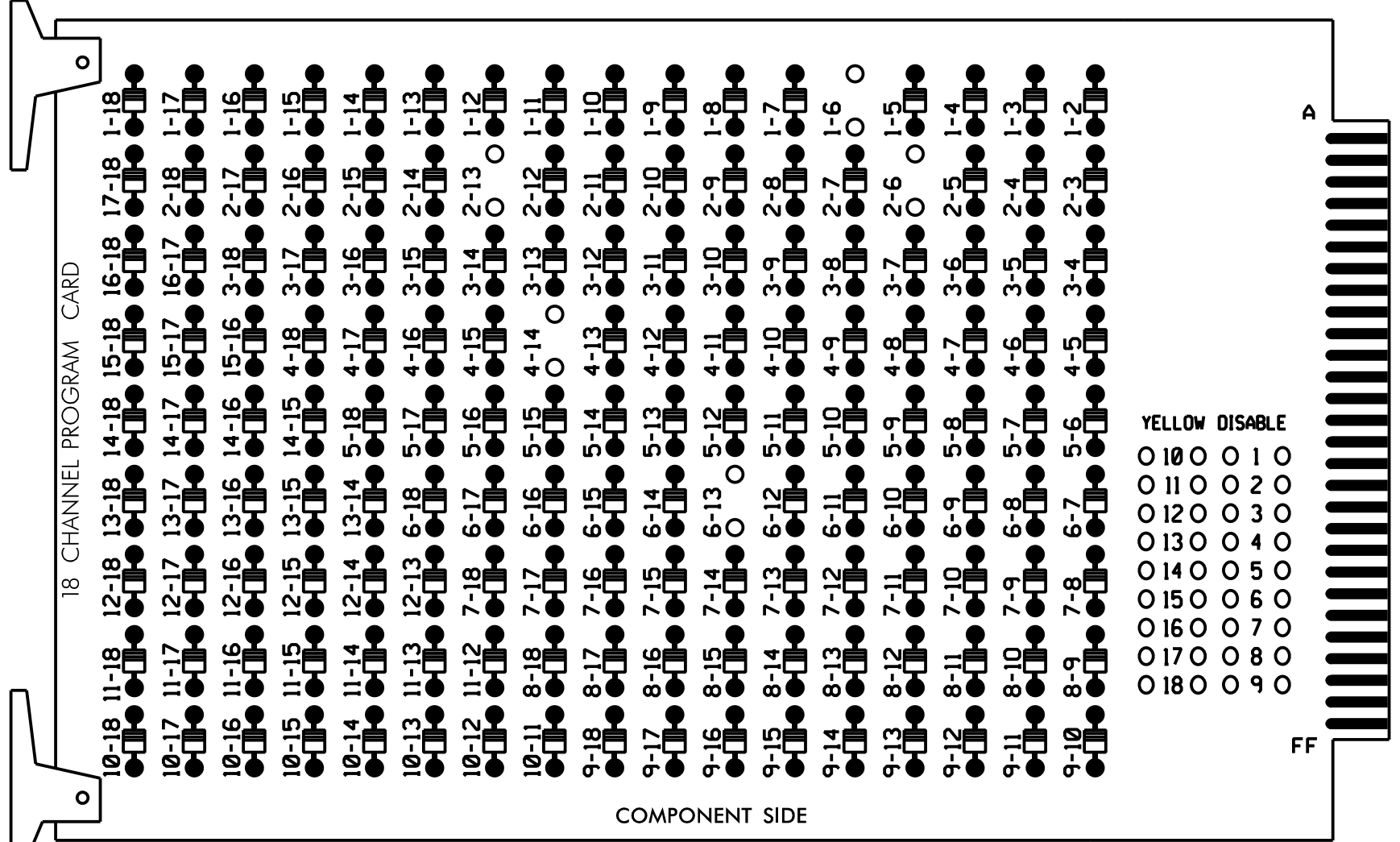


18 CHANNEL CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

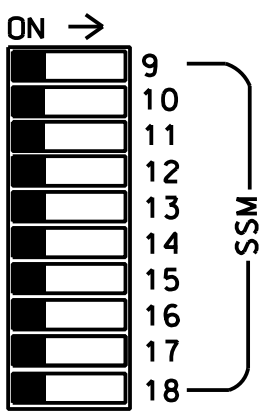
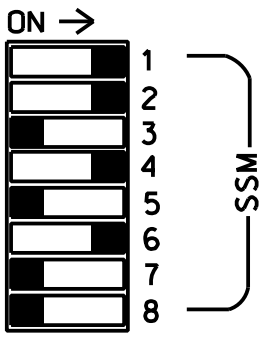
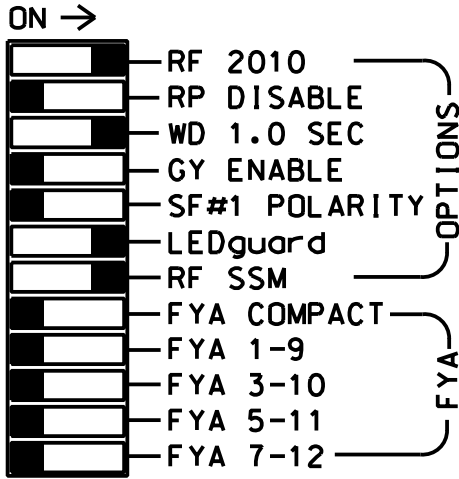
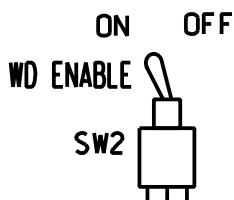
REMOVE DIODE JUMPERS 1-6, 2-6, 2-13, 4-14 and 6-13.



