

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	L 4	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)
P1	PED		229+69	24'R							0	180	180					180	
P2	PED		228+73	29'R							0	90	90					180	
P3	PED		229+02	23'L							0							180	
P4	12	11	229+15	28'L	42	11	21	31	41		0							180	
		3			32	21	31				270								

ORIENTATION ANGLE CHART

FUNCTION	Ø2	Ø4
MINIMUM GREEN	23	8
PED WALK	7	7
PED CLEARANCE	16	13
GREEN EXTENSION	-	3.5
MAXIMUM GREEN	55	25
YELLOW CLEARANCE	3.6	3.1
ALL RED CLEARANCE	1.9	1.7
RECALL	PED	NONE

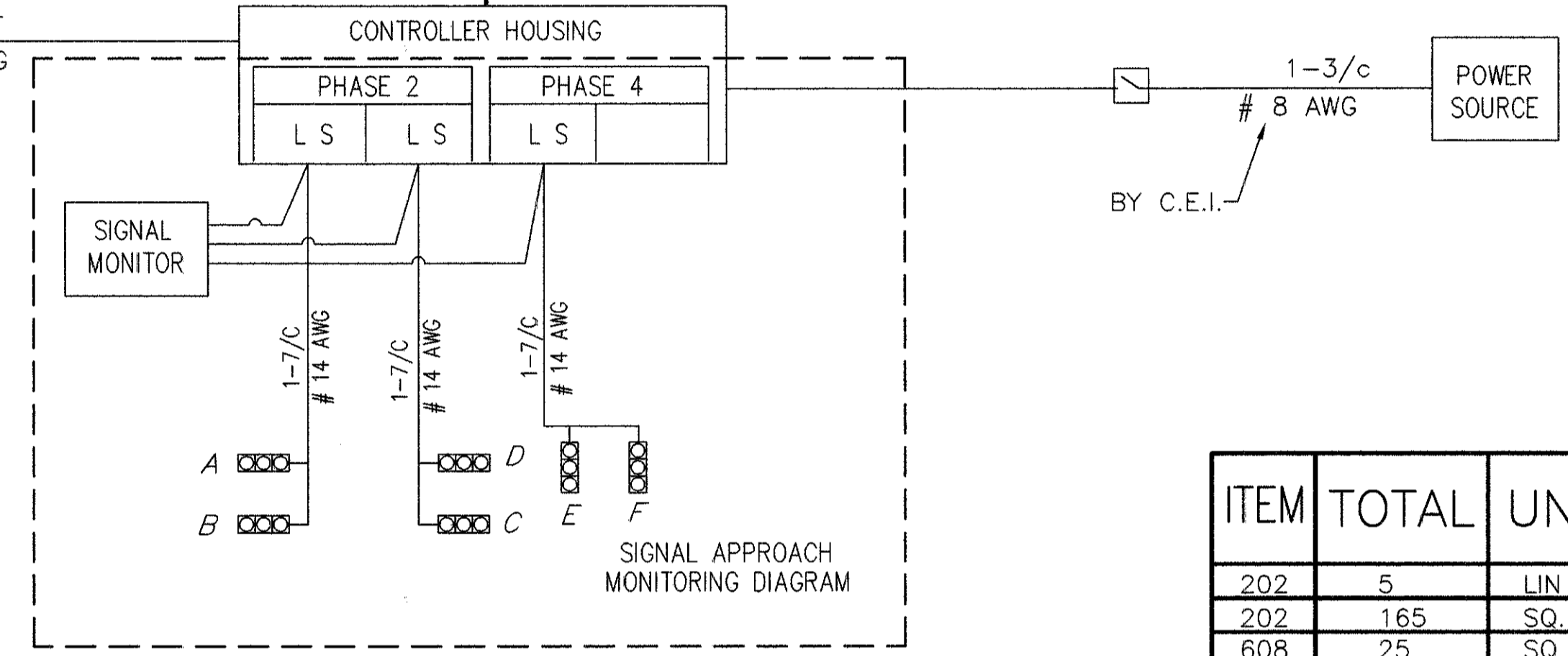
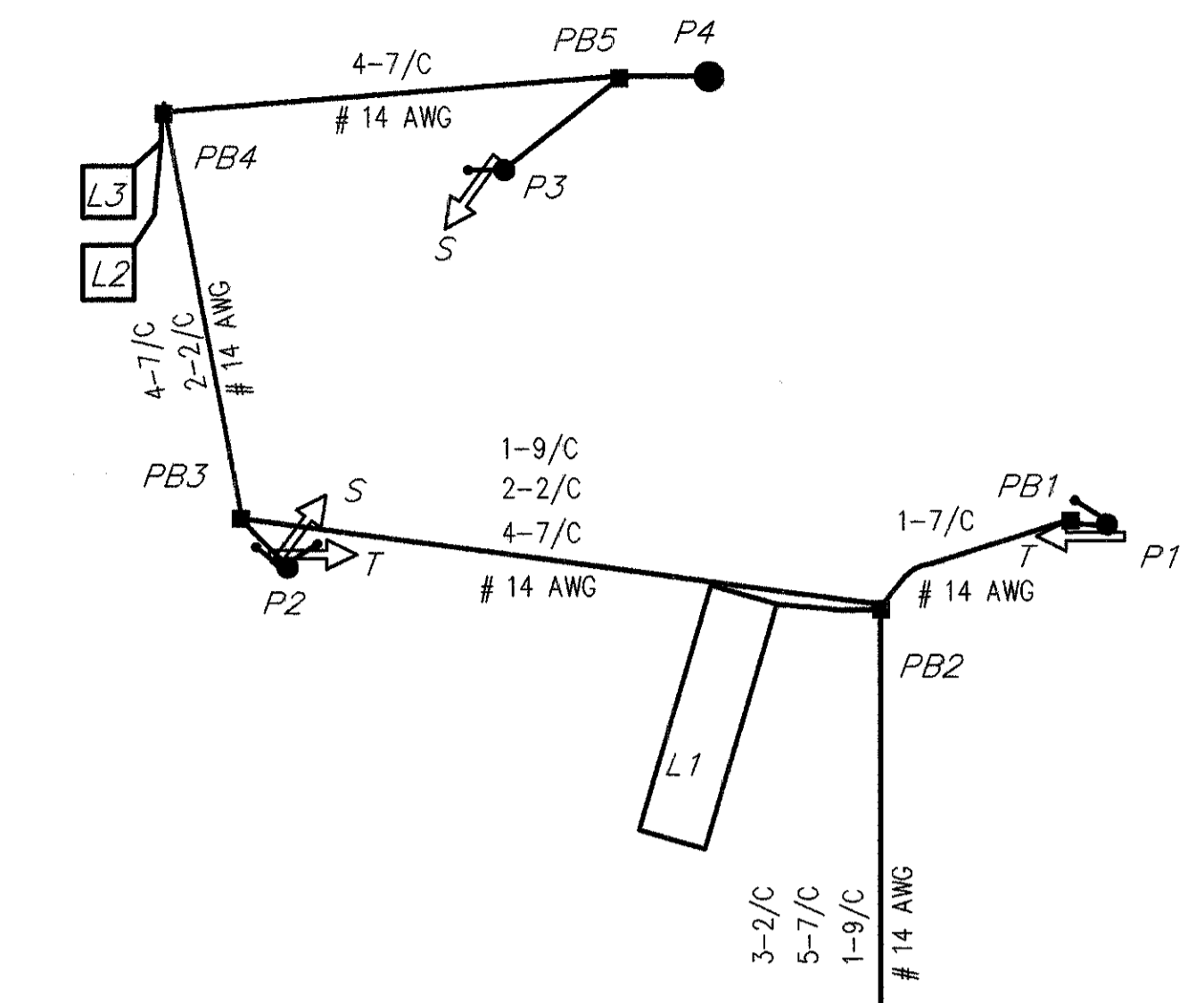
SIGNAL TIMING

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
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	8' x 30'	2	PRESENCE	8	1	4
L2	6' x 6'	3	PRESENCE		2	SYSTEM
L3	6' x 6'	3	PRESENCE		3	SYSTEM

LOOP DETECTOR CHART



WIRING 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	85	100	120
PHASE 2 SPLIT	81 %	75 %	83 %
PHASE 4 SPLIT	19 %	25 %	17 %
PERMISSIVE	15 %	15 %	15 %
OFFSET	98 %	58 %	35 %

COORDINATION TIMING

ITEM	TOTAL	UNIT	DESCRIPTION
202	5	LIN FT	CURB REMOVED
202	165	SQ. FT.	WALK REMOVED
608	25	SQ FT	CURB RAMP, TYPE 2
608	165	SQ. FT.	4" CONCRETE WALK
625	5	EACH	GROUND ROD
625	5	EACH	PULLBOX, MISC; AS PER PLAN
625	111	LIN FT	CONDUIT, 2", 713.04
625	14	LIN FT	CONDUIT, 3", 713.04
625	143	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	113	LIN FT	TRENCH
625	12	LIN FT	TRENCH IN PAVED AREA, TYPE "B"
632	6	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	2	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	1	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	4.09	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, 42' AND TYPE TC-81.20, DES. 3, 32'
632	3	EACH	PEDESTAL, 8', TRANSFORMER BASE
632	1	EACH	CABLE SUPPORT ASSEMBLY
632	150	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	1215	LIN FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	160	LIN FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	398	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	353	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	43	LIN FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	1	EACH	CONDUIT RISER, 1 1/2"
632	6	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