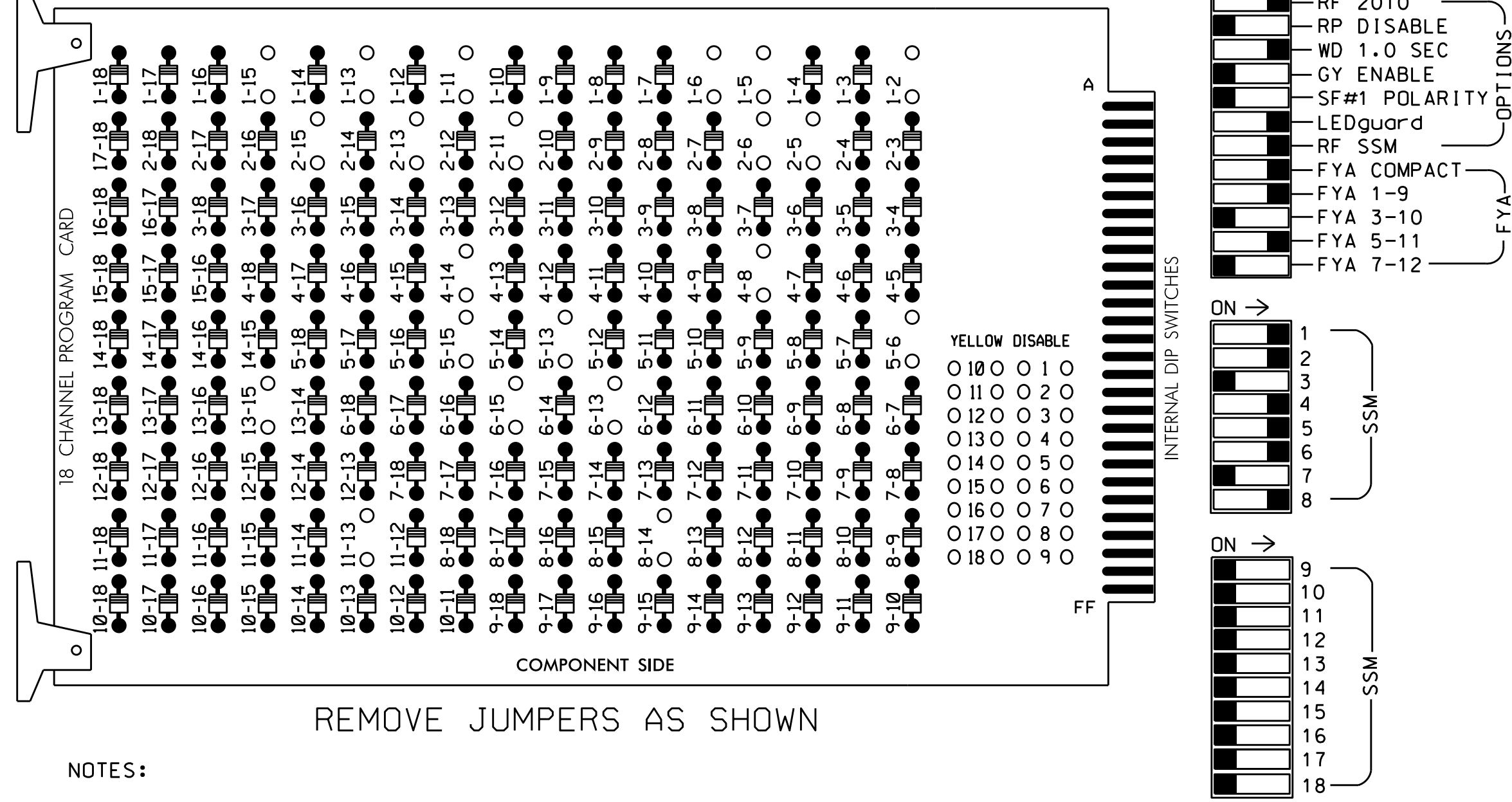


**EDI MODEL 2018EClip-NC CONFLICT MONITOR
PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-2, 1-5, 1-6, 1-11, 1-13, 1-15, 2-5, 2-6, 2-11, 2-13, 2-15, 4-8, 4-14, 5-6, 5-13, 5-15, 6-13, 6-15, 8-14, 11-13 and 13-15.



