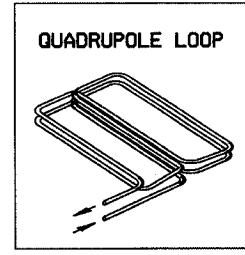
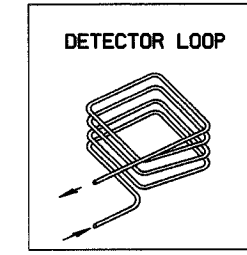


LOOP DESIGNATION	NUMBER OF TURNS	READING @ HANDHOLE OR JUNCTION BOX				READING @ CONTROLLER			
		CALCULATED		METERED		CALCULATED		METERED	
		$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω
WABASH & EAST MALL ENTRANCE/DRAWBRIDGE									
WLF	4	146	0.48			167	3.51		
WRF	4	144	0.42			164	3.45		
WLB	2	181	0.61			201	3.59		
WLT	2-4-2	307	0.87			327	3.85		
ELT	2-4-2	243	0.70			250	1.66		
ELB	2	181	0.61			188	1.57		
ERE	4	147	0.49			170	3.98		
ELE	4	149	0.56			173	4.05		
DEL	2-4-2	260	0.75			286	4.69		
DEB	2	182	0.62			208	4.56		
ECL	4	141	0.36			168	4.30		
ECR	4	144	0.42			171	4.37		
ELF	4	144	0.42			186	6.60		
ERF	4	146	0.47			188	6.66		
ML1	4	149	0.55			209	9.43		
MR1	4	150	0.57			210	9.45		
NRT	2	136	0.50			161	4.16		
NRB	2	136	0.50			161	4.16		
NLT	2	139	0.56			164	4.22		
NLB	2	139	0.56			164	4.22		
SLT	2	137	0.53			142	1.18		
SRT	2	135	0.46			139	1.11		
DLT	2	137	0.53			159	3.72		
DRT	2	135	0.46			156	3.65		
WABASH & KIRKLEY/MONTVALE									
WRF	4	146	0.46			179	5.42		
WLF	4	144	0.43			178	5.39		
WRE	4	140	0.33			163	3.66		
WLE	4	142	0.38			165	3.71		
WLB	2	187	0.74			201	2.82		
WLT	2-4-2	313	1.00			327	3.08		
ELT	2-4-2	411	1.32			426	3.41		
ELB	2	189	0.81			204	2.89		
ELE	4	148	0.51			169	3.65		
EME	4	148	0.51			169	3.65		
ELF	4	153	0.65			185	5.43		
ERF	4	153	0.65			185	5.43		
SL	2	187	0.74			188	1.00		
SR	2	184	0.69			186	0.95		
NL	2	185	0.70			205	3.67		
NR	2	183	0.65			203	3.62		
WABASH & ROBINHOOD									
WRF	4	138	0.29			176	5.82		
WLF	4	141	0.35			179	5.89		
WLB	2	184	0.68			194	2.11		
WLT	2-4-2	339	0.95			349	2.39		
ELT	2-4-2	308	0.88			325	3.38		
ELB	2	182	0.62			199	3.12		
ELF	4	142	0.36			177	5.66		
ERF	4	139	0.30			175	5.60		
SLT	2	137	0.53			160	3.91		
SRT	2	128	0.44			151	3.82		
NLT	2	137	0.53			141	1.11		
NRT	2	128	0.44			132	1.03		
MACARTHUR & ILES									
NFL	4	142	0.38			179	5.85		
NFR	4	140	0.32			177	5.78		

LOOP DESIGNATION	NUMBER OF TURNS	READING @ HANDHOLE OR JUNCTION BOX				READING @ CONTROLLER			
		CALCULATED		METERED		CALCULATED		METERED	
		$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω	$\mu\eta$	Ω
MACARTHUR & SOUTH GRAND									
SLF	4	144	0.41			178	5.46		
SRF	4	146	0.48			180	5.53		
SLE	4	144	0.41			179	5.65		
SME	4	141	0.35			176	5.58		
SLB	2	186	0.79			211	4.59		
SLT	2-4-2	456	1.43			482	5.23		
NLT	2-4-2	153	0.58			156	0.94		
WLB	2	139	0.64			146	1.63		
WLT	2-4-2	296	1.00			303	1.99		
WRP	2-4-2	210	0.64			225	2.84		
WMP	2-4-2	261	0.83			275	3.03		
WRB	2	126	0.47			141	2.67		
WMB	2	136	0.55			150	2.75		
ERP	2-4-2	353	1.00			368	3.27		
EMP	2-4-2	388	1.15			403	3.42		
ELT	2-4-2	422	1.30			438	3.57		
ELH	2	178	0.73			198	3.72		
EMH	2	168	0.65			189	3.63		
ERH	2	159	0.56			179	3.54		
SOUTH GRAND & WALNUT/HOLMES									
WRF	4	116	0.26			151	5.43		
WLF	4	118	0.32			153	5.49		
WRE	4	117	0.28			141	3.81		
WLE	4	119	0.34			143	3.87		
WLB	2	183	0.73			198	2.93		
WLT	2-4-2	438	1.33			453	3.54		
ELT	2-4-2	294	0.96			313	3.71		
ELB	2	184	0.75			203	3.50		
ELE	4	119	0.34			149	4.70		
ERE	4	117	0.28			146	4.64		
ELF	4	120	0.34			160	6.32		
ERF	4	117	0.28			158	6.26		
NRT	2-4-2	354	1.02			355	1.17		
NLT	2-4-2	373	1.13			373	1.27		
SRT	2	155	0.54			187	5.19		
SAP	2	165	0.63			196	5.28		
SOUTH GRAND & SPRING									
WRF	4	121	0.38			153	5.14		
WLF	4	122	0.41			154	5.17		
WRE	4	116	0.26			141	3.92		
WLE	4	119	0.32			143	3.98		
WLB	2	183	0.72			200	3.24		
WLT	2-4-2	405	1.24			422	3.76		
ELT	2-4-2	313	1.07			315	1.33		
ELB	2	187	0.81			188	1.07		
ELE	4	119	0.33			131	2.14		
ERE	4	116	0.27			129	2.08		
ELF	4	119	0.32			140	3.51		
ERF	4	116	0.26			138	3.45		
NRP	2-4-2	391	1.24			394	1.73		
NLT	2-4-2	373	1.14			376	1.63		
SLT	2-4-2	356	1.08			372	3.37		
SRP	2-4-2	338	0.98			353	3.27		
SOUTH GRAND & SECOND									
WLT	2-4-2	406	1.25			410	1.78		



INSTALLING THE LOOP WIRE:
 THE NEGATIVE LEAD SHALL BE CONNECTED TO THE BLACK CONDUCTOR OF A PAIR OF CONDUCTORS IN THE LEAD-IN CABLE AND THE POSITIVE LEAD SHALL BE CONNECTED TO THE COLOR-CODED CONDUCTOR OF THE CABLE PAIR.

DETECTOR LOOP WIRE INSTALLATION

- DETECTOR NOTES:**
1. THE DETECTOR LOOP SHALL BE CENTERED IN THE LANE IN WHICH IT IS SHOWN. ANY ADJUSTMENTS ARE TO BE MADE ONLY AT THE DIRECTION OF THE ENGINEER.
 2. THE DETECTOR LOOPS SHALL CONSIST OF THE NUMBER OF TURNS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
 3. ACCEPTANCE OF THE LOOPS AS METERED SHALL BE DETERMINED BY THE ENGINEER.
 4. ALL DETECTOR WIRES SHALL BE MARKED WITH WATERPROOF LABELS USING THE WIRING IDENTIFICATION SHOWN ON THE PLANS. THE + AND - OF EACH LOOP MUST BE USED TO IDENTIFY CURRENT FLOW. ALWAYS CONNECT THE BLACK WIRE OF EACH PAIR TO THE NEGATIVE (-) LOOP WIRE.
 5. ALL QUADRUPOLE LOOPS SHALL BE 2-4-2 DESIGN.
 6. THE CONTRACTOR SHALL CONTACT DISTRICT 6 OPERATIONS FOR ASSISTANCE IN DETECTOR LOOP LAYOUT AT LEAST 48 HOURS BEFORE INSTALLING DETECTOR LOOPS (Ph. # 217-558-6523)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC SIGNAL
 DETECTOR LOOP DETAILS**