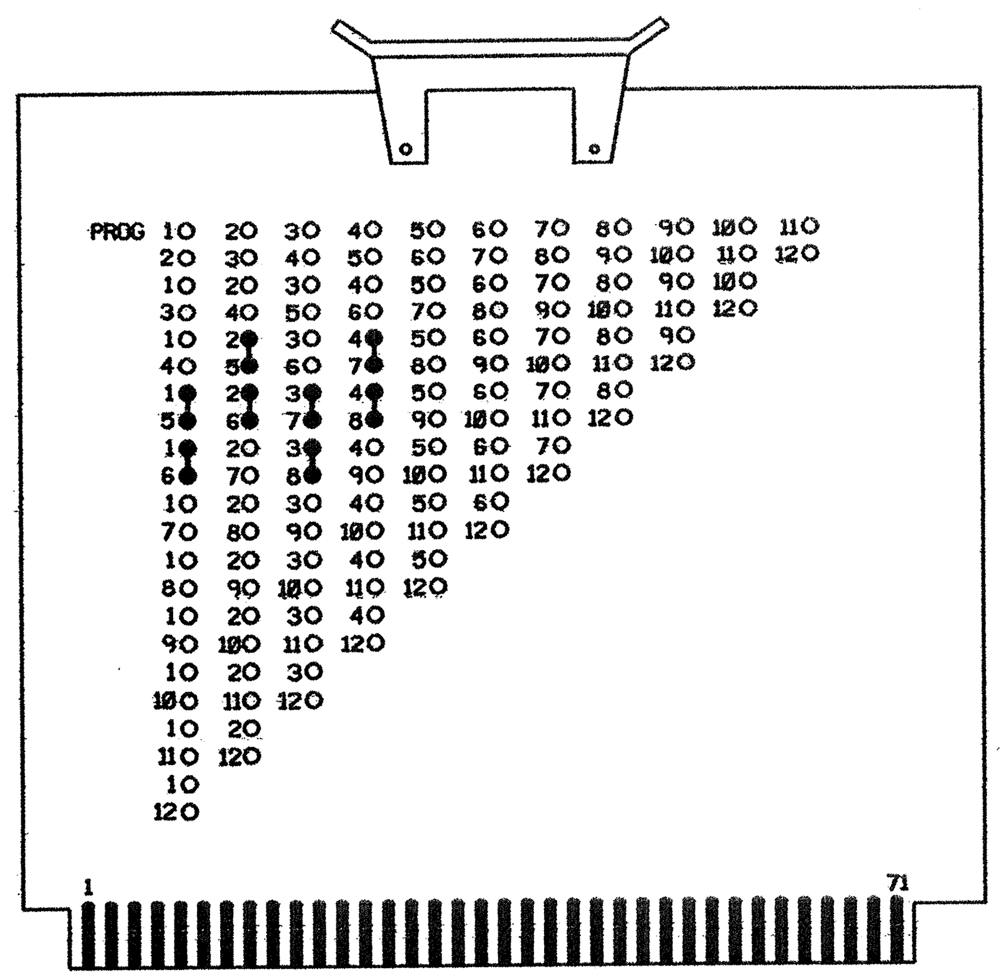
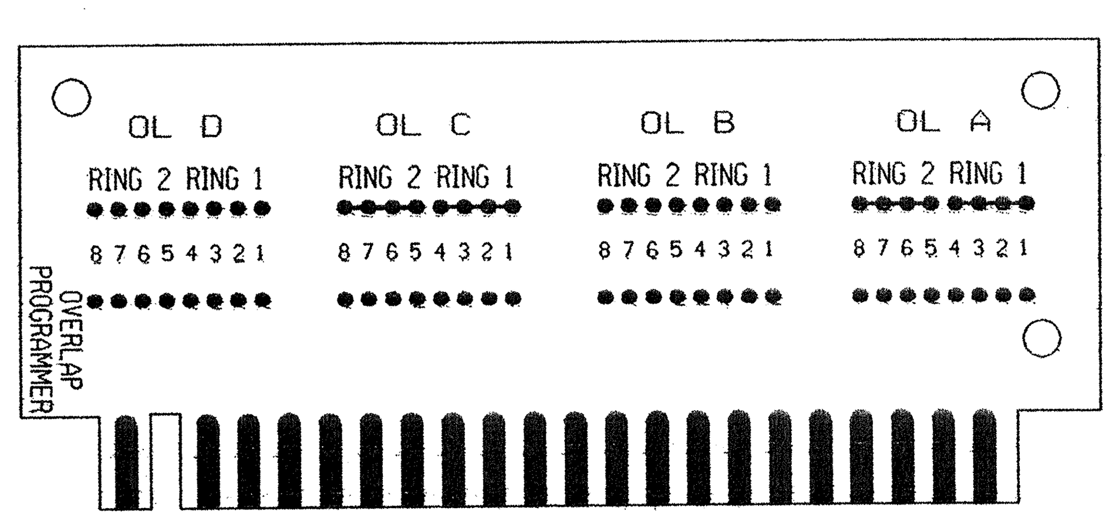
NEMA CONFLICT MONITOR PROGRAMMING CARD



