



CURVE DATA  
 P.I. STA= 505+78.81  
 $\Delta = 3^{\circ} 40' 38''$   
 $D = 1^{\circ} 00' 00''$   
 $R = 5729.60'$   
 $T = 183.93'$   
 $L = 367.72'$   
 $E = 2.95'$   
 $S.E. =$   
 P.C. STA= 503+94.88  
 P.T. STA= 507+62.61

CU  
 P.I. STA  
 $\Delta = 2^{\circ} 1'$   
 $D = 1^{\circ} 0'$   
 $R = 5729$   
 $T = 110.5$   
 $L = 221.1$   
 $E = 1.07$   
 $S.E. =$   
 P.C. ST  
 P.T. ST

**DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR TYDEMAN AVE. AND IL - 111**

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (uH)	CALCULATED RESISTANCE OHMS (R.L.)
① NB CCO	6' X 6'	6	341.00	2.31
② NB CCO	6' X 6'	6	341.00	2.31
③ SB CCO	6' X 6'	5	230.00	1.70
④ SB CCO	6' X 6'	5	230.00	1.70

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

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT - TYDEMAN AVE. AND IL-111</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			582	(4, 5) RS	MADISON	71	65	
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -			<b>CONTRACT NO. 76D47</b>					
	PLOT DATE = #DATE#	DATE -	REVISED -			SCALE: 20'=1"	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		