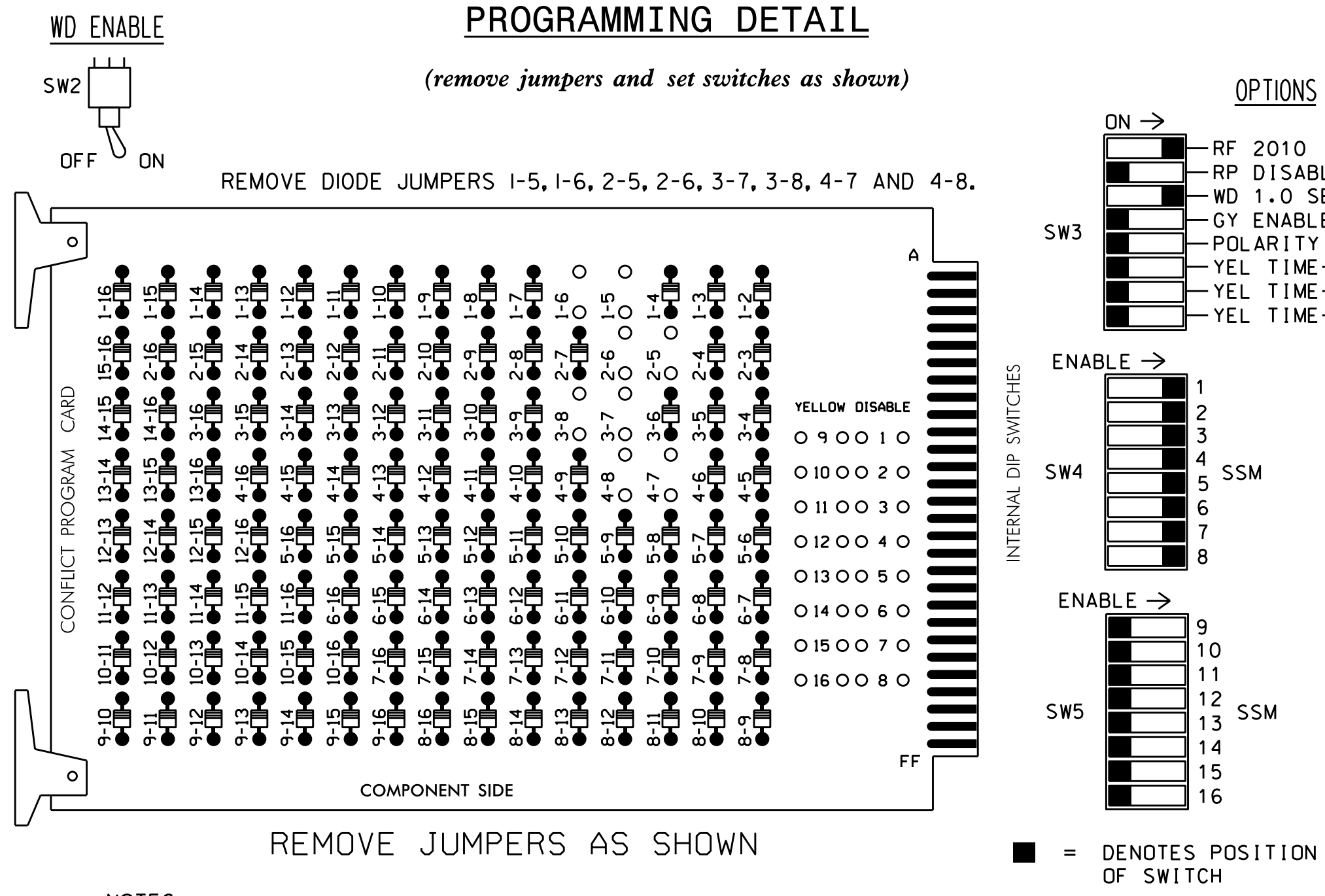


EDI MODEL 2010ECL-HCK CONFLICT MONITOR



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.
- Ensure that Red Enable is active at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 9,10, 11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- 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 US 701 Bus. (Clinton) Closed Loop System.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
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.	61	21,22	NU	81	41,42	NU	21	61,62	NU	41	81,82	NU	NU	NU	NU	NU	NU	NU
RED	*	128		*	101		*	134		*	107							
YELLOW		129			102			135			108							
GREEN		130			103			136			109							
RED ARROW																		
YELLOW ARROW	126				117			132			123							
GREEN ARROW	127				118			133			124							

NU = Not Used
* Denotes install load resistor. See load resistor installation detail this sheet.

EQUIPMENT INFORMATION

CONTROLLER.....2070
CABINET.....332 W/ AUX
SOFTWARE.....ECONOLITE OASIS
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8
PHASES USED.....1,2,3,4,5,6,7,8
OVERLAPS.....NONE

DYNAMIC BACK-UP CONTROL PROGRAMMING

- (program controller as shown below)
- From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Scroll to the bottom of the menu and enable Dynamic/Backup Control Functions 1 and 2.
 - From Phase Control Functions Menu press '2' (Dynamic/Backup Control Functions).

DYNAMIC/BACKUP CONTROL FUNCTION #01
OVERLAPS: ABCDEFGHIJKLMNP
IF OVERLAPS ARE ACTIVE :
OR PHASES: 12345678910111213141516
IF PHASES ARE ON: X
OMIT PHASES : X
CALL PHASES :

PRESS 'NEXT'

DYNAMIC/BACKUP CONTROL FUNCTION #02
OVERLAPS: ABCDEFGHIJKLMNP
IF OVERLAPS ARE ACTIVE :
OR PHASES: 12345678910111213141516
IF PHASES ARE ON: X
OMIT PHASES : X
CALL PHASES :

BACKUP PROTECTION PROGRAMMING COMPLETE

BACKUP PROTECTION NOTE

(program controller as shown below)

From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phases 2 & 6 for 'Backup Protect'. Make sure the Red Revert times shown on the Signal Design Plans are programmed in the 'Phase Timing' menu.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0146
DESIGNED: March 2017
SEALED: 5/2/2017
REVISED:

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	S	∅ 2	∅ 5	S	S	∅ 4	NOT USED	∅ 4	SYS. DET. SD5	S	S	S	S	FS
L	∅ 2A,2B	5A	S	S	∅ 4	NOT USED	∅ 7	NOT USED	SYS. DET. SD6	S	S	S	S	DC ISOLATOR
L	NOT USED	∅ 2	S	S	∅ 3	∅ 8	S	SYS. DET. SD7	S	S	S	S	S	ST
L	∅ 6	6A,6B	S	S	∅ 3	∅ 8	S	SYS. DET. SD8	S	S	S	S	S	DC ISOLATOR
L	1A	NOT USED	S	S	∅ 3	NOT USED	S	SYS. DET. SD8	S	S	S	S	S	
L	1A	NOT USED	S	S	∅ 3	NOT USED	S	SYS. DET. SD8	S	S	S	S	S	

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

FS = FLASH SENSE
ST = STOP TIME

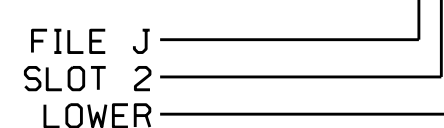
INPUT FILE CONNECTION & PROGRAMMING CHART

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 ¹	TB3-5,6	J2U	40	2	6	1	Y	Y			15
	TB3-7,8	J2L	44	6	16	6	Y	Y			
2A,2B	TB2-5,6	J2U	39	1	2	2	Y	Y			
3A ²	TB5-9,10	J6U	42	4	8	3	Y	Y			15
	TB5-11,12	J6L	46	8	18	8	Y	Y			3
4A	TB4-9,10	J6U	41	3	4	4	Y	Y			10
5A ³	TB2-9,10	J3U	63	25	32	5	Y	Y			15
	TB2-11,12	J3L	76	38	42	2	Y	Y			
6A,6B	TB3-9,10	J3U	64	26	36	6	Y	Y			
7A ⁴	TB6-3,4	J7L	78	40	44	7	Y	Y			15
	TB6-5,6	J8U	49	11	24	4	Y	Y			3
8A	TB7-1,2	J7U	66	28	38	8	Y	Y			10
*SD5	TB6-9,10	J9U	60	22	11	SYS					
*SD6	TB6-11,12	J9L	62	24	13	SYS					
*SD7	TB7-9,10	J9U	59	21	15	SYS					
*SD8	TB7-11,12	J9L	61	23	17	SYS					

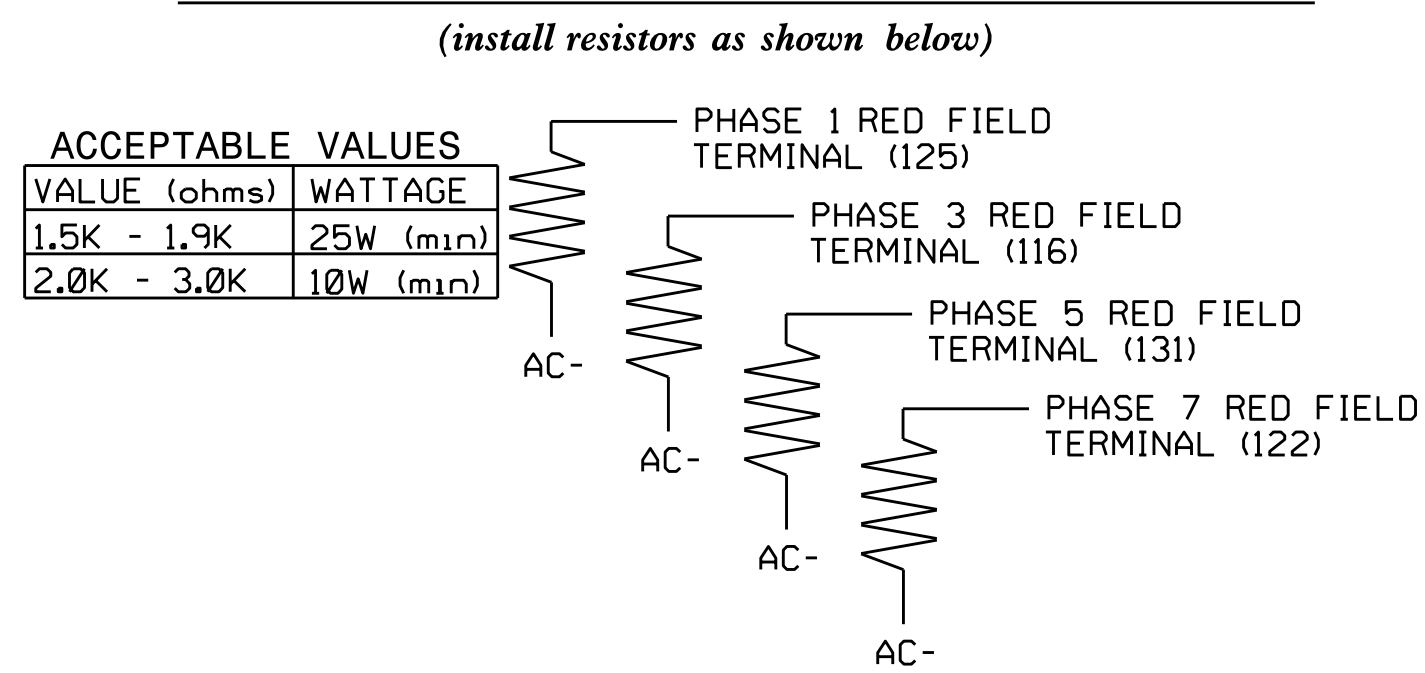
- Add jumpers from TB3-5 to TB3-7, and from TB3-6 to TB3-8.
- Add jumpers from TB5-9 to TB5-11, and from TB5-10 to TB5-12.
- Add jumpers from TB2-9 to TB2-11, and from TB2-10 to TB2-12.
- Add jumpers from TB6-3 to TB6-5, and from TB6-4 to TB6-6.

* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL



NOTE: The purpose of these resistors is to load the channel red monitor inputs in order for the Signal Sequence Monitor to use the full signal sequence monitoring capability on channels that do not use the red display in the field.

Electrical Detail

Electrical and Programming Details for: US 701 Business (Northeast Blvd./ Southeast Blvd.) at NC 403 (Faison Hwy.)/ SR 1856 (College St.)

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

Division 3 Sampson County Clinton

PLAN DATE: May 2017 REVIEWED BY: T. Joyce

PREPARED BY: C. Strickland REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: 5/4/2017

SIG. INVENTORY NO. 03-0146

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 030530 JACOBARY M. LITTLE