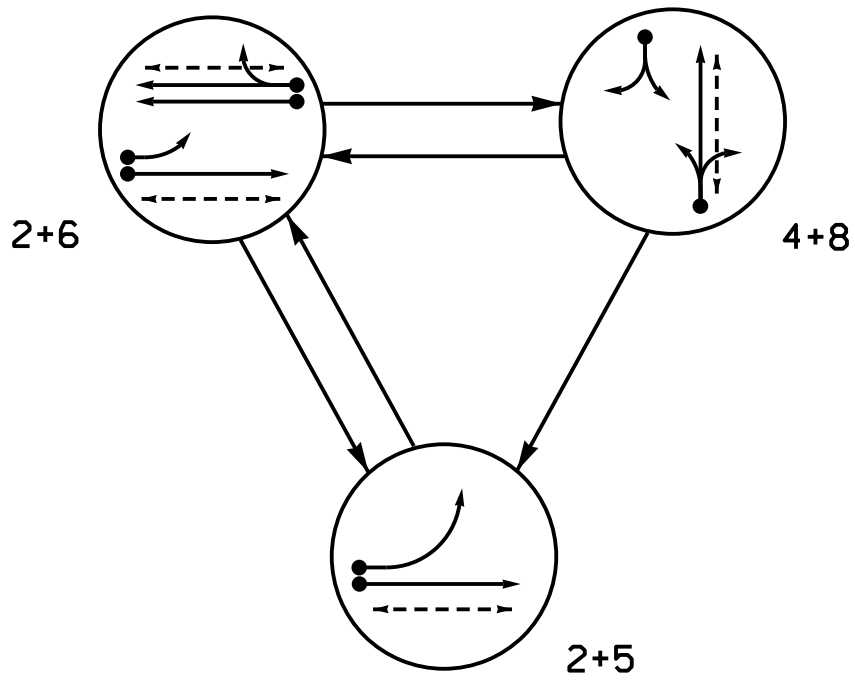


PHASING DIAGRAM

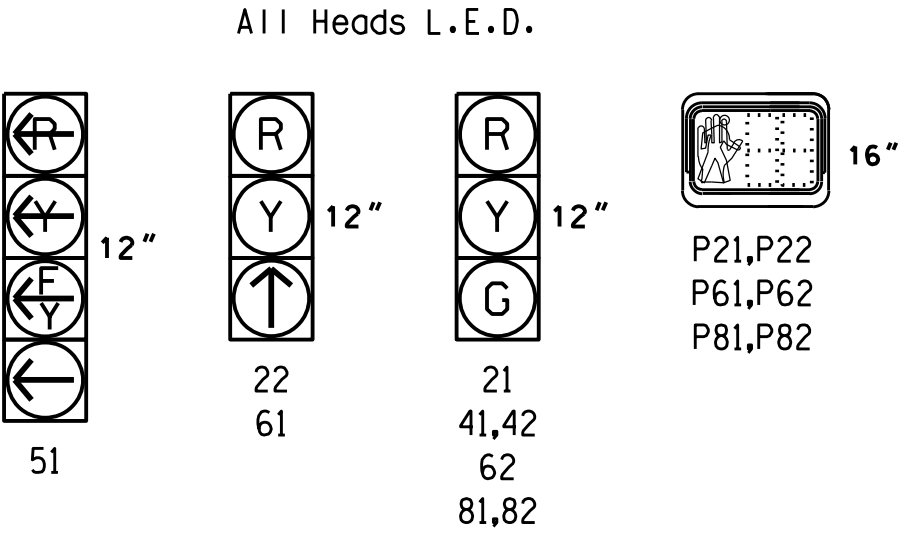


PHASING DIAGRAM DETECTION LEGEND

- DETECTED MOVEMENT
- UNDETECTED MOVEMENT (OVERLAP)
- UNSIGNALIZED MOVEMENT
- PEDESTRIAN MOVEMENT

SIGNAL FACE	PHASE			
	2 + 5	2 + 6	4 + 8	FLASH
21	G	G	R	R
22	↑	↑	R	R
41,42	R	R	G	R
51	←	←	←	←
61	R	↑	R	R
62	R	G	R	R
81,82	R	R	G	R
P21,P22	W	W	DW	DRK
P61,P62	DW	W	DW	DRK
P81,P82	DW	DW	W	DRK

SIGNAL FACE I.D.



MAXTIME DETECTOR INSTALLATION CHART											
DETECTOR				PROGRAMMING							
LOOP	SIZE (FT)	DISTANCE FROM STOPBAR (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
2A *	EXIST	70	*	-	2	-	-	X	-	X	-
4A	6X60	+30	2-4-2	-	4	10.0	-	X	-	X	-
5A	6X40	0	2-4-2	-	2	-	-	X	-	X	-
6A	6X6	70	4	-	6	-	-	X	-	X	-
6B	6X6	70	4	-	6	-	-	X	-	X	-
8A	6X40	0	2-4-2	X	8	10.0	-	X	-	X	-

* Multi-Zone Microwave Detection

3 Phase
Fully Actuated
D13-22_Ashville

NOTES

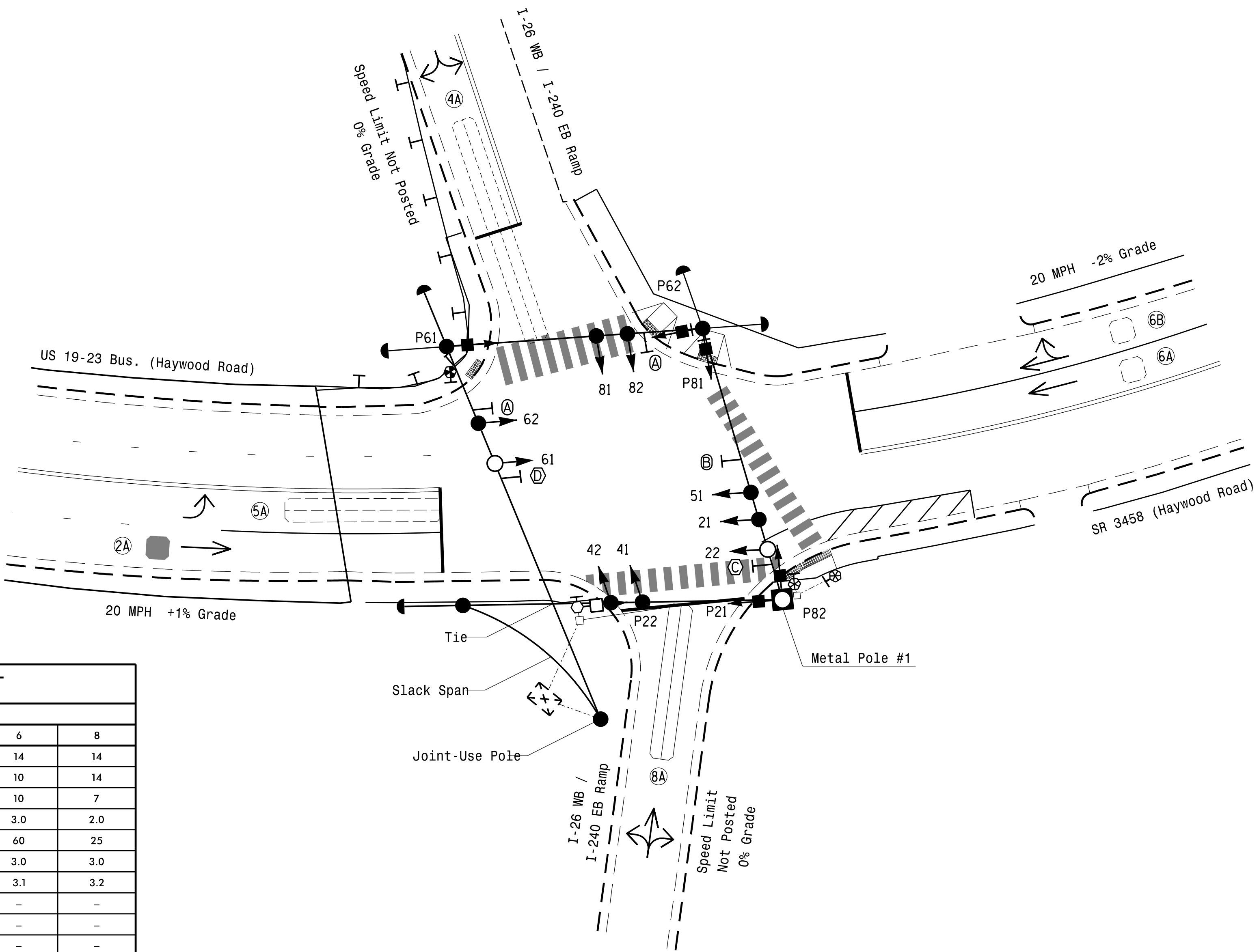
- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Disable Backup Protect for phase 2.
- Set all detector units to presence mode.
- In the event of loop replacement, refer to the current ITS and Signals Design Manual and submit a Plan of Record to the Signal Design Section.
- Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls for phase 8.
- Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.
- See Pavement Marking Plans for stop bar and crosswalk locations.

LEGEND

PROPOSED	EXISTING
Traffic Signal Head	N/A
Modified Signal Head	N/A
Sign	N/A
Pedestrian Signal Head	N/A
Pushbutton & Sign	N/A
Signal Pole with Guy	N/A
Signal Pole with Sidewalk Guy	N/A
Inductive Loop Detector	N/A
Controller & Cabinet	N/A
Junction Box	N/A
2-in Underground Conduit	N/A
Right of Way	N/A
Directional Arrow	N/A
Metal Strain Pole	N/A
Type I Pushbutton Post	N/A
Type II Signal Pedestal	N/A
Right "TURNING VEHICLES" Yield	N/A
"T0" Pedestrians Sign (R10-15R)	N/A
Left "TURNING VEHICLES" Yield	N/A
"T0" Pedestrians Sign (R10-15L)	N/A
No Right Turn Sign (R3-1)	N/A
No Left Turn Sign (R3-2)	N/A
Non-Intrusive Detection Zone	N/A
Curb Ramp	N/A

MAXTIME TIMING CHART					
FEATURE	PHASE				
	2	4	5	6	8
Walk *	7	-	-	14	14
Ped Clear	13	-	-	10	14
Min Green *	10	7	7	10	7
Passage *	3.0	2.0	2.0	3.0	2.0
Max 1 *	60	25	20	60	25
Yellow Change	3.0	3.0	3.0	3.0	3.0
Red Clear	3.1	3.2	1.9	3.1	3.2
Added Initial *	-	-	-	-	-
Maximum Initial *	-	-	-	-	-
Time Before Reduction *	-	-	-	-	-
Time To Reduce *	-	-	-	-	-
Minimum Gap	-	-	-	-	-
Advance Walk	-	-	-	7	7
Non Lock Detector	-	X	X	-	X
Vehicle Recall	MIN RECALL	-	-	MIN RECALL	-
Dual Entry	-	X	-	-	X
Actuated Rest in Walk	-	-	-	-	-
Simultaneous Start	-	X	-	-	X
Ped Recycle	X	-	-	-	-

* These values may be field adjusted. Do not adjust Min Green and Passage times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.



Signal Upgrade
Final Design (Phase III Step 3)

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

Prepared For the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

TRANSPORTATION MOBILITY AND SAFETY DIVISION
DEPARTMENT OF TRANSPORTATION
SIGNAL DESIGN SECTION

US 19-23 Business/
SR 3548 (Haywood Road)
at
I-26 WB / I-240 EB Ramps

Division 13 Buncombe County Asheville

PLAN DATE: May 2026 REVIEWED BY: C. Kalencik

PREPARED BY: M. Tindal REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
040715
COURTNEY L. KALENICK

DocuSigned by:
Courtney L. Kalencik
8/7/2026

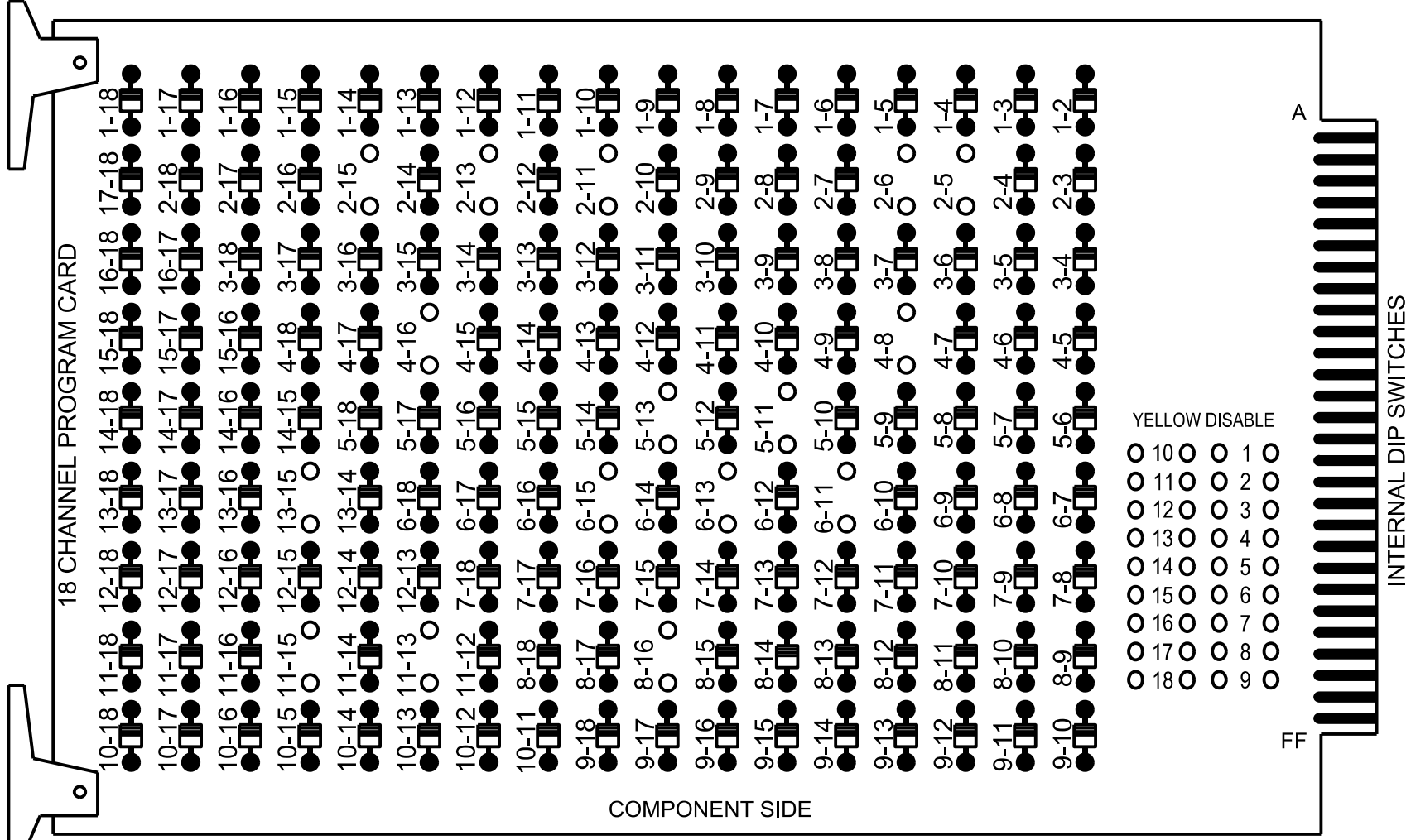
SIGNATURE DATE

SIG. INVENTORY NO. 13-0218

18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-5, 2-6, 2-11, 2-13, 2-15, 4-8, 4-16, 5-11, 5-13, 6-11, 6-13, 6-15, 8-16, 11-13, 11-15 AND 13-15.



REMOVE JUMPERS AS SHOWN

NOTES:

- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
- Ensure that the Red Enable is active at all times during normal operation.
- Integrate monitor with Ethernet network in cabinet.

NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
- Program phases 4 and 8 for Dual Entry and Simultaneous Start.
- Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- The cabinet and controller are part of the D13-22 Asheville System.

EQUIPMENT INFORMATION

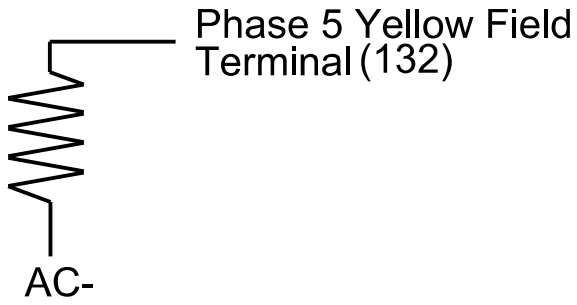
Controller.....2070LX
Cabinet.....332 w/ Aux
Software.....Q-Free MAXTIME
Cabinet Mount.....Base
Output File Positions.....18 With Aux. Output File
Load Switches Used.....S2, S3, S5, S7, S8, S9, S11, S12, AUX S4
Phases Used.....2, 2PED, 4, 5, 6, 6PED, 8, 8PED
Overlap "1".....NOT USED
Overlap "2".....NOT USED
Overlap "3".....*
Overlap "4".....NOT USED

*See overlap programming detail on sheet 2.

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown)

ACCEPTABLE VALUES	
Value (ohms)	Wattage
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



MAXTIME STARTUP AND SOFTWARE FLASH
PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Unit

Web Interface
Home >Controller >Unit

Modify parameters as shown below and save changes.

Start Up Parameters
StartUp Clearance Hold
6

Unit Flash Parameters
All Red Flash Exit Time
6

NOTE: IF PRESENT, REMOVE EXISTING BACKUP PREVENTION PROGRAMMING.

BACKUP PREVENTION
PROGRAMMING

Front Panel
Main Menu >Controller >Sequence & Phs Config >Backup Prevention > Backup Protection Plan

Web Interface
Home >Controller> Backup Prevention >Backup Protection Plan

Sequence 1

No Backup Phase	1	2	3	4	5	6	7	8
Serve Phase 1	*	*	*	*	*	*	*	*
Serve Phase 2	*	*	*	*	*	*	*	*
Serve Phase 3	*	*	*	*	*	*	*	*
Serve Phase 4	*	*	*	*	*	*	*	*
Serve Phase 5	*	*	*	*	*	*	*	*
Serve Phase 6	*	*	*	*	X	*	*	*
Serve Phase 7	*	*	*	*	*	*	*	*
Serve Phase 8	*	*	*	*	*	*	*	*

THIS PLAN SUPERSEDES THE PLAN
SIGNED AND SEALED ON 02/09/2024.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 13-0218
DESIGNED: May 2026
SEALED: 08/07/2026
REVISED: N/A

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200, Raleigh, NC 27607
Phone: 919-461-1100

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
GMU CHANNEL NO.		2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21	22	P21, P22	NU	41,42	NU	51	61	62	P61, P62	NU	81,82	P81, P82	NU	NU	51	NU
RED		128	128		101			134	134		107							
YELLOW		129	129		102		*	135	135		108							
GREEN		130			103				136		109							
RED ARROW																A114		
YELLOW ARROW																A115		
FLASHING YELLOW ARROW																A116		
GREEN ARROW			130				133	136										
Hand icon				113						119		110						
Walking person icon				115						121		112						

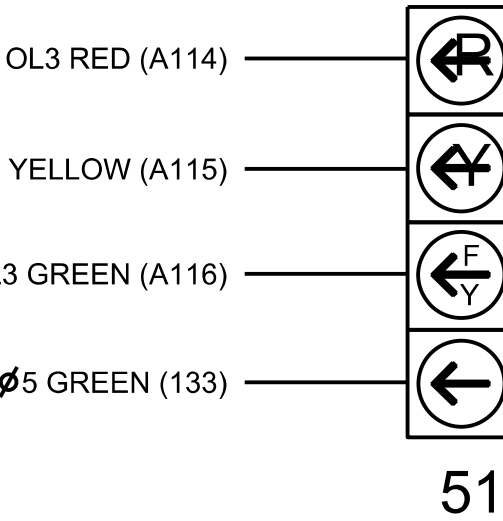
NU = Not Used

* Denotes install load resistor. See LOAD RESISTOR INSTALLATION DETAIL this sheet.

* See pictorial of head wiring in FYA SIGNAL WIRING DETAIL this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



COUNTDOWN PEDESTRIAN SIGNAL OPERATION

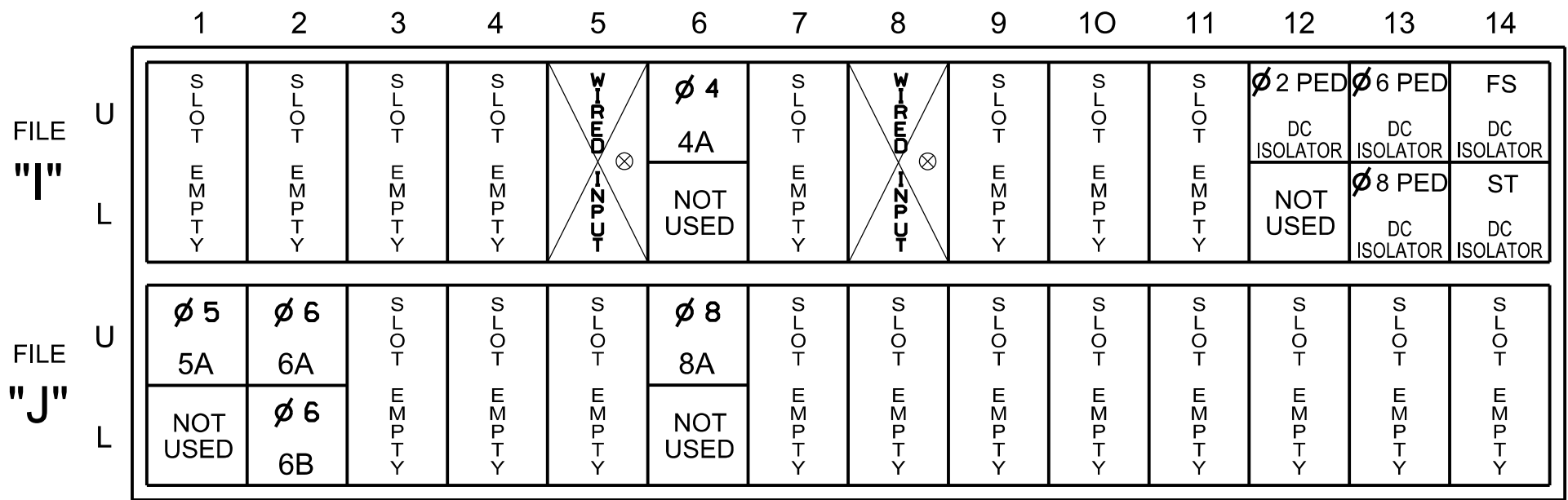
Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

Final (Phase III Step 3)
Electrical Detail - Sheet 1 of 2

Electrical and Programming Details For:	US 19-23 Business / SR 3548 (Haywood Road) at I-26 WB / I-240 EB Ramps	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
Prepared for the Offices of:	Division 13 Buncombe County Asheville	SEAL
Transportation Mobility and Safety Division	PLAN DATE: May 2026 REVIEWED BY: J O Deaton	SEAL 07438
Department of Transportation	PREPARED BY: M W Yalch REVIEWED BY:	ENGINEER JAMES O. DEATON
Signal Management Section	REVISIONS INIT. DATE	DocuSigned by: James O. Deaton 8/10/2026
750 N. Greenfield Pkwy, Garner, NC 27529		DATE
		SIG. INVENTORY NO. 13-0218

INPUT FILE POSITION LAYOUT

(front view)



EX. : 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME

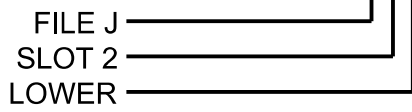
NOTE: IF PRESENT, REMOVE EXISTING JUMPERS ASSOCIATED W/ DETECTOR SLOTS I5 AND I8 FROM REAR OF INPUT FILE.

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
2A	-	-	-	*	38	2			X		X	
4A	TB4-9,10	I6U	41	3	8	4	10.0		X		X	
5A	TB3-1,2	J1U	55	17	15	5	15.0		X		X	
				-	31	2			X		X	
6A	TB3-5,6	J2U	40	2	16	6			X		X	
6B	TB3-7,8	J2L	44	6	17	6			X		X	
8A	TB5-9,10	J6U	42	4	22	8	10.0		X		X	
PED PUSH BUTTONS							NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOTS I12 AND I13.					
P21,P22	TB8-4,6	I12U	67	33	2	PED 2						
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						
P81,P82	TB8-8,9	I13L	70	36	8	PED 8						

*For Input Point numbers, see SDLC Non-Intrusive Detection Chart detail on this sheet.

INPUT FILE POSITION LEGEND: J2L



OVERLAP PROGRAMMING DETAIL

Front Panel

Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface

Home >Controller >Overlap Configuration >Overlaps

Overlap Plan 1

Overlap	1	2	3	4
Type	Off	Off	FYA 4 - Section	Off
Included Phases	-	-	6	-
Modifier Phases	-	-	5	-
Modifier Overlaps	-	-	-	-
Trail Green	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0

SPECIAL DETECTION IO MODULE PROGRAMMING

The Enhanced Out of Pavement Detection requires adjustments to the IO Modules in use. Follow the programming instructions below to ensure desired operation.

Front Panel

Main Menu >Controller >More >Advanced IO >IO Modules

Web Interface

Home >Controller >Advanced IO >Cabinet Configuration >IO Modules

IO Module	Type	Fault Response
1	Caltrans 332	Default
2	TS2 DR3 BIU	Default
3	TS2 MMU	Default

Advanced Cabinet Options

☒ Disable TS2 Cabinet Alarms

SPECIAL DETECTOR NOTE

For Zone 2A, install a multizone microwave detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

SDLC NON-INTRUSIVE DETECTION CHART

DETECTOR RACK #3		
Input Point	Det # (Index)	Detector Zone
1	33	NU
2	34	NU
3	35	NU
4	36	NU
5	37	NU
6	38	2A
7	39	NU
8	40	NU
9	41	NU
10	42	NU
11	43	NU
12	44	NU
13	45	NU
14	46	NU
15	47	NU
16	48	NU

NU = Not Used

THIS PLAN SUPERSEDES THE PLAN SIGNED AND SEALED ON 02/09/2024.

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200, Raleigh, NC 27607
Phone: 919-461-1100

OUTPUT CHANNEL CONFIGURATION

Front Panel

Main Menu >Controller >More>Channels>Channels Config

Web Interface

Home >Controller >Advanced IO>Channels>Channel Configuration

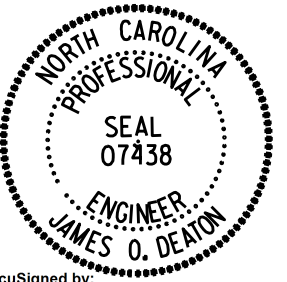
Channel Configuration

Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel
1	Phase Vehicle	1		X	X	1
2	Phase Vehicle	2		X		2
3	Phase Vehicle	3		X	X	3
4	Phase Vehicle	4		X		4
5	Phase Vehicle	5		X		5
6	Phase Vehicle	6		X	X	6
7	Phase Vehicle	7		X		7
8	Phase Vehicle	8		X	X	8
9	Overlap	1		X	X	9
10	Overlap	2		X	X	10
11	Overlap	3		X		11
12	Overlap	4		X		12
13	Phase Ped	2				13
14	Phase Ped	4				14
15	Phase Ped	6				15
16	Phase Ped	8				16
17	Overlap	5		X	X	17
18	Overlap	6		X		18

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0218
DESIGNED: May 2026
SEALED: 08/07/2026
REVISED: N/A

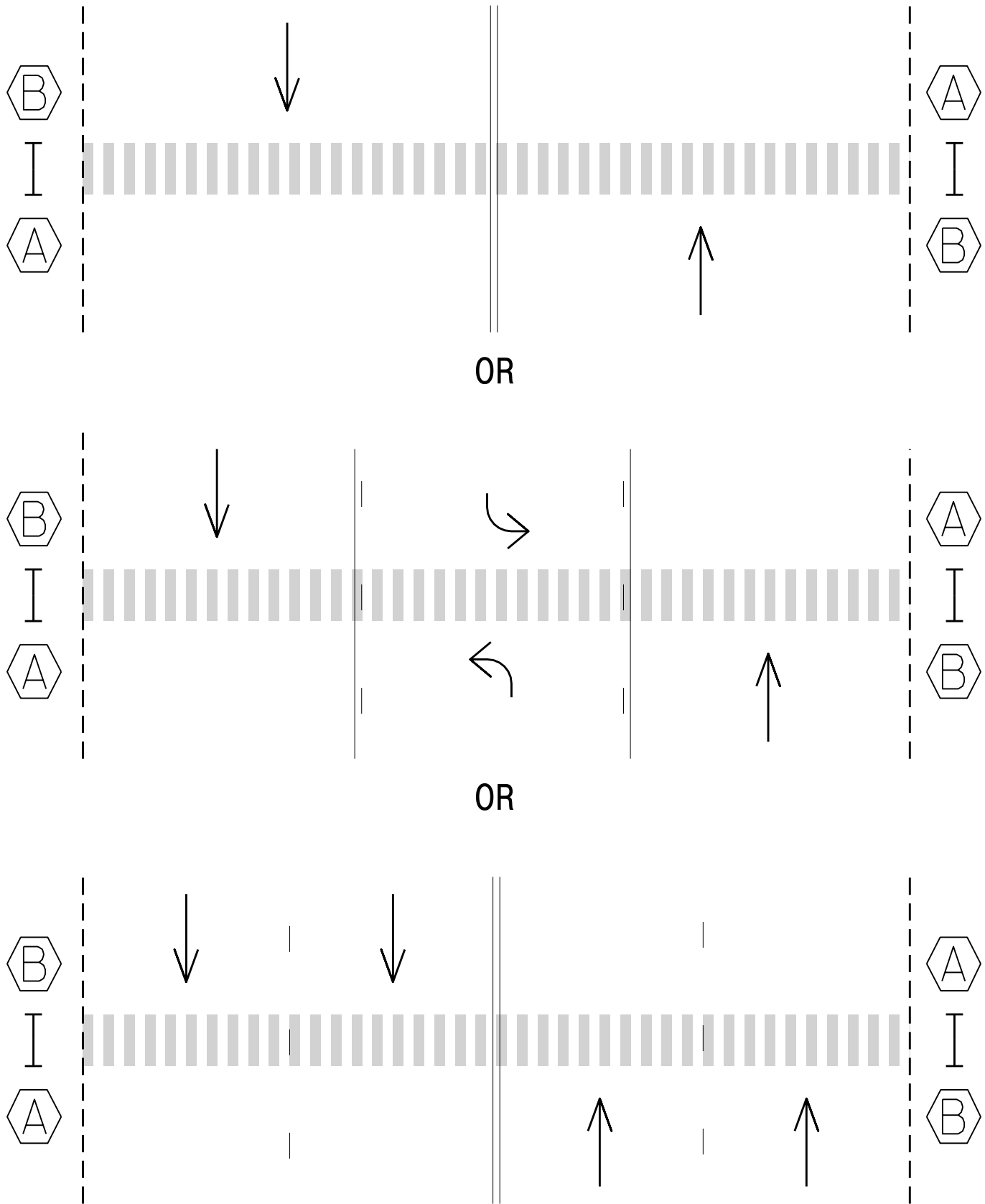
Final (Phase III Step 3)

Electrical Detail - Sheet 2 of 2

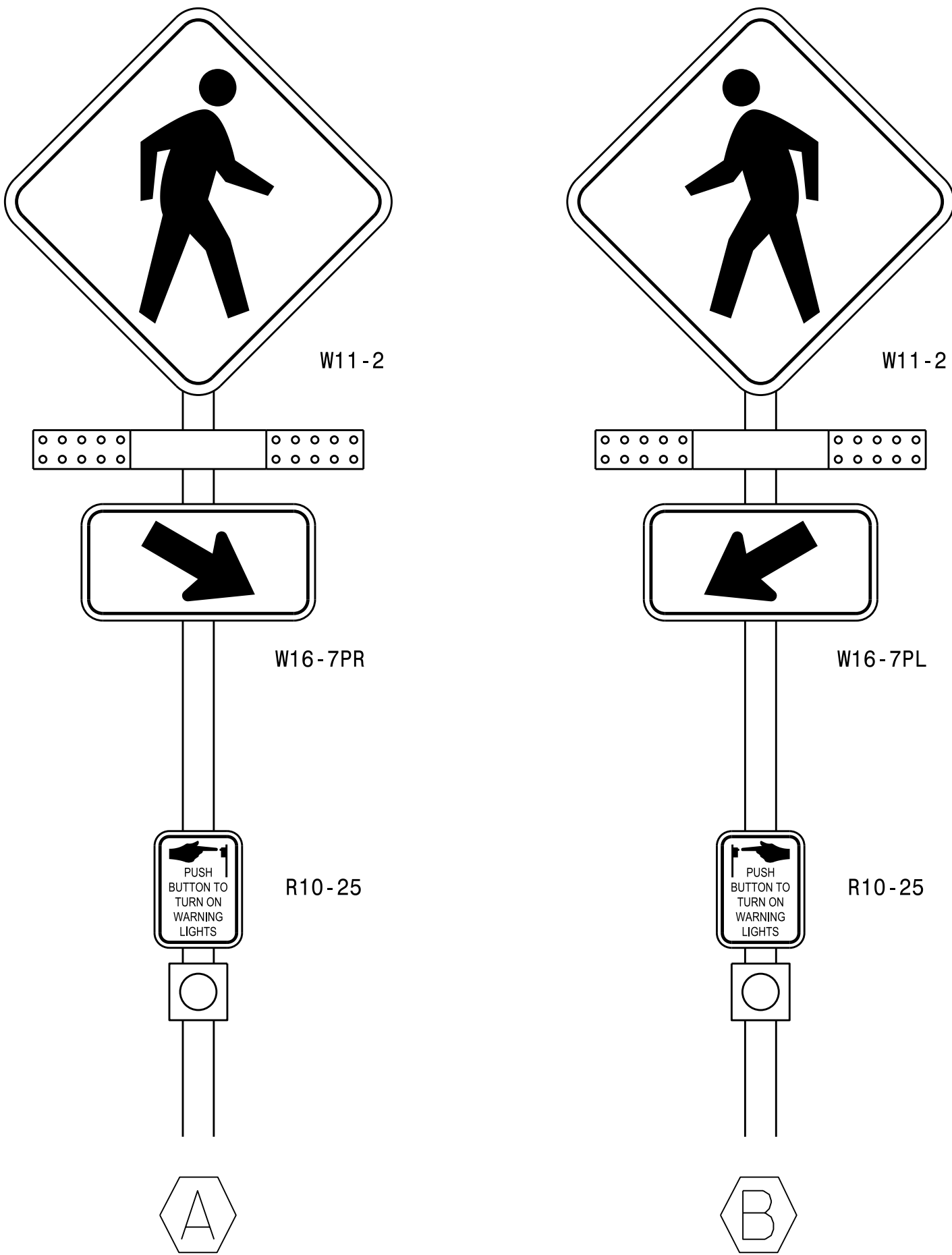
Electrical and Programming Details For:	US 19-23 Business / SR 3548 (Haywood Road) at I-26 WB / I-240 EB Ramps	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
Prepared for the Offices of:	Division 13 Buncombe County Asheville	SEAL
	PLAN DATE: May 2026 PREPARED BY: M W Yalch REVIEWED BY: J O Deaton	
750 N. Greenfield Pkwy, Garner, NC 27529	REVISIONS INIT. DATE	DocuSigned by: James O. Deaton 40FF8AC430BD40F 8/10/2026 DATE SIG. INVENTORY NO. 13-0218

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	Sig.14.0

Two to Four Lanes, Undivided



RRFB Sign Detail



Notes

- Design the RRFB in accordance with the 2023 MUTCD, 11th Edition, Chapter 4L: Rectangular Rapid Flashing Beacons. The Rectangular Rapid Flashing Beacon (RRFB) unit associated with a post-mounted sign and plaque should be located between the pedestrian crossing warning (W11-2) sign and the supplemental downward diagonal arrow plaque (W16-7p).
- If needed, a supplemental RRFB with an "AHEAD" (W16-9P) or distance (W16-2P) plaque may be installed on the approach in advance of the crosswalk. The additional RRFB shall be a supplemental to and not a replacement for the RRFB at the actual crosswalk.
- When practical, the RRFB and mounting post on the right side of the road shall be mounted on the approach side of the crosswalk closest to approaching traffic.
- When practical, the RRFB and mounting post on the left side of the road may be mounted on the back of the post for the opposing approach.
- A RRFB on the left side of the roadway or in the median may be individually mounted on the approach side of the crosswalk closest to approaching traffic, or, when practical, may be mounted back to back on the same post and mounted on either side of the crosswalk in the median.
- Locate push button sign (R10-25) and push button to face crosswalk, even if it is mounted on the back side of the sign.
- All RRFB units associated with a given crosswalk (including those with an advance crossing sign) shall, when actuated, simultaneously commence operation of their rapid-flashing indications and shall cease operation simultaneously.
- If an audible information device is used in conjunction with an RRFB, the audible message should be a speech message that says "Warning lights are flashing." The audible message should be spoken twice. The audible information device shall not use vibrotactile or percussive indications.
- For quantitative purposes, a single sided, post mounted RRFB is one assembly unit. A double sided RRFB mounted on the same post is counted as two (2) assemblies.
- For additional information, see Version 24 of the Transportation Systems Management and Operations (TSMO) Unit Project Special Provisions (PSP).

