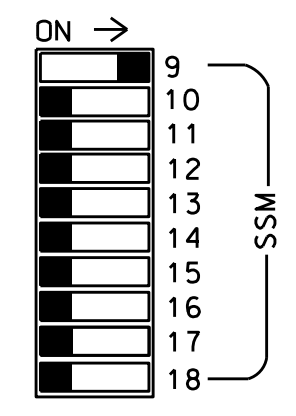
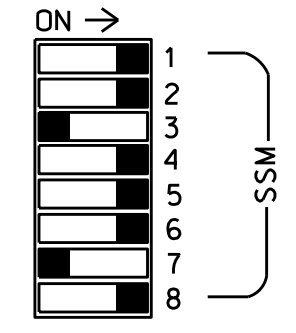
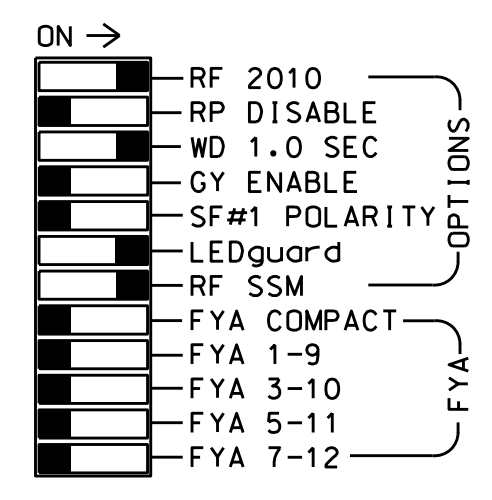
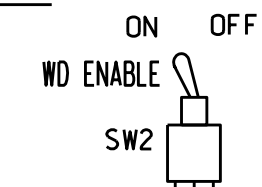
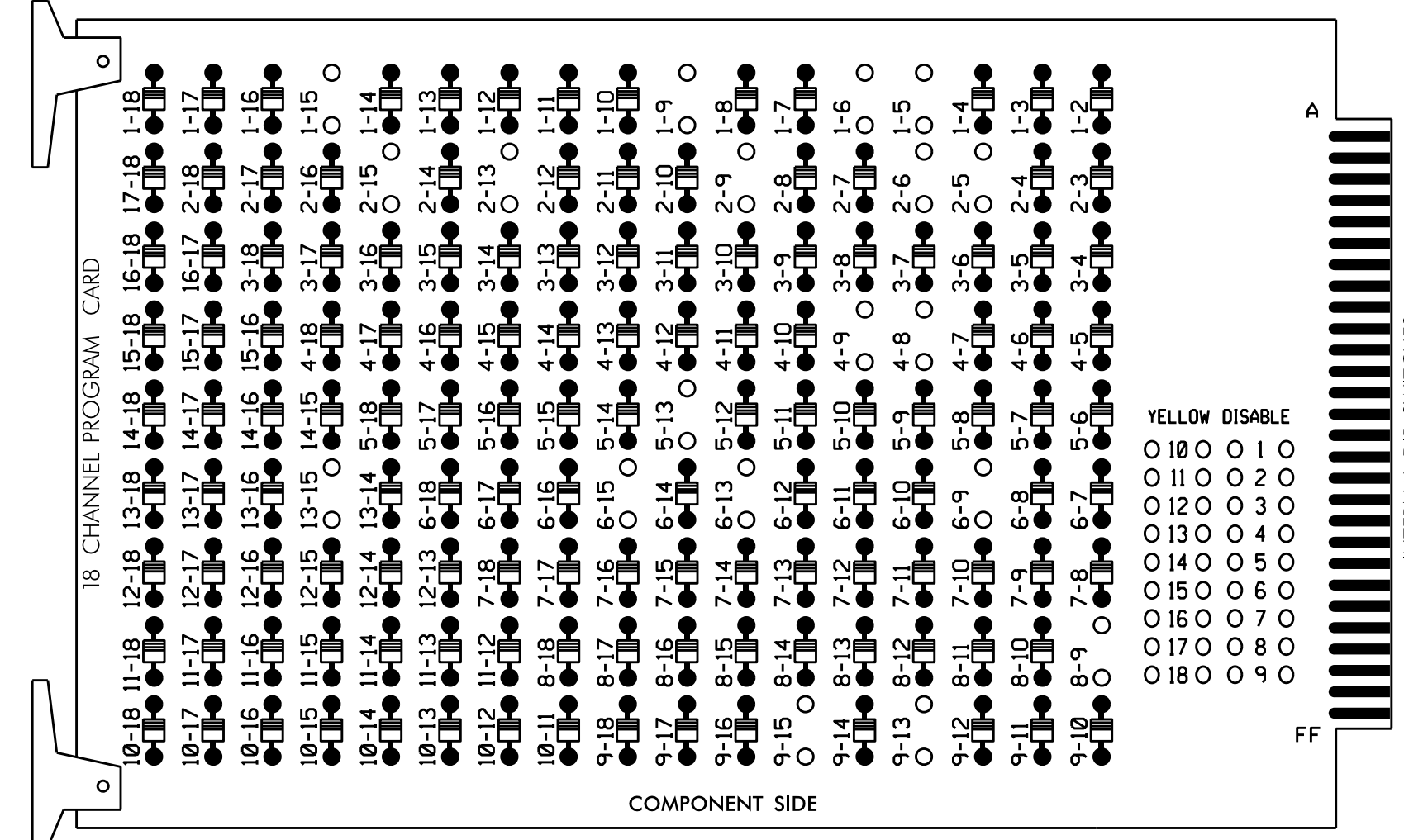


EDI MODEL 2018EClip-NC CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-15, 2-5, 2-6, 2-9, 2-13, 2-15, 4-8, 4-9, 5-13, 6-9, 6-13, 6-15, 8-9, 9-13, 9-15, and 13-15.



■ = DENOTES POSITION OF SWITCH

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.
- Integrate monitor with Ethernet network in cabinet.

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 | 13,14 | 21,22 | P21,P22 P23,P24 P25,P26 | NU | 41,42 | 43 | NU | 51,52 | 53,54 | 61,62 | P61,P62 P63,P64 P65,P66 | NU | 81,82 | 83 | NU | 63,64 | NU | NU | NU | NU |
| RED | 125 | 128 | | | | 101 | | | 131 | 134 | | | 107 | | A121 | | | | | | |
| YELLOW | | 129 | | | | 102 | | | 135 | | | | 108 | | A122 | | | | | | |
| GREEN | | 130 | | | | 103 | | | 136 | | | | 109 | | A123 | | | | | | |
| RED ARROW | 125 | | | | | 101 | | | 131 | | | | 107 | | | | | | | | |
| YELLOW ARROW | 126 | 126 | | | | 102 | | | 132 | 132 | | | 108 | | | | | | | | |
| GREEN ARROW | 127 | 127 | | | | 103 | | | 133 | 133 | | | 109 | | | | | | | | |
| Hand | | | | | | 113 | | | | | | | 119 | | | | | | | | |
| Walking | | | | | | 115 | | | | | | | 121 | | | | | | | | |

NU = Not Used

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET.....332 W/ AUX
 SOFTWARE.....NAZTEC APOGEE
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. FILE
 LOAD SWITCHES USED.....S1,S2,S3,S5,S7,S8,S9,
 S11,AUX S1
 PHASES USED.....1,2,2PED,4,5,6,6PED,8
 OVERLAP A.....6+8
 OVERLAP B.....NOT USED
 OVERLAP C.....NOT USED
 OVERLAP D.....NOT USED

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

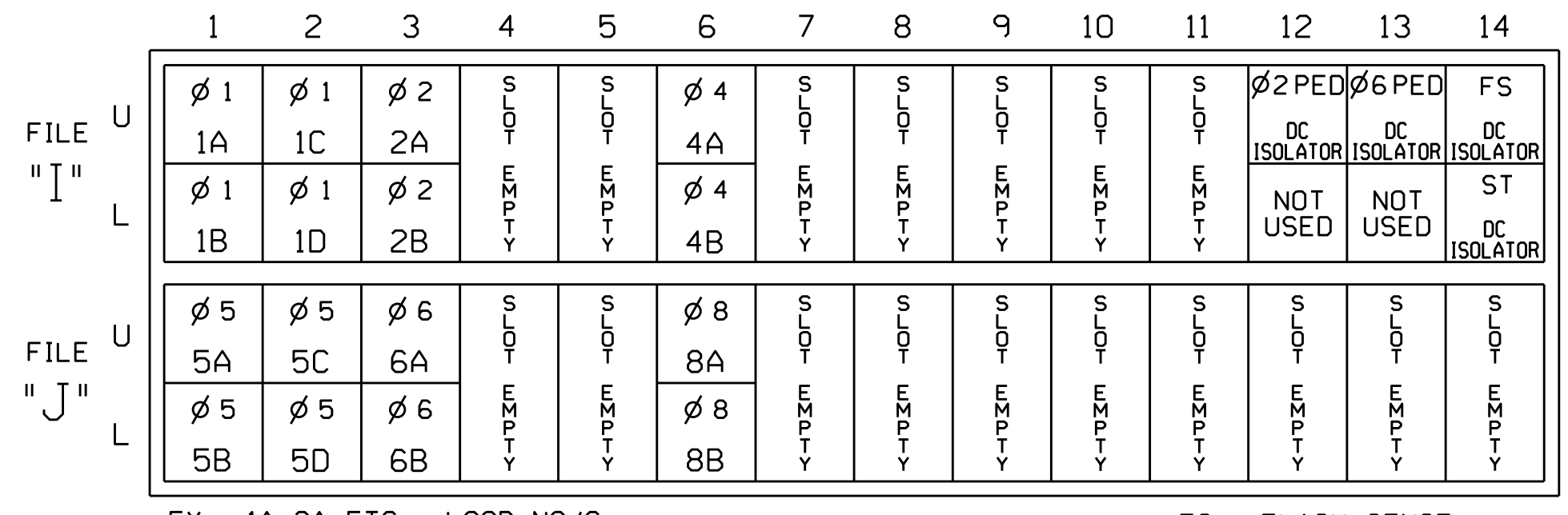
Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

