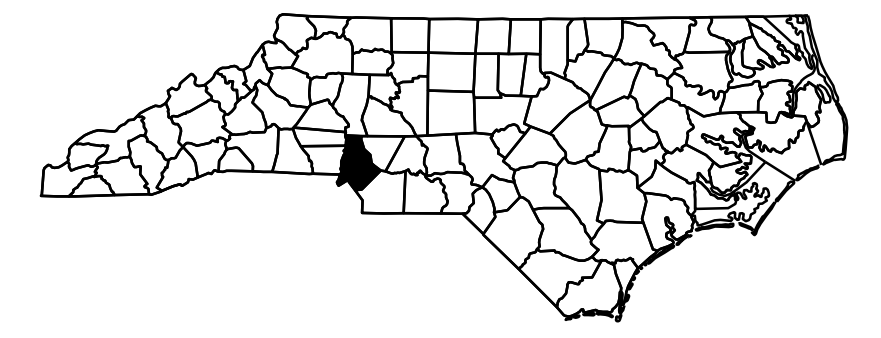


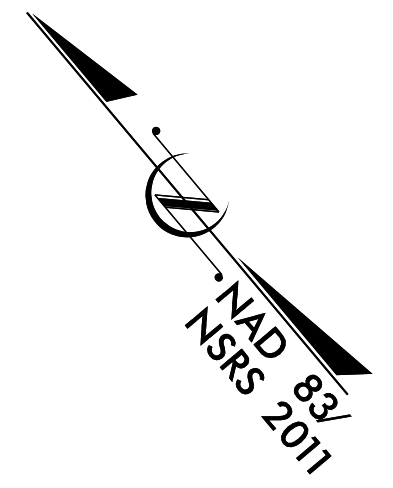
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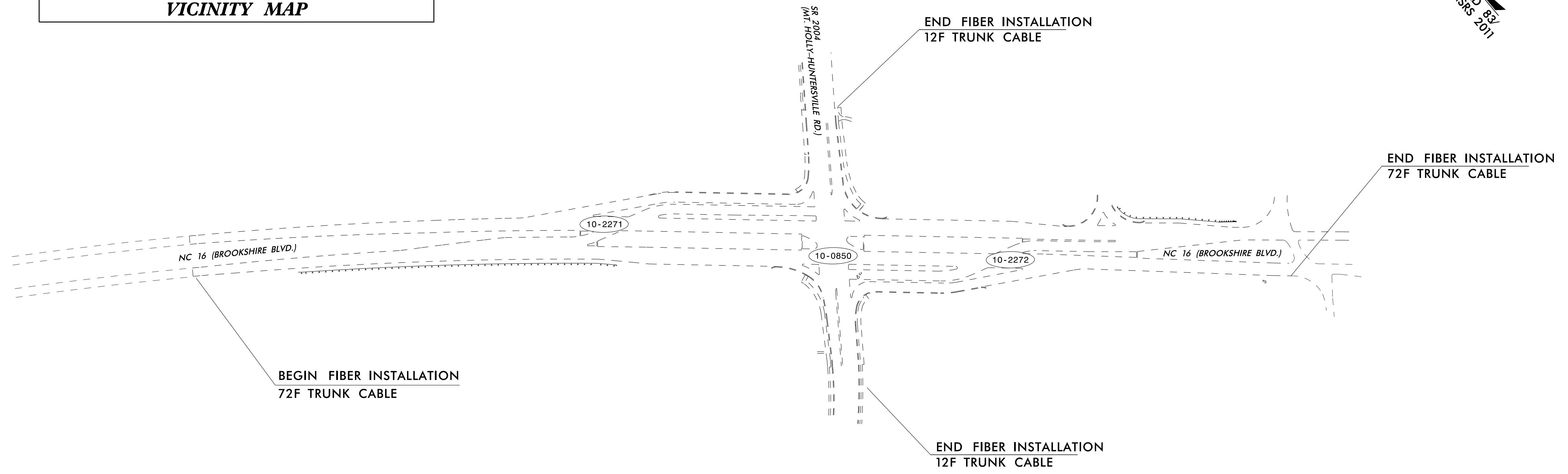
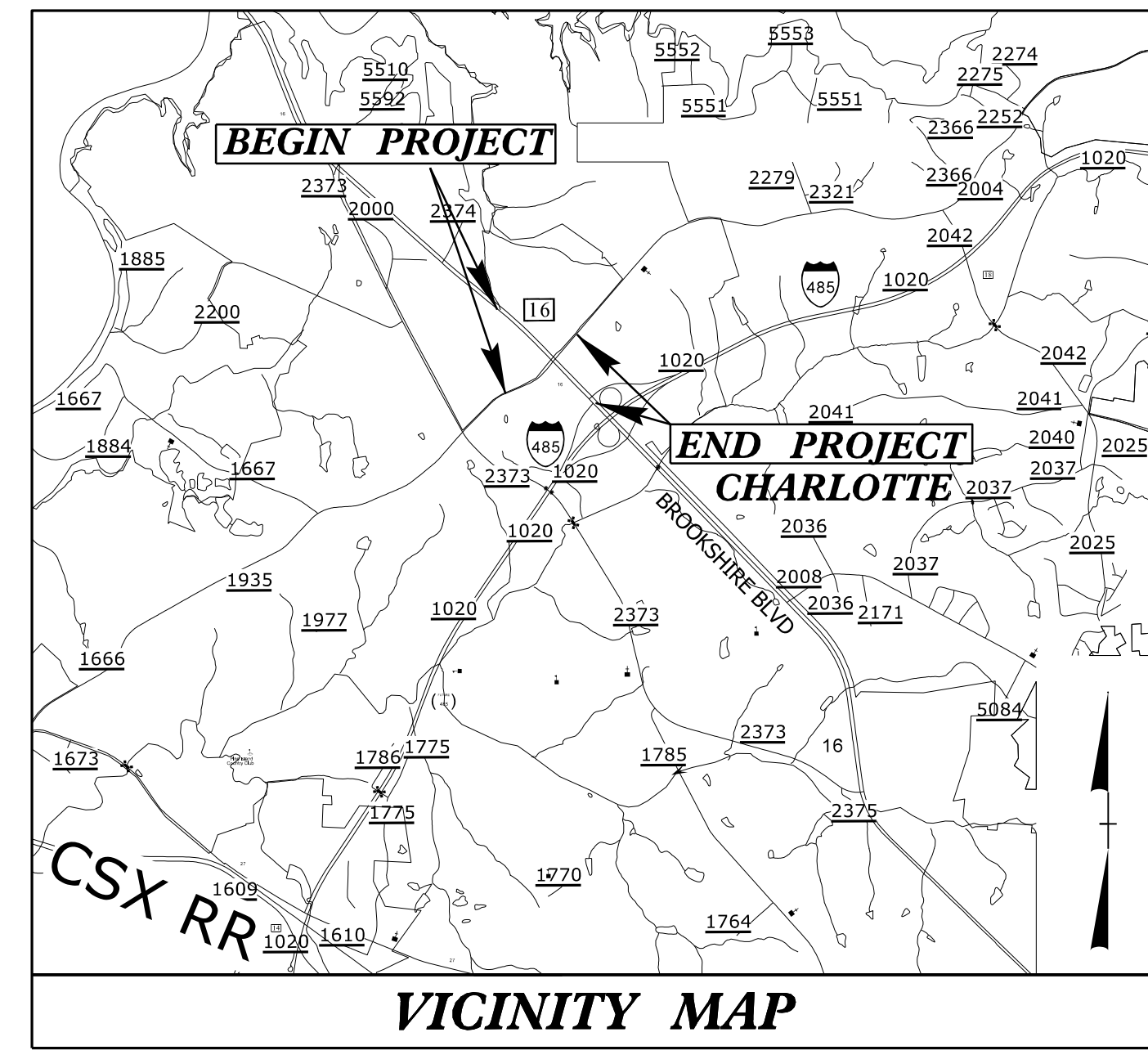


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

**LOCATION: NC 16 (BROOKSHIRE BOULEVARD) FROM
NORTH OF SR 2004 (MOUNT HOLLY-HUNTERSVILLE ROAD) TO
SOUTH OF INTERSTATE 485 RAMP**

**TYPE OF WORK: FIBER CABLE INSTALLATION, CCTV CAMERA INSTALLATION
AND CONNECTING NEW SIGNALS**



TIP PROJECT: U-6084

CONTRACT: C204126

INDEX OF PLANS	
SHEET NUMBER	LOCATION / DESCRIPTION
SCP-01	TITLE SHEET
SCP-02	SCHEMATIC ONE-LINE DIAGRAM
SCP-03	DRAWING FORMAT ITEMS - CONSTRUCTION NOTES, CABLE INSTALLATION NOTES
SCP-04 thru SCP-07	TRUNK FIBER INSTALLATION FIBER CABLE ROUTING
SCP-08 thru SCP-14	FIBER CABLE SPLICING DETAILS

ROADWAY STANDARD DRAWINGS	
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C. DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS.	
STD. No.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURE
1101.03	TEMPORARY SHOULDER CLOSURE
1715.01	UNDERGROUND CONDUIT
1716.01	JUNCTION BOXES
1730.01	FIBER OPTIC CABLE

LEGEND	
	SIGNAL INVENTORY No.

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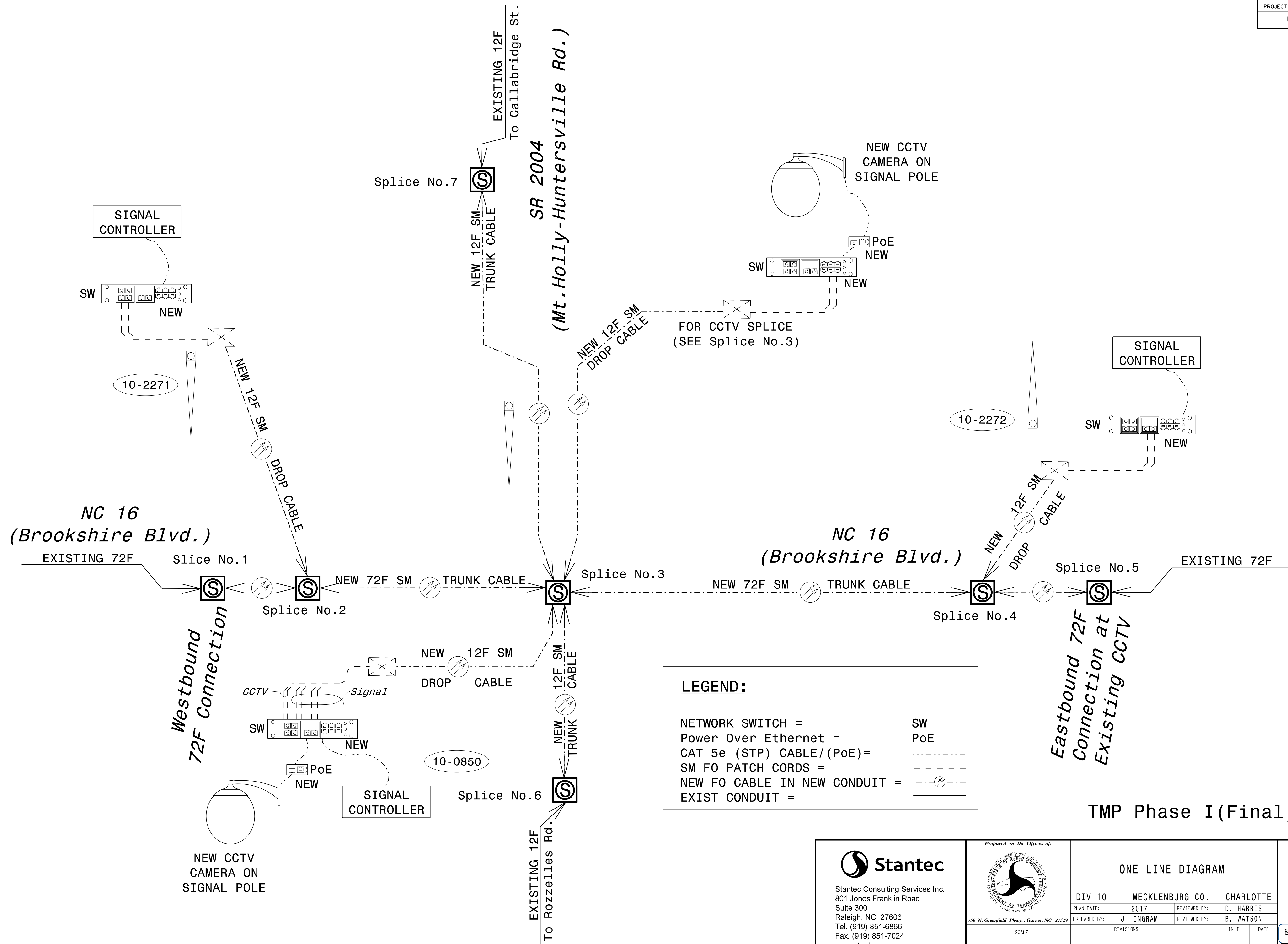
Betsy L. Watson, PE Senior Principal
Dean Harris Senior Transportation Engineer
Jim Ingram Senior ITS Designer

NCDOT CONTACT:
 TRANSPORTATION SAFETY AND MOBILITY
 INTELLIGENT TRANSPORTATION SYSTEMS SECTION
I. Neal Avery Signal Communication Project Engineer
Heidi Berggren, EI Signal Communication Project Design Engineer

Plans Prepared for:
 DIVISION OF HIGHWAYS

750 N. Greenfield Parkway, Garner, NC 27529

DocuSign Envelope ID: 55E47B83E745E
 1/23/2018



LEGEND:

NETWORK SWITCH =	SW
Power Over Ethernet =	PoE
CAT 5e (STP) CABLE/(PoE)=	-----
SM FO PATCH CORDS =	-----
NEW FO CABLE IN NEW CONDUIT =	-----
EXIST CONDUIT =	-----

TMP Phase I(Final)

<p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com</p>	<p>Prepared in the Offices of:</p>	<p>ONE LINE DIAGRAM</p>								
		<p>DIV 10 MECKLENBURG CO. CHARLOTTE</p>	<p>PLAN DATE: 2017 REVIEWED BY: D. HARRIS</p>							
<p>SCALE: NTS</p>	<p>750 N. Greenfield Pkwy., Garner, NC 27529</p>	<p>PREPARED BY: J. INGRAM REVIEWED BY: B. WATSON</p>	<table border="1"> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISIONS	INIT.	DATE				<p>DocuSigned by: <i>Betsy L. Watson</i> 1/23/2018</p>
REVISIONS	INIT.	DATE								

- 1 INSTALL REA, PE – 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 2 INSTALL REA, PE – 38, (FIGURE – 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 3 INSTALL REA, PE – 39, (UNDERGROUND) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE
- 4 INSTALL SMFO CABLE
- 5 INSTALL WEATHERPROOF CATEGORY 5e UTP – 4 PAIR 23 AWG CABLE (PoE)
- 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
- 12A INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL
- 12B INSTALL BRIDGE MOUNTED FIBERGLASS CONDUIT, WITH FOUR-WAY INNERDUCT INSERT
- 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 STUBOUTS
- 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 TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 27 INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET
- 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPlice CABLE IN CABINET
- 29 INSTALL UNDERGROUND SPlice ENCLOSURE
- 30 INSTALL AERIAL SPlice ENCLOSURE
- 31 INSTALL POLE MOUNTED CABINET
- 32 INSTALL BASE MOUNTED CABINET (336) WITH EXTENDED BASE
- 33 REMOVE EXISTING CABINET
- 34 INSTALL CABINET FOUNDATION

- 35 REMOVE EXISTING CABINET FOUNDATION
- 36 INSTALL CCTV CAMERA ASSEMBLY
- 37 INSTALL CCTV CAMERA WOOD POLE
- 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39 INSTALL SPECIAL OVERSIZED JUNCTION BOX WITH 100 FEET OF COMMUNICATION CABLE
- 40 INSTALL OVERSIZED JUNCTION BOX
- 41 REUSE EXISTING METAL CCTV CAMERA POLE WITH NEW POLE FOUNDATION
- 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
- 48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE
- 49 REMOVE EXISTING COMMUNICATIONS CABLE
- 50 INSTALL REEL END SPlice
- 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52 INSTALL DELINEATOR MARKER
- 53 STORE 50 FEET OF COMMUNICATIONS CABLE
- 54 LASH CABLE(S) TO EXISTING SIGNAL/COMMUNICATIONS CABLE
- 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 56 LASH CABLE(S) TO NEW MESSENGER CABLE
- 57 MODIFY EXISTING ELECTRICAL SERVICE
- 58 INSTALL NEW ELECTRICAL SERVICE FOR DMS/CCTV
- 59 INSTALL NEW BASE MOUNTED CABINET (336)
- 60 SEAL ALL CONDUIT ENTERING JUNCTION BOXES AND SIGNAL/CCTV CONTROL CABINETS WITH MOLDABLE DUCT SEAL
- 61 INSTALL ETHERNET SWITCH
- 62 MODIFY EXISTING JUNCTION BOX
- 63 MODIFY EXISTING UNDERGROUND SPlice CLOSURE AND RESEAL
- 64 INSTALL JUNCTION BOX (JB) MARKER

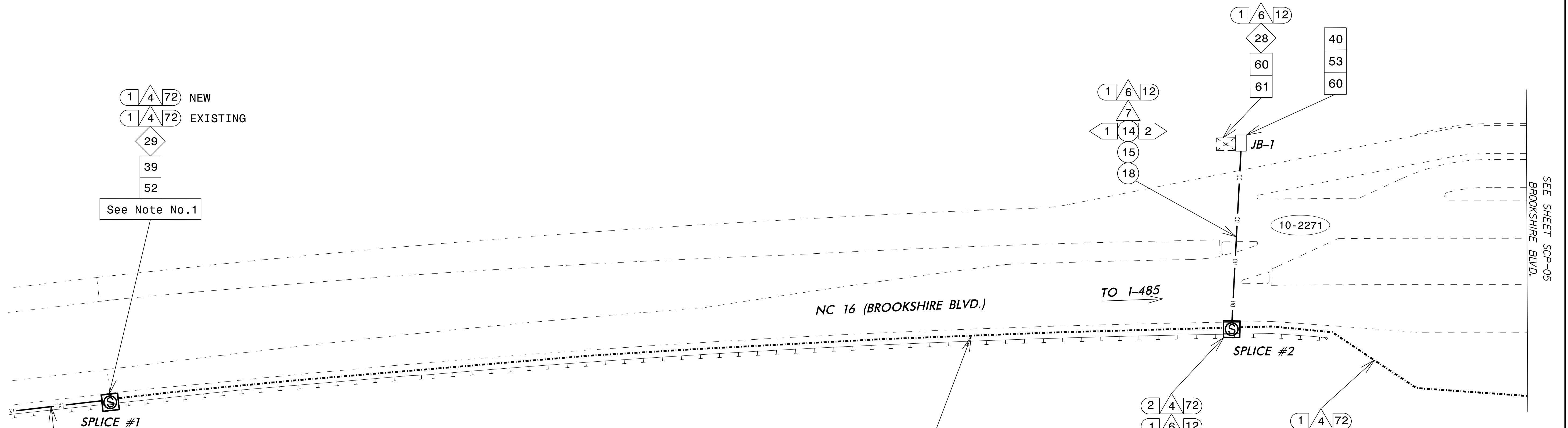
LEGEND

- NEW AERIAL FIBER OPTIC COMMUNICATIONS CABLE
- NEW TWISTED PAIR COMMUNICATIONS CABLE
- EXISTING COMMUNICATIONS CABLE
- EXISTING FENCE LINE
- PROPOSED FENCE LINE
- PROPOSED RIGHT-OF-WAY LINE
- EXISTING WATER LINE /WETLANDS
- NEW FIBER OPTIC COMMUNICATIONS CABLE IN NEW CONDUIT
- NEW FIBER OPTIC COMMUNICATIONS CABLE IN EXISTING CONDUIT
- NEW DIRECTIONAL DRILLED CONDUIT
- NEW BORED AND JACKED CONDUIT
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- NEW WOOD POLE
- EXISTING WOOD POLE
- NEW AERIAL SPlice ENCLOSURE
- NEW METAL SIGNAL POLE
- NEW UNDERGROUND SPlice CLOSURE
- EXISTING METAL SIGNAL POLE
- EXISTING CCTV CAMERA ASSEMBLY
- NEW CCTV CAMERA ASSEMBLY
- NEW STANDARD GUY ASSEMBLY
- NEW STANDARD GUY USING EXISTING ANCHOR
- NEW SIDEWALK GUY ASSEMBLY
- NEW CABLE STORAGE RACKS (SNOW SHOES)
- EXISTING CONTROLLER AND CABINET
- PROPOSED CONTROLLER CABINET
- EXISTING SPlice CABINET
- EXISTING DYNAMIC MESSAGE SIGN (DMS) ON SINGLE STEEL POLE
- EXISTING MASTER CONTROLLER AND CABINET
- SP SIGNAL POLE
- ITS FIELD DEVICES
- YAGI ANTENNA (DOUBLE) FOR REPEATER OPERATION
- YAGI ANTENNA (SINGLE)
- OMNI ANTENNA
- EXISTING UTILITY CABLE TO BE RELOCATED OR REMOVED
- EXISTING POWER PEDESTAL

CONSTRUCTION NOTE SYMBOLOGY KEY

- INDICATES NUMBER OF CABLES, LOOPS, ETC.
 - INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.
 - INDICATES NUMBER OF RISER(S)/CONDUIT(S)
 - INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)
- Diagram illustrating the symbology key with labels:
- NUMBER OF CABLE(S)
 - NUMBER OF RISER(S)/CONDUIT(S)
 - NUMBER OF FIBERS/TWISTED PAIRS
 - DIAMETER OF RISER(S)/CONDUIT(S) (INCH)

<p>Stantec</p> <p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com</p>	<p>Prepared for the Offices of:</p> <p>750 N. Greenfield Plaza., Garner, NC 27529</p>	<p>BROOKSHIRE BLVD. ITS FIBER CABLE ROUTE</p> <p>CONSTRUCTION NOTES</p> <p>DIV 10 MECKLENBURG CO. CHARLOTTE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PLAN DATE: 2017</td> <td>REVIEWED BY: D. HARRIS</td> </tr> <tr> <td>PREPARED BY: J. INGRAM</td> <td>REVIEWED BY: B. WATSON</td> </tr> </table>	PLAN DATE: 2017	REVIEWED BY: D. HARRIS	PREPARED BY: J. INGRAM	REVIEWED BY: B. WATSON	<p>SEAL</p> <p>DocuSigned by: <i>Bethany L. Watson</i> 1/23/2018</p> <p>SIGNATURE DATE</p> <p>CADD FILE NAME</p>					
	PLAN DATE: 2017	REVIEWED BY: D. HARRIS										
PREPARED BY: J. INGRAM	REVIEWED BY: B. WATSON											
<p>SCALE</p> <p>0</p> <p>N/A</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS	INIT.	DATE							
REVISIONS	INIT.	DATE										



NOTES:

1. THE FIRST PHASE OF THE FIBER INSTALLATION FOR THE WEST PORTION AND WEST CROSSOVER SHALL CONSIST OF THE DUAL CONDUIT AND FIBER INSTALLATION FROM SPLICE #1, TO SPLICE #2, AND THE DIRECT DRILL FROM SPLICE #2 TO JB-1 FOR CONNECTION TO THE TEMPORARY AND FINAL LOCATION OF THE SIGNAL CABINET FOR THE WEST CROSSOVER.
2. FOR SPLICE #1, THE CONTRACTOR SHALL LOCATE THE EXISTING 72F TRUNK CABLE AND CONDUIT, SET A NEW SPLICE BOX AND SPLICE TO NEW 72F TRUNK CABLE (REEL END SPLICE). BEGIN NEW CONDUIT AND CABLE RUN HERE, BURY NEW CONDUIT BETWEEN GUARDRAIL AND EDGE OF PAVEMENT.
3. FOR SPLICE #2, THE CONTRACTOR SHALL SPLICE THE 12F DROP CABLE FOR THE SIGNAL AT THE WEST CROSSOVER TO THE 72F BACKBONE CABLE.

