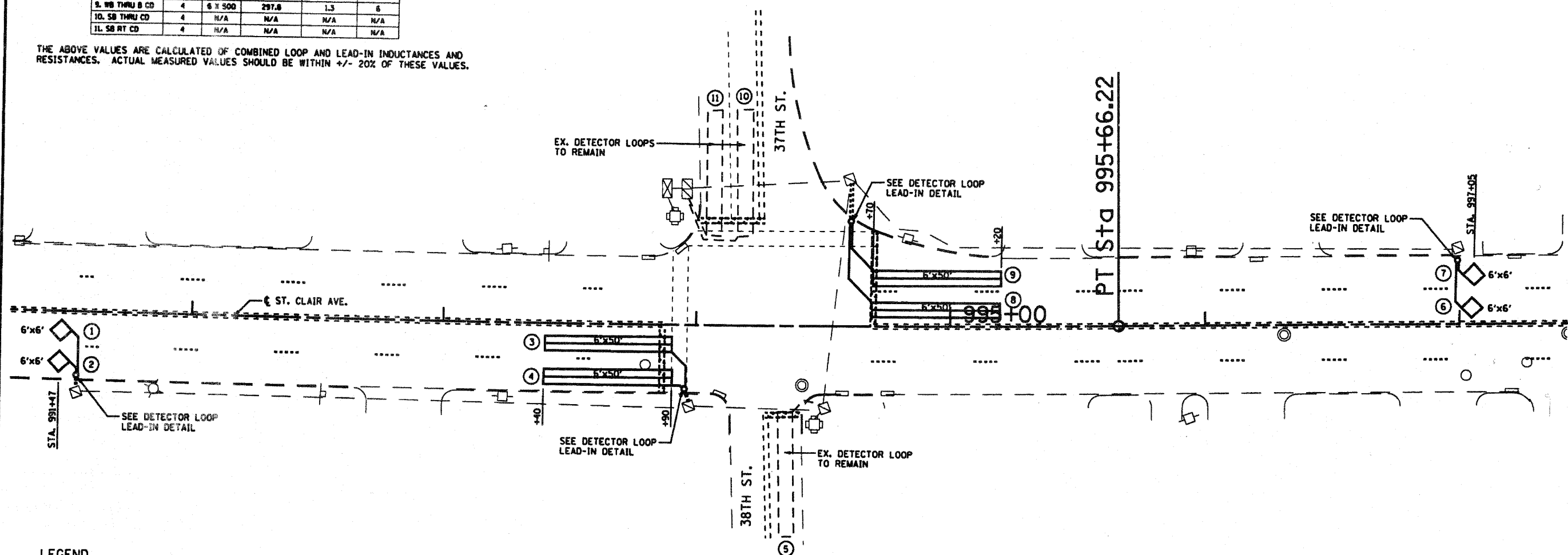


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR ST. CLAIR AVE AND 37th/38th ST.

ST. CLAIR & 37TH ST./38TH ST.						
LOOP	PHASE	W	FT. X FT.	CALCULATED INDUCTANCE MICROHENRIES (μ H)	CALCULATED RESISTANCE OHMS (Ω)	REQUIRED # OF TURNS
1. EB A CCO	2	6 X 6		370.8	3.0	6
2. EB B CCO	2	6 X 6		368.2	2.9	6
3. EB THRU A CD	2	6 X 500		563.2	2.7	3-6-3
4. EB THRU A CD	6	6 X 500		560.3	2.7	3-6-3
5. NB THRU CD	3	N/A		N/A	N/A	N/A
6. WB A CCO	4	6 X 6		952.0	2.9	3-6-3
7. WB B CCO	4	6 X 6		1054.78	3.0	3-6-3
8. WB THRU A CD	4	6 X 500		300.9	1.4	6
9. WB THRU B CD	4	6 X 500		297.6	1.3	6
10. SB THRU CD	4	N/A		N/A	N/A	N/A
11. SB RT CD	4	N/A		N/A	N/A	N/A

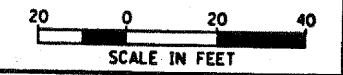
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCES AND RESISTANCES. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.



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	40
DETECTOR LOOP REPLACEMENT	FOOT	871



FILE NAME #FILE#	USER NAME #USER#	DESIGNED - CMV DRAWN - SJS CHECKED - CMV DATE - 10/21/2010	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT ST. CLAIR AVE. & 37TH ST./38TH ST.	F.A.U. RTE. 9166	SECTION 34-1RS-3	COUNTY ST. CLAIR	TOTAL SHEETS 87	SHEET NO. 70
				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 78006			

ILLINOIS FED. AID PROJECT