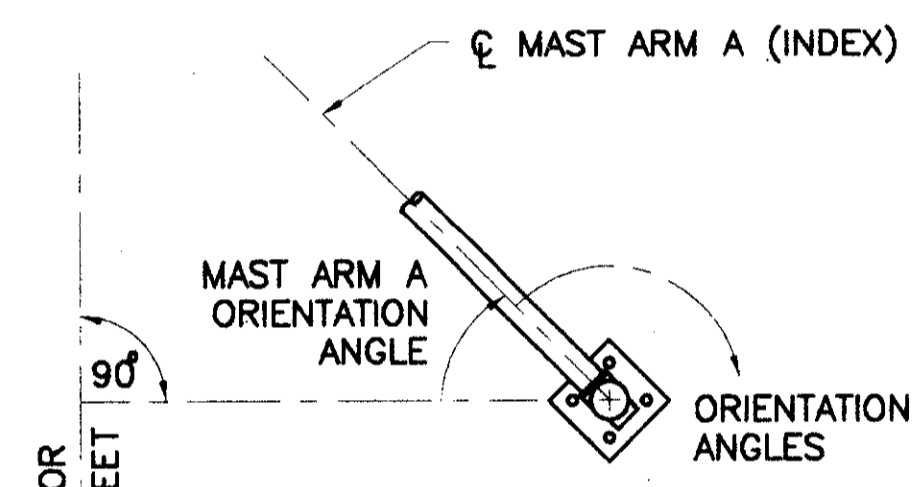
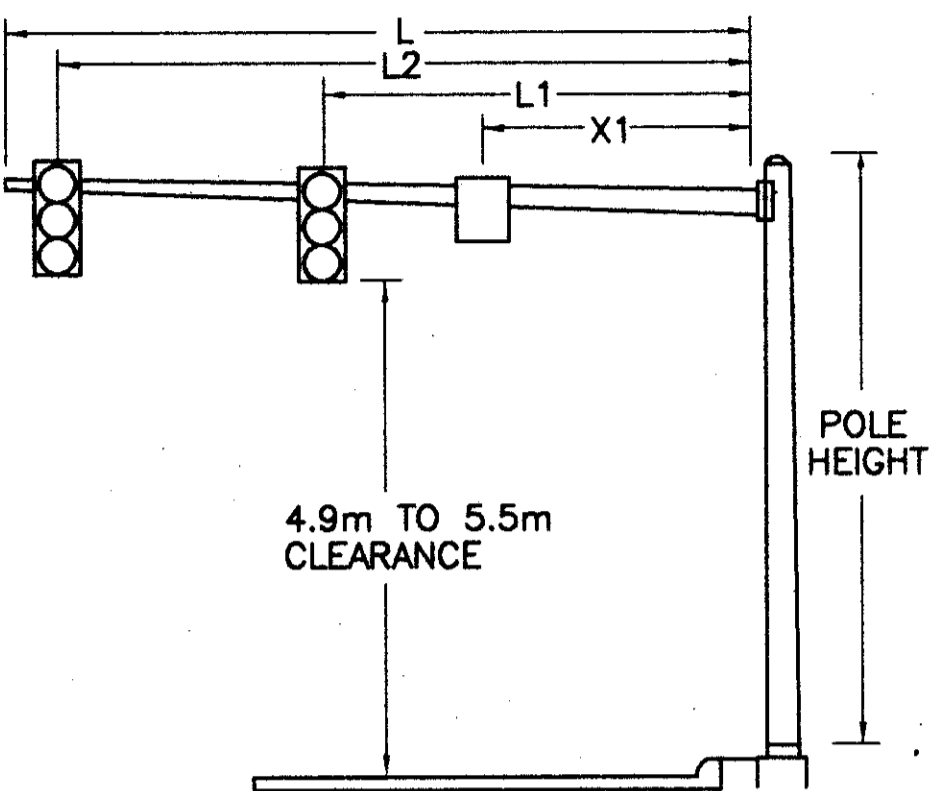


ORIENTATION ANGLES

CALCULATED
CHECKED



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.

NOTES:
1. THE MAJOR STREET SHALL BE THE FIRST STREET NAME CALLED OUT FOR EACH INTERSECTION.

