

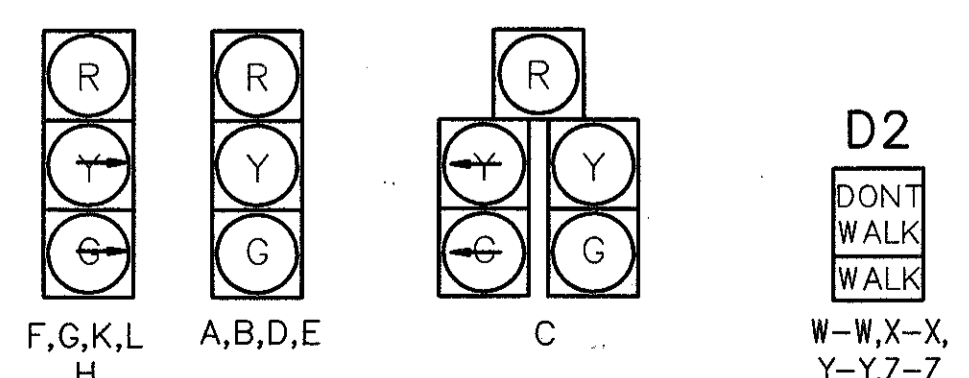
SIGNAL HEAD	φ1		φ2		φ3		φ4		FLASH	DWELL	
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR			
A	G	G	G	G	Y	R	R	R	R	Y	G
B	G	G	G	G	Y	R	R	R	R	Y	G
C	G	G	G	G	Y	R	R	R	R	Y	G
D	R	R	R	G	Y	R	R	R	R	Y	G
E	R	R	R	G	Y	R	R	R	R	Y	G
F	←	←	←	←	←	←	←	←	←	←	←
G	←	←	←	←	←	←	←	←	←	←	←
H	←	←	←	←	←	←	←	←	←	←	←
K	R	R	R	R	R	R	R	R	R	R	R
L	R	R	R	R	R	R	R	R	R	R	R
W-W	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
X-X	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Y-Y	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Z-Z	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW

SIGNAL SEQUENCE CHART

- ① IF PHASE 2 NEXT THEN G
- ② IF PHASE 2 NEXT THEN ←
- ③ IF PHASE 2 NEXT THEN R
- ④ IF PHASE 2 NEXT THEN ←R

FUNCTION	φ1	φ2	φ3	φ4
INITIAL GREEN	5.0	-	5.0	5.0
MINIMUM GREEN	-	30.0	-	-
VEHICLE EXTENSION	3.0	-	3.0	3.0
MAXIMUM GREEN	20.0	-	20.0	20.0
PEDESTRIAN WALK	-	10.0	7.0	-
PEDESTRIAN CLEARANCE	-	15.0	10.0	-
VEHICLE YELLOW CLEARANCE	3.0	3.0	3.0	3.0
VEHICLE ALL RED CLEARANCE	1.0	1.0	1.0	1.0
RECALL	NO	YES	NO	NO
MEMORY	NO	NO	NO	NO

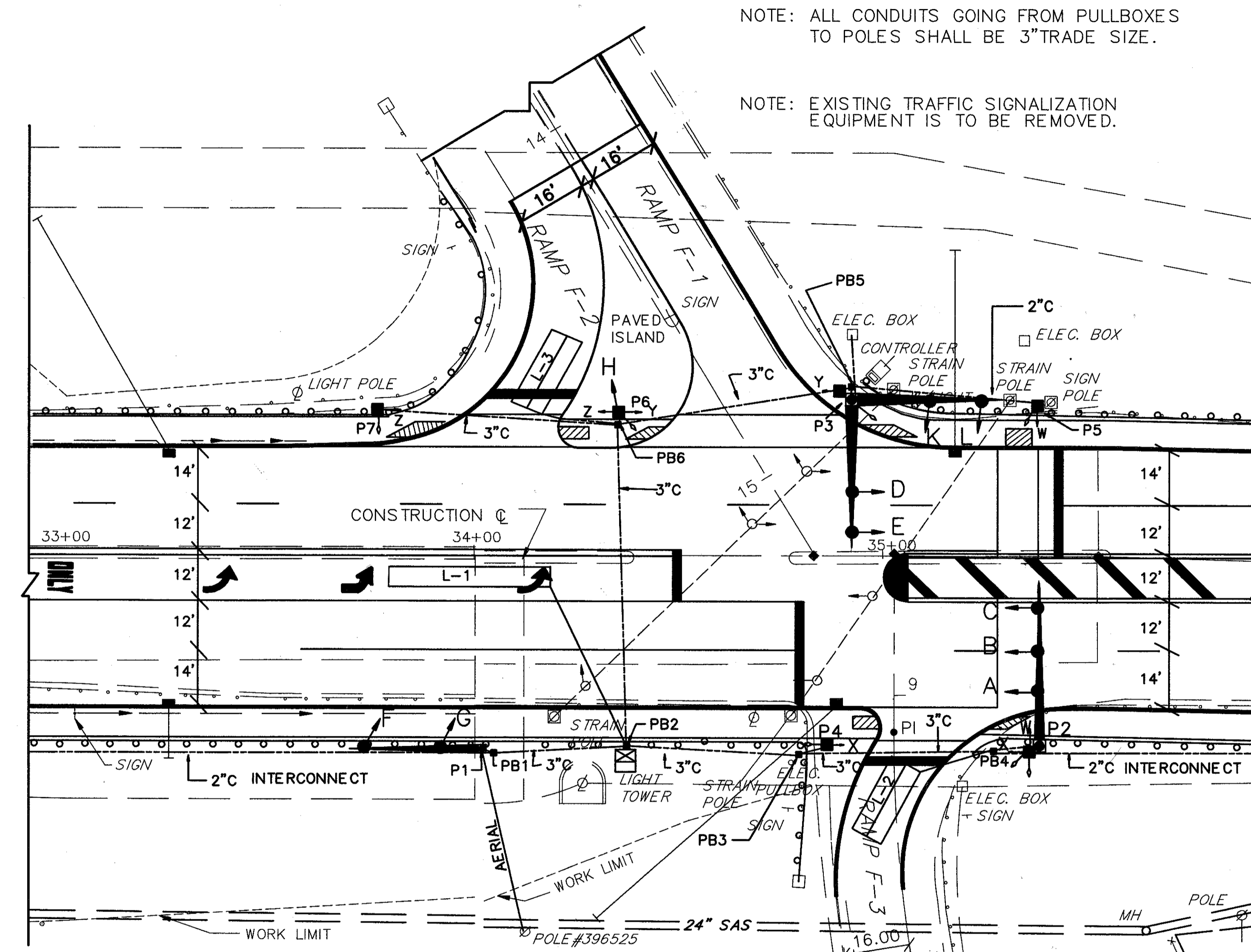
SIGNAL TIMING CHART



12" SIGNAL HEADS RIGID MOUNTED

LOOP	SIZE	TURNS	MODE	DELAY	PHASE	REMARK	INHIBITED DELAY	LOCATION 1st FRONT CORNER	LOCATION 2nd FRONT CORNER
L-1	5X40	2	PRESENCE	7.0	φ1	-	YES	STA. 34+18,3'R	STA. 34+18, 8'R
L-2	8X20	2-4-2	PRESENCE	7.0	φ4	QUADRUPOLE	YES	STA. 35+2.5,49.5'R	STA. 35+09,53'R
L-3	8X20	2-4-2	PRESENCE	7.0	φ4	QUADRUPOLE	YES	STA. 34+09, 38'L	STA. 34+17, 35'L

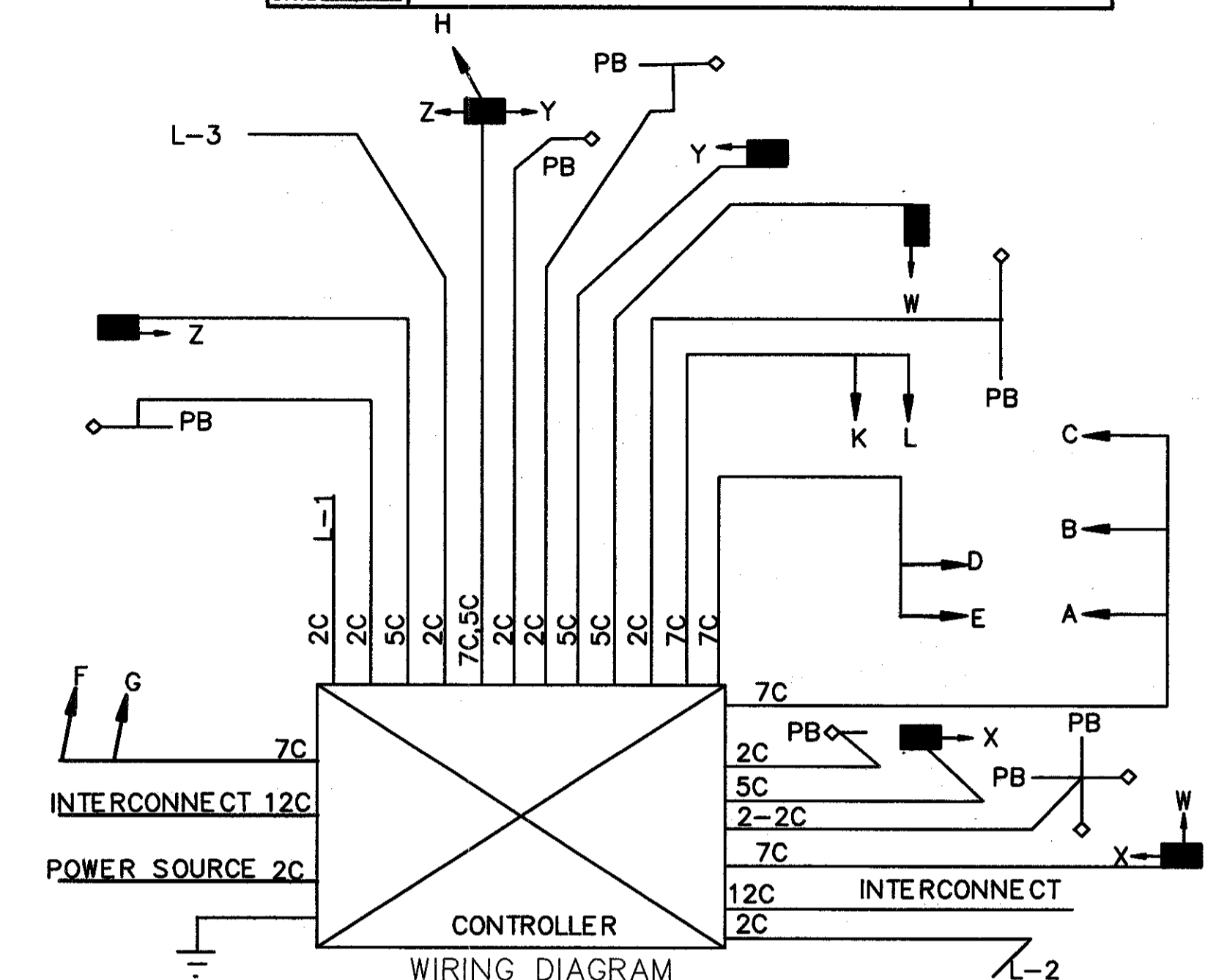
LOOP DETECTOR CHART



FOR SIGNING DETAILS SEE SHEET 63.  
 FOR ORIENTATION ANGLES SEE SHEET 55.  
 FOR CURB RAMP CALL OFFS SEE SHEET 22.  
 FOR PAVEMENT MARKING DETAILS SEE SHEET 63.  
 FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET 48-49.  
 FOR INTERCONNECT DETAILS SEE SHEET 56.

NOTE: ALL CONDUITS GOING FROM PULLBOXES TO POLES SHALL BE 3" TRADE SIZE.

NOTE: EXISTING TRAFFIC SIGNALIZATION EQUIPMENT IS TO BE REMOVED.



WIRING DIAGRAM

ITEM	ITEM EXT.	DESCRIPTION	UNIT	QUANTITY
625		GROUND ROD	EACH	9
625		PULL BOX, 713.08, 18"	EACH	4
625		PULL BOX, 713.08, 24"	EACH	2
625		TRENCH	LN FT	240
625		CONDUIT, 2", 713.07, TYPE DB	LN FT	45
625		CONDUIT, 3", 713.04	LN FT	200
625		CONDUIT, CONCRETE ENCASED, SIZE: 3"	LN FT	125
632		VEHICULAR SIGNAL HEADS, 3-SECTION, 12" LENS, 1-WAY, AS PER PLAN	EACH	9
632		VEHICULAR SIGNAL HEAD, 5-SECTION, 12" LENS, 1-WAY, AS PER PLAN	EACH	1
632		PEDESTAL, 12' W/TRANSFORMER BASE	EACH	1
632		PEDESTAL, 8' W/TRANSFORMER BASE	EACH	3
632		PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN	EACH	8
632		PEDESTRIAN PUSHBUTTON	EACH	8
632		LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN	EACH	3
632		LOOP DETECTOR PAVEMENT CUTTING	LN FT	285
632		CONCRETE FOR ANCHOR BASE FOUNDATION	CU YDS	8.13
632		COMBINATION SIGN SUPPORT, TYPE TC-12.30		
		DESIGN 5 POLE, WITH MAST ARMS TC-81.20		
		AND TC-12.30 DESIGN 3,16 FEET.	EACH	1
632		SIGNAL SUPPORT, TYPE TC-81.20 DESIGN NO.4, W/35' ARM	EACH	1
632		SIGNAL SUPPORT, TYPE TC-81.20, DESIGN NO.3, W/33' ARM	EACH	1
631		SIGNAL SERVICE	EACH	1
632		CABLE SUPPORT ASSEMBLY	EACH	4
632		SIGNAL CABLE, 2-CONDUCTOR, NO. 14 AWG, AS PER PLAN	LN FT	930
632		SIGNAL CABLE, 5-CONDUCTOR, NO. 14 AWG	LN FT	605
632		SIGNAL CABLE, 7-CONDUCTOR, NO. 14 AWG	LN FT	1055
632		LOOP DETECTOR WIRE, TYPE E	LN FT	784
632		LOOP DETECTOR LEAD-IN CABLE	LN FT	210
632		POWER CABLE, 2-CONDUCTOR, NO. 8 AWG	LN FT	150
632		POWER SERVICE	EACH	1
632		COVERING OF SIGNAL HEADS	EACH	10
632		REMOVAL OF TRAFFIC SIGNAL INSTALLATION	EACH	1
633		CONTROLLER, ACTUATED, 4 PHASE, SOLID STATE, DIGITAL, MICROPROCESSOR, AS PER PLAN	EACH	1
633		COORDINATOR, MULTI-DIAL, SOLID STATE, DIGITAL MICROPROCESSOR SECONDARY	EACH	1
633		CONCRETE FOR CABINET FOUNDATION	CU YDS	2
633		CONTROLLER WORK PAD	SQ FT	8.3
633		ALTERNATE BID: CONTROLLER, ACTUATED, 4 PHASE, SOLID STATE DIGITAL MICROPROCESSOR, AS PER PLAN	EACH	1

TRAFFIC CONTROL SIGNAL PLAN

LAK 306 - 6.82 / NORTH RAMPS