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2/6/2019

INSTALL AERIAL SPLICE ENCLOSURE

PROJECT REFERENCE NO. U-5818 CONSTRUCTION NOTE SYMBOLOGY KEY NUMBER OF CABLE(S)/LOOPS,—DETECTOR AMPLIFIERS, NUMBER OF FIBERS/TWISTED **PAIRS** GUYS, ANTENNAS DIAMETER OF RISER(S)/ RISER(S)/ CONDÙIT(S) CONDUIT(S) (IN) ATTACHMENT POINT DISTANCE ABOVE INCHES REFERENCE POINT REFERENCE POINT DISTANCE BELOW INCHES 1 5 12 BACK-PULL 1 5 12 BACK-PULL 50 SP (13-0611) SR 1001 (SUGAR HILL ROAD) SR 1001 (SUGAR HILL ROAD) TO SPLICE NO.I NORTH OF I-40 WB OFF RAMP 50 1 5 12 BACK-PULL (1/5)1249 1 /5 12 SEE NOTE 3 BACK-PULL (1/5)12**GENERAL NOTES:** 1. NOTIFY THE NCDOT DIVISION 13 TRAFFIC ENGINEER, ANNA HENDERSON PE, AT 828-251-6171 FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE CLOSED LOOP SYSTEM COMMUNICATIONS CABLE. NOTIFY THE DIVISION TRAFFIC ENGINEEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE CLOSED LOOP SYSTEM IS BACK UP AND OPERATIONAL 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. CONTRACTOR MUST DISCONNECT THE EXISTING 12 SMFO CABLE FROM SPLICE TRAY IN SIGNAL CABINET AND PULL BACK TO THE CABLE STORAGE RACKS AS SHOWN BEFORE REINSTALLING AND RESPLICING THE CABLE. TMP Phase I REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE INSTALL NEW RISER INTO POLE MOUNTED (25) INSIDE CABINET 57 MODIFY EXISTING ELECTRICAL SERVICE ( 13 ) INSTALL OUTER-DUCT POLYETHYLENE CONDUIT 37 INSTALL CCTV CAMERA WOOD POLE MODIFY EXISTING INTERCONNECT CENTER INSTALL CCTV CAMERA METAL POLE AND FOUNDATION 58 | INSTALL NEW ELECTRICAL SERVICE ( 14 ) INSTALL POLYETHYLENE CONDUIT 48B REMOVE EXISTING COMMUNICATIONS CABLE SPLICE ENCLOSURE 15 DIRECTIONAL DRILL CONDUIT 39 INSTALL JUNCTION BOX 59 INSTALL NEW ETHERNET EDGE SWITCH INSTALL NEW FIBER OPTIC TRANSCEIVER 48C REMOVE EXISTING MESSENGER CABLE Stantec Consulting Services Inc. Tel. (919) 851-6866 BOND TRACER WIRE TO EQUIPMENT INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET ( 16 ) BORE AND JACK CONDUIT 40A INSTALL OVERSIZED JUNCTION BOX INSTALL SMFO CABLE 49 BACK-PULL EXISTING COMMUNICATIONS CABLE GROUND BUS 801 Jones Franklin Road Fax. (919) 851-7024 INSTALL SPECIAL OVERSIZED JUNCTION BOX DOCUMENT NOT CONSIDERED Suite 300 www.stantec.com DO NOT BOND TRACER WIRE TO ( 17 ) INSTALL CABLE(S) IN EXISTING CONDUIT REMOVE EXISTING COMMUNICATIONS CABLE 40B FINAL UNLESS ALL (29) INSTALL UNDERGROUND SPLICE ENCLOSURE (36" x 36" x 24") EQUIPMENT GROUND BUS MOUNTING HARDWARE Raleigh, NC 27606 License No. F-0672 SIGNATURES COMPLETED INSTALL CABLE STORAGE RACK(S) [SNOW SHOE(S)] AND STORE 100 FEET OF CABLE BOND RISER AND MESSENGER CABLE ( 18 ) INSTALL CABLE(S) IN NEW CONDUIT 41 REMOVE EXISTING JUNCTION BOX (30 ) INSTALL AERIAL SPLICE ENCLOSURE SEAL TO POLE GROUND SR 1001 (Sugar Hill Road) 19 ) INSTALL CABLE(S) IN EXISTING RISER(S) 42 INSTALL WOOD POLE 52A INSTALL DELINEATOR MARKER 63 BOND RISER TO POLE GROUND 31 > INSTALL POLE MOUNTED SPLICE CABINET

INSTALL REA, PE - 22, SHIELDED, TWISTED PAIR COMMUNICATIONS CABLE INSTALL COAXIAL CABLE INSTALL CATEGORY 5E CABLE

BACK\_PULL/REMOVE EXISTING COMMUNICATIONS CABLE INSTALL FIBER OPTIC DROP CABLE

INSTALL CABLE(S) IN EXISTING

INSTALL TRACER WIRE 8 TRENCH

INSTALL PVC CONDUIT

INSTALL RIGID, GALVANIZED STEEL

INSTALL RIGID, GALVANIZED STEEL INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC SEAL

