



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR NEW POAG RD. AND IL-111

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (R)
① NB LT TURN CD	6 X 50	3-6-3	822.00	2.40
② NB THRU LN CD	6 X 50	3-6-3	819.00	2.34
③ NB THRU LN CD	6 X 50	3-6-3	819.00	2.34
④ NB CCO	6 X 6	6	367.00	2.91
⑤ NB CCO	6 X 6	6	367.00	2.91
⑥ SB LT TURN LN CD	6 X 50	3-6-3	852.00	3.00
⑦ SB THRU LN CD	6 X 50	3-6-3	850.00	3.00
⑧ SB THRU LN CD	6 X 50	3-6-3	850.00	3.00
⑨ SB CCO	6 X 6	8	697.00	4.82
⑩ SB CCO	6 X 6	8	697.00	4.82

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

E5

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT - NEW POAG RD. AND IL-111
SCALE: 20'=1" SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
582	(4, 5) RS	MADISON	71	69
CONTRACT NO. 76D47				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				