Timing of RRFBs

When actuated, the two yellow indications in each RRFB unit shall flash in a rapidly flashing sequence.

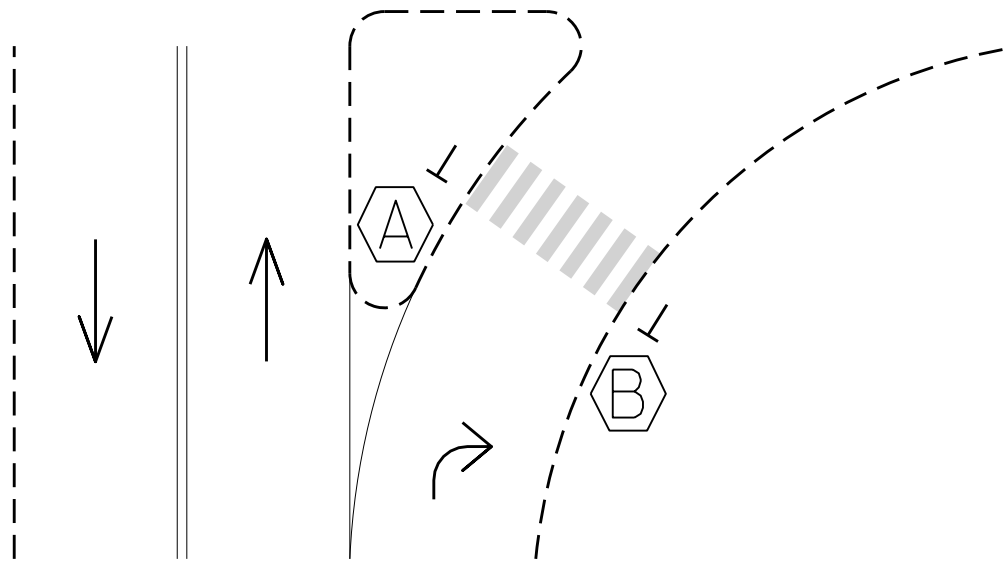
The RRFB shall flashing sequence shall provide enough time for pedestrians to cross from curb to curb. It is recommended to be a minimum of 7 seconds plus the crossing distance (D) divided by 3.5 feet/per sec., rounded up to the next whole second:

Flash Time (sec.) = 7 + D/3.5

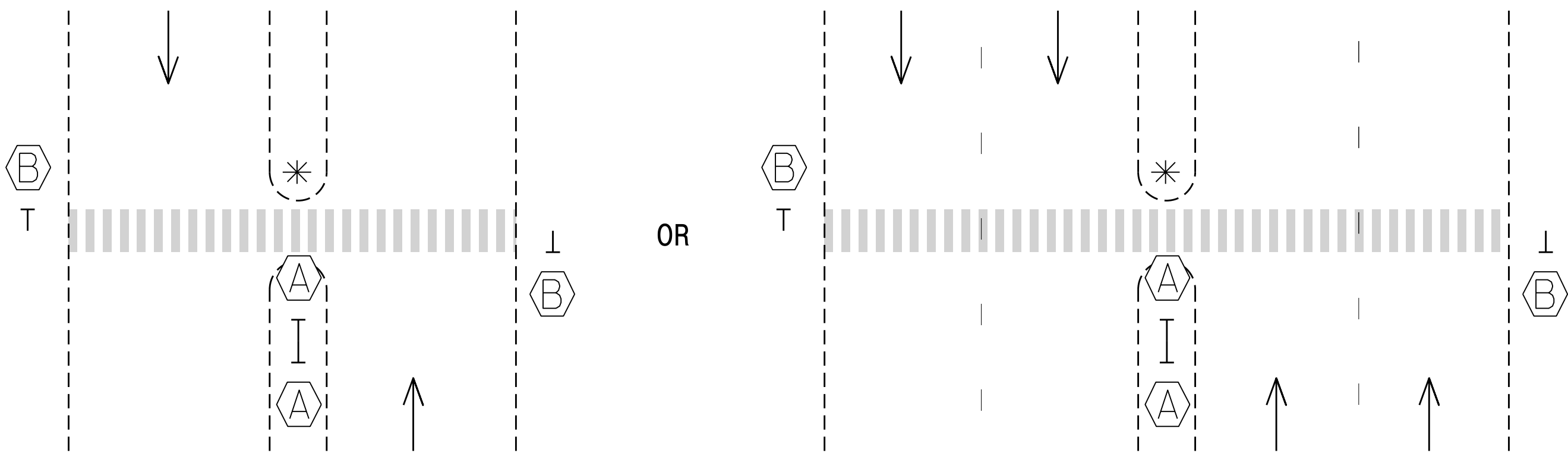
Per Section 4L.03 of the 2023 MUTCD, RRFBs shall provide 75 flashing sequences per minute. During each 800 millisecond flashing sequence, the left and right RRFB indications shall operate using the following sequence:

- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 250 milliseconds.

Slip Lanes



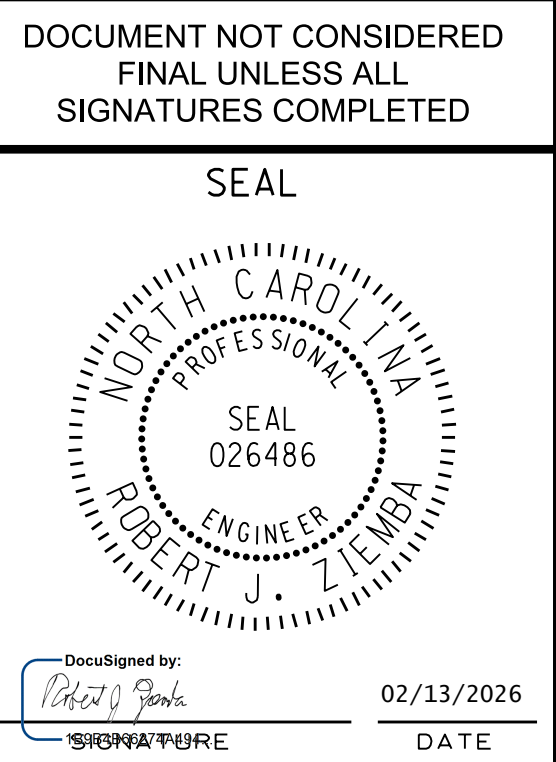
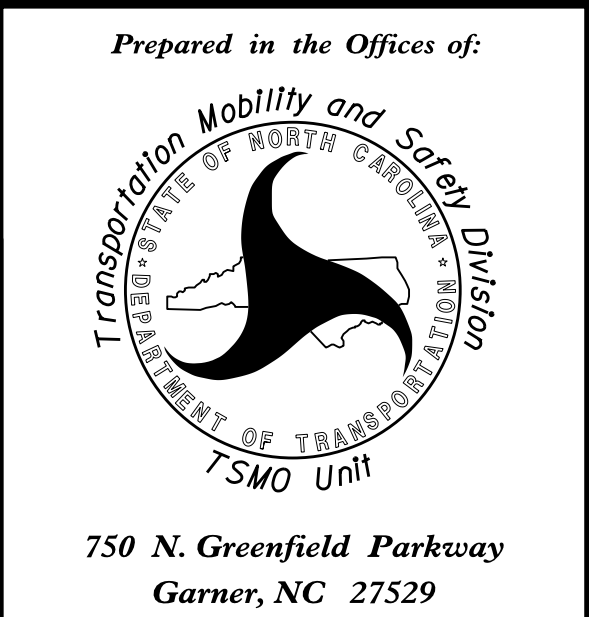
Two or Multi-Lanes, Divided



* See Note 5

* See Note 5

Standard Drawing for
Rectangular Rapid
Flashing Beacon

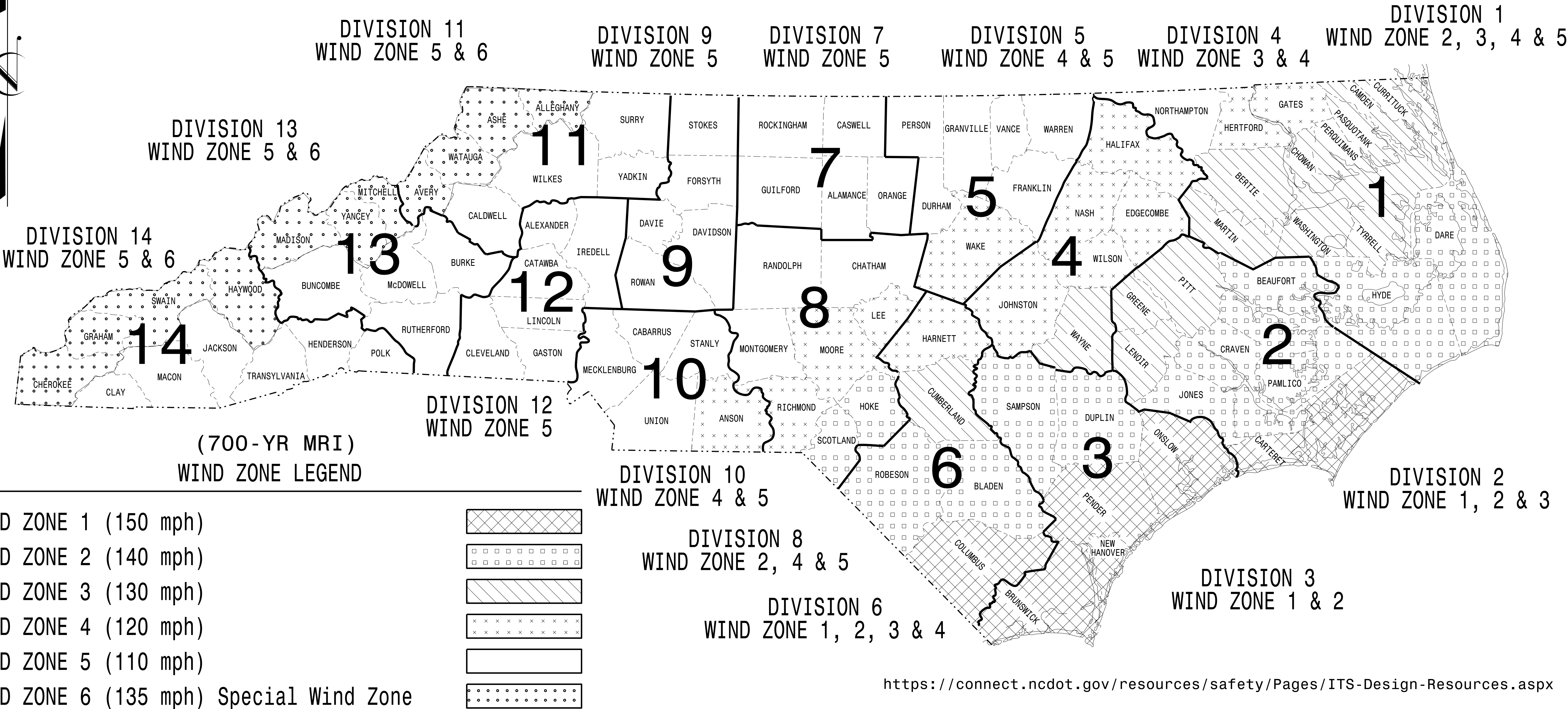


PROJECT I.D.NO.	SHEET NO.
I-2513AC	Sig.M1A

NCDOT METAL POLE STANDARDS

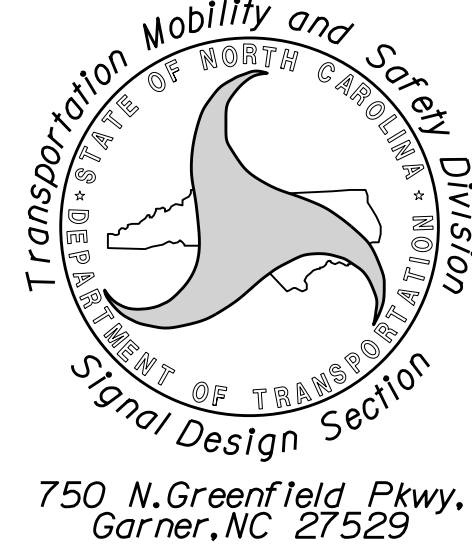
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STANDARD DRAWINGS FOR ALL METAL POLES (LRFD)



<https://connect.ncdot.gov/resources/safety/Pages/ITS-Design-Resources.aspx>

Prepared In the Offices of:



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
NUMBER

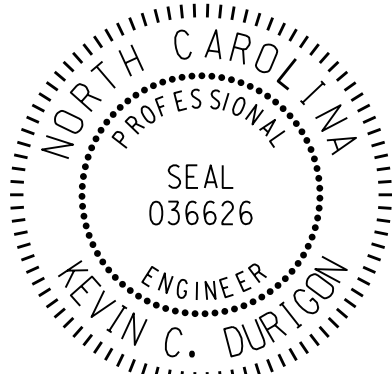
DRAWING NUMBER	DESCRIPTION
Sig. M 1A	Statewide Wind Zone Map (700-yr MRI)
Sig. M 1B	Statewide Wind Zone Map (10-yr MRI)
Sig. M 2	Typical Fabrication Details-All Metal Poles
Sig. M 3	Typical Fabrication Details-Strain Poles
Sig. M 4	Typical Fabrication Details-Mast Arm Poles
Sig. M 5	Typical Fabrication Details-Mast Arm Connection
Sig. M 6	Typical Fabrication Details-Strain Pole Attachments
Sig. M 7	Construction Details-Foundations
Sig. M 8	Standard Strain Pole Foundation-All Soil Conditions
Sig. M 9	Typical Fabrication Details-CCTV Camera Poles

INDEX OF PLANS
DESCRIPTION

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

SEAL



DocuSigned by:

Kevin Durigon
SIGNATURE
4B23DC79B3764DA

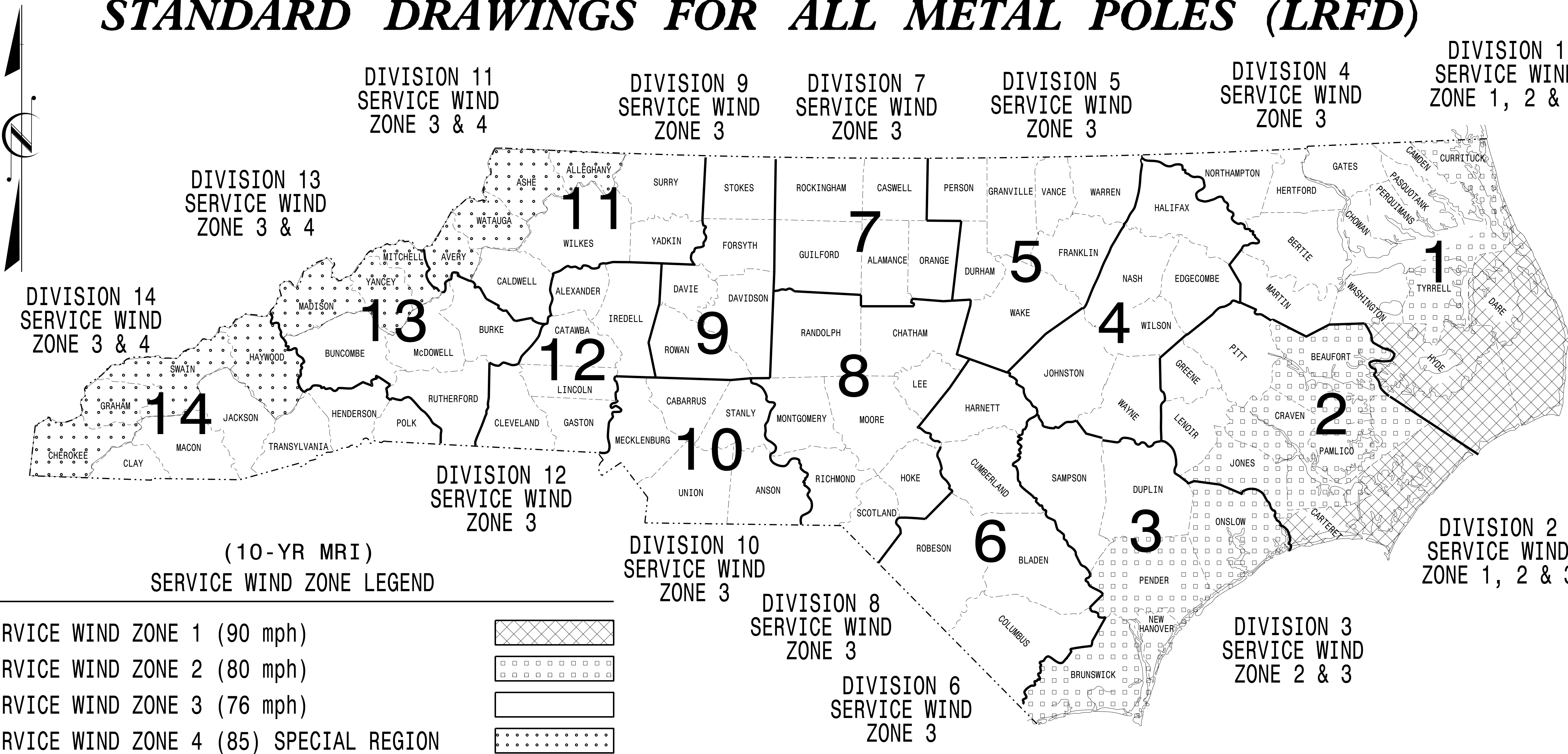
09/21/2023
DATE

PROJECT I.D.NO.	SHEET NO.
I-2513AC	Sig.M1B

NCDOT METAL POLE STANDARDS

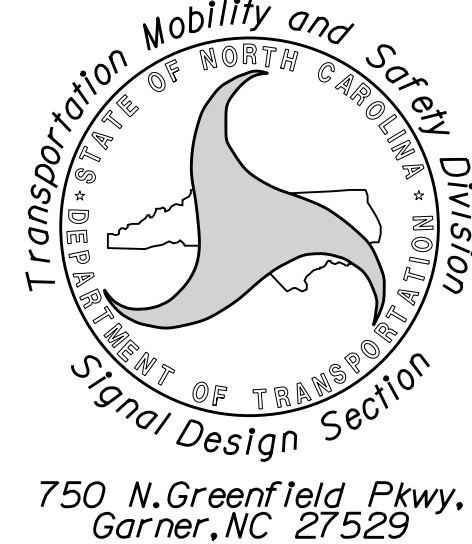
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STANDARD DRAWINGS FOR ALL METAL POLES (LRFD)



<https://connect.ncdot.gov/resources/safety/Pages/ITS-Design-Resources.aspx>

Prepared In the Offices of:



750 N. Greenfield Pkwy.
Garner, NC 27529

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

**AASHTO
LRFD**

Standard Specifications for
Highway Signs, Luminaires,
and Traffic Signals

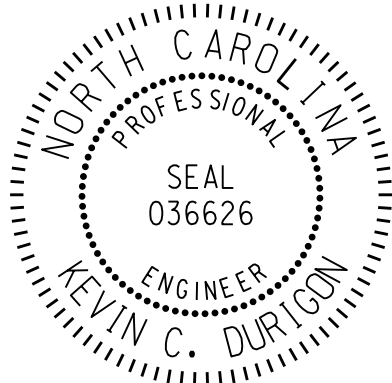
DRAWING
NUMBER

	INDEX OF PLANS DESCRIPTION
Sig. M 1A	Statewide Wind Zone Map (700-yr MRI)
Sig. M 1B	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
Sig. M 7	Construction Details-Foundations
Sig. M 8	Standard Strain Pole Foundation-All Soil Conditions
Sig. M 9	Typical Fabrication Details-CCTV Camera Poles

NCDOT CONTACTS:
MOBILITY AND SAFETY DIVISION -
TRANSPORTATION SYSTEMS MANAGEMENT
AND OPERATIONS UNIT

D.Y. ISHAK - STATE SIGNALS ENGINEER
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B. WALKER, P.E. - ITS AND SIGNALS STRUCTURAL ENGINEER

SEAL

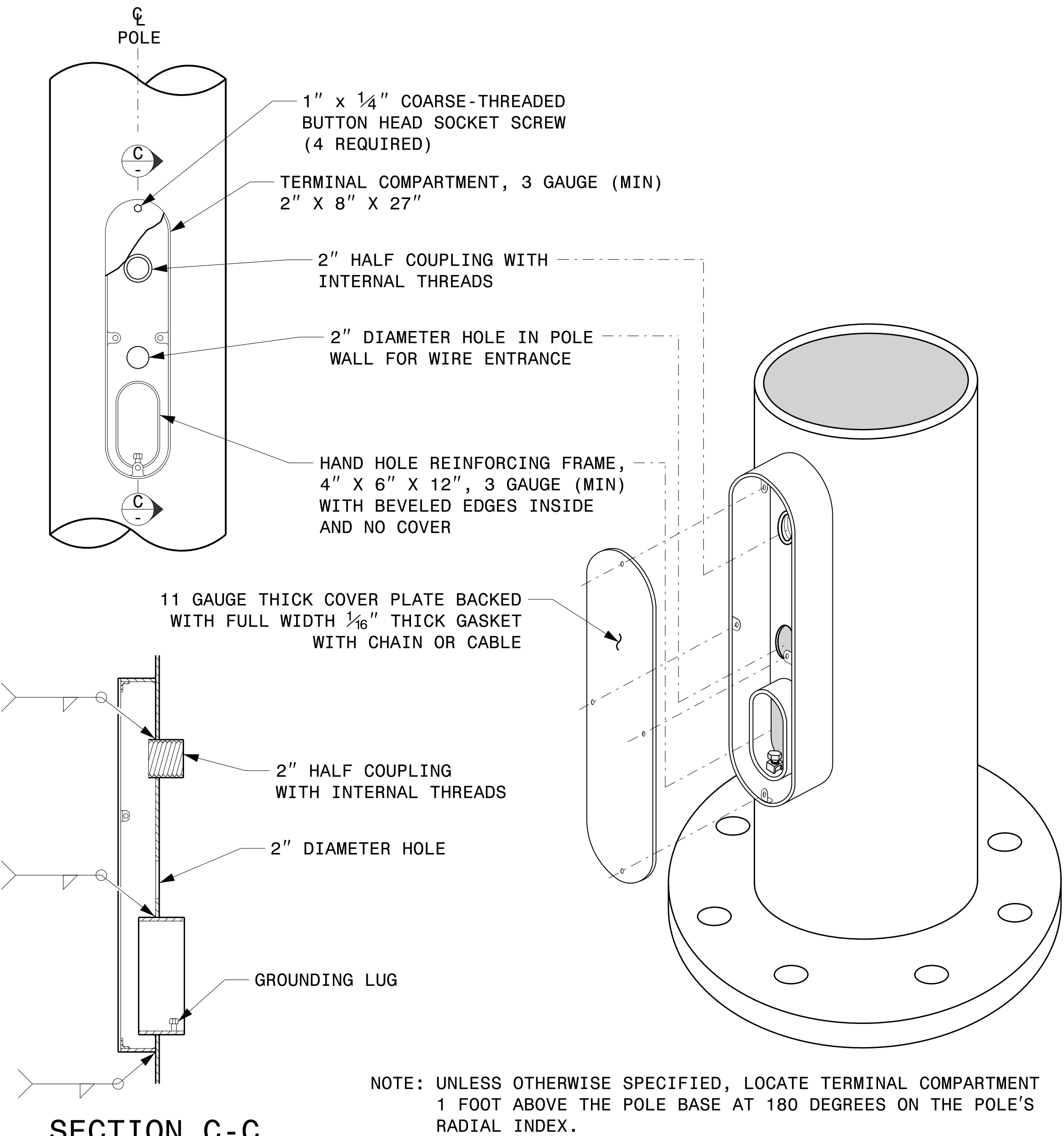


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Kevin Durigon
SIGNATURE
4B23DC79B3784DA

09/21/2023
DATE

09-001-2023 19-294
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Kedar Figon



TERMINAL COMPARTMENT DETAIL

○	MFG _____ MFG. DATE: MM/YY	○
	SHAFT D/T/L/Y _____	
	ARM-A D/T/L/Y _____	

	ARM-B D/T/L/Y _____	

	A.B. DIA./B.C./L/Y _____	
	NCDOT SIG. INV. NO. _____	
	NCDOT POLE NO. _____	
○		○

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

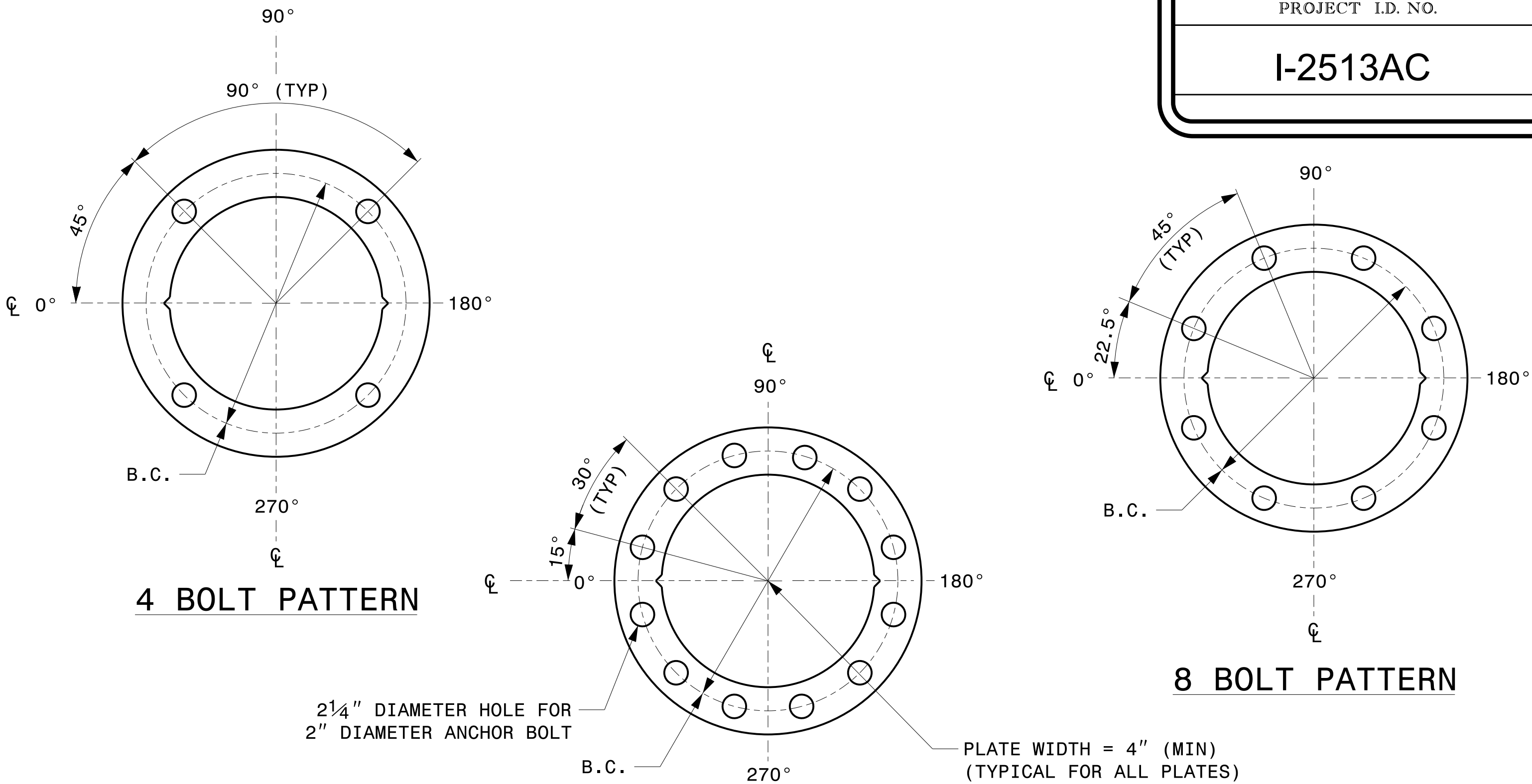
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	SECTION D/T/L/Y _____	
	NCDOT SIG. INV. NO. _____	
	NCDOT POLE NO. _____	
○		○

ARM I.D. TAG
(PROVIDE ON EACH SECTION OF
A MULTI-SECTION MAST ARM)

NOTES:

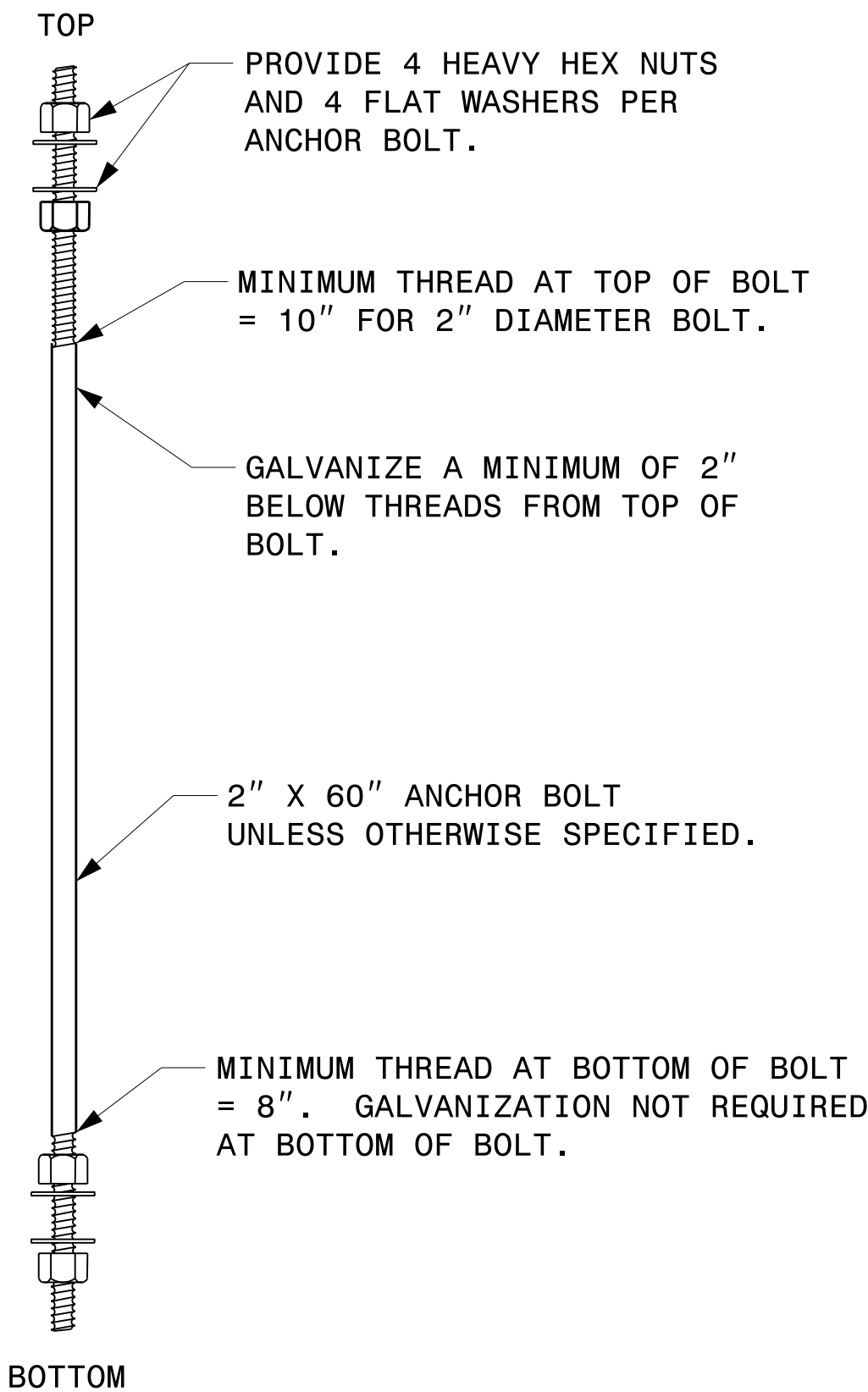
1. D = DIAMETER, T = THICKNESS, L = LENGTH, Y = YIELD STRENGTH
2. A.B. = ANCHOR BOLT
3. B.C. = BOLT CIRCLE OF ANCHOR BOLTS
4. IF STANDARD DESIGN, INCLUDE CASE NUMBER IN ADDITION TO POLE NUMBER ON "NCDOT POLE NO." LINE.
5. SIGNAL INV. NUMBER AND POLE I.D. NUMBER.
SEE DRAWING M3 AND M4 FOR MOUNTING POSITIONS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

IDENTIFICATION TAG DETAILS

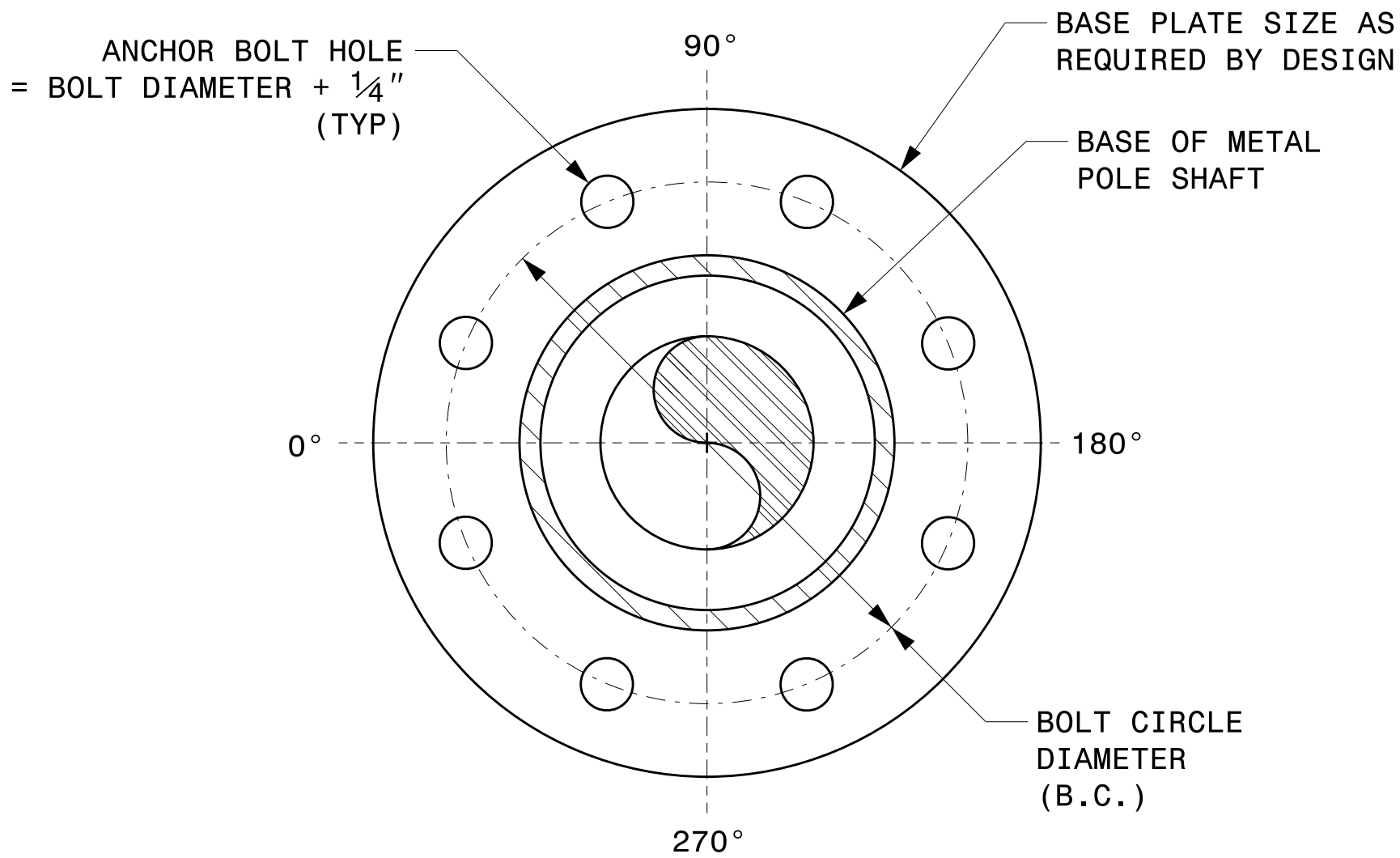


CONSTRUCT TEMPLATES AND PLATES FROM 1/4" (MIN) THICK STEEL. GALVANIZING IS NOT REQUIRED.

