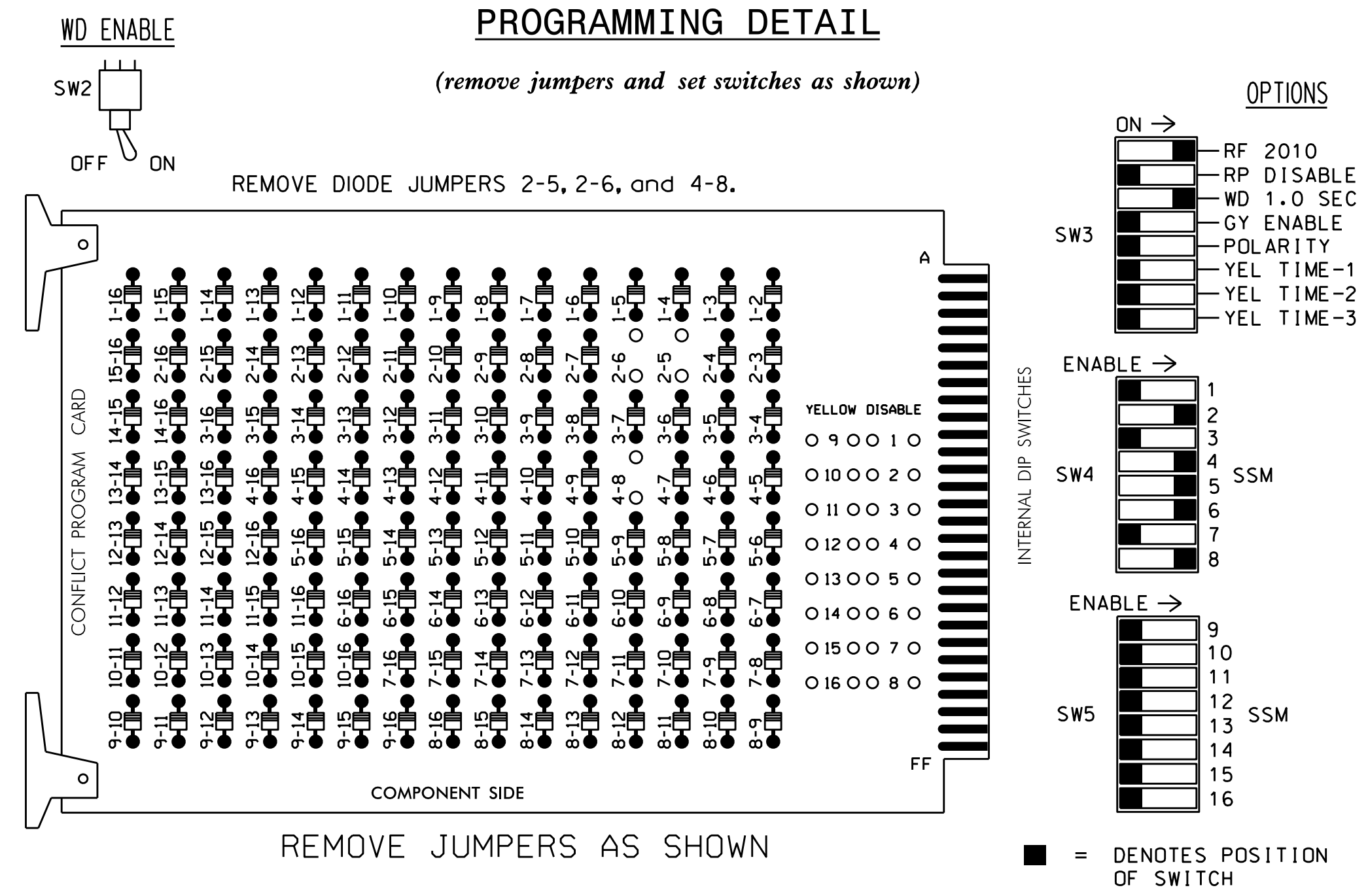


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL



- NOTES:
- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
 - Make sure jumpers SEL2-SEL5 are present on the monitor board.

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.
- Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 1,3, 7,9,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2 and 6 for Yellow Flash.

EQUIPMENT INFORMATION

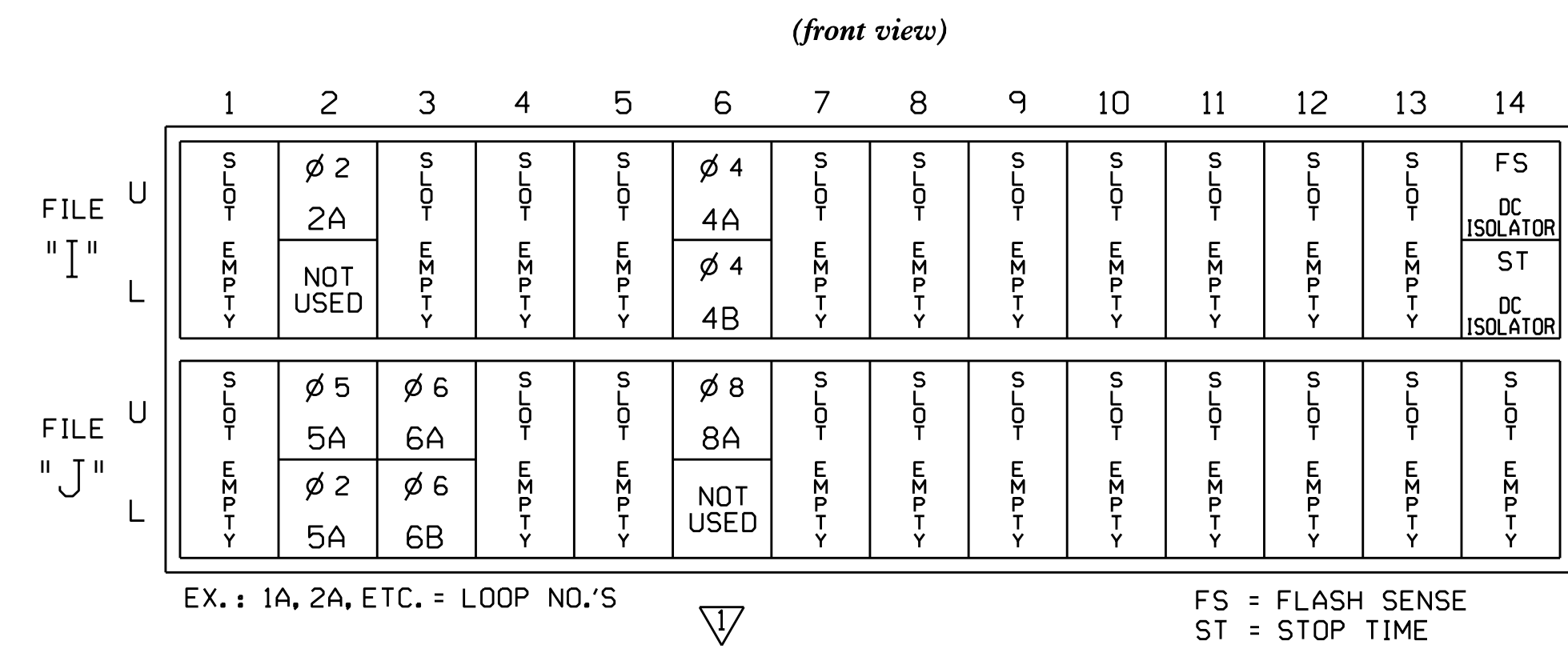
CONTROLLER.....2070
 CABINET.....McCain/CONTROL TECHNOLOGIES (DWG.NO.9500-332-NCDOT)
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S4,S5,S6,S8
 PHASES USED.....2,4,5,6,8
 OVERLAPS.....NONE

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	NU	21	61,62	NU	NU	81,82	NU
RED		128			101		*	134			107	
YELLOW		129			102			135			108	
GREEN		130			103			136			109	
RED ARROW												
YELLOW ARROW							132					
GREEN ARROW							133					

