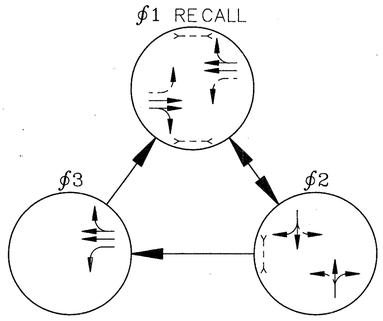
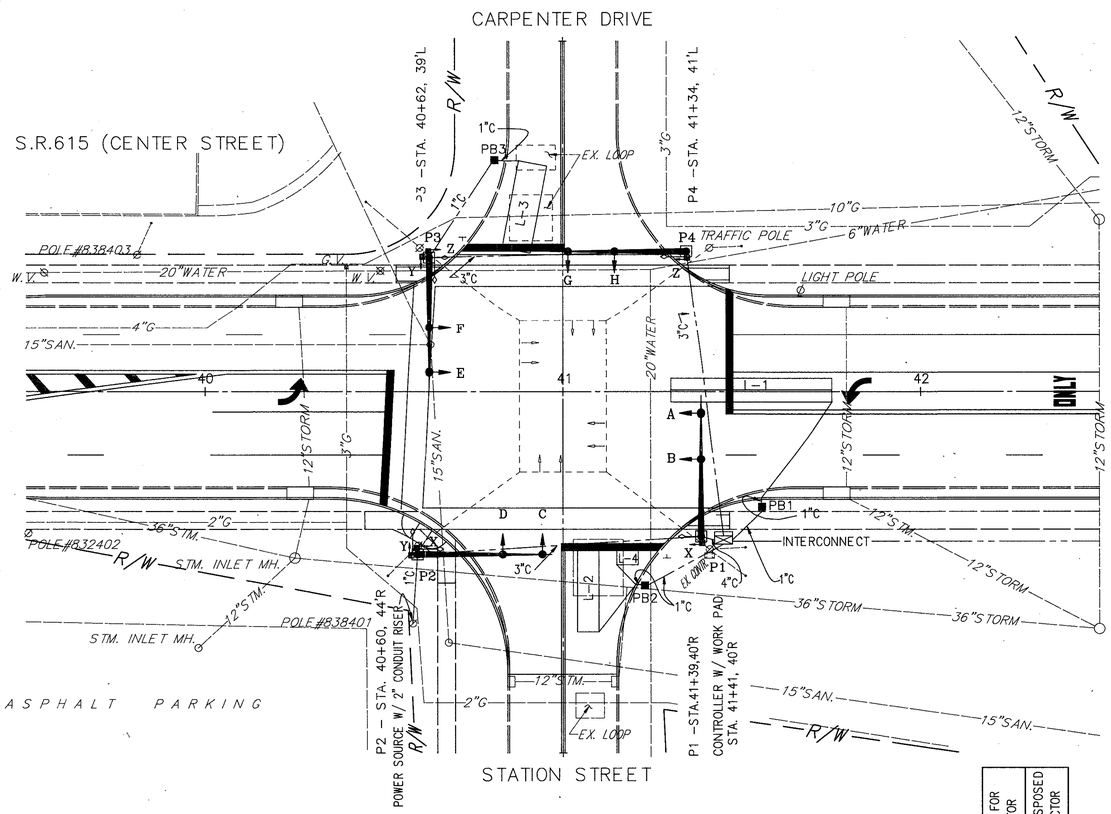
CALC. BY L.M.L. DATE SEPT. '88	LAKE COUNTY LAK – 615 – 03.88	OHIO FHWA REGION 5	34 63
CHKD. BY M.P.C. DATE SEPT. '88			



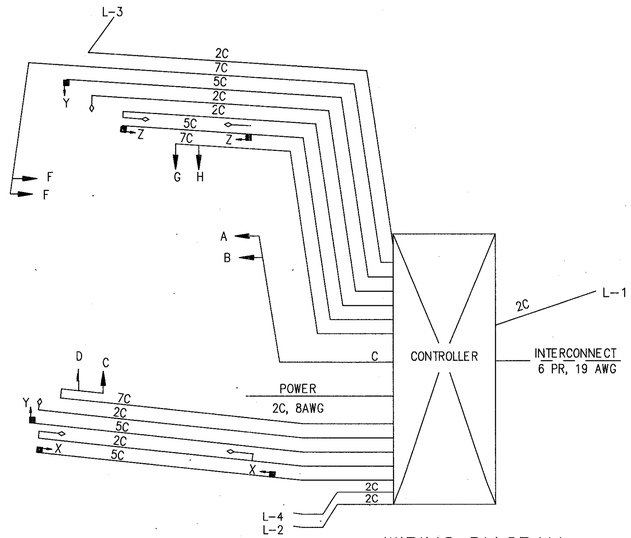
PHASING DIAGRAM

SIGNAL HEAD	ϕ1				ϕ2				ϕ3				FLASH	DWELL
	R/W		CLEAR		R/W		CLEAR		R/W		CLEAR			
A	G	G	Y	R	R	R	R	R	R	R	R	R	Y	G
B	G	G	Y	R	R	R	R	R	R	R	R	R	Y	G
C	R	R	R	R	G	G	Y	R	R	R	R	R	R	R
D	R	R	R	R	G	G	Y	R	R	R	R	R	R	R
E	G	G	Y	R	R	R	R	R	G/G	Y/Y	G	Y	G	
F	G	G	Y	R	R	R	R	R	G	Y	R	Y	G	
G	R	R	R	R	G	G	Y	R	R	R	R	R	R	R
H	R	R	R	R	G	G	Y	R	R	R	R	R	R	R
X–X	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT	DW
Y–Y	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	OUT	DW
Z–Z	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OUT	DW

SIGNAL SEQUENCE CHART



STATION STREET



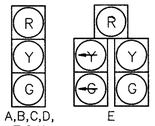
WIRING DIAGRAM

SEE SHEET NO. 38 FOR PAVEMENT MARKING PLAN
SEE SHEET NO. 41 FOR INTERCONNECT PLAN
SEE SHEET NO. 33 FOR TRAFFIC CONTROL GENERAL SUMMARY
SEE SHEET NO. 18 FOR CURB RAMP CALL OUTS

	ITEMS STORED FOR CITY OF MENTOR	ITEMS TO BE DISPOSED OF BY CONTRACTOR
CONTROLLER	1	
VEHICULAR SIGNAL HEADS	8	
WOOD POLES		4

FUNCTION	ϕ1	ϕ2	ϕ3
INITIAL GREEN	–	7.0	7.0
MINIMUM GREEN	30.0	–	–
VEHICLE EXTENSION	–	3.0	3.0
MAXIMUM GREEN	–	22.0	20.0
PEDESTRIAN WALK	7.0	7.0	–
PEDESTRIAN CLEARANCE	13.0	14.0	–
VEHICLE YELLOW CLEARANCE	3.0	3.0	3.0
VEHICLE ALL RED CLEARANCE	1.0	1.0	–
RECALL	ON	OFF	OFF
MEMORY	NO	NO	NO

SIGNAL TIMING CHART



12" SIGNAL HEADS

LOOP	SIZE	TURNS	MODE	DELAY	PHASE	REMARK	INHIBITED DELAY	LOCATION 1st FRONT CORNER	LOCATION 2nd FRONT CORNER
L–1	6X45	2–4–2	PRESENCE	·	ϕ3	QUADRAPOLE		STA. 41+30, 3'L	STA. 41+30, 9'L
L–2	6X25	2	PRESENCE	7.0	ϕ2		ϕ2	STA. 41+04, 41'R	STA. 41+10, 41'R
L–3	8X25	2	PRESENCE	7.0	ϕ2		ϕ2	STA. 40+83, 42'L	STA. 40+91, 40'L
L–4	6X6	2	PRESENCE	7.0	ϕ2		ϕ2	STA. 41+15, 41'R	STA. 41+21, 41'R

LOOP DETECTOR CHART

SUB SUMMARY

ITEM	ITEM EXT.	DESCRIPTION	UNIT	QTY
625		GROUND ROD	EACH	5
625		PULL BOX, 713.08, 18"	EACH	3
625		TRENCH	LIN FT	144
625		TRENCH IN PAVED AREAS, TYPE B	LIN FT	19
625		CONDUIT, 1" 713.07, TYPE DB	LIN FT	106
625		CONDUIT, 3" 713.07, TYPE EB	LIN FT	239
625		CONDUIT, 4" 713.07, TYPE DB	LIN FT	5
632		VEHICULAR SIGNAL HEADS, 3-SECTION, 12" LENS, 1-WAY, AS PER PLAN	EACH	7
632		VEHICULAR SIGNAL HEADS, 5-SECTION, 12" LENS, 1-WAY, AS PER PLAN	EACH	1
632		PEDESTRIAN SIGNAL HEAD, TYPE D2, AS PER PLAN	EACH	6
632		PEDESTRIAN PUSHBUTTON	EACH	6
632		LOOP DETECTOR UNIT, DELAY+EXTEND, AS PER PLAN	EACH	4
632		LOOP DETECTOR PAVEMENT CUTTING	LIN FT	364
632		CONCRETE FOR ANCHOR BASE FOUNDATION	CU YDS	6.68
632		SIGNAL SUPPORT, TYPE TC–81.20, DESIGN No. 3, W/ 34' ARM	EACH	1
632		SIGNAL SUPPORT, TYPE TC–81.20, DESIGN No. 3. W/ 35' ARM	EACH	2
632		SIGNAL SUPPORT, TYPE TC–81.20, DESIGN No. 3, W/ 36' ARM	EACH	1
632		CONDUIT RISER, 2" DIA.	EACH	1
632		CABLE SUPPORT ASSEMBLY	FACH	4
632		SIGNAL CABLE, 2–CONDUCTOR, 14 AWG	LIN FT	540
632		SIGNAL CABLE, 5–CONDUCTOR, 14 AWG	LIN FT	580
632		SIGNAL CABLE, 7–CONDUCTOR. 14 AWG	LIN FT	654
632		LOOP DETECTOR WIRE, TYPE E	LIN FT	878
632		LOOP DETECTOR LEAD–IN CABLE	LIN FT	286
632		POWER CABLE, 2–CONDUCTOR, 8 AWG	LIN FT	150
632		POWER SERVICE	EACH	1
632		COVERING OF SIGNAL HEADS	EACH	8
632		REMOVAL OF TRAFFIC INSTALLATION	EACH	1
633		CONTROLLER, 4 PHASE, SOLID STATE, DIGITAL MICROPROCESSOR, AS PER PLAN	EACH	1
633		COORDINATOR, MULTI–DIAL, SOLID STATE, DIGITAL MICROPROCESSOR		
	F	SECONDARY	EACH	1
633		CONCRETE FOR CABINET FOUNDATION	CU YDS	1
633		CONTROLLER WORK PAD	SQ FT	8.3

STATION STREET/ CARPENTER DRIVE & CENTER STREET SIGNAL PLAN

LAK – 615 – 03.88