

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		FOUNDATION		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)
	POLE DESIGN NO.	ARM DESIGN NO.	POLE HEIGHT (FT)	STATION	OFFSET	(FT.)	(FT.)	(FT.)	(FT.)	(FT.)	(FT.)										
P1	PEC		8'	135+31	39'L							0									
P2	PEC		8'	135+82	44'L							0	0	0							180
P3	PEC		8'	136+15	42'L							0	0	0							180
P4	12		20'	137+06	45'L	41	22	30	40			20	225	225	340	340					180
P5	PEC		8'	138+61	39'R							0	0	0							180
P6	PEC		8'	138+22	37'R							0	0	0							180
P7	PEC		8'	137+86	35'R							0	180	180	225	225					180
P8	11		20'	137+08	45'R	38	15	19	25	37	31	20	340	340							180

ORIENTATION ANGLE CHART

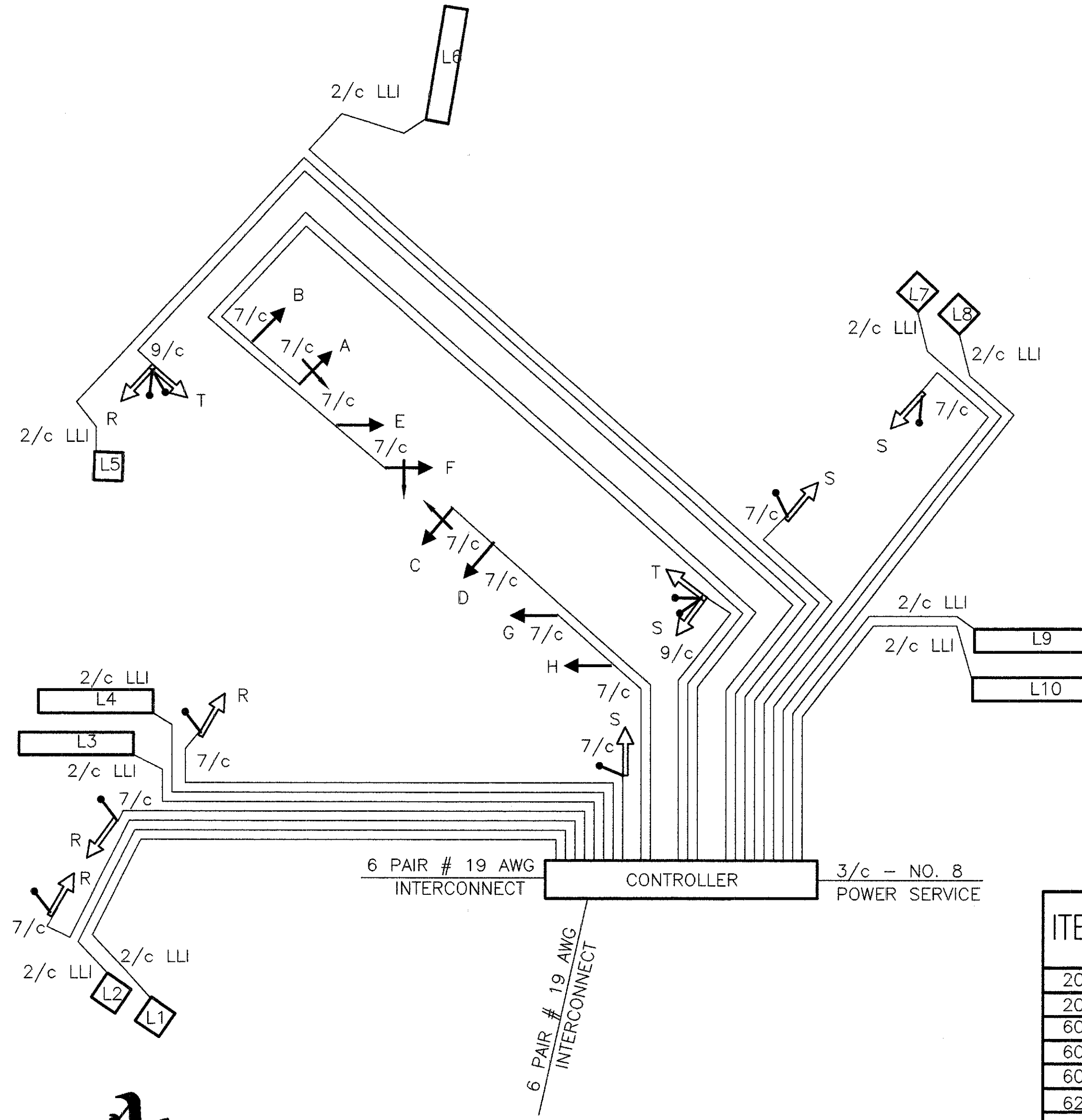
INTERVAL	ø2	ø3	ø4	ø5	ø6	ø7	ø8
MINIMUM GREEN	27	7	8	7	27	7	8
PED WALK	7		5		7		
PED CLEARANCE	20		20		17		
GREEN EXTENSION	3.0	2.5	3.0	2.5	3.0	2.5	3.0
MAXIMUM GREEN	60	10	25	7	47	10	25
YELLOW CLEARANCE	3.9	3.9	3.9	3.9	3.9	3.9	3.9
ALL RED CLEARANCE	1.7	2.0	2.0	1.7	1.7	2.0	2.0
RECALL	PED	NONE	NONE	NONE	PED	NONE	NONE

SIGNAL TIMING

- REMAINS R/G IF ø4 & ø7 NEXT
- REMAINS R/G IF ø3 & ø8 NEXT

SIGNAL HEAD	ø2 & ø5		ø2 & ø6		ø3 & ø7		ø3 & ø8		ø4 & ø7		ø4 & ø8		FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
A	G/Y	G/Y	R	G	R	R	R	R	R	R	R	R	Y
B	G	G	Y	R	G	G	Y	R	R	R	R	R	Y
C	R	R	R	R	G	G	Y	R	R	R	R	R	Y
D	R	R	R	R	G	G	Y	R	R	R	R	R	Y
E	R	R	R	R	R	R	R	R	R	R	G	Y	R
F	R	R	R	R	R	R	R	R	R/G	R/G	Y/R	R	R
G	R	R	R	R	R	R	R	R	R/G	R/G	Y/R	R	R
H	R	R	R	R	R	R	R	R	G	G	R	R	R
R-R	W	W	W	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW
S-S	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW
T-T	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW

SIGNAL DISPLAY CHART



WIRING DIAGRAM

- NOTES:
- PHASE SPLITS SHALL INCLUDE ALL GREEN PLUS YELLOW & ALL RED
 - PERMISSIVES SHALL START AT THE ZERO POINT OF THE CYCLE
 - OFFSETS SHALL BE REFERENCED TO THE BEGINNING OF PHASE 2 YELLOW

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	90	100	110
PHASE 2 SPLIT	57 %	56 %	60 %
PHASE 3 SPLIT	14 %	13 %	12 %
PHASE 4 SPLIT	29 %	31 %	28 %
PHASE 5 SPLIT	14 %	13 %	12 %
PHASE 6 SPLIT	43 %	43 %	48 %
PHASE 7 SPLIT	14 %	13 %	12 %
PHASE 8 SPLIT	29 %	31 %	28 %
PERMISSIVE	5 %	5 %	5 %
OFFSET	7 %	96 %	2 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 9:00AM MON-SAT	3:30PM TO 6:30PM MON-SAT

COORDINATION TIMING

LOOP #	SIZE	# TURNS	MODE	DELAY	UNIT #	PHASE
L1	6' x 8'	3	PRESENCE	0	1	SYSTEM
L2	6' x 8'	3	PRESENCE	0	2	SYSTEM
L3	6' x 30'	2	PRESENCE	0	3	8
L4	6' x 30'	2	PRESENCE	0	4	3
L5	6' x 8'	3	PRESENCE	0	5	SYSTEM
L6	6' x 30'	2	PRESENCE	0	6	5
L7	6' x 8'	3	PRESENCE	0	7	SYSTEM
L8	6' x 8'	3	PRESENCE	0	8	SYSTEM
L9	6' x 30'	2	PRESENCE	0	9	4
L10	6' x 30'	2	PRESENCE	0	10	7

LOOP DETECTOR CHART

ITEM	TOTAL	UNIT	DESCRIPTION
202	67	LIN.FT.	CURB REMOVED
202	695	SQ FT	WALK REMOVED
608	150	SQ FT	CURB RAMP, TYPE 1
608	125	SQ FT	CURB RAMP, TYPE 2
608	720	SQ FT	4" CONCRETE WALK
625	9	EACH	GROUND ROD
625	11	EACH	PULLBOX, MISC; AS PER PLAN
625	218	LIN FT	CONDUIT, 2", 713.04
625	36	LIN FT	CONDUIT, 3", 713.04
625	337	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	254	LIN FT	TRENCH
630	1	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN
630	4	SQ FT	SIGN, FLAT SHEET, TYPE G
632	3	EACH	VEHICULAR SIGNAL HEAD, 3 SECT., 12" LENS, 1-WAY, AS PER PLAN
632	3	EACH	VEHICULAR SIGNAL HEAD, 5 SECT., 12" LENS, 1-WAY, AS PER PLAN
632	1	EACH	VEHICULAR SIGNAL HEAD, 3 SECT., 12" LENS, 2-WAY, AS PER PLAN
632	10	EACH	PEDESTRIAN SIGNAL HEAD, TYPE D2
632	10	EACH	PEDESTRIAN PUSHBUTTON
632	10	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	7.92	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATION
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 11, WITH 38' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12, WITH 41' ARM
632	6	EACH	PEDESTAL, 8", TRANSFORMER BASE
632	2	EACH	CABLE SUPPORT ASSEMBLY
632	646	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	1653	LIN FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	276	LIN FT	SIGNAL CABLE, 9 CONDUCTOR, NO. 14 AWG
632	1	EACH	PHONE DROP
632	1676	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	1625	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	47	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
633	1	EACH	CONTROLLER, MASTER, TRAFFIC RESPONSIVE, AS PER PLAN