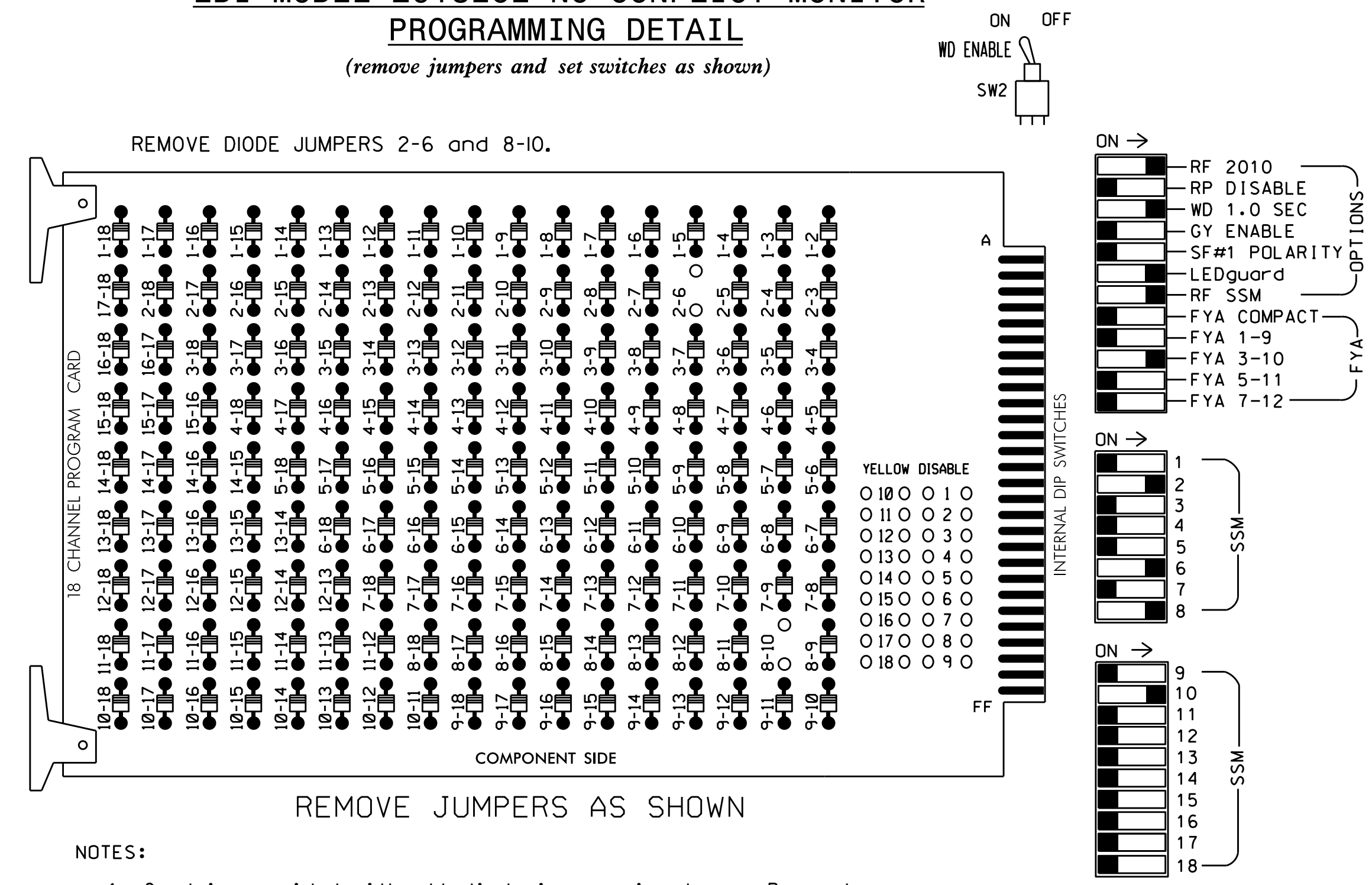


**EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL**  
(remove jumpers and set switches as shown)



- 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. Ensure conflict monitor communicates with 2070.

