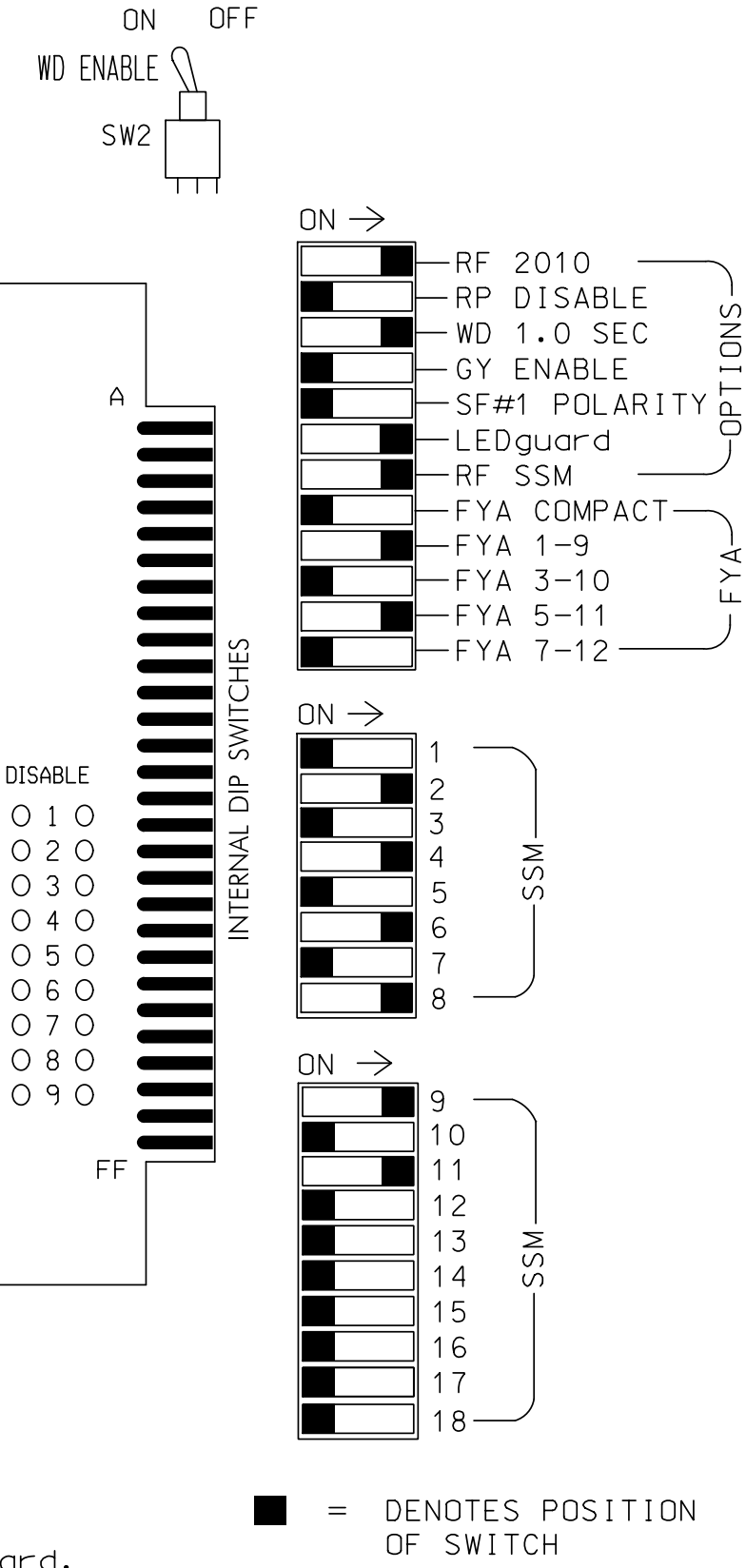
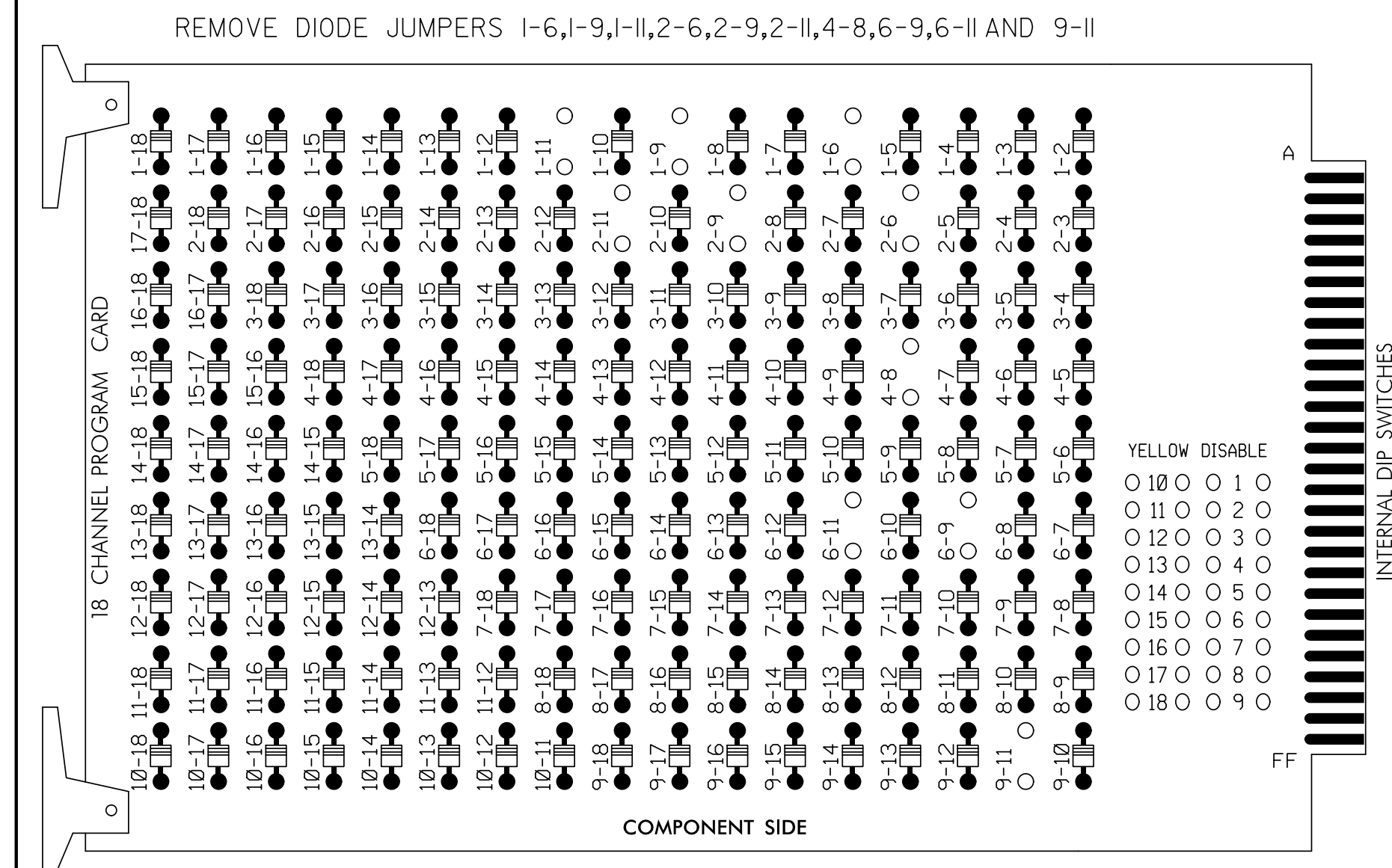


### EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches 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.
  - Integrate monitor with Ethernet network in cabinet.

### 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 phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for volume density operation.
- Program controller to start up in phase 2 Green and 6 Green.
- The cabinet and controller are part of the Fayetteville Signal System.

### 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,S5,S8,S11  
 AUX S1,AUX S4  
 PHASES USED.....1,2,4,6,8  
 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
PHASE	1	2	3	4	5	6	7	8	9	10	11	12	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	22,23	NU	NU	41,42 43	NU	NU	61,62	NU	NU	81,82	NU	11	NU	NU	21	NU	NU
RED	128				101			134			107							
YELLOW	*	129			102			135			108							
GREEN		130			103			136			109							
RED ARROW													A121			A114		
YELLOW ARROW													A122			A115		
FLASHING YELLOW ARROW													A123			A116		
GREEN ARROW	127																	

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)

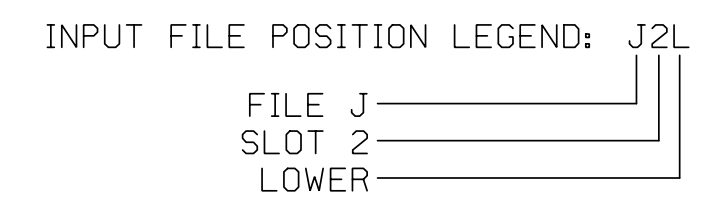
FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 2	∅ 2	-ORS	-ORS	∅ 4	-ORS	-ORS	-ORS	-ORS	-ORS	-ORS	-ORS	FS
I	1A	2A	2C			4A								DC ISOLATOR
L	NOT USED	∅ 2	NOT USED	←-ORS	←-ORS	NOT USED	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS	DC ISOLATOR
U	-ORS	∅ 6	-ORS	←-ORS	←-ORS	∅ 8	-ORS	-ORS	-ORS	-ORS	-ORS	-ORS	-ORS	-ORS
J		6A		←-ORS	←-ORS	8A								
L	←-ORS	∅ 6	←-ORS	←-ORS	←-ORS	NOT USED	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS
		6B		←-ORS	←-ORS		←-ORS	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS	←-ORS

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

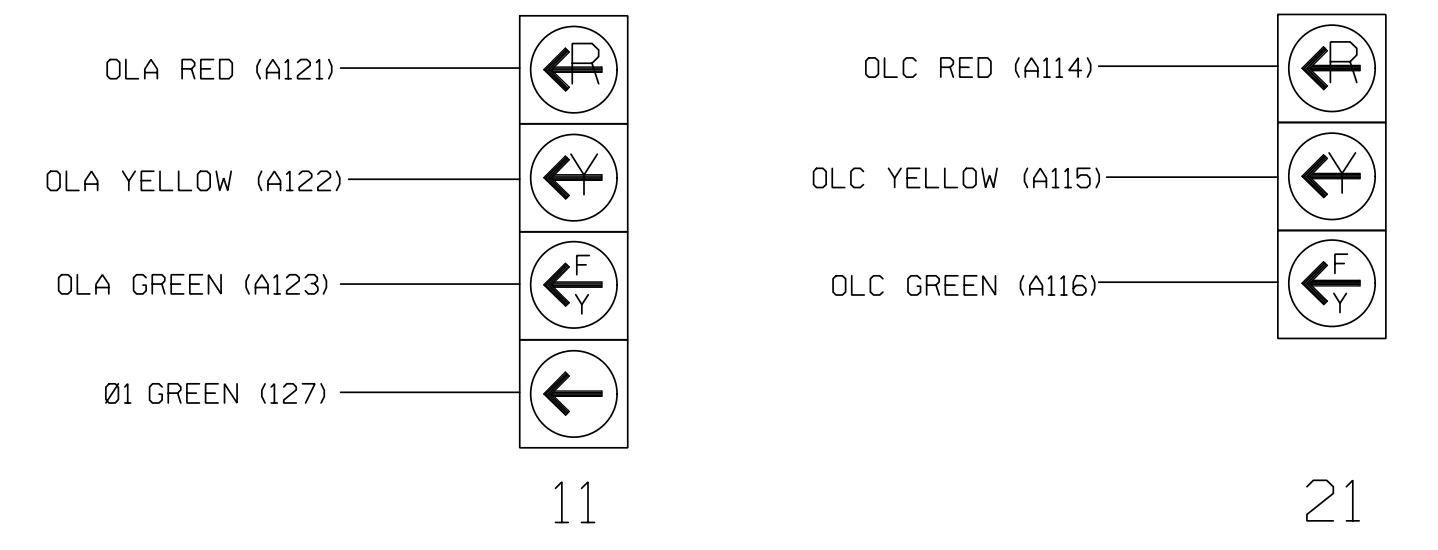
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	DETECTOR TYPE
1A <sup>1</sup>	TB2-1,2	I1U	56	1	1	YES		20	S
2A	TB2-5,6	J4U	48	26	6	YES		3	G
2B	TB2-7,8	J2L	39	2	2	YES			N
2C	TB2-9,10	J3U	43	12	2	YES			N
4A	TB4-9,10	J6U	63	32	2	YES		3	G
6A	TB3-5,6	J2U	41	4	4	YES		10	S
6B	TB3-7,8	J2L	40	6	6	YES			N
8A	TB5-9,10	J6U	44	16	6	YES			N
			42	8	8	YES		3	S

<sup>1</sup>Add jumper from I1-W to J4-W, on rear of input file.



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)

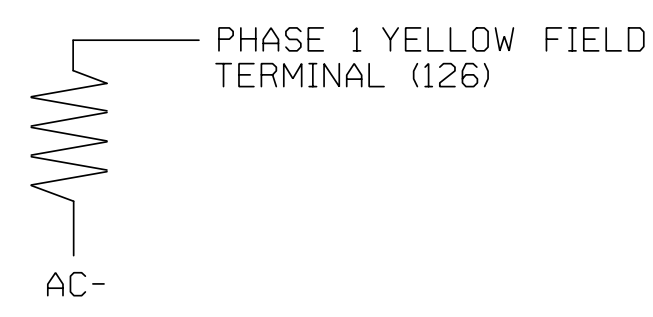


### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

ACCEPTABLE VALUES

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



Electrical Detail Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical and Programming Details For: I-95 Business / US 301 at SR 2220 (Tom Starling Road) and SR 1243 (Southern Blvd)

Division 6 Cumberland County Hope Mills

PLAN DATE: August 2016 REVIEWED BY: SL Phillips  
 PREPARED BY: SP Pennington REVIEWED BY: KP Baumann

REVISIONS: INIT. DATE

Prepared For: Transportation Mobility and Safety Division, STATE OF NORTH CAROLINA, Department of Transportation, Signal Management Section, 750 N. Greenfield Pkwy, Garner, NC 27529

PLANS PREPARED IN THE OFFICE OF: **Kimley-Horn**  
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 421 Fayetteville Street, Suite 600  
 Raleigh, NC 27601  
 (919) 677-2000

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0332  
 DESIGNED: June 2016  
 SEALED: 8/3/2016  
 REVISED:

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER STACIE L. PHILLIPS SEAL 032607

DocuSign by: *SLP* 9/22/2016  
 DC87A9ED068437 DATE

SIG. INVENTORY NO. 06-0332

9/21/2016 K:\REAL\_TPD\SIGNALS\4011036345\_Foyehv111.electr\Coalsk64 - Signal Design\5th\_Submit\Final\4851\_060332-2016e1.dgn Susan Pennington