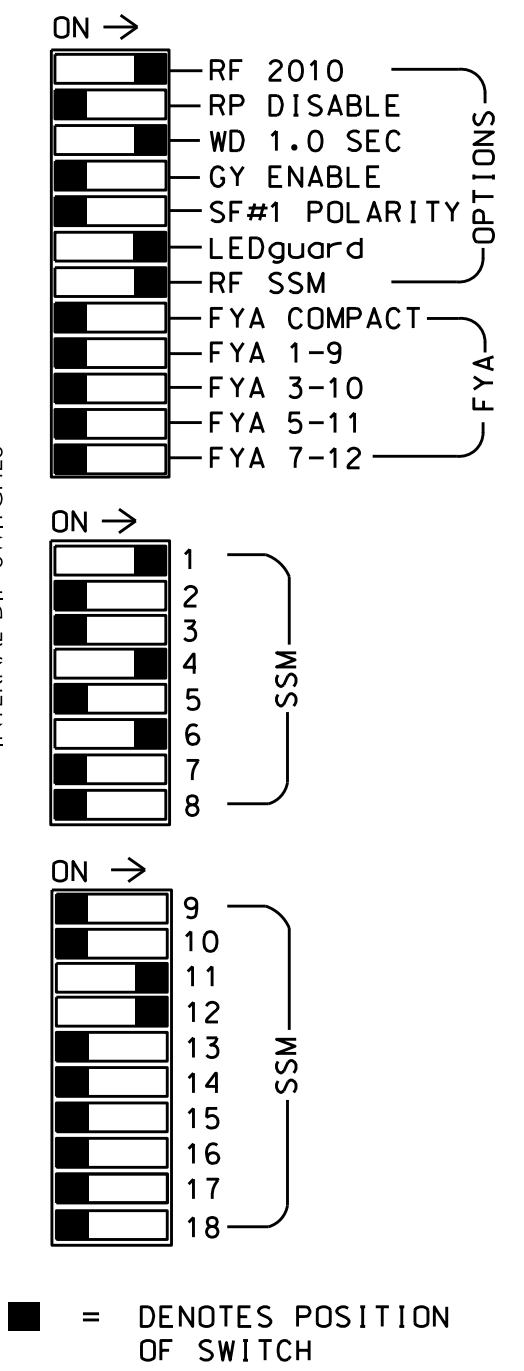
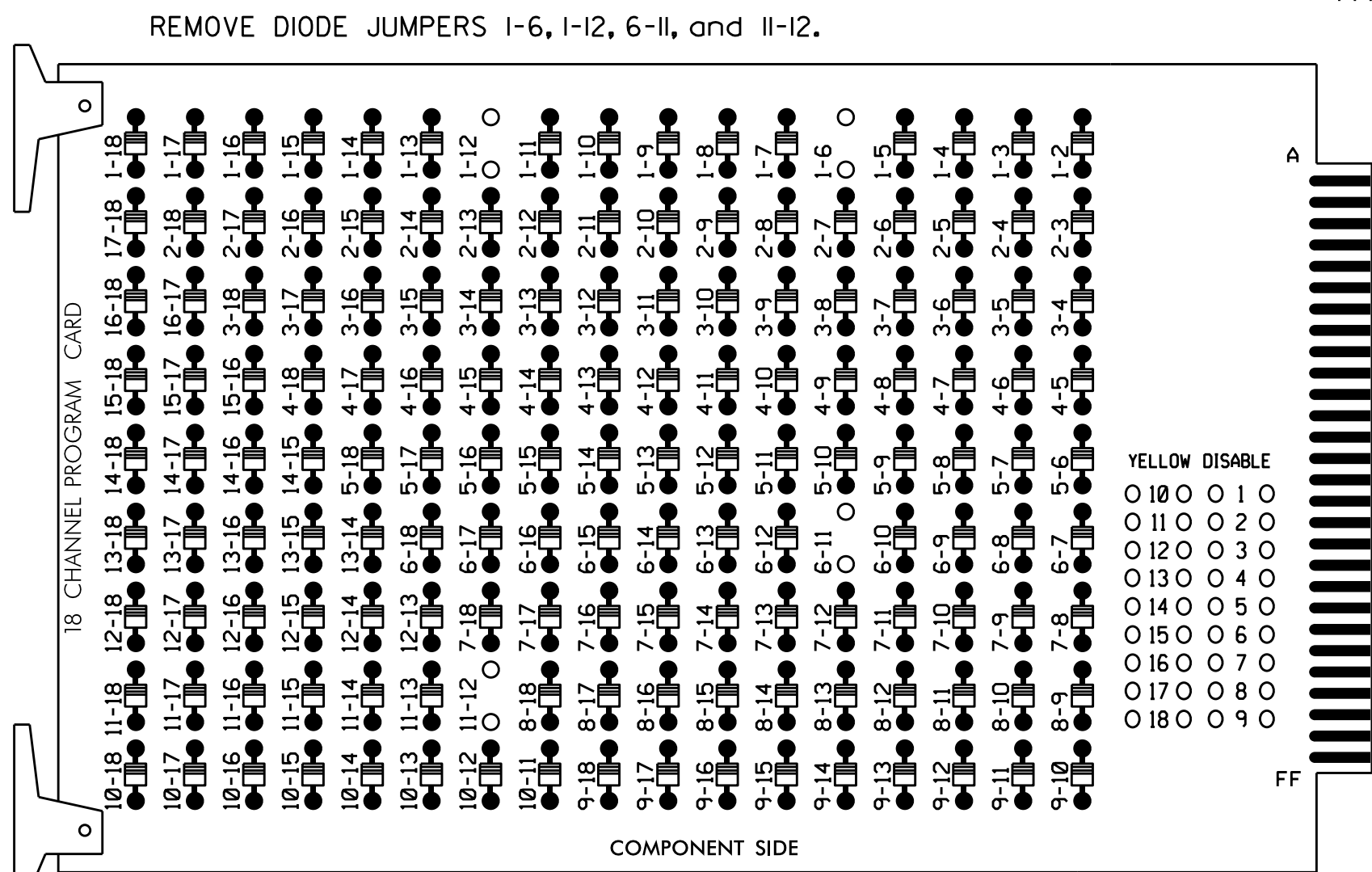


EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL

(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.

■ = 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 Start Up In Green.
- Program phases 2 and 6 for Yellow Flash.
- The cabinet and controller are part of the Asheville 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,S5,S8,AUX S4,AUX S5
 PHASES USED.....1,2,4,5,6,9*
 OVERLAP A.....NOT USED
 OVERLAP B.....NOT USED
 OVERLAP C.....2+9
 OVERLAP D.....5+9
 * Phase used during Coordination 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
EMV 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	NC	NU	NU	41,42	NU	NC	61,62	NU	NU	NU	NU	NU	NU	NU	21,22	51	NU
RED					101			134								A114		
YELLOW					102			135								A115		
GREEN					103			136								A116		
RED ARROW	125																	A101
YELLOW ARROW	126																	A102
GREEN ARROW	127																	A103

NU = Not Used
 NC = Not Connected

OVERLAP PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS).

PRESS '+' TWICE

PAGE 1: VEHICLE OVERLAP 'C' SETTINGS
 PHASE: :12345678910111213141516
 VEH OVL PARENTS: : X X
 VEH OVL NOT VEH: :
 VEH OVL NOT PED: :
 VEH OVL GRN EXT: :
 STARTUP COLOR: - RED - YELLOW - GREEN
 FLASH COLORS: - RED - YELLOW - GREEN
 SELECT VEHICLE OVERLAP OPTIONS: (Y/N)
 FLASH YELLOW IN CONTROLLER FLASH?...Y
 GREEN EXTENSION (0-255 SEC)...0
 YELLOW CLEAR (0=PARENT,3-25.5 SEC)..5.0
 RED CLEAR (0=PARENT,0.1-25.5 SEC)...1.2
 OUTPUT AS PHASE # (0=NONE, 1-16)...0

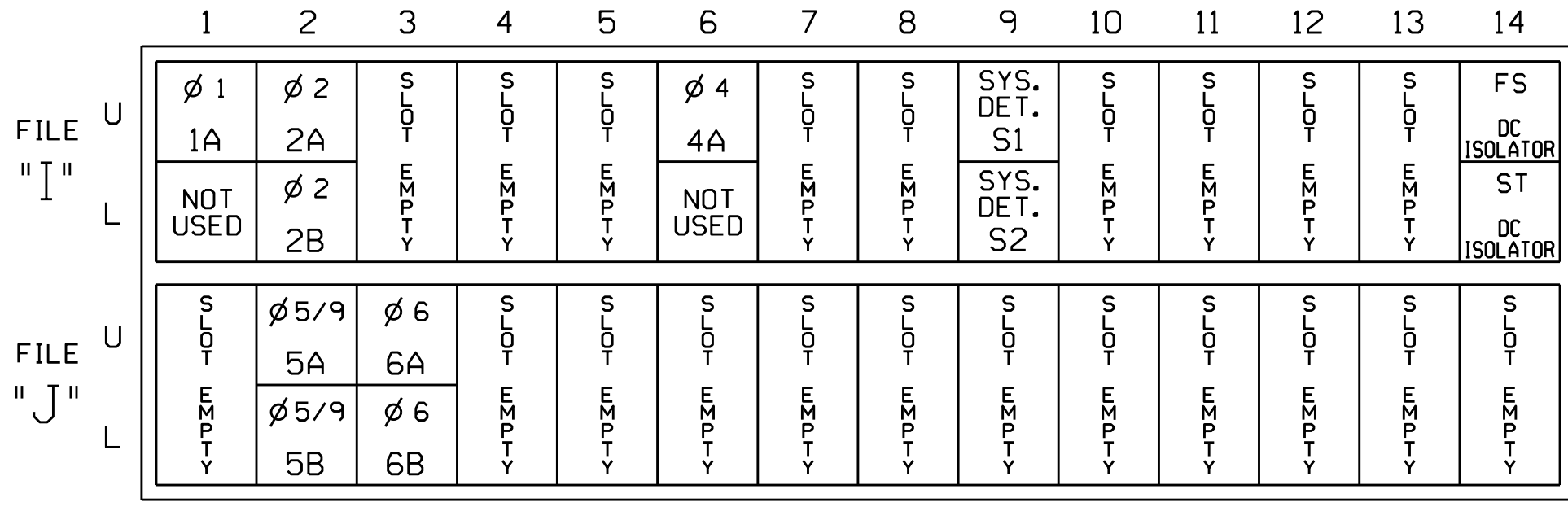
PRESS '+'

