(remove jumpers and set switches as shown)

2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.

3. Ensure that the Red Enable is active at all times during normal operation.

INPUT FILE POSITION LAYOUT

(front view)

1 2 3 4 5 6 7 8 9 10 11 12 13 14

INPUT FILE CONNECTION & PROGRAMMING CHART

PED 8/4*

INPUT PIN INPUT DETECTOR CALL DELAY EXTEND EXTEND

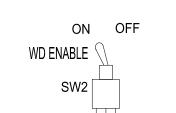
INPUT FILE POSITION LEGEND: J2L

SLOT 2

LOWER

TERMINAL FILE POS. NO. POINT NO. PHASE TIME TIME

4. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



USED USED

FS = FLASH SENSE

ADDED

ST = STOP TIME

 \emptyset 4 PED \emptyset 8 PED ST

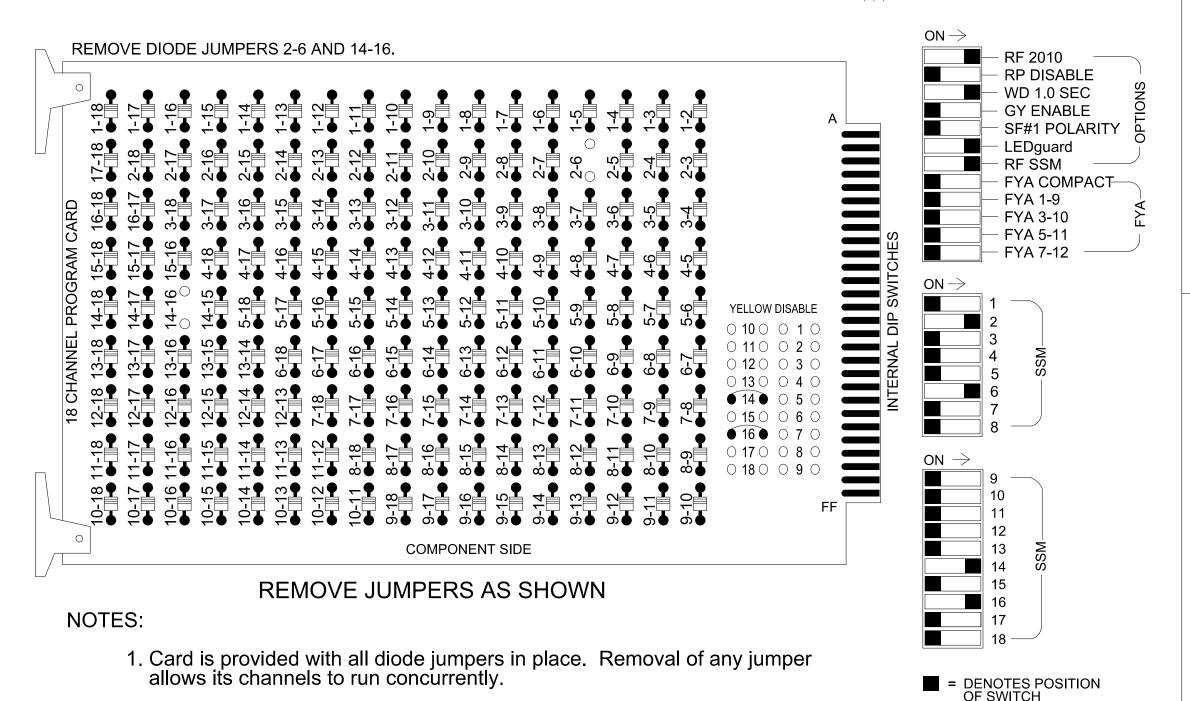
ISOLATOR | ISOLATOR | ISOLATOR |

CALL

DELAY

DURING

GREEN



NOTES

- 1. To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
- 2. Install most current version of 332 NCDOT HAWK default database onto controller.
- 3. Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- 4. Program phases 4 and 8 for No Startup Veh Call and No Startup Ped Call.
- 5. Program phases 4 and 8 for Ped Clear During Red Clear.

EQUIPMENT INFORMATION

Controller	2070LX
Cabinet	336
Software	Q-Free MAXTIME
Cabinet Mount	Pole
Output File Positions	12
Load Switches Used	S2, S6, S8, S12
Phases Used	2, 4*, 4PED, 6, 8*, 8PED
Overlaps	NONE

*Phase used for timing purposes only.

U-5797

Sig. 29.1

SIGNAL HEAD HOOK-UP CHART 1 2 13 3 4 14 5 6 15 7 8 16 NU 21,22 NU NU NC P41 NU 21,22 NU NU NC P81 RED 134 YELLOW 129 GREEN RED ARROW YELLOW ARROW YELLOW ARROW GREEN ARROW 106 112

NU = Not Used NC = Not Connected

Load Switch S2 RED

(Phase 2 Red - 128)

Load Switch S2 YELLOW

*Denotes install load resistor. See load resistor installation detail this sheet. ★See pictorial of head wiring in detail this sheet.

SIGNAL HEAD WIRING DETAIL

R

(wire signal heads as shown)

R

TIMING INTERVAL

PHASE 2+6 GREEN = DARK DISPLAY PHASE 2+6 PRE CLEARANCE = FLASHING YELLOW DISPLAY PHASE 2+6 YELLOW CHANGE = STEADY YELLOW DISPLAY PHASE 2+6 RED CLEAR = STEADY RED DISPLAY PED 4+8 WALK = STEADY RED DISPLAY

OPERATIONAL NOTES

- 1. In order for the controller to perform the Pedestrian Hybrid Beacon (HAWKK signal) sequence, the 336 NCDOT HAWK default database must be installed on the controller.
- 2. The Logic Processor flashes Phse 2 Yellow during the Phase 2 Pre-Clearance interval. Phase 2 Yellow drives the solid yellow signal face during the Phase 2 vehicle Yellow Change.
- 3. The Phase 2 and Phase 6 Red outputs drives the solid Red displays during the Phase 2 and 6 Red Clear and Ped 4 and 8 Walk interval. The Logic Processor flashes Phase 2 and 6 Red Outputs in a wig-wag pattern during Phase 4 Ped Clear interval.
- 4. The controller must be programmed for Ped Clear During Red Clear for Pedestrian Phases 4 and 8 so that Red displays continue to flash during Phases 4 and 8 Yellow Change and Red Clear.
- 5. Make sure that all Phase 2 and Phase 6 timings match each other and that all Phase 4 and Phase 8 timings match each other.
- 6. The Ped 4 push button is programmed to call Ped 4 and Ped 8. The Ped 8 push button is programmed to call Ped 8 and Ped 4.

REVISED:

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-1416T2 DESIGNED: Feb 2025 SEALED:^{2/10/2025}

STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 (704) 372-1885

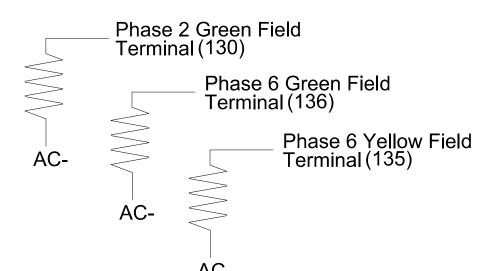
NC License Number F-0991

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

21, 22 61, 62

ACCEPTABLE VALUES Value (ohms) Wattage 1.5K - 1.9K 25W (min) 2.0K - 3.0K | 10W (min)



Load Switch S8 RED

(Phase 6 Red - 134)

Temporary Design 2 (TMP Phase II, Step 3) Electrical Detail - Sheet 1 of 1

ELECTRICAL AND PROGRAMMING DETAILS FOR:

50 N.Greenfield Pkwy, Garner, NC 27529

SR 1997 (Fayetteville Road)

Pedestrian Hybrid Beacon/ Robeson County Division 6

REVISIONS

N. of SR 1948 (Linkhaw Road) Lumberton Feb 2025 REVIEWED BY: H.M. Surti PLAN DATE: PREPARED BY: R.L. Aristondo | REVIEWED BY: T.M. Moody

SEAL SEAL 040329 INIT. DATE

DOCUMENT NOT CONSIDERED

FINAL UNLESS ALL

SIGNATURES COMPLETED

Trent Moody 2/10/2025 SIG. INVENTORY NO. 06-1416T2

FILE

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

I12L

TB24-11,12 | I13L | 70 | 36

69

FOR THE ABOVE DETECTORS TO CALL ANOTHER PHASE, SCROLL OVER AND ENTER THE SECOND PHASE IN "ADDITIONAL CALL PHASES" COLUMN.

35

EX.: 1A, 2A, ETC. = LOOP NO.'S

TB24-9,10

LOOP NO.

PED PUSH

BUTTONS

P41;P42

P81;P82

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.

INSTALL DC ISOLATORS
IN INPUT FILE SLOTS
I12 AND I13.