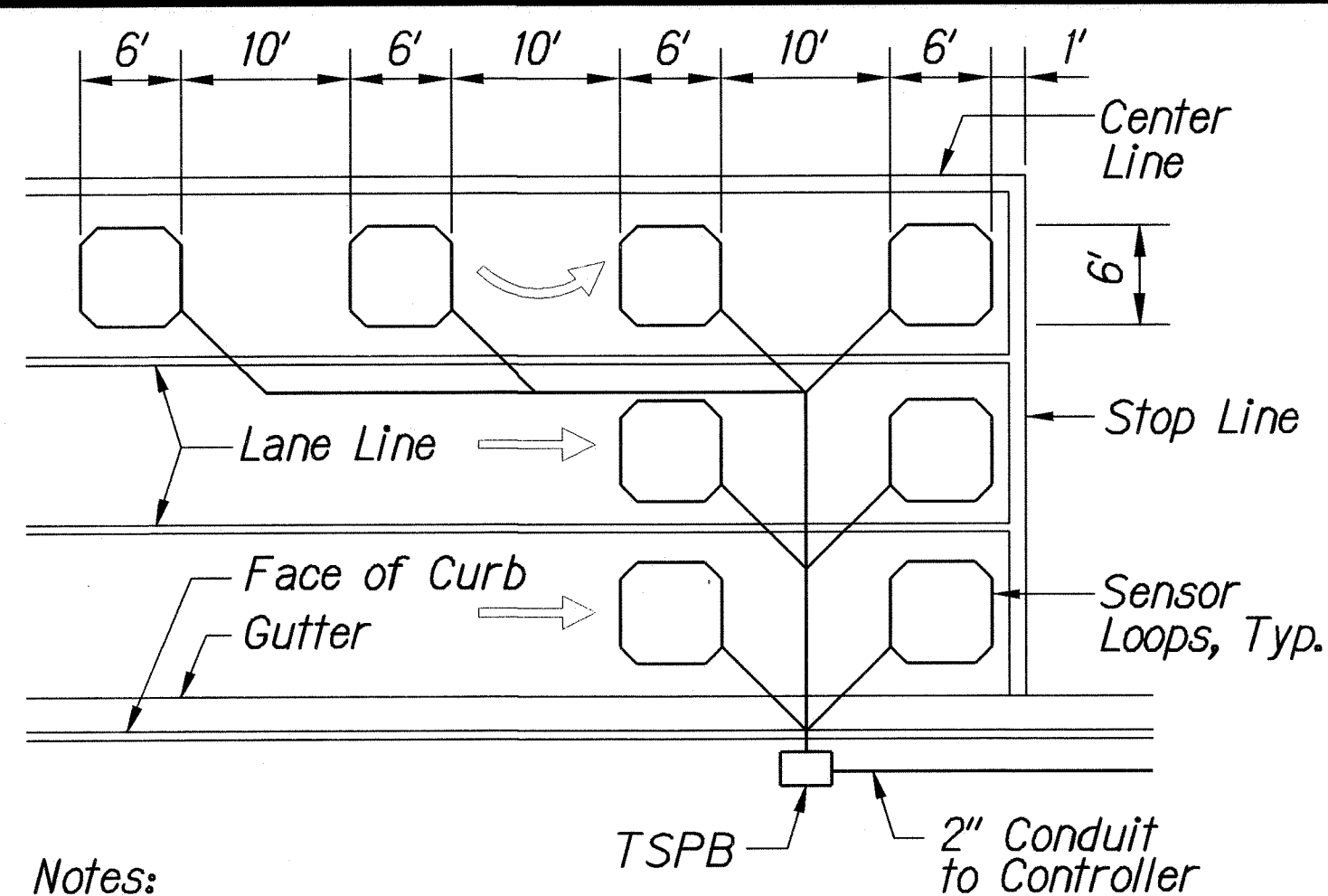


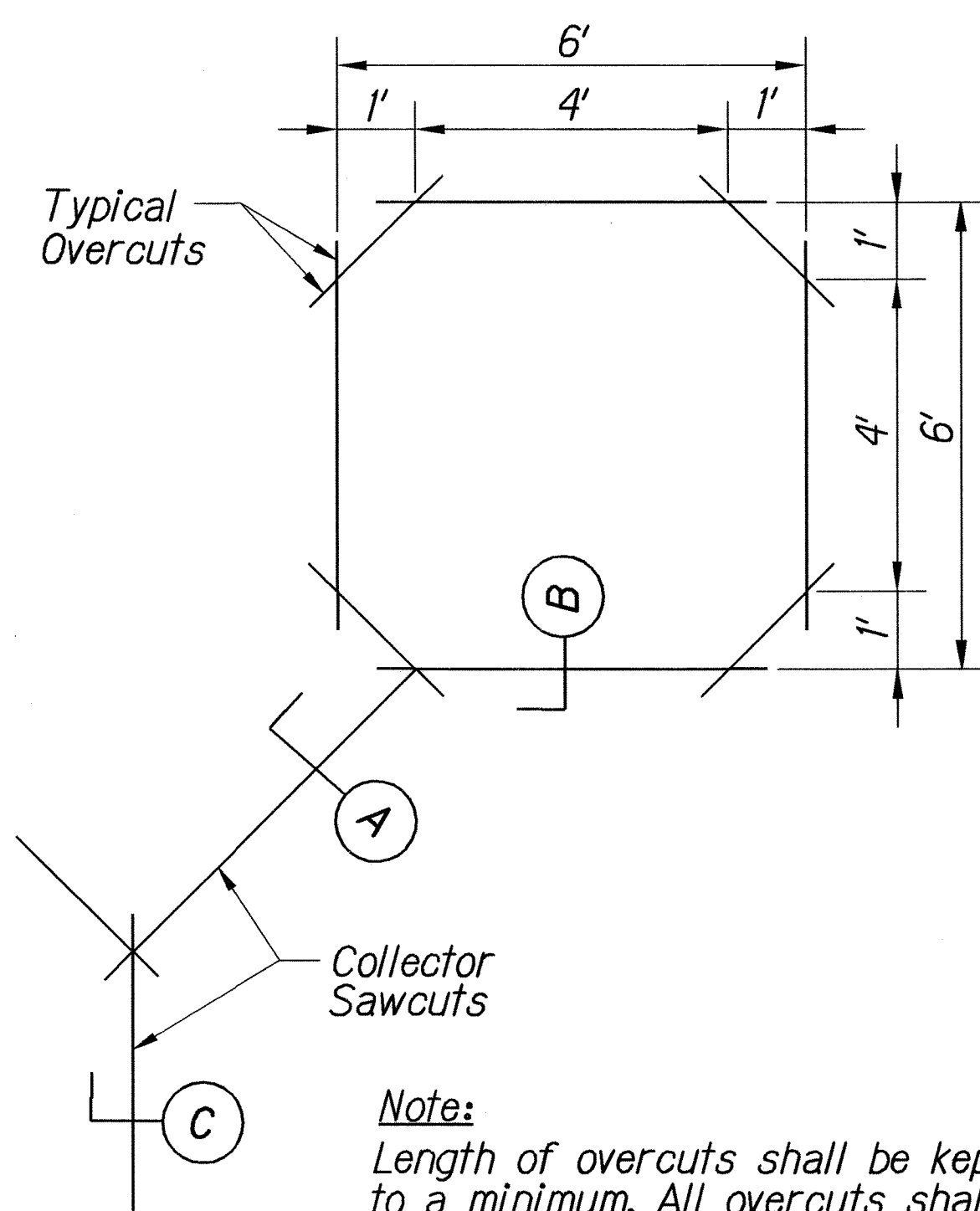
| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 50C-03-07M | 2009        | 22        | 25           |



**Notes:**

1. Center sensor loops in lanes.
2. Collector cables shall be twisted 2 turns per foot.
3. Number of loops and locations vary. See project plans.
4. Number and locations of collector sawcuts may be varied in the field to suit.

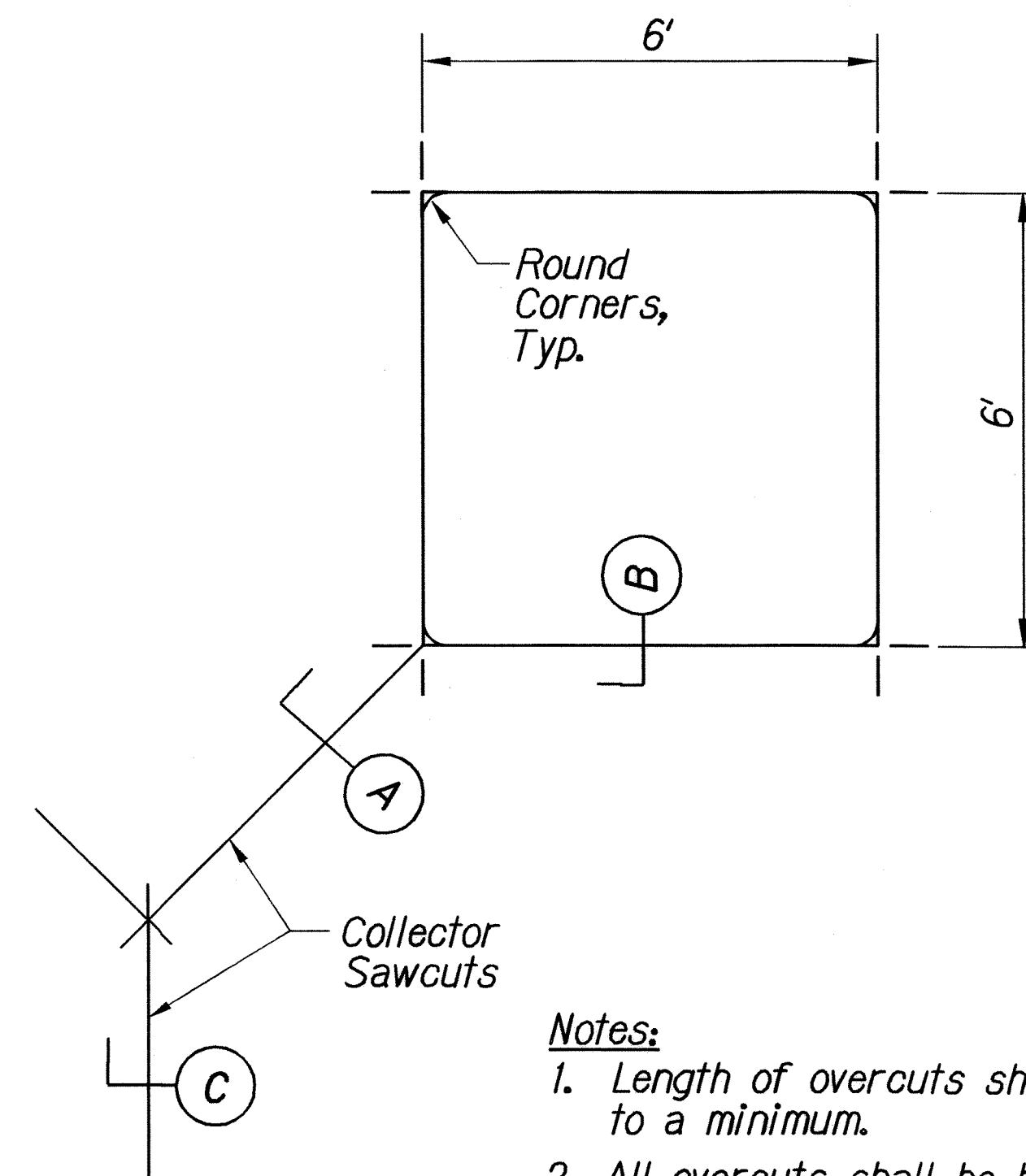
**TYPICAL SENSOR LOOP LAYOUT**  
Not to Scale



**Note:**

Length of overcuts shall be kept to a minimum. All overcuts shall be backfilled with hot tar.

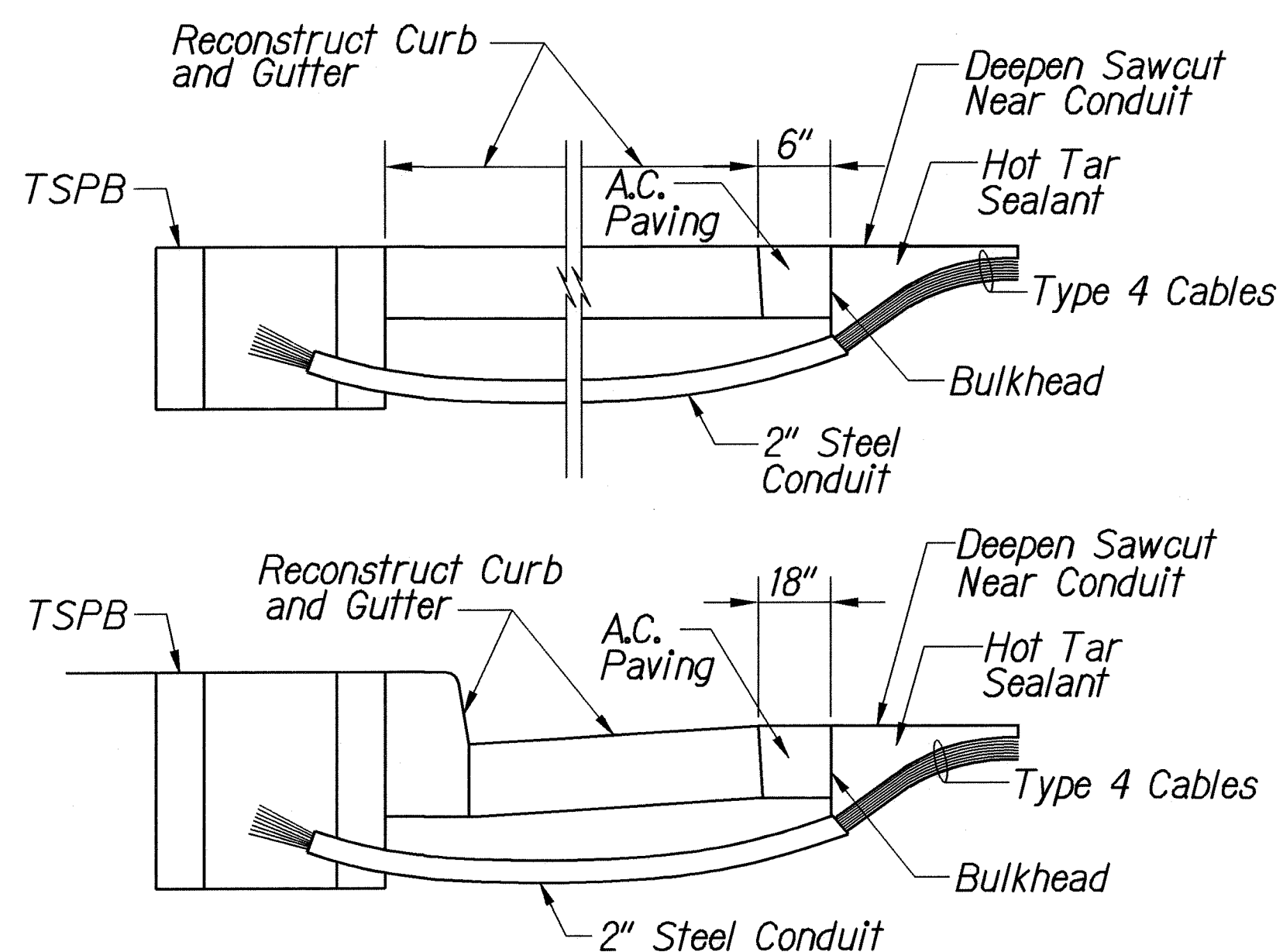
**TYPICAL SENSOR LOOP SAWCUT DETAIL**  
Not to Scale



**Notes:**

1. Length of overcuts shall be kept to a minimum.
2. All overcuts shall be backfilled with hot tar.

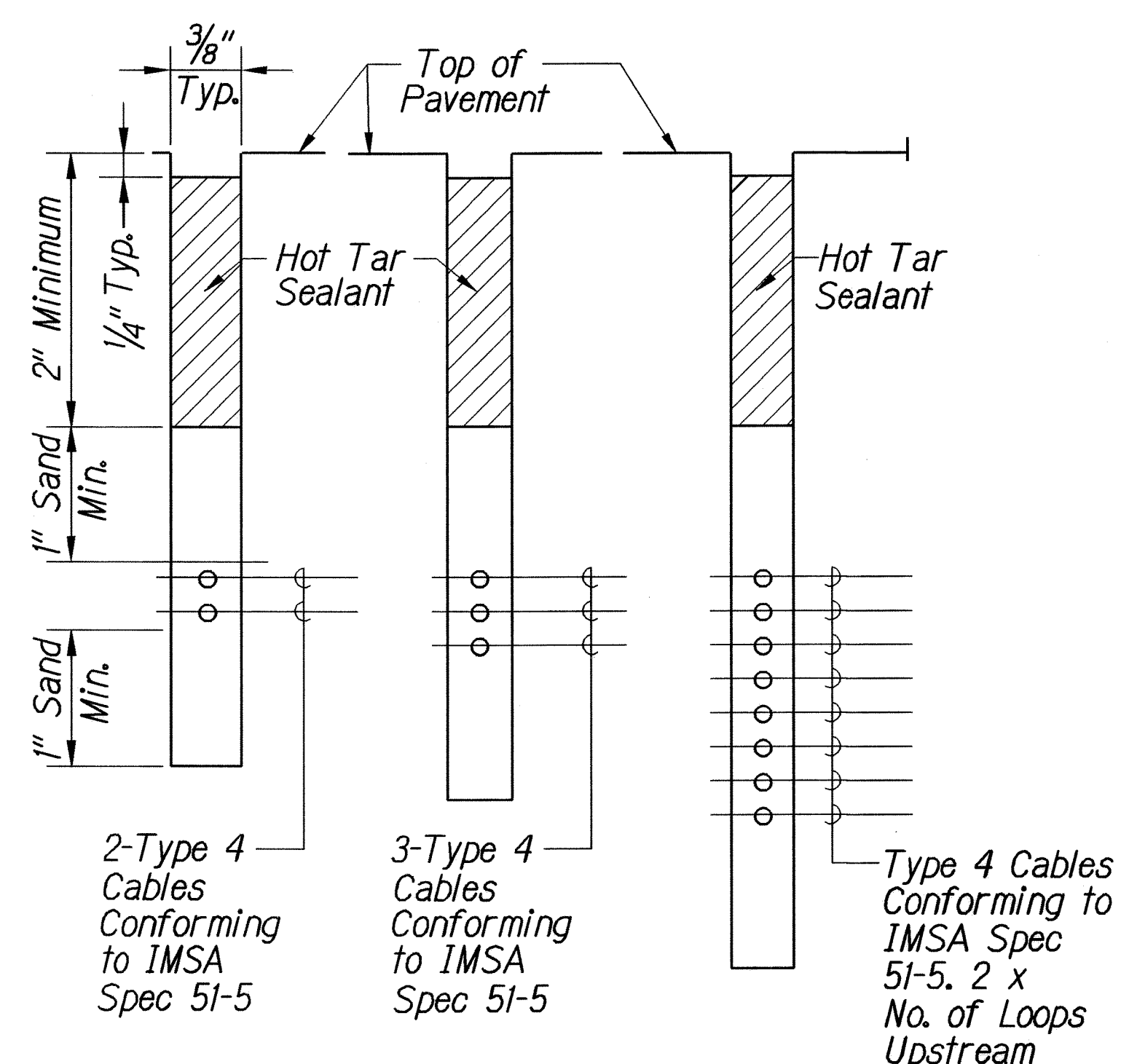
**ALTERNATE SENSOR LOOP SAWCUT DETAIL**  
Not to Scale



**Notes on Construction at End of Sawcut:**

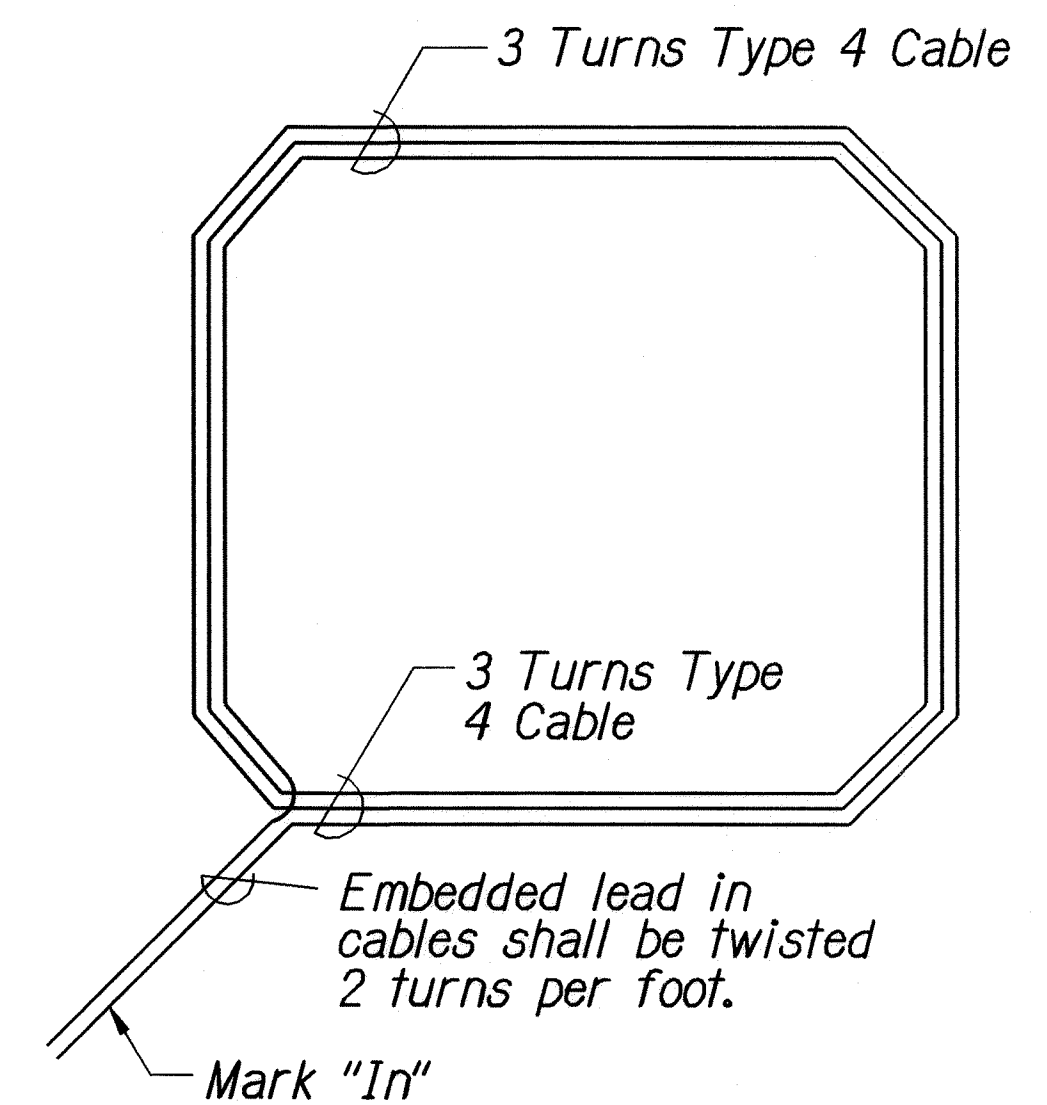
1. Seal roadway end of conduit after installation of conductors.
2. Install bulkhead across conduit trench.
3. Place hot tar in sawcut.
4. Backfill over conduit with new a.c.
5. Reconstruct curb and gutter as required.

**DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY**  
Not to Scale



**SECTION A SECTION B SECTION C**

**DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY**  
Not to Scale



**PLAN**

**TYPICAL SENSOR LOOP WIRING DIAGRAM**  
Not to Scale

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          | 7/02 |
| DESIGNED BY       |      |
| NOTED BY          |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| 3/10/02/10/02/07  |      |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**LOOP DETECTOR DETAILS**

**KAUMUALII HIGHWAY RESURFACING**  
**Helewili Road to Hanapepe Bridge**  
**Project No. 50C-03-07M**

Scale: Not to Scale Date: November 2008

SHEET No. 79 OF 10 SHEETS