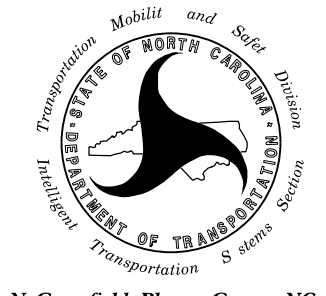
TMP Phase I (Final)

1. INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	15. DIRECTIONAL DRILL CONDUIT	30. INSTALL AERIAL SPLICE ENCLOSURE	46. INSTALL SIDEWALK GUY ASSEMBLY
2. INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE	16. BORE AND JACK CONDUIT	31. INSTALL POLE MOUNTED CABINET	47. INSTALL MESSENGER CABLE
3. INSTALL 3-CONDUCTOR, CLASS B, STRANDED UNDERGROUND POWER CABLE	17. INSTALL CABLE(S) IN EXISTING CONDUIT	32. INSTALL BASE MOUNTED CABINET (336) WITH EXTEND BASE	48. REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE
4. INSTALL SMFO CABLE	18. INSTALL CABLE(S) IN NEW CONDUIT	33. REMOVE EXISTING SPLICE CABINET	49. REMOVE EXISTING COMMUNICATIONS CABLE
5. INSTALL WEATHERPROOF CATEGORY 5e UTP - 4 PAIR 23 AWG CABLE (P6e)	19. INSTALL CABLE(S) IN EXISTING RISER	34. INSTALL CABINET FOUNDATION	50. INSTALL REEL END SPLICE
6. INSTALL FIBER OPTIC DROP CABLE	20. INSTALL CABLE(S) IN NEW RISER	35. REMOVE EXISTING CABINET FOUNDATION	51. INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
7. INSTALL TRACER WIRE	21. INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS	36. INSTALL CCTV CAMERA ASSEMBLY	52. INSTALL DELINEATOR MARKER
8. TRENCH	22. INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	37. INSTALL CCTV CAMERA WOOD POLE	53. STORE 50 FEET OF COMMUNICATIONS CABLE
9. INSTALL PVC CONDUIT	23. INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	54. LASH CABLE(S) TO EXISTING SIGNAL / COMMUNICATIONS CABLE
10. INSTALL RIGID, GALVANIZED STEEL CONDUIT	24. INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET	39. INSTALL SPECIAL OVERSIZED JUNCTION BOX WITH 100 FEET OF COMMUNICATIONS CABLE	55. LASH CABLE(S) TO EXISTING MESSENGER CABLE
11. INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	25. INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET	40. INSTALL OVERSIZED JUNCTION BOX	56. LASH CABLE(S) TO NEW MESSENGER CABLE
12A. INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	26. TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET	41. REUSE EXISTING METAL CCTV CAMERA POLE WITH NEW POLE FOUNDATION	57. MODIFY EXISTING ELECTRICAL SERVICE
12B. INSTALL BRIDGE MOUNTED FIBERGLASS CONDUIT, WITH FOUR-WAY INNERDUCT INSERT	27. INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET	42. INSTALL WOOD POLE	58. INSTALL NEW ELECTRICAL SERVICE FOR CCTV/DMS
13. INSTALL OUTER-DUCT POLYETHYLENE CONDUIT	28. INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET	43. REMOVE EXISTING WOOD POLE	59. INSTALL NEW BASE MOUNTED CABINET (336)
14. INSTALL POLYETHYLENE CONDUIT	29. INSTALL UNDERGROUND SPLICE ENCLOSURE	44. INSTALL AERIAL GUY ASSEMBLY	60. SEAL ALL CONDUIT ENTERING JUNCTION BOXES AND CABINETS WITH MOLDBLE DUCT SEAL
		45. INSTALL STANDARD GUY ASSEMBLY	61. INSTALL ETHERNET SWITCH
			62. MODIFY EXISTING JUNCTION BOX
			63. MODIFY EXISTING UNDERGROUND SPLICE CLOSURE AND RESEAL
			64. INSTALL JUNCTION BOX (JB) MARKER

LEGEND:

--- PROPOSED CONDUIT	□ NEW JUNCTION BOX
--- EXI --- EXISTING CONDUIT	■ EXISTING JUNCTION BOX
--- FD --- NEW AERIAL FIBER OPTIC COMMUNICATIONS CABLE	⊗ NEW UNDERGROUND SPLICE CLOSURE
--- DD --- NEW DIRECTIONAL DRILLED CONDUIT	▶ EXISTING CCTV CAMERA ASSEMBLY
	◀ NEW CCTV CAMERA ASSEMBLY
	Ⓜ EXISTING MASTER CONTROLLER AND CABINET
	Ⓜ EXISTING CONTROLLER AND CABINET

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Prepared for the Offices of:

 DIV 10 MECKLENBURG CO. CHARLOTTE

CABLE ROUTING PLANS

PLAN DATE: 2017 REVIEWED BY: D. HARRIS
 PREPARED BY: J. INGRAM REVIEWED BY: B. WATSON

750 N. Greenfield Pkwy., Garner, NC 27529

SCALE: NTS

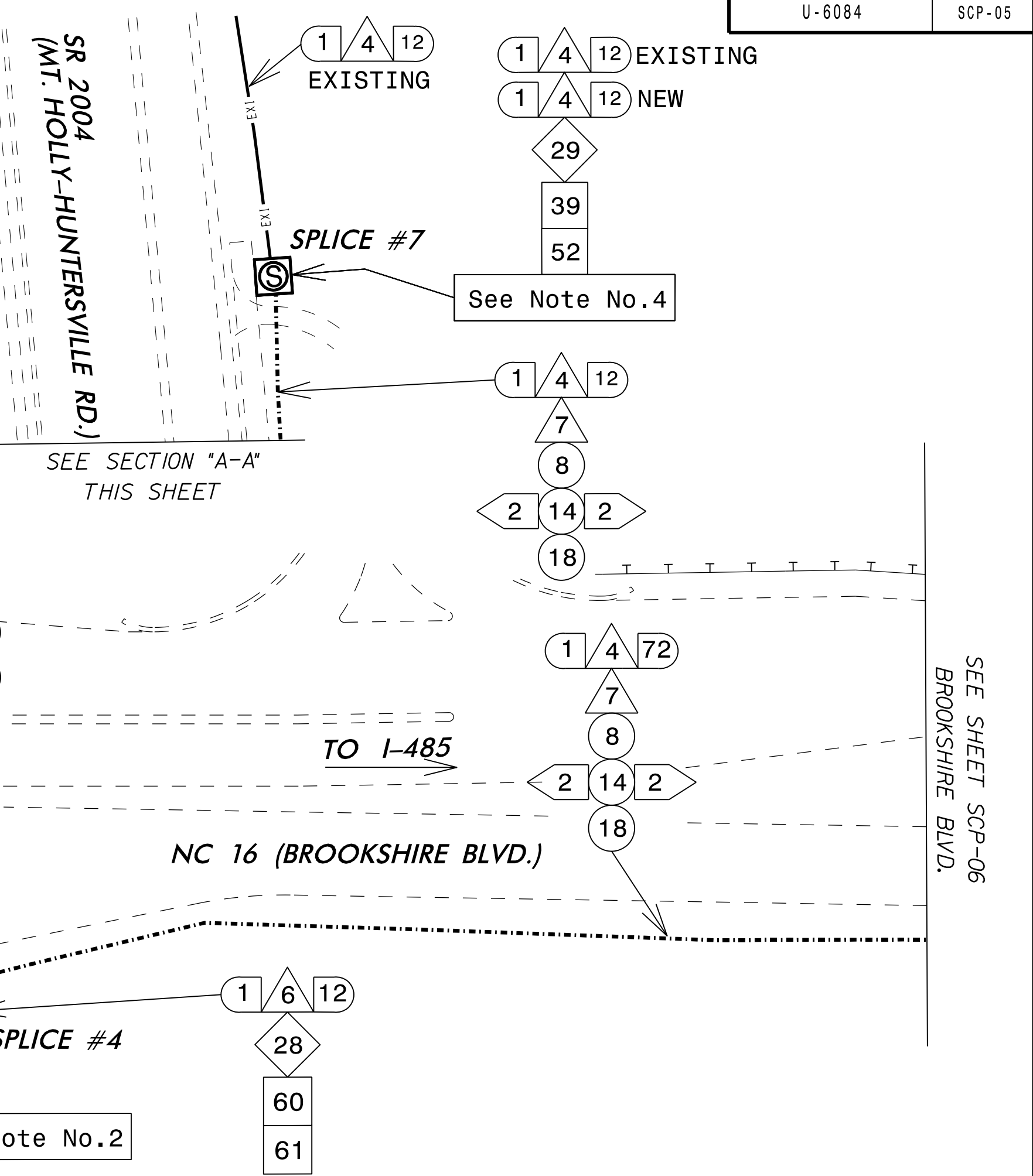
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DocuSigned by: *Betsy L. Watson* 1/23/2018
 SEAL 29449
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FIBER INSTALLATION SHOWN ON THIS SHEET IS FOR THE FIRST PHASE FIBER CONNECTIONS TO KEEP CONNECTIVITY THROUGH CONSTRUCTION. SEE SHEET SCP-07 FOR FINAL CABLE INSTALLATIONS ONCE THE SIGNAL MAST ARMS ARE INSTALLED.

NOTES:

1. FOR THE EXISTING CCTV CAMERA LOCATION, AND THE FIBER DROP FROM THE CALLABRIDGE CT. INTERSECTION, THE CONTRACTOR SHALL INSTALL THE TEMPORARY CABLE CONNECTION FOR BOTH TO THE TEMPORARY SIGNAL POLE AND LASH TO THE SIGNAL SPAN WIRE ACROSS BROOKSHIRE BLVD. AND THEN MT. HOLLY-HUNTERSVILLE RD. TO SPLICE #3, AS SHOWN. THE CONTRACTOR SHALL KEEP THE CCTV CAMERA OPERATIONAL FOR LONG AS POSSIBLE, INSTALL NEW CCTV CAMERA WHEN SIGNAL MAST ARM IS IN PLACE - SEE SIGNAL PLANS AND SCP-07. THE CONTRACTOR SHALL THEN REMOVE THE EXISTING CCTV CAMERA INSTALLATION (INCLUDING CABINET, METAL POLE AND FOUNDATION), AND RETURN THE CAMERA, CABINET AND METAL POLE TO THE CITY OF FAYETTEVILLE.



SEE SHEET SCP-04 BROOKSHIRE BLVD.

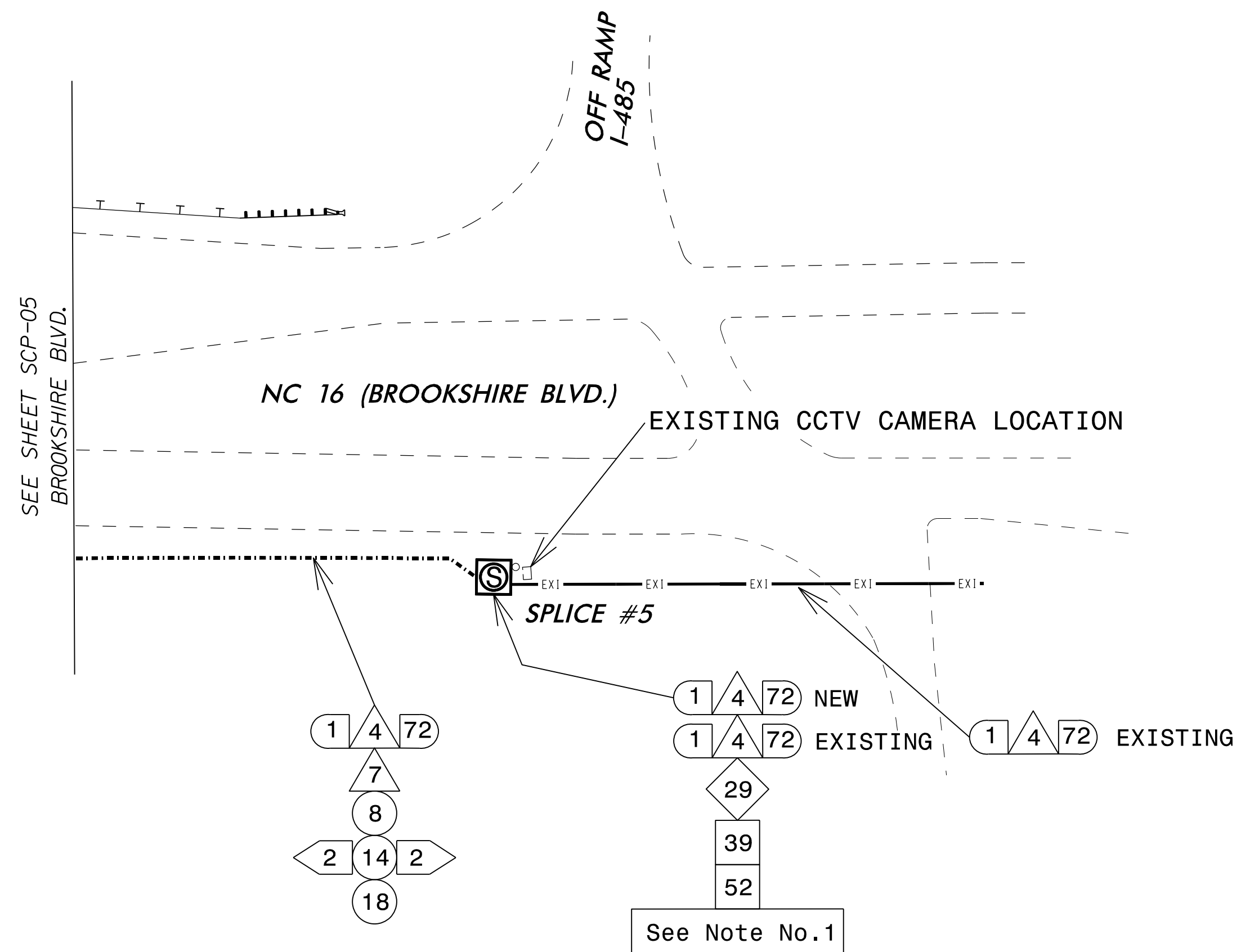
SEE SHEET SCP-06 BROOKSHIRE BLVD.

