

SIGNAL DISPLAY CHART

SIGNAL HEAD	#2				#4				FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
A	G	G	Y	R	R	R	R	R	Y
B	G	G	Y	R	R	R	R	R	Y
C	G	G	Y	R	R	R	R	R	Y
D	G	G	Y	R	R	R	R	R	Y
E	R	R	R	R	G	G	Y	R	R
F	R	R	R	R	G	G	Y	R	R
G	R	R	R	R	G	G	Y	R	R
H	R	R	R	R	G	G	Y	R	R
W-W	DW	DW	DW	DW	W	FDW	DW	DW	DARK
X-X	W	FDW	DW	DW	DW	DW	DW	DW	DARK
Y-Y	DW	DW	DW	DW	W	FDW	DW	DW	DARK
Z-Z	W	FDW	DW	DW	DW	DW	DW	DW	DARK

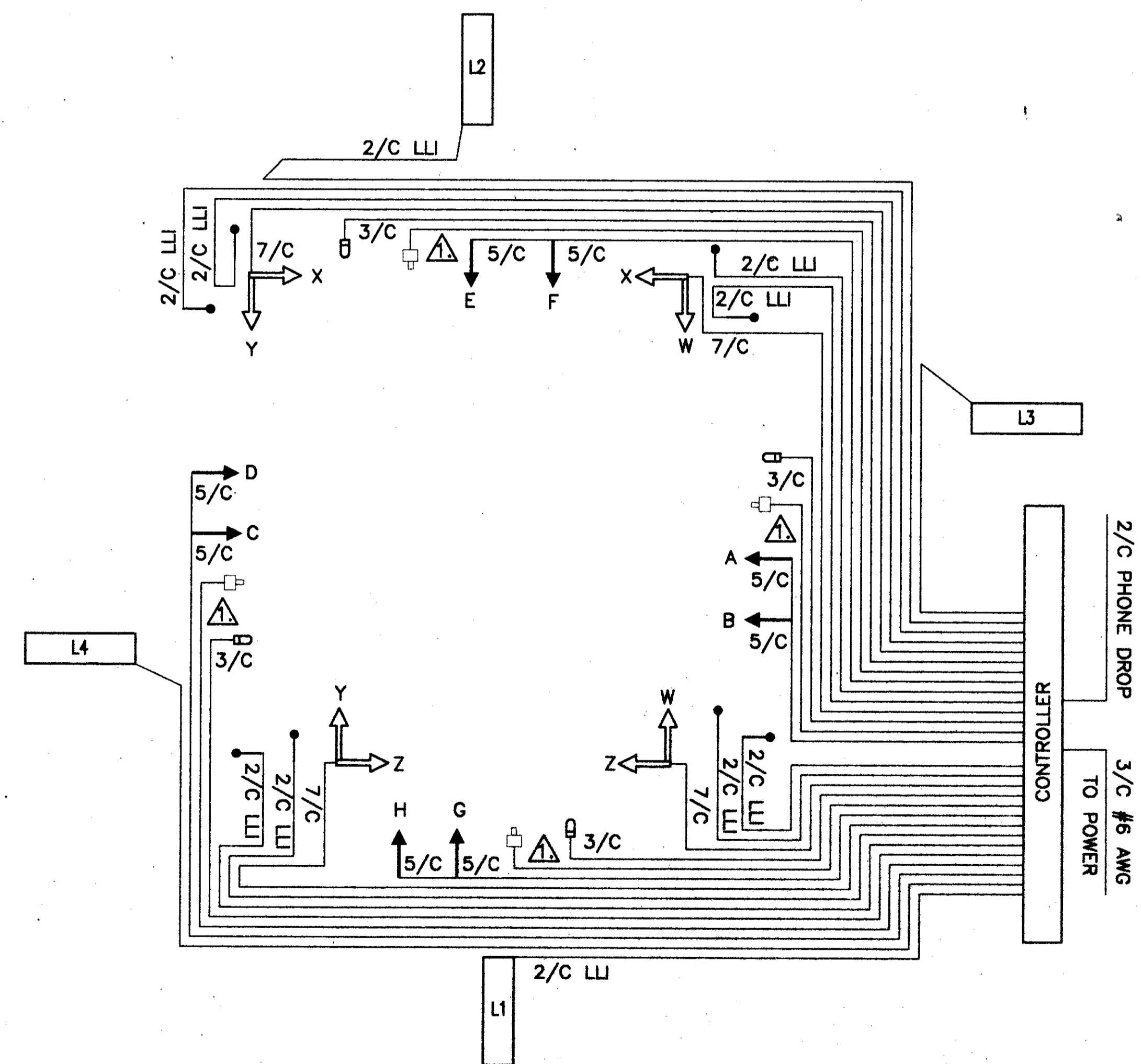
SIGNAL TIMING

INTERVAL	#2	#4
INITIAL	20	7
PASSAGE	3.0	3.0
YELLOW	3.2	3.1
RED CLEAR	1.4	1.2
MAX I	60	30
MAX II	60	30
WALK	12	12
PED CLEAR	8	10
RECALL	MIN	NONE
MEMORY	ON	OFF

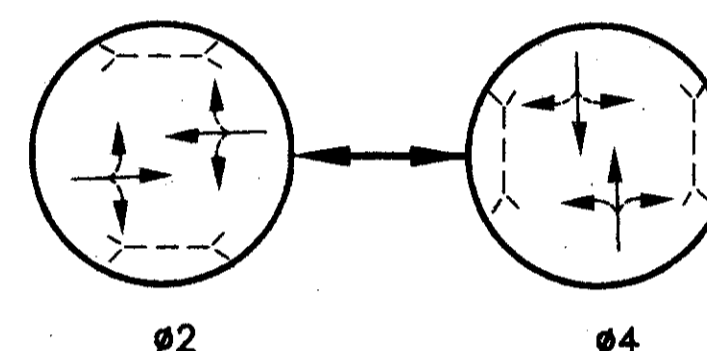
LOOP DETECTOR CHART

LOOP #	SIZE	# TURNS	MODE	DELAY	AMP #	PHASE
L1	1.8m X 12.2m	2	PRESENCE	8	1	4
L2	1.8m X 9.1m	2	PRESENCE	8	2	4
L3	1.8m X 9.1m	2	PRESENCE	8	3	2
L4	1.8m X 9.1m	2	PRESENCE	8	4	2

WIRING DIAGRAM



PHASING DIAGRAM



ESTIMATED QUANTITIES

ITEM	QUANT	UNIT	DESCRIPTION
625	15.3	METER	CONDUIT, 51 mm, 713.04
625	1.7	METER	CONDUIT, 102 mm, 713.04
625	38.6	METER	CONDUIT, JACKED OR DRILLED, SIZE: 76 mm
625	17	METER	TRENCH
625	4	EACH	PULLBOX, 713.08, 450 mm
625	5	EACH	GROUND ROD
632	8	EACH	VEHICULAR SIGNAL HEAD, 3-SECT., 300 mm LENS, 1-WAY, AS PER PLAN
632	8	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN
632	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	4	EACH	DETECTOR LOOP
632	8	EACH	PEDESTRIAN PUSHBUTTON, AS PER PLAN
632	4	EACH	LOOP DETECTOR UNIT, DELAY & EXTENSION TYPE, AS PER PLAN
632	150.5	METER	SIGNAL CABLE, 3 CONDUCTOR, NO. 14 AWG
632	167.3	METER	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	120	METER	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	150.5	METER	SIGNAL CABLE, MISC.: PREEMPT DETECTOR CABLE
632	4	EACH	SIGNAL SUPPORT FOUNDATION
632	319.2	METER	LOOP DETECTOR LEAD-IN CABLE
632	17	METER	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG
632	2	EACH	CONDUIT RISER, 51mm DIAMETER
632	4	EACH	SIGNAL SUPPORT, TYPE TC-81.20M, DES. 1
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION
633	1	EACH	CONTROLLER ACTIVATED 4-PHASE, SOLID STATE MICROPROCESSOR, AS PER PLAN
633	.72	CU. METER	CONCRETE FOR CABINET FOUNDATION
633	.80	SQ. METER	CONTROLLER WORK PAD
633	4	EACH	CONTROLLER ITEM, MISC.: PREEMPT DETECTORS
633	1	EACH	CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR
633	4	EACH	CONTROLLER ITEM, MISC.: CONFIRMATION LIGHT
642	10	METER	STOP LINE, TYPE 2

PREEMPT CHANNELS

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

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

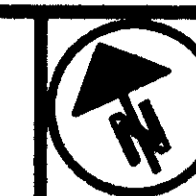
PREEMPT NOTES:

NOTE:

ALL PUSHBUTTONS SHALL BE WIRED WITH 2 CONDUCTOR LOOP LEAD-IN CABLE.

SYMBOL

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



CALCULATED

CHECKED

TRAFFIC CONTROL PLAN
 ST. CLAIR STREET & HINE STREET

LAKE COUNTY
 LAK-20-22.916/VARIOUS