REMOVE JUMPERS AS SHOWN

NOTES:

- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
- Ensure that Red Enable is active at all times during normal operation.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



■ = DENOTES POSITION OF SWITCH

NOTES

- 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 Plans.
- Program controller to start up in phases 2 and 6 Green/Don't Walk.
- Enable Simultaneous Gap-Out feature for all phases.
- The cabinet and controller are part of the Hickory City Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070LX
CABINET.....332 W/ AUX
SOFTWARE.....SE-PAC2070 VER. 5.4
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED.....S1,S2,S3,S5,S6,S8
PHASES USED.....1,2,2 PED,4,4 PED,6,*6 PED
OVERLAP "A".....NOT USED
OVERLAP "B".....NOT USED
OVERLAP "C".....NOT USED
OVERLAP "D".....NOT USED

* Phase used for timing purposes only.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	61	21	22	P21, P22	NU	41,42	P43, P44	NU	61	62	NC	NU	NU	NU	NU	NU	NU	NU
RED	*	128	128		101			134	134									
YELLOW		129	129		102			135	135									
GREEN			130		103			136										
RED ARROW																		
YELLOW ARROW	126																	
FLASHING YELLOW ARROW																		
GREEN ARROW	127	130						136										
Hand icon				113		104												
Walking person icon				115		106												

NU = Not Used
NC = Not Connected
* Denotes install load resistor. See load resistor installation detail this sheet.

INIT & N.A. RESP PROGRAMMING DETAIL

(program controller as shown below)

From the Main Menu, Press '3' (Phase Data)

PHASE MENU

1-VEHICLE DATA 6-SPEC. SEQUENCE+
2-DENSITY TIMES+ 7-DETECTOR DATA
3-PEDESTRIAN DATA 8-PHASE & BANK COPY
4-INIT & NA RESP+ 9-SELECT PHASE BANK
5-N.LOCK & MISC+

'+' DENOTES BANKABLE DATA [1]

PHASES 3,5,7,8 NOT USED!

PHASE....1...2...3...4...5...6...7...8
INITIAL 1 6 0 1 0 6 0 0
NA RESP 2 1 0 2 0 1 0 0

CODES....0...1...2...3...4...5...6
INITL NONE INACT RED YEL GRN DRK G/DW
NA RSP NONE NA1 NA2 1&2 --- --- ---

* * *

CODE 6 (G/DW) ALLOWS PHASES 2 AND 6 TO START IN GREEN AND SKIP THE PED PHASE

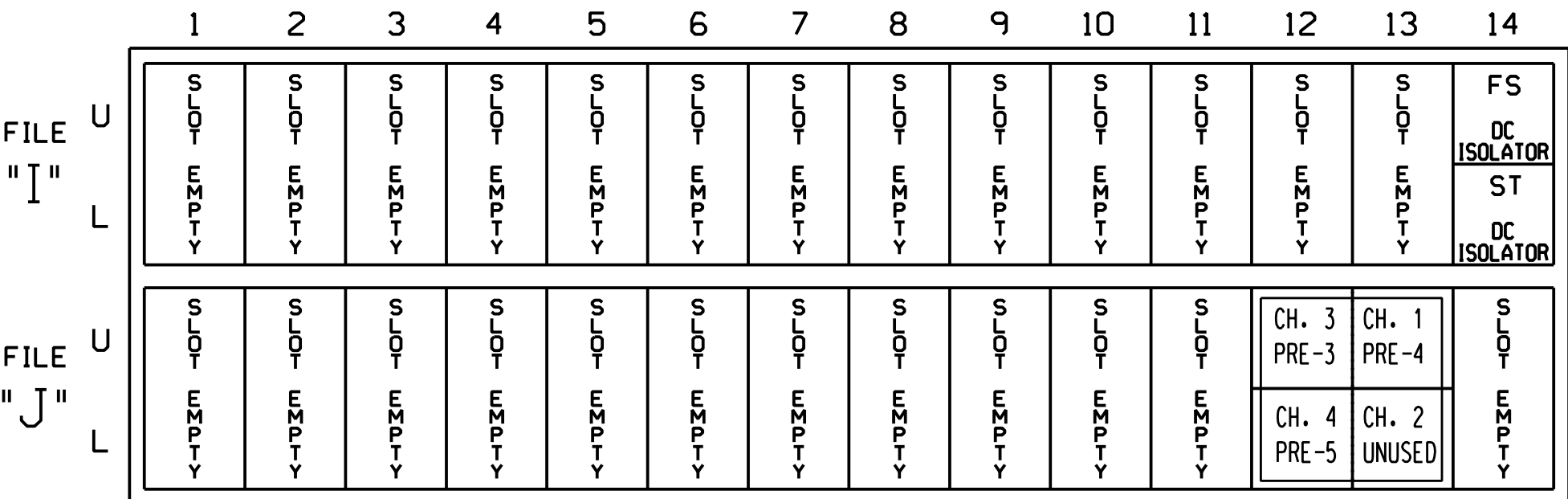
INIT & N.A. RESP PROGRAMMING COMPLETE

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.

