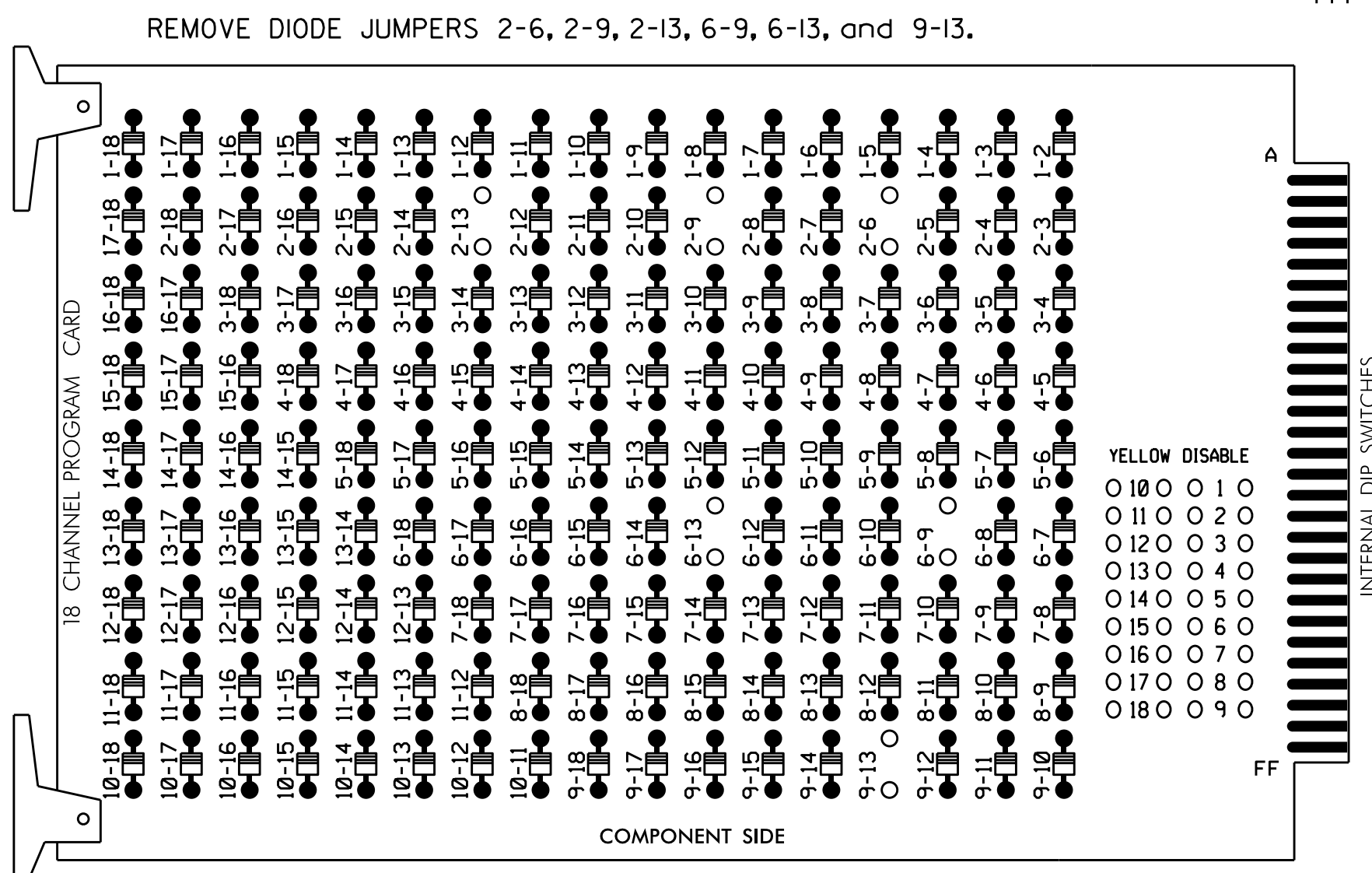


**EDI MODEL 2018ECL-NC CONFLICT MONITOR**

**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.

■ = DENOTES POSITION OF SWITCH

**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. Program Startup Ped Call for phase 2.
9. Set the Red Revert interval on the controller to 1 second.
10. This cabinet and controller are part of the Durham Signal System.

**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	22,23	P21, P22	NU	NU	NU	NU	62,63	NU	NU	81,82	NU	61	NU	NU	NU	NU	NU
RED		128						134			107							
YELLOW		129						135			108							
GREEN		130						136			109							
RED ARROW														A121				
YELLOW ARROW														A122				
FLASHING YELLOW ARROW														A123				
GREEN ARROW																		
Hand icon			113															
Walking person icon			115															

NU = Not Used

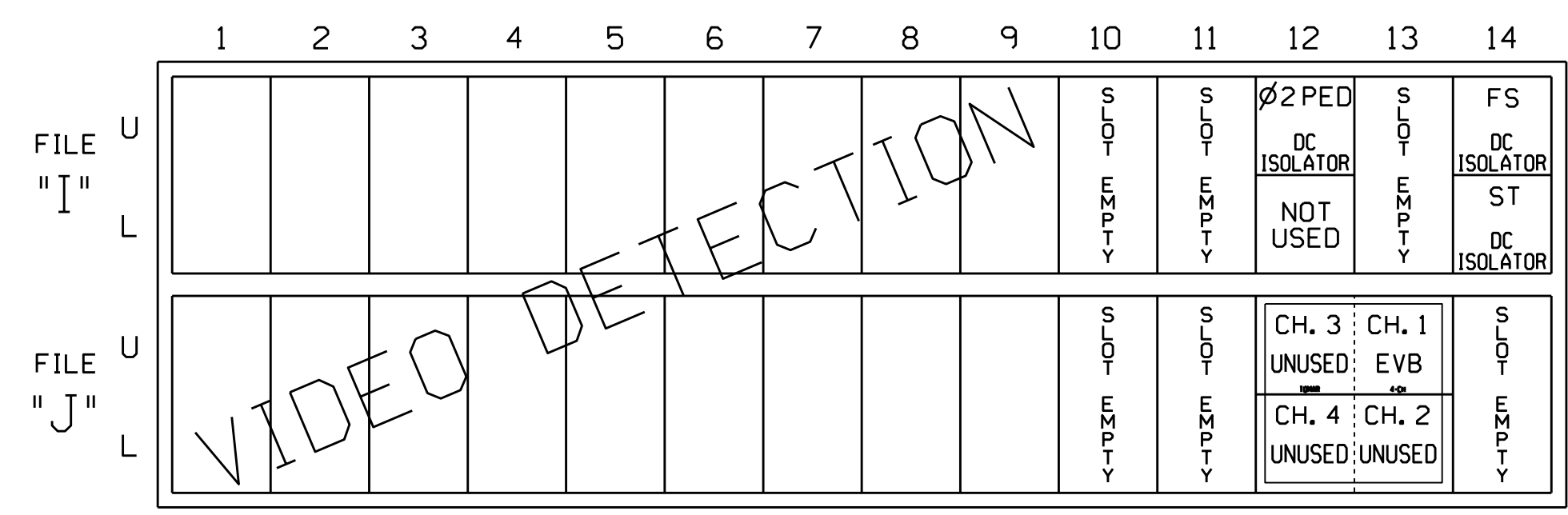
★ See pictorial of head wiring in detail below.

**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,S3,S8,S11,AUX S1  
 PHASES USED.....2,2 PED,6,8  
 OVERLAP 1.....2+6  
 OVERLAP 2.....NOT USED  
 OVERLAP 3.....NOT USED  
 OVERLAP 4.....NOT USED

**INPUT FILE POSITION LAYOUT**

(front view)



**INPUT FILE CONNECTION & PROGRAMMING CHART**

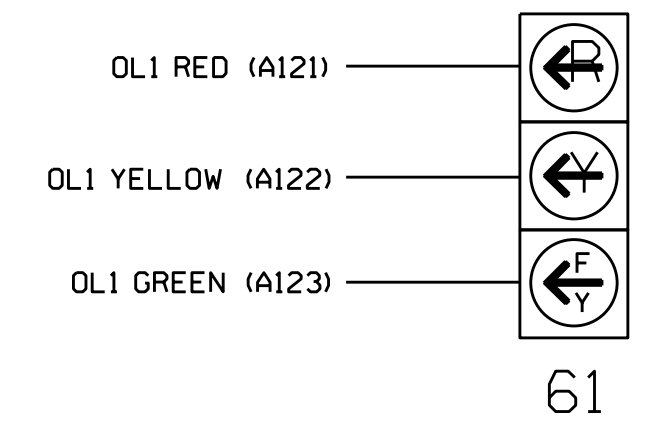
PED BUTTONS	LOOP TERMINAL	INPUT FILE POS.	DETECTOR NO.	PIN NO.	ATTRIBUTES	NEMA PHASE
P21,P22	TB8-4,6	I12U	25	67	2	2 PED

NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT 112

- DETECTOR ATTRIBUTES LEGEND: INPUT FILE POSITION LEGEND: J2L
- 1-FULL TIME DELAY
  - 2-PED CALL
  - 3-RESERVED
  - 4-COUNTING
  - 5-EXTENSION
  - 6-TYPE 3
  - 7-CALLING
  - 8-ALTERNATE
- FILE J  
 SLOT 2  
 LOWER

**FYA SIGNAL WIRING DETAIL**

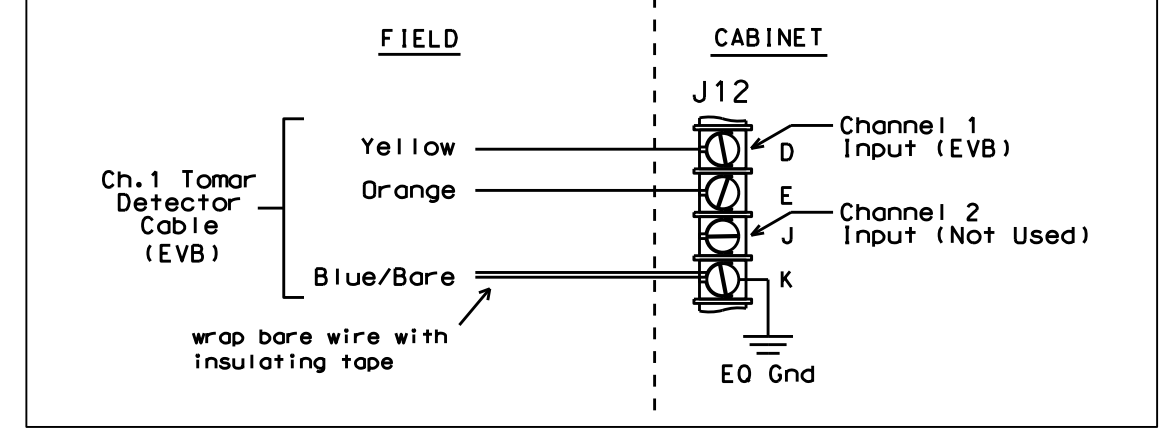
(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1029T7  
 DESIGNED: September 2014  
 SEALED: 4/2/15  
 REVISED: N/A

**TYPICAL TOMAR FIELD WIRE DETAIL**

(input file, rear view)



Electrical Detail - Sheet 1 of 2 (Temporary Design 7)

Electrical and Programming Details for: NC 55 (North Alston Avenue) at Liberty St

Prepared in the Offices of: **TRANSPO-MOBILITY and SAFETY SOLUTIONS**

Division 5 Durham County Durham

PLAN DATE: November 2014 REVIEWED BY: T. Joyce

PREPARED BY: B. SIMMONS REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: **George C. Brown** 4/7/2015

750 N. Greenfield Pkwy, Garner, NC 27529

SEAL

PROFESSIONAL ENGINEER

SEAL 022013

ENGINEER

GEORGE C. BROWN

SIG. INVENTORY NO. 05-1029T7

07-10-2014 10:45  
 S:\MITSUBISHI\SIGNAL\working\05-1029T7\05-1029T7\_sml.ele\_xxxx.dgn  
 M:\work\working\05-1029T7\05-1029T7\_sml.ele\_xxxx.dgn  
 bis/simmons