

- 1 INSTALL COAX CABLE
- 2 INSTALL ETHERNET CABLE
- 3 EXISTING ETHERNET (OR COAX) CABLE
- 4 INSTALL SMFO CABLE
- 5 EXISTING SMFO CABLE
- 6 INSTALL FIBER OPTIC DROP CABLE
- 7 INSTALL TRACER WIRE
- 8 TRENCH
- 9 INSTALL PVC CONDUIT
- 10 INSTALL RIGID, GALVANIZED STEEL CONDUIT
- 11 INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD
- 12 INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL
- 13 INSTALL OUTER-DUCT POLYETHYLENE CONDUIT
- 14 INSTALL POLYETHYLENE CONDUIT
- 15 DIRECTIONAL DRILL CONDUIT
- 16 BORE AND JACK CONDUIT
- 17 INSTALL CABLE(S) IN EXISTING CONDUIT
- 18 INSTALL CABLE(S) IN NEW CONDUIT
- 19 INSTALL CABLE(S) IN EXISTING RISER
- 20 INSTALL CABLE(S) IN NEW RISER
- 21 INSTALL CABLE(S) IN EXISTING CONDUIT STUB-OUTS
- 22 INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 23 INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)
- 24 INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET
- 25 INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET
- 26 INSTALL NEW ETHERNET EDGE SWITCH
- 27 INSTALL NEW FIBER OPTIC TRANSCEIVER
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPLICE ENCLOSURE
- 30 INSTALL AERIAL SPLICE ENCLOSURE
- 31 MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE
- 32 INSTALL POLE MOUNTED SPLICE CABINET
- 33 INSTALL BASE MOUNTED SPLICE CABINET

- 34 INSTALL CABINET FOUNDATION
- 35 INSTALL CCTV CAMERA POLE MOUNTED CABINET
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL JUNCTION BOX
- 40A INSTALL OVERSIZED JUNCTION BOX
- 40B INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")
- 41 REMOVE EXISTING JUNCTION BOX
- 42 INSTALL WOOD POLE
- 43 REMOVE EXISTING WOOD POLE
- 44 INSTALL AERIAL GUY ASSEMBLY
- 45 INSTALL STANDARD GUY ASSEMBLY
- 46 INSTALL SIDEWALK GUY ASSEMBLY
- 47 INSTALL MESSENGER CABLE
- 48A REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE
- 48B REMOVE EXISTING COMMUNICATIONS CABLE
- 49 BACK PULL EXISTING COMMUNICATIONS CABLE
- 50 INSTALL CELL MODEM AND ANTENNA
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52A INSTALL DELINEATOR MARKER
- 52B INSTALL JUNCTION BOX MARKER
- 53A STORE 20 FEET OF COMMUNICATIONS CABLE
- 53B STORE 50 FEET OF EACH COMMUNICATIONS CABLE
- 54 LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE
- 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 56 LASH CABLE(S) TO NEW MESSENGER CABLE
- 57 MODIFY EXISTING ELECTRICAL SERVICE
- 58 CCTV ELECTRICAL SERVICE
- 59 INSTALL NEW EQUIPMENT CABINET DISCONNECT
- 60 BOND TRACER WIRE TO EQUIPMENT GROUND BUS
- 61 DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS
- 62 BOND RISER AND MESSENGER CABLE TO POLE GROUND
- 63 BOND RISER TO POLE GROUND
- 64 BOND MESSENGER CABLE TO POLE GROUND
- 65 INSTALL HEAT SHRINK TUBING RETROFIT KIT
- 66 INSTALL MOLDABLE DUCT SEAL
- 67 SLACK SPAN

**LEGEND**

	NEW FIBER OPTIC COMMUNICATIONS CABLE
	EXISTING COMMUNICATIONS CABLE
	EXISTING COMMUNICATIONS CABLE TO BE REMOVED
	NEW AERIAL GUY ASSEMBLY
	NEW CONDUIT
	EXISTING CONDUIT
	NEW DIRECTIONAL DRILLED CONDUIT

NEW		EXISTING
	OVERSIZED JUNCTION BOX	
	WOOD POLE	
	AERIAL SPLICE ENCLOSURE	
	UNDERGROUND SPLICE ENCLOSURE	
	METAL POLE	
	CCTV ASSEMBLY	
	STANDARD GUY ASSEMBLY	
	SIDEWALK GUY ASSEMBLY	
	CABLE STORAGE RACKS (SNOW SHOES)	
	SIGNAL/EQUIPMENT CABINET	
	SPLICE CABINET	
	FLAT PANEL ANTENNA (SINGLE)	
	YAGI ANTENNA (DOUBLE) FOR REPEATER OPERATION	
	YAGI ANTENNA (SINGLE)	
	OMNI ANTENNA	
	SIGNAL POLE	
	SIGNAL INVENTORY NUMBER	

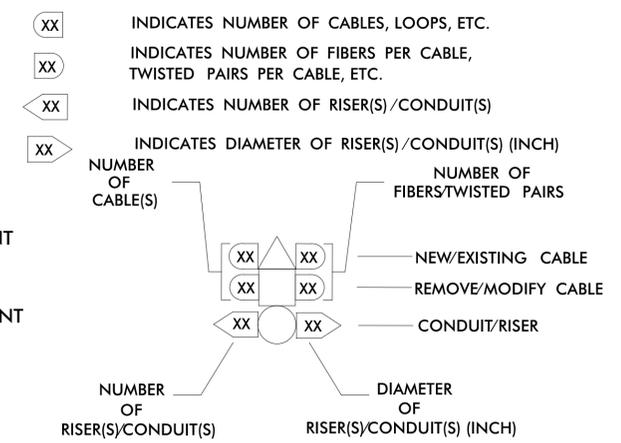
**ATTACHMENT POINT:**

**XX"/SS** DISTANCE ABOVE (IN)/ATTACHMENT POINT  
**YYY** REFERENCE POINT

**YYY** REFERENCE POINT  
**XX"/SS** DISTANCE BELOW (IN)/ATTACHMENT POINT

**"SS" REFERENCE LOCATION**  
**FS** = FRONT SIDE OF POLE  
**BS** = BACK SIDE OF POLE

**CONSTRUCTION NOTE SYMBOLOGY KEY**

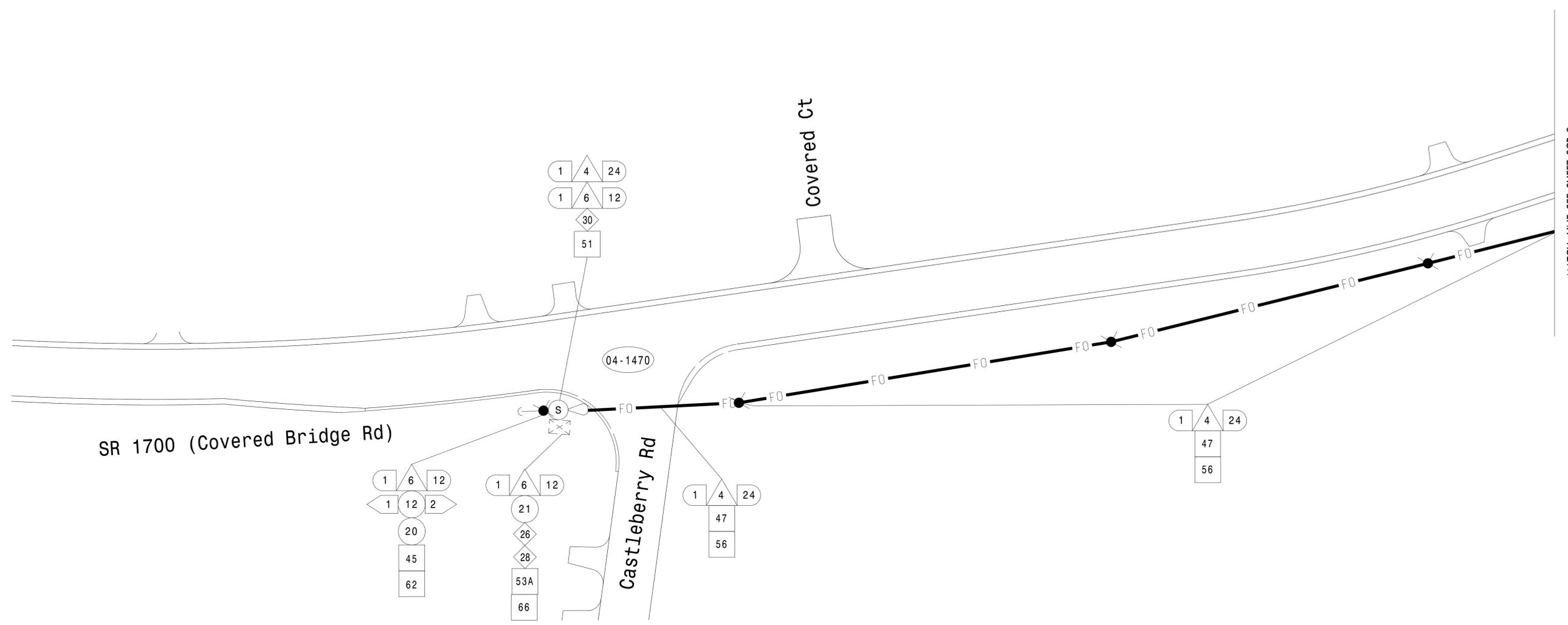


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 sct11.luka

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED



Prepared for the Offices of:		<b>Construction Notes</b> Division 4 Johnston County Clayton PLAN DATE: February 2025 REVIEWED BY: J.M. Justine PREPARED BY: S.R. Chiluka REVIEWED BY: M.L. Stygles		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 047250 SRIATHA R. CHILUKA
REVISIONS	INIT.	DATE	DocuSigned by:  SRIATHA R. CHILUKA DATE: 7/30/2025	

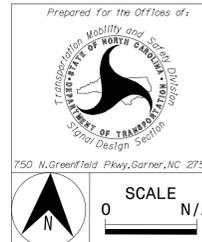


**NOTES**

1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT DIVISION 4 TRAFFIC ENGINEER, AT (252) 640-6502 TO ARRANGE FOR THE 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 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL ALL SIGNALS ARE COMMUNICATING WITH THE CENTRAL SYSTEM.
2. ATTACH NCDOT CABLE 12" BELOW PHONE, FRONT SIDE OF POLE, UNLESS OTHERWISE NOTED.

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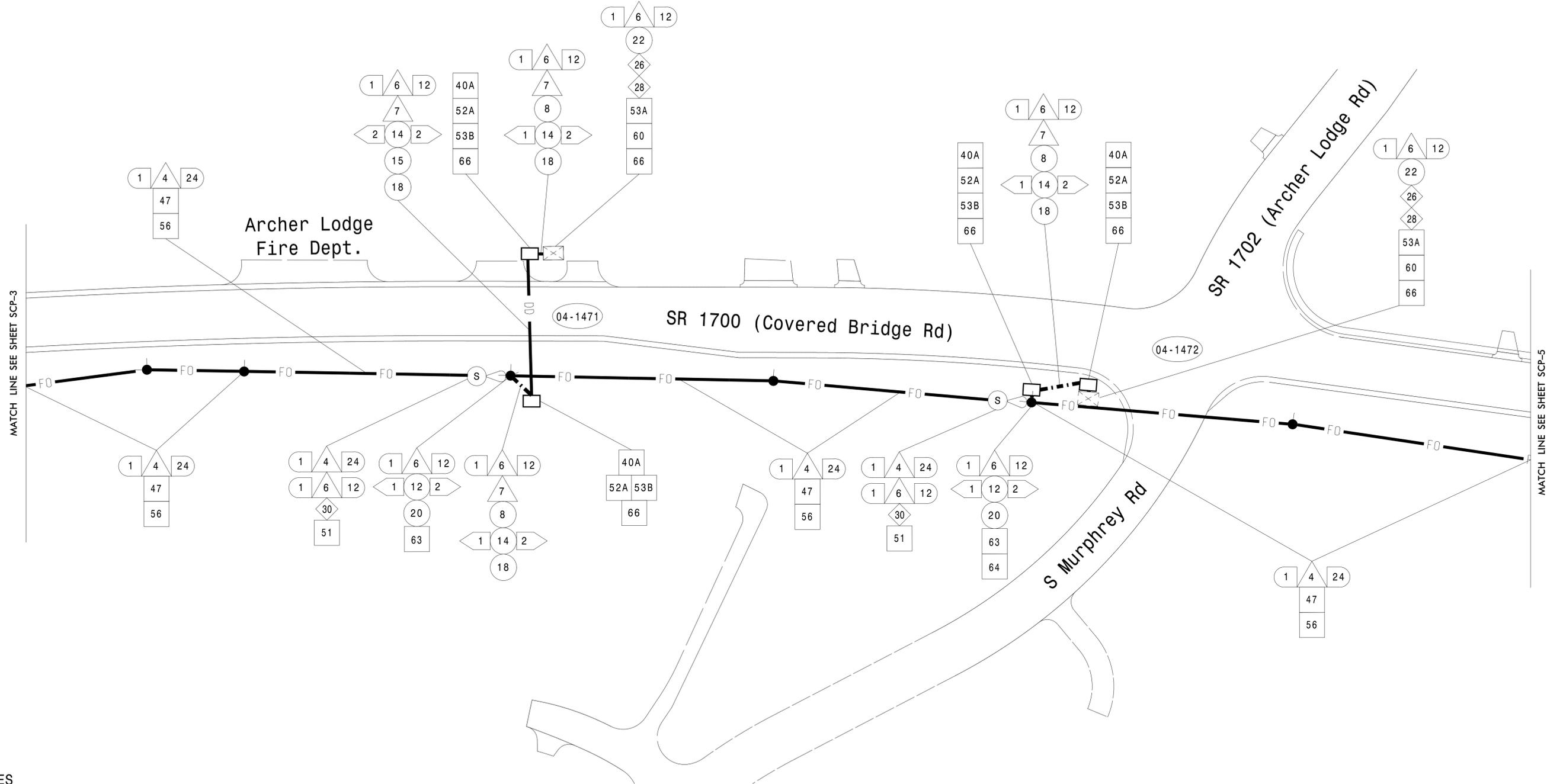


<b>D04-34 Archer Lodge Communications Cable and Conduit Routing Plans</b>	
Division 4	Johnston County Clayton
PLAN DATE: February 2025	REVIEWED BY: J.M. Justine
PREPARED BY: S.R. Chiluka	REVIEWED BY: M.L. Stygles
REVISIONS	INIT. DATE



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S. R. Chiluka  
02054C992A794EE  
SIGNATURE DATE  
7/30/2025



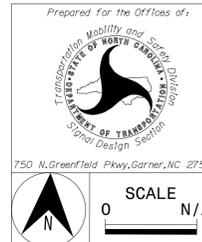


**NOTES**

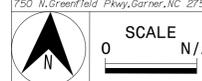
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2. ATTACH NCDOT CABLE 12" BELOW PHONE, FRONT SIDE OF POLE, UNLESS OTHERWISE NOTED.

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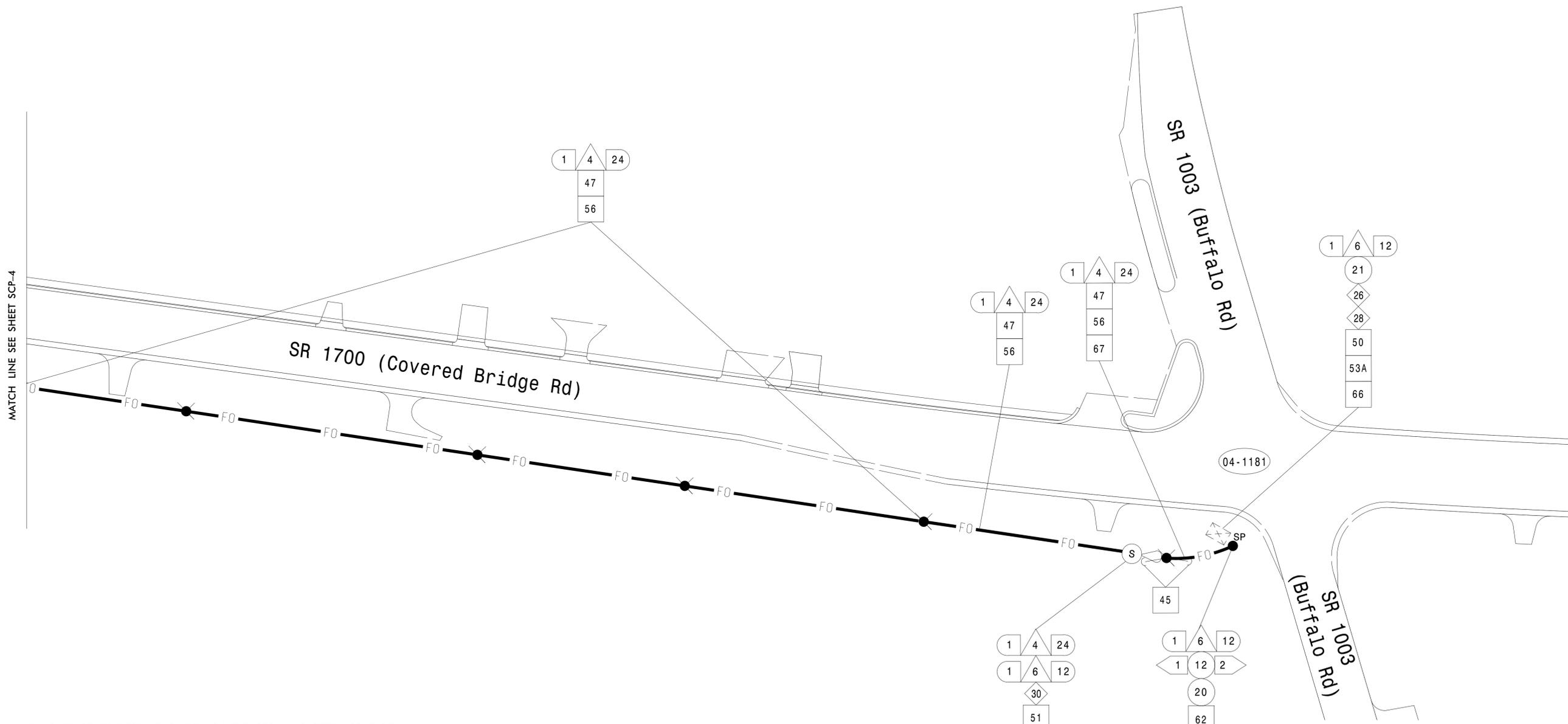
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UNLESS ALL SIGNATURES COMPLETED



