_								PROJECT REFERENCE	NO. SHEET NO
1	INSTALL 3-WIRE COPPER FEEDER CONDUCTORS	34	INSTALL CABINET FOUNDATION	63	BOND RISER TO POLE GROUND			U-6202	SCP. 1
2	INSTALL ETHERNET CABLE	35	INSTALL CCTV CAMERA POLE MOUNTED CABINET	64	BOND MESSENGER CABLE TO POLE GROUND				
$\sqrt{3}$	EXISTING ETHERNET (OR COAX) CABLE	36	INSTALL CCTV CAMERA ASSEMBLY	65	INSTALL HEAT SHRINK TUBING RETROFIT KIT	5.0	LEGEND	AAALINIICATIONIS CAI	DIE
4	INSTALL SMFO CABLE	37	INSTALL CCTV CAMERA WOOD POLE	66	INSTALL MOLDABLE DUCT SEAL	—— F O	EXISTING COMMUNICA		BLE
$\overline{\wedge}$	EXISTING SMFO CABLE	38	INSTALL CCTV CAMERA METAL POLE AND FOUNDATION	67		REN	EXISTING COMMUNICA	TIONS CABLE TO B	BE REMOVED
$\overline{\wedge}$							NEW AERIAL GUY ASSE	MBLY	
<u>/6\</u>	INSTALL FIBER OPTIC DROP CABLE ASSEMBLY	39	INSTALL STANDARD (ELECTRICAL) JUNCTION BOX	68	REMOVE TEMPORARY YAGI ANTENNA		EXISTING CONDUIT		
<u></u>	INSTALL TRACER WIRE	40A	INSTALL OVERSIZED JUNCTION BOX	69	ABANDON EXISTING CONDUIT	—— DD	NEW DIRECTIONAL DRI	LED CONDUIT	
8	TRENCH	40B	INSTALL SPECIAL OVERSIZED JUNCTION BOX (36" x 24" x 24")			NEW		EXIS	STING
9	INSTALL PVC CONDUIT	41	REMOVE EXISTING JUNCTION BOX			0	OVERSIZED JUNCTION WOOD POLE	BOX	•
(10)	INSTALL RIGID, GALVANIZED STEEL CONDUIT	42	INSTALL WOOD POLE			(S)	AERIAL SPLICE ENCLOSU	JRE (S)	
(11)	INSTALL RIGID, GALVANIZED STEEL RISER WITH WEATHERHEAD	43	REMOVE EXISTING WOOD POLE			S	UNDERGROUND SPLICE ENC	CLOSURE ((s)
(12)	INSTALL RIGID, GALVANIZED STEEL RISER WITH FIBER OPTIC CABLE SEAL	44	INSTALL AERIAL GUY ASSEMBLY				METAL POLE CCTV ASSEMBLY	• 	
						(—	STANDARD GUY ASSEM	•	
	INSTALL OUTER-DUCT POLYETHYLENE CONDUIT	45	INSTALL STANDARD GUY ASSEMBLY			\bigcirc	SIDEWALK GUY ASSEMI CABLE STORAGE RACKS (SNOV		•
(13A)	INSTALL HEAT SHRINK TUBING RETROFIT KIT	46	INSTALL SIDEWALK GUY ASSEMBLY				SIGNAL/EQUIPMENT CABI	•	
(14)	INSTALL POLYETHYLENE CONDUIT	47	INSTALL MESSENGER CABLE			S	SPLICE CABINET		s_
15	DIRECTIONAL DRILL CONDUIT	48A	REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE			$(\!(\vdash$	FLAT PANEL ANTENNA (SI	NGLE)	(-
(16)	BORE AND JACK CONDUIT	48B	REMOVE EXISTING COMMUNICATIONS CABLE			-1 - -	YAGI ANTENNA (DOUBLE) REPEATER OPERATION	FOR H	
(17)	INSTALL CABLE(S) IN EXISTING CONDUIT	49	BACK PULL EXISTING COMMUNICATIONS CABLE			 (413)	YAGI ANTENNA (SINGL	E)	- - _
(18)	INSTALL CABLE(S) IN NEW CONDUIT	50	INSTALL CELL MODEM AND ANTENNA			(⊌) SP	OMNI ANTENNA SIGNAL POLE		(() () SP
(19)	INSTALL CABLE(S) IN EXISTING RISER	51	INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE			XX-XXXX	SIGNAL INVENTORY NU/		-XXXX
(20)		52A	100 FEET OF CABLE						
	INSTALL CABLE(S) IN NEW RISER		INSTALL DELINEATOR MARKER				ONSTRUCTION NOTE SYMBO		
(21)	INSTALL NEW CONDUIT INTO EXISTING CARINET RASE	52B	INSTALL JUNCTION BOX MARKER			\boxtimes	INDICATES NUMBER OF CABLI	PER CABLE,	
(22)	INSTALL NEW CONDUIT INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	53A	STORE 20 FEET OF COMMUNICATIONS CABLE			XX XX	TWISTED PAIRS PER CABLE, ETO INDICATES NUMBER OF RISER		
23	INSTALL NEW RISER INTO EXISTING CABINET BASE (USE EXISTING CONDUIT STUB-OUTS WHEN AVAILABLE)	53B	STORE 50 FEET OF EACH COMMUNICATIONS CABLE			[XX]	INDICATES DIAMETER OF RISE	R(S)/CONDUIT(S) (I	INCH)
24	INSTALL NEW CONDUIT INTO POLE MOUNTED CABINET	54	LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE		ATTACHMENT POINT:		OF CABLE(S)	NUMBER C FIBERS/TWISTED	
25	INSTALL NEW RISER INTO POLE MOUNTED CABINET	55	LASH CABLE(S) TO EXISTING MESSENGER CABLE		X"/SS DISTANCE ABOVE (IN)/ATTACHMENT POINT			NEW/EXISTIN	G CABLE
26	INSTALL NEW ETHERNET EDGE SWITCH	56	LASH CABLE(S) TO NEW MESSENGER CABLE		YYY REFERENCE POINT ' ' YYY REFERENCE POINT			REMOVE/MOI	
27>	INSTALL NEW FIBER OPTIC TRANSCEIVER	57	MODIFY EXISTING ELECTRICAL SERVICE		X"/SS DISTANCE BELOW (IN)/ATTACHMENT POINT			CONDUIT/RIS	SER
28	INSTALL INTERCONNECT CENTER, PATCH PANEL, JUMPERS AND FUSION SPLICE CABLE IN CABINET	58	INSTALL NEW ELECTRICAL SERVICE	F	SS" REFERENCE LOCATION S = FRONT SIDE OF POLE		NUMBER	DIAMETER OF CONDUIT(S) (INCH))
29	INSTALL UNDERGROUND SPLICE ENCLOSURE	59	INSTALL NEW EQUIPMENT CABINET DISCONNECT	[B	BS = BACK SIDE OF POLE	MoLiv	DOCUMENT I	NOT CONSIDERE	D FINAL
30	INSTALL AERIAL SPLICE ENCLOSURE	60	BOND TRACER WIRE TO EQUIPMENT		Plans Prepared for:		·	**********	SEAL
31>	MODIFY EXISTING INTERCONNECT CENTER /SPLICE ENCLOSURE	61	GROUND BUS DO NOT BOND TRACER WIRE TO		NO DILLY UTO SECTION OF THE SECTION		LEGEND AND CONSTRUCTION NOTES	AO TH	ESS ION IN
$\langle 32 \rangle$	INSTALL POLE MOUNTED SPLICE CABINET	62	EQUIPMENT GROUND BUS BOND RISER AND MESSENGER CABLE		A land of the same	Division 3		ington ()	SEAL 31464
\sim			TO POLE GROUND	HNTB NOR 343 F S	RTH CAROLINA, P.C. Six Forks Road. Suite 200 SCALE		July 2023 REVIEWED BY: J.A. Wa G.D. Berry REVIEWED BY: N.R. Sim REVISIONS INIT.	mons	R. SIMMORE
33	INSTALL BASE MOUNTED SPLICE CABINET		HNTB	Raleigh, NC Licen (919) 54	RTH CAROLINA, P.C. Six Forks Road, Suite 200 North Carolina 27609 SCALE No: C-1554 46-8997		ETTOTORO INTI-	<u>Matasha R Sin</u> F6DA889GNA45ûRE	
								CADD Filename: U	J6202_SCP-01.dgr

PROJECT REFERENCE NO. SHEET NO. U-6202 SCP. 2

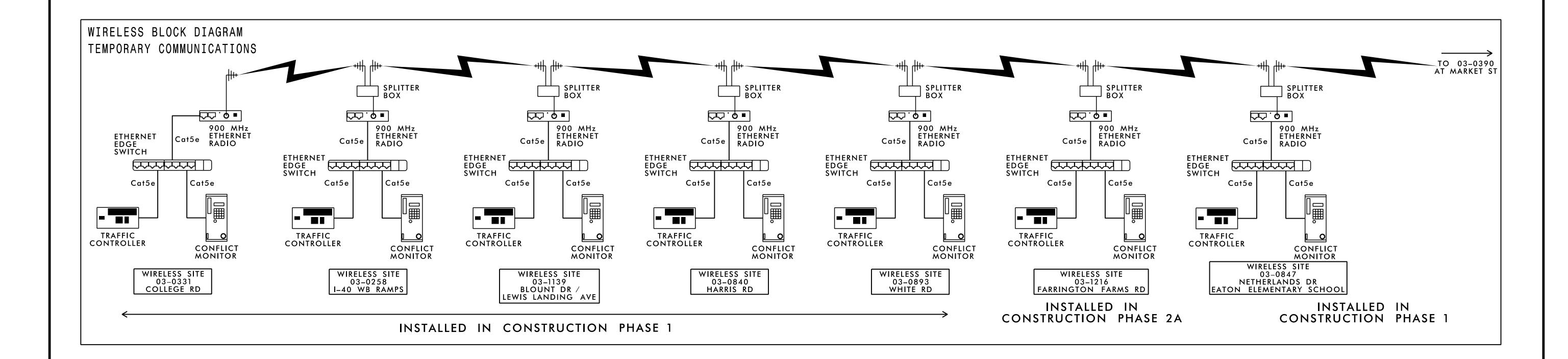
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UNLESS ALL SIGNATURES COMPLETED

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SEAL 031464

CADD Filename: U6202 SCP-02.dgn



COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington
Plan Date: July 2023 Reviewed By: J.A. Wagner

750 N. Greenfield Pkwy., Garner, NC 27529 PREPARED BY: G.D. Berry Reviewed By: N.R. Simmons

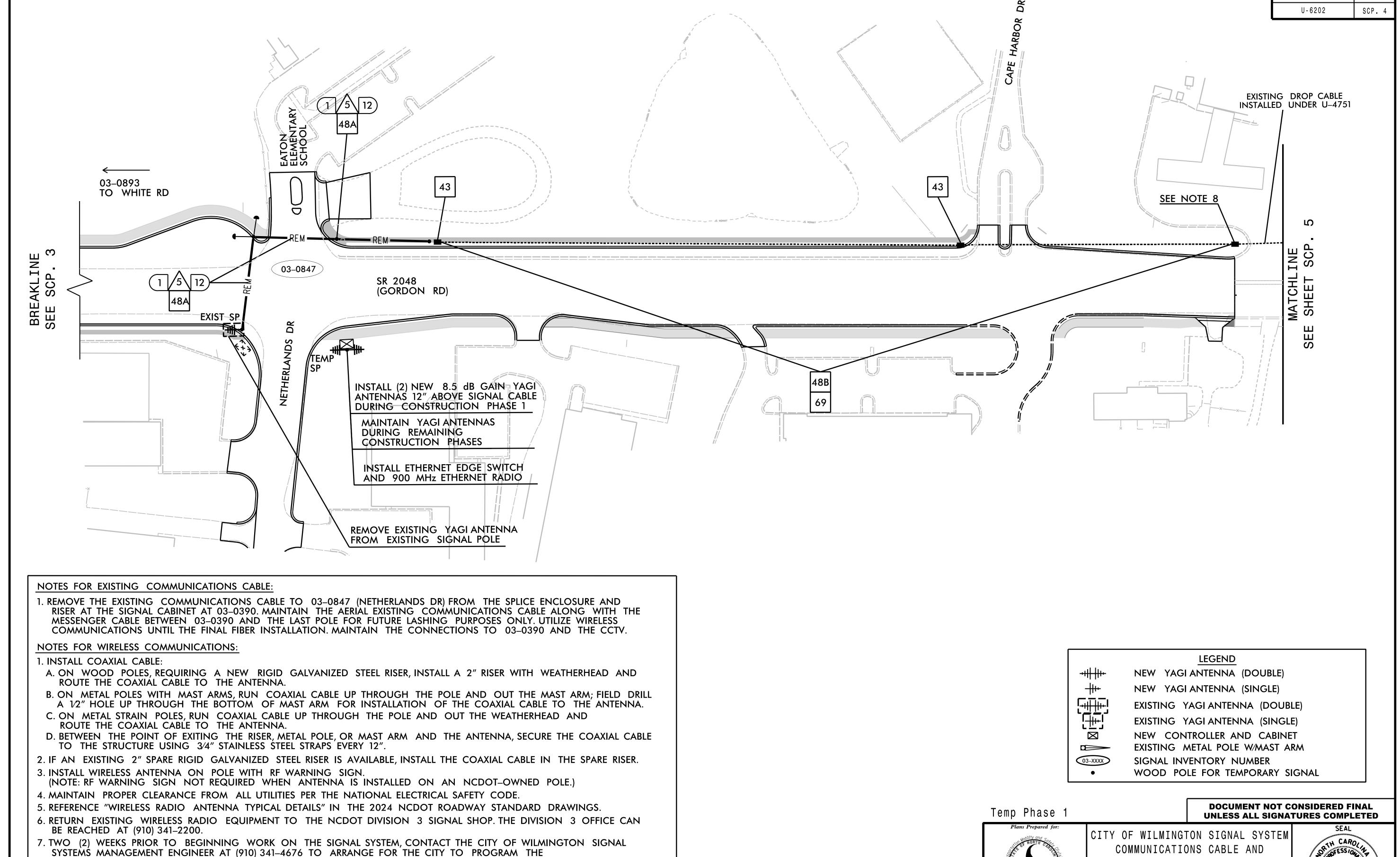
O SCALE Revisions INIT. Date

CITY OF WILMINGTON SIGNAL SYSTEM

Temp Phases 1 and 2A

N/A

PROJECT REFERENCE NO. REMOVE EXISTING YAGI ANTENNA U-6202 FROM EXISTING SIGNAL POLE INSTALL ETHERNET EDGE SWITCH AND 900 MHz ETHERNET RADIO REMOVE EXISTING YAGI ANTENNAS INSTALL NEW 8.5 dB GAIN YAGI FROM EXISTING METAL POLE MAST ARM ANTENNA 12" ABOVE SIGNAL CABLE **DURING CONSTRUCTION PHASE 1** MAINTAIN YAGI ANTENNA DURING REMAINING CONSTRUCTION PHASES INSTALL ETHERNET EDGE SWITCH AND 900 MHz EAKLINE E BELOW ETHERNET RADIO EXIST SP SR 2048 (GORDON RD) **EXIST SP** 03–1139 BRI SEI SR 2048 (GORDON RD) 03-0331 03-0258 INSTALL (2) NEW 8.5 dB GAIN YAGI ANTENNAS 12" ABOVE SIGNAL CABLE TEMP SP **DURING CONSTRUCTION PHASE 1** MAINTAIN YAGI ANTENNAS DURING REMAINING CONSTRUCTION PHASES INSTALL (2) NEW 8.5 dB GAIN YAGI ANTENNAS 12" ABOVE 1-40 OFF SIGNAL CABLE DURING OF CONSTRUCTION PHASE 1 INSTALL ETHERNET EDGE SWITCH AND 900 MHz ETHERNET RADIO MAINTAIN YAGI ANTENNAS DURING REMAINING CONSTRUCTION PHASES SR 1328 (WHITE RD) 4 **LEGEND** SCP NEW YAGI ANTENNA (DOUBLE) REMOVE EXISTING YAGI ANTENNAS **NEW YAGI ANTENNA (SINGLE)** FROM EXISTING SIGNAL POLE EXISTING YAGI ANTENNA (DOUBLE) EXISTING YAGI ANTENNA (SINGLE) SR 2048 INE SR 2048 03–0840 (GORDON RD) (GORDON RD) NEW CONTROLLER AND CABINET K AB AB EXISTING METAL POLE W/MAST ARM 0 **EXIST SP** 03-XXXX SIGNAL INVENTORY NUMBER WOOD POLE FOR TEMPORARY SIGNAL BREAKL Ш B S REMOVE YAGI ANTENNA FROM NOTES FOR EXISTING COMMUNICATIONS CABLE: EXISTING SIGNAL POLE 1. REMOVE ALL EXISTING COMMUNICATIONS CABLE FROM INSIDE THE CONTROLLER CABINET AND THE RISER ASSEMBLY. LEAVE RISER ASSEMBLY IN PLACE. |INSTALL (2) NEW 8.5 dB GAIN YAGI ANTENNÀS 12" ABOVE SIGNAL CABLE INSTALL (2) NEW 8.5 dB GAIN YAGI NOTES FOR WIRELESS COMMUNICATIONS: DURING CONSTRUCTION PHASE 1 ANTENNÀS 12" ABOVE SIGNAL CABLE 1. INSTALL COAXIAL CABLE: DURING CONSTRUCTION PHASE 1 A. ON WOOD POLES, REQUIRING A NEW RIGID GALVANIZED STEEL RISER, INSTALL A 2" RISER WITH WEATHERHEAD AND MAINTAIN YAGI ANTENNAS DURING ROUTE THE COAXIAL CABLE TO THE ANTENNA. MAINTAIN YAGI ANTENNAS DÜRING REMAINING CONSTRUCTION PHASES REMAINING CONSTRUCTION PHASES 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. INSTALL ETHERNET EDGE SWITCH C. ON METAL STRAIN POLES, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE WEATHERHEAD AND AND 900 MHz ETHERNET RADIO ROUTE THE COAXIAL CABLE TO THE ANTENNA. INSTALL ETHERNET EDGE SWITCH D. BETWEEN THE POINT OF EXITING THE RISER, METAL POLE, OR MAST ARM AND THE ANTENNA, SECURE THE COAXIAL CABLE AND 900 MHz ETHERNET RADIO TO THE STRUCTURE USING 3/4" STAINLESS STEEL STRAPS EVERY 12". 2. IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER. 3. INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN. (NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.) **DOCUMENT NOT CONSIDERED FINAL** Temp Phase 1 **UNLESS ALL SIGNATURES COMPLETED** 4. MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE. 5. REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS" IN THE 2024 NCDOT ROADWAY STANDARD DRAWINGS. CITY OF WILMINGTON SIGNAL SYSTEM TH CAROL 6. RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE NCDOT DIVISION 3 SIGNAL SHOP. THE DIVISION 3 OFFICE CAN COMMUNICATIONS CABLE AND SP OF ESSION !! BE REACHED AT (910) 341-2200. CONDUIT ROUTING PLANS 7. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL 031464 SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY TO PROGRAM THE Division 3 New Hanover County Wilmington NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: * CONEER July 2023 REVIEWED BY: J.A. Wagner PLAN DATE: THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE SIGNAL SYSTEMS PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997 MANAGEMENT ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. REVISIONS INIT. DATE WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND FUNCTIONAL CADD Filename: U6202 SCP-03.dqn



NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO:

MANAGEMENT ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY.

AND JUNCTION BOXES WEST OF THIS JUNCTION BOX. FILL HOLES WITH APPROVED MATERIAL. ABANDON EXISTING CONDUITS.

THE PROJECT IP ADDRESS, DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NOTIFY THE SIGNAL SYSTEMS

8. CUT EXISTING 12-FIBER AT THE EXISTING JUNCTION BOX. ENSURE 50' STORAGE REMAINS. REMOVE EXISTING 12-FIBER CABLE

WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND FUNCTIONAL

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997



SCALE

N/A

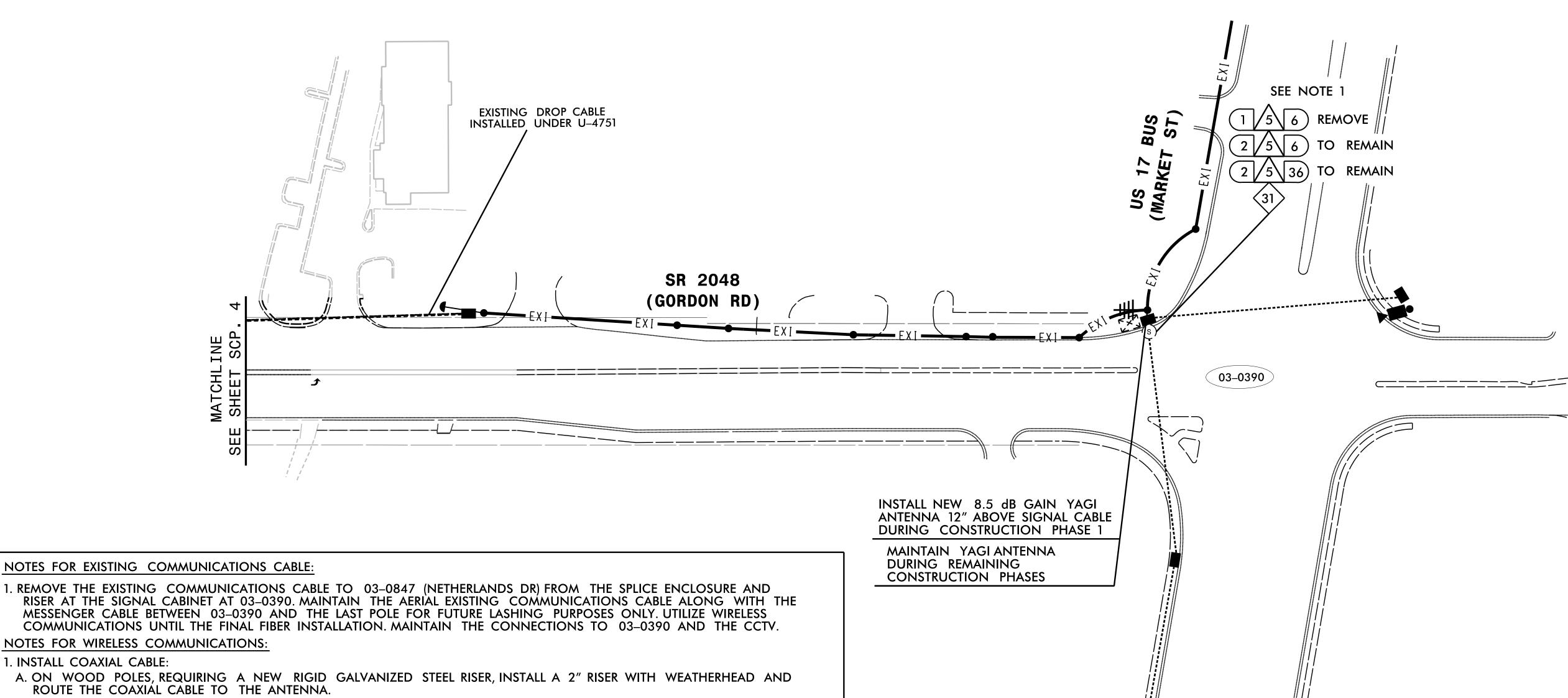
COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington July 2023 REVIEWED BY: J.A. Wagner PLAN DATE: PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons REVISIONS INIT. DATE

OR SOFESSION 031464 ** ACINEE!

PROJECT REFERENCE NO.

CADD Filename: U6202 SCP-04.dqn



1. 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".
- 2. IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER.
- 3. INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN.
- (NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.) 4. MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
- 5. REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS" IN THE 2024 NCDOT ROADWAY STANDARD DRAWINGS.
- 6. RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE NCDOT DIVISION 3 SIGNAL SHOP. THE DIVISION 3 OFFICE CAN BE REACHED AT (910) 341-2200.
- 7. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY 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 SIGNAL SYSTEMS MANAGEMENT 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 FUNCTIONAL.

Temp Phase 1

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
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(919) 546-8997

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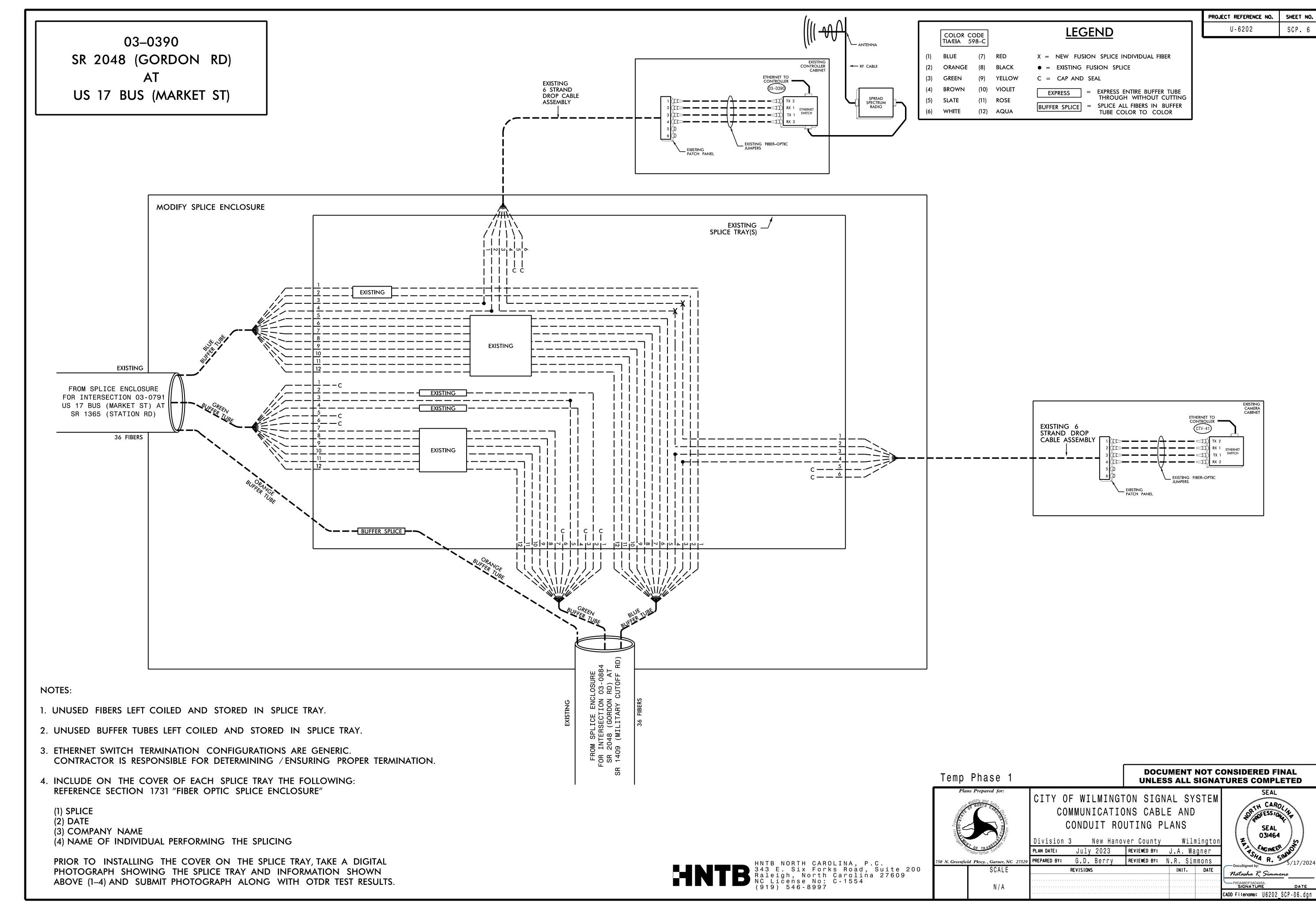
CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington July 2023 REVIEWED BY: J.A. Wagner PLAN DATE: PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons REVISIONS INIT. DATE

OR WESSION 031464

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CADD Filename: U6202 SCP-05.dgn



PROJECT REFERENCE NO. SHEET NO. U-6202 SCP. 7

LEGEND

HHNEW YAGI ANTENNA (DOUBLE)

HHNEW YAGI ANTENNA (SINGLE)

EXISTING YAGI ANTENNA (DOUBLE)

EXISTING YAGI ANTENNA (SINGLE)

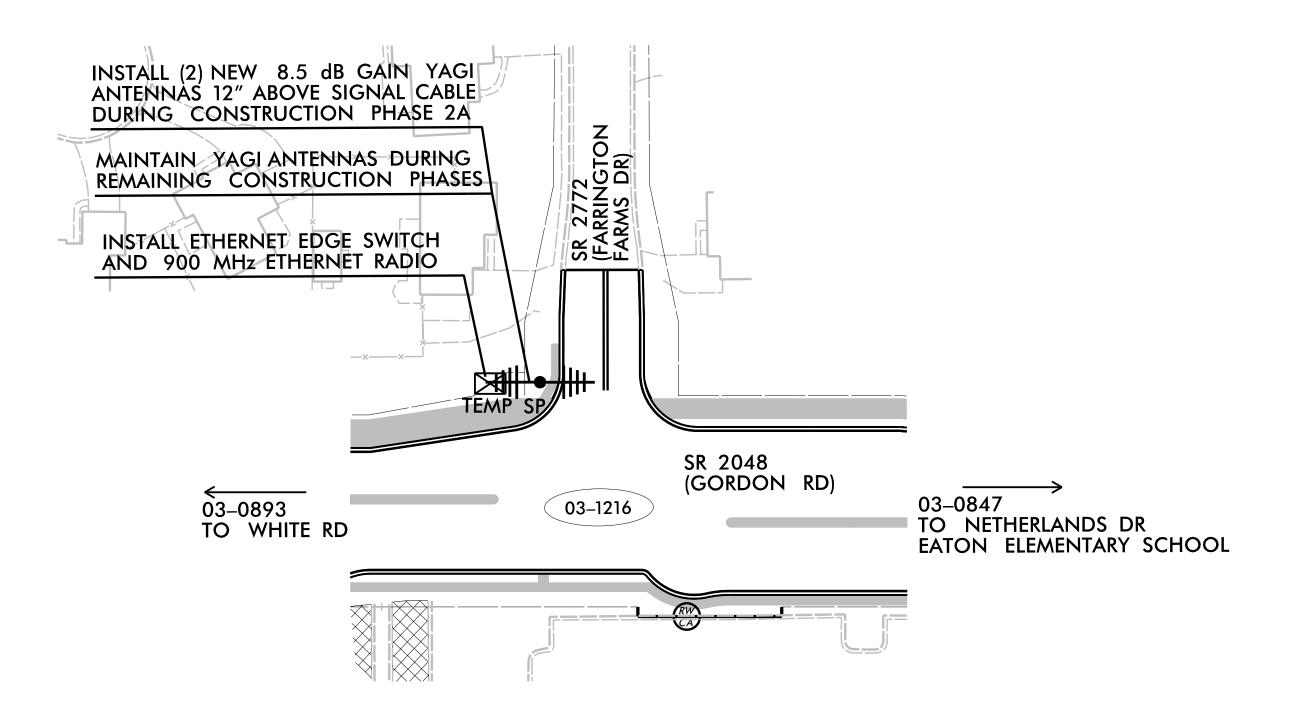
NEW CONTROLLER AND CABINET

EXISTING METAL POLE W/MAST ARM

O3-XXXX

SIGNAL INVENTORY NUMBER

WOOD POLE FOR TEMPORARY SIGNAL

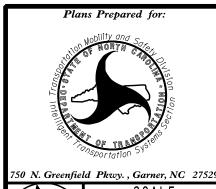


NOTES FOR WIRELESS COMMUNICATIONS:

- 1. 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".
- 2. IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER.
- 3. INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN.
- (NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
- 4. MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
 5. REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS" IN THE 2024 NCDOT ROADWAY STANDARD DRAWINGS.
- 6. RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE NCDOT DIVISION 3 SIGNAL SHOP. THE DIVISION 3 OFFICE CAN BE REACHED AT (910) 341–2200.
- 7. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY 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 SIGNAL SYSTEMS MANAGEMENT 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 FUNCTIONAL.

Temp Phase 2A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



CITY OF WILMINGTON SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington
PLAN DATE: July 2023 REVIEWED BY: J.A. Wagner
PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons
REVISIONS INIT. DATE (