(INSTALL JUMPERS AS SHOWN)

NOTE: MONITOR SHALL BE PROGRAMMED FOR FULL SIGNAL SEQUENCE MONITORING. (NEMA+)

NEMA OVERLAP CARD



OVERLAP CARD SHALL BE COMPLETELY BLANK (NO OVERLAPS)

NOTES

1. TO PREVENT "FLASH-CONFLICT" PROBLEMS, WIRE ALL UNUSED PHASES AND OVERLAPS 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 AND 12 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 CONFLICT MONITOR. SET CONTROLLER POWER-UP FLASH TIME TO 0 SECONDS.
5. ENABLE SIMULTANEOUS GAP-OUT FEATURE, ON CONTROLLER UNIT, FOR ALL PHASES.
6. WIRE DETECTORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO ACCOMPLISH THE DETECTION SCHEMES SHOWN ON THE SIGNAL DESIGN PLANS.
7. SET ALL DETECTOR UNIT CHANNELS TO "PRESENCE" MODE.
8. THE CABINET AND CONTROLLER ARE PART OF THE GASTONIA CITY SIGNAL SYSTEM.

EQUIPMENT INFORMATION

CONTROLLER.................TCT LMD-8000
CABINET....................PEEK DWG NO. 8500#9222
CABINET MOUNT..............BASE
LOADBAY POSITIONS..........16
LOAD SWITCHES USED.........1,2,3,4,5,6,7,8,13,14,15
PHASES USED................1,2,3,4,5,6,7,8,PED2,PED4,PED6
OVERLAP A..................NOT USED
OVERLAP B..................NOT USED
OVERLAP C..................NOT USED
OVERLAP D..................NOT USED

TYPICAL CONNECTION CHART FOR DETECTORS

PIN FUNCTION	LOOP PANEL TERMINATION
AC+	AC+
AC−	AC−
CHASSIS GROUND	CHASSIS GROUND
LOOP INPUT	LOOP
LOOP INPUT	LOOP
RELAY NORMALLY OPEN	VEHICLE CALL INPUT
RELAY COMMON	LOGIC GROUND
TIMER INHIBIT	ASSOCIATED PHASE GREEN

NOTES:

1. THE TIMER INHIBIT WIRE SHALL BE CONNECTED TO THE ASSOCIATED PHASE GREEN LOAD SWITCH OUTPUT WHEN ONLY DELAY OPERATION IS REQUIRED UNLESS OTHERWISE SPECIFIED BY THE LOOP AND DETECTOR UNIT INSTALLATION CHART.
2. IF EXTEND OPERATION IS REQUIRED, THE DELAY INHIBIT WIRE SHALL NOT BE CONNECTED.

