

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						ORIENTATION ANGLES (DEG.) FROM MAST ARM "A"											
	TC-81.20		TC-12.30															
	POLE DESIGN NO.	ARM DESIGN NO.	POLE HEIGHT (FT)	FOUNDATION	L	L1	L2	L3	X1	MAST ARM A ANGLE (DEG.)	MAST ARM B	PEDESTRIAN SIGNALS	PEDESTRIAN PUSH BUTTONS	POWER SERVICE	CONTROLLER	LUMINAIRE BRACKET	HANDHOLE	CABLE ENTRANCE (12" FROM TOP)
P1	12	11	20'	193+68	29'R	44	33	43		270	90	90					180	
P2	PED		8'	192+99	30'R	24	13	23			0	0	270	270			180	
P3	12	11	20'	193+08	23'L	38	27	37		270	180	180					180	
		1				18	7	17		90								

ORIENTATION ANGLE CHART

FUNCTION	Ø2	Ø4
MINIMUM GREEN	20	8
PED WALK	7	7
PED CLEARANCE	15	10
GREEN EXTENSION	-	3.5
MAXIMUM GREEN	55	25
YELLOW CLEARANCE	3.6	3.1
ALL RED CLEARANCE	1.4	1.9
RECALL	PED	NONE

SIGNAL TIMING

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 2 SPLIT	85 %	86 %	79 %
PHASE 4 SPLIT	15 %	14 %	21 %
PERMISSIVE	15 %	15 %	15 %
OFFSET	40 %	19 %	29 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 9:00AM MON-SAT	3:30PM TO 6:30PM MON-SAT

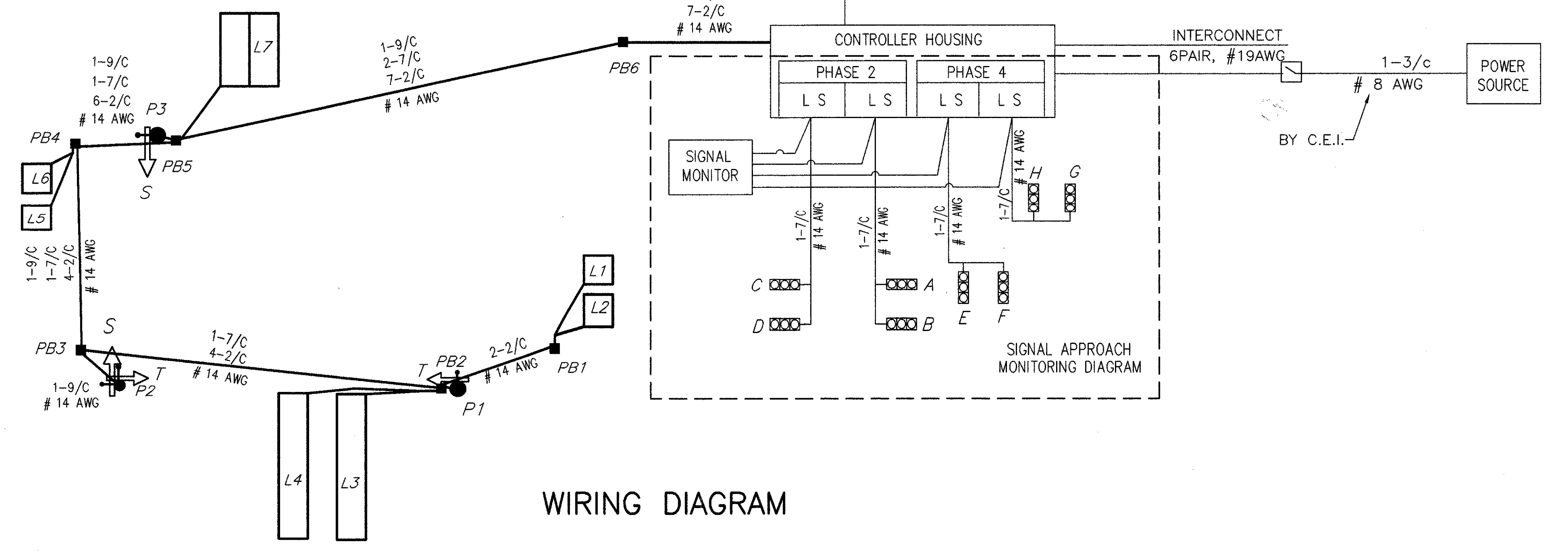
COORDINATION TIMING

SIGNAL HEAD	Ø2				Ø4				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
S-S	DW	DW	DW	DW	W	FDW	DW	DW	DARK
T-T	W	FDW	DW	DW	DW	DW	DW	DW	DARK

SIGNAL DISPLAY CHART

LOOP #	SIZE	# TURNS	MODE	DELAY	UNIT	# PHASE
L1	6' x 6'	3	PRESENCE	0	1	SYSTEM
L2	6' x 6'	3	PRESENCE	0	2	SYSTEM
L3	6' x 30'	2	PRESENCE	8	3	4
L4	6' x 30'	2	PRESENCE	0	4	4
L5	6' x 6'	3	PRESENCE	0	5	SYSTEM
L6	6' x 6'	3	PRESENCE	0	6	SYSTEM
L7	12' x 15'	2-4-2	PRESENCE	8	7	4

LOOP DETECTOR CHART



WIRING DIAGRAM

ITEM	TOTAL	UNIT	DESCRIPTION
202	5	LIN FT	CURB REMOVED
202	410	SQ FT	WALK REMOVED
608	430	SQ. FT.	4" CONCRETE WALK
608	25	SQ FT	CURB RAMP, TYPE 2
625	4	EACH	GROUND ROD
625	6	EACH	PULLBOX, MISC; AS PER PLAN
625	159	LIN FT	CONDUIT, 2", 713.04
625	61	LIN FT	CONDUIT, 3", 713.04
625	118	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	179	LIN FT	TRENCH
625	41	LIN FT	TRENCH IN PAVED AREAS, TYPE "B"
632	8	EACH	VEHICULAR SIGNAL HEAD, 3 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	6.23	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATION
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12 WITH MAST ARMS
			TYPE TC-81.20, DES. 11, 38" AND TYPE TC-81.20, DES. 1, 18"
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12 WITH MAST ARMS
			TYPE TC-81.20, DES. 11, 44" AND TYPE TC-81.20, DES. 1, 24"
632	1	EACH	PEDESTAL, 8', TRANSFORMER BASE
632	2	EACH	CABLE SUPPORT ASSEMBLY
632	395	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	1201	LIN FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	171	LIN FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	1018	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	1195	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	123	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