

Install 8.5 dBd Yagi antenna (vertically polarized)
Attach antenna 40" below power

14-0423 Mill Street

14-0414

US 23 Business (W Main Street)

14-0681

Pole Mounted Cabinet:
Install new 2" riser between
cabinet & hand hole of metal
pole - see installation note 2

Install Ethernet Edge Switch
Install 900 MHz serial/Ethernet
Spread Spectrum Radio

Pole Mounted Cabinet
Install new 2" riser between cabinet & hand hole of metal pole - see installation note 2
Install cell modem
Install Ethernet Edge Switch
Install 900 MHz serial/Ethernet Spread Spectrum Radio

Install 6 dBd Omni
(vertically polarized),
Attach antenna on top of pole
a minimum of 6' away from
the vertical shaft member,
while maintaining 3' from
adjacent signal head

Pole Mounted Cabinet:
Install new 2" riser between
cabinet & hand hole of metal
pole - see installation note 2
Install Ethernet Edge Switch
Install 900 MHz serial/Ethernet
Spread Spectrum Radio

Install 6 dBD Omni antenna (vertically polarized) Attach antenna on top of pole at a minimum of 6' away from the vertical shaft member, while maintaining 3' from adjacent signal head
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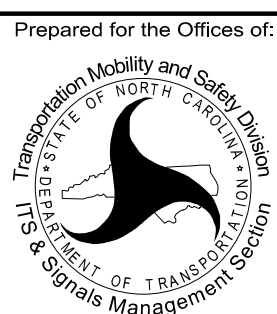
Install 8.5 dBi Yagi antenna
(vertically polarized).
Attach antenna on mast arm
at a minimum of 6' away from
the vertical shaft member,
while maintaining 3' from
adjacent signal head

1. Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024. See RSD 1736.01 for Spread Spectrum Radio drawing.
2. Install Coaxial Cable:
 - A. On wood poles, requiring a new rigid galvanized steel riser, install a 2" riser with weatherhead and route the coaxial cable to the antenna.
 - B. On metal poles with mast arms, run coaxial cable up through the pole and out the mast arm; field drill a 1/2" hole up through the bottom of mast arm for installation of the coaxial cable to the antenna.
 - C. On metal strain poles, run coaxial cable up through the pole and out the weatherhead and route the coaxial cable to the antenna.
 - D. Between the point of exiting the riser, metal pole or mast arm and the antenna, secure the coaxial cable to the structure using 3/4" stainless steel straps every 12".
3. If an existing 2" spare rigid galvanized steel riser is available, install the coaxial cable in the spare riser.
4. Install wireless antenna on pole with RF warning sign. (Note: RF warning sign not required when antenna is installed on an NCDOT-owned pole.)
5. Maintain proper clearance from all utilities per the National Electric Safety Code.
6. Install wireless serial/Ethernet radio with exterior disconnect switch located on cabinet.
(Note: RF antenna disconnect switch and decal are not required when the antenna is installed on an NCDOT-owned pole.)
7. Reference "wireless radio antenna typical details."
8. Request a cell modem from Deputy Division Traffic Engineer (828)331-5253 and allow Division an eight week lead time to acquire the cell modem.



DRMP

DRMP, INC.
8210 UNIVERSITY EXECUTIVE PARK DR.
SUITE 220
CHARLOTTE, NC 28262
NC LICENSE NO. F-1524 (704) 549-4260



750 N. Greenfield Pkwy, Garner, NC 27529

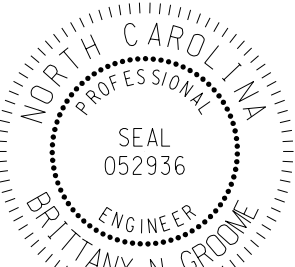
Division 14 Jackson County Sylva

PLAN DATE:	June 2025	REVIEWED BY:	BN Groome
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PREPARED BY:	DJ White	REVIEWED BY:	LM Moon
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REVISIONS	INIT.	DATE
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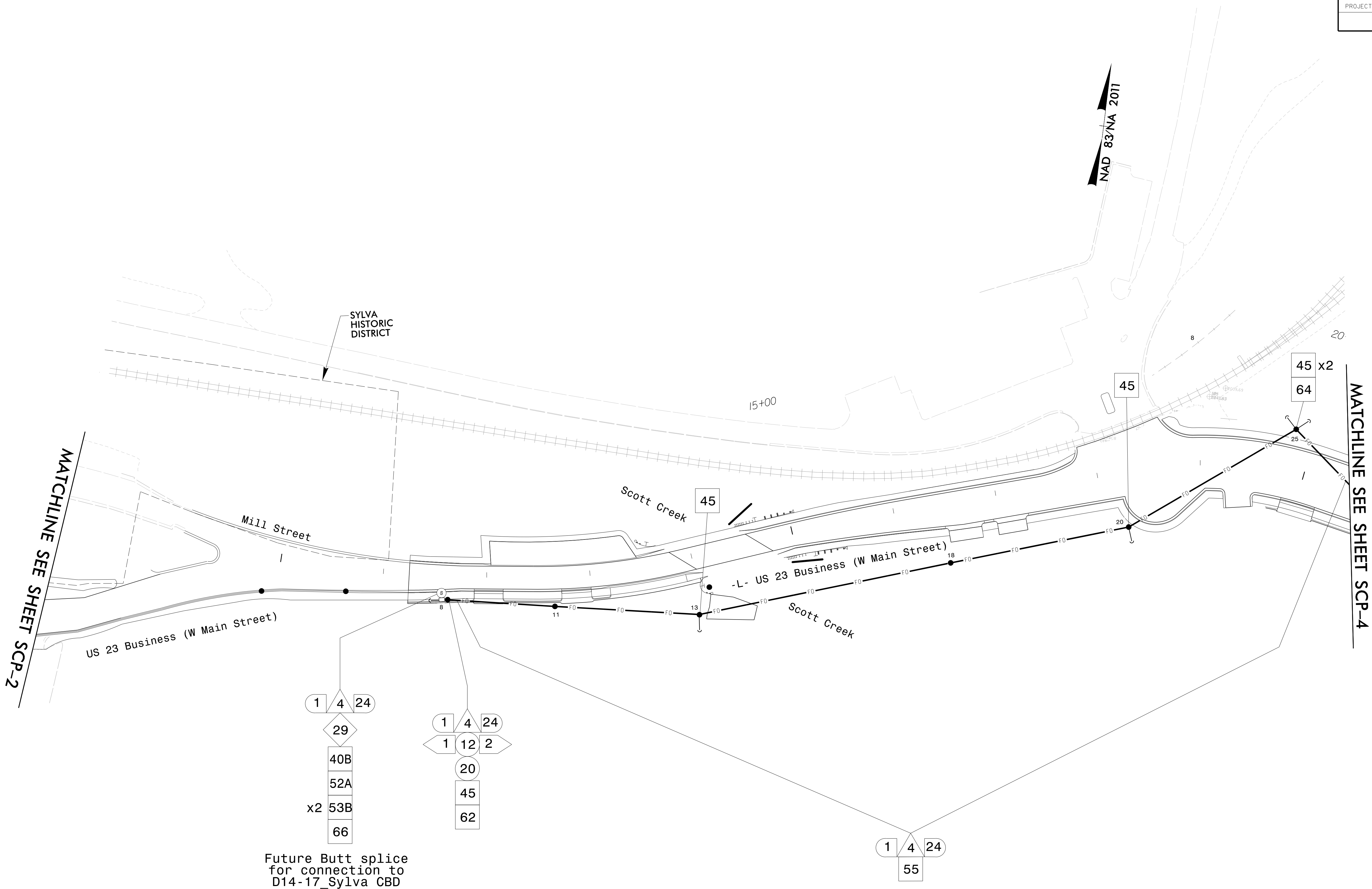
SF AI



