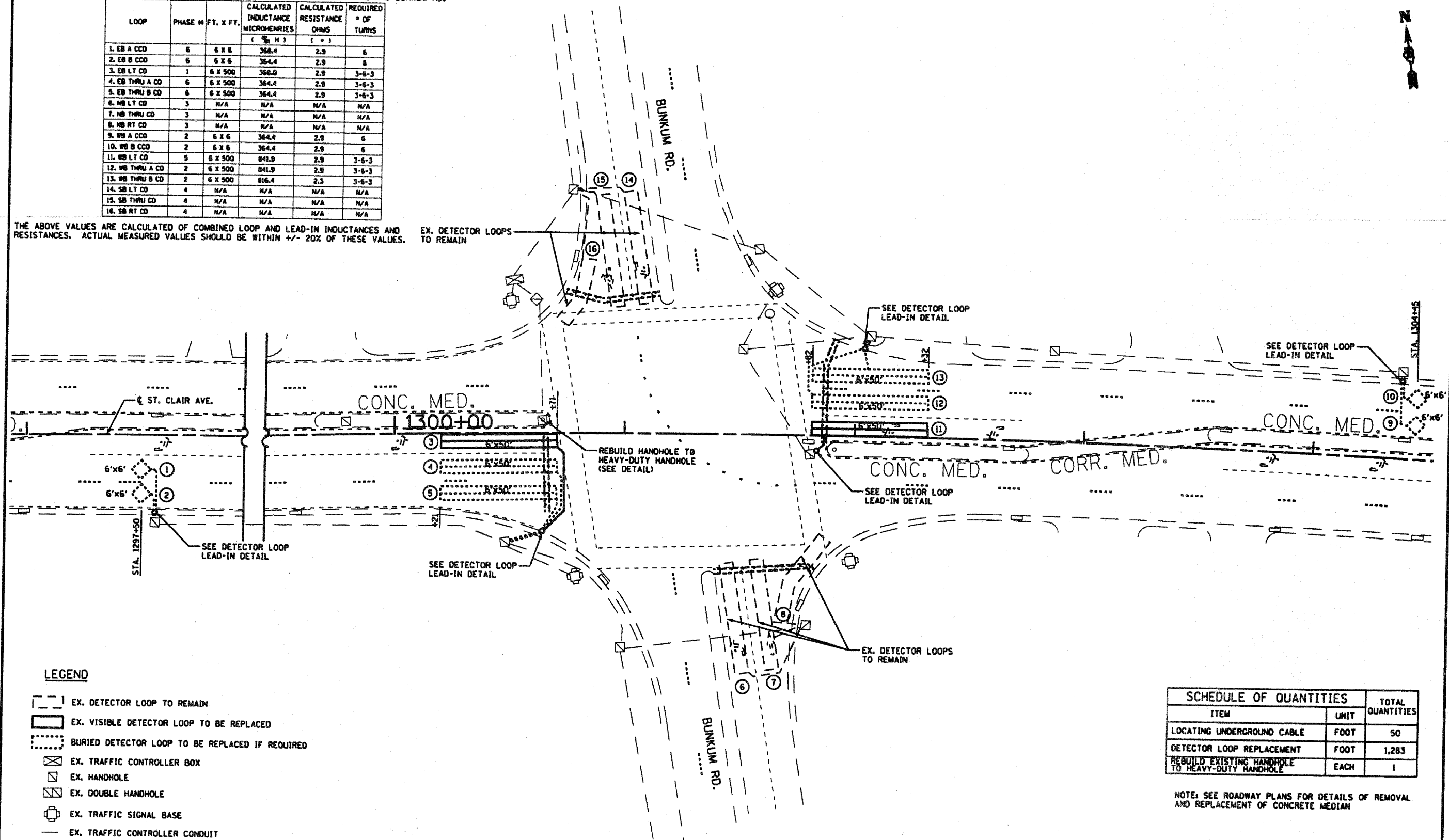


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR ST. CLAIR AVE AND BUNKUM RD.

LOOP	PHASE #	FT. X FT.	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)	REQUIRED # OF TURNS
1. EB A CCD	6	6 X 6	364.4	2.9	6
2. EB B CCD	6	6 X 6	364.4	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	364.4	2.9	3-6-3
6. NB LT CD	3	N/A	N/A	N/A	N/A
7. NB THRU CD	3	N/A	N/A	N/A	N/A
8. NB RT CD	3	N/A	N/A	N/A	N/A
9. WB A CCD	2	6 X 6	364.4	2.9	6
10. WB B CCD	2	6 X 6	364.4	2.9	6
11. WB LT CD	5	6 X 500	841.9	2.9	3-6-3
12. WB THRU A CD	2	6 X 500	841.9	2.9	3-6-3
13. WB THRU B CD	2	6 X 500	816.4	2.3	3-6-3
14. SB LT CD	4	N/A	N/A	N/A	N/A
15. SB THRU CD	4	N/A	N/A	N/A	N/A
16. 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.

EX. DETECTOR LOOPS TO REMAIN



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	50
DETECTOR LOOP REPLACEMENT	FOOT	1,283
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	1

NOTE: SEE ROADWAY PLANS FOR DETAILS OF REMOVAL AND REPLACEMENT OF CONCRETE MEDIAN



FILE NAME: #FILE#	USER NAME: #USER#	DESIGNED - CMV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT ST. CLAIR AVE. & BUNKUM RD.	F.A.U. RTE. 9166	SECTION 34-1RS-3	COUNTY ST. CLAIR	TOTAL SHEETS 87	SHEET NO. 77
PLOT SCALE: #SCALE#	PLOT DATE: #DATE#	DRAWN - SJS	REVISED -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. T6098 <small>ILLINOIS FED. AID PROJECT</small>				
DESIGNED - CMV	CHECKED - CMV	DATE - 10/21/2010	REVISED -							