

EMERGENCY VEHICLE PREEMPTION
PROGRAMMING DETAIL

(program controller as shown below)

From Main Menu press 'A' (Preemption), then '1' (Standard Preemptions). Press 'NEXT' as needed to advance to Preempts 3, 4, 5, and 6.

PREEMPTION #3			SETTINGS (NEXT:1-10)															
INTERVAL/TIMING			CLEAR/DWELL PHASES															
GRN	YEL	RED	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	255	0.0	0.0															
2	0	0.0	0.0	X	X													
3	0	0.0	0.0															
4	0	0.0	0.0															
5	1	0.0	0.0															

EXIT CALLS		OPTIONS												
PRIORITY (Y/N TO SELECT)		.....MED												
DELAY TIMER (0-255 SEC)		.....0												
MIN GREEN BEFORE PRE (0= DEFAULT)		....1												
PED CLEAR BEFORE PRE (0= DEFAULT)		....0												
YELLOW CLEAR BEFORE PRE (0= DEFAULT)		.0.0												
RED CLEAR BEFORE PRE (0= DEFAULT)		....0.0												
DWELL MIN TIMER (0-255 SEC)		.....12												
DWELL MAX TIMER (0=OFF,1-255MIN)		....2												
DWELL HOLD-OVER TIMER (0-255)		.....0												
LATCH CALL?		.....N												
LINK TO NEXT PREEMPT?		.....N												
ENABLE BACKUP PROTECTION?		.....N												
HOLD CLEAR 1 PHASES DURING DELAY?		...N												
FAST GREEN FLASH DWELL PHASES?		.....N												
PED CLEARANCE THROUGH YELLOW?		.....Y												
INHIBIT OVERLAP GREEN EXTENSION?		....N												
SERVICE DURING SOFTWARE FLASH?		.....N												
REST IN RED DURING DWELL INTERVAL?		..N												
FLASH DWELL INTERVAL?		.....N												
ALLOW PEDS IN DWELL INTERVAL?		.....N												
RE-TIME DWELL INTERVAL?		.....N												
OVERLAPS:		ABCDEFGHIJKLMNOP												
DWELL INT FLASH YELLOW														
OMIT OVERLAPS:		X												

PRESS 'NEXT'

PREEMPTION #4			SETTINGS (NEXT:1-10)															
INTERVAL/TIMING			CLEAR/DWELL PHASES															
GRN	YEL	RED	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	255	0.0	0.0	X	X													
2	0	0.0	0.0															
3	0	0.0	0.0															
4	0	0.0	0.0															
5	1	0.0	0.0															

EXIT CALLS		OPTIONS												
PRIORITY (Y/N TO SELECT)		.....MED												
DELAY TIMER (0-255 SEC)		.....0												
MIN GREEN BEFORE PRE (0= DEFAULT)		....1												
PED CLEAR BEFORE PRE (0= DEFAULT)		....0												
YELLOW CLEAR BEFORE PRE (0= DEFAULT)		.0.0												
RED CLEAR BEFORE PRE (0= DEFAULT)		....0.0												
DWELL MIN TIMER (0-255 SEC)		.....12												
DWELL MAX TIMER (0=OFF,1-255MIN)		....2												
DWELL HOLD-OVER TIMER (0-255)		.....0												
LATCH CALL?		.....N												
LINK TO NEXT PREEMPT?		.....N												
ENABLE BACKUP PROTECTION?		.....N												
HOLD CLEAR 1 PHASES DURING DELAY?		...N												
FAST GREEN FLASH DWELL PHASES?		.....N												
PED CLEARANCE THROUGH YELLOW?		.....Y												
INHIBIT OVERLAP GREEN EXTENSION?		....N												
SERVICE DURING SOFTWARE FLASH?		.....N												
REST IN RED DURING DWELL INTERVAL?		..N												
FLASH DWELL INTERVAL?		.....N												
ALLOW PEDS IN DWELL INTERVAL?		.....N												
RE-TIME DWELL INTERVAL?		.....N												
OVERLAPS:		ABCDEFGHIJKLMNOP												
DWELL INT FLASH YELLOW														
OMIT OVERLAPS:														

PRESS 'NEXT'

Program extend time on optical detector unit for 2.0 sec.

PREEMPTION #5			SETTINGS (NEXT:1-10)															
INTERVAL/TIMING			CLEAR/DWELL PHASES															
GRN	YEL	RED	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	255	0.0	0.0															
2	0	0.0	0.0	X														
3	0	0.0	0.0															
4	0	0.0	0.0															
5	1	0.0	0.0															

EXIT CALLS		OPTIONS												
PRIORITY (Y/N TO SELECT)		.....MED												
DELAY TIMER (0-255 SEC)		.....0												
MIN GREEN BEFORE PRE (0= DEFAULT)		....1												
PED CLEAR BEFORE PRE (0= DEFAULT)		....0												
YELLOW CLEAR BEFORE PRE (0= DEFAULT)		.0.0												
RED CLEAR BEFORE PRE (0= DEFAULT)		....0.0												
DWELL MIN TIMER (0-255 SEC)		.....7												
DWELL MAX TIMER (0=OFF,1-255MIN)		....2												
DWELL HOLD-OVER TIMER (0-255)		.....0												
LATCH CALL?		.....N												
LINK TO NEXT PREEMPT?		.....N												
ENABLE BACKUP PROTECTION?		.....N												
HOLD CLEAR 1 PHASES DURING DELAY?		...N												
FAST GREEN FLASH DWELL PHASES?		.....N												
PED CLEARANCE THROUGH YELLOW?		.....Y												
INHIBIT OVERLAP GREEN EXTENSION?		....N												
SERVICE DURING SOFTWARE FLASH?		.....N												
REST IN RED DURING DWELL INTERVAL?		..N												
FLASH DWELL INTERVAL?		.....N												
ALLOW PEDS IN DWELL INTERVAL?		.....N												
RE-TIME DWELL INTERVAL?		.....N												
OVERLAPS:		ABCDEFGHIJKLMNOP												
DWELL INT FLASH YELLOW														
OMIT OVERLAPS:		X												

PRESS 'NEXT'

PREEMPTION #6			SETTINGS (NEXT:1-10)															
INTERVAL/TIMING			CLEAR/DWELL PHASES															
GRN	YEL	RED	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	255	0.0	0.0															
2	0	0.0	0.0	X														
3	0	0.0	0.0															
4	0	0.0	0.0															
5	1	0.0	0.0															

EXIT CALLS		OPTIONS												
PRIORITY (Y/N TO SELECT)		.....MED												
DELAY TIMER (0-255 SEC)		.....0												
MIN GREEN BEFORE PRE (0= DEFAULT)		....1												
PED CLEAR BEFORE PRE (0= DEFAULT)		....0												
YELLOW CLEAR BEFORE PRE (0= DEFAULT)		.0.0												
RED CLEAR BEFORE PRE (0= DEFAULT)		....0.0												
DWELL MIN TIMER (0-255 SEC)		.....7												
DWELL MAX TIMER (0=OFF,1-255MIN)		....2												
DWELL HOLD-OVER TIMER (0-255)		.....0												
LATCH CALL?		.....N												
LINK TO NEXT PREEMPT?		.....N												
ENABLE BACKUP PROTECTION?		.....N												
HOLD CLEAR 1 PHASES DURING DELAY?		...N												
FAST GREEN FLASH DWELL PHASES?		.....N												
PED CLEARANCE THROUGH YELLOW?		.....Y												
INHIBIT OVERLAP GREEN EXTENSION?		....N												
SERVICE DURING SOFTWARE FLASH?		.....N												
REST IN RED DURING DWELL INTERVAL?		..N												
FLASH DWELL INTERVAL?		.....N												
ALLOW PEDS IN DWELL INTERVAL?		.....N												
RE-TIME DWELL INTERVAL?		.....N												
OVERLAPS:		ABCDEFGHIJKLMNOP												
DWELL INT FLASH YELLOW														
OMIT OVERLAPS:														

PROGRAMMING COMPLETE

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.

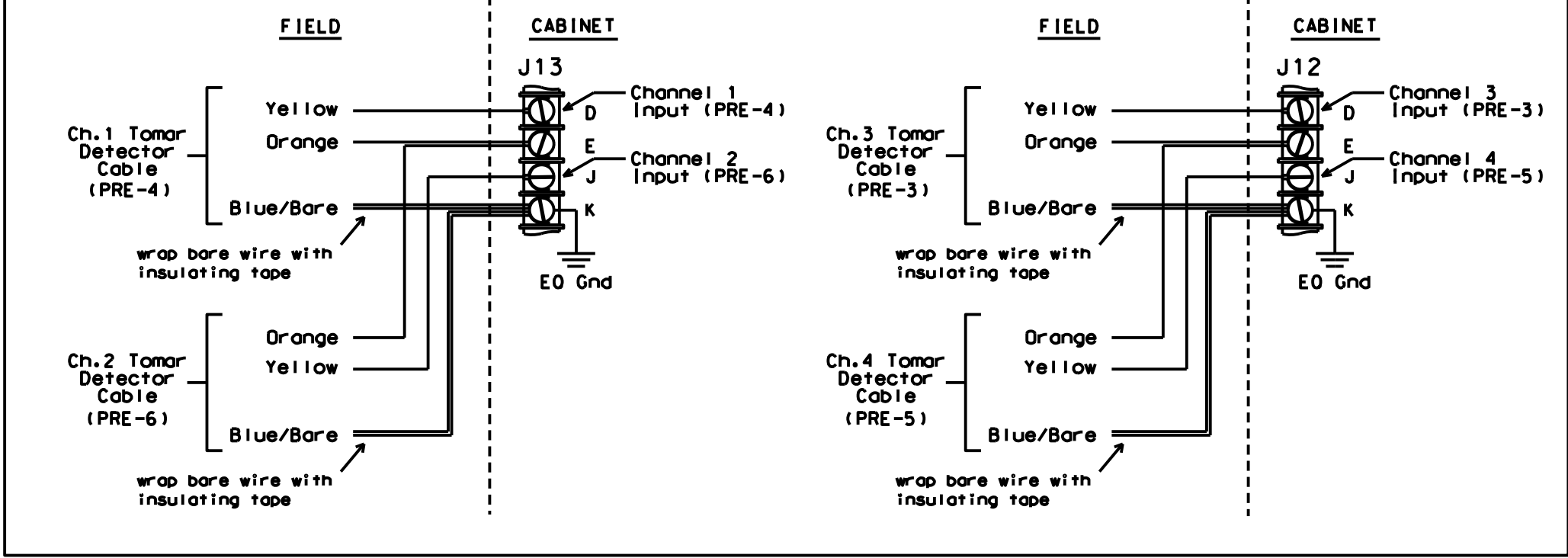
THE CHANGES LISTED ABOVE TIE ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

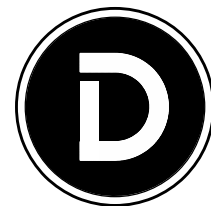
TYPICAL TOMAR FIELD WIRE DETAIL

(input file, rear view)



Project #: 230907

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-0822
DESIGNED: May 2025
SEALED: 07/07/2025
REVISED: N/A



DAVENPORT
HOME OFFICE:
119 BROOKSTOWN AVENUE, SUITE PH1
WINSTON-SALEM, NC 27101
336.744.1636 www.davenportworld.com
NCBELS FIRM LICENSE NO. C-2822

Electrical Details - Sheet 6 of 6



ELECTRICAL AND PROGRAMMING DETAILS FOR:		NC 53 (Western Boulevard) at SR 2714 (Jacksonville Parkway))/ Gateway North	
Division 03		Onslow County Jacksonville	
PLAN DATE:	May 2025	REVIEWED BY:	L. Boyer
PREPARED BY:	J. Dollarhite	REVIEWED BY:	
REVISIONS		INIT.	DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER	
SEAL 030912	Signed by: Lori M. Boyer 07/07/2025
SIGNATURE	DATE
SIG. INVENTORY NO. 03-0822	