



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 161 AND COUNTRY CLUB RD / AIRPORT RD

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (R)
① EB LT TURN LN	6' x 50'	3-6-3	808	2.10
② EB THRU LN	6' x 40'	3-6-3	655	1.74
③ EB CCO	6' x 6'	5	245	2.05
④ WB LT TURN LN	6' x 50'	3-6-3	856	3.19
⑤ WB THRU LN	6' x 40'	3-6-3	704	2.83
⑥ WB CCO	6' x 6'	6	378	3.17

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

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT	RTE.	SECTION	COUNTY	SHEETS	SHEET	
*FILE#		DRAWN -	REVISED -			805	101 RS	MARION	61	58	
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -			CONTRACT NO. 76D46					
	PLOT DATE = *DATE*	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 20'=1"	SHEET NO. OF SHEETS STA. TO STA.					