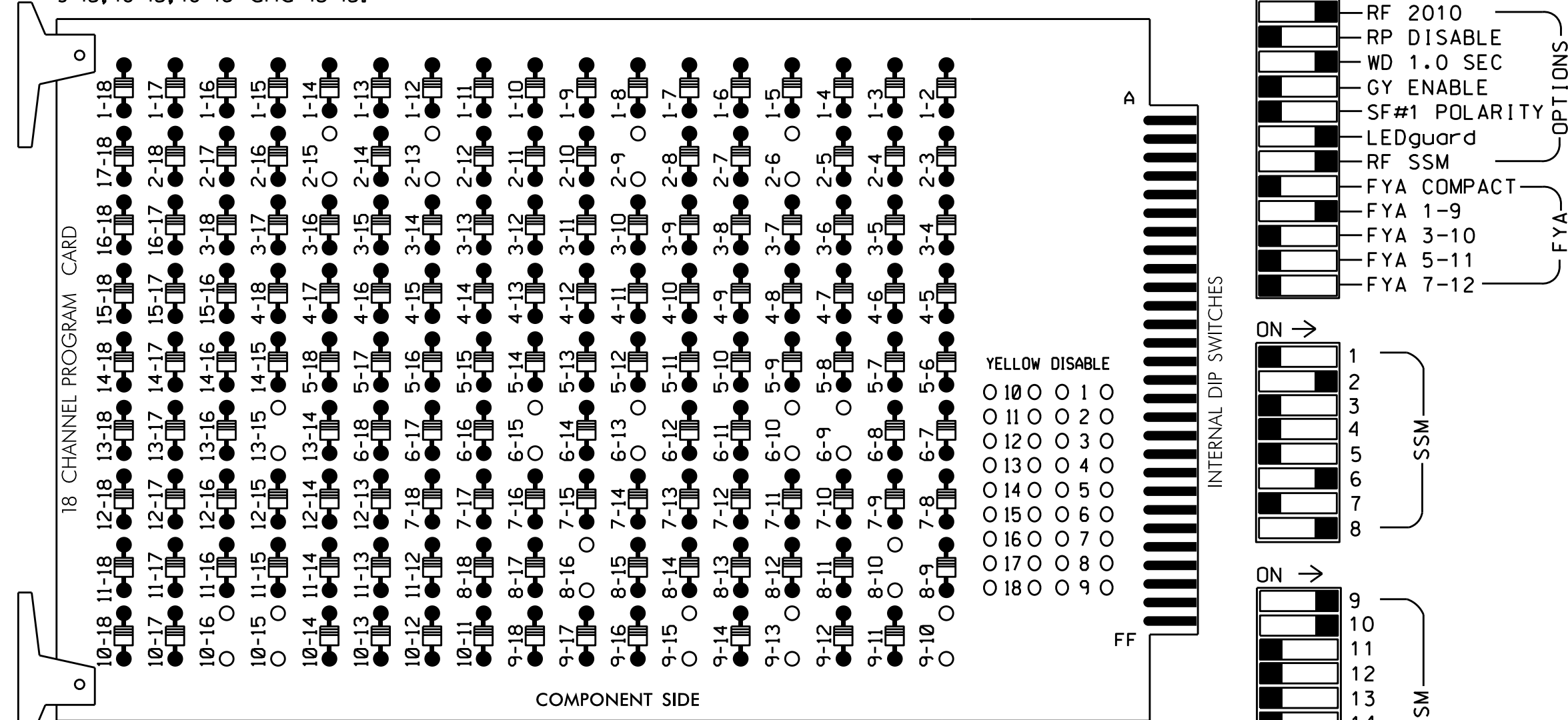


**EDI MODEL 2018EClip-NC CONFLICT MONITOR**

**PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-6, 2-9, 2-13, 2-15, 6-9, 6-10, 6-13, 6-15, 8-10, 8-16, 9-10, 9-13, 9-15, 10-15, 10-16 and 13-15.



REMOVE JUMPERS 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 Ethernet port is connected to a Switch port located within the cabinet.

■ = 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. The installer shall verify that signal heads flash in accordance with the Signal Plans.
2. Initialize database in Naztec 2070 local software (Apogee) as FULL-CALTRANS. This initialization should be done prior to programming controller.
3. Initialize I/O "C1-C11-ABC 10 Mode" to USER (MM 1-8-6). Then set "Init 2A" to MODE 5 (MM 1-8-9-3).
4. Program phases 2 and 6 for Start Up In Walk.
5. Program "Start Up Flash" for 0 sec. The conflict monitor will govern start-up flash time.
6. Ensure "Local Flash Start" feature is set to "DRK".
7. Program controller to provide a 1 second delay on the Flash Sense/Local Flash input. Use the following logic statement to provide this functionality:  

```
FROM MAIN MENU->1->8->7 (I/O LOGIC) Result Src.Fcn TimeOp Time
1208 = 01208 DLY 1
```
8. The cabinet and controller are part of the City of Greensboro Signal System.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070  
 CABINET.....332 W/ AUX  
 SOFTWARE.....NAZTEC APOGEE  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 (12-STD, 6-AUX)  
 LOAD SWITCHES USED.....S2,S3,S8,S9,S11,S12,  
 AUX S1,AUX S2  
 PHASES USED.....\*\*1,2,6,8  
 OVERLAP A.....\*  
 OVERLAP B.....1+8  
 OVERLAP C.....NOT USED  
 OVERLAP D.....NOT USED  
 \* See Overlap Programming Detail Sheet 2.  
 \*\* Phase used for timing purposes only.

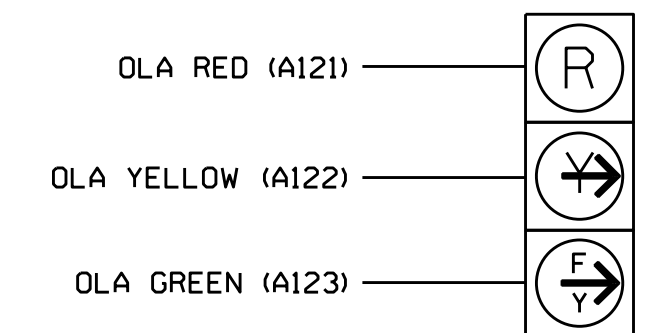
**SIGNAL HEAD HOOK-UP CHART**

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	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NC	21,22	P21,P22, P23,P24	NU	NU	NU	NU	61,62	P61, P62	NU	81,82	P81, P82	63	11, 12,13	22	NU	NU	NU
RED		128											A121	A124				
YELLOW		129																
GREEN		130																
RED ARROW														107				
YELLOW ARROW														108		A122	A125	A125
FLASHING YELLOW ARROW																A123		
GREEN ARROW														109		A126	A126	
Hand			113							119			110					
Walker			115							121			112					

NU = Not Used  
 NC = No Connection  
 ★ See pictorial of head wiring in detail below.

**FYA SIGNAL WIRING DETAIL**

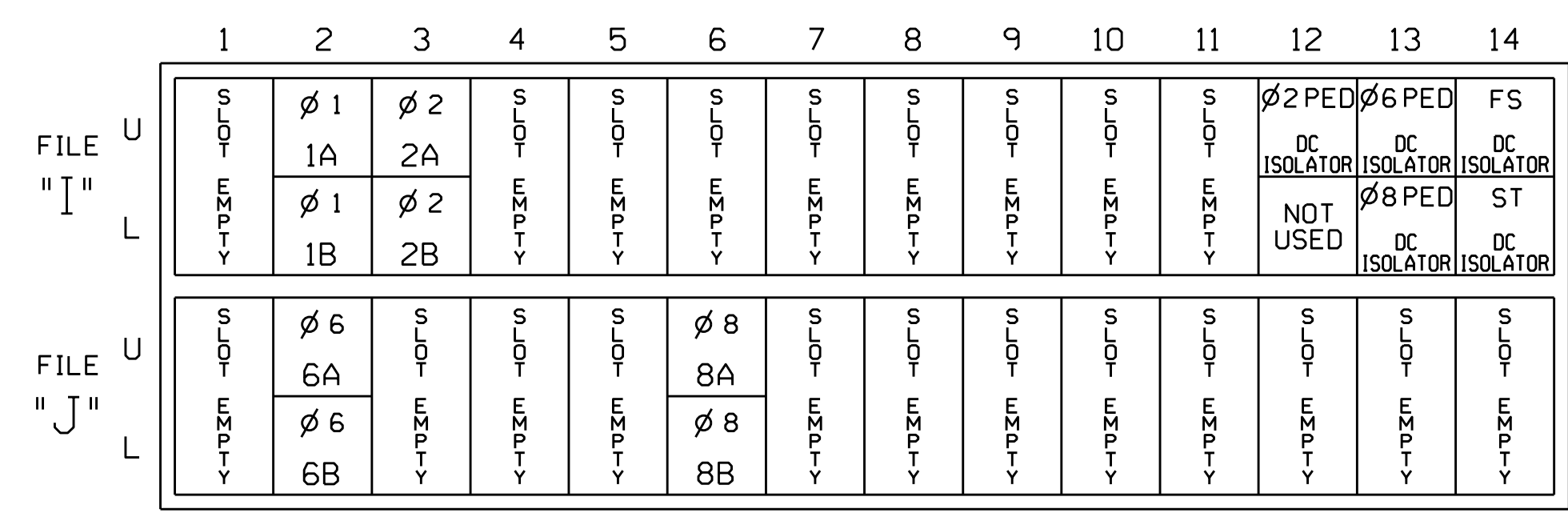
(wire signal head as shown)



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**INPUT FILE POSITION LAYOUT**

(front view)



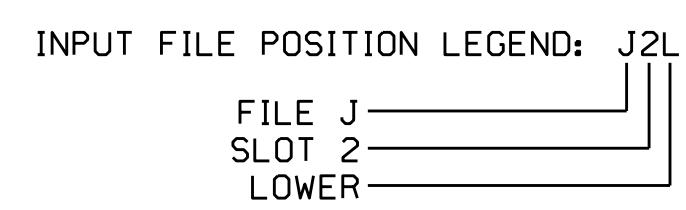
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
 ST = STOP TIME

**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	CALL PHASE	SWITCH	DELAY TIME	EXTEND TIME	CALL	EXTEND	ADDED INIT.
1A	TB2-5,6	I2U	39	2	1		15		X	X	
1B	TB2-7,8	I2L	43	3	1		15		X	X	
2A	TB2-9,10	I3U	63	4	2				X	X	X
2B	TB2-11,12	I3L	76	5	2				X	X	X
6A	TB3-5,6	J2U	40	16	6				X	X	X
6B	TB3-7,8	J2L	44	17	6				X	X	X
8A	TB5-9,10	J6U	42	22	8				X	X	
8B	TB5-11,12	J6L	46	23	8				X	X	

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



**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.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1722  
 DESIGNED: September 2017  
 SEALED: 10/24/2017  
 REVISED:

Electrical Detail - Sheet 1 of 2

Electrical AND PROGRAMMING DETAILS FOR: N. Elm Street at I-840 WB Ramps

Prepared In the Offices of: G.L. Transportation, Mobility and Safety Division, City of Greensboro, NC

Division 7 Guilford County Greensboro

PLAN DATE: October 2017 REVIEWED BY: T. Joyce

PREPARED BY: C. Strickland REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: D. Todd Joyce 10/30/2017

750 N. Greenfield Pkwy, Garner, NC 27529

SEAL AND PTH CAROLINA PROFESSIONAL ENGINEER SEAL 031001

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 07-1722

27-007-2017-09-17  
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 C:\IT\AS\115\Sig\01\work\hous\51g\_Maps\11-17-17\1122-sm.ele.xxx.dgn