

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

NOTE: 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.

NOTES

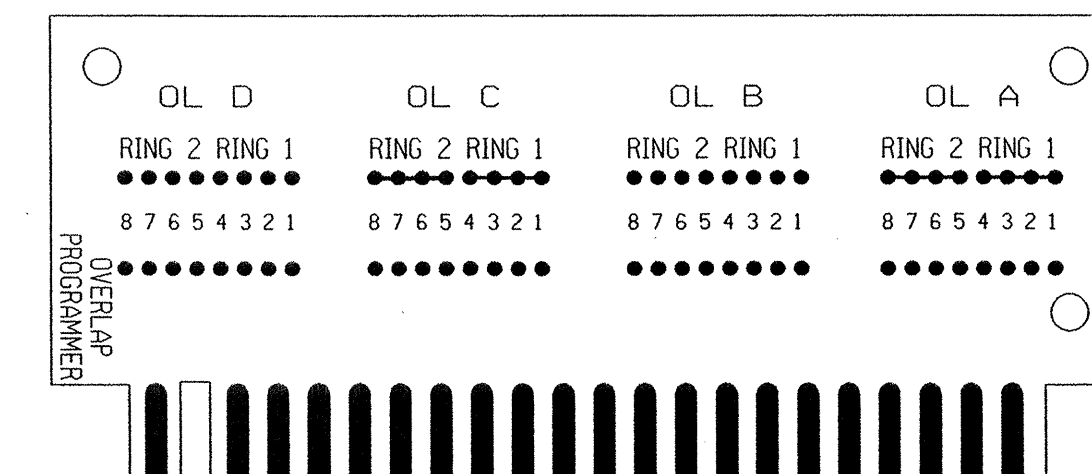
1. TO PREVENT "FLASH-CONFLICT" PROBLEMS, WIRE ALL UNUSED PHASES AND OVERLAPS TO FLASH RED. VERIFY THAT SIGNAL HEADS FLASH IN ACCORDANCE WITH THE SIGNAL PLANS.
2. TO PREVENT RED FAILURES ON UNUSED MONITOR CHANNELS, TIE UNUSED LOAD SWITCH RED OUTPUTS 1,3,5,7,8,9,10,11 AND 12 TO LOAD SWITCH AC+ BY INSERTING 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. PROGRAM PHASES 2 AND 6, ON CONTROLLER UNIT, FOR VOLUME DENSITY OPERATION.
9. THE CABINET AND CONTROLLER ARE PART OF THE ROCKY MOUNT CLOSED LOOP SYSTEM. INTERSECTION ADDRESS #704

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.	NU	21,22	NU	41,42	NU	61,62	NU	NU	NU	NU	NU	NU	NU	NU	NU	NU
GREEN		506		512		518										
YELLOW		505		511		517										
RED		504		510		516										
RED ARROW																
YELLOW ARROW																
GREEN ARROW																

NU = NOT USED

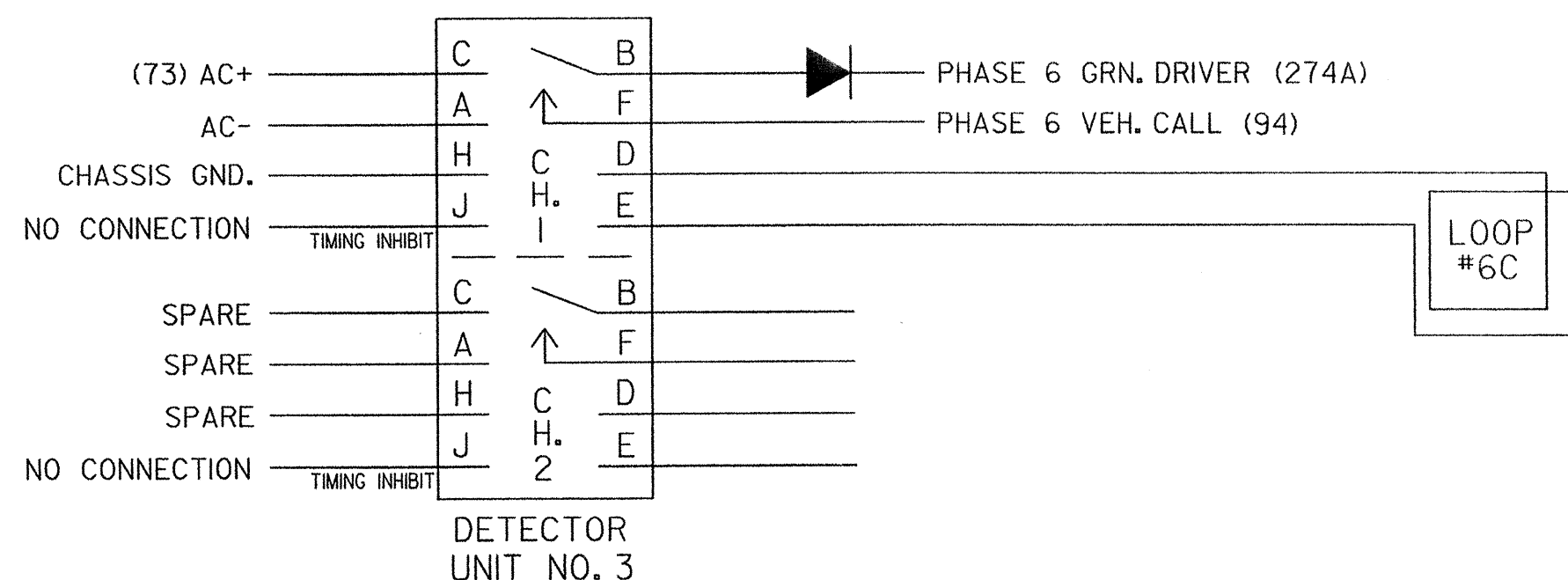
NEMA OVERLAP CARD



OVERLAP CARD SHALL BE COMPLETELY BLANK (NO OVERLAPS)

