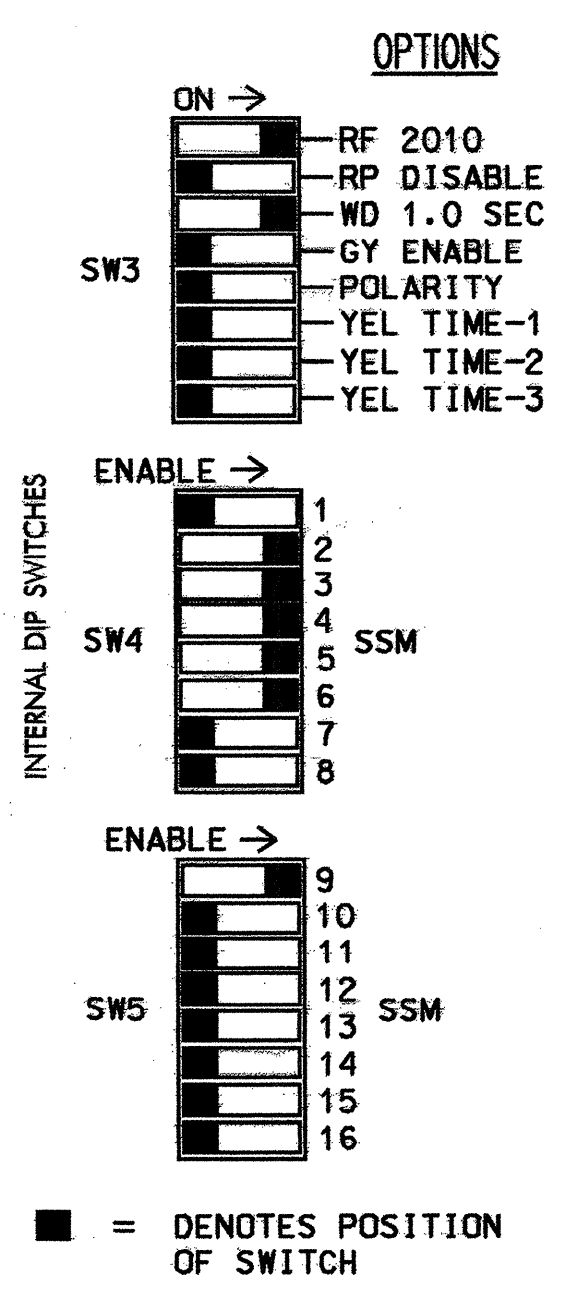
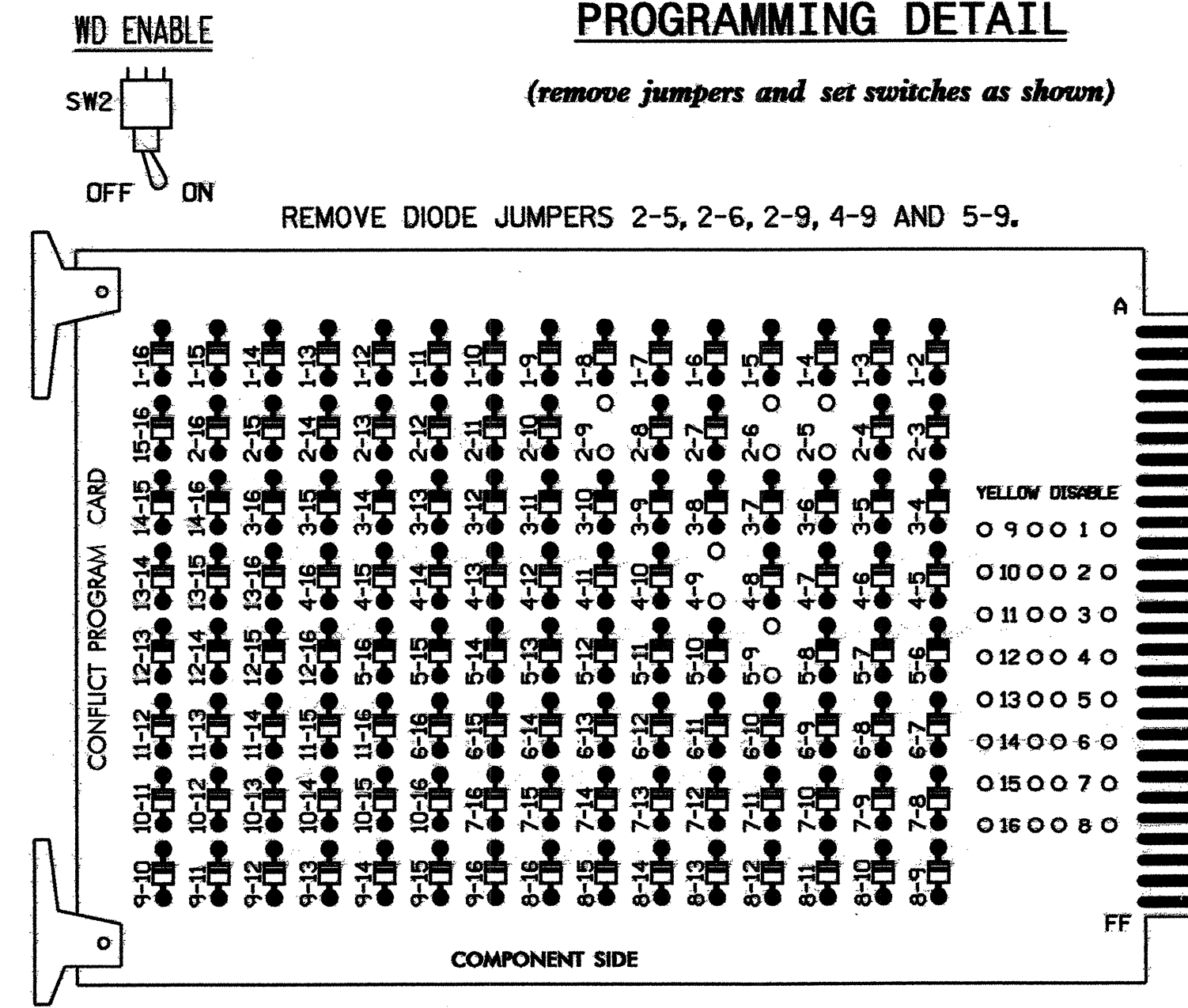


