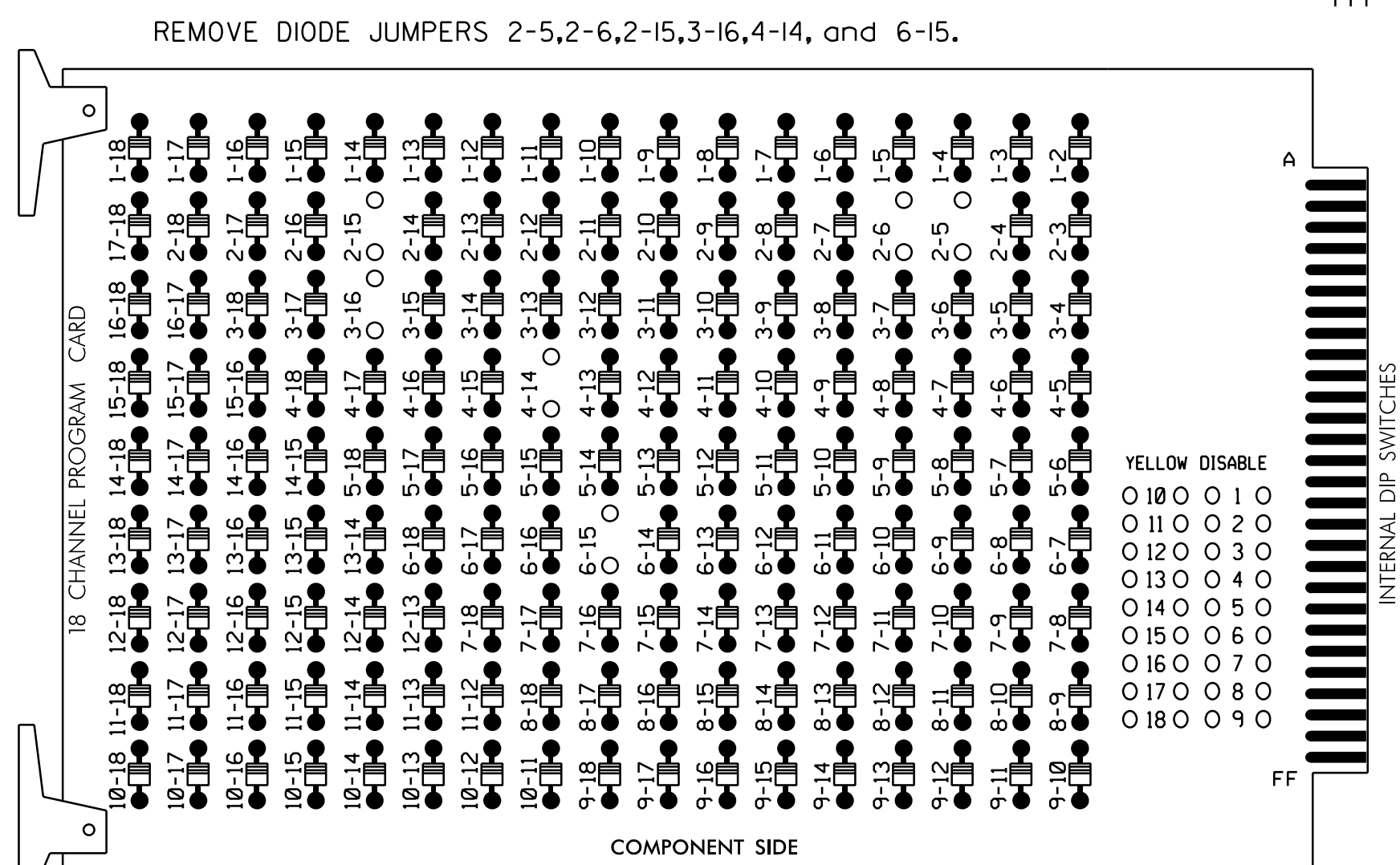


**EDI MODEL 2018EClip-NC CONFLICT MONITOR
PROGRAMMING DETAIL**

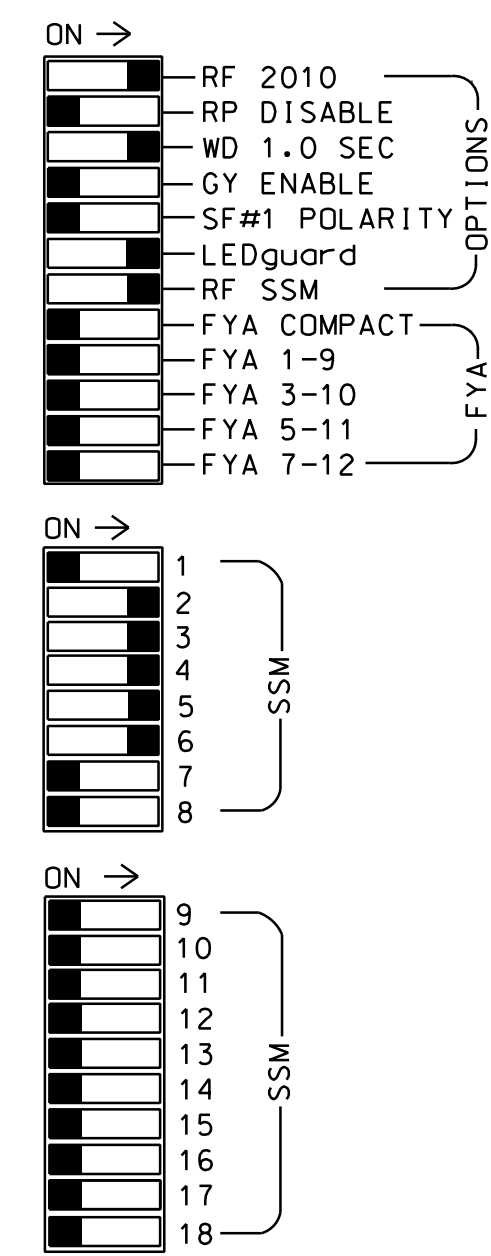
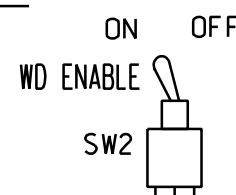
(remove jumpers and set switches as shown)



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.



■ = 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, on the controller unit, for Start Up In Green. SPECIAL PROGRAMMING IS NEEDED FOR PROPER START-UP OF PED SIGNALS. SEE SHEET 2 OF 2 OF THIS ELECTRICAL DETAIL FOR INSTRUCTIONS.
- Program phases 3, 4 and 6 for 'STARTUP PED CALL'.
- 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
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S3,S4,S4P,S5,S6,S6PED,S8P*
 PHASES USED.....2,3,3PED,4,4PED,5,6,6PED
 OVERLAPS.....NONE
 * LOAD SWITCH S8P SWITCHED TO SERVE PHASE 3PED.

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	3 PED					
SIGNAL HEAD NO.	NU	21	22	NU	31	32	62	41	42	P41, P42	21	32	61,62	P61, P62	NU	NU	P31, P32
RED		128	128		116	116		101	101		**		134				
YELLOW		129	129		117	117		102	102				135				
GREEN		130	130		118	118		103	103				136				
RED ARROW																	
YELLOW ARROW						117						132	132				
GREEN ARROW						118	118	103				133	133				
Hand icon												104			119		110
Person icon												106			121		112

NU = Not Used
 * Reprogram phase assignment of load switch S12 from default of '8PED' to '3PED'. See "PED 3 Programming Detail" this sheet.
 ** Denotes install load resistor. See load resistor installation 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
U	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3
L	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3	∅3
U	∅5	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6
L	∅5	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6	∅6

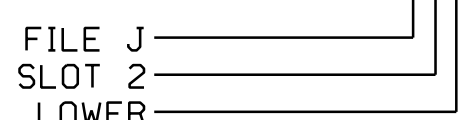
EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME
 * Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
2A ¹	TB3-1,2	J1U	47	9	22	2	Y	Y			5
3A	TB4-5,6	J1U	55	17	2	5	Y	Y			3
4A	TB4-9,10	J1U	41	3	4	4	Y	Y			10
5A	TB6-1,2	J2U	65	27	34	5	Y	Y			15
6A	TB3-5,6	J2U	40	2	6	6	Y	Y			
PED PUSH BUTTONS											
P31,P32	TB8-4,6	J12U	67	29	PED 3	3					
P41,P42	TB8-5,6	J12L	69	31	PED 4	4					
P61,P62	TB8-7,9	J13U	68	30	PED 6	6					

¹Add jumper from J1W to J14W, on rear of input file.

INPUT FILE POSITION LEGEND: J2L



VIBRO-TACTILE PEDESTRIAN PUSHBUTTON

Pedestrian pushbuttons shall utilize vibro-tactile buttons to provide positive feedback to user that button is activated. Follow manufacturer's installation instructions to install accordingly.

PED 3 PROGRAMMING DETAIL

(program controller as shown below)

CHANGING OUTPUT ASSIGNMENTS

- FROM MAIN MENU SELECT '6' (OUTPUTS), THEN '1' (OUTPUT ASSIGNMENTS)
- ENTER 17 (PHASE 8 DW) FOR OUTPUT ASSIGNMENT #.
- SCROLL DOWN TO 'PEDESTRIAN PHASE' AND ENTER 'Y' REGARDLESS OF DEFAULT PROGRAMMING
- ENTER '3' FOR 'SELECT PEDESTRIAN PHASE'. NO CHANGE NEEDED FOR 'SELECT COLOR'
- BACKUP TO 'OUTPUT ASSIGNMENTS AND SETTINGS MENU:' BY PRESSING THE 'ESC' BUTTON ON KEYBOARD.
- SELECT '1' (OUTPUT ASSIGNMENTS)
- ENTER 18 (PHASE 8 W) FOR OUTPUT ASSIGNMENT #.
- REPEAT STEPS # 3 AND # 4.

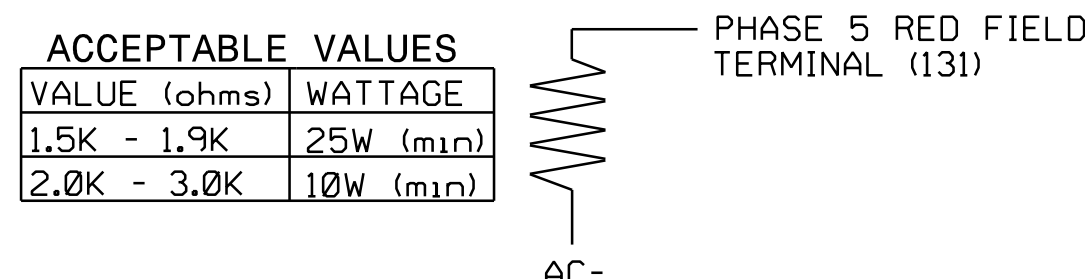
CHANGING INPUT ASSIGNMENTS

- FROM MAIN MENU SELECT '7' (DETECTORS), THEN '2' (PEDESTRIAN DETECTOR ASSIGNMENTS)
- CYCLE TO PED DETECTOR #8 BY REPEATEDLY DEPRESSING '4' KEY
- MODIFY PHASE ASSIGNED TO PED DETECTOR # 8 FROM PHASE 8 TO PHASE 3

PROGRAMMING COMPLETE

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)



EXISTING POLARA ACCESSIBLE PEDESTRIAN SIGNAL (APS) INSTALLATION NOTES

- Provide a dedicated pair of wires from the cabinet to each push button station.
- Mount Fail-safe Interconnect Terminal Board on right rear side of cabinet (above service panel).
- Wire push buttons and Central Control Unit (CCU) per Polara Installation Manual instructions.
- Use Controller Receptacle to power CCU. DO NOT use equipment receptacle which is a GFCI outlet.
- Never attempt to operate a standard contact closure push button with the Polara System unless cabinet is re-wired for standard operation.

ADVANCED WALK PROGRAMMING NOTE

(program controller as shown below)

From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phases 3, 4, and 6 for 'Advanced Walk'. Make sure the Walk Advance times shown on the Signal Design Plans are programmed in the 'Phase Timing' menu.

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.

Mattern & Craig
 CONSULTING ENGINEERS • SURVEYORS
 FIRM LICENSE No. C-1154
 12 BROAD STREET
 ASHEVILLE, NORTH CAROLINA 28801
 (828) 254-2201
 FAX (828) 254-4562

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: COA-403
 DESIGNED: JUNE 2016
 SEALED: 12-13-2016
 REVISED:

ELECTRICAL DETAIL SHEET 1 OF 2

Haywood St at Montford Ave

Division 13 Buncombe County Asheville

PLAN DATE: JUNE 2016 REVIEWED BY: SMH
 PREPARED BY: BGR REVIEWED BY: JBV

REVISIONS: INIT. DATE

161 S. Charlotte St, Asheville NC 28802

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER JAMES B. VOSS SEAL 022599

SIGNATURE DATE 12/13/2016

SIG. INVENTORY NO. COA-403