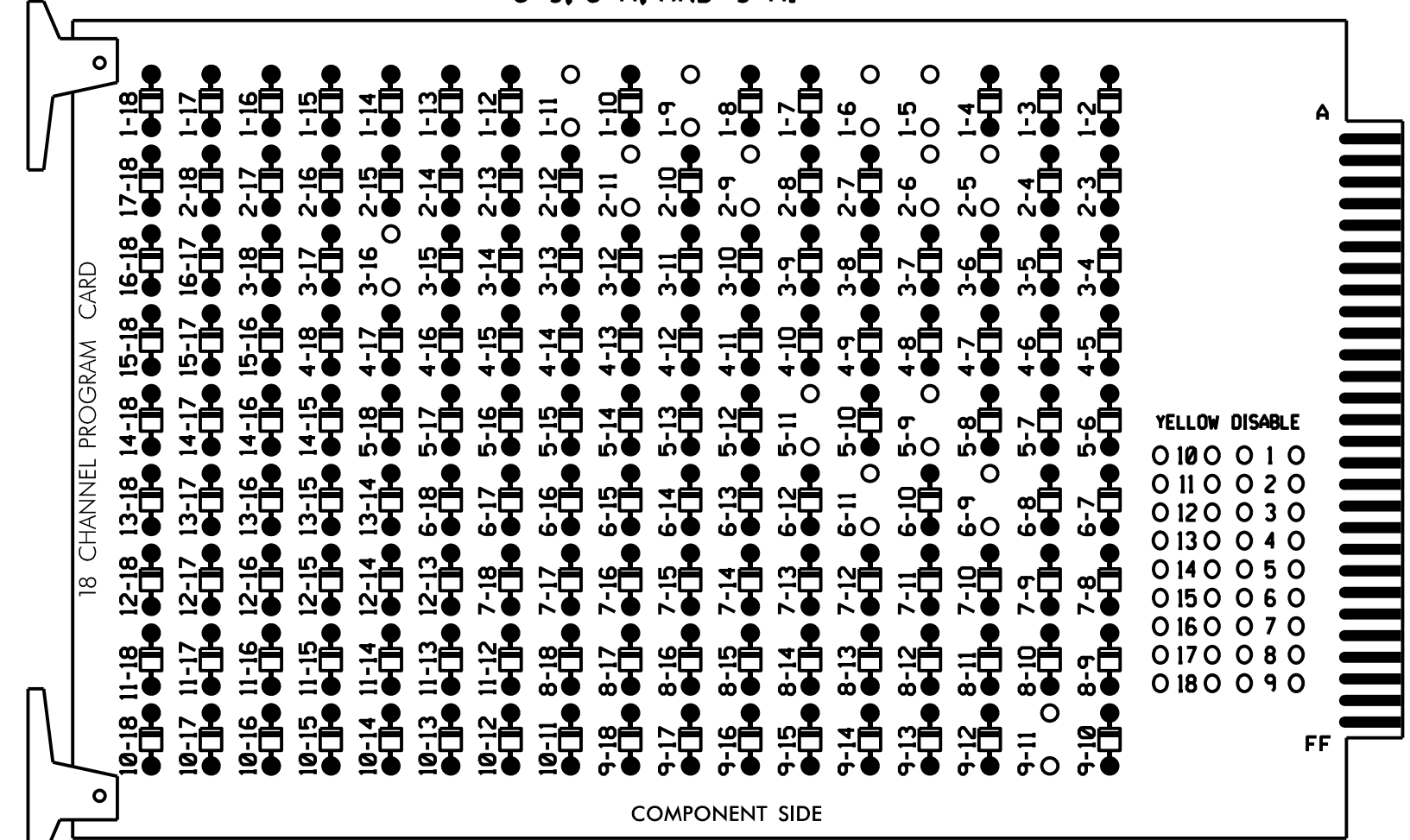


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

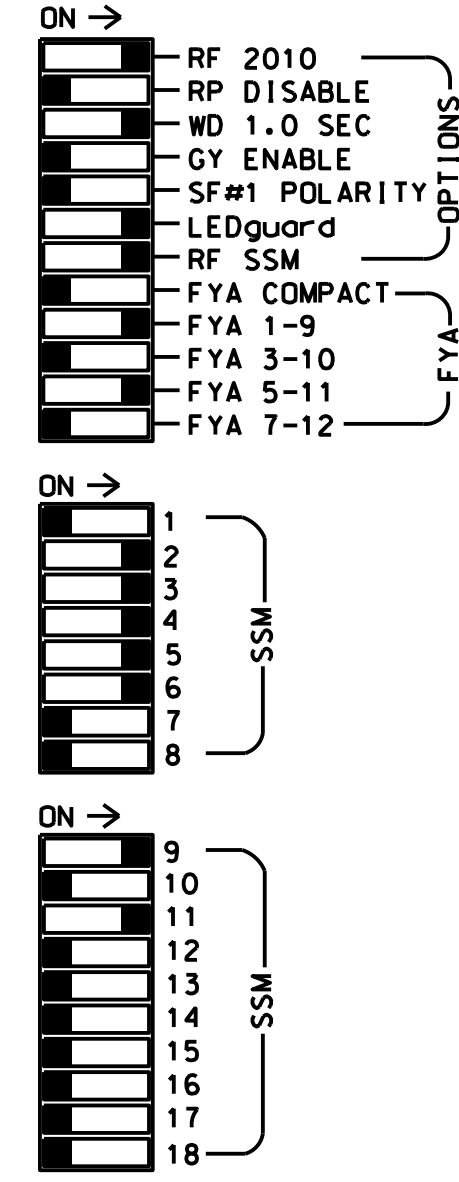
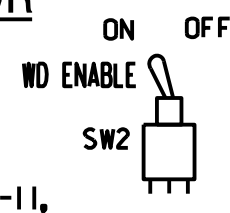
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 2-5, 2-6, 2-9, 2-11, 3-16, 5-9, 5-11, 6-9, 6-11, AND 9-11.



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.
- Program controller to start up in phase 2 Green and 6 Green.
- The cabinet and controller are part of the SR 4771 (Reedy Fork Parkway) CLS, Signal System 10727.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/AUX
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,S12, AUX S1,AUX S4
 PHASES USED.....1,2,3,4,5,6
 OVERLAP "A".....*
 OVERLAP "B".....NOT USED
 OVERLAP "C".....*
 OVERLAP "D".....NOT USED

* See overlap programming detail on sheet 2

SIGNAL HEAD HOOK-UP CHART

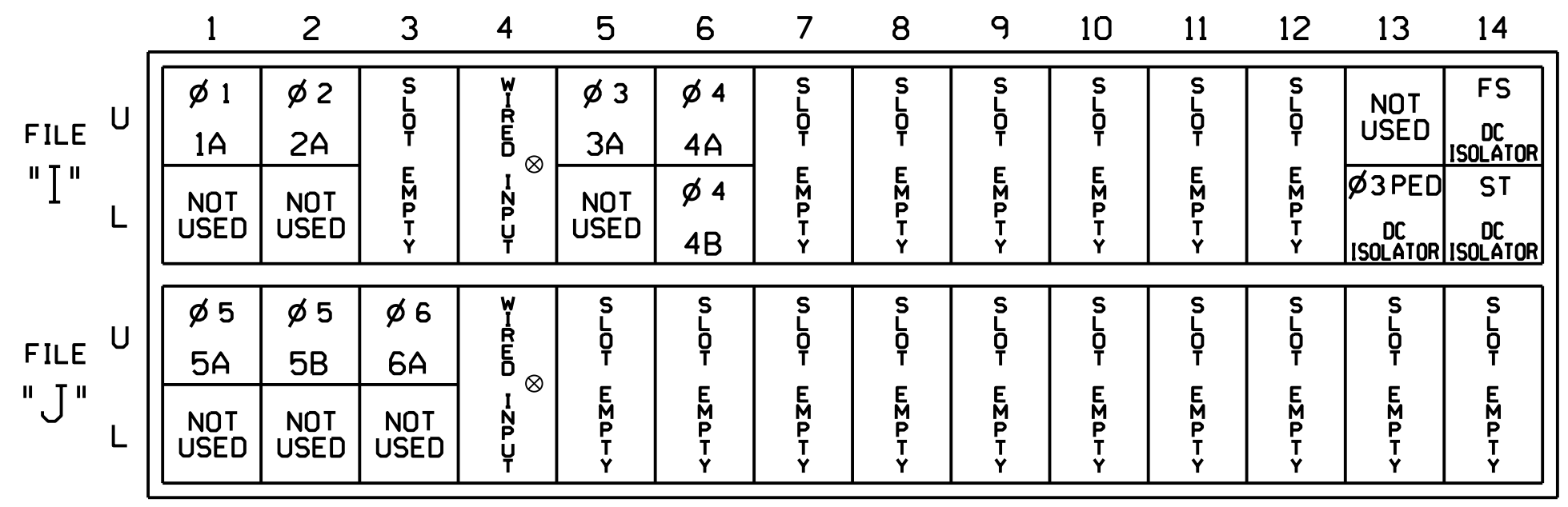
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6							
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18							
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	** PED	OLA	OLB	SPARE	OLC	OLD	SPARE							
SIGNAL HEAD NO.	11	21,22	NU	31	32	41	42	43,44	62	NU	51	43	61,62	NU	NU	NU	P31, P32	11	NU	NU	51	NU	NU		
RED		128		116	116	101	101			*			134												
YELLOW	*	129		117	117	102	102						135												
GREEN		130		118	118	103	103						136												
RED ARROW						101															A121			A114	
YELLOW ARROW						102		102				132										A122			A115
FLASHING YELLOW ARROW													A123											A116	
GREEN ARROW	127			118		103	103	103		133	133														
Hand icon																							110		
Person icon																							112		

NU = Not Used

- * Denotes install load resistor. See load resistor installation detail this sheet.
- ** Load switch S12 must be reassigned from phase 8 Ped to phase 3 Ped. See programming detail on sheet 2.
- ★ See pictorial of head wiring in detail this sheet.

INPUT FILE POSITION LAYOUT

(front view)



EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	ADDED INITIAL	DETECTOR TYPE
1A ¹	TB2-1,2	11U	56	1 ★	1	YES		15		S
	-	J4U	48	26 ★	6	YES				S
2A	TB2-5,6	12U	39	2	2	YES				S
3A	TB4-5,6	15U	58	3	3	YES		5		S
4A	TB4-9,10	16U	41	4	4	YES				S
4B	TB4-11,12	16L	45	14	4	YES				S
5A ²	TB3-1,2	J1U	55	5 ★	5	YES		15		S
	-	14U	47	22 ★	2	YES				S
5B	TB3-5,6	J2U	40	6	5	YES		15		S
6A	TB3-9,10	J3U	64	36	6	YES				S
PED PUSH BUTTONS										
P31,P32	TB8-8,9	113L	70	PED 8	3 PED					

