

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 159 & GREENHAVEN DR.

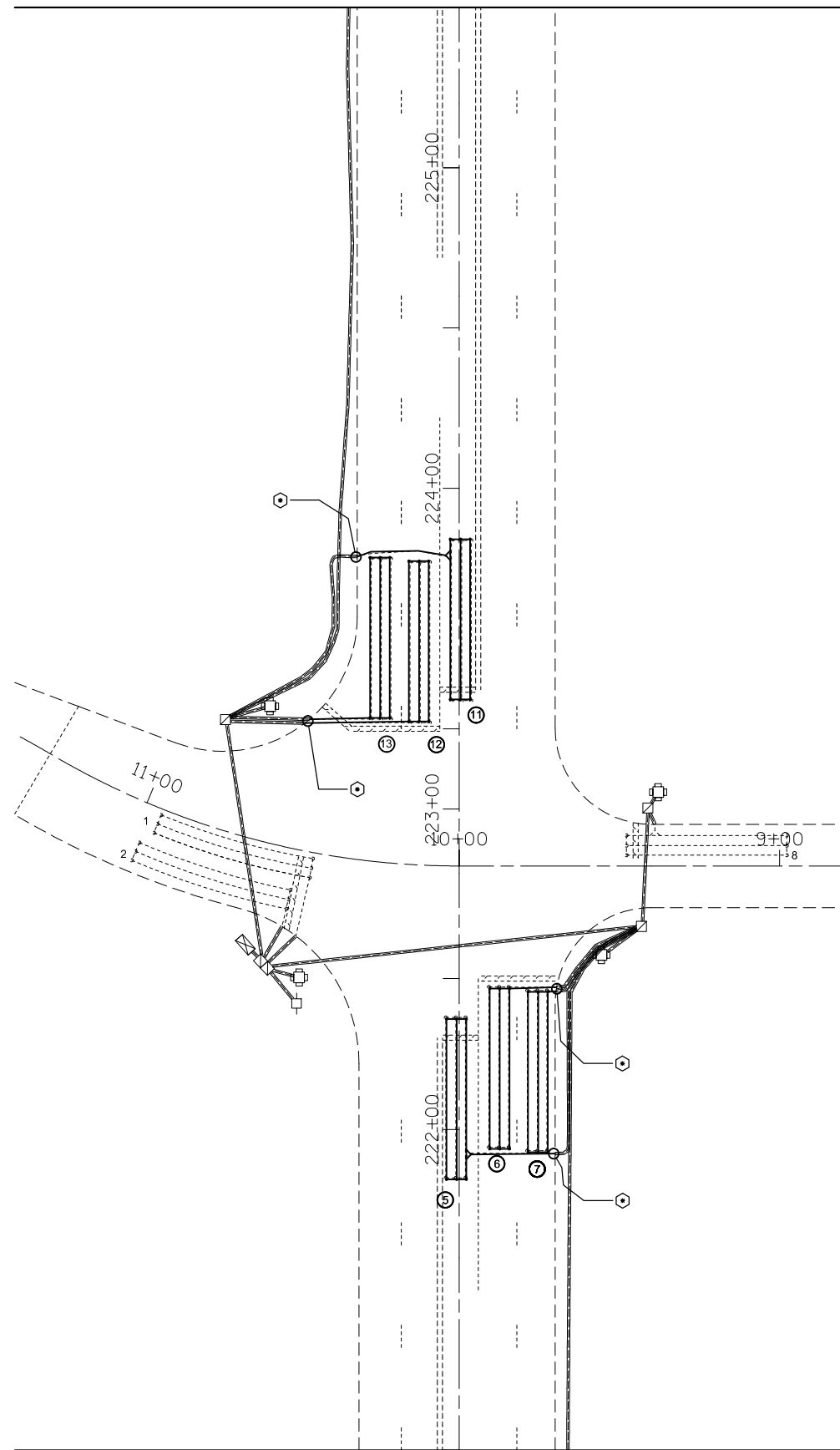
LOOP#	PHASE#	LOOP SIZE (FT. X FT.)	REQUIRED# OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB LT CD	4	6 X 50-Q	3-6-3	797.4	1.8
2. EB THRU CD	4	6 X 50-Q	3-6-3	794.4	1.8
3. NB CCO A	6	6 X 6	6	329.9	2.1
4. NB CCO B	6	6 X 6	6	327.5	2.0
5. NB LT CD	1	6 X 50-Q	3-6-3	842.3	2.9
6. NB THRU CD A	6	6 X 50-Q	3-6-3	827.6	1.6
7. NB THRU CD B	6	6 X 50-Q	3-6-3	825.2	2.5
8. WB THRU-LT CD	3	6 X 50-Q	3-6-3	828.2	2.6
9. SB CCO A	2	6 X 6	6	320.0	1.8
10. SB CCO B	2	6 X 6	6	317.1	1.8
11. SB LT CD	5	6 X 50-Q	3-6-3	815.5	2.3
12. SB THRU CD A	2	6 X 50-Q	3-6-3	804.7	2.0
13. SB THRU CD B	2	6 X 50-Q	3-6-3	801.6	1.9

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

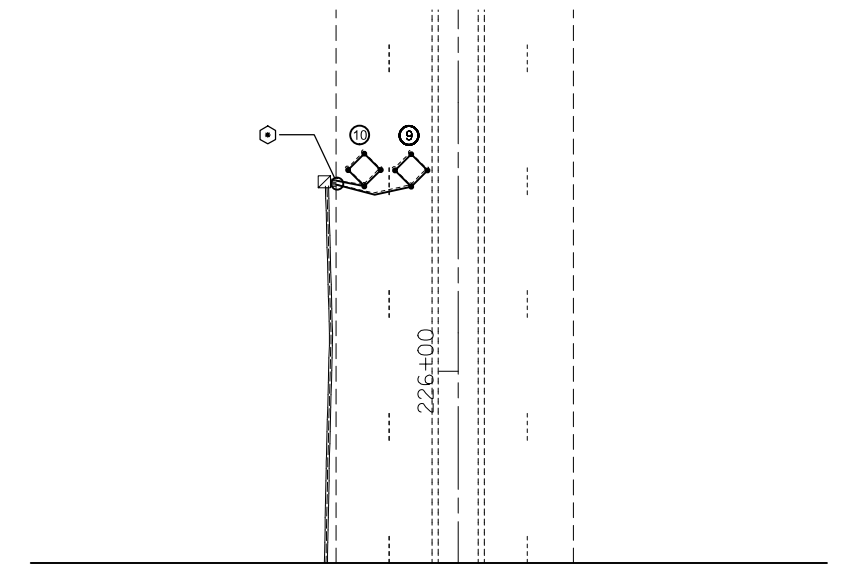
Q=QUADRAPOLE

⊙ =SEE DETAIL A

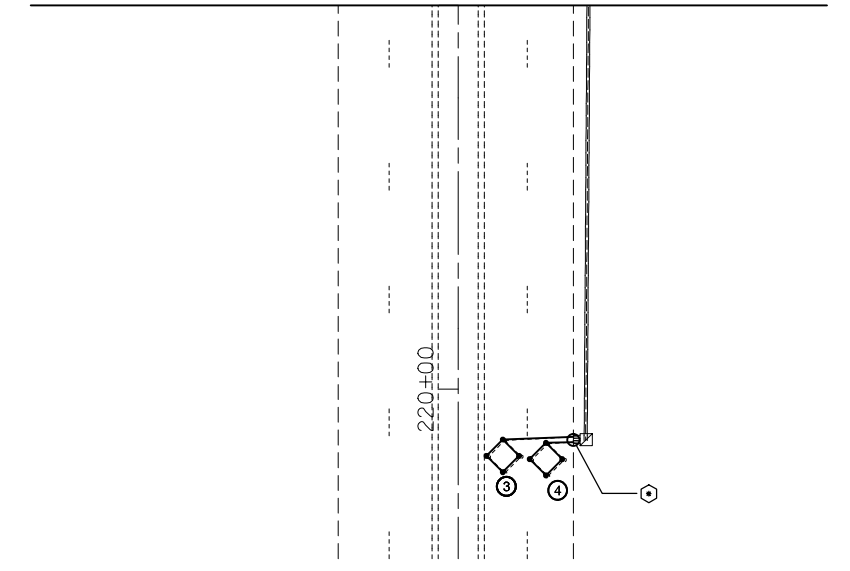
MATCHLINE A



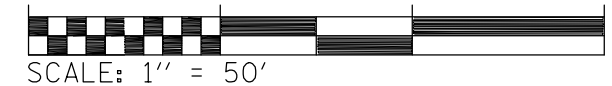
MATCHLINE B
IL 159 & GREENHAVEN DR.



MATCHLINE A



MATCHLINE B



FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -
c:\pwork\pwork\prestonme\d0344817\d876g955-sh1-TS.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/8/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
IL 159 & GREENHAVEN DR.

SCALE: SHEET NO. 10 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	(130-1, 130-2)RS-2	ST. CLAIR	36	36**
CONTRACT NO. 76G55			ILLINOIS FED. AID PROJECT	