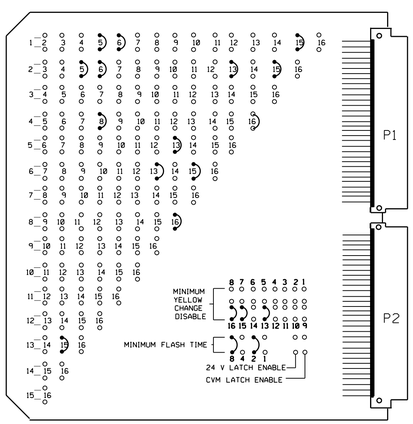
PROJECT REFERENCE NO.	SHEET NO.
EB-3314F	SIG. 1.1

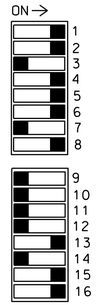
▽ EDI MODEL MMU-16 MALFUNCTION MANAGEMENT UNIT PROGRAMMING DETAIL

(program card and set switches as shown below)

NOTE: JUMPERS MUST BE AS SHOWN ON PROGRAMMING CARD BELOW.

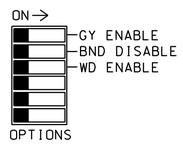


MMU PROGRAMMING CARD



NOTE: ENABLE ADDITIONAL CHANNEL 8.

■ = DENOTES POSITION OF SWITCH



NOTES

1. TO PREVENT "FLASH-CONFLICT" PROBLEMS, ALL UNUSED LOAD SWITCHES SHALL BE WIRED TO FLASH RED. THE INSTALLER SHALL 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: 3, 7, 9, 10, 11, 12 AND, 14 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. THE CONTROLLER SHALL BE PROGRAMMED TO START UP IN PHASES 2 AND 6 GREEN.
4. POWER-UP FLASH TIME SHALL BE SET TO 10 SECONDS AND IMPLEMENTED ON THE MALFUNCTION MANAGEMENT UNIT. CONTROLLER POWER-UP FLASH TIME SHALL BE SET TO 0 SECONDS.
5. ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
6. UNLESS OTHERWISE SPECIFIED, SET ALL DETECTOR CARD UNITS TO 'PRESENCE' MODE.
7. UNLESS OTHERWISE SPECIFIED, DETECTOR CALL DELAY AND EXTENSION TIMING SHALL BE PROGRAMMED ON THE CONTROLLER.
8. THE CONTROLLER AND CABINET ARE WITHIN THE CITY OF HIGH POINT'S EXISTING COMPUTERIZED SIGNAL SYSTEM. MAINTENANCE OF THIS SYSTEM WILL CONTINUE TO BE THE RESPONSIBILITY OF THE CITY OF HIGH POINT.

NOTES: 1. ADD NEW LOAD SWITCH 8.
2. FIELD CONNECTIONS MUST BE AS SHOWN IN CHART BELOW.

▽ 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.	11	21,22	NU	41,42, 43	42	51	61,62	NU	81,82	NU	NU	NU	NU	P21, P22	NU	P61, P62	P81, P82
GREEN		2G		4G			6G		8G								
YELLOW		2Y		4Y			6Y		8Y								
RED		2R		4R			6R		8R								
RED ARROW	1R					5R											
YELLOW ARROW	1Y				5Y	5Y											
GREEN ARROW	1G				5G	5G											
✋														13R		15R	16R
🚶														13G		15G	16G

NU = NOT USED

DETECTOR RACK NO.1 SET-UP DETAIL

RELOCATE EXISTING DETECTOR CARD IN RACK ACCORDING TO THE DETAIL SHOWN BELOW. PROGRAM PARTICULAR DETECTOR CHANNELS TO CALL PHASES INDICATED.

BIU	CH1 L3 ø4	CH1 L1 ø1	CH1 L7 ø6	CH1 L5 ø5	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	POWER SUPPLY AREA
	CH2 L4 ø4	CH2 L2 ø2	CH2 L8 ø8	CH2 L6 ø5					
	☒	☒	☒	☒					

WIRE LOOPS TO TERMINALS ON LOOP PANEL AS SHOWN IN THE CHART BELOW

LOOP NO.	LOOP PANEL TERMINALS
1A	L1A, L1B
2A,2B	L2A, L2B
4A	L3A, L3B
4B	L4A, L4B
5A	L5A, L5B
5B	L6A, L6B
6A,6B	L7A, L7B
8A	L8A, L8B
—	L9A, L9B
—	L10A, L10B
—	L11A, L11B
—	L12A, L12B
—	L13A, L13B
—	L14A, L14B
—	L15A, L15B
—	L16A, L16B
S28	L29A, L29B
S29	L30A, L30B
S30	L31A, L31B
S31	L32A, L32B

MOVE DETECTOR CARD: FROM ○——→ TO

☒ = EXISTING 2-CHANNEL DETECTOR CARD

NOTE

BE SURE TO PROGRAM DETECTOR TYPES AND TIMERS (EXTEND AND DELAY) AS SHOWN ON THE SIGNAL PLANS.

ASSIGN CONTROLLER SYSTEM DETECTORS TO LOCAL CONT. DET. NUMBERS AS SHOWN IN CHART BELOW

CONTROLLER SYS. DET. NO.	LOCAL CONT. DETECTOR NO.
1	29
2	30
3	31
4	32
5	—
6	—
7	—
8	—

PROGRAM CONTROLLER DETECTORS ACCORDING TO THE SCHEDULE SHOWN IN THE CHART BELOW

CONTROLLER DETECTOR NO.	FUNCTION	TIMING FEATURE	TIMING TIME (SEC)
1	ø1	—	—
2	ø2	—	—
3	ø4	DELAY	3
4	ø4	—	—
5	ø5	DELAY	3
6	ø5	DELAY	15
7	ø6	—	—
8	ø8	DELAY	10
9	—	—	—
10	—	—	—
11	—	—	—
12	—	—	—
13	—	—	—
14	—	—	—
15	—	—	—
16	—	—	—
29	SYSTEM	—	—
30	SYSTEM	—	—
31	SYSTEM	—	—
32	SYSTEM	—	—

▽ EQUIPMENT INFORMATION

CONTROLLER.....PEEK TRAFFIC 3000*
CABINET .....PEEK TRAFFIC (DWG. #CWD-1038) TS2 *
CABINET MOUNT.....BASE
LOADBAY POSITIONS.....16
LOAD SWITCHES USED.....1, 2, 4, 5, 6, 8, 13, 15, 16
PHASES USED.....1, 2, 4, 5, 6, 8, 2 PED, 6 PED, 8 PED
OL/A.....NOT USED
OL/B.....NOT USED
OL/C.....NOT USED
OL/D.....NOT USED

*EXISTING TO REMAIN IN PLACE FOR CONTINUED USE

DETECTOR RACK NO.2 SET-UP DETAIL

DETECTOR CARDS IN RACK SHOWN BELOW ARE EXISTING FOR EXISTING SYSTEM LOOPS, AND ARE TO REMAIN IN PLACE FOR CONTINUED USE.

BIU	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	CH1 L31 SYS. DET.	CH1 L29 SYS. DET.	
								CH2 L32 SYS. DET.	CH2 L30 SYS. DET.	
								☒	☒	

▽ 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	OLA
10	OLB
11	OLC
12	OLD
13	ø2 PED
14	ø4 PED
15	ø6 PED
16	ø8 PED

▽ THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 08-0504
DESIGNED: July 2014
SEALED: 8-20-14
REVISED: N/A

TS-2 TYPE 1 CABINET

REVISION ▽ SEAL

NORTH CAROLINA PROFESSIONAL SEAL 008453 ENGINEER JOHN T. ROWE, JR.

DocuSigned by: John T. Rowe, Jr. 641D60C145EE4F5 — 8/21/2014 DATE

Electrical Detail -Sheet 1 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:
Traffic Engineering and Safety Systems Branch, Signal Management Section, Division of Highways, State of North Carolina, Department of Transportation
122 N. McDowell St., Raleigh, NC 27603

SR 1009 (MAIN STREET)
at
SR 1681 (BALFOUR DRIVE)/
SR 1911 (ASHLAND DR.)

DIVISION 08 RANDOLPH COUNTY ARCHDALE

PLAN DATE: DECEMBER 2001 REVIEWED BY: T. JOYCE
PREPARED BY: F.E. RUSS REVIEWED BY:

REVISIONS	INIT.	DATE
▽ Added PEDs.(JP)	JTR	8/21/2014

SEAL

Not a certified document as to the Original Document but Only as to the Revisions - This document originally issued and sealed by George C. Brown. PE# 022013, on 12-20-01.
This document is only certified as to the revisions.

SIGNATURE DATE

SIG. INVENTORY NO. 08-0504