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.
- 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.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2, 4 and 6 for 'STARTUP PED CALL'.
- Program phases 2 and 6 for Yellow Flash and overlap 1 as Wag Overlaps.
- 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.....S1,S2,S3,S5,S6,S7,S8,S9,S11
 PHASES USED.....2,2 PED,4,4 PED,5,6,6 PED,8
 OVERLAP "A".....2
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 OVERLAP "D".....NOT USED

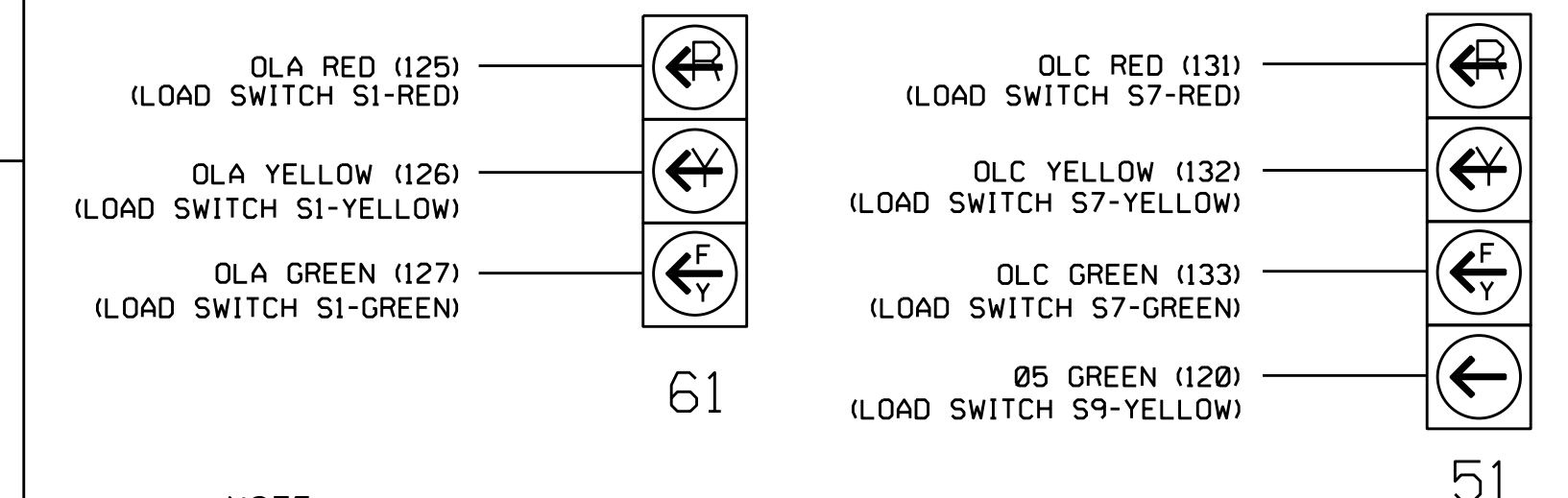
SIGNAL HEAD HOOK-UP CHART

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
PHASE	OLA	2 PED	3	4	4 PED	OLC	6	5 GRN	6 PED	7	8	8 PED
SIGNAL HEAD NO.	61	21,22	P21, P22	NU	41,42	P41, P42	51	62,63	51	P61, P62	NU	81,82
RED		128			101			134				107
YELLOW		129	*		102	*		135				108
GREEN		130			103			136				109
RED ARROW	125							131				
YELLOW ARROW	126							132				
FLASHING YELLOW ARROW	127							133				
GREEN ARROW			113			104			119			
									120			
										121		

* Denotes install load resistor. See load resistor installation detail below.
 ★ See pictorial of head wiring in detail below.
 NOTE: Load Switches S1, S7 and S9 require output remapping. See sheets 3 and 4 of this electrical detail for instructions.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



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

INPUT FILE POSITION LAYOUT

(front view)

FILE	U	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	U	2A/S1	S	4A	5A	6A/S3	S	8A	S	S	S	S	2 PED DC ISOLATOR	6 PED DC ISOLATOR	FS DC ISOLATOR
L	L	2B/S2	NOT USED	NOT USED	6B/S4	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	4 PED DC ISOLATOR	NOT USED	ST DC ISOLATOR

