(program controller as shown below)

EMERGENCY VEHICLE PREEMPTION

PROGRAMMING DETAIL

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

GRN YEL RED 1234 1 255 0.0 0.0 X 2 0 0.0 0.0	45678910111213141516 X
3 0 0.0 0.0 4 0 0.0 0.0 5 0 0.0 0.0	
EXIT CALLS ; OPTIONS	
YELLOW CLEAR BEFORE FRED CLEAR BEFORE PRED DWELL MIN TIMER (0-25) DWELL MAX TIMER (0-25) DWELL HOLD-OVER TIMER LATCH CALL?	CO

PREEMPTION #4 SETTINGS (NEXT:1-10) INTERVAL/TIMING : CLEAR/DWELL PHASES GRN YEL RED | 12345678910111213141516 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 0 0.0 0.0 EXIT CALLS OPTIONS PRIORITY (Y/N TO SELECT)MED DELAY TIMER (0-255 SEC) MIN GREEN BEFORE PRE (O= DEFAULT)....1 PED CLEAR BEFORE PRE (O= DEFAULT)....O YELLOW CLEAR BEFORE PRE (0= DEFAULT).0.0 RED CLEAR BEFORE PRE (O= DEFAULT)....O.O DWELL MIN TIMER (0-255 SEC)12 DWELL MAX TIMER (0=OFF,1-255MIN)0 DWELL HOLD-OVER TIMER (0-255)0 LATCH CALL?N LINK TO NEXT PREEMPT? 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 | ABCDEFGHIJKLMNOP OVERLAPS: DWELL INT FLASH YELLOW OMIT OVERLAPS:

PRESS 'NEXT'

PREEMPTION #5 SETTINGS (NEXT:1-10) INTERVAL/TIMING ; CLEAR/DWELL PHASES GRN YEL RED | 12345678910111213141516 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 0 0.0 0.0 EXIT CALLS OPTIONS PRIORITY (Y/N TO SELECT)MED DELAY TIMER (0-255 SEC) MIN GREEN BEFORE PRE (O= DEFAULT)....1 PED CLEAR BEFORE PRE (O= DEFAULT)....O YELLOW CLEAR BEFORE PRE (0= DEFAULT).0.0 RED CLEAR BEFORE PRE (O= DEFAULT)....O.O DWELL MAX TIMER (0=OFF.1-255MIN)0 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? ALLOW PEDS IN DWELL INTERVAL?N RE-TIME DWELL INTERVAL?N | ABCDEFGHIJKLMNOP OVERLAPS: DWELL INT FLASH YELLOW OMIT OVERLAPS:

PROGRAMMING COMPLETE

Program extend time on optical detector unit for 2.0 seconds.

OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS).

PAGE 1: VEHICLE OVERLAP 'A' SETTINGS \\ 12345678910111213141516 VEH OVL PARENTS: X VEH OVL NOT VEH: VEH OVL NOT PED: VEH OVL GRN EXT: STARTUP COLOR: _ RED _ YELLOW _ GREEN FLASH COLORS: _ RED _ YELLOW _ GREEN SELECT VEHICLE OVERLAP OPTIONS: (Y/N) FLASH YELLOW IN CONTROLLER FLASH?...N GREEN EXTENSION (0-255 SEC)..... YELLOW CLEAR (O=PARENT,3-25.5 SEC)..0.0 RED CLEAR (0=PARENT,0.1-25.5 SEC)...0.0 OUTPUT AS PHASE # (0=NONE, 1-16)....0

PRESS '+'

PAGE 1: VEHICLE OVERLAP 'B' SETTINGS ¦12345678910111213141516 PHASE: VEH OVL PARENTS: | VEH OVL NOT VEH: VEH OVL NOT PED: VEH OVL GRN EXT: STARTUP COLOR: _ RED _ YELLOW _ GREEN FLASH COLORS: _ RED _ YELLOW _ GREEN SELECT VEHICLE OVERLAP OPTIONS: (Y/N) FLASH YELLOW IN CONTROLLER FLASH?...N GREEN EXTENSION (0-255 SEC)..... YELLOW CLEAR (O=PARENT,3-25.5 SEC)..0.0 RED CLEAR (0=PARENT,0.1-25.5 SEC)...0.0 OUTPUT AS PHASE # (0=NONE, 1-16)....0

PRESS '+' TWICE

PAGE 1: VEHICLE OVERLAP 'D' SETTINGS PHASE: ¦12345678910111213141516 VEH OVL PARENTS: : VEH OVL NOT VEH: VEH OVL NOT PED: VEH OVL GRN EXT: | STARTUP COLOR: _ RED _ YELLOW _ GREEN FLASH COLORS: _ RED _ YELLOW _ GREEN SELECT VEHICLE OVERLAP OPTIONS: (Y/N) FLASH YELLOW IN CONTROLLER FLASH?...N GREEN EXTENSION (0-255 SEC).....0 YELLOW CLEAR (0=PARENT,3-25.5 SEC)..0.0 RED CLEAR (0=PARENT.0.1-25.5 SEC)...0.0 OUTPUT AS PHASE # (0=NONE, 1-16)....0

OVERLAP PROGRAMMING COMPLETE

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0091 DESIGNED: October 2016 SEALED: 10-20-16 REVISED: N/A

DOCUMENT NOT CONSIDERED FINAL Electrical Detail -Sheet 2 of 2 UNLESS ALL SIGNATURES COMPLETED SEAL

ELECTRICAL AND PROGRAMMIN REVISION V SEAL

DETAILS FOR Prepared in the Offices of:

US 17 Bus. (Marine Boulevard) SR 1336/1718 (Onslow Dr)

ivision 03 PLAN DATE: 5 - 5 - 11 REVIEWED BY: PREPARED BY: D.H. Spaulding | REVIEWED BY: REVISIONS Upgraded loops, no change to electrical detail.(JP) KMM | 11–10–16

This document is only certified as to the revisions. SIGNATURE

750 N.Greenfield Pkwy.Garner.NC 27529

SIG. INVENTORY NO. 03-0091

Not a certified document as to the

Original Document but Only as to the Revisions - This document

originally issued and sealed by

Geroge C. Brown. PE #022013. on 5-27-11.