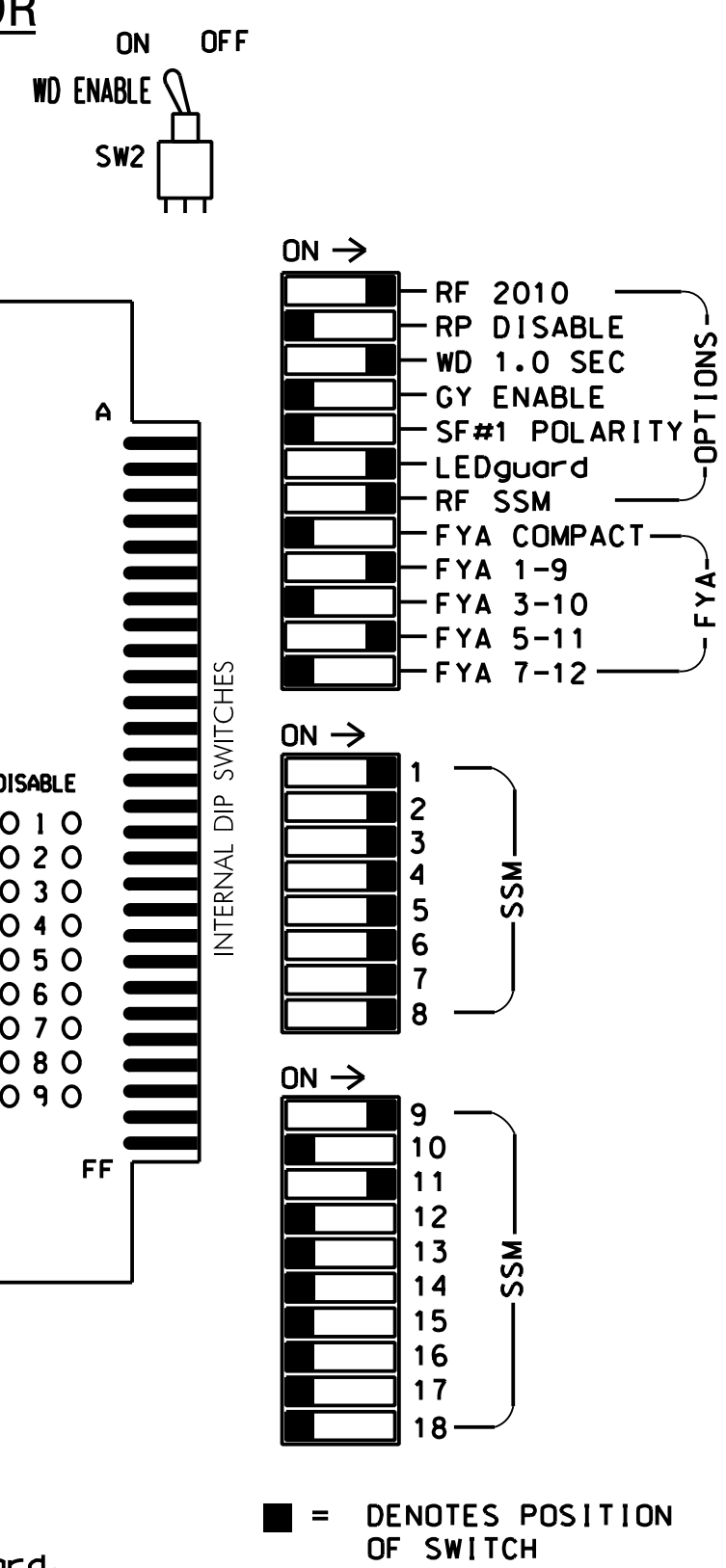
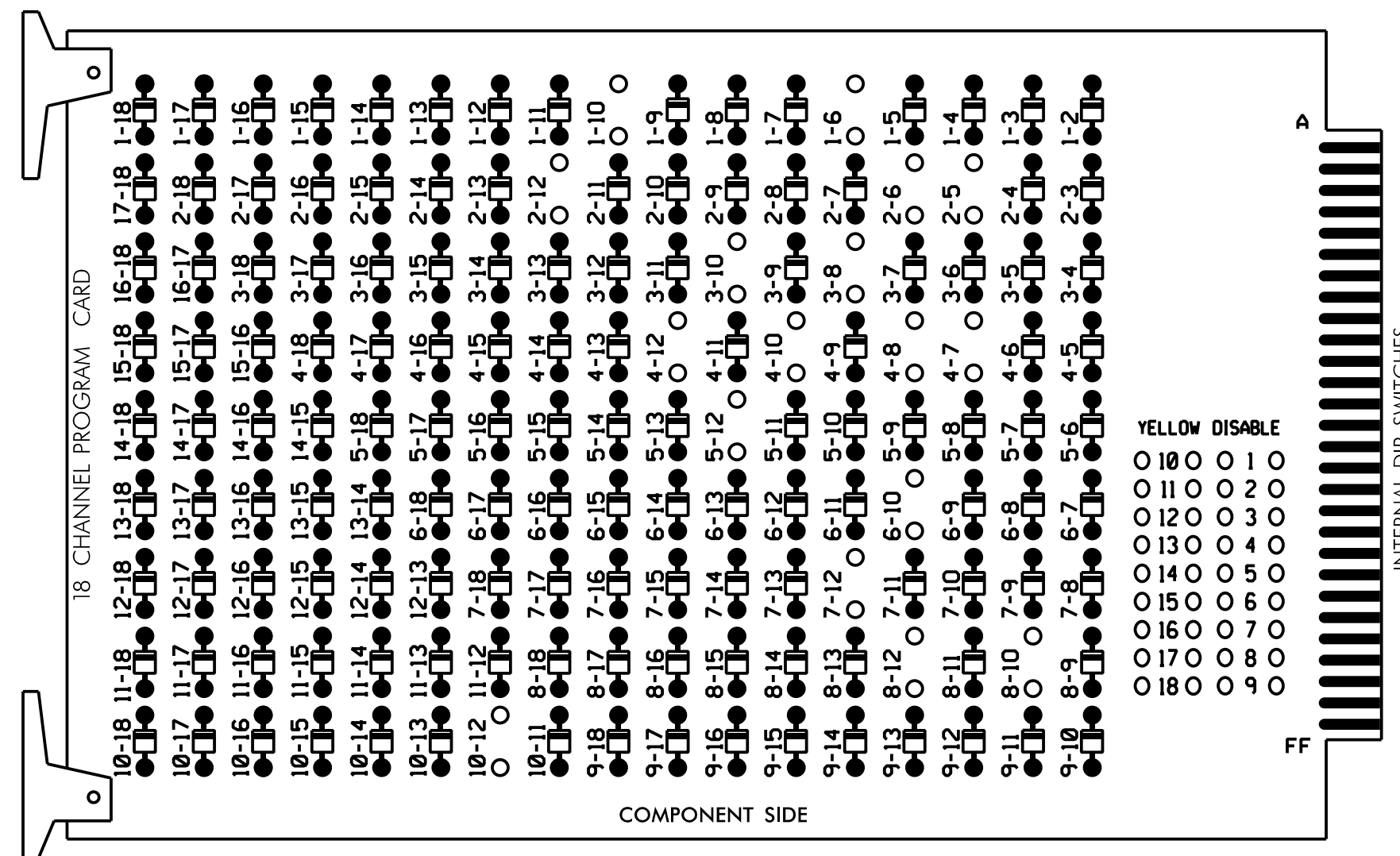


EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-6, 1-10, 2-5, 2-6, 2-12, 3-8, 3-10, 4-7, 4-8, 4-10, 4-12, 5-12, 6-10, 7-12, 8-10, 8-12, and 10-12.



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.
- 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.
- Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlap.
- The cabinet and controller are part of the Wilmington Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 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,S10,S11,AUX S2, AUX S5
 PHASES USED.....1,2,3,4,5,6,7,8
 OVERLAP "A".....NOT USED
 OVERLAP "B".....1+8
 OVERLAP "C".....NOT USED
 OVERLAP "D".....4+5

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.	11,12	21,22	NU	22	31,32	41,42	NU	51,52	61,62	NU	62	71,72	81,82	NU	83	NU	43	NU
RED		128			101			134				107			A124			A101
YELLOW		129			102			135				108						
GREEN		130			103			136				109						
RED ARROW	125				116			131				122						
YELLOW ARROW	126			117	117			132		123	123				A125			A102
FLASHING YELLOW ARROW															A126			A103
GREEN ARROW	127			118	118			133		124	124							

NU = Not Used
 ★ See pictorial of head wiring in detail this sheet.

INPUT FILE POSITION LAYOUT

(front view)

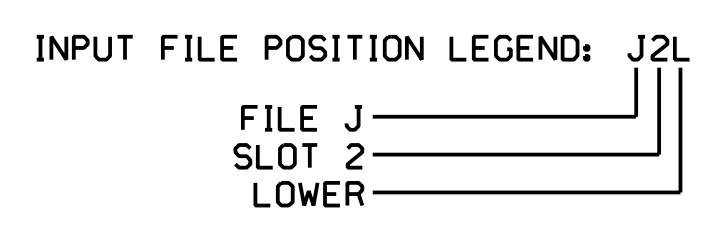
FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14	FS
U	∅ 1	∅ 1	∅ 2	∅ 3	∅ 3	∅ 4	∅ 5	∅ 5	∅ 6	∅ 7	∅ 7	∅ 8	∅ 9	∅ 9	DC ISOLATOR
L	NOT USED	∅ 1	∅ 2	NOT USED	NOT USED	NOT USED	∅ 10	∅ 10	∅ 11	∅ 11	∅ 12	∅ 12	∅ 13	∅ 13	ST
U		∅ 5	∅ 6	∅ 7	∅ 7	∅ 8	∅ 9	∅ 9	∅ 10	∅ 10	∅ 11	∅ 11	∅ 12	∅ 12	DC ISOLATOR
L		5A	5B	7A	7B	8A	∅ 13	∅ 13	∅ 14	∅ 14	∅ 15	∅ 15	∅ 16	∅ 16	
		NOT USED	∅ 5	∅ 6	NOT USED	NOT USED	∅ 17	∅ 17	∅ 18	∅ 18	∅ 19	∅ 19	∅ 20	∅ 20	
		5C	6B												