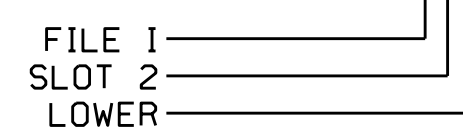
EX.: 1A, 2A, ETC. = LOOP NO.'S FS = FLASH SENSE ST = STOP TIME

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/S1	TB21-3,4	I2U	39	1	2	2/SYS	Y	Y			
2B/S2	TB23-3,4	I2L	43	5	12	2/SYS	Y	Y			
4A	TB21-7,8	I4U	41	3	4	4	Y	Y			5
5A ¹	TB21-9,10	I5U	55	17	5	5	Y	Y			15
			63	25	32	2	Y	Y	Y		3
6A/S3	TB21-11,12	I6U	40	2	6	6/SYS	Y	Y			
6B/S4	TB23-11,12	I6L	44	6	16	6/SYS	Y	Y			
8A	TB22-1,2	I8U	42	4	8	8	Y	Y			5
PED PUSH BUTTONS											
P21,P22	TB22-9,10	I12U	67	29	PED 2	2 PED					
P41,P42	TB24-9,10	I12L	69	31	PED 4	4 PED					
P61,P62	TB22-11,12	I13U	68	30	PED 6	6 PED					

¹Add jumper from I5-F to I5-SP, on rear of input file.

INPUT FILE POSITION LEGEND: I2L



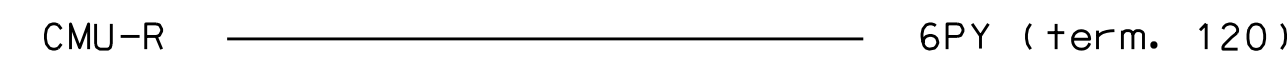
NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

PED YELLOW CONFLICT MONITOR WIRING DETAIL

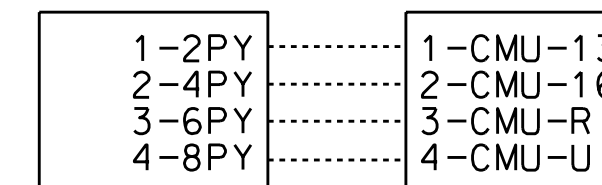
(make cabinet wiring changes as shown below)

In order to use FYA COMPACT mode on the 2018EClip-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:



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:

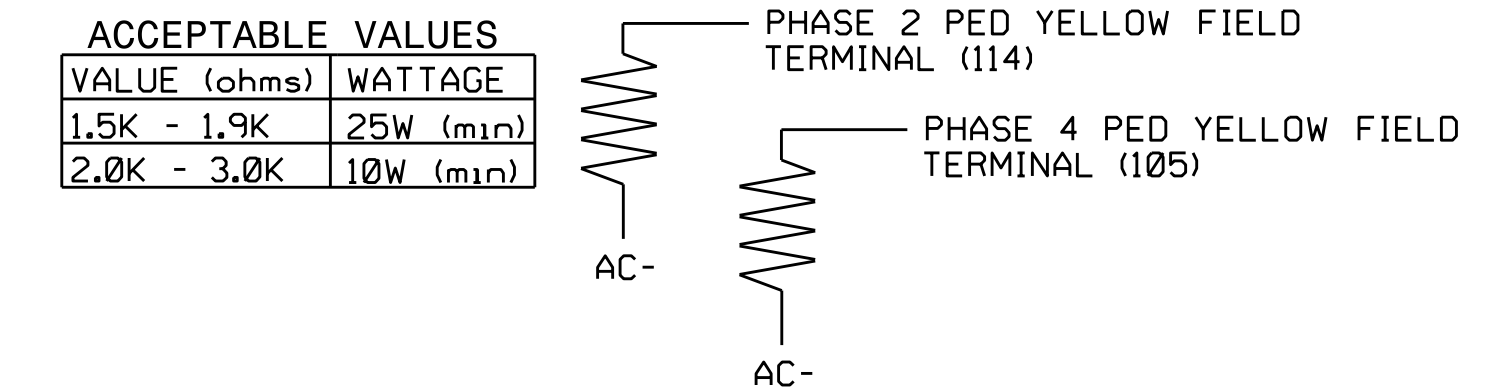


COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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.

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0529
 DESIGNED: July 2016
 SEALED: 9/26/2016
 REVISED:

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

US 25 (Hendersonville Road) at SR 1506 (Springside Road)/ Herman Avenue

Division 13 Buncombe County Asheville
 PLAN DATE: September 2016 REVIEWED BY: T. Joyce
 PREPARED BY: C. Strickland REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: Cary M. Little 9/28/2016
 0021EFD04F534F DATE

SIG. INVENTORY NO. 13-0529

28-SEP-2016 09:10
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