**NOTES**

1. To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. Verify that signal heads flash in accordance with the signal plans.
2. Program controller to Start Up in phases 2 and 6 green.
3. Set power-up flash time to 0 seconds within the controller programming. The conflict monitor will govern startup flash. Ensure STARTUP "RED START" is set to 0 seconds.
4. Enable Simultaneous Gap-Out feature for all phases.
5. Program all timing information into phase banks 1, 2, and 3 unless otherwise noted.
6. Set phase bank 3 maximum limit to 250 seconds for phases used.
7. Ensure start up flash phases are coordinated with flash program block assignments.
8. Set the Red Revert interval on the controller to 1 second.
9. This cabinet and controller are part of the Durham Signal System.

**EQUIPMENT INFORMATION**

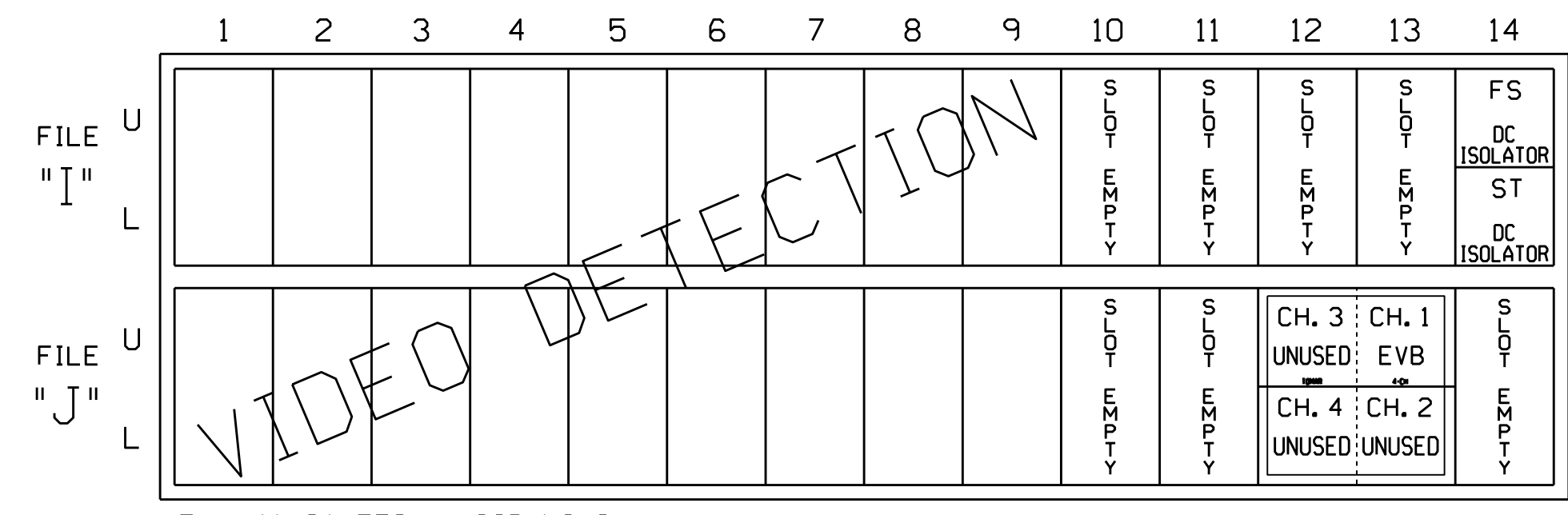
CONTROLLER.....2070E  
 CABINET.....332 W/ AUX  
 SOFTWARE.....McCAIN 2033  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX FILE  
 LOAD SWITCHES USED.....S2,S8,S11,AUX S2  
 PHASES USED.....2,6,8  
 OVERLAP 1.....NOT USED  
 OVERLAP 2.....8  
 OVERLAP 3.....NOT USED  
 OVERLAP 4.....NOT 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	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21,22	NU	NU	NU	NU	NU	61,62	NU	NU	82,83	NU	NU	81	NU	NU	NU	NU
RED		128						134			107							
YELLOW		129						135			108							
GREEN		130						136			109							
RED ARROW														A124				
YELLOW ARROW														A125				
FLASHING YELLOW ARROW														A126				
GREEN ARROW																		

NU = Not Used  
 \* See pictorial of head wiring in detail below.

**INPUT FILE POSITION LAYOUT**  
(front view)



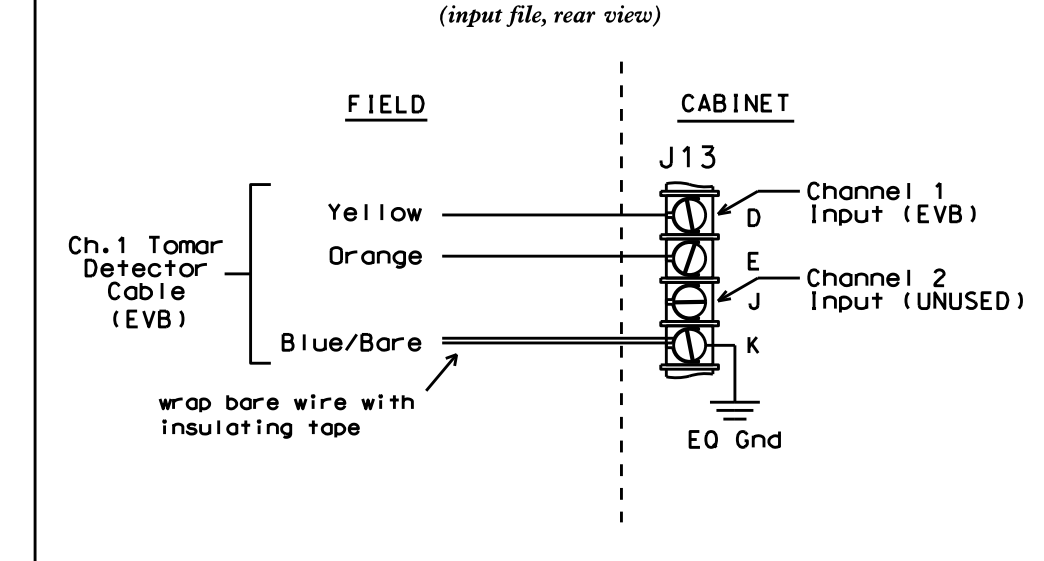
**SPECIAL DETECTOR NOTE**

Install a video detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

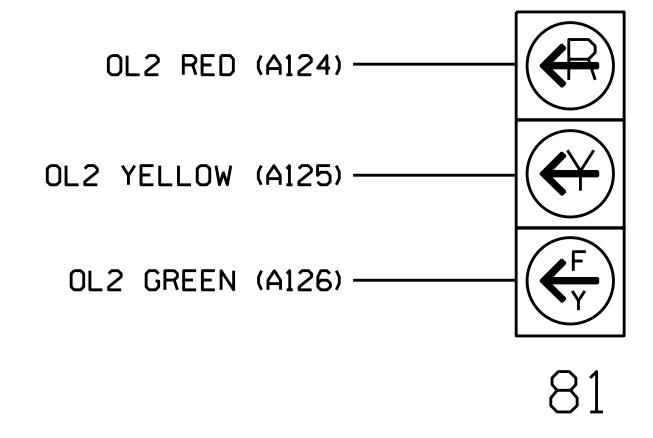
FS = FLASH SENSE  
 ST = STOP TIME  
 EVB = EMERGENCY VEHICLE PREEMPT

4 CHANNEL TOMAR OSP CARD  
 INSERT CARD INTO SLOT J13

**TYPICAL TOMAR FIELD WIRE DETAIL**  
(input file, rear view)



**FYA SIGNAL WIRING DETAIL**



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-0284T2  
 DESIGNED: September 2014  
 SEALED: 4/2/15  
 REVISED: N/A

Electrical and Programming Details for: **NC 55 (South Alston Avenue) at NC 147 NB Ramp / Gann Street**

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

Division 5 Durham County

PLAN DATE: November 2014 REVIEWED BY: *[Signature]*  
 PREPARED BY: S. Armstrong REVIEWED BY: *[Signature]*

750 N. Greenfield Pkwy, Garner, NC 27529

SEAL: JOHN T. ROWE, JR., ENGINEER, SEAL 008453

DocuSigned by: **John T. Rowe, Jr.** 4/2/2015

SIG. INVENTORY NO. 05-0284T2

27-MAR-2015 09:16 S:\MIS\SIG\15\Sig\01\work\hgr\oups\g\Map\Arms\strong\050284\_sml.e xxx.dgn somstrong