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL



NOTES:

- CARD IS PROVIDED WITH ALL DIODE JUMPERS IN PLACE. REMOVAL OF ANY JUMPER ALLOWS ITS CHANNELS TO RUN CONCURRENTLY.
- MAKE SURE JUMPERS SEL1-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 1,7, 8,10,11,12,13,14,15 & 16 TO LOAD SWITCH AC+ PER THE CABINET MANUFACTURER'S INSTRUCTIONS.
- PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
- ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- THE CABINET AND CONTROLLER ARE PART OF THE GASTONIA CITY SYSTEM

EQUIPMENT INFORMATION

CONTROLLER.....CONTRACTOR SUPPLIED 2070L CABINET.....CONTRACTOR SUPPLIED 332 SOFTWARE.....ECONOLITE OASIS CABINET MOUNT.....BASE OUTPUT FILE POSITIONS...18 (12-STD, 6-AUX) LOAD SWITCHES USED.....S2,S3,S4,S5,S6,S9 PHASES USED.....2,3,4,5,6 OVERLAP A:.....4+5

FIELD CONNECTION 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.	NU	21,22	NU	31	32	41	NU	21	61, 62, 63	NU	NU	NU	42,43	NU	NU	NU	NU	NU	
GREEN		130		118	118				136										
YELLOW		129		117	117				135										
RED		128		116	116			*	134										
RED ARROW						101												A121	
YELLOW ARROW						102			132										A122
GREEN ARROW				118		103			133										A123

NU = NOT USED
 * DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.
 1 WIRE OVERLAP A TO FLASH ON FLASHER #2, CIRCUIT #2

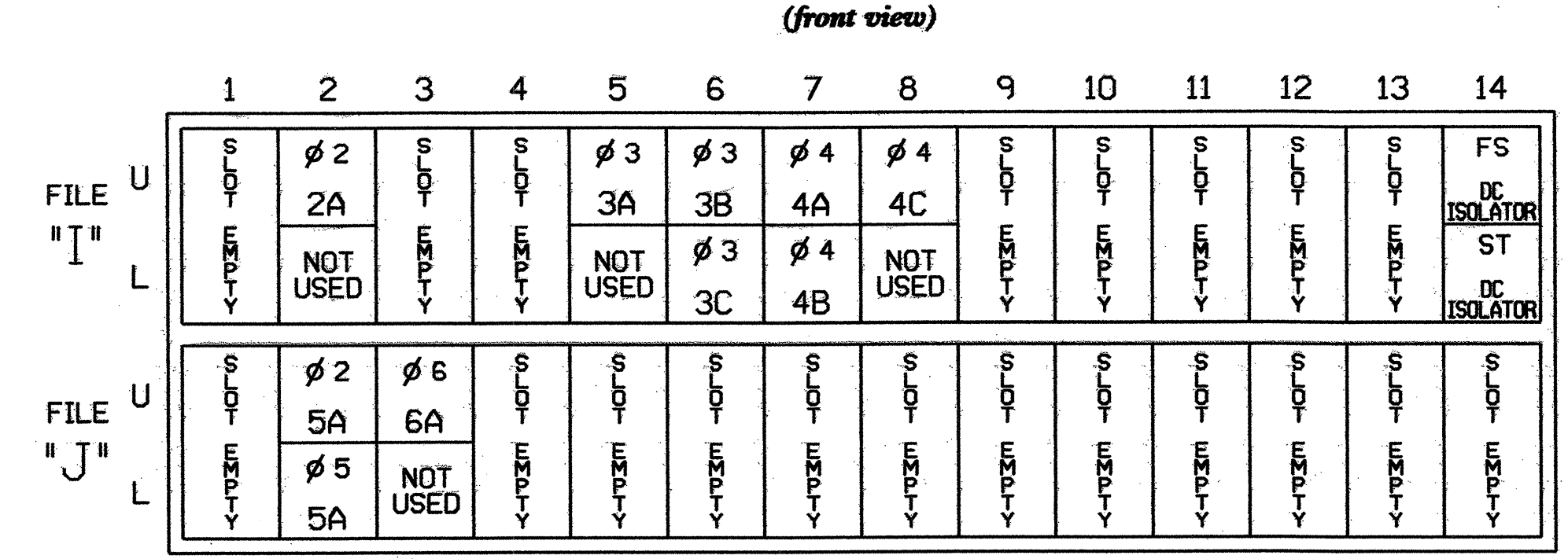
OVERLAP PROGRAMMING DETAIL

(program controller as shown below)
 FROM MAIN MENU PRESS '8' (OVERLAPS), THEN '1' (VEHICLE OVERLAP SETTINGS).

PAGE 1: VEHICLE OVERLAP 'A' SETTINGS
 PHASE: :12345678910111213141516
 VEH OVL PARENTS: : XX
 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 (0-255 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

INPUT FILE POSITION LAYOUT

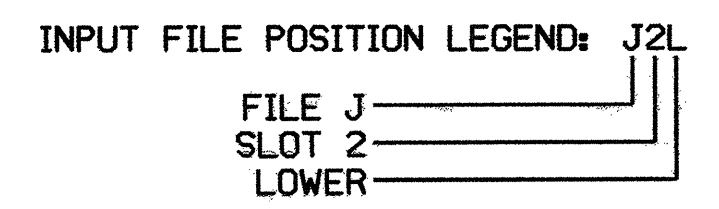


EX. : 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

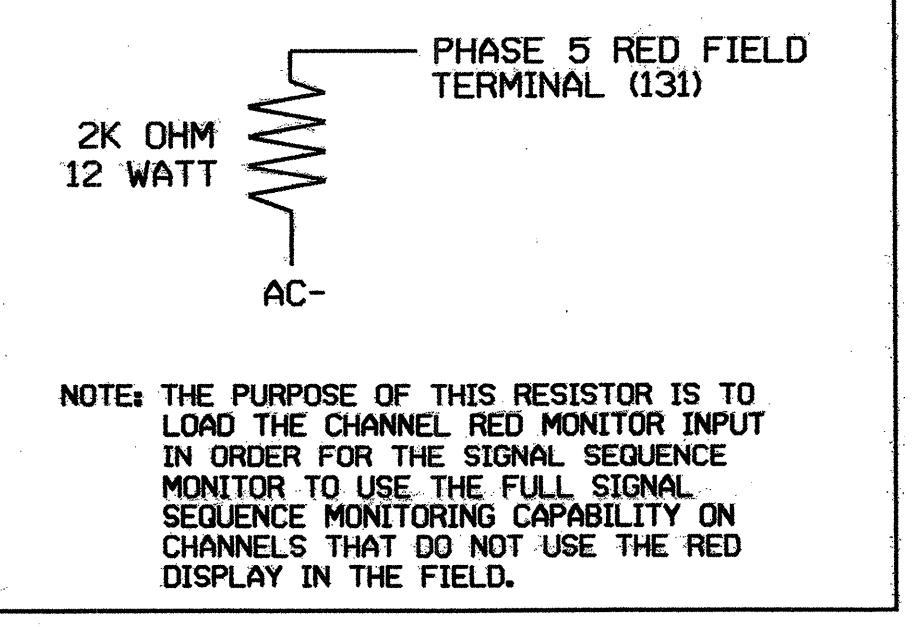
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			
3A	TB4-5,6	I5U	58	20	3	3	Y	Y			
3B	TB4-9,10	I6U	41	3	4	3	Y	Y			
3C	TB4-11,12	I6L	45	7	14	3	Y	Y			10
4A	TB6-1,2	I7U	65	27	34	4	Y	Y			
4B	TB6-3,4	I7L	78	40	44	4	Y	Y			5
4C	TB6-5,6	I8U	49	11	24	4	Y	Y			10
5A	TB3-5,6	J2U	40	2	6	2	Y	Y			
	TB3-7,8	J2L	44	6	16	5	Y	Y	Y		15
6A	TB3-9,10	J3U	64	26	36	6	Y	Y			

¹Add jumpers from TB3-5 to TB3-7, and from TB3-6 to TB3-8.



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0331
 DESIGNED: DECEMBER 2004
 SEALED: 1/13/05
 REVISED:

LOAD RESISTOR INSTALLATION DETAIL



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.

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 Function 1.
 - From Phase Control Functions Menu press '2' (Dynamic/Backup Control Functions).

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

BACKUP PROTECTION PROGRAMMING COMPLETE

SIGNAL UPGRADE

ELECTRICAL AND PROGRAMMING DETAILS FOR:
NC 7 (LONG AVENUE) AT MODENA STREET
 DIVISION 12 GASTON COUNTY GASTONIA
 PLAN DATE: JANUARY 2005 REVIEWED BY: T. Joyce
 PREPARED BY: WILLIAM HAIRSTON REVIEWED BY:
 REVISIONS INIT. DATE
 Prepared in the Office of:
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 022013
 GEORGE C. BROWN
 SIGNATURE DATE
 122 N. McDowell St., Raleigh, NC 27603
 SIG. INVENTORY NO. 12-0331

12-MAY-2005 14:16 c:\documents and settings\lkozdek\top\gastonia\0120331_20050128.dgn