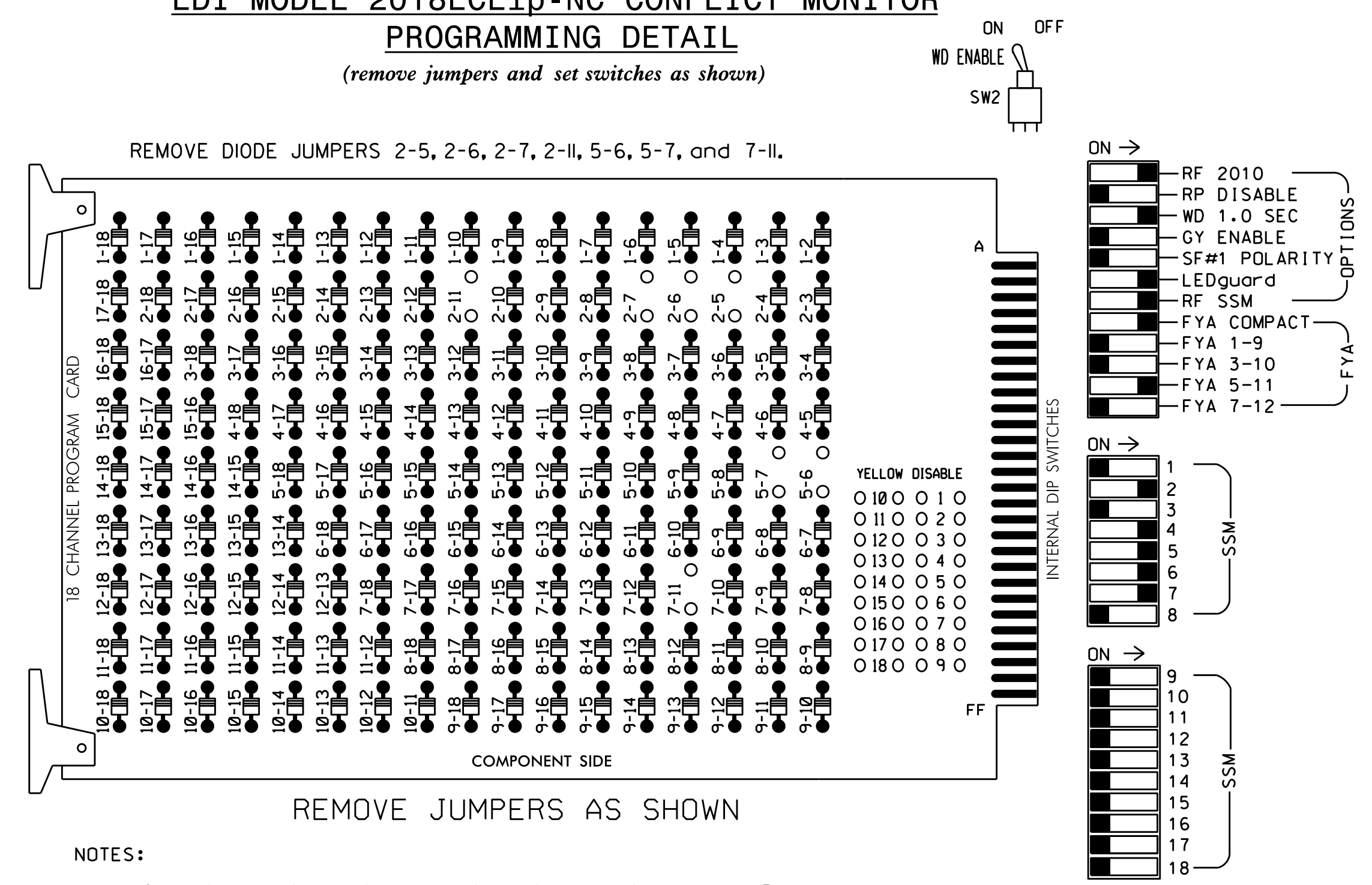


EDI MODEL 2018ECLip-NC CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches 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.
 - Integrate monitor with Ethernet network in cabinet.
 - Special cabinet wiring is required to utilize FYA COMPACT mode. See Ped Yellow Conflict Monitor Wiring Detail on this sheet.

- 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.
 - Enable Simultaneous Gap-Out for all phases.
 - Program phase 2 for Variable Initial and Gap Reduction.
 - Program phases 2 and 6 for Start Up In Green.
 - Program phases 2 and 6 for Yellow Flash.
 - The cabinet and controller are part of the Asheville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....336
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....POLE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S5,S7,S8,S9,S10
 PHASES USED.....2,4,5,6,
 OVERLAP "A".....NOT USED
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 OVERLAP "D".....NOT USED
 OVERLAP "E".....5

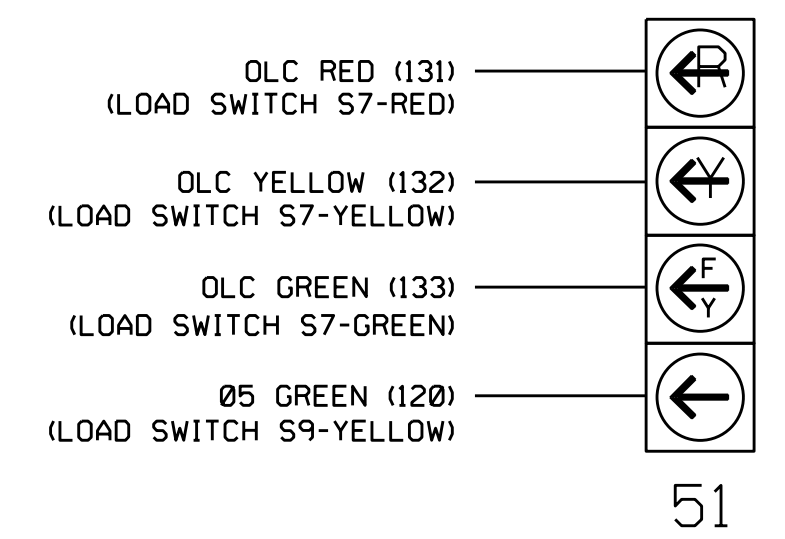
SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	11	15	7	8	16
PHASE	1	2	2 PED	3	4	4 PED	OLC	6	5 GRN	6 PED	OLE	8	8 PED
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	51	61,62 63	51	NU	42	NU	NU
RED		128			101			134			*		
YELLOW		129			102			135					
GREEN		130			103			136					
RED ARROW								131					
YELLOW ARROW								132			123		
FLASHING YELLOW ARROW								133					
GREEN ARROW									120		124		
											*		

* Denotes install load resistor. See load resistor installation detail below.
 ★ See pictorial of head wiring in detail below.
 NOTE: Load Switches S7 and S9 require output remapping. See sheet 3 for details.

FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



NOTE
 The sequence display for signal head 51 requires special logic and output remapping. See sheet 2 for programming instructions.

PED YELLOW CONFLICT MONITOR WIRING DETAIL

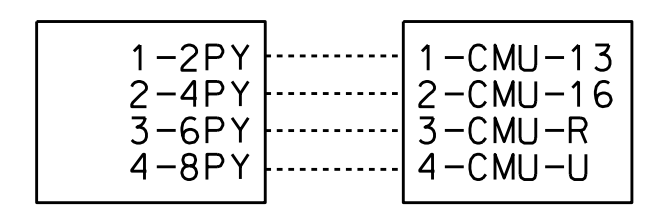
(make cabinet wiring changes as shown below)

In order to use FYA COMPACT mode with the 2018ECL-NC Monitor, the cabinet must be wired such that the (unused) Ped Yellow load switch outputs are wired to the conflict monitor as follows: From 6 PY (field term. 120) to Channel 10 Green (monitor pin R).

- Follow the instructions below to make the appropriate connections:
- STEP 1: Fold down rear panel of output file.
- STEP 2: Find unused wiring harness from conflict monitor card edge connector (which should be tied and bundled together).
- STEP 3: Find the conductors that correspond to the following conflict monitor card edge pins and solder wire to the appropriate terminal on the rear of the output file as shown below:

