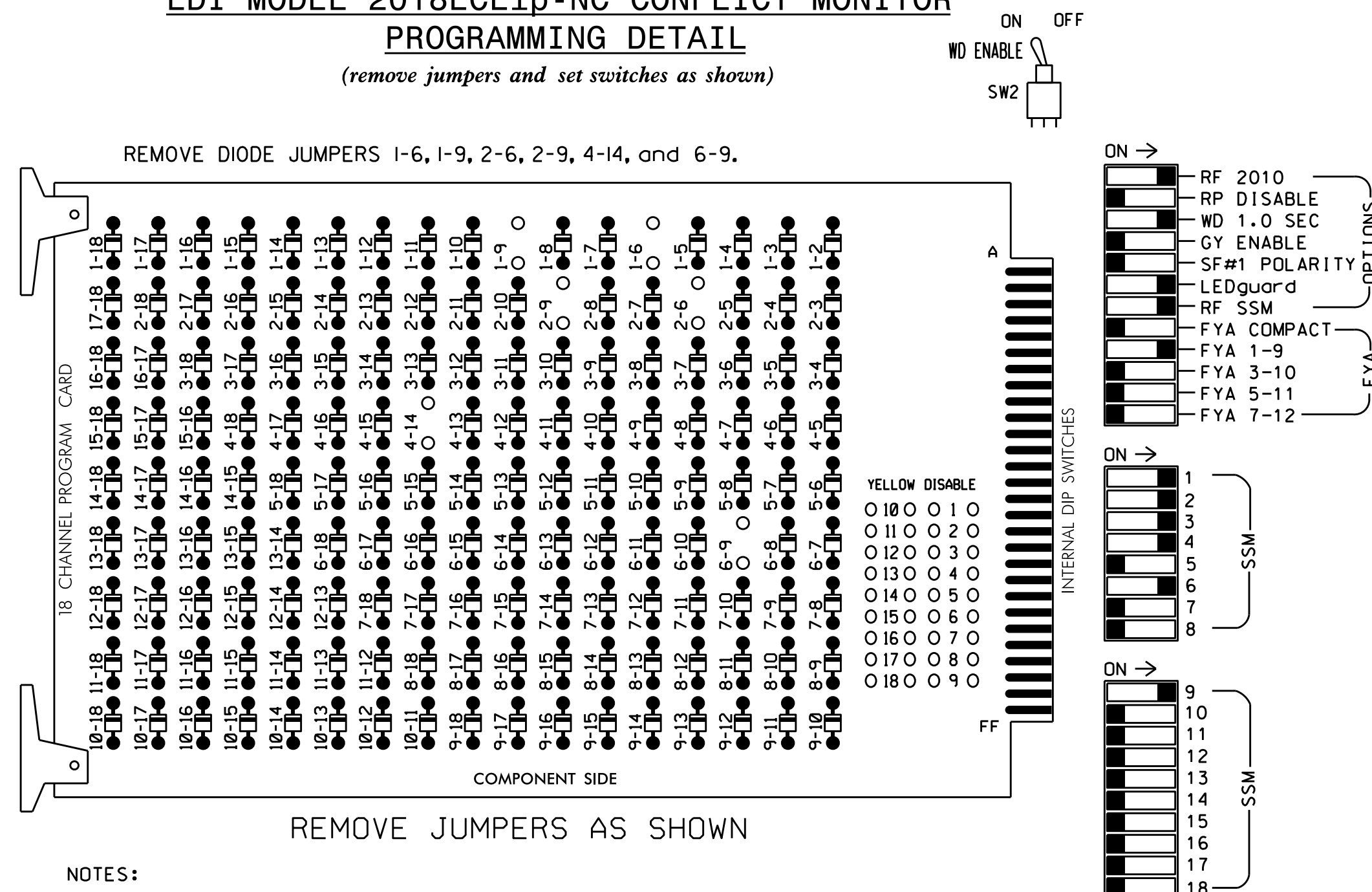


EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

■ = DENOTES POSITION OF SWITCH

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 Plans.
2. Enable Simultaneous Gap-Out for all phases.
3. Program phases 2 and 6 for Start Up In Green.
4. Program phase 4 for 'STARTUP PED CALL'.
5. Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
6. The cabinet and controller are part of the Asheville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S4,S5,S6,S8,AUX S1
 PHASES USED.....1,2,3,4,4PED,6
 OVERLAP "A".....1+2
 OVERLAP "B".....NOT USED
 OVERLAP "C".....NOT USED
 OVERLAP "D".....NOT USED

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.	11	42	21,22	31	32	41	42	P41, P42	NU	61,62	NU	NU	NU	NU	NU	NU	NU	NU
RED	*	128		116	116	101	101			134								
YELLOW			129	117	117	102	102			135								
GREEN			130	118	118	103	103			136								
RED ARROW													A121					
YELLOW ARROW		126											A122					
FLASHING YELLOW ARROW													A123					
GREEN ARROW	127	127		118		103												
Hand icon								104										
Person icon								106										

NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

INPUT FILE POSITION LAYOUT

(front view)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅2/SYS	-O-R-S	-O-R-S	∅ 3	∅ 4	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S
L	1A	2A/S1	-O-R-S	-O-R-S	3A	4A	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S
U	NOT USED	NOT USED	-O-R-S	-O-R-S	NOT USED	∅ 4	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S
L			-O-R-S	-O-R-S		4B	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S
U	-O-R-S	∅6/SYS	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S
L		6A/S2	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S
U	-O-R-S	NOT USED	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S
L			-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S	-O-R-S

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

FS = FLASH SENSE
 ST = STOP TIME

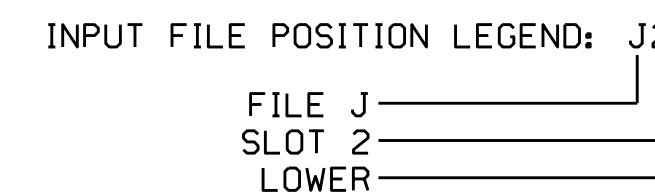
⊗ Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A ¹	TB2-1,2	I1U	56	18	1	1	Y	Y			15
	-	J4U	48	10	26	6	Y	Y			
2A/S1	TB2-5,6	I2U	39	1	2	2/SYS	Y	Y			
3A	TB4-5,6	I5U	58	20	3	Y	Y	Y			
4A	TB4-9,10	I6U	41	3	4	Y	Y	Y			3
4B	TB4-11,12	I6L	45	7	14	Y	Y	Y			15
6A/S2	TB3-5,6	J2U	40	2	6	6/SYS	Y	Y			
PED PUSH BUTTONS											
P41,P42	TB8-5,6	I12L	69	31	PED 4	4 PED					

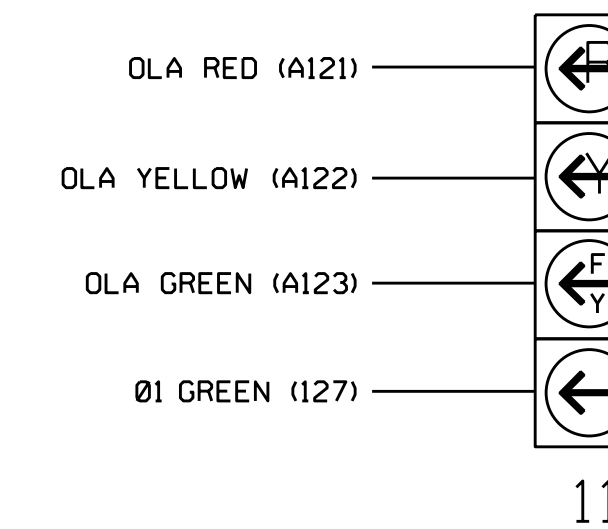
NOTE:
 INSTALL DC ISOLATOR IN INPUT FILE SLOT 11,2.

¹Add jumper from I1-W to J4-W, on rear of input file.



FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



NOTE

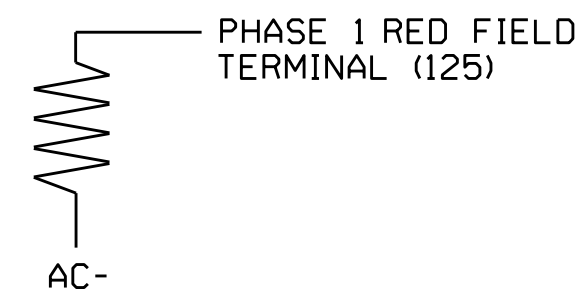
The sequence display for signal head 11 requires special logic programming. See sheet 2 for programming instructions.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0404
 DESIGNED: June 2016
 SEALED: 12/16/2016
 REVISED: N/A

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

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



Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:
 TRANSPORTATION MOBILITY AND SAFETY ADMINISTRATION
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 Signal Management Section
 750 N. Greenfield Pkwy, Garner, NC 27529

Electrical AND PROGRAMMING DETAILS FOR: US 19-23 Bus. (Haywood Road) at SR 3412 (Sand Hill Road) and Vermont Avenue

Division 13 Buncombe County Asheville
 PLAN DATE: December 2016 REVIEWED BY: BAS
 PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS	INIT.	DATE

DocuSigned by:
 Keith M. Mins 12/20/2016
 2F8078EBCD3445 DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 KEITH M. MINS
 SIG. INVENTORY NO. 13-0404

18-DEC-2016 11:16 S:\MTCAS\15\Sig\Work\hgr\cdp\sig\Map\hgr\strong\130404_sm.elec.xxx.dgn sarminstrong