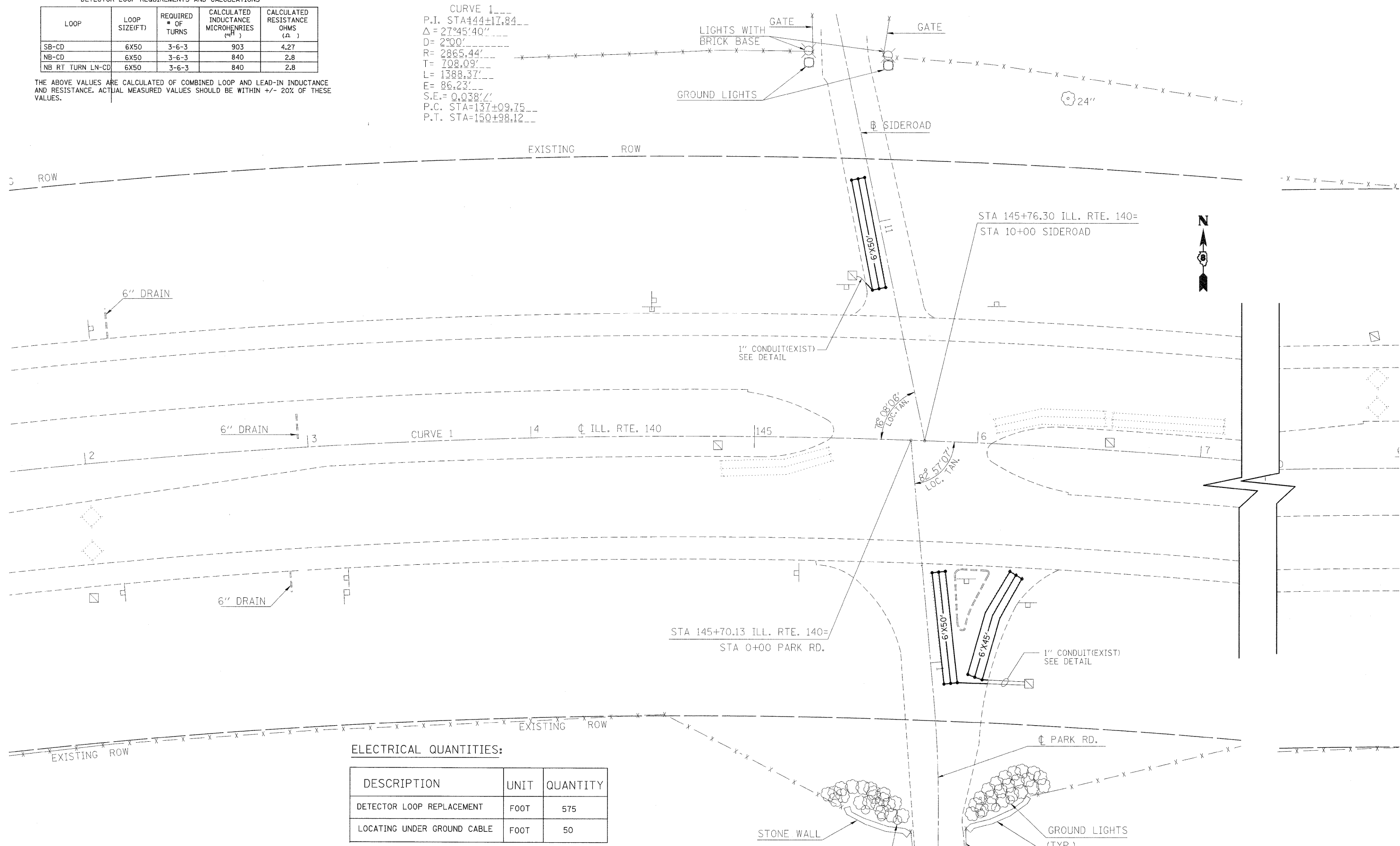


DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
SB-CD	6X50	3-6-3	903	4.27
NB-CD	6X50	3-6-3	840	2.8
NB RT TURN LN-CD	6X50	3-6-3	840	2.8

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

CURVE 1
 P.I. STA=144+17.84
 $\Delta = 27^{\circ}45'40''$
 $D = 2^{\circ}00'$
 $R = 2865.44'$
 $T = 708.09'$
 $L = 1388.37'$
 $E = 86.23'$
 $S.E. = 0.038\%$
 P.C. STA=137+09.75
 P.T. STA=150+98.12



ELECTRICAL QUANTITIES:

DESCRIPTION	UNIT	QUANTITY
DETECTOR LOOP REPLACEMENT	FOOT	575
LOCATING UNDER GROUND CABLE	FOOT	50

FILE NAME =
 #FILE#

USER NAME = #USER#
 DESIGNED -
 DRAWN -
 CHECKED -
 PLOT DATE = #DATE#

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT

SCALE: SHEET NO. 6 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(132-2,3,4, 133-1RS)	MADISON	122	87

CONTRACT NO. 76B80
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT