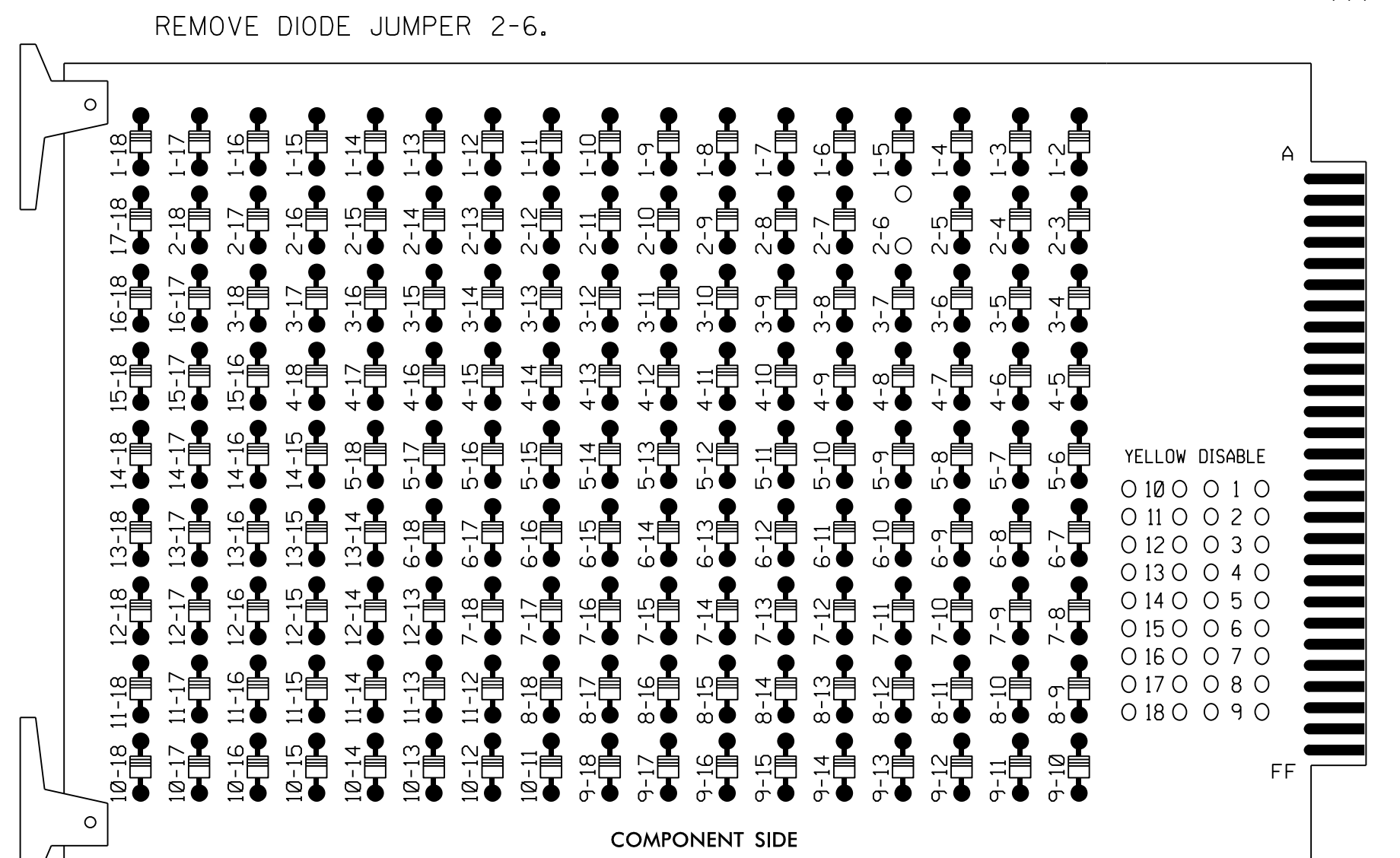


### EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

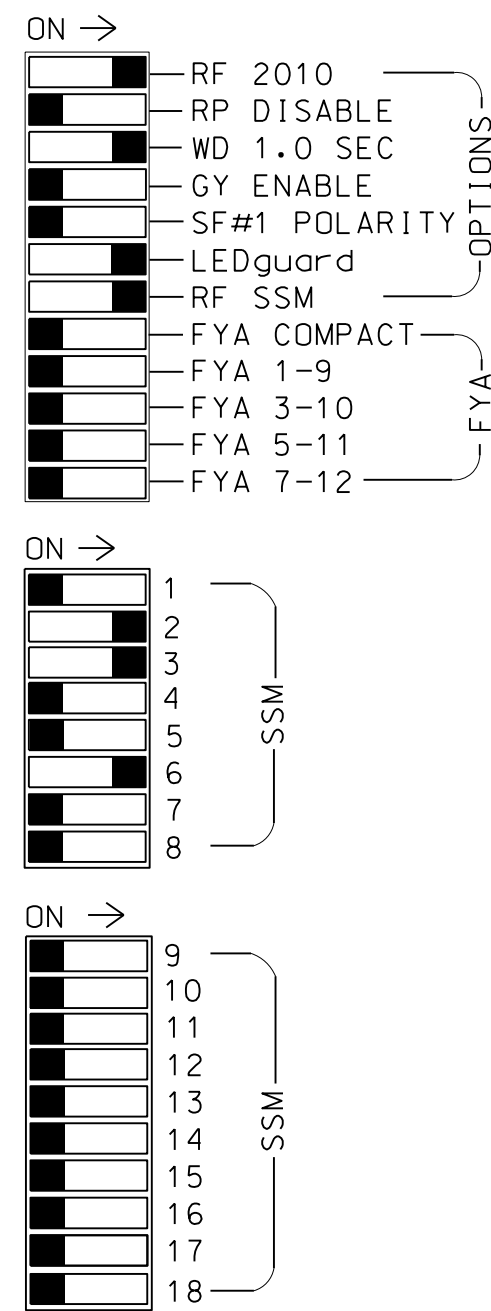
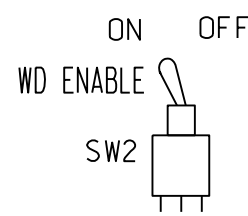
(remove jumpers and set switches as shown)



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.



■ = 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.
- 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 1,5,7, 8,9,10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Enable Simultaneous Gap-Out for all Phases.
- Program phases 2 and 6 for Startup In Green.

### EQUIPMENT INFORMATION

CONTROLLER.....2070  
 CABINET .....332  
 SOFTWARE .....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS..12  
 LOAD SWITCHES USED.....S2,\*S3,S4,S5,S8,S11  
 PHASES USED.....2,\*\*3,6  
 OVERLAPS.....NONE

\* S3 USED FOR FIREHOUSE PILOT LIGHT CONTROL  
 \*\* USED DURING PREEMPT ONLY

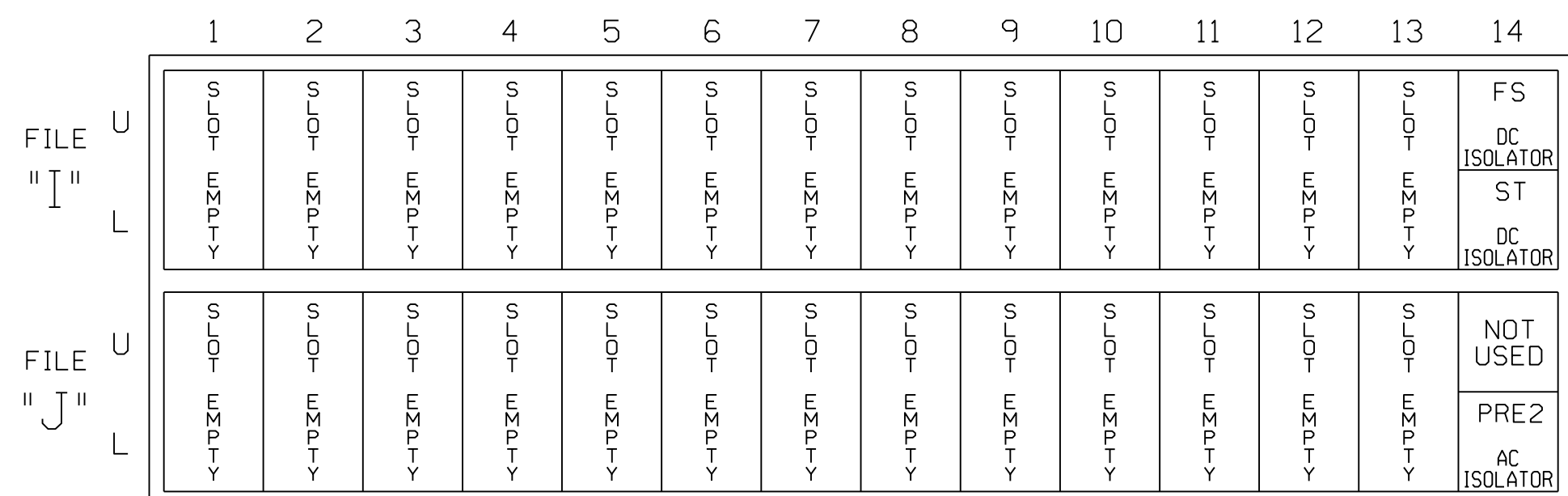
### SIGNAL HEAD HOOK-UP CHART

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	15	7	8	16
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	NU	21,22	FIRE PILOT LAMP	31	32	41,42	NU	NU	61,62	NU	NU	NU
RED		128		** 116	** 116	** 101			134			
YELLOW		129		117	117	*			135			
GREEN				118	118	*						
RED ARROW												
YELLOW ARROW												
GREEN ARROW				118								
8' FLASHING YELLOW		130							136			
PED YELLOW				*	114							
				*								

NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 \*\* Denotes that phases 3 and 4 red are driven by OLA and OLB, respectively. Phase 4 is not enabled in controller sequence. This is done to provide in-cycle flashing/steady operations of signals during preemption. See Sheet 2 of this electrical detail for Logic Programming and Sheet 3 for Output Programming.

### INPUT FILE POSITION LAYOUT

(front view)

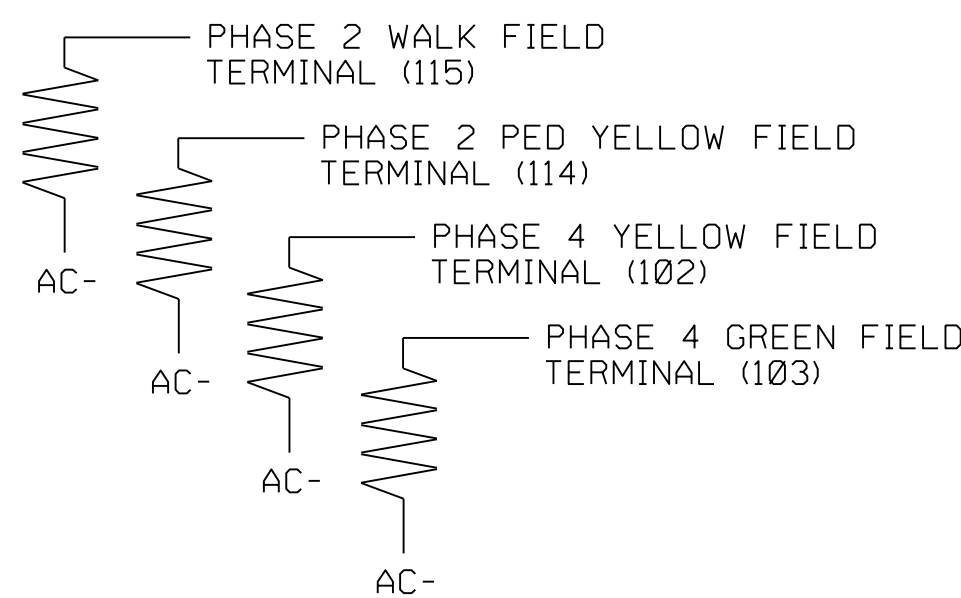


EX. : 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
 ST = STOP TIME  
 PRE = PREEMPT

### LOAD RESISTOR INSTALLATION DETAIL

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



### PREEMPT ONLY PHASE OMIT NOTE

(program controller as shown below)

From Main Menu press '2' (Phase Control). Then '1' (Phase Control Functions). Program Phase 3 for 'Omit Phase' and Phases 2 and 6 for 'Startup Calls'. This is to prevent Phase 3 from being served when not in Preempt.

### GREEN INTERVAL FLASH PROGRAMMING DETAIL TO PROVIDE IN CYCLE FLASHING FOR HEADS 21,22,61 & 62

(program controller as shown below)

From Main Menu press '2' (Phase Control). Then '1' (Phase Control Functions). Program Phases 2 and 6 for 'Green Interval Flash'.

Electrical Detail - Sheet 1 of 3 - Signal Modification

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

<p><b>Michael Baker INTERNATIONAL</b>                  8000 Regency Parkway, Suite 600                  Cary, North Carolina 27518                  Phone: 919-463-5488                  NC License No. : F-1084                  MBAKERINTL.COM</p>	<p>Prepared in the Offices of:  </p>	<p>US 301 (Ward Boulevard) at New Bern Street</p>		<p>SEAL  </p>
		<p>Division 4      Wilson County      Wilson</p>	<p>PLAN DATE: June 2017      REVIEWED BY: W M Ruhssam</p>	
<p>PREPARED BY: K M Cory      REVIEWED BY:</p>		<p>REVISIONS</p>	<p>INIT.      DATE</p>	<p>DocuSigned by:                  Kelly M Cory      8/4/2017</p>
<p>750 N.Greenfield Pkwy, Garner, NC 27529</p>		<p>SIGNATURE      DATE</p>		<p>SIG. INVENTORY NO. 04-0282</p>

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-0282  
 DESIGNED: June 2017  
 SEALED: 08/04/2017  
 REVISED: N/A