INPUT FILE POSITION LAYOUT

(front view)



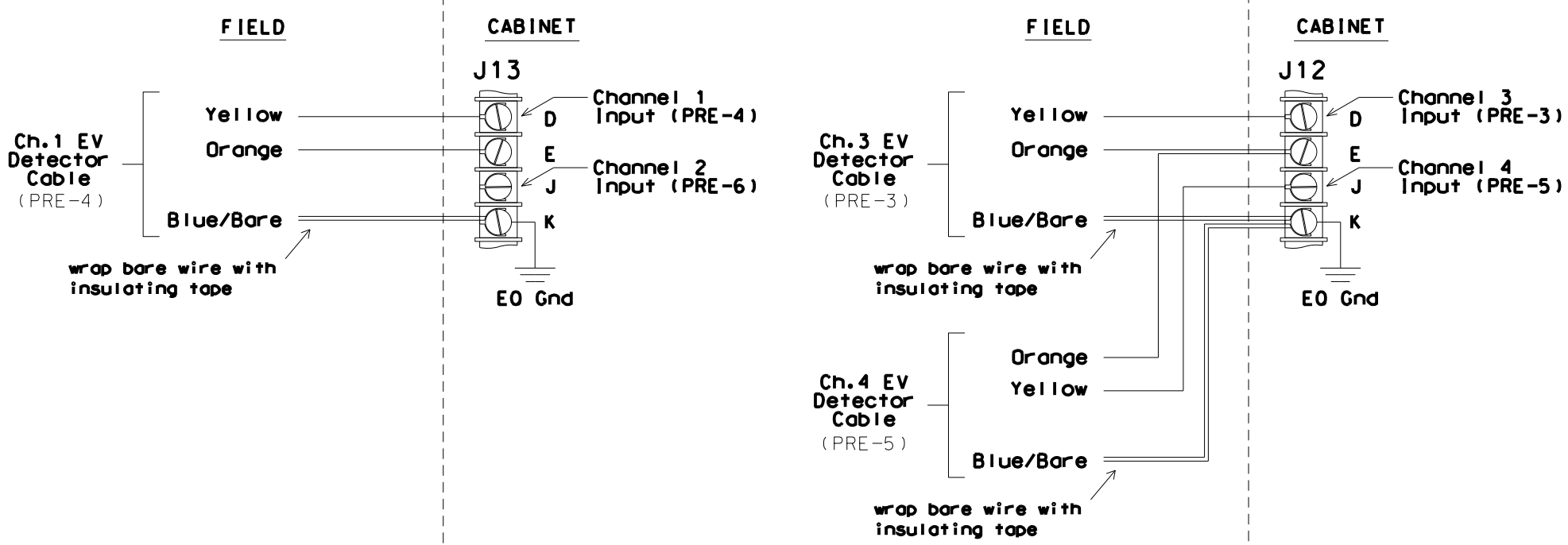
EX. : 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME
PRE = PREEMPT

4 CHANNEL EV OSP CARD
INSERT CARD INTO
SLOT J13

TYPICAL EV FIELD WIRE DETAIL

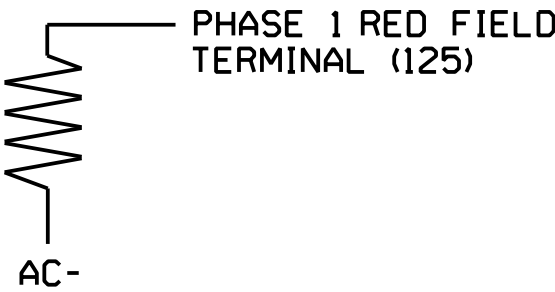
(input file, rear view)



LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

ACCEPTABLE VALUES	
VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



HNTB NORTH CAROLINA, P.C.
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(919) 546-8997

Signal Upgrade-
Electrical Detail - Sheet 1 of 3
(Construction Phase 1)

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 12-094511
DESIGNED: October 2023
SEALED: 09/06/2024
REVISED: N/A

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING
DETAILS FOR:

Prepared for:
Hickory City
Signal Management System

NC 127 SE
at
SR 2231 (2nd Ave SE)

Division 12 Catawba County Hickory

PLAN DATE: January 2024 REVIEWED BY: N.K. Vianich
PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons

REVISIONS INIT. DATE

DocuSigned by:
Natasha R. Simmons 9/6/2024
SIGNATURE DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
031464
NATASHA R. SIMMONS

SIG. INVENTORY NO. 12-094511