( 20 ) INSTALL CABLE(S) IN NEW RISER(S) 32 > INSTALL BASE MOUNTED SPLICE CABINET

CONDUIT STUBOUTS  $\langle$  33  $\rangle$  REMOVE EXISTING SPLICE CABINET INSTALL NEW CONDUIT INTO CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) 34 INSTALL CABINET FOUNDATION INSTALL NEW RISER INTO CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) 35 INSTALL CCTV CAMERA POLE MOUNTED CABINET INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET 36 INSTALL CCTV CAMERA ASSEMBLY

43 REMOVE EXISTING WOOD POLE 52B INSTALL JUNCTION BOX MARKER 44 INSTALL AERIAL GUY ASSEMBLY 53 STORE 20 FEET OF COMMUNICATIONS CABLE 45 INSTALL STANDARD GUY ASSEMBLY REINSTALL BACKPULLED CABLE(S) LASH CABLE(S) TO EXISTING MESSENGER 46 INSTALL SIDEWALK GUY ASSEMBLY

ON STORAGE RACKS

47 INSTALL MESSENGER CABLE

STORE BACKPULLED FIBER OPTIC CABLE

BOND MESSENGER CABLE TO POLE GROUND INSTALL HEAT SHRINK TUBING RETROFIT 66 INSTALL MOLDABLE DUCT SEAL

67 SLACK SPAN



1"=40'

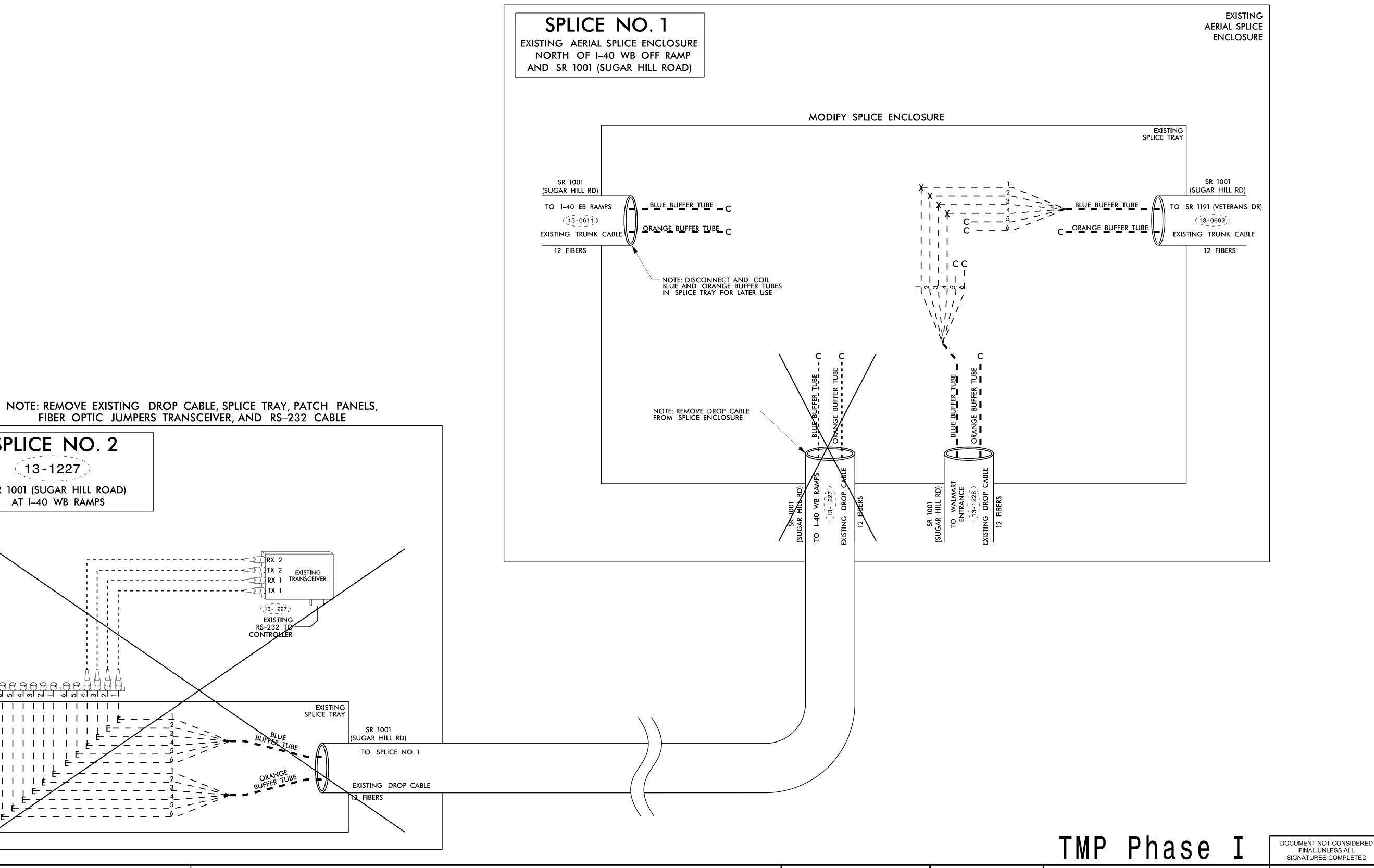
Cable Routing Plans Division 13 McDowell County Marion E D Harris PLAN DATE: February 2019 REVIEWED BY: REVIEWED BY: L Overn REVISIONS INIT. DATE

SEAL 045933 2/6/2019 CADD Filename:

PROJECT REFERENCE NO. SCP-4 U-5818 CONSTRUCTION NOTE SYMBOLOGY KEY NUMBER OF NUMBER OF FIBERS/TWISTED CABLE(S)/LOOPS, DETECTOR AMPLIFIÉRS, **PAIRS** GUYS, ANTENNAS DIAMETER OF OF RISER(S)/ RISER(S)/ CONDUIT(S) CONDUIT(S) (IN) ATTACHMENT POINT DISTANCE ABOVE INCHES REFERENCE POINT REFERENCE POINT DISTANCE BELOW INCHES 1-40 WB ON-RAMP 1 5 12 F SP • (26) SPLICE NO. 13-1227 SR 1001 (SUGAR HILL ROAD) TO 13-0692 SR 1191 (VETERANS DRIVE) TO 13-1228 WALMART ENTRANCE TO 13-0611 1-40 EB RAMPS 50 50 DROP CABLE REMOVE 1 5 12 | REMOVE ( 1 | /5 \ 12) REMOVE (1/5)12SPLICE NO. 2 **GENERAL NOTES:** 1. NOTIFY THE NCDOT DIVISION 13 TRAFFIC ENGINEER, ANNA HENDERSON PE, AT 828-251-6171 FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE CLOSED LOOP SYSTEM COMMUNICATIONS CABLE. NOTIFY THE DIVISION TRAFFIC ENGINEEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE CLOSED LOOP SYSTEM IS BACK UP AND OPERATIONAL. 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. TMP Phase I REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE INSTALL NEW RISER INTO POLE MOUNTED INSTALL REA, PE - 22, SHIELDED, (25) INSIDE CABINET 57 MODIFY EXISTING ELECTRICAL SERVICE ( 13 ) INSTALL OUTER-DUCT POLYETHYLENE CONDUIT 37 INSTALL CCTV CAMERA WOOD POLE TWISTED PAIR COMMUNICATIONS CABLE INSTALL CCTV CAMERA METAL POLE AND FOUNDATION MODIFY EXISTING INTERCONNECT CENTER/ ( 14 ) INSTALL POLYETHYLENE CONDUIT INSTALL COAXIAL CABLE 48B REMOVE EXISTING COMMUNICATIONS CABLE 58 INSTALL NEW ELECTRICAL SERVICE SPLICE ENCLOSURE ( 15 ) DIRECTIONAL DRILL CONDUIT 39 INSTALL JUNCTION BOX 59 INSTALL NEW ETHERNET EDGE SWITCH INSTALL NEW FIBER OPTIC TRANSCEIVER 48C REMOVE EXISTING MESSENGER CABLE INSTALL CATEGORY 5E CABLE Stantec Consulting Services Inc. Tel. (919) 851-6866 BOND TRACER WIRE TO EQUIPMENT INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS, AND FUSION SPLICE CABLE IN CABINET ( 16 ) BORE AND JACK CONDUIT 40A INSTALL OVERSIZED JUNCTION BOX INSTALL SMFO CABLE 49 BACK-PULL EXISTING COMMUNICATIONS CABLE GROUND BUS 801 Jones Franklin Road Fax. (919) 851-7024 DOCUMENT NOT CONSIDERED INSTALL SPECIAL OVERSIZED JUNCTION BOX Suite 300 40B (36" x 36" x 24") www.stantec.com BACK\_PULL/REMOVE EXISTING COMMUNICATIONS CABLE ( 17 ) INSTALL CABLE(S) IN EXISTING CONDUIT DO NOT BOND TRACER WIRE TO REMOVE EXISTING COMMUNICATIONS CABLE FINAL UNLESS ALL (29) INSTALL UNDERGROUND SPLICE ENCLOSURE MOUNTING HARDWARE EQUIPMENT GROUND BUS Raleigh, NC 27606 License No. F-0672 SIGNATURES COMPLETED INSTALL CABLE STORAGE RACK(S) [SNOW SHOE(S)] AND STORE 100 FEET OF CABLE BOND RISER AND MESSENGER CABLE ( 18 ) INSTALL CABLE(S) IN NEW CONDUIT 41 REMOVE EXISTING JUNCTION BOX INSTALL FIBER OPTIC DROP CABLE (30 ) INSTALL AERIAL SPLICE ENCLOSURE SEAL TO POLE GROUND SR 1001 (Sugar Hill Road) ( 19 ) INSTALL CABLE(S) IN EXISTING RISER(S) 42 INSTALL WOOD POLE INSTALL TRACER WIRE 52A INSTALL DELINEATOR MARKER 63 BOND RISER TO POLE GROUND 31 > INSTALL POLE MOUNTED SPLICE CABINET Cable Routing Plans ( 20 ) INSTALL CABLE(S) IN NEW RISER(S) BOND MESSENGER CABLE TO POLE 8 TRENCH 43 REMOVE EXISTING WOOD POLE 52B | INSTALL JUNCTION BOX MARKER 32 > INSTALL BASE MOUNTED SPLICE CABINET GROUND SEAL INSTALL CABLE(S) IN EXISTING INSTALL HEAT SHRINK TUBING RETROFIT INSTALL PVC CONDUIT 44 INSTALL AERIAL GUY ASSEMBLY CONDUIT STUBOUTS 53 STORE 20 FEET OF COMMUNICATIONS CABLE 045933 33 REMOVE EXISTING SPLICE CABINET Division 13 McDowell County Marion INSTALL NEW CONDUIT INTO CABINET BASE E D Harris PLAN DATE: February 2019 REVIEWED BY: INSTALL RIGID, GALVANIZED STEEL 45 INSTALL STANDARD GUY ASSEMBLY 66 INSTALL MOLDABLE DUCT SEAL (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) 54 REINSTALL BACKPULLED CABLE(S) 34 INSTALL CABINET FOUNDATION 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: G B Spell REVIEWED BY: L Overn INSTALL NEW RISER INTO CABINET BASE INSTALL RIGID, GALVANIZED STEEL LASH CABLE(S) TO EXISTING MESSENGER REVISIONS INIT. DATE 46 INSTALL SIDEWALK GUY ASSEMBLY (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE) 67 SLACK SPAN 35 INSTALL CCTV CAMERA POLE MOUNTED CABINET 2/6/2019 INSTALL RIGID, GALVANIZED STEEL INSTALL NEW CONDUIT INTO POLE STORE BACKPULLED FIBER OPTIC CABLE 47 INSTALL MESSENGER CABLE MOUNTED CABINET RISER WITH FIBER OPTIC SEAL 36 INSTALL CCTV CAMERA ASSEMBLY ON STORAGE RACKS 1"=40' CADD Filename:

am ic\*Signals\*Design\*ITS and SCP Design\*Cable Routing\*U-5818\_sc

PROJECT REFERENCE NO. U-5818 SCP-5



COLOR CODE TIA/EIA 598-B

CONTROLLER EXISTING

CONTROLLER

(2) ORANGE

(3) GREEN

(5) SLATE

(6) WHITE

13 - XXXX = CABINET/

(13-XXXX) = CABINET/

(4) BROWN

LEGEND E = EXISTING FUSION SPLICE INDIVIDUAL FIBER TO REMAIN X = FUSION SPLICE INDIVIDUAL FIBER

(8) BLACK (9) YELLOW (10) VIOLET C = CAP AND SEAL(11) ROSE EXPRESS ENTIRE BUFFER TUBE/FIBERS THROUGH WITHOUT CUTTING (12) AQUA PROPOSED

SPLICE NO. 2

〔13-1227*〕* 

SR 1001 (SUGAR HILL ROAD) AT I-40 WB RAMPS

SM FIBER PATCH CORD WITH CONNECTORS 

UNUSED FIBERS AND/OR BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY

CONTRACTOR TO FURNISH SELF HEALING RING TYPE TRANSCEIVERS

NOTIFY THE NCDOT DIVISION 13 TRAFFIC ENGINEER, ANNA HENDERSON PE, AT 828–251–6171 FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE CLOSED LOOP SYSTEM COMMUNICATIONS CABLE. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE CLOSED LOOP SYSTEM IS BACK UP AND OPERATIONAL AFTER FINAL PHASE OF CONSTRUCTION.

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. INCLUDE ON THE COVER OF SPLICE TRAY THE FOLLOWING INFORMTION (REFERENCE STANDARD SPECIFICATIONS SECTION 1731):

SPLICE LOCATION
DATE
COMPANY NAME
NAME OF INDIVIDUAL PERFORMING THE SPLICE

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY, TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (ITEMS A–D) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS



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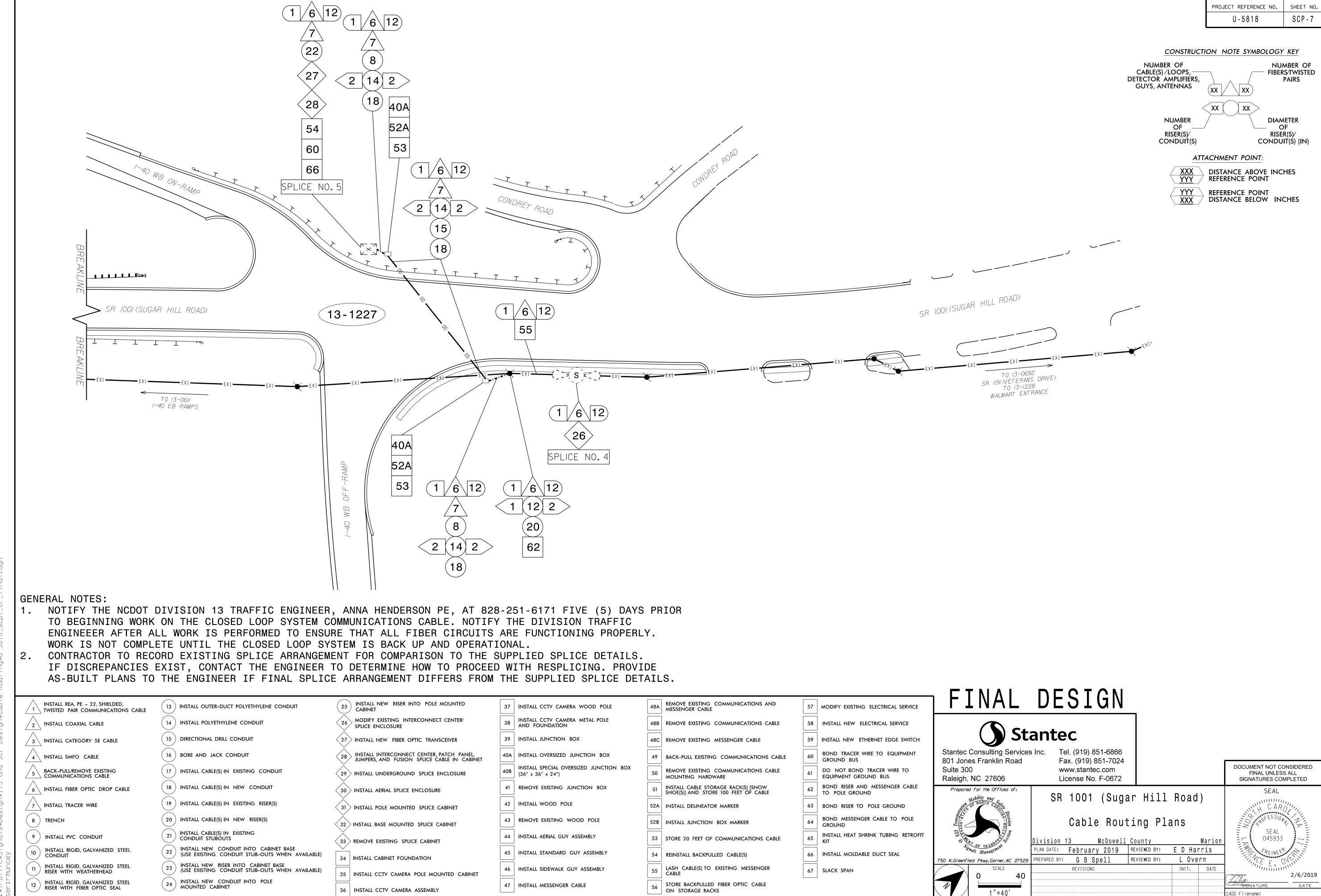


SR 1001 (Sugar Hill Road)

Fiber Optic Splice Details

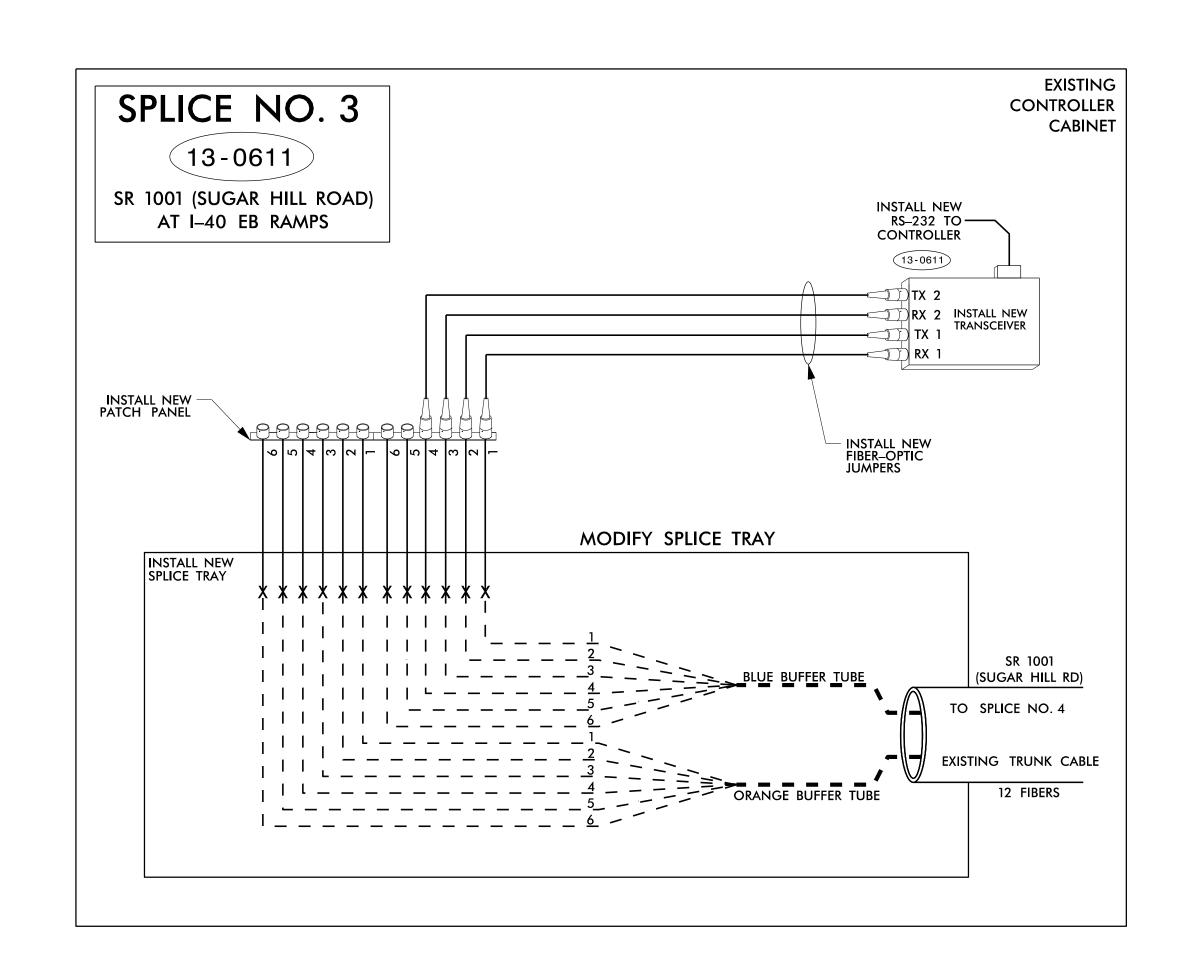
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Division 13	McDowell	County		Marion	
OF TRANSPORT	PLAN DATE: Fe	ebruary 2019	REVIEWED BY:	E D Har	rris	
Pkwy.Garner.NC 27529	PREPARED BY:	G B Spell	REVIEWED BY:	L Ove	rn	
SCALE	R	EVISIONS		INIT.	DATE	
N.T.S.						Docu 96367
						CYDD

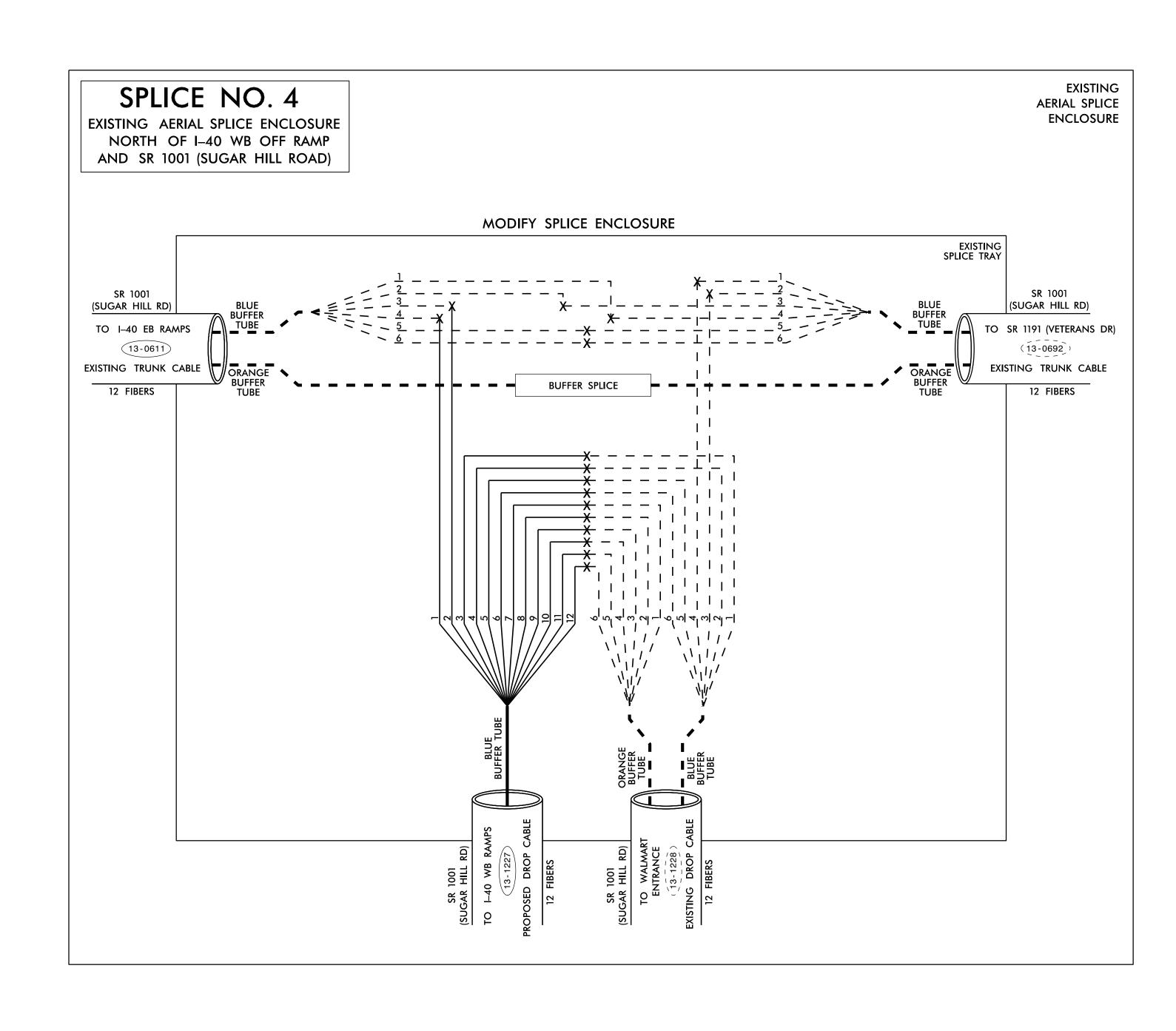
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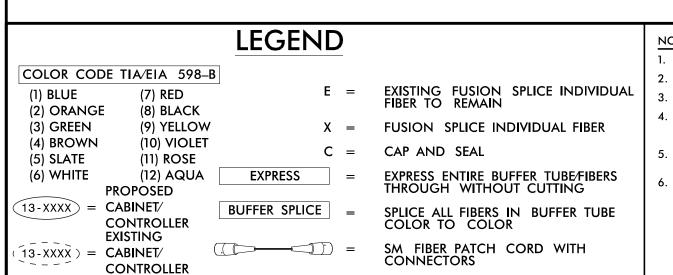


