

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					ORIENTATION ANGLES (DEG.) FROM MAST ARM "A"										
	TC-81.20	TC-12.30	STATION	OFFSET	L	L 1	L 2	L 3	X 1	MAST ARM A ANGLE (DEG.)	MAST ARM B	PEDESTRIAN SIGNALS	PEDESTRIAN PUSH BUTTONS	POWER SERVICE	CONTROLLER	LUMINAIRE BRACKET	HANDHOLE	CABLE ENTRANCE (12" FROM TOP)
	TC-81.20	TC-12.30	ARM DESIGN NO.	POLE HEIGHT (FT.)	(FT.)	(FT.)	(FT.)	(FT.)	(FT.)	(DEG.)	(DEG.)	(DEG.)	(DEG.)	(DEG.)	(DEG.)	(DEG.)	(DEG.)	(DEG.)
P1 PED			224+65	26'L						0		180	180				180	
P2 2	2	20'	224+29	28'R	25	14	24			0							180	
P3 1	1	20'	223+55	27'R	20	9	19			90	180	180					180	
P4 12	11	20'	223+58	32'L	39	24	38			270	90	90	180	180			180	
	2				29	18	28			90								

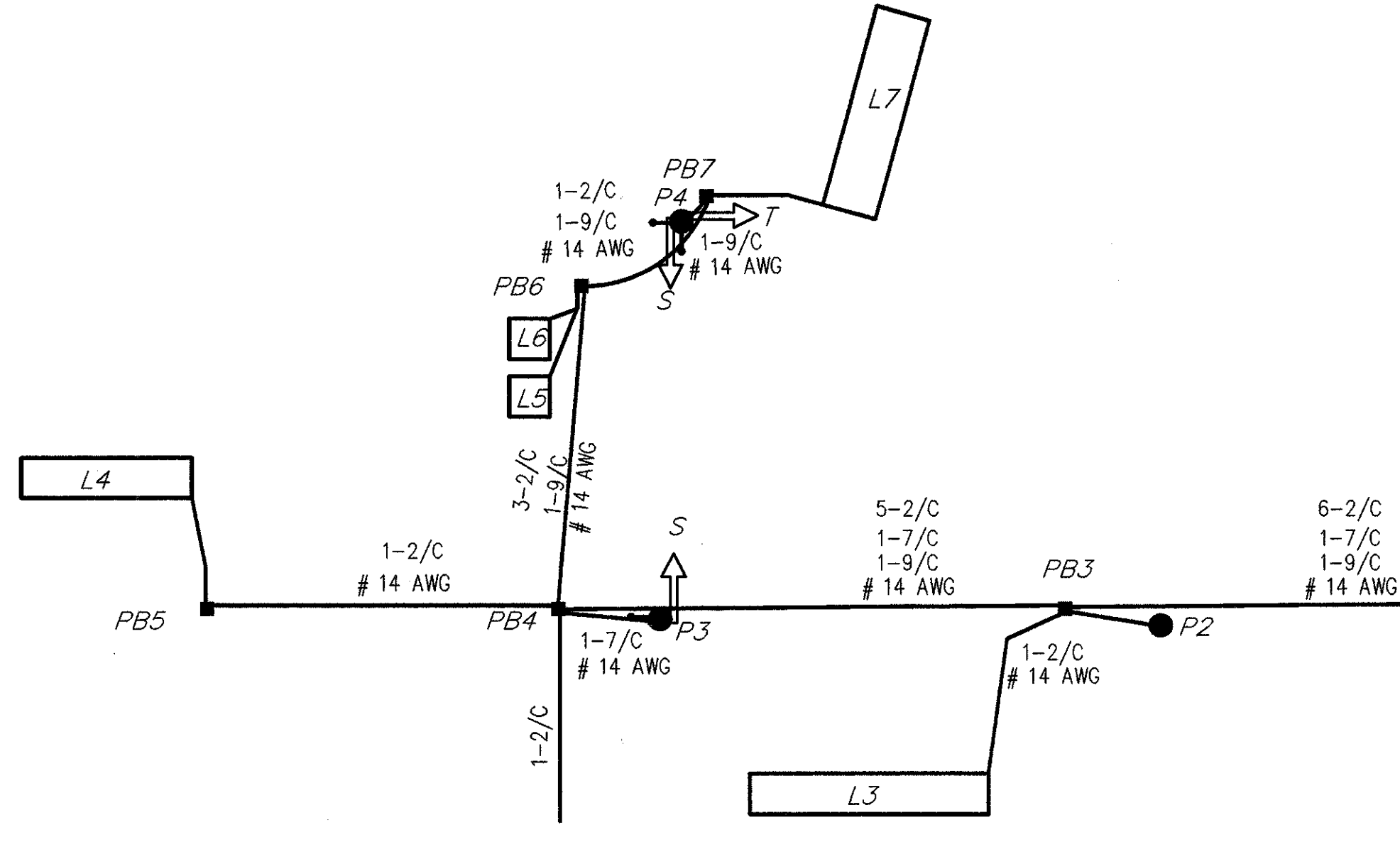
ORIENTATION ANGLE CHART

FUNCTION	ø1	ø2	ø4
MINIMUM GREEN	7	28	8
PED WALK	-	7	7
PED CLEARANCE	-	21	10
GREEN EXTENSION	-	-	3.5
MAXIMUM GREEN	7	45	25
YELLOW CLEARANCE	3.6	3.6	3.1
ALL RED CLEARANCE	1.9	1.9	1.4
RECALL	NONE	PED	NONE

SIGNAL TIMING

SIGNAL HEAD	ø1		ø2		ø4		FLASH	PREEMPT			
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR		R/W	CLEAR	CLEAR	
A	R	R	R	G	G	Y	R	R	R	R	R
B	R	R	R	G	G	Y	R	R	R	R	R
C	RG	RG	G	G	G	Y	R	R	R	R	R
D	G	G	G	G	G	Y	R	R	R	R	R
E	R	R	R	R	R	R	R	G	G	Y	R
F	R	R	R	R	R	R	R	G	G	Y	R
G	R	R	R	R	R	R	R	G	G	Y	R
H	R	R	R	R	R	R	R	G	G	Y	R
S-S	DW	DW	DW	DW	DW	DW	DW	FDW	DW	DW	DW
T-T	DW	DW	DW	DW	DW	DW	DW	FDW	DW	DW	DW

SIGNAL DISPLAY CHART



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	85	100	120
PHASE 1 SPLIT	15 %	12 %	10 %
PHASE 2 SPLIT	69 %	75 %	57 %
PHASE 4 SPLIT	16 %	13 %	33 %
PERMISSIVE	10 %	10 %	10 %
OFFSET	31 %	41 %	80 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 9:00AM MON-SAT	3:30PM TO 6:30PM MON-SAT

