

FIGURE 1  
TYPICAL LOOP SLOT CONSTRUCTION

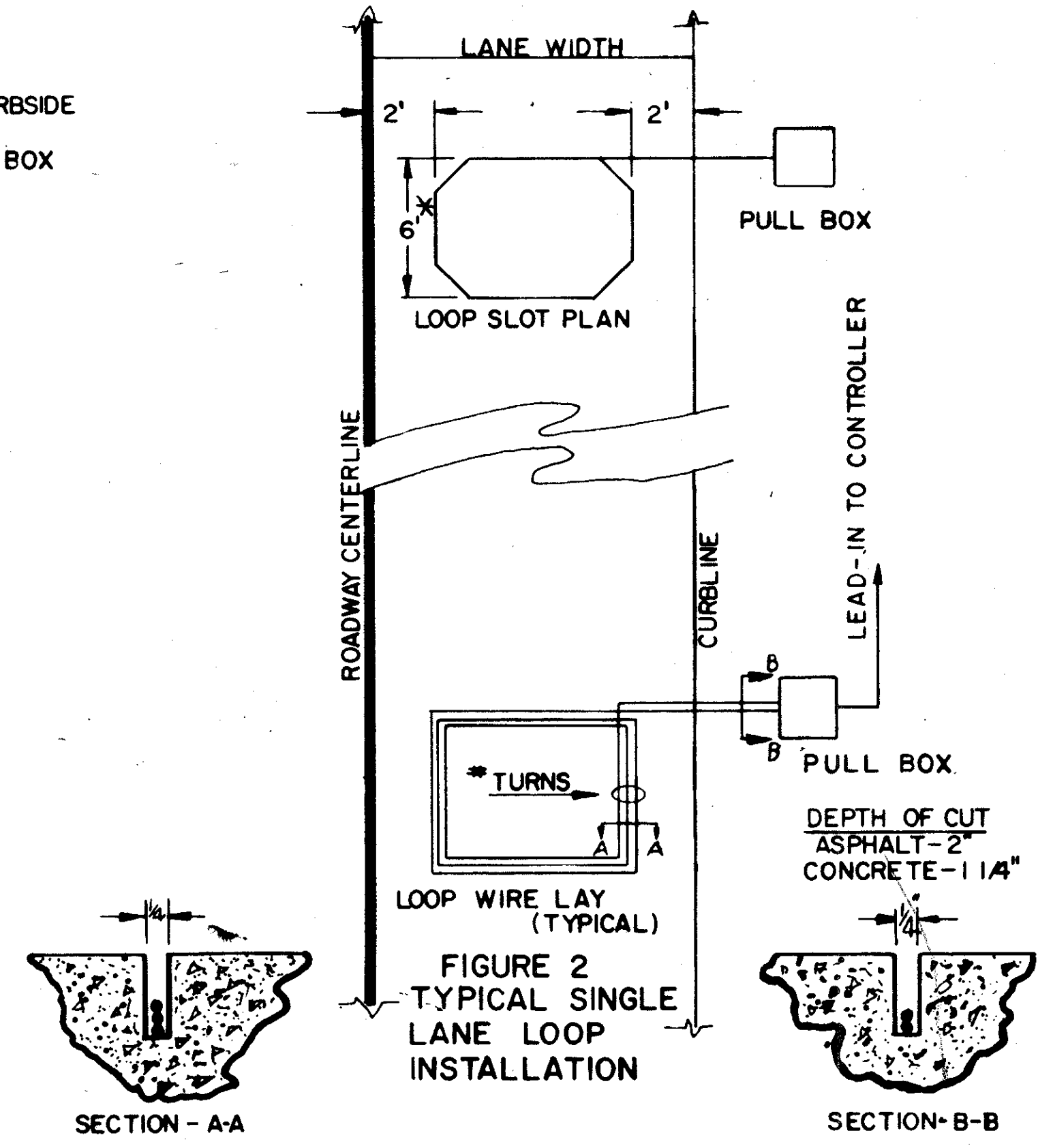


FIGURE 2  
TYPICAL SINGLE LANE LOOP INSTALLATION

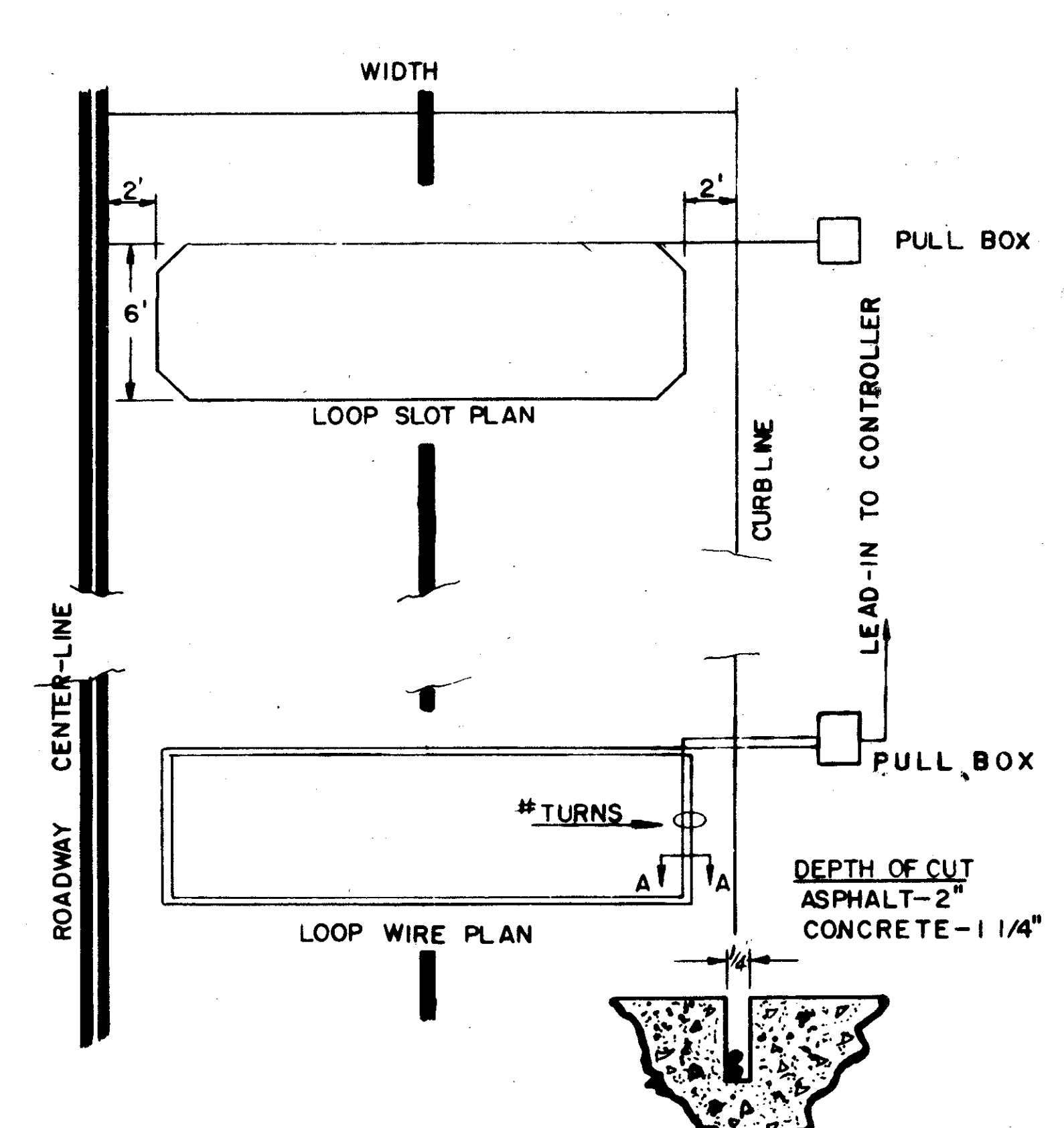


FIGURE 3  
TYPICAL TWO LANE LOOP INSTALLATION

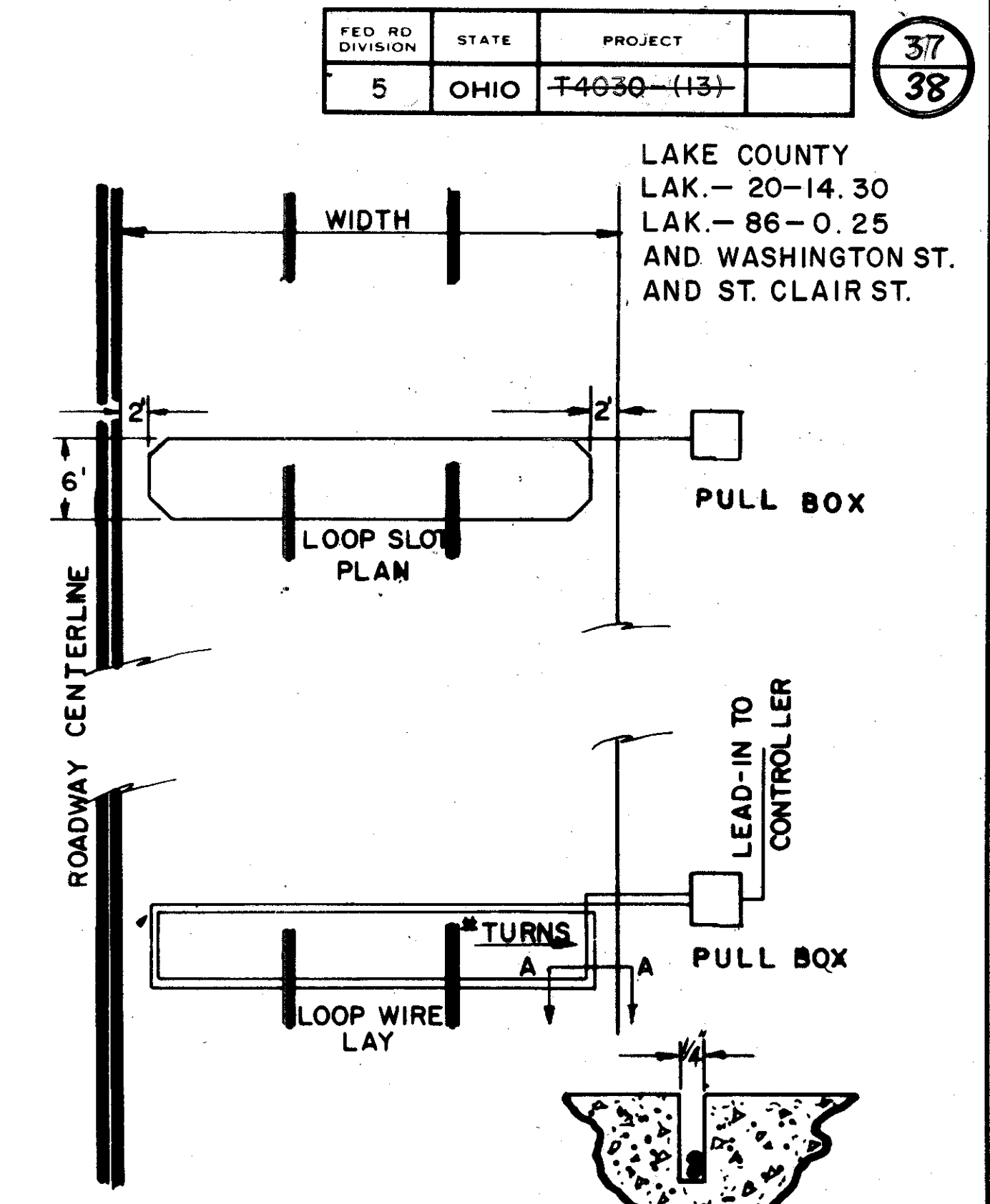


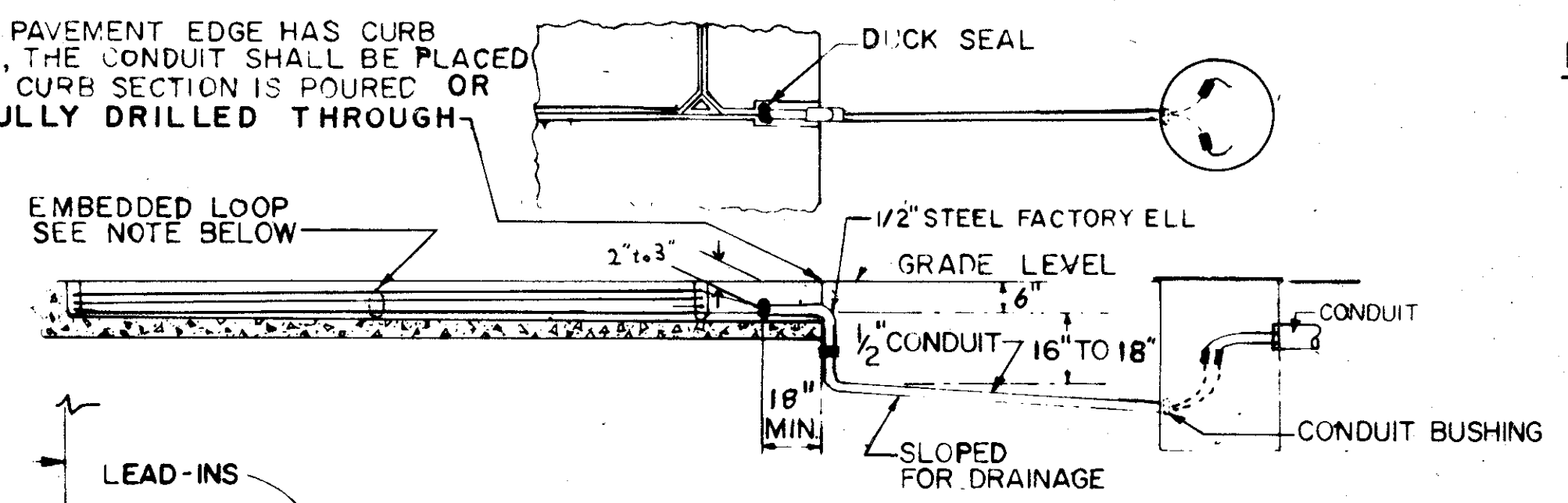
FIGURE 4  
TYPICAL THREE LANE LOOP INSTALLATION

**TABLE-1 ROADWAY LOOP CONSTRUCTION**

LOOP PERIMETER	NO. OF TURNS
UP TO 40 FEET	3
40 TO 160 FEET	2
160 AND UP	1

MAINTAIN 6' MINIMUM DIMENSION IN DIRECTION OF TRAVEL.

WHERE PAVEMENT EDGE HAS CURB SECTION, THE CONDUIT SHALL BE PLACED BEFORE CURB SECTION IS POURED OR CAREFULLY DRILLED THROUGH CURB



NOTE: IT IS EXTREMELY IMPORTANT THAT THE SAWED SLOT BE THOROUGHLY CLEANED AND COMPLETELY DRY BEFORE APPLYING SLOT SEALER

SPlicing TO LEAD IN CABLE BY SOLDERING AND APPLYING WATERPROOF SPlicing KIT

FIGURE 8  
INTERFACE BETWEEN EMBEDDED LOOP AND ROAD SIDE PULL BOX

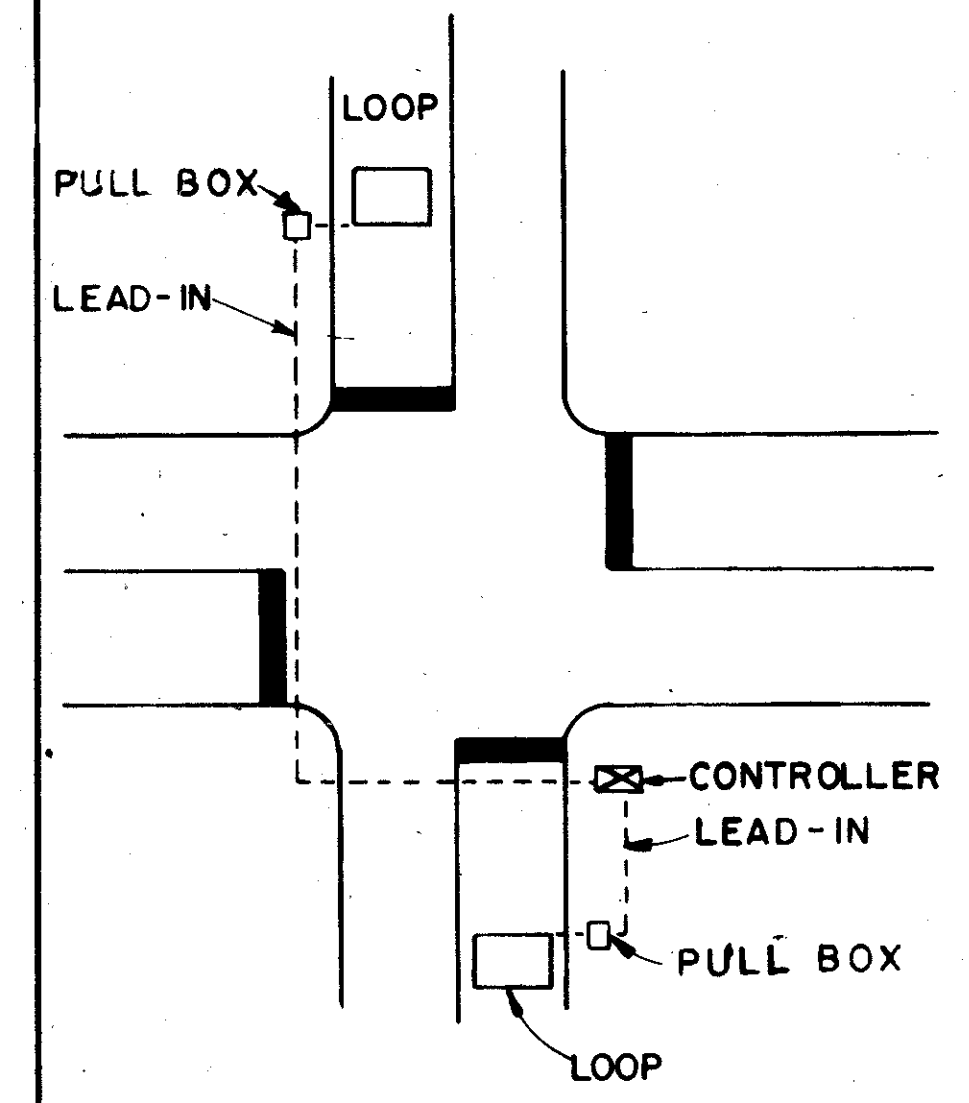


FIGURE 5  
TYPICAL LEAD-IN DETAIL

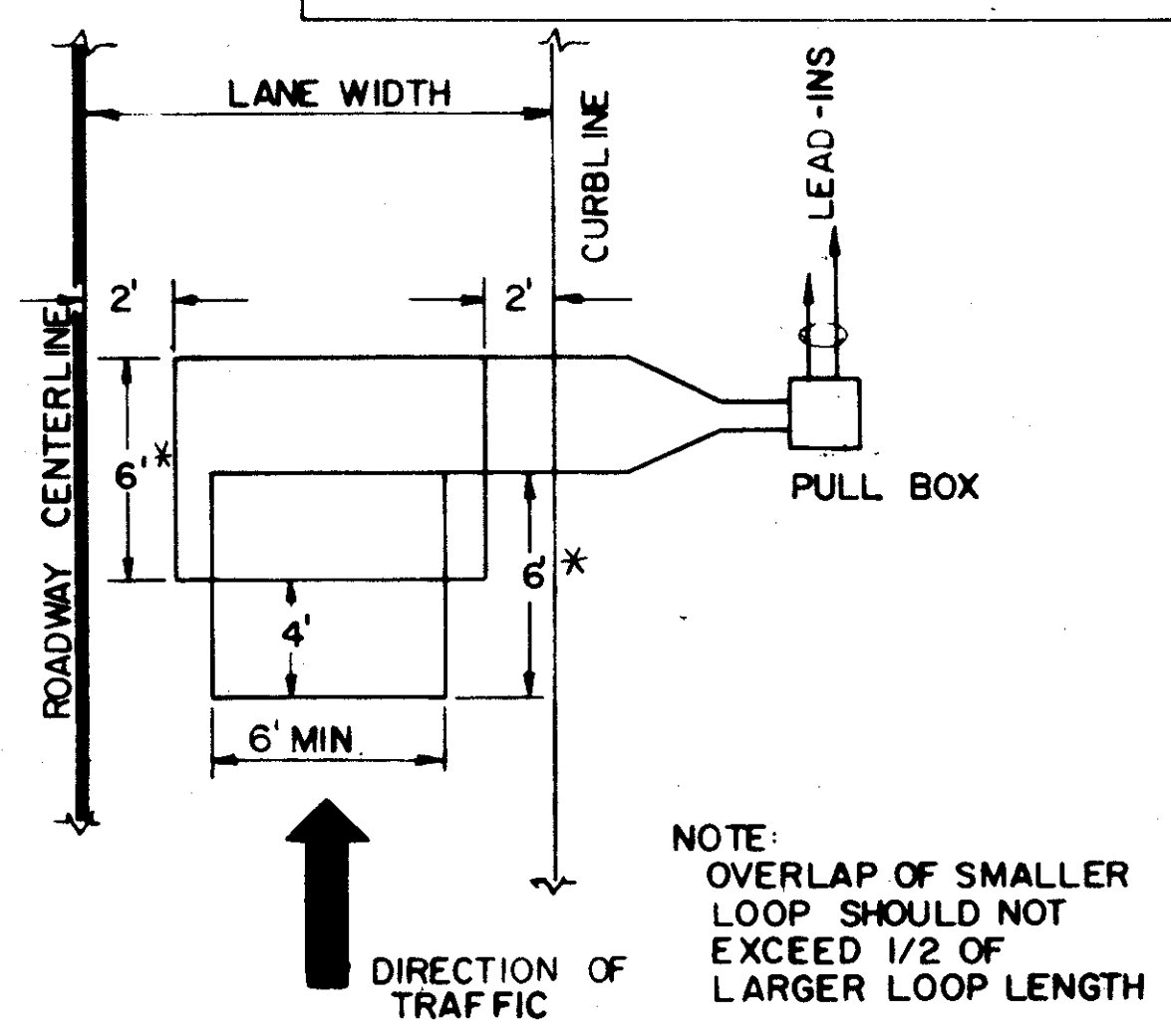


FIGURE 6  
TYPICAL DIRECTIONAL DETECTION LOOP INSTALLATION (OVERLAPPED)

