

NOTES:  
 1. ALL ANGLES MEASURED CLOCKWISE.  
 2. BASE PLATE IS ORIENTED SQUARE TO MAST ARM A (LARGEST ARM) EVEN IF SUPPORT HAS TWO MAST ARMS.

SUPPORT NO.	SIGNAL SUPPORT		FOUNDATION	L	L 1	L 2	L 3	X 1	ORIENTATION ANGLES (DEG.) FROM MAST ARM "A"							
	TC-81.20	TC-12.30							MAST ARM A ANGLE (DEG.)	MAST ARM B	PEDESTRIAN SIGNALS	PEDESTRIAN PUSH BUTTONS	POWER SERVICE	CONTROLLER	LUMINAIRE BRACKET	HANDHOLE
P1	PED		132+02 47'R					0	0	0					180	
P2	11	11	132+06 46'L	42	19	31	41	38	0	0	0				180	
P3	4	4	132+85 45'L	37	26	36		90	180	180	180	180	180	180		
P4	12	12	132+86 48'R	45	20	33	44	41	0	0	0				180	

**ORIENTATION ANGLE CHART**

LOOP #	SIZE	# TURNS	MODE	DELAY	AMP	# PHASE
L1	6' x 12' x 30'	2-4-2	PRESENCE	8	1	4
L2	6' x 30'	2	PRESENCE	0	2	1
L3	6' x 30'	2	PRESENCE	0	3	5
L4	6' x 6'	3	PRESENCE	0	4	SYSTEM
L5	6' x 6'	3	PRESENCE	0	5	SYSTEM
L6	6' x 6'	3	PRESENCE	0	6	SYSTEM

**LOOP DETECTOR CHART**

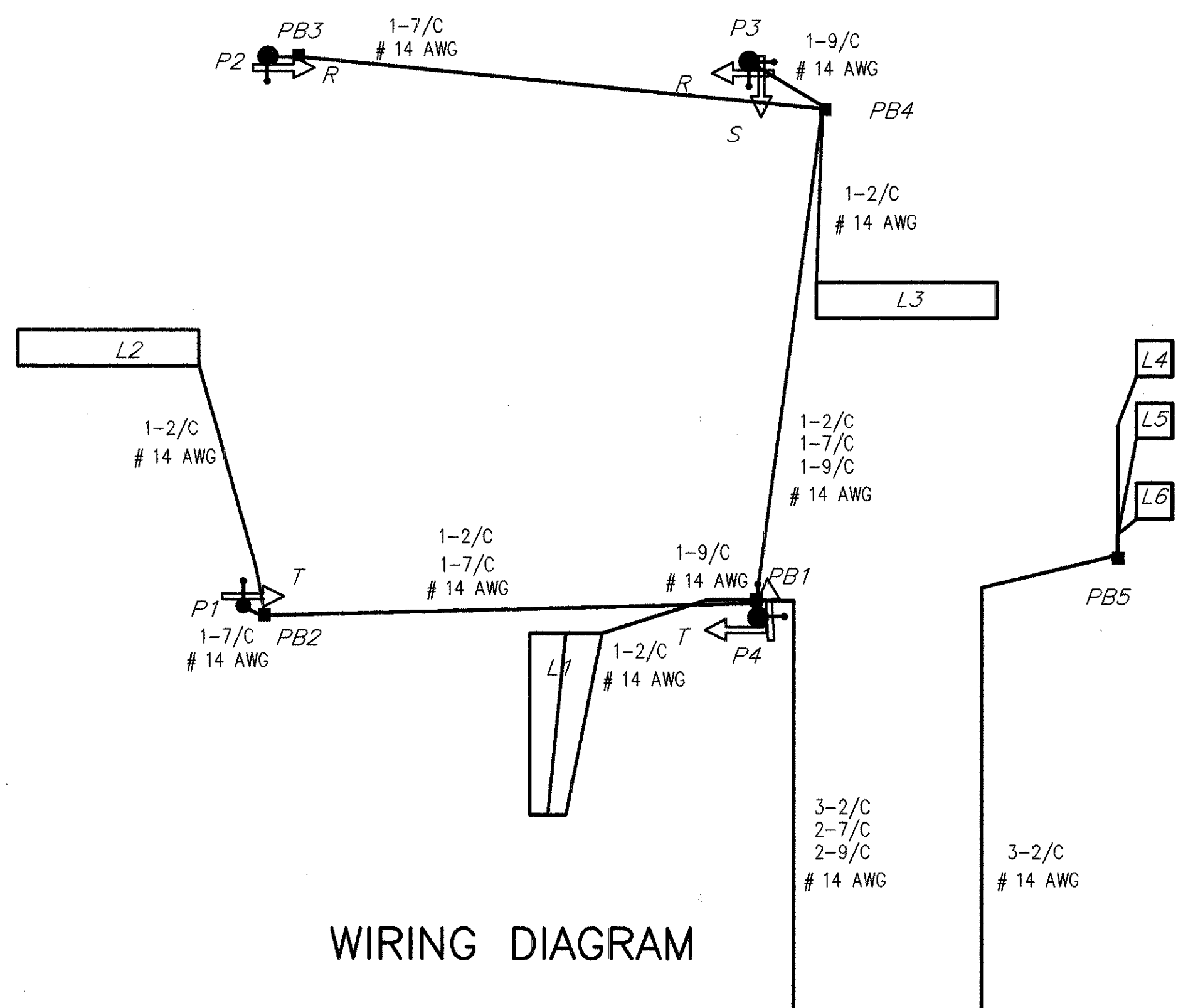
INTERVAL	ø1	ø2	ø4	ø5	ø6
MINIMUM GREEN	7	26	8	7	26
PED WALK		7	7		7
PED CLEARANCE		19	18		19
GREEN EXTENSION	2.5	3.0	3.0	2.5	3.0
MAXIMUM GREEN	13	47	25	8	47
YELLOW CLEARANCE	3.6	3.6	3.6	3.6	3.6
ALL RED CLEARANCE	1.4	1.4	1.6	1.4	1.4
RECALL	NONE	PED	NONE	NONE	PED

