

PED 3 PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Detector >Ped Det Plans

Web Interface
Home >Controller >Detector Configuration >Pedestrian Detector

Plan 1

Detector	Descripton	Call Phase	Call Overlap
2		2	0
4		4	0
6		6	0
8		3	0

NOTICE PHASE 3 PED
ASSIGNED TO
DETECTOR 8 PED



Front Panel
Main Menu >Controller >More>Channels>Channels Config

Web Interface
Home >Controller >Advanced IO>Channels>Channels Configuration

Channel Configuration

Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel
	Phase Vehicle	1		X	X	1
2	Phase Vehicle	2		X		2
3	Phase Vehicle	3		X	X	3
4	Phase Vehicle	4		X		4
5	Overlap	7		X		5
6	Phase Vehicle	6		X	X	6
7	Overlap	8		X		7
8	Phase Vehicle	8		X	X	8
9	Overlap	1		X	X	9
10	Overlap	2		X	X	10
11	Overlap	3		X		11
12	Overlap	4		X		12
13	Phase Ped	2				13
14	Phase Ped	4				14
15	Phase Ped	6				15
16	Phase Ped	3				16
17	Overlap	5		X	X	17
18	Overlap	6		X		18

NOTICE OVERLAP 7



NOTICE OVERLAP 8



NOTICE PHASE 3 PED
ASSIGNED TO CHANNEL 16



OVERLAP PROGRAMMING

Front Panel
Main Menu >Controller >Overlap >Overlap Parameters/Overlap Timings

Web Interface
Home >Controller >Overlap Configuration >Overlaps

Overlap Plan 1

Overlap	1	3	4	6	7	8
Type	FYA 4 - Section	FYA 4 - Section	FYA 4 - Section	Normal	Normal	Normal
Included Phases	2	2	3	3,4	4	4
Modifier Phases	1	4	4	-	-	-
Modifier Overlaps	-	-	-	-	-	-
Trail Green	0	0	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0	0.0	0.0
FYA Ped Delay	7.0	7.0	0.0	0.0	0.0	0.0

LOGIC PROCESSOR PROGRAMMING

Front Panel
Main Menu >Controller >More >User Programs >Definition

Web Interface
Home >Controller >User Programs Configuration >User Programs Definition

Program 1

Statement	Result	Index	Operation	Parameter A	Index	Parameter B	Index	Delay	Ext
1	Phase Phase Omit	4	Result=Latch(A,B)	Phase Green	3	Phase Green	6	0.0	0.0

LOGIC STATEMENT DESCRIPTION

Statement 1 Description: Omit phase 4 if phase 3 call is present.

BACKUP PREVENTION PROGRAMMING

Front Panel
Main Menu >Controller >Sequence & Phs Config >Backup Prevention > Backup Protection Plan

Web Interface
Home >Controller> Backup Prevention >Backup Protection Plan

Sequence 1

No Backup Phase	1	2	3	4	5	6	7	8
Serve Phase 1	-	-	-	-	-	-	-	-
Serve Phase 2	X	-	-	-	-	-	-	-
Serve Phase 3	-	-	-	-	-	-	-	-
Serve Phase 4	-	-	-	-	-	-	-	-
Serve Phase 5	-	-	-	-	-	-	-	-
Serve Phase 6	-	-	-	-	-	-	-	-
Serve Phase 7	-	-	-	-	-	-	-	-
Serve Phase 8	-	-	-	-	-	-	-	-

ALL RED BACKUP PROGRAMMING

Front Panel
Main Menu >Controller >Sequence & Phs Config>Backup Prevention > Backup Through Red

Web Interface
Home >Controller >Backup Prevention >Backup Calls Phase Plans > (scroll down) to Backup Through Red

Backup Through All Red

Sequence	Backup Through All Red
1	YES

MAXTIME STARTUP AND SOFTWARE FLASH PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Unit

Web Interface
Home >Controller >Unit

Modify parameters as shown below and save changes.

Start Up Parameters

StartUp Clearance Hold
6

Unit Flash Parameters

All Red Flash Exit Time
6

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 13-0173
DESIGNED: FEBRUARY 2026
SEALED: 05/12/2026
REVISED:

HNTB

HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

FLASHER CIRCUIT MODIFICATION DETAIL

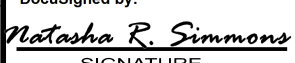
IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

1. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
2. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

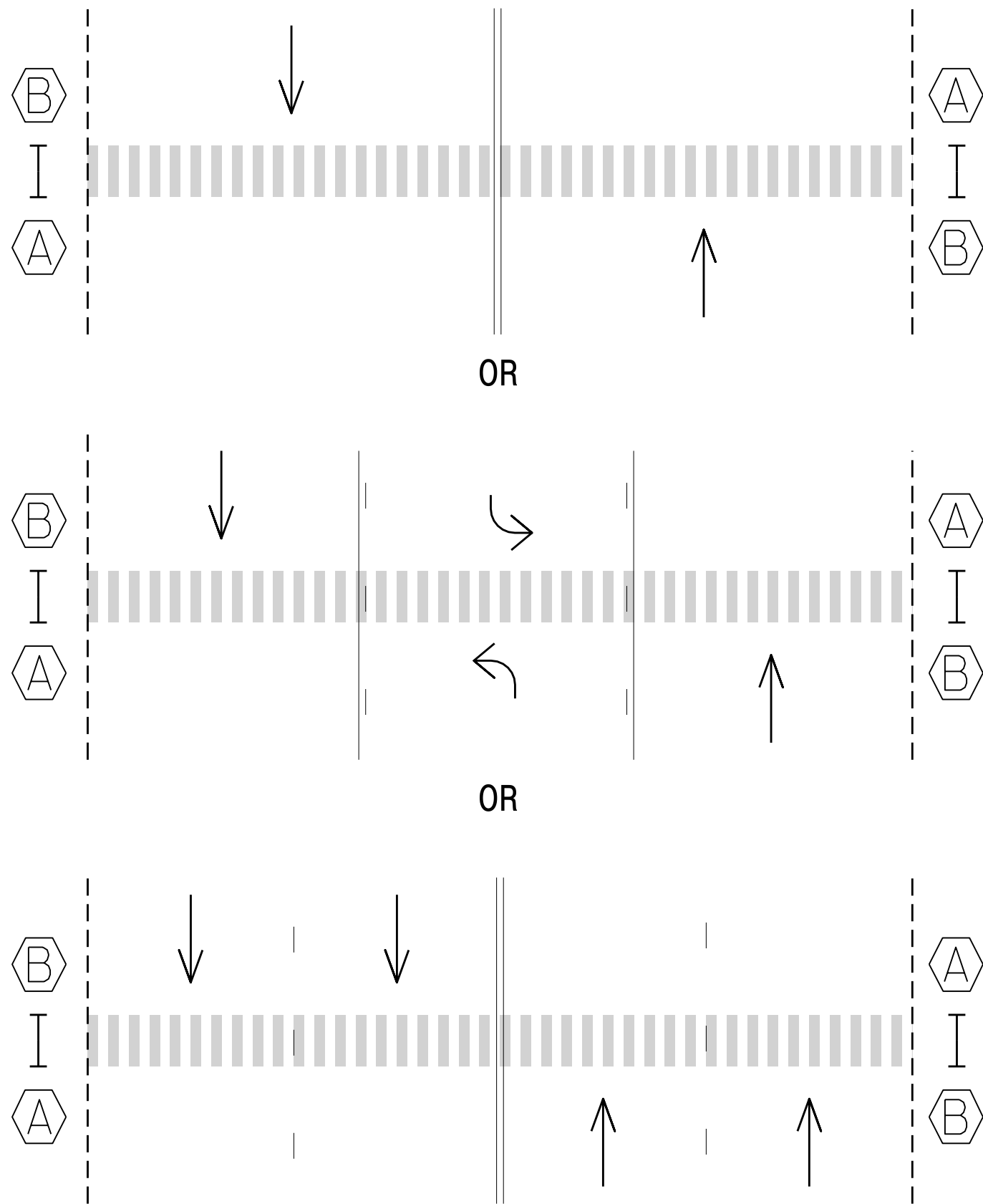
Signal Upgrade - Final Design
Electrical Detail - Sheet 2 of 2

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

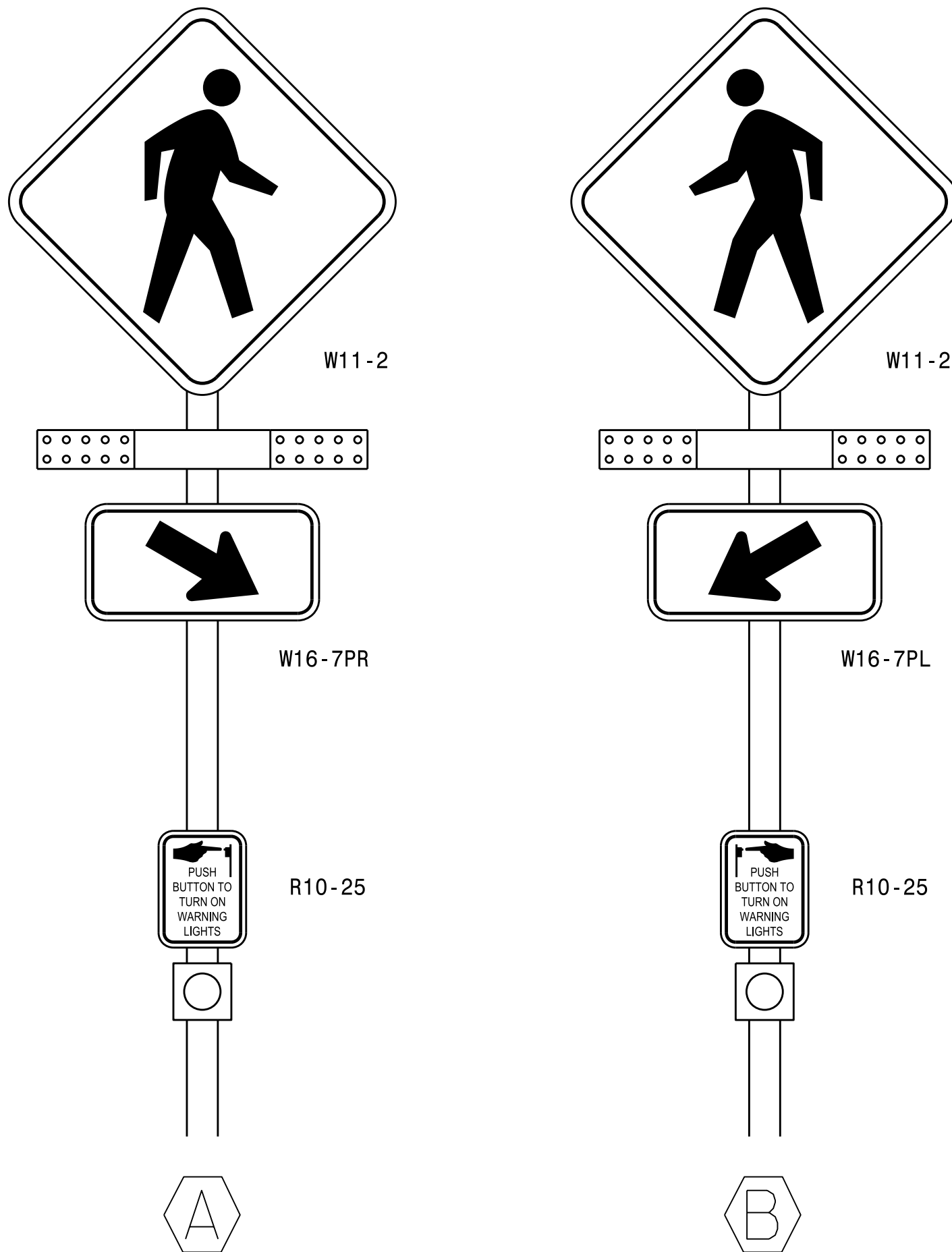
Electrical and Programming Details For: Prepared for the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27529	US 221 Alt-US 74 Bus (Main St) at SR 2169 (Oakland Rd)/ Kentucky Street		Seal  DocuSigned by: 	
	Division 13	Rutherford County		Spindale
	PLAN DATE: February 2026	REVIEWED BY: N. K. Vlanich		
	PREPARED BY: E.E. Tiller	REVIEWED BY: N. R. Simmons		
	REVISIONS			INIT.

SIGNATURE
DATE
SIG. INVENTORY NO. 13-0173

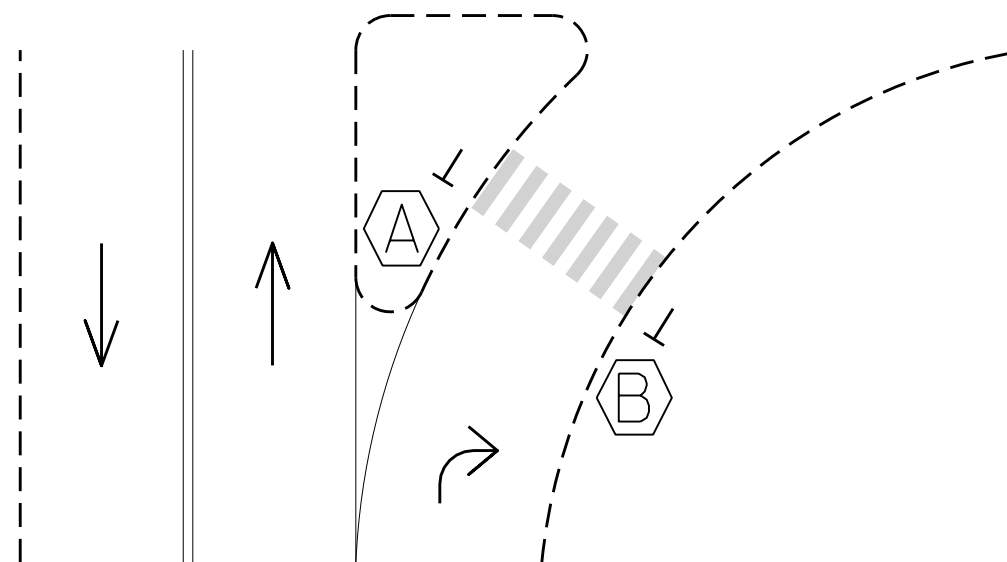
Two to Four Lanes, Undivided



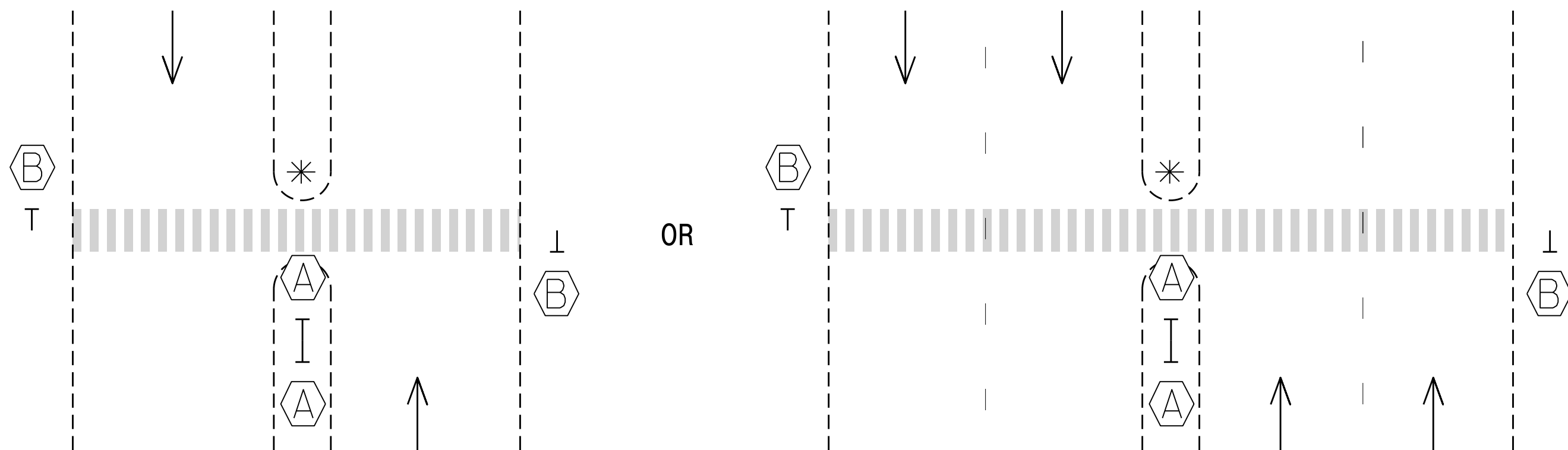
RRFB Sign Detail



Slip Lanes



Two or Multi-Lanes, Divided



* See Note 5

* See Note 5

Notes

1. Design the RRFB in accordance with the 2023 MUTCD, 11th Edition, Chapter 4L: Rectangular Rapid Flashing Beacons. The Rectangular Rapid Flashing Beacon (RRFB) unit associated with a post-mounted sign and plaque should be located between the pedestrian crossing warning (W11-2) sign and the supplemental downward diagonal arrow plaque (W16-7p).
2. If needed, a supplemental RRFB with an "AHEAD" (W16-9P) or distance (W16-2P) plaque may be installed on the approach in advance of the crosswalk. The additional RRFB shall be a supplemental to and not a replacement for the RRFB at the actual crosswalk.
3. When practical, the RRFB and mounting post on the right side of the road shall be mounted on the approach side of the crosswalk closest to approaching traffic.
4. When practical, the RRFB and mounting post on the left side of the road may be mounted on the back of the post for the opposing approach.
5. A RRFB on the left side of the roadway or in the median may be individually mounted on the approach side of the crosswalk closest to approaching traffic, or, when practical, may be mounted back to back on the same post and mounted on either side of the crosswalk in the median.
6. Locate push button sign (R10-25) and push button to face crosswalk, even if it is mounted on the back side of the sign.
7. All RRFB units associated with a given crosswalk (including those with an advance crossing sign) shall, when actuated, simultaneously commence operation of their rapid-flashing indications and shall cease operation simultaneously.
