

**EMERGENCY VEHICLE PREEMPTION PROGRAMMING**

1. Program EVB preempt as follows:  
Main Menu - 2) PREEMPT - 4) EMERGENCY VEHICLE  
EVB Clear = 2  
EVB Clearance Phases = 3,8
2. Program general preemption parameters as follows:  
Main Menu - 2) PREEMPT - 6) MISC PREEMPTION PARAMETERS  
Min Time Before PE ForceOff = 1
3. Ped Clear Before Preempt is a pedestrian timing parameter, and is programmed as follows:  
Main Menu - 1) PHASE - 5) PEDESTRIAN TIMING  
PHASE 2 MIN FDW = 5  
PHASE 4 MIN FDW = 7  
PHASE 6 MIN FDW = 4  
PHASE 8 MIN FDW = 7

Program extend time on optical detector units for 2.0 sec for EVB

**FYA PPLT PROGRAMMING  
(SIGNAL HEAD 31)**

1. Program Flashing Yellow Arrow phases as follows:  
Main Menu - 1) PHASE - 2) PHASE FUNCTIONS PAGE TWO  
PPLT FYA = PHASE 3
2. Assign output pin for Flashing Yellow Arrow as follows:  
Main Menu - 6) OUTPUTS - F) FYA PPLT  
Phase 3 = 96
3. Redirect RED and YELLOW outputs for the left turn phases as follows:  
Main Menu - 6) OUTPUTS - 8) REDIRECT PHASE  
Phase 3 RED = 94, Phase 3 YELLOW = 95

**SPECIAL NOTE EV PREEMPT PROGRAMMING**

Setting 'FYA DURING PREEMPT' to 'Y' eliminates yellow trap when transitioning to preempt from adjacent through phase.  
Main Menu - 9) UTILITIES - 9) MISC  
FYA DURING PREEMPT (Y/N) = Y

**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.

**MIN WALK DURING PREEMPTION PROGRAMMING**

To disable MIN WALK pedestrian timing during preemption, program the controller as follows:  
Main Menu - 9) UTILITIES - 5) CONFIGURATION  
EXTRA TWO = 3

**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.

**OVERLAPS (1), (3) & (4) PROGRAMMING DETAIL**

Program overlaps as follows:  
Main Menu - 4) OVERLAP

OVERLAP [1]:  
LOADSWITCH = 9  
VEH SET 1 = 2.6  
YELLOW CLEARANCE = 3.7  
RED CLEARANCE = 2.4

Press "+" Twice

OVERLAP [3]:  
LOADSWITCH = 11  
VEH SET 1 = 2.6  
YELLOW CLEARANCE = 3.7  
RED CLEARANCE = 2.4

Press "+"

OVERLAP [4]:  
LOADSWITCH = 12  
VEH SET 1 = 4.8  
YELLOW CLEARANCE = 4.4  
RED CLEARANCE = 2.4

END OF OVERLAP PROGRAMMING

**OVERLAP GREEN FLASH PROGRAMMING  
(SIGNAL HEAD 21, 41 & 61)**

The following will cause the overlap green output to flash, which is wired to the FYA. Program as follows:

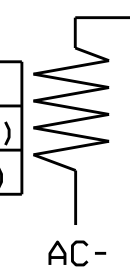
Main Menu - 1) PHASE - 2) PHASE FUNCTIONS PAGE TWO  
OLAP G FL = 1, 3, 4

**STARTUP CALLS PROGRAMMING**

Prevents Veh Call to phase 3 during Startup. Phase 3 used only during Preempt.

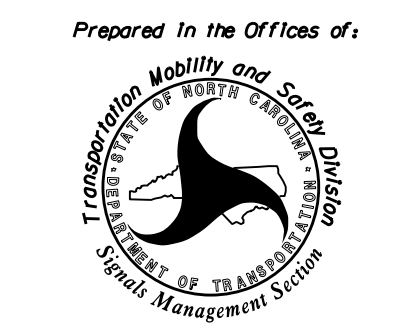
Main Menu - 9) UTILITIES - 1) STARTUP  
VEHICLE CALLS 2,4,6,8

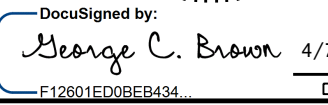
**LOAD RESISTOR INSTALLATION DETAIL**

ACCEPTABLE VALUES		PHASE 3 YELLOW FIELD TERMINAL (117)
VALUE (ohms)	WATTAGE	
1.5K - 1.9K	25W (min)	
2.0K - 3.0K	10W (min)	

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1029  
DESIGNED: September 2014  
SEALED: 4/2/15  
REVISED: N/A

Electrical Detail - Sheet 2 of 2 (Final)

ELECTRICAL AND PROGRAMMING DETAILS FOR:		NC 55 (North Alston Avenue) at Liberty St	
Prepared In the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27529		Division 5 PLAN DATE: November 2014 PREPARED BY: B. SIMMONS	Durham County REVIEWED BY: T. Joyce REVIEWED BY:
REVISIONS	INIT.	DATE	

DocuSigned by:  
  
4/7/2015  
F12051E008B8434  
SIC. INVENTORY NO. 05-1029

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