NOTES:

- 2. FOR SPLICE #4, THE CONTRACTOR SHALL SPLICE THE 12F DROP CABLE FOR THE SIGNAL AT THE EAST CROSSOVER TO THE 72F BACKBONE CABLE
3. FOR SPLICE #6, THE CONTRACTOR SHALL LOCATE THE EXISTING 12F TRUNK CABLE OUTSIDE THE CONSTRUCTION ZONE, THAT INTERCONNECTS WITH THE ROZZELLES FERRY INTERSECTION AND SPLICE TO THE NEW 12F TRUNK CABLE. ABANDON THE EXISTING CONDUIT WITHIN THE CONSTRUCTION ZONE. CONTINUE NEW CONDUIT AND FIBER INSTALLATION ALONG MT. HOLLY-HUNTERSVILLE RD. TO JB-2, AS SHOWN.
4. FOR SPLICE #7, THE CONTRACTOR SHALL LOCATE THE EXISTING 12F TRUNK CABLE OUTSIDE THE CONSTRUCTION ZONE, THAT INTERCONNECTS WITH THE CALLABRIDGE CT. INTERSECTION AND SPLICE TO THE NEW 12F TRUNK CABLE. ABANDON THE EXISTING CONDUIT WITHIN THE CONSTRUCTION ZONE. CONTINUE CONDUIT AND FIBER INSTALLATION ALONG MT. HOLLY-HUNTERSVILLE RD. TO JB-3, AS SHOWN.
5. THE CONTRACTOR WILL NEED TO ACCOUNT FOR ADDITIONAL FIBER CABLE MAINTENANCE LOOPS FOR THE AERIAL CABLES, OR PULL BACK THIS CABLE FOR THE FINAL BUILD-OUT BURIED CONDUIT.

Legend table with 64 items detailing cable types, conduit, junction boxes, and camera assemblies. Includes symbols for proposed and existing conduits, fiber optic cables, and various hardware components.

Project information block including Stantec logo, project name 'TMP Phase I', location 'MECKLENBURG CO. CHARLOTTE', and a signature block for Betty L. Watson dated 1/23/2018.



NOTES:

- FOR SPLICE #5, THE CONTRACTOR SHALL LOCATE THE EXISTING 72F TRUNK CABLE AND CONDUIT, OUTSIDE THE CONSTRUCTION ZONE, SET A NEW SPLICE BOX AND SPLICE TO NEW 72F TRUNK CABLE (REEL END SPLICE). END NEW CONDUIT AND CABLE RUN HERE, ALSO AT THE EXISTING CCTV LOCATION.

TMP Phase I (Final)

<p>1. INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE</p> <p>2. INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE</p> <p>3. INSTALL 3-CONDUCTOR, CLASS B, STRANDED UNDERGROUND POWER CABLE</p> <p>4. INSTALL SMFO CABLE</p> <p>5. INSTALL WEATHERPROOF CATEGORY 5e UTP - 4 PAIR 23 AWG CABLE (PoE)</p> <p>6. INSTALL FIBER OPTIC DROP CABLE</p> <p>7. INSTALL TRACER WIRE</p> <p>8. TRENCH</p> <p>9. INSTALL PVC CONDUIT</p> <p>10. INSTALL RIGID, GALVANIZED STEEL CONDUIT</p> <p>11. INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD</p> <p>12A. INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL</p> <p>12B. INSTALL BRIDGE MOUNTED FIBERGLASS CONDUIT, WITH FOUR-WAY INNERDUCT INSERT</p> <p>13. INSTALL OUTER-DUCT POLYETHYLENE CONDUIT</p> <p>14. INSTALL POLYETHYLENE CONDUIT</p>	<p>15. DIRECTIONAL DRILL CONDUIT</p> <p>16. BORE AND JACK CONDUIT</p> <p>17. INSTALL CABLE(S) IN EXISTING CONDUIT</p> <p>18. INSTALL CABLE(S) IN NEW CONDUIT</p> <p>19. INSTALL CABLE(S) IN EXISTING RISER</p> <p>20. INSTALL CABLE(S) IN NEW RISER</p> <p>21. INSTALL CABLE(S) IN EXISTING CONDUIT STUBOUTS</p> <p>22. INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)</p> <p>23. INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)</p> <p>24. INSTALL NEW CONDUIT INTO EXISTING POLE MOUNTED CABINET</p> <p>25. INSTALL NEW RISER INTO EXISTING POLE MOUNTED CABINET</p> <p>26. TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET</p> <p>27. INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET</p> <p>28. INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET</p> <p>29. INSTALL UNDERGROUND SPLICE ENCLOSURE</p>	<p>30. INSTALL AERIAL SPLICE ENCLOSURE</p> <p>31. INSTALL POLE MOUNTED CABINET</p> <p>32. INSTALL BASE MOUNTED CABINET (336) WITH EXTEND BASE</p> <p>33. REMOVE EXISTING SPLICE CABINET</p> <p>34. INSTALL CABINET FOUNDATION</p> <p>35. REMOVE EXISTING CABINET FOUNDATION</p> <p>36. INSTALL CCTV CAMERA ASSEMBLY</p> <p>37. INSTALL CCTV CAMERA WOOD POLE</p> <p>38. INSTALL CCTV CAMERA METAL POLE AND FOUNDATION</p> <p>39. INSTALL SPECIAL OVERSIZED JUNCTION BOX WITH 100 FEET OF COMMUNICATIONS CABLE</p> <p>40. INSTALL OVERSIZED JUNCTION BOX</p> <p>41. REUSE EXISTING METAL CCTV CAMERA POLE WITH NEW POLE FOUNDATION</p> <p>42. INSTALL WOOD POLE</p> <p>43. REMOVE EXISTING WOOD POLE</p> <p>44. INSTALL AERIAL GUY ASSEMBLY</p> <p>45. INSTALL STANDARD GUY ASSEMBLY</p>	<p>46. INSTALL SIDEWALK GUY ASSEMBLY</p> <p>47. INSTALL MESSENGER CABLE</p> <p>48. REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE</p> <p>49. REMOVE EXISTING COMMUNICATIONS CABLE</p> <p>50. INSTALL REEL END SPLICE</p> <p>51. INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE</p> <p>52. INSTALL DELINEATOR MARKER</p> <p>53. STORE 50 FEET OF COMMUNICATIONS CABLE</p> <p>54. LASH CABLE(S) TO EXISTING SIGNAL / COMMUNICATIONS CABLE</p> <p>55. LASH CABLE(S) TO EXISTING MESSENGER CABLE</p> <p>56. LASH CABLE(S) TO NEW MESSENGER CABLE</p> <p>57. MODIFY EXISTING ELECTRICAL SERVICE</p> <p>58. INSTALL NEW ELECTRICAL SERVICE FOR CCTV/DMS</p> <p>59. INSTALL NEW BASE MOUNTED CABINET (336)</p> <p>60. SEAL ALL CONDUIT ENTERING JUNCTION BOXES AND CABINETS WITH MOLDABLE DUCT SEAL</p> <p>61. INSTALL ETHERNET SWITCH</p>	<p>62. MODIFY EXISTING JUNCTION BOX</p> <p>63. MODIFY EXISTING UNDERGROUND SPLICE CLOSURE AND RESEAL</p> <p>64. INSTALL JUNCTION BOX (JB) MARKER</p>
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LEGEND:

-----	PROPOSED CONDUIT
--- EXI ---	EXISTING CONDUIT
--- FD ---	NEW AERIAL FIBER OPTIC COMMUNICATIONS CABLE
--- DD ---	NEW DIRECTIONAL DRILLED CONDUIT
□	NEW JUNCTION BOX
■	EXISTING JUNCTION BOX
⊗	NEW UNDERGROUND SPLICE CLOSURE
▶	EXISTING CCTV CAMERA ASSEMBLY
◀	NEW CCTV CAMERA ASSEMBLY
Ⓜ	EXISTING MASTER CONTROLLER AND CABINET
Ⓜ	EXISTING CONTROLLER AND CABINET

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Prepared for the Offices of:

CABLE ROUTING PLANS

DIV 10 MECKLENBURG CO. CHARLOTTE

PLAN DATE: 2017 REVIEWED BY: D. HARRIS

PREPARED BY: J. INGRAM REVIEWED BY: B. WATSON

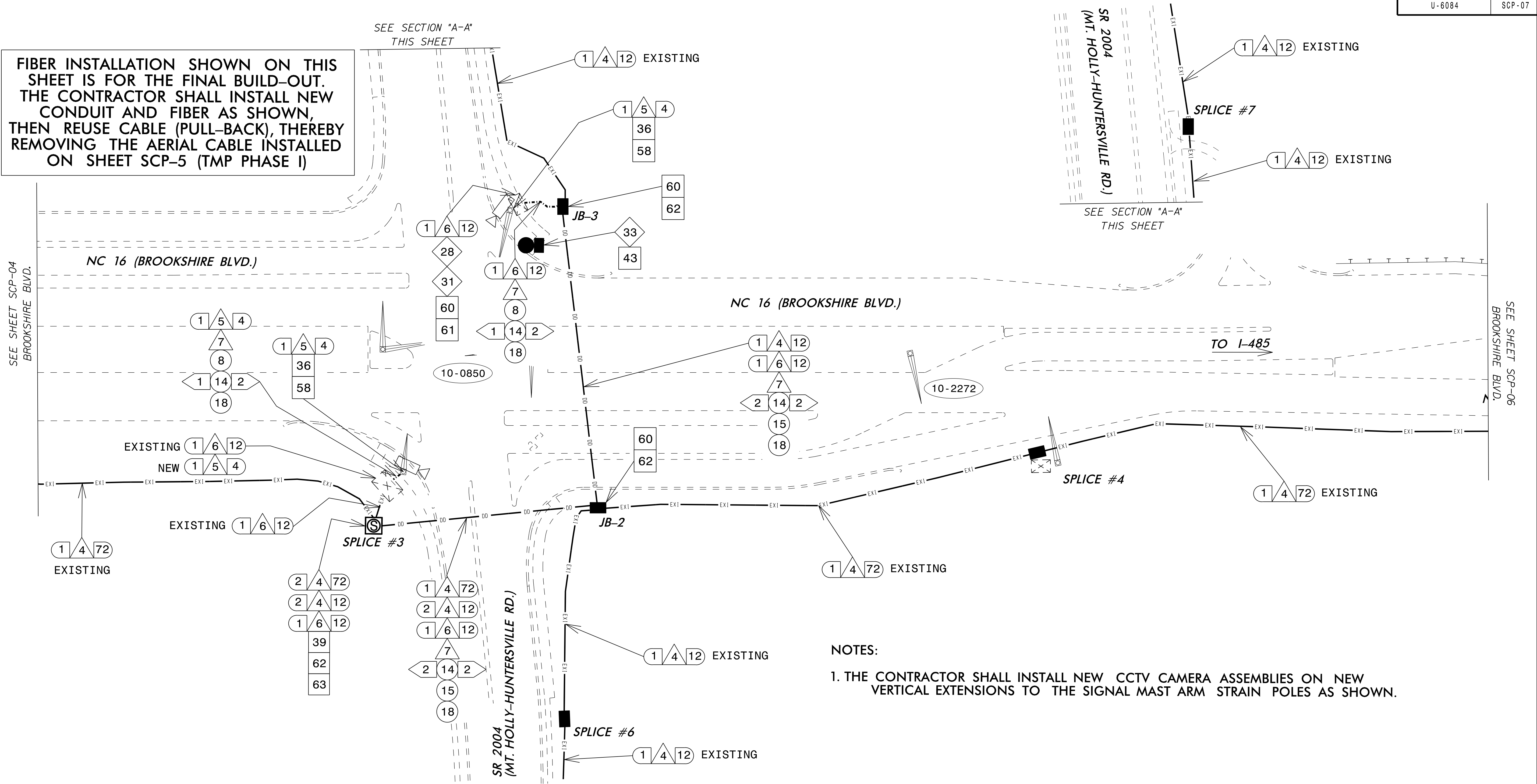
REVISIONS	INIT.	DATE

SCALE: NTS

DocuSigned by: *Bethany J. Watson* 1/23/2018

CADD FILE NAME

FIBER INSTALLATION SHOWN ON THIS SHEET IS FOR THE FINAL BUILD-OUT. THE CONTRACTOR SHALL INSTALL NEW CONDUIT AND FIBER AS SHOWN, THEN REUSE CABLE (PULL-BACK), THEREBY REMOVING THE AERIAL CABLE INSTALLED ON SHEET SCP-5 (TMP PHASE I)



NOTES:
 1. THE CONTRACTOR SHALL INSTALL NEW CCTV CAMERA ASSEMBLIES ON NEW VERTICAL EXTENSIONS TO THE SIGNAL MAST ARM STRAIN POLES AS SHOWN.