BASE PLATE TEMPLATE AND ANCHOR BOLT LOCK PLATE DETAILS



ANCHOR BOLT DETAIL



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

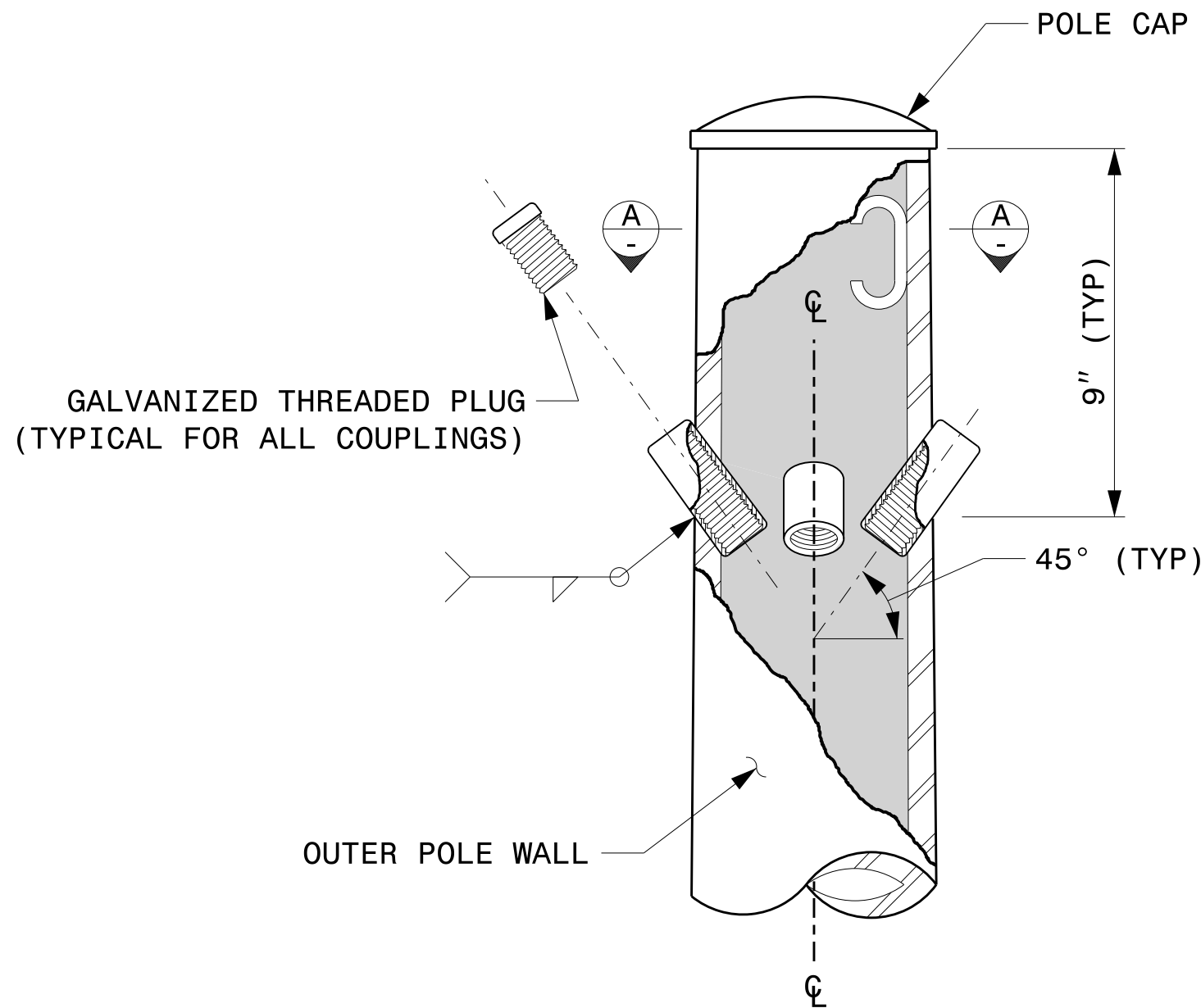
TYPICAL BASE PLATE DETAIL

Prepared In the Offices of: 750 N. Greenfield Pkwy, Garner, NC 27529	Typical Fabrication Details For All Metal Poles		SEAL DocuSigned by: 4B23DC79B3784DA	
	PLAN DATE: SEPTEMBER 2023	DESIGNED BY: C.F. ANDREWS		
	PREPARED BY: K.C. DURIGON	REVIEWED BY: D.C. SARKAR		
SCALE 0 NA NONE	REVISIONS	INIT.	DATE	

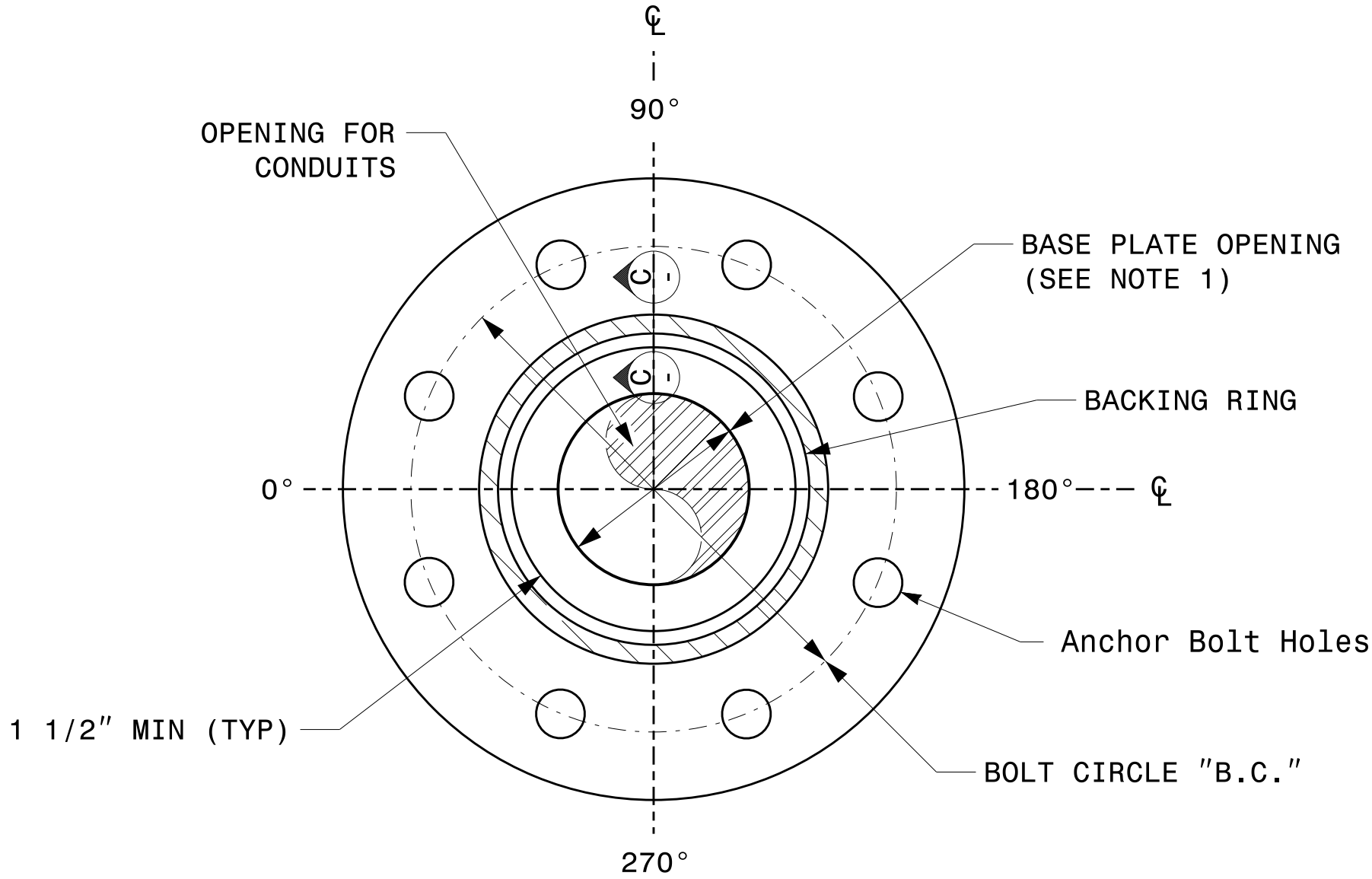
PROJECT I.D. NO.	SHEET NO.
I-2513AC	Sig.M3

NOTE:

1. OPENING IN POLE BASE PLATE SHALL BE EQUAL TO POLE BASE INSIDE DIAMETER MINUS $3\frac{1}{2}$ " BUT SHALL NOT BE LESS THAN $8\frac{1}{2}$ ".

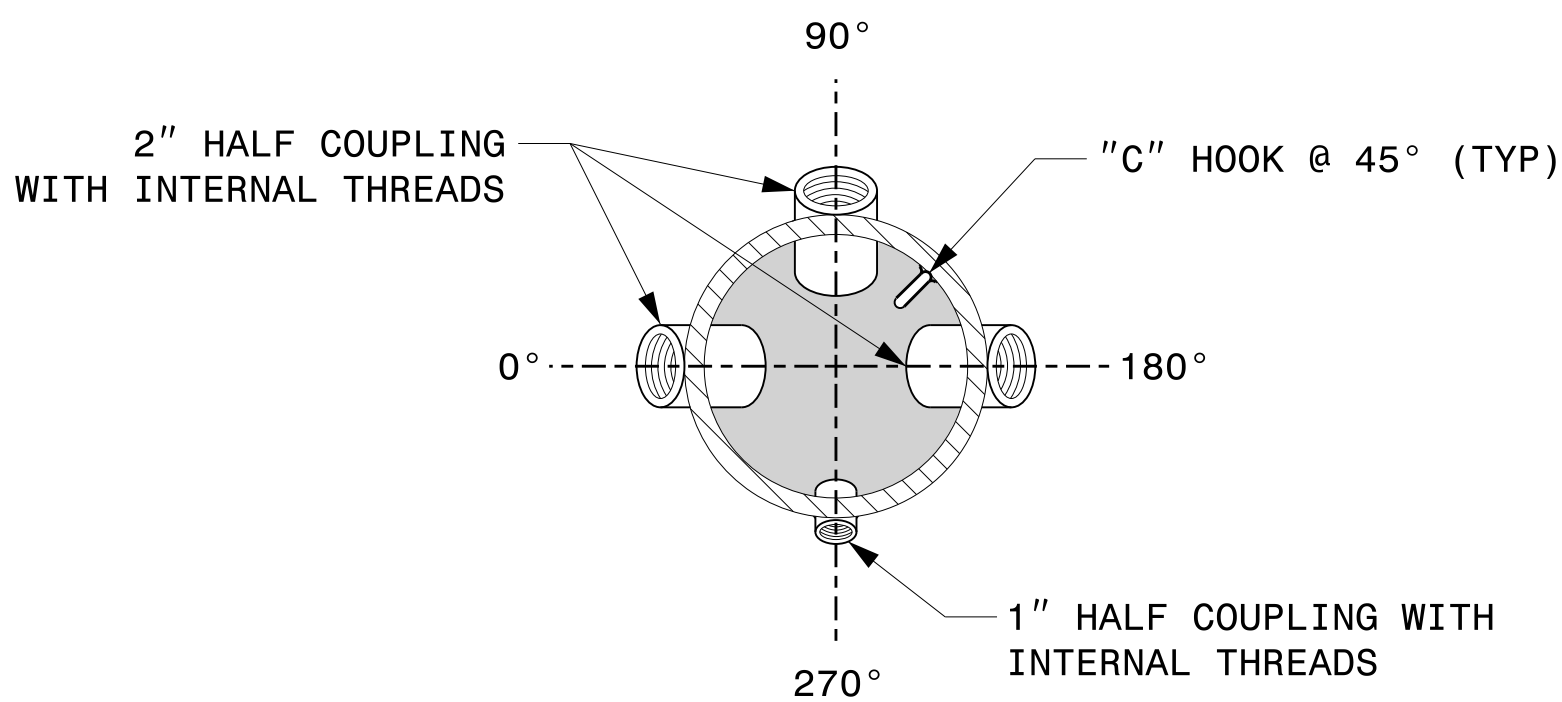


CABLE ENTRANCES AT TOP OF POLE



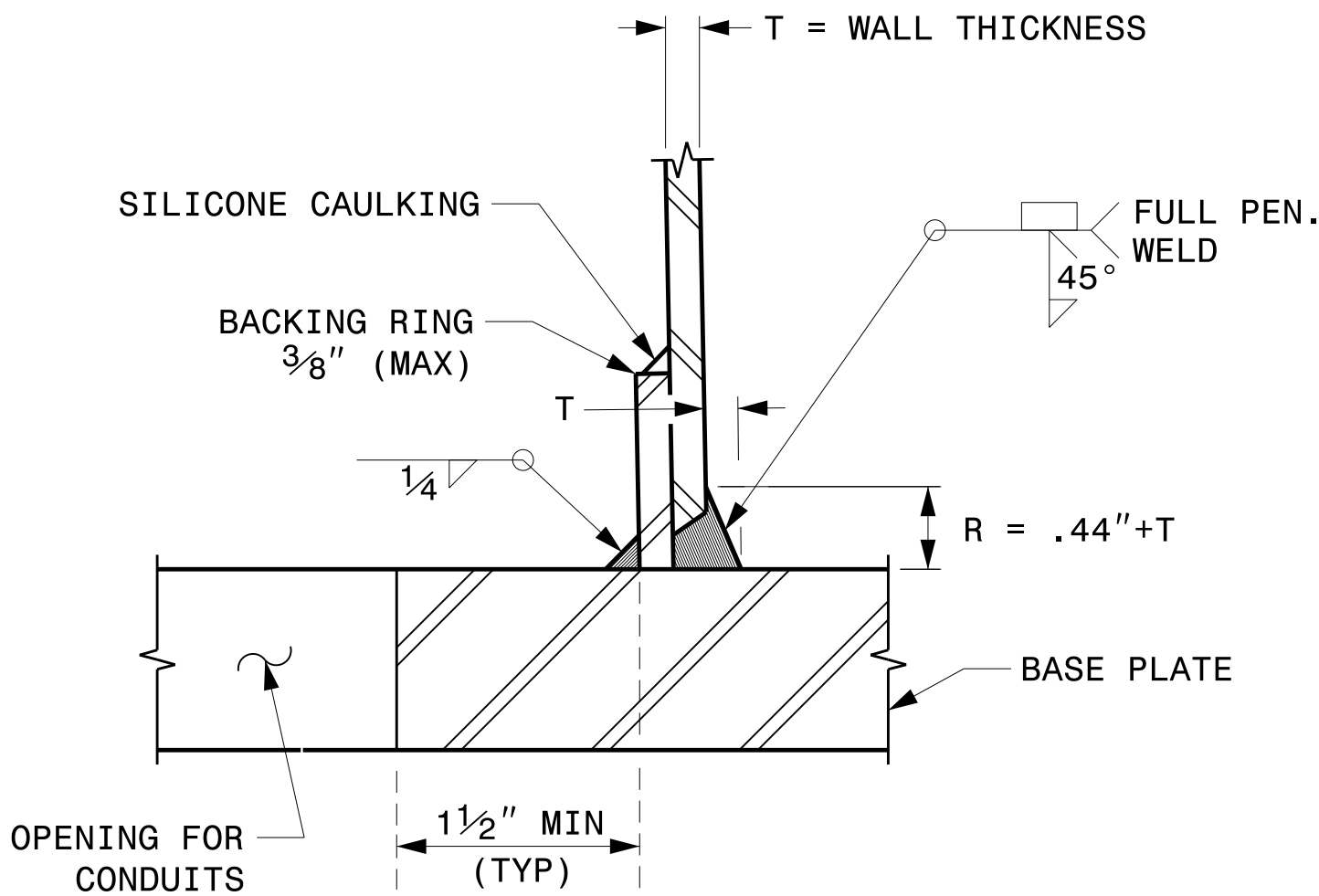
SECTION B-B

POLE BASE PLATE DETAILS
(8 AND 12 BOLT PATTERN)



SECTION A-A

RADIAL ORIENTATION OF FACTORY INSTALLED
ACCESSORIES AT TOP OF POLE

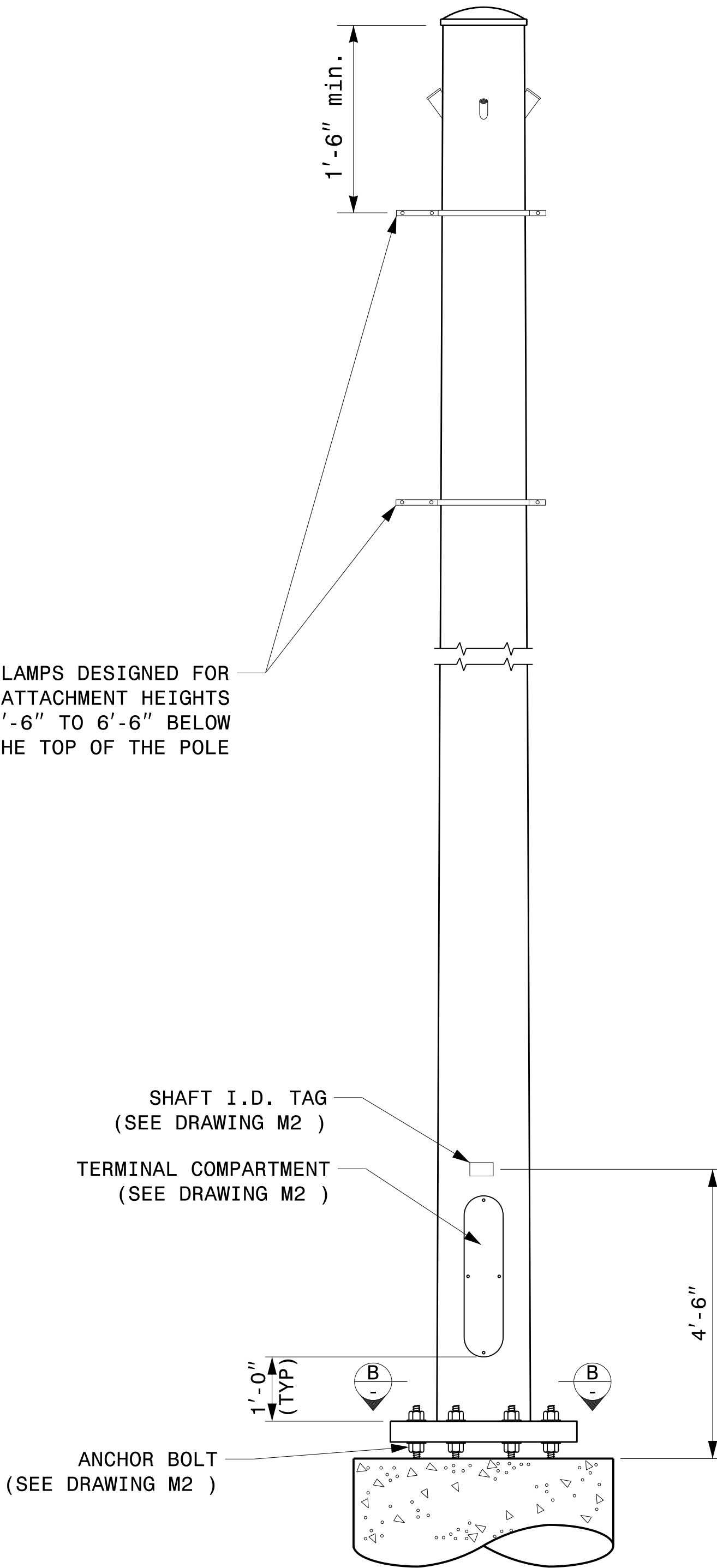


SECTION C-C

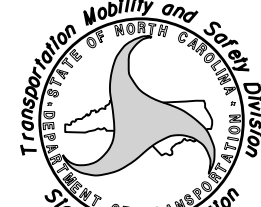
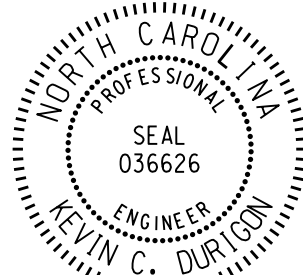
(POLE ATTACHMENT TO BASE PLATE)

FULL-PENETRATION
GROOVE WELD DETAIL

2 CABLE CLAMPS DESIGNED FOR
VARIABLE ATTACHMENT HEIGHTS
FROM 1'-6" TO 6'-6" BELOW
THE TOP OF THE POLE



MONOTUBE STRAIN POLE

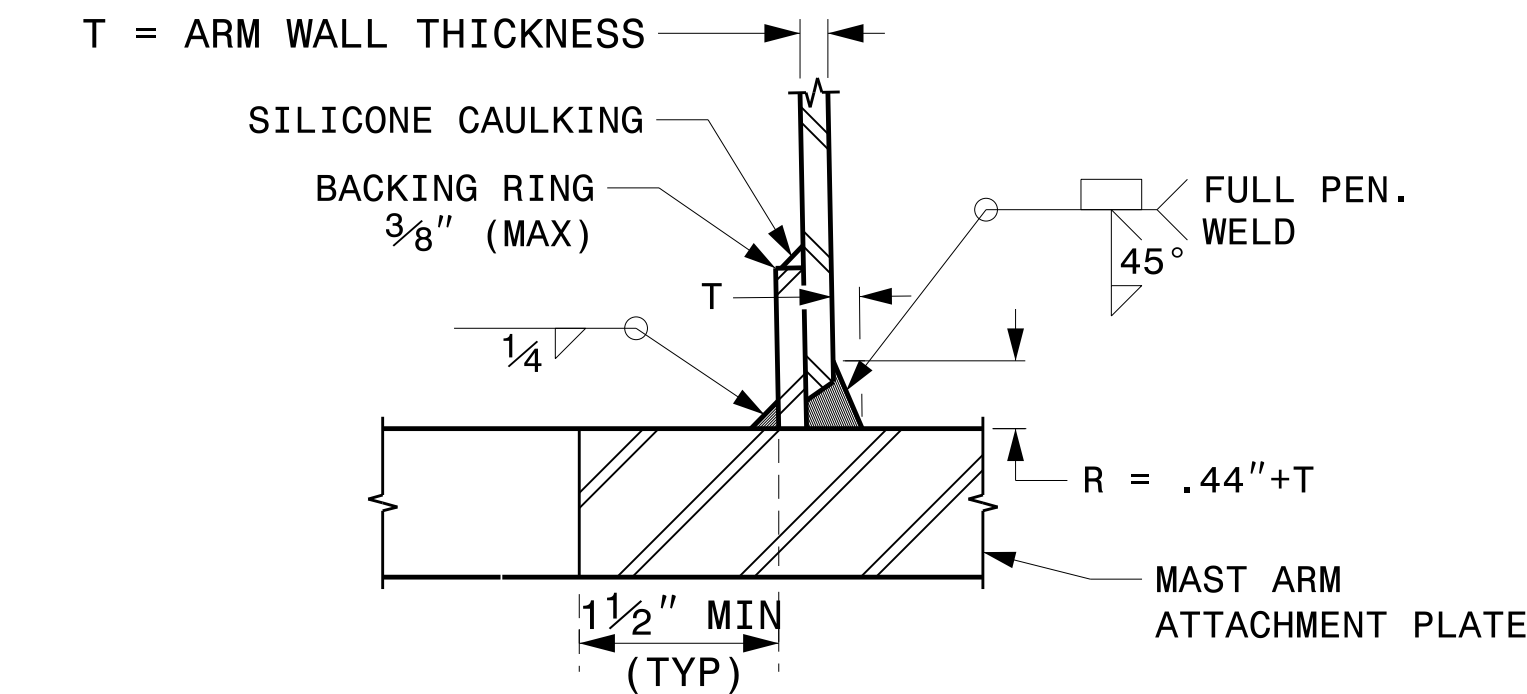
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	PLAN DATE: SEPTEMBER 2023		DESIGNED BY: K.C. DURIGON			
	PREPARED BY: K.C. DURIGON		REVIEWED BY: D.C. SARKAR			
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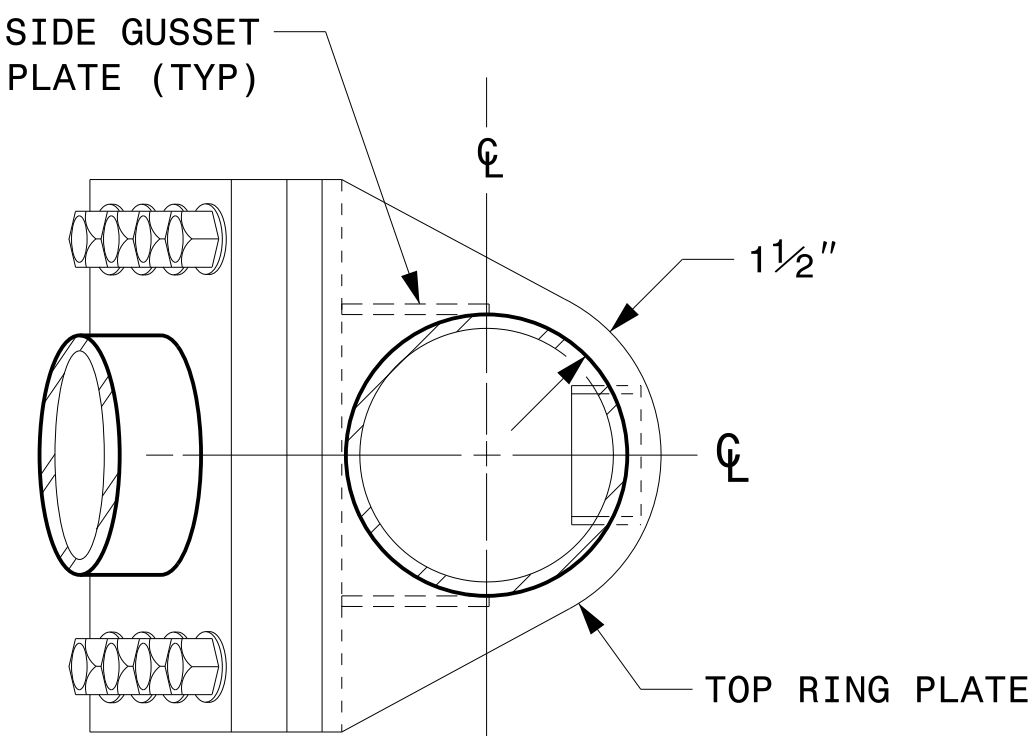
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Kedur.fgn

WELDED RING STIFFENED MAST ARM CONNECTION

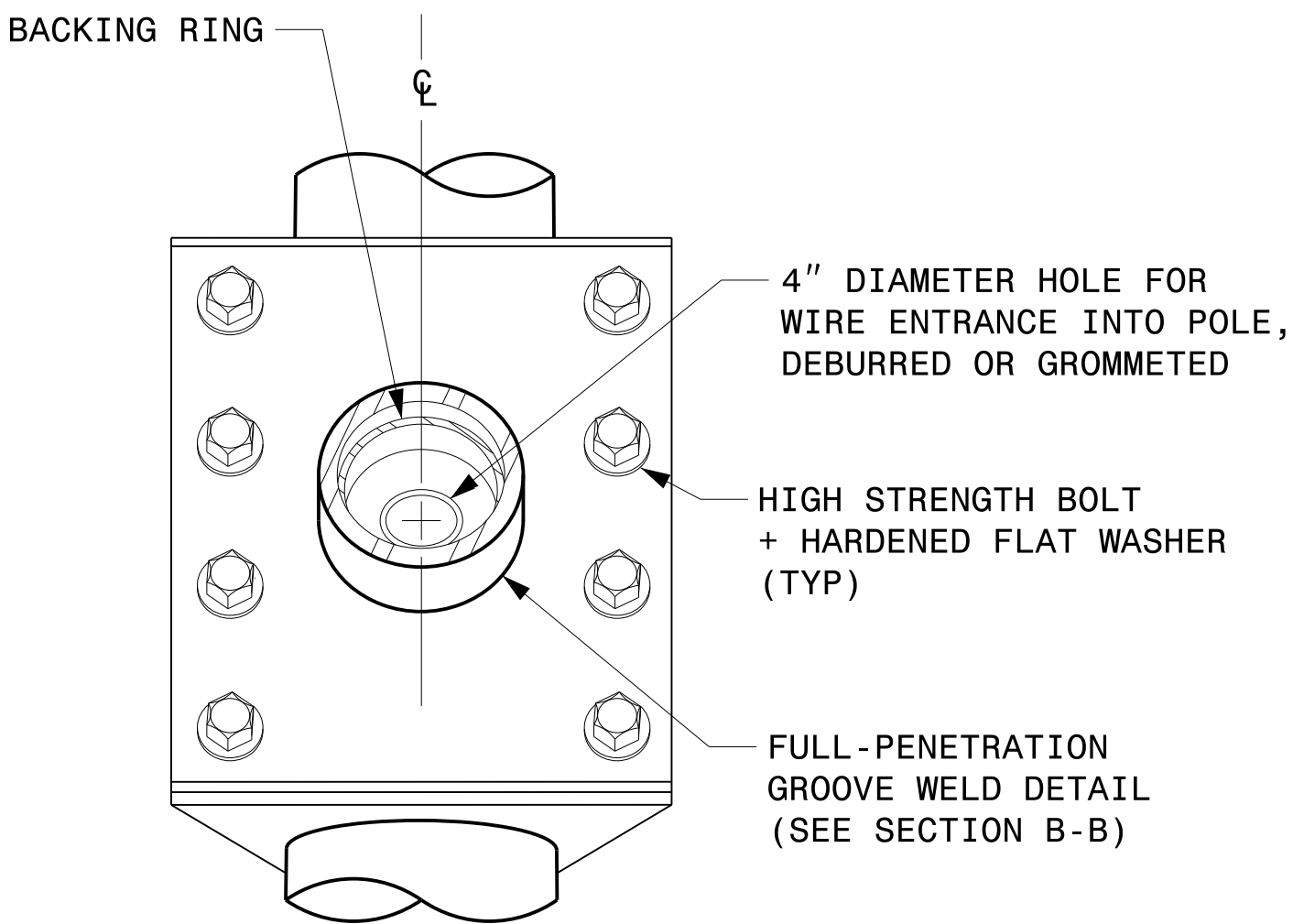
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I-2513AC	Sig.M5



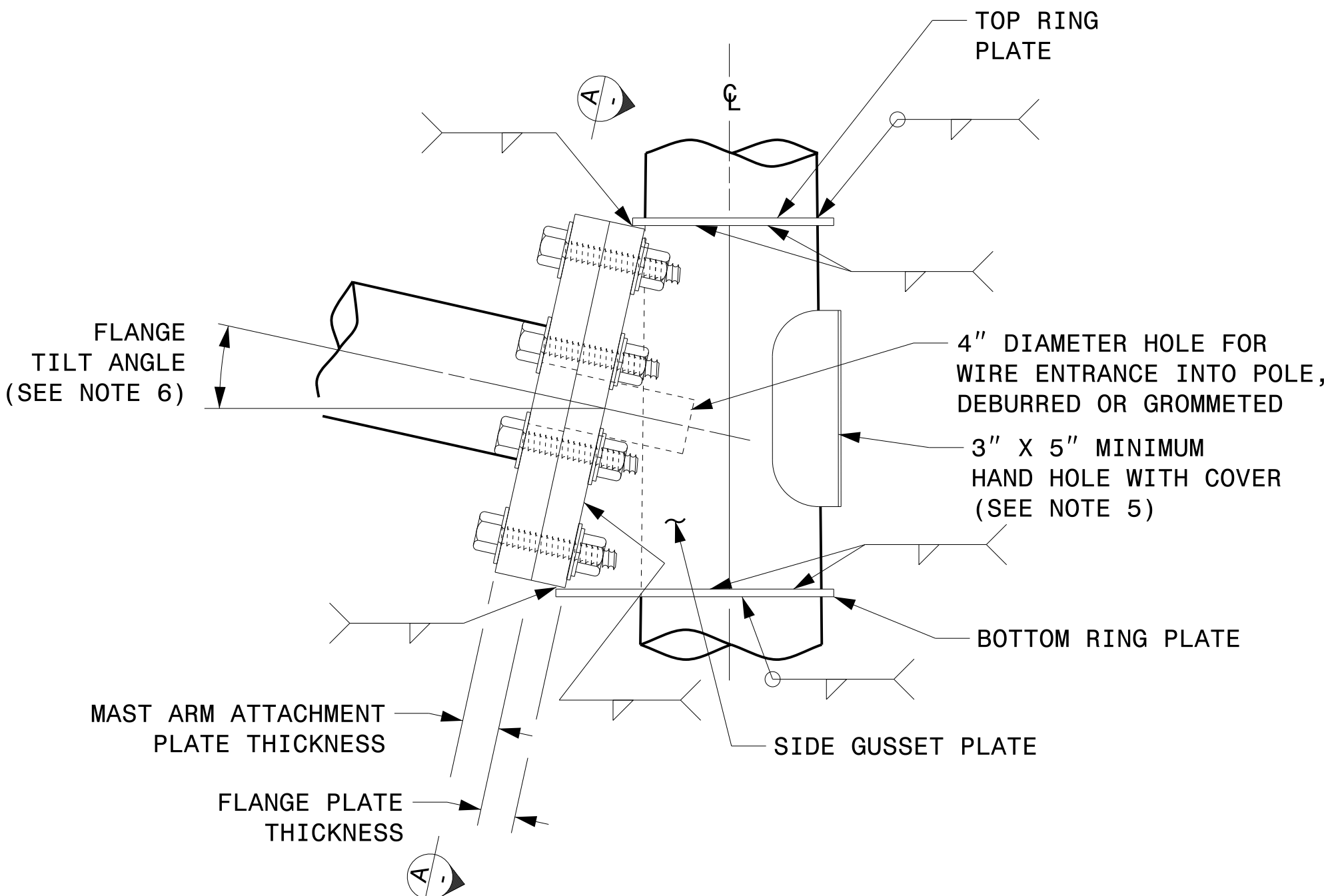
SECTION B-B
FULL-PENETRATION GROOVE WELD DETAIL



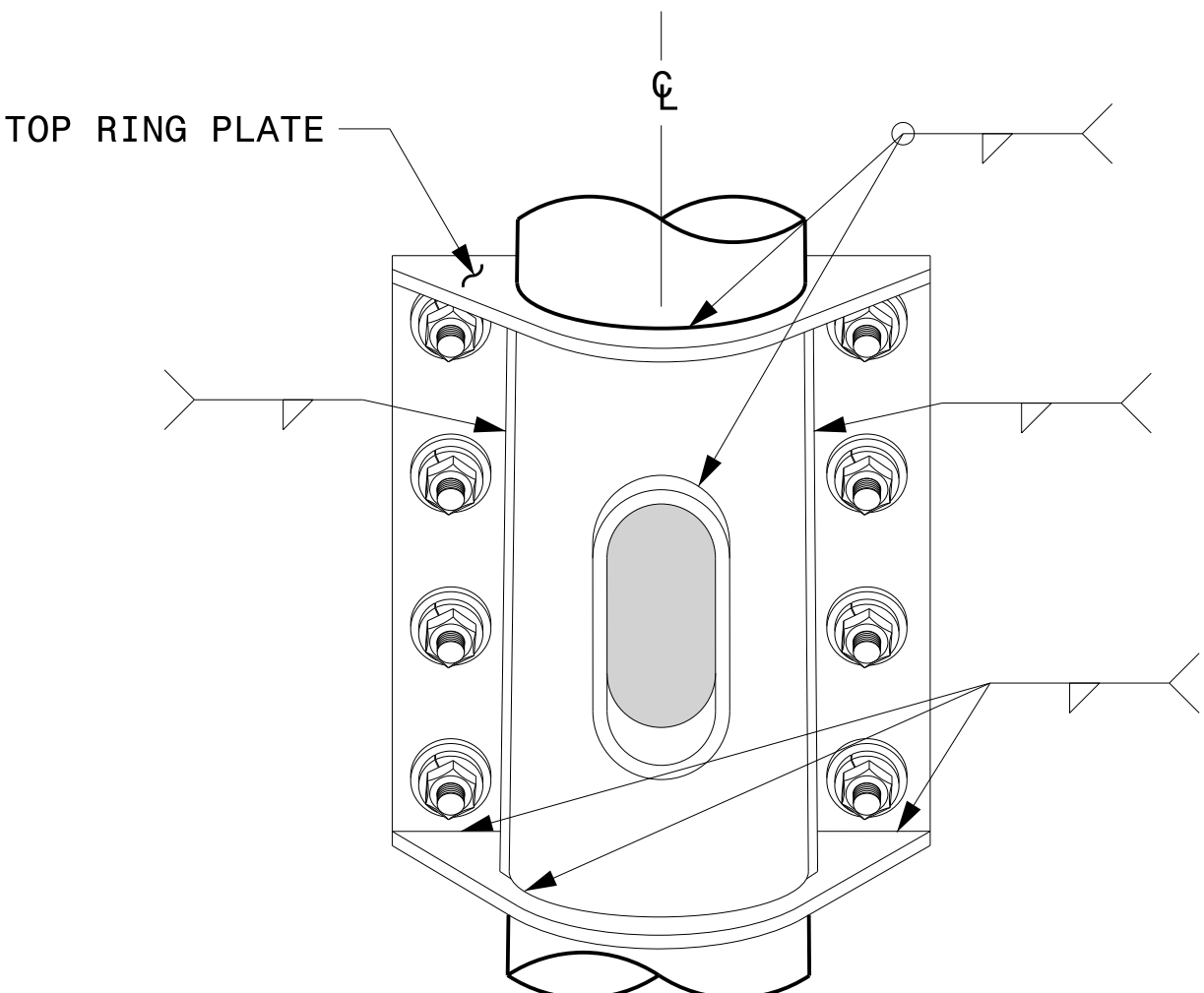
PLAN VIEW



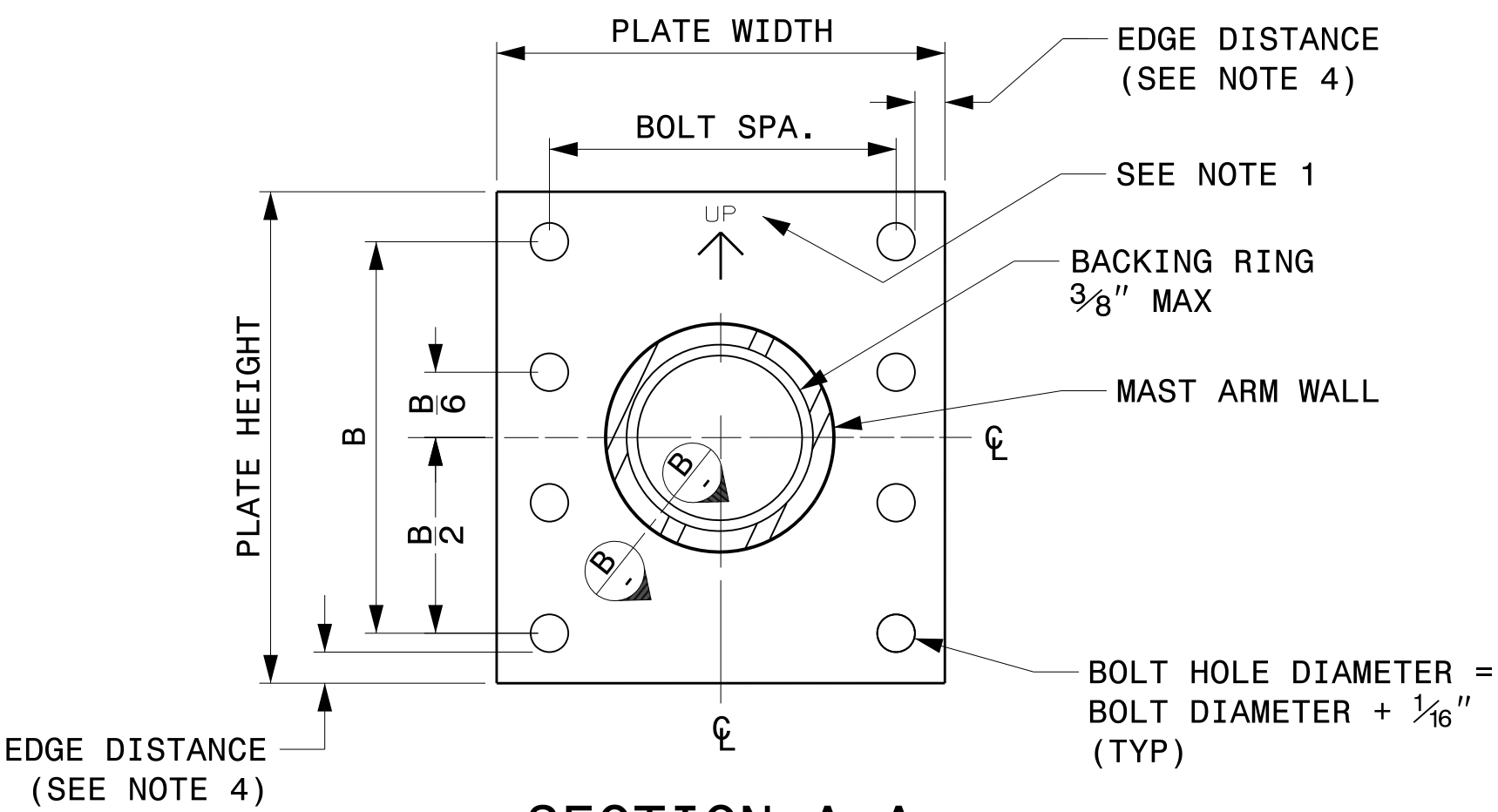
FRONT ELEVATION VIEW



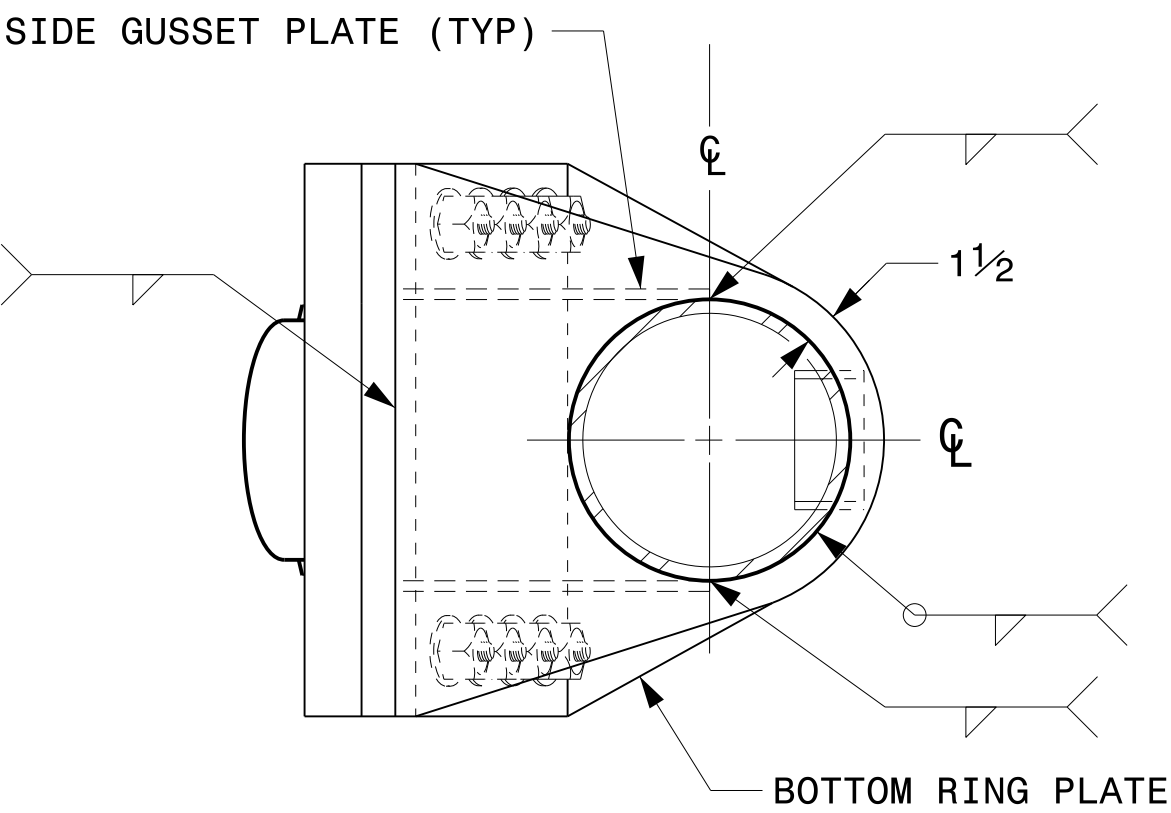
SIDE ELEVATION VIEW



BACK ELEVATION VIEW



SECTION A-A
MAST ARM ATTACHMENT PLATE



BOTTOM 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.

Prepared In the Offices of:

TRANSPORTATION MOBILITY AND SAFETY

DEPARTMENT OF TRANSPORTATION

Signal Design Section

750 N. Greenfield Pkwy, Garner, NC 27529

Typical Fabrication Details
For
Mast Arm Connection To Pole

PLAN DATE: SEPTEMBER 2023 DESIGNED BY: C.F. ANDREWS
PREPARED BY: K.C. DURIGON REVIEWED BY: D.C. SARKAR

REVISIONS

SCALE: 0 NA NONE

SEAL

KEVIN C. DURIGON

PROFESSIONAL ENGINEER

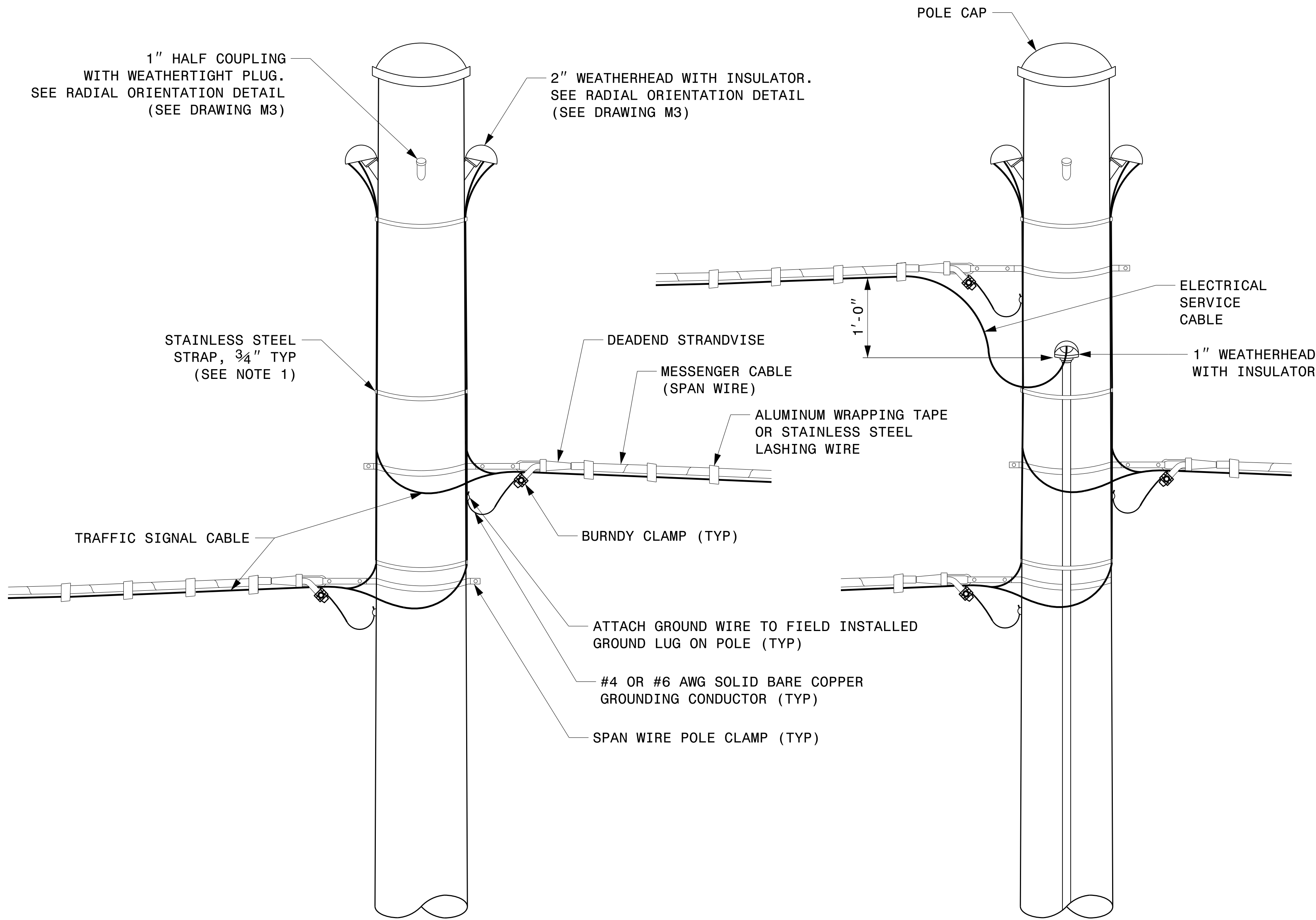
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Kevin Durigon

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09/21/2023
DATE

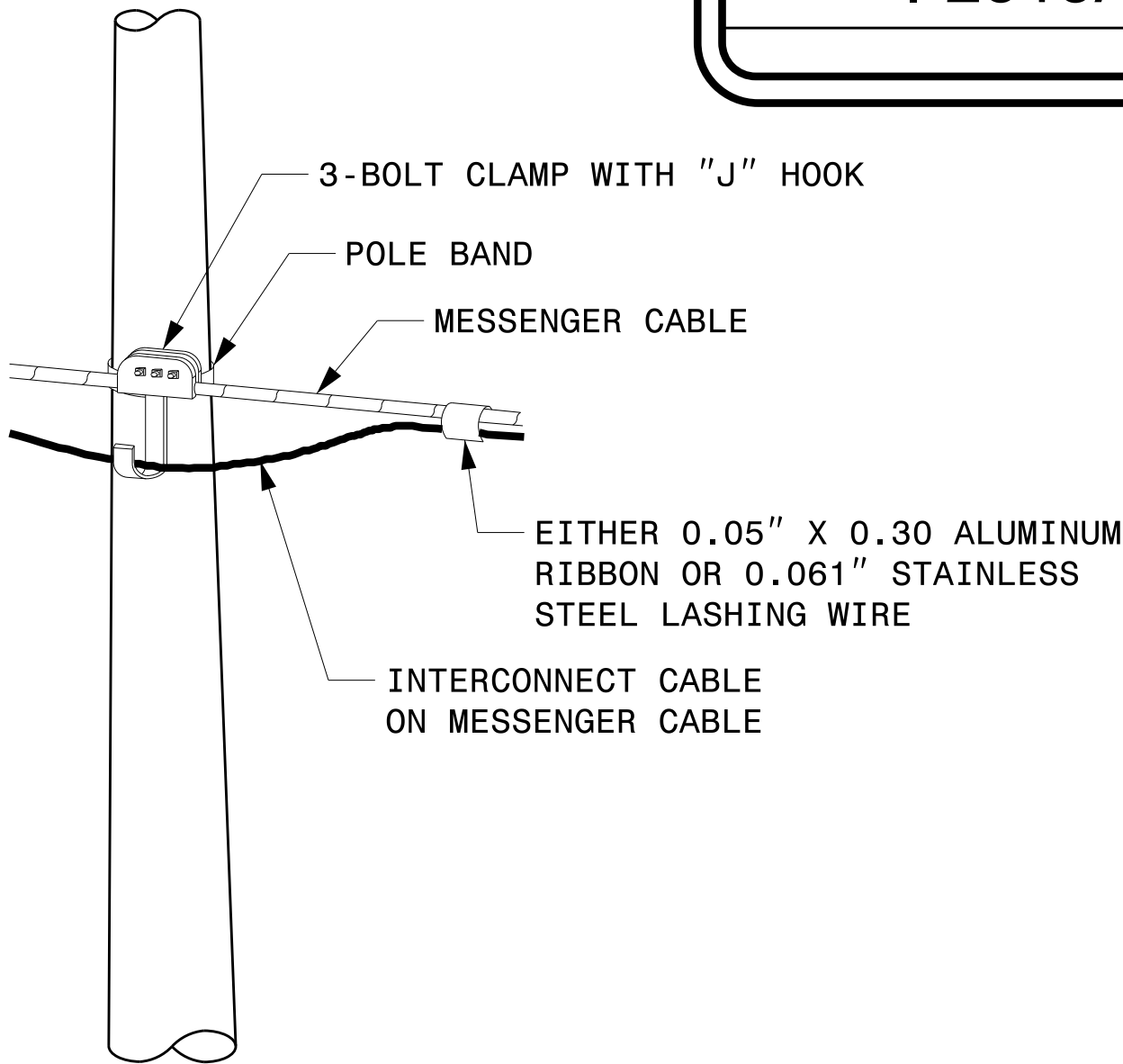
PROJECT I.D. NO.	SHEET NO.
I-2513AC	Sig.M6



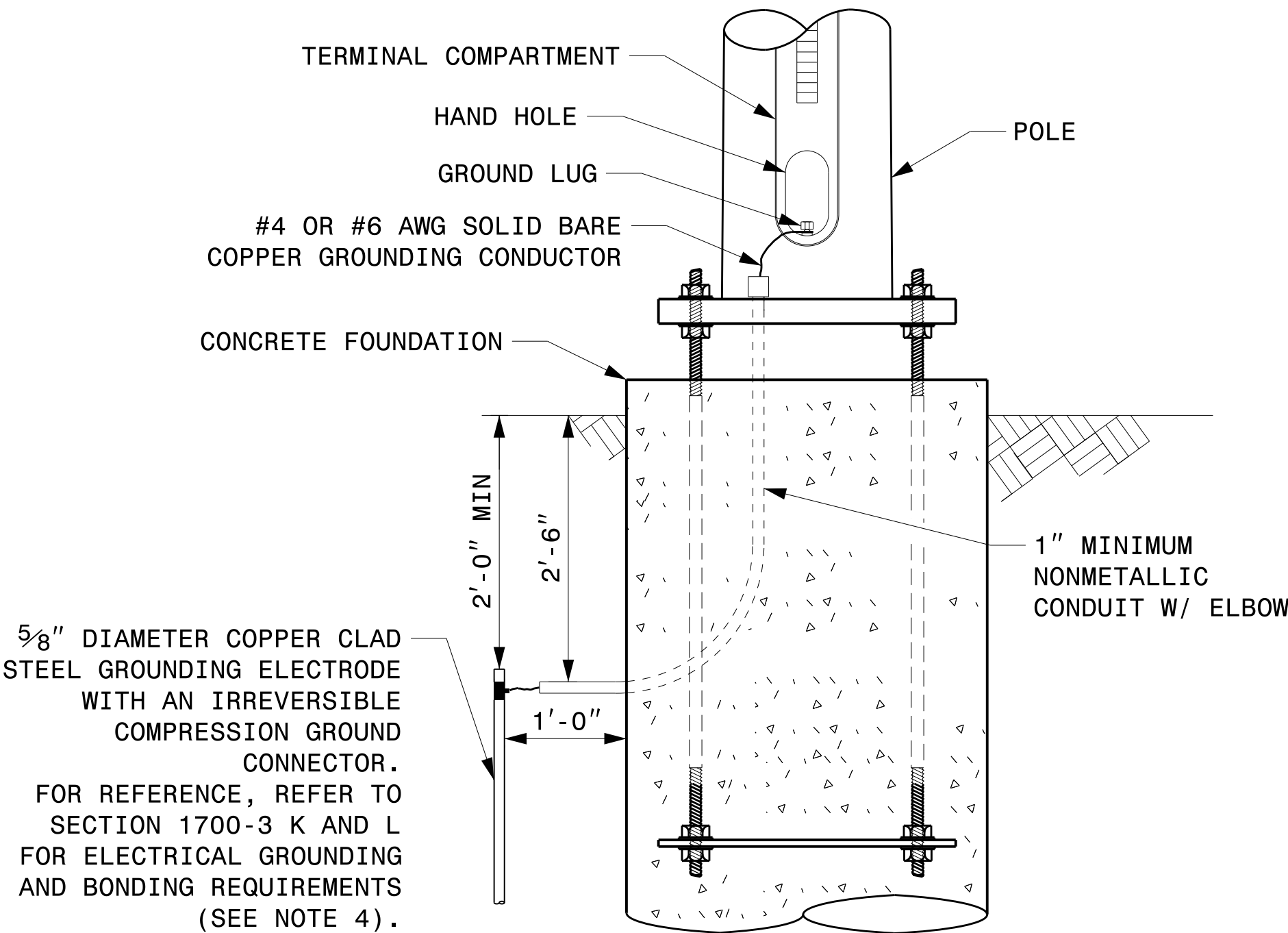
STRAIN POLE ATTACHMENTS

NOTES:

1. STRAP ALL SIGNAL CABLES TO THE SIDE OF THE POLE WITH 3/4" 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

Prepared In the Offices of:

750 N.Greenfield Pkwy,Garner,NC 27529

SCALE

0 NA

NONE

Typical Fabrication Details For Strain Pole Attachments			
PLAN DATE:	SEPTEMBER 2023	DESIGNED BY:	C.F. ANDREWS
PREPARED BY:	K.C. DURIGON	REVIEWED BY:	D.C. SARKAR
REVISIONS		INIT.	DATE

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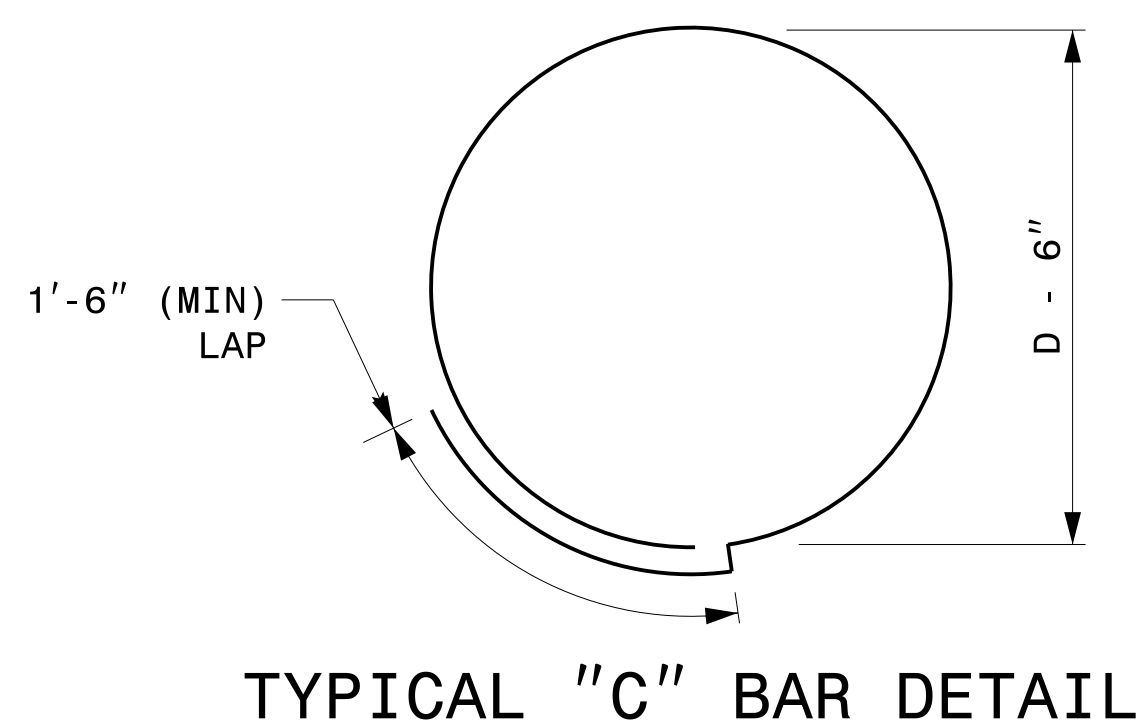
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ENGINEER
KEVIN C. DURIGON

09/21/2023

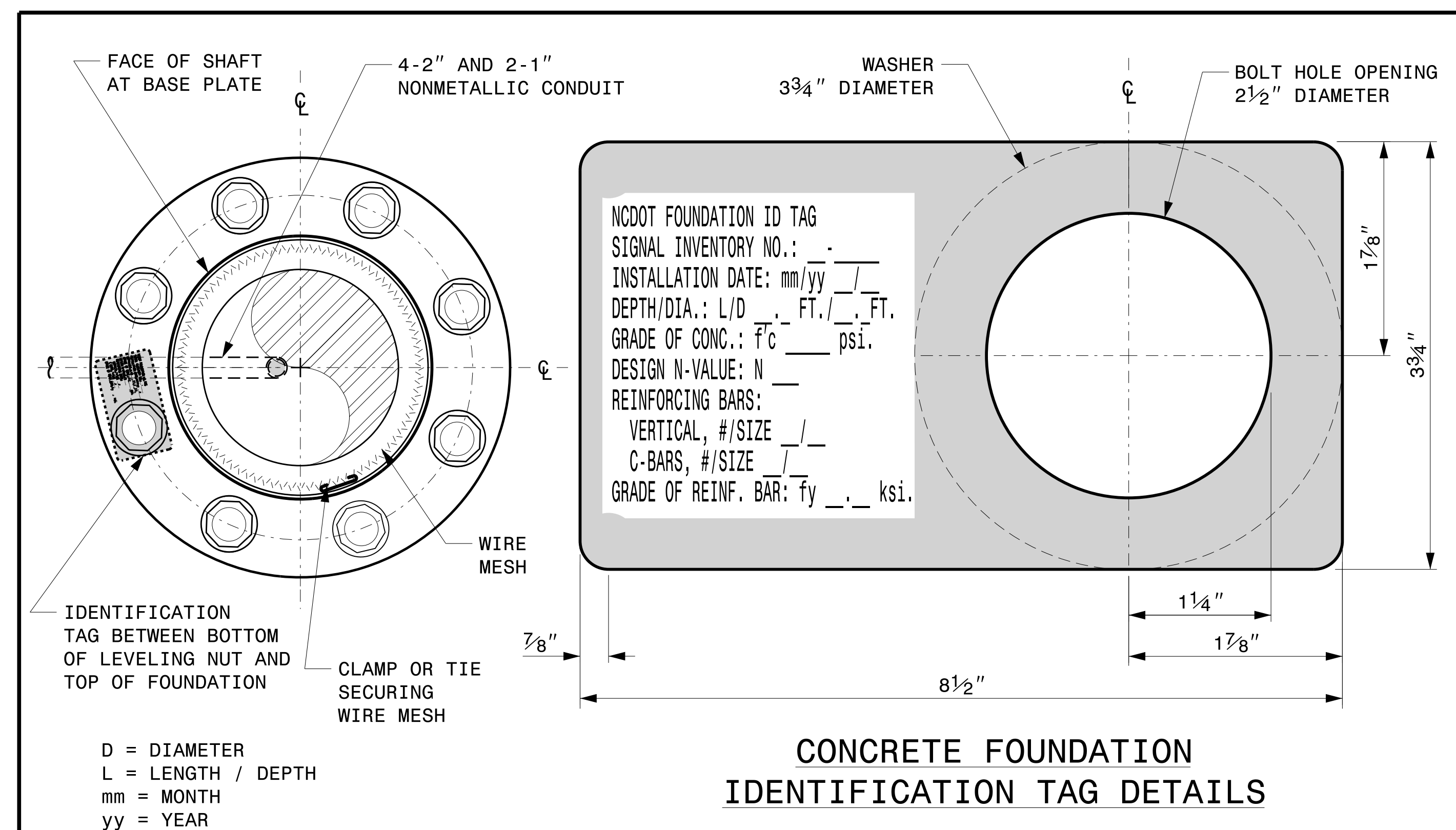
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Kedurigon



[https://connect.ncdot.gov/resources/Specifications and Special Provisions.aspx](https://connect.ncdot.gov/resources/Specifications%20and%20Special%20Provisions.aspx)

* SEE NOTE 2
** SEE NOTE 3



DETAIL - A

Prepared in the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27529	Construction Details For Foundations	SEAL 																					
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PLAN DATE: SEPTEMBER 2023	DESIGNED BY: K.C. DURIGON																						
PREPARED BY: K.C. DURIGON	REVIEWED BY: D.C. SARKAR																						
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Kedur.fgm

SOIL CONDITION

STANDARD STRAIN POLES						STANDARD FOUNDATIONS 48" Diameter Drilled Pier Length (L) – Feet							Reinforcement			
Case No.	Pole Height (Ft.)	Base Plate BC (In.)	Reactions at the Pole Base			Clay				Sand			Longitudinal		Stirrups	
			Axial (kip)	Shear (kip)	Moment (ft–kip)	Medium N–Value 4–8	Stiff N–Value 9–15	Very Stiff N–Value 16–30	Hard N–Value > 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.
I-2513AC	Sig.M8

GENERAL NOTES:

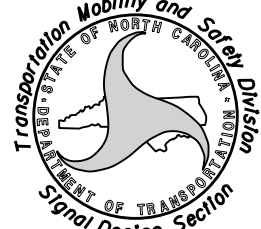
- VALUES SHOWN IN THE "REACTIONS AT THE POLE BASE" COLUMN REPRESENT THE MINIMUM ACCEPTABLE CAPACITY ALLOWED FOR DESIGN USING A COMBINED FORCE RATIO (CFR) OF 1.00.
- USE CHAIRS AND SPACERS TO MAINTAIN PROPER CLEARANCE.
- FOR FOUNDATION, ALWAYS USE AIR-ENTRAINED CONCRETE MIX.

FOUNDATION SELECTION:

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

Standard Strain Pole Foundation – All Soil Conditions

Prepared In the Offices of:



750 N.Greenfield Pkwy,Garner,NC 27529

SCALE

0 NA

NONE

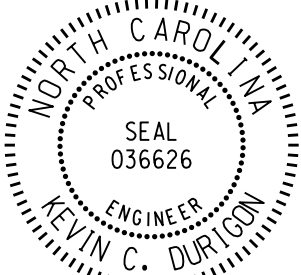
Standard Strain Pole Foundation for All Soil Conditions

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

PREPARED BY: K.C. DURIGONREVIEWED BY: D.C. SARKAR

REVISIONS	INIT.	DATE

SEAL



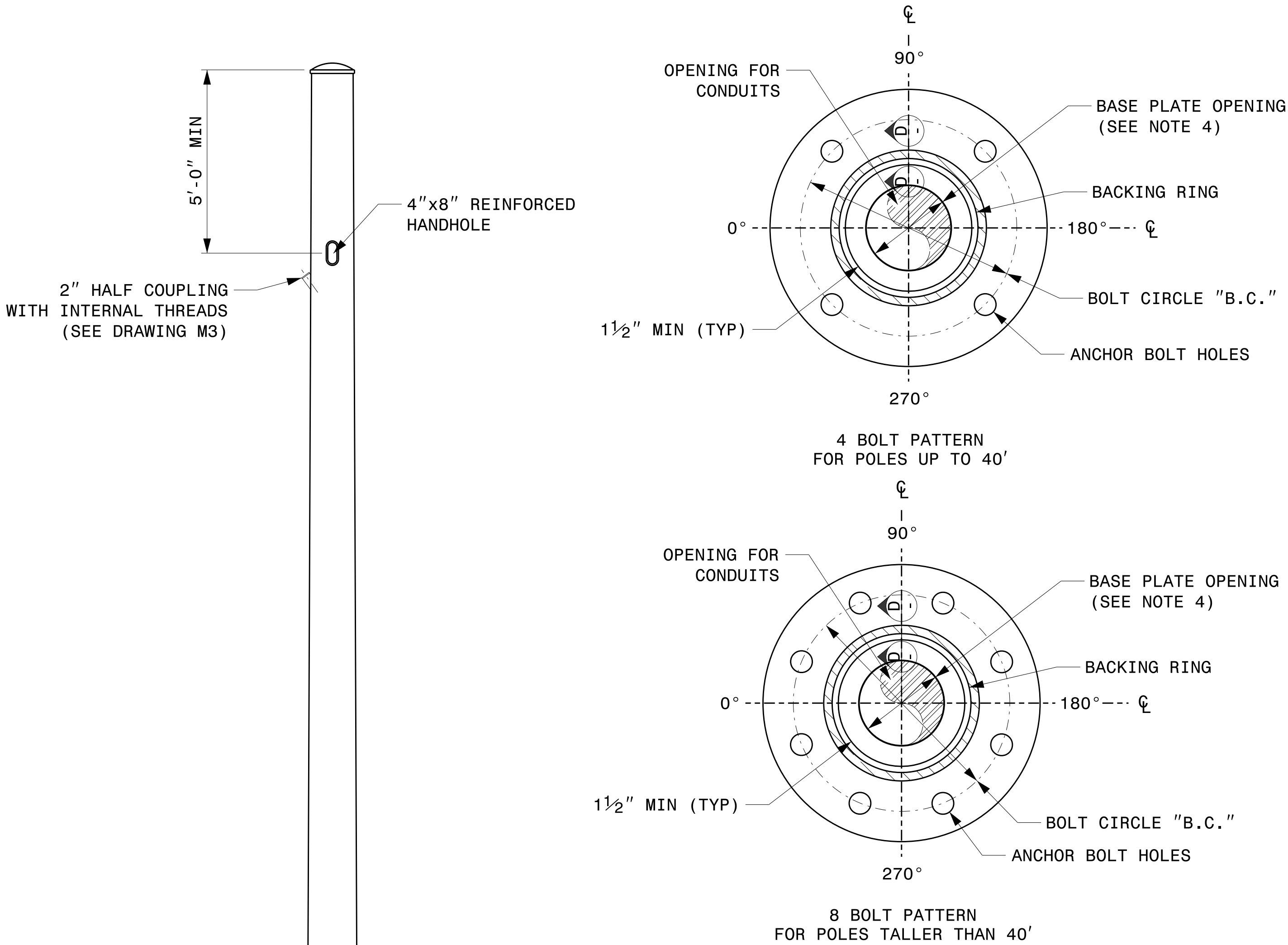
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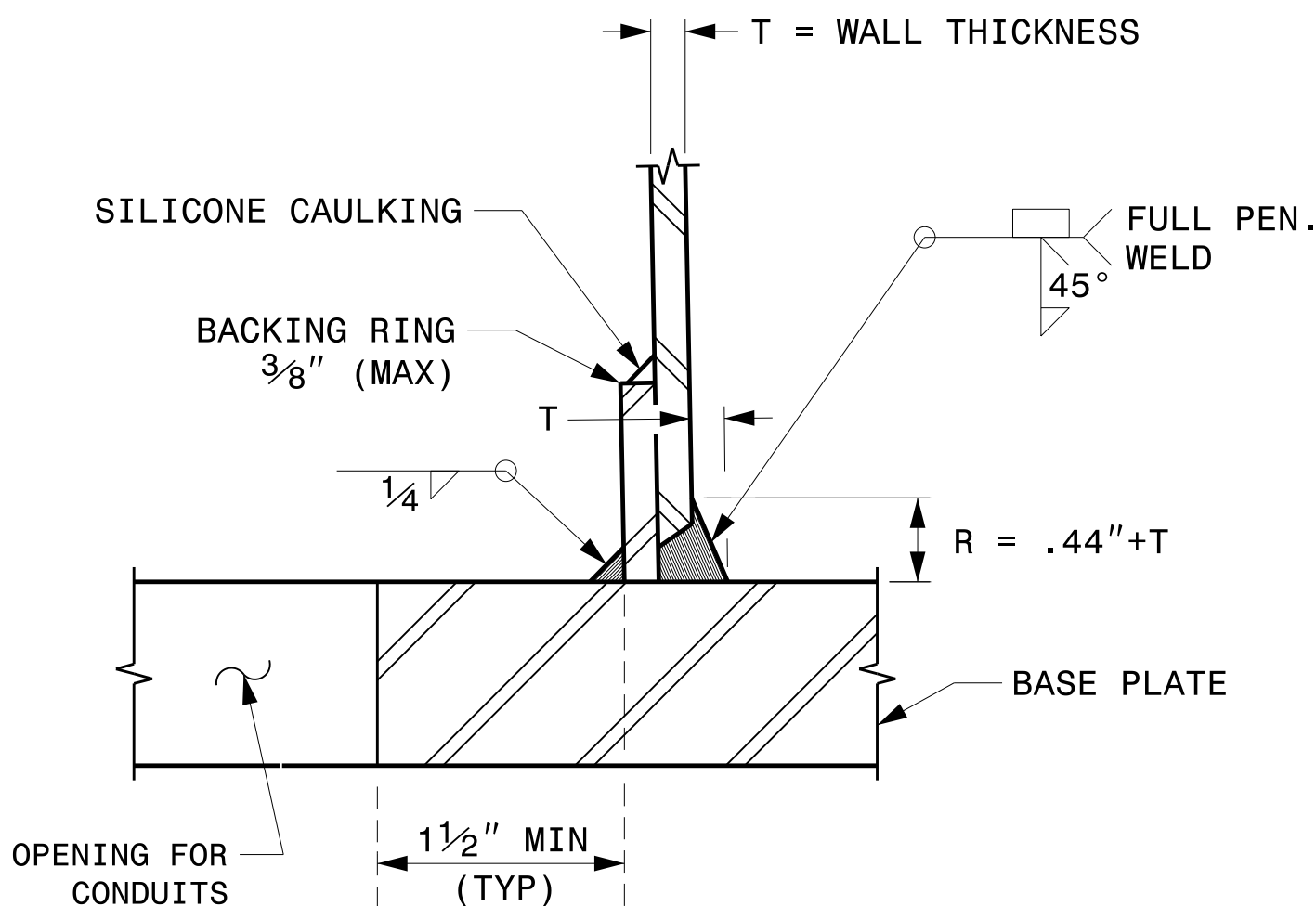
09/21/2023

DATE

PROJECT I.D. NO.	SHEET NO.
I-2513AC	Sig.M9



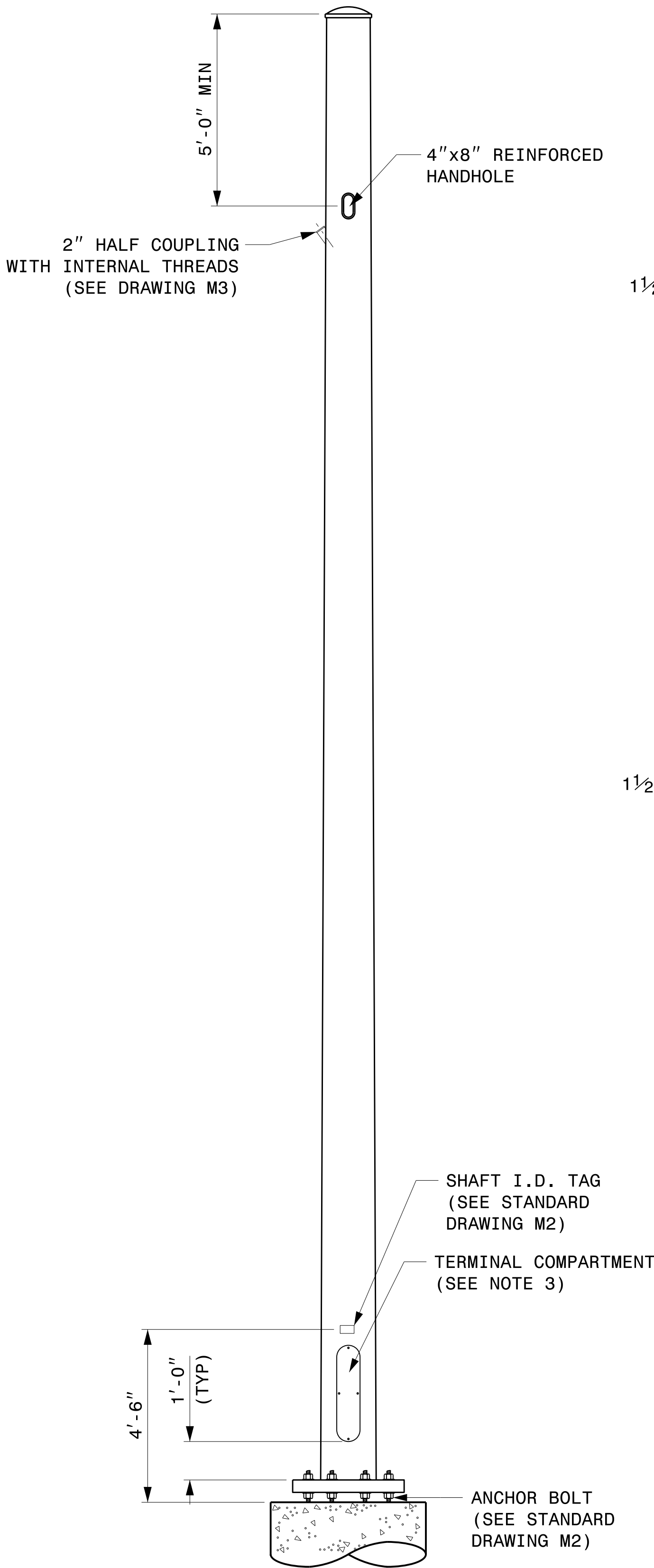
BASE PLATE DETAILS



SECTION D-D
(POLE ATTACHMENT TO BASE PLATE)
FULL - PENETRATION
GROOVE WELD DETAIL

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 3 1/2" BUT SHALL NOT BE LESS THAN 8 1/2".
5. USE COMPACT SECTION CRITERIA D/T RATIO PER AASHTO LTS-LRFD 1ST EDITION SECTION 5.7.2.



CCTV CAMERA POLE
(NOT TO SCALE)

Prepared In the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

Typical Fabrication Details
For
CCTV Poles

PLAN DATE: SEPTEMBER 2023 DESIGNED BY: K.C. DURIGON
PREPARED BY: K.C. DURIGON REVIEWED BY: C.F. ANDREWS

REVISIONS	INIT.	DATE

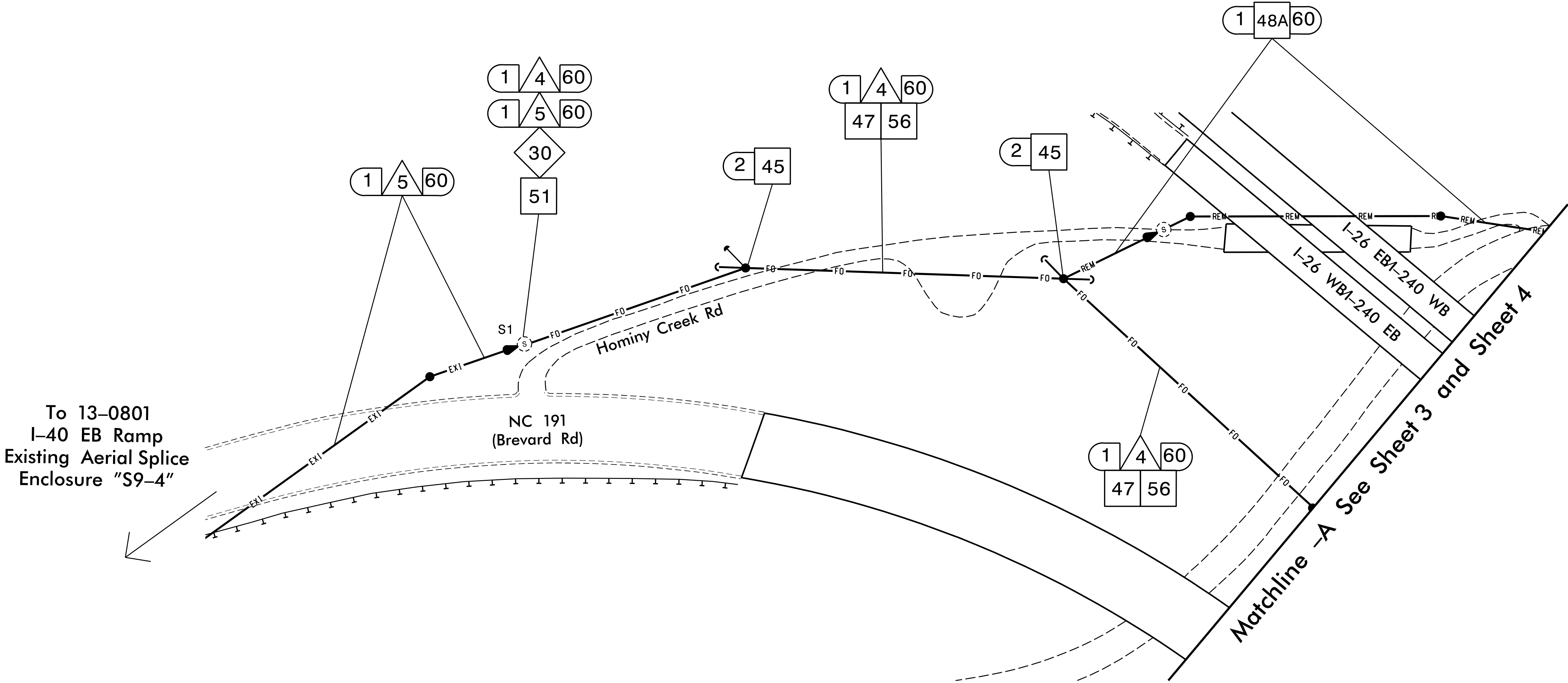
SCALE
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NONE

SEAL

DocuSigned by:
Kevin Durigon
SIGNATURE
4B23DC79B3784DA...

09/21/2023
DATE

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100



NOTES:

1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER AT (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM 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 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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Temporary Design - Phase 1 Step 2		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared for the Offices of: SEAL 026679 ENGINEER ROCHELLE GARRETT Signed by: Rochelle Barrett 8/10/2026 Temporary Communication Cable Routing Plans Signal System - City of Asheville DIVISION 13 BUNCOMBE CO. ASHEVILLE PLAN DATE: November 2025 REVIEWED BY: M. Cavanaugh PREPARED BY: M. Tindal REVIEWED BY: R. Garrett REVISIONS INIT. DATE SIGNATURE DATE CADD Filename:		SEAL 026679 ENGINEER ROCHELLE GARRETT Signed by: Rochelle Barrett 8/10/2026	

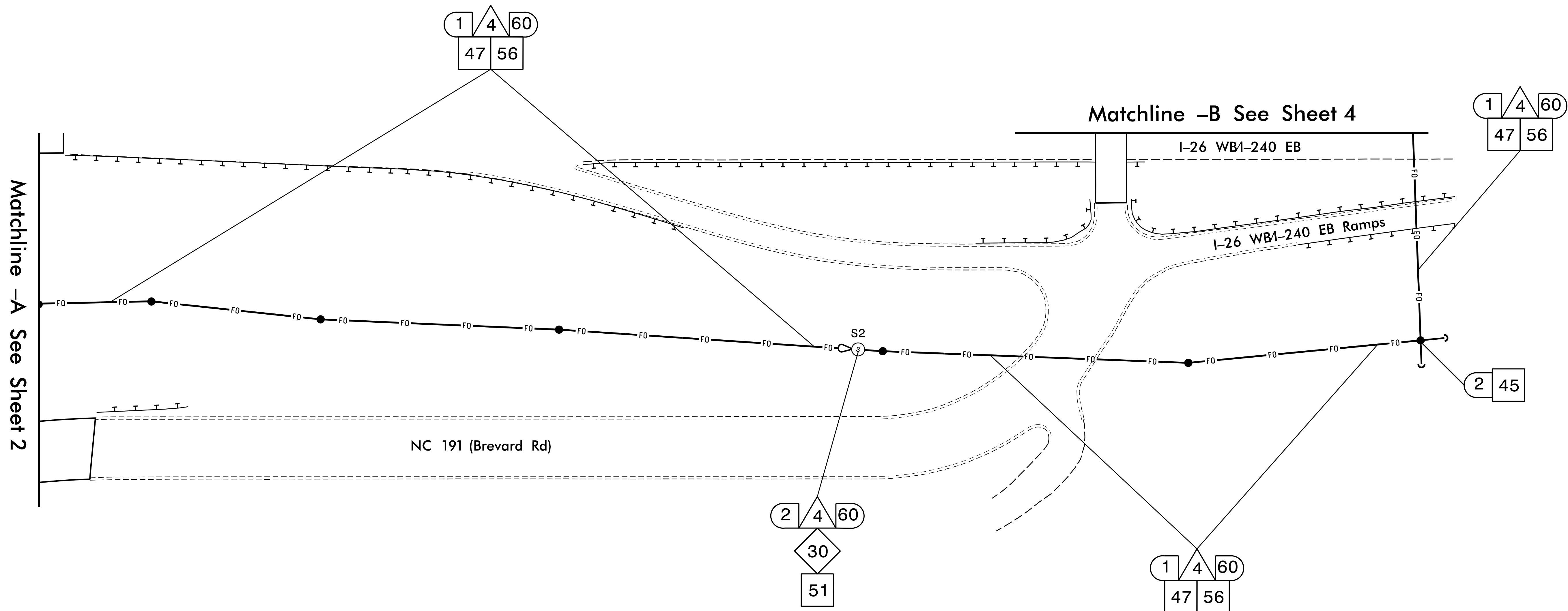
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NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

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SCALE

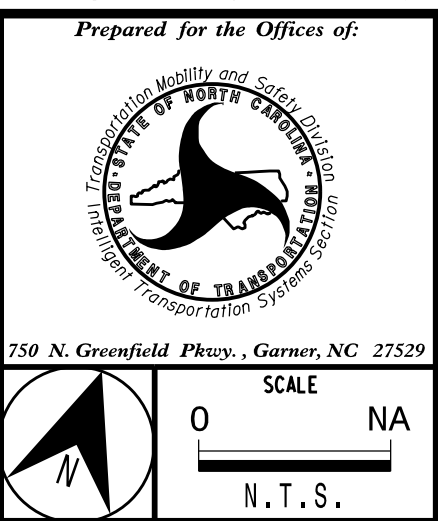
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N.T.S.



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DOCUMENT NOT CONSIDERED
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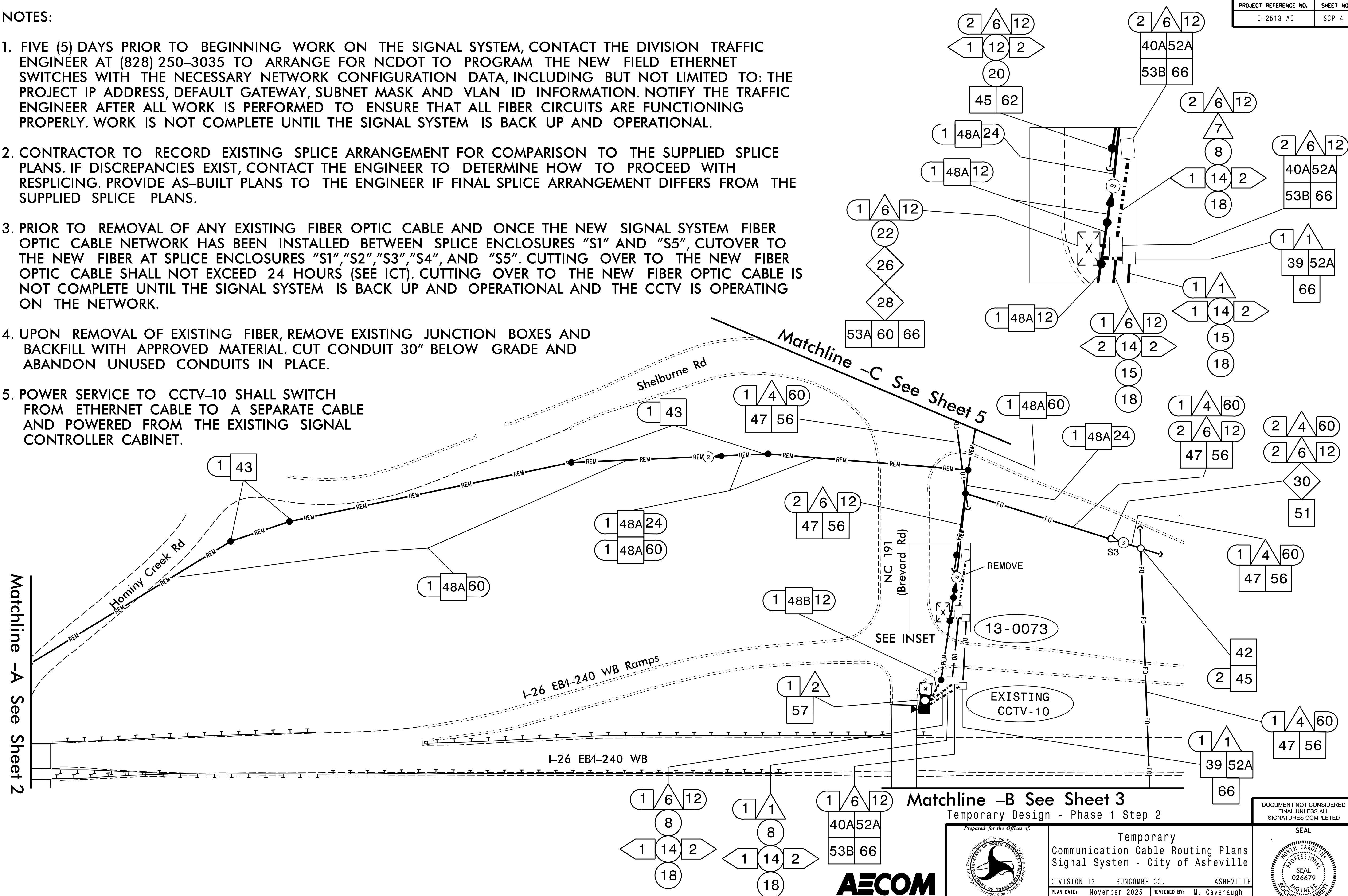
DIVISION 13		BUNCOMBE CO.		ASHEVILLE	
PLAN DATE: November 2025		REVIEWED BY: M. Cavanaugh			
PREPARED BY: M. Tindal		REVIEWED BY: R. Garrett			

REVISIONS	INIT.	DATE
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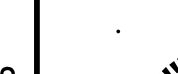
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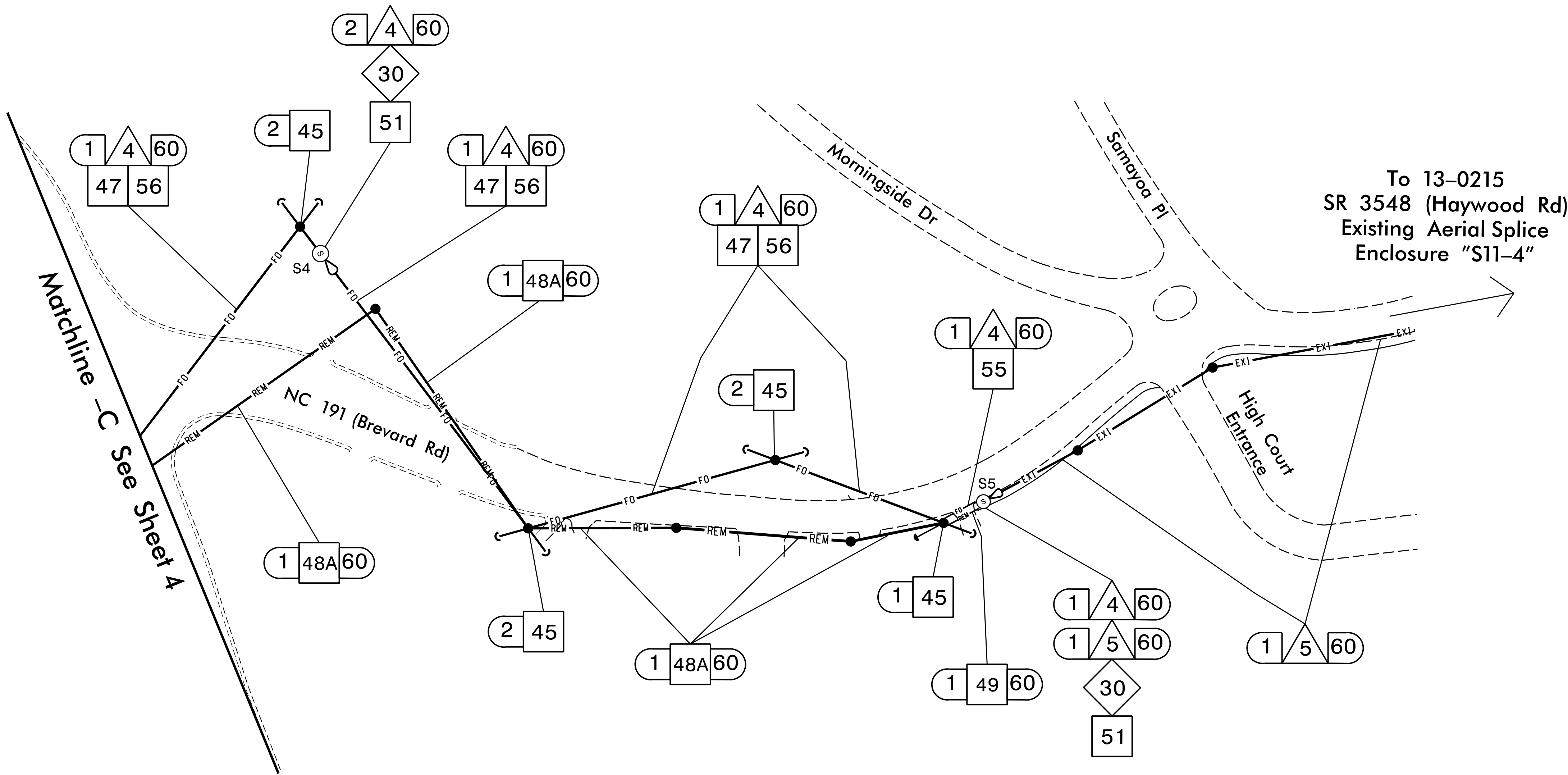
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5. POWER SERVICE TO CCTV-10 SHALL SWITCH FROM ETHERNET CABLE TO A SEPARATE CABLE AND POWERED FROM THE EXISTING SIGNAL CONTROLLER CABINET.



Matchline –B See Sheet 3
Temporary Design - Phase 1 Step 2



Prepared for the Offices of:  OFFICE OF TRANSPORTATION NORTH CAROLINA TRANSPORTATION MOBILITY AND SAFETY DIVISION (Transportation Planning and Design) 750 N. Greenfield Pkwy., Garner, NC 27529	Temporary Communication Cable Routing Plans Signal System - City of Asheville	SEAL 																																	
DIVISION 13 BUNCOMBE CO. ASHEVILLE																																			
PLAN DATE: November 2025 REVIEWED BY: M. Cavanaugh																																			
PREPARED BY: M. Tindal REVIEWED BY: R. Garrett																																			
 N SCALE 0 _____ NA N.T.S.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">REVISIONS</th> <th style="width: 20%;">INIT.</th> <th style="width: 20%;">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> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <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																														
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Signed by: <u>Rochelle Garrett</u> 8/10/2026 FOR SIGNATURE: _____ SIGNATURE _____ DATE _____ CADD Filename: _____																																			



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Temporary Design - Phase 1 Step 2

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Phone: 919-461-1100



Temporary Communication Cable Routing Plans Signal System - City of Asheville			
DIVISION 13		BUNCOMBE CO.	ASHEVILLE
PLAN DATE: November 2025		REVIEWED BY: M. Cavenaugh	
PREPARED BY: M. Tindal		REVIEWED BY: R. Garrett	
REVISIONS		INIT.	DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

Signed by:
Rochelle Barrett
8/10/2026
FCS1726FAR008
SIGNATURE
DATE
CADD Filename:

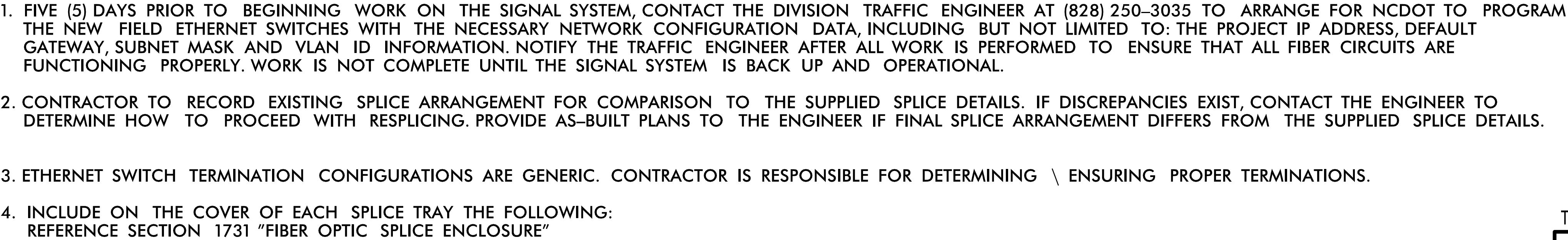
NEW AERIAL SPLICE ENCLOSURE
"S1" HOMINY CREEK ROAD
NORTH OF NC 191 (BREVARD ROAD)

COLOR	CODE
TIA/EIA	598-A

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
(5) SLATE	(11) ROSE
(6) WHITE	(12) AQUA

SPLICE	=	SPLICE ALL FIBERS/ BUFFER TUBES
--------	---	------------------------------------

Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.



- 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.

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Prepared for the Offices of:		Temporary Asheville Signal System Splice Details		SEAL NORTH CAROLINA PROFESSIONAL SEAL 0266679 ENGINEER ROCHELLE GARRETT	
		DIVISION 13 BUNCOMBE CO. ASHEVILLE			
PLAN DATE: November 2025		REVIEWED BY: M. Cavanaugh			
PREPARED BY: M. Tindal		REVIEWED BY: R. Garrett			
REVISIONS		INIT.		DATE	
750 N. Greenfield Pkwy., Garner, NC 27529		Signed by: <u>Rochelle Garrett</u> 8/10/2026 FOR THE DESIGNER SIGNATURE DATE			
CADD Filename:					

NEW AERIAL SPLICE ENCLOSURE
"S2" NC 191 (BREVARD ROAD)
SOUTH OF I-26 WB/I-240 EB RAMPS

LEGEND

X = FUSION SPLICE
E = EXISTING SPLICE
C = CAP AND SEAL

EXPRESS

= EXPRESS ALL FIBERS/
BUFFER TUBES

SPLICE

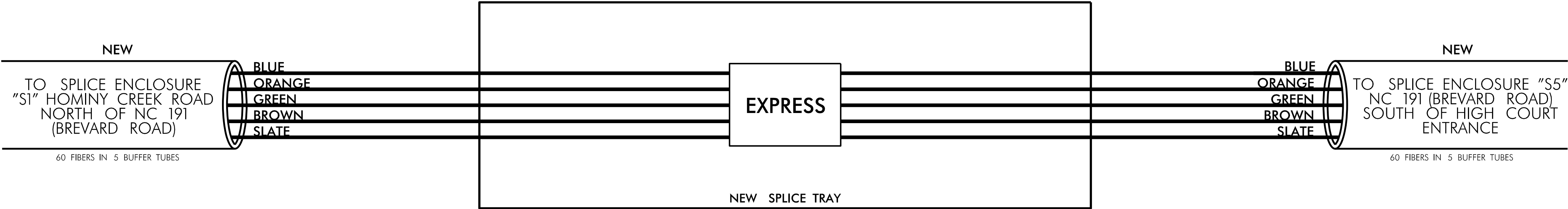
= SPLICE ALL FIBERS/
BUFFER TUBES

COLOR CODE
TIA/EIA 598-A

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
(5) SLATE	(11) ROSE
(6) WHITE	(12) AQUA

Notes:

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Unused Buffer Tubes left coiled and stored in splice tray.



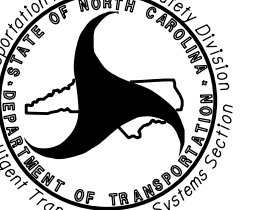
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4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:
REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

- 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.

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Phone: 919-461-1100

Temporary Design - Phase 1 Step 2

Prepared for the Offices of:  750 N. Greenfield Plaza, Garner, NC 27529		Temporary Asheville Signal System Splice Details DIVISION 13 BUNCOMBE CO. ASHEVILLE PLAN DATE: November 2025 REVIEWED BY: M. Cavenaugh PREPARED BY: M. Tindal REVIEWED BY: R. Garrett		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
REVISIONS		INIT.	DATE	Signed by:  ROCHELLE BARRETT Professional Engineer Seal 026679 8/10/2026	
				SIGNATURE DATE	
		CADD Filename:			

NEW AERIAL SPLICE ENCLOSURE
"S3" NC 191 (BREVARD ROAD)
NORTH OF I-26 EB/I-240 WB RAMP
SIG. INV. #13-0073

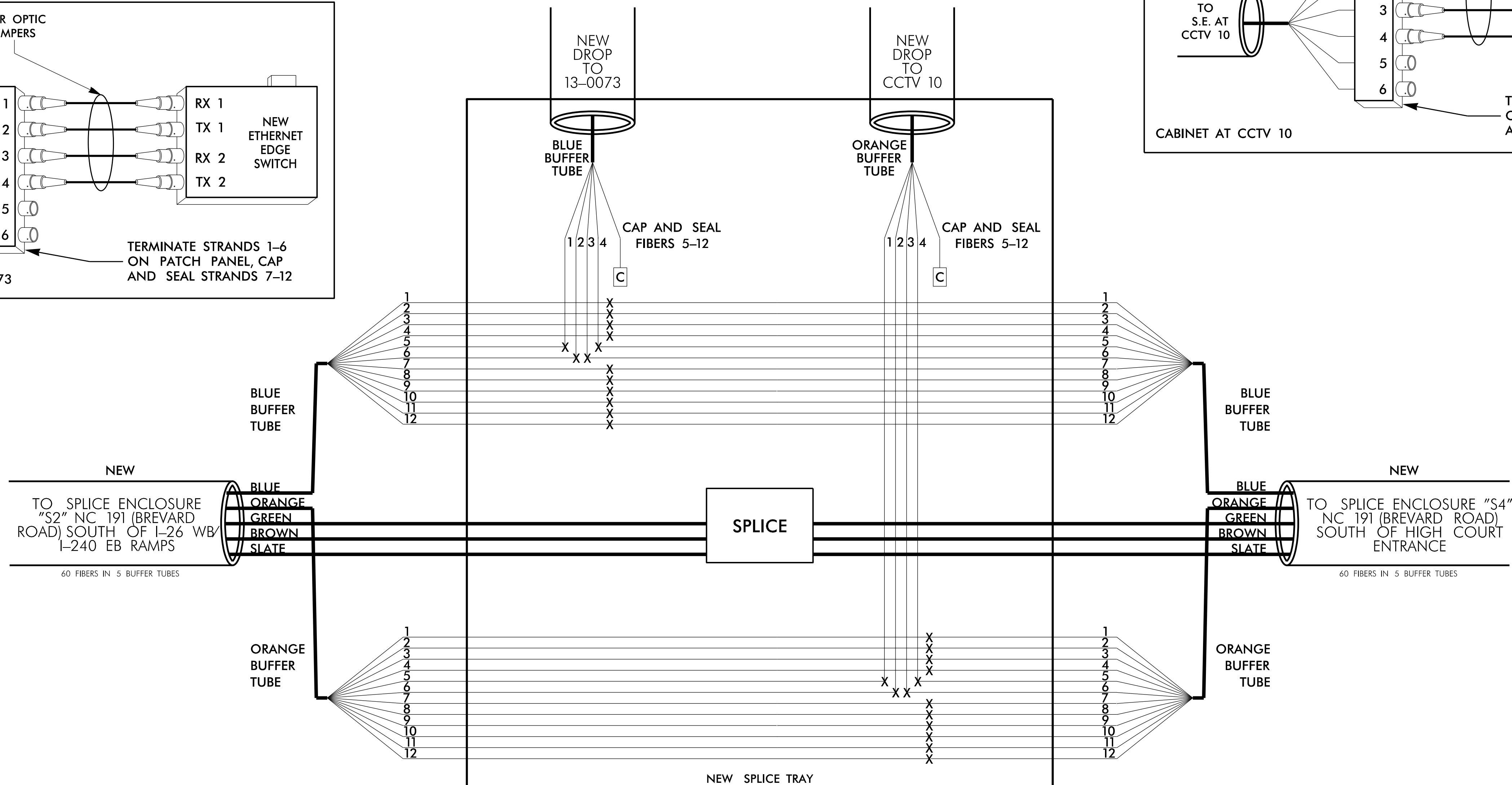
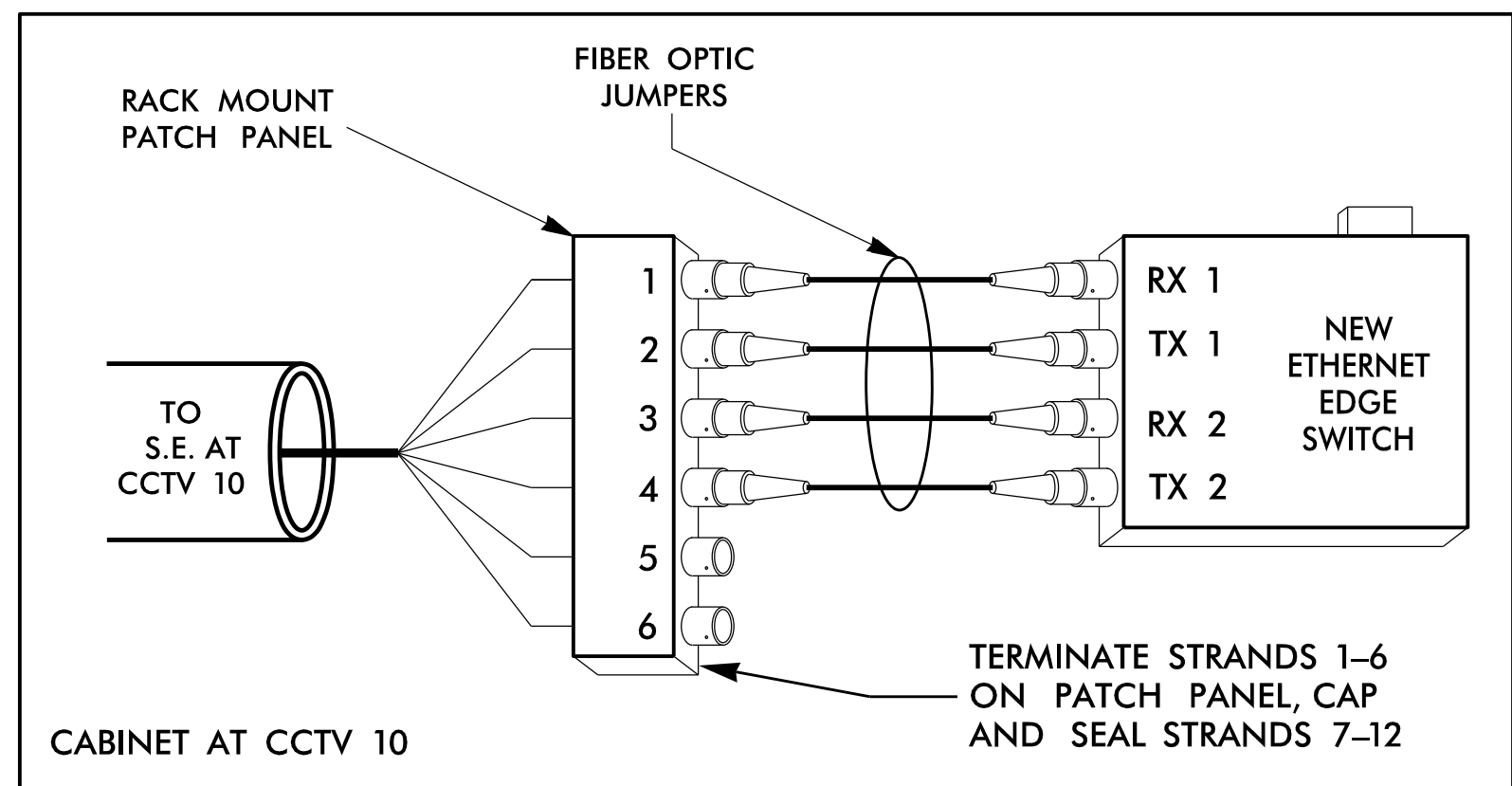
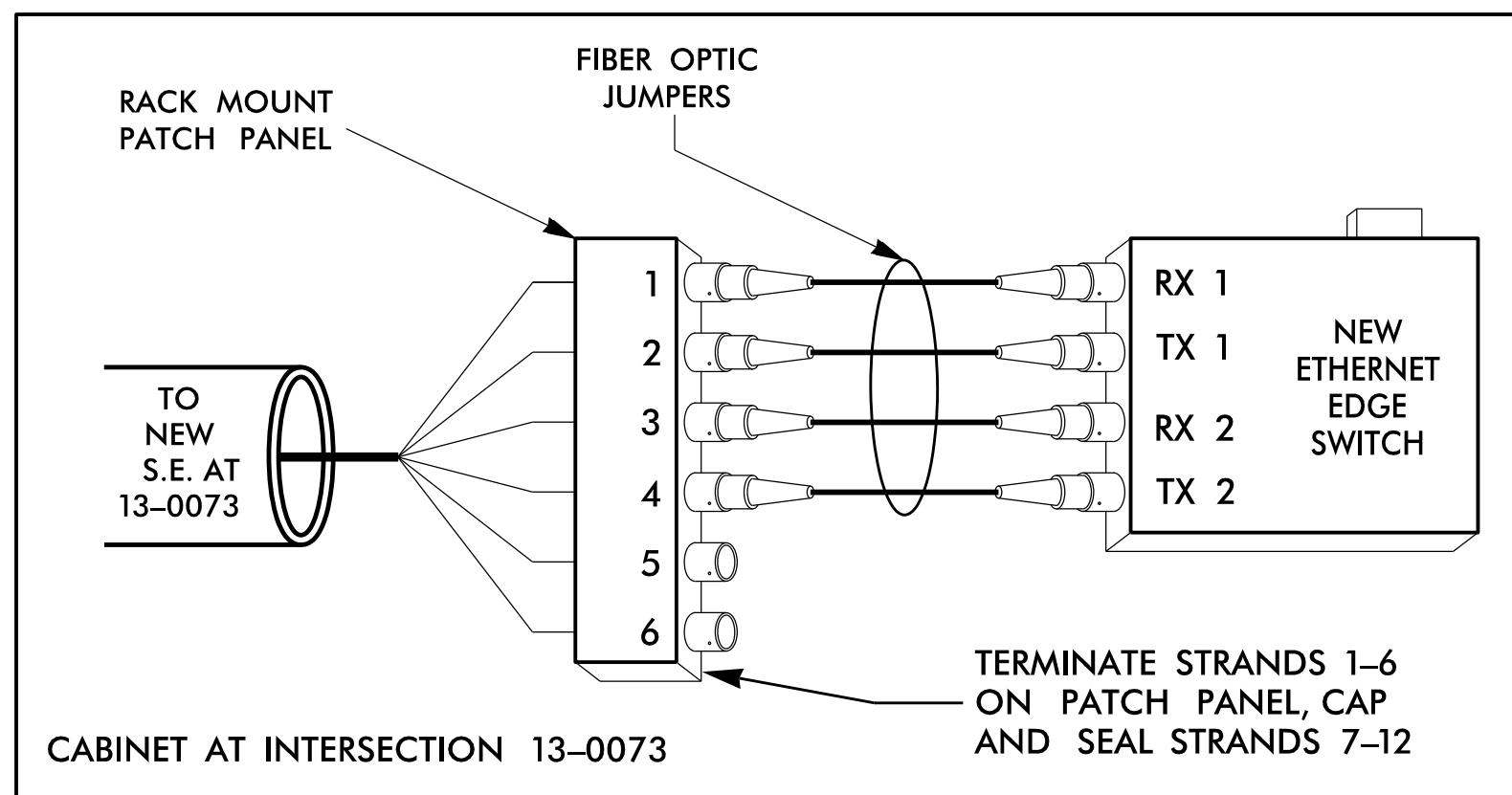
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Unused Buffer Tubes left coiled and stored in splice tray.

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E = EXISTING SPLICE
C = CAP AND SEAL

EXPRESS = EXPRESS ALL FIBERS/
BUFFER TUBES

SPLICE = SPLICE ALL FIBERS/
BUFFER TUBES

(1) BLUE (7) RED
(2) ORANGE (8) BLACK
(3) GREEN (9) YELLOW
(4) BROWN (10) VIOLET
(5) SLATE (11) ROSE
(6) WHITE (12) AQUA

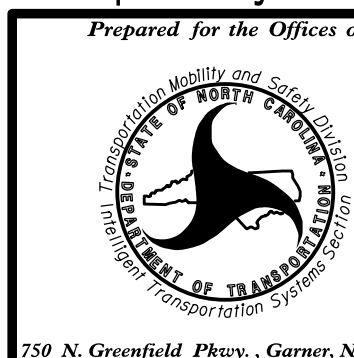


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- 2) DATE
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Temporary Design - Phase 1 Step 2



750 N. Greenfield Pkwy., Garner, NC 27529

Asheville Signal System Splice Details

DIVISION 13 BUNCOMBE CO. ASHEVILLE

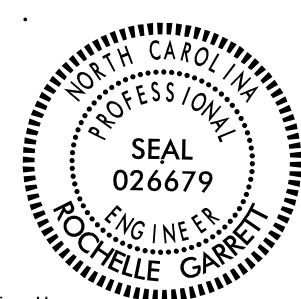
PLAN DATE: November 2025	REVIEWED BY: M. Cavanaugh
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PREPARED BY: M. Tindal	REVIEWED BY: R. Garrett
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REVISIONS	INIT.	DATE
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FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL



Signed by:

Rochelle Garrett

FCB5175F546B4F6

CADD File names:

NEW AERIAL SPLICE ENCLOSURE
"S4" NC 191 (BREVARD ROAD)
NORTH OF SHELburnE ROAD/FAIRFAX ROAD

Notes:
Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.

LEGEND

X = FUSION SPLICE

E = EXISTING SPLICE

C = CAP AND SEAL

EXPRESS

= EXPRESS ALL FIBERS/
BUFFER TUBES

SPLICE

= SPLICE ALL FIBERS/
BUFFER TUBES

COLOR CODE

TIA/EIA 598-A

(1) BLUE

(2) ORANGE

(3) GREEN

(4) BROWN

(5) SLATE

(6) WHITE

(7) RED

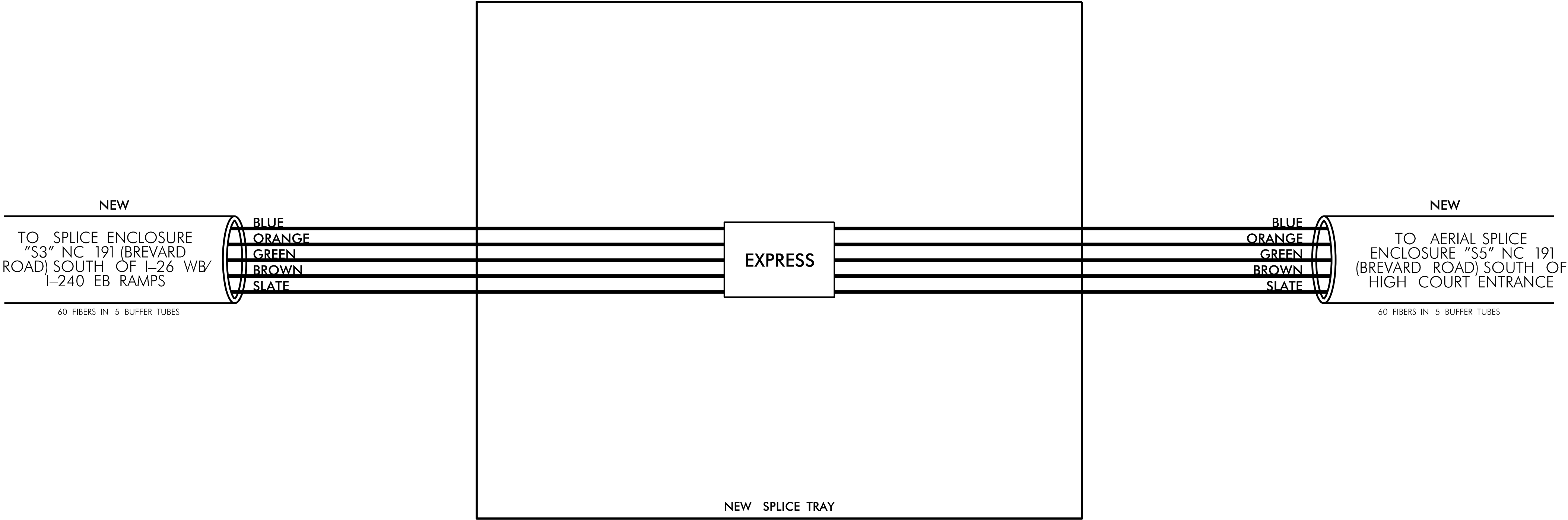
(8) BLACK

(9) YELLOW

(10) VIOLET

(11) ROSE

(12) AQUA



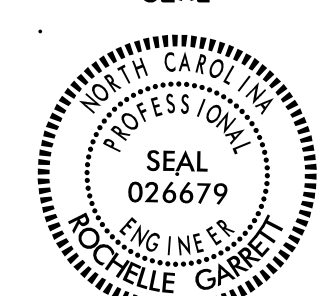
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Suite 200 Raleigh, NC 27607
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Prepared for the Offices of:  750 N. Greenfield Place, Garner, NC 27529		Temporary Asheville Signal System Splice Details DIVISION 13 BUNCOMBE CO. ASHEVILLE PLAN DATE: November 2025 PREPARED BY: M. Tindal REVIEWED BY: M. Cavenaugh REVISIONS INIT. DATE		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL  Signed by: Rochelle Barrett 8/10/2026 SIGNATURE DATE CADD Filename:	
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PROJECT REFERENCE NO.	SHEET NO.
I-2513 AC	SCP 10

NEW AERIAL SPLICE ENCLOSURE
"S5" NORTH OF NC 191 (BREVARD ROAD)
AT SHELBURNE ROAD/FAIRFAX ROAD

Notes:

Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.

LEGEND

X = FUSION SPLICE
E = EXISTING SPLICE
C = CAP AND SEAL

EXPRESS

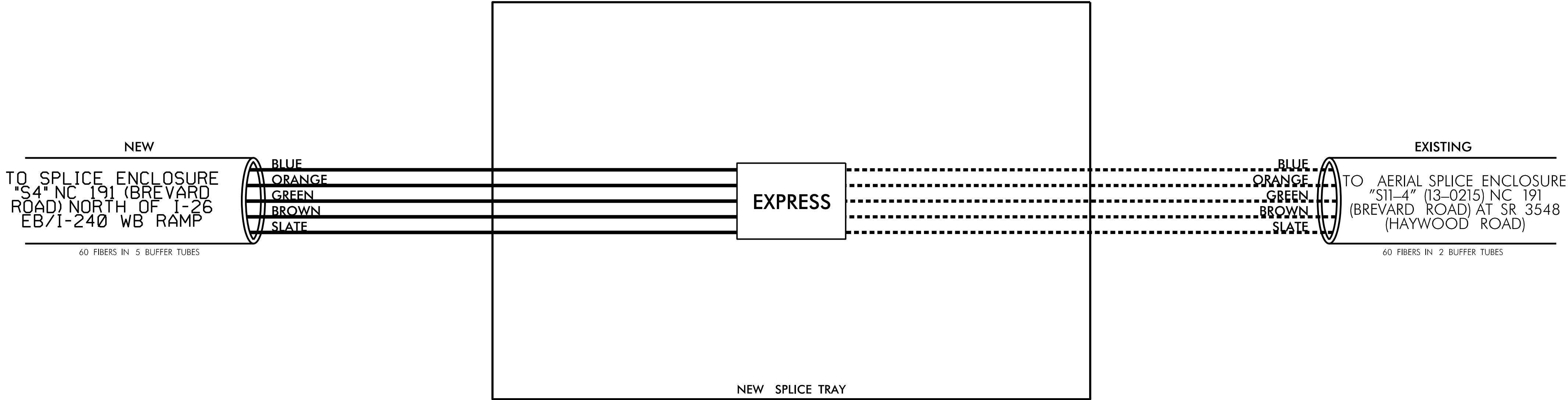
= EXPRESS ALL FIBERS/
BUFFER TUBES

SPLICE

= SPLICE ALL FIBERS/
BUFFER TUBES

COLOR CODE
TIA/EIA 598-A

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
(5) SLATE	(11) ROSE
(6) WHITE	(12) AQUA



1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER AT (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM 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 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.
2. CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENT FOR COMPARISON TO THE SUPPLIED SPLICE DETAILS. IF DISCREPANCIES EXIST, CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED WITH RESPLICING. PROVIDE AS-BUILT PLANS TO THE ENGINEER IF FINAL SPLICE ARRANGEMENT DIFFERS FROM THE SUPPLIED SPLICE DETAILS.
3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:
REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

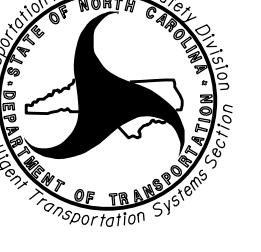
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- 2) DATE
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PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

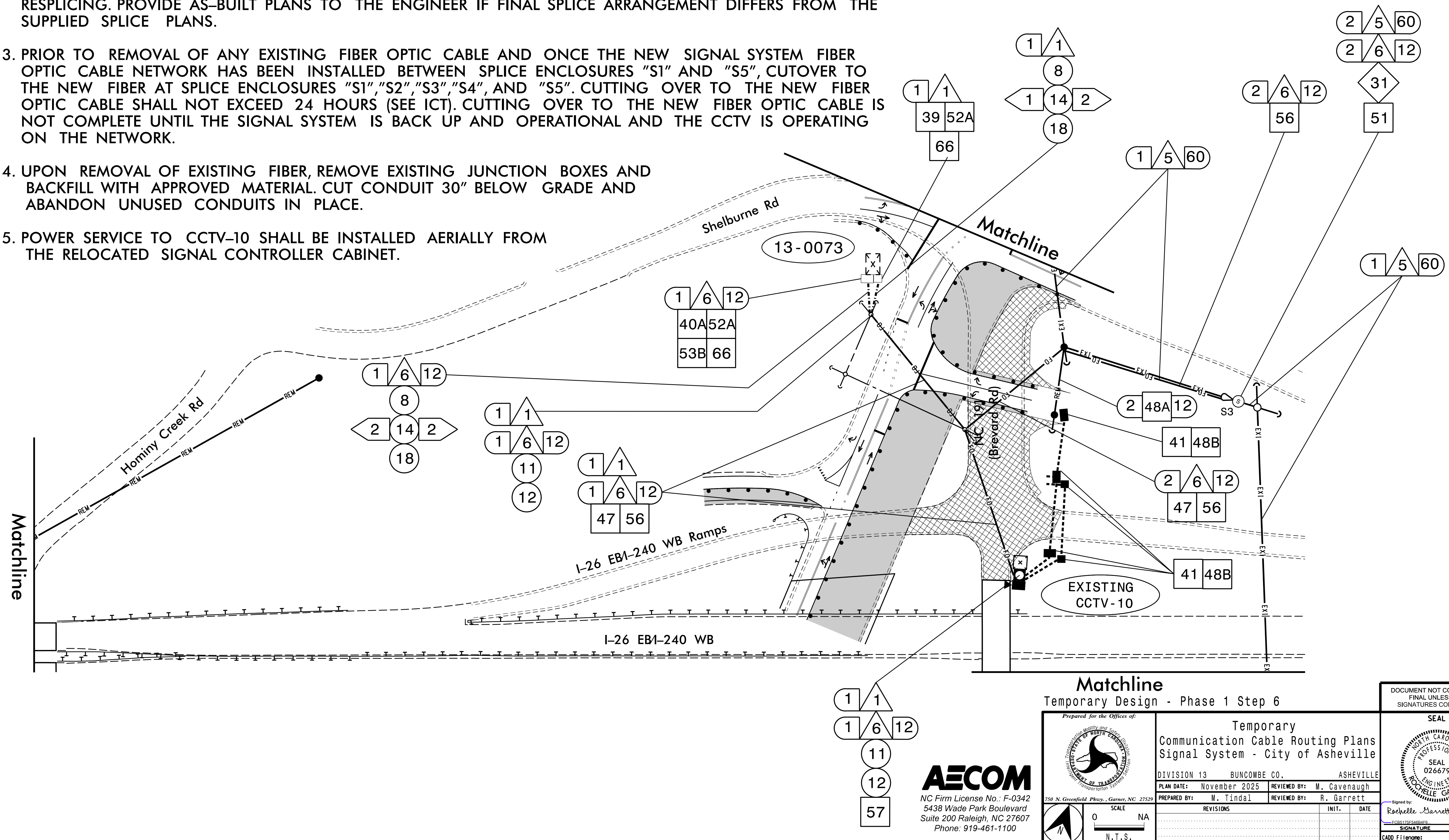
Temporary Design - Phase 1

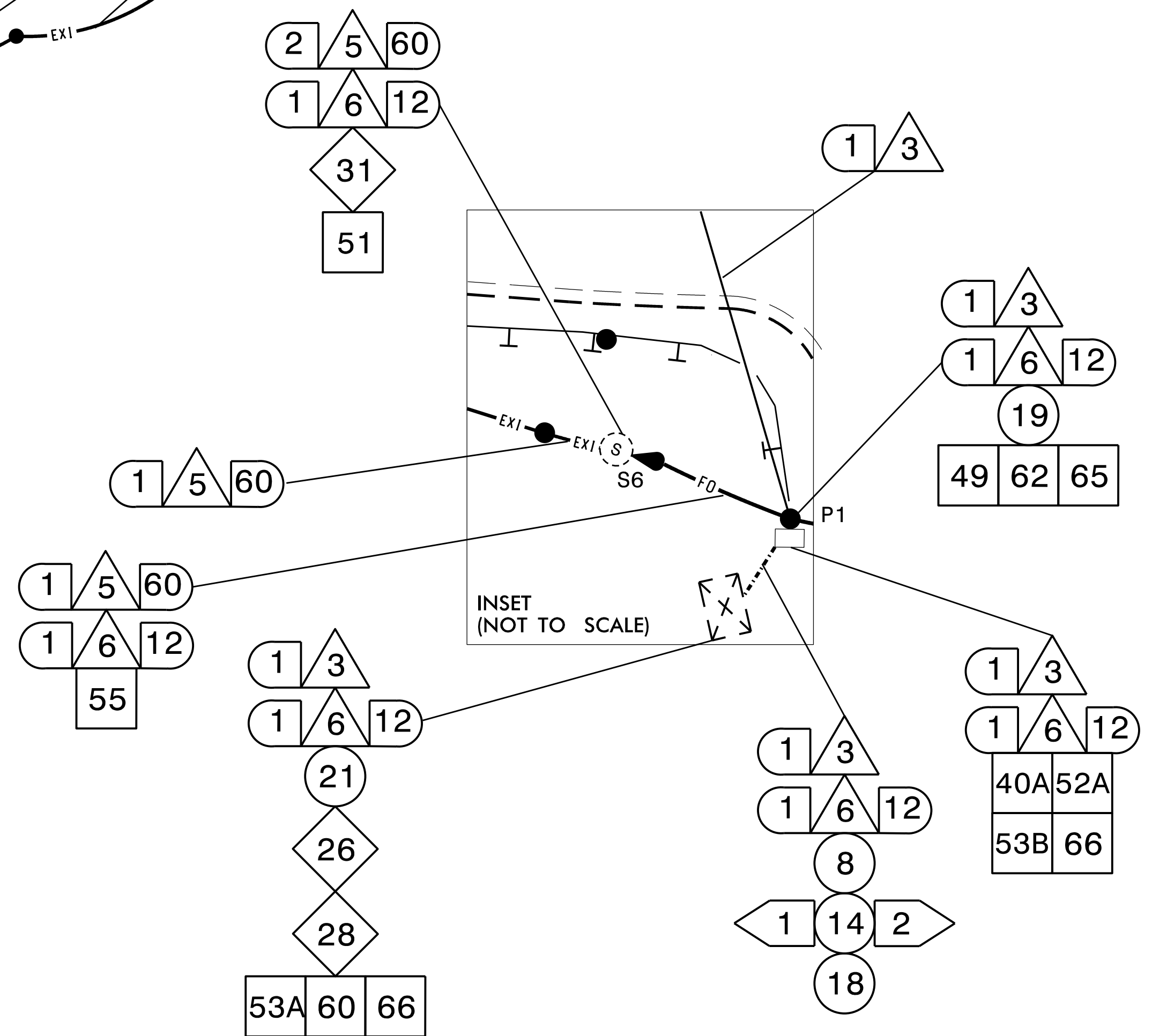
AECOM

NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

Prepared for the Offices of:  750 N. Greenfield Place, Garner, NC 27529		Temporary Asheville Signal System Splice Details DIVISION 13 BUNCOMBE CO. ASHEVILLE PLAN DATE: November 2025 REVIEWED BY: M. Cavenaugh PREPARED BY: M. Tindal REVIEWED BY: R. Garrett		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
REVISIONS		INIT.	DATE	Signed by:  ROCHELLE BARRETT ENGINEER F081179418488	
				SIGNATURE DATE	
		CADD Filename:			

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3. PRIOR TO REMOVAL OF ANY EXISTING FIBER OPTIC CABLE AND ONCE THE NEW SIGNAL SYSTEM FIBER OPTIC CABLE NETWORK HAS BEEN INSTALLED BETWEEN SPLICE ENCLOSURES "S1" AND "S5", CUTOVER TO THE NEW FIBER AT SPLICE ENCLOSURES "S1", "S2", "S3", "S4", AND "S5". CUTTING OVER TO THE NEW FIBER OPTIC CABLE SHALL NOT EXCEED 24 HOURS (SEE ICT). CUTTING OVER TO THE NEW FIBER OPTIC CABLE IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL AND THE CCTV IS OPERATING ON THE NETWORK.
4. UPON REMOVAL OF EXISTING FIBER, REMOVE EXISTING JUNCTION BOXES AND BACKFILL WITH APPROVED MATERIAL. CUT CONDUIT 30" BELOW GRADE AND ABANDON UNUSED CONDUITS IN PLACE.
5. POWER SERVICE TO CCTV-10 SHALL BE INSTALLED AERIALY FROM THE RELOCATED SIGNAL CONTROLLER CABINET.





1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER AT (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM 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 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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4. ABANDON UNUSED CONDUITS IN PLACE.
5. BACKPULL EXISTING ETHERNET CABLE FROM EXISTING SIGNAL CABINET TO TOP OF EXISTING POLE "P1" AND REROUTE TO THE NEW JUNCTION BOX AT THE BASE OF P1 AND BACK TO CABINET IN NEW CONDUIT.
6. MAINTAIN CAMERA FUNCTIONALITY THROUGHOUT THE LIFE OF THE PROJECT.

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

Prepared for the Offices of:  750 N. Greenfield Pkwy., Garner, NC 27529	Temporary Communication Cable Routing Plans Signal System - City of Asheville	SEAL 																		
DIVISION 13 BUNCOMBE CO. ASHEVILLE																				
PLAN DATE: November 2025 REVIEWED BY: M. Cavenaugh																				
PREPARED BY: M. Tindal REVIEWED BY: R. Garrett																				
	SCALE 0 NA N.T.S.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">REVISONS</th> <th style="width: 20%;">INIT.</th> <th style="width: 30%;">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> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISONS	INIT.	DATE															
REVISONS	INIT.	DATE																		
Signed by: 8/10/2026 <u>Rochelle Garrett</u> FCB017PC4686FA <u>SIGNATURE</u> <u>DATE</u>																				
CADD Filename: _____																				

EXISTING AERIAL SPLICE ENCLOSURE
"S6" US 23 BUS /SR 3548 (HAYWOOD ROAD)
AT I-26 WB /I-240 EB RAMP
SIG. INV. #13-0218

Notes:
Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.

LEGEND

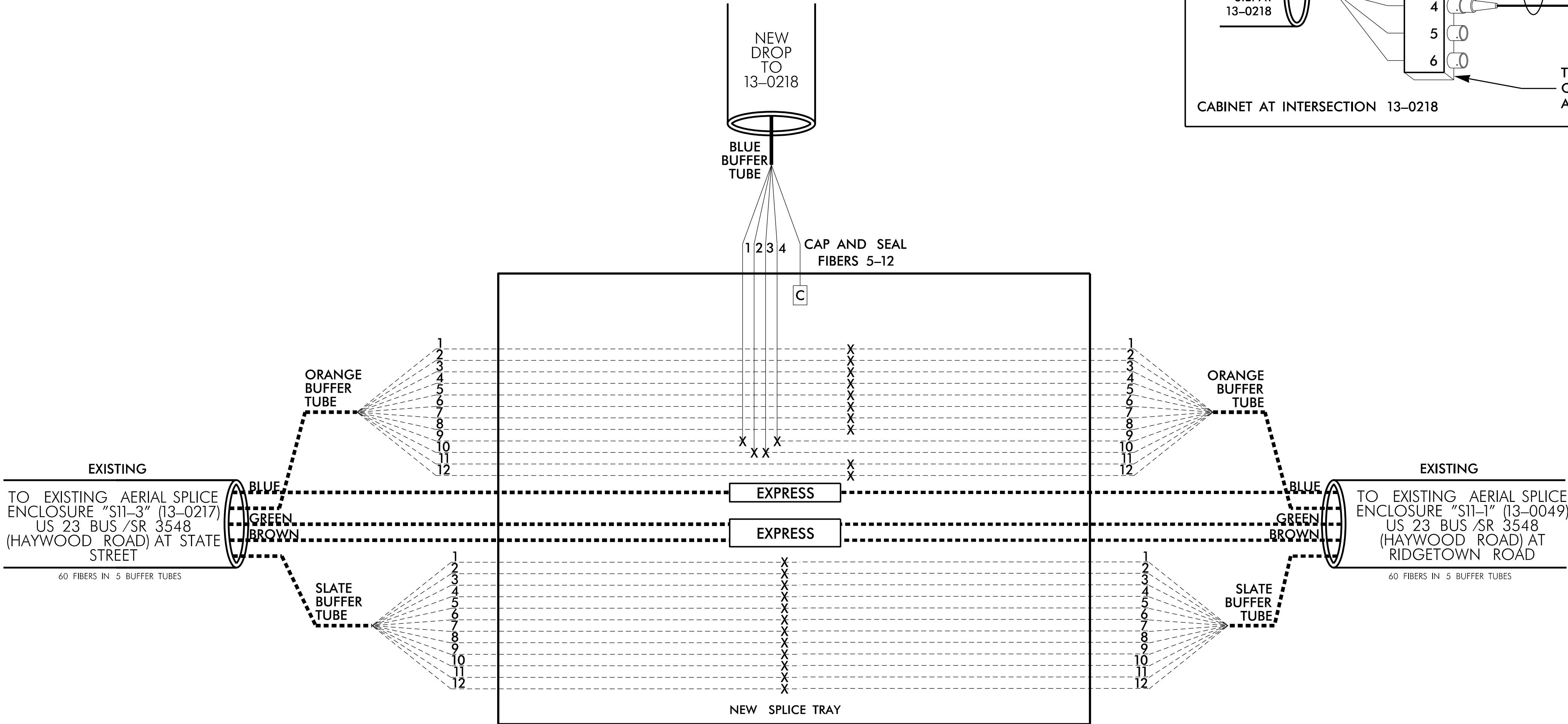
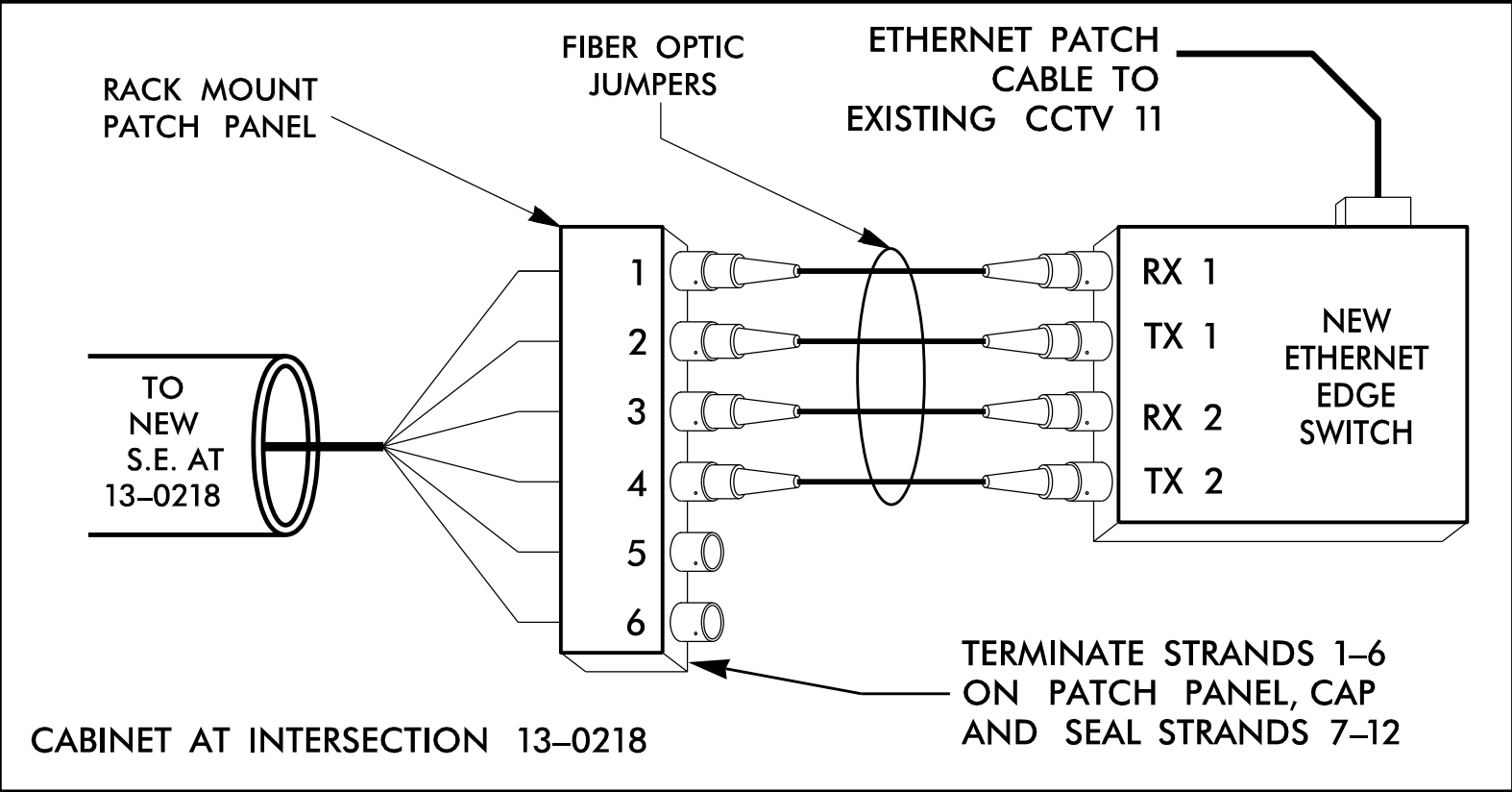
X = FUSION SPLICE
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EXPRESS = EXPRESS ALL FIBERS/
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SPLICE = SPLICE ALL FIBERS/
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TIA/EIA 598-A

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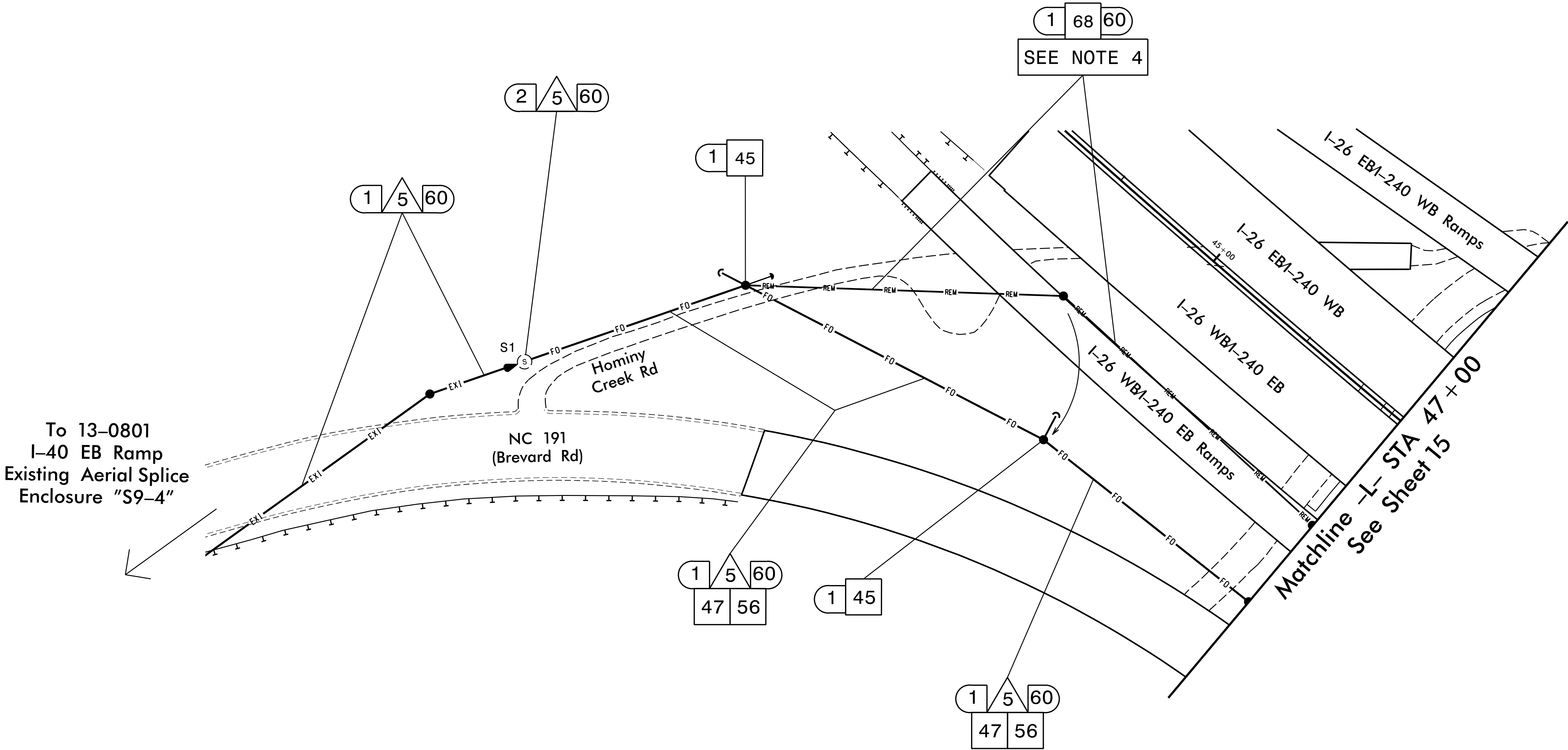
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Temporary Design - Phase 3

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5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

Prepared for the Offices of:		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
		SEAL PROFESSIONAL ENGINEER SEAL 026679 ROCHELLE GARRETT	
DIVISION 13 BUNCOMBE CO. ASHEVILLE		SIGNED BY: <i>Rochelle Garrett</i> 8/10/2026	
PLAN DATE: November 2025 REVIEWED BY: M. Cavanaugh		FCSB17REPAIRS	
PREPARED BY: M. Tindal REVIEWED BY: R. Garrett		SIGNATURE DATE	
REVISIONS		INIT. DATE	
CADD Filename:			

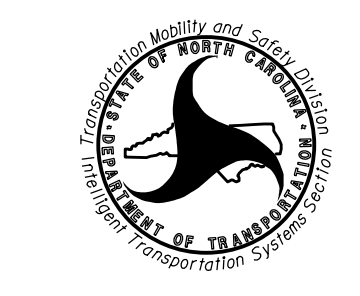


NOTES:

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4. TRANSFER EXISTING CABLE TO NEW POLE AS SHOWN.

Final Design

Prepared for the Offices of:



750 N. Greenfield Place, Garner, NC 27529

0

SCALE

NA

N.T.S.

Final

Communication Cable Routing Plans

Signal System - City of Asheville

DIVISION 13 BUNCOMBE CO. ASHEVILLE

PLAN DATE: November 2025

REVIEWED BY: M. Cavenaugh

PREPARED BY: M. Tindal

REVIEWED BY: R. Garrett

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL



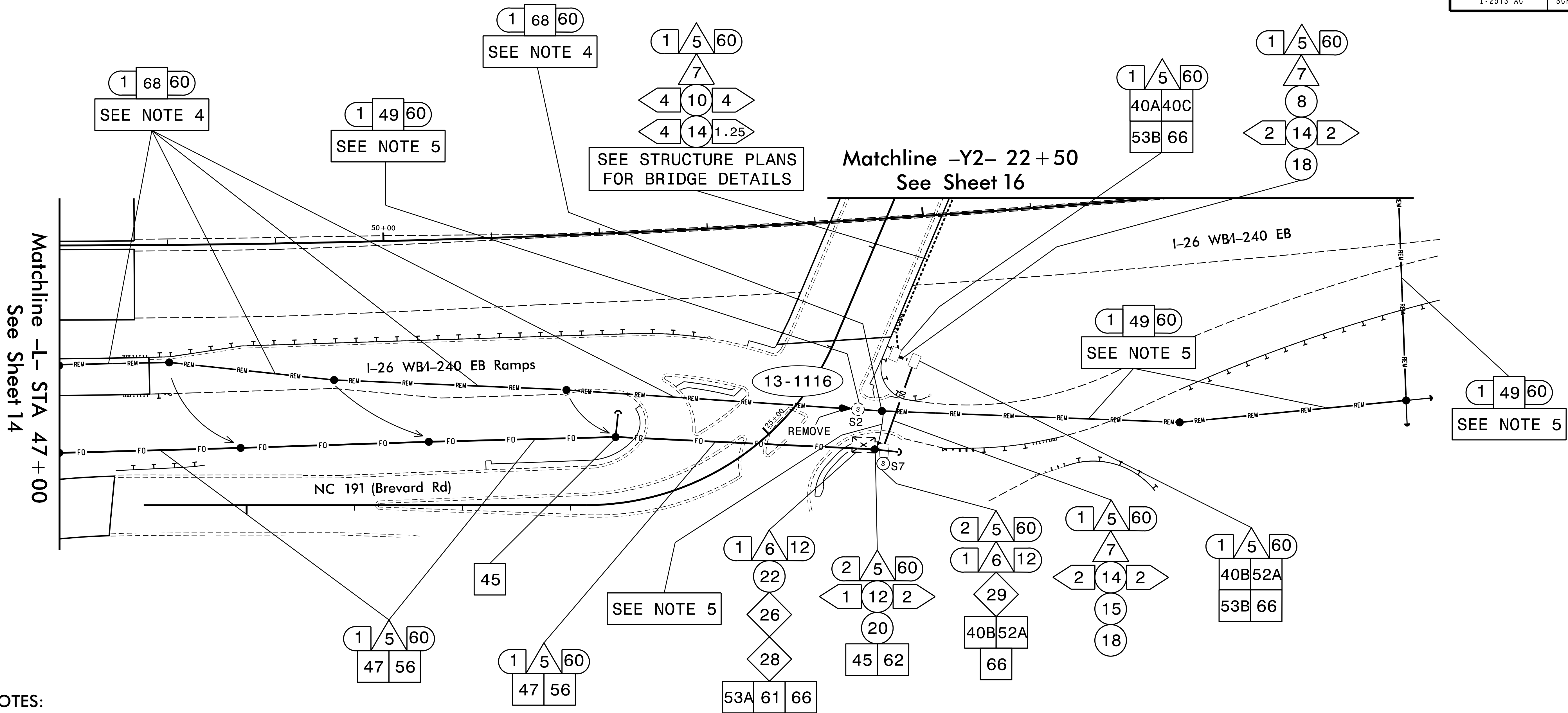
Signed by: Rochelle Barrett 8/10/2026

FOBS1726FAR008

SIGNATURE DATE

CADD Filename:

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NOTES:

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4. TRANSFER EXISTING CABLE TO NEW POLE AS SHOWN.
5. CUT CABLES AT EXISTING SPLICE ENCLOSURE "S2" AND TRANSFER FIBER TO NEW POLE LINE FROM "S1" TO "S7". ALSO, BACKPULL EXISTING FIBER OPTIC CABLE FROM EXISTING SPLICE ENCLOSURE "S3" TO EXISTING SPLICE ENCLOSURE "S2" AND TRANSFER TO POLE NEAR CABINET AND REROUTE TO THE NEW SPLICE ENCLOSURES "S7" AND "S8" AS SHOWN.

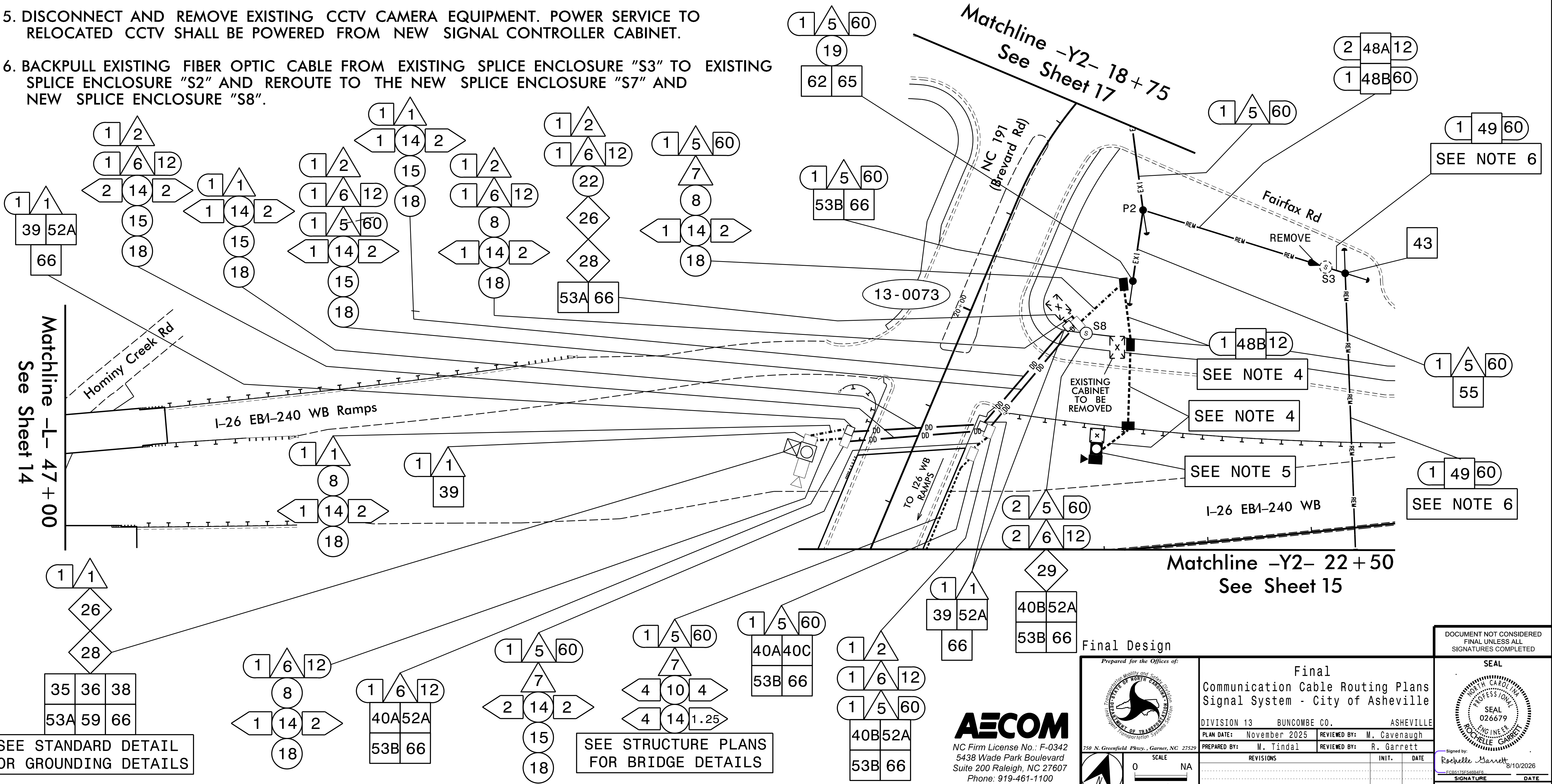
Final Design		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared for the Offices of:  750 N. Greenfield Place, Garner, NC 27529		Final Communication Cable Routing Plans Signal System - City of Asheville DIVISION 13 BUNCOMBE CO. ASHEVILLE PLAN DATE: November 2025 REVIEWED BY: M. Cavenaugh PREPARED BY: M. Tindal REVIEWED BY: R. Garrett	
SCALE 0 NA N.T.S.		SEAL PROFESSIONAL SEAL 026679 ENGINEER ROCHELLE GARRETT Signed by: Rochelle Barrett 8/10/2026 FOBSITREFMABES SIGNATURE DATE CADD Filename:	

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5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

NOTES:

PROJECT REFERENCE NO.	SHEET NO.
I-2513 AC	SCP 16

1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER AT (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM 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 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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5. DISCONNECT AND REMOVE EXISTING CCTV CAMERA EQUIPMENT. POWER SERVICE TO RELOCATED CCTV SHALL BE POWERED FROM NEW SIGNAL CONTROLLER CABINET.
6. BACKPULL EXISTING FIBER OPTIC CABLE FROM EXISTING SPLICE ENCLOSURE "S3" TO EXISTING SPLICE ENCLOSURE "S2" AND REROUTE TO THE NEW SPLICE ENCLOSURE "S7" AND NEW SPLICE ENCLOSURE "S8".



8/10/2026
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rochelle.garrett

Final Design

Prepared for the Offices of:



250 N. Greenfield Place, Garner, NC 27529

Final
Communication Cable Routing Plans
Signal System - City of Asheville

DIVISION 13

BUNCOMBE CO.

ASHEVILLE

PLAN DATE: November 2025

REVIEWED BY: M. Cavenaugh

PREPARED BY: M. Tindal

REVIEWED BY: R. Garrett

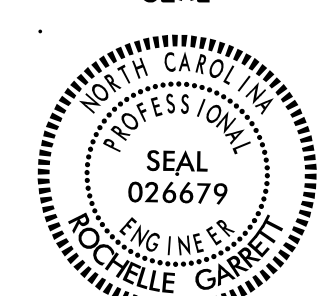
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SEAL



ROCHELLE BARRETT
PROFESSIONAL ENGINEER
SEAL 026679

Signed by:

Rochelle Barrett

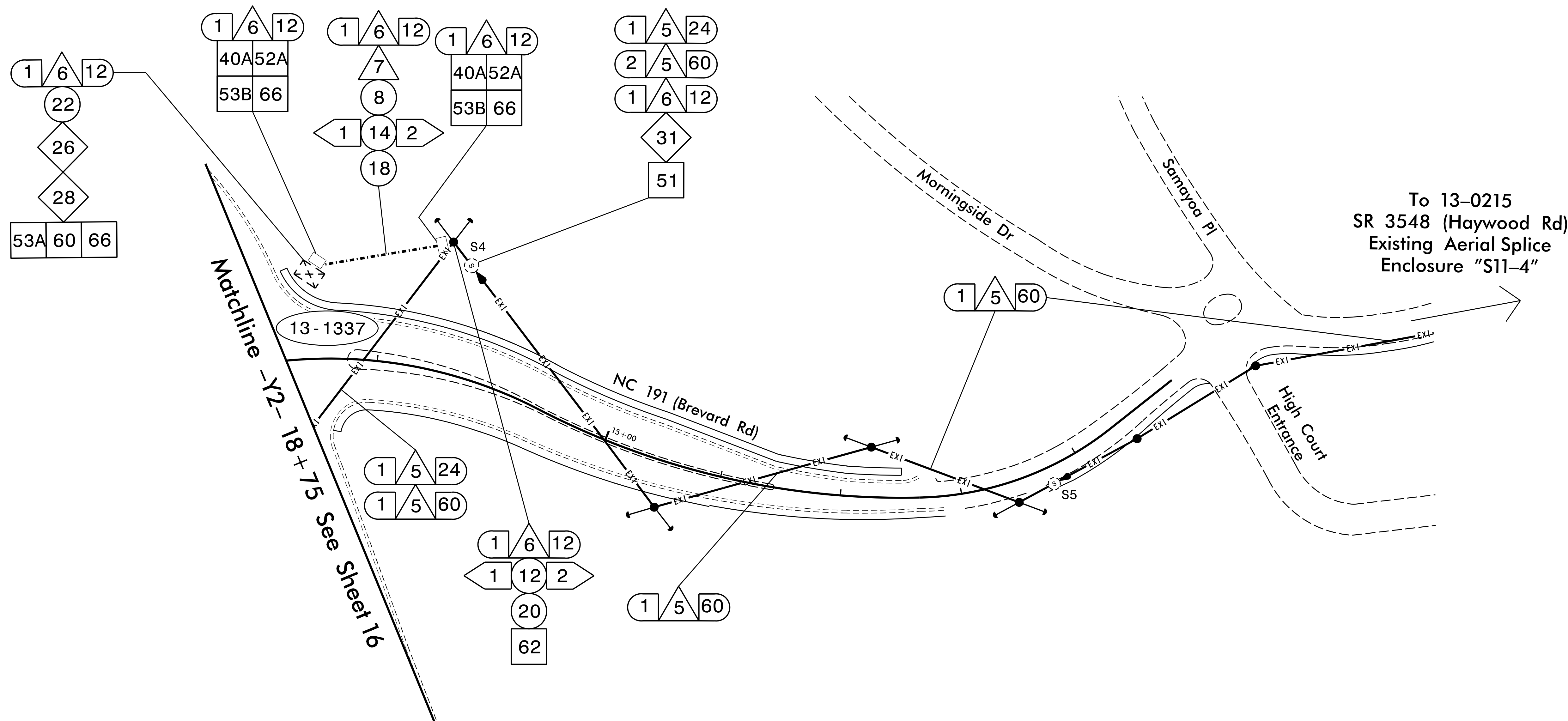
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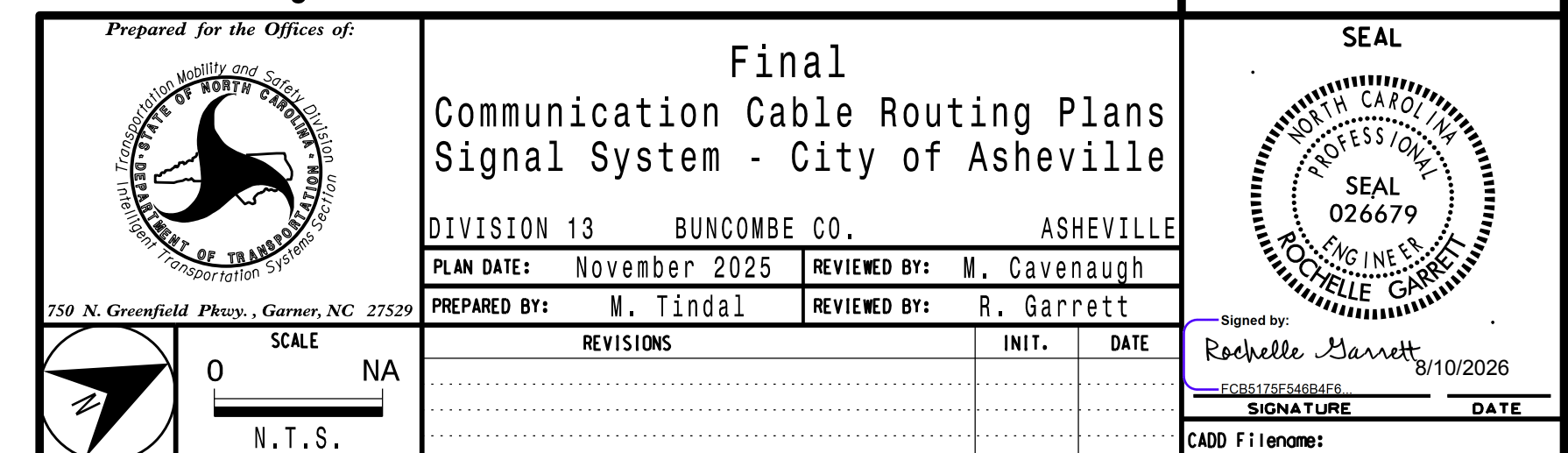
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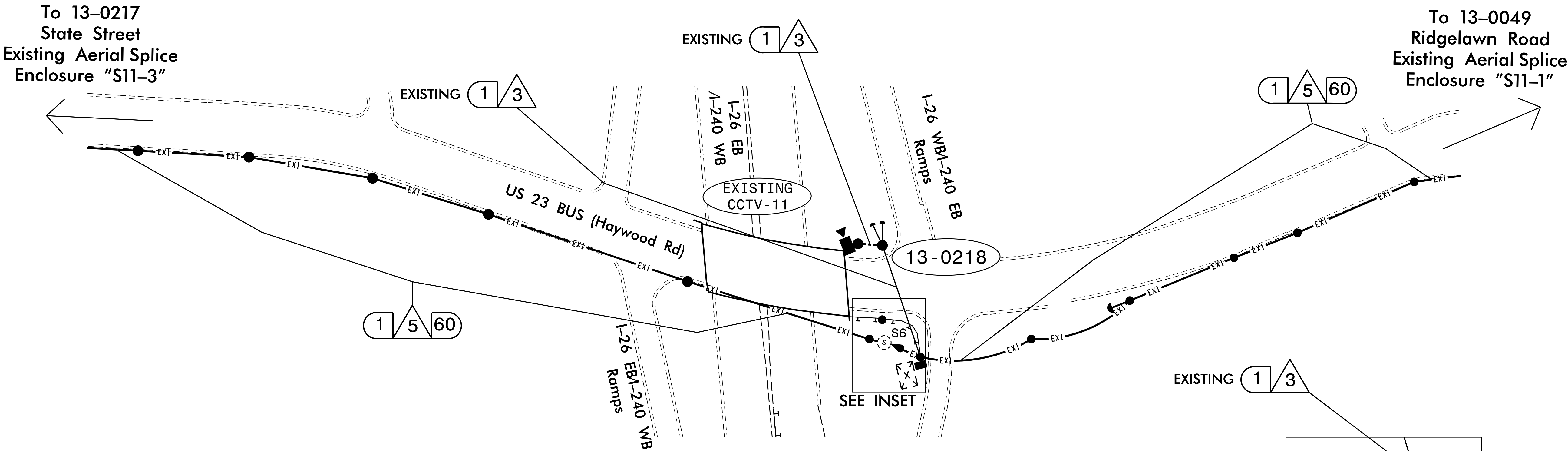


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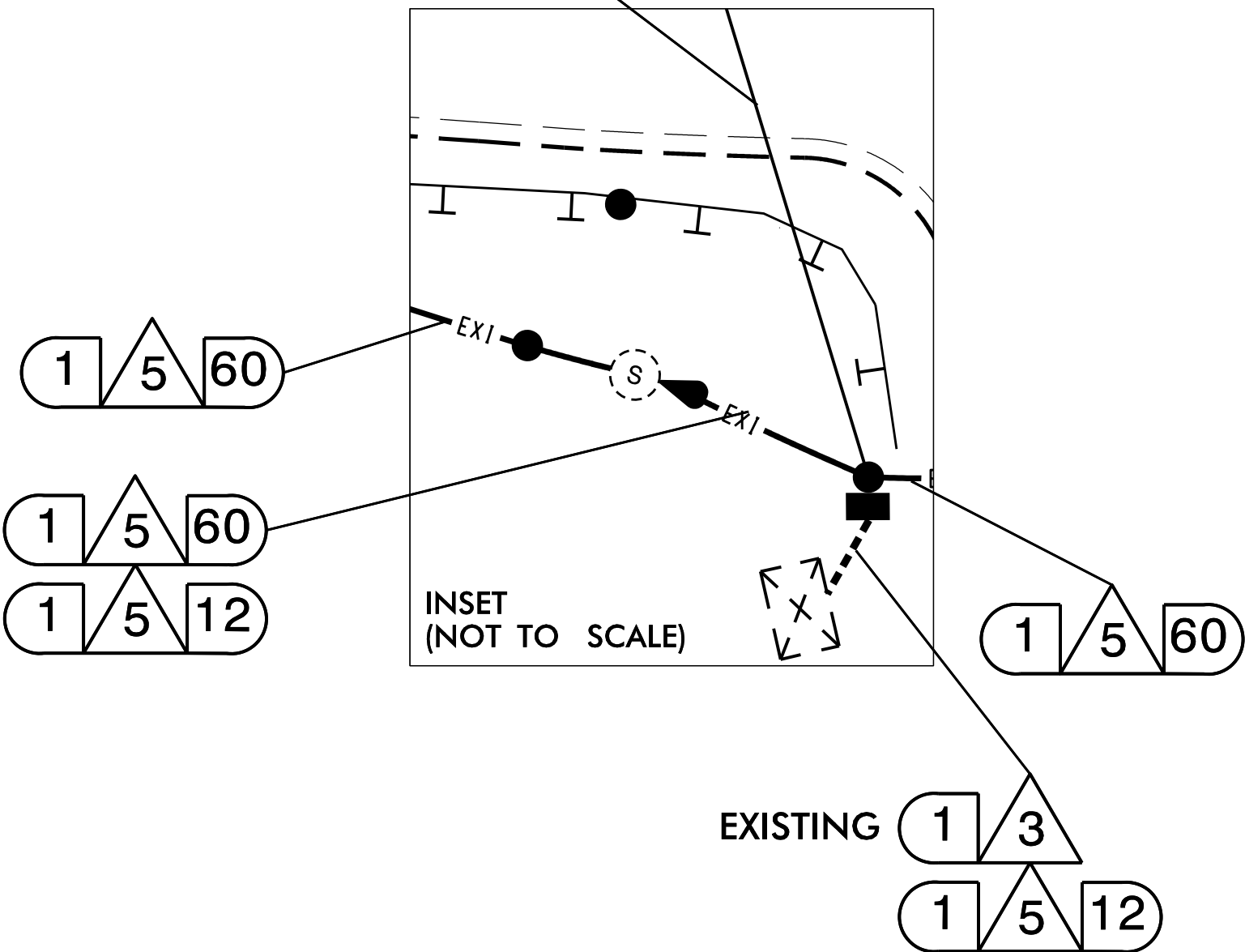


NO WORK IS BEING PERFORMED ON THIS SHEET
SHOWN FOR INFORMATION ONLY



NOTES:

1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER AT (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM 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 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.
2. CONTRACTOR TO RECORD EXISTING SPLICE ARRANGEMENT FOR COMPARISON TO THE SUPPLIED SPLICE PLANS. IF DISCREPANCIES EXIST, CONTACT THE ENGINEER TO DETERMINE HOW TO PROCEED WITH RESPLICING. PROVIDE AS-BUILT PLANS TO THE ENGINEER IF FINAL SPLICE ARRANGEMENT DIFFERS FROM THE SUPPLIED SPLICE PLANS.
3. MAINTAIN CAMERA FUNCTIONALITY THROUGHOUT THE LIFE OF THE PROJECT.



Final Design



Prepared for the Offices of:  750 N. Greenfield Place, Garner, NC 27529		Final Communication Cable Routing Plans Signal System - City of Asheville DIVISION 13 BUNCOMBE CO. ASHEVILLE PLAN DATE: November 2025 REVIEWED BY: M. Cavanaugh PREPARED BY: M. Tindal REVIEWED BY: R. Garrett		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
SCALE 0 NA N.T.S.		REVISIONS INIT. DATE		SEAL PROFESSIONAL ENGINEER ROCHELLE GARRETT SEAL 026679 Signed by: <i>Rochelle Garrett</i> 8/10/2026 SIGNATURE DATE CADD Filename:	

PROJECT REFERENCE NO.	SHEET NO.
I-2513 AC	SCP 19

EXISTING AERIAL SPLICE ENCLOSURE
"S1" HOMINY CREEK ROAD
NORTH OF NC 191 (BREVARD ROAD)

LEGEND

X = FUSION SPLICE
E = EXISTING SPLICE
C = CAP AND SEAL

EXPRESS

= EXPRESS ALL FIBERS/
BUFFER TUBES

SPLICE

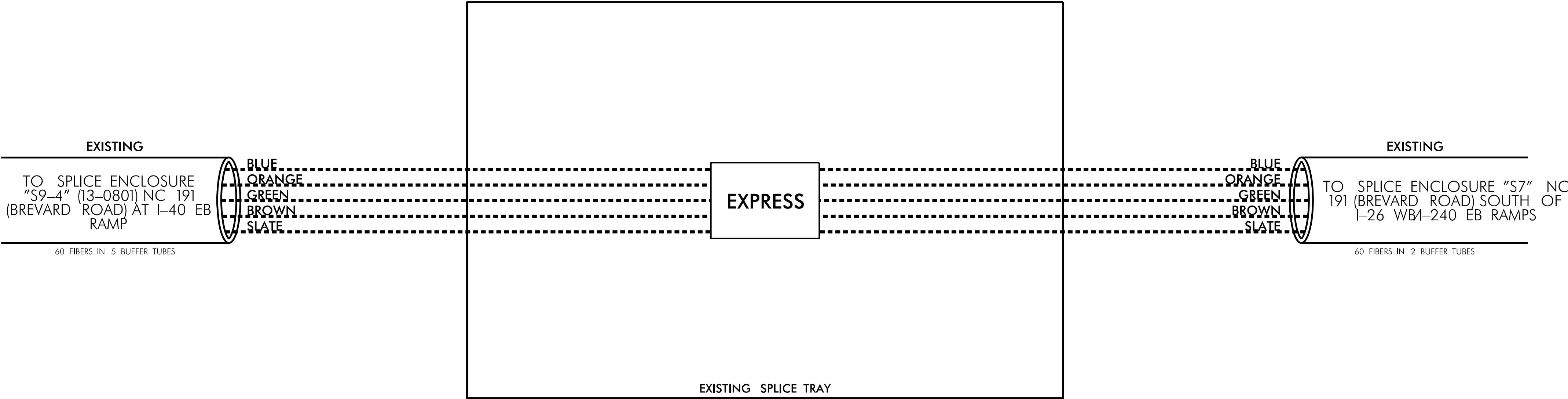
= SPLICE ALL FIBERS/
BUFFER TUBES

COLOR CODE
TIA/EIA 598-A

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
(5) SLATE	(11) ROSE
(6) WHITE	(12) AQUA

Notes:

Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.



1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER AT (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM 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 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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3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
4. 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.

Final Design

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

Prepared for the Offices of:  750 N. Greenfield Place, Garner, NC 27529		Asheville Signal System Splice Details DIVISION 13 BUNCOMBE CO., ASHEVILLE PLAN DATE: November 2025 REVIEWED BY: M. Cavenaugh PREPARED BY: M. Tindal REVIEWED BY: R. Garrett		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
REVISIONS		INIT.	DATE	Signed by:  ROCHELLE GARRETT F08317264888 SIGNATURE DATE	
				CADD Filename:	

NEW UNDERGROUND SPLICE ENCLOSURE
"S7" NC 191 (BREVARD ROAD)
AT I-26 WB /I-240 EB RAMP
SIG. INV. #13-1116

LEGEND

X = FUSION SPLICE
E = EXISTING SPLICE
C = CAP AND SEAL

EXPRESS = EXPRESS ALL FIBERS/
BUFFER TUBES

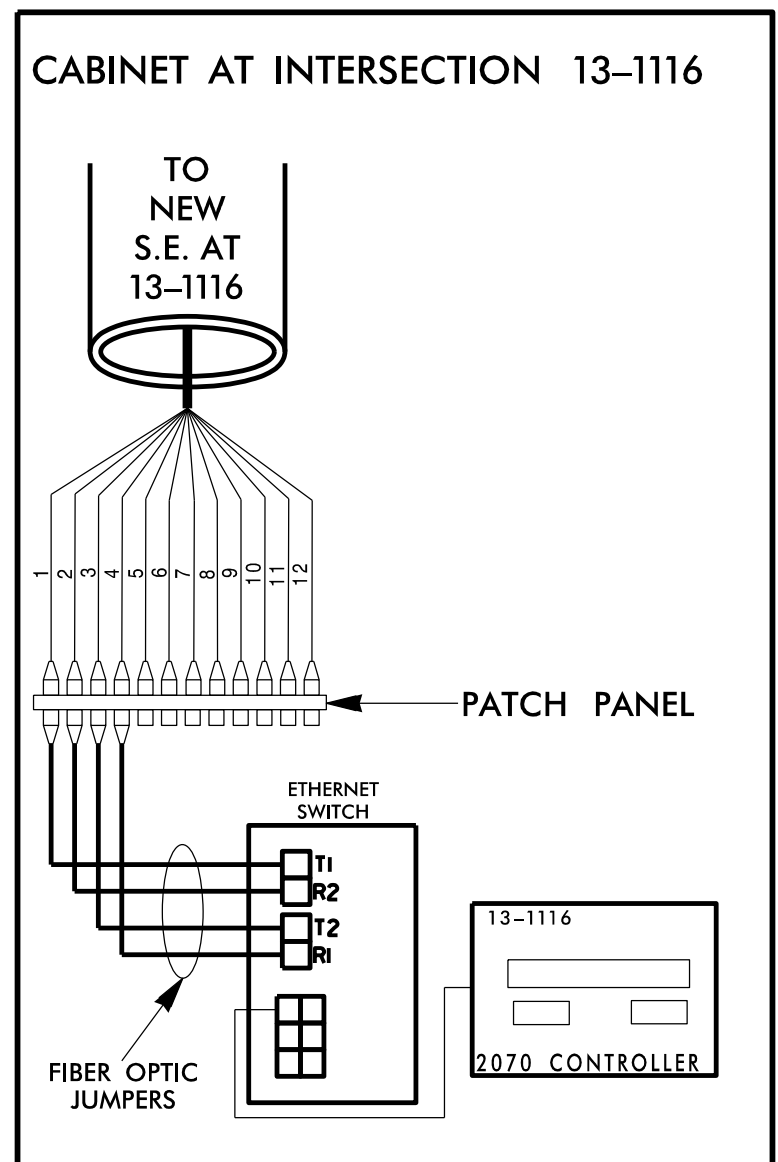
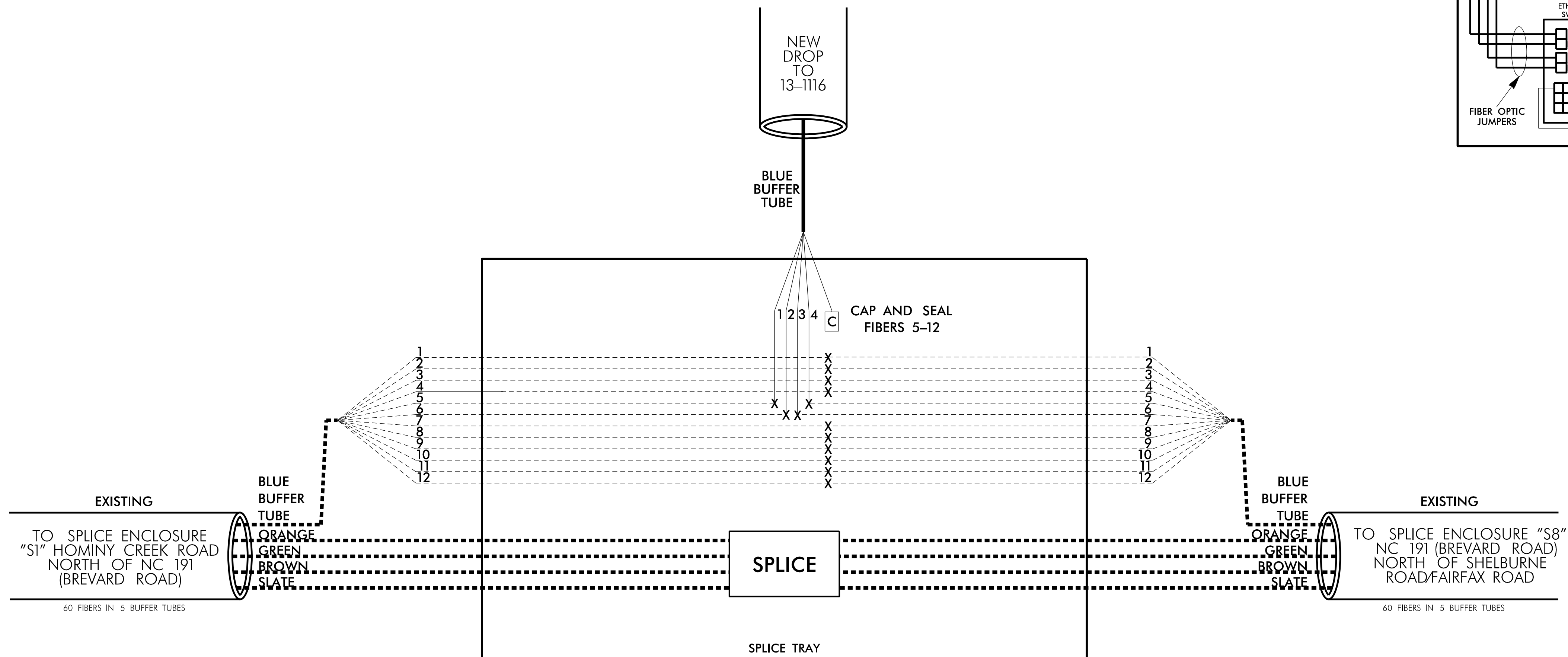
SPLICE = SPLICE ALL FIBERS/
BUFFER TUBES

COLOR	CODE
TIA/EIA	598-A

(1) BLUE (7) RED
(2) ORANGE (8) BLACK
(3) GREEN (9) YELLOW
(4) BROWN (10) VIOLET
(5) SLATE (11) ROSE
(6) WHITE (12) AQUA

Notes:

Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.