SPECIAL DETECTOR WIRING DETAIL

(WIRE AS SHOWN)



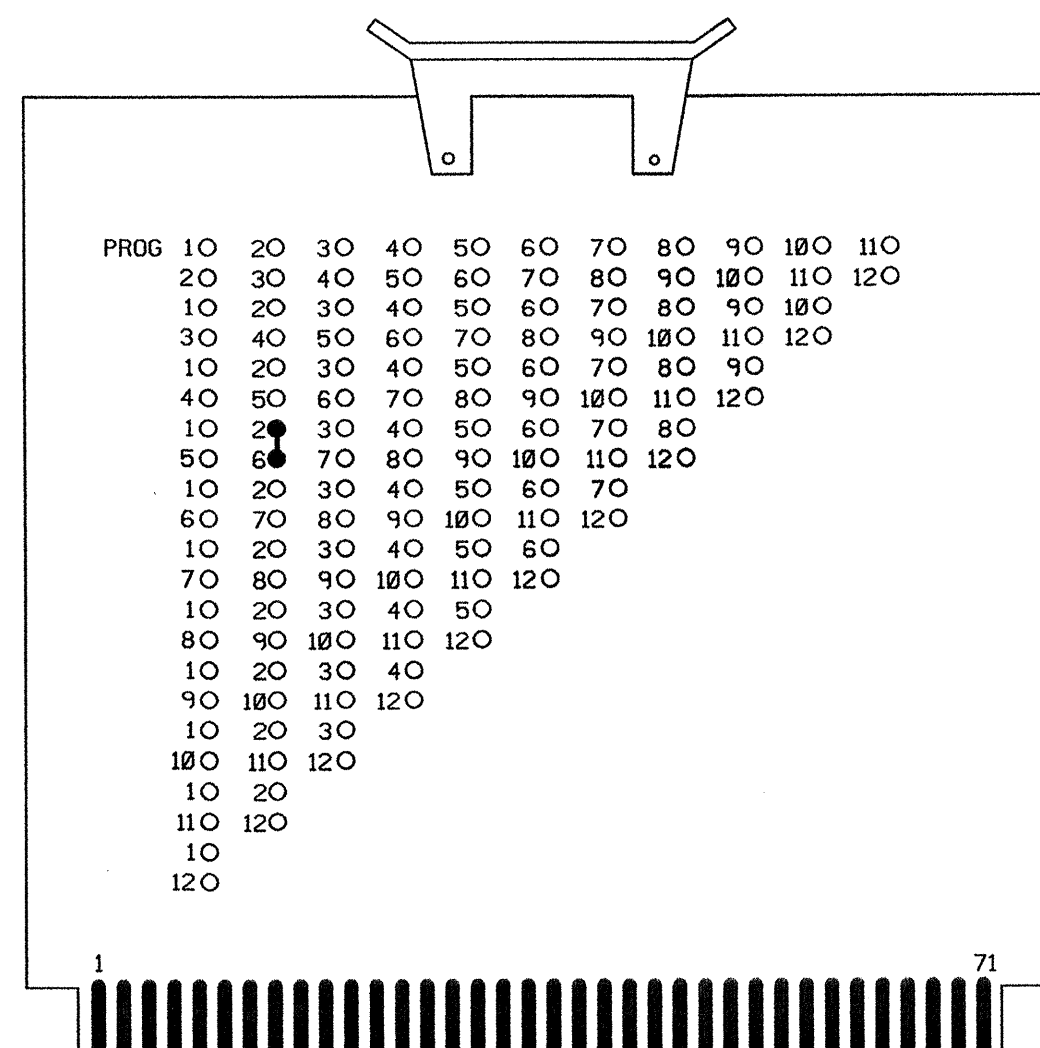
NOTES:

1. TERMINAL DESIGNATIONS SHOWN ARE LOCATED ON THE LOOP PANEL ASSEMBLY EXCEPT FOR PHASE 6 GREEN DRIVER WHICH IS LOCATED ON THE BACK PANEL.
2. DIODE IS VALUED AT 600V PIV, 1 AMP MINIMUM. (RECOMMENDED PART NO. 1N4005)

NEMA CONFLICT-VOLTAGE MONITOR

PROGRAMMING DETAIL

(install jumper as shown below)



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

EQUIPMENT INFORMATION

CONTROLLER.....PEEK TRAFFIC 3000
 CABINETPEEK TRAFFIC 16 POS (DWG NO 8500#9838)
 CABINET MOUNT.....BASE
 LOADBAY POSITIONS.....16
 LOAD SWITCHES USED.....2,4,6
 PHASES USED.....2,4,6
 OLA.....NOT USED
 OLB.....NOT USED
 OLC.....NOT USED
 OLD.....NOT USED

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-0653
 DESIGNED: AUGUST 2004
 SEALED: AUG 16, 2004
 REVISED: TBD

SEPI ENGINEERING GROUP
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ELECTRICAL AND PROGRAMMING DETAILS FOR:
 Prepared for the Offices of:

 122 N. McDowell St., Raleigh, NC 27603

SIGNAL UPGRADE - FINAL DESIGN

US 64 BUS (RALEIGH ST.) AT US 64 BYPASS WB RAMP

DIVISION 04 EDGECOMBE COUNTY ROCKY MOUNT

PLAN DATE: AUGUST 2004 REVIEWED BY: J O DEATON

PREPARED BY: M W YALCH REVIEWED BY:

REVISIONS INIT. DATE

SEAL

 SEAL 07438
 ENGINEER JAMES O. DEATON
 SIGNATURE DATE 8/25/04