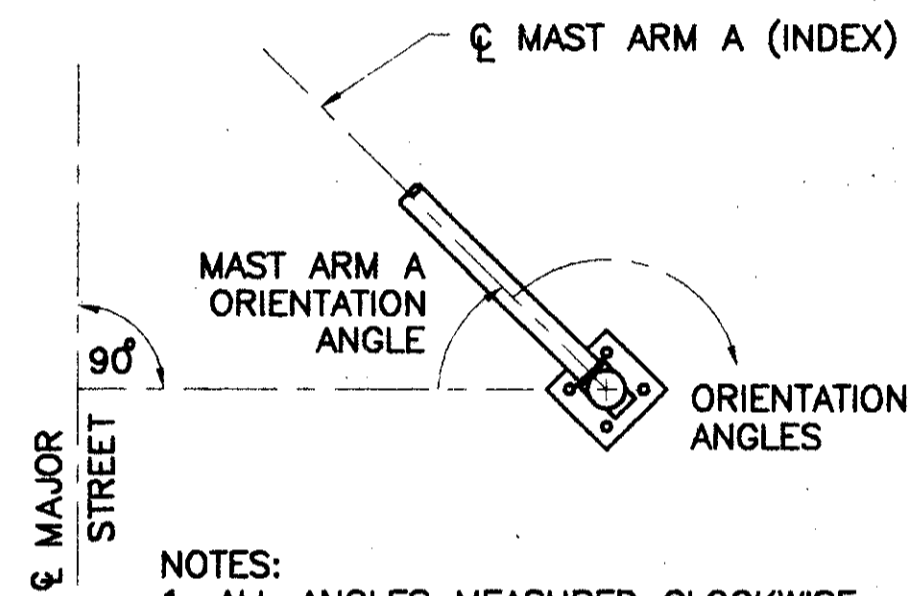
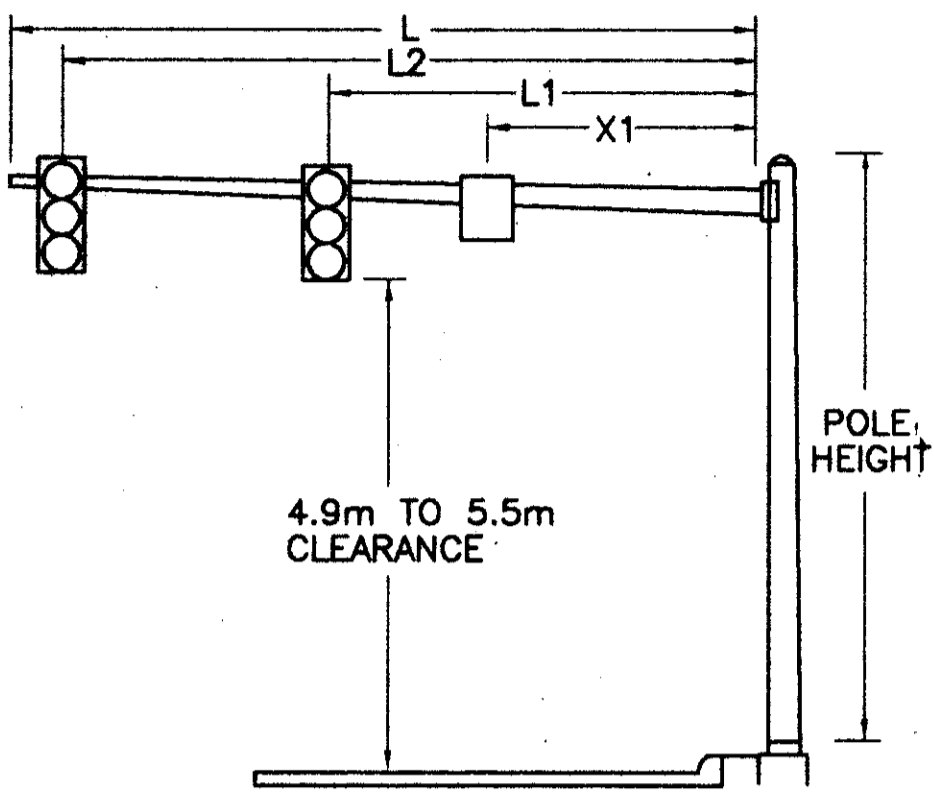


# ORIENTATION ANGLES

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-8120	TC-8230	TC-8110			STATION	OFFSET																
RICHMOND STREET & CHESTER STREET	54	P1	PED			2.4m	1+974.7	22.1m R												270	270	180			
		P2	PED			2.4m	1+957.0	14.8m R												15/285	15/105	180			
		P3	3		3	2.4m	1+975.4	12.3m L	10.4	4.8	10.0							15		0/90	90/270	180			
		P4	12		12	6.1m	2+000.3	21.7m L	14.0	10.4	13.7							75				180			
		P5	PED			2.4m	2+005.2	17.0m L													0	0	180		
		P6		6		12	6.1m	1+981.9	12.7m R	12.4	6.9	8.9	10.4	11.9					285				180		
RICHMOND STREET & SR 2 RAMP	57	P1	2		2	6.1m	2+080.2	15.2m L	8.8	4.0	8.3						90		180	270	180				
		P2	3		3	6.1m	2+081.0	14.2m R	11.2	5.1	10.9						0		0/270	0/270	180				
		P3	PED			2.4m	2+058.5	13.6m R												0	10	180			
		P4	11		11	6.1m	2+057.7	15.7m L	12.8	8.8	12.5							0				180			
RICHMOND STREET & SKINNER STREET	59	P1	2		2	6.1m	2+478.8	13.9m R	8.8	2.2	8.4						285		0/255	135/180	180				
		P2	12		12	6.1m	2+479.9	15.4m L	14.0	6.4	10.4	13.7					15				180				
		P3	PED			2.4m	2+485.7	15.3m L												180/270	45/315	180			
		P4		1		6.4m	2+511.4	16.0m L												0	45	180		90	
		P5	12		12	6.1m	2+514.7	15.8m R	14.6	9.4	14.3							0		180	135	180			
ST. CLAIR STREET & MAIN STREET	61	P1	3		3	6.1m	1+210.3	10.2m R	10.0	6.4	9.4						0		0/90	0/90					
		P2	11		11	6.1m	1+185.4	9.4m R	12.4	9.4	12.1						90		0/270	0/270					
		P3	2		2	6.1m	1+186.5	8.6m R	9.2	5.6	8.6						0		0/270	0/270					
		P4	2		2	6.1m	1+210.6	10.7m L	8.4	5.4	8.1						90		0/270	0/270					
STATE STREET & WASHINGTON STREET	63	P1	2		2	6.1m	0+987.4	7.7m L	7.6	4.6	7.3						0		180	180	180				
		P2	PED			2.4m	1+008.4	7.7m L												90/180	90/180	180			
		P3	12		11	6.1m	1+010.2	7.5m R	12.4	8.8	11.9						270		0	0	180				
STATE STREET & MAIN STREET	65	P1	2		2	6.1m	1+208.0	13.0m L	7.2	4.2	6.9						90		180/270	180/270		0			
		P2	2		2	6.1m	1+213.7	9.1m R	8.8	5.4	8.5						0		0/270	0/270		0			
		P3	2		2	6.1m	1+191.5	9.4m R	7.6	4.1	7.0						90		180/270	180/270					
		P4	2		2	6.1m	1+185.8	10.1m L	7.2	4.2	6.9								0/90	0/90					
LIBERTY STREET & WASHINGTON STREET	68	P1	3		3	6.1m	9+990	9.5m R	10.0	6.0	9.4						90		0/270	0/270	180				
		P2	2		2	6.1m	9+990	9.8m L	8.8	5.0	8.4						0		0/270	90/180	180				
		P3	3		3	6.1m	10+011	8.7m L	10.0	6.3	9.7						90		0/270	0/270	180				
		P4	2		2	6.1m	10+012	8.4m R	8.0	4.0	7.4						0		0/270	0/270	180				
ST. CLAIR STREET & HINE STREET	72	P1	1		1	6.1m	1+009.5	7.0m R	6.4	3.5	5.9						0		180/270	180/270	180				
		P2	1		1	6.1m	1+007.2	6.1m L	6.4	3.5	5.9						90		90/180	90/180	180				
		P3	1		1	6.1m	0+991.1	6.1m L	5.6	2.6	5.0						0		180/270	180/270	180				
		P4	1		1	6.1m	0+992.4	9.4m R	6.8	4.1	6.5						90		0/270	0/270	180				
STATE STREET & PROSPECT STREET	75	P1	PED			2.4m	1+778.6	8.5m R												270	270	180			
		P2	3		3	6.1m	1+779.7	10.6m L	10.4	5.2	10.0						0		0/90	0/90	180				
		P3	PED			2.4m	1+794.2	10.0m L												0/270	0/270	180			
		P4	11		4	6.1m	1+793.9	7.8m R	11.2	7.7	10.7						270		180	180					
					2			8.0	4.0	7.1															

ORIENTATION ANGLES

LAKE COUNTY  
LAK-20-22.916/VARIOUS