PROJECT REFERENCE NO. Sig 7.5

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.

FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO ENSURE 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.

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 and 5.

PREEMPTION #3 SETTINGS (NEXT:1-10) INTERVAL/TIMING CLEAR/DWELL PHASES GRN YEL RED 12345678910111213141516 1 255 0.0 0.0 X
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 (O= DEFAULT).0.0
RED CLEAR BEFORE PRE (0= DEFAULT)0.0
DWELL MIN TIMER (0-255 SEC)7
DWELL MAX TIMER (0=0FF,1-255MIN)2
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?
OVERLAPS: ABCDEFGHIJKLMNOP
DWELL INT FLASH YELLOW
OMIT OVERLAPS:

PRESS 'NEXT' TWICE

PREEMPTION #5 SETTINGS (NEXT:1-10) INTERVAL/TIMING CLEAR/DWELL PHASES GRN YEL RED 1234567891011121314151 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 X X	
EXIT CALLS OPTIONS PRIORITY (Y/N TO SELECT)	€ 0 0

PROGRAMMING COMPLETE

Program extend time on detector unit for 2.0 seconds.

* Time defaults to time used for phase during normal operation.

ALTERNATE PHASING ACTIVATION DETAIL

TO RUN ALT. PHASING DURING COORDINATION — SELECT ALL PAGE CHANGES (AS SHOWN BELOW) WITHIN COORDINATION PLAN PROGRAMMING.

TO RUN ALT, PHASING DURING <u>FREE RUN</u> — PROGRAM PAGE CHANGES (SHOWN BELOW) IN SEPARATE TIME OF DAY EVENTS. IF PAGE 1 IS USED, NO EVENT PROGRAMMING IS NECESSARY FOR THAT PARTICULAR PAGE.

PHASING	INPUTS PAGE	OVERLAPS PAGE
ACTIVE PAGES REQUIRED TO RUN <u>DEFAULT PHASIN</u> G	1	1
ACTIVE PAGES REQUIRED TO RUN <u>ALTERNATE PHASING</u>	2	2

NOTE: PAGES NOT SHOWN (i.e. sequence, phase control, etc.) SHOULD REMAIN AS '1', OR AS DEFINED BY TIMING ENGINEER.

IMPORTANT: IF ALT. PHASING IS USED DURING FREE RUN AND COORDINATION, DO NOT OPERATE TIME OF DAY PAGE CHANGE EVENTS CONCURRENTLY WITH COORDINATION PLAN EVENTS IN THE EVENT SCHEDULER. (EX. FREE RUN PAGE CHANGE EVENT SHOULD END BEFORE COORDINATION PLAN EVENT STARTS AND VICE-VERSA).

ALTERNATE PHASING PAGE CHANGE SUMMARY

THE FOLLOWING IS A SUMMARY OF WHAT TAKES PLACE WHEN THESE OVERLAP/INPUT PAGE CHANGES ACTIVATE TO CALL THE "ALTERNATE PHASING":

OVERLAPS PAGE 2: Modifies overlap parent phases for heads 11 and 51 to run protected

turns only.

INPUTS PAGE 2: Disables phase 6 call on loop 1A and reduces delay time for phase 1

call on loop 1A to 0 seconds.

Disables phase 2 call on loop 5A and reduces delay time for phase 5 call on loop 5A to 3 seconds.

> THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: Ø9-Ø991 DESIGNED: NOVEMBER 2021 SEALED: 12/3/2021 REVISED: N/A

Final Design Electrical Detail - Sheet 5 of 5

ELECTRICAL AND PROGRAMMING

750 N.Greenfield Pkwy, Garner, NC 27529

SR 2528 (Julian Rd) I-85/US 601 SB Ramps and

SR 2762 (Klumac Rd) PLAN DATE: November 2021 REVIEWED BY: B. Phillips

PREPARED BY: Z. "Gavin" Teng | REVIEWED BY: REVISIONS INIT. DATE

032179 Eurolong ting 12/3/2021 SIG. INVENTORY NO. 09-0991

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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