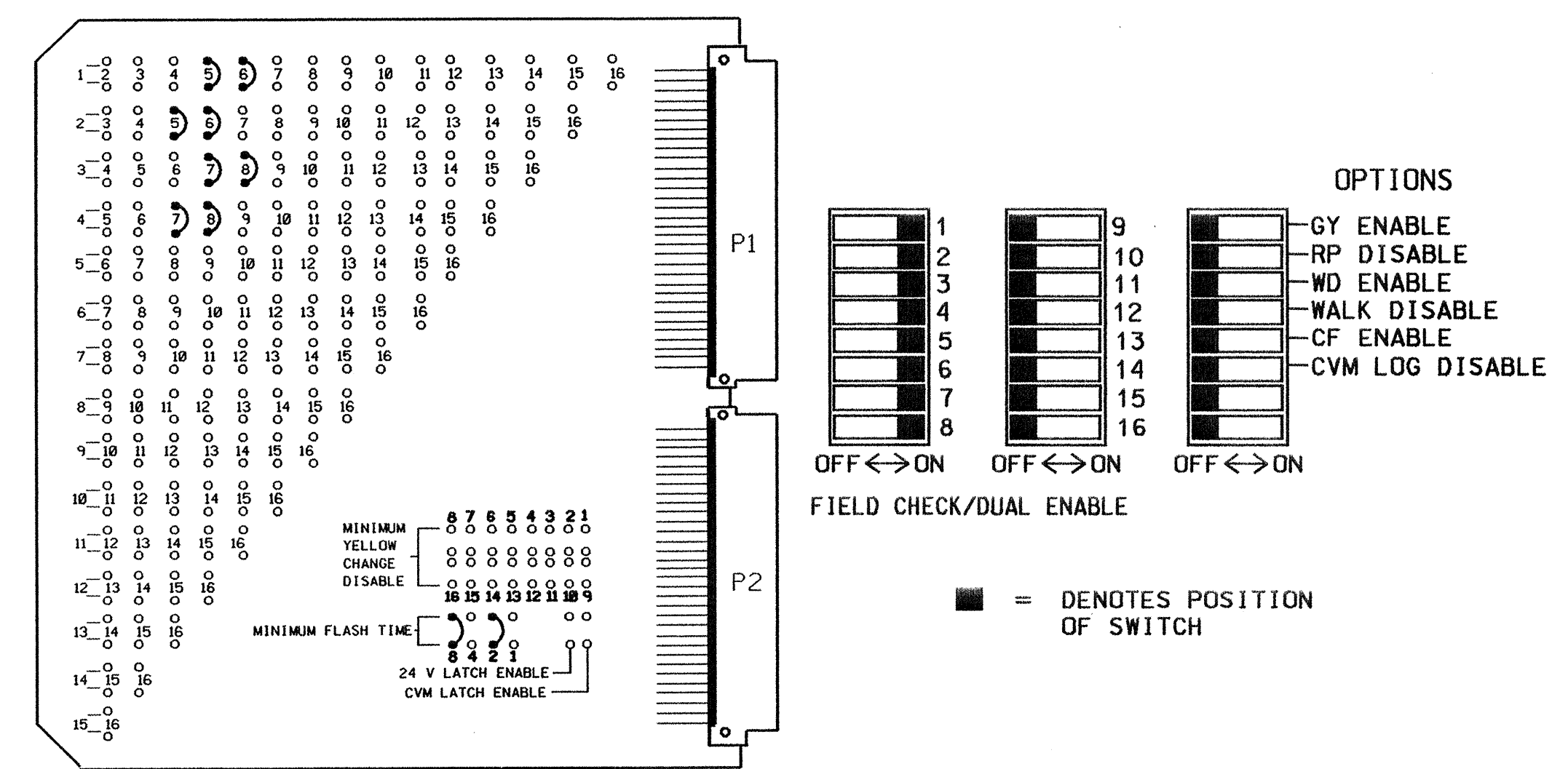


**EDI MODEL MMU-16E  
MALFUNCTION MANAGEMENT UNIT  
PROGRAMMING DETAIL**

(program card and set switches as shown below)



MMU PROGRAMMING CARD

**NOTES**

1. TO PREVENT "FLASH-CONFLICT" PROBLEMS, WIRE ALL UNUSED LOAD SWITCHES TO FLASH RED. VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
2. TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS, TIE UNUSED LOAD SWITCH RED OUTPUTS 9,10,11,12,13,14,15 AND 16 TO LOAD SWITCH AC+ BY INSERTING A JUMPER PLUG IN THE UNUSED LOAD SWITCH SOCKET FROM PIN 1 (LS AC+) TO PIN 3 (RED OUT). MAKE SURE ALL FLASH TRANSFER RELAYS ARE IN PLACE.
3. PROGRAM CONTROLLER TO START UP IN PHASES 2 AND 6 GREEN.
4. SET POWER-UP FLASH TIME TO 10 SECONDS AND IMPLEMENT ON THE MALFUNCTION MANAGEMENT UNIT. SET CONTROLLER POWER-UP FLASH TIME TO 0 SECONDS.
5. ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
6. THIS SIGNAL IS PART OF THE HIGH POINT CITY SYSTEM.

**FIELD CONNECTION HOOK-UP CHART**

PHASE	1	2	3	4	5	6	7	8	OLA	OLB	OLC	OLD	2 PED	4 PED	6 PED	8 PED
SIGNAL HEAD NO.	61	21,22	31	41,42	21,42	61,62	71	81,82	NU	NU	NU	NU	NU	NU	NU	NU
GREEN		2G		4G		6G		8G								
YELLOW		2Y		4Y		6Y		8Y								
RED	*	2R		4R	*	6R		8R								
RED ARROW			3R					7R								
YELLOW ARROW	1Y		3Y		5Y		7Y									
GREEN ARROW	1G		3G		5G		7G									

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

**PEEK 3000 BACK-UP PROTECTION PROGRAMMING**

(program controller as shown below)

FROM THE CONTROLLER SUBMENU:  
SELECT **2. PHASE FUNCTIONS** THEN  
SELECT **2. DYNAMIC OMITS**

DYNAMIC OMIT GRP	1 (1 OF 8)	VALUE(YES/NO)
ENABLE: Y		1 1 1 1 1 1 1
FUNC\PH	1 2 3 4 5 6 7 8 9 0 12 3 4 5 6	
OMIT PHS X		
IF PH ON X		
OR		
IF O/L A B C D E F G H I J K L M N O P		
GRN		

DYNAMIC OMIT GRP	1 (2 OF 8)	VALUE(YES/NO)
ENABLE: Y		1 1 1 1 1 1 1
FUNC\PH	1 2 3 4 5 6 7 8 9 0 12 3 4 5 6	
OMIT PHS X		
IF PH ON X		
OR		
IF O/L A B C D E F G H I J K L M N O P		
GRN		

FROM THE CONTROLLER SUBMENU:  
SELECT **5. DETECTOR MENU** THEN  
SELECT **5. DETECTOR COPY**

DETECTOR COPY	VALUE(YES/NO)
DETECTOR COPY ENABLE: Y	
DETECTOR COPY GRP 2 INPUT ENABLE: N	
PGDN FOR COPY PROGRAMMING	

DETECTOR COPY GRP 1	1 OF 16	ON THE FOLLOWING PHASE GREENS
COPY DETECTORS FROM PH: 1 TO PH: 4		
(1-16)	(1-16)	
VALUE (YES/NO)		1 1 1 1 1 1 1
PH GRNS 1 2 3 4 5 6 7 8 9 0 12 3 4 5 6		
X X		

DETECTOR COPY GRP 1	2 OF 16	ON THE FOLLOWING PHASE GREENS
COPY DETECTORS FROM PH: 5 TO PH: 4		
(1-16)	(1-16)	
VALUE (YES/NO)		1 1 1 1 1 1 1
PH GRNS 1 2 3 4 5 6 7 8 9 0 12 3 4 5 6		
X X		

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1217 T1; 07-1217 T2  
DESIGNED: July 2004  
SEALED: 8/17/04  
REVISED:

**EQUIPMENT INFORMATION**

CONTROLLER.....PEEK 3000  
CABINET .....PEEK **TS-2** NC-6  
CABINET MOUNT.....BASE  
LOADBAY POSITIONS.....16  
LOAD SWITCHES USED.....1,2,3,4,5,6,7,8  
PHASES USED.....1,2,3,4,5,6,7,8  
OLA.....NOT USED  
OLB.....NOT USED  
OLC.....NOT USED  
OLD.....NOT USED

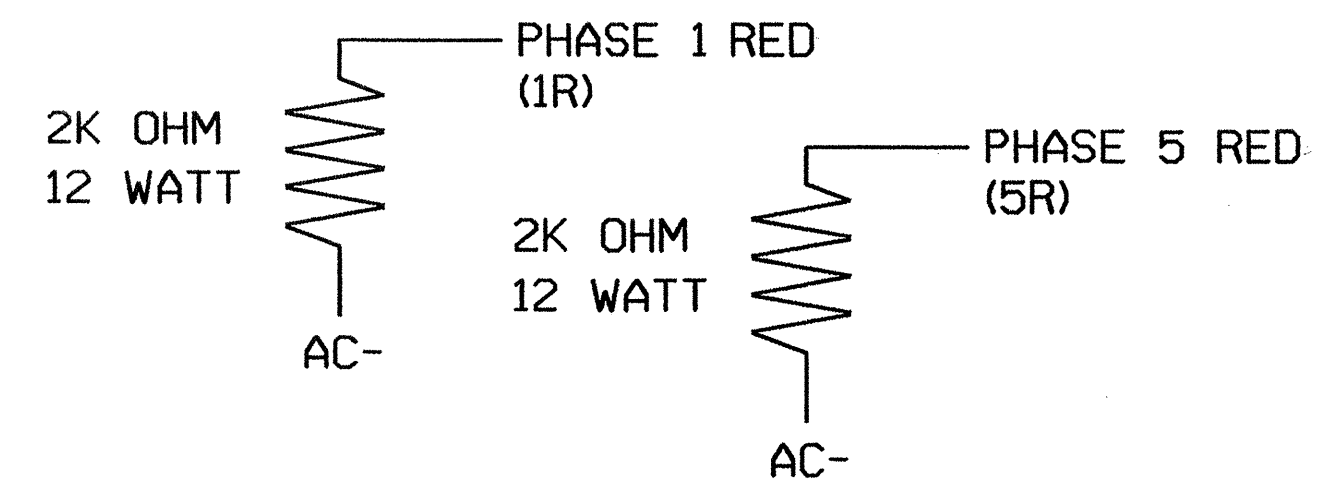
**LOAD SWITCH ASSIGNMENT DETAIL**

(program controller according to schedule in chart below)

LOAD SWITCH NUMBER	FUNCTION
1	Ø1
2	Ø2
3	Ø3
4	Ø4
5	Ø5
6	Ø6
7	Ø7
8	Ø8
9	
10	
11	
12	
13	
14	
15	
16	

UNUSED LOAD SWITCH CHANNELS SHALL BE DISABLED IN CONTROLLER PROGRAMMING.

**LOAD RESISTOR INSTALLATION DETAIL**



NOTE: THE PURPOSE OF THIS RESISTOR IS TO LOAD THE CHANNEL RED MONITOR INPUT IN ORDER FOR THE MALFUNCTION MANAGEMENT UNIT TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON PHASES THAT DO NOT USE THE RED DISPLAY IN THE FIELD.

**SPECIAL DETECTOR NOTES**

1. INSTALL A VIDEO DETECTION SYSTEM FOR VEHICLE DETECTION. PERFORM INSTALLATION ACCORDING TO THE MANUFACTURER'S DIRECTIONS AND NCDOT ENGINEER-APPROVED MOUNTING LOCATIONS TO ACCOMPLISH THE DETECTION SCHEMES SHOWN ON THE SIGNAL DESIGN PLANS.
2. INSURE THAT THE LOOP EMULATION DETECTION SYSTEM IS COMPATIBLE WITH TS2 EQUIPMENT AND COMMUNICATES THROUGH 'SDLC' SERIAL PORTS.

Temporary Signal - Phases 1 and 2

	ELECTRICAL AND PROGRAMMING DETAILS FOR: <b>SR 1546 (Guilford College Road)</b> At <b>SR 1424 (Hilltop Road)/ Piedmont Parkway</b> Division 7 Guilford County S. of Greensboro PLAN DATE: <b>Aug. 2004</b> REVIEWED BY: <i>T. Japp</i> PREPARED BY: <b>R. Hinshaw</b> REVIEWED BY:
	REVISIONS: _____ INIT. _____ DATE _____ SIGNATURE: <i>R. Hinshaw</i> DATE: _____ SEAL INVENTORY NO. 07-1217 T

18-AUG-2004 08:11  
U:\071217\_2004\xxx\...  
R.Hinshaw