

**PEEK TRAFFIC 3000 SERIES CONTROLLER EMERGENCY VEHICLE
PREEMPTION PROGRAMMING DETAIL (EVP 2 - RUN 4)**

(PROGRAM CONTROLLER AS SHOWN BELOW)

STEP 1
NOTE: COMPLETE THE PREEMPT 1 PROGRAMMING ON PAGE 2 BEFORE PROCEEDING WITH THE PROGRAMMING FOR PREEMPT 2.

ENTRY	
1. CONTROLLER	4. PREEMPTION
2. COORDINATION	5. SPECIAL
3. TIME OF DAY	6. UTILITIES

TO VIEW OR ENTER PREEMPTION RUN
ENTER 1-6: 4

TO ERASE ONE PREEMPTION RUN
ENTER 1-6: .

TO ERASE ALL PREEMPTION RUNS
ENTER 99: ..

PREEMPTION RUN 4 MENU

1. PER RUN DATA

2. INTERVAL DATA

3. FLASH PLAN FOR RUN 4

WHEN CHANGING RUN DATA, DISABLE RUN UNDER PER RUN DATA

PER RUN 4 MENU

1. RUN ENABLE, RR, MAX INTVS, LOCK, PRIORITY

2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION

3. MIN ENTRY TIMES, INH DOUBLE CLR O/L

4. VALID, FIXED, TENTHS, PC->YEL, EXIT, DWELL INTVS

5. EXIT CONTROLS

RUN 4 ENABLE, RR, LOCK, PRIORITY VALUE(YES/NO)

RUN ENABLE: Y ⊕
RAILROAD: N
PE INPUT LOCK: Y

OVERVERRIDE UCF: N
GO TO HIGHER PE: N
NEMA PRIORITY: Y

MAX INTERVALS: 3
VALUE(0-32)

USER PRIORITY: 1
VALUE(1-6)

⊕ DENOTES RUN ENABLE MUST BE SET TO 'N' BEFORE PREEMPT DATA CAN BE ENTERED.

STEP 2

PER RUN 4 MENU

1. RUN ENABLE, RR, MAX INTVS, LOCK, PRIORITY

2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION

3. MIN ENTRY TIMES, INH DOUBLE CLR O/L

4. VALID, FIXED, TENTHS, PC->YEL, EXIT, DWELL INTVS

5. EXIT CONTROLS

RUN 4 DURATION, RESERVICE, PE DELAY

DURATION	PREEMPT DELAY	RESERVICE
0	0	0
(0-255 SECS)	(0-255 SECS)	(0-255 SECS)

DURATION TIMER USED AS GAP TIMER: N

STEP 3

PER RUN 4 MENU

1. RUN ENABLE, RR, MAX INTVS, LOCK, PRIORITY

2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION

3. MIN ENTRY TIMES, INH DOUBLE CLR O/L

4. VALID, FIXED, TENTHS, PC->YEL, EXIT, DWELL INTVS

5. EXIT CONTROLS

RUN 4 MINIMUM ENTRY TIMES
INHIBIT DOUBLE CLR O/L ENTERING PE: N

GREEN	YELLOW	RED	PE CLER	O/L YEL
0.0	0.0	0.0	15	0
(0-----25.5 SECS)		(0-255 SECS)	(0-255 SECS)	

STEP 4

PER RUN 4 MENU

1. RUN ENABLE, RR, MAX INTVS, LOCK, PRIORITY

2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION

3. MIN ENTRY TIMES, INH DOUBLE CLR O/L

4. VALID, FIXED, TENTHS, PC->YEL, EXIT, DWELL INTVS

5. EXIT CONTROLS

RUN 4 PER INTERVAL DATA VALUE(YES/NO)

PGDN FOR MORE	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
FUN/INTV	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
VALID	X	X	X													
DWELL	X															
FIXED	X	X	X													
TENTH	X	X	X													

SHIFT - RT->TO SEE-ENTER INTERVALS 17-32

RUN 4 PER INTERVAL DATA VALUE(YES/NO)

FUN/INTV	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
EXIT	X	X	X													
PC->YEL																

SHIFT - RT->TO SEE-ENTER INTERVALS 17-32

STEP 5

PER RUN 4 MENU

1. RUN ENABLE, RR, MAX INTVS, LOCK, PRIORITY

2. TIME BEFORE PE, RUN RESERVICE, RUN DURATION

3. MIN ENTRY TIMES, INH DOUBLE CLR O/L

4. VALID, FIXED, TENTHS, PC->YEL, EXIT, DWELL INTVS

5. EXIT CONTROLS

RUN 4 EXIT CONTROLS

EXIT MODE: 0 = GO TO EXIT PHASES
1 = GO TO NEXT DEMAND
2 = RESUME INTERRUPTED SEQ.

VALUE(YES/NO)	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
FUN/PH	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
PHASES			X				X									
CALLS																

**STEP 6
INTERVAL 1**

1. PER RUN DATA

2. INTERVAL DATA

3. FLASH PLAN FOR RUN 4

WHEN CHANGING RUN DATA, DISABLE RUN UNDER PER RUN DATA

RUN 4 INTERVAL 1 VALID: X DWELL: X
TENTHS: X PC->YEL: . EXIT: X FIXED: X
TIME: 5.0 PH FLASH: 0 PED FLASH: 0
VALUE(0 = R/D, 1 = Y/P, 2 = G/W)

FUN/PH	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
COLOR	.	G														
PED COL																

PGDN FOR OVERLAPS

PGDN FOR PE OUTS

PGDN FOR NEXT INTERVAL

PROGRAMMING CONTINUED AT TOP RIGHT

**STEP 7
INTERVAL 2**

RUN 4 INTERVAL 2 VALID: X DWELL: X
TENTHS: X PC->YEL: . EXIT: X FIXED: X
TIME: 4.0 PH FLASH: 0 PED FLASH: 0
VALUE(0 = R/D, 1 = Y/P, 2 = G/W)

FUN/PH	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
COLOR	.	Y														
PED COL																

PGDN FOR OVERLAPS

PGDN FOR PE OUTS

PGDN FOR NEXT INTERVAL

**STEP 8
INTERVAL 3**

RUN 4 INTERVAL 3 VALID: X DWELL: X
TENTHS: X PC->YEL: . EXIT: X FIXED: X
TIME: 2.0 PH FLASH: 0 PED FLASH: 0
VALUE(0 = R/D, 1 = Y/P, 2 = G/W)

FUN/PH	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
COLOR	.	R														
PED COL																

PGDN FOR OVERLAPS

PGDN FOR PE OUTS

PGDN FOR NEXT INTERVAL

NOTE :

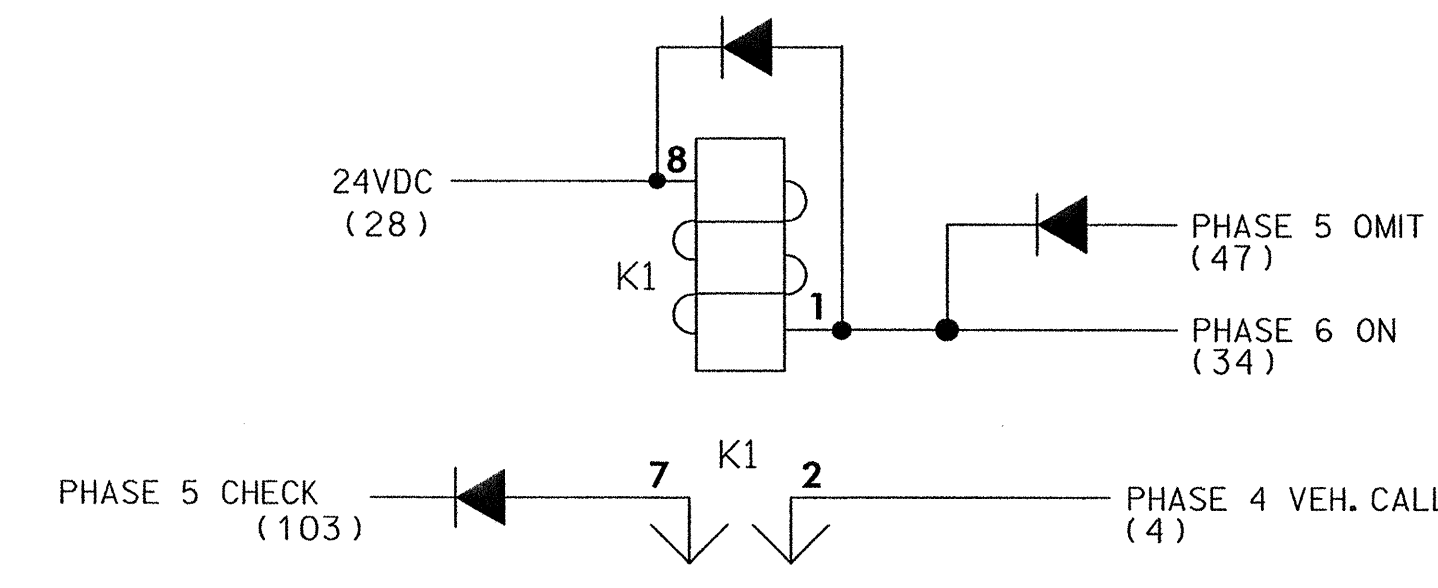
THERE IS NO PROGRAMMING REQUIRED FOR OVERLAPS OR 'PE OUTS' FOR ANY INTERVAL

END OF PROGRAMMING

** NOTE: PROGRAM THE MIN. GREEN AND CLEARANCE INTERVALS TO BE ZERO SECONDS; THIS WILL FORCE THE CONTROLLER TO SATISFY MIN GREEN AND CLEARANCE INTERVAL TIMINGS OF THE ACTIVE PHASE.

BACK-UP PROTECTION WIRING DETAIL

(WIRE AS SHOWN)



NOTES

- RELAY 'K1' IS A SPST WITH A 24VDC COIL. (P&B# KRP3DH OR APPROVED EQUIVALENT)
- ALL DIODES ARE VALUED AT 600V PIV, 1 AMP MINIMUM. (RECOMMENDED PART NO. 1N4005)
- WHEN TRAFFIC CONDITIONS REQUIRE THE CONTROLLER TO BACK UP FROM PHASE 2+6 TO PHASE 5, THIS RELAY LOGIC CIRCUIT WILL FORCE THE CONTROLLER TO CYCLE THROUGH PHASE 4+8. THE CONTROLLER IS NOT ALLOWED TO BACK UP DIRECTLY TO PHASE 5 FROM PHASE 2+6.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-0382
DESIGNED: AUGUST 2004
SEALED: AUG 16, 2004
REVISED: TBD

SIGNAL UPGRADE - FINAL DESIGN

PAGE 3 OF 3

SEPI ENGINEERING GROUP

2300 Rexwoods Drive
Suite 370
Raleigh, NC 27607
Tel:919-789-9977 Fax:789-9591

Prepared for the Offices of:
Traffic Engineering and Safety Services
North Carolina State University
Signal Management Section

122 N. McDowell St., Raleigh, NC 27603

**US 64 BUS (RALEIGH ST.)
AT
STOKES AVENUE**

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

NORTH CAROLINA PROFESSIONAL SEAL 07438

ENGINEER JAMES O. DEATON

SIGNATURE DATE

SIG. INVENTORY NO. 04-0382