

SIGNAL DISPLAY CHART

SIGNAL HEAD	#1		#2		#3		#4		FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
A	G	G	G	G	Y	G	R	R	Y
B	G	Y	G	G	Y	G	R	R	Y
C	R	R	R	G	Y	G	R	R	Y
D	R	R	R	G	Y	G	R	R	Y
E	R	R	R	R	R	R	G	Y	R
F	R	R	R	R	R	R	G	Y	R
G	Y	Y	R	R	R	R	R	R	R
H	Y	Y	R	R	R	R	R	R	R
J	R	R	R	R	R	R	G	Y	R
Y-Y	DW	DW	DW	DW	DW	DW	DW	DW	DW
Z-Z	DW	DW	DW	DW	DW	DW	DW	DW	DW

SIGNAL TIMING

INTERVAL	#1	#2	#3	#4
INITIAL	10	17	10	16
PASSAGE	2.5	3.0	3.0	0
YELLOW	3.1	3.1	3.1	0
RED CLEAR	1.9	1.9	1.9	0
MAX I	16	27	16	27
MAX II	16	27	16	27
WALK	-	7	-	7
PED CLEAR	-	10	-	10
RECALL	NONE	MIN	NONE	NONE
MEMORY	OFF	ON	OFF	OFF

ESTIMATED QUANTITIES

ITEM	QUANT	UNIT	DESCRIPTION
202	6.1	SQ. METER	WALK REMOVED, AS PER PLAN
608	6.1	SQ. METER	100mm CONCRETE WALK
625	87.5	METER	CONDUIT, 51 mm, 713.04
625	2.8	METER	CONDUIT, 102 mm, 713.04
625	33.9	METER	CONDUIT, JACKED OR DRILLED, SIZE: 76 mm
625	90.3	METER	TRENCH
625	4	EACH	PULLBOX, 713.08, 450 mm
625	1	EACH	PULLBOX, 713.08, 600 mm
625	1	EACH	PULLBOX, MISC.: 330 mm X 600 mm, AS PER PLAN
625	1	EACH	PULLBOX, REMOVED
625	6	EACH	GROUND ROD
630	2	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN
630	.72	SQ. METER	SIGN, FLAT SHEET, TYPE G
632	6	EACH	VEHICULAR SIGNAL HEAD, 3-SECT., 300 mm LENS, 1-WAY, AS PER PLAN
632	1	EACH	VEHICULAR SIGNAL HEAD, 5-SECT., 300 mm LENS, 1-WAY, AS PER PLAN
632	1	EACH	VEHICULAR SIGNAL HEAD, 3-SECT., 300 mm LENS, 2-WAY, AS PER PLAN
632	6	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN
632	9	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	6	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632	6	EACH	DETECTOR LOOP
632	1	EACH	PHONE DROP
632	1	EACH	CONTROLLER MASTER TRAFFIC RESPONSIVE, AS PER PLAN
632	2	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	4	EACH	LOOP DETECTOR UNIT, DELAY & EXTENSION TYPE, AS PER PLAN
632	42.3	METER	MESSENGER WIRE, 7 STRAND, 6 mm DIAMETER WITH ACCESSORIES
632	185.7	METER	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
632	217.4	METER	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	140.8	METER	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	185.7	METER	SIGNAL CABLE, MISC.: PREEMPT DETECTOR CABLE
632	2	EACH	SIGNAL SUPPORT FOUNDATION
632	3	EACH	PEDESTAL FOUNDATION
632	477.2	METER	LOOP DETECTOR LEAD-IN CABLE
632	14.7	METER	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
632	13.6	METER	SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG
632	1	EACH	CONDUIT RISER, 51mm DIAMETER
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 4, AS PER PLAN
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 12, AS PER PLAN
632	3	EACH	PEDESTAL, 2.4M, TRANSFORMER BASE, AS PER PLAN
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
633	1	EACH	CONTROLLER, ACTUATED, 8 PHASE, SOLID-STATE DIGITAL MICROPROCESSOR, AS PER PLAN
633	1.4	CJ. METER	CONCRETE FOR CABINET FOUNDATION
633	1.04	SQ. METER	CONTROLLER WORK PAD
633	5	EACH	CONTROLLER ITEM, MISC.: PREEMPT DETECTORS
633	2	EACH	CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR
633	5	EACH	CONTROLLER ITEM, MISC.: CONFIRMATION LIGHT

COORDINATION TIMING

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	95 SEC.	100 SEC.	95 SEC.
PHASE 1 SPLIT	22%	21%	21%
PHASE 2 SPLIT	28%	32%	32%
PHASE 3 SPLIT	22%	21%	21%
PHASE 4 SPLIT	28%	26%	26%
PERMISSIVE	5%	5%	5%
OFFSET	100%	100%	100%
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30 AM TO 9:00 AM MON-SAT	3:30 PM TO 6:30 PM MON-SAT

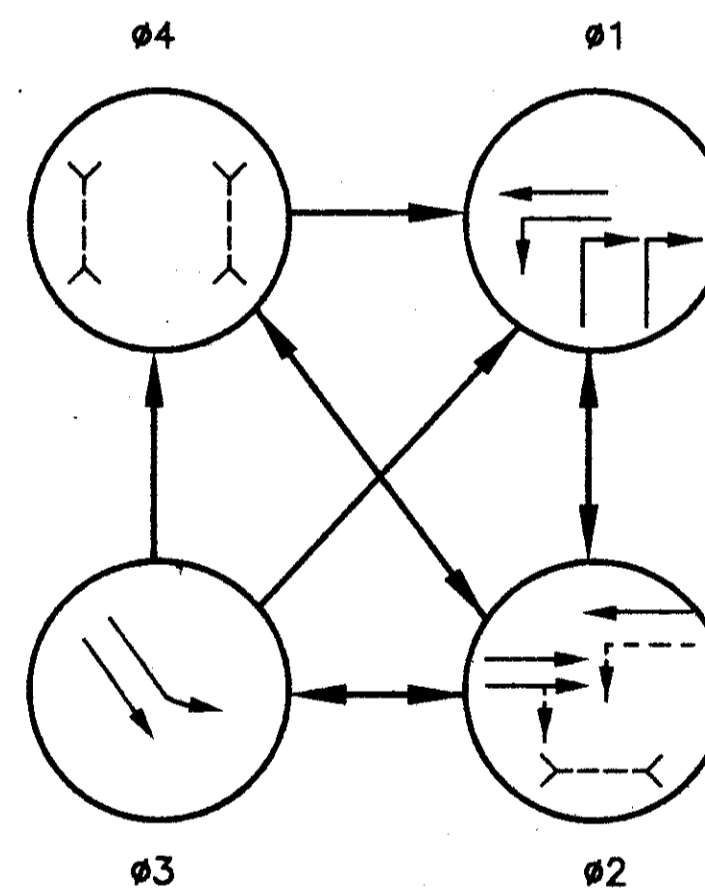
NOTES:

1. PHASE SPLITS SHALL INCLUDE ALL GREEN PLUS YELLOW & ALL RED
2. PERMISSIVES SHALL START AT THE ZERO POINT OF THE CYCLE
3. OFFSETS SHALL BE REFERENCED TO THE BEGINNING OF PHASE 2 YELLOW

LOOP DETECTOR CHART

LOOP #	SIZE	# TURNS	MODE	DELAY	AMP #	PHASE
L1	1.8 m x 11.0 m	2-4-2	PRESENCE		1	1
L2	1.8 m x 11.0 m	2	PRESENCE		2	1
L3	1.8 m x 11.0 m	2-4-2	PRESENCE		3	3
L4	1.8 m x 11.0 m	2-4-2	PRESENCE		4	3
S1	1.8 m x 1.8 m	3	PRESENCE		5	SYSTEM
S2	1.8 m x 1.8 m	3	PRESENCE		6	SYSTEM

PHASING DIAGRAM



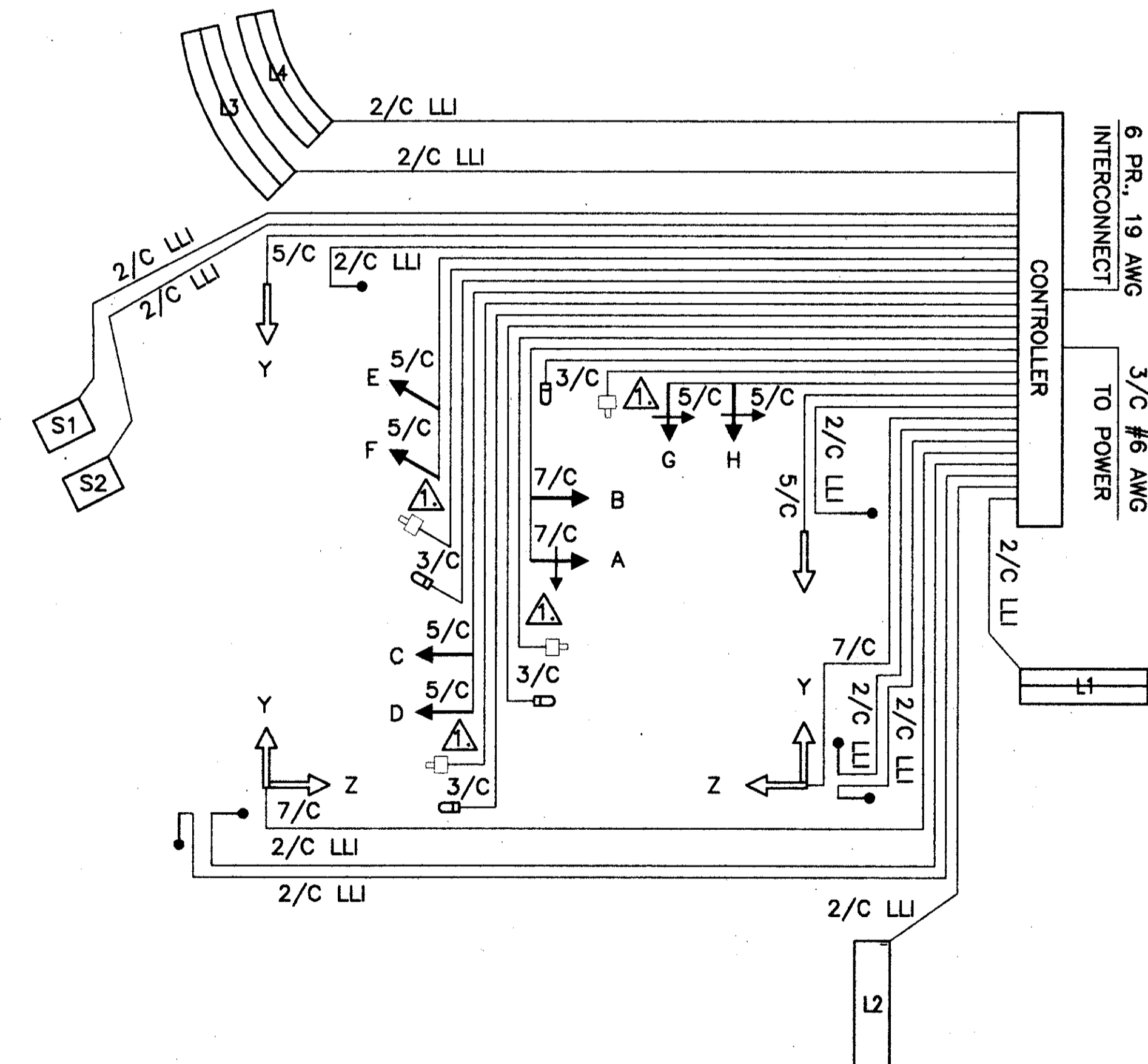
PREEMPT CHANNELS

- CHANNEL 1 = #2 (EASTBOUND ONLY) CHANNEL 3 = #4 (NORTHBOUND ONLY)
 CHANNEL 2 = #2 (WESTBOUND ONLY) CHANNEL 4 = #4 (SOUTHBOUND ONLY)

PREEMPT NOTES:

1. ACTIVE WALK INDICATIONS SHALL IMMEDIATELY GO TO "DON'T WALK" UPON RECEIVING PREEMPTION SIGNAL.
2. IF PHASE ACTIVE CONFLICTS WITH PREEMPT PHASE CALLED, IT SHALL IMMEDIATELY TIME ITS YELLOW AND ALL RED CLEARANCES.
3. IF ACTIVE PHASE = THE PREEMPT PHASE, THEN THE PHASE SHALL HOLD FOR THE DURATION OF THE PREEMPT SIGNAL.
4. AFTER RELEASE FROM PREEMPT, YELLOW AND ALL RED CLEARANCE SHALL BE DISPLAYED AND RETURN PHASE SHALL BE #2.
5. IF PREEMPT PHASES = RETURN PHASE #2 THEN YELLOW AND ALL RED CLEARANCE AFTER PREEMPT SHALL NOT BE DISPLAYED.

WIRING DIAGRAM



SYMBOL

- = PREEMPT DETECTOR
- = CONFIRMATION LIGHT
- △ = PREEMPT DETECTOR CABLE