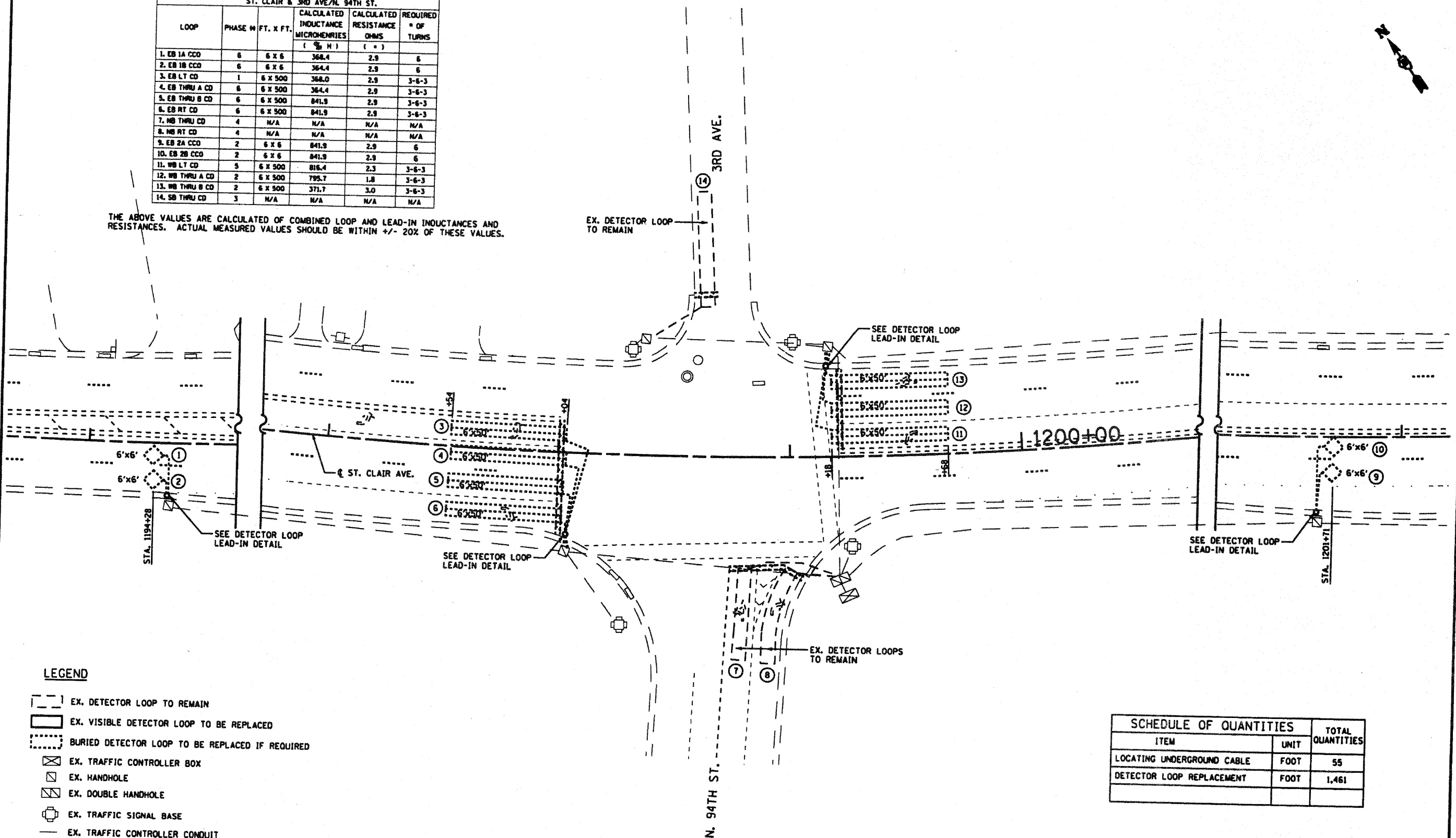


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR ST. CLAIR AVE AND 94th ST.

ST. CLAIR & 3RD AVE./N. 94TH ST.					
LOOP	PHASE	FT. X FT.	CALCULATED INDUCTANCE MICROHENRIES (μ H)	CALCULATED RESISTANCE OHMS (Ω)	REQUIRED # OF TURNS
1. EB 1A CCO	6	6 X 6	368.4	2.9	6
2. EB 1B CCO	6	6 X 6	368.4	2.9	6
3. EB LT CD	1	6 X 500	368.0	2.9	3-6-3
4. EB THRU A CD	6	6 X 500	364.4	2.9	3-6-3
5. EB THRU B CD	6	6 X 500	841.9	2.9	3-6-3
6. EB RT CD	6	6 X 500	841.9	2.9	3-6-3
7. NB THRU CD	4	N/A	N/A	N/A	N/A
8. NB RT CD	4	N/A	N/A	N/A	N/A
9. EB 2A CCO	2	6 X 6	841.9	2.9	6
10. EB 2B CCO	2	6 X 6	841.9	2.9	6
11. WB LT CD	5	6 X 500	816.4	2.3	3-6-3
12. WB THRU A CD	2	6 X 500	795.7	1.8	3-6-3
13. WB THRU B CD	2	6 X 500	371.7	3.0	3-6-3
14. SB THRU CD	3	N/A	N/A	N/A	N/A

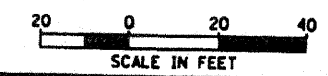
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCES AND RESISTANCES. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.



LEGEND

- EX. DETECTOR LOOP TO REMAIN
- EX. VISIBLE DETECTOR LOOP TO BE REPLACED
- BURIED DETECTOR LOOP TO BE REPLACED IF REQUIRED
- EX. TRAFFIC CONTROLLER BOX
- EX. HANDHOLE
- EX. DOUBLE HANDHOLE
- EX. TRAFFIC SIGNAL BASE
- EX. TRAFFIC CONTROLLER CONDUIT

SCHEDULE OF QUANTITIES		TOTAL QUANTITIES
ITEM	UNIT	
LOCATING UNDERGROUND CABLE	FOOT	55
DETECTOR LOOP REPLACEMENT	FOOT	1,461



FILE NAME	USER NAME	DESIGNED - CMV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT ST. CLAIR AVE. & 3RD AVE./N. 94TH ST.	SCALE	SHEET NO. OF SHEETS	STA. TO STA.	<table border="1"> <tr> <th>P.A.I. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>9166</td> <td>34-1RS-3</td> <td>ST. CLAIR</td> <td>87</td> <td>75</td> </tr> </table>	P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	9166	34-1RS-3	ST. CLAIR	87	75
P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS							SHEET NO.									
9166	34-1RS-3	ST. CLAIR	87							75									
FILE#		DRAWN - SJS	REVISED -																
 CONSULTING ENGINEERS Springfield, Illinois	PLOT SCALE - #SCALE# PLOT DATE - #DATE#	CHECKED - CMV	REVISED -																
		DATE - 10/21/2010	REVISED -																

ILLINOIS FED. AID PROJECT