1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER AT (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM 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 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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3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING \ ENSURING PROPER TERMINATIONS.
4. 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.

Final Design



750 N. Greenfield Pkwy., Garner, NC 27529

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

Asheville Signal System Splice Details

DIVISION 13 BUNCOMBE CO. ASHEVILLE

PLAN DATE: November 2025	REVIEWED BY: M. Cavanaugh
--------------------------	---------------------------

PREPARED BY:	M. Tindal	REVIEWED BY:	R. Garrett
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REVISIONS	INIT.	DATE

[illegible]

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL



Signed by:

Rochelle Garrett 8/10/2023

FCB5175F548B4F6...
SIGNATURE

CADD Filename:

NEW UNDERGROUND SPLICE ENCLOSURE
"S8" NC 191 (BREVARD ROAD)
NORTH OF I-26 EB/I-240 WB RAMP
SIG.INV. #13-0073

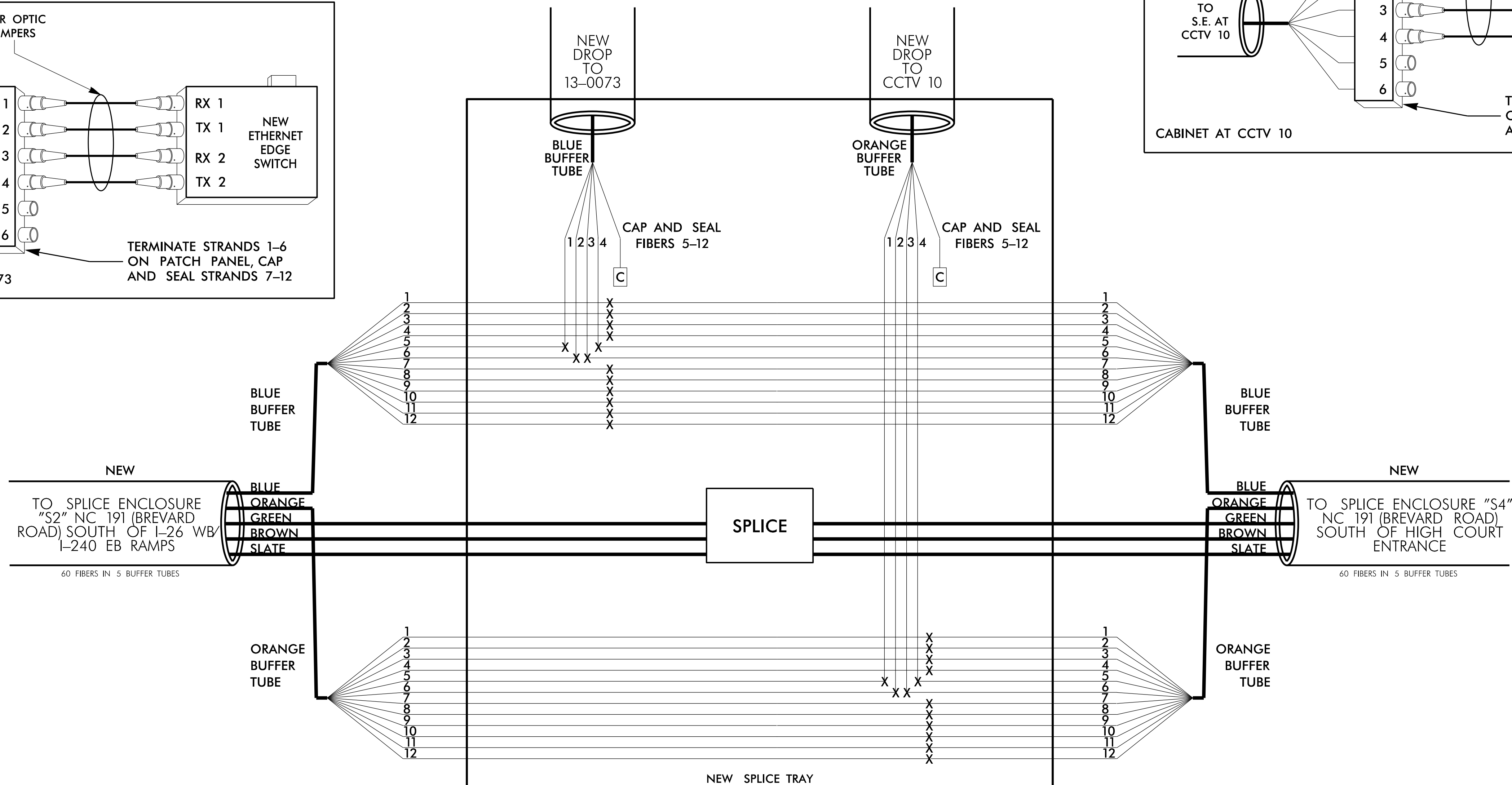
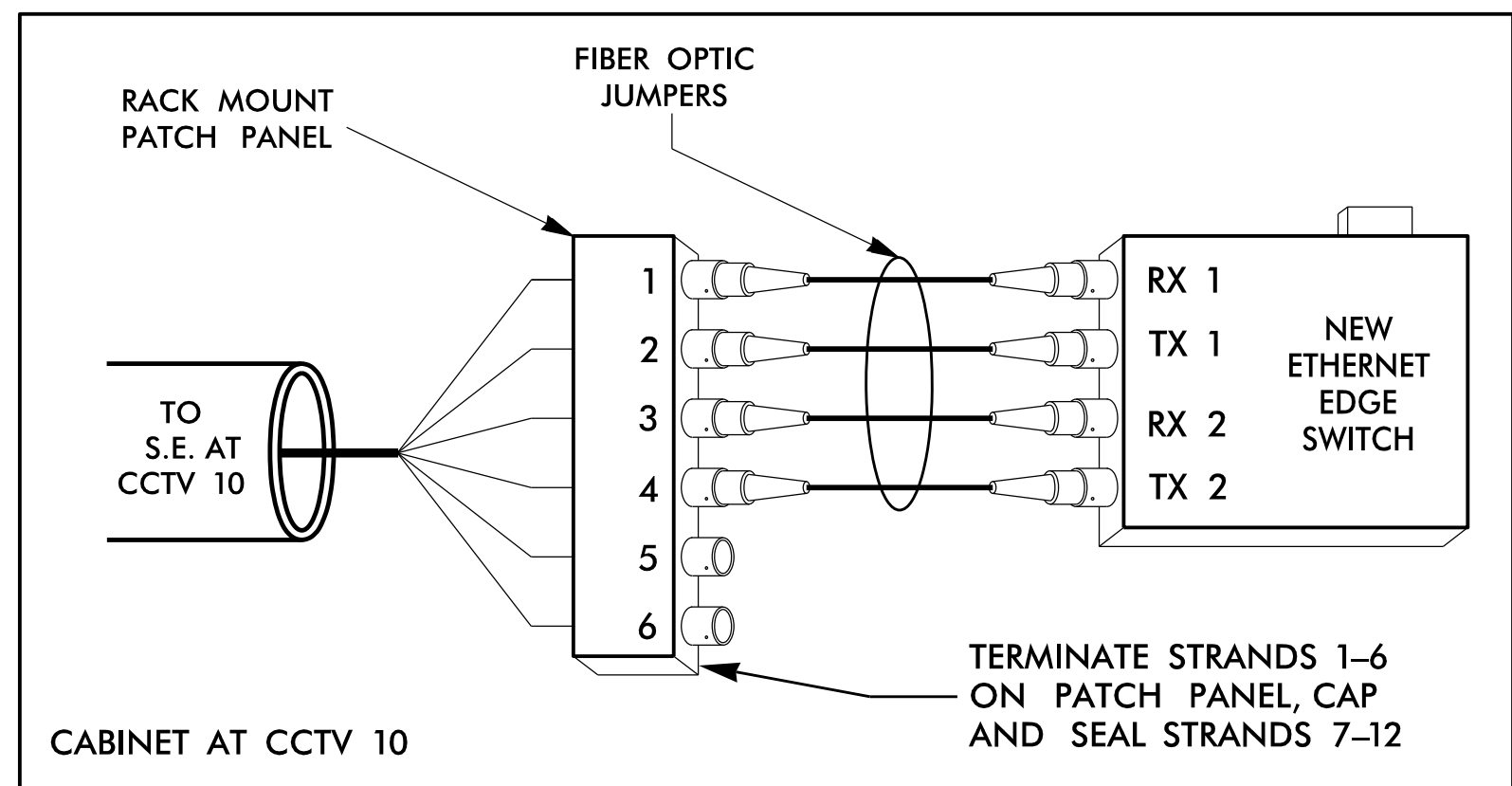
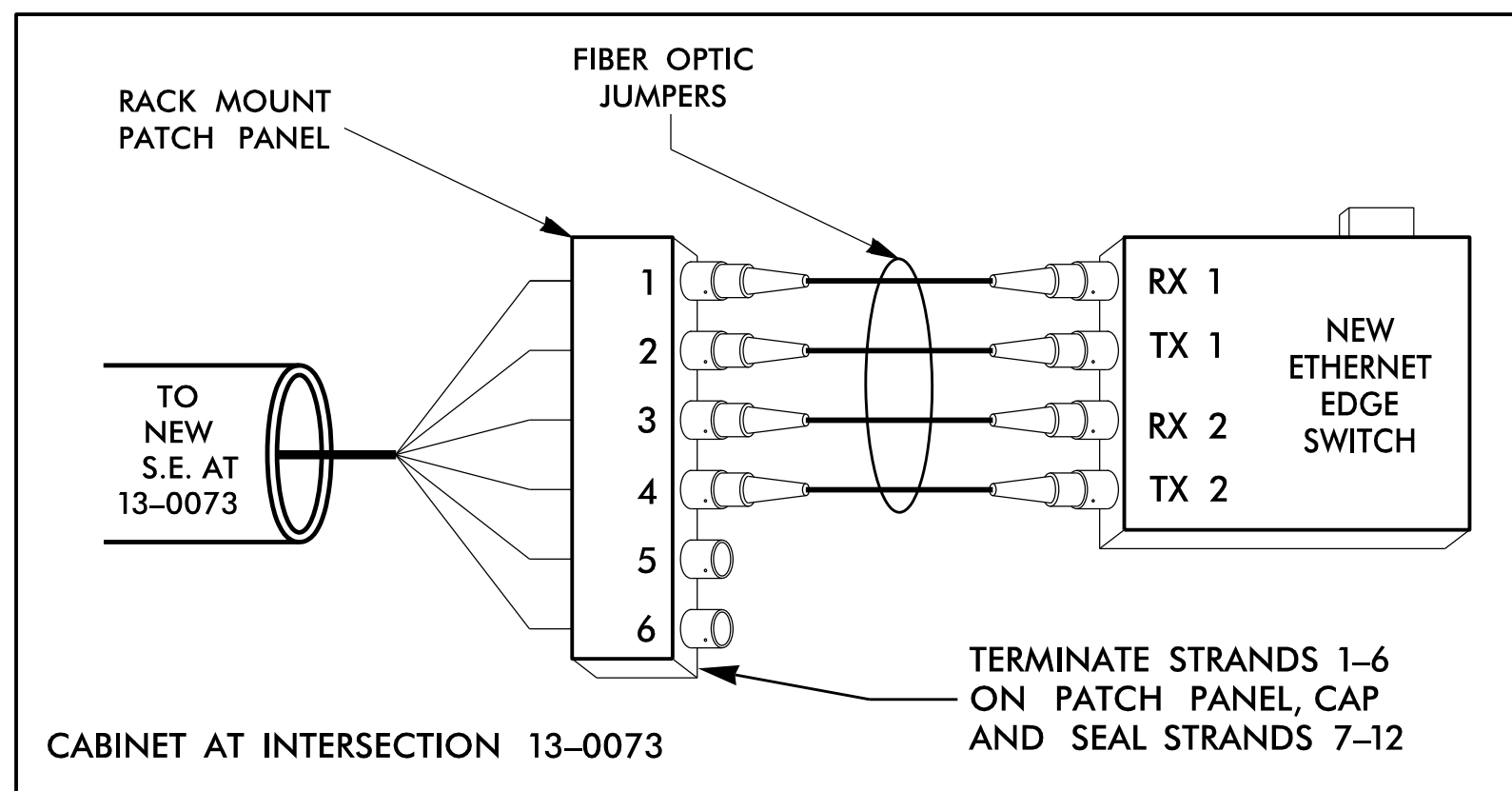
Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.

X = FUSION SPLICE
E = EXISTING SPLICE
C = CAP AND SEAL

EXPRESS = EXPRESS ALL FIBERS/
BUFFER TUBES

SPLICE = SPLICE ALL FIBERS/
BUFFER TUBES

(1) BLUE (7) RED
(2) ORANGE (8) BLACK
(3) GREEN (9) YELLOW
(4) BROWN (10) VIOLET
(5) SLATE (11) ROSE
(6) WHITE (12) AQUA

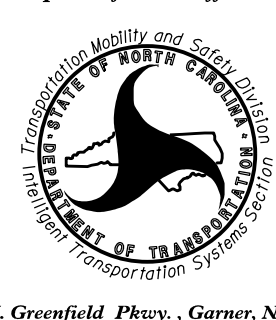


1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE 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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4. 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.

Prepared for the Offices of:



AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

750 N. Greenfield Pkwy., Garner, NC 27529

Asheville Signal System Splice Details

DIVISION 13 BUNCOMBE CO. ASHEVILLE

PLAN DATE: November 2025	REVIEWED BY: M. Cavanaugh
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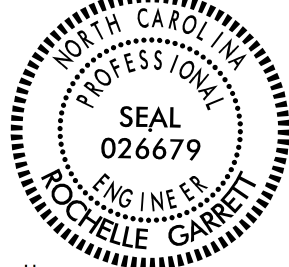
PREPARED BY: M. Tindal	REVIEWED BY: R. Garrett
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REVISIONS	INIT.	DATE
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DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

■■■■■



Rockwell

ECB5175F5

SIGN.

ADD Filend

EXISTING AERIAL SPLICE ENCLOSURE
"S4" NC 191 (BREVARD ROAD)
AT SHELBURNE ROAD /FAIRFAX ROAD
SIG. INV. #13-1337

Notes:
Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.

LEGEND

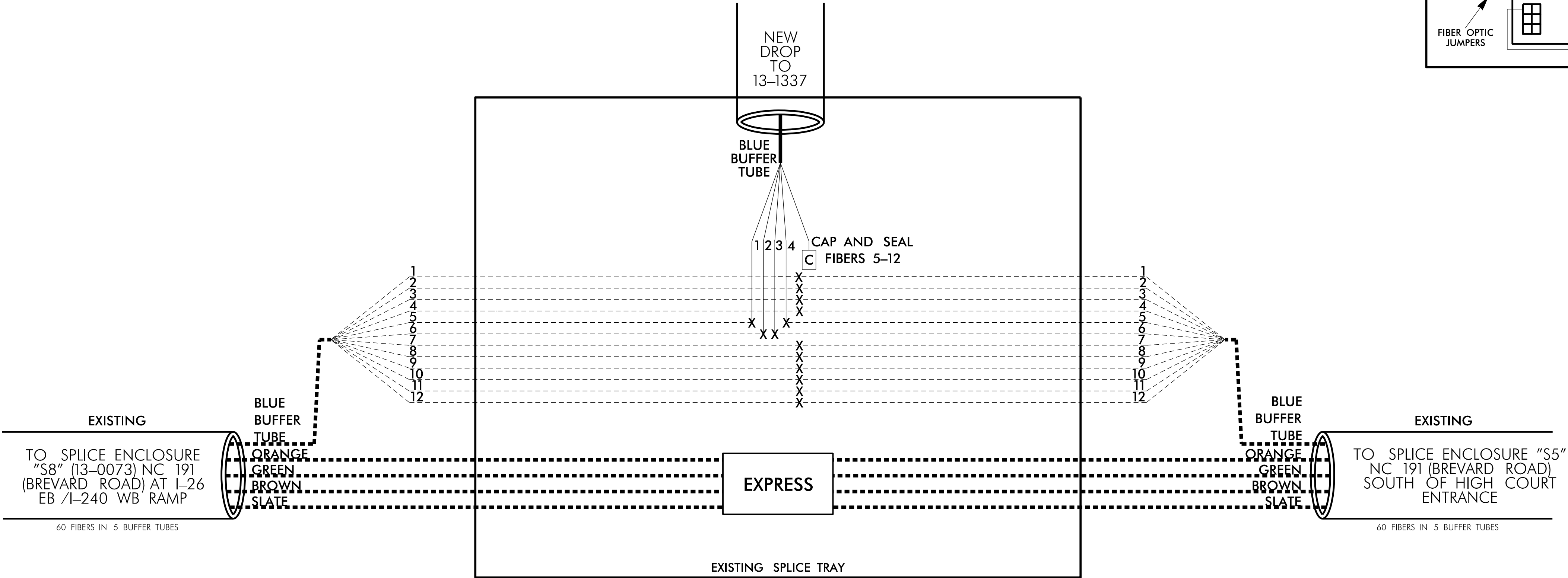
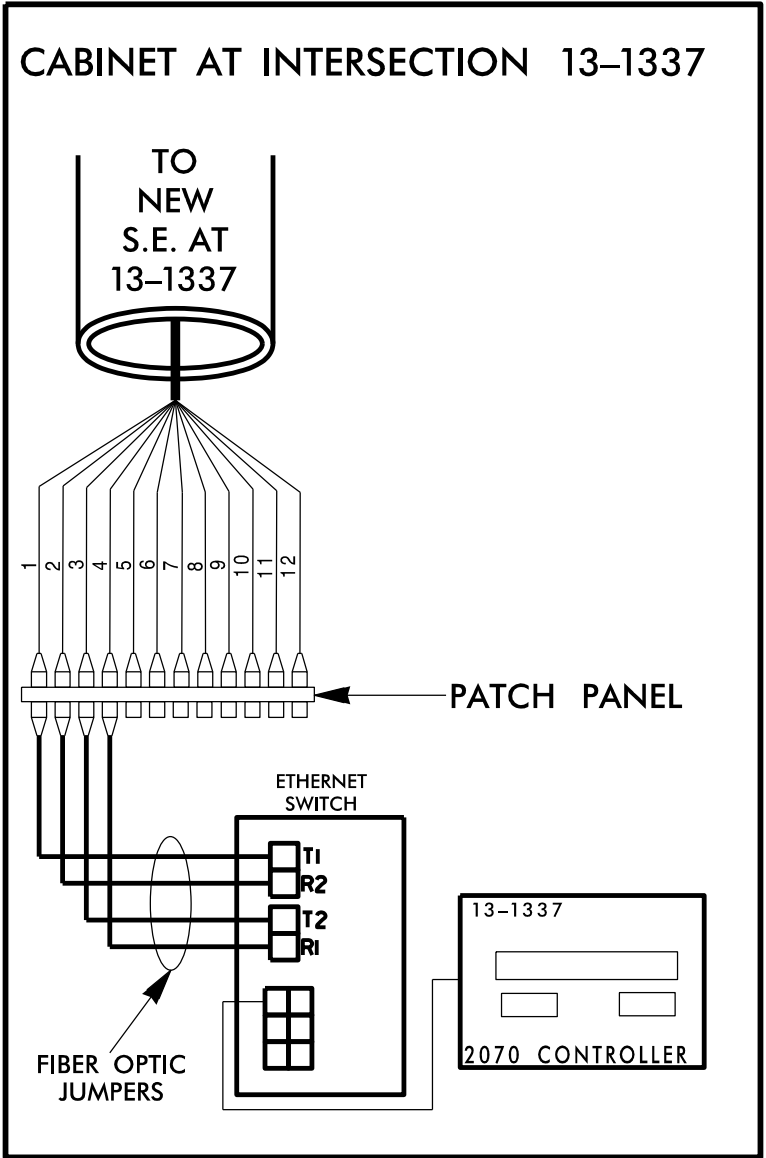
X = FUSION SPLICE
E = EXISTING SPLICE
C = CAP AND SEAL

EXPRESS = EXPRESS ALL FIBERS/
BUFFER TUBES

SPLICE = SPLICE ALL FIBERS/
BUFFER TUBES

COLOR CODE
TIA/EIA 598-A

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
(5) SLATE	(11) ROSE
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1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER AT (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM 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 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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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.

Final Design

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

Prepared for the Offices of:  750 N. Greenfield Place, Garner, NC 27529		Asheville Signal System Splice Details DIVISION 13 BUNCOMBE CO., ASHEVILLE PLAN DATE: November 2025 REVIEWED BY: M. Cavanaugh PREPARED BY: M. Tindal REVIEWED BY: R. Garrett		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
REVISIONS		INIT.	DATE	SEAL 	
				Signed by:  ROCHELLE GARRETT SIGNATURE DATE CADD Filename:	

PROJECT REFERENCE NO.	SHEET NO.
I-2513 AC	SCP 23

NO WORK IS BEING PERFORMED ON THIS SHEET
SHOWN FOR INFORMATION ONLY

EXISTING AERIAL SPLICE ENCLOSURE
"S5" NC 191 (BREVARD ROAD)
NORTH OF SHELburnE ROAD/FAIRFAX ROAD

Notes:

Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.

LEGEND

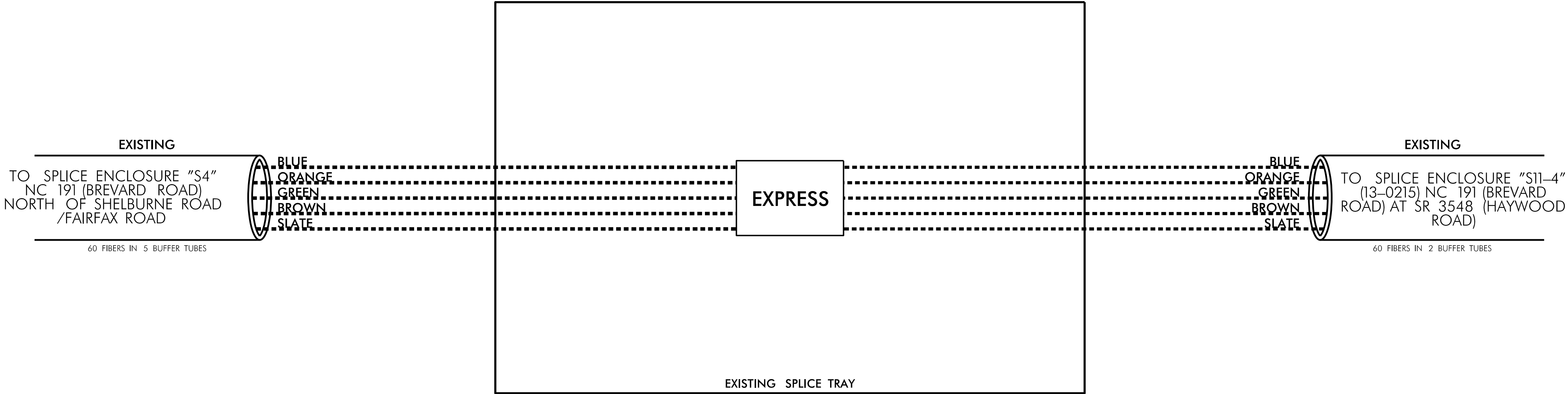
X = FUSION SPLICE
E = EXISTING SPLICE
C = CAP AND SEAL

EXPRESS = EXPRESS ALL FIBERS/
BUFFER TUBES

SPLICE = SPLICE ALL FIBERS/
BUFFER TUBES

COLOR CODE
TIA/EIA 598-A

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
(3) GREEN	(9) YELLOW
(4) BROWN	(10) VIOLET
(5) SLATE	(11) ROSE
(6) WHITE	(12) AQUA



- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION TRAFFIC ENGINEER AT (828) 250-3035 TO ARRANGE FOR NCDOT TO PROGRAM 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 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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- INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:
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- SPLICE LOCATION
- DATE
- COMPANY NAME
- 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.

Final Design

AECOM
NC Firm License No.: F-0342
5438 Wade Park Boulevard
Suite 200 Raleigh, NC 27607
Phone: 919-461-1100

Prepared for the Offices of:  750 N. Greenfield Place, Garner, NC 27529		Asheville Signal System Splice Details DIVISION 13 BUNCOMBE CO. ASHEVILLE PLAN DATE: November 2025 REVIEWED BY: M. Cavenaugh PREPARED BY: M. Tindal REVIEWED BY: R. Garrett		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
REVISIONS		INIT.	DATE	Signed by:  ROCHELLE BARRETT F083179FARBER SIGNATURE DATE	
CADD Filename:					

EXISTING AERIAL SPLICE ENCLOSURE
"S6" US 23 BUS /SR 3548 (HAYWOOD ROAD)
AT I-26 WB /I-240 EB RAMP
SIG. INV. #13-0218

Notes:
Unused fibers left coiled and stored in splice tray.
Unused Buffer Tubes left coiled and stored in splice tray.

LEGEND

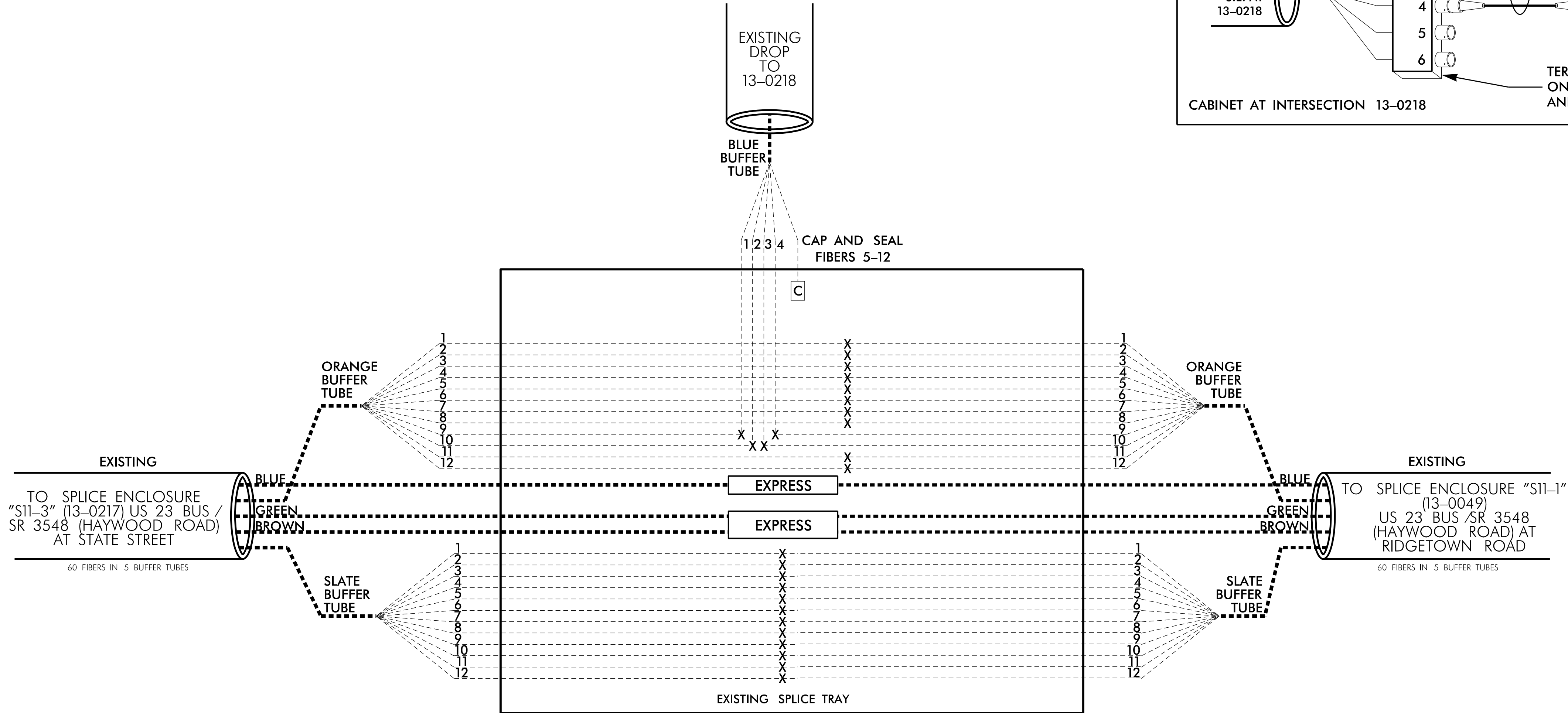
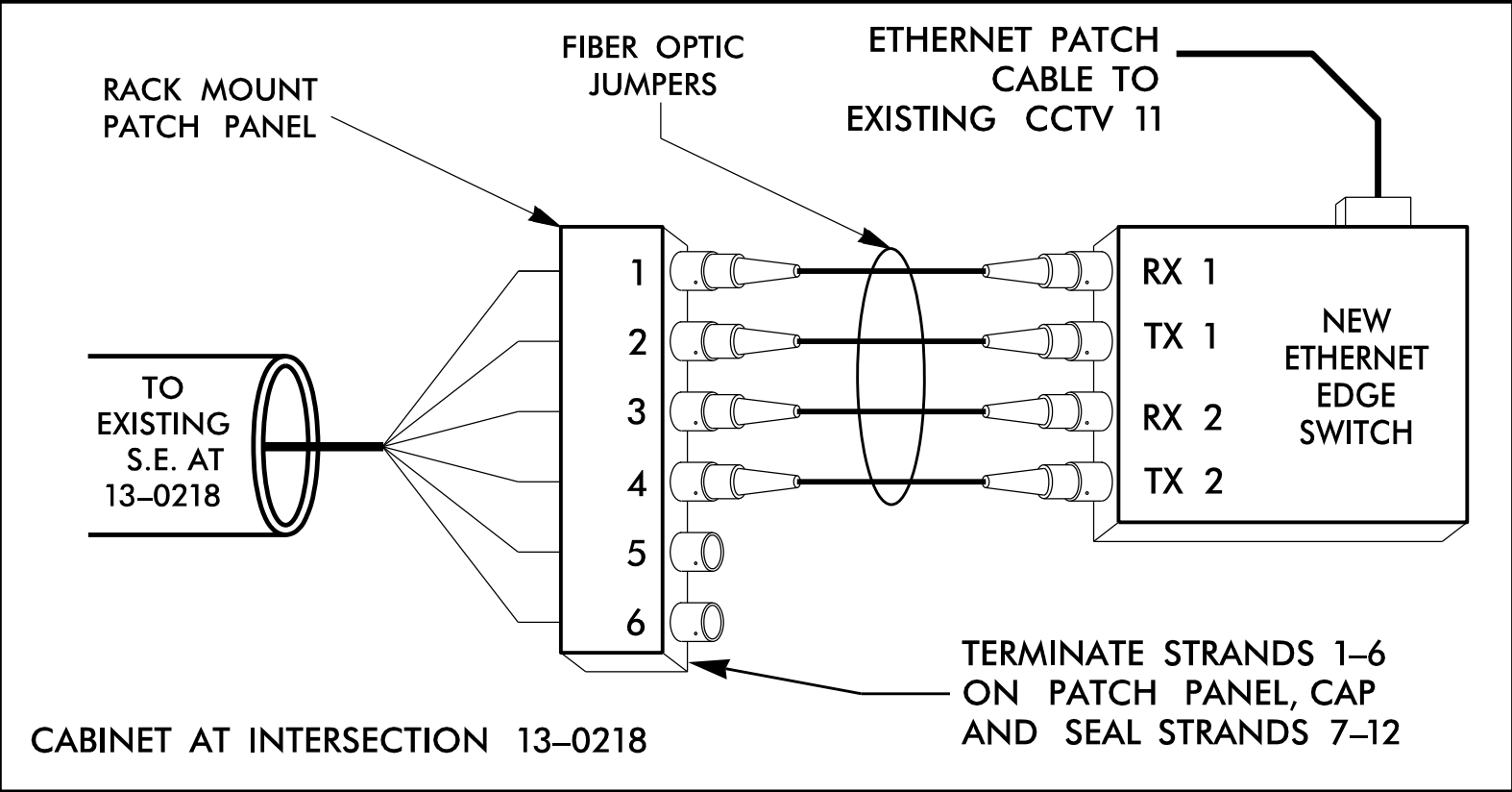
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COLOR CODE
TIA/EIA 598-A

(1) BLUE	(7) RED
(2) ORANGE	(8) BLACK
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(4) BROWN	(10) VIOLET
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- 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.

Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

Asheville Signal System
Splice Details

DIVISION 13 BUNCOMBE CO. ASHEVILLE

PLAN DATE: November 2025 REVIEWED BY: M. Cavanaugh

PREPARED BY: M. Tindal REVIEWED BY: R. Garrett

REVISIONS INIT. DATE

SIGNATURE DATE

SEAL

PROFESSIONAL SEAL 026679

ENGINEER

Signed by: Rochelle Barrett 8/10/2026

FOR SIGNATURES

SIGNATURE DATE

CADD Filename: