

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 157 & I-255 A-C RAMPS

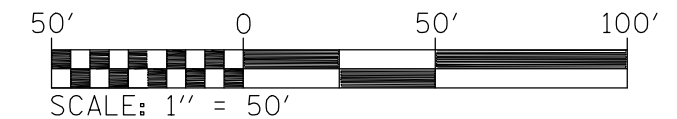
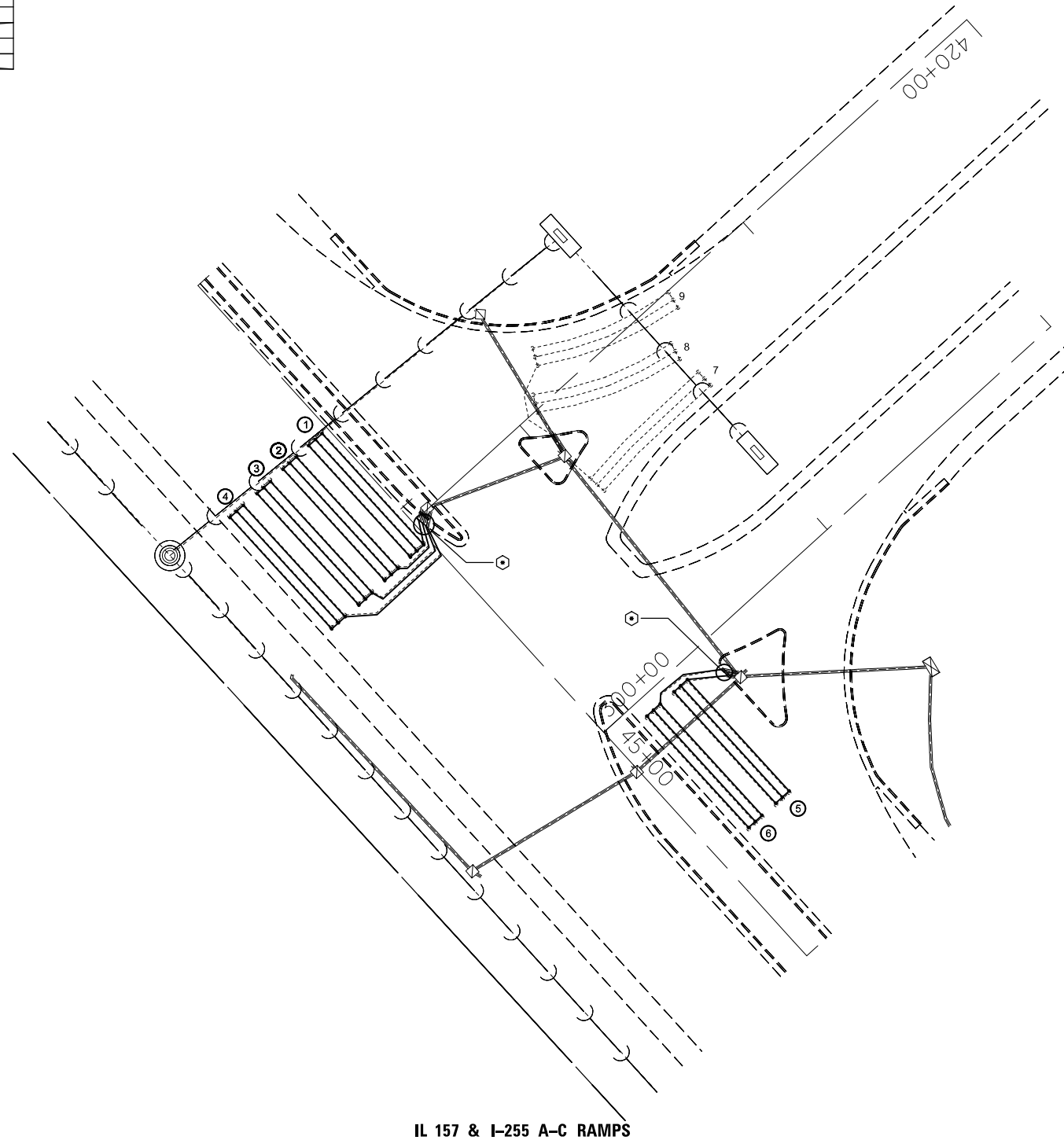
LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB LT CD	1	6 X 50-Q	3-6-3	838.8	2.8
2. EB THRU CD A	6	6 X 50-Q	3-6-3	837.3	2.8
3. EB THRU CD B	6	6 X 50-Q	3-6-3	845.0	2.9
4. EB THRU CD C	6	6 X 50-Q	3-6-3	848.3	3.0
5. WB THRU CD A	2	6 X 50-Q	3-6-3	810.2	2.1
6. WB THRU CD B	2	6 X 50-Q	3-6-3	806.7	2.1
7. NB LT CD	4	6 X 50-Q	3-6-3	838.1	2.8
8. NB RT CD A	O.L.A.	6 X 50-Q	3-6-3	839.5	2.8
9. NB RT CD B	O.L.A.	6 X 50-Q	3-6-3	843.6	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

NOTE: THIS LOCATION IS PATCHING ONLY. QUANTITIES HAVE BEEN INCLUDED FOR DETECTOR LOOP REPLACEMENT IN THE EVENT THAT THE LOCATIONS OF THE PATCHING DISTURB THE EXISTING LOOPS.



FILE NAME =	USER NAME = prestonm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISED -		CONTRACT NO. 76G80					
		DATE -	REVISED -		SCALE:	SHEET NO. _ OF _ SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	