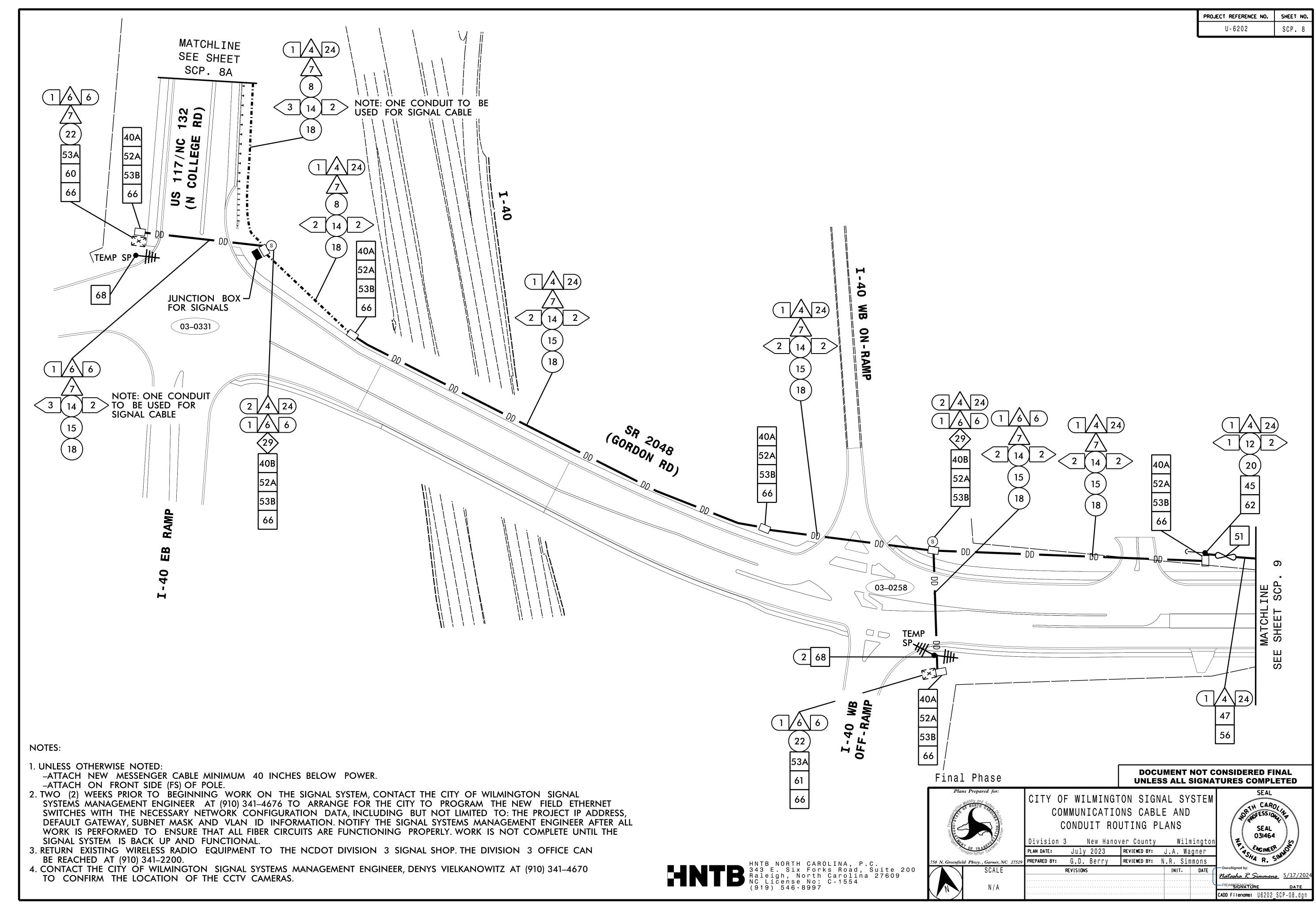
DATE

CADD FILEname: U6202 SCP-07.dq

TH CARO

OR OFESSION

031464



PROJECT REFERENCE NO. U-6202 **ELECTRICAL SERVICE** LOCATION TO BE DETERMINED BY DUKE ENERGY IN FIELD. 58 DRAWING 53A 59 DRAWING BLUEBERRY RD 36 CCTV_1 OFF JUNCTION **BOX FOR** DRAWING 1 SIGNALS NEW ELECTRICAL SERVICE EQUIPMENT METER BASE/ DISCONNECT COMBO PANEL INSTALL 3-WIRE #3 COPPER SERVICE 20 ENTRANCE CONDUCTORS IN NEW 2" RIGID GALVANIZED RISER WITH WEATHERHEAD. INSTALL 2" RAINPROOF CONDUIT HUB ON TOP OF NEW SERVICE METER/DISCONNECT COMBO PANEL INSTALL NEW SERVICE DISCONNECT WITH 1 SINGLE POLE, 15 AMP CIRCUIT BREAKER NOTE: ONE CONDUIT TO BE INSTALL ONE 2" CONDUIT WITH THREE USED FOR SIGNAL CABLE #10 COPPER FEEDER CONDUCTORS TO CCTV EQUIPMENT CABINET DISCONNECT 132 RD) 117/NC COLLEGE DRAWING 2 NEW EQUIPMENT CABINET DISCONNECT 0 **EQUIPMENT** CABINET INSTALL 1 SINGLE POLE, 15 AMP CIRCUIT BREAKER FOR CCTV DISCONNECT - INSTALL ONE 2" CONDUIT WITH THREE #10 COPPER FEEDER CONDUCTORS FROM POLE-MOUNTED METER BASE/DISCONNECT COMBO PANEL INSTALL ONE 1" CONDUIT WITH THREE #12 COPPER FEEDER CONDUCTORS TO CCTV EQUIPMENT CABINET CCTV-1 GPS COORDINATES 34° 16.833′ 52.113′ MATCHLINE **NOTES:** SEE SHEET

SCP. 8

1. UNLESS OTHERWISE NOTED:

-ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.

-ATTACH ON FRONT SIDE (FS) OF POLE. 2. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY 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 SIGNAL SYSTEMS MANAGEMENT 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 FUNCTIONAL.

3. CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341–4670 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS.

4. CONTRACT DUKE ENERGY AT (800) 452-2777 TO ARRANGE FOR ELECTRICAL SERVICE. 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE AVAILABLE FAULT CURRENT INFORMATION FROM THE POWER COMPANY

FOR THE REQUIRED ELECTRICAL SERVICE AND PLACE A "FAULT CURRENT" STICKER INSIDE THE SERVICE DISCONNECT PANEL WITH THE DATE AND AVAILABLE FAULT CURRENT ON THE STICKER.

Final Phase

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

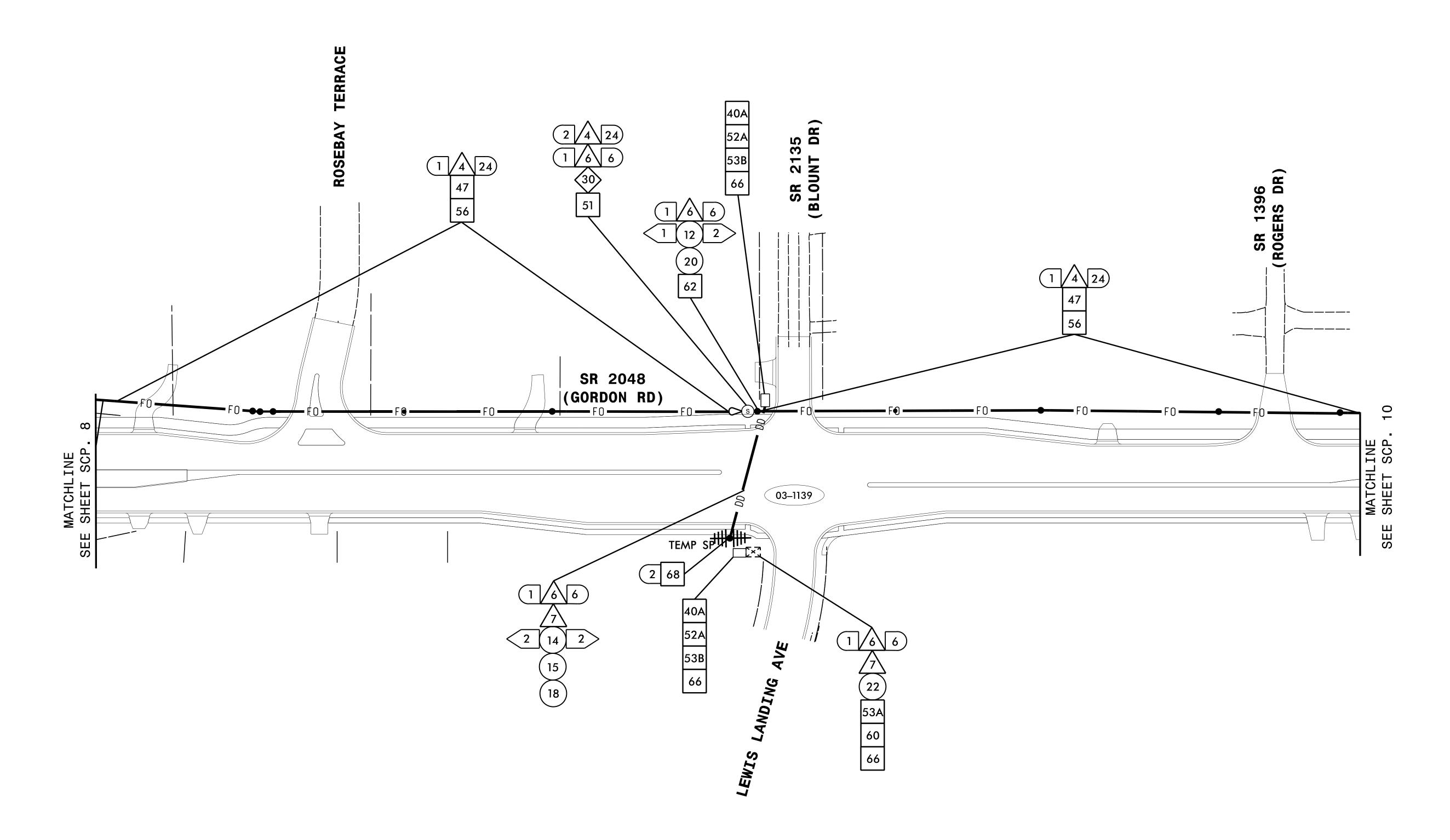
Division 3 New Hanover County Wilmington July 2023 REVIEWED BY: J.A. Wagner REVIEWED BY: N.R. Simmons

PLAN DATE: PREPARED BY: G.D. Berry REVISIONS INIT. DATE N/A

CADD Filename: U6202 SCP-08A.dq

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031464



NOTES:

1. UNLESS OTHERWISE NOTED:

-ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.
-ATTACH ON FRONT SIDE (FS) OF POLE.
2. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY 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. NÓTIFY THE SIGNAL SYSTEMS MANAGEMENT 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 FUNCTIONAL.

3. RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE NCDOT DIVISION 3 SIGNAL SHOP. THE DIVISION 3 OFFICE CAN BE REACHED AT (910) 341-2200.

4. CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341–4670 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS.

Final Phase

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



N/A

CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division	3 New Hanov	er County	Wilm	nington
PLAN DATE:	July 2023	REVIEWED BY:	J.A. Wa	gner
PREPARED BY:	G.D. Berry	REVIEWED BY:	N.R. Sim	mons
	REVISIONS		INIT.	DATE (

CADD Filenome: U6202 SCP-09.dgn

TH CAROL

031464

NOTES:

1. UNLESS OTHERWISE NOTED:

-ATTACH ON FRONT SIDE (FS) OF POLE.

BE REACHED AT (910) 341-2200.

SIGNAL SYSTEM IS BACK UP AND FUNCTIONAL.

-ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.

2. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL

3. RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE NCDOT DIVISION 3 SIGNAL SHOP. THE DIVISION 3 OFFICE CAN

4. CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341–4670 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS.

SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY TO PROGRAM THE NEW FIELD ETHERNET SWITCHES WITH THE NECESSARY NETWORK CONFIGURATION DATA, INCLUDING BUT NOT LIMITED TO: THE PROJECT IP ADDRESS,

WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE

DEFAULT GATEWAY, SUBNET MASK AND VLAN ID INFORMATION. NÓTIFY THE SIGNAL SYSTEMS MANAGEMENT ENGINEER AFTER ALL

U-6202 SCP. 1

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

TH CAROL

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CADD Filenome: U6202 SCP-10.dgn

CITY OF WILMINGTON SIGNAL SYSTEM

COMMUNICATIONS CABLE AND

CONDUIT ROUTING PLANS

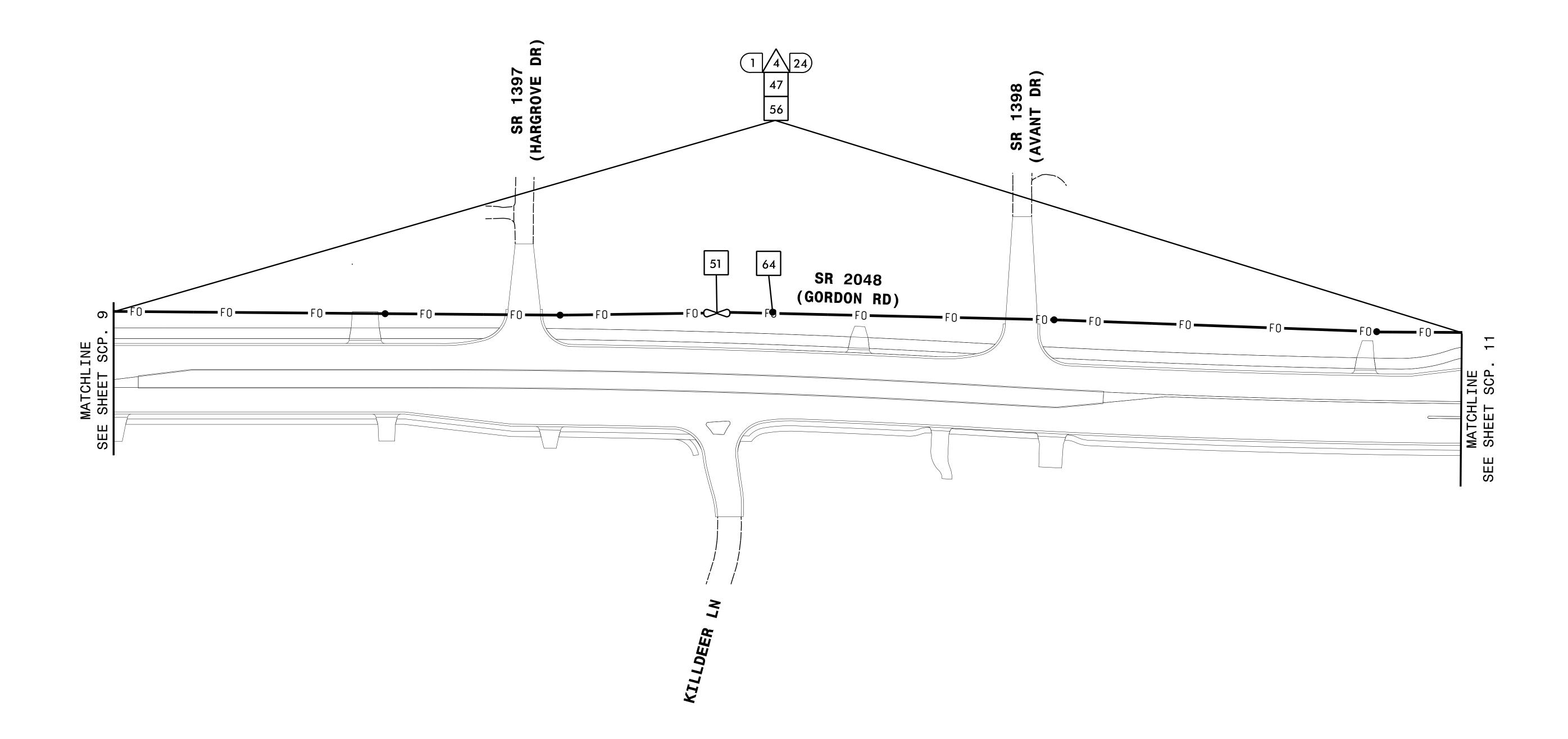
Division 3 New Hanover County Wilmington

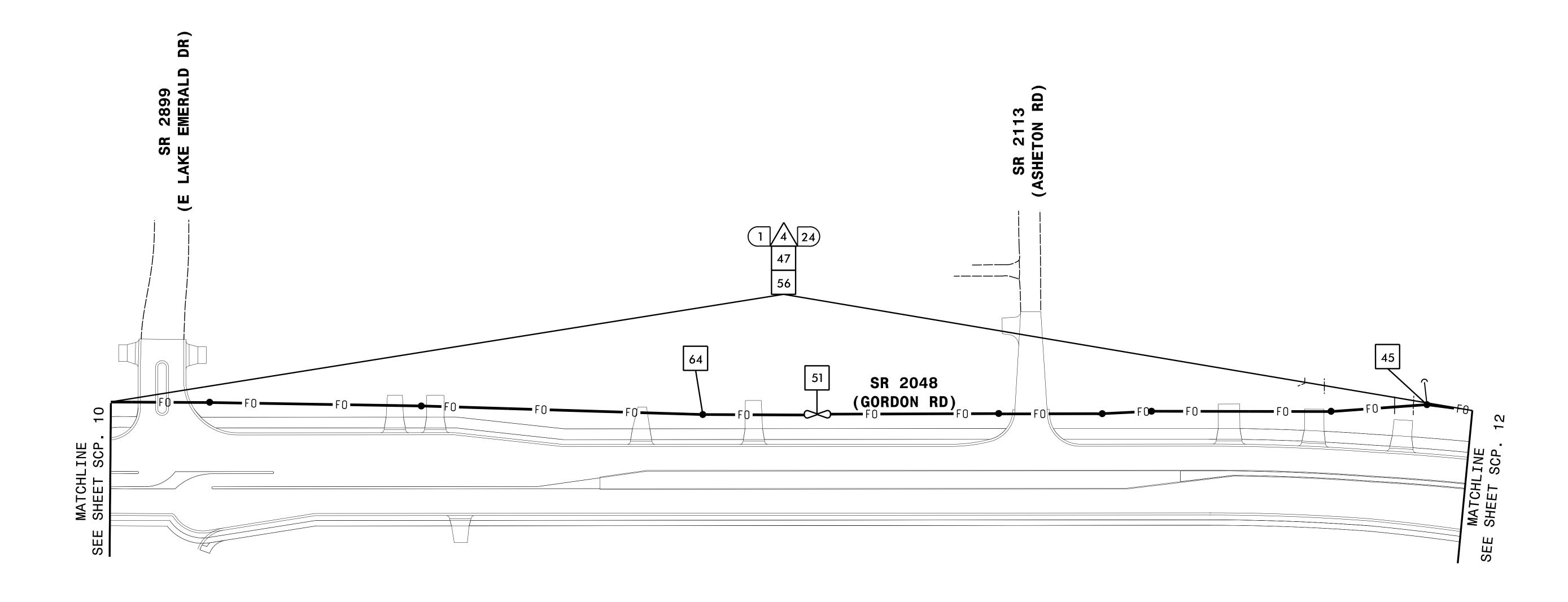
PREPARED BY: G.D. Berry

July 2023 **REVIEWED BY:** J.A. Wagner

REVIEWED BY: N.R. Simmons

Final Phase





NOTES:

1. UNLESS OTHERWISE NOTED: -ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER. -ATTACH ON FRONT SIDE (FS) OF POLE.

2. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY 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. NÓTIFY THE SIGNAL SYSTEMS MANAGEMENT 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 FUNCTIONAL.

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4. CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341–4670 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS.