Signals\*Design\*ITS and SCP Design\*Cable Routing\*U-5818 scp7 cr

PROJECT REFERENCE NO. U-5818 SCP-8







UNUSED FIBERS AND/OR BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.

INCLUDE ON THE COVER OF SPLICE TRAY THE FOLLOWING INFORMTION (REFERENCE STANDARD SPECIFICATIONS SECTION 1731):

SPLICE LOCATION DATE COMPANY NAME NAME OF INDIVIDUAL PERFORMING THE SPLICE

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY, TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (ITEMS A–D) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS



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Stantec Consulting Services Inc. 801 Jones Franklin Road-Suite 300 Raleigh, NC 27606

750 N.Greenfield Pkwy,Garner,NC 27529

N.T.S.

SR 1001 (Sugar Hill Road)

FINAL DESIGN

Fiber Optic Splice Details

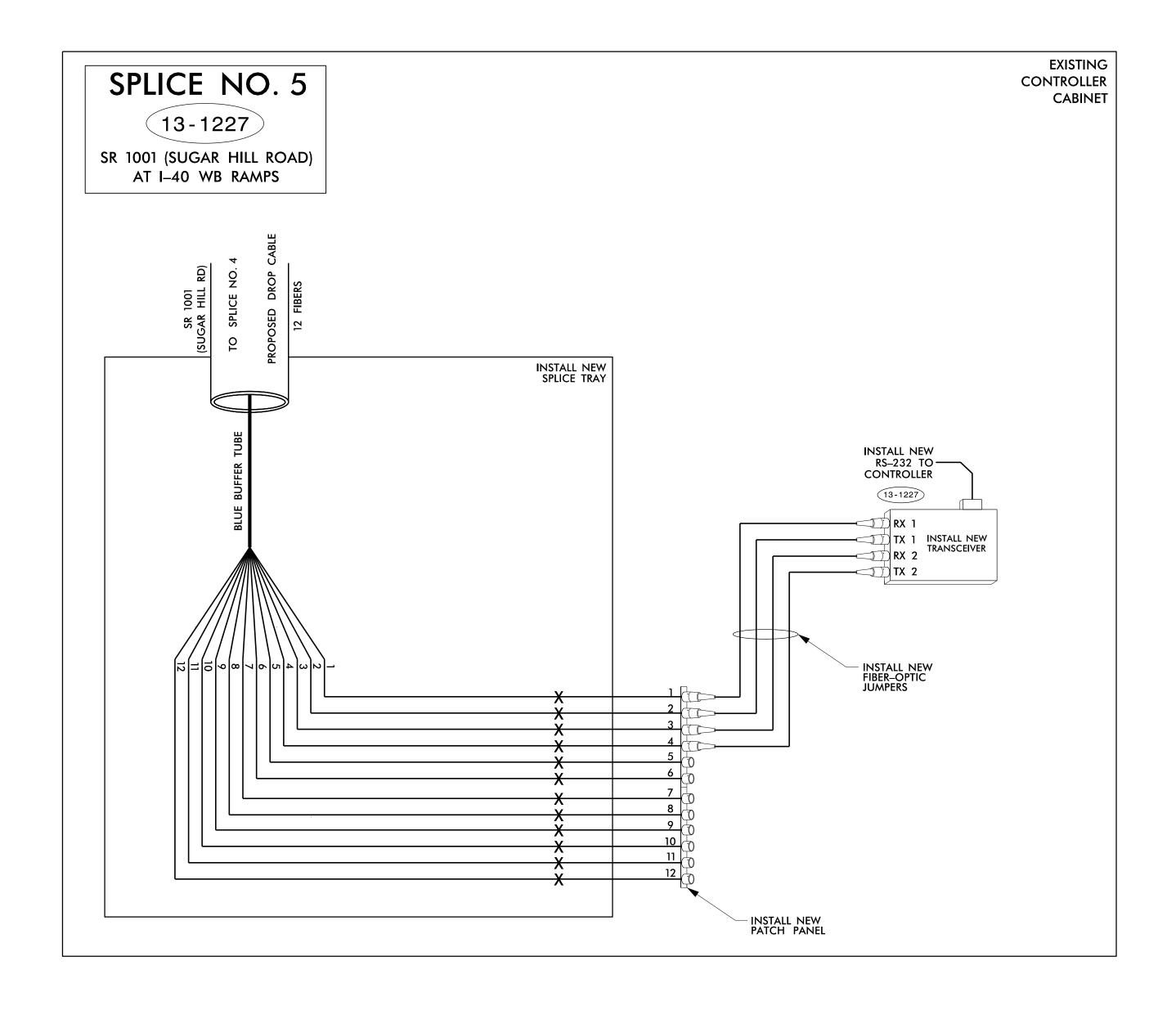
Division 13 McDowell County Mario
PLAN DATE: February 2019 REVIEWED BY: E D Harris PREPARED BY: G B Spell REVIEWED BY: L Overn INIT. DATE REVISIONS

SEAL 045933

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

2/6/2019

PROJECT REFERENCE NO. U-5818



## LEGEND COLOR CODE TIA/EIA 598-B (8) BLACK X = FUSION SPLICE INDIVIDUAL FIBER (9) YELLOW (10) VIOLET C = CAP AND SEAL(11) ROSE EXPRESS ENTIRE BUFFER TUBE/FIBERS THROUGH WITHOUT CUTTING (12) AQUA PROPOSED 13 - XXXX = CABINET/ CONTROLLER EXISTING

SM FIBER PATCH CORD WITH CONNECTORS

- 1. UNUSED FIBERS AND/OR BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
- CONTRACTOR TO FURNISH SELF HEALING RING TYPE TRANSCEIVERS.
- NOTIFY THE NCDOT DIVISION 13 TRAFFIC ENGINEER ANNA HENDERSON PE, AT 828–251–6171 FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE CLOSED LOOP SYSTEM COMMUNICATIONS CABLE. NOTIFY THE DIVISION TRAFFIC ENGINEER AFTER ALL WORK IS NOT COMPLETE UNTIL THE CLOSED LOOP SYSTEM IS BACK UP AND OPERATIONAL AFTER FINAL PHASE OF CONSTRUCTION.
- 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.
- INCLUDE ON THE COVER OF SPLICE TRAY THE FOLLOWING INFORMTION (REFERENCE STANDARD SPECIFICATIONS SECTION 1731):

PRIOR TO INSTALLING THE COVER ON THE SPLICE TRAY, TAKE A DIGITAL PHOTOGRAPH SHOWING THE SPLICE TRAY AND INFORMATION SHOWN ABOVE (ITEMS A–D) AND SUBMIT PHOTOGRAPH ALONG WITH OTDR TEST RESULTS



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## SR 1001 (Sugar Hill Road)

Fiber Optic Splice Details

FINAL DESIGN

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ision	13	McDowell	County	Marion
N DATE:	Februar	y 2019	REVIEWED BY:	E D Harris
ARED BY.	G D C	n o 1 1	REVIEWED BY.	I Overn

G. Signals Management		Division 13 McDowell County			Marion				
		PLAN DATE:	Febr	uary	2019	REVIEWED BY:	E D	Har	ris
750 N.Greenfield Pkwy,Garner,NC 27529		PREPARED BY:	G	B Spe	ell	REVIEWED BY:	L Overn		'n
	SCALE		REVIS	SIONS			INIT	•	DATE
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(13-XXXX) = CABINET/ CONTROLLER

(2) ORANGE

(3) GREEN

(4) BROWN

(5) SLATE

(6) WHITE

SPLICE LOCATION DATE COMPANY NAME NAME OF INDIVIDUAL PERFORMING THE SPLICE