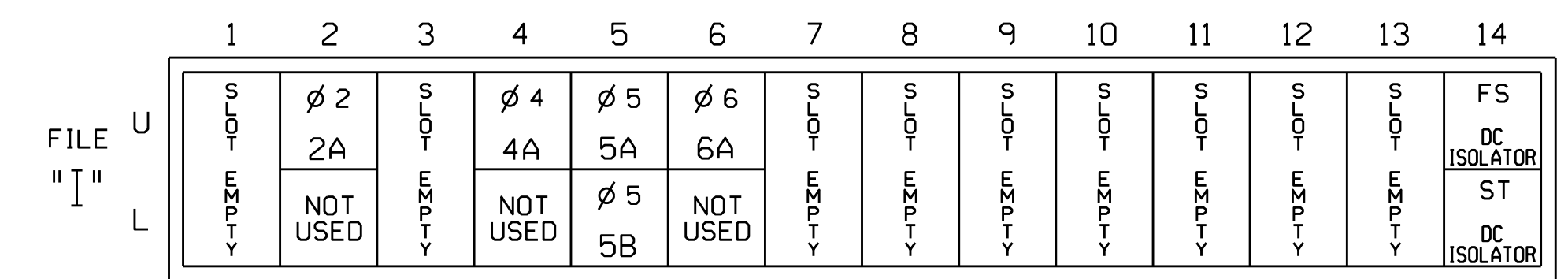
CMU-R _____ 6PY (term. 120)

NOTE: Some cabinet manufacturers use keyed connectors to accomplish this wiring configuration. If connectors are used, fold down the rear panel of the output file and find the set of 3 keyed connectors and connect them as shown below:



INPUT FILE POSITION LAYOUT

(front view)

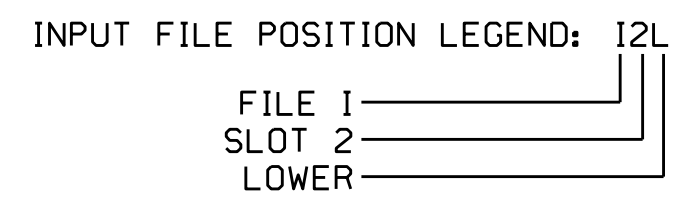


EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

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
2A	TB21-3,4	12U	39	1	2	2	Y	Y			
4A	TB21-7,8	14U	41	3	4	4	Y	Y			3
5A ¹	TB21-9,10	15U	55	17	5	5	Y	Y			15
			63	25	32	2	Y	Y	Y		3
5B	TB23-9,10	15L	48	10	26	5	Y	Y			15
6A	TB21-11,12	16U	40	2	6	6	Y	Y			

¹Add jumper from 15-F to 15-SP, on rear of input file.

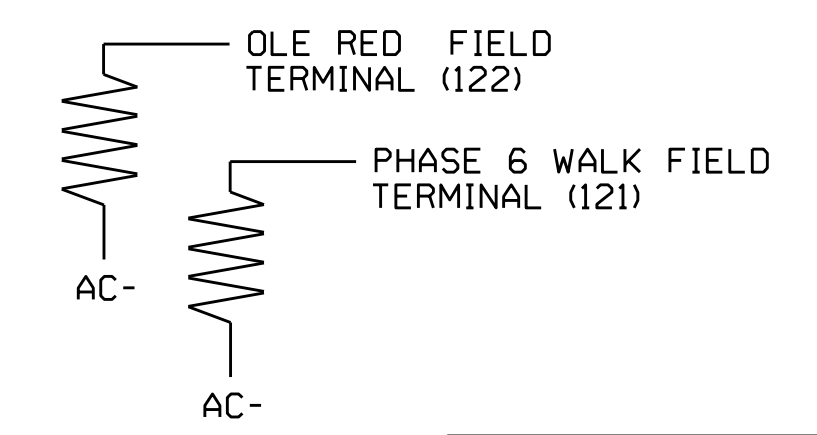


LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

ACCEPTABLE VALUES

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



Electrical Detail - Sheet 1 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical and Programming Details for: SR 3556 (Meadow Rd.)/Lyman St. at SR 3556 (Amboy Rd.)

Prepared in the Offices of: **Transporatio Mobility and Safety Solutions**

Division 13 Buncombe County Asheville

PLAN DATE: October 2016 REVIEWED BY: BAS

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: **Keith M. Mims** 11/1/2016

750 N. Greenfield Pkwy, Garner, NC 27529

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER KEITH M. MIMS 036880

SIG. INVENTORY NO. 13-0396

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0396
 DESIGNED: June 2016
 SEALED: 10/25/2016
 REVISED: N/A

2016-10-20 16:56
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