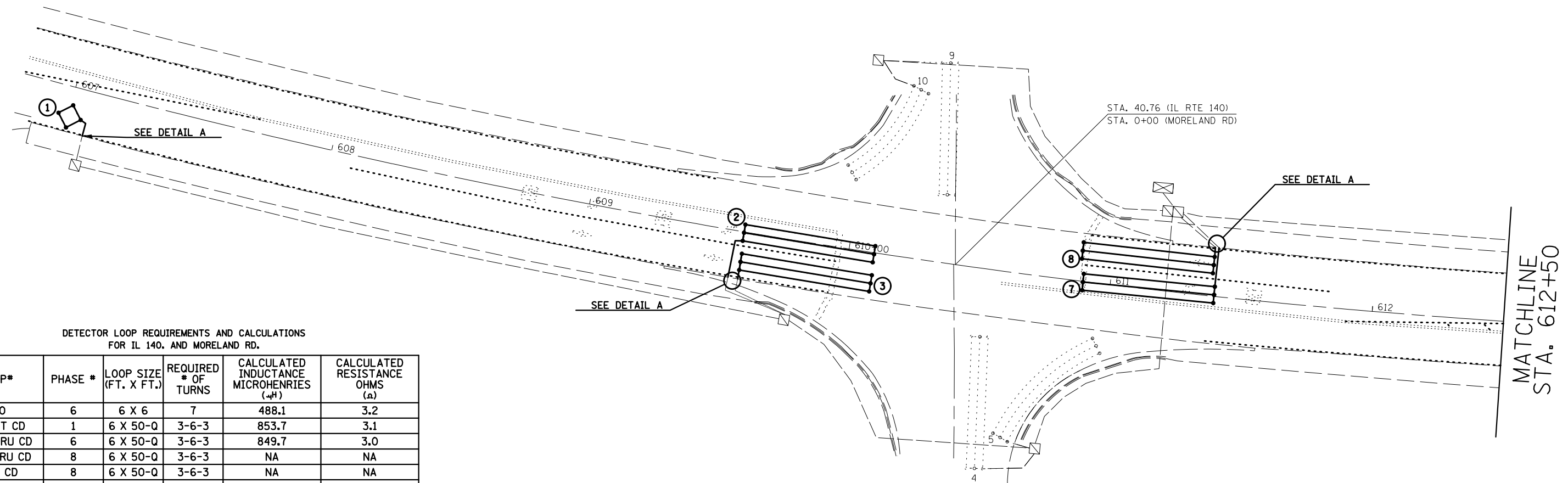


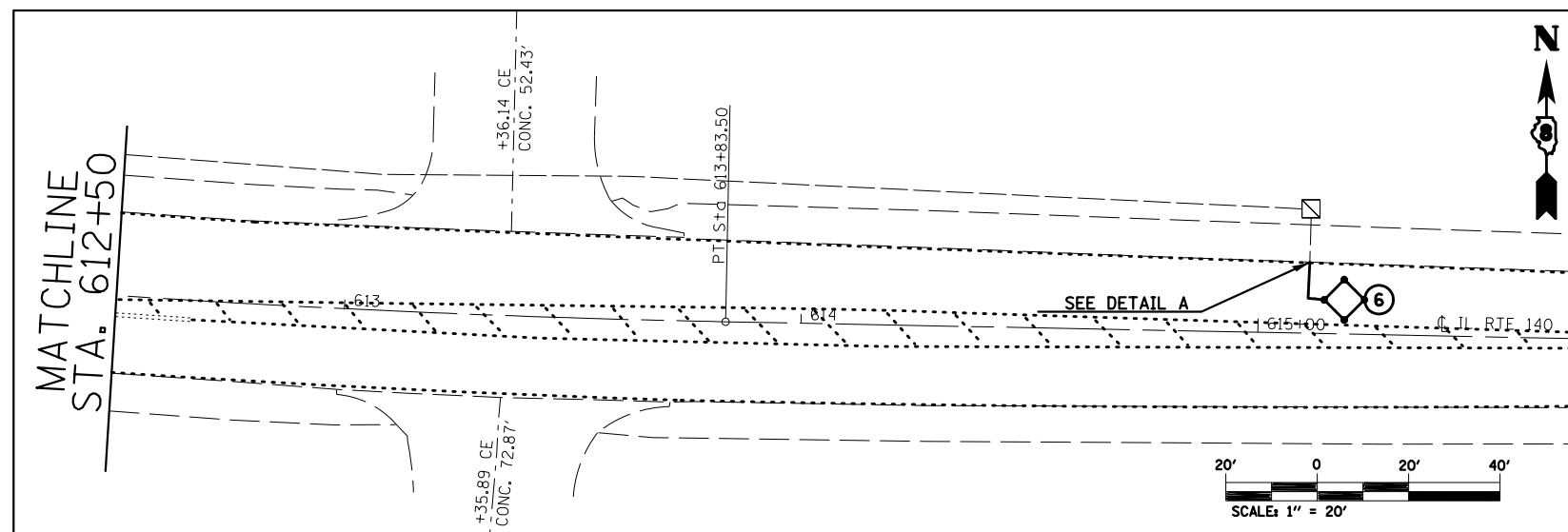


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 140. AND MORELAND RD.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μ H)	CALCULATED RESISTANCE OHMS (Ω)
1. WB CCO	6	6 X 6	7	488.1	3.2
2. WB LT CD	1	6 X 50-Q	3-6-3	853.7	3.1
3. WB THRU CD	6	6 X 50-Q	3-6-3	849.7	3.0
4. NB THRU CD	8	6 X 50-Q	3-6-3	NA	NA
5. NB RT CD	8	6 X 50-Q	3-6-3	NA	NA
6. EB CCO	2	6 X 6	7	461.2	2.6
7. EB LT CD	5	6 X 50-Q	3-6-3	798.5	1.9
8. EB THRU CD	2	6 X 50-Q	3-6-3	795.7	1.8
9. SB THRU CD	4	6 X 50-Q	3-6-3	NA	NA
10. SB RT CD	4	6 X 40-Q	3-6-3	NA	NA

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



FILE NAME =	USER NAME = chids1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN MORELAND RD.				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et\pwork\pwork\chids1\d0251881\d876e85-shd-TS.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	133 RS -6	MADISON	54	53
		CHECKED -	REVISED -								CONTRACT NO. 76E85			
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT			