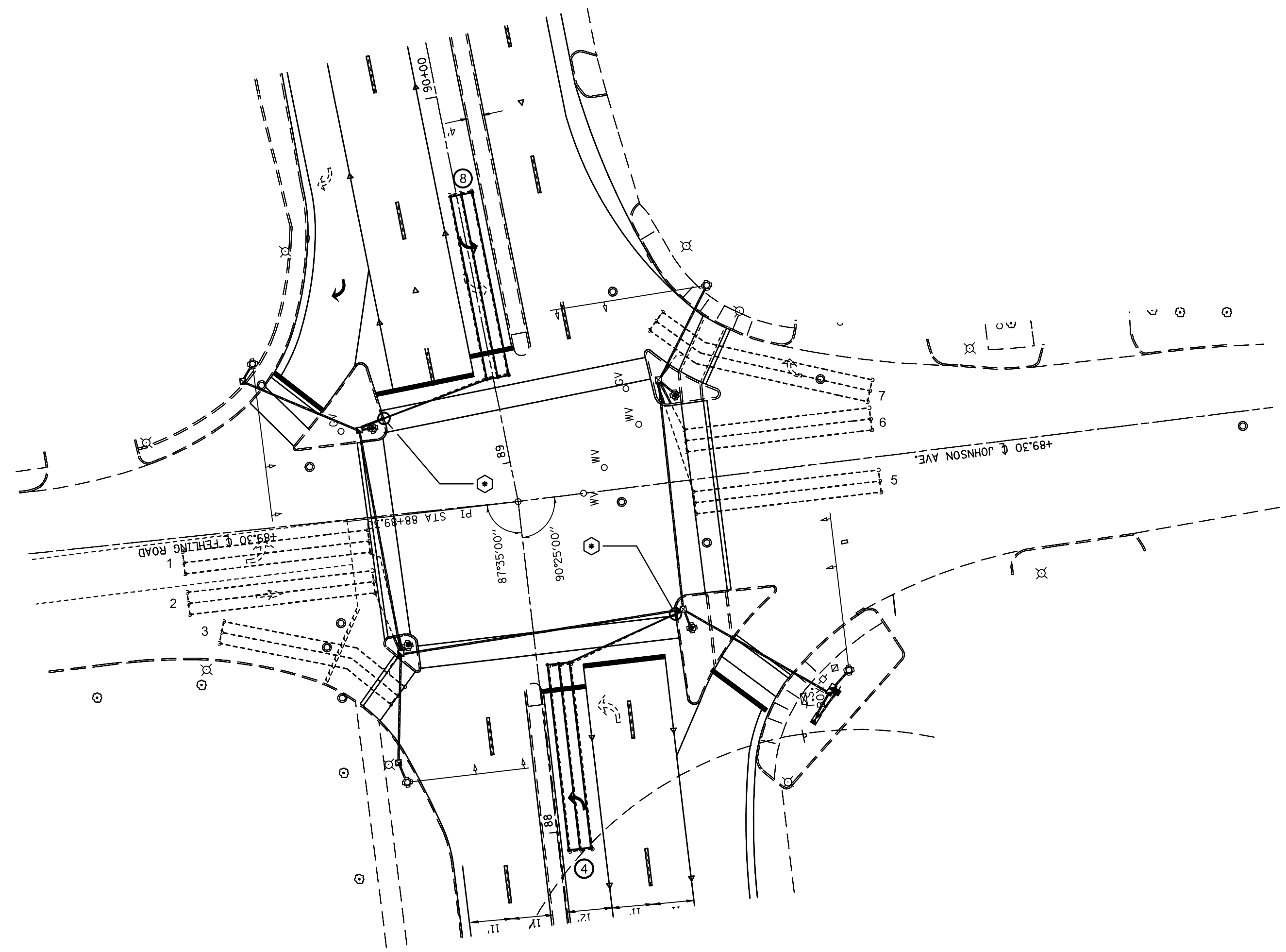
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 203 & FEHLING RD.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB LT CD	3	6 X 50-Q	3-6-3	826.5	2.5
2. EB THRU CD	3	6 X 50-Q	3-6-3	824.1	2.5
3. EB RT CD	3	6 X 60-Q	3-6-3	971.6	2.7
4. NB THRU-LT CD	1 & 6	6 X 50-Q	3-6-3	809.5	2.1
5. WB LT CD	4	6 X 50-Q	3-6-3	823.6	2.4
6. WB THRU CD	4	6 X 50-Q	3-6-3	820.1	2.4
7. WB RT CD	4	6 X 50-Q	3-6-3	819.0	2.3
8. SB THRU-LT CD	2 & 5	6 X 50-Q	3-6-3	824.8	2.9

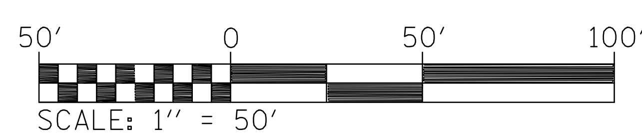
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

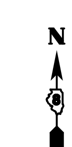
Q=QUADRAPOLE

(✱) =SEE DETAIL A



IL 203 & FEHLING RD.





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	PLOT DATE = 5/7/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
3 OF 5

SCALE: | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
594	(X-3,X-2)RS-1	MADISON	52	48

CONTRACT NO. 76G24

ILLINOIS | FED. AID PROJECT