**SIGNAL TIMING**

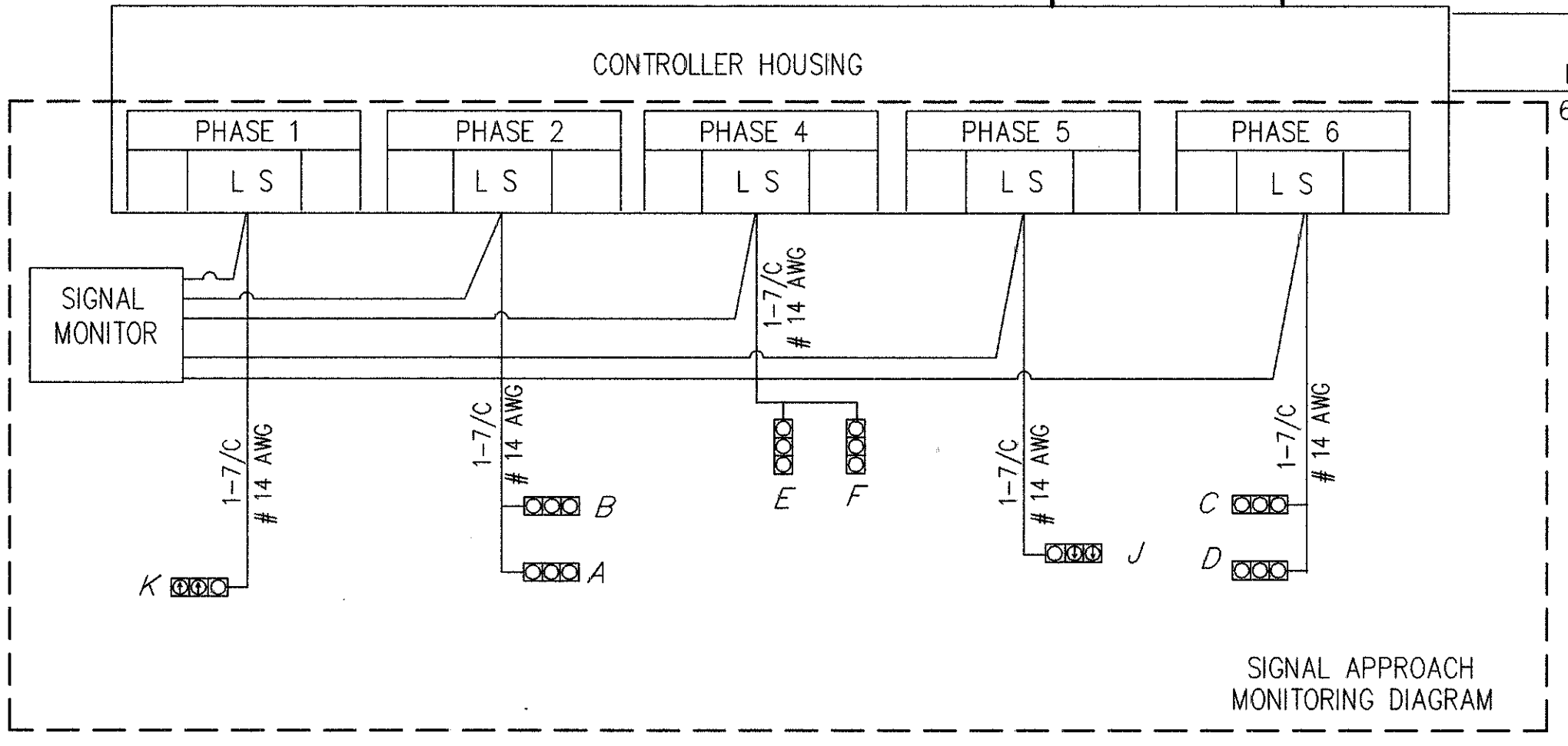
- 1. REMAINS ← IF ø2 & ø5 NEXT
- 2. REMAINS ← IF ø1 & ø6 NEXT

SIGNAL HEAD	ø1 & ø5		ø1 & ø6		ø2 & ø5		ø2 & ø6		ø4		FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
A	R	R	R	R	G	G	G	G	R	R	Y
B	R	R	R	R	G	G	G	G	Y	R	Y
C	R	R	R	R	G	G	R	R	R	R	Y
D	R	R	R	R	G	G	R	R	R	R	Y
E	R	R	R	R	R	R	R	R	R	R	R
F	R	R	R	R	R	R	R	R	R	R	R
J	←	←	←	←	←	←	←	←	←	←	R
K	←	←	←	←	R	R	R	R	R	R	R
R-R	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DARK
S-S	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
T-T	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DARK

**SIGNAL DISPLAY CHART**



**WIRING DIAGRAM**



**SIGNAL APPROACH MONITORING DIAGRAM**

- 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

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	100	120	110
PHASE 1 SPLIT	22 %	35 %	13 %
PHASE 2 SPLIT	50 %	40 %	47 %
PHASE 4 SPLIT	28 %	25 %	40 %
PHASE 5 SPLIT	28 %	31 %	30 %
PHASE 6 SPLIT	44 %	44 %	30 %
PERMISSIVE	5 %	5 %	5 %
OFFSET	0 %	0 %	0 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 9:00AM MON-SAT	3:30PM TO 6:30PM MON-SAT

**COORDINATION TIMING**

ITEM	TOTAL	UNIT	DESCRIPTION
202	50	SQ FT	WALK REMOVED
608	50	SQ FT	4" CONCRETE WALK
625	5	EACH	GROUND ROD
625	5	EACH	PULLBOX, MISC. AS PER PLAN
625	163	LIN FT	CONDUIT, 2", 713.04
625	8	LIN FT	CONDUIT, 4", 713.04
625	252	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	35	LIN FT	TRENCH
625	68	LIN FT	TRENCH IN PAVED AREA, TYPE "B"
630	2	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN
630	10	SQ FT	SIGN, FLAT SHEET, TYPE G
632	8	EACH	VEHICULAR SIGNAL HEAD, 3 SECT., 12" LENS, 1-WAY, AS PER PLAN
632	6	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2
632	6	EACH	PEDESTRIAN PUSHBUTTON
632	5	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	1	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	8.63	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATION
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 4, WITH 37' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 11, WITH 42' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12, WITH 45' ARM
632	1	EACH	PEDESTAL, 8", TRANSFORMER BASE
632	3	EACH	CABLE SUPPORT ASSEMBLY
632	459	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	977	LIN FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	233	LIN FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	1160	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	469	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	108	LIN FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	1	EACH	CONDUIT RISER, 1 1/2"
632	8	EACH	COVERING OF VEHICULAR SIGNAL HEAD
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
633	10.4	SQ FT	CONTROLLER WORK PAD
633	1.85	CU YD	CONCRETE FOR CABINET FOUNDATION
633	1	EACH	CONTROLLER, ACTUATED, 8 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN