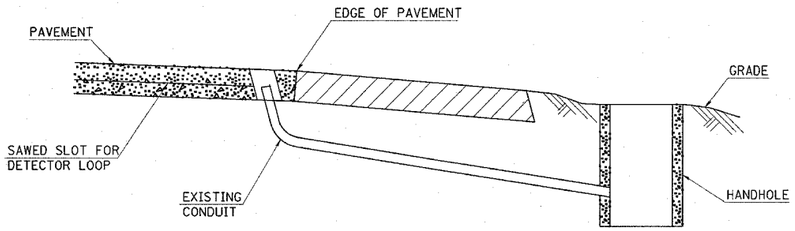
CONTRACT NO. 76907

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	ST. CLAIR	15	15
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* FAP 582/FAU 9237
** 82-3HB-1I, 82-3VB-1I



DETAIL
(NO SCALE)

RE-USE EXISTING DETECTOR LOOP LEAD-IN CONDUIT

1 DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2 REMOVE EXISTING CABLE TO HANDHOLE.
3 INSTALL LOOP LEAD-IN CONDUCTORS IN CONDUIT.
4 SPLICE NEW DETECTOR LOOP LEAD-IN CONDUCTORS TO EXISTING LEAD-IN CABLE IN HANDHOLE.
5 FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

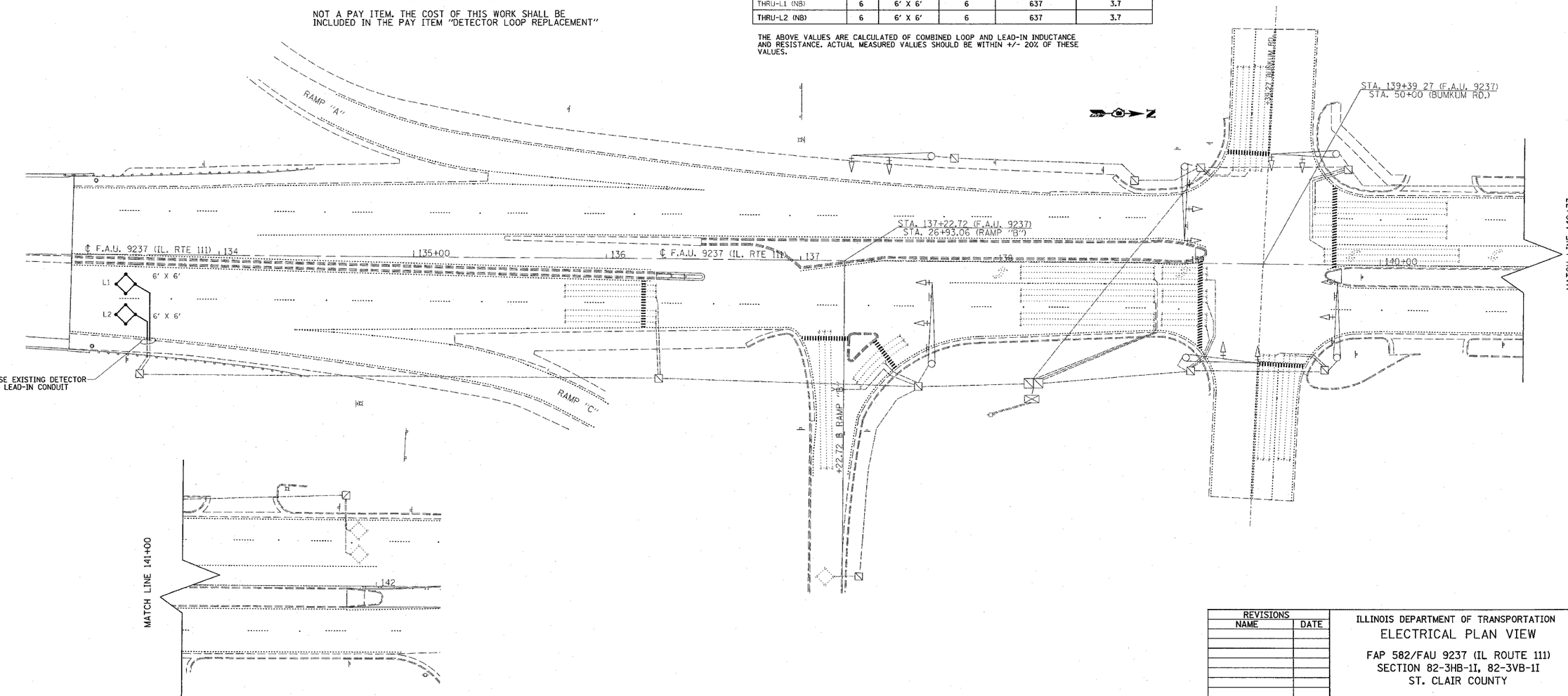
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL ROUTE 111 AND HIGHWAY 64.

LOOP	PHASE (ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
THRU-L1 (NB)	6	6' X 6'	6	637	3.7
THRU-L2 (NB)	6	6' X 6'	6	637	3.7

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

NOTES

1. THE EXISTING HANDHOLES AND CONDUITS SHALL BE REUSED. IF THEY HAVE BEEN DAMAGED, THEY SHALL BE REPLACED AT THE COST OF THE CONTRACTOR WITH NO ADDITIONAL COMPENSTION AND TO THE SATISFACTION OF THE ENGINEER.
2. THE TOTAL QUANTITY OF DETECTOR LOOP, REPLACEMENT AT THIS INTERSECTION IS 97 FEET. IF ADDITIONAL DETECTOR LOOPS ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED; THEREFORE, THE ACTUAL QUANTITY MAY VARY.



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ELECTRICAL PLAN VIEW

FAP 582/FAU 9237 (IL ROUTE 111)
SECTION 82-3HB-1I, 82-3VB-1I
ST. CLAIR COUNTY

SCALE: VERT.
HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
REFERENCE = REF