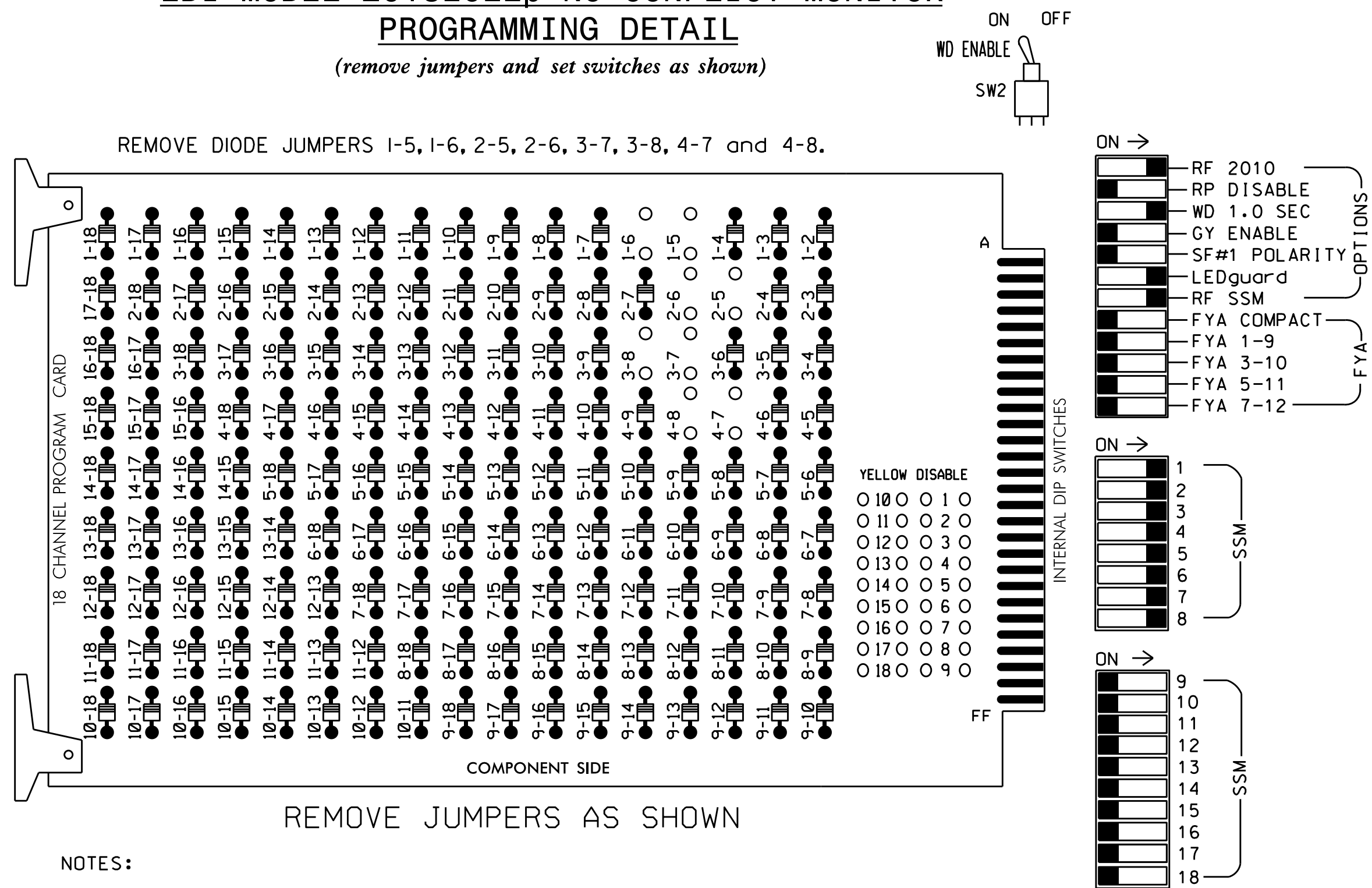


EDI MODEL 2018EClip-NC CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

NOTES

1. 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.
2. Enable Simultaneous Gap-Out for all phases.
3. Program controller to start up in phase 2 Green and 6 Green.
4. The cabinet and controller are part of the Fayetteville Signal System.

SIGNAL HEAD HOOK-UP CHART

| LOAD SWITCH NO. | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | S9 | S10 | S11 | S12 | | | | |
|-----------------|-----|-----|-------|----|-----|-------|-------------|----|-------|-------|-------|-------|----|-----|-------|----|
| CMU CHANNEL NO. | 1 | 2 | 13 | 3 | 4 | 14 | 5 | 6 | 15 | 7 | 8 | 16 | | | | |
| PHASE | 1 | 2 | 2 PED | 3 | 4 | 4 PED | 5 | 6 | 6 PED | 7 | 8 | 8 PED | | | | |
| SIGNAL HEAD NO. | 11 | 82 | 21,22 | NU | 22 | 31 | 41,42 43 | NU | 43 | 51,52 | 61,62 | NU | 62 | 71 | 81,82 | NU |
| RED | | | 128 | | | | 101 | | | 134 | | | | | 107 | |
| YELLOW | | | 129 | | | | 102 | | | 135 | | | | | 108 | |
| GREEN | | | 130 | | | | 103 | | | 136 | | | | | 109 | |
| RED ARROW | 125 | | | | 116 | | | | 131 | | | | | | 122 | |
| YELLOW ARROW | 126 | 126 | | | 117 | 117 | | | 132 | 132 | | | | 123 | 123 | |
| GREEN ARROW | 127 | 127 | | | 118 | 118 | | | 133 | 133 | | | | 124 | 124 | |

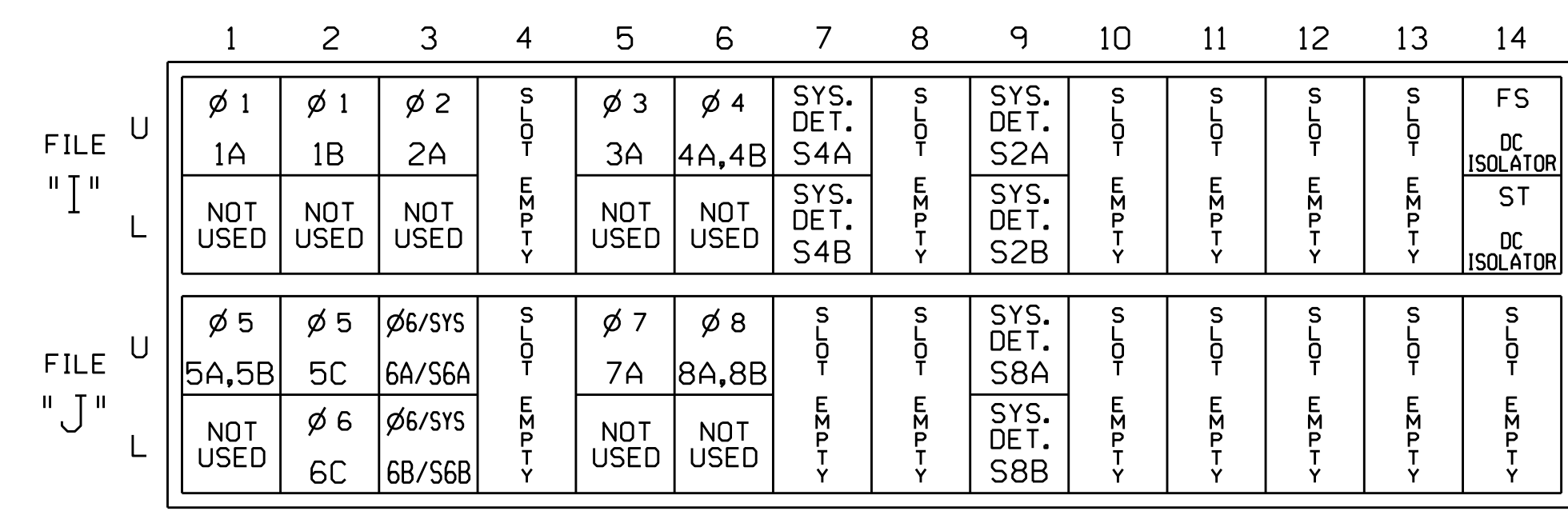
NU = Not Used

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,S10,S11
 PHASES USED.....1,2,3,4,5,6,7,8
 OVERLAPS.....NONE

INPUT FILE POSITION LAYOUT

(front view)



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

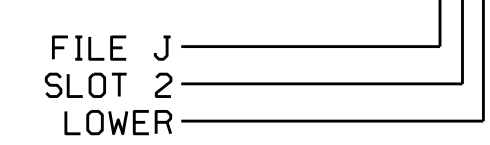
FS = FLASH SENSE
ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND TIME | DELAY TIME | DETECTOR TYPE |
|----------|---------------|-----------------|---------|--------------|------------|------|-------------|------------|---------------|
| 1A | TB2-1,2 | I1U | 56 | 1 | 1 | YES | | | S |
| 1B | TB2-5,6 | I2U | 39 | 2 | 1 | YES | | 15 | S |
| 2A | TB2-9,10 | I3U | 63 | 32 | 2 | YES | | | S |
| 3A | TB4-5,6 | I5U | 58 | 3 | 3 | YES | | 3 | S |
| 4A,4B | TB4-9,10 | I6U | 41 | 4 | 4 | YES | | | S |
| *S4A | TB6-1,2 | I7U | 65 | 34 | SYS | NO | | | N |
| *S4B | TB6-3,4 | I7L | 78 | 44 | SYS | NO | | | N |
| *S2A | TB6-9,10 | I9U | 60 | 11 | SYS | NO | | | N |
| *S2B | TB6-11,12 | I9L | 62 | 13 | SYS | NO | | | N |
| 5A,5B | TB3-1,2 | J1U | 55 | 5 | 5 | YES | | 3 | S |
| 5C | TB3-5,6 | J2U | 40 | 6 | 5 | YES | | 15 | S |
| 6C | TB3-7,8 | J2L | 44 | 16 | 6 | YES | | | S |
| 6A/S6A | TB3-9,10 | J3U | 64 | 36 | 6/SYS | YES | 1.6 | | N |
| 6B/S6B | TB3-11,12 | J3L | 77 | 46 | 6/SYS | YES | 1.6 | | N |
| 7A | TB5-5,6 | J5U | 57 | 7 | 7 | YES | | 3 | S |
| 8A,8B | TB5-9,10 | J6U | 42 | 8 | 8 | YES | | | S |
| *S8A | TB7-9,10 | J9U | 59 | 15 | SYS | NO | | | N |
| *S8B | TB7-11,12 | J9L | 61 | 17 | SYS | NO | | | N |

* System detector only. Remove any assigned vehicle phase.

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0233
 DESIGNED: February 2016
 SEALED: 10-17-16
 REVISED: N/A

Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

Prepared In the Offices of:

TRANSPORTATION MOBILITY AND SAFETY DIVISION
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 Signal Management Section

750 N. Greenfield Pkwy, Garner, NC 27529

SR 1404 (Morganton Road) at McPherson Church Road

Division 6 Cumberland County Fayetteville

PLAN DATE: October 2016 REVIEWED BY: BAS

PREPARED BY: James Peterson REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: Keith M. Mims 10/19/2016

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER KEITH M. MIMS 036880

SIG. INVENTORY NO. 06-0233

18-OCT-2016 11:38
 S:\11551\15-Signal\work\hgr\oups\51g_Mark\Peter_son\060233_smc.ele_xxx.dgn
 J.peterson