

PLAN OF PULLBOX

The plan view shows a rectangular pullbox with an overall width of 40" and an overall depth of 28". The width is divided into three sections: a 4" section on the left, a central section, and a 4" section on the right. The depth is divided into three sections: a 4" section at the top, a central section, and a 4" section at the bottom. The central section contains a square reinforcement cage with four corner bars, each labeled '3#4'. The cage is centered within the pullbox. Section lines A-A and B-B are indicated with arrows pointing to the right and bottom respectively.

30"

20"

STATE HIGHWAYS

CAST IRON COVER

TRAFFIC SIGNAL

OR

HWY LIGHT

OR

TRAFFIC SIGNAL

&

HWY LIGHT

AS APPLICABLE

PLAN OF COVER

5/8"

1/8"

3/4" (TYP.)

CAST IRON COVER

SECTION THROUGH COVER

SECTION THROUGH COVER

33  $\frac{3}{16}$ "

23  $\frac{3}{16}$ "

CAST IRON FRAME

SECTION THROUGH FRAME

NOT TO SCALE

A diagram showing a grid of vertical bars. The grid is 12 inches wide and 18 inches high. The bars are arranged in a regular pattern, with a dimension line indicating the width as 12" and another dimension line indicating the height as 18" APART. A circled number 2 is next to the width dimension.

PAVEMENT ARROW AS SHOWN ON PLAN

A horizontal line representing a beam is divided into four equal segments by three vertical tick marks. Each segment is labeled with '6'' above the line. Below the beam, there are four short horizontal dashes, each aligned with a vertical tick mark (including the ends of the beam).

1. LAYOUT OF PAVEMENT MARKINGS AND STRIPING SHALL BE DONE BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY INSTALLATION WORK.
2. EXISTING PAVEMENT MARKINGS NOT INCORPORATED IN THE FINAL TRAFFIC PATTERN SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. COSTS SHALL BE INCIDENTAL TO THE VARIOUS PAVEMENT MARKING ITEMS.
3. RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED WITHIN CROSSWALKS.
4. FINAL LOCATIONS OF ALL SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY INSTALLATION WORK.
5. EXISTING SIGNS NOT SHOWN ON THESE PLANS SHALL REMAIN AS POSTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. REMOVAL AND DISPOSAL OF EXISTING SIGNS AND/OR POSTS AS DESIGNATED ON THESE PLANS SHALL BE INCIDENTAL TO THE VARIOUS SIGNING ITEMS.
6. FINAL LOCATIONS OF ALL STOP LINES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
7. ALL PAVEMENT STRIPING SHALL BE AS NOTED ON THE LEGEND OR PLANS.
8. ALL PREFORMED PAVEMENT MARKING TAPES OVER EXISTING PAVEMENT SHALL BE APPLIED WITH AN APPROVED PRIMER AS RECOMMENDED BY THE TAPE MANUFACTURER AND AS APPROVED BY THE ENGINEER. THE PRIMER SHALL BE ALLOWED TO DRY TO THE TACKY STAGE PRIOR TO TAPE APPLICATION.
9. ALL STRIPING EXCEPT RAISED PAVEMENT MARKERS SHALL BE THERMOPLASTIC EXTRUSION.
10. THE CONTRACTOR SHALL FABRICATE AND ERECT AT THE BEGINNING OF THE PROJECT AND AT THE END OF THE PROJECT ADVANCE CONSTRUCTION WARNING SIGNS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER FOR THE DURATION OF THE HIGHWAY PROJECT AND SHALL BE MAINTAINED BY THE CONTRACTOR. THESE SIGNS SHALL BE PLACED IN ADDITION TO THE REQUIRED TRAFFIC CONTROL SIGNS CALLED FOR IN SECTION 645—WORK ZONE TRAFFIC CONTROL. THE ADVANCE CONSTRUCTION WARNING SIGNS SHALL BE NEW AND BECOME THE PROPERTY OF THE STATE. THE CONTRACTOR SHALL REMOVE, CLEAN, AND DELIVER THE SIGNS AND POSTS TO THE MAUI DISTRICT OFFICE YARD OR AS DIRECTED BY THE ENGINEER AT THE END OF THE PROJECT. COST OF ADVANCE CONSTRUCTION SIGNS SHALL BE PAID UNDER ITEM 621.7100.

NOT TO SCALE

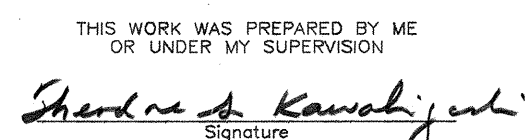
1. PROVIDE ARMORCAST POLYMER CONCRETE COVER.
2. INSTALL ON 6" BED OF #3 CRUSHED ROCK.
3. PROVIDE SUFFICIENT AMOUNT OF 5/8"Øx8" COPPERWELD GROUND RODS AS DIRECTED BY THE TRAFFIC SIGNAL INSPECTOR/ENGINEER. COST SHALL BE INCIDENTAL TO THE VARIOUS TRAFFIC SIGNAL ITEMS.

NOT TO SCALE



1. EMERGENCY VEHICLE PREEMPTION DETECTOR SHALL BE MODEL M711 PREEMPTION DETECTOR, OR APPROVED EQUAL, UNLESS NOTED OTHERWISE OTHERWISE IN THE SPECIAL PROVISIONS.
2. SUPPORT SADDLE ASSEMBLY SHALL BE "ASTRO MINI-BRAC, AB-0132-29", OR APPROVED EQUAL, UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.

NOT TO SCALE



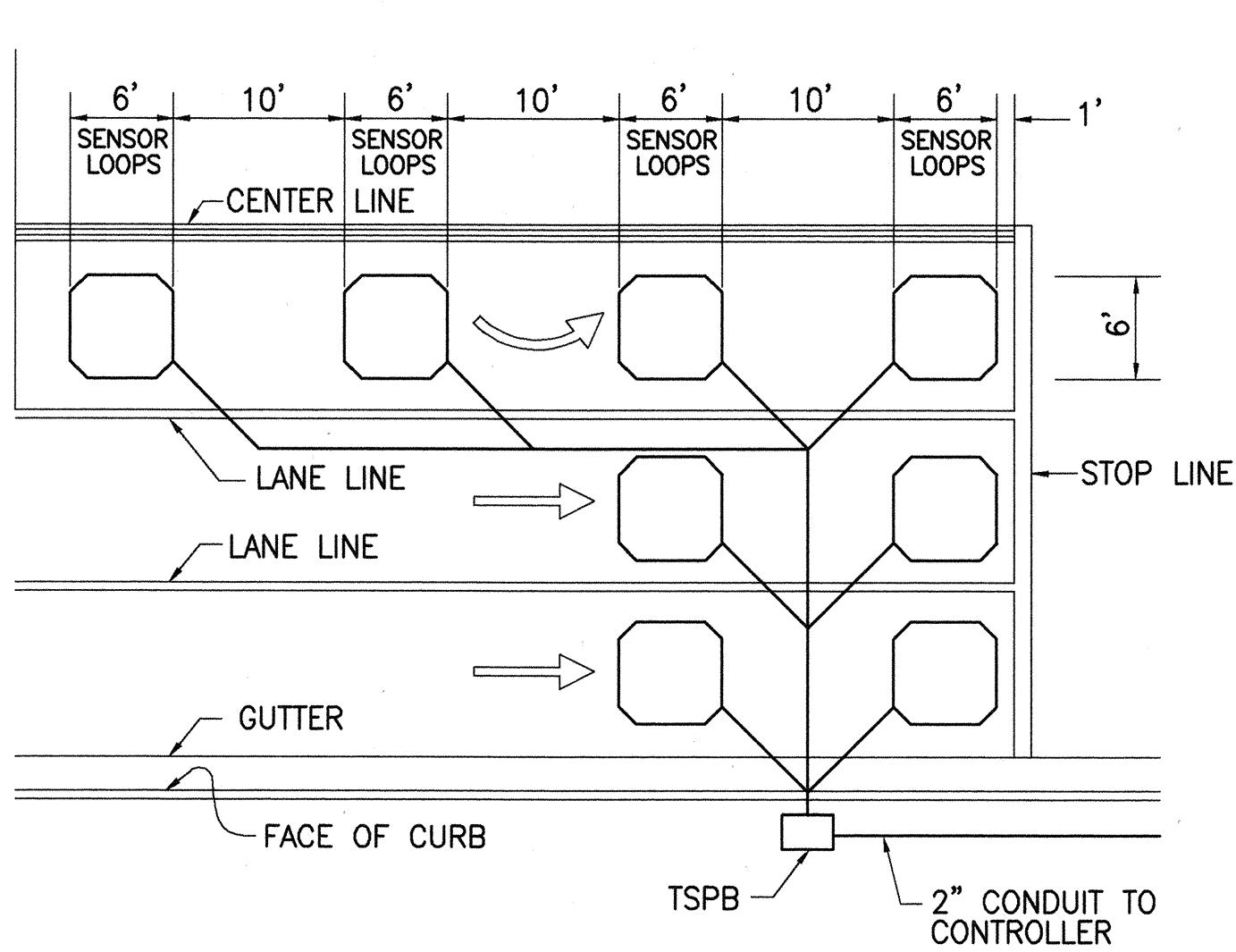
### MISCELLANEOUS DETAILS

SCALE: AS NOTED DATE: JAN. 1998

SHEET No. 1 OF 2 SHEETS

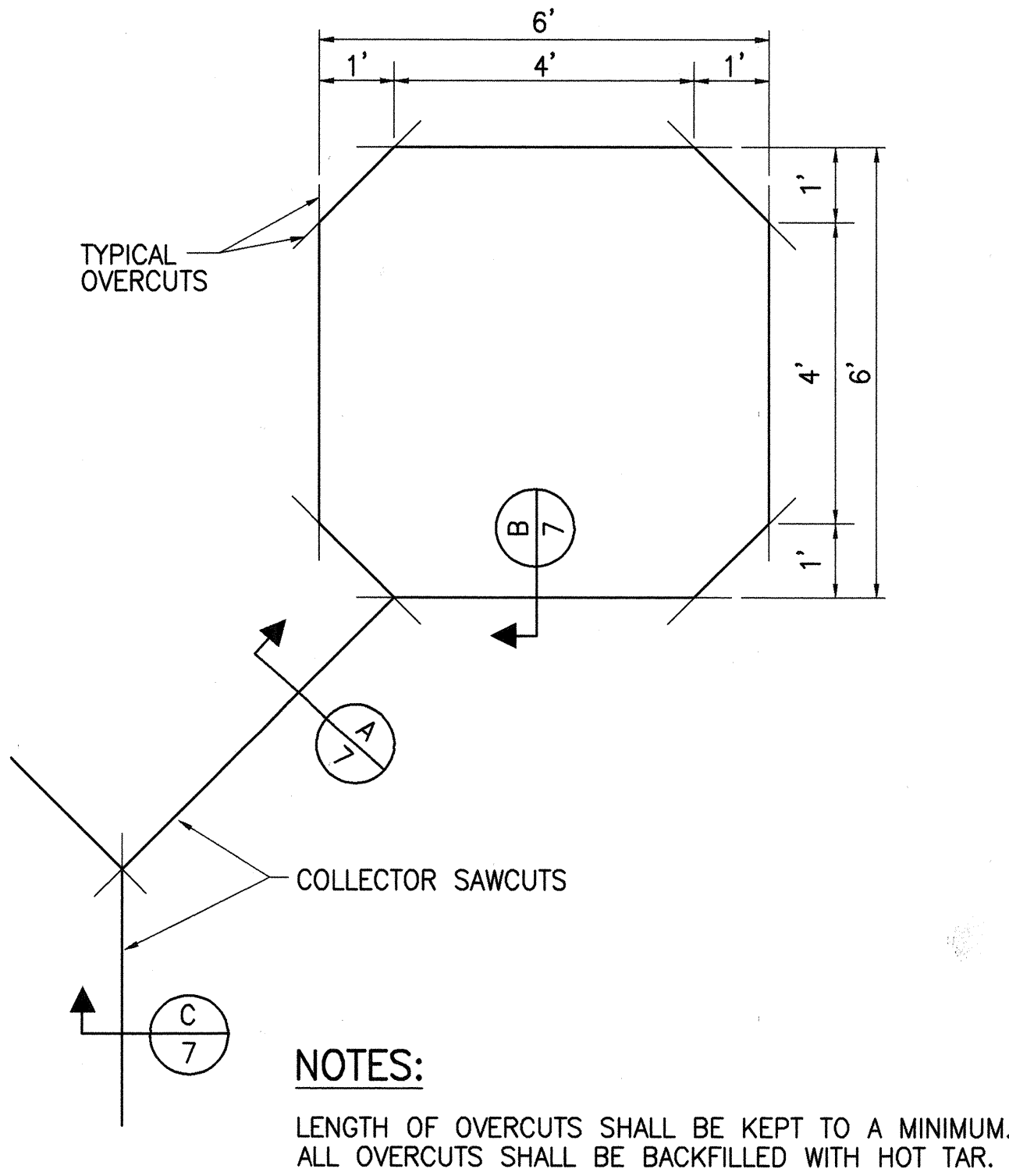


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(29)	1998	7	11

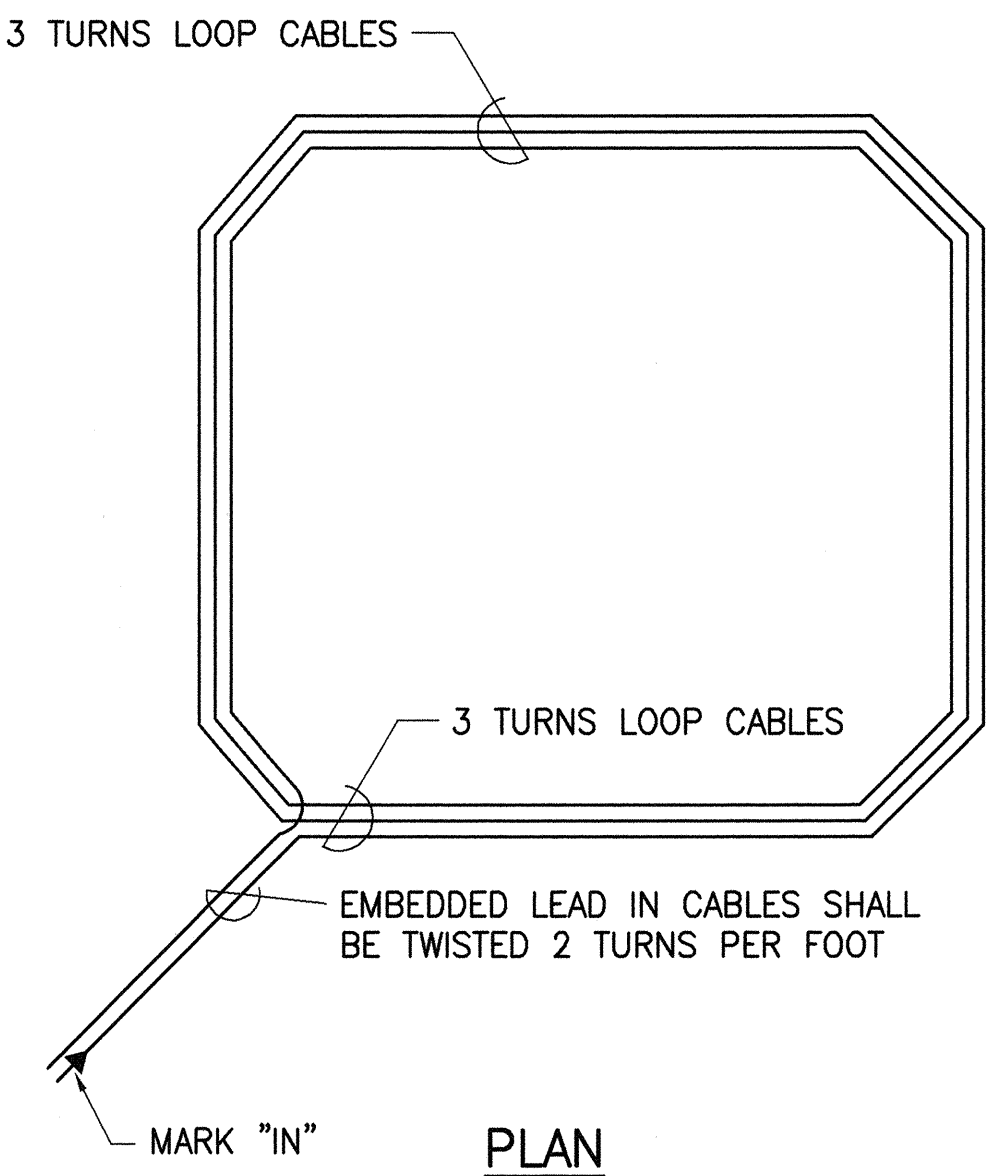


- NOTES:**
1. CENTER SENSOR LOOPS IN LANES.
  2. COLLECTOR CABLES SHALL BE TWISTED 2 TURNS PER FOOT.
  3. NUMBER OF LOOPS AND LOCATIONS VARY. SEE PROJECT PLANS.
  4. NUMBER AND LOCATIONS OF COLLECTOR SAWCUTS MAY BE VARIED IN THE FIELD TO SUIT.

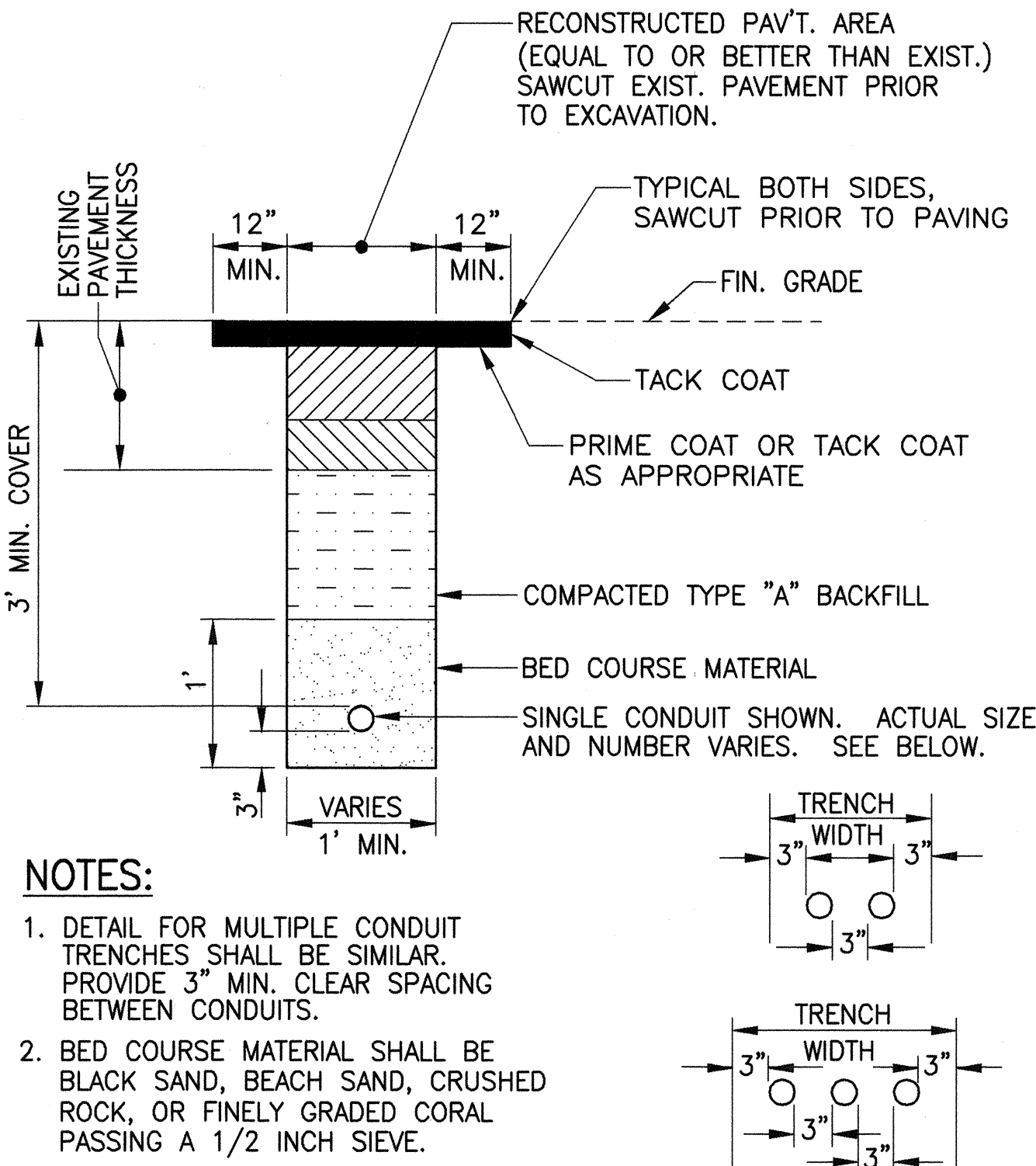
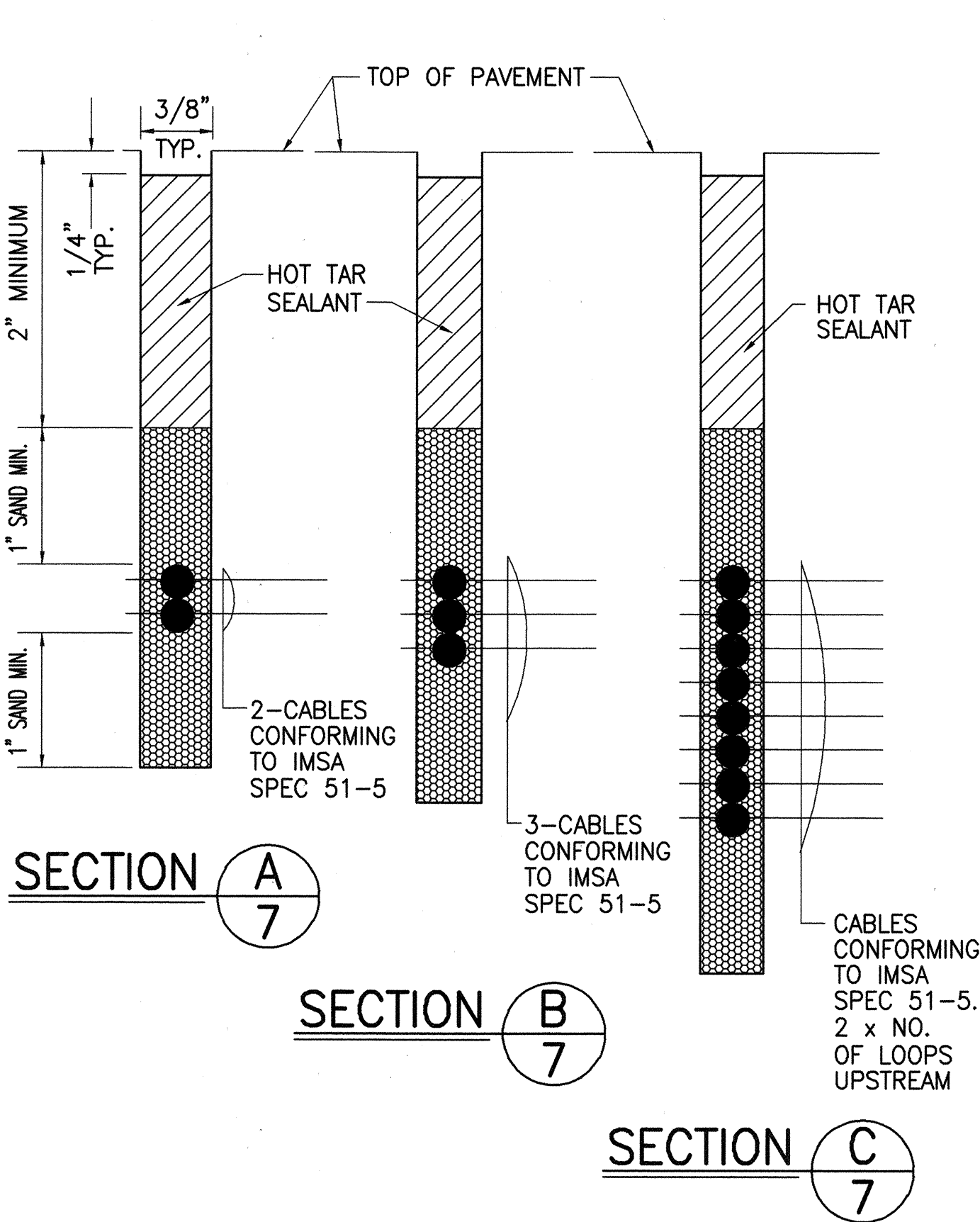
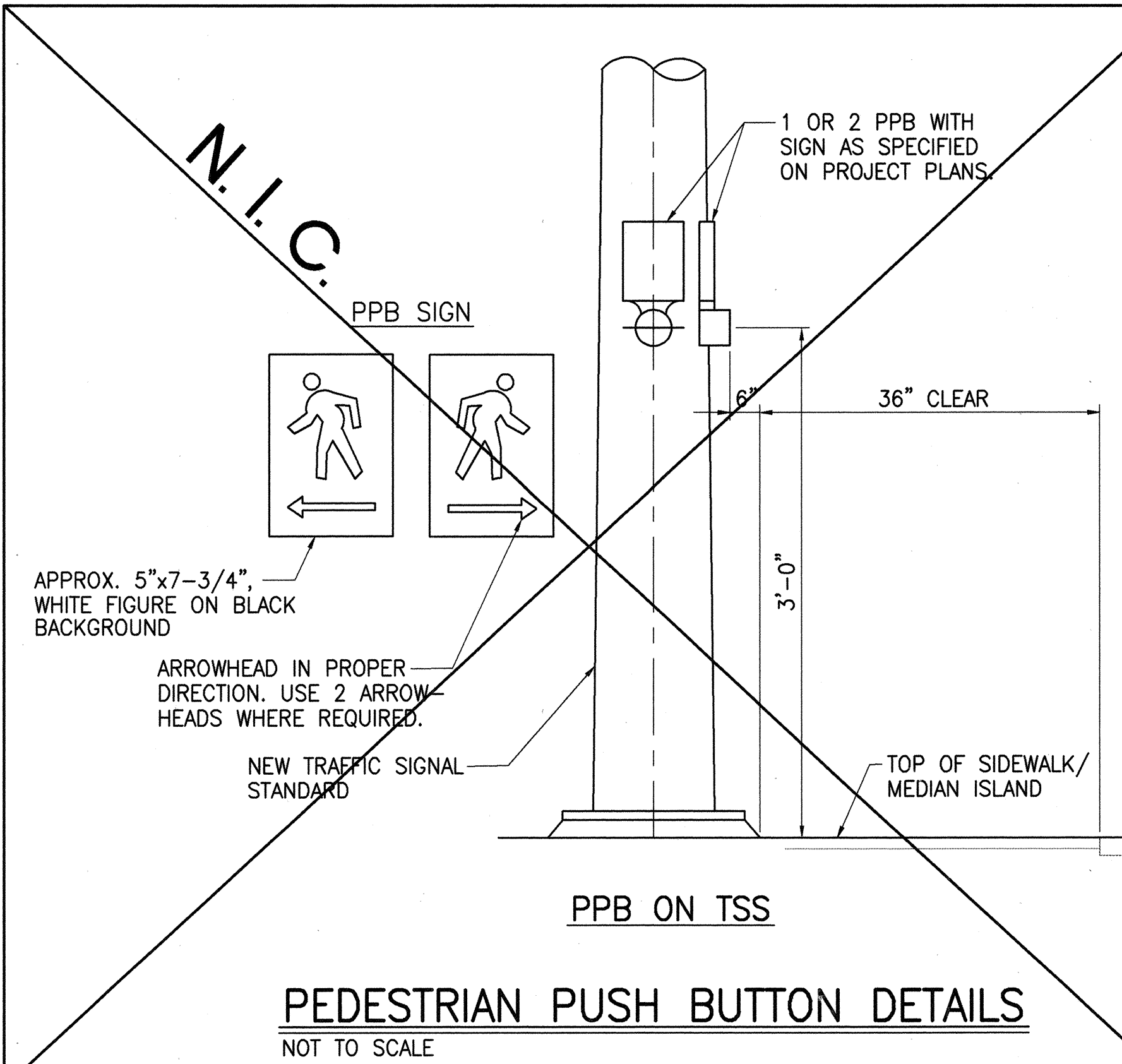
**TYPICAL SENSOR LOOP LAYOUT**  
NOT TO SCALE



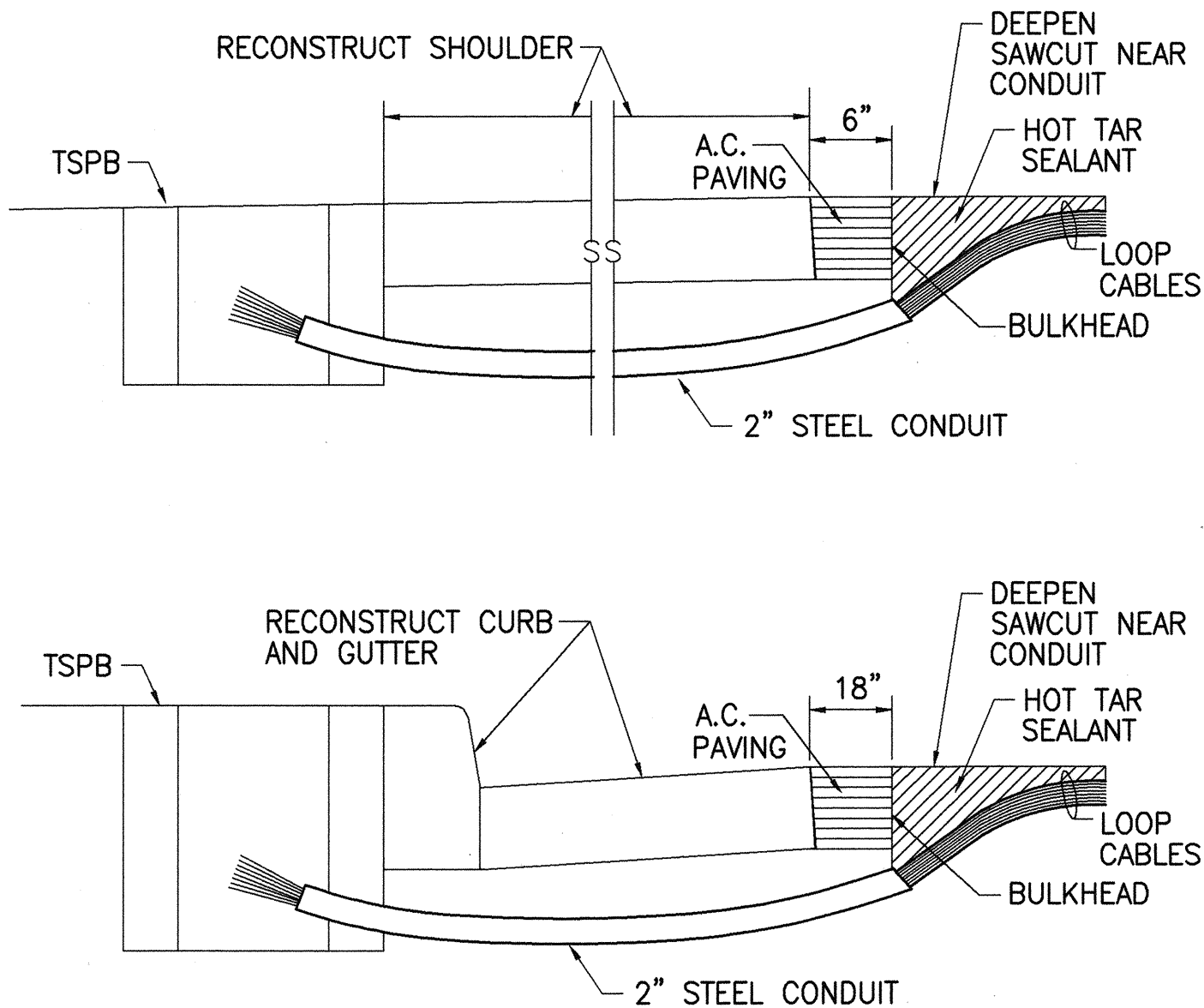
**TYPICAL SENSOR LOOP SAWCUT DETAIL**  
NOT TO SCALE



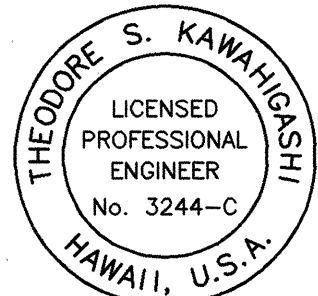
**TYPICAL SENSOR LOOP WIRING DIAGRAM**  
NOT TO SCALE



**TYPICAL TRENCH DETAIL**  
NOT TO SCALE



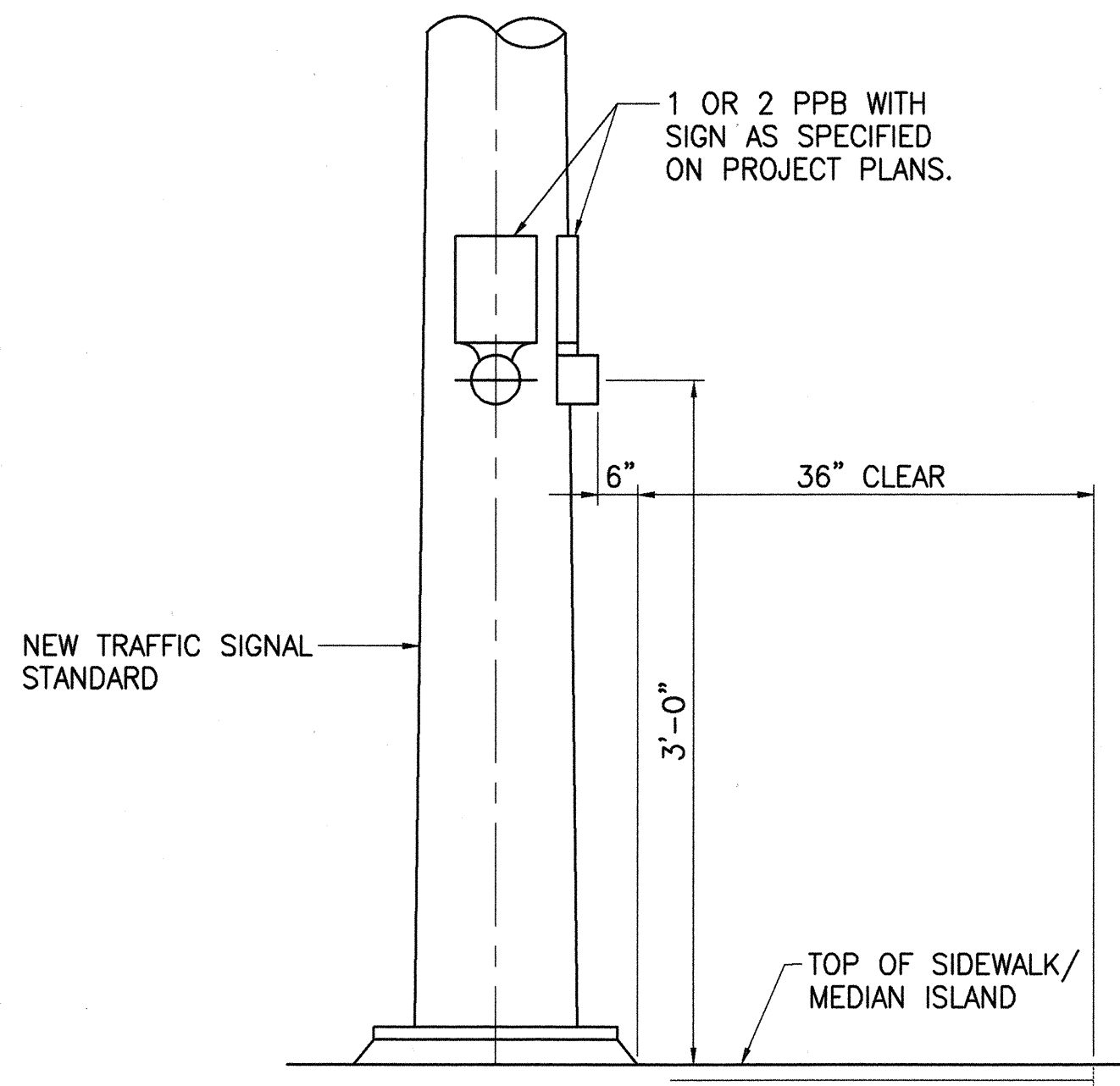
- NOTES ON CONSTRUCTION AT END OF SAWCUT**
1. SEAL ROADWAY END OF CONDUIT AFTER INSTALLATION OF CONDUCTORS
  2. INSTALL BULKHEAD ACROSS CONDUIT TRENCH.
  3. PLACE HOT TAR IN SAWCUT.
  4. BACKFILL OVER CONDUIT WITH NEW A.C.
  5. RECONSTRUCT CURB AND GUTTER AS REQUIRED.
- DETAIL OF SENSOR LOOP INSTALLATION AT EDGE OF ROADWAY**  
NOT TO SCALE



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION  
*Theodore S. Kawahiga*  
Signature

04/24/98	DELETED PEDESTRIAN PUSH BUTTON DETAILS PER ADDENDUM NO. 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>MISCELLANEOUS DETAILS</b> HONOAPIILANI HIGHWAY INTERSECTION IMPROVEMENTS AT DICKENSON STREET FAP NO. STP-030-1(29)	
SCALE: AS NOTED	DATE: APRIL 24, 1998
SHEET No. 2 OF 2 SHEETS	

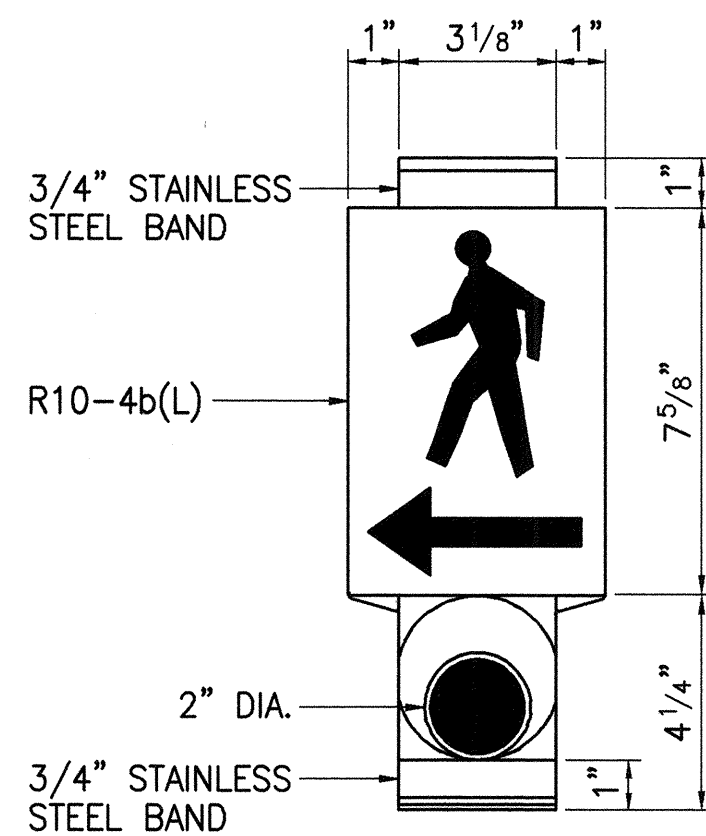
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(29)	1998	7S-1	11



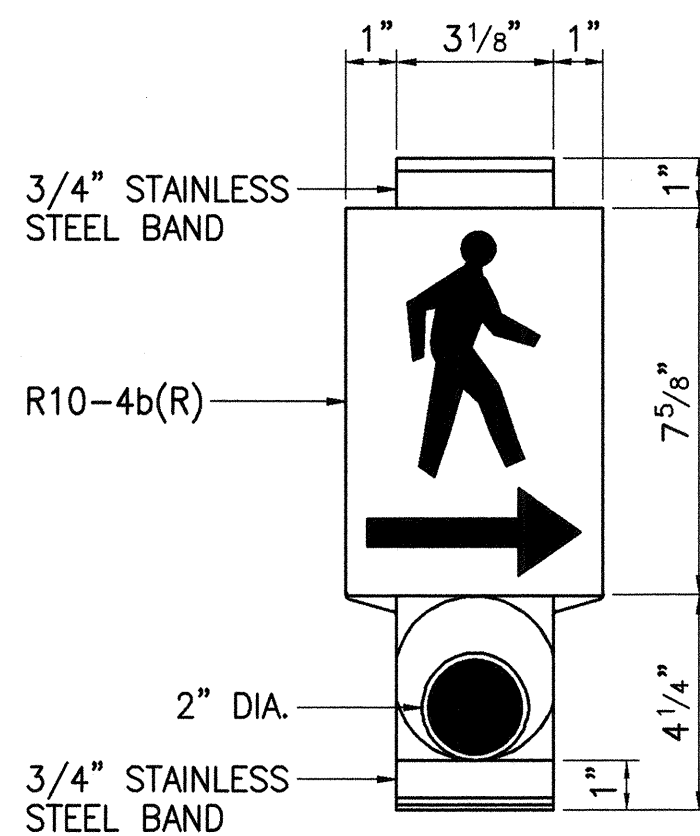
PPB ON TSS

THE COLOR SCHEME SHALL BE:  
WHITE - MAN, ARROW AND PUSH BUTTON  
BLACK - BACKGROUND

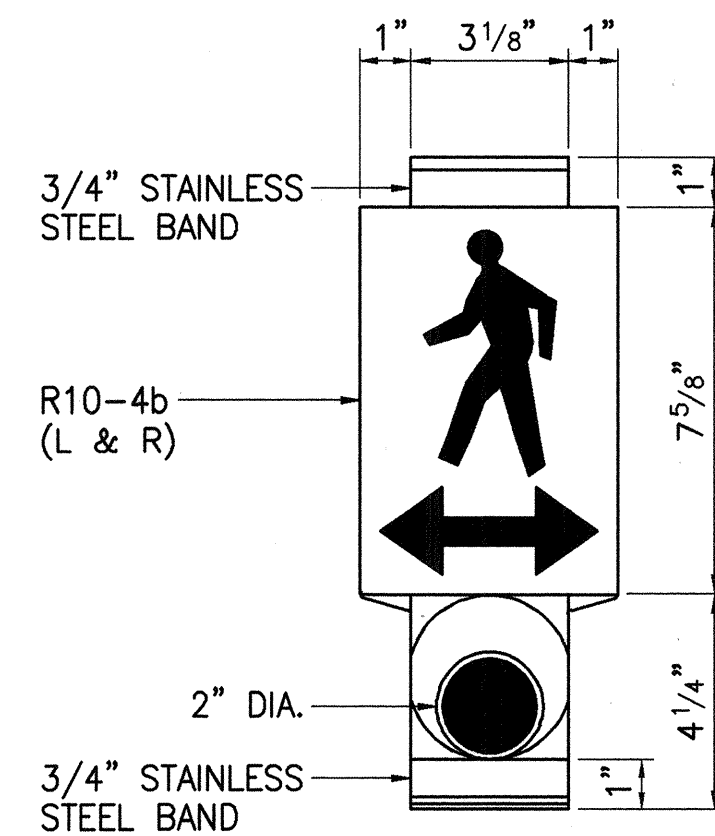
NOTE: USE APPLICABLE DETAIL SO ARROWHEAD IS IN THE PROPER DIRECTION.  
SEE TRAFFIC SIGNAL PLAN SHEET.



LEFT



RIGHT

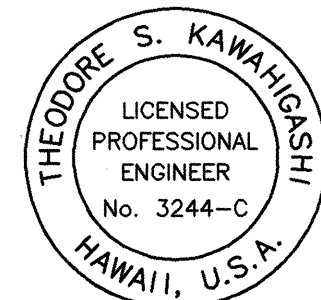


LEFT & RIGHT

## PEDESTRIAN PUSH BUTTON DETAILS

NOT TO SCALE

04/24/98	ADDED SHEET PER ADDENDUM NO. 1
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>PED. PUSH BUTTON DETAILS</b>	
HONOAPIILANI HIGHWAY INTERSECTION IMPROVEMENTS AT DICKENSON STREET FAP NO. STP-030-1(29)	
SCALE: AS NOTED	DATE: APRIL 24, 1998



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION  
*Theodore S. Kawahigashi*  
Signature

SHEET No. OF SHEETS

ADD. 7S-1