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| <ul style="list-style-type: none"> 1 INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE 2 INSTALL REA, PE - 38, (FIGURE - 8) SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE 3 INSTALL 3-CONDUCTOR, CLASS B, STRANDED UNDERGROUND POWER CABLE 4 INSTALL SMFO CABLE 5 INSTALL WEATHERPROOF CATEGORY 5e UTP - 4 PAIR 23 AWG CABLE (PoE) 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 12A INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL 12B INSTALL BRIDGE MOUNTED FIBERGLASS CONDUIT, WITH FOUR-WAY INNERDUCT INSERT 13 INSTALL OUTER-DUCT POLYETHYLENE CONDUIT 14 INSTALL POLYETHYLENE CONDUIT | <ul style="list-style-type: none"> 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 STUBOUTS 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 TERMINATE COMMUNICATIONS CABLE ON EXISTING TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET 27 INSTALL NEW TELEMETRY INTERFACE PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET 28 INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPlice CABLE IN CABINET 29 INSTALL UNDERGROUND SPlice ENCLOSURE | <ul style="list-style-type: none"> 30 INSTALL AERIAL SPlice ENCLOSURE 31 INSTALL POLE MOUNTED CABINET 32 INSTALL BASE MOUNTED CABINET (336) WITH EXTEND BASE 33 REMOVE EXISTING SPlice CABINET 34 INSTALL CABINET FOUNDATION 35 REMOVE EXISTING CABINET FOUNDATION 36 INSTALL CCTV CAMERA ASSEMBLY 37 INSTALL CCTV CAMERA WOOD POLE 38 INSTALL CCTV CAMERA METAL POLE AND FOUNDATION 39 INSTALL SPECIAL OVERSIZED JUNCTION BOX WITH 100 FEET OF COMMUNICATIONS CABLE 40 INSTALL OVERSIZED JUNCTION BOX 41 REUSE EXISTING METAL CCTV CAMERA POLE WITH NEW POLE FOUNDATION 42 INSTALL WOOD POLE 43 REMOVE EXISTING WOOD POLE 44 INSTALL AERIAL GUY ASSEMBLY 45 INSTALL STANDARD GUY ASSEMBLY | <ul style="list-style-type: none"> 46 INSTALL SIDEWALK GUY ASSEMBLY 47 INSTALL MESSENGER CABLE 48 REMOVE EXISTING COMMUNICATIONS CABLE AND MESSENGER CABLE 49 REMOVE EXISTING COMMUNICATIONS CABLE 50 INSTALL REEL END SPlice 51 INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE 52 INSTALL DELINEATOR MARKER 53 STORE 50 FEET OF COMMUNICATIONS CABLE 54 LASH CABLE(S) TO EXISTING SIGNAL / COMMUNICATIONS CABLE 55 LASH CABLE(S) TO EXISTING MESSENGER CABLE 56 LASH CABLE(S) TO NEW MESSENGER CABLE 57 MODIFY EXISTING ELECTRICAL SERVICE 58 INSTALL NEW ELECTRICAL SERVICE FOR CCTV/DMS 59 INSTALL NEW BASE MOUNTED CABINET (336) 60 SEAL ALL CONDUIT ENTERING JUNCTION BOXES AND CABINETS WITH MOLDABLE DUCT SEAL 61 INSTALL ETHERNET SWITCH | <ul style="list-style-type: none"> 62 MODIFY EXISTING JUNCTION BOX 63 MODIFY EXISTING UNDERGROUND SPlice CLOSURE AND RESEAL 64 INSTALL JUNCTION BOX (JB) MARKER |
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LEGEND:

- PROPOSED CONDUIT
- EXI --- EXISTING CONDUIT
- FD --- NEW AERIAL FIBER OPTIC COMMUNICATIONS CABLE
- DD --- NEW DIRECTIONAL DRILLED CONDUIT
- NEW JUNCTION BOX
- EXISTING JUNCTION BOX
- ⊗ NEW UNDERGROUND SPlice CLOSURE
- ▶ EXISTING CCTV CAMERA ASSEMBLY
- ◀ NEW CCTV CAMERA ASSEMBLY
- ⊞ EXISTING MASTER CONTROLLER AND CABINET
- ⊞ EXISTING CONTROLLER AND CABINET

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TMP Final Phase

CABLE ROUTING PLANS

DIV 10 MECKLENBURG CO. CHARLOTTE

PLAN DATE: 2017 REVIEWED BY: D. HARRIS

PREPARED BY: J. INGRAM REVIEWED BY: B. WATSON

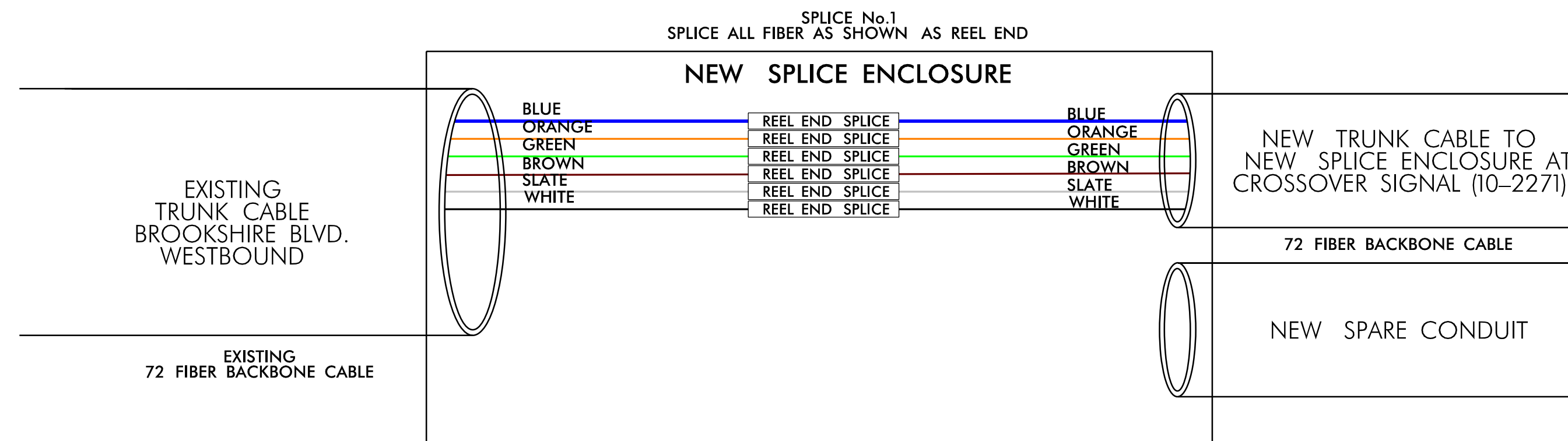
SCALE: NTS

SEAL

DocuSigned by:
 Betsy L. Watson
 1/23/2018

**SPLICE ENCLOSURE AT
WESTBOUND 72F CONNECTION
ON BROOKSHIRE BLVD.**

SPLICE No. 1



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.

TMP Phase I

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 |

LEGEND

- X = FUSION SPLICE
C = CAP IN TRAY
EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING
REEL END SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE

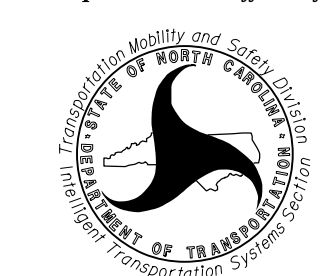
NOTES

- UNUSED FIBER SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
- UNUSED BUFFER TUBES SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
- ETHERNET TERMINATION CONFIGURATIONS ARE GENERIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND ENSURING PROPER TERMINATION.



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Prepared in the Offices of:



750 N. Greenfield Pkwy., Garner, NC 27529

SCALE

N/A

**FIBER OPTIC SPLICE DETAILS
SPLICE No.1**

DIV 10 MECKLENBURG CO. CHARLOTTE

PLAN DATE: 2017 REVIEWED BY: D. HARRIS

PREPARED BY: J. INGRAM REVIEWED BY: B. WATSON

REVISIONS	INIT.	DATE

DocuSigned by:
Patsy L. Watson 1/23/2018

SIGNATURE DATE

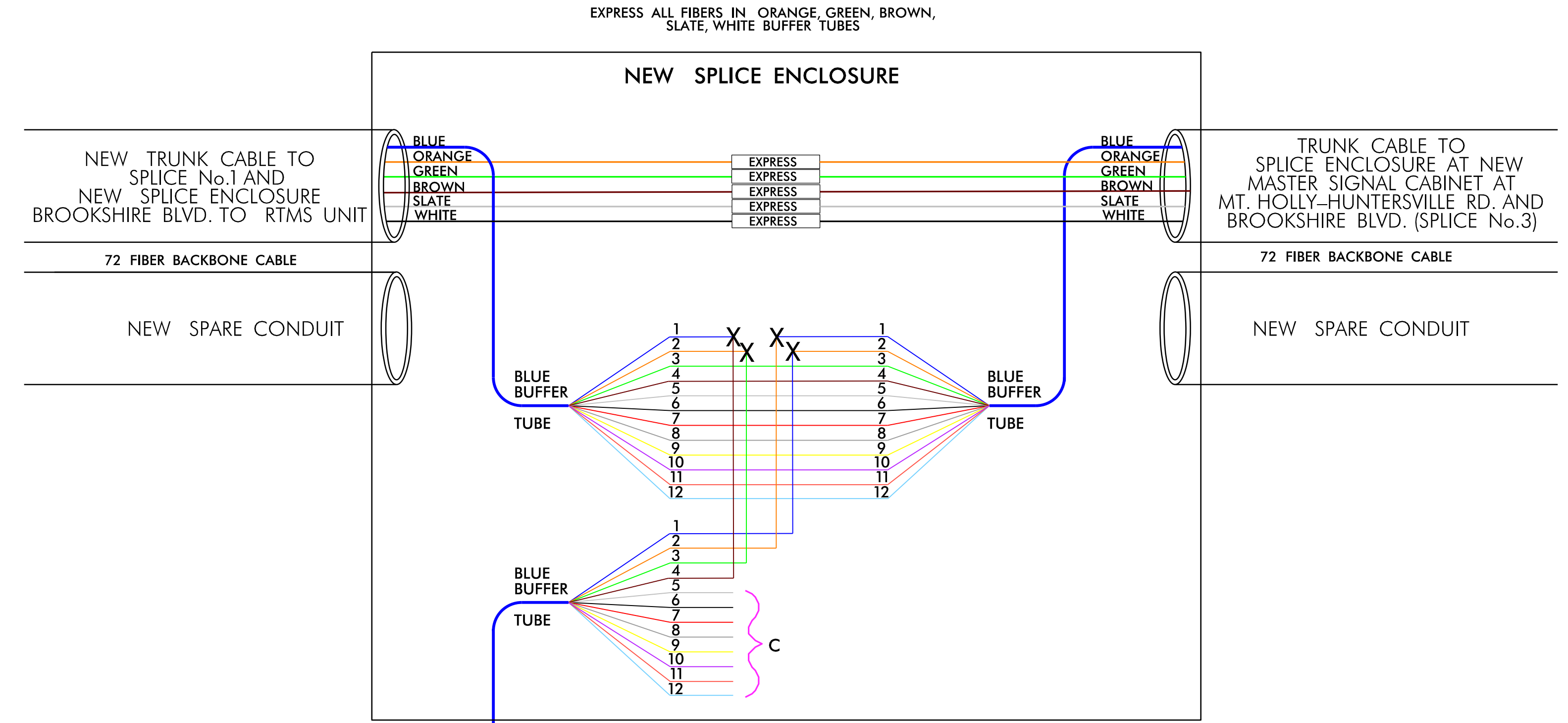
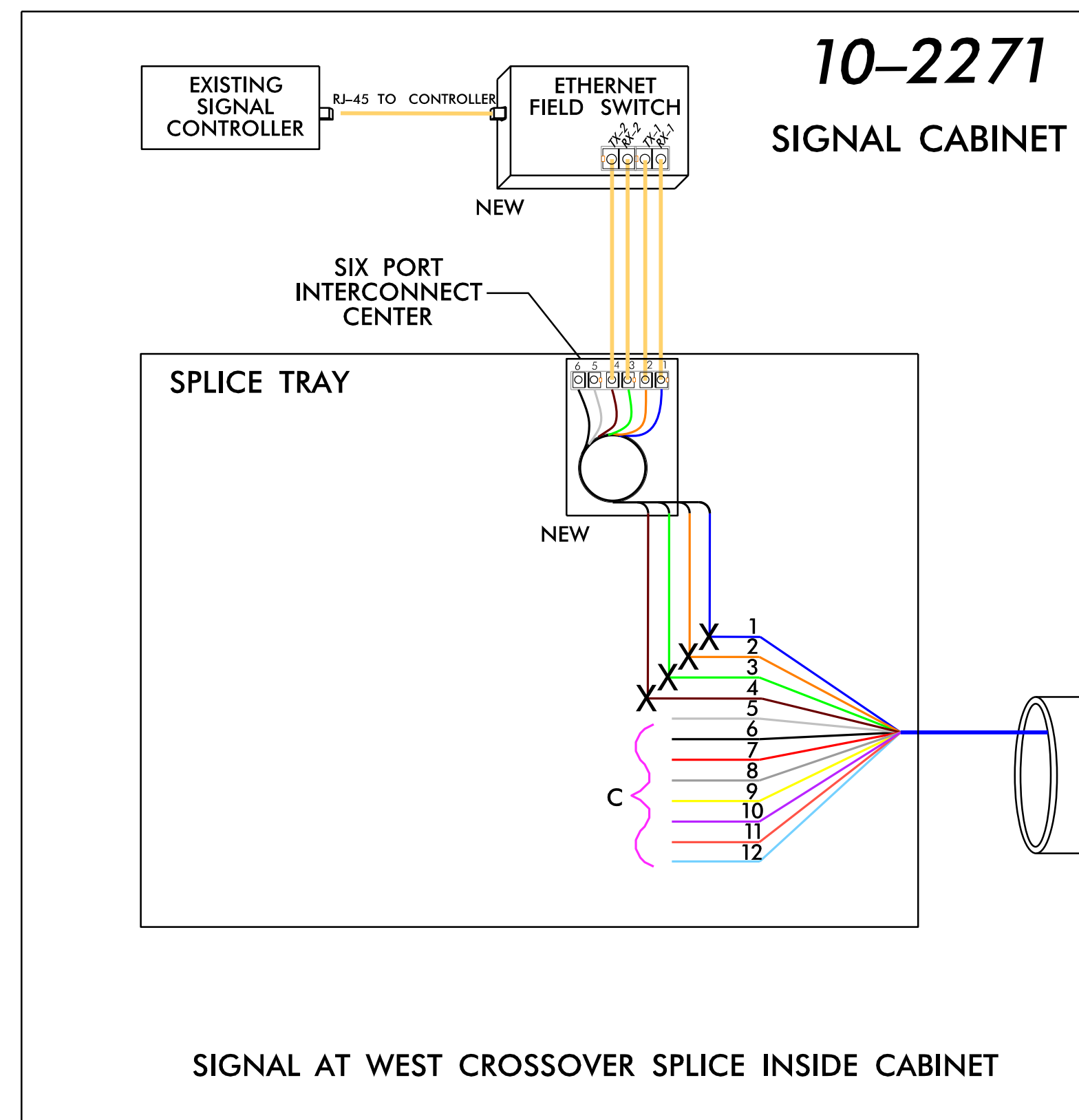
SEAL



CADD Filename:

**SPLICE ENCLOSURE AT
WESTBOUND CROSSOVER SIGNAL
10-2271
ON BROOKSHIRE BLVD.**

SPLICE No. 2



NEW 12F DROP CABLE
FROM WEST CROSSOVER
SIGNAL 10-2271
12 FIBER DROP CABLE

TMP Phase I(Final)

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 OTR TEST RESULTS.

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 |

LEGEND

- X = FUSION SPLICE
- C = CAP IN TRAY
- EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING
- REEL END SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE

NOTES

- UNUSED FIBER SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
- UNUSED BUFFER TUBES SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
- ETHERNET TERMINATION CONFIGURATIONS ARE GENERIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND ENSURING PROPER TERMINATION.

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Prepared in the Offices of:

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FIBER OPTIC SPLICE DETAILS for 10-2271, SPLICE No.2			
PLAN DATE:	2017	REVIEWED BY:	D. HARRIS
PREPARED BY:	J. INGRAM	REVIEWED BY:	B. WATSON
SCALE:	N/A	REVISIONS:	INIT. DATE

SEAL

DocuSigned by:
Betsy L. Watson 1/23/2018

SPLICE ENCLOSURE AT THE INTERSECTION OF BROOKSHIRE BLVD. AND MT. HOLLY-HUNTERSVILLE RD.

SPLICE No. 3

NEW TRUNK CABLE TO NEW SPLICE ENCLOSURE AT WEST CROSSOVER SIGNAL 10-2271 (SPLICE No.2)

72 FIBER BACKBONE CABLE

SPARE CONDUIT

FOR MAINLINE 72 TRUNK CABLE, SPLICE BLUE AND ORANGE BUFFERS AS SHOWN AND EXPRESS ALL OTHER BUFFERS

NEW SPLICE ENCLOSURE

NEW TRUNK CABLE TO NEW SPLICE ENCLOSURE AT EAST CROSSOVER SIGNAL 10-2272 (SPLICE No.4)

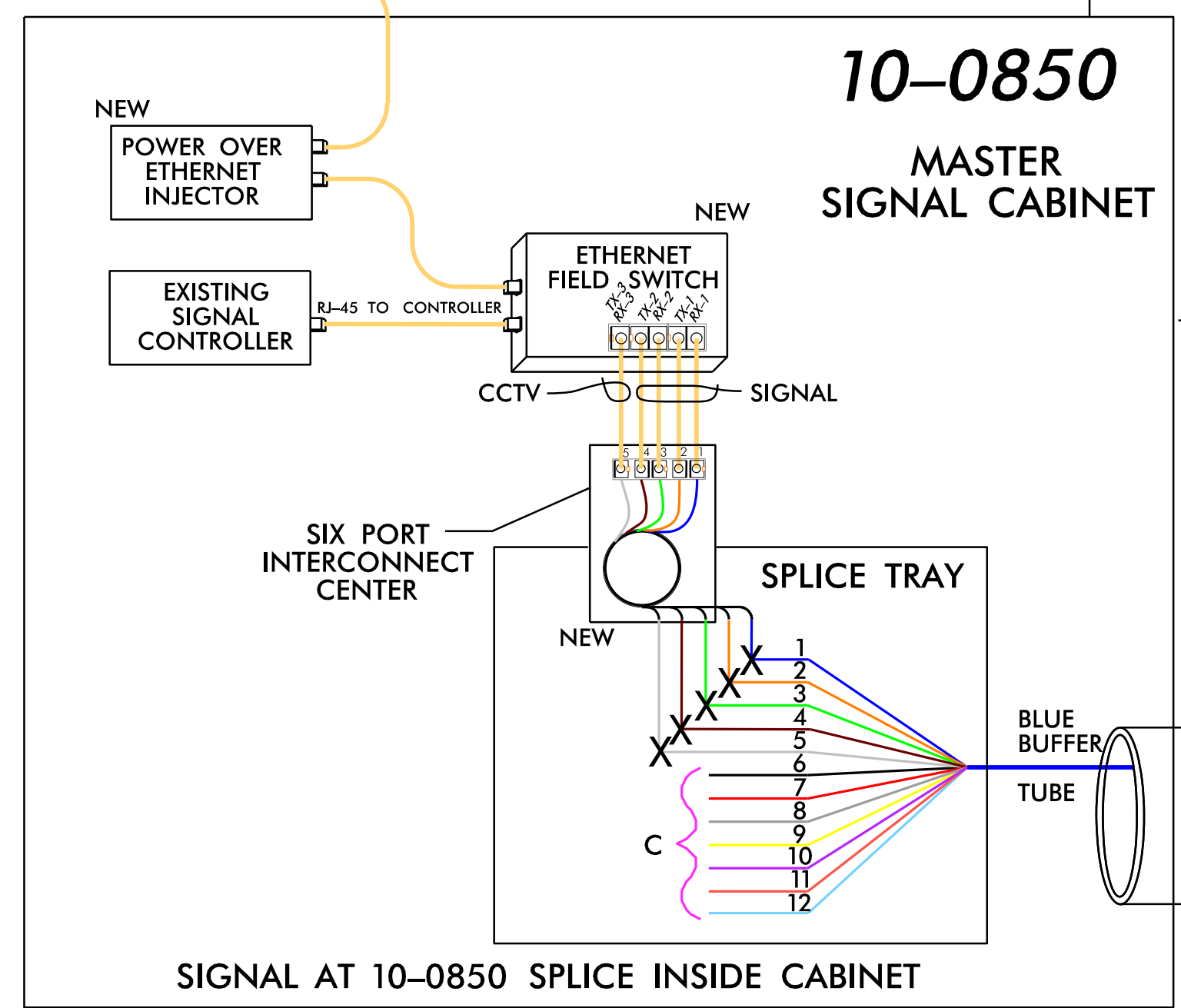
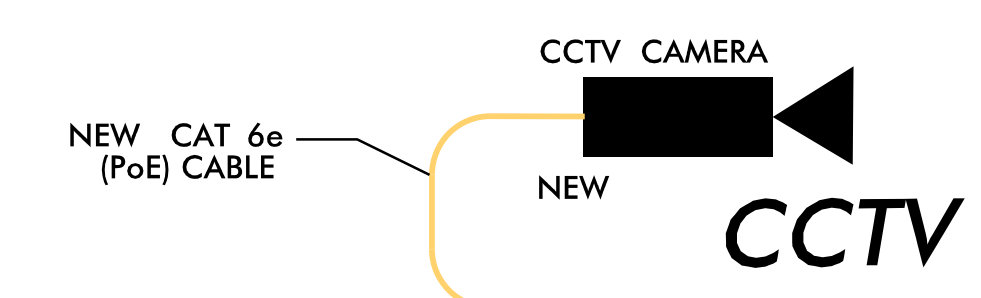
72 FIBER BACKBONE CABLE

