RAE®

RENO A & E

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PLC Preformed Loop Installation Instructions

Asphalt Overlay:
1. Place the PLC Preformed Loop in the proper position and orientation on the asphalt base lift.
2. Route the lead-in cable to the desired termination point.
3. Use the corner brackets and/or the fiberglass backed mastic tape cut into 2" x 4" or 3" x 4" strips to hold the loop and lead-in cable in place.
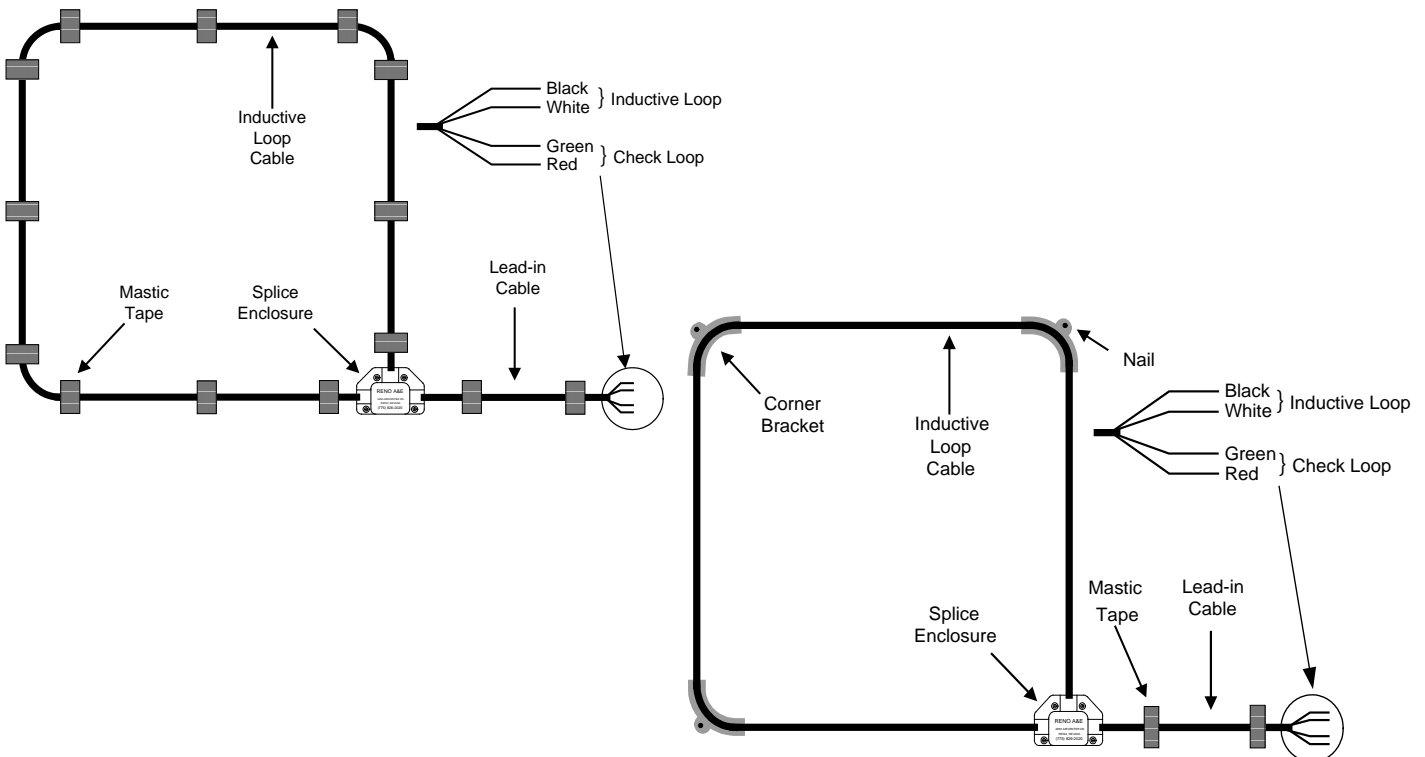
   Warning:
   Do not allow direct contact between heavy equipment (including the paver) and the PLC Preformed Loop. Cover the PLC cables and splice box with a minimum of 1" of asphalt before heavy equipment travels over the PLC Preformed Loop.

4. Apply the top lift.

Note:
   When applying the top lift, make certain that the loop cable does not get pulled into the augers on the paving machine.

Poured Concrete:

1. Place the PLC Preformed Loop in the proper position and orientation on top of the concrete reinforcing steel.
2. Route the lead-in cable to the desired termination point.
3. Cut an appropriate number of ½" poly insert tees as shown in Figure 1. Cut an equal number of lengths of ⅜" rebar.
4. Use the tees, rebar and nylon cable ties to hold the loop cable in place. See Figure 2. The lead-in cable can be tied directly to the concrete reinforcing steel.
5. Pour the concrete making certain not to disturb the loop cable.

Notes:

1. The rebar should be cut long enough to allow it to be driven firmly into the ground to hold the tee securely at the correct height above the concrete reinforcing steel.
2. Spacing of the Tee / rebar supports should be such that no more than 2 feet of cable is unsupported.
3. If the thickness of the concrete slab and/or the depth of the reinforcing steel below the top of the slab is such that the minimum dimensions shown in Figure 2 cannot be achieved, contact Technical Support at Reno A & E for guidance.
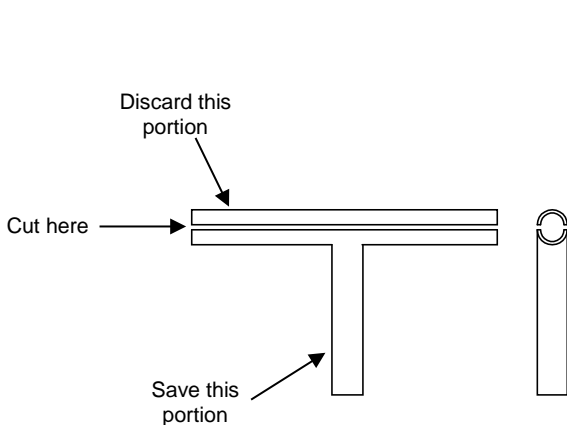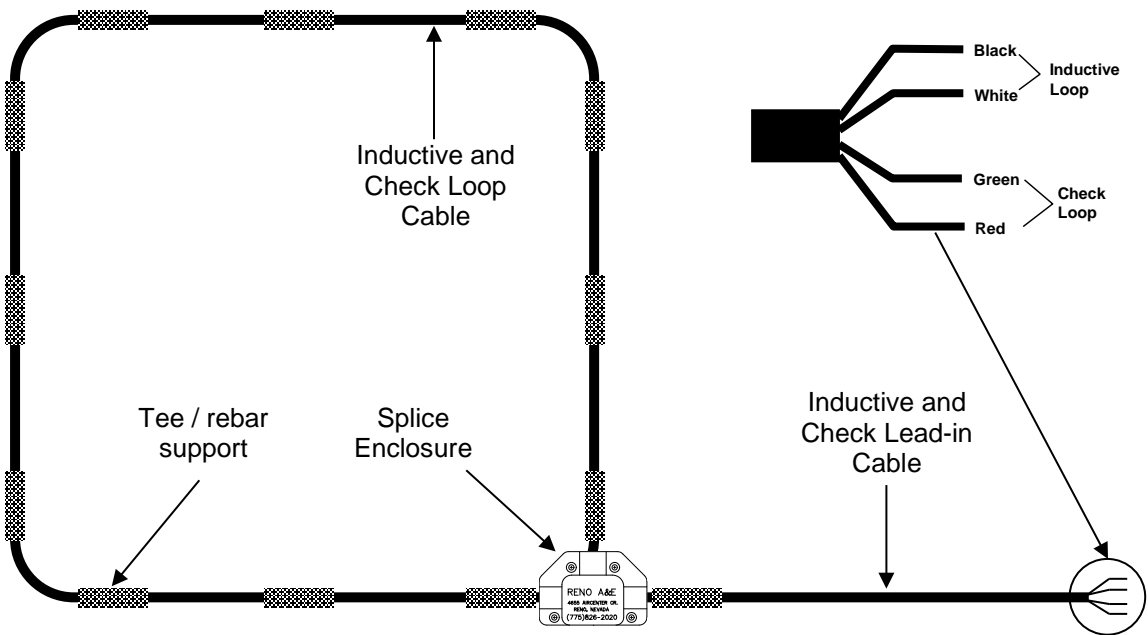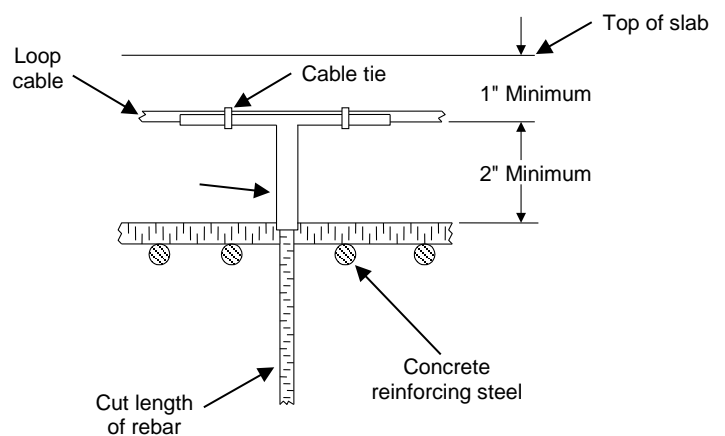
Inductive and Check Loop Cable

Black — Inductive Loop
White

Green — Check Loop
Red

Tee / rebar support

Splice Enclosure

Inductive and Check Lead-in Cable

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Discard this portion

Cut here

Save this portion

Figure 1

Top of slab

Loop cable

Cable tie

1" Minimum

2" Minimum

Cut length of rebar

Concrete reinforcing steel

Figure 2