<b>D04-34 Archer Lodge Communications Cable and Conduit Routing Plans</b>	
Division 4	Johnston County Clayton
PLAN DATE: February 2025	REVIEWED BY: J.M. Justine
PREPARED BY: S.R. Chiluka	REVIEWED BY: M.L. Stygles
REVISIONS	INIT. DATE



DocuSign  
 S.R. Chiluka  
 7/30/2025

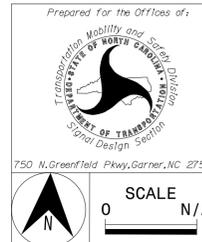


**NOTES**

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2. ATTACH NCDOT CABLE 12" BELOW PHONE, FRONT SIDE OF POLE, UNLESS OTHERWISE NOTED.
3. ATTACH NCDOT CABLE 40" BELOW POWER, FRONT SIDE OF POLE, UNLESS OTHERWISE NOTED.
4. CELLULAR MODEM TO TBE SUPPLIED BY THE DEPARTMENT. CONTACT THE DIVISION 4 TRAFFIC ENGINEER AT (252) 640-6502 TO REQUEST THE CELL MODEM. ALLOW 8 WEEKS LEAD TIME BEFORE ANTICIPATED DEPLAOYMENT.

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UNLESS ALL SIGNATURES COMPLETED**

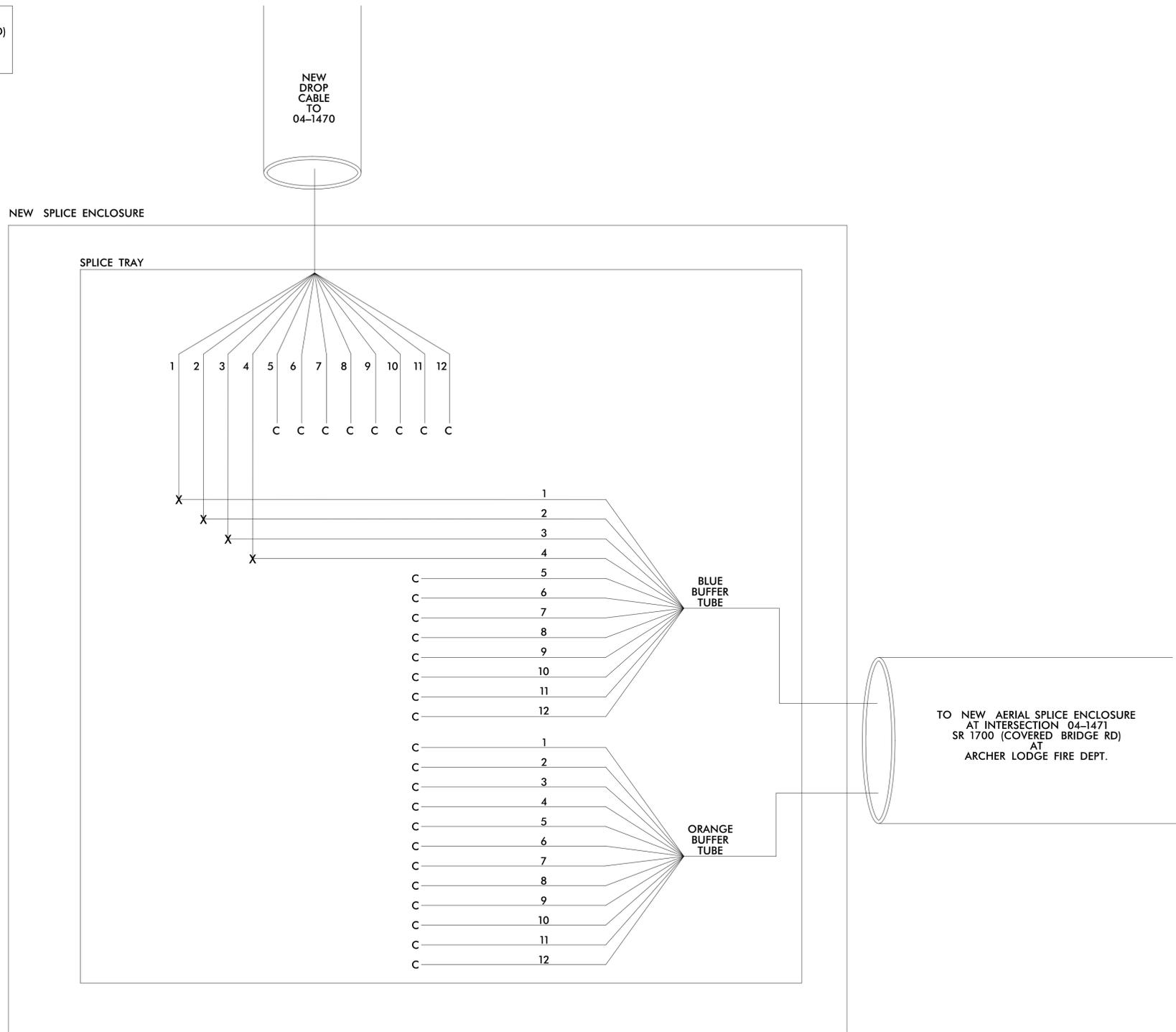


<b>D04-34 Archer Lodge Communications Cable and Conduit Routing Plans</b>	
Division 4	Johnston County Clayton
PLAN DATE: February 2025	REVIEWED BY: J.M. Justine
PREPARED BY: S.R. Chiluka	REVIEWED BY: M.L. Stygles
REVISIONS	INIT. DATE



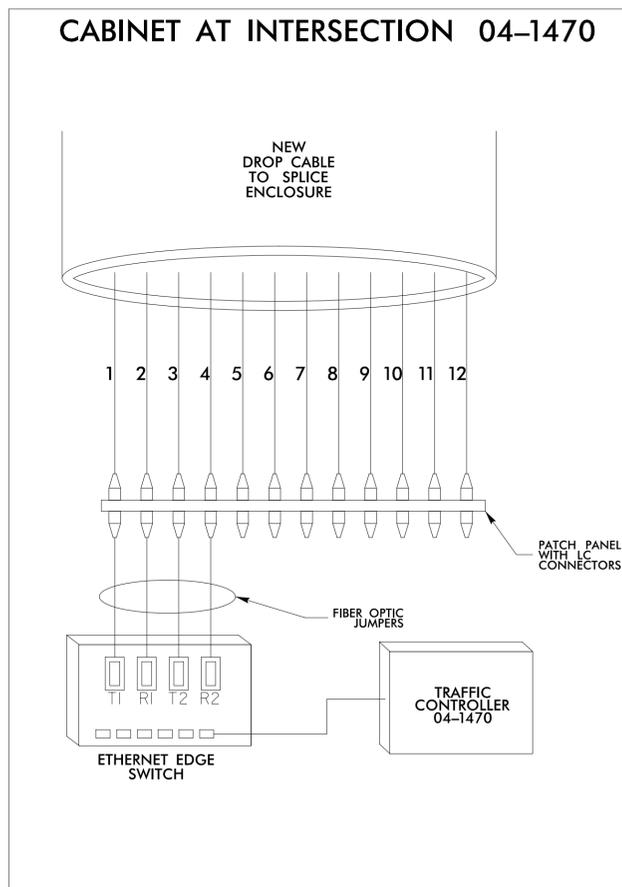
7/30/2025

04-1470  
SR 1700 (COVERED BRIDGE RD)  
AT  
CASTLEBERRY RD



### LEGEND

COLOR CODE TIA/EIA 598-A		X = NEW FUSION SPLICE INDIVIDUAL FIBER
(1) BLUE	(7) RED	C = CAP, COIL, AND SEAL
(2) ORANGE	(8) BLACK	[EXPRESS BUFFER TUBE] = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING
(3) GREEN	(9) YELLOW	[EXPRESS] = EXPRESS INDIVIDUAL FIBER THROUGH WITHOUT CUTTING
(4) BROWN	(10) VIOLET	[BUFFER SPLICE] = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR
(5) SLATE	(11) ROSE	
(6) WHITE	(12) AQUA	



**NOTES**

- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT DIVISION 4 TRAFFIC ENGINEER, AT (252) 640-6502 TO ARRANGE FOR THE 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 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL ALL SIGNALS ARE COMMUNICATING WITH THE CENTRAL SYSTEM.
- CONTRACTOR SHALL PROVIDE AS-BUILT PLANS TO THE ENGINEER FOR FINAL SPLICE ARRANGEMENT.
- UNUSED/UNTERMINATED FIBER OPTIC STRANDS SHALL BE LEFT COILED AND STORED IN SPLICE TRAY.
- ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ ENSURING PROPER TERMINATION.
- INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING; REFER TO SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
  - SPLICE LOCATION
  - DATE
  - COMPANY NAME
  - NAME OF INDIVIDUAL PERFORMING THE SPLICING
- PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPHY SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

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Prepared for the Offices of:

**Fiber Optic Cable Splice Detail**

Division 4 Johnston County Clayton

PLAN DATE: February 2025 REVIEWED BY: J.M. Justine

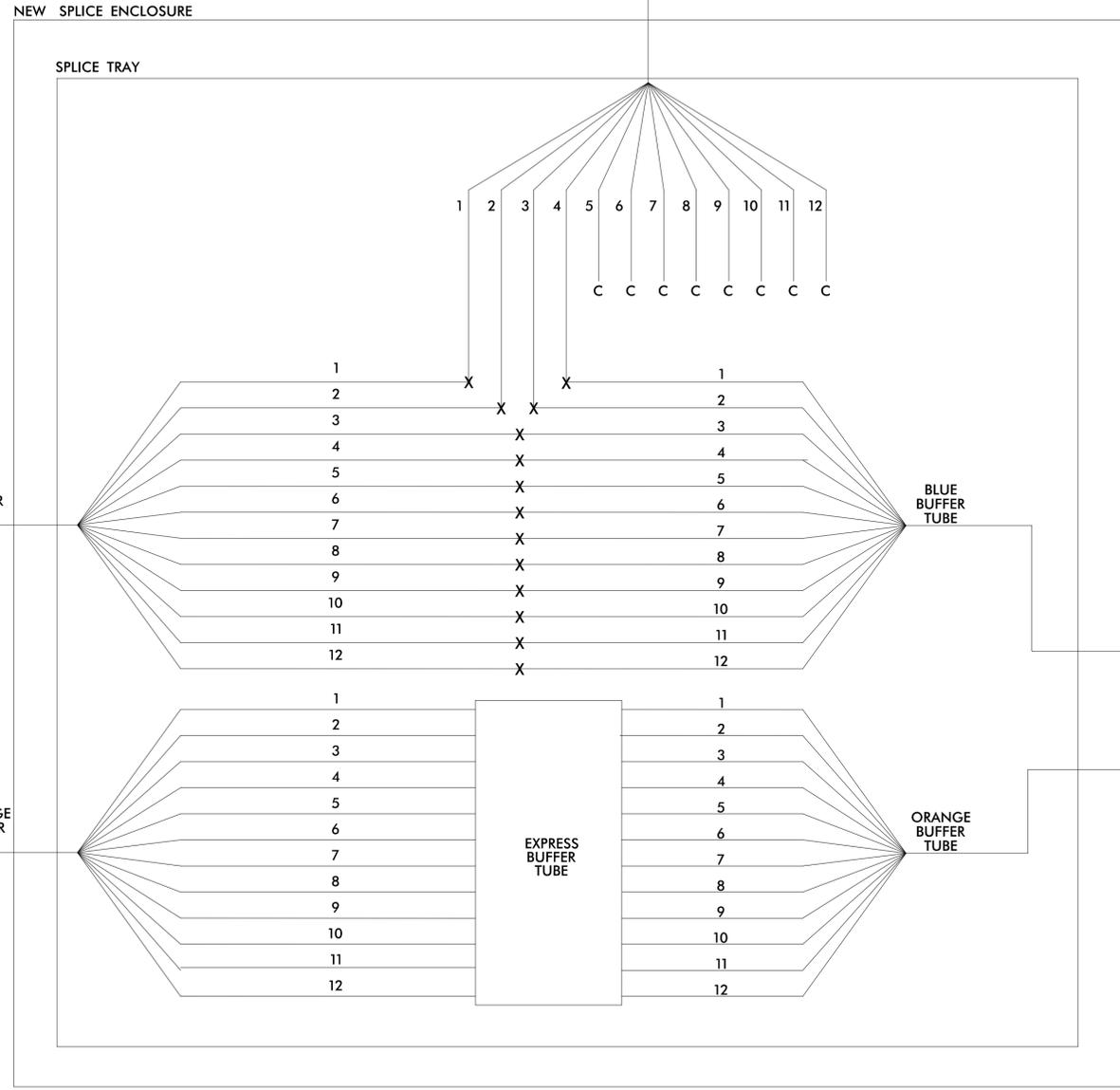
PREPARED BY: S.R. Chiluka REVIEWED BY: M.L. Stygles