Final Phase

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TH CAROL

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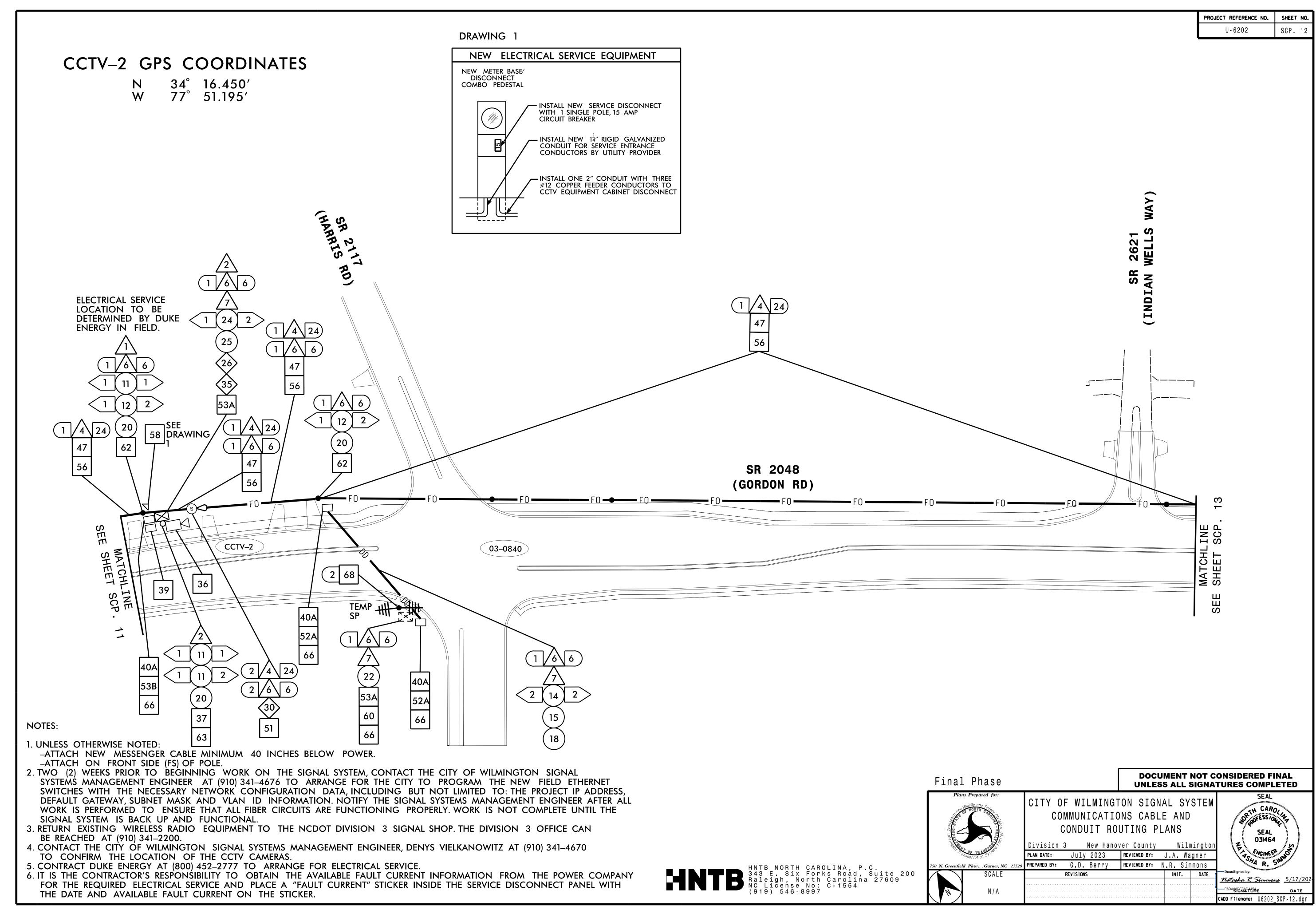


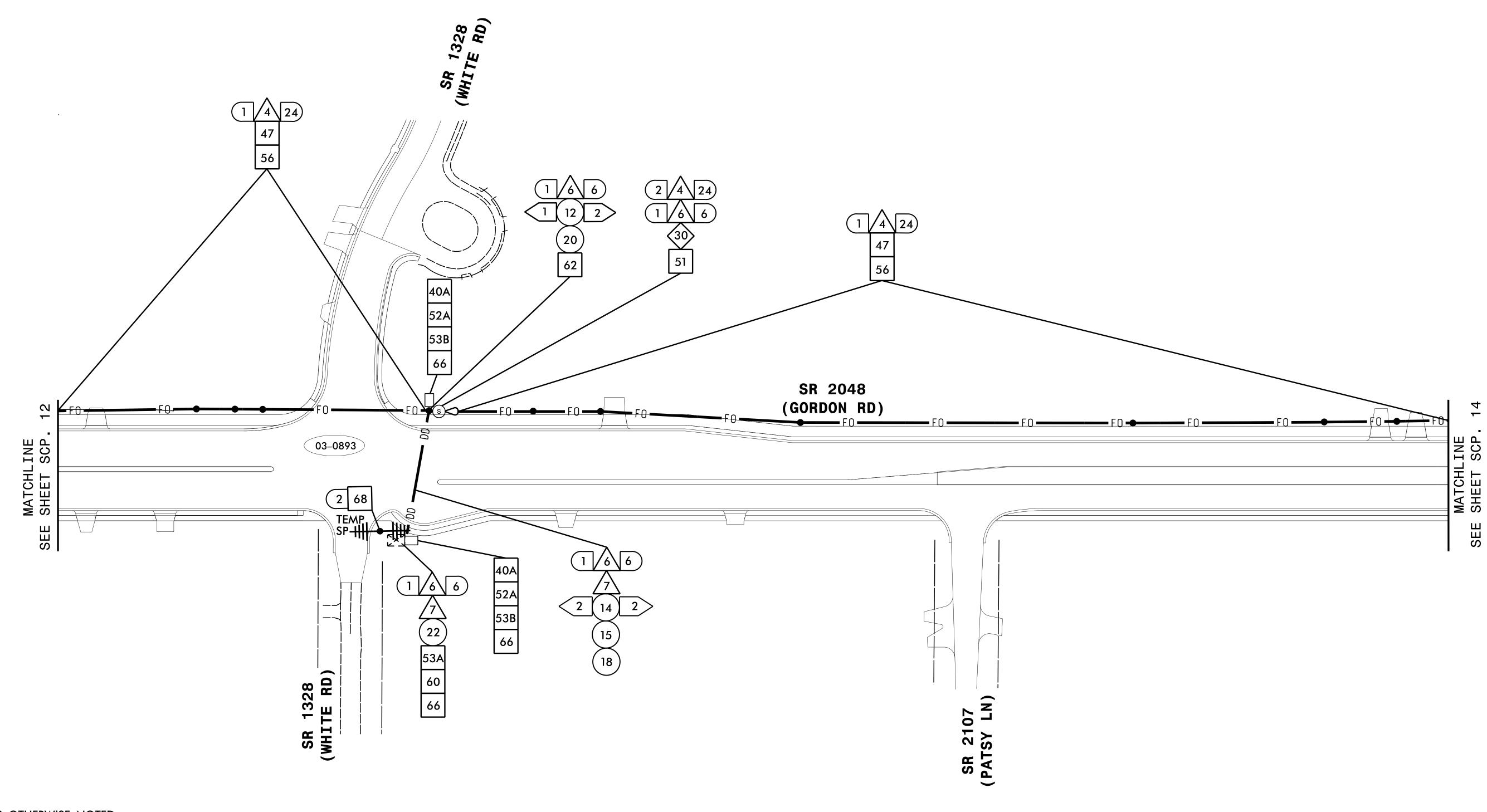
N/A

CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

ivision	3 New Hanov	er County	Wilmington
AN DATE:	July 2023	REVIEWED BY:	J.A. Wagner
EPARED BY:	G.D. Berry	REVIEWED BY:	I.R. Simmons
	REVISIONS		INIT. DATE

Natasha R Simmons 5/17/20 CADD Filename: U6202 SCP-11.dgn





NOTES:

1. UNLESS OTHERWISE NOTED:

-ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.
-ATTACH ON FRONT SIDE (FS) OF POLE.
2. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY 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 SIGNAL SYSTEMS MANAGEMENT ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL FIBER CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE

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4. CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER, DENYS VIELKANOWITZ AT (910) 341–4670 TO CONFIRM THE LOCATION OF THE CCTV CAMERAS.

Final Phase

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

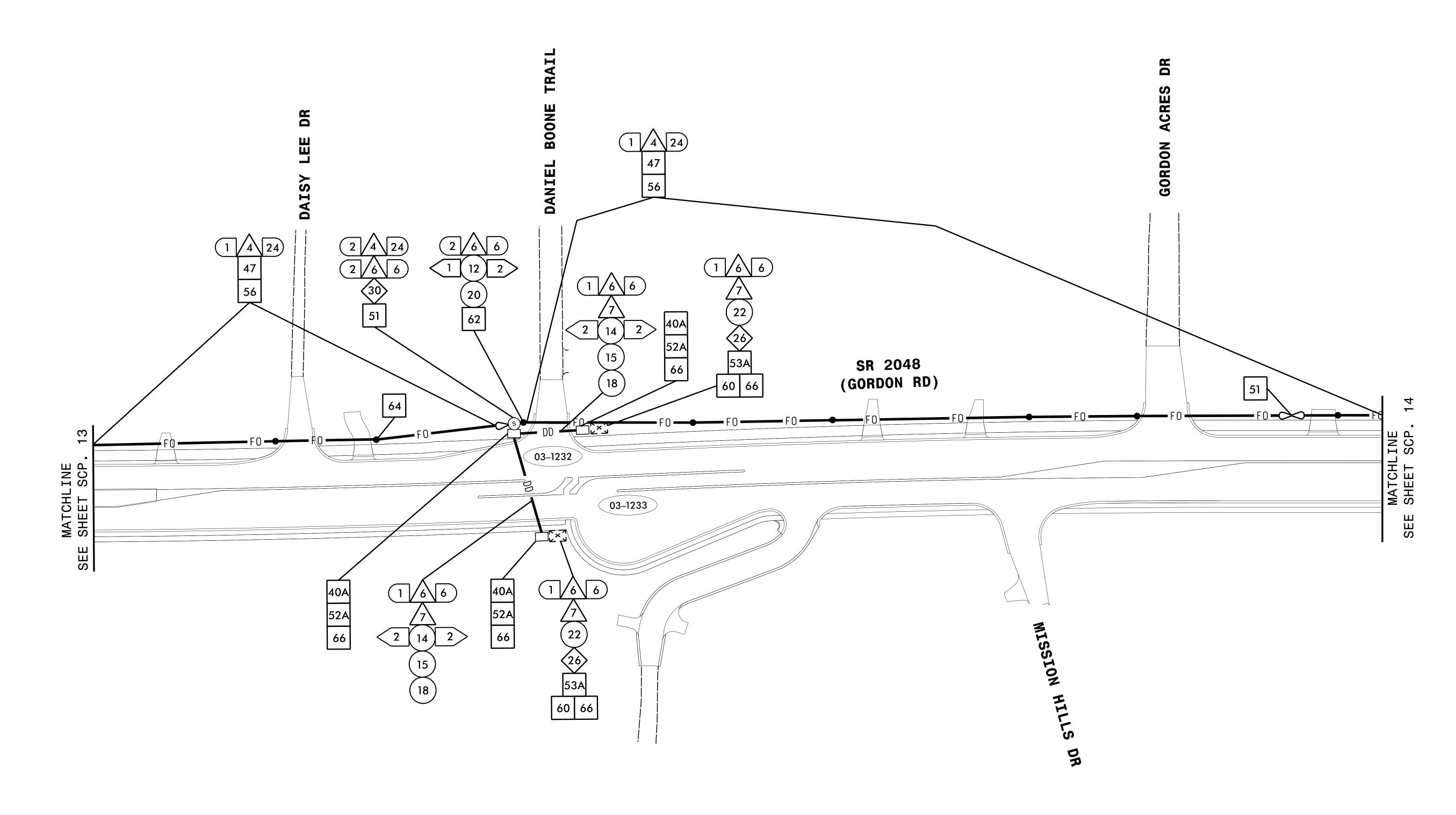
Division	3 New Hano	ver County	Wil	nington
PLAN DATE:	July 2023	REVIEWED BY:	J.A. Wa	ıgner
PREPARED BY:	G.D. Berry	REVIEWED BY:	N.R. Sir	nmons
	REVISIONS		INIT.	DATE

CADD Filename: U6202 SCP-13 dgn

ORIGIFESSION

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U-6202 SCP. 14



NOTES:

1. UNLESS OTHERWISE NOTED:

-ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.

-ATTACH ON FRONT SIDE (FS) OF POLE.

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Final Phase

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



CITY OF WILMINGTON SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLANS

OUNDOIT HOUTING TEANO						
ivision	3 New Hanov	er County	Wilm	nington		
.AN DATE:	July 2023	REVIEWED BY:	J.A. Wa	gner		
REPARED BY:	G.D. Berry	REVIEWED BY:	N.R. Sim	mons		
DEVISIONS INIT DATE					— Docu	

Wagner
immons
Date

Matasha R Simmons

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CADD Filename: U6202 SCP-14.dgn

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HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

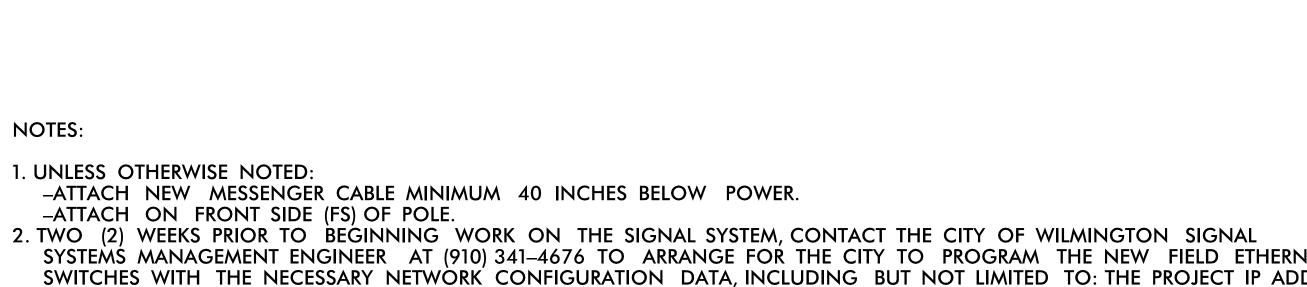
SCALE REVISIONS INIT. DATE

N/A

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MATCHLINE SHEET SCP.

PROJECT REFERENCE NO. U-6202 MATCHL] SHEET 8 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY 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. NÓTIFY THE SIGNAL SYSTEMS MANAGEMENT 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 FUNCTIONAL.

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HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

SR 2048

(GORDON RD)

Final Phase

RD

SR 2270 SORRELL

(WOOD

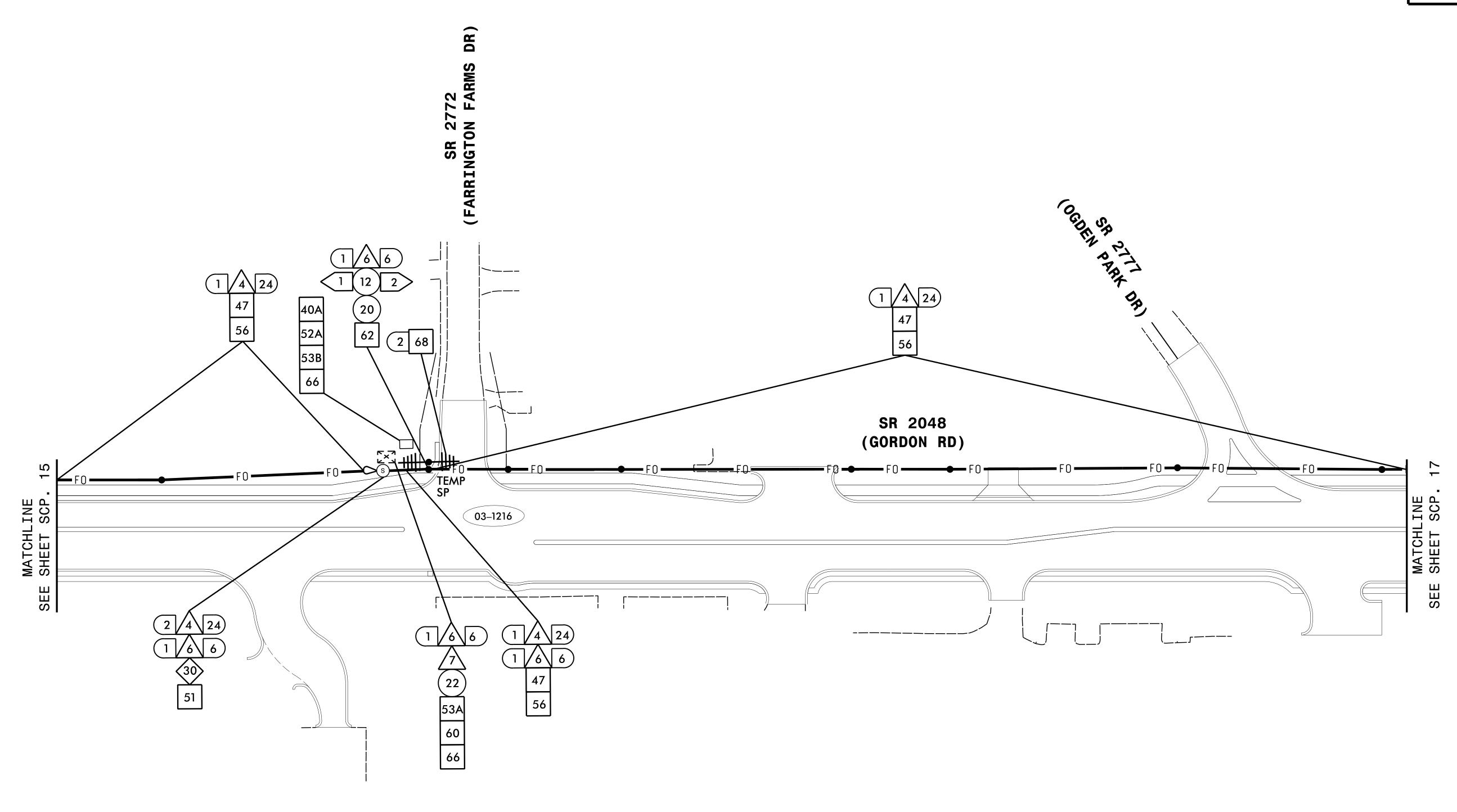
CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND

ORTH CAROL CONDUIT ROUTING PLANS Division 3 New Hanover County Wilmington PLAN DATE: July 2023 REVIEWED BY: J.A. Wagner PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons

REVISIONS

CADD Filenome: U6202 SCP-15.dgn

031464



NOTES:

1. UNLESS OTHERWISE NOTED: -ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER. -ATTACH ON FRONT SIDE (FS) OF POLE.

2. TWO (2) WEEKS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE CITY OF WILMINGTON SIGNAL SYSTEMS MANAGEMENT ENGINEER AT (910) 341–4676 TO ARRANGE FOR THE CITY 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. NÓTIFY THE SIGNAL SYSTEMS MANAGEMENT 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 FUNCTIONAL.

