

OUTPUT CHANNEL CONFIGURATION

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
1	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	Phase Vehicle	5		X		5
6	Phase Vehicle	6		X	X	6
7	Phase Vehicle	7		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	8				16
17	Overlap	5		X	X	17
18	Overlap	6		X		18

OVERLAP PROGRAMMING

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

Web Interface
Home >Controller >Overlap Configuration >Overlaps
Overlap Plan 1

Overlap	1	2	3	4	6
Type	FYA 4 - Section	FYA 4 - Section	FYA 4 - Section	FYA 4 - Section	FYA 4 - Section
Included Phases	2	3,6	6	2,4	4
Modifier Phases	1	-	5	-	-
Modifier Overlaps	-	-	-	-	-
Trail Green	0	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0	0.0
FYA Ped Delay	7.0	7.0	7.0	7.0	7.0

PREEMPTION PROGRAMMING

Front Panel
Main Menu >Controller >Preemption >Preempt Phasing/Preempt Parameters

Web Interface
Home >Controller >Preempt Configuration >Preempts

Preempt Configuration

Preempt	3	4	5	6
Enabled	Enabled	Enabled	Enabled	Enabled
Type	Emergency Veh	Emergency Veh	Emergency Veh	Emergency Veh
Track Phases	-	-	-	-
Track Overlaps	-	-	-	-
Dwell Phases	1,6	2,5	3	4
Dwell Overlaps	1,2	3,4	-	6
Cycling Phases	-	-	-	-
Cycling Overlaps	-	-	-	-
Exit Phases	2,6	2,6	2,6	2,6
Exit Overlaps	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4
Delay	*	*	*	*
Max Presence	120	120	120	120
Call Ext Time	2.0	2.0	2.0	2.0
Max Pres Act	Terminate	Terminate	Terminate	Terminate
Enter Min Green	1	1	1	1
Enter Walk	0	0	0	0
Enter Ped Clear	255	255	255	255
Enter Yellow Change	25.5	25.5	25.5	25.5
Enter Red Clear	25.5	25.5	25.5	25.5
Track Green	0	0	0	0
Track Yellow Change	25.5	25.5	25.5	25.5
Track Red Clear	25.5	25.5	25.5	25.5
Dwell Green	*	*	*	*
Exit Min Green	255	255	255	255
Exit Yellow Change	25.5	25.5	25.5	25.5
Exit Red Clear	25.5	25.5	25.5	25.5
Dwell Ext Time	2.0	2.0	2.0	2.0
Exit Type	Exit Phases	Exit Phases	Exit Phases	Exit Phases
Non Locking Memory	X	X	X	X
Not Ovrd Flash	X	X	X	X
Not Ovrd Nxt Pre	X	X	X	X
Require All Red Entry	-	-	-	-
Track Clear Ovrd	X	X	X	X
Ped Clear During Yellow	X	X	X	X
Entry Omit OLTG	-	-	-	-
Track Clear Reserve	-	-	-	-

* Times to be determined by Division Traffic Engineer

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 13-0183
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

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

6

FLASHER CIRCUIT MODIFICATION DETAIL

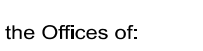
IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES

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 3 of 3

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:	US 221 Alt-US 74 Bus (Charlotte Rd)/NC 108 (Washington St) at US 221 (Main St)/US 221-74 Bus	SEAL 						
Prepared for the Office of: 	Division 13 Rutherford County Rutherfordton							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">PLAN DATE: February 2026</td> <td style="width: 33%;">REVIEWED BY: N. K. Vianich</td> <td style="width: 33%;"></td> </tr> <tr> <td>PREPARED BY: E.E. Tiller</td> <td>REVIEWED BY: N. R. Simmons</td> <td></td> </tr> </table>			PLAN DATE: February 2026	REVIEWED BY: N. K. Vianich		PREPARED BY: E.E. Tiller	REVIEWED BY: N. R. Simmons	
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750 N. Greenfield Pkwy, Garner, NC 27529								