Signed by

Brittany Groome

DATE _____



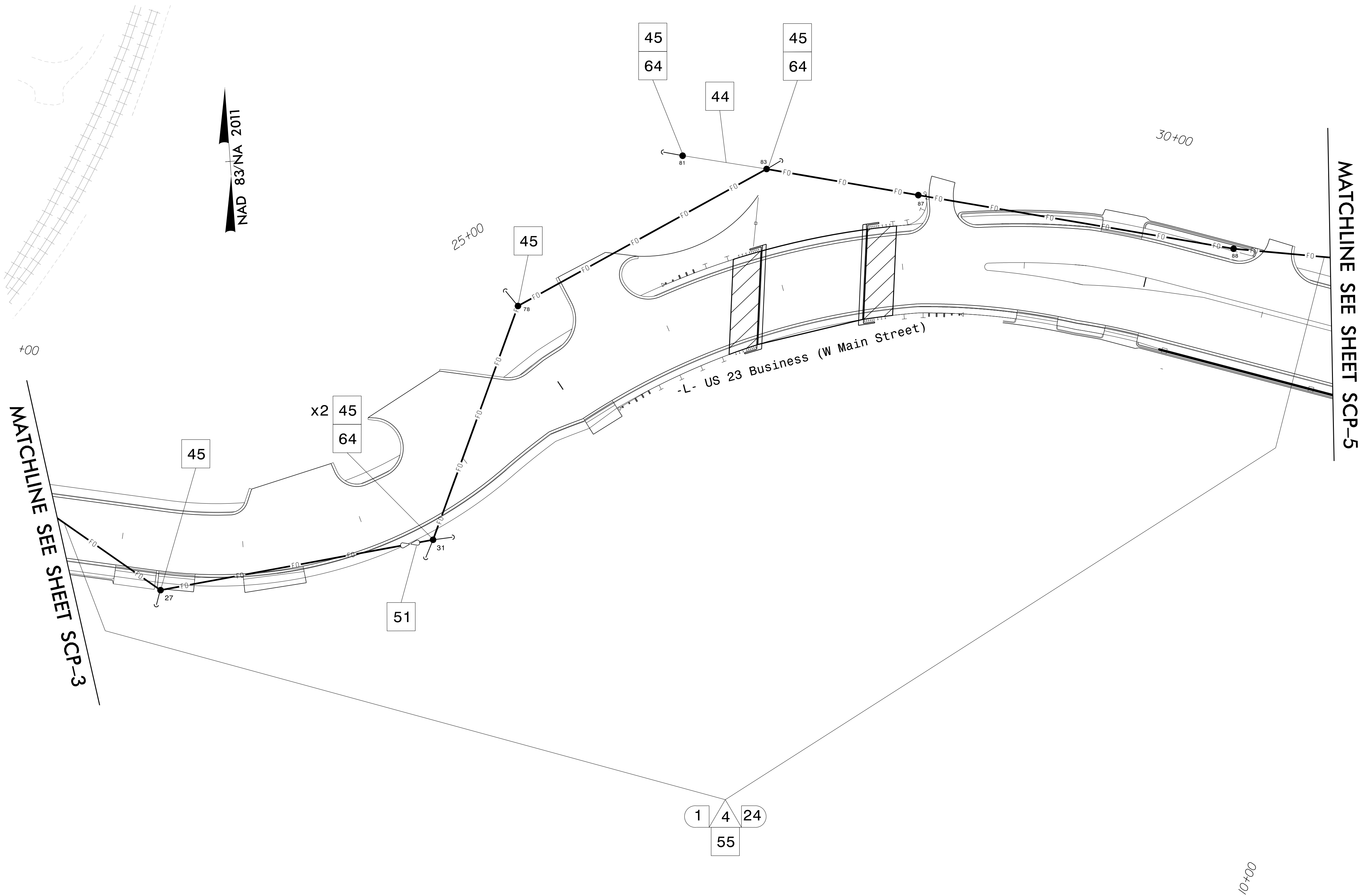
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 - ALTERNATE CONSTRUCTION METHODS MAY BE USED FOR INSALLING CONDUIT WITH ENGINEER'S APPROVAL. CONDUIT WILL BE PAID FOR UNDER INSTALLATION METHODS SHOWN ON THESE PLANS.

Plans Prepared By:

DRMP

DRMP, INC.
8210 UNIVERSITY EXECUTIVE PARK DR.
SUITE 200
CHARLOTTE, NC 28262
NC LICENSE NO. F-1524 (704) 549-4260

Prepared for the Offices of: SEAL STATE OF NORTH CAROLINA TRANSPORTATION DIVISION SIGNALS MANAGEMENT SECTION 750 N. Greenfield Pkwy, Garner, NC 27529	D14-14 NC 107 Cable Routing Plans		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	Division 14 Jackson County Sylva		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER BRITTANY N. GROOM	
	PLAN DATE: June 2025	REVIEWED BY: BN Groome	Signed by: <i>Brittany Groome</i> 8/26/2025	
	PREPARED BY: DJ White	REVIEWED BY: LW Moon	DATE	
REVISIONS		INIT.	DATE	



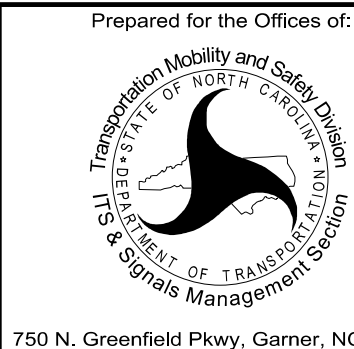
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Fernando.Vazquez AT CHA-FAZ01E2

Plans Prepared By:

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NC LICENSE NO. F-1524 (704) 549-4260



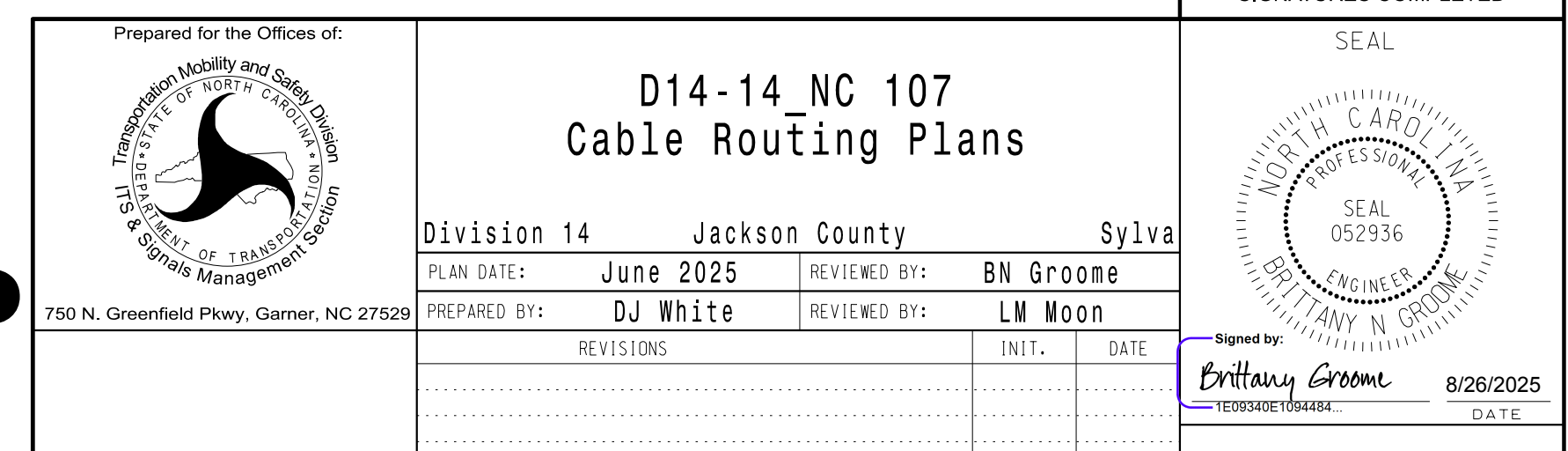
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PLAN DATE:	June 2025	REVIEWED BY:	BN Groome
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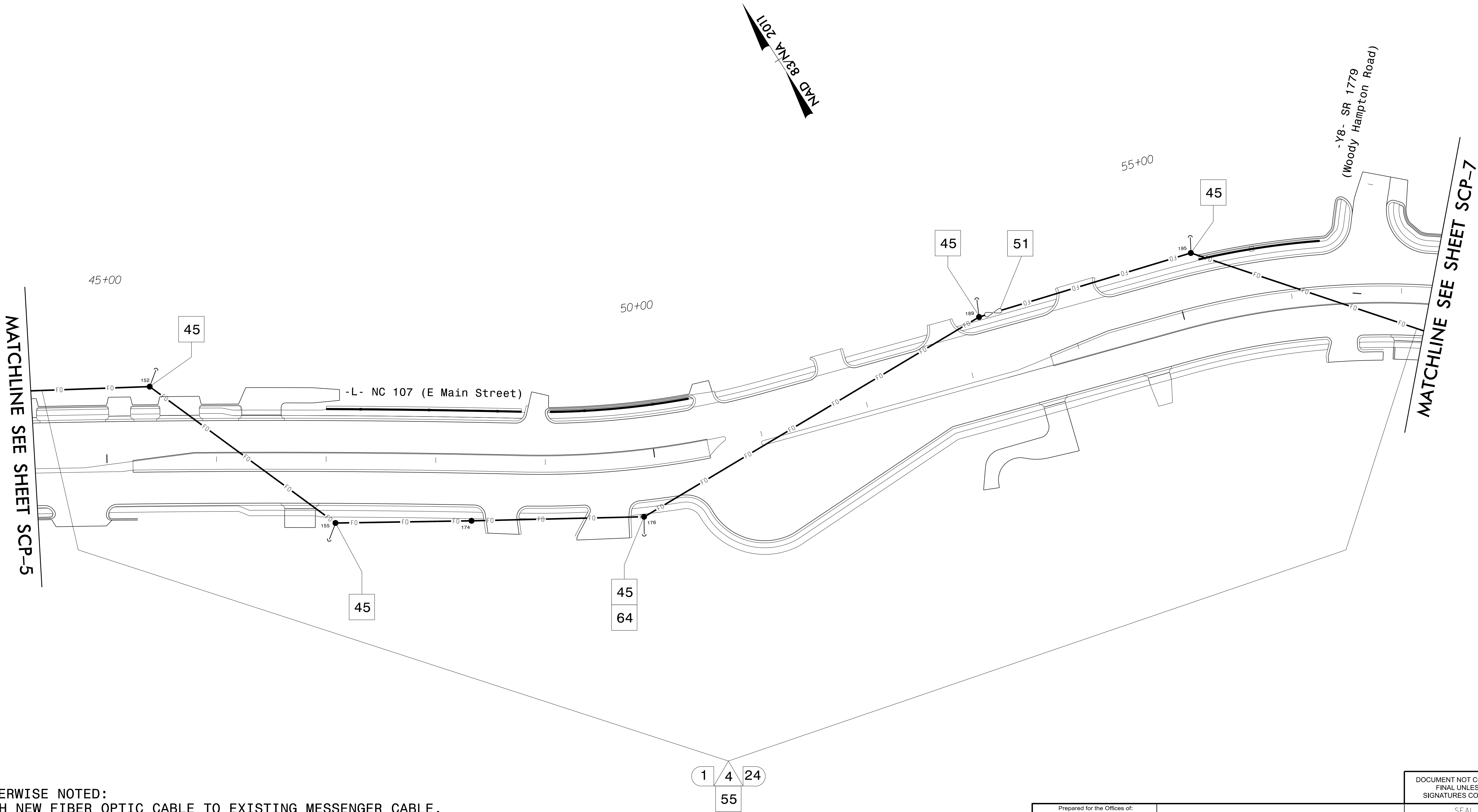
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SIGNATURES COMPLETED

SEAL

BRITTANY N. GROOM
ENGINEER
SEAL 052936

Signed by: **Brittany Groome** 8/26/2025
DATE





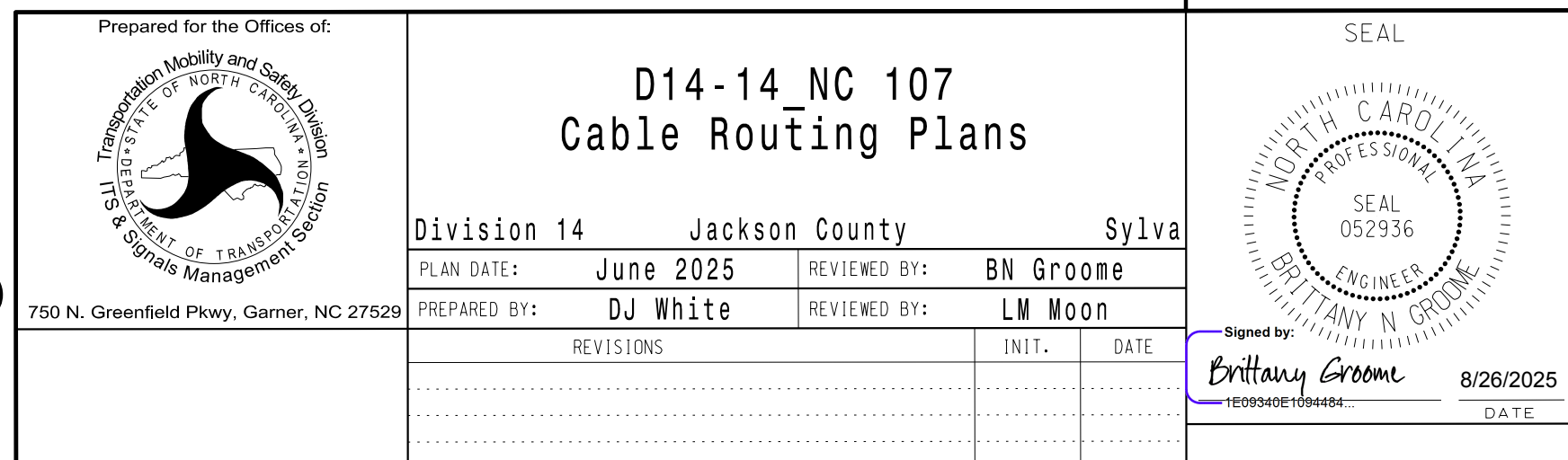
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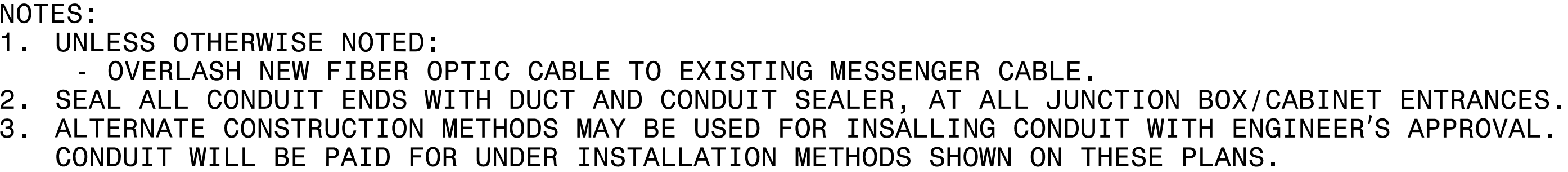
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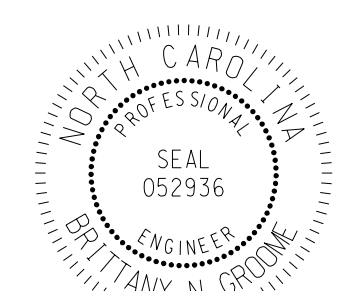
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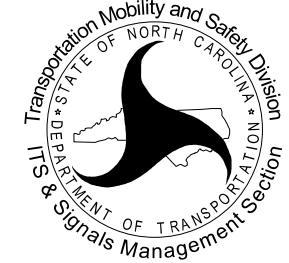
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Signed by: Brittany Groome 8/26/2025
 TE09340E1094484... DATE

Prepared for the Offices of:



D14-14_NC 107
Cable Routing Plans

Division 14 Jackson County Sylva

PLAN DATE:	June 2025	REVIEWED BY:	BN Groome
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PREPARED BY:	DJ White	REVIEWED BY:	LM Moon
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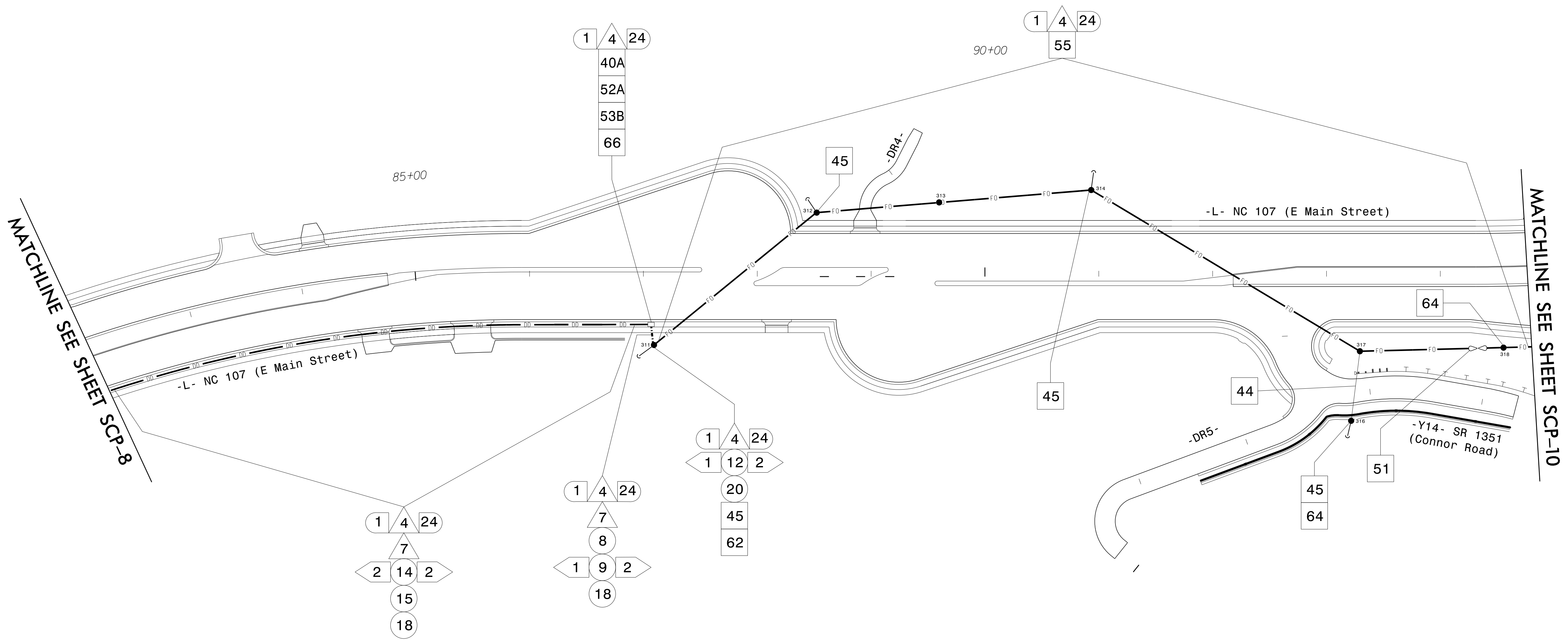
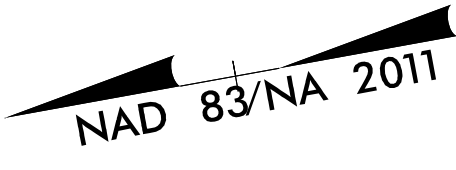
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Plans Prepared By:

DRMP, INC.
8210 UNIVERSITY EXECUTIVE PARK DR.
SUITE 220
CHARLOTTE, NC 28262
NC LICENSE NO. F-1524 (704) 549-4260



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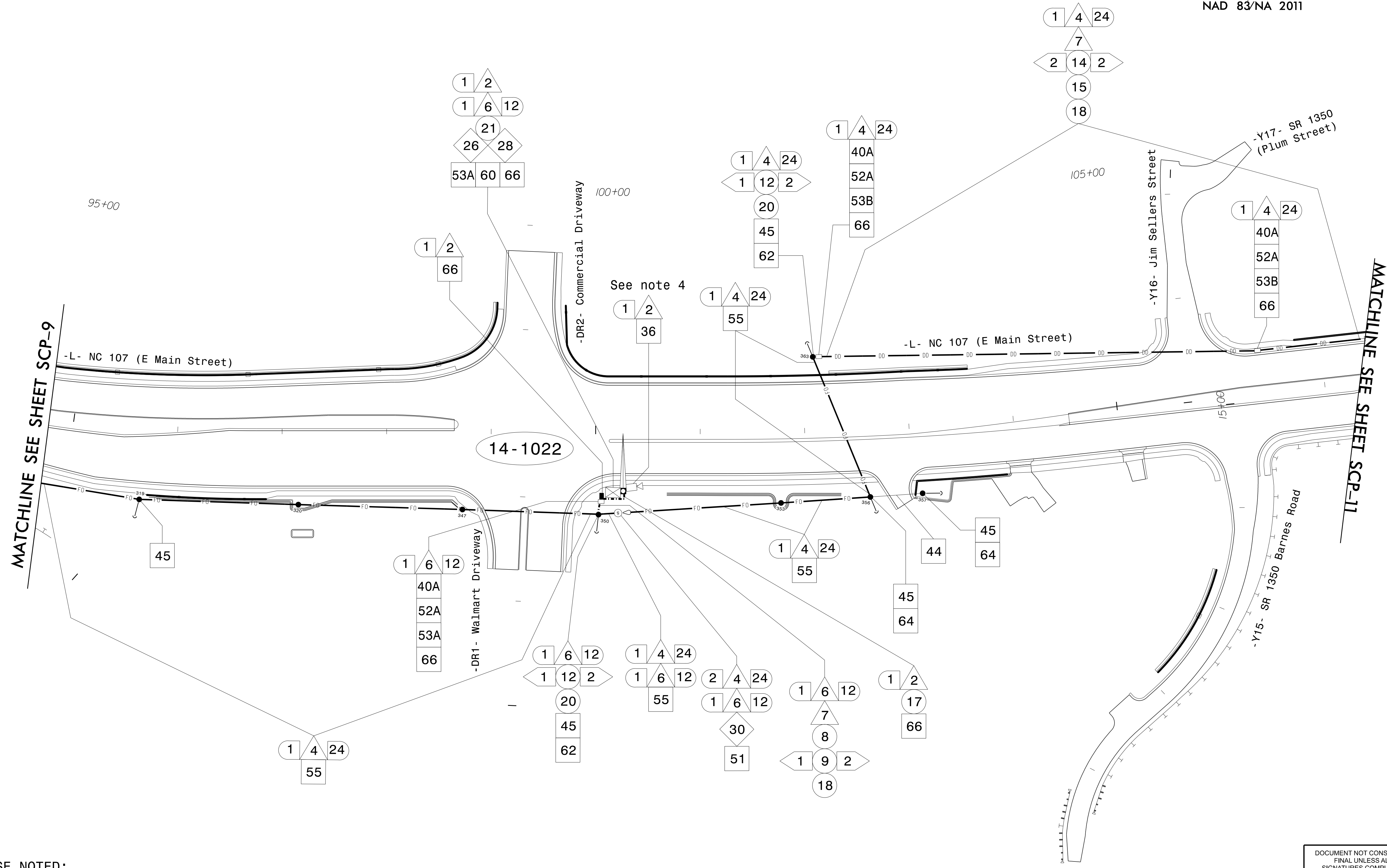
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Fernando Vazquez AT CHA-FAZ01EZ

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DRMP, INC.
8210 UNIVERSITY EXECUTIVE PARK DR.
SUITE 200
CHARLOTTE, NC 28262
NC LICENSE NO. F-1524 (704) 549-4260

	D14-14 NC 107 Cable Routing Plans	
	Division 14 Jackson County Sylva	
	PLAN DATE: June 2025	REVIEWED BY: BN Groome
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Signed by: <i>Brittany Groome</i>	DATE 8/26/2025



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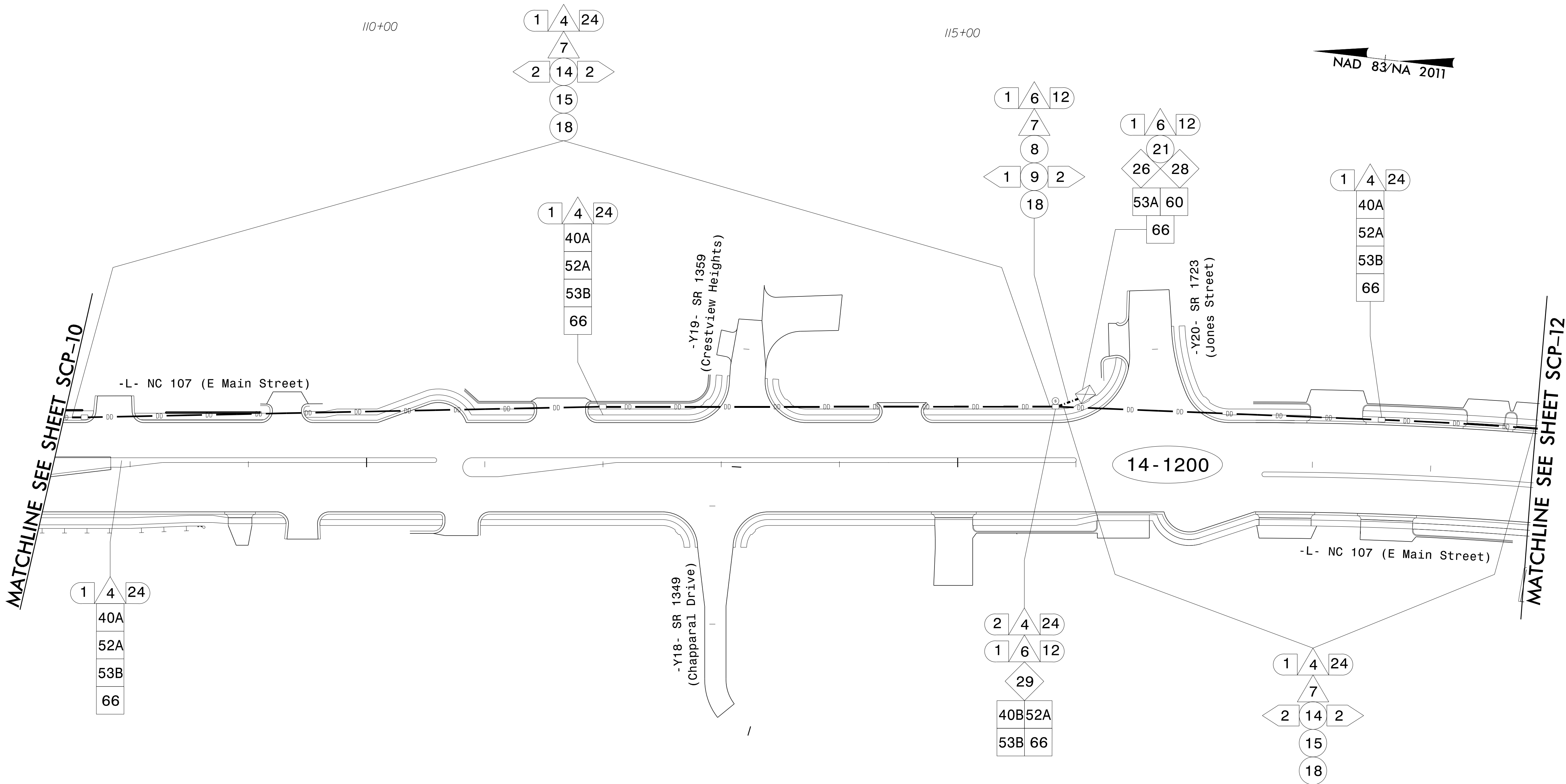
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Fernando Vazquez AT CHA-FAZ02UEZ



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Fernando Vazquez AT CHA-FAZ01EZ

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SUITE 200
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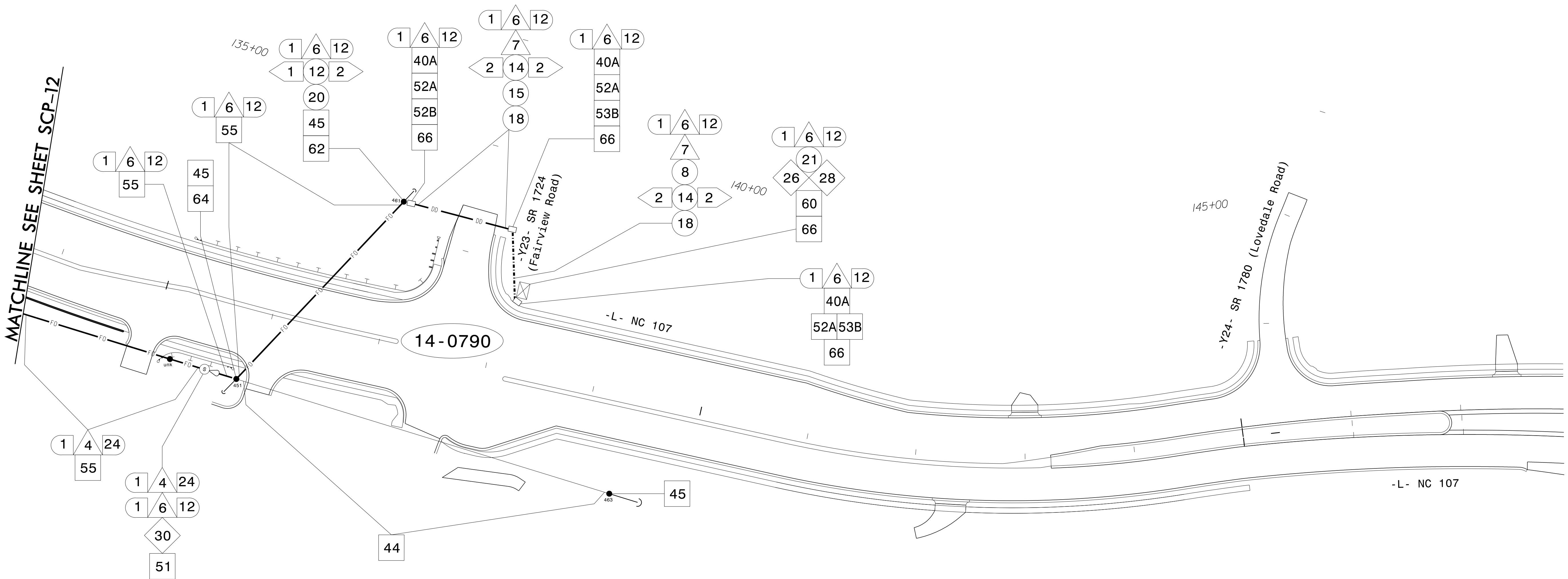
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DRMP

Prepared for the Offices of: 	D14-14 NC 107 Cable Routing Plans	SEAL 																																	
750 N. Greenfield Pkwy, Garner, NC 27529	<table style="width: 100%;"> <tr> <td style="text-align: left;">Division 14</td> <td style="text-align: center;">Jackson County</td> <td style="text-align: right;">Sylva</td> </tr> <tr> <td style="text-align: left;">PLAN DATE:</td> <td style="text-align: center;">June 2025</td> <td style="text-align: right;">REVIEWED BY: BN Groome</td> </tr> <tr> <td style="text-align: left;">PREPARED BY:</td> <td style="text-align: center;">DJ White</td> <td style="text-align: right;">REVIEWED BY: LM Moon</td> </tr> </table>	Division 14	Jackson County	Sylva	PLAN DATE:	June 2025	REVIEWED BY: BN Groome	PREPARED BY:	DJ White	REVIEWED BY: LM Moon	Signed by:  _____ 1E09340E106464 DATE: 8/26/2025																								
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Prepared for the Offices of:



The seal of the North Carolina Department of Transportation is circular. It features a stylized black and white graphic of a road or path curving through a landscape. The text "NORTH CAROLINA DEPARTMENT OF TRANSPORTATION" is written around the top half of the circle, and "ITS & Signals Management Section" is written around the bottom half.

750 N. Greenfield Pkwy, Garner, NC 27529

Division 14 Jackson County Sylva

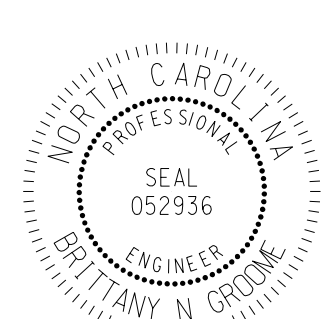
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9	PREPARED BY: DJ White	REVIEWED BY: LM Moon
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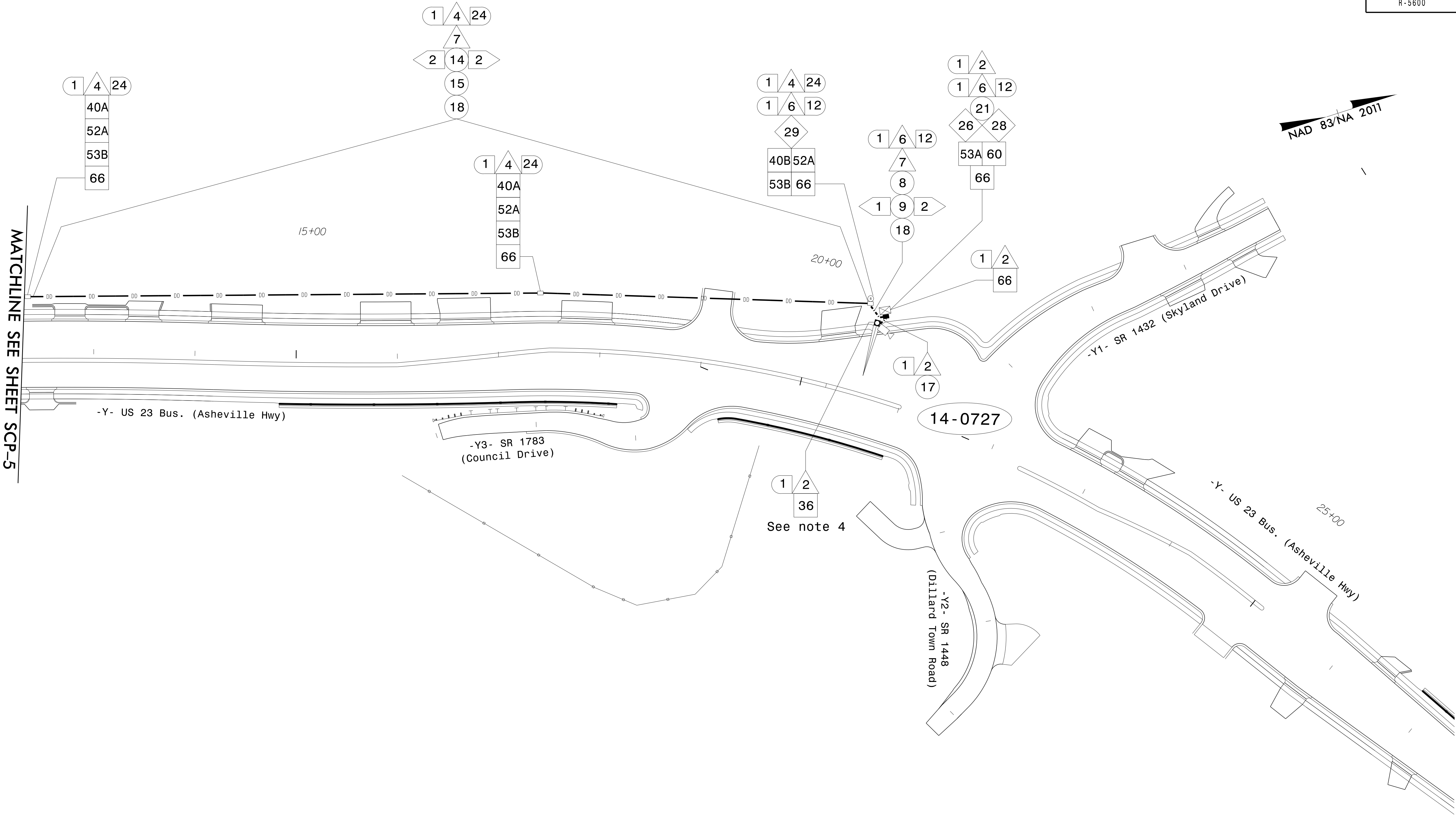
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Signed by: Brittany Groome 8/26/2025
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NOTES:

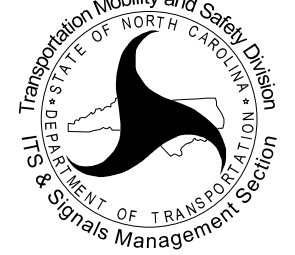
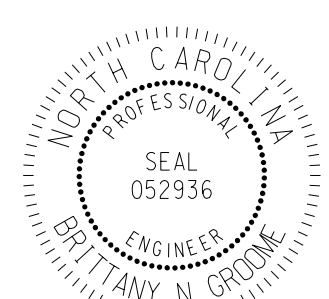
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Fernando.Vazquez AT CHA-FAZ01E2

Plans Prepared By:

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NEW UNDERGROUND SPLICE ENCLOSURE
ALONG
US 23 BUS. (W MAIN STREET)
BETWEEN MILL STREET AND SCOTT CREEK
(SEE SCP-03)



1. FOURTEEN (14) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 14 DEPUTY TRAFFIC ENGINEER AT (828)331-5253 TO ARRANGE FOR DIVISION 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 DEPUTY 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.

- 1) SPLICE LOCATION
- 2) DATE
- 3) COMPANY NAME
- 4) NAME OF INDIVIDUAL PERFORMING THE SPLICE

Color Code
TIA/EIA 598-B

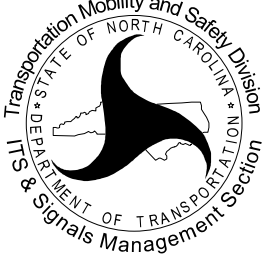
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OR	(2) Orange	BK	(8) Black
GR	(3) Green	YL	(9) Yellow
BR	(4) Brown	VI	(10) Violet
SL	(5) Slate	RS	(11) Rose
WH	(6) White	AQ	(12) Aqua

X = Fusion Splice Individual Fiber
C = Cap and Seal

EXPRESS	= Express entire buffer tube/fibers through without cutting
BUFFER SPLICE	= Splice all fibers in buffer tube color to color



Plans Prepared By:



750 N. Greenfield Pkwy, Garner, NC 27529

D14-14_NC 107
Splice Details

Division 14 Jackson County Sylva

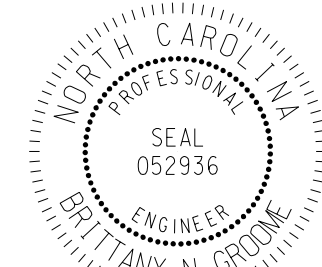
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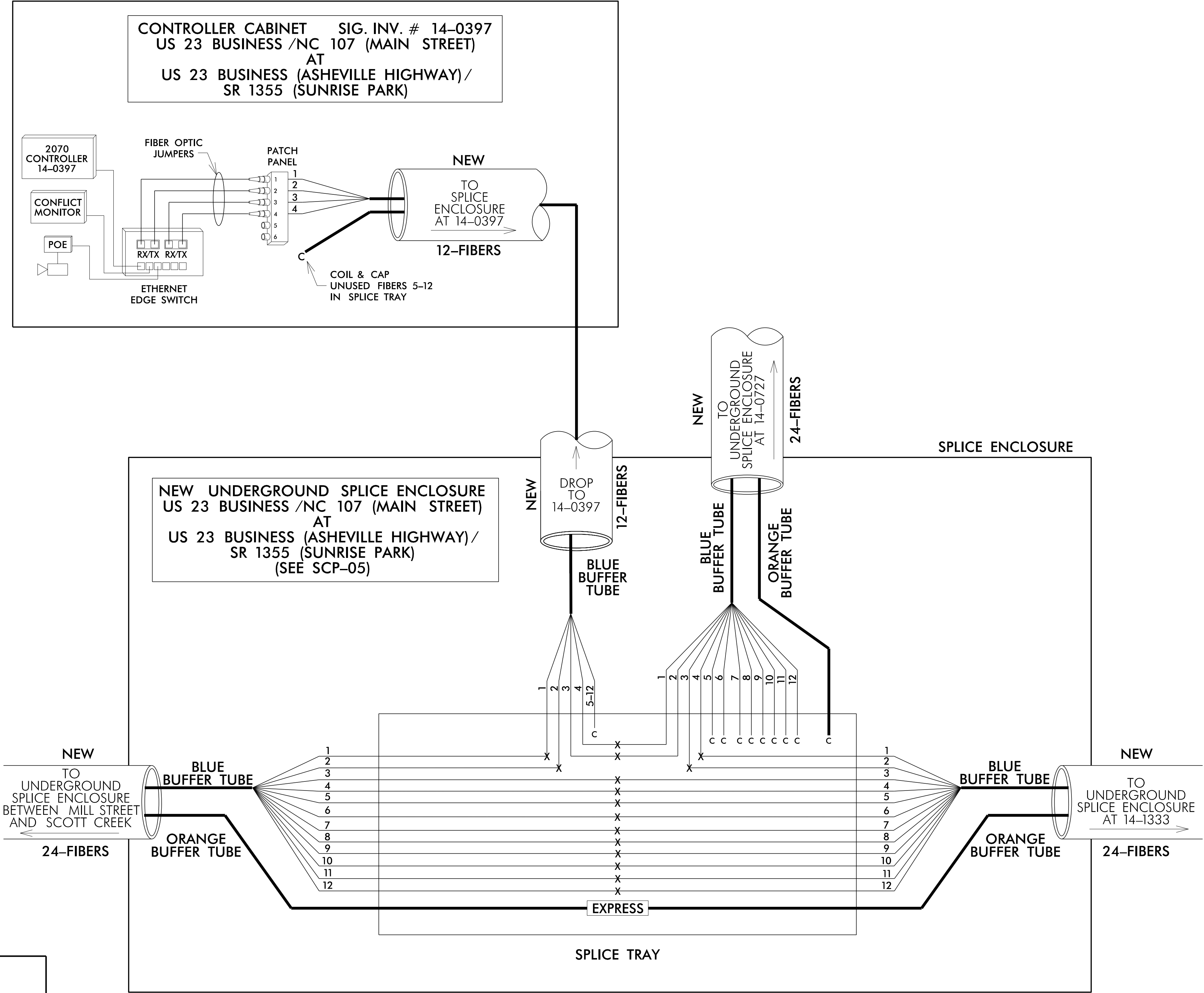
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SF AI



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Brittany Groome 8/26/2025
TE09340E1094484... DATE

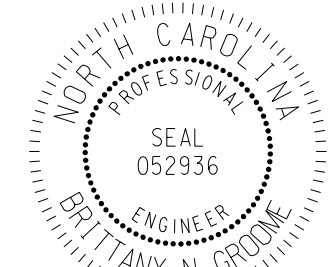


NOTES

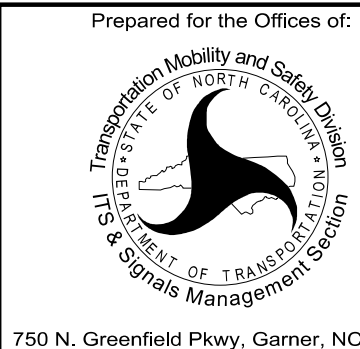
- FOURTEEN (14) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 14 DEPUTY TRAFFIC ENGINEER AT (828)331-5253 TO ARRANGE FOR DIVISION TO PRAGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE DEPUTY 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.
- ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ENSURING THE PROPER TERMINATIONS.
- INCLUDE ON THE COVER OF EACH SPlice TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPlice ENCLOSURE"
 - SPlice LOCATION
 - DATE
 - COMPANY NAME
 - NAME OF INDIVIDUAL PERFORMING THE SPlice
- UNUSED FIBERS LEFT COILED AND STORED IN SPlice TRAY.
- UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPlice ENCLOSURE.

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL



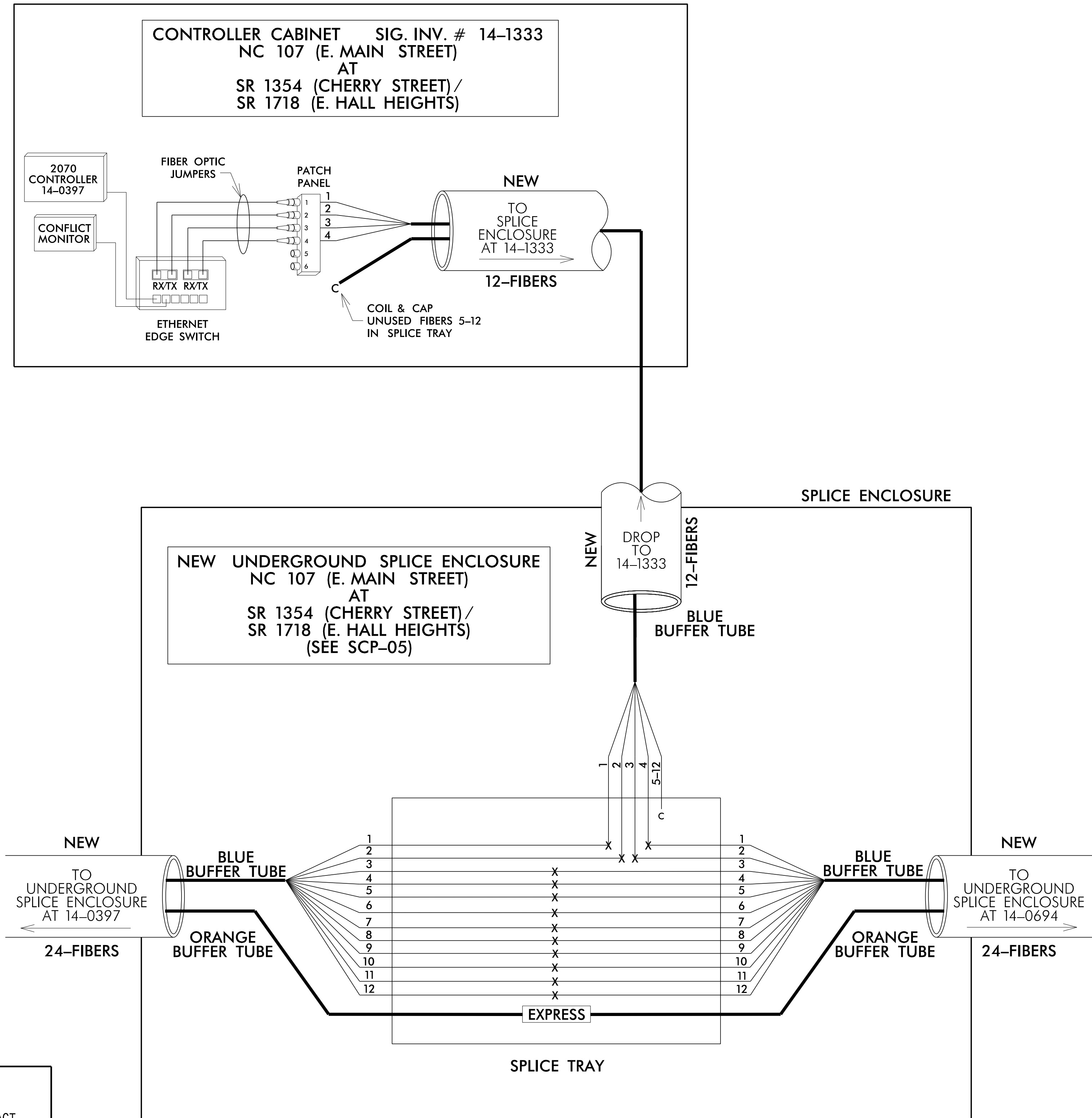
Signed by: Brittany Groome 8/26/2025
DATE