FIELD CONNECTION HOOK-UP CHART

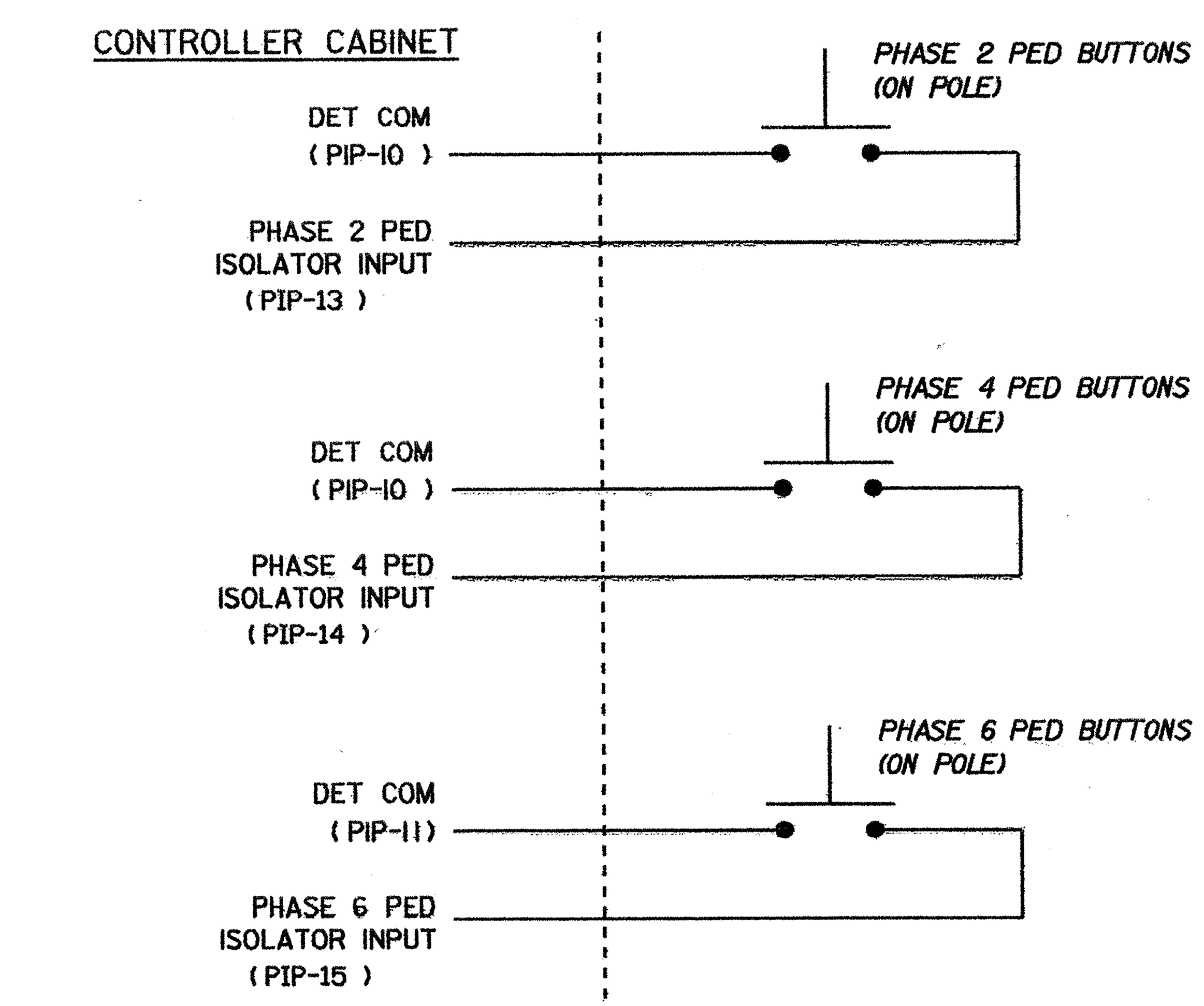
PHASE	1	2	3	4	5	6	7	8	OLA	OLB	OLC	OLD	2 PED	4 PED	6 PED	8 PED
SIGNAL HEAD NO.	11	21,22	31,32	41,42	51	61,62	71	81,82	NU	NU	NU	NU	P21, P22	P41, P42	P61, P62	NU
GREEN		506		512		518		524								
YELLOW		505		511		517		523								
RED		504		510		516		522								
RED ARROW	501		507		513		519									
YELLOW ARROW	502		508		514		520									
GREEN ARROW	503		509		515		521									
(WALK)													734	732	730	
(DON'T WALK)													733	731	729	

NU = NOT USED

✱ DENOTES INSTALL LOAD RESISTOR. SEE LOAD RESISTOR INSTALLATION DETAIL THIS PAGE.

PEDESTRIAN PUSH-BUTTON WIRING DETAIL

(wire push-buttons as shown below)



NOTE: MAKE SURE PED ISOLATOR CIRCUIT IS PRESENT IN CONTROLLER/CABINET ASSEMBLY.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0030
DESIGNED: 10/30/03
SEALED: 08/09/04
REVISED:

SIGNAL UPGRADE - FINAL DESIGN

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 29-74 (FRANKLIN BOULEVARD) AT NC 274 (BESSEMER CITY ROAD) / SR 2466 (GARRISON BOULEVARD)

DIVISION 12 GASTON COUNTY GASTONIA

PLAN DATE: JULY 2004	REVIEWED BY: T. Vza
PREPARED BY: WILLIAM HAIRSTON	REVIEWED BY:

REVISIONS	INIT.	DATE

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 022013 ENGINEER GEORGE C. BROWN
George C. Brown 8/16/04
SIGNATURE DATE

SIG. INVENTORY NO. 12-0030