



DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 13 AND STATE ST.

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES ( $\mu H$ )	CALCULATED RESISTANCE OHMS ( $\Omega$ )
① EB_LI_TURN_LN	6' x 50'	3-6-3	819	2.34
② EB_THRU_LN	6' x 50'	3-6-3	817	2.30
③ EB_CCD	6' x 6'	6	338	2.25
④ WB_LI_TURN_LN	6' x 50'	3-6-3	838	2.77
⑤ WB_THRU_LN	6' x 50'	3-6-3	833	2.67
⑥ WB_CCD	6' x 6'	6	372	3.00

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

NOT TO SCALE

FILE NAME =	USER NAME = karlesol	DESIGNED -	REVISED -
o:\p\work\K\PWIDOT\KARLASAL\00155566\d818d44-sh1-TS.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.9756" / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/3/2010	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOPS @ IL 13 AND STATE ST.

SCALE: SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	26-1RS-3	ST. CLAIR	37	35
CONTRACT NO. 76D44				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				