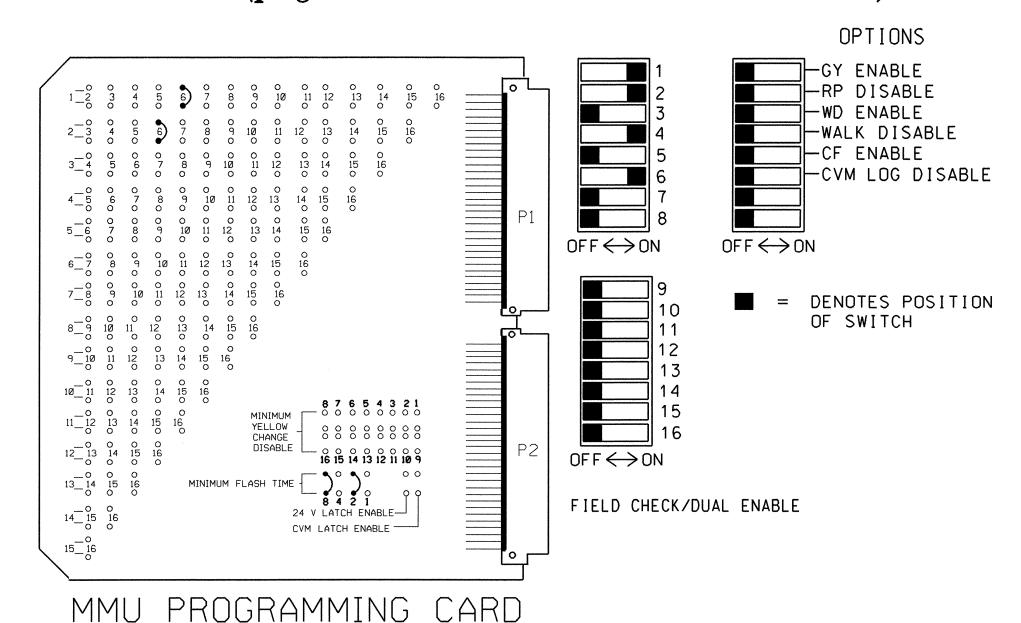
EDI MODEL MMU-16E MALFUNCTION MANAGEMENT UNIT PROGRAMMING DETAIL

(program card and set switches as shown below)



DETECTOR RACK SET-UP DETAIL

INSERT DETECTOR CARDS IN RACK ACCORDING TO THE DETAIL SHOWN BELOW. PARTICULAR DETECTOR CHANNELS WILL CALL PHASES INDICATED

PARTICULAR DETECTOR CHANNELS WILL CALL PHASES INDICATED.										
	CH1	CH1	***	CH1		CH1				
	L3	L1	SL	L5	SL	L9	S	S		
	ø2	Ø 1		ø4		ø6	L L	L		
					0 T		U	U		
BIU			E M P T		E M P T		•	E	POWER SUPPLY	
	CH2	CH2		CH2		CH2	E		۸۵۲۸	
	L4	L2		L6		L10	M M P P T T		AREA	
	ø2	ø6		Ø4		NOT		, T		
	,) * *	Y	-	Y	USED	Y	Y		

	N LOOP	PS TO TERMINALS PANEL AS SHOWN CHART BELOW			PROGRAM CONTROLLER DETECTORS ACCORDING TO THE SCHEDULE SHOWN IN THE CHART BELOW				
	LOOP NO.	LOOP PANEL TERMINALS	DETECTOR TIMERS (EX	· · ·	CONTROLLER DETECTOR NO.	1 - 1	T] FEATURE	MING TIME (SEC	
ADD JUMPERS FROM:		L1A, L1B	DELAY) AS SHOWN ON	1	Ø 1	DELAY	15		
L1A TO L2A, AND L1B TO L2B	1A	L2A, L2B	THE SIGNAL PLANS.		2*	ø6	DELAY	3	
	2A,2B	L3A, L3B	ACCION CONTRO	SSIGN CONTROLLER SYSTEM		ø2	EXTEND	1.8	
	2C,2D	L4A, L4B	DETECTORS TO		4	ø2			
	4A			NUMBERS AS SHOWN IN		Ø 4			
	4B	L6A, L6B	CHART	LOCAL CONT.	6	Ø 4	DELAY	15	
***		L7A, L7B	CONTROLLER SYS. DET. NO. 1 2 3 4 5]	ø6	EXTEND	1.8	
		L8A, L8B			. 8				
	6B,6C	L9A, L9B			9	ø6			
	NU	L10A, L10B			10	NU			
		L11A, L11B			11				
		L12A, L12B			12				
		L13A, L13B			13			and an order of the second	
		L14A, L14B	6		14				
		L15A, L15B	7		15				
		L16A, L16B	8		16		***************************************		

^{*} THIS DETECTOR IS EQUIPPED WITH DELAY AND EXTEND TIMER. TIMING REQUIRED FOR THIS DETECTOR CHANNEL SHALL BE PROGRAMMED ON THE DETECTOR UNIT, NOT THE CONTROLLER.

- UNUSED LOAD SWITCH RED OUTPUTS 3,5,7,8,9,10,11,12,13,14, 15 & 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 O SECONDS.
- 5. ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
- 6. PROGRAM DETECTORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO ACCOMPLISH THE DETECTION SCHEMES SHOWN ON THE SIGNAL DESIGN PLANS.
- 7. PROGRAM DETECTOR CALL DELAY AND EXTENSION TIMING ON THE CONTROLLER, UNLESS OTHERWISE SPECIFIED.
- 8. SET ALL DETECTOR CARD UNIT CHANNELS TO "PRESENCE" MODE.
- 9. PROGRAM AND WIRE THIS CONTROLLER AND CABINET TO BE PART OF THE HIGH POINT CITY SIGNAL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER INTERCONNECTION AND OPERATION OF THIS SIGNAL WITHIN THE SYSTEM.
- IO. A MICROWAVE SENSOR SHALL BE INSTALLED FOR VEHICLE DETECTION ON PHASE 6 AT LOCATION SHOWN ON SIGNAL DESIGN PLAN (AREA OF DETECTION LABELED '6A'). INSTALLATION SHALL BE PERFORMED PER MANUFACTURER'S INSTRUCTIONS. SENSOR SHALL BE FIELD ADJUSTED AT THE DIRECTION OF THE D.T.E. SENSOR SHALL BE WIRED SUCH THAT INPUT INTERFACE TO THE CONTROLLER IS ACHIEVED THROUGH ISOLATION CIRCUITRY.

LOAD SWITCH ASSIGNMENT DETAIL

LOAD SWITCH

NUMBER

2

4

5

6

7

8

10

11

12

13

14

15

16

(program controller according to schedule in chart below)

FUNCTION

Ø 1

ø2

øЗ

ø 4

ø 5

ø6 ø 7

ø8

OLA

OLB

OLC

OLD

ø 2PED

Ø 4PED

Ø 6PED

Ø 8PED

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

EQUIPMENT INFORMATION

FIELD CONNECTION HOOK-UP CHART

NU NU 🖟

6G

6Y

6R

* A LOAD RESISTOR SHALL BE INSTALLED ON LOAD SWITCH I RED FIELD TERMINAL.

LOAD RESISTOR INSTALLATION DETAIL

NOTE: THE PURPOSE OF THIS RESISTOR IS TO LOAD THE CHANNEL

THE RED DISPLAY IN THE FIELD.

RED MONITOR INPUT IN ORDER FOR THE MALFUNCTION MANAGEMENT UNIT TO USE THE FULL SIGNAL SEQUENCE MONITORING CAPABILITY ON PHASES THAT DO NOT USE

- PHASE 1 RED

(1R)

REFER TO LOAD RESISTOR INSTALLATION DETAIL THIS SHEET.

2K OHM

12 WATT

4G

4 Y

4R

2G

2Y

2R

*

HEAD NO.

YELLOW

ARROW

YELLOW

ARROW

ARROW

NU = NOT USED

CONTROLLER.....PEEK TRAFFIC 3000 CABINET PEEK TRAFFIC NC-6 TS2-1 CABINET MOUNT.....BASE LOADBAY POSITIONS.....16 LOAD SWITCHES USED.....1, 2, 4, 6 OL/A....NOT USED OL/B.....NOT USED OL/C.....NOT USED OL/D.....NOT USED

HIGH POINT CITY SIGNAL SYSTEM INTERSECTION I.D.712

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1578 DESIGNED: 03/19/2004 SEALED: 06/15/2004 REVISED:

PROJECT REFERENCE NO.

U-2717

8 OLA OLB OLC OLD 2 4 6 8 PED PED PED

NU

NU NU

SHEET NO.

SIG.30

NEW INSTALLATION



PLANS PREPARED BY:

RUMMEL KLEPPER & KAHL, LLP consulting engineers

5800 FARINGDON PLACE SUITE 105 RALEIGH. NORTH CAROLINA 27609-3960 **FOR**

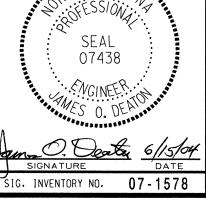
DIVISION OF HIGHWAYS

ELECTRICAL AND PROGRAMMIN DETAILS FOR

SR 1113 (KIVETT DRIVE

US 29-70, I-85 BUS. RAMP 'A' & RAMP 'B' DIVISION 07 GUILFORD COUNTY

HIGH POINT MAY 2004 REVIEWED BY: J O DEATON PREPARED BY: M W YALCH REVIEWED BY: REVISIONS INIT. DATE



^{***} DETECTOR RACK OUTPUTS 1-16 SHALL BE WIRED TO A TERMINAL BLOCK. THE OUTPUT FROM THE MICROWAVE DETECTOR SHALL BE TIED TO THE TERMINAL CONNECTED TO DETECTOR `L8'. THE FAULT STATUS FOR THIS CHANNEL SHALL BE TIED TO LOGIC GROUND.