

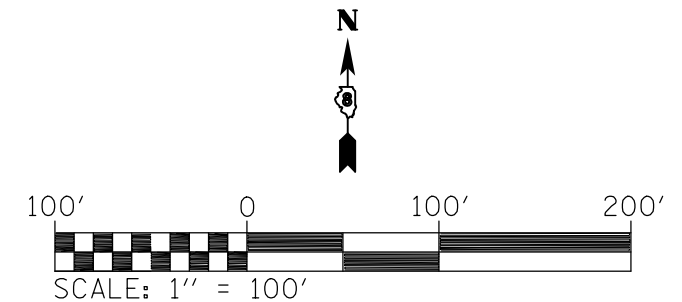
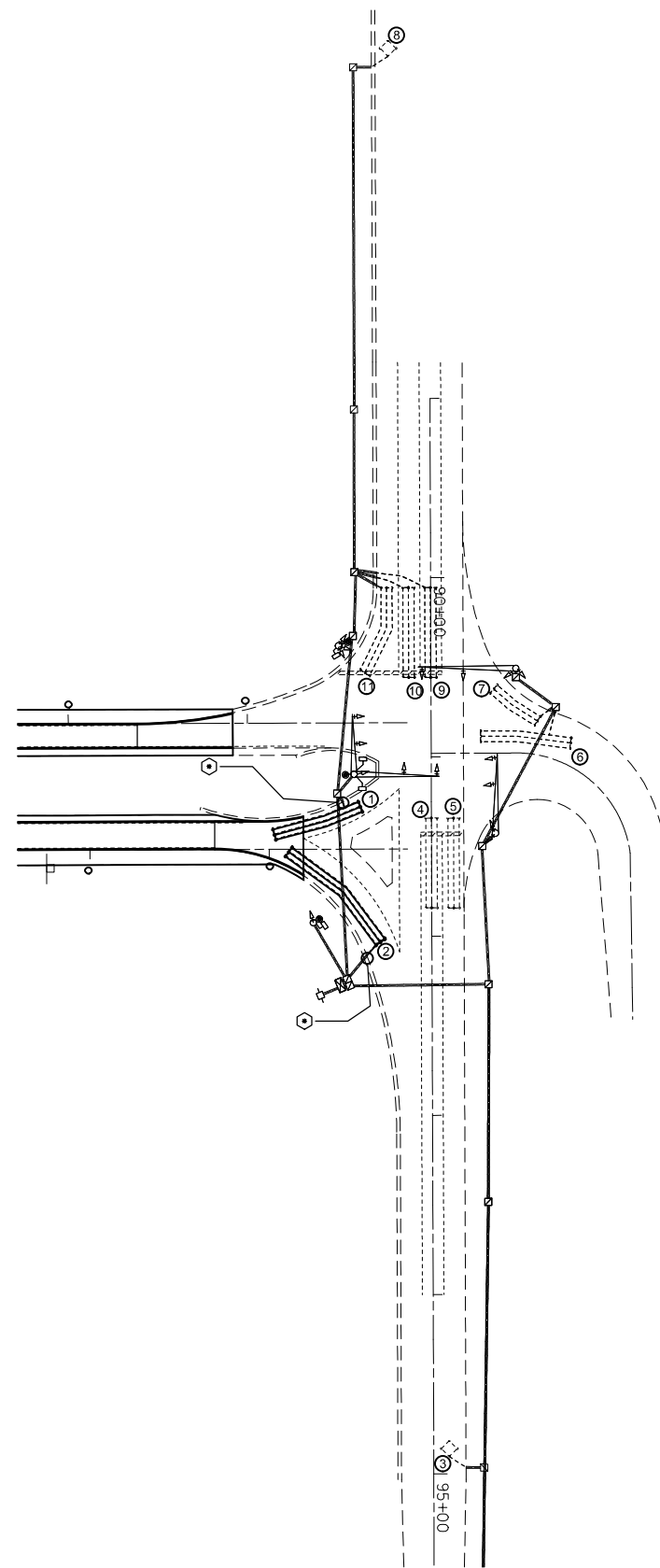
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS  
FOR IL 015 AND IL 015 AND FRANK SCOTT PARKWAY W.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB LT CD	3	6 x 50-Q	3-6-3	815	2.3
2. EB THRU-RT CD	3	6 x 72-Q	3-6-3	1124	2.4
3. NB CCO	6	6 X 6	6	206	2.1
4. NB LT CD	1	6 x 50-Q	3-6-3	809	2.1
5. NB THRU CD	6	6 x 50-Q	3-6-3	809	2.1
6. WB THRU-LT CD	3	6 x 50-Q	3-6-3	848	3.0
7. WB RT CD	3	6 x 30-Q	3-6-3	795	1.6
8. SB CCO	2	6 X 6	6	250	3.1
9. SB LT CD	5	6 x 50-Q	3-6-3	847	3.0
10. SB THRU CD	2	6 x 50-Q	3-6-3	849	3.0
11. SB RT CD	2	6 x 50-Q	3-6-3	849	3.0

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

Q=QUADRAPOLE

⊙ =SEE DETAIL A



FILE NAME =	USER NAME = conoverpj	DESIGNED -	REVISED -
et:\pw_work\p1dot\conoverpj\d0340760\d076g38-sh1-Tspln.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2013	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN  
IL 015 AND FRANK SCOTT PARKWAY W.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	(29-1,28-1,28-2,26-1)RS-2	ST. CLAIR	97	89
CONTRACT NO. 76G38				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				