

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 159 AND WICKLIFFE AVE.

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
NB LT LN CD #1	1	6 x 50	3-6-3	827.6	2.5
NB THRU LN CD #2	6	6 x 50	3-6-3	825.2	2.5
NB THRU LN CD #3	6	6 x 50	3-6-3	822.3	2.4
NB CCO #4	6	6 x 6	6	336.9	2.2
NB CCO #5	6	6 x 6	6	334.3	2.2
EB LT LN CD #6	4	6 x 50	3-6-3	809.5	2.1
EB THRU LN CD #7	4	6 x 50	3-6-3	807.3	2.1
SB LT LN CD #8	5	6 x 50	3-6-3	824.9	2.5
SB THRU LN CD #9	2	6 x 50	3-6-3	822.5	2.4
SB THRU LN CD #10	2	6 x 50	3-6-3	819.7	2.4
SB CCO #11	2	6 x 6	6	346.0	2.4
SB CCO #12	2	6 x 6	6	343.5	2.4
WB LT LN CD #13	3	6 x 50	3-6-3	822.3	2.4
WB THRU LN CD #14	3	6 x 50	3-6-3	820.1	2.4

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR ILL. RTE. 159 AND E. PARK AVE./SPRING ST.

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
NB LT LN CD #1	1	6 x 50	3-6-3	827.1	2.5
NB THRU LN CD #2	6	6 x 50	3-6-3	824.1	2.5
NB THRU LN CD #3	6	6 x 50	3-6-3	819.9	2.4
NB CCO #4	6	6 x 6	6	353.4	2.6
NB CCO #5	6	6 x 6	6	351.0	2.5
EB LT LN CD #6	4	6 x 50	3-6-3	800.7	1.9
EB RT LN CD #7	4	6 x 50	3-6-3	795.9	1.8
SB LT LN CD #8	2	6 x 50	3-6-3	830.2	2.6
SB THRU LN CD #9	5	6 x 50	3-6-3	829.1	2.6
SB THRU LN CD #10	5	6 x 50	3-6-3	828.5	2.6
SB CCO #11	5	6 x 6	6	353.9	2.6
SB CCO #12	5	6 x 6	6	351.2	2.6
WB LT LN CD #13	3	6 x 50	3-6-3	856.8	3.2
WB RT LN CD #14	3	6 x 50	3-6-3	852.4	3.1

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.