS ON THE WINSTON-SALEM SIGNAL SYSTEM AND CONTACT THE DIVISION TRAFFIC ENGINEER AT (336)747-7800 TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES FOR SIGNALS AND ITS DEVICES ON THE D09-11 WINSTON-SALEM SYSTEM. EACH ETHERNET SWITCH WILL BE PROGRAMMED 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 DIVISION TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL. THE FINAL LOCATION OF ALL ITS DEVICES MUST BE VERIFIED BY THE REGIONAL

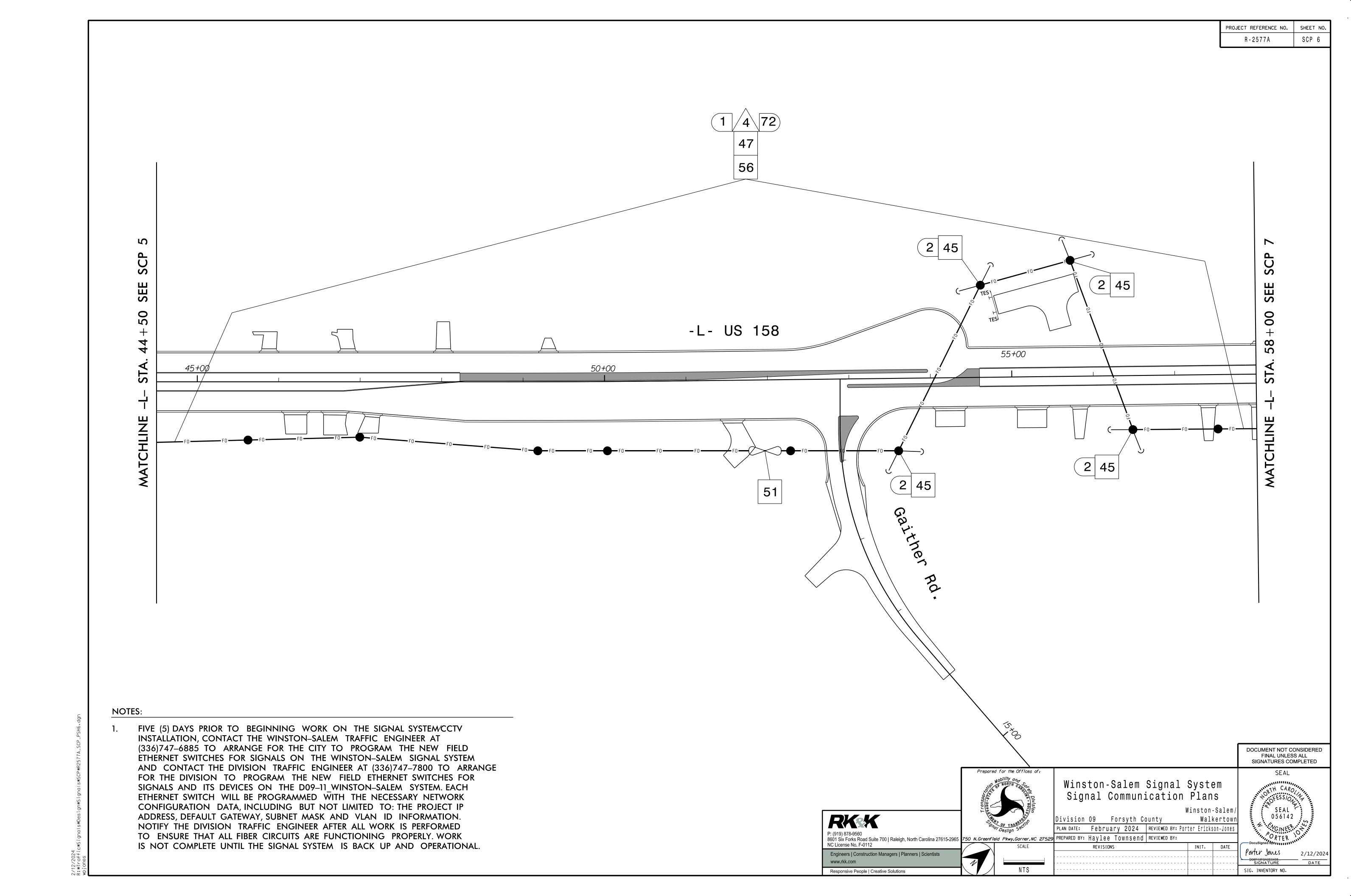
TRAFFIC ENGINEER AT (336)315-7080 PRIOR TO INSTALLATION.

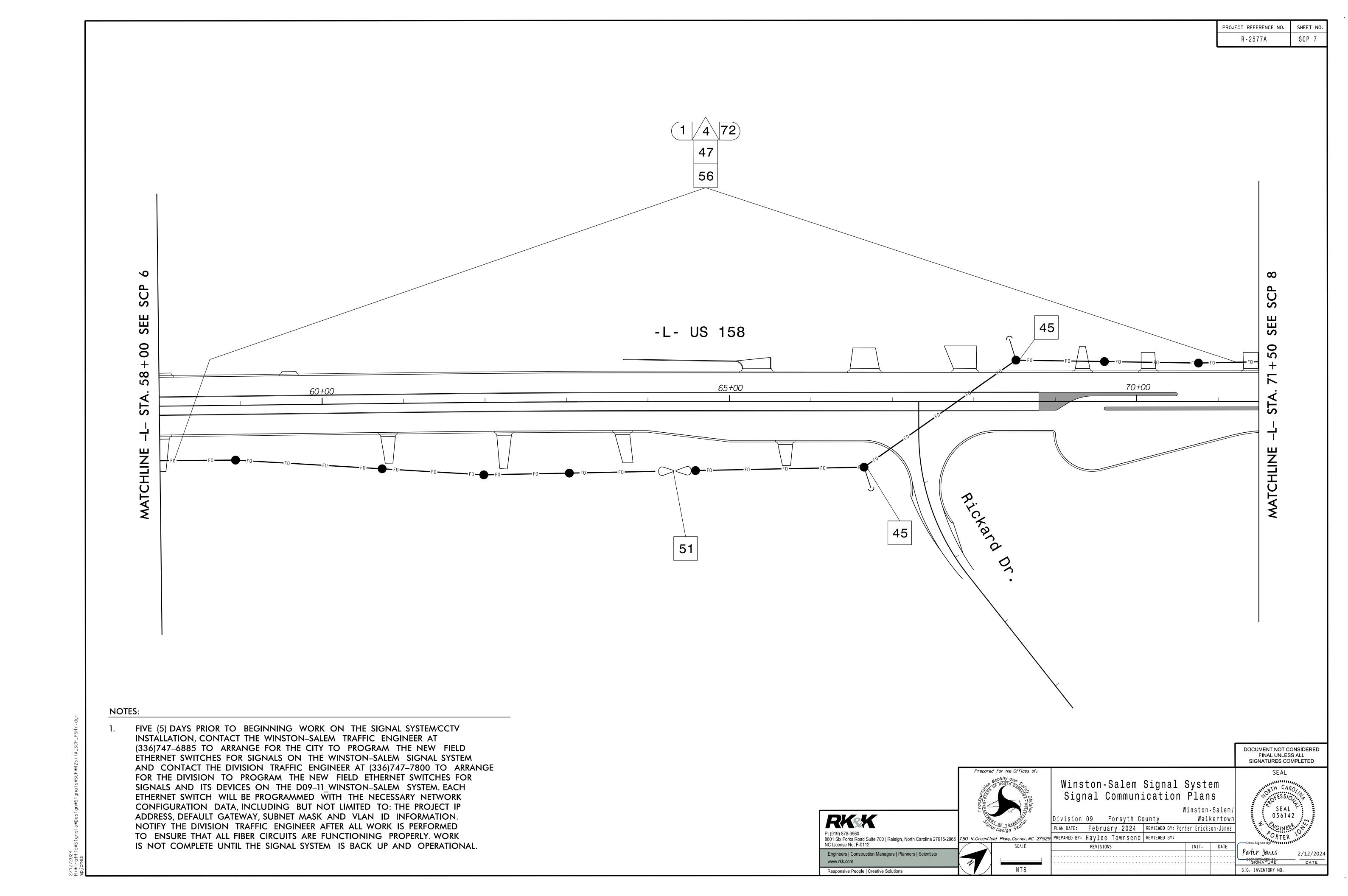
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED Winston-Salem Signal System Signal Communication Plans Winston-Salem/ RKK Division 09 Forsyth County Walkertown PLAN DATE: February 2024 REVIEWED