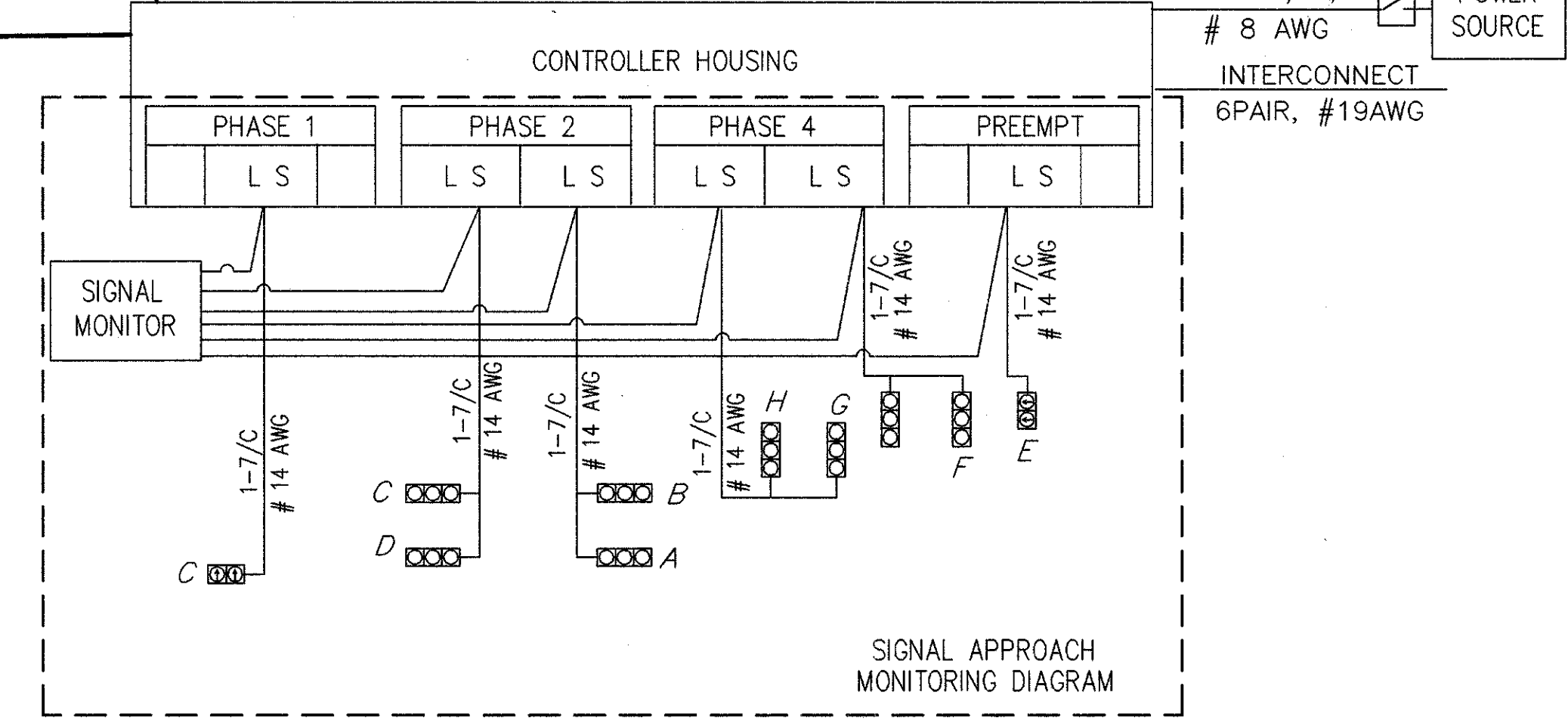
COORDINATION TIMING

PREEMPT PHASE SIGNAL TIMING NOTE:

1. SET MINIMUM GREEN TO 60 SECONDS
2. YELLOW CLEARANCE AFTER PREEMPT SHALL BE 3.1 SECONDS
3. ALL-RED CLEARANCE AFTER PREEMPT SHALL BE 1.4 SECONDS
4. RETURN PHASE SHALL BE ø 2

LOOP #	SIZE	# TURNS	MODE	DELAY	UNIT #	PHASE
L1	6' x 6'	3	PRESENCE		1	SYSTEM
L2	6' x 6'	3	PRESENCE		2	SYSTEM
L3	35' x 6'	2	PRESENCE		3	4
L4	6' x 25'	2	PRESENCE	8	4	1
L5	6' x 6'	3	PRESENCE		5	SYSTEM
L6	6' x 6'	3	PRESENCE		6	SYSTEM
L7	8' x 30'	2	PRESENCE	8	7	4

LOOP DETECTOR CHART



ITEM	TOTAL	UNIT	DESCRIPTION
202	27	LIN FT.	CURB REMOVED
202	185	SQ. FT.	WALK REMOVED
608	77	SQ. FT.	CURB RAMP TYPE 1
608	25	SQ. FT.	CURB RAMP TYPE 2
608	205	SQ. FT.	4" CONCRETE WALK
625	5	EACH	GROUND ROD
625	7	EACH	PULLBOX, MISC. AS PER PLAN
625	231	LIN FT.	CONDUIT, 2", 713.04
625	34	LIN FT.	CONDUIT, 3", 713.04
625	175	LIN FT.	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	170	LIN FT.	TRENCH
625	31	LIN FT.	TRENCH IN PAVED AREA, TYPE "B"
632	6	EACH	VEHICULAR SIGNAL HEAD, 3 SECT., 12" LENS, 1-WAY, AS PER PLAN
632	2	EACH	VEHICULAR SIGNAL HEAD, 5 SECT., 12" LENS, 1-WAY, AS PER PLAN
632	4	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2
632	4	EACH	PEDESTRIAN PUSHBUTTON
632	5	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	2	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	6.27	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATION
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 1, WITH 20' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 2, WITH 25' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12 WITH MAST ARMS
			TYPE TC-81.20, DES. 11, 39' AND TYPE TC-81.20, DES. 2, 29'
632	1	EACH	PEDESTAL, 8", TRANSFORMER BASE
632	3	EACH	CABLE SUPPORT ASSEMBLY
632	382	LIN FT.	LOOP DETECTOR PAVEMENT CUTTING
632	1158	LIN FT.	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	232	LIN FT.	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	1016	LIN FT.	LOOP DETECTOR WIRE, TYPE E
632	836	LIN FT.	LOOP DETECTOR LEAD-IN CABLE
632	50	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	8.33	SQ. FT.	CONTROLLER WORK PAD
633	0.99	CU YD	CONCRETE FOR CABINET FOUNDATION
633	1	EACH	CONTROLLER, ACTUATED, 4 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN
633	1	EACH	PREEMPTION