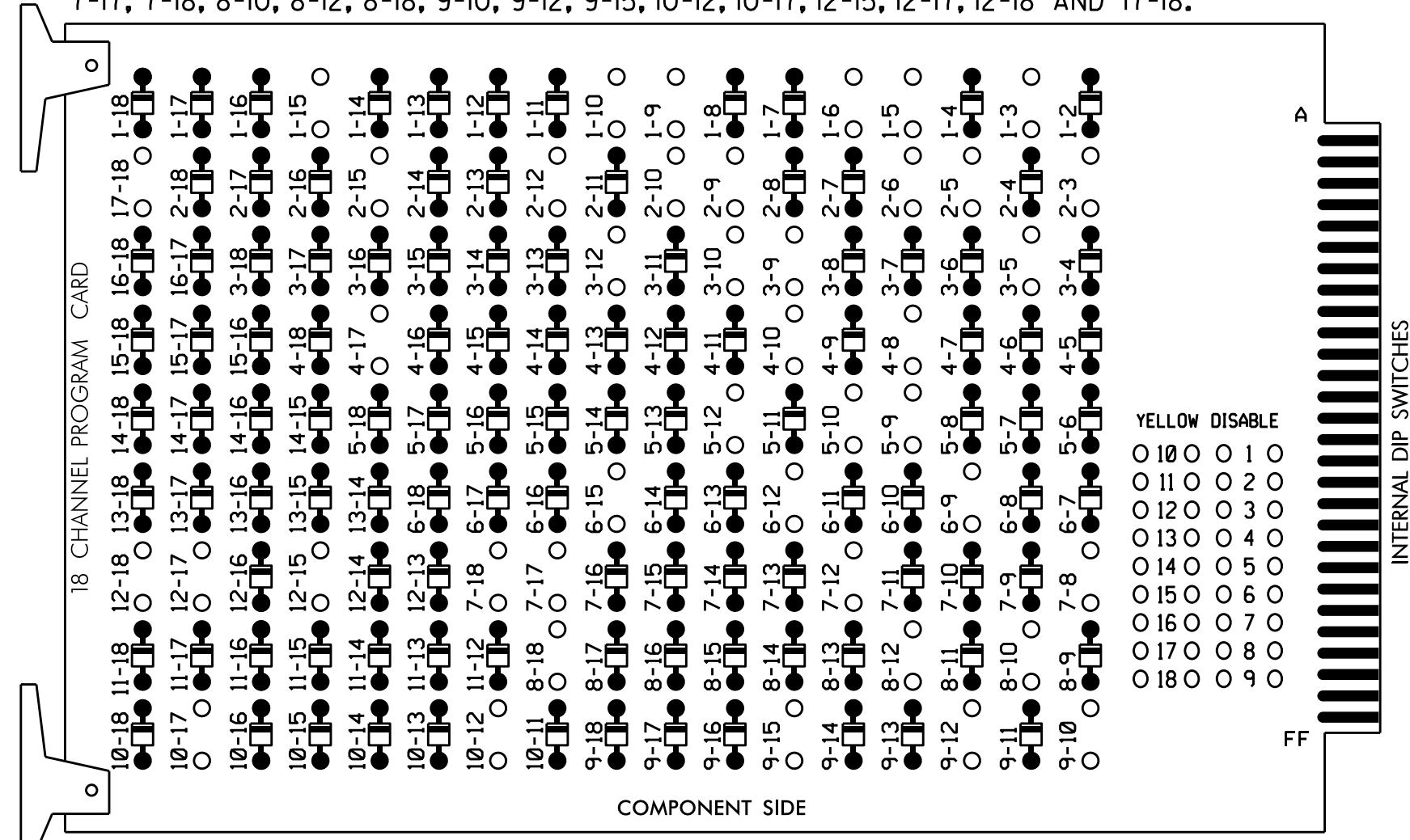


EDI MODEL 2018ECL-NC CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

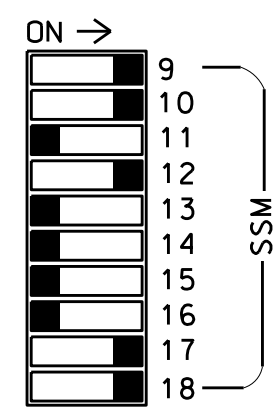
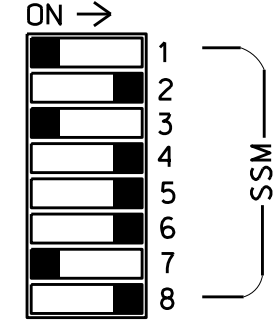
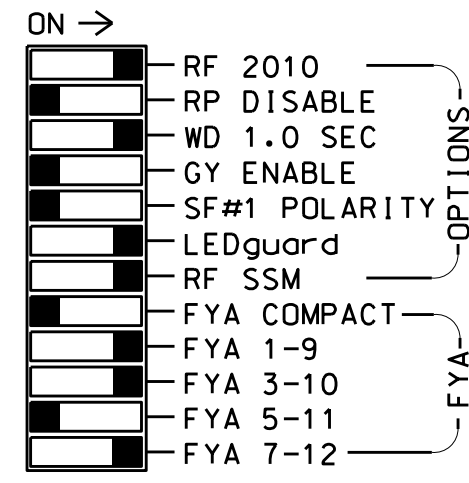
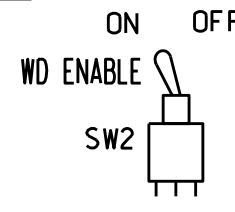
REMOVE DIODE JUMPERS 1-3, 1-5, 1-6, 1-9, 1-10, 1-15, 2-3, 2-5, 2-6, 2-9, 2-10, 2-12, 2-15, 3-5, 3-9, 3-10, 3-12, 4-8, 4-10, 4-17, 5-9, 5-10, 5-12, 6-9, 6-12, 6-15, 7-8, 7-12, 7-17, 7-18, 8-10, 8-12, 8-18, 9-10, 9-12, 9-15, 10-12, 10-17, 12-15, 12-17, 12-18 AND 17-18.



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.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



■ = 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.
- Enable Simultaneous Gap-Out for all Phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Startup In Green and Yellow Flash.
- Program phase 6 for Startup Ped Call.
- Program overlaps 1 and 6 as Wag Overlaps.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- The cabinet and controller are part of the Salisbury Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,S9,S10,S11
 AUX S1,AUX S2,AUX S3,AUX S5,AUX S6
 PHASES USED.....1,2,3,4,5,6,6PED,7,8
 OVERLAP "A".....1+2
 OVERLAP "B".....4+5
 OVERLAP "C".....NOT USED
 OVERLAP "D".....2+3
 OVERLAP "E".....7
 OVERLAP "F".....3
 OVERLAP "G".....5
 OVERLAP "H".....3

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	
GMU 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	OLG	4	4 PED	5	6	6 PED	OLH	8	8 PED	OLA	OLB	OLE	OLC	OLD	OLF	
SIGNAL HEAD NO.	11	21,22	NU	43	41,42	44	51	61,62	P61	P62	23	81,82	NU	11	43	71,72	NU	23	31
RED		128			101			134			107				A124			A101	
YELLOW	*	129		*	102			135		*	108								
GREEN		130			103			136			109								
RED ARROW								131							A121	A111		A104	
YELLOW ARROW								132							A122	A125	A112	A102	A105
FLASHING YELLOW ARROW															A123	A126		A103	
GREEN ARROW	127							133			124				A113			A106	
										119									
											121								

NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1 1A	∅ 2/SYS 2A/S16	S TOP	S TOP	∅ 3 3A	∅ 4/SYS 4A/S15	∅ 4 4C	S TOP	S TOP	S TOP	S TOP	S TOP	∅ 6 PED DC ISOLATOR	FS DC ISOLATOR
L	NOT USED	∅ 2/SYS 2B/S17	Y TOP	Y TOP	NOT USED	∅ 4 4B	NOT USED	Y TOP	Y TOP	Y TOP	Y TOP	Y TOP	NOT USED	ST DC ISOLATOR
U	∅ 5 5A	∅ 5 5B	∅ 6/SYS 6A/S18	∅ 7 7A	∅ 7 7B	S TOP	S TOP	S TOP	S TOP	S TOP	S TOP	S TOP	* GPS EVP	S TOP
L	NOT USED	NOT USED	∅ 6/SYS 6B/S19	NOT USED	∅ 8 8A	Y TOP	Y TOP	Y TOP	Y TOP	Y TOP	Y TOP	Y TOP	Y TOP	Y TOP

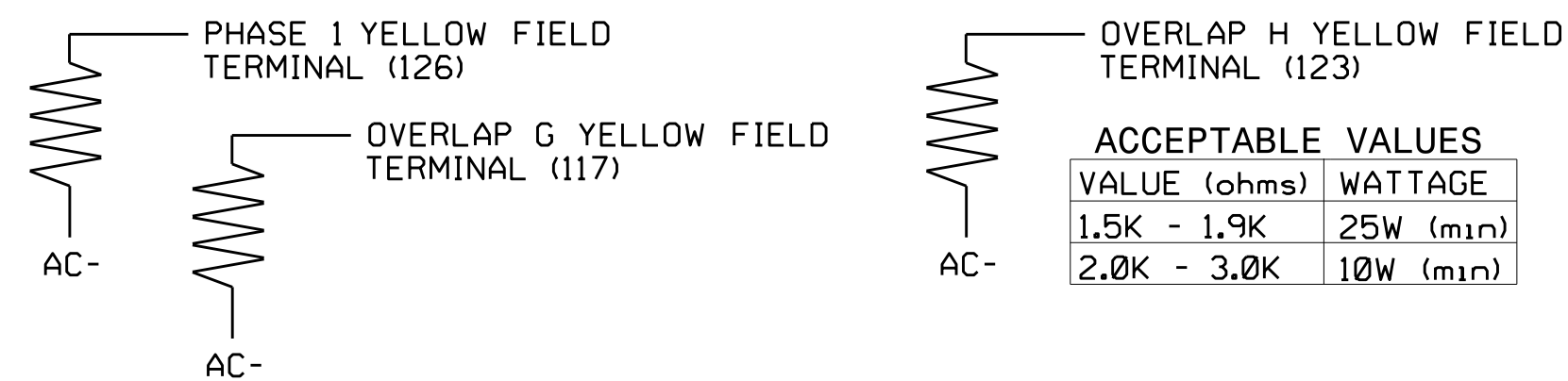
EX.: 1A, 2A, ETC. = LOOP NO.'S
 *See GPS Preemption Installation Note Below
 ⊗ Wired Input - Do not populate slot with detector cord
 FS = FLASH SENSE
 ST = STOP TIME

GPS PREEMPTION INSTALLATION NOTE

Install a GPS preemption system. Perform installation according to manufacturer's directions and NCDOT engineer approved mounting location to accomplish the preemption schemes shown on the Signal Design Plans.

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)



ACCEPTABLE VALUES

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

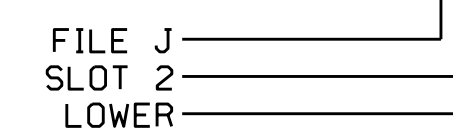
INPUT FILE CONNECTION & PROGRAMMING CHART

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
1A ¹	TB2-1,2	I1U	56	18	1	1	Y	Y			15
	-	J4U	48	10★	26	6	Y	Y	Y		3
	-	I1U	56	18★	51	1	Y	Y			
2A/S16	TB2-5,6	I2U	39	1	2	2/SYS	Y	Y			
2B/S17	TB2-7,8	I2L	43	5	12	2/SYS	Y	Y			
3A	TB4-5,6	I5U	58	20	3	3	Y	Y			3
4A/S15	TB4-9,10	I6U	41	3	4	4/SYS	-	Y		1.9	
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			
* 4C	TB6-1,2	I7U	65	27	34	4	Y	Y			
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			3
5B	TB3-5,6	J2U	40	2	6	5	Y	Y			15
6A/S18	TB3-9,10	J3U	64	26	36	6/SYS	Y	Y			
6B/S19	TB3-11,12	J3L	77	39	46	6/SYS	Y	Y			
7A	TB5-5,6	J5U	57	19	7	7	Y	Y			
7B	TB5-9,10	J6U	42	4	8	7	Y	Y			
8A	TB5-11,12	J6L	46	8	18	8	Y	Y			10
PED PUSH BUTTONS											
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					

NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT 113.

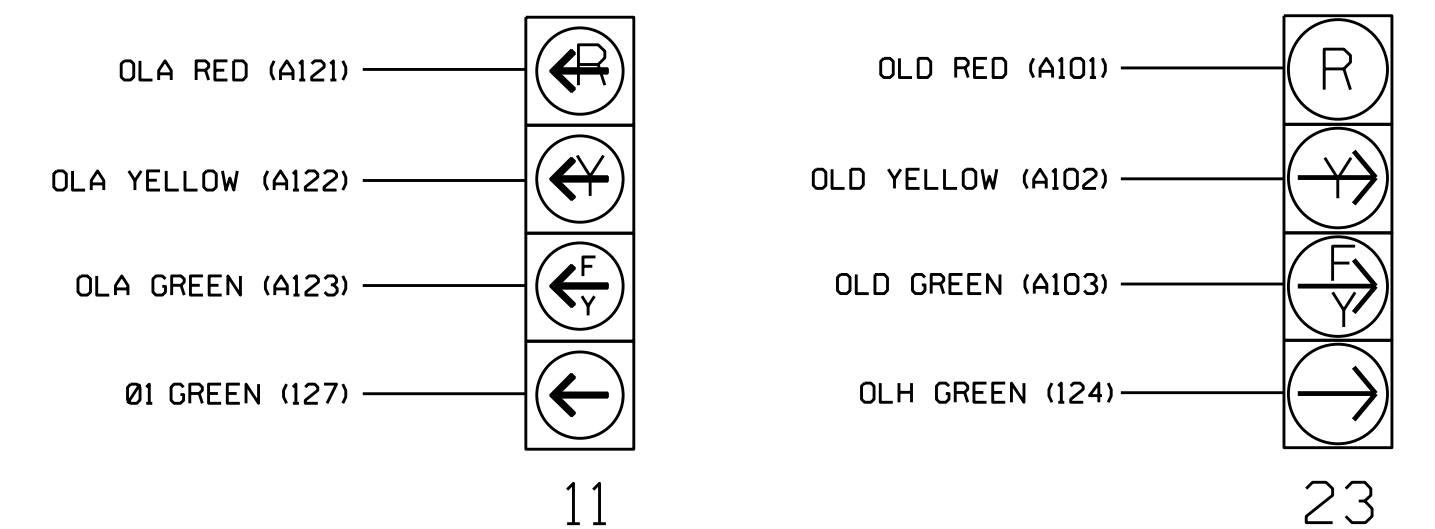
- ¹Add jumper from I1-W to J4-W, on rear of input file.
 * See Input Page Assignment programming details on sheets 6 and 7.
 * Adjust sensitivity setting for bicycle detection.

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

The sequence display for signal heads 11, 23 and 43 requires special logic programming. See sheet 5 for programming instructions.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0640
 DESIGNED: January 2022
 SEALED: 1/27/2022
 REVISED: N/A

Electrical Detail - Sheet 1 of 7

ELECTRICAL AND PROGRAMMING DETAILS FOR: US 601 (Jake Alexander Blvd S) at SR 2528 (Julian Rd) and Martin Luther King Jr Ave

Rowan County, Salisbury

PLAN DATE: January 2022 REVIEWED BY: T. Joyce

PREPARED BY: C. Strickland REVIEWED BY:

REVISIONS: INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: SEAL 031001

DESIGNED BY: T. Joyce 01/28/2022

SIG. INVENTORY NO. 09-0640