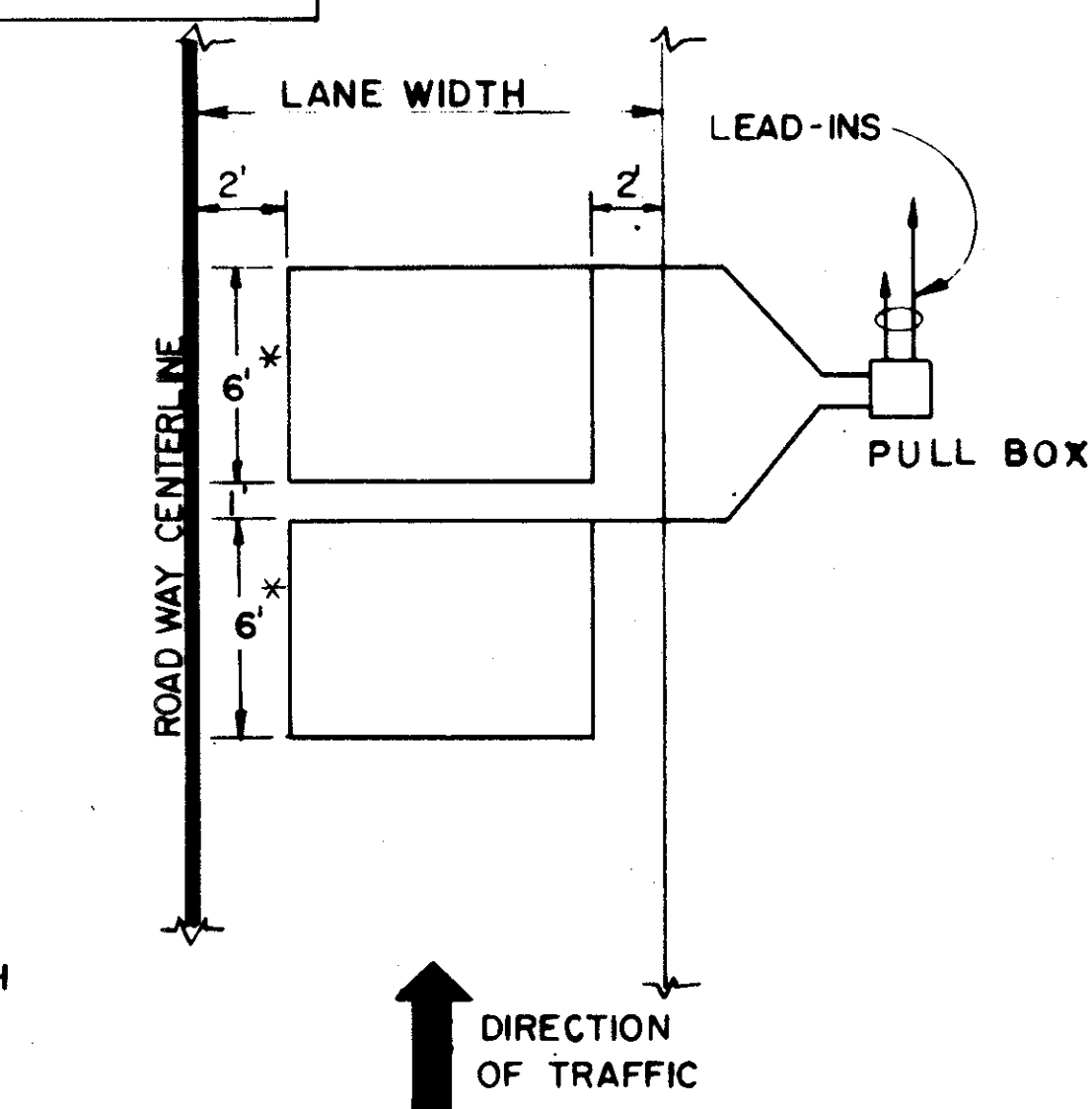


FIGURE 7  
TYPICAL DIRECTIONAL DETECTION LOOP INSTALLATION (ADJACENT)