REVISIONS	INIT.	DATE

DocuSigned by:  
S.R. Chiluka  
40364C892A7344E  
7/30/2025

SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 047250  
S. R. CHILUKA

04-1471  
SR 1700 (COVERED BRIDGE RD)  
AT  
ARCHER LODGE FIRE DEPT.



### LEGEND

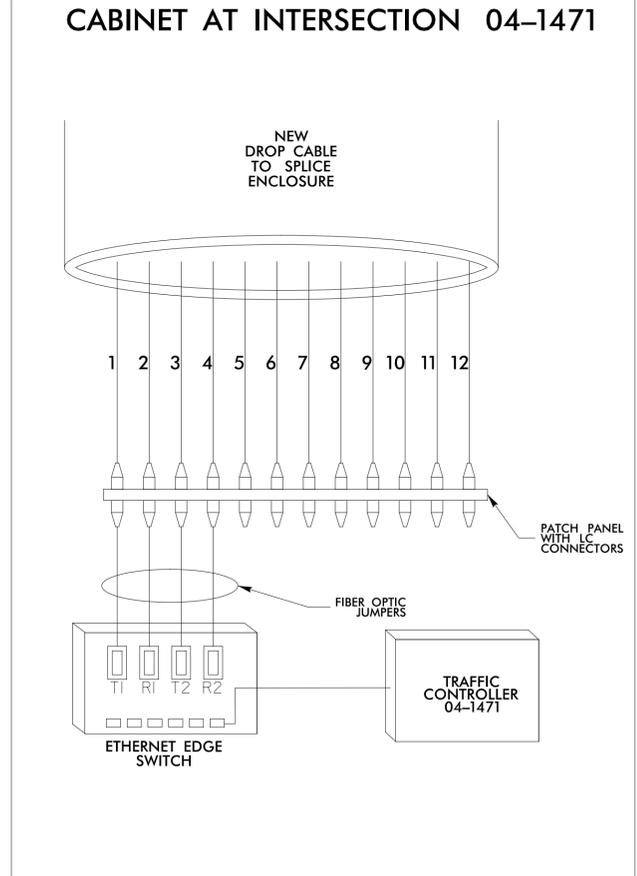
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**EXPRESS BUFFER TUBE** = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING  
**EXPRESS** = EXPRESS INDIVIDUAL FIBER THROUGH WITHOUT CUTTING  
**BUFFER SPLICE** = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR

TO NEW AERIAL SPLICE ENCLOSURE AT INTERSECTION 04-1470 AT CASTLEBERRY RD

TO NEW AERIAL SPLICE ENCLOSURE AT INTERSECTION 04-1472 AT S MURPHREY RD



**NOTES**

- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT DIVISION 4 TRAFFIC ENGINEER, AT (252) 640-6502 TO ARRANGE FOR THE 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 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL ALL SIGNALS ARE COMMUNICATING WITH THE CENTRAL SYSTEM.
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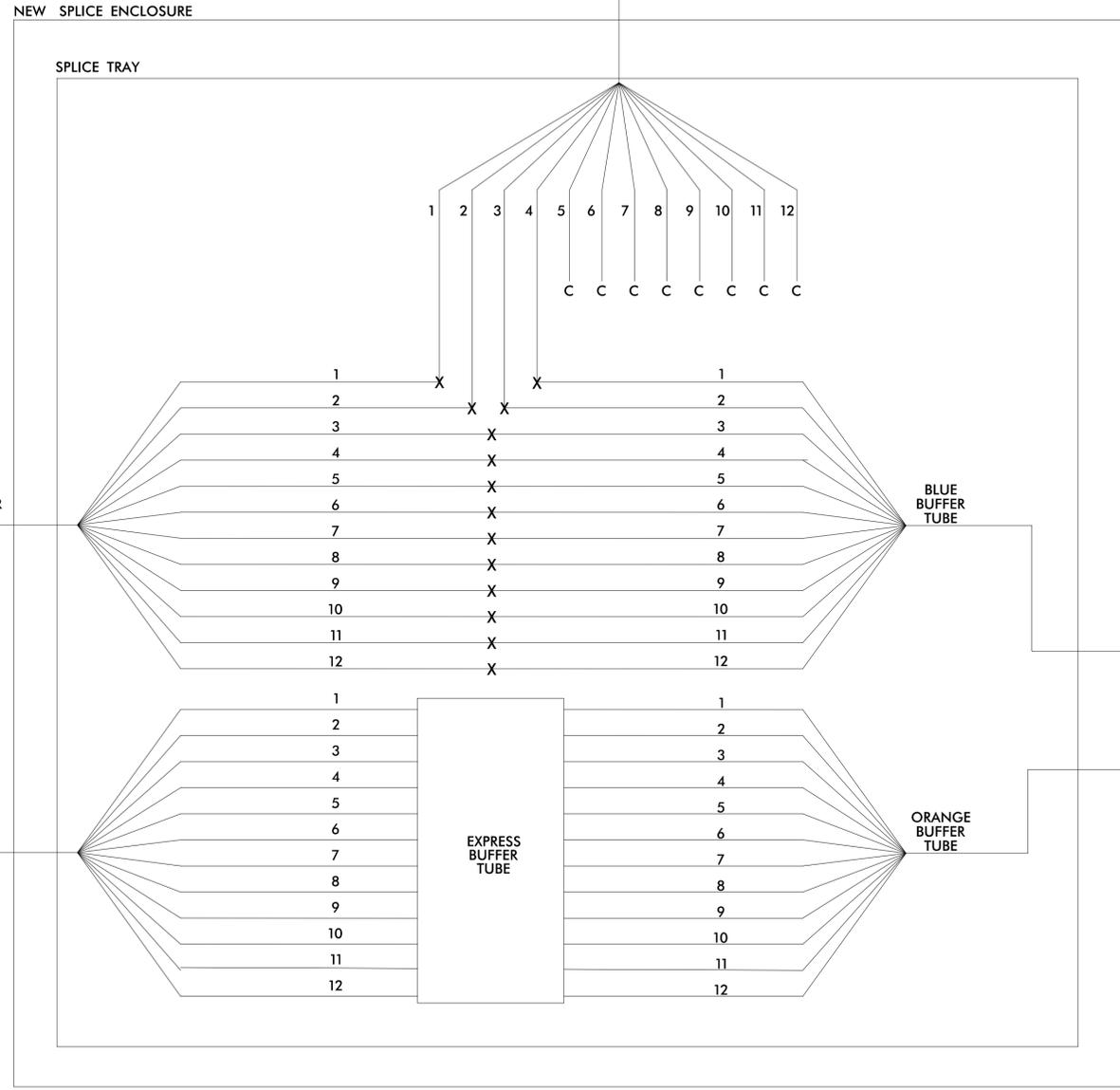
Fiber Optic Cable Splice Detail			
Division 4	Johnston County	Clayton	
PLAN DATE:	February 2025	REVIEWED BY:	J.M. Justine
PREPARED BY:	S.R. Chiluka	REVIEWED BY:	M.L. Stygles
REVISIONS	INIT.	DATE	

SEAL

DocuSigned by:  
S.R. Chiluka  
026AC92A784E  
7/30/2025

04-1472  
SR 1700 (COVERED BRIDGE RD)  
AT  
S MURPHREY RD

NEW  
DROP  
CABLE  
TO  
04-1472



### LEGEND

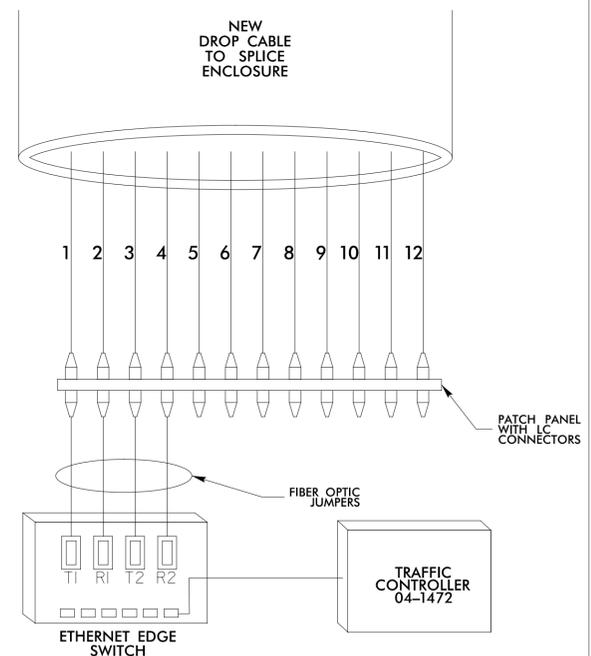
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TO NEW  
AERIAL  
SPLICE ENCLOSURE  
AT INTERSECTION  
04-1471  
SR 1700 (COVERED BRIDGE RD)  
AT  
ARCHER LODGE FIRE DEPT.

TO NEW  
AERIAL  
SPLICE ENCLOSURE  
AT INTERSECTION  
04-1181  
SR 1700 (COVERED BRIDGE RD)  
AT  
SR 1003 (BUFFALO RD)