SPARE CONDUIT

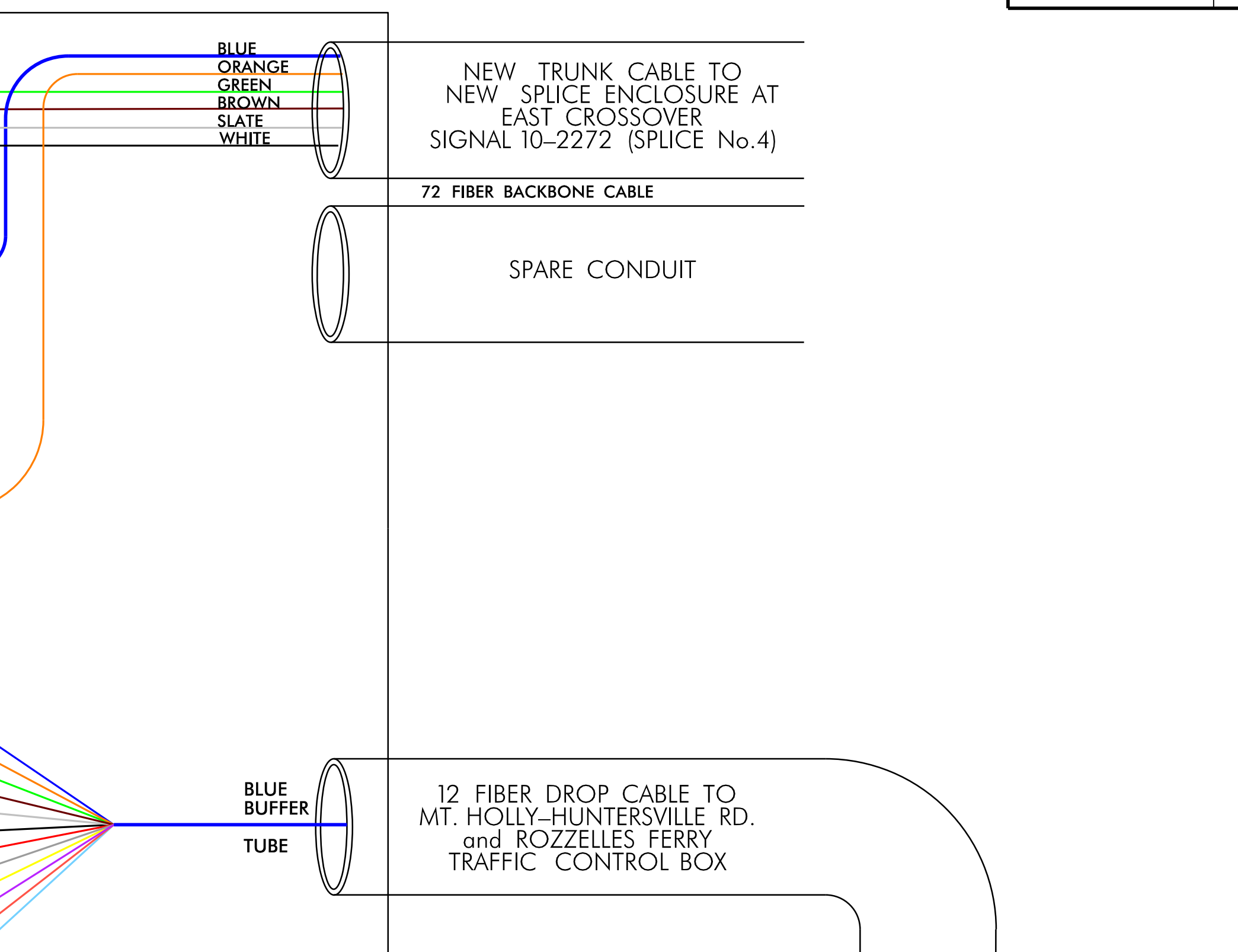
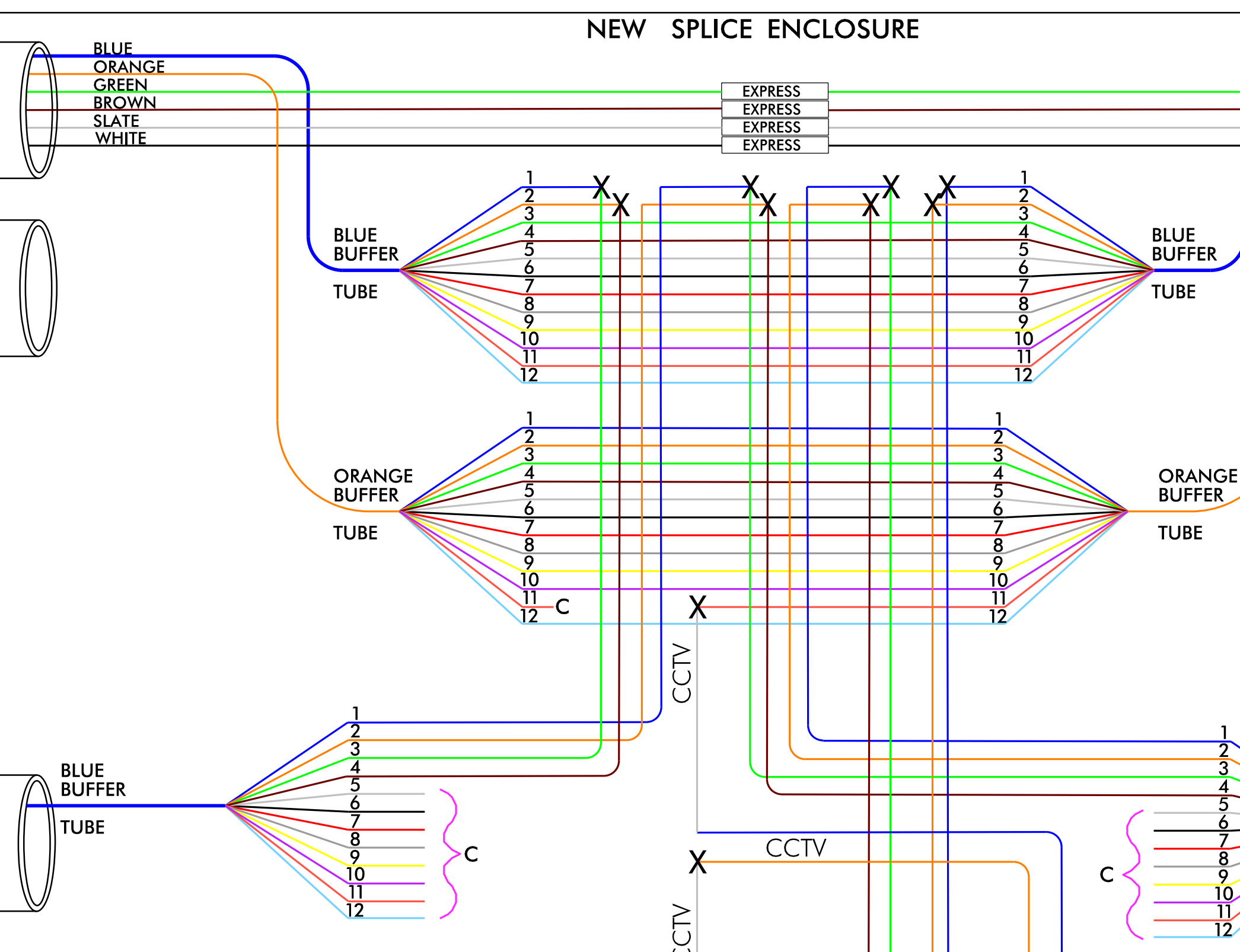
INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING:
REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"
1) SPLICE LOCATION
2) DATE
3) COMPANY NAME
4) NAME OF INDIVIDUAL PERFORMING THE SPLICING
PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (1-4) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS.

12 FIBER DROP CABLE TO MT. HOLLY-HUNTERSVILLE RD. and CALLABRIDGE CT. TRAFFIC CONTROL BOX

12 FIBER DROP CABLE TO MT. HOLLY-HUNTERSVILLE RD. and ROZZELLES FERRY TRAFFIC CONTROL BOX



SIGNAL AT 10-0850 SPLICE INSIDE CABINET



CCTV CABINET

TMP Phase I(Final)

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

LEGEND

- X = FUSION SPLICE
- C = CAP IN TRAY
- EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING
- REEL END SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE

NOTES

1. UNUSED FIBER SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
2. UNUSED BUFFER TUBES SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
3. ETHERNET TERMINATION CONFIGURATIONS ARE GENERIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND ENSURING PROPER TERMINATION.

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Prepared in the Offices of:

750 N. Greenfield Pkwy., Garner, NC 27529
SCALE: N/A

FIBER OPTIC SPLICE DETAILS
SPLICE No.3 and
NEW CCTV-CAMERAS
DIV 10 MECKLENBURG CO. CHARLOTTE
PLAN DATE: 2017
PREPARED BY: J. INGRAM
REVIEWED BY: D. HARRIS
REVISIONS: _____
INIT. DATE

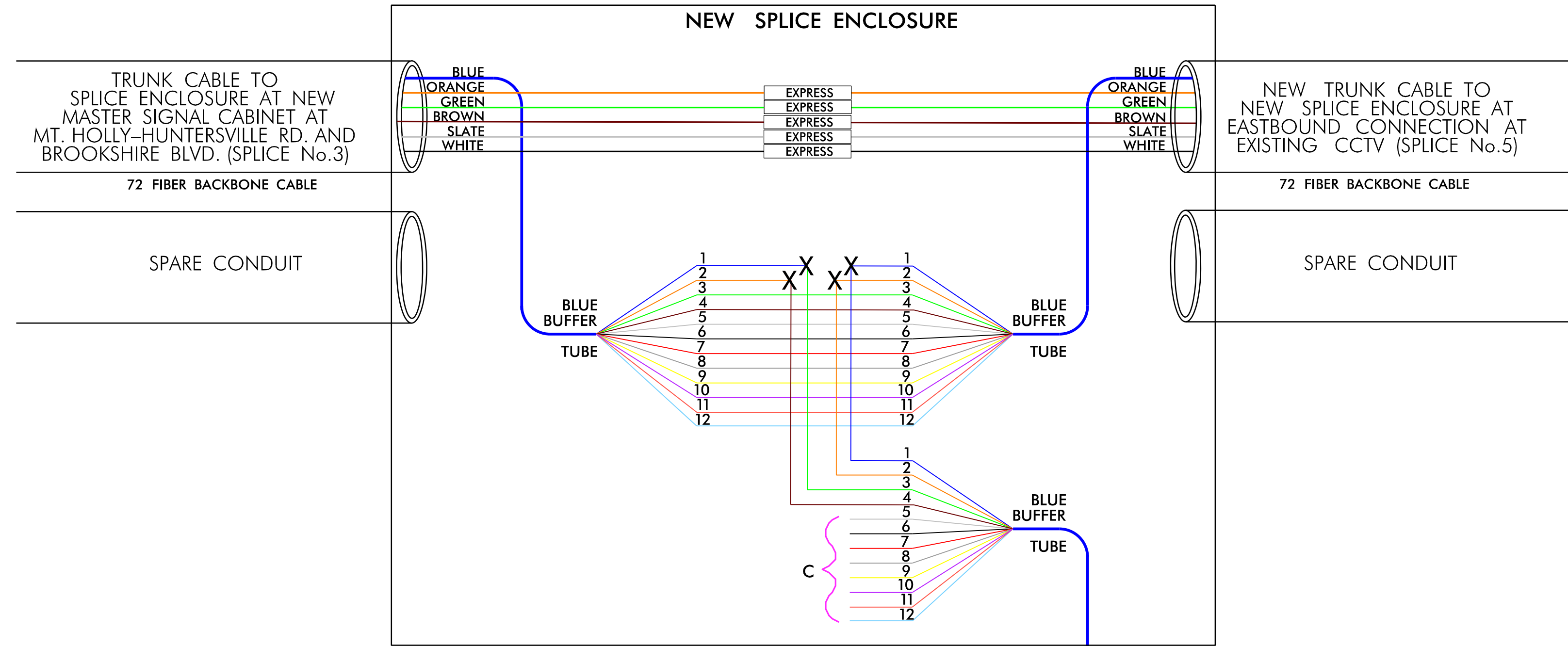
SEAL

Betsy L. Watson
1/23/2018
CADD Filename:

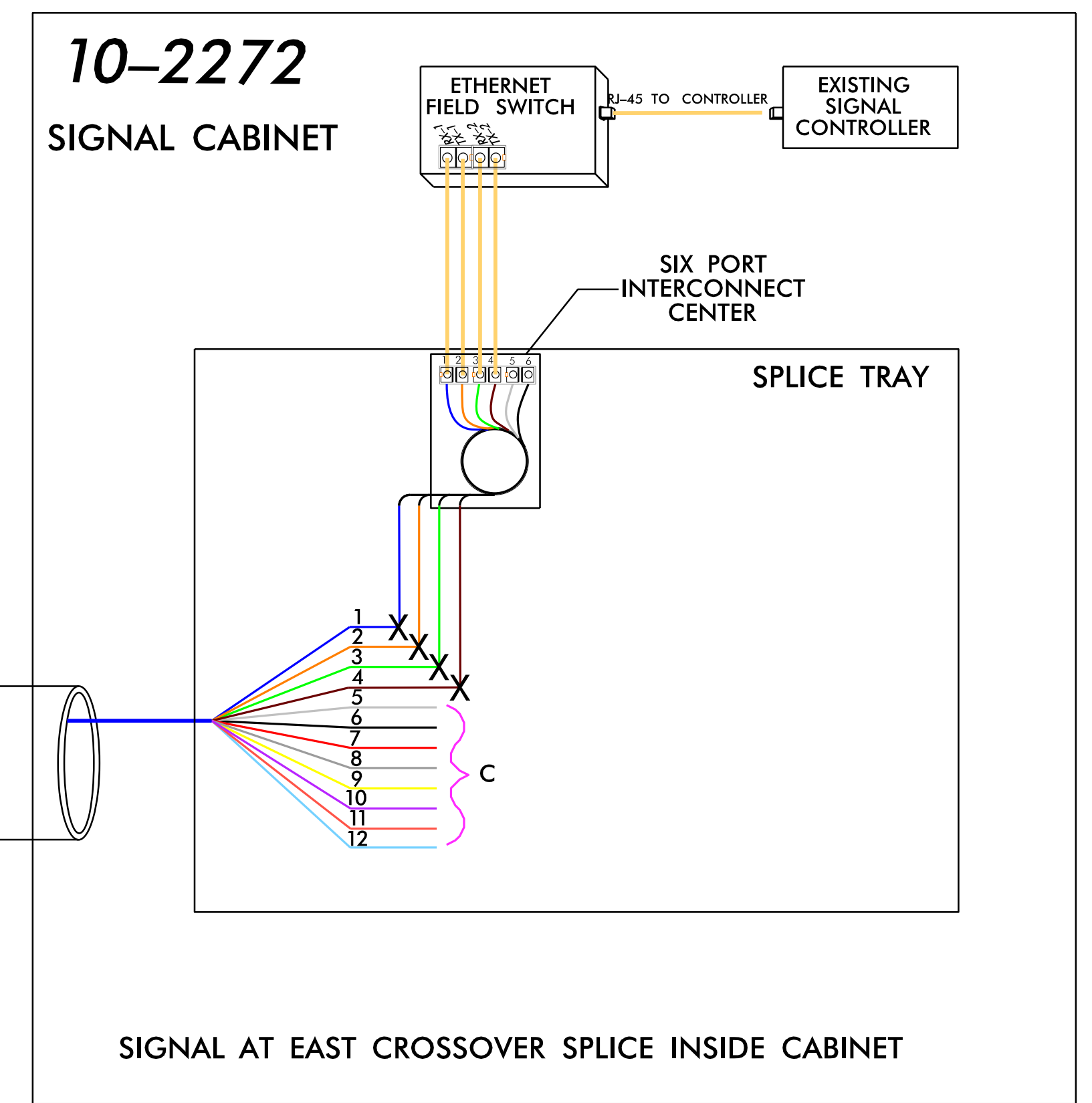
**SPLICE ENCLOSURE AT
EASTBOUND CROSSOVER SIGNAL
10-2272
ON BROOKSHIRE BLVD.**

SPLICE No. 4

EXPRESS ALL FIBERS IN ORANGE, GREEN, BROWN,
SLATE, WHITE BUFFER TUBES



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.



SIGNAL AT EAST CROSSOVER SPLICE INSIDE CABINET

TMP Phase I(Final)

**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 |

LEGEND

- X = FUSION SPLICE
- C = CAP IN TRAY
- EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING
- REEL END SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE

NOTES

- UNUSED FIBER SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
- UNUSED BUFFER TUBES SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
- ETHERNET TERMINATION CONFIGURATIONS ARE GENERIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND ENSURING PROPER TERMINATION.

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**FIBER OPTIC SPLICE DETAILS
for 10-2272, SPLICE No.4**

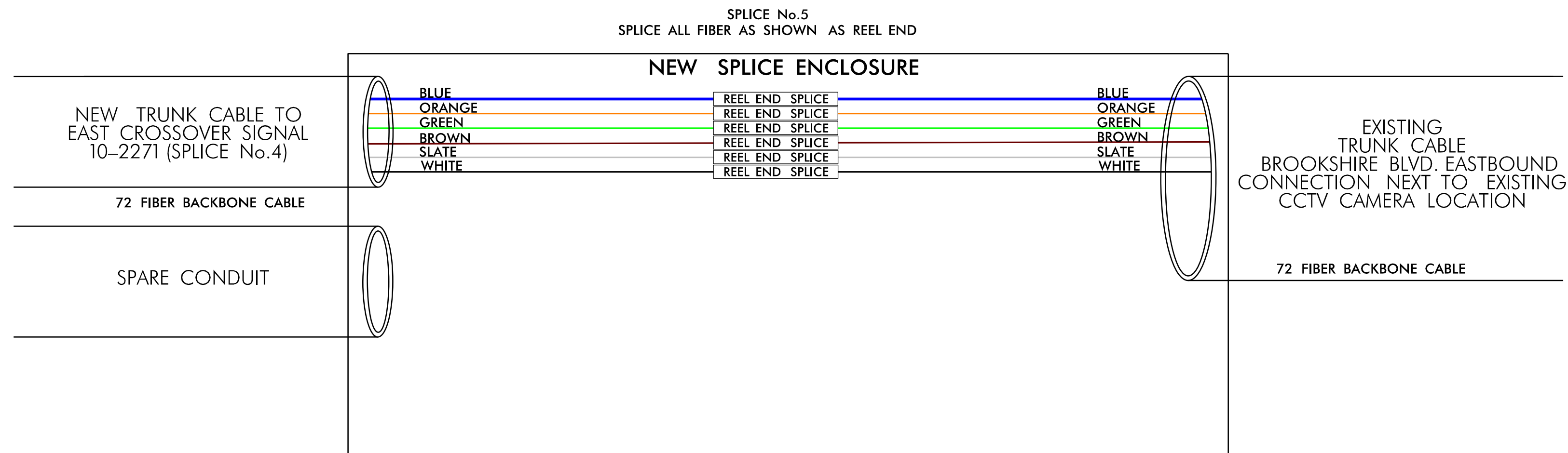
PLAN DATE: 2017	REVIEWED BY: D. HARRIS
PREPARED BY: J. INGRAM	REVIEWED BY: B. WATSON
SCALE: N/A	REVISIONS:
INITIALS:	DATE:

SEAL

DocuSigned by:
Betsy L. Watson
1/23/2018
CADD Filename:

**SPLICE ENCLOSURE AT
EASTBOUND CONNECTION AT
EXISTING CCTV ON
BROOKSHIRE BLVD.**

SPLICE No. 5



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.

TMP Phase I(Final)

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 |

LEGEND

- X = FUSION SPLICE
C = CAP IN TRAY
EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING
REEL END SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE

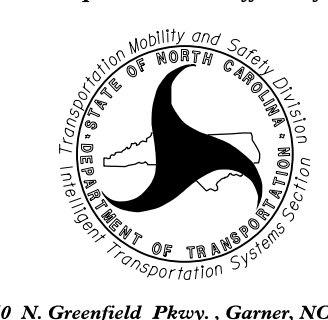
NOTES

- UNUSED FIBER SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
- UNUSED BUFFER TUBES SHALL BE LEFT COILED AND STORED IN THE SPLICE TRAY.
- ETHERNET TERMINATION CONFIGURATIONS ARE GENERIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND ENSURING PROPER TERMINATION.



Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

Prepared in the Offices of:



750 N. Greenfield Pkwy., Garner, NC 27529

SCALE

N/A

**FIBER OPTIC SPLICE DETAILS
SPLICE No. 5**

DIV 10 MECKLENBURG CO. CHARLOTTE

PLAN DATE: 2017	REVIEWED BY: D. HARRIS
PREPARED BY: J. INGRAM	REVIEWED BY: B. WATSON

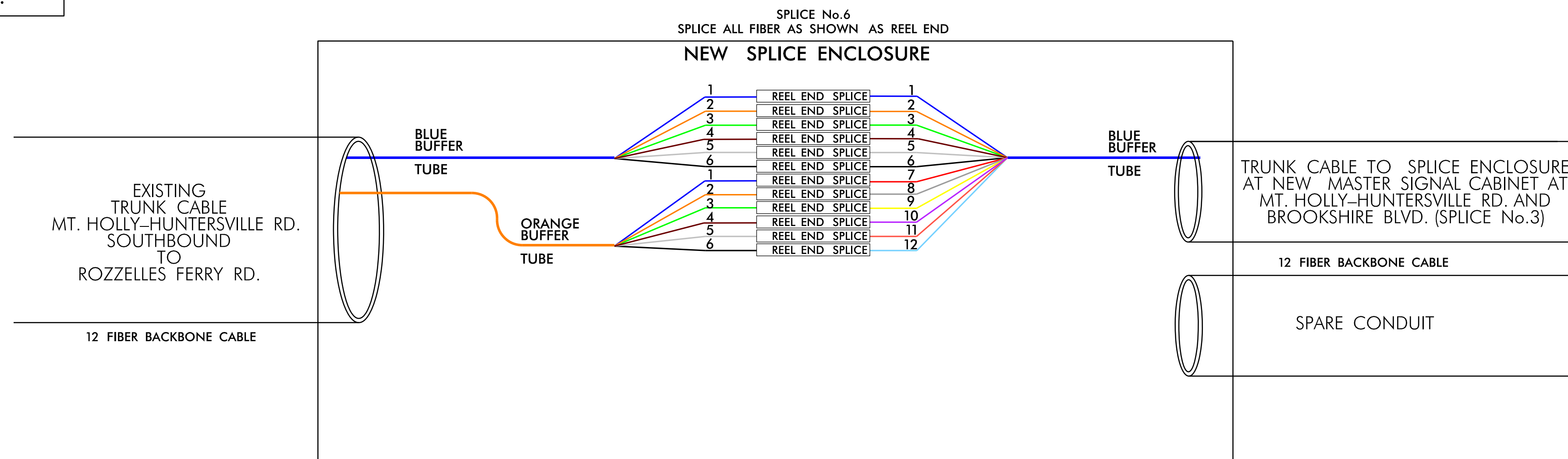
REVISIONS	INIT.	DATE

SEAL

DocuSigned by:
Bethany L. Watson
1/23/2018
CADD Filename:

**SPLICE ENCLOSURE AT
CONNECTION ON
MT. HOLLY-HUNTERSVILLE RD
SOUTH OF BROOKSHIRE BLVD.**

SPLICE No. 6



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
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**FIBER OPTIC SPLICE DETAILS
SPLICE No.6**

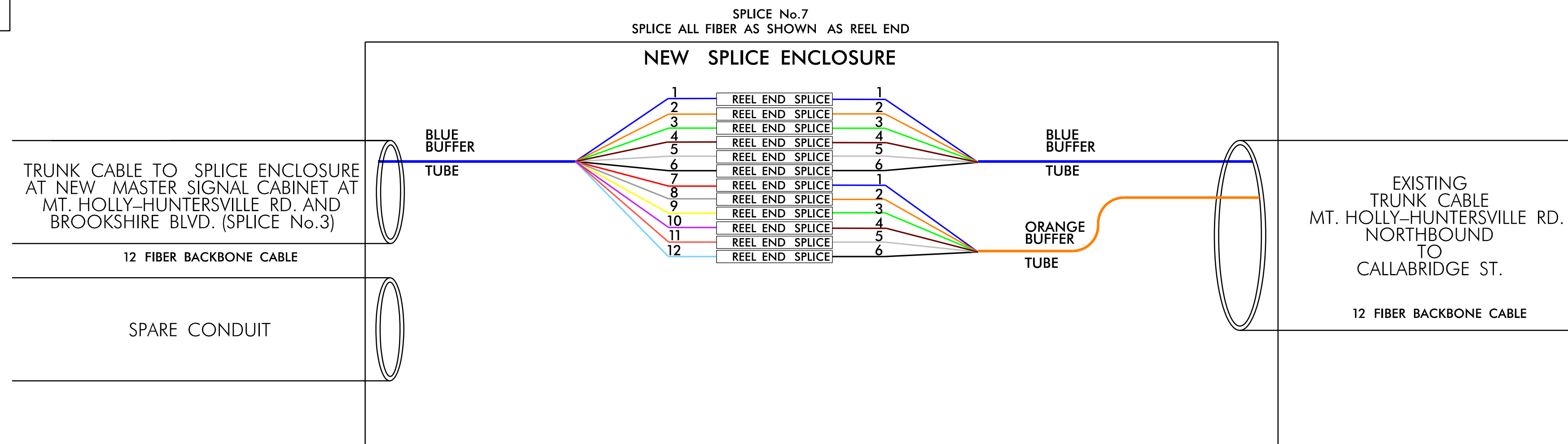
DIV 10	MECKLENBURG CO.	CHARLOTTE
PLAN DATE: 2017	REVIEWED BY: D. HARRIS	
PREPARED BY: J. INGRAM	REVIEWED BY: B. WATSON	
REVISIONS	INIT.	DATE

SEAL

DocuSigned by:
Betsy L. Watson 1/23/2018
SIGNATURE DATE
CADD Filename:

**SPLICE ENCLOSURE AT
CONNECTION ON
MT. HOLLY-HUNTERSVILLE RD
NORTH OF BROOKSHIRE BLVD.**

SPLICE No. 7



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.

TMP Phase I(Final)

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SCALE
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FIBER OPTIC SPLICE DETAILS SPLICE No.7			
DIV 10	MECKLENBURG CO.	CHARLOTTE	
PLAN DATE: 2017	REVIEWED BY: D. HARRIS	PREPARED BY: J. INGRAM	
REVISIONS	INIT.	DATE	

SEAL

DocuSigned by:
Betsy L. Watson
1/23/2018
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