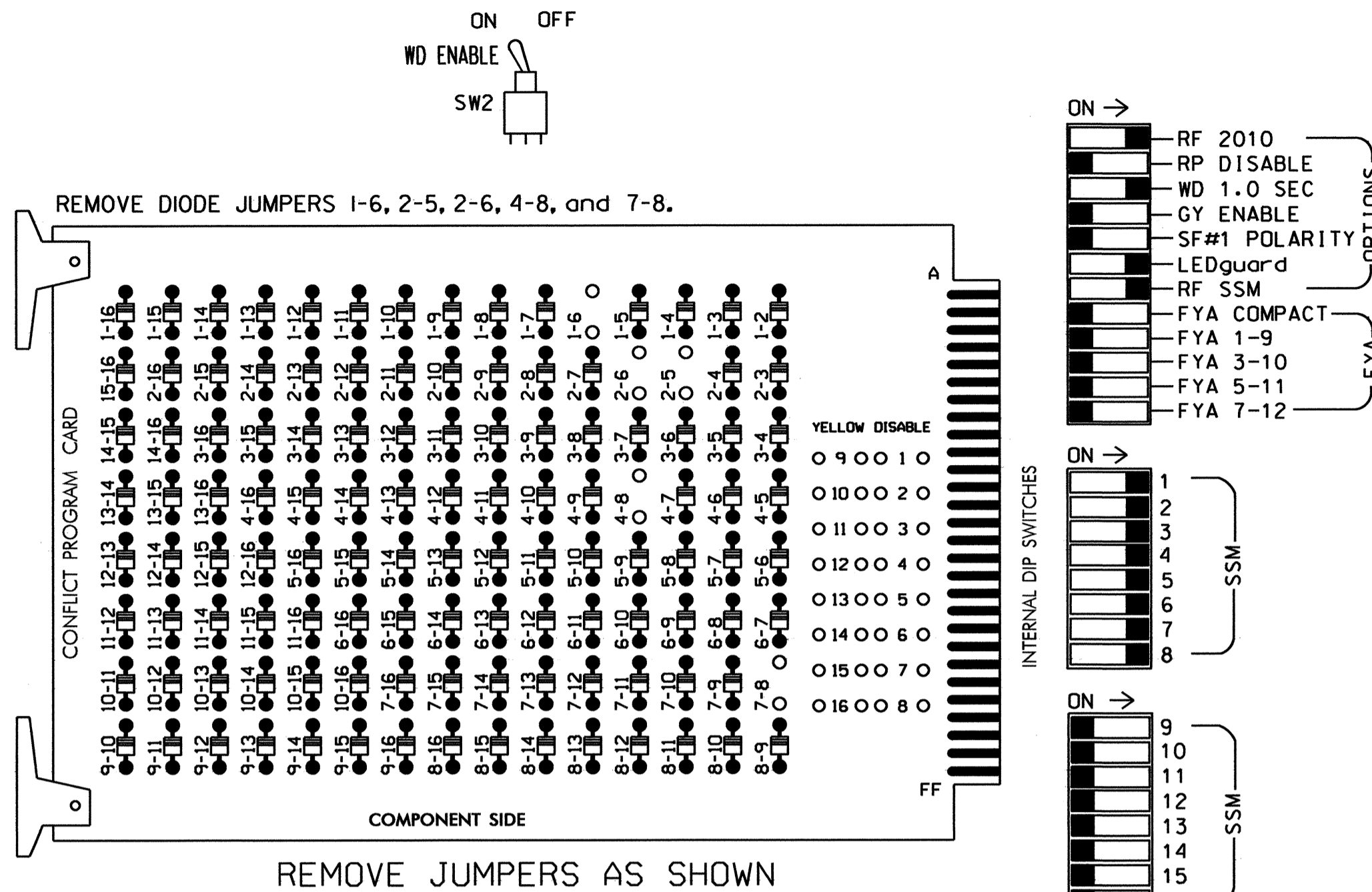


EDI MODEL 2010ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



- REMOVE DIODE JUMPERS 1-6, 2-5, 2-6, 4-8, and 7-8.
- REMOVE JUMPERS AS SHOWN
- NOTES:
- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
 - Make sure jumpers SEL2-SEL5 are present on the monitor board.

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 2 and 6, on the controller unit, for Start Up In Green.
- Program phases 2 and 6, on the controller unit, for Yellow Flash.
- Enable Simultaneous Gap-Out, on the controller unit, for all phases.
- The cabinet and controller are part of the Goldsboro City System.

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L
 CABINET.....CONTRACTOR SUPPLIED 332
 SOFTWARE.....ECONOLITE OASIS 3.02.77
 OR LATEST APPROVED VERSION
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8
 PHASES USED.....1,2,3,4,5,6,*7
 OVERLAP E.....4+7
 OVERLAP P.....1+2+3+4+5+6
 *USED ONLY DURING PREEMPTION

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	OLE	8 PED
SIGNAL HEAD NO.	11	21,22	NU	31, 32,33	41, 42,43	NU	51	61,62	NU	31,41	62	NU
RED		128		116	101			134		*	*	
YELLOW		129		117	102			135				
GREEN		130		118	103			136				
RED ARROW	125							131				
YELLOW ARROW	126							132		123	108	
GREEN ARROW	127							133		124	109	

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

PREEMPT ONLY PHASE OMIT NOTE

(program controller as shown below)

From Main Menu press '2' (Phase Control). Then '1' (Phase Control Functions). Program Phase 7 for 'Omit Phase' and Phases 1, 2, 3, 4, 5 and 6 for 'Startup Calls'. This is to prevent Phase 7 from being served when not in Preempt.

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	φ 1 1A	φ 2 2A,2B	S	S	S	φ 4 4A	φ 3 3A	S	S	S	S	S	S	FS
L	NOT USED	NOT USED	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	DC ISOLATOR
U	φ 5 5A	φ 6 6A,6B	S	S	S	S	S	S	S	S	S	S	S	PRE1
L	NOT USED	NOT USED	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	AC ISOLATOR

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

FS = FLASH SENSE
 ST = STOP TIME
 PRE1 = RR PREEMPT

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	I1U	56	18	1	1	Y	Y			3
2A,2B	TB2-5,6	I2U	39	1	2	2	Y	Y			
3A	TB6-1,2	I7U	65	27	34	3	Y	Y			3
3B	TB6-3,4	I7L	78	40	44	3	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			3
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			3
6A,6B	TB3-5,6	J2U	40	2	6	6	Y	Y			

INPUT FILE POSITION LEGEND: J2L

FILE J
 SLOT 2
 LOWER

OVERLAP 'P' PROGRAMMING DETAIL

(program controller as shown below)

From Main Menu press '8' (Overlaps), then '1' (Vehicle Overlap Settings).

PRESS '+' FOUR TIMES

```

PAGE 1: VEHICLE OVERLAP 'E' 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 (0-25.5 SEC)...0
YELLOW CLEAR (0=PARENT,3-25.5 SEC)...0.0
RED CLEAR (0=PARENT,0.1-25.5 SEC)...0.0
OUTPUT AS PHASE # (0=NONE, 1-16)...8
    
```

PRESS '-' FIVE TIMES

```

PAGE 1: VEHICLE OVERLAP 'P' SETTINGS
PHASE:      :12345678910111213141516
VEH OVL PARENTS:  xxxxxx
VEH OVL NOT VEH:
VEH OVL NOT PED:
VEH OVL GRN EXT:
STARTUP COLOR:  - RED - YELLOW - GREEN
FLASH COLORS:   - RED - YELLOW - GREEN

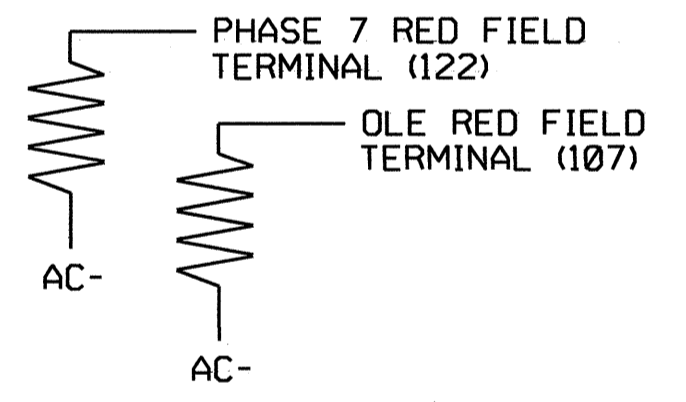
SELECT VEHICLE OVERLAP OPTIONS: (Y/N)
FLASH YELLOW IN CONTROLLER FLASH?...N
GREEN EXTENSION (0-25.5 SEC)...0
YELLOW CLEAR (0=PARENT,3-25.5 SEC)...0.0
RED CLEAR (0=PARENT,0.1-25.5 SEC)...0.0
OUTPUT AS PHASE # (0=NONE, 1-16)...0
    
```

OVERLAP PROGRAMMING COMPLETE

The utilization of overlap P ensures consistent clearance timing during transition to preemption

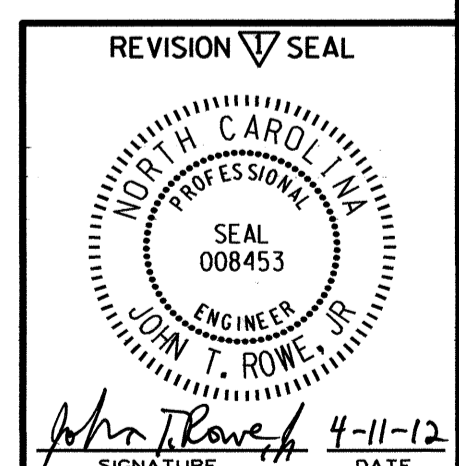
LOAD RESISTOR INSTALLATION DETAIL

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



NOTE: The purpose of this resistor is to load the channel red monitor input 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.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-0556
 DESIGNED: March 2012
 SEALED: 4/11/12
 REVISED: N/A



Signal Upgrade - Sheet 1 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 13 (Berkeley Blvd.) at SR 1560 (Royall Ave.) & SR 1709 (Central Hts. Rd.)

Division 4 Wayne County Goldsboro

PLAN DATE: January 2009 REVIEWED BY: T. JOYCE

PREPARED BY: C. Strickland REVIEWED BY:

REVISIONS: Added right turn overlap head 62 and created overlap E1 revised input file. (WSA)

INIT. DATE: JTK 4-11-12

SIG. INVENTORY NO. 04-0556

11-APR-2012 10:14 S:\JTAS\JTK\T5\S1\gnl\sm\fron\040556.sm\el_e_xxx.dgn