8. If an audible information device is used in conjunction with an RRFB, the audible message should be a speech message that says "Warning lights are flashing." The audible message should be spoken twice. The audible information device shall not use vibrotactile or percussive indications.
9. For quantitative purposes, a single sided, post mounted RRFB is one assembly unit. A double sided RRFB mounted on the same post is counted as two (2) assemblies.
10. For additional information, see Version 24 of the Transportation Systems Management and Operations (TSMO) Unit Project Special Provisions (PSP).

Timing of RRFBs

When actuated, the two yellow indications in each RRFB unit shall flash in a rapidly flashing sequence.

The RRFB shall flashing sequence shall provide enough time for pedestrians to cross from curb to curb. It is recommended to be a minimum of 7 seconds plus the crossing distance (D) divided by 3.5 feet/per sec., rounded up to the next whole second:

Flash Time (sec.) = 7 + D/3.5

Per Section 4L.03 of the 2023 MUTCD, RRFBs shall provide 75 flashing sequences per minute. During each 800 millisecond flashing sequence, the left and right RRFB indications shall operate using the following sequence:

- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 250 milliseconds.

Standard Drawing for Rectangular Rapid Flashing Beacon

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Offices of:

Transportation Mobility and Safety Division

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

TSMO Unit

750 N. Greenfield Parkway

Garner, NC 27529

SEAL

026486

ENGINEER

ROBERT J. ZIEMBA

DocuSigned by:

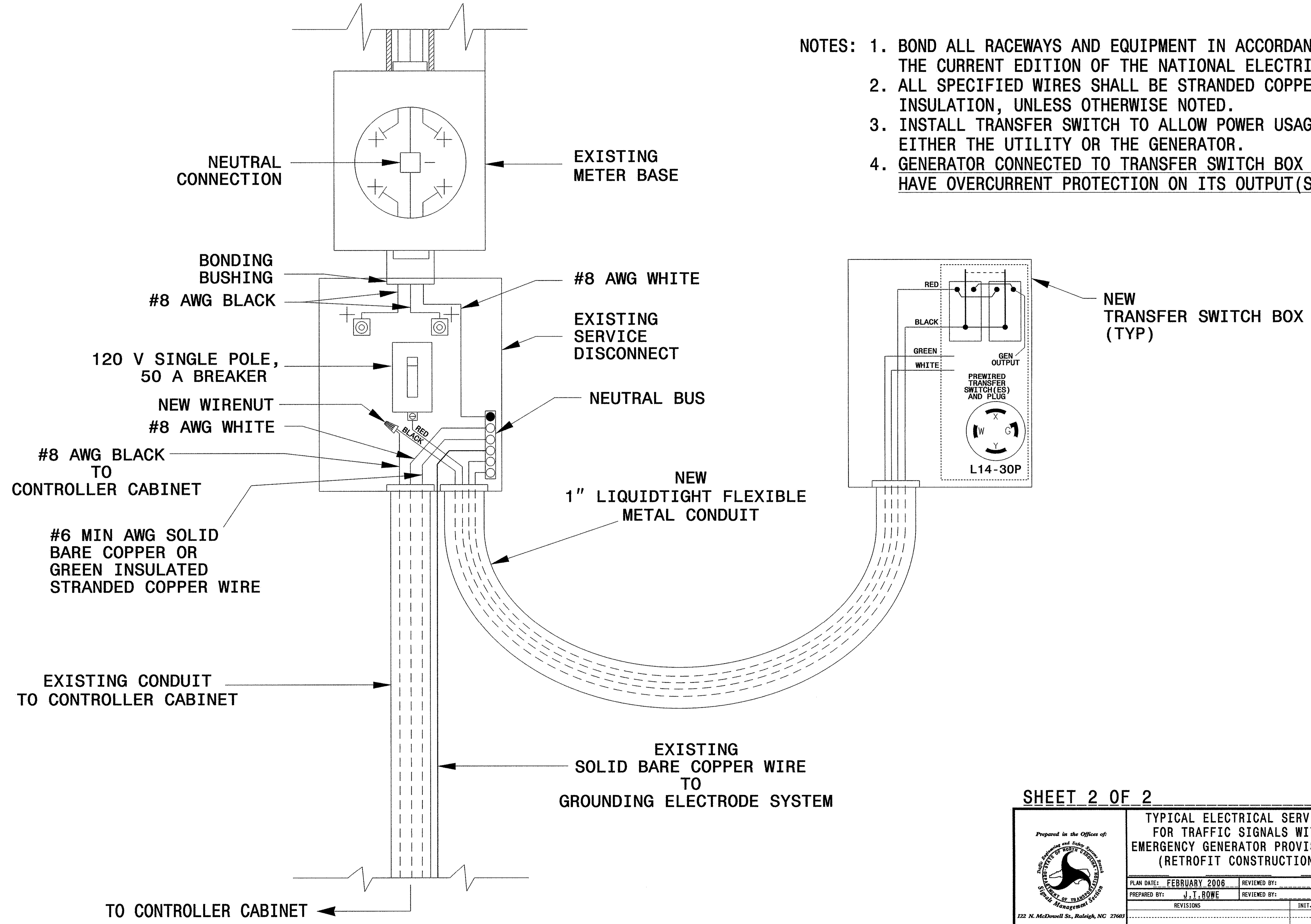
Robert J. Ziemba

SIGNATURE

02/13/2026

DATE

TYPICAL ELECTRICAL CONNECTION DETAIL FOR
OVERHEAD SERVICE INSTALLATION
(SHOWN WITH METER BASE, SERVICE DISCONNECT, AND TRANSFER SWITCH)



- NOTES: 1. BOND ALL RACEWAYS AND EQUIPMENT IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.
2. ALL SPECIFIED WIRES SHALL BE STRANDED COPPER WITH THWN INSULATION, UNLESS OTHERWISE NOTED.
3. INSTALL TRANSFER SWITCH TO ALLOW POWER USAGE FROM EITHER THE UTILITY OR THE GENERATOR.
4. GENERATOR CONNECTED TO TRANSFER SWITCH BOX PLUG SHALL HAVE OVERCURRENT PROTECTION ON ITS OUTPUT(S).

SHEET 2 OF 2

 122 N. McDowell St., Raleigh, NC 27603	TYPICAL ELECTRICAL SERVICE FOR TRAFFIC SIGNALS WITH EMERGENCY GENERATOR PROVISIONS (RETROFIT CONSTRUCTION)			
	PLAN DATE: FEBRUARY 2006	REVIEWED BY:		
	PREPARED BY: J. I. ROWE	REVIEWED BY:		
	REVISIONS	INIT.		DATE
		SIG. INVENTORY NO.		

06-MAR-2007 09:12
d:\arowspecial\projects\elec service for signals w_ gen\typ elec service for signals w_generator.shx.dgn
J. Rowe

EXISTING
ELECTRICAL
SERVICE METER
BASE (TYP)

EXISTING
SERVICE
DISCONNECT

NEMA 3R
MANUAL TRANSFER SWITCH
(RELIANCE CONTROLS
MODEL CSR-521
OR EQUIVALENT)

1" LIQUIDTIGHT
FLEXIBLE METAL CONDUIT
(TYP)

EXISTING
DISCONNECT

6"X6" TREATED
WOOD POST (TYP)

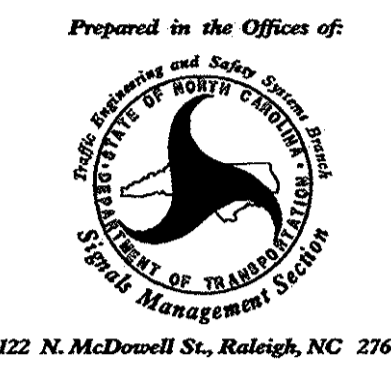
WOOD POLE

TO
CONTROLLER
CABINET

FROM
UTILITY
SOURCE

- NOTES: 1. PERFORM ALL WORK IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE.
2. PROVIDE LOCKABLE MANUAL TRANSFER SWITCH BOX WITH L14-30P THAT RETAINS NEMA 3R RAINPROOF RATING WITH GENERATOR CORD SET CONNECTED.
3. REFER TO NCDOT ROADWAY STANDARD DRAWINGS 1700.01 AND 1700.02 FOR GROUNDING ELECTRODE SYSTEM REQUIREMENTS.
4. REFER TO SHEET 2 FOR BONDING REQUIREMENTS.

SHEET 1 OF 2

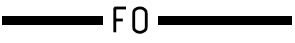
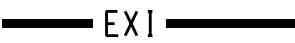
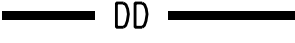
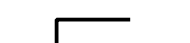
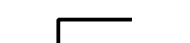
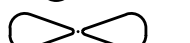
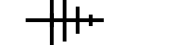
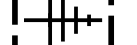
	TYPICAL ELECTRICAL SERVICE FOR TRAFFIC SIGNALS WITH EMERGENCY GENERATOR PROVISIONS (RETROFIT CONSTRUCTION)		SEAL NORTH CAROLINA PROFESSIONAL SEAL 023919 C. GREGORY A. FULFORD	
	PLAN DATE: FEBRUARY 2007	REVIEWED BY:	INIT.	DATE
	PREPARED BY: J. T. ROWE	REVIEWED BY:	INIT.	DATE
	REVISIONS	INIT.	DATE	
122 N. McDowell St., Raleigh, NC 27603		3/7/07		

PROJECT REFERENCE NO.	SHEET NO.
HL-0065	SCP-1

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

- 32
- INSTALL POLE MOUNTED SPLICE CABINET
- 33
- INSTALL BASE MOUNTED HUB CABINET
- 34
- INSTALL CABINET FOUNDATION
- 35
- INSTALL CCTV CAMERA POLE MOUNTED CABINET
- 36
- INSTALL CCTV CAMERA ASSEMBLY
- 37
- INSTALL CCTV CAMERA WOOD POLE
- 38
- INSTALL CCTV CAMERA METAL POLE AND FOUNDATION
- 39
- INSTALL STANDARD SIZED JUNCTION BOX
- 40A
- INSTALL OVERSIZED JUNCTION BOX
- 40B
- INSTALL SPECIAL OVERSIZED JUNCTION BOX (36” x 24” x 24”)
- 41
- REMOVE EXISTING JUNCTION BOX
- 42
- INSTALL WOOD POLE
- 43
- REMOVE EXISTING WOOD POLE
- 44
- INSTALL AERIAL GUY ASSEMBLY
- 45
- INSTALL STANDARD GUY ASSEMBLY
- 46
- INSTALL SIDEWALK GUY ASSEMBLY
- 47
- INSTALL MESSENGER CABLE
- 48A
- REMOVE EXISTING COMMUNICATIONS AND MESSENGER CABLE
- 48B
- REMOVE EXISTING COMMUNICATIONS CABLE
- 49
- BACK PULL EXISTING COMMUNICATIONS CABLE
- 50
- INSTALL CELL MODEM AND ANTENNA
- 50A
- RELOCATE CELL MODEM AND ANTENNA
- 51
- INSTALL CABLE STORAGE RACKS (SNOW SHOES) AND STORE 100 FEET OF CABLE
- 52A
- BOND TRACER WIRE TO JUNCTION BOX ISOLATION TEST SWITCH OR TEST POINTS
- 52B
- INSTALL ELECTRONIC MARKER BALL
- 52C
- INSTALL DELINEATOR MARKER
- 53A
- STORE 20 FEET OF COMMUNICATIONS CABLE
- 53B
- STORE 50 FEET OF EACH COMMUNICATIONS CABLE
- 54
- LASH CABLE(S) TO EXISTING COMMUNICATIONS CABLE
- 55
- LASH CABLE(S) TO EXISTING MESSENGER CABLE
- 56
- LASH CABLE(S) TO NEW MESSENGER CABLE
- 57
- MODIFY EXISTING ELECTRICAL SERVICE
- 58
- INSTALL NEW ELECTRICAL SERVICE

