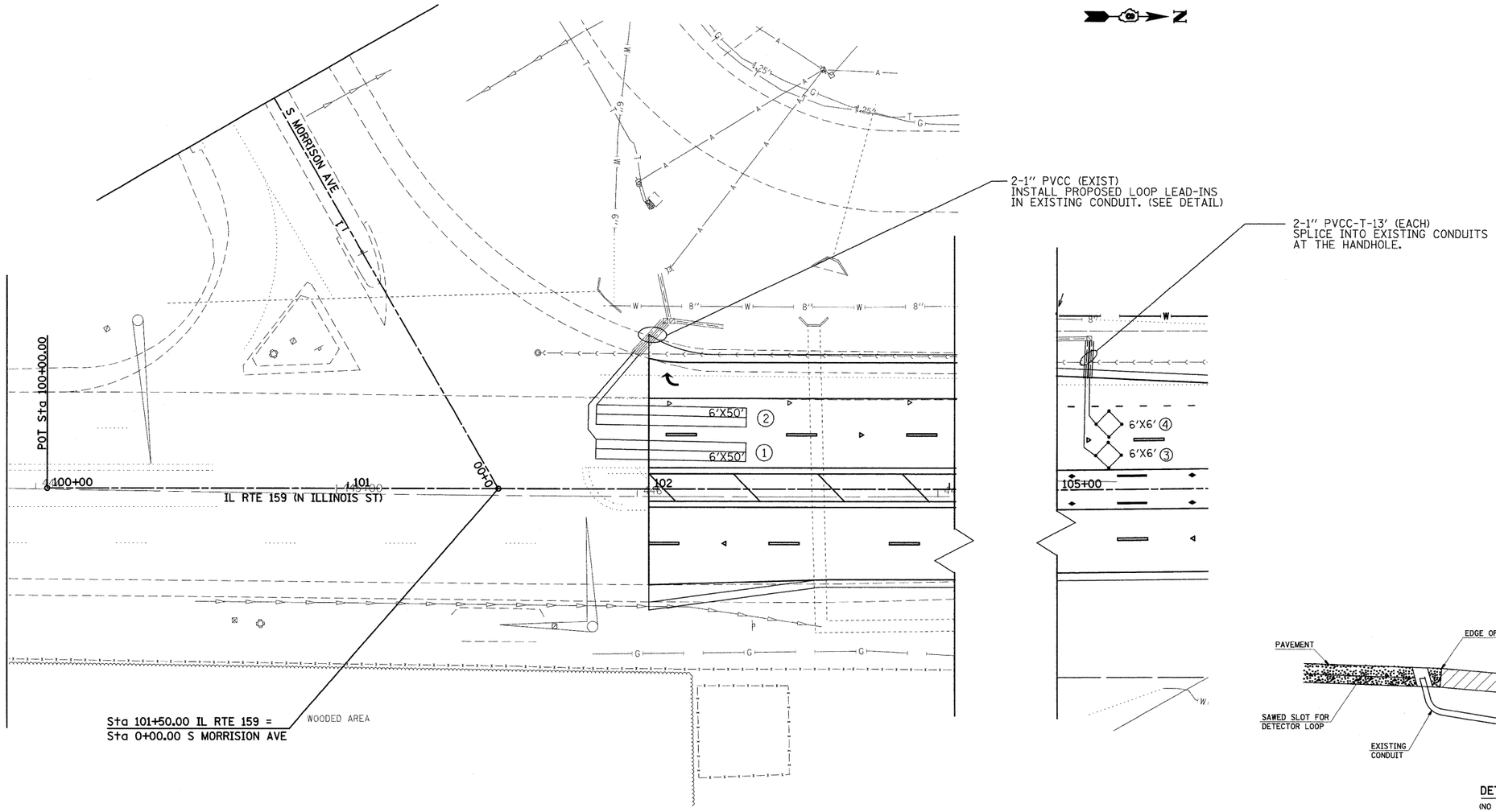

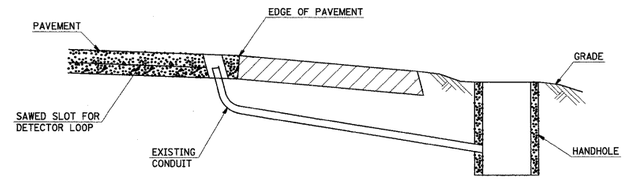

DETAIL
(NO SCALE)

DETECTOR LOOP REPLACEMENT

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 159 AND MORISSON AVE, NORTH LEG

LOOP	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
S.B.THRU LN#1	6'X50'	3-6-3	810	2.15
S.B.THRU LN#2	6'X50'	3-6-3	810	2.15
CCO#3	6'X6'	6	348	2.5
CCO#4	6'X6'	6	348	2.5

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

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"

20' 0 20' 40'
SCALE: 1" = 20'

FILE NAME = c:\pw_work\PWIDOT\PATELBM\dms79810\D876830-shta-ts.dgn	USER NAME = patelbm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/28/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN – IL 159 @ S. MORRISON AVE.

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
600	60-(30,31,128)-1	MADISON	399	177
		CONTRACT NO. 76830		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		