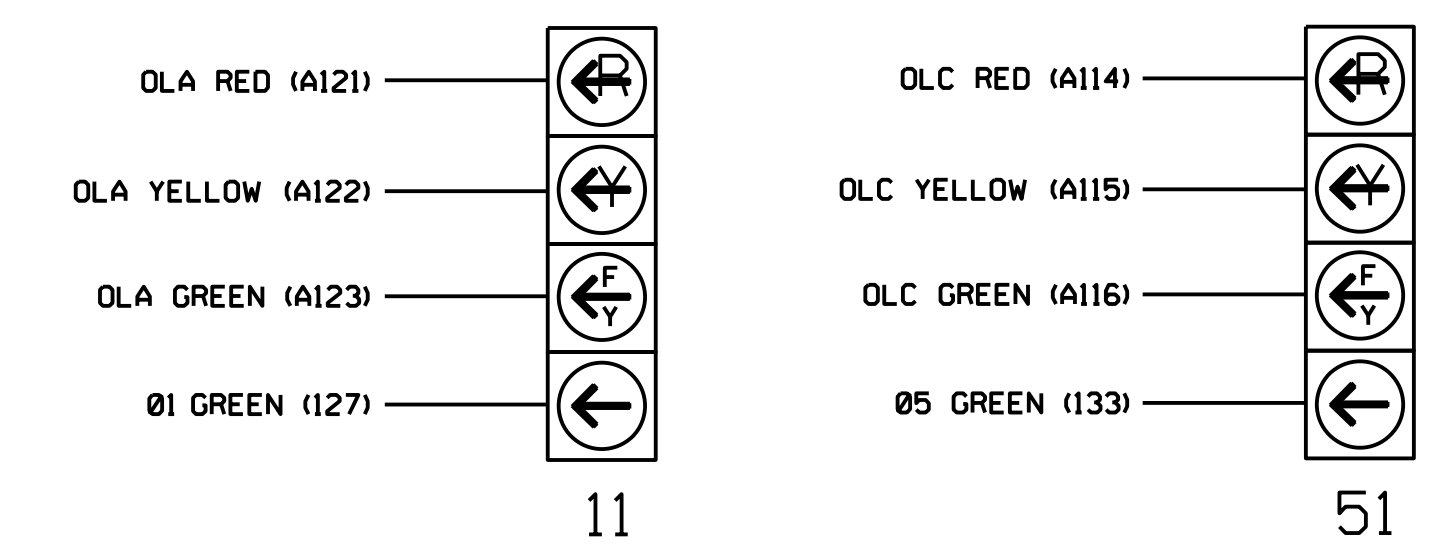
NOTE:
 INSTALL DC ISOLATOR IN INPUT FILE SLOT 113.

- ¹Add jumper from I1-W to J4-W. on rear of input file.
- ²Add jumper from J1-W to I4-W. on rear of input file.

★ For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheet 3.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



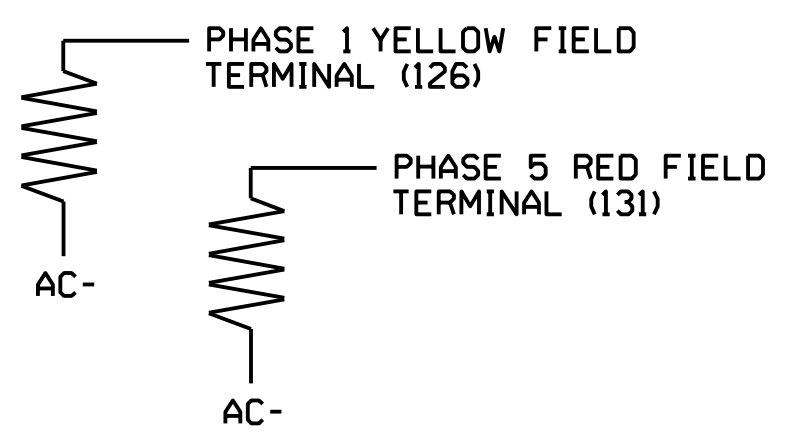
NOTE

The sequence display for signal heads 11 and 51 requires special logic programming. See sheet 2 for programming instructions.

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

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



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-0903
 DESIGNED: April 2020
 SEALED: 04/20/2020
 REVISED: N/A

Project #: 180914

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 NCBELS FIRM LICENSE NO. C-2522

Electrical Detail - Final Design - Sheet 1 of 4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

Prepared for: SR 4771 (Reedy Fork Parkway) at SR 2526 (Summit Avenue)/Dixie Sales Driveway

Division 7 Guilford County Greensboro

PLAN DATE: April 2020 REVIEWED BY: R. Hinshaw

PREPARED BY: T.S. Warren REVIEWED BY: L. Boyer

REVISIONS INIT. DATE

750 N. Greenfield Pkwy, Corner, NC 27529

Seal of North Carolina Professional Engineer L. M. BOYER License No. 030912

DATE: 04/20/2020

SIG. INVENTORY NO. 07-0903