PAGE 1: VEHICLE OVERLAP 'D' SETTINGS
 PHASE: :12345678910111213141516
 VEH OVL PARENTS: : X X
 VEH OVL NOT VEH: :
 VEH OVL NOT PED: :
 VEH OVL GRN EXT: :
 STARTUP COLOR: - RED - YELLOW - GREEN
 FLASH COLORS: - RED - YELLOW - GREEN
 SELECT VEHICLE OVERLAP OPTIONS: (Y/N)
 FLASH YELLOW IN CONTROLLER FLASH?...N
 GREEN EXTENSION (0-255 SEC)...0
 YELLOW CLEAR (0=PARENT,3-25.5 SEC)..3.0
 RED CLEAR (0=PARENT,0.1-25.5 SEC)...2.3
 OUTPUT AS PHASE # (0=NONE, 1-16)...0

OVERLAP PROGRAMMING COMPLETE

INPUT FILE POSITION LAYOUT

(from view)



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

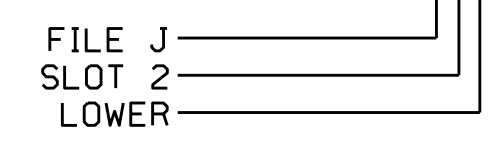
FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A	TB2-1,2	11U	56	18	1	1	Y	Y			
2A	TB2-5,6	12U	39	1	2	2	Y	Y			
2B	TB2-7,8	12L	43	5	12	2	Y	Y			
4A	TB4-9,10	16U	41	3	4	4	Y	Y			
5A	TB3-5,6	J2U	40	2	6	5/9	Y	Y			
5B	TB3-7,8	J2L	44	6	16	5/9	Y	Y			
6A	TB3-9,10	J3U	64	26	36	6	Y	Y			
6B	TB3-11,12	J3L	77	39	46	6	Y	Y			
* S1	TB6-9,10	19U	60	22	11	SYS					
* S2	TB6-11,12	19L	62	24	13	SYS					

* SYSTEM DETECTOR ONLY. REMOVE THE VEHICLE PHASE ASSIGNED TO THIS DETECTOR IN THE DEFAULT PROGRAMMING.

INPUT FILE POSITION LEGEND: J2L



PHASE SEQUENCE PROGRAMMING DETAIL

(program controller as shown below)

FROM MAIN MENU PRESS '4' (PHASE SEQUENCE), THEN PRESS 'NEXT' TO GO TO PAGE 2.

PHASE SEQUENCE: PAGE 2	NEXT: PAGES)					
RNG:LEAD	BARRIER 1	X-LAG:LEAD	BARRIER 2	X-LAG:LEAD	BARRIER 3	X-LAG
1 :1	2 0	0 0	9 0	0 0	4 0	0 0
2 :5	6 0	0 0	0 0	0 0	0 0	0 0
3 :0	0 0	0 0	0 0	0 0	0 0	0 0
4 :0	0 0	0 0	0 0	0 0	0 0	0 0

Notes:

- This phase sequence is for Phase Sequence page 2 only.
- This phase sequence page is used during Coordination only.
- This phase sequence page allows phase 5 to be served in barrier 1, and then allows it to be reserved in barrier 2 via phase 9 before allowing phase 4 to be served in barrier 3.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0646
 DESIGNED: February 2016
 SEALED: 11/1/2016
 REVISED: N/A

Electrical Detail

Electrical and Programming Details for: **NC 191 (Brevard Road) at I-26 Westbound Ramp**

Division 13 Buncombe County Asheville

PLAN DATE: October 2016 REVIEWED BY: BAS

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS: _____ INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER KEITH M. MIMS

DocuSigned by: Keith M. Mims 11/7/2016

SIG. INVENTORY NO. 13-0646

07-NOV-2016 07:43 S:\ITS\ASIS\13-0646\Signal\work\hgr\coups\sig_mon\hgr\stron\gh\30646_sml.elec.xxx.dgn somstrong