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

FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

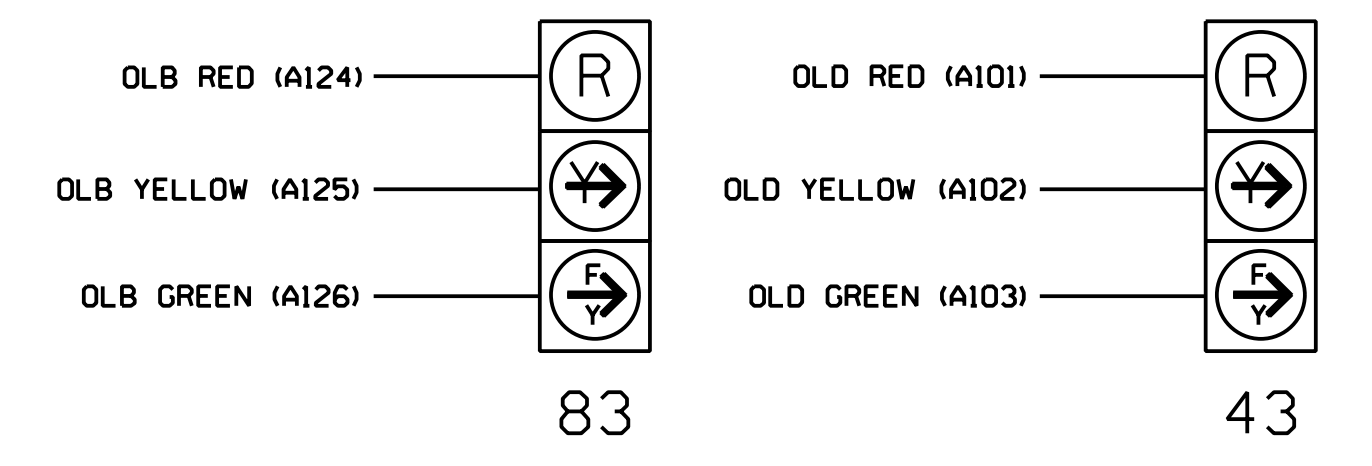
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A	TB2-1,2	I1U	56	18	1	1	Y	Y			
1B	TB2-5,6	I2U	39	1	2	1	Y	Y			
1C	TB2-7,8	I2L	43	5	12	1	Y	Y			15
2A	TB2-9,10	I3U	63	25	32	2	Y	Y			
2B	TB2-11,12	I3L	76	38	42	2	Y	Y			
3A	TB4-5,6	I5U	58	20	3	3	Y	Y			
3B	TB4-9,10	I6U	41	3	4	3	Y	Y			
4A	TB6-1,2	I7U	65	27	34	4	Y	Y			
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			
5B	TB3-5,6	J2U	40	2	6	5	Y	Y			
5C	TB3-7,8	J2L	44	6	16	5	Y	Y			15
6A	TB3-9,10	J3U	64	26	36	6	Y	Y			
6B	TB3-11,12	J3L	77	39	46	6	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	TB7-1,2	J7U	66	28	38	8	Y	Y			



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0380
 DESIGNED: February 2018
 SEALED: 8-1-18
 REVISED: N/A

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



PHASE SEQUENCE PROGRAMMING DETAIL

(program controller as shown below)

FROM OASIS LOCAL CONTROLLER MAIN MENU
 SELECT: 4 PHASE SEQUENCE

PHASE SEQUENCE: PAGE 1 NEXT: PAGES)									
RNG:LEAD	BARRIER 1	X-LAG:LEAD	BARRIER 2	X-LAG					
1 : 1	2	0	3	4	0	0	0	0	0
2 : 0	6	0	5	8	0	0	0	0	7
3 : 0	0	0	0	0	0	0	0	0	0
4 : 0	0	0	0	0	0	0	0	0	0

Electrical Detail - Sheet 1 of 2
 Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for: US 17 (Market Street) at SR 1402 (Porters Neck Road) / Porters Neck Center Entrance

Division 03 New Hanover Co. Wilmington

PLAN DATE: February 2018 REVIEWED BY: A.D. Klinksiek

PREPARED BY: A.H. Thornburg REVIEWED BY: N.R. Simmons

REVISIONS	INIT.	DATE

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464 W. LASHA R. SIMMONS

DocuSigned by: 8/1/2018

SIG. INVENTORY NO. 03-0380