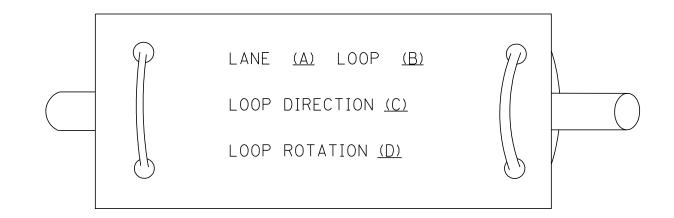
## LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOC (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OU) NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE D WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAF DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKE NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO TH
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AN THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORI E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESID WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE 18'' (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLAN PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

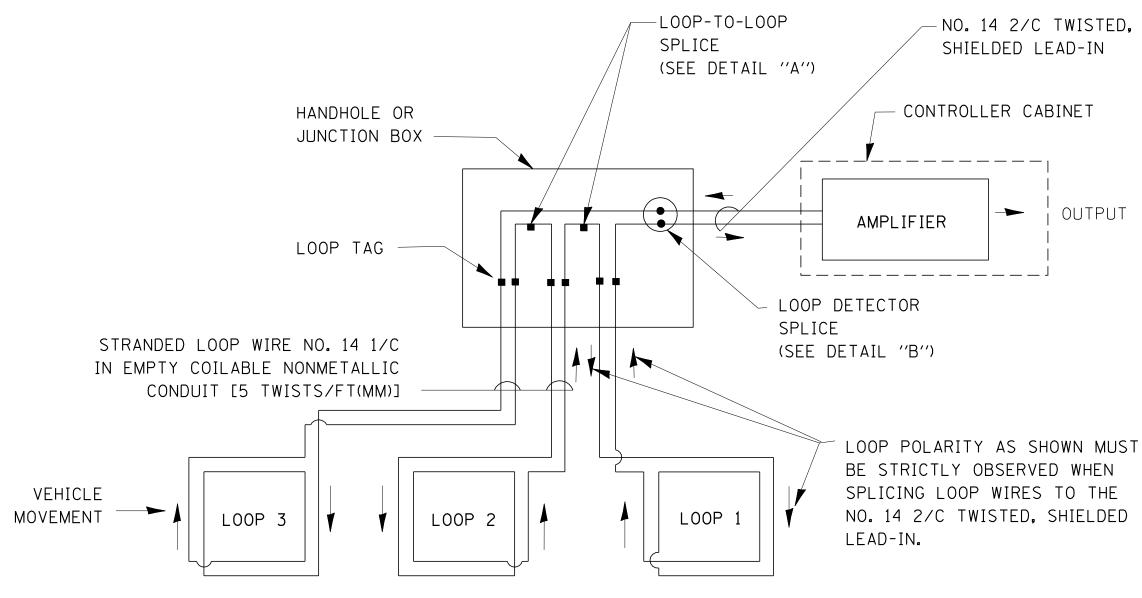
## LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADW
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE

FILE NAME =	USER NAME = bauerdl	DESIGNED -	DAD	REVISED -
c:\pw_work\PWIDOT\BAUERDL\d0108315\ts05	DRAWN -	ВСК	REVISED -	
	PLOT SCALE = 50.0000 ′ / IN.	CHECKED -	DAD	REVISED -
	PLOT DATE = 11/4/2009	DATE -	10-28-09	REVISED -

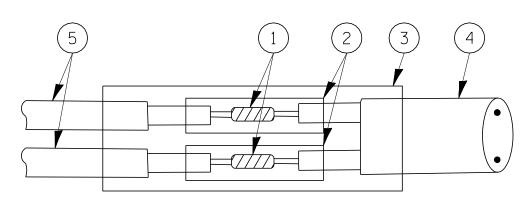
STATE OF ILLINOIS DEPARTMENT OF TRANSPOP	RTATION SCALE: NONE SHEET NO. 1 OF 6 SHEETS						
	7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQU						
	6 PRE-FORMED LOOP						
Ε.	<ul> <li>(4) NO. 14 2/C TWISTED, SHIELDED CABLE.</li> <li>(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.</li> </ul>						
	3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENG						
ON.	2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LEN						
ΔΥ	OF THE SOLDER SHALL BE SMOOTH.						
	LOOP DETECTOR SPLICE WESTERN UNION SPLICE SOLDERED WITH ROSIN CO						
	DETAIL "A" <u>PRE-F</u> LOOP-TO-LOOP SPLICE						
NS, WHERE NEW CONCRETE Hall BE IN ACCORDANCE WITH	DETAIL "A" LOOP-TO-LOOP SPLICE						
TORCHES OR OTHER Soldering operations.							
WIRE BRUSHING AND HEAT DETECTOR WIRE SHALL E SPACED NO MORE THAN	5     1     1     2     5						
DANCE WITH LOCAL AND BE INSTALLED IN WET DUE SUCH AS DUST AND	THE SAW-CUT DEPTH SHALL BE TO THE TOP LOOP CORNERS SHALL BE DRILLED WITH A 2						
ID DIVEHOLES MARKED AT	SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF THE CAN OUT DEPTH CHARLE DE TO THE TOP						
HE HANDHOLE HOOKS.	<ul> <li>SAW-CUTS SHALL BE A MINIMUM WIDTH OF</li> </ul>						
ED BY LANE AND LOOP	LOOPS SHALL BE SPLICED IN SERIES.						
DETECTOR LOOPS IN FIC SIGNAL DESIGN DRAWINGS AND PRESENT	DETECTOR LOOP WIRING SCHEMATIC						
OP, LOOP ROTATION T), LOOP CABLE	MOVEMENT LOOP 3 LOOP 2						
IN THE HANDHOLE.	VEHICLE						



5/16" (8 mm).

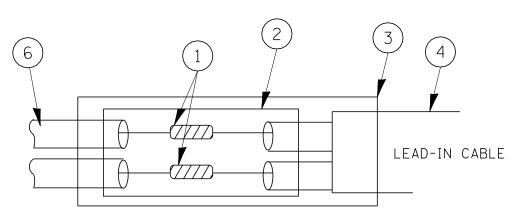
IN CONCRETE, P OF THE REINFORCEMENT.

2" (50 mm) DIAMETER CORE.



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

YPE I LOOP



FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE

CORE FLUX. ALL EXPOSED SURFACES

NGTH 3" (75 mm), UNDERWATER GRADE.

GHT 6'' (150 mm), UNDERWATER GRADE.

JAI

ONE AL DESIGN DETAILS		F.A.P. Rte.	SECT	FION	COUNTY	TOTAL SHEETS	SHEET NO.	
		334	TR-TS		LAKE	58	48	
			TS-05		CONTRACT NO. 60T88			
5	STA.	TO STA.	FED. RO	AD DIST. NO. 1	ILLINOIS FED. A	ID PROJECT		