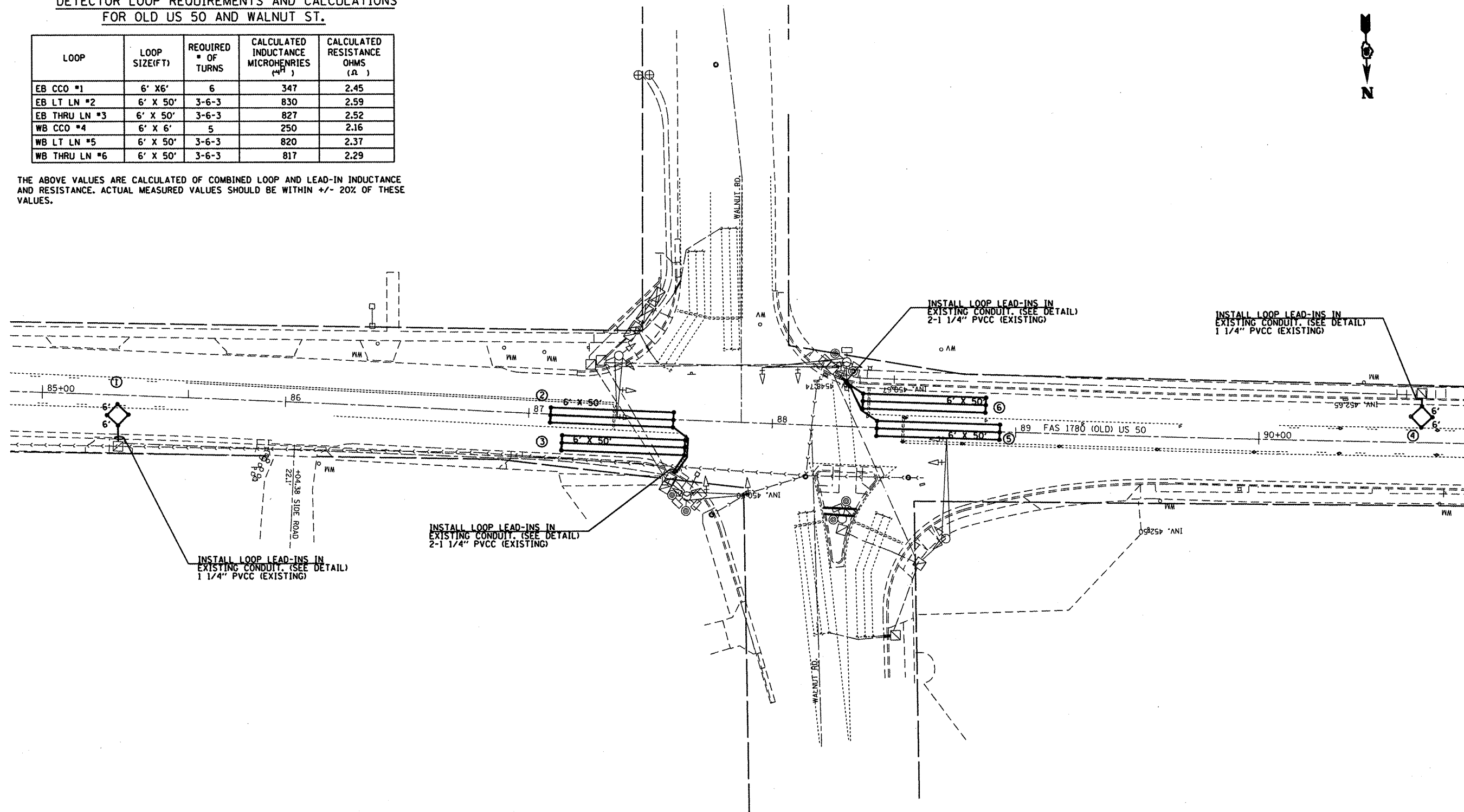


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR OLD US 50 AND WALNUT ST.

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
EB CCO #1	6' X 6'	6	347	2.45
EB LT LN #2	6' X 50'	3-6-3	830	2.59
EB THRU LN #3	6' X 50'	3-6-3	827	2.52
WB CCO #4	6' X 6'	5	250	2.16
WB LT LN #5	6' X 50'	3-6-3	820	2.37
WB THRU LN #6	6' X 50'	3-6-3	817	2.29

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



E2 OF E3

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT @ US 50 AND WALNUT RD.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - TR	REVISED -			1780	DISTBRESURFACING2010-3	ST. CLAIR, CLINTON	33	32	
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -			SCALE: 1" = 20'		SHEET NO. 2 OF 3 SHEETS		STA.	TO STA.
	PLOT DATE = #DATE#	DATE - 1/14/10	REVISED -			CONTRACT NO. 76D77					
						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					