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.
- Initialize database in Naztec 2070 local software (Apogee) as FULL-MODE 5. This initialization should be done prior to programming controller.
- Program phases 2 and 6 for Start Up In Walk.
- Program "Start Up Flash" for 0 sec. The conflict monitor will govern start-up flash time.
- Ensure "Local Flash Start" feature is set to "ON".
- Program phases 4 and 8 for Dual Entry.
- The cabinet and controller are part of the City of Greensboro Signal System.

INPUT FILE POSITION LAYOUT

(front view)

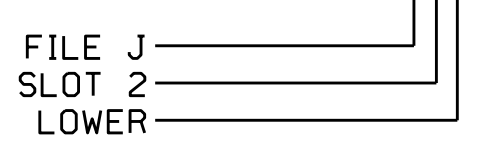


INPUT FILE CONNECTION & PROGRAMMING CHART

| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | DETECTOR NO. | CALL PHASE | SWITCH | DELAY TIME | EXTEND TIME | CALL | EXTEND | ADDED INIT. |
|----------------------------|---------------|-----------------|---------|--------------|------------|--------|------------|-------------|------|--------|-------------|
| 1A | TB2-1,2 | I1U | 56 | 1 | 1 | | | | X | X | |
| 1B | TB2-3,4 | I1L | 56 | 1 | 1 | | | | X | X | |
| 1C | TB2-5,6 | I2U | 39 | 2 | 1 | | 15 | | X | X | |
| 1D | TB2-7,8 | I2L | 43 | 3 | 1 | | 15 | | X | X | |
| 2A | TB2-9,10 | I3U | 63 | 4 | 2 | | | | X | X | X |
| 2B | TB2-11,12 | I3L | 76 | 5 | 2 | | | | X | X | X |
| 4A | TB4-9,10 | I6U | 41 | 8 | 4 | | | | X | X | |
| 4B | TB4-11,12 | I6L | 45 | 9 | 4 | | | | X | X | |
| 5A | TB3-1,2 | J1U | 55 | 15 | 5 | | | | X | X | |
| 5B | TB3-3,4 | J1L | 55 | 15 | 5 | | | | X | X | |
| 5C | TB3-5,6 | J2U | 40 | 16 | 5 | | 15 | | X | X | |
| 5D | TB3-7,8 | J2L | 44 | 17 | 5 | | 15 | | X | X | |
| 6A | TB3-9,10 | J3U | 64 | 18 | 6 | | | | X | X | X |
| 6B | TB3-11,12 | J3L | 77 | 19 | 6 | | | | X | X | X |
| 8A | TB5-9,10 | J6U | 42 | 22 | 8 | | | | X | X | |
| 8B | TB5-11,12 | J6L | 46 | 23 | 8 | | | | X | X | |
| PED PUSH BUTTONS | | | | | | | | | | | |
| P21,P22,P23 P24,P25,P26 | TB8-4,6 | I12U | 67 | PED 2 | 2 PED | | | | | | |
| P61,P62,P63 P64,P65,P66 | TB8-7,9 | I13U | 68 | PED 6 | 6 PED | | | | | | |

NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS I12 AND I13.

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-2176
 DESIGNED: March 2016
 SEALED: 4/19/2016
 REVISED: N/A

Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Offices of:
 Traffic Engineering and Safety Systems, Inc.
 PROFESSIONAL ENGINEERS
 STATE OF NORTH CAROLINA
 750 N. Greenfield Pkwy, Garner, NC 27529

US 220 (Battleground Ave) at I-840 Ramps

Division 7 Guilford County Greensboro

PLAN DATE: April 2016 REVIEWED BY: BAS

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS INIT. DATE

Seal: KEITH M. MIAS ENGINEER 036880

DocuSigned by: Keith M. Mias 4/25/2016

SIG. INVENTORY NO. 07-2176

21-Apr-2016 13:42
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