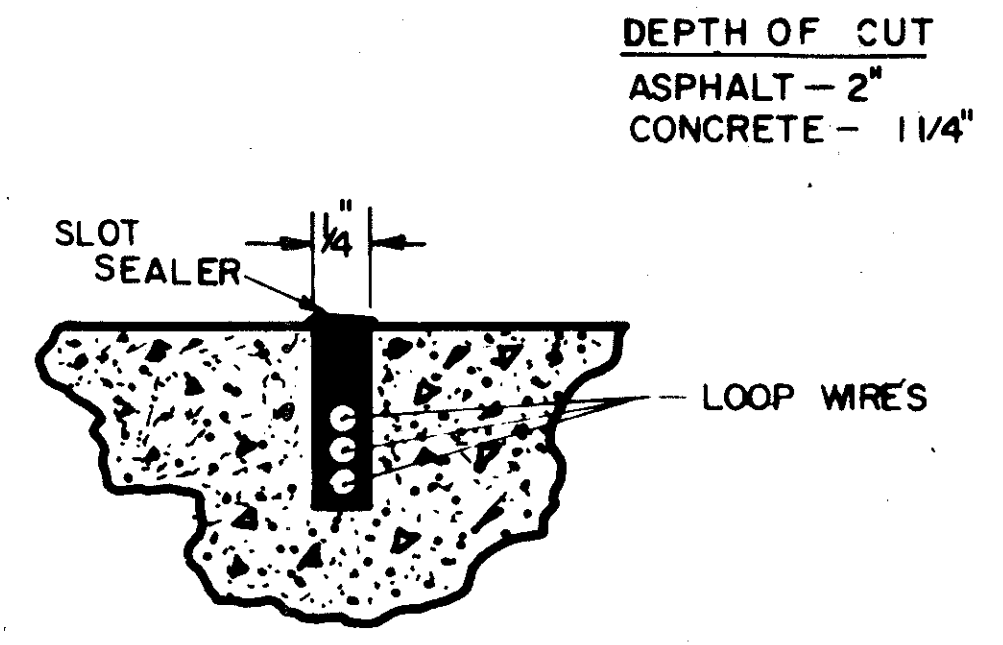


FIGURE 9  
TYPICAL SLOT SEALING DETAIL

**ROADWAY LOOP INSTALLATION**

THE ROADWAY WIRE LOOP IS POSITIONED IN THE PAVEMENT IN A SAWED SLOT THAT OUTLINES THE REQUIRED DETECTION AREA. THE SLOT SHALL BE 1/4" WIDE AND FROM 1/4" OR 2" DEEP. RIGHT ANGLE TURNS SHALL BE CHAMFERED TO PREVENT SHARP BENDS OF WIRE (SEE FIG. 1). THE SLOT MUST BE BRUSHED AND BLOWN CLEAN OF ALL LOOSE MATERIAL. THE LOOP WIRE MUST BE CAREFULLY PUSHED INTO THE SLOT WITH A BLUNT STICK TO AVOID DAMAGING ITS INSULATION. RESISTANCE OF THE WIRE LOOP TO GROUND SHOULD BE CHECKED AFTER THE WIRE IS PLACED IN THE SLOT, BOTH BEFORE AND AFTER THE SLOT IS SEALED. THIS IS ESPECIALLY IMPORTANT IF THE ROADWAY WIRE LOOP IS SPliced TO LEAD-IN CABLE AT CURBSIDE JUNCTION BOX. A RESISTANCE OF LESS THAN 10 MEGOHMS INDICATES A FAULTY SPlice OR WIRE INSTALLATION WHICH MUST BE CORRECTED BEFORE THE ROADWAY LOOP IS SEALED IN PLACE. INSTALLATIONS IN NEW ASPHALT PAVEMENT SHALL BE MADE IN THE SUBBASE PRIOR TO PLACING THE TOP COURSE.

**SEALING**

A FLEXIBLE EMBEDDING SEALANT NO. 491-HP MANUFACTURED BY EUCLID CHEMICAL CO. OF CLEVELAND, OHIO OR E-70Z MANUFACTURED BY THE BONDO CORP. OF NORTHFORD, CONNECTICUT OR EQUIVALENT. SHALL BE MIXED ACCORDING TO DIRECTIONS, POURED INTO THE SAW SLOTS AND LEFT UNDISTURBED UNTIL CURED INTO A SOLID MASS.

**\*DIMENSIONS**

IN CASES WHERE THE LATERAL DIMENSION WOULD BE LESS THAN EIGHT (8) FEET, THE LONGITUDINAL DIMENSION SHALL BE INCREASED TO OBTAIN A MINIMUM AREA OF 48 S.F.

BUREAU OF TRAFFIC  
OHIO DEPARTMENT OF HIGHWAYS

**EMBEDDED VEHICLE DETECTOR LOOP DETAILS**

APPROVED \_\_\_\_\_  
ENGINEER OF TRAFFIC

Rev 11-5-67  
Rev 6-1-71  
Rev 2-3-72