INTERSECTION	PLAN SHEET NO.	SUPPORT NO.	SIGNAL SUPPORT															ORIENTATION ANGLES FROM MAST ARM A									
			POLE DESIGN NO.			ARM DESIGN NO.	POLE HEIGHT	FOUNDATION		L (m)	L1 (m)	L2 (m)	L3 (m)	L4 (m)	L5 (m)	L6 (m)	X1 (m)	X2 (m)	MAST ARM A ANGLE (DEG.)	MAST ARM B	PEDESTRIAN SIGNALS	PEDESTRIAN PUSHBUTTONS	HANDHOLE	CABLE ENTRANCE 0.3m FROM TOP	VEHICLE SIGNALS		
			TC-6120	TC-820	TC-6110			STATION	OFFSET																		
MENTOR AVENUE & WOOD ST./WATSON ST.	36	P1	3		3	6.1m	2+493.4	8.7m R	8.0	4.9	7.5							0	0/90	0/270	180						
		P2	PED				2.4m	2+491.4	17.5m R											210	210	180					
		P3	PED				2.4m	2+478.8	11.6m R											210	210	180					
		P4	3		3	6.1m	2+478.4	8.2m R	7.6	4.8	7.3								285	70	70	180					
		P5	PED				2.4m	2+472.2	8.1m R												225/315	225/315	180				
		P6	PED				2.4m	2+456.5	22.3m R												180/285	30/120	180				
		P7	12		12	6.1m	2+444.5	16.4m R	14.0	7.3	10.4	10.7	13.5							30	0	0	180				
		P8	3		2	6.1m	2+460.1	5.0m L	7.2	3.5	6.9									270			180				
		P9	PED		1		2.4m	2+473.6	7.7m L												90	90/315	0/90	180			
		P10	1		1	6.1m	2+490.8	11.8m L	5.2	1.7	4.8										105	10/90	45/135	180			
ERIE AVENUE & ST. CLAIR STREET	39	P1	4		4	6.1m	1+208.1	7.0m L	11.6	7.6	11.3							30	90/180	0/90	180						
		P2	1		1	6.1m	1+184.8	7.0m L	7.2	3.5	6.8								315	45/225/315	225/315	180					
		P3	PED				2.4m	1+173.9	9.7m L												180	45	180				
		P4	2		2	6.1m	1+195.8	8.2m R	8.4	4.4	8.1									90	90/180	90/180	180				
		P5	PED				2.4m	1+219.8	11.7m R													15/285	225/315	180			
		P6	4		4	6.1m	1+223.5	7.0m R	11.6	5.3	11.3										300			180			
ERIE AVENUE & STATE STREET	42	P1	1		1	6.1m	1+603.6	12.3m R	7.2	4.2	6.6								60	90	90	180					
		P2	3		3	6.1m	1+573.7	10.2m L	9.2	6.0	8.6									315	15/270	135/225	180				
		P3	3		3	6.1m	1+608.2	9.3m L	9.6	6.2	8.6										60	30/180	90/210	180			
		P4	11		11	6.1m	1+630.6	13.6m R	11.6	8.9	11.3										0	0/180	225/315	180			
		P5	PED				2.4m	1+595.8	7.8m R													45	225	180			
LIBERTY STREET & MENTOR AVENUE	45	P1	12		4	6.1m	0+977.5	11.7m R	9.6	4.6	7.7					3.7	8.6	270				180	225				
		P2	PED				2.4m	0+968.0	9.2m R												90			180			
		P3	4		4	6.1m	0+967.3	10.5m L	9.6	2.3	5.7	9.3									0	90/180	135/225	180			
		P4	PED				2.4m	0+982.2	9.8m L														180/270	10/270	180		
		P5	PED				2.4m	0+980.9	12.8m R														90	135	180		
MENTOR AVE/ERIE ST & RICHMOND STREET	47	P1	4		4	6.1m	2+725.5	10.5m R	11.2	7.3	10.7								90	0/270	0/270	180					
		P2	1		1	6.1m	2+757.9	7.0m R	6.8	2.9	6.3										0	180/270	180/270	180			
		P3	4		4	6.1m	2+747.5	9.6m L	11.2	7.3	10.7										90	90/180	0/270	180	0		
		P4	3		3	6.1m	2+721.8	10.0m L	10.4	6.6	10.0											0	0/270	0/270	180		
RICHMOND STREET & JACKSON STREET	50	P1	2		2	6.1m	1+286.6	9.0m R	8.4	4.0	7.8								0	0/270	0/270	180	45				
		P2	1		1	6.1m	1+270.9	10.5m R	6.8	3.0	6.2										90	180/270	180/270	180			
		P3	2		2	6.1m	1+271.5	9.6m L	8.4	4.6	8.0										0	0/270	0/270	180			
		P4	1		1	6.1m	1+286.9	10.0m L	5.6	2.7	5.1											90	180/270	180/270	180		
RICHMOND STREET & PROSPECT STREET	52	P1	4		4	6.1m	1+623.2	9.5m R	8.8	4.0	4.8	8.3							330	30	30	180	120				
		P2	4		4	6.1m	1+605.3	7.9m R	10.4	6.6	10.1										90	0/90	0/90	180	180		
		P3	2		2	6.1m	1+616.9	9.5m L	8.4	4.5	7.8										0	0/270	0/270	180			
		P4	PED				2.4m	1+651.4	9.2m L														0	0	180		

ORIENTATION ANGLES

LAKE COUNTY
LAK-20-22-916/VARIOUS