

\\Akrn01\Data\Civil\2004108\00\13486\signals\sheets\13486CP50M03A.dgn 6/16/2008 9:27:01 AM svarrecchia

SIGNAL DISPLAYS

SIGNAL HEAD	φ 1 & φ 5		φ 1 & φ 6		φ 2 & φ 5		φ 2 & φ 6		φ 4 & φ 8		FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2	R	R	R	R	R	R	R	R	R	R	Y
3	R	R	R	R	G	G	Y	R	R	R	Y
4	R	R	R	R	R	R	R	R	R	R	Y
5	R	R	R	R	R	R	R	R	R	R	R
6	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
7	R	R	R	R	R	R	G	G	Y	R	Y
8	R	R	R	R	R	R	R	R	R	R	Y
9	R	R	R	R	R	R	R	R	R	R	R
10	R/G	R/G	R/Y	R	R	R	R/G	R/G	R/Y	R	R

TRAFFIC SIGNAL DETECTOR CHART

LOOP DESIGNATION	SIZE (FT.)	TURNS	PULSE OR PRESENCE	DELAY (SEC.)	EXTENSION (SEC.)	OVERRIDE PHASE	CONNECT TO DETECTOR UNIT (UNIT-CHANNEL)	ASSOCIATED CONTROLLER PHASE
L-1	8' x 40'	3	PRESENCE	-	-	-	1	5
L-2	8' x 40'	3	PRESENCE	10	-	-	2	4
L-3	8' x 40'	3	PRESENCE	5	-	-	3	4
L-4	8' x 40'	3	PRESENCE	-	-	-	4	1
L-5	8' x 40'	3	PRESENCE	5	-	-	5	8
L-6	6' x 6'	3	PULSE	-	-	-	6	SYSTEM
L-7	6' x 6'	3	PULSE	-	-	-	7	SYSTEM

OVERHEAD SIGNS

FROM SHEET NO.	STATION	SIDE	SIGN CODE AND SIZE					ITEM 630			
			R10-5-24 (24"x30")	M2-H6 (108"x84")	D3-H2A (72"x18")	D3-H2A (96"x18")	M2-H6 (120"x84")	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	SIGN, FLAT SHEET	SIGN, OVERHEAD EXTRUSHEET	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN
1173	33+82	LT	1		1			25			2
1173	34+68	LT				1		12			1
1173	34+19	RT				1		12			1
1173	34+95	RT	1		1			25			2
TOTAL								74	-	-	6

TIMING CHART

START IN: Y/R FLASH ● ; ALL RED ○
 TIME FOR FLASH OR ALL RED 3 SEC.
 FIRST PHASE(S) φ 2 & φ 6
 COLOR DISPLAYED: GREEN ● ;YELLOW ○

DUAL ENTRY ●
 REST IN RED: RING 1 ○ RING 2 ○

INTERVAL	CONTROLLER PHASE							
	1	2	3	4	5	6	7	8
MOVEMENT	↶	→	↷	↓	↶	↷	↶	↷
MINIMUM GREEN (INITIAL)	10	-	-	10	10	-	-	10
ADDED INITIAL	-	-	-	-	-	-	-	-
PASSAGE TIME	-	-	-	-	-	-	-	-
TIME BEFORE REDUCTION	-	-	-	-	-	-	-	-
MINIMUM GAP	-	-	-	-	-	-	-	-
TIME TO REDUCE	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	20	38	-	16	20	38	-	16
MAXIMUM GREEN II	-	-	-	-	-	-	-	-
YELLOW CHANGE	3	4	-	4	3	4	-	4
ALL RED CLEARANCE	1	2	-	2	1	2	-	2
WALK	-	-	-	-	-	-	-	-
PEDESTRIAN CLEARANCE	-	-	-	-	-	-	-	-
RECALL	MAXIMUM	-	ON	-	-	ON	-	-
	MINIMUM	-	-	-	-	-	-	-
	PEDESTRIAN	-	-	-	-	-	-	-
MEMORY	OFF	OFF	-	OFF	OFF	OFF	-	OFF
CALL TO NON-ACUATED	No. 1	-	-	-	-	-	-	-
	No. 2	-	-	-	-	-	-	-
MAXIMUM CYCLE	90							

SYSTEM TIMING AND COORDINATION CHART

PROGRAM #	CYCLE LENGTH (SEC)	OFFSET (%)	PERCENT SPLIT BY PHASE							
			SBLT	NBT	WBLT	EBT	NBLT	SBT	EBLT	WBT
			1	2	3	4	5	6	7	8
PROGRAM # 1	110	28	27	48		25	27	48		25
PROGRAM # 2	120	38	26	41		33	26	41		33

TRAFFIC SIGNAL OFFSET CHART

INTERSECTION DESCRIPTION:	NON-MASTER INTERSECTION	
	TIME PERIOD	PROGRAM NUMBER
AM PEAK HOUR	6:30 AM TO 2:30 PM 6:30 PM TO 9:00 PM	#1
PM PEAK HOUR	2:30 PM TO 6:30 PM	#2
OFF PEAK	ALL OTHER TIMES	FREE

NOTE: TIME SPACE DIAGRAMS AND EXISTING INTERCONNECT PLANS CAN BE FOUND AT THE ODOT DISTRICT 12 OFFICES TITLED LAK-91-4.56

SUB-SUMMARY OF TRAFFIC SIGNAL ITEMS

ITEM	QUANTITY	UNIT	ITEM DESCRIPTION	REFERENCE	CALCULATED	CHECKED
					DAT	MAH
625	176	FT	CONDUIT, 2", 725.05			
625	68	FT	CONDUIT, 3", 725.05			
625	236	FT	TRENCH			
625	295	FT	CONDUIT, JACKED OR DRILLED UNDER PAVEMENT, 3"			
625	4	EACH	PULL BOX, 725.08, 18"			
625	1	EACH	PULL BOX, 725.08, 24"			
625	4	EACH	GROUND ROD			
625	1	EACH	GROUND ROD, AS PER PLAN	1038		
625	236	FT	PLASTIC CAUTION TAPE	1040		
632	9	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	1038		
632	1	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN	1038		
632	7	EACH	DETECTOR LOOP			
632	7	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN	1038		
632	878	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG			
632	4	EACH	SIGNAL SUPPORT FOUNDATION			
632	1026	FT	LOOP DETECTOR LEAD-IN CABLE			
632	1	EACH	POWER SERVICE, AS PER PLAN	1038		
632	1	EACH	CONDUIT RISER, 2" DIAMETER			
632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 1			
632	1	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 2			
632	2	EACH	SIGNAL SUPPORT, TYPE 81.20, DESIGN 12			
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION			
633	1	EACH	CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS1			
633	1	EACH	CABINET RISER			
633	1	EACH	CABINET FOUNDATION			
633	1	EACH	CONTROLLER WORK PAD			
633	4	EACH	CONTROLLER ITEM, MISC.: PREEMPTION RECEIVING UNIT	1039		
633	4	EACH	CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR	1039		
633	4	EACH	CONTROLLER ITEM, MISC.: PREEMPTION CONFIRMATION LIGHT	1039		
633	782	FT	CONTROLLER ITEM, MISC.: PREEMPTION DETECTOR CABLE	1039		

TRAFFIC SIGNAL DETAILS AND SUB-SUMMARY
SOM CENTER RD AND CURTIS BLVD INTERSECTION

LAK-2-3.32

1174
1679