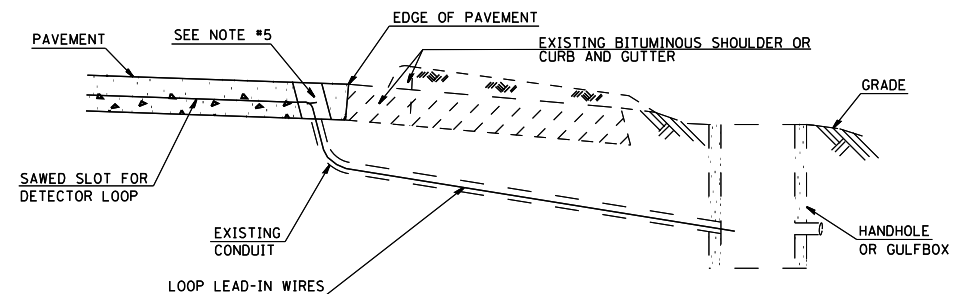


LOOP	PHASE (Φ)	LOOP SIZE	REQUIRED NO. OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. SB CCO	6	6' x 12'	6	456.46	2.23
2. SB LT CD	1	6' x 50'Q	3-6-3	822.96	2.43
3. SB THRU CD	6	6' x 50'Q	3-6-3	817.24	2.30
4. EB LT CD	3	6' x 50'Q	3-6-3	797.88	1.86
5. EB THRU DC	8	6' x 50'Q	3-6-3	793.92	1.77
6. NB CCO	2	6' x 6'	6	329.02	2.05
7. NB LT CD	5	6' x 50'Q	3-6-3	814.60	2.24
8. NB THRU CD	2	6' x 50'Q	3-6-3	811.52	2.17
9. WB THRU CD	4	6' x 50'Q	3-6-3	828.24	2.55

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

Q=QUADRAPOLE

\* =SEE DETAIL "A"



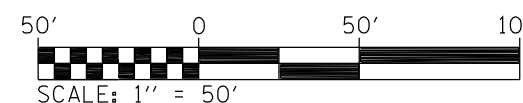
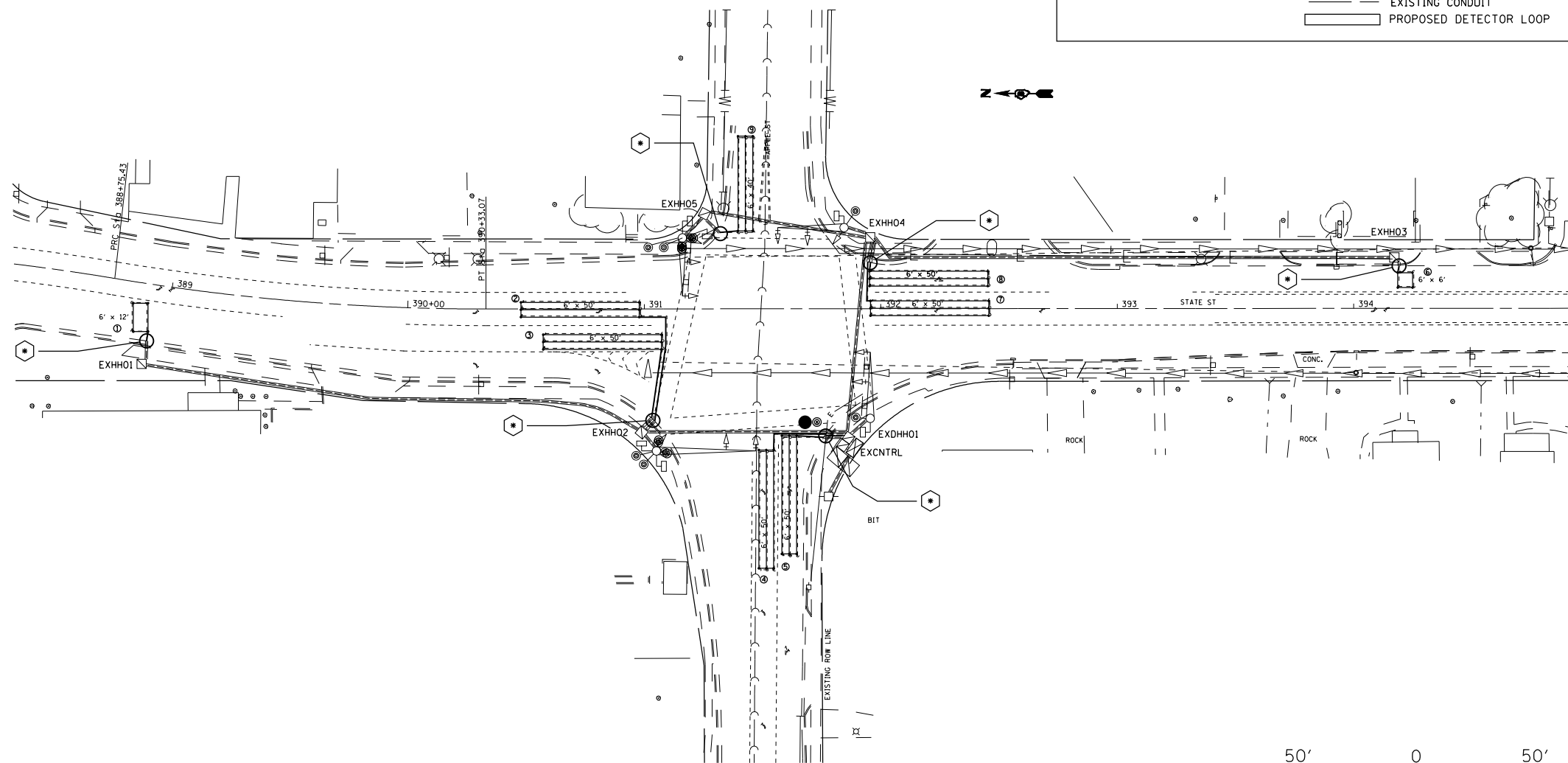
**DETAIL A**  
(NO SCALE)  
**INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT**

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
5. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.
6. LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

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

**DETECTOR LOOP REPLACEMENT LEGEND**

- EX. HANDHOLE
- EX. DETECTOR LOOP
- ⊠ EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- ▭ PROPOSED DETECTOR LOOP



FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP REPLACEMENT IL 13 /15 &amp; APPLE DETECTOR LOOP REPLACEMENT PLAN</b>	FAP	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 8\Projects\0876\DRAWING\CADsheets\0876J16-sht-ts.dgn	PLLOT SCALE = 59.8038' / in.	CHECKED -	REVISED -			103	(27,25,38,56)RS	ST. CLAIR	87	83	
	PLLOT DATE = 2/13/2019	DATE -	REVISED -			CONTRACT NO. 76J16					
						SCALE:	SHEET NO. TS07 OF 11 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT