

SIGNAL DISPLAYS

SIGNAL HEAD	ø 2 & ø 6				ø 3 & ø 8				FLASH
	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	R/W	CLEAR	
1	G	G	Y	R	R	R	R	R	Y
2	G	G	Y	R	R	R	R	R	Y
3	G	G	Y	R	R	R	R	R	Y
4	G	G	Y	R	R	R	R	R	Y
5	R	R	R	R	G	G	Y	R	R
6	R	R	R	R	G	G	Y	R	R
A	W	FDW	DW	DW	DW	DW	DW	DW	DARK
B	W	FDW	DW	DW	DW	DW	DW	DW	DARK

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	6' x 40'	3	PRESENCE	-	-	-	1	3
L-2	6' x 40'	3	PRESENCE	10	-	-	2	8

OVERHEAD SIGNS

FROM SHEET NO.	STATION	SIDE	SIGN CODE AND SIZE					ITEM 630							
			R10-4A-9 (9"x12")	R10-7-24 (24"x30")	D3-H2A (72"x18")	D3-H2A (96"x18")	E1-H1 (120"x84")	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	SIGN, FLAT SHEET	SIGN, OVERHEAD EXTRUSHEET	SIGN SUPPORT ASSEMBLY, POLE MOUNTED, AS PER PLAN	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN			
1186	64+38	LT													
1186	64+56	LT		1			1				17				2
TOTAL								1		17					2

TIMING CHART

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

REST IN RED: RING 1 ○ RING 2 ○
 OVERLAP PHASES A B C D

INTERVAL	CONTROLLER PHASE							
	1	2	3	4	5	6	7	8
MOVEMENT	↶	→	↷	↓	↶	→	↷	↑
MINIMUM GREEN (INITIAL)	-	-	-	-	-	-	-	9
ADDED INITIAL	-	-	-	-	-	-	-	-
PASSAGE TIME	-	-	-	-	-	-	-	3
TIME BEFORE REDUCTION	-	-	-	-	-	-	-	-
MINIMUM GAP	-	-	-	-	-	-	-	-
TIME TO REDUCE	-	-	-	-	-	-	-	-
MAXIMUM GREEN I	31	-	-	-	-	-	-	26
MAXIMUM GREEN II	-	-	-	-	-	-	-	-
YELLOW CHANGE	5.2	-	-	-	-	-	-	5.1
ALL RED CLEARANCE	1	-	-	-	-	-	-	1
WALK	7	-	-	-	-	-	-	-
PEDESTRIAN CLEARANCE	12	-	-	-	-	-	-	-
RECALL	MAXIMUM	-	-	-	-	-	-	-
	MINIMUM	ON	-	-	-	-	-	-
	PEDESTRIAN	-	-	-	-	-	-	-
MEMORY	OFF	-	-	-	-	-	-	OFF
CALL TO NON-ACUATED	No. 1	-	-	-	-	-	-	-
	No. 2	-	-	-	-	-	-	-
MAXIMUM CYCLE	70	-	-	-	-	-	-	-

RT. 2 - WB

DESCRIPTION	TIMING PROGRAM (CYCLE NO.)						
	1	2	3	4	5		
TIME PERIOD IN EFFECT	FREE OPER.	SEE WEEKLY TIMING PROGRAM CHART					
CYCLE LENGTH (SEC.)		70	70	70			
OFFSET (RESET) NO. 1 (SEC.)		1	1	1			
FORCE - OFF #2		16	25	24			
FORCE - OFF #3							
FORCE - OFF #4							
FORCE - OFF #5							
LENGTH OF HOLD - RELEASE OR YIELD (PERMISSIVE) (SEC.)		4	4	4			

WEEKLY TIMING PROGRAM CHART

	2400-0600	0600-0700	0700-0800	0800-0900	0900-1130	1130-1400	1400-1600	1600-1700	1700-1800	1800-2130	2130-2300	2300-2400
SUNDAY	1	2	2	2	2	2	2	2	2	1	1	
MONDAY	1	3	3	3	2	2	2	4	4	2	2	1
TUESDAY	1	3	3	3	2	2	2	4	4	2	2	1
WEDNESDAY	1	3	3	3	2	2	2	4	4	2	2	1
THURSDAY	1	3	3	3	2	2	2	4	4	2	2	1
FRIDAY	1	3	3	3	2	2	2	4	4	2	2	1
SATURDAY	1	3	3	3	2	2	2	4	4	2	1	1

NOTES:

- 1) TIME SPACE DIAGRAMS AND EXISTING INTERCONNECT PLANS CAN BE FOUND AT THE ODOT DISTRICT 12 OFFICES DATED 8/92, TITLED LAK-LOST NATION ROAD.

SUB-SUMMARY OF TRAFFIC SIGNAL ITEMS

ITEM	QUANTITY	UNIT	ITEM DESCRIPTION	REFERENCE	CALCULATED	CHECKED	TMD
					DRJ		
625	2	EACH	BRACKET ARM, 15'				
625	204	FT	CONDUIT, 2", 725.05	-			
625	335	FT	CONDUIT, 3", 725.04				
625	12	FT	CONDUIT, 3", 725.05				
625	551	FT	TRENCH				
625	4	EACH	PULL BOX, 725.08, 18"				
625	2	EACH	PULL BOX, 725.08, 24"				
625	2	EACH	GROUND ROD				
625	1	EACH	GROUND ROD, AS PER PLAN	1038			
625	551	FT	PLASTIC CAUTION TAPE	1038			
630	2	EACH	SIGN HANGER ASSEMBLY, MAST ARM, AS PER PLAN	1038			
630	17	SF	SIGN, FLAT SHEET				
630	1	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL				
632	6	EACH	VEHICULAR SIGNAL HEAD WITH LED LAMP UNITS, 3-SECTION, 12" LENS, 1-WAY, AS PER PLAN	1038			
632	2	EACH	PEDESTRIAN SIGNAL HEAD WITH LED LAMP UNITS, TYPE A2	1038			
632	2	EACH	DETECTOR LOOP				
632	2	EACH	LOOP DETECTOR UNIT, DELAY AND EXTENSION TYPE, AS PER PLAN	1038			
632	1	EACH	DISCONNECT SWITCH WITH ENCLOSURE				
632	687	FT	SIGNAL CABLE, 2 CONDUCTOR, NO. 14 AWG				
632	311	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG				
632	716	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG				
632	2	EACH	SIGNAL SUPPORT FOUNDATION				
632	2	EACH	PEDESTAL FOUNDATION				
632	845	FT	LOOP DETECTOR LEAD-IN CABLE				
632	265	FT	POWER CABLE, 2 CONDUCTOR, NO. 6 AWG				
632	40	FT	POWER CABLE, 3 CONDUCTOR, NO. 6 AWG				
632	1	EACH	POWER SERVICE, AS PER PLAN	1039			
632	1	EACH	CONDUIT RISER, 2" DIAMETER				
632	1	EACH	COMBINATION SIGNAL SUPPORT, MISC.: POLE P2-1 LOST	1038			
632	1	EACH	NATION ROAD SPECIAL DESIGN				
632	1	EACH	COMBINATION SIGNAL SUPPORT, TYPE TC-81.20, DESIGN 11				
632	2	EACH	PEDESTAL, 8', TRANSFORMER BASE				
632	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION				
633	1	EACH	CONTROLLER UNIT, TYPE TS2/A2, WITH CABINET, TYPE TS1, AS PER PLAN	1040			
633	1	EACH	CABINET RISER				
633	1	EACH	CABINET FOUNDATION				
633	1	EACH	TELEPHONE SERVICE				
633	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT	1039			
633	3	EACH	CONTROLLER ITEM, MISC.: PREEMPTION RECEIVING UNIT	1039			
633	1	EACH	CONTROLLER ITEM, MISC.: PREEMPT PHASE SELECTOR	1039			
633	3	EACH	CONTROLLER ITEM, MISC.: PREEMPT CONFIRMATION LIGHT	1040			
633	1	EACH	CONTROLLER ITEM, MISC.: PREEMPTION	1040			
633	687	FT	CONTROLLER ITEM, MISC.: PREEMPTION DETECTOR CABLE	1040			