BY: Porter Erickson-Jones 8601 Six Forks Road Suite 700 | Raleigh, North Carolina 27615-2965 | 750 N.Greenfield Pkwy.Garner.NC 27529 | PREPARED BY: Haylee Townsend REVIEWED BY: NC License No. F-0112 REVISIONS Porter Jones Engineers | Construction Managers | Planners | Scientists SIG. INVENTORY NO. Responsive People | Creative Solutions

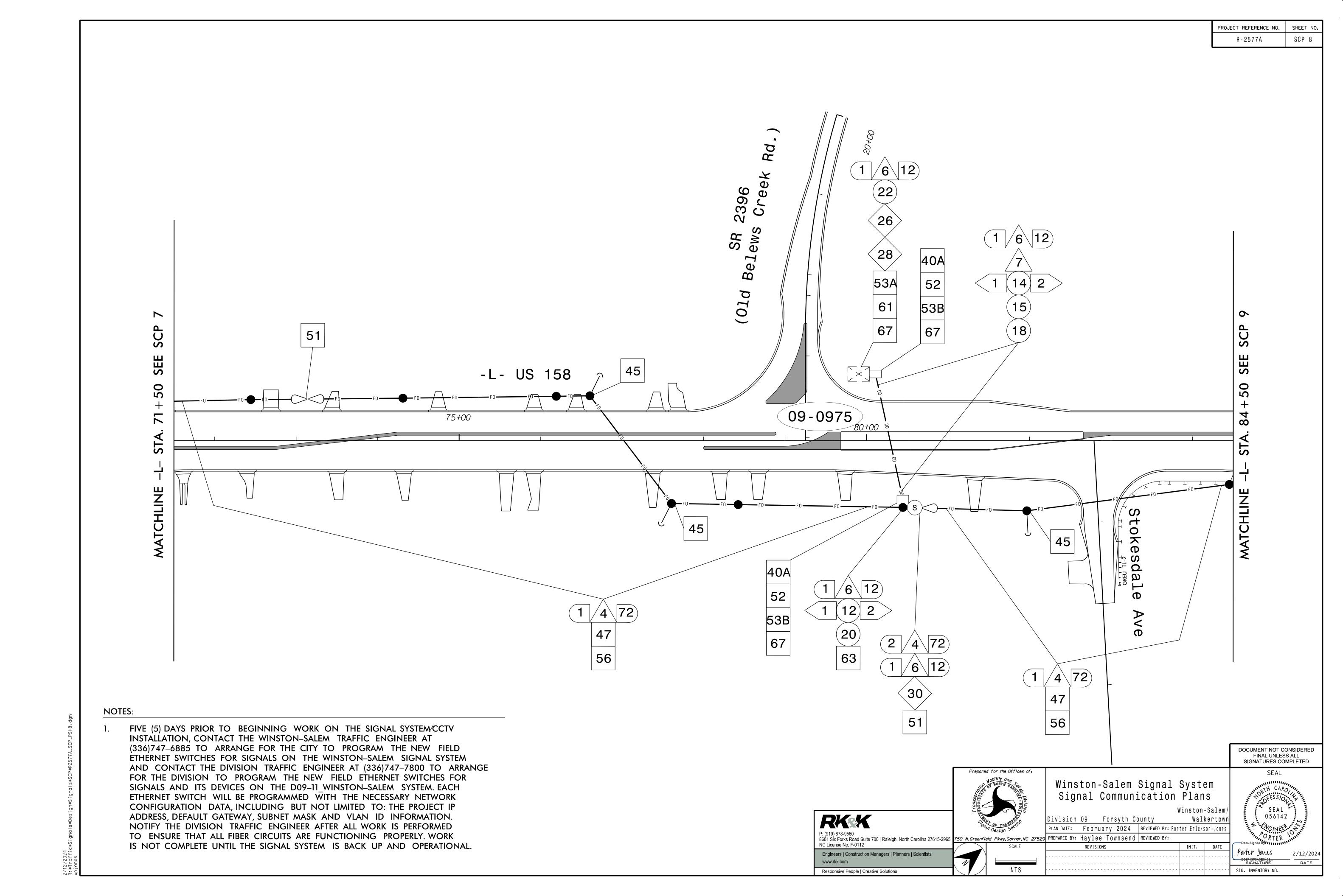
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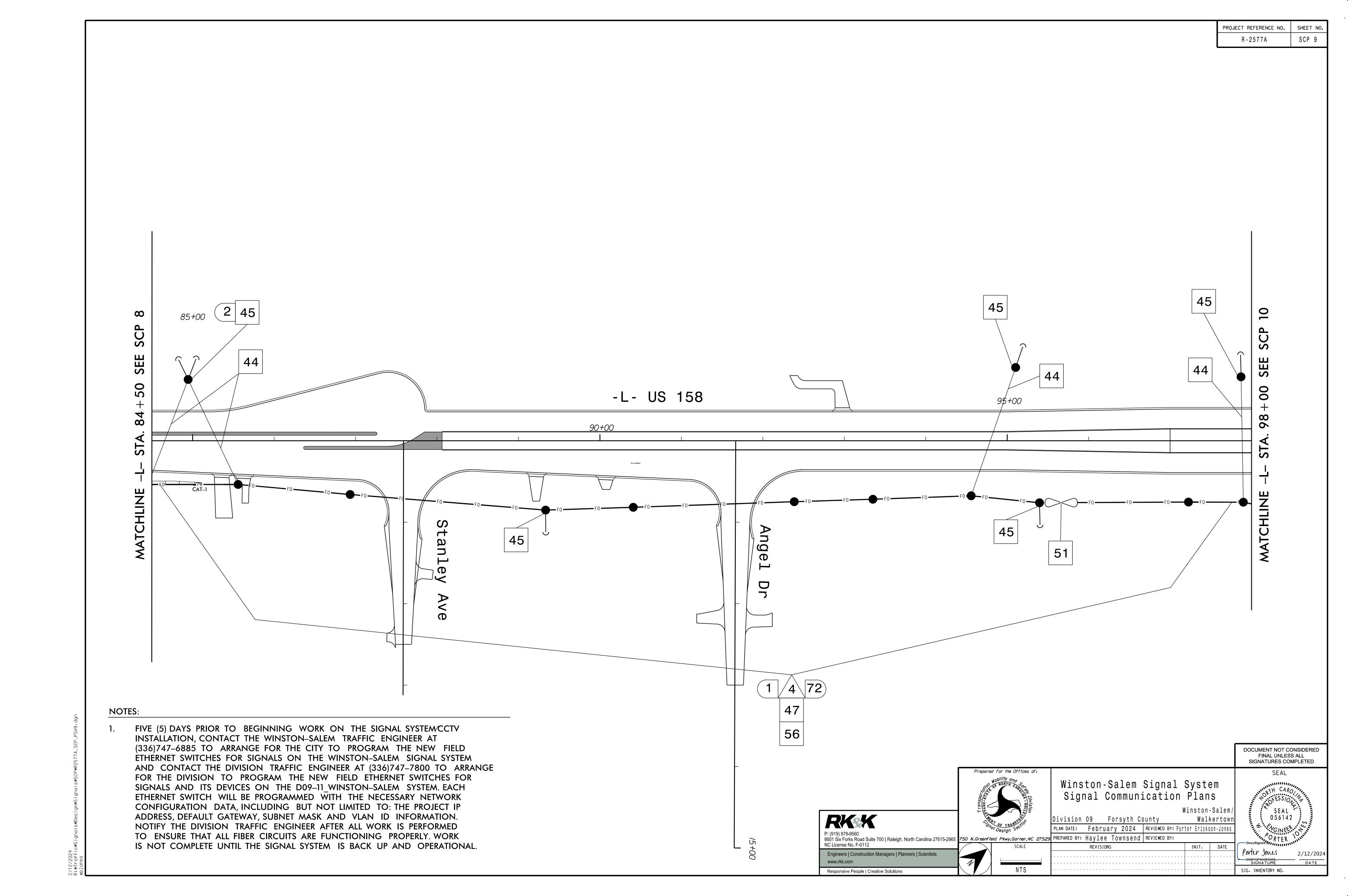
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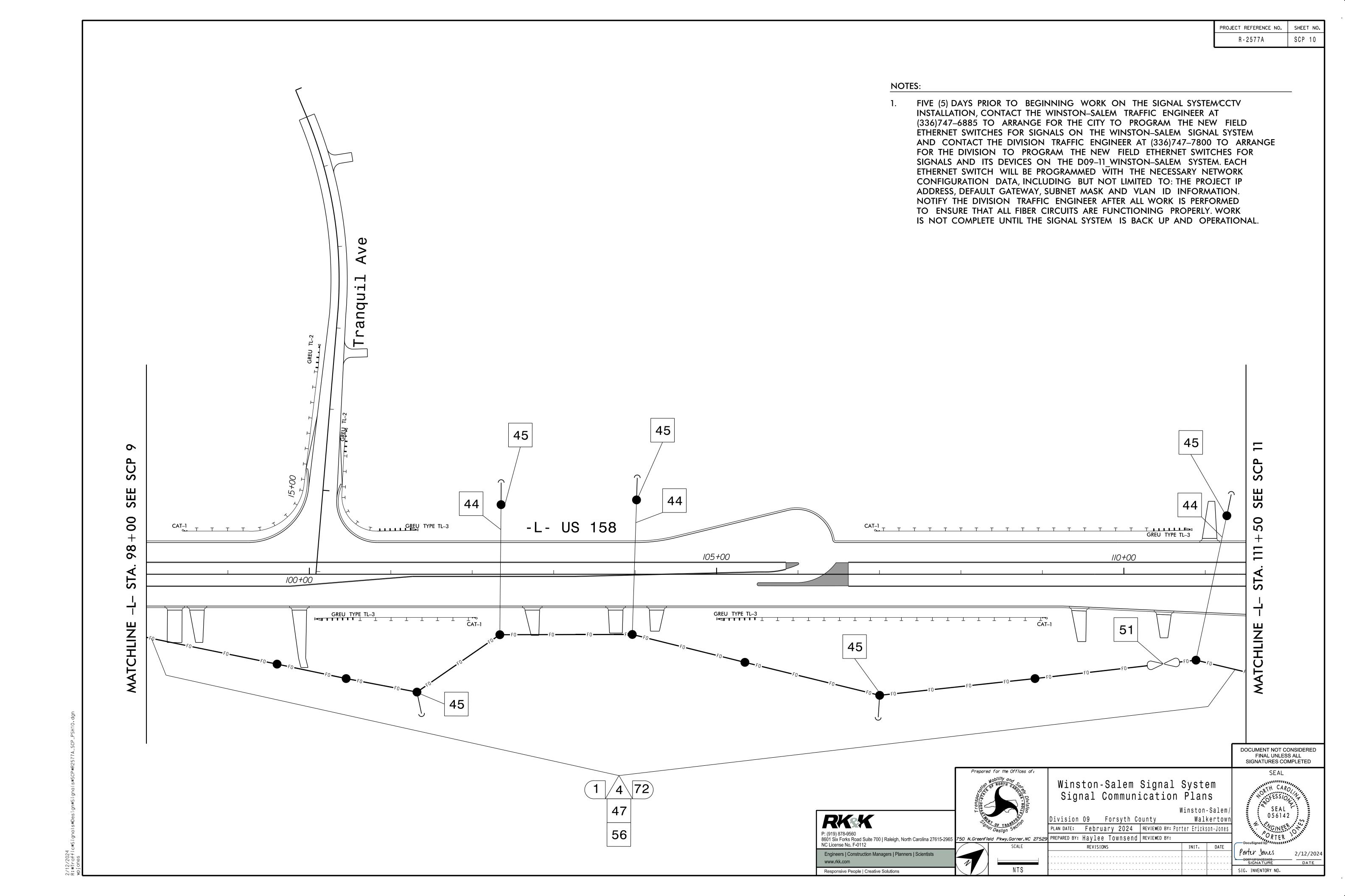


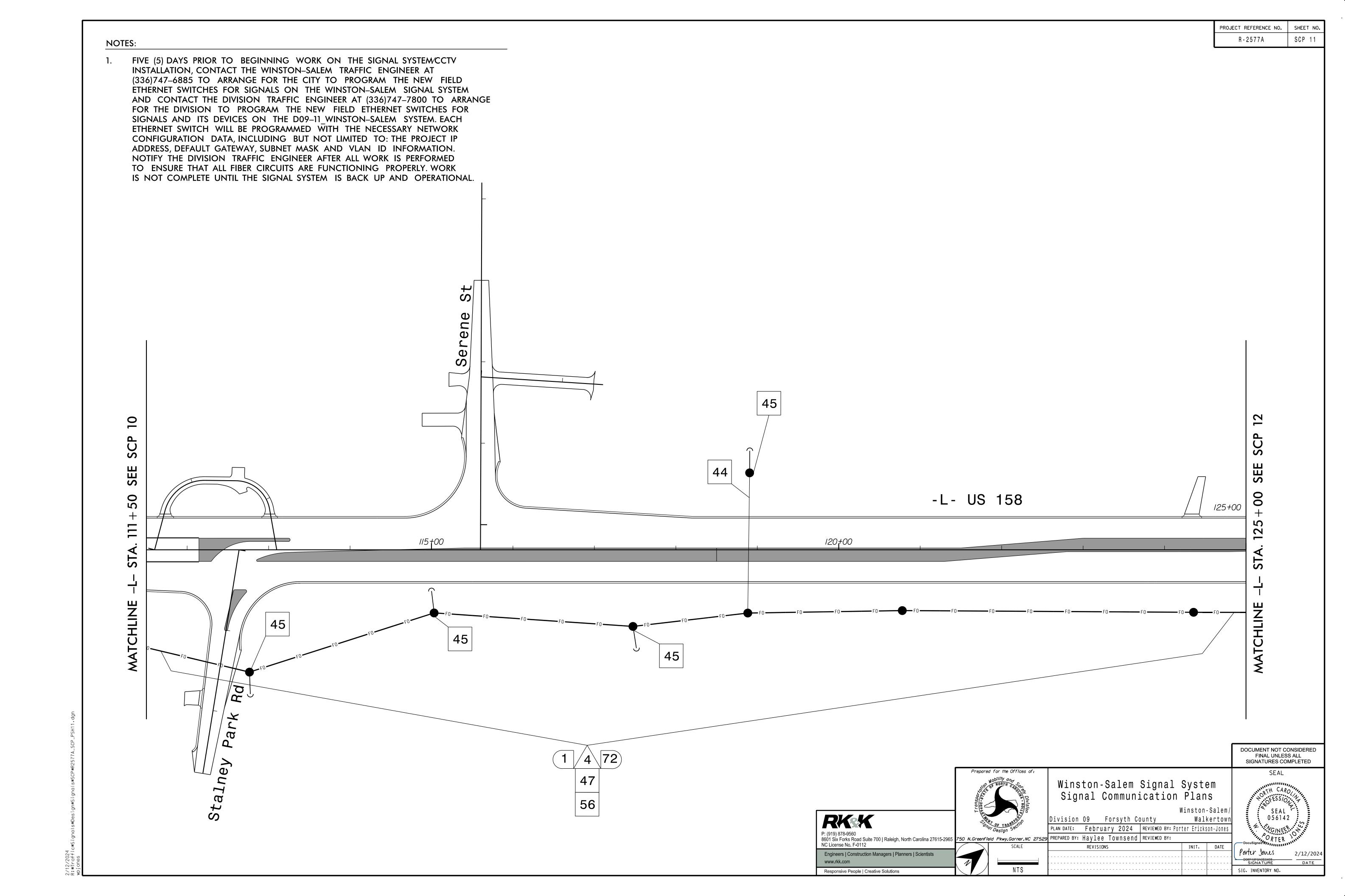


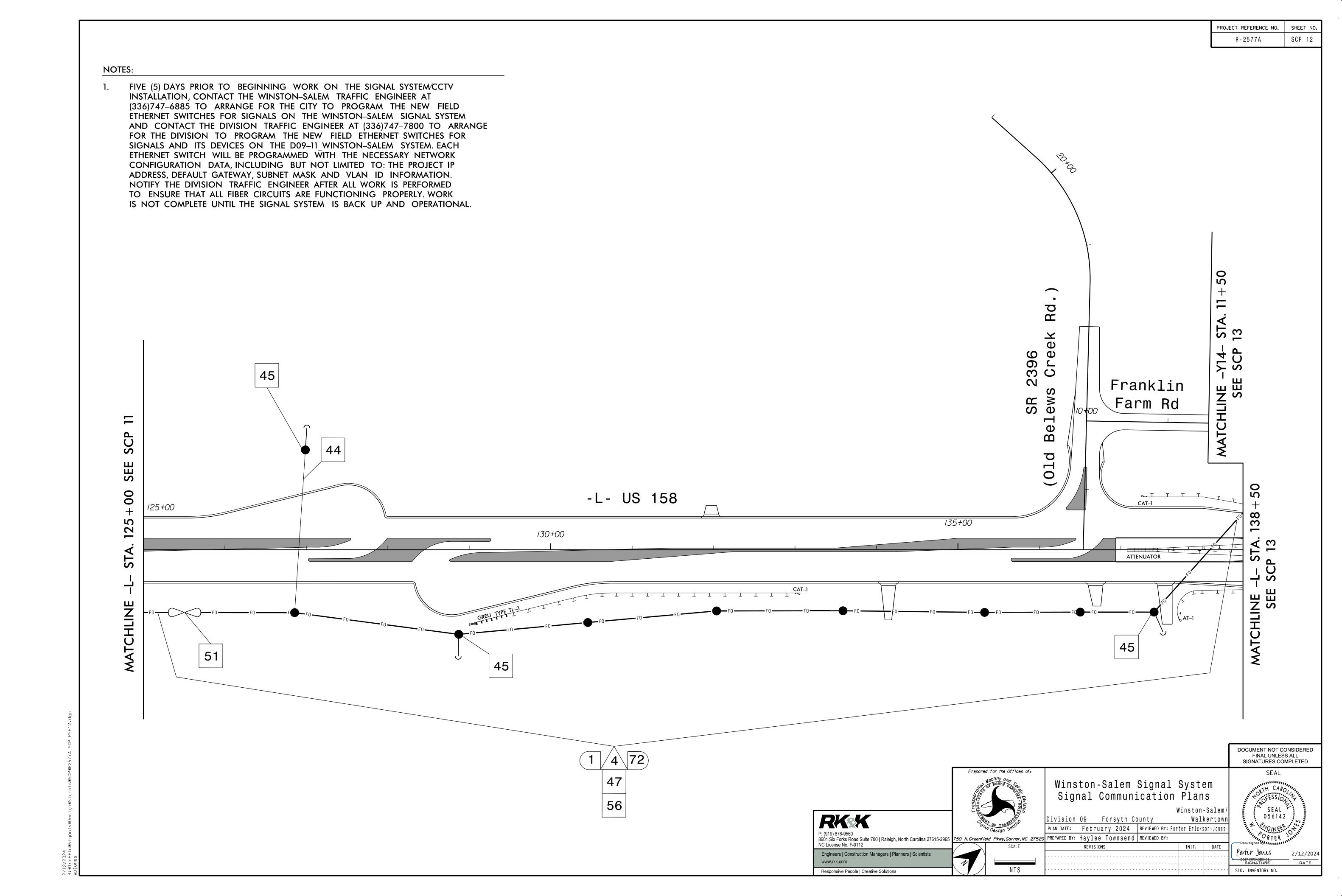


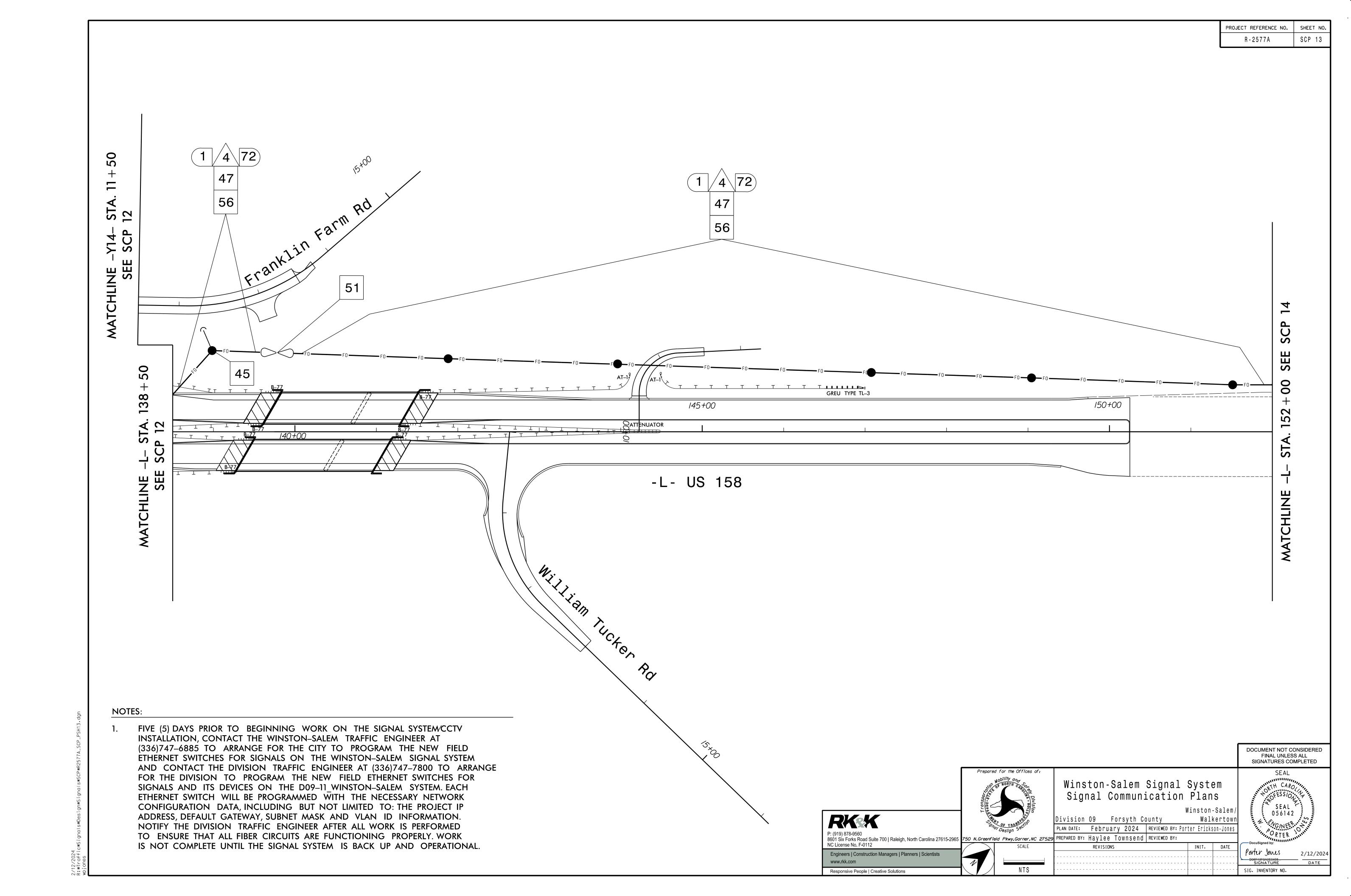


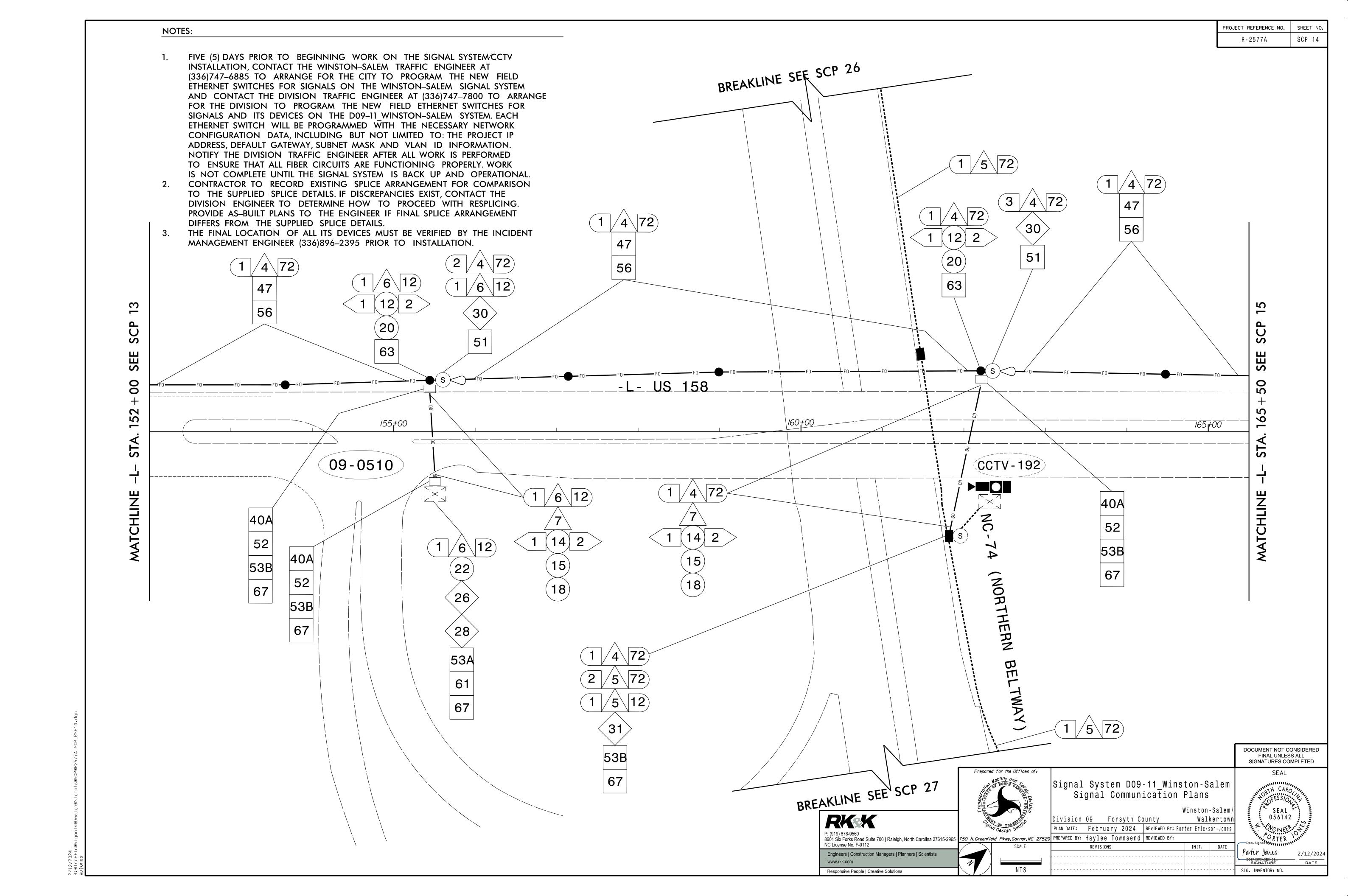


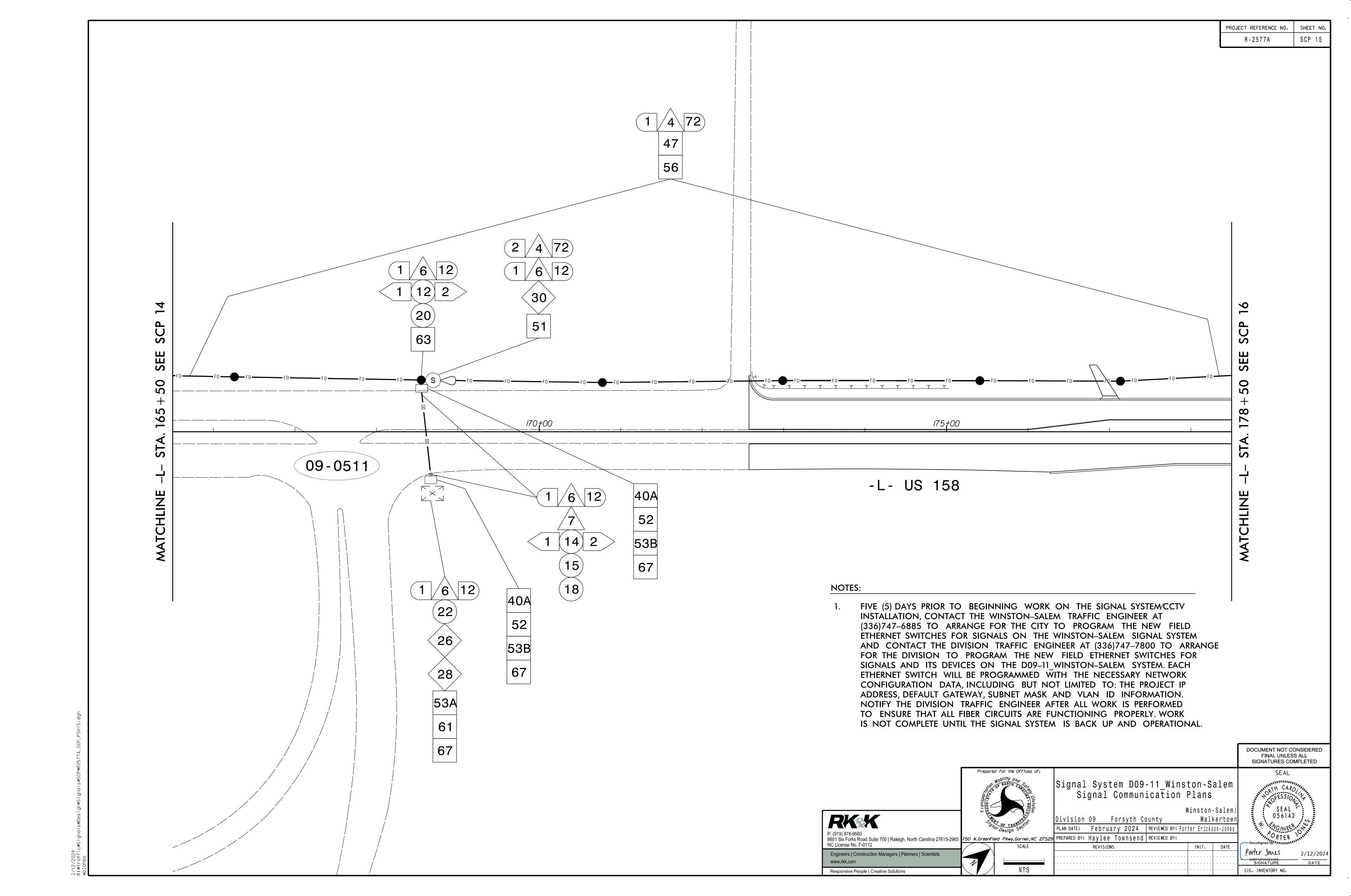




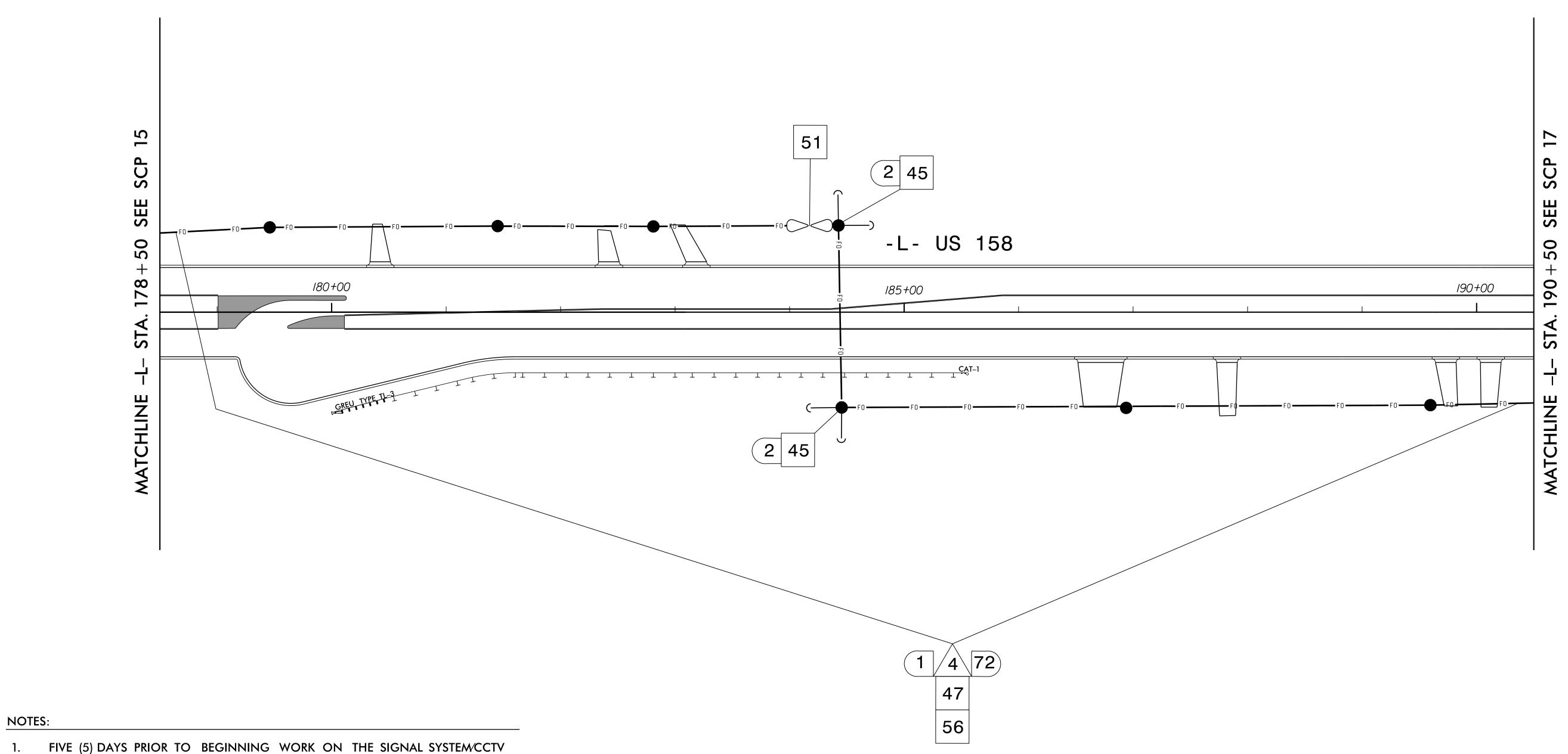








PROJECT REFERENCE NO. R-2577A



INSTALLATION, CONTACT THE WINSTON-SALEM TRAFFIC ENGINEER AT (336)747-6885 TO ARRANGE FOR THE CITY TO PROGRAM THE NEW FIELD ETHERNET SWITCHES FOR SIGNALS ON THE WINSTON-SALEM SIGNAL SYSTEM AND CONTACT THE DIVISION TRAFFIC ENGINEER AT (336)747-7800 TO ARRANGE FOR THE DIVISION TO PROGRAM THE NEW FIELD ETHERNET SWITCHES FOR SIGNALS AND ITS DEVICES ON THE D09-11_WINSTON-SALEM SYSTEM. EACH ETHERNET SWITCH WILL BE PROGRAMMED 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 DIVISION TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.

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