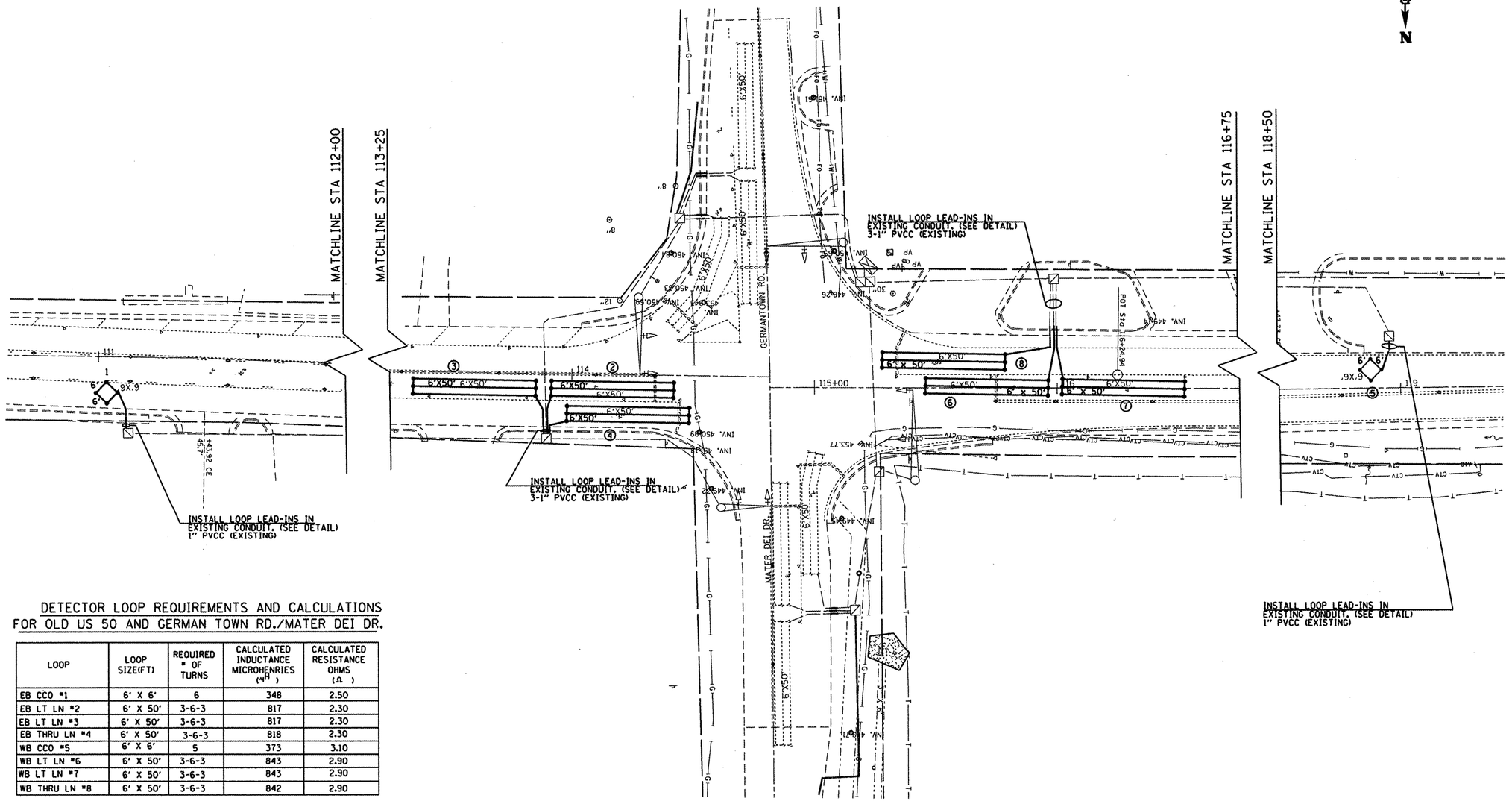

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR OLD US 50 AND GERMAN TOWN RD./MATER DEI DR.

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
EB CCO #1	6' X 6'	6	348	2.50
EB LT LN #2	6' X 50'	3-6-3	817	2.30
EB LT LN #3	6' X 50'	3-6-3	817	2.30
EB THRU LN #4	6' X 50'	3-6-3	818	2.30
WB CCO #5	6' X 6'	5	373	3.10
WB LT LN #6	6' X 50'	3-6-3	843	2.90
WB LT LN #7	6' X 50'	3-6-3	843	2.90
WB THRU LN #8	6' X 50'	3-6-3	842	2.90

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

E3 OF E3

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - TR	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE - 1/14/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT AT US 50 & GERMANTOWN RD.

SCALE: 1" = 20' | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1780	DISTBRESURFACING2010-3	ST. CLAIR, CLINTON	33	31
			CONTRACT NO. 76D77	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		