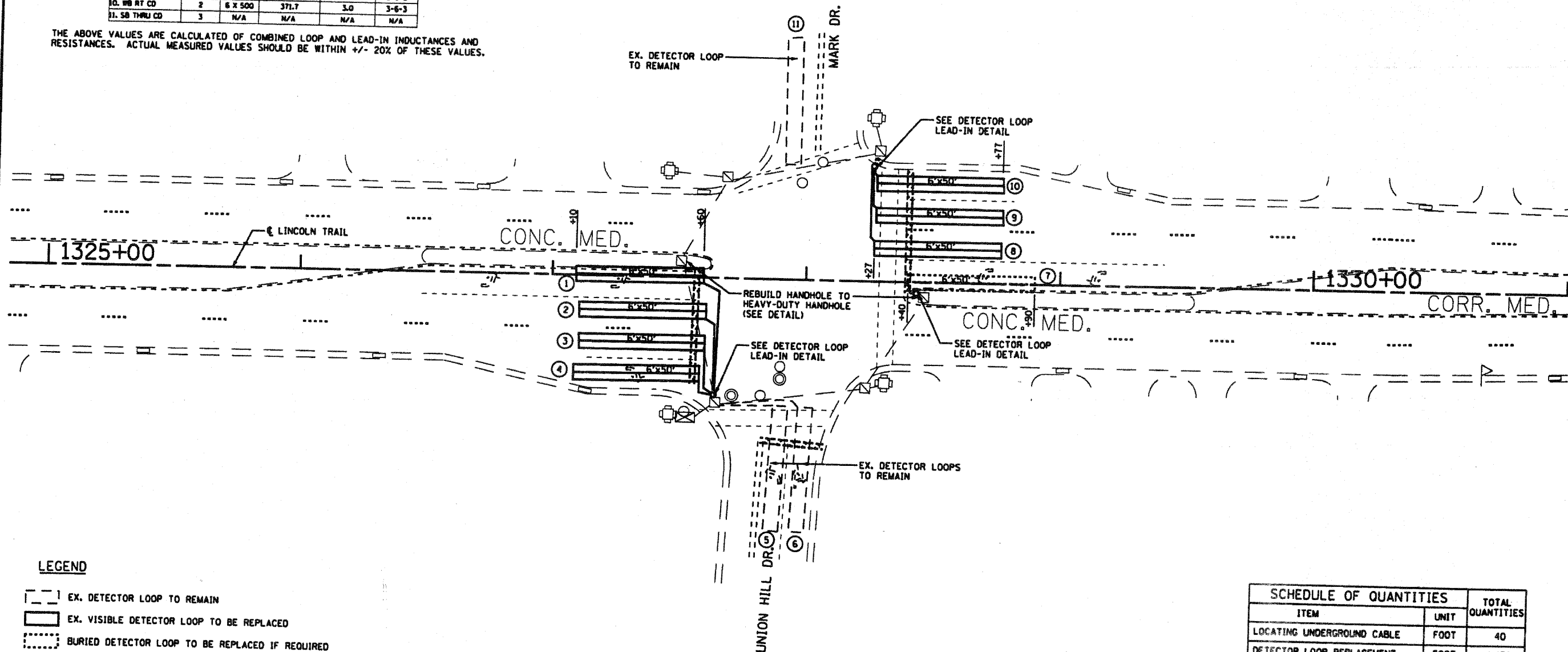


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR LINCOLN TRAIL AND MARK DR./UNION HILL DR.

LINCOLN TRAIL & MARK DR./UNION HILL RD.					
LOOP	PHASE	FT. X FT.	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)	REQUIRED # OF TURNS
1. EB LT CD	1	6 X 500	368.4	2.9	3-6-3
2. EB THRU A CD	6	6 X 500	364.4	2.9	3-6-3
3. EB THRU B CD	6	6 X 500	368.0	2.9	3-6-3
4. EB RT CD	6	6 X 500	364.4	2.9	3-6-3
5. NB LT CD	4	N/A	N/A	N/A	N/A
6. NB THRU CD	4	N/A	N/A	N/A	N/A
7. WB LT CD	5	6 X 500	816.4	2.3	3-6-3
8. WB THRU A CD	2	6 X 500	795.7	1.8	3-6-3
9. WB THRU B CD	2	6 X 500	371.7	3.0	3-6-3
10. WB RT CD	2	6 X 500	371.7	3.0	3-6-3
11. 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	40
DETECTOR LOOP REPLACEMENT	FOOT	1,456
REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	2

NOTE: SEE ROADWAY PLANS FOR DETAILS OF REMOVAL AND REPLACEMENT OF CONCRETE MEDIAN.
NEW DETECTOR LOOPS SHALL BE CENTERED WITHIN THE LANES AS SHOWN ON THE PROPOSED STRIPING PLAN.



FILE NAME	USER NAME	DESIGNED - CMV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT LINCOLN TRAIL & MARK DR./UNION HILL DR.	SCALE	SHEET NO. OF SHEETS STA. TO STA.	P.A.U. RYE. 9166	SECTION 34-IRS-3	COUNTY ST. CLAIR	TOTAL SHEETS	SHEET NO.
DESIGNED - CMV	REVISED -	87	79									
DRAWN - SJS	REVISED -											
CHECKED - CMV	REVISED -											
DATE - 10/21/2010	REVISED -			CONTRACT NO. T0006 ILLINOIS FED. AID PROJECT								