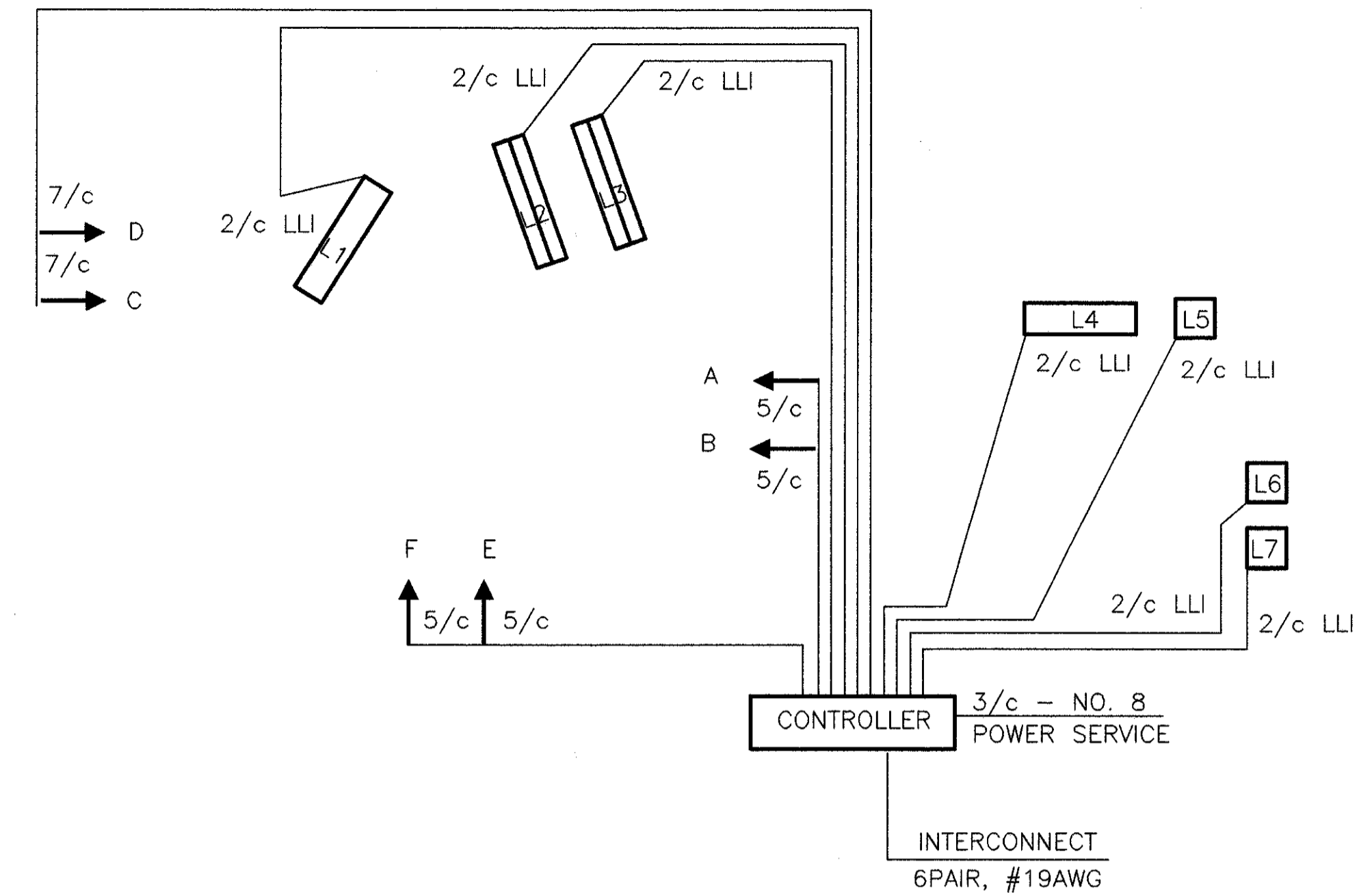


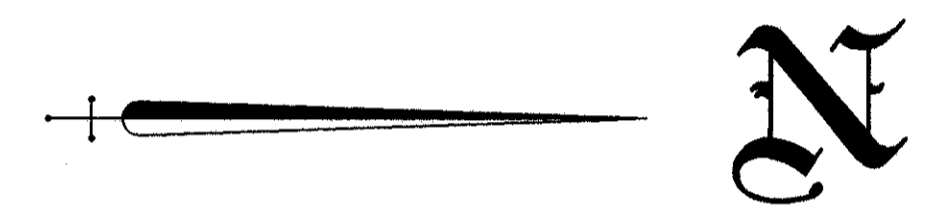
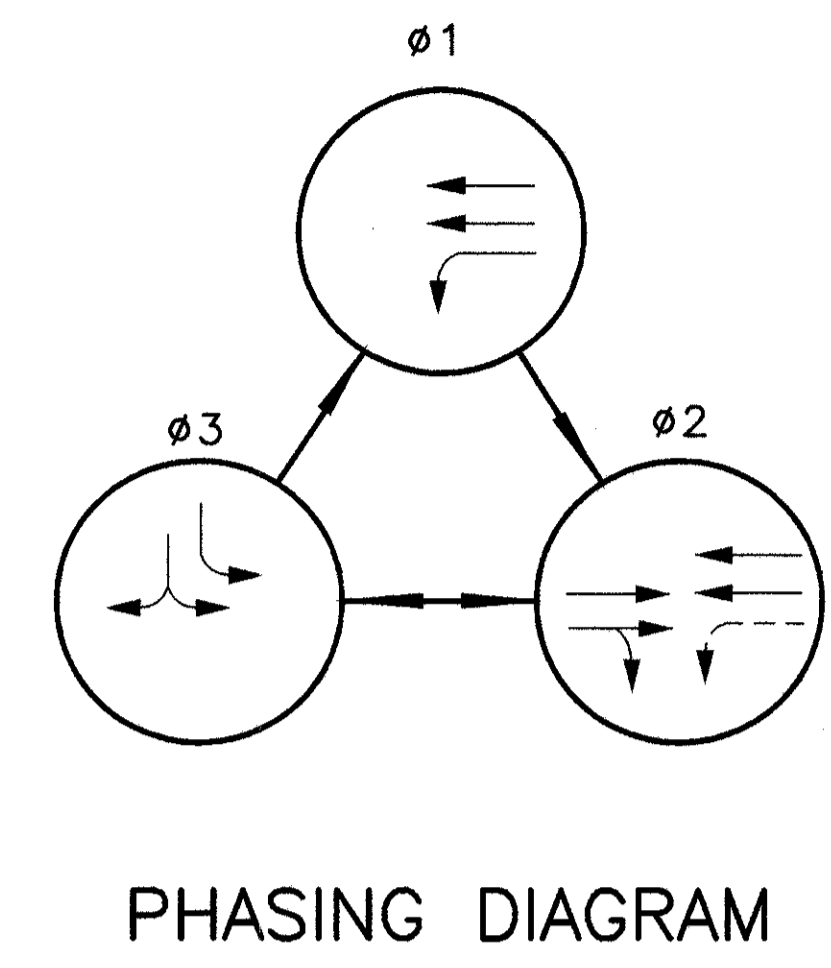
NOTES:  
1. ALL ANGLES MEASURED CLOCKWISE.  
2. BASE PLATE IS ORIENTED SQUARE TO MAST ARM A (LARGEST ARM) EVEN IF SUPPORT HAS TWO MAST ARMS.

SUPPORT NO.	SIGNAL SUPPORT						ORIENTATION ANGLES (DEG.) FROM MAST ARM "A"														
	POLE DESIGN NO.		ARM DESIGN NO.	POLE HEIGHT (FT)	FOUNDATION		L (FT.)	L1 (FT.)	L2 (FT.)	L3 (FT.)	X1 (FT.)	MAST ARM A ANGLE (DEG.)	MAST ARM B ANGLE (DEG.)	PEDESTRIAN SIGNALS	PEDESTRIAN PUSH BUTTONS	POWER SERVICE	CONTROLLER	LUMINAIRE BRACKET	HANDHOLE	CABLE ENTRANCE (12" FROM TOP)	
	TC-81.20	TC-12.30			STATION	OFFSET															
P1	12		4	21'	239+95	51'R	37	23	36			0									180
P2	11		3		238+63	55'L	43	21	33			250									180

ORIENTATION ANGLE CHART



WIRING DIAGRAM



FUNCTION	ø1	ø2	ø3
MINIMUM GREEN	7	8	7
PED WALK	-	-	-
PED CLEARANCE	-	-	-
GREEN EXTENSION	2.5	3.0	2.5
MAXIMUM GREEN	9	54	41
YELLOW CLEARANCE	4.2	4.7	3.6
ALL RED CLEARANCE	1.0	1.0	1.4
RECALL	NONE	MIN	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 1 YELLOW

	DIAL 1	DIAL 2	DIAL 3
CYCLE LENGTH	90 SEC	110 SEC	120 SEC
PHASE 1 SPLIT	19 %	24 %	21 %
PHASE 2 SPLIT	63 %	58 %	46 %
PHASE 3 SPLIT	18 %	18 %	33 %
PERMISSIVE	10 %	10 %	10 %
OFFSET	28 %	15 %	12 %
TIME OF DAY SCHEDULE	ALL OTHER TIMES	6:30AM TO 2:30PM 6:30PM TO 9:00PM MON-SAT	2:30PM TO 6:30PM MON-SAT

COORDINATION TIMING

SIGNAL HEAD	ø1			ø2			ø3			FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR		
A	R	R	R	G	Y	R	R	R	R	Y
B	R	R	R	G	Y	R	R	R	R	Y
C	G/G	G/G	G	G	Y	R	R	R	R	Y
D	G	G	G	G	Y	R	R	R	R	Y
E	R	R	R	R	R	R	G	Y	R	R
F	R	R	R	R	R	R	G	Y	R	R

SIGNAL DISPLAY CHART

LOOP #	SIZE	# TURNS	MODE	DELAY	UNIT #	PHASE
L1	8' x 25'	2	PRESENCE	8	1	3
L2	8' x 35'	2-4-2	PRESENCE	0	2	3
L3	8' x 35'	2-4-2	PRESENCE	0	3	3
L4	6' x 20'	2	PRESENCE	0	4	1
L5	6' x 6'	3	PRESENCE	0	5	1
L6	6' x 6'	3	PRESENCE	0	6	SYSTEM
L7	6' x 6'	3	PRESENCE	0	7	SYSTEM

LOOP DETECTOR CHART

ITEM	TOTAL	UNIT	DESCRIPTION
625	3	EACH	GROUND ROD
625	5	EACH	PULLBOX, 18", AS PER PLAN
625	165	LIN FT	CONDUIT, 2", 713.04
625	184	LIN FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"
625	150	LIN FT	TRENCH
632	5	EACH	VEHICULAR SIGNAL HEAD, 3 SECT., 12" LENS, 1 WAY, AS PER PLAN
632	1	EACH	VEHICULAR SIGNAL HEAD, 5 SECT., 12" LENS, 1 WAY, AS PER PLAN
632	6	EACH	LOOP DETECTOR UNIT, AS PER PLAN
632	1	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN
632	5.58	CU YD	CONCRETE FOR ANCHOR BASE FOUNDATIONS
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 11, WITH 43' ARM
632	1	EACH	SIGNAL SUPPORT, TYPE TC-81.20, DES. 12, WITH MAST ARMS
			TYPE TC-81.20 DES. 4, 37' AND TYPE TC-81.20 DES. 3, 34'
632	2	EACH	CABLE SUPPORT ASSEMBLY
632	566	LIN FT	LOOP DETECTOR PAVEMENT CUTTING
632	153	LIN FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG
632	357	LIN FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG
632	1538	LIN FT	LOOP DETECTOR WIRE, TYPE E
632	830	LIN FT	LOOP DETECTOR LEAD-IN CABLE
632	94	LIN FT	POWER CABLE, 3 CONDUCTOR, NO. 8 AWG
632	1	EACH	CONDUIT RISER, 2" DIAM.
632	6	EACH	COVERING OF VEHICULAR SIGNAL HEADS
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION, AS PER PLAN
633	8.33	SQ FT	CONTROLLER WORK PAD
633	.99	CU YD	CONCRETE FOR CABINET FOUNDATION
633	1	EACH	CONTROLLER, ACTUATED, 3 PHASE, SOLID-STATE DIGITAL, MICROPROCESSOR, AS PER PLAN