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Final Phase

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED**



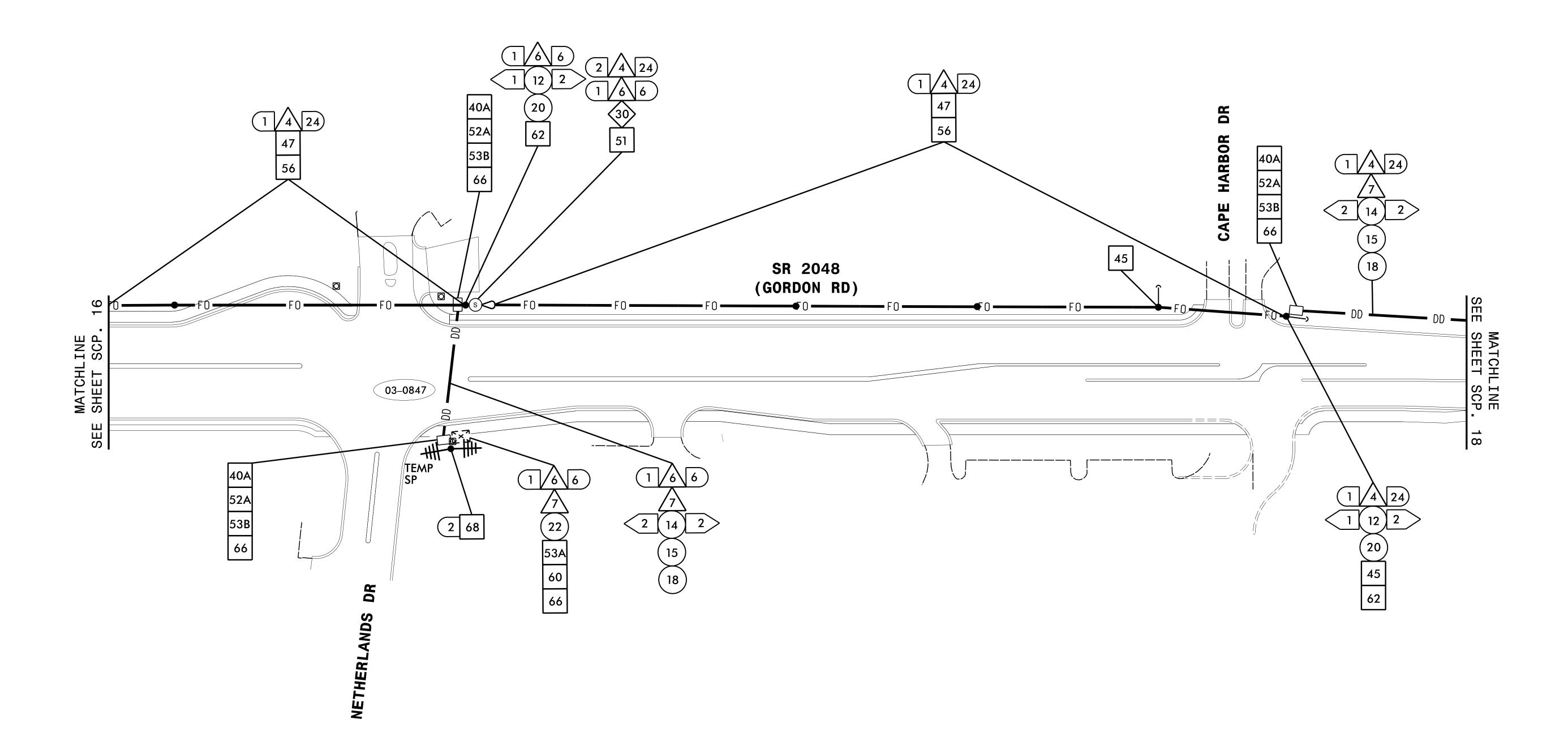
CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division	3 New Hanov	er County	Wilmingtor
PLAN DATE:	July 2023	REVIEWED BY:	J.A. Wagner
PREPARED BY:	G.D. Berry	REVIEWED BY:	N.R. Simmons

REVISIONS INIT. DATE



CADD Filenome: U6202 SCP-16.dgn



NOTES:

1. UNLESS OTHERWISE NOTED:

-ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.

-ATTACH ON FRONT SIDE (FS) OF POLE.

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3. RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE NCDOT DIVISION 3 SIGNAL SHOP. THE DIVISION 3 OFFICE CAN BE REACHED AT (910) 341-2200.

4. USING THE EXISTING 12-FIBER AS A PULL CORD, INSTALL THE PROPOSED 24-FIBER IN THE EXISTING CONDUIT.

Final Phase

DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED**



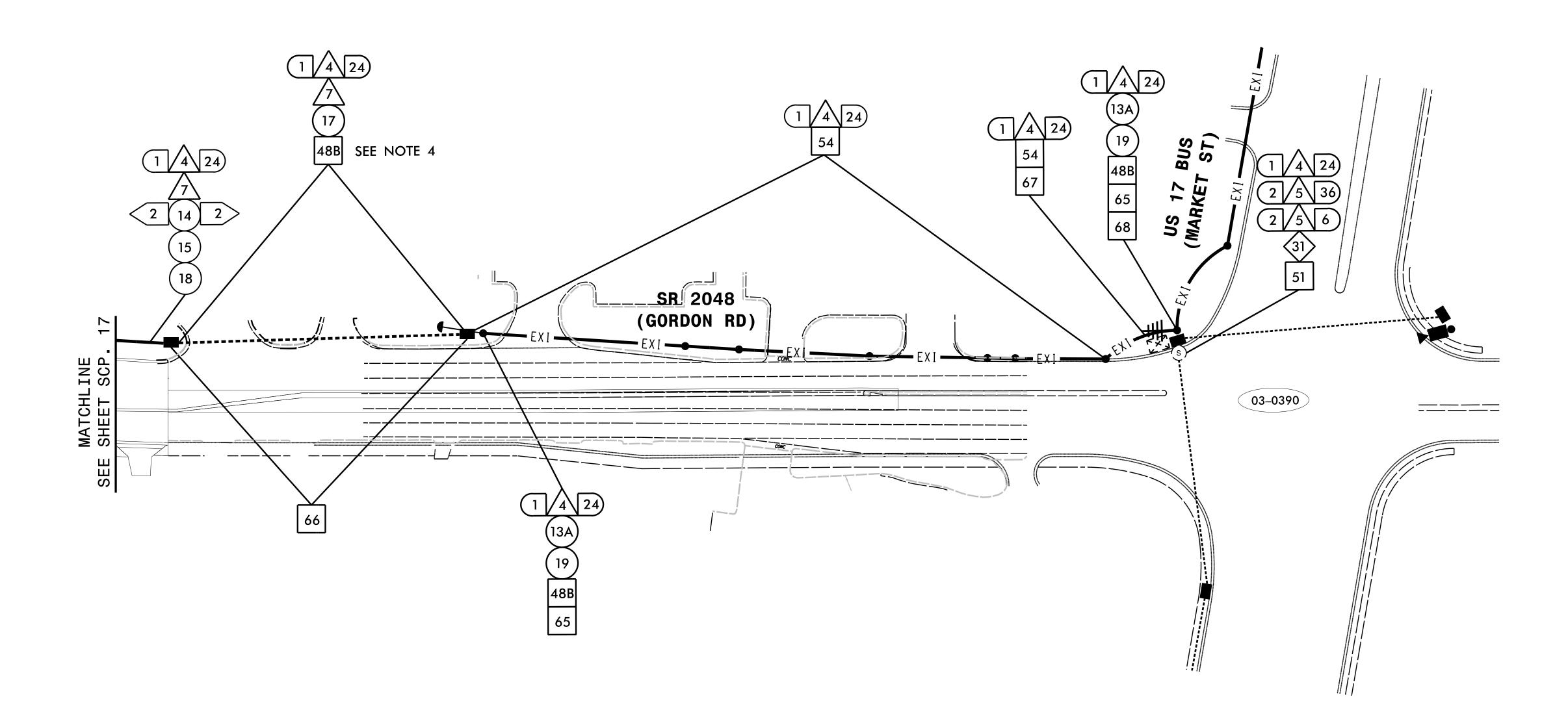
CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division	3 New Hanov	er County	Wilmington
PLAN DATE:	July 2023	REVIEWED BY:	J.A. Wagner
PREPARED BY:	G.D. Berry	REVIEWED BY:	N.R. Simmons

REVISIONS INIT. DATE

CADD Filenome: U6202 SCP-17.dgn

031464



NOTES:

1. UNLESS OTHERWISE NOTED:

-ATTACH NEW MESSENGER CABLE MINIMUM 40 INCHES BELOW POWER.

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Final Phase

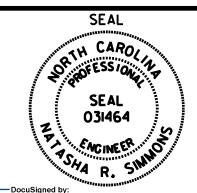
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division	3 New Hanov	er County	Wiln	nington
PLAN DATE:	July 2023	REVIEWED BY:	J.A. Wa	gner
PREPARED BY:	G.D. Berry	REVIEWED BY:	N.R. Sim	nmons
	REVISIONS		INIT.	DATE (

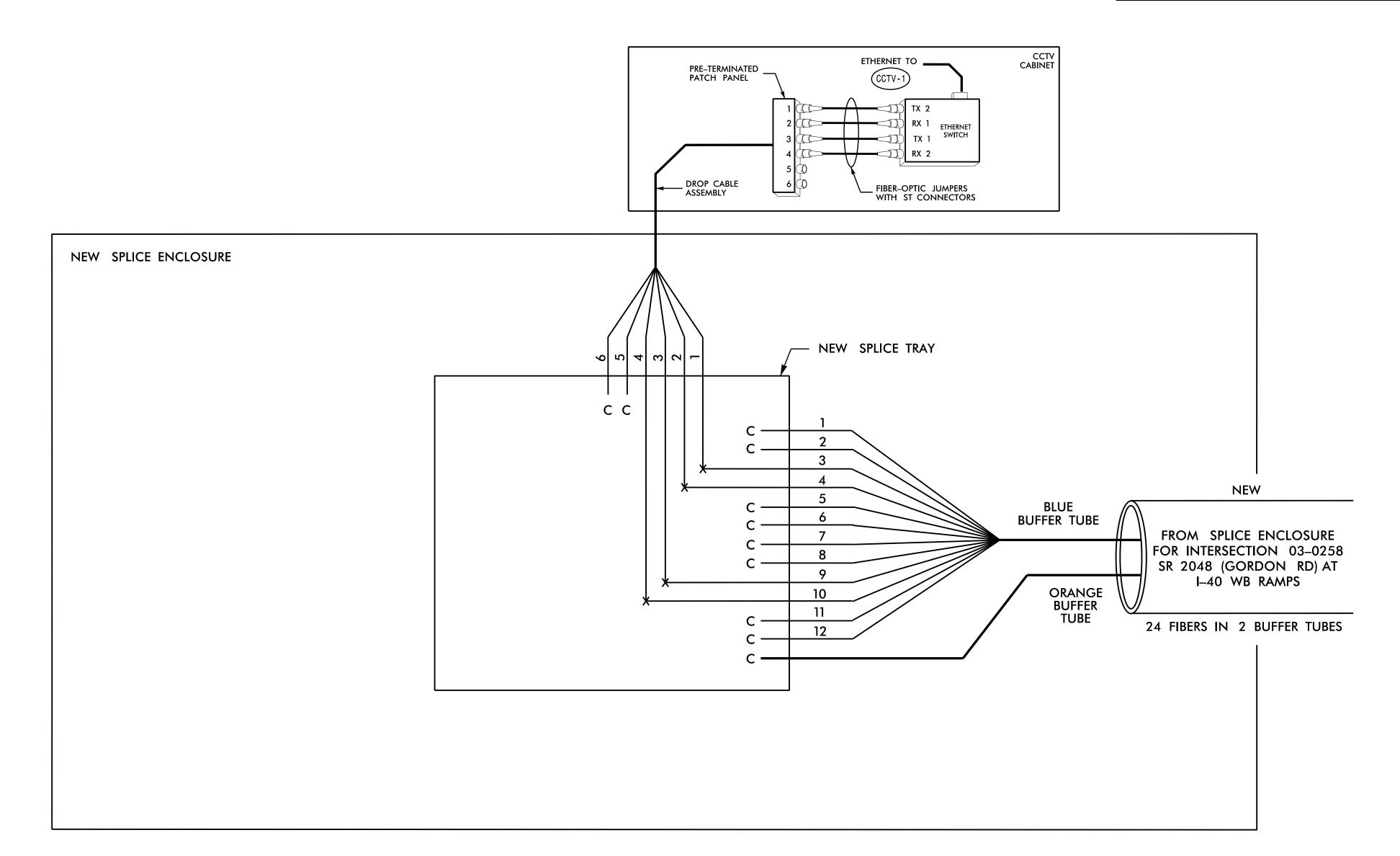


CADD Filenome: U6202 SCP-18.dgn

CCTV-1 NC 132 (N COLLEGE RD)

LEGEND COLOR CODE TIA/EIA 598-C X = NEW FUSION SPLICE INDIVIDUAL FIBER ORANGE (8) BLACK • = EXISTING FUSION SPLICE C = CAP AND SEALEXPRESS = EXPRESS ENTIRE BUFFER TUBE (4) BROWN (10) VIOLET THROUGH WITHOUT CUTTING (5) SLATE

BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER (12) AQUA WHITE TUBE COLOR TO COLOR



NOTES:

- 1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
- 2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
- 3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION.
- 4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

(1) SPLICE (2) DATE

(3) COMPANY NAME

(4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.

U-6202



N/A

CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington PLAN DATE: PREPARED BY: G.D. Berry

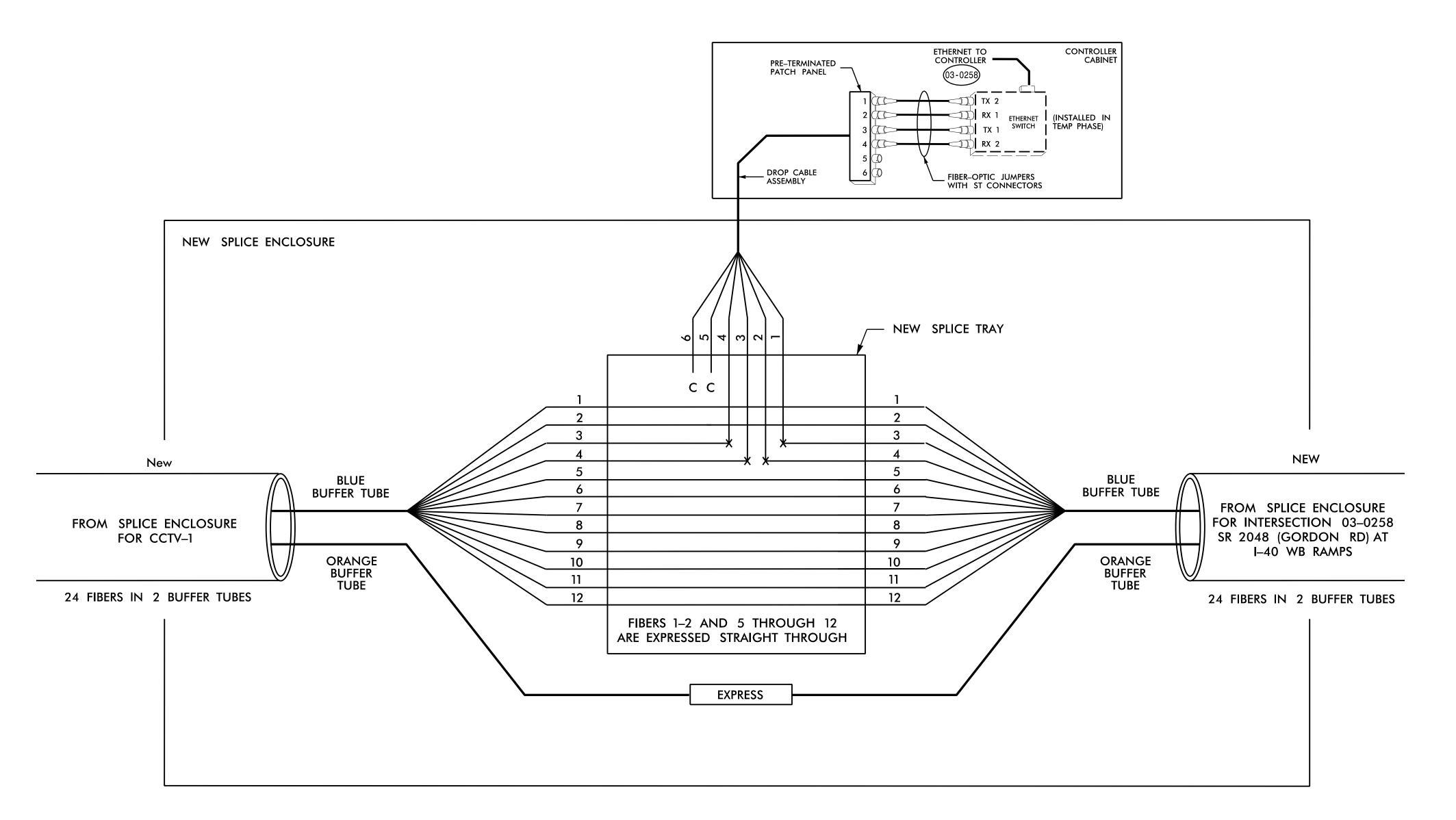
July 2023 **REVIEWED BY:** J.A. Wagner REVIEWED BY: N.R. Simmons REVISIONS

031464

CADD Filename: U6202 SCP-19.dgn

03-0331 SR 2048 (GORDON RD) US 117/NC 132 (N COLLEGE RD)/I-40 EB RAMPS

LEGEND COLOR CODE TIA/EIA 598-C X = NEW FUSION SPLICE INDIVIDUAL FIBER ORANGE • = EXISTING FUSION SPLICE C = CAP AND SEAL(4) BROWN (10) VIOLET = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING (5) SLATE (11) ROSE BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER (12) AQUA WHITE TUBE COLOR TO COLOR



NOTES:

- 1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
- 2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
- 3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION.
- 4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

(1) SPLICE (2) DATE

(3) COMPANY NAME (4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

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

DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED**

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PROJECT REFERENCE NO.

U-6202



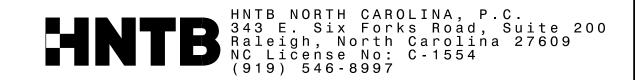
N/A

CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington REVIEWED BY: J.A. Wagner July 2023 PLAN DATE: PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons REVISIONS

031464

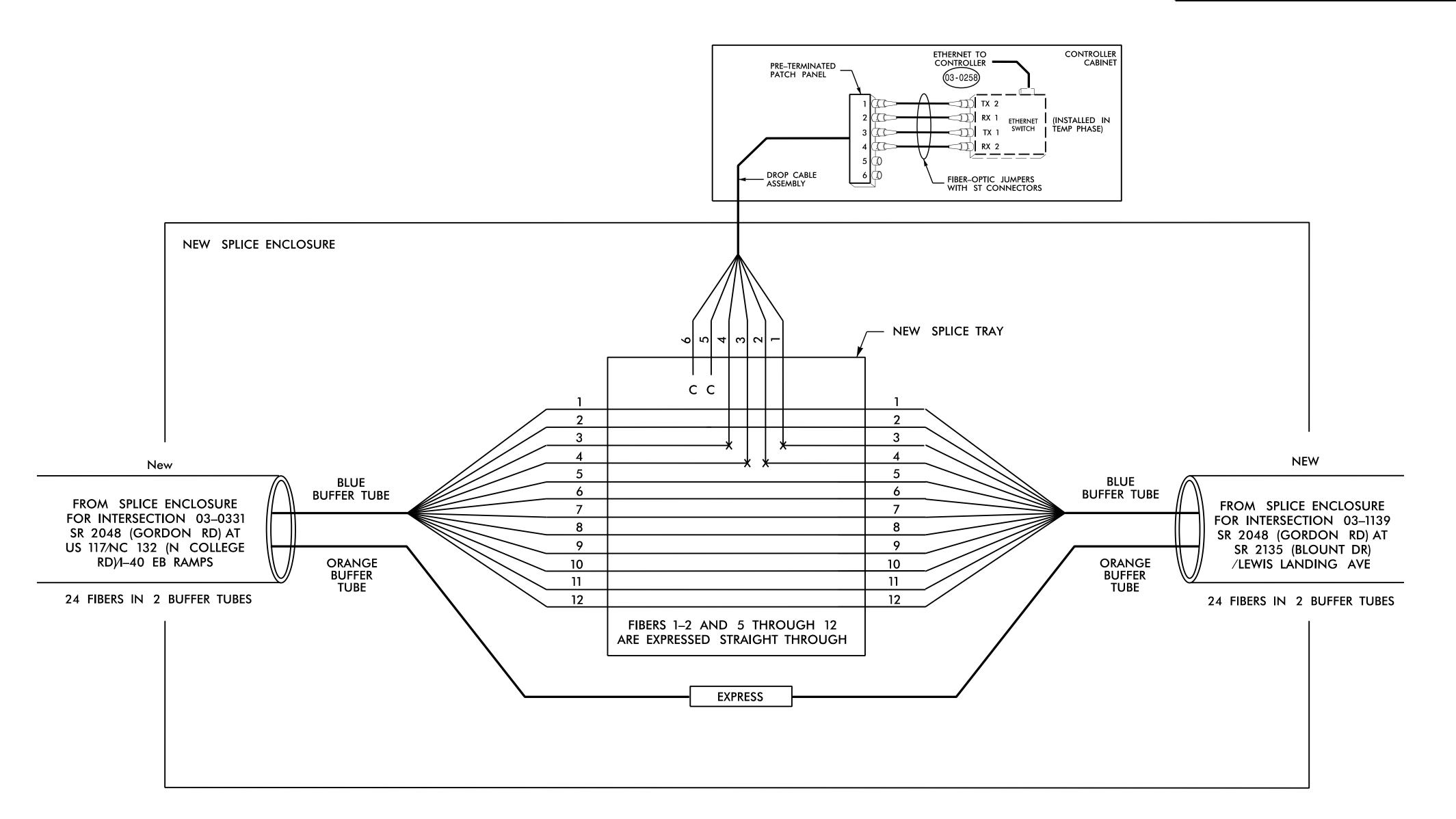
CADD Filenome: U6202 SCP-20.dgn



03-0258 SR 2048 (GORDON RD) AT I-40 WB RAMPS

LEGEND COLOR CODE TIA/EIA 598-C X = NEW FUSION SPLICE INDIVIDUAL FIBER ORANGE (8) BLACK • = EXISTING FUSION SPLICE C = CAP AND SEAL(4) BROWN (10) VIOLET = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING (5) SLATE (11) ROSE

BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER (12) AQUA WHITE TUBE COLOR TO COLOR



NOTES:

- 1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
- 2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
- 3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION.
- 4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

(1) SPLICE (2) DATE

(3) COMPANY NAME (4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

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

DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO.

U-6202

SCP. 21



N/A

CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington REVIEWED BY: J.A. Wagner July 2023 PLAN DATE: PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons



REVISIONS CADD Filenome: U6202 SCP-21.dgn

03-1139
SR 2048 (GORDON RD)
AT
SR 2135 (BLOUNT DR)/
LEWIS LANDING AVE

COLOR CODE TIA/EIA 598-C

(1) BLUE (7) RED X = NEW FUSION SPLICE INDIVIDUAL FIBER

(2) ORANGE (8) BLACK
(3) GREEN (9) YELLOW C = CAP AND SEAL

(4) BROWN (10) VIOLET EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING

(5) SLATE (11) ROSE

(6) WHITE (12) AQUA

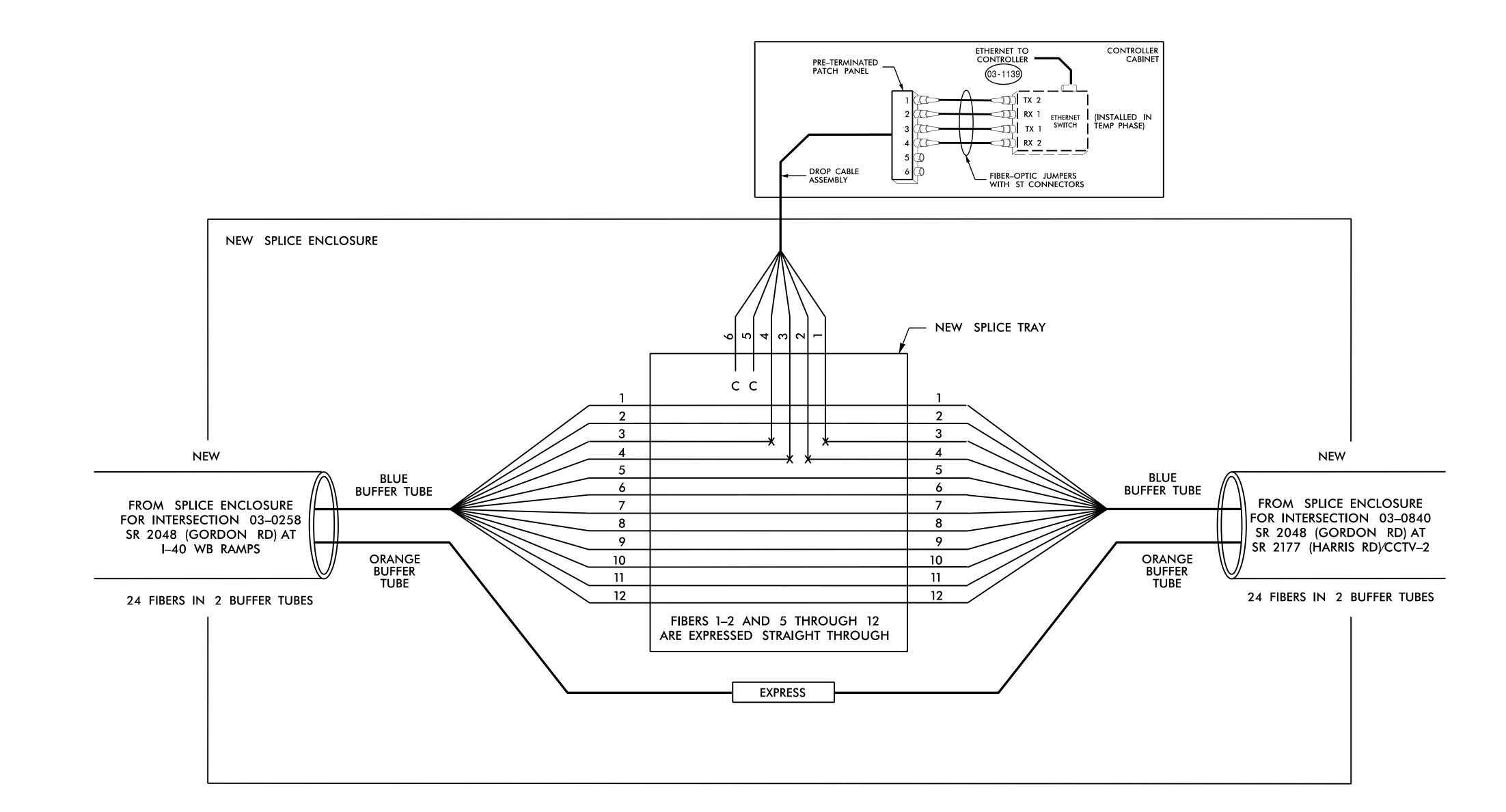
(11) LEGEND

X = NEW FUSION SPLICE INDIVIDUAL FIBER

• = EXISTING FUSION SPLICE

EXPRESS = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING

BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR



NOTES:

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- 3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC.
 CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION.
- 4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

(1) SPLICE

(2) DATE

(3) COMPANY NAME

(4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

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

Final Phase

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.

U-6202



N/A

CITY OF WILMINGTON SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington
PLAN DATE: July 2023 REVIEWED BY: J.A. Wagner
PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons
REVISIONS INIT. DATE

SEAL 031464

Docusigned by:

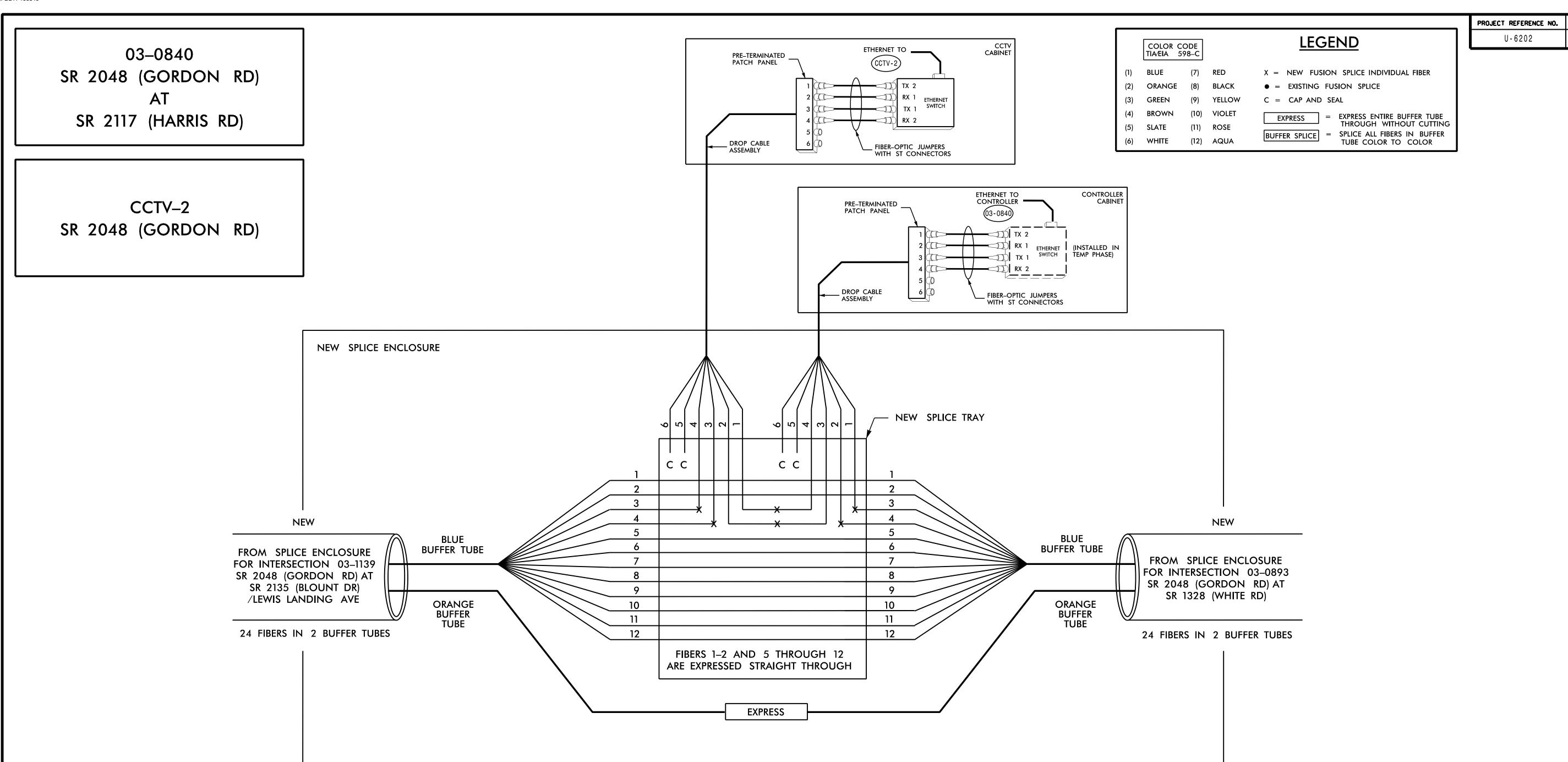
Natasha R Simmons 5/17

DATE ODOCUSIGNED by:

Motasha R Simmons 5/17/2024

FEDAS SIGNA 41 TORE DATE

CADD Filename: U6202 SCP-22.dgn



NOTES:

- 1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
- 2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
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 CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION.
- 4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

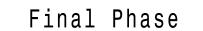
(1) SPLICE

(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.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

OR OF ESSION !

031464



N/A

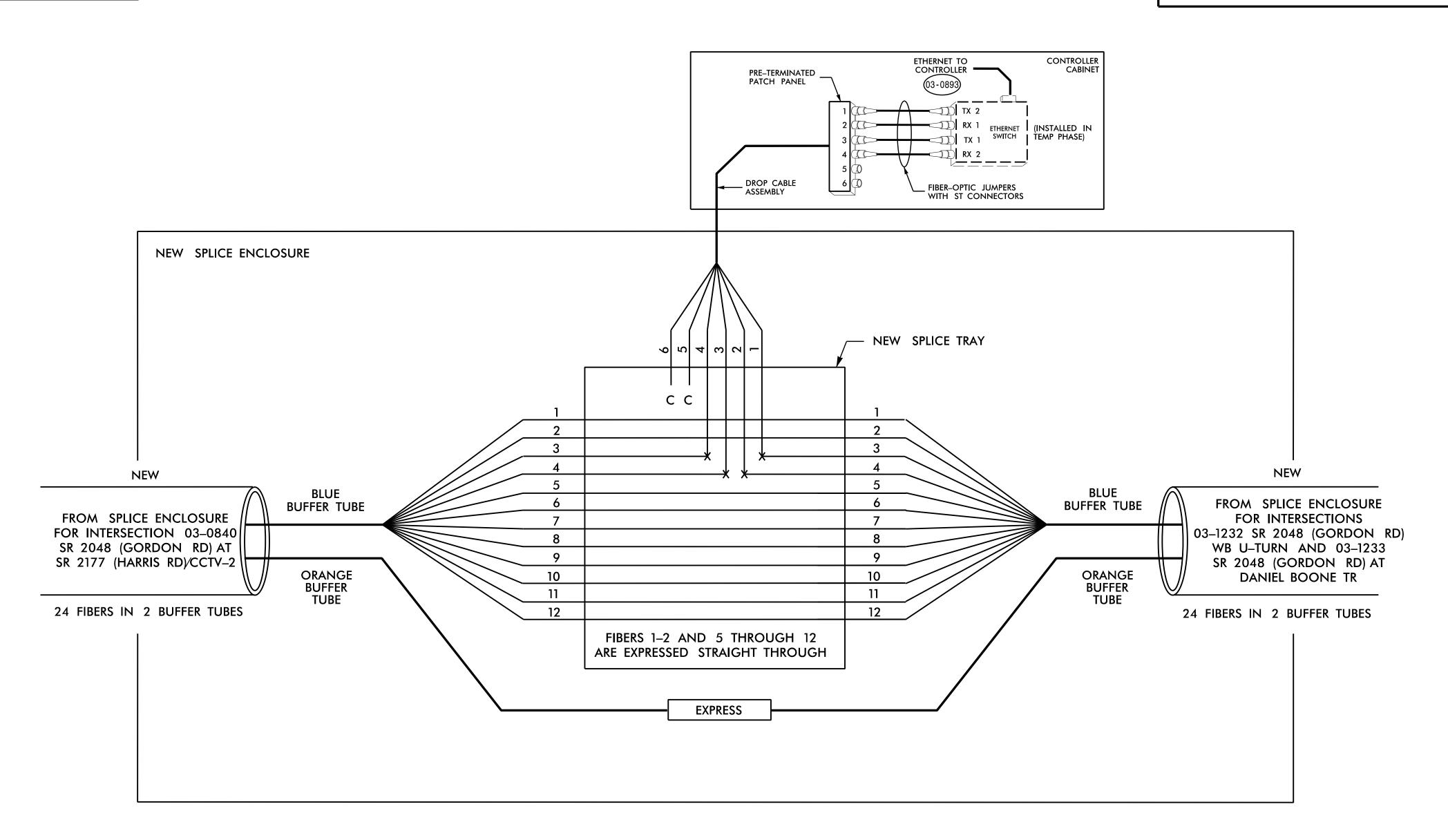
CITY OF WILMINGTON SIGNAL SYSTEM
COMMUNICATIONS CABLE AND
CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington
PLAN DATE: July 2023 REVIEWED BY: J.A. Wagner
Garner, NC 27529 PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons
SCALE REVISIONS INIT. DATE

03–0893 SR 2048 (GORDON RD) SR 1328 (WHITE RD)

LEGEND COLOR CODE TIA/EIA 598-C X = NEW FUSION SPLICE INDIVIDUAL FIBER ORANGE • = EXISTING FUSION SPLICE C = CAP AND SEAL(4) BROWN (10) VIOLET = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING (5) SLATE (11) ROSE BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER (12) AQUA WHITE TUBE COLOR TO COLOR

PROJECT REFERENCE NO. U-6202



NOTES:

- 1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
- 2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE TRAY.
- 3. ETHERNET SWITCH TERMINATION CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING / ENSURING PROPER TERMINATION.
- 4. INCLUDE ON THE COVER OF EACH SPLICE TRAY THE FOLLOWING: REFERENCE SECTION 1731 "FIBER OPTIC SPLICE ENCLOSURE"

(1) SPLICE (2) DATE

(3) COMPANY NAME

(4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



N/A

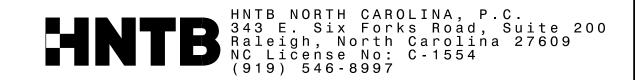
CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington July 2023 PLAN DATE: PREPARED BY: G.D. Berry

REVIEWED BY: J.A. Wagner REVIEWED BY: N.R. Simmons REVISIONS

OR SOFESSION A 031464

CADD Filenome: U6202 SCP-24.dgn



COLOR CODE TIA/EIA 598-C ETHERNET TO CONTROLLER CONTROLLER 03–1232 CABINET PRE_TERMINATED PATCH PANEL (03-1232) SR 2048 (GORDON RD) WB DANIEL BOONE TR WHITE (12) AQUA DROP CABLE FIBER-OPTIC JUMPERS ASSEMBLY

PROJECT REFERENCE NO. U-6202

• = EXISTING FUSION SPLICE C = CAP AND SEALBROWN (10) VIOLET = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR

CONTROLLER CABINET

ETHERNET TO CONTROLLER

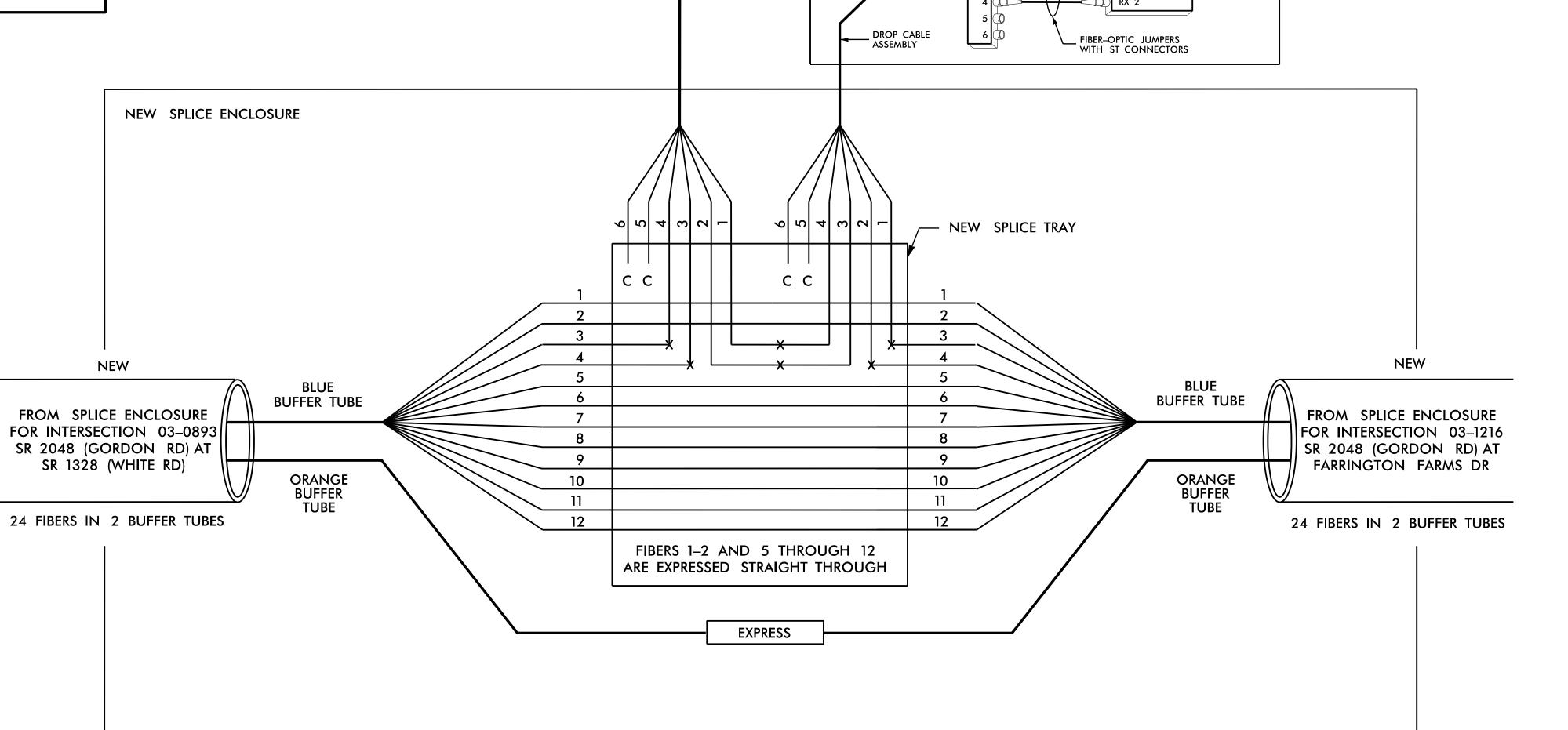
(03-1233)

PRE-TERMINATED PATCH PANEL

LEGEND

X = NEW FUSION SPLICE INDIVIDUAL FIBER

03–1233 SR 2048 (GORDON RD) EB WESTBOUND U-TURN



NOTES:

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



N/A

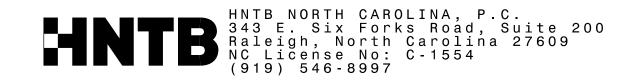
CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

July 2023 PLAN DATE: PREPARED BY: G.D. Berry

Division 3 New Hanover County Wilmington REVIEWED BY: J.A. Wagner REVIEWED BY: N.R. Simmons REVISIONS



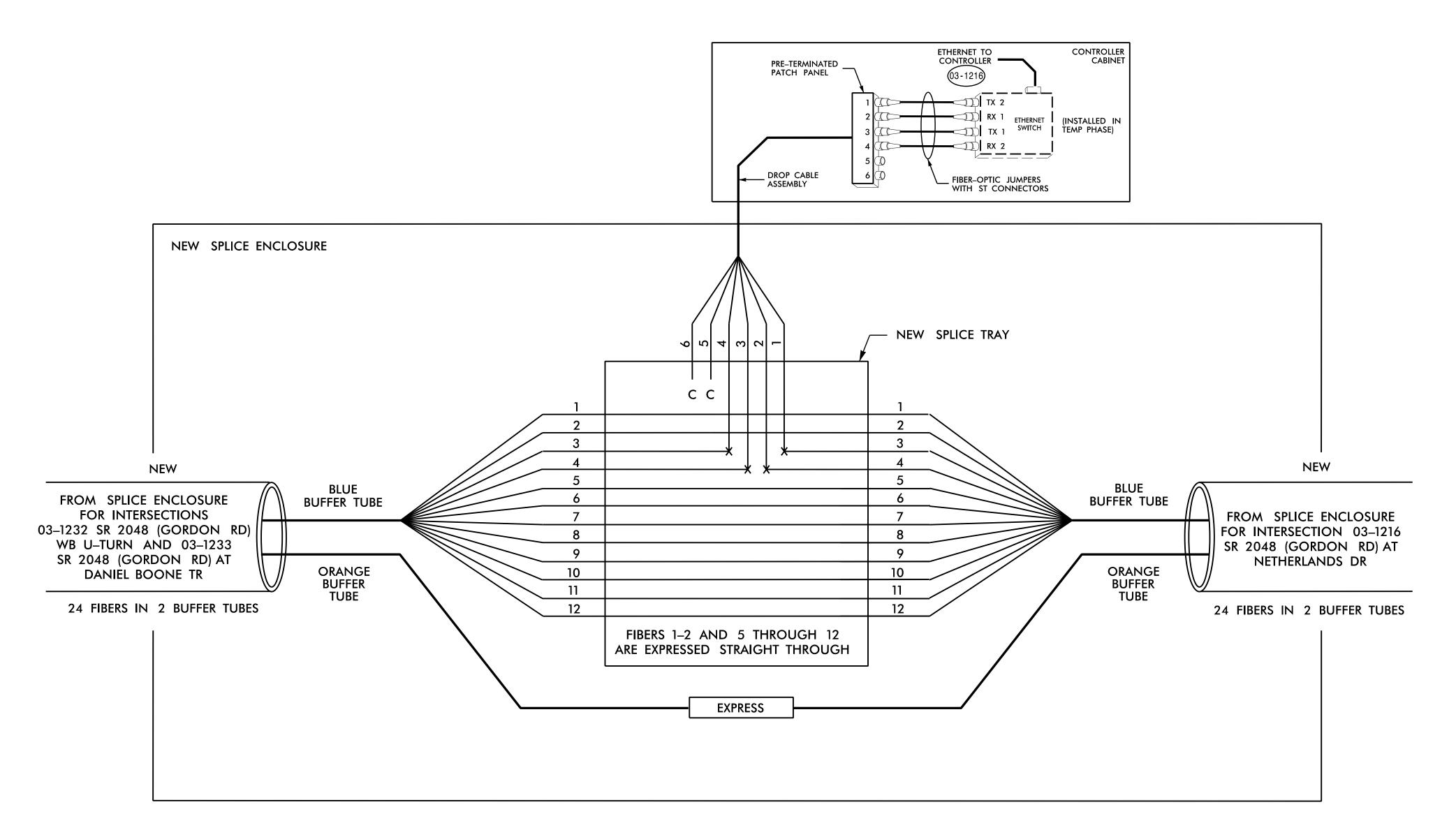
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03–1216 SR 2048 (GORDON RD) FARRINGTON FARMS DR

LEGEND COLOR CODE TIA/EIA 598-C X = NEW FUSION SPLICE INDIVIDUAL FIBER ORANGE (8) BLACK • = EXISTING FUSION SPLICE C = CAP AND SEAL(4) BROWN (10) VIOLET = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING (5) SLATE (11) ROSE

BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER (12) AQUA WHITE TUBE COLOR TO COLOR



NOTES:

- 1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY.
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(1) SPLICE (2) DATE

(3) COMPANY NAME

(4) NAME OF INDIVIDUAL PERFORMING THE SPLICING

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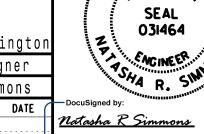
DOCUMENT NOT CONSIDERED FINAL **UNLESS ALL SIGNATURES COMPLETED**



N/A

CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

Division 3 New Hanover County Wilmington REVIEWED BY: J.A. Wagner July 2023 PLAN DATE: PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons



OR SOFESSION A

PROJECT REFERENCE NO.

U-6202

SCP. 26

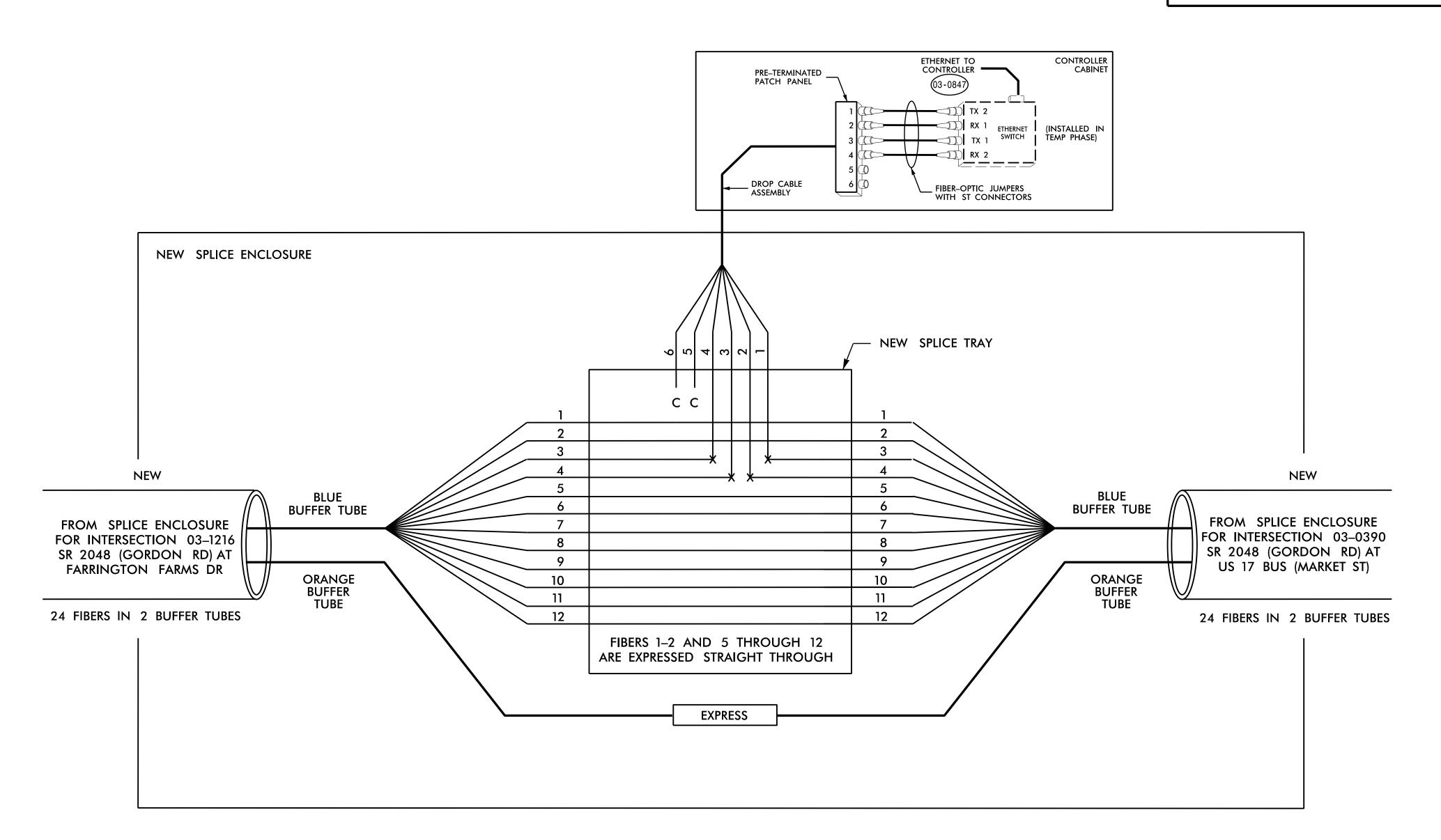
REVISIONS CADD Filenome: U6202 SCP-26.dgn

03-0847 SR 2048 (GORDON RD) NETHERLANDS DR

LEGEND COLOR CODE TIA/EIA 598-C X = NEW FUSION SPLICE INDIVIDUAL FIBER ORANGE (8) BLACK • = EXISTING FUSION SPLICE C = CAP AND SEAL(4) BROWN (10) VIOLET = EXPRESS ENTIRE BUFFER TUBE THROUGH WITHOUT CUTTING (5) SLATE (11) ROSE BUFFER SPLICE = SPLICE ALL FIBERS IN BUFFER (12) AQUA WHITE

TUBE COLOR TO COLOR

PROJECT REFERENCE NO. U-6202



NOTES:

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N/A

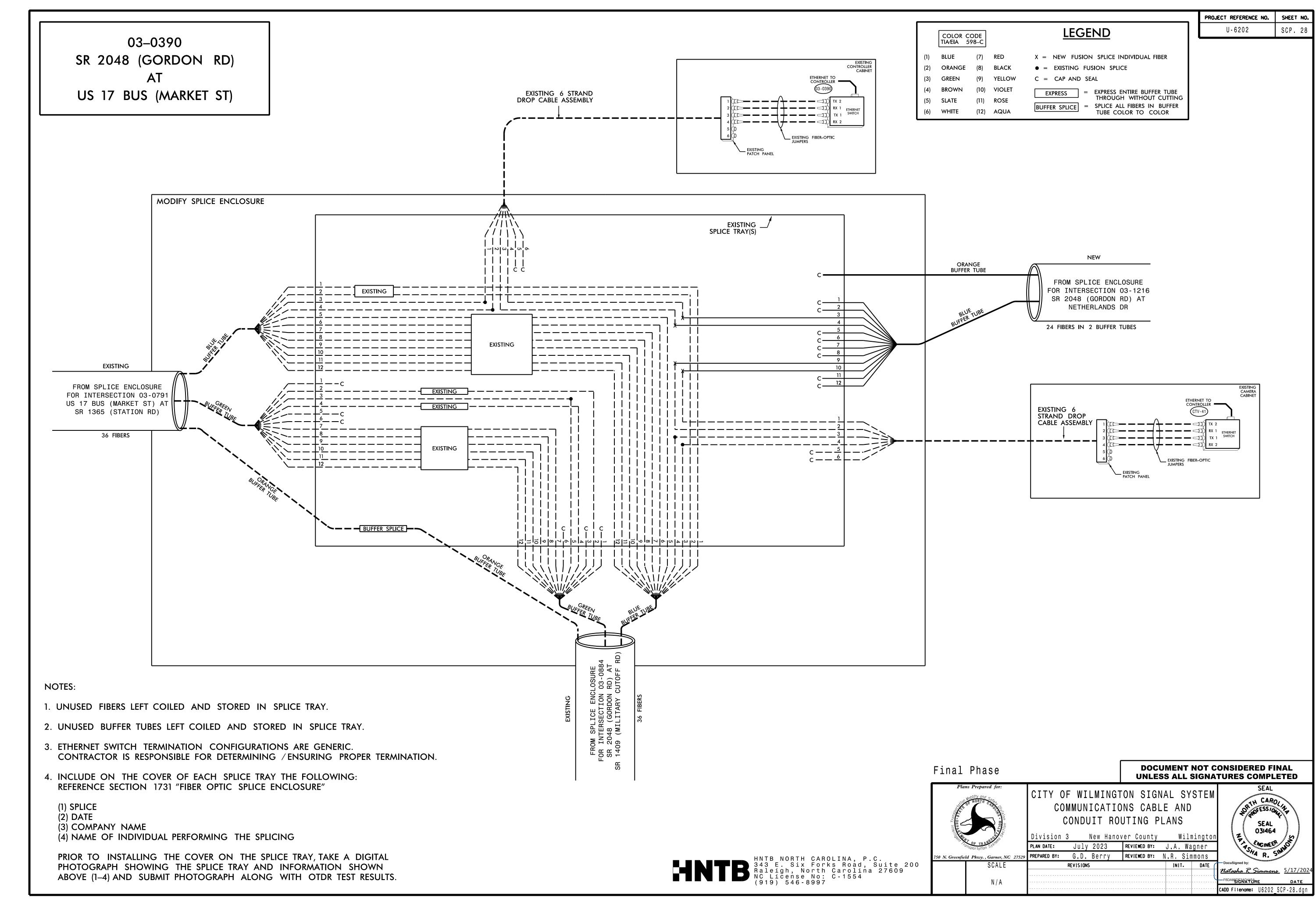
CITY OF WILMINGTON SIGNAL SYSTEM COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS

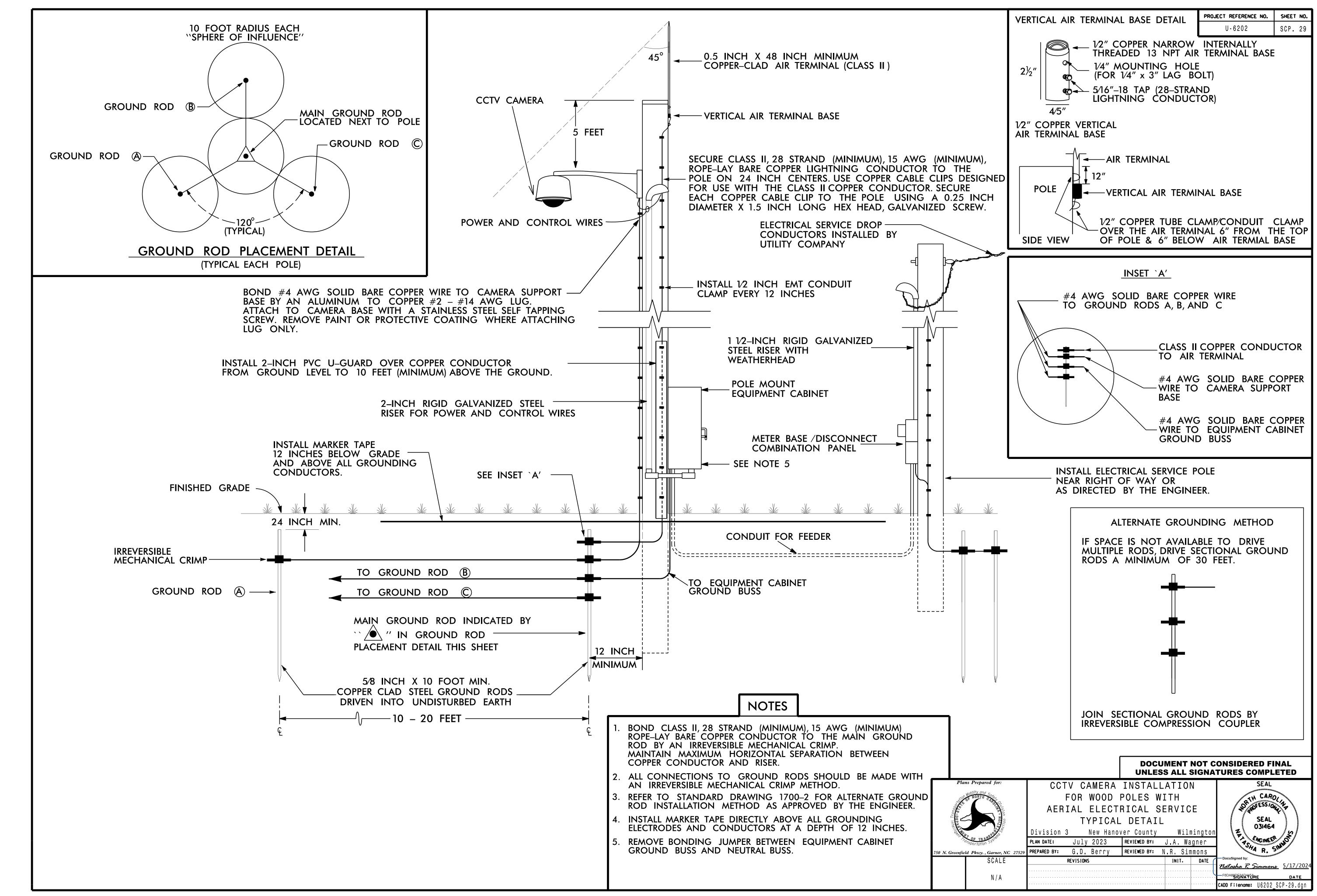
Division 3 New Hanover County Wilmington REVIEWED BY: J.A. Wagner July 2023 PLAN DATE: PREPARED BY: G.D. Berry REVIEWED BY: N.R. Simmons REVISIONS

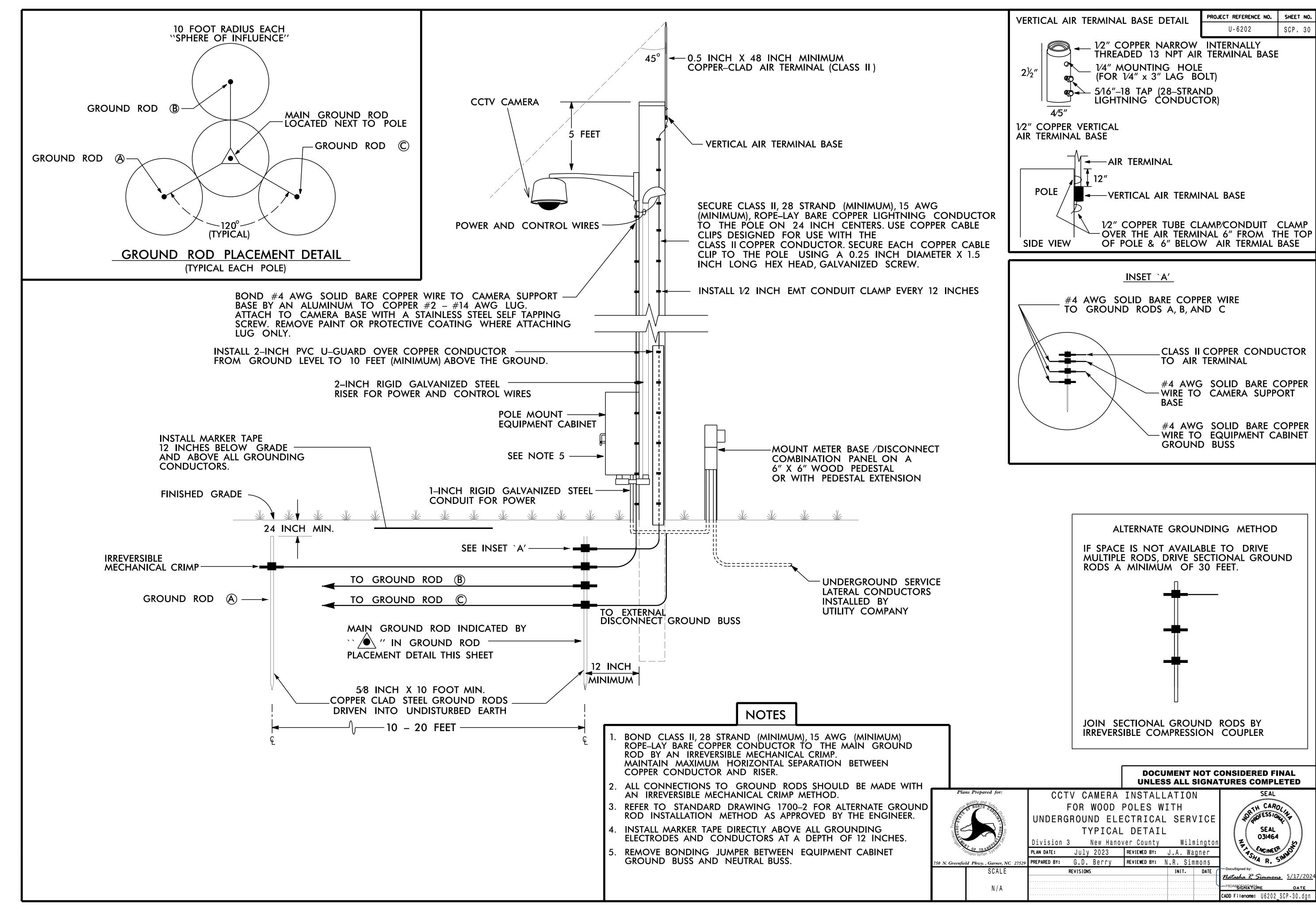
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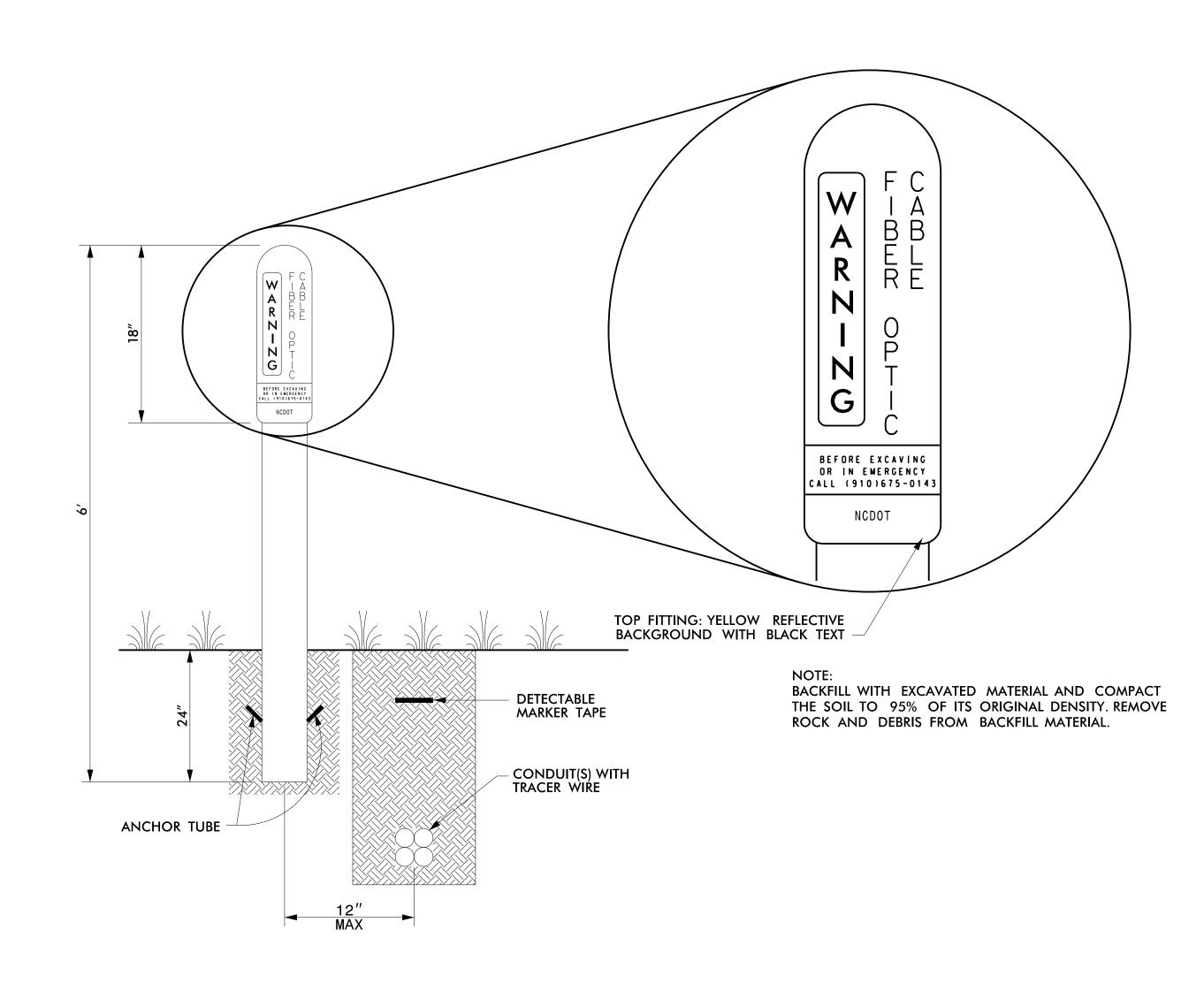
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OR SOFESSION A



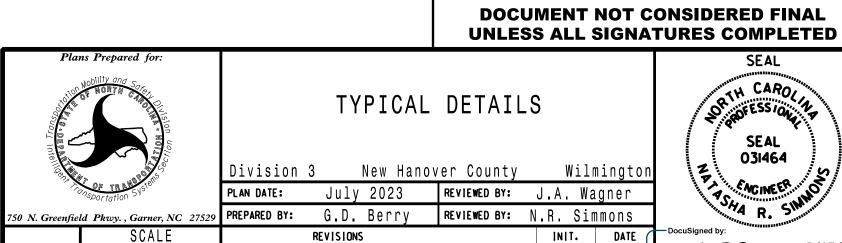






PVC POST-MOUNTED DELINEATOR MARKER

N/A



CADD Filename: U6202 SCP-31.dgn

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

STANDARD (ELECTRICAL)

JUNCTION BOX

TOP VIEW OF COVER

TOP VIEW WITHOUT COVER

SPECIAL OVERSIZED HEAVY DUTY

JUNCTION BOX

EMBOSSED, IMPRESSED, MOLDED OR ENGRAVED

LETTERS AT LEAST 1" HIGH

NCDOT I STELLE I STEL

TOP VIEW OF COVER

36" MIN.

TOP VIEW WITHOUT COVER

DELINEATOR MARKER 7

CONDUIT -AS REQUIRED

3" MIN. ¬

#67 WASHED STONE

SPECIAL OVERSIZED JUNCTION BOX

(IF REQUIRED)

EMBOSSED, IMPRESSED,
MOLDED OR ENGRAVED
LETTERS AT LEAST 1" HIGH

CONDUIT — AS REQUIRED

#67 WASHED STONE

OVERSIZED HEAVY DUTY

JUNCTION BOX

NCDOT FIBER-OPTIC

TOP VIEW OF COVER

28" MIN.

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LO & ENERGY ENERGY ENERGY ENERGY EN

TOP VIEW WITHOUT COVER

EMBOSSED, IMPRESSED, MOLDED OR ENGRAVED LETTERS AT LEAST 1" HIGH

DELINEATOR MARKER —

CONDUIT — AS REQUIRED

#67 WASHED STONE

OVERSIZED JUNCTION BOX

3" MIN. —

(IF REQUIRED)

STANDARD (ELECTRICAL) -JUNCTION BOX

NCDOT ELECTRIC