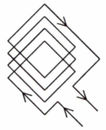
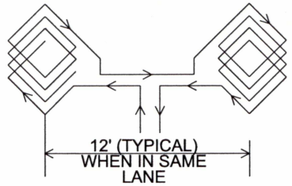
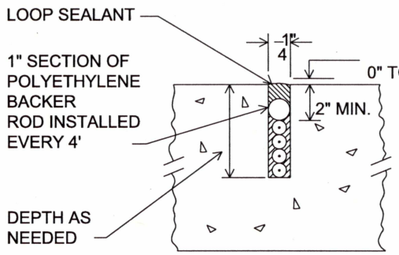


SINGLE LOOP



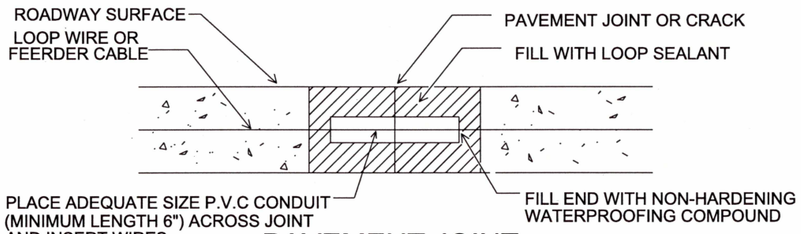
TWO LOOPS IN SERIES

ARROWS INDICATE DIRECTION
OF LOOP WINDING.



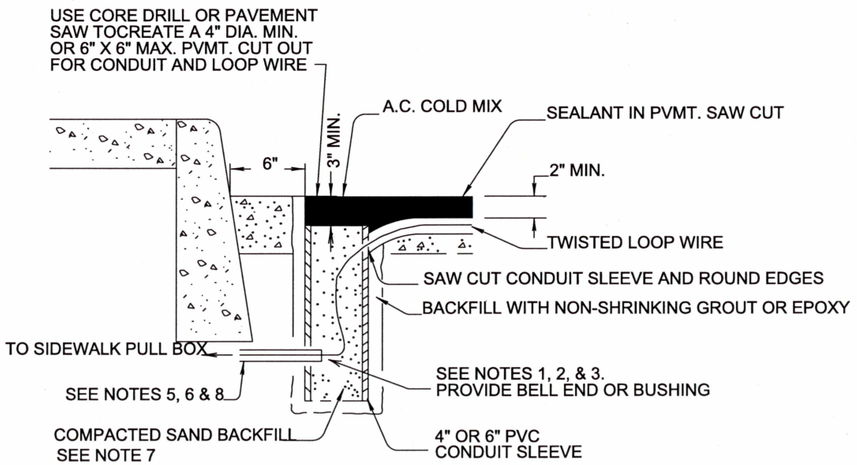
LOOP SECTION

NOTE:
LOOPS SHALL BE 4'X4' DIAMOND OR 6' ROUND WITH 4 TURNS OF NO. 14 WIRE, PER 00990.43 (B) 2 CENTERED IN THE LANE. THE FEEDER WIRES SHALL RUN BACK TO A PULL BOX, POLE BASE, OR CONTROLLER BASE AS SHOWN ON THE PLANS.HOME RUNS SHALL HAVE SIX TWIST PER FOOT.



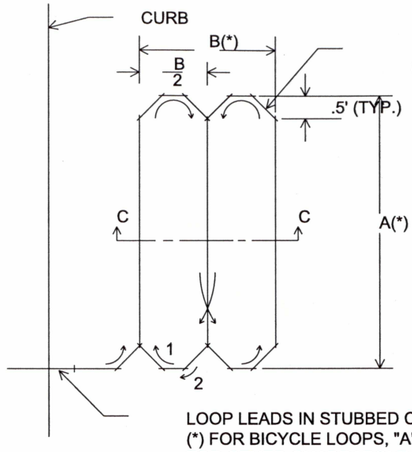
PAVEMENT JOINT CROSSING DETAIL

(FOR CONCRETE OR A.C. PAVEMENT)



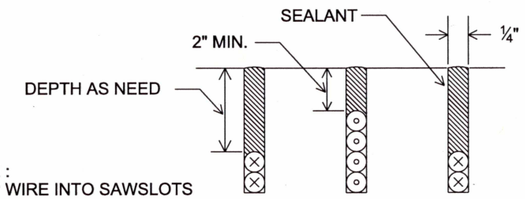
PVC SLEEVE LOOP POCKET DETAIL
STANDARD DETECTOR LOOP AND LOOP POCKET INSTALLATION

NOT TO SCALE



CUT DIAGONALS TO PREVENT SHARP BENDS.

LOOP LEADS IN STUBBED CONDUIT.
(*) FOR BICYCLE LOOPS, "A" = 6' & "B" = 3'
FOR OTHER QUADRAPOLE LOOPS
OBTAIN DISTANCES "A" AND "B"
FROM SIGNAL PLAN



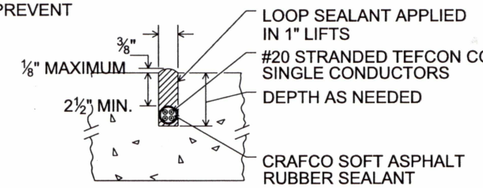
SECTION C-C

NOTE :
TAMP WIRE INTO SAWSLOTS
WITH WOOD OR PLASTIC TOOL.
TWO (2) TURNS OF WIRE.

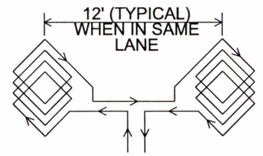
QUADRAPOLE & BICYCLE DETECTOR LOOP INSTALLATION

LOOP POCKET INSTALLATION NOTES

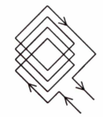
1. BELL END OR BUSHING SHALL BE PROVIDED AT ENDS OF CONDUIT.
2. TAG WIRE 3" ON EACH SIDE OF BELL ENDS OR BUSHINGS.
3. INSTALL DUCT SEAL COMPOUND TO EACH END OF CONDUIT BEFORE INSTALLING SAND AND A.C.
4. ROUND ALL SHARP EDGES WHERE WIRE PASSES PVC SLEEVE.
5. INSTALL 2" MINIMUM CONDUIT, 2 1/2 " FOR MORE THAN 10 DUCTED WIRES AND 3" FOR MORE THAN 16 #14 DUCTED LOOP CONDUCTORS.
6. ROUTE CONDUIT PERPENDICULAR TO PULL BOX AND BELOW CURB.
7. BACKFILL POTHOLE W/FINE SAND TO WITHIN 3" OF ROADWAY SURFACE BACKFILL REMAINDER W/COLD MIX ASPHALT. SAW CUTS AT EDGE OF POTHOLE SHALL BE 4" DEEP. CONDUCTORS SHALL BE SEALED WITH BITUMINOUS ADHESIVE SEALANT IN SAWCUTS AND COVERED W/SAND IN THE POTHOLE PRIOR TO INSTALLING COLD MIX ASPHALT.
8. ELBOWS AND RISERS FOR CONDUIT BACK INTO THE FIRST JUNCTION BOX SHALL BE RIGID PVC CONDUIT.
9. ON MONOLITHIC CURBS, LOCATE LOOP POCKET IN PAVEMENT AT EDGE OF GUTTER. LOOP POCKET MAY BE CENTERED IN CONCRETE GUTTERS.



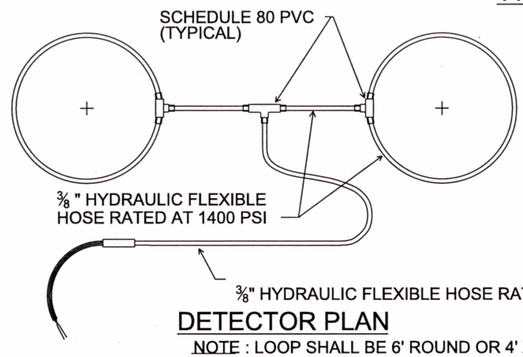
LOOP SECTION



TWO LOOP IN SERIES

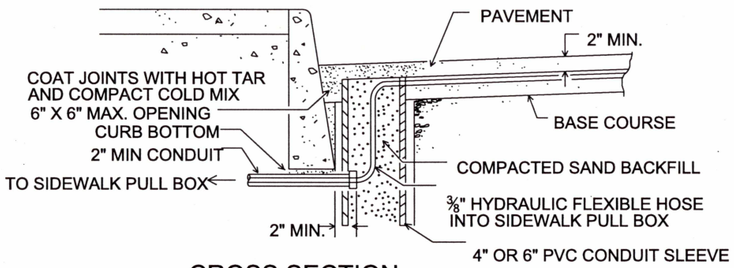


SINGLE LOOP



DETECTOR PLAN

NOTE : LOOP SHALL BE 6' ROUND OR 4' X 4' DIAMOND



CROSS SECTION

NOTE : INSTALL PVC SLEEVE LOOP POCKET PER DETAIL THIS SHEET.

PREFORMED DETECTOR LOOP

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.

BUREAU OF TRANSPORTATION
CITY OF PORTLAND, OREGON
Steve Townsend
Chief Engineer

Standard Drawing Title

DETECTOR LOOP & LOOP POCKET DETAILS

Note:
All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.

Effective Date: 03-21-12

Calc. Book No.:

Baseline Report Date:

Standard Drawing No.

P-634

Plot Date: 4/13/2012 4:02:58 PM