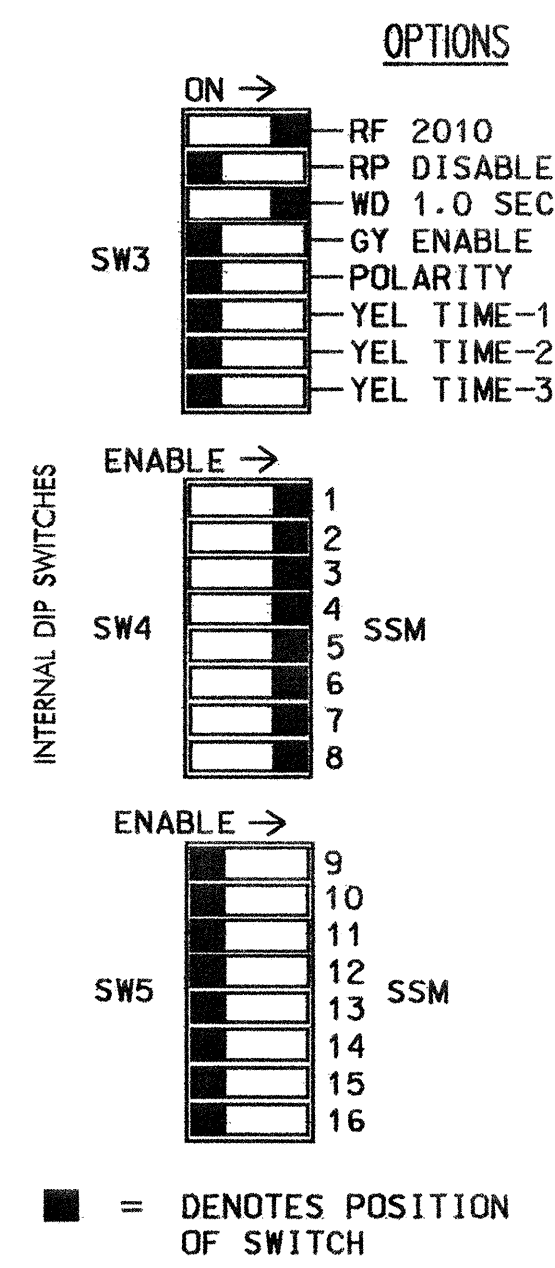
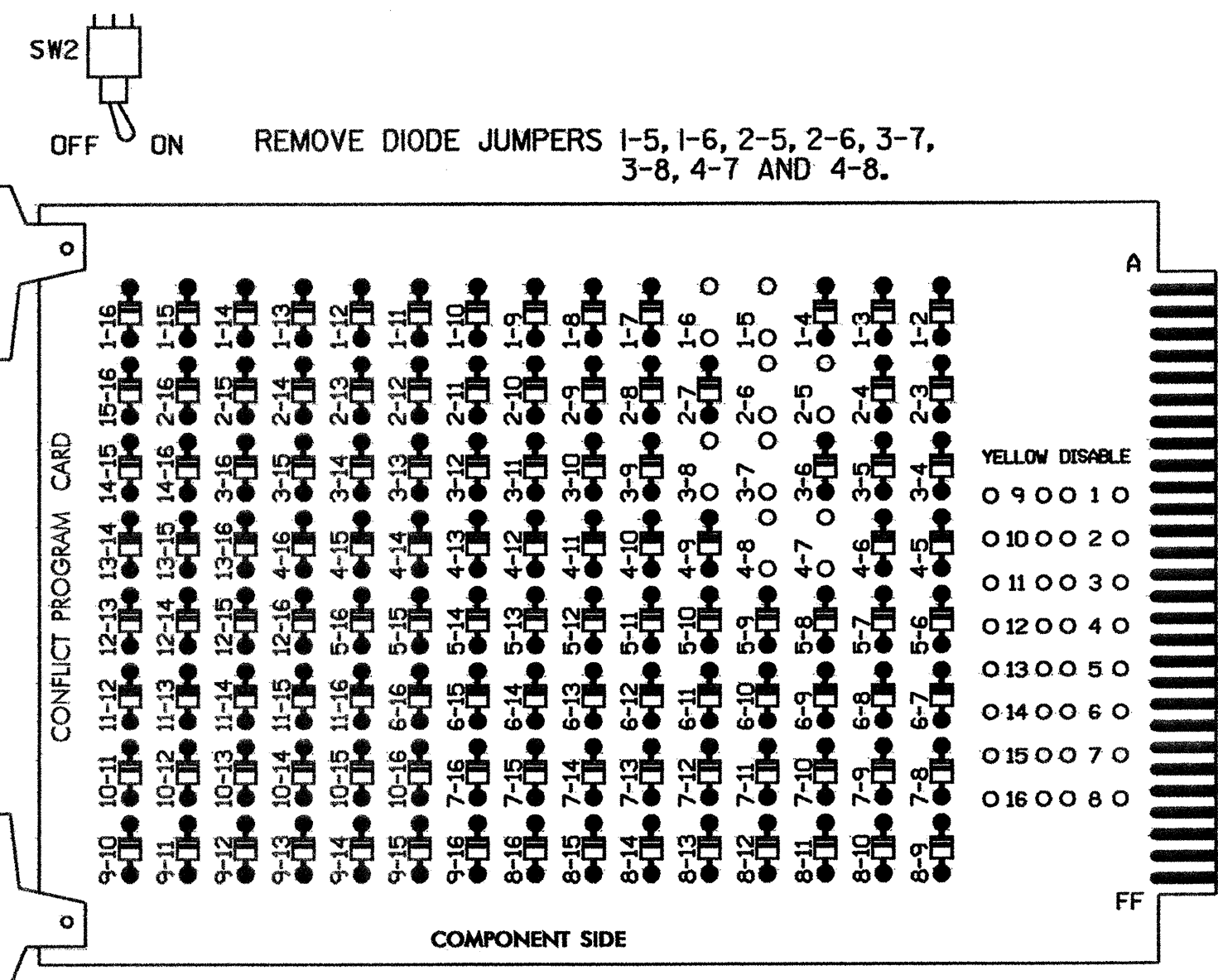


EDI MODEL 2010ECL CONFLICT MONITOR

PROGRAMMING DETAIL

WD ENABLE (remove jumpers and set switches 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 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. 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 AND 16 TO LOAD SWITCH AC+ PER CABINET MANUFACTURER'S INSTRUCTIONS.
- PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
- SET POWER-UP FLASH TIME TO 10 SECONDS AND IMPLEMENT WITHIN THE CONTROLLER PROGRAMMING.
- ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- PROGRAM PHASES 4 AND 8, ON CONTROLLER UNIT, FOR DOUBLE ENTRY.
- PROGRAM PHASES 2 AND 6, ON CONTROLLER UNIT, FOR VOLUME DENSITY OPERATION.
- THIS SIGNAL IS WITHIN THE CITY OF DURHAM SIGNAL SYSTEM.

EQUIPMENT INFORMATION

*CONTROLLER.....McCain TRAFFIC TYPE 170E
 *CABINETMcCain TRAFFIC MODEL 332
 *SOFTWAREBI TRANS 233NC2
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8
 PHASES USED.....1,2,3,4,5,6,7,8
 OVERLAPS.....NONE
 EXISTING TO REMAIN IN USE*

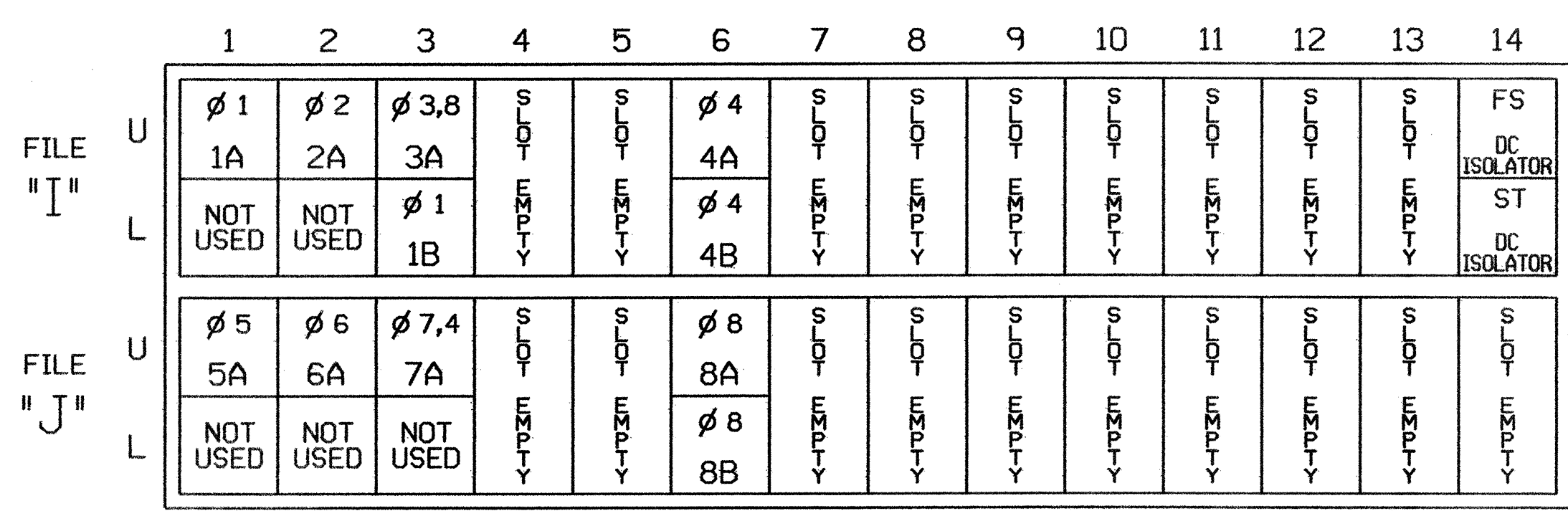
FIELD CONNECTION HOOK-UP CHART

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	8	8 PED	
SIGNAL HEAD NO.	11	82	21,22	NU	22,81	41,42	NU	51	61,62	NU	41,62	81,82, 83	NU
GREEN			130			103			136			109	
YELLOW			129			102			135			108	
RED			128		*	101			134		*	107	
RED ARROW	125							131					
YELLOW ARROW	126	126			117			132			123		
GREEN ARROW	127	127			118			133			124		

NU = NOT USED
 * DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS SHEET.

INPUT FILE POSITION LAYOUT

(front view)



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.	DETECTOR NO.	PIN NO.	ATTRIBUTES	NEMA PHASE
1A	TB2-1,2	I1U	1	56	5 7	1
2A	TB2-5,6	I2U	2	39	5 7	2
3A	TB2-9,10	I3U	3	63	5 7	3
			4	63	5 7	8
1B	TB2-11,12	I3L	5	76	5 7	1
4A	TB4-9,10	I6U	6	41	5 7	4
4B	TB4-11,12	I6L	7	45	5 7	4
5A	TB3-1,2	J1U	8	55	5 7	5
6A	TB3-5,6	J2U	9	40	5 7	6
7A	TB3-9,10	J3U	10	64	5 7	7
8A	TB5-9,10	J6U	12	42	5 7	8
8B	TB5-11,12	J6L	13	46	5 7	8

NOTE: PROGRAM DETECTOR DELAY AND CARRYOVER TIMES AS SPECIFIED ON SIGNAL DESIGN PLANS.

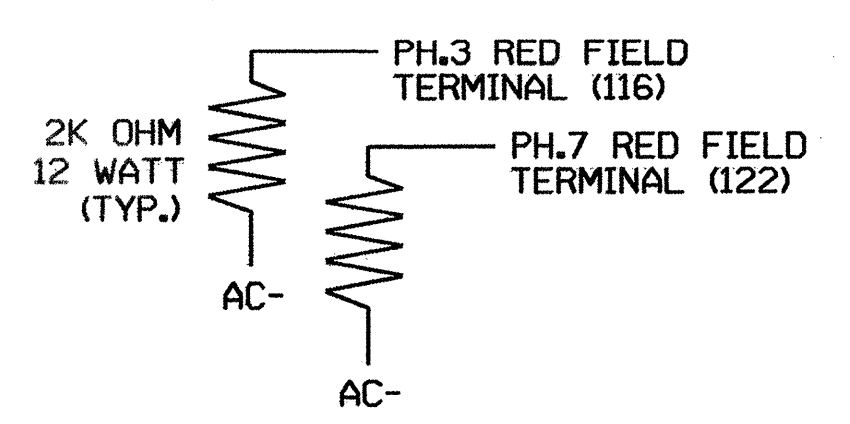
BACK-UP PROTECTION NOTE

PROGRAM PHASES 3 AND 7 AS PROTECTED/PERMITTED AT KEYPAD INPUT E/125+E+4=φ3,7

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-0861
 DESIGNED: FEBRUARY 2005
 SEALED: 3/11/05
 REVISED: N/A

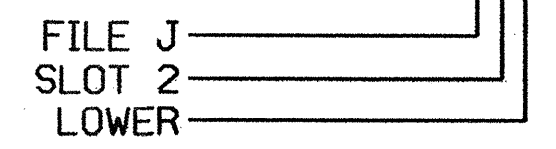
TYPE 170 CONTROLLER & 332 CABINET

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.

INPUT FILE POSITION LEGEND: J2L



DETECTOR ATTRIBUTES LEGEND:

- 1-FULL TIME DELAY
- 2-PED CALL
- 3-RESERVED
- 4-COUNTING
- 5-EXTENSION
- 6-TYPE 3
- 7-CALLING
- 8-ALTERNATE

SIGNAL UPGRADE

ELECTRICAL AND PROGRAMMING DETAILS FOR:
 Prepared in the Office of:

 122 N. McDowell St., Raleigh, NC 27603

SR 1121 (CORNWALLIS ROAD) at SR 1999 (DAVIS DRIVE)
 DIVISION 05 DURHAM COUNTY RTP
 PLAN DATE: MARCH 2005 REVIEWED BY: T. J. J...
 PREPARED BY: F. E. RUSS REVIEWED BY:
 REVISIONS: INIT. DATE

SEAL

 SIGNATURE: George C. Brown 3/11/05
 DATE: 3/11/05
 SIG. INVENTORY NO. 05-0861