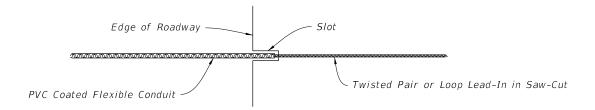
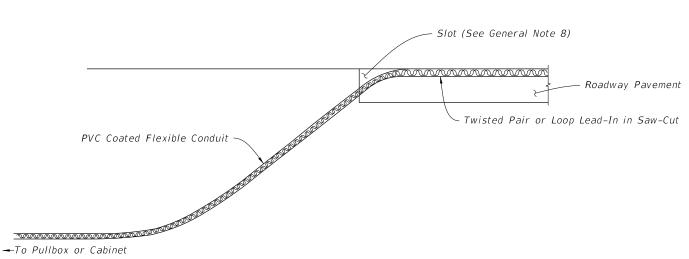
GENERAL NOTES:

- 1. If the loop lead-in is 75' or less from the edge of the loop detector to controller cabinet, continue the twisted pair to the cabinet. If the loop lead-in is greater than 75' continue the twisted pair an Intermediate Pullbox, splice to shielded lead-in wire and continue to the controller cabinet.
- 2. Provide sufficient saw-cut width to allow unforced placement of loop wires or lead-in cables into the saw-cut. Except across expansion joints, saw-cut to a standard depth of 3", but no more than 4" below the top of the final surface.
- 3. On resurfacing or new roadway construction projects, install the loop wires and lead-in cables in the asphalt structural course prior to the placement of the asphalt friction course. Place the loop wires and lead-in cables in a saw cut in the structural course.
- 4. Use nonmetallic hold down material to secure loop wires and lead-ins to the bottom of saw-cuts. Place the hold down material approximately 12" intervals around loops and 24" intervals on lead-ins.
- 5. The minimum distance between the twisted pairs of loop lead-in wire is 6" from the loop to 12" from the pavement edge or curb.
- 6. Splice Connections in pull boxes with UL listed, watertight, insulated enclosures. Place one enclosure over the end of each conductor and place a third enclosure over the exposed end of the shielded cable. As an alternate, a larger diameter enclosure that will accommodate both the splices of the conductors and the exposed end of the shielded cable may be used.
- 7. Do not disturb more than a 6" x 6" area of asphalt. Restore asphalt as directed by the Engineer.
- 8. Alternative installations may be approved by the State Traffic Operations Engineer.



PLAN



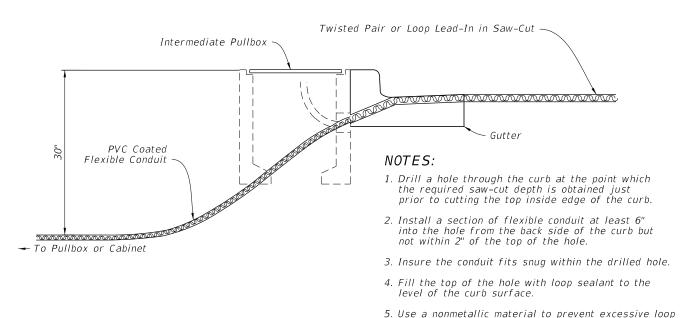
NOTES:

- 1. Cut a slot in the edge of the roadway of sufficient size and depth to snugly place the end of the flexible conduit.
- 2. Install the conduit at least 6" into the roadway pavement and approximately 2" below the top of the roadway surface.
- 3. The departure angle of the conduit from the roadway is between 30° to 45°.

ELEVATION

:INSTALLATION WITHOUT CURB & GUTTER =

→ To Pullbox or Cabinet



ALTERNATIVE 1

Twisted Pair or Loop Lead-In in Saw-Cut Intermediate Pullbox Slot (See General Note 8) ∽ Gutter NOTES: PVC Coated Flexible Conduit Rigid Conduit angle to intercept the trench or pull box hole. Connector

- 1. Drill a hole $\frac{1}{2}$ " to 1" larger in diameter than the rigid conduit to be used through the roadway asphalt (or concrete) surface and base at an appropriate
- 2. Install a molded bushing (nonmetallic) on the roadway
- 3. Place the top of the rigid conduit approximately 2" below the roadway surface.
- 4. Fill the hole with loop sealant to the level of the roadway surface.
- 5. Use a nonmetallic material to prevent excessive loop sealant from entering the rigid conduit.

ALTERNATIVE 2

= INSTALLATION WITH CURB & GUTTER =

TWISTED PAIR AND LOOP LEAD-IN INSTALLATION

REVISION 11/01/18

DESCRIPTION:

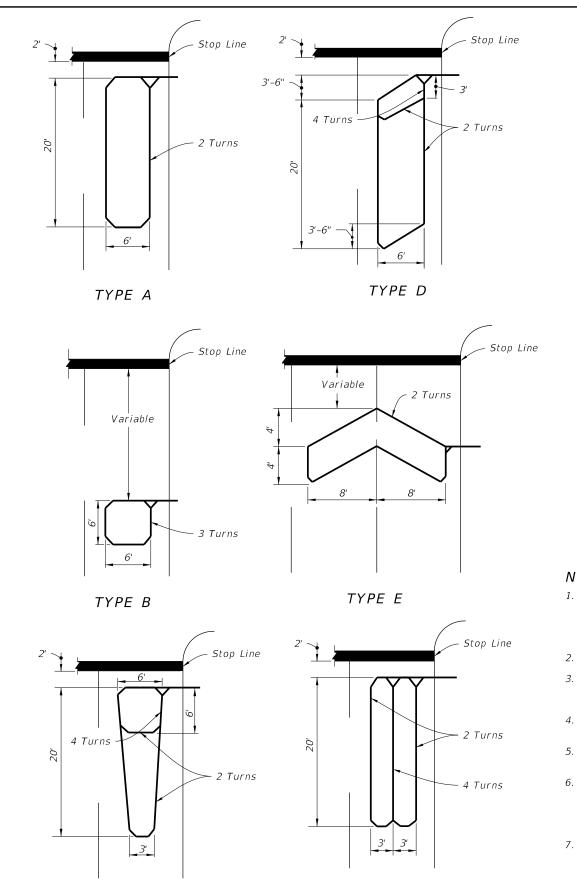
FDOT

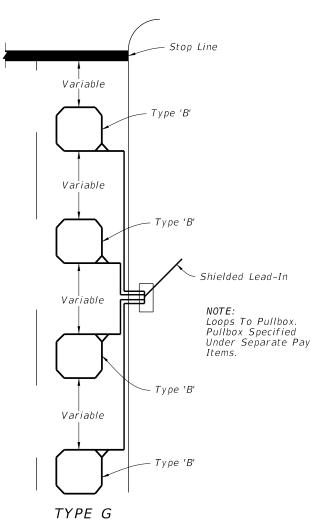
sealant from entering the flexible conduit.

FY 2023-24 STANDARD PLANS

1 of 2

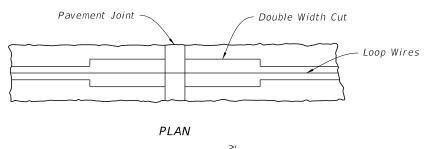
SHEET

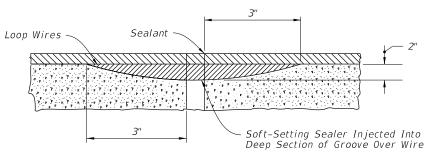




NOTES:

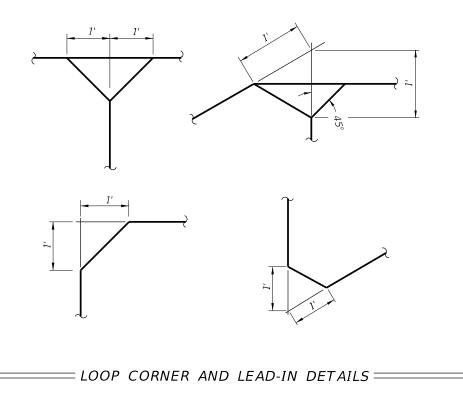
- 1. The number of "Turns" indicated at the specified point on the loop refers to the number of passes of loop wires which are placed in the saw-cut forming the complete
- 2. Loop types or details not drawn to scale.
- 3. Loop Types are centered in a single lane except Type E which is centered on two lanes.
- 4. The number of individual loops in the Type G loop may vary up to a maximum of four (4).
- 5. Lead-in may be connected to either end of loop.
- 6. When shown in the Plans, the leading edge of loop Types A, C, D, & F may extend past the stop line a maximum of 10' and the length of these loops may be extended to a maximum of 60'.
- 7. Do not install loop lead-in wires in the same pull box with signal power cable.





= CONCRETE PAVEMENT EXPANSION JOINTS ===

VERTICAL SECTION



LOOP TYPES, EXPANSION JOINTS, AND DETAILS

REVISION 11/01/18 TYPEC

DESCRIPTION:

FDOT

TYPE F

LOOP TYPES =

Loop conductors must follow saw-cut to bottom forming slack section at joint.

FY 2023-24 STANDARD PLANS