- 59
- INSTALL NEW EQUIPMENT CABINET/ ENCLOSURE DISCONNECT
- 60
- BOND TRACER WIRE TO EQUIPMENT GROUND BUS
- 61
- DO NOT BOND TRACER WIRE TO EQUIPMENT GROUND BUS
- 62
- BOND RISER AND MESSENGER CABLE TO POLE GROUND
- 63
- BOND RISER TO POLE GROUND
- 64
- BOND MESSENGER CABLE TO POLE GROUND
- 65
- INSTALL HEAT SHRINK TUBING RETROFIT KIT
- 66
- INSTALL APPROPRIATE CONDUIT SEALING DEVICES
- 67
- INSTALL GROUND ROD IN JUNCTION BOX
- 68
- INSTALL 8.5 dB GAIN YAGI ANTENNA (VERTICALLY POLARIZED)
- 69
- REMOVE YAGI ANTENNA
- 70
- INSTALL 900 MHz ETHERNET RADIO
- 71
- RELOCATE 900 MHz ETHERNET RADIO

LEGEND		
	NEW FIBER OPTIC COMMUNICATIONS CABLE	
	EXISTING COMMUNICATIONS CABLE	
	EXISTING COMMUNICATIONS CABLE TO BE REMOVED	
	NEW AERIAL GUY ASSEMBLY	
	NEW CONDUIT	
	EXISTING CONDUIT	
	NEW DIRECTIONAL DRILLED CONDUIT	
NEW		EXISTING
	JUNCTION BOX	
	WOOD POLE	
	ELECTRICAL SERVICE	
	AERIAL SPLICE ENCLOSURE	
	UNDERGROUND SPLICE ENCLOSURE	
	METAL POLE	
	STANDARD GUY ASSEMBLY	
	SIDEWALK GUY ASSEMBLY	
	CABLE STORAGE RACKS (SNOW SHOES)	
	SIGNAL/EQUIPMENT CABINET	
	GATEWAY CABINET	
	SPLICE CABINET	
	YAGI ANTENNA (SINGLE)	
	YAGI ANTENNA (DOUBLE)	
	SIGNAL POLE	
	SIGNAL INVENTORY NUMBER	

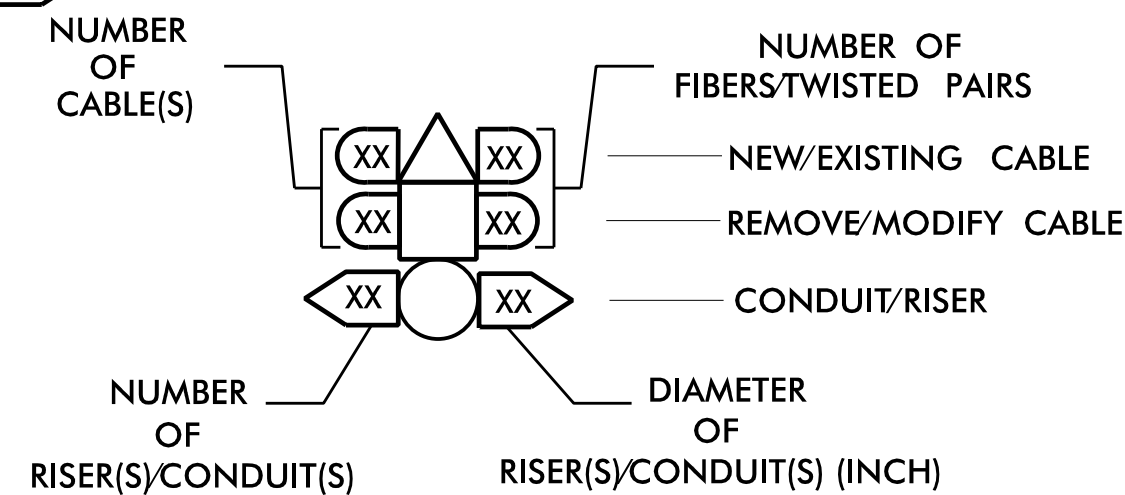
CONSTRUCTION NOTE SYMBOLOGY KEY

XX INDICATES NUMBER OF CABLES, LOOPS, ETC.

XX INDICATES NUMBER OF FIBERS PER CABLE, TWISTED PAIRS PER CABLE, ETC.

