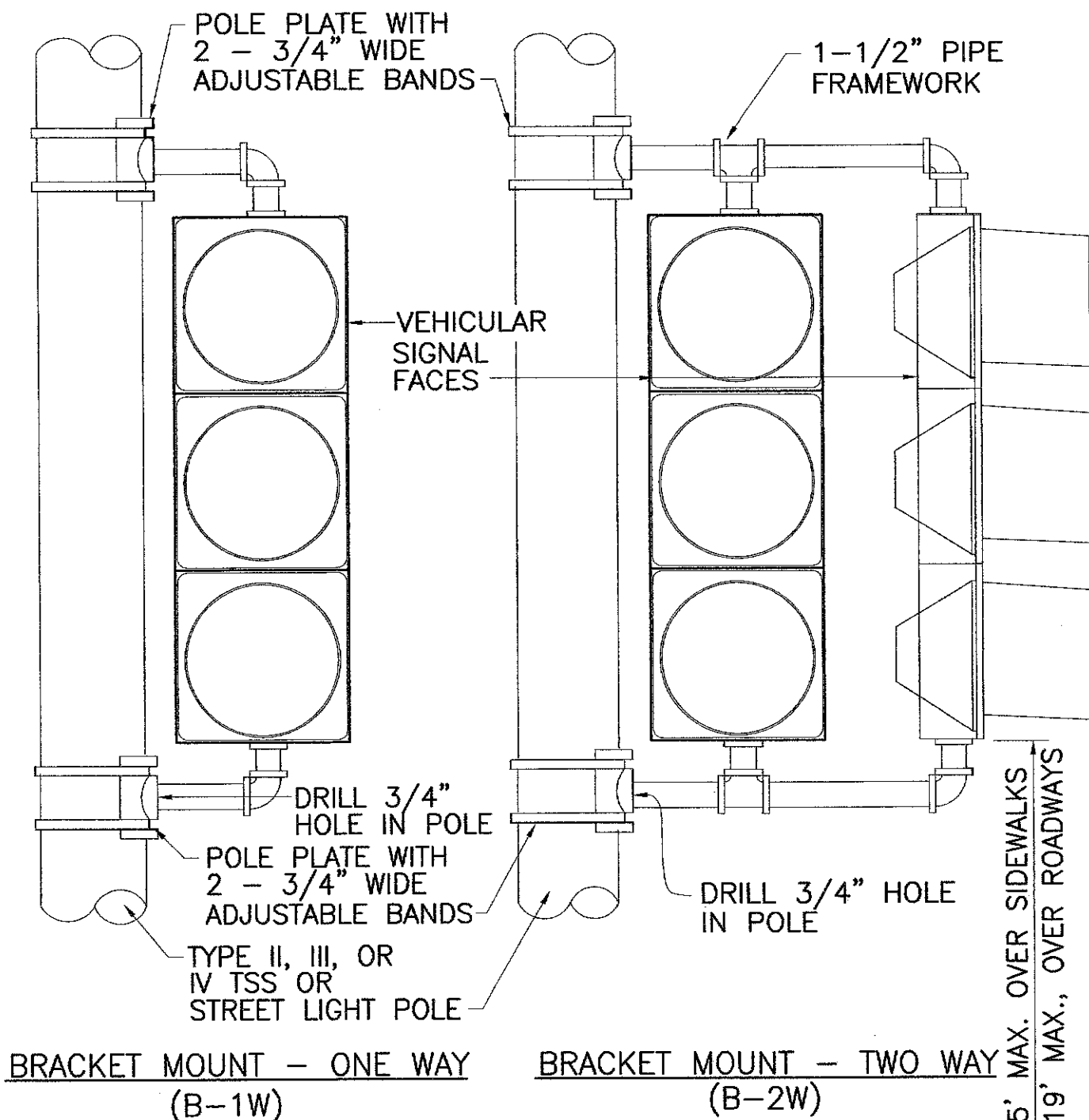
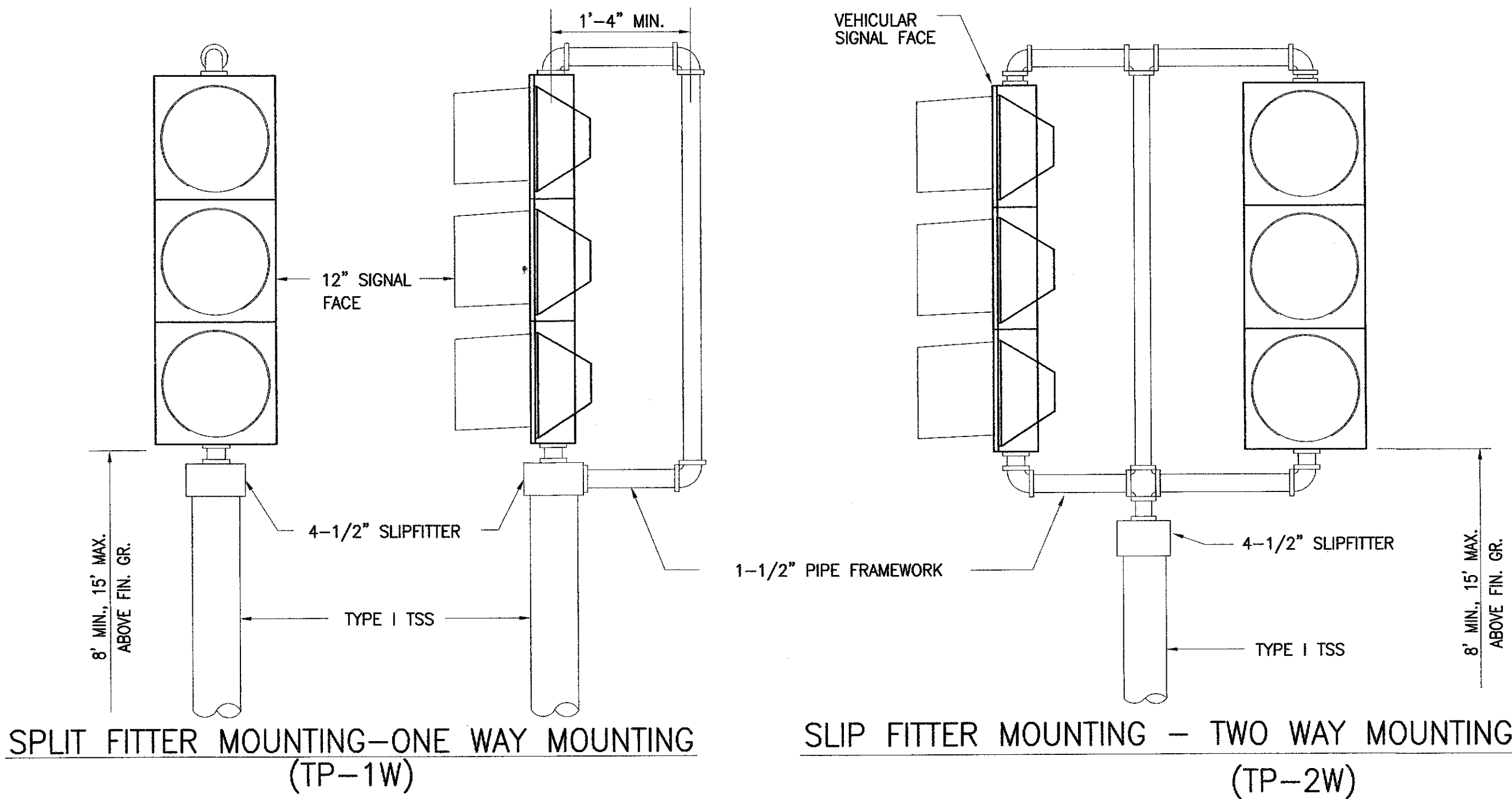




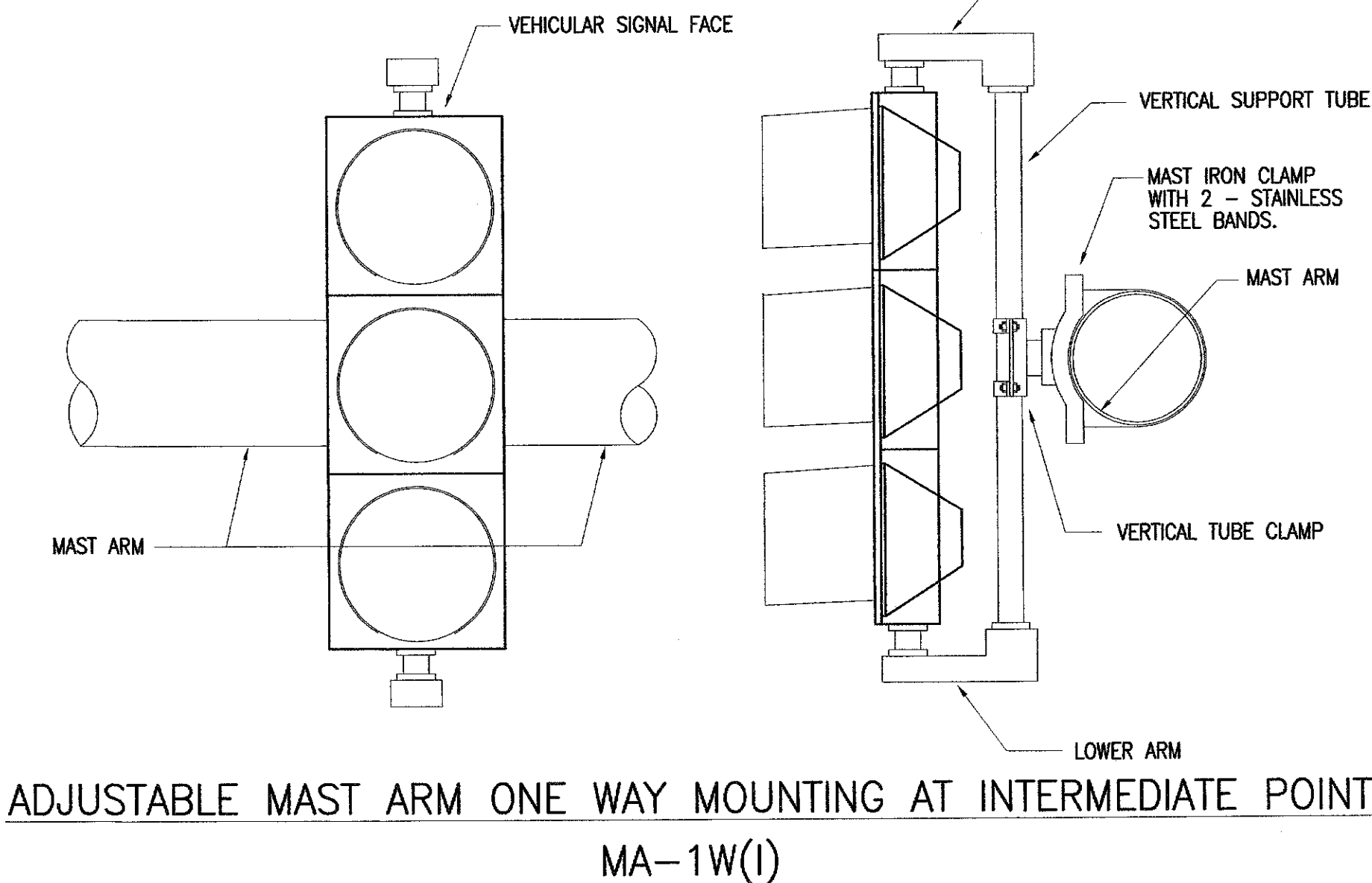
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0001(36)	2008	38	42



BRACKET MOUNT - ONE AND TWO WAY MOUNTING (B-1W AND B-2W)

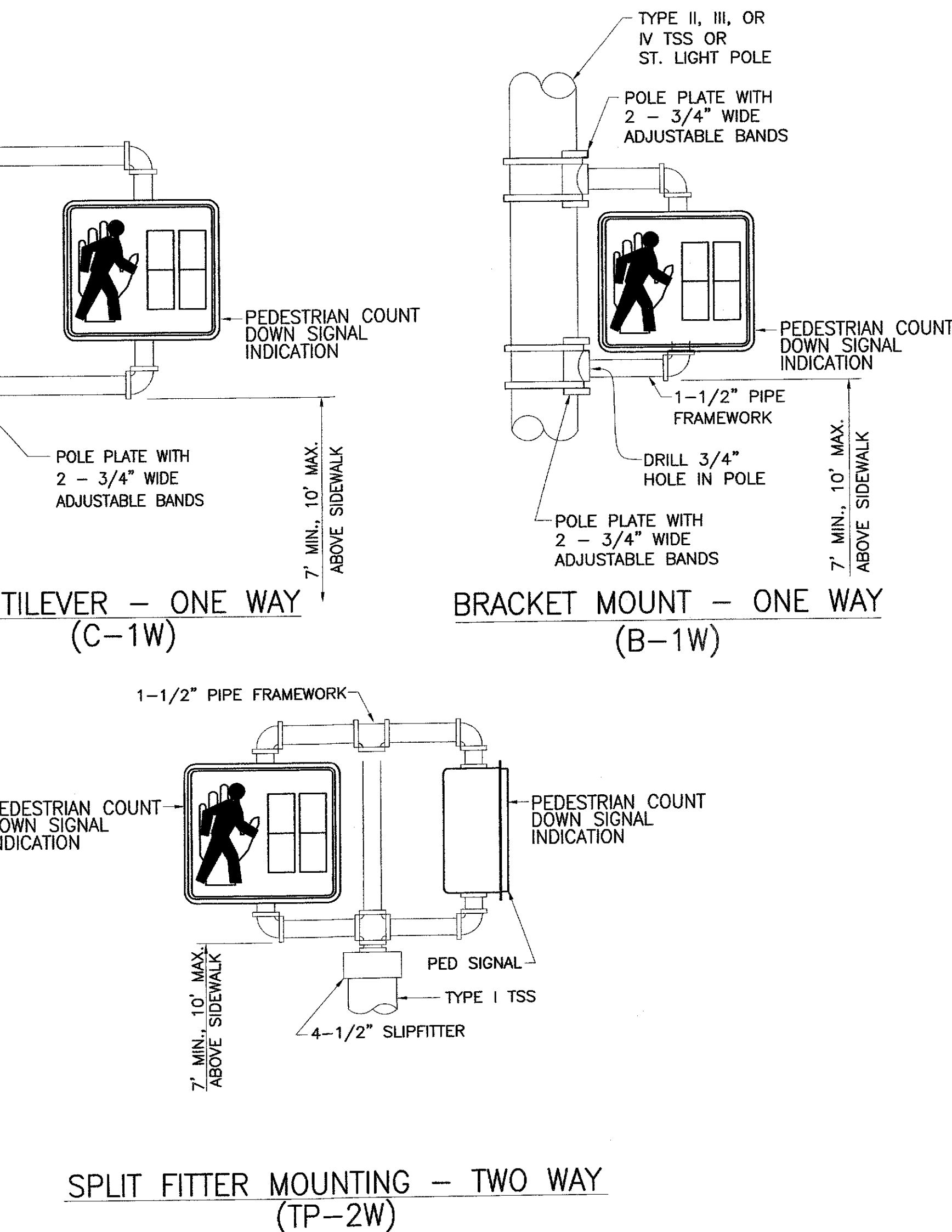
TRAFFIC SIGNAL MOUNTINGS

NOT TO SCALE



APPROVED:

CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIVISION  
DEPARTMENT OF TRANSPORTATION SERVICES  
CITY AND COUNTY OF HONOLULU



- NOTES:
1. STAINLESS STEEL BANDS SHALL BE 1/2" WIDE X .050" THICK, MINIMUM. TENSILE STRENGTH SHALL BE 100,000 PSI MINIMUM.
  2. UPPER ARM, LOWER ARM AND VERTICAL SUPPORT TUBE SHALL BE OF 356 CAST ALUMINUM.
  3. ALL WIRING SHALL BE CONCEALED.
  4. VERTICAL TUBE CLAMP SHALL BE OF MALLEABLE IRON, GRADE 32510.
  5. ALL ALUMINUM PARTS SHALL HAVE AN ALODINE 1200 FINISH.

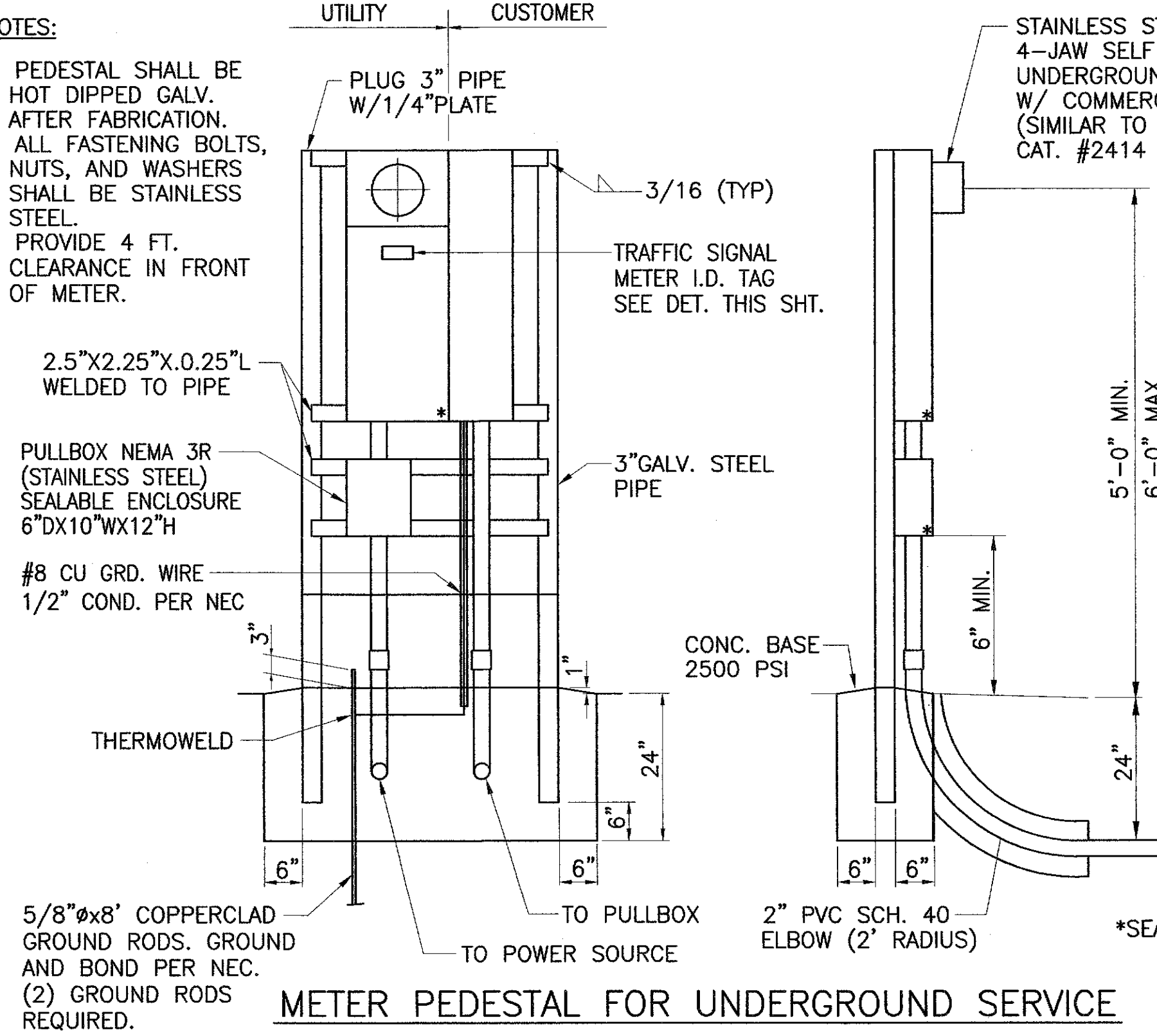
REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

<div> </div>				<div> DEPARTMENT OF TRANSPORTATION SERVICES CITY &amp; COUNTY OF HONOLULU </div>			
<div> TRAFFIC CONTROL SIGNALIZATION AT VARIOUS LOCATIONS ON OAHU, PHASE X FEDERAL-AID NO. STP-0001(36) </div>				<div> TRAFFIC SIGNAL DETAILS-2 </div>			
DESIGN	LHY	DATE		08/04/08			
DRAWN	LHY	FILE		DRAW			
CHECKED	KKN	FOLDER		NO.			
PROJECT NO.		FILE		DRAW			
FOLDER		NO.					

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0001(36)	2008	39	42

NOTES:

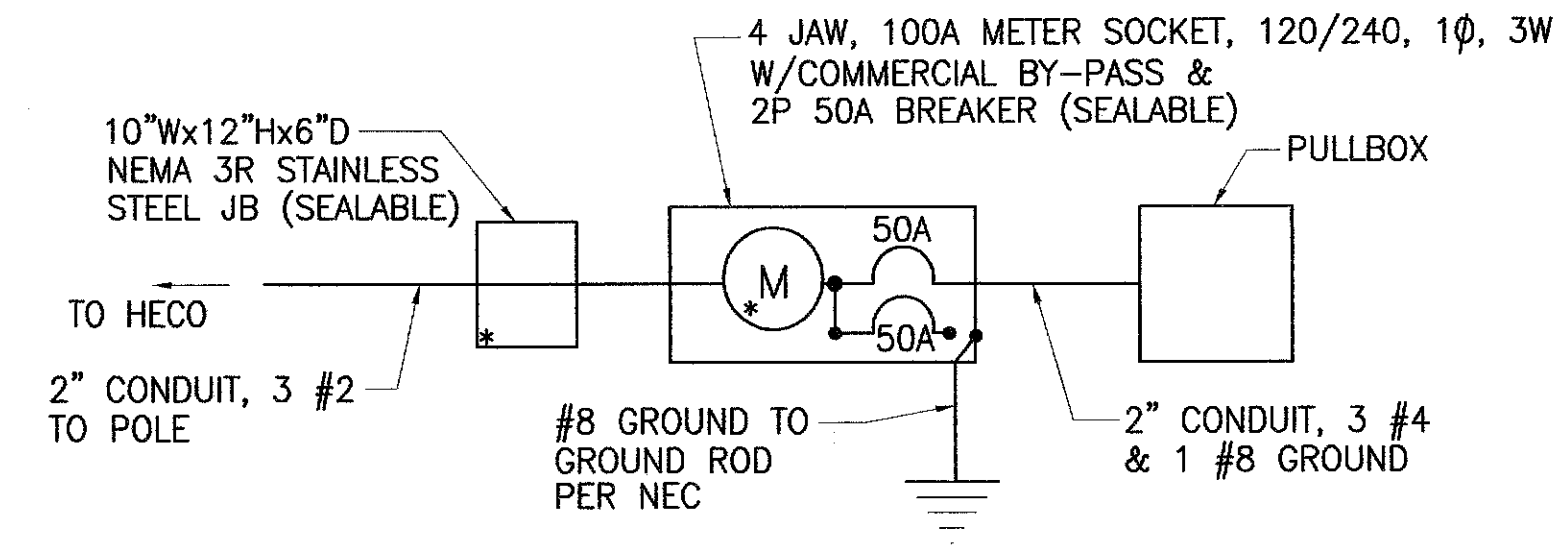
1. PEDESTAL SHALL BE HOT DIPPED GALV. AFTER FABRICATION.
2. ALL FASTENING BOLTS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL.
3. PROVIDE 4 FT. CLEARANCE IN FRONT OF METER.



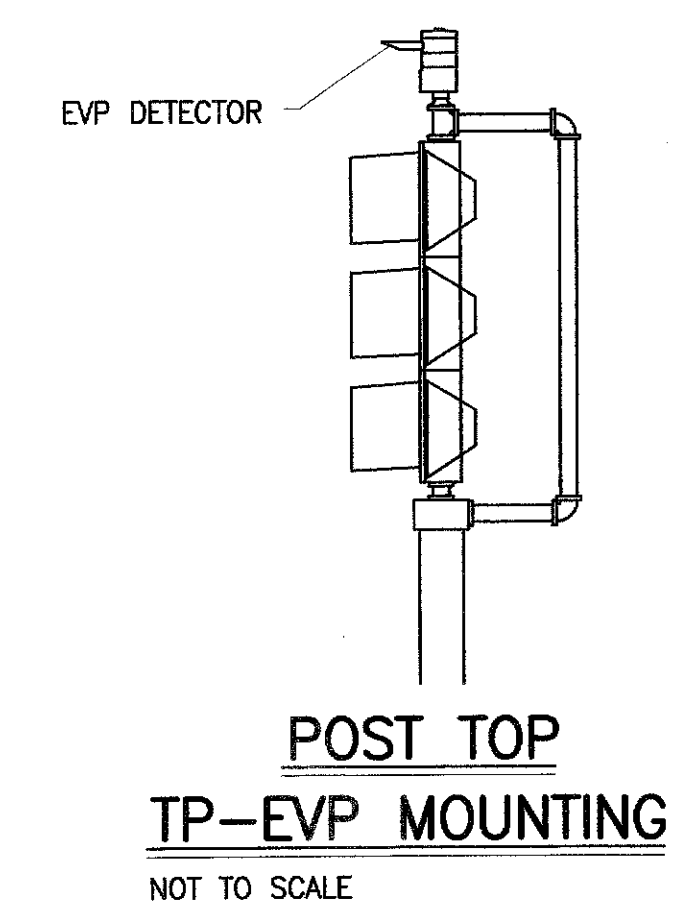
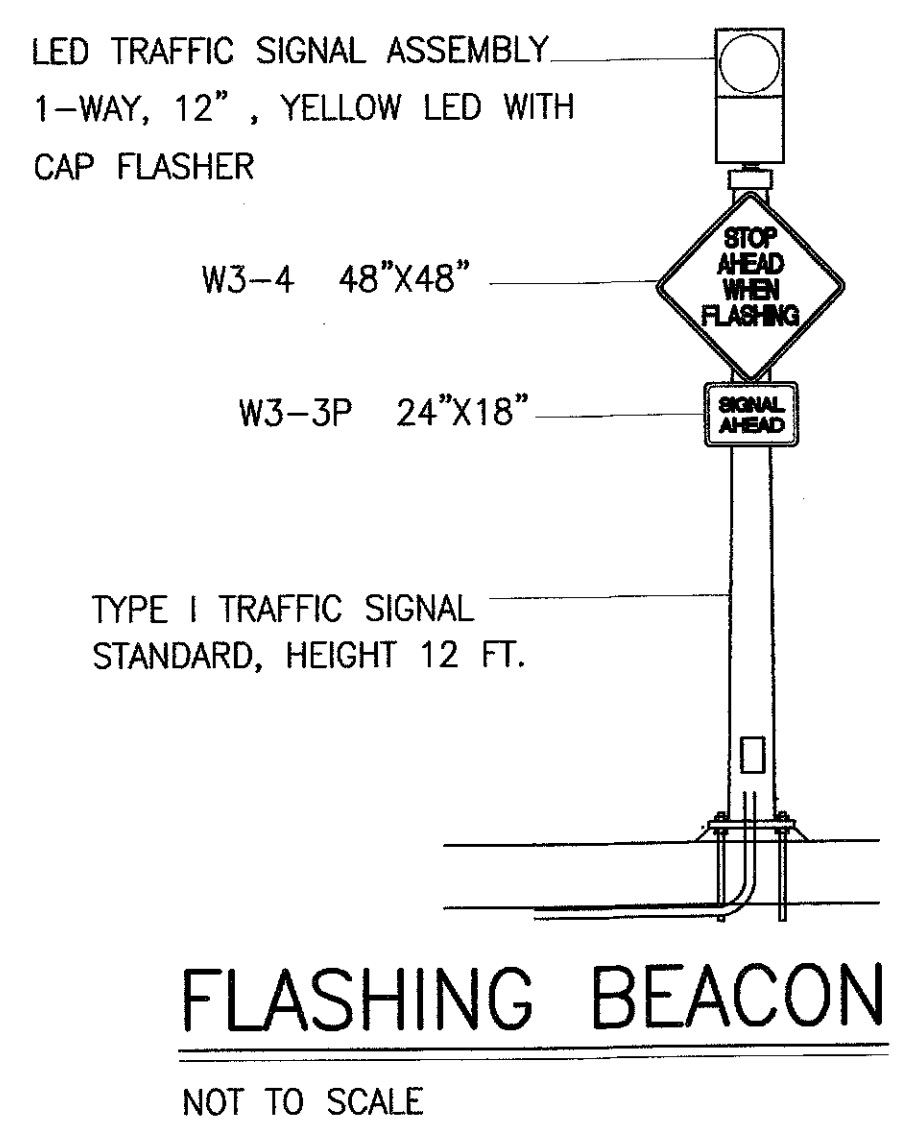
ELECTRICAL SERVICE DETAIL  
NOT TO SCALE

NOTES

1. PROVIDE PERMANENT IDENTIFICATION LABELS FOR ALL METER SOCKETS TO IDENTIFY THE UNIT OR SPACE SERVED.
2. PROVIDE A MINIMUM OF 4 FEET CLEAR AND LEVEL WORKSPACE CLEARANCE IN FRONT OF METERING AND SERVICE EQUIPMENT.
3. AT TIME OF INSTALLATION, PROVIDE AND INSTALL SOCKET COVERS (PLASTIC) AND BANDS FOR ALL BLANK METER SOCKETS. IDENTIFY COVERS SO COVERS CAN BE RETURNED.

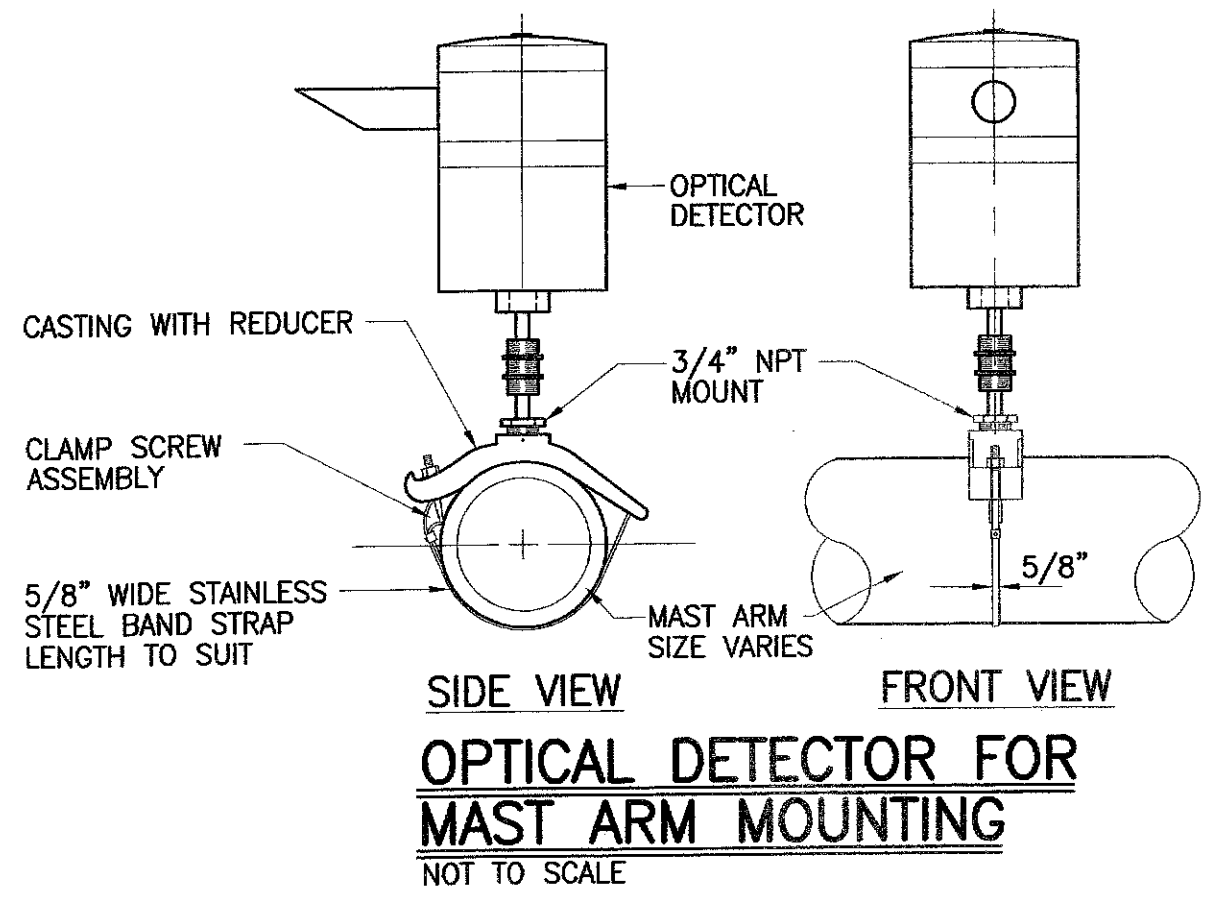


ONE-LINE DIAGRAM  
NOT TO SCALE



NOTES:

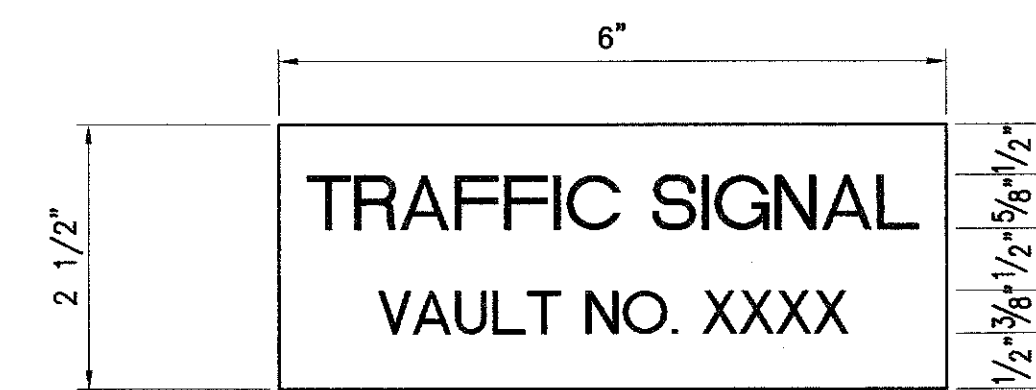
1. OPTICAL DETECTOR SHALL BE "MODEL 711 PREEMPTION DETECTOR" OR APPROVED EQUAL, UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
2. SUPPORT SADDLE ASSEMBLY SHALL BE "ASTRO MINI-BRAC, AB-0132-29", OR APPROVED EQUAL, UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.



NOTES:

1. USE 3-PLY LAMINATED FLEXIBLE PLASTIC, BLACK-WHITE-BLACK THICKNESS: BLACK CAP SHEET - 0.010", WHITE BASE SHEET - 0.052", BLACK BASE SHEET - 0.010".
2. ATTACH TO METER BOX USING SCOTCH 3M BRAND VERY HIGH BOND (VHB) DOUBLE COATED ACRYLIC FOAM TAPE OR EQUIVALENT.
3. LETTERS/NUMBERS SHALL BE 1/16" STROKE, (WHITE IN COLOR).
4. LETTERS/NUMBERS SHALL BE INSCRIBED BY CUTTING THROUGH "BLACK CAP SHEET" TO EXPOSE WHITE LETTERS/NUMBERS.

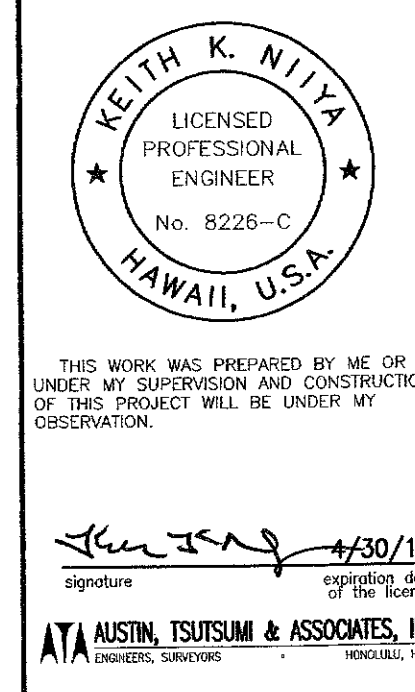
METER I.D. TAG DETAIL  
NOT TO SCALE



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DEPARTMENT OF TRANSPORTATION SERVICES  
CITY AND COUNTY OF HONOLULU

DATE

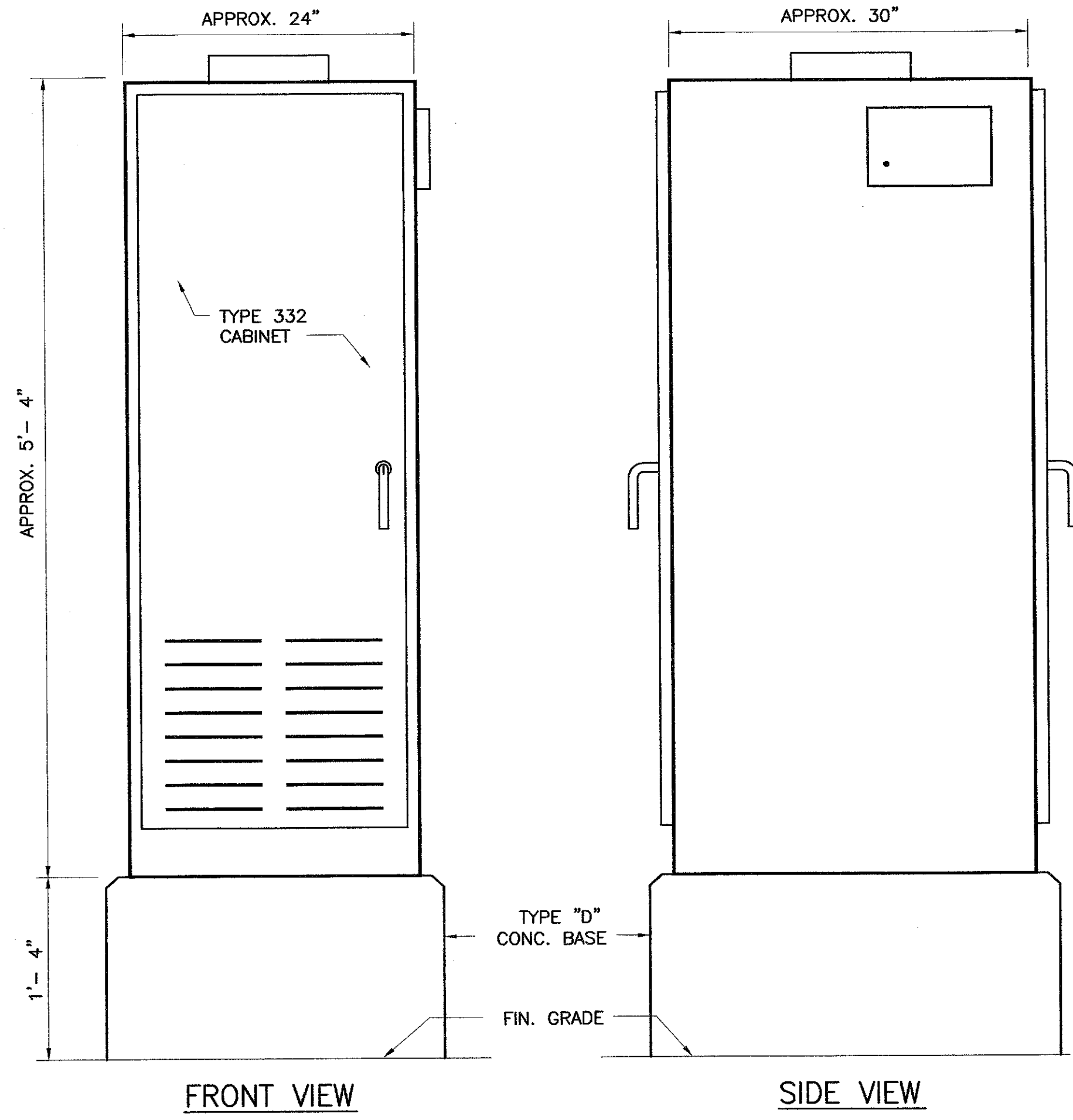
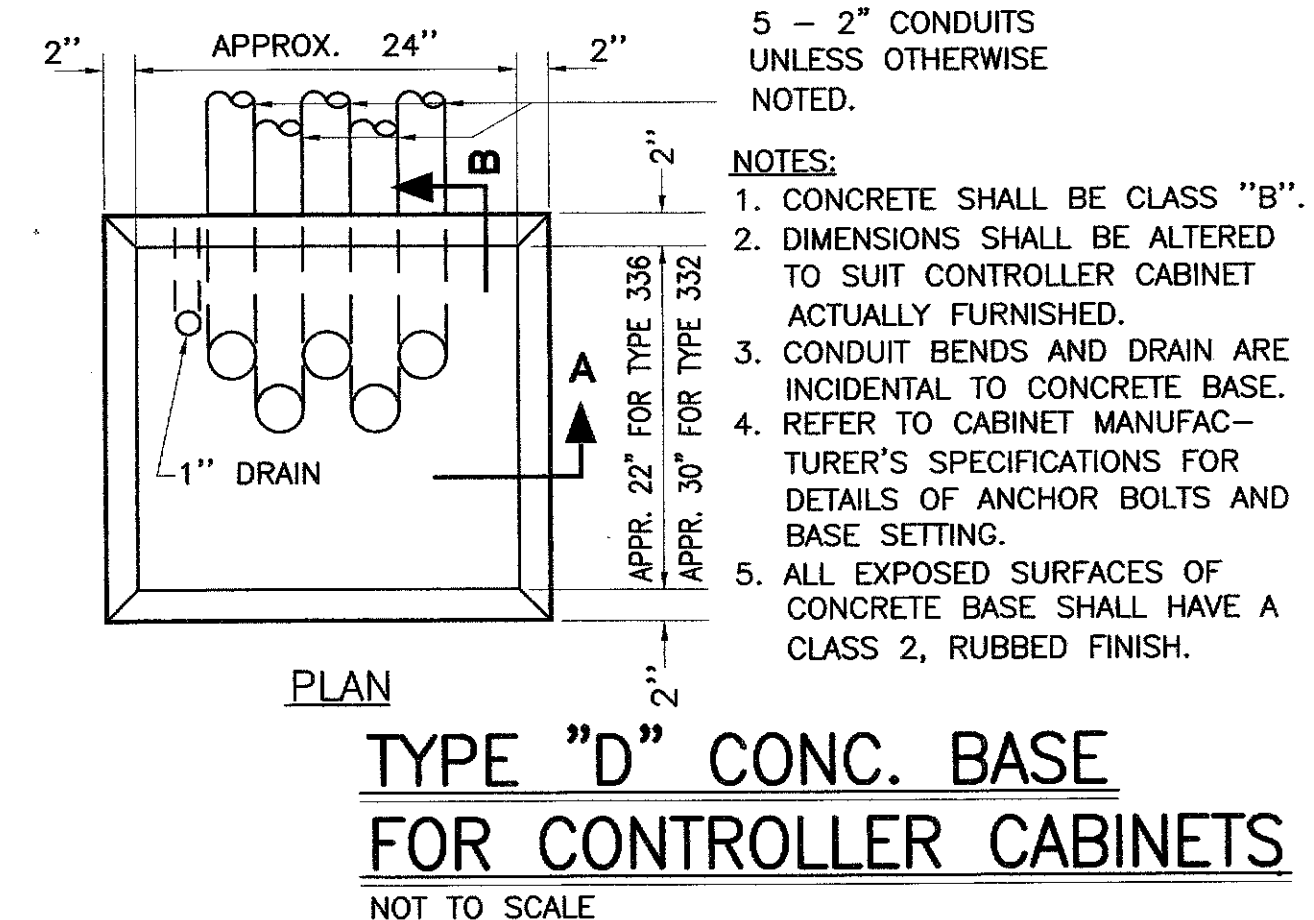
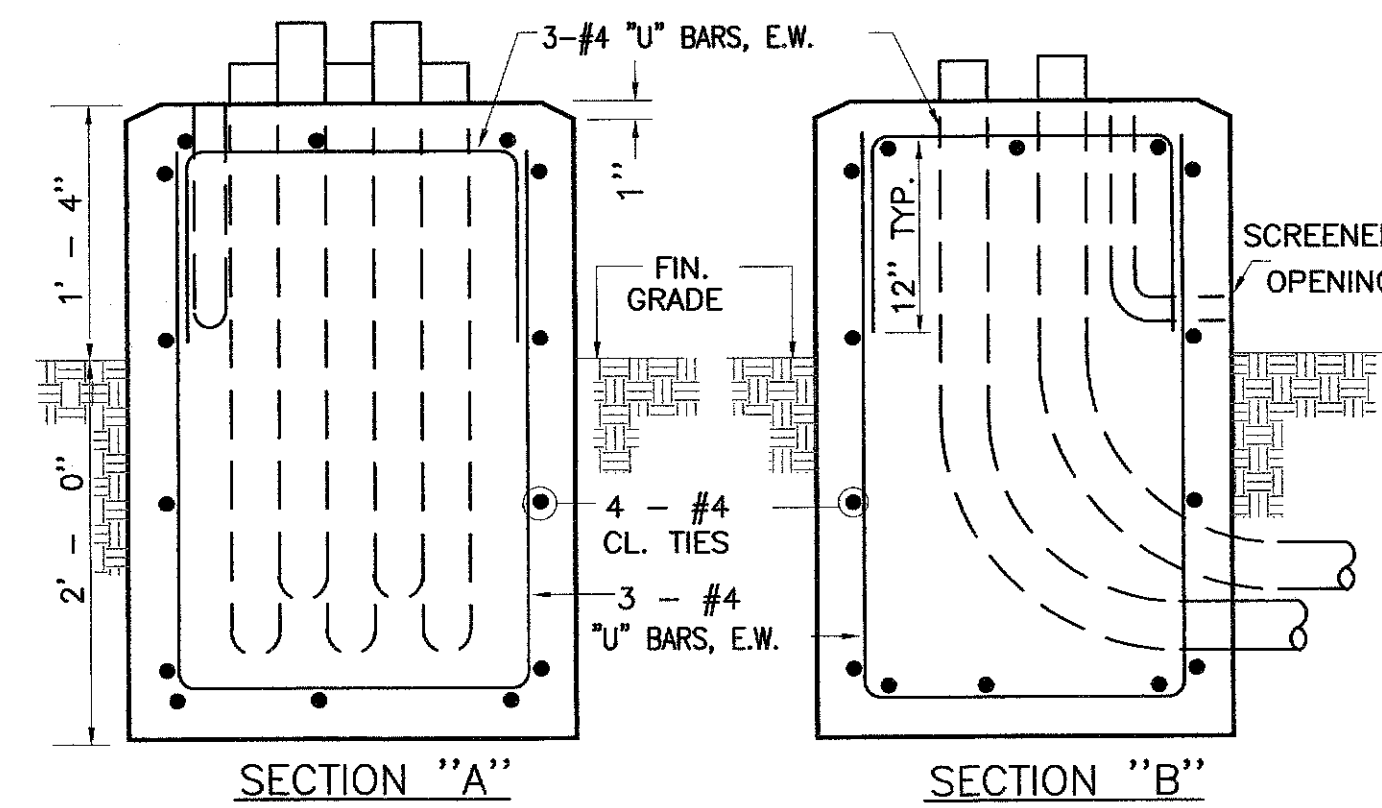


REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED
DEPARTMENT OF TRANSPORTATION SERVICES CITY & COUNTY OF HONOLULU				
TRAFFIC CONTROL SIGNALIZATION AT VARIOUS LOCATIONS ON OAHU, PHASE X FEDERAL-AID NO. STP-0001(36)				
TRAFFIC SIGNAL DETAILS-3				
DESIGN	LHY			
DRAWN	LHY			
CHECKED	KKN			
DATE	08/04/08			
PROJECT NO.		FILE	DRAW	FOLDER

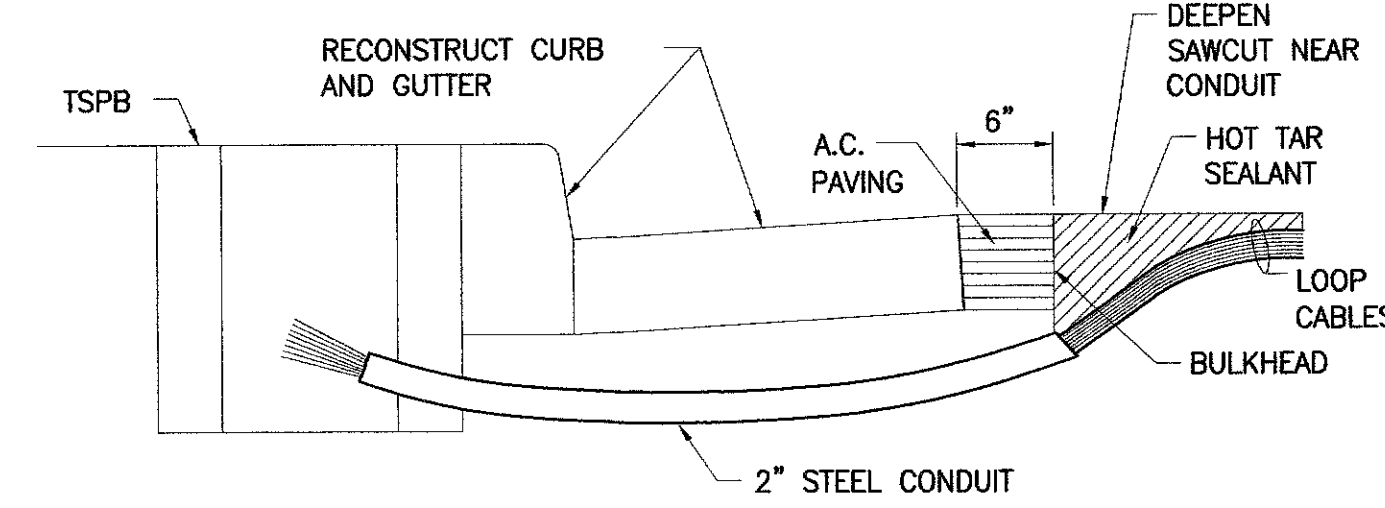
