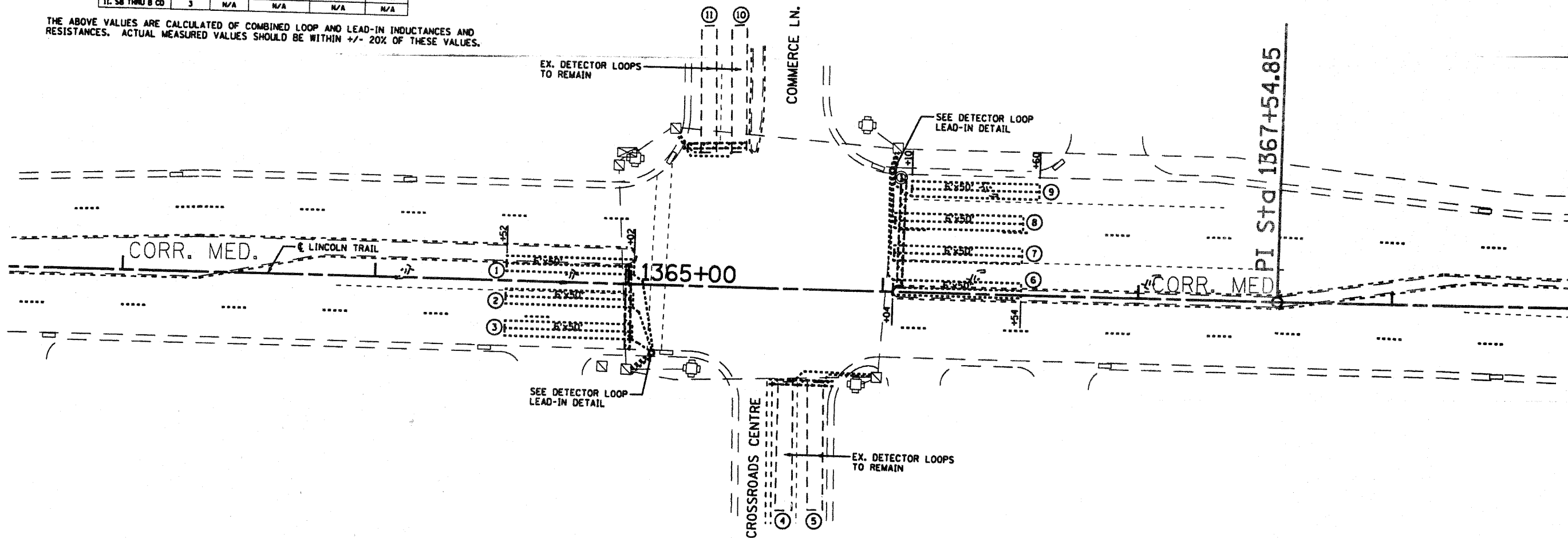


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR LINCOLN TRAIL AND COMMERCE LN.

LINCOLN TRAIL & COMMERCE LN.					
LOOP	PHASE #	FT. X FT.	CALCULATED INDUCTANCE MICROHENRIES (μ H)	CALCULATED RESISTANCE OHMS (Ω)	REQUIRED # OF TURNS
1. EB LT CD	5	6 X 500	368.4	2.9	3-6-3
2. EB THRU A CD	2	6 X 500	364.4	2.9	3-6-3
3. EB THRU B CD	2	6 X 500	368.0	2.9	3-6-3
4. NB THRU A CD	4	N/A	N/A	N/A	N/A
5. NB THRU B CD	4	N/A	N/A	N/A	N/A
6. WB LT CD	1	6 X 500	841.9	2.9	3-6-3
7. WB THRU A CD	6	6 X 500	841.9	2.9	3-6-3
8. WB THRU B CD	6	6 X 500	841.9	2.9	3-6-3
9. WB RT CD	6	6 X 500	841.9	2.9	3-6-3
10. SB THRU A CD	3	N/A	N/A	N/A	N/A
11. SB THRU B CD	3	N/A	N/A	N/A </tr	

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	35
DETECTOR LOOP REPLACEMENT	FOOT	1,312

NOTE: NEW DETECTOR LOOPS SHALL BE CENTERED WITHIN THE LANES SHOWN ON THE PROPOSED STRIPING PLANS.



FILE NAME: 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 LINCOLN TRAIL & COMMERCE LN.	P.L. & U. RITE. 9166 SECTION 34-IRS-3 COUNTY ST. CLAIR TOTAL SHEETS 87 SHEET NO. 81 CONTRACT NO. T6D06 <small>ILLINOIS FED. AID PROJECT</small>
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