XX INDICATES NUMBER OF RISER(S)/CONDUIT(S)

XX INDICATES DIAMETER OF RISER(S)/CONDUIT(S) (INCH)

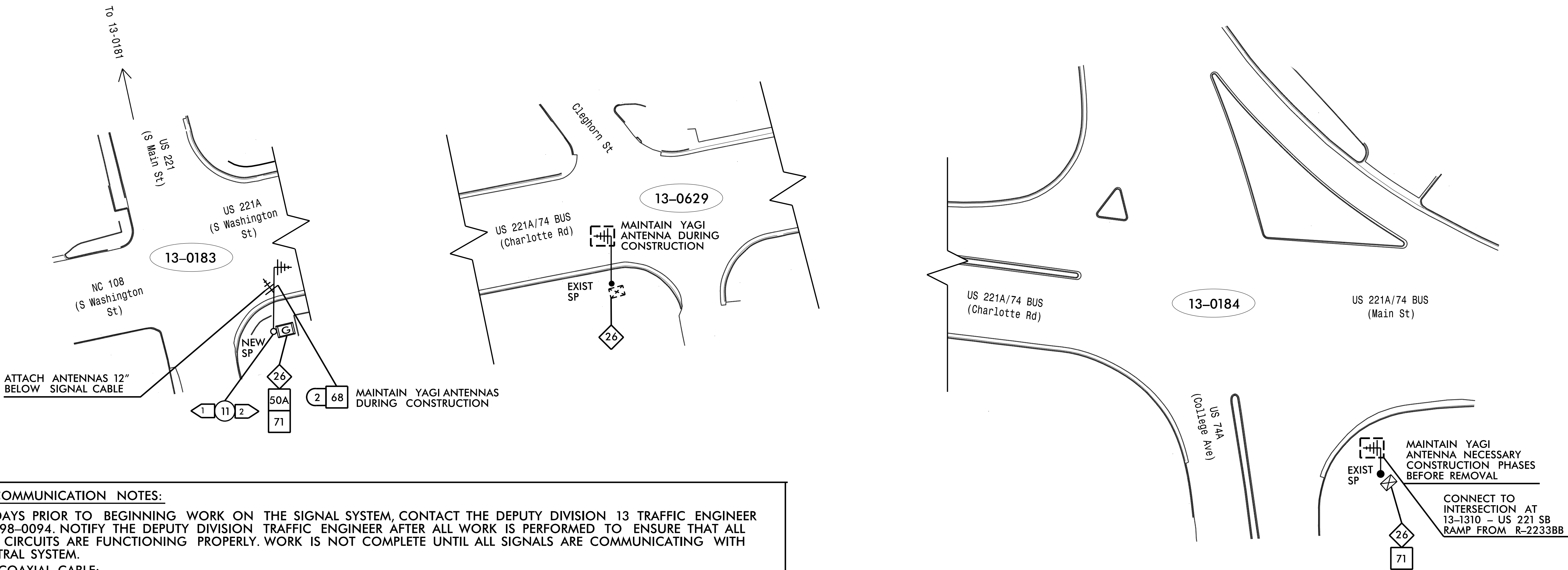


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared For: 	D13-24 RUTHERFORDTON SIGNAL COMMUNICATIONS PLAN CONSTRUCTION NOTES			SEAL 
	Division 13		Rutherford County	Rutherfordton
	PLAN DATE:	February 2026	REVIEWED BY:	N.K. Vianich
	PREPARED BY:	E.E. Tiller	REVIEWED BY:	N.R. Simmons
750 N.Greenfield Pkwy, Garner, NC 27529	REVISIONS		INIT.	DATE
SCALE NONE				
		DocuSigned by: <i>Natasha R. Simmons</i> FEDAB8CF3AD445A		
		SIGNATURE		DATE
		CADD Filename: HL-0065_SCP-1.dgn		

HNTB
HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

SEE R-2233BB PLANS FOR SIGNALS
13-1310, 13-1309 & 13-0828



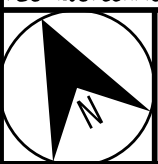
WIRELESS COMMUNICATION NOTES:

- FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DEPUTY DIVISION 13 TRAFFIC ENGINEER AT 828-298-0094. NOTIFY THE DEPUTY DIVISION TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL WIRELESS CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL ALL SIGNALS ARE COMMUNICATING WITH THE CENTRAL SYSTEM.
- INSTALL COAXIAL CABLE:
 - ON WOOD POLES, REQUIRING A NEW RIGID GALVANIZED STEEL RISER, INSTALL A 2" RISER WITH WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
 - 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.
 - ON METAL STRAIN POLES, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
 - 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".
- IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER WITH 2" WEATHERHEAD.
- INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN.
(NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
- INSTALL WIRELESS RADIO WITH EXTERIOR DISCONNECT SWITCH LOCATED ON CABINET.
(NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
- MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
- REFERENCE SPREAD SPECTRUM RADIO ROADWAY STANDARD DRAWINGS 1736.01.
- CELL MODEMS TO BE SUPPLIED BY THE DEPARTMENT. CONTACT THE DEPUTY DIVISION TRAFFIC ENGINEER AT 828-298-0094 TO REQUEST THE CELL MODEM. ALLOW 8 WEEKS LEAD TIME BEFORE ANTICIPATED DEPLOYMENT.
- RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE NCDOT DIVISION 13 SIGNAL SHOP. THE DIVISION 13 OFFICE CAN BE REACHED AT (828) 251-6394.

Temporary Communications



HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997



SCALE
NONE

D13-24 RUTHERFORDTON
SIGNAL COMMUNICATIONS PLAN
WIRELESS RADIO COMMUNICATIONS

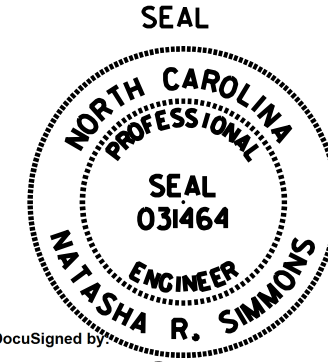
Division 13 Rutherford County Rutherfordton