### CABINET AT INTERSECTION 04-1472



### NOTES

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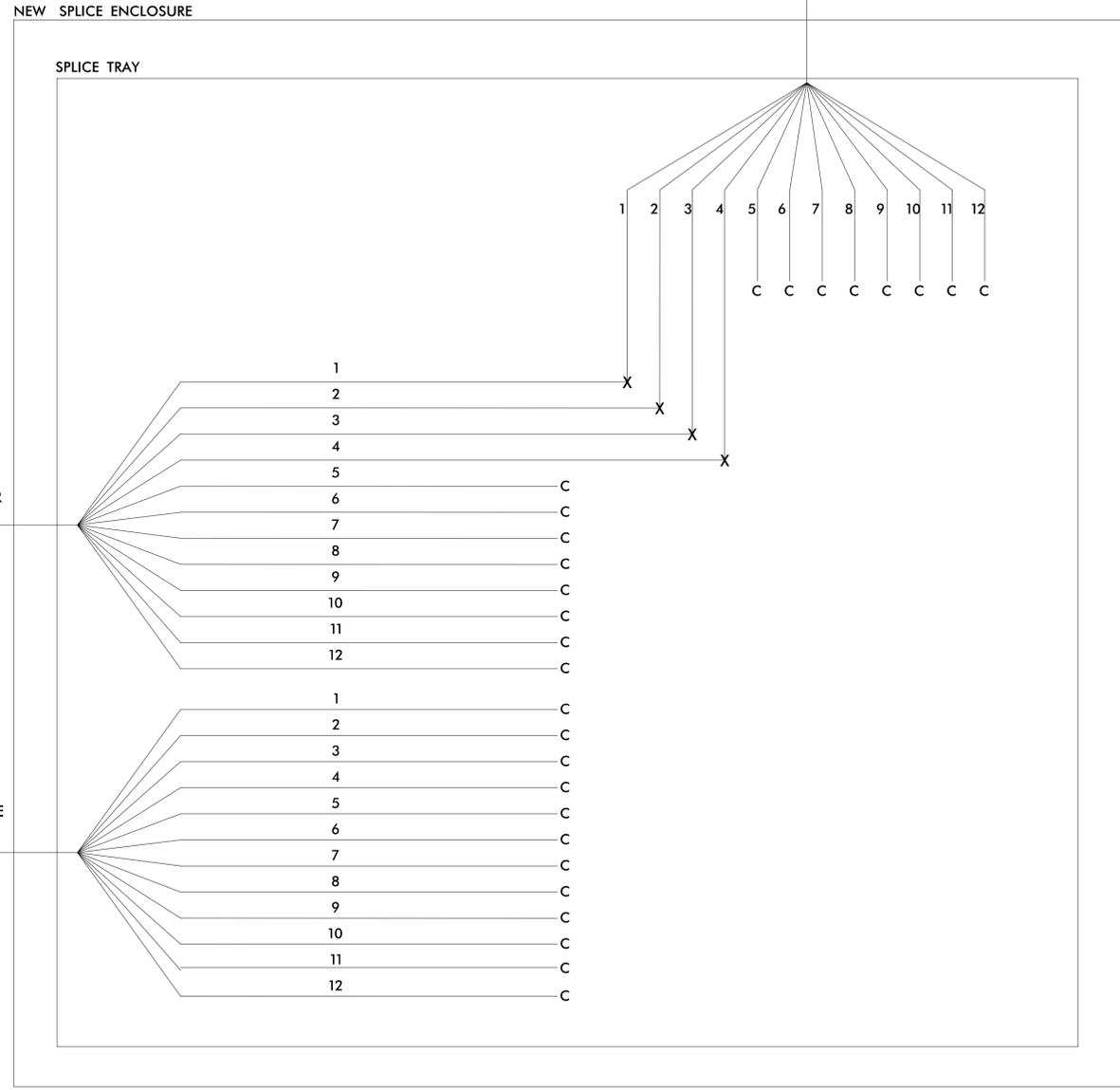
Fiber Optic Cable Splice Detail	
Division 4	Johnston County Clayton
PLAN DATE: February 2025	REVIEWED BY: J.M. Justine
PREPARED BY: S.R. Chiluka	REVIEWED BY: M.L. Stygles
REVISIONS	INIT. DATE

SEAL

SEAL  
047250  
S.R. CHILUKA  
ENGINEER  
NORTH CAROLINA

DocuSigned by:  
S.R. Chiluka  
07054C892A784E  
7/30/2025  
SIGNATURE DATE

04-1181  
SR 1700 (COVERED BRIDGE RD)  
AT SR 1003  
(BUFFALO RD)



### LEGEND

COLOR CODE TIA/EIA 598-A	
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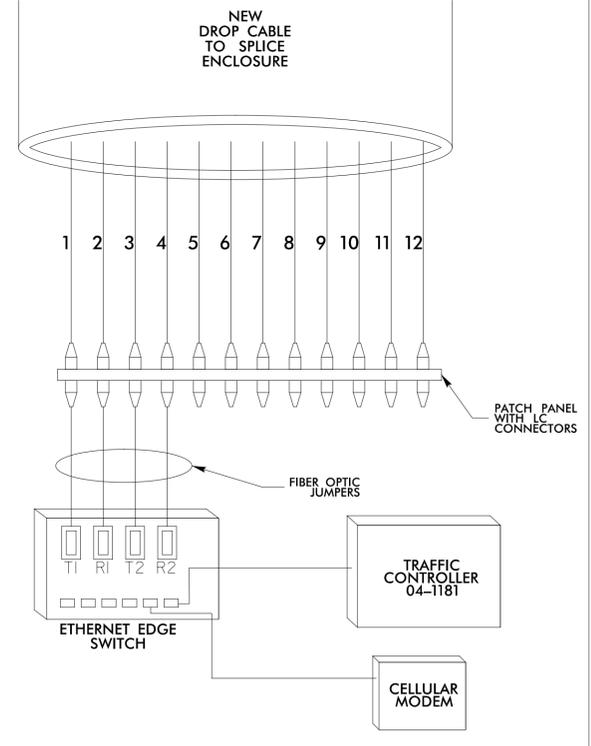
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TO NEW AERIAL SPLICE ENCLOSURE AT INTERSECTION 04-1472 SR 1700 (COVERED BRIDGE RD) AT S MURPHREY RD

BLUE BUFFER TUBE

ORANGE BUFFER TUBE

### CABINET AT INTERSECTION 04-1181



### NOTES

- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT DIVISION 4 TRAFFIC ENGINEER, AT (252) 640-6502 TO ARRANGE FOR THE 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 TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL ALL SIGNALS ARE COMMUNICATING WITH THE CENTRAL SYSTEM.
- CONTRACTOR SHALL PROVIDE AS-BUILT PLANS TO THE ENGINEER FOR FINAL SPLICE ARRANGEMENT.
- UNUSED/UNTERMINATED FIBER OPTIC STRANDS SHALL BE LEFT COILED AND STORED IN SPLICE TRAY.
- ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ ENSURING PROPER TERMINATION.
- INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFER TO SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
  - SPLICE LOCATION
  - DATE
  - COMPANY NAME
  - NAME OF INDIVIDUAL PERFORMING THE SPLICING
- PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPHY SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

10/17/2024 9:19:39 AM \*\*\*vrbgdn:\*\*\*pcj:\*\*\*a:61:ghn:8536:23 W-5704 5601 Covered TOS:techs:gnol P:\cm\w-5704E\_SCP-9.dgn sch11.tukg

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



Prepared for the Offices of:

### Fiber Optic Cable Splice Detail

Division 4 Johnston County Clayton

PLAN DATE: February 2025 REVIEWED BY: J.M. Justine

PREPARED BY: S.R. Chiluka REVIEWED BY: M.L. Stygles

REVISIONS	INIT.	DATE

DocuSigned by: S.R. Chiluka  
750 N. Greenfield Pkwy, Garner, NC 27529

7/30/2025