Plans Prepared By:
DRMP
DRMP, INC.
8210 UNIVERSITY EXECUTIVE PARK DR.
SUITE 200
CHARLOTTE, NC 28262
NC LICENSE NO. F-1524 (704) 549-4260

D14-14 NC 107
Splice Details

Division 14	Jackson County	Sylva
PLAN DATE: June 2025	REVIEWED BY: ZM Esposito	
PREPARED BY: DJ White	REVIEWED BY: BN Groome	
REVISIONS	INIT.	DATE

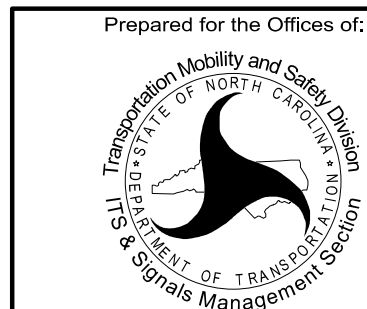


NOTES

1. FOURTEEN (14) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 14 DEPUTY TRAFFIC ENGINEER AT (828)331-5253 TO ARRANGE FOR DIVISION 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 DEPUTY 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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 - 1) SPLICE LOCATION
 - 2) DATE
 - 3) COMPANY NAME
 - 4) NAME OF INDIVIDUAL PERFORMING THE SPLICE
4. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
5. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE ENCLOSURE.

LEGEND

		Color Code			
		TIA/EIA	598-B		
BL	(1) Blue	RD	(7) Red	X	= Fusion Splice Individual Fiber
OR	(2) Orange	BK	(8) Black	C	= Cap and Seal
GR	(3) Green	YL	(9) Yellow		
BR	(4) Brown	VI	(10) Violet	EXPRESS	= Express entire buffer tube/fibers through without cutting
SL	(5) Slate	RS	(11) Rose		
WH	(6) White	AQ	(12) Aqua	BUFFER SPICE	= Splice all fibers in buffer tube color to color

Plans Prepared By:

D14-14_NC 107
Splice Details

Division 14 Jackson County Sylva

PLAN DATE: June 2025	REVIEWED BY: ZM Esposito
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9	PREPARED BY: DJ White	REVIEWED BY: BN Groome
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REVISIONS	INIT.	DATE
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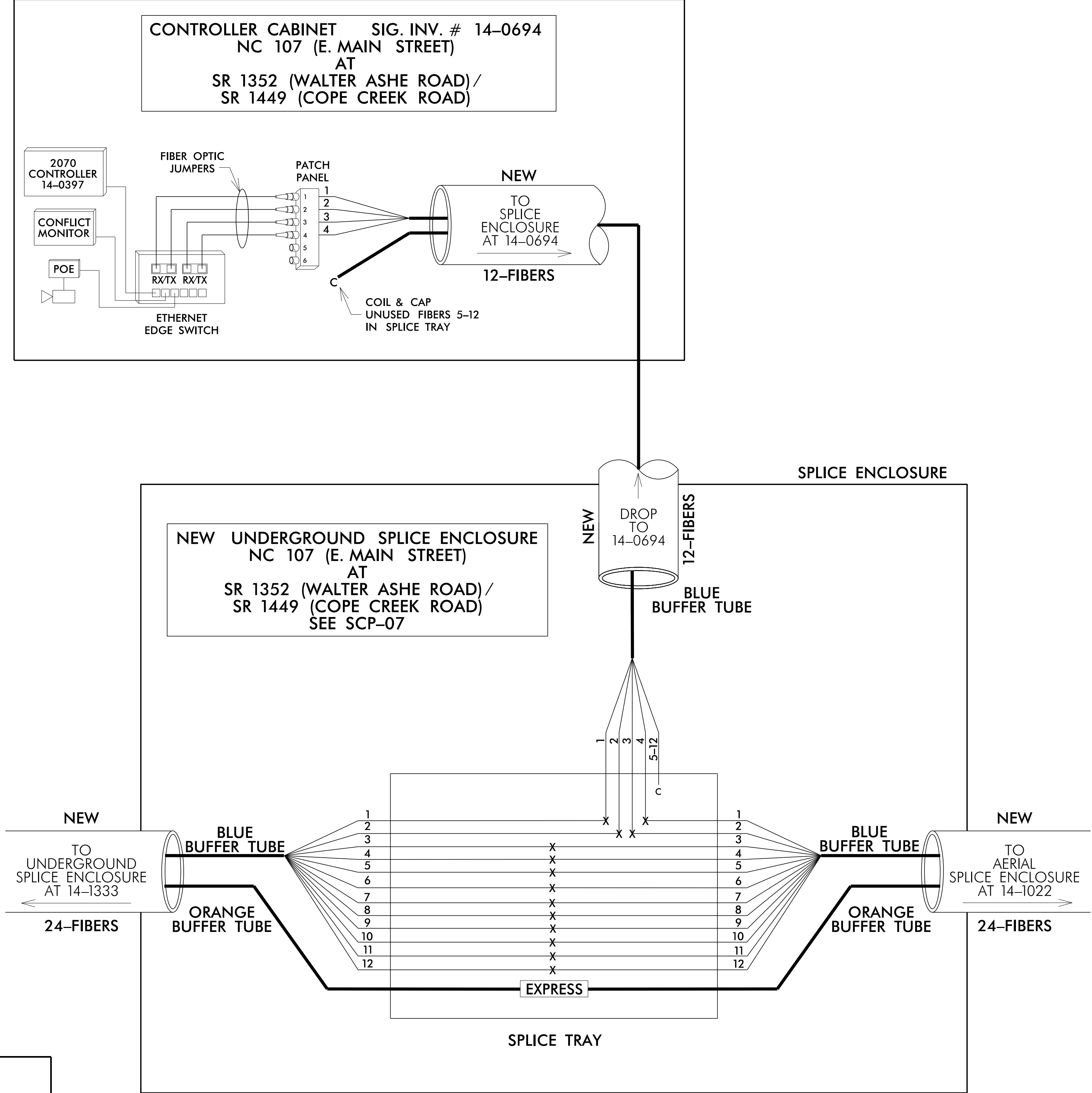
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DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL



Signed by: Brittany Groome 8/26/2025
 1E09340E1094484... DATE



NOTES

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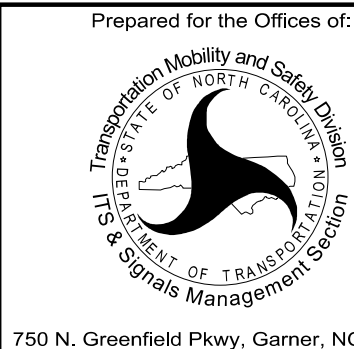
Color Code		TIA/EIA 598-B	
BL	(1) Blue	RD	(7) Red
OR	(2) Orange	BK	(8) Black
GR	(3) Green	YL	(9) Yellow
BR	(4) Brown	VI	(10) Violet
SL	(5) Slate	RS	(11) Rose
WH	(6) White	AQ	(12) Aqua

X	= Fusion Splice Individual Fiber
C	= Cap and Seal
EXPRESS	= Express entire buffer tube/fibers through without cutting
BUFFER SPLICE	= Splice all fibers in buffer tube color to color

Plans Prepared By:

DRMP

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8210 UNIVERSITY EXECUTIVE PARK DR.
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D14-14 NC 107 Splice Details			
Division 14	Jackson County	Sylva	
PLAN DATE:	June 2025	REVIEWED BY:	ZM Esposito
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REVISIONS		INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

SEAL 052936

ENGINEER

Signed by: *Brittany N Groome* 8/26/2025

DATE



- ## LEGEND

X = Fusion Splice Individual Fiber
C = Cap and Seal
S = Express entire buffer tube/fibers through without cutting
LICE = Splice all fibers in buffer tube color to color



Prepared for the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27520	D14-14 NC 107 Splice Details	SEAL 
Division 14 Jackson County Sylva		
PLAN DATE: June 2025	REVIEWED BY: ZM Esposito	
PREPARED BY: DJ White	REVIEWED BY: BN Groome	
REVISIONS	INIT.	DATE