PLAN DATE: February 2026 REVIEWED BY: N.K. Vianich

PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

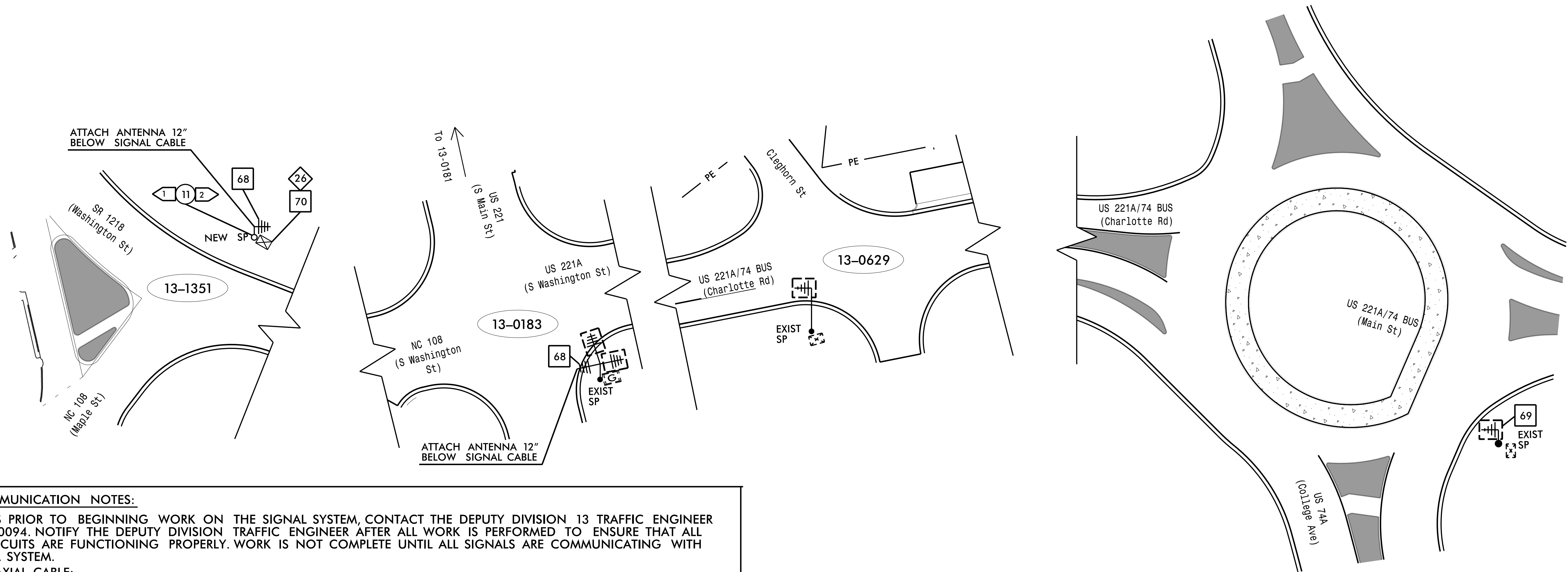


Signed by: *Notasha R. Simmons* 5/12/2026

SIGNATURE DATE

CADD Filename: HL-0065.SCP-2.dgn

**SEE R-2233BB PLANS FOR SIGNALS
13-1310, 13-1309 & 13-0828**



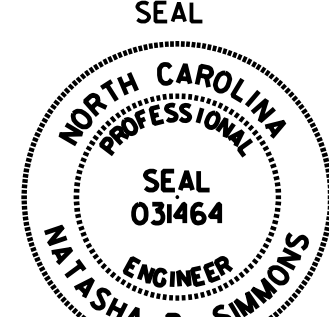
WIRELESS COMMUNICATION NOTES:

1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DEPUTY DIVISION 13 TRAFFIC ENGINEER AT 828-298-0094. NOTIFY THE DEPUTY DIVISION TRAFFIC ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL WIRELESS CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL ALL SIGNALS ARE COMMUNICATING WITH THE CENTRAL SYSTEM.
2. INSTALL COAXIAL CABLE:
 - A. ON WOOD POLES, REQUIRING A NEW RIGID GALVANIZED STEEL RISER, INSTALL A 2" RISER WITH WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
 - B. ON METAL POLES WITH MAST ARMS, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE MAST ARM; FIELD DRILL A 1/2" HOLE UP THROUGH THE BOTTOM OF MAST ARM FOR INSTALLATION OF THE COAXIAL CABLE TO THE ANTENNA.
 - C. ON METAL STRAIN POLES, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE WEATHERHEAD AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
 - D. BETWEEN THE POINT OF EXITING THE RISER, METAL POLE, OR MAST ARM AND THE ANTENNA, SECURE THE COAXIAL CABLE TO THE STRUCTURE USING 3/4" STAINLESS STEEL STRAPS EVERY 12".
3. IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER WITH 2" WEATHERHEAD.
4. INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN.
(NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
5. INSTALL WIRELESS RADIO WITH EXTERIOR DISCONNECT SWITCH LOCATED ON CABINET.
(NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
6. MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
7. REFERENCE SPREAD SPECTRUM RADIO ROADWAY STANDARD DRAWINGS 1736.01.
8. CELL MODEMS TO BE SUPPLIED BY THE DEPARTMENT. CONTACT THE DEPUTY DIVISION TRAFFIC ENGINEER AT 828-298-0094 TO REQUEST THE CELL MODEM. ALLOW 8 WEEKS LEAD TIME BEFORE ANTICIPATED DEPLOYMENT.
9. RETURN EXISTING WIRELESS RADIO EQUIPMENT TO THE NCDOT DIVISION 13 SIGNAL SHOP. THE DIVISION 13 OFFICE CAN BE REACHED AT (828) 251-6394.

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Final Communications

 750 N. Greenfield Hwy, Garner, NC 27529	D13-24 RUTHERFORDTON SIGNAL COMMUNICATIONS PLAN WIRELESS RADIO COMMUNICATIONS		 W. R. Simmons 5/12/2026
	Division 13 Rutherford County Rutherfordton PLAN DATE: February 2026 REVIEWED BY: N.K. Vianich PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons	REVISIONS INIT. DATE SIGNATURE DATE CADD Filename: HL-0065_SCP-3.dgn	

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