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

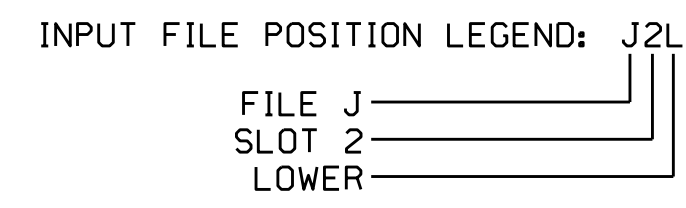
INPUT FILE POSITION LAYOUT



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	TB2-5,6	I2U	39	1	2	2	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			3
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			10
5A'	TB3-5,6	J2U	40	2	6	5	Y	Y			15
	TB3-7,8	J2L	44	6	16	2	Y	Y			
6A	TB3-9,10	J3U	64	26	36	6	Y	Y			
6B	TB3-11,12	J3L	77	39	46	6	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			

1 Add jumpers from TB3-5 to TB3-7, and from TB3-6 to TB3-8.

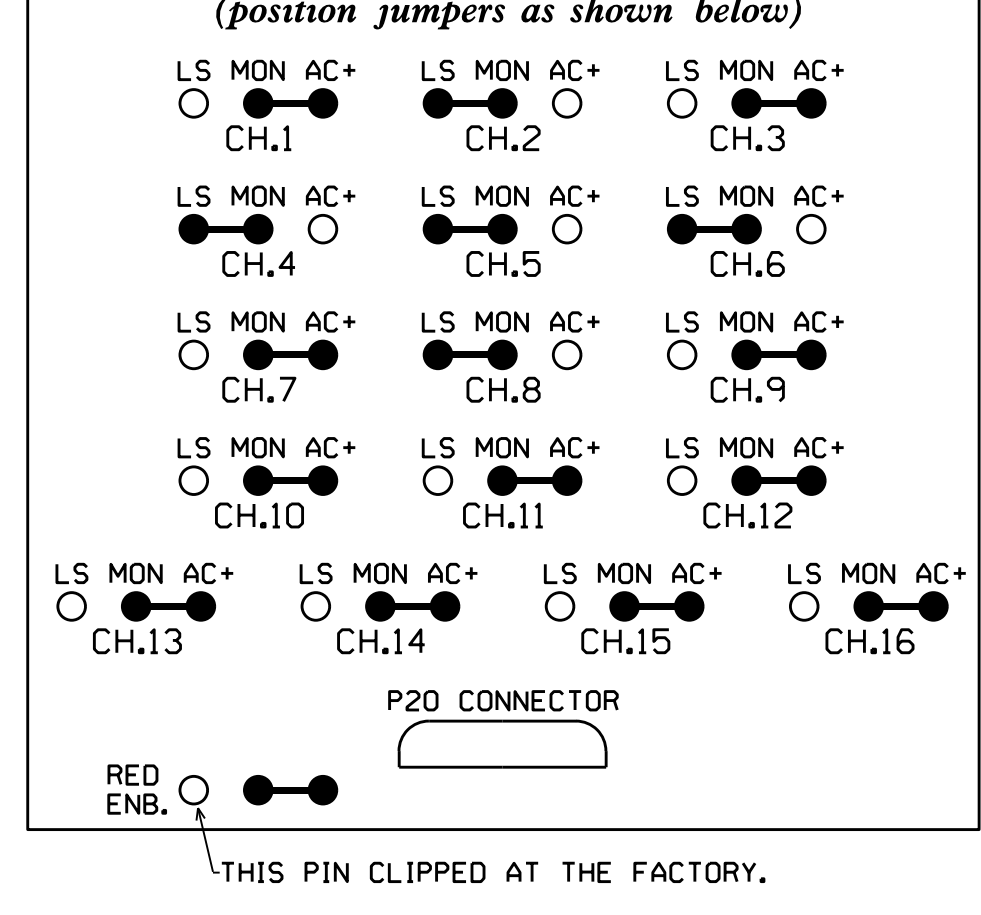


BACKUP PROTECTION NOTE

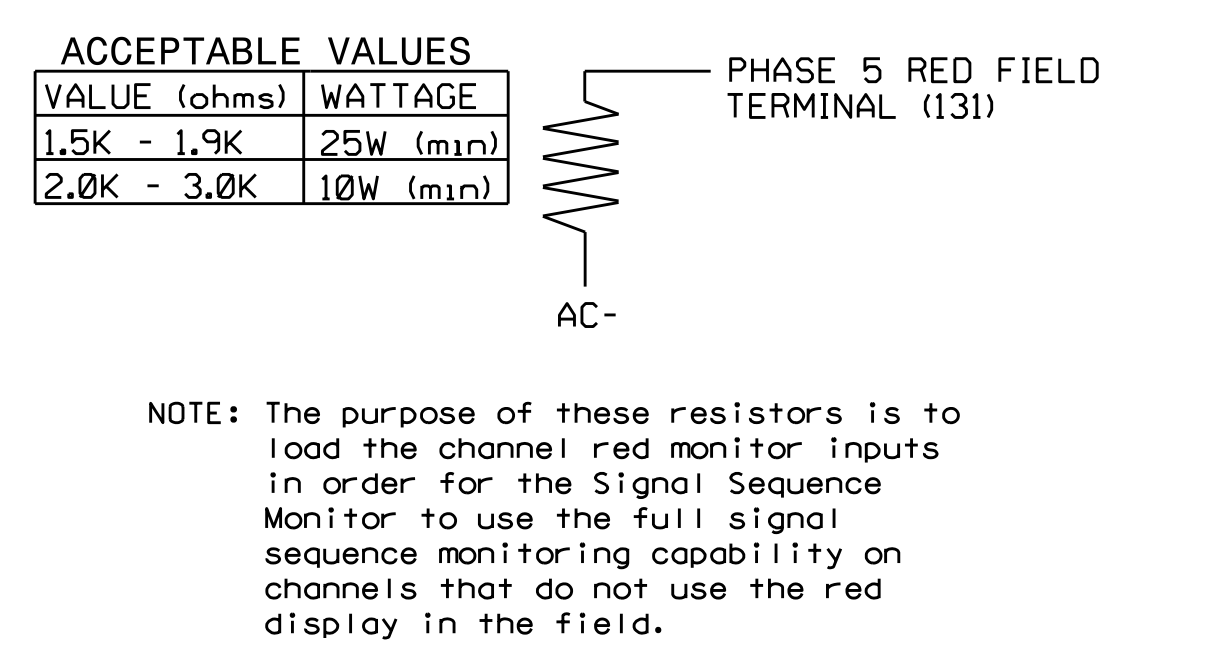
(program controller as shown below)
 From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phase 2 for 'Backup Protect'. Make sure the Red Revert times shown on the Signal Design Plans are programmed in the 'Phase Timing' menu.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0678
 DESIGNED: February 2016
 SEALED: 3/14/2016
 REVISED: N/A

RED MONITOR BOARD PROGRAMMING



LOAD RESISTOR INSTALLATION DETAIL



Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISION SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 KEITH M. MIMS
 3/15/2016

Prepared in the Offices of:
 TRANSPORTATION MOBILITY AND SAFETY CONSULTANTS
 750 N. Greenfield Pkwy, Garner, NC 27529

NC 179 (Beach Drive) at SR 1168 (Country Club Road) / Marsh Harbor Road
 Division 3 Brunswick County Calabash
 PLAN DATE: January 2007 REVIEWED BY: JTP
 PREPARED BY: C. Strickland REVIEWED BY:
 3/15/2016
 KMM
 This document is only certified as to the revisions.
 SIG. INVENTORY NO. 03-0678

15-MAR-2016 09:34 S:\MITSAS\15-Signal\work\hgr\oups\51g_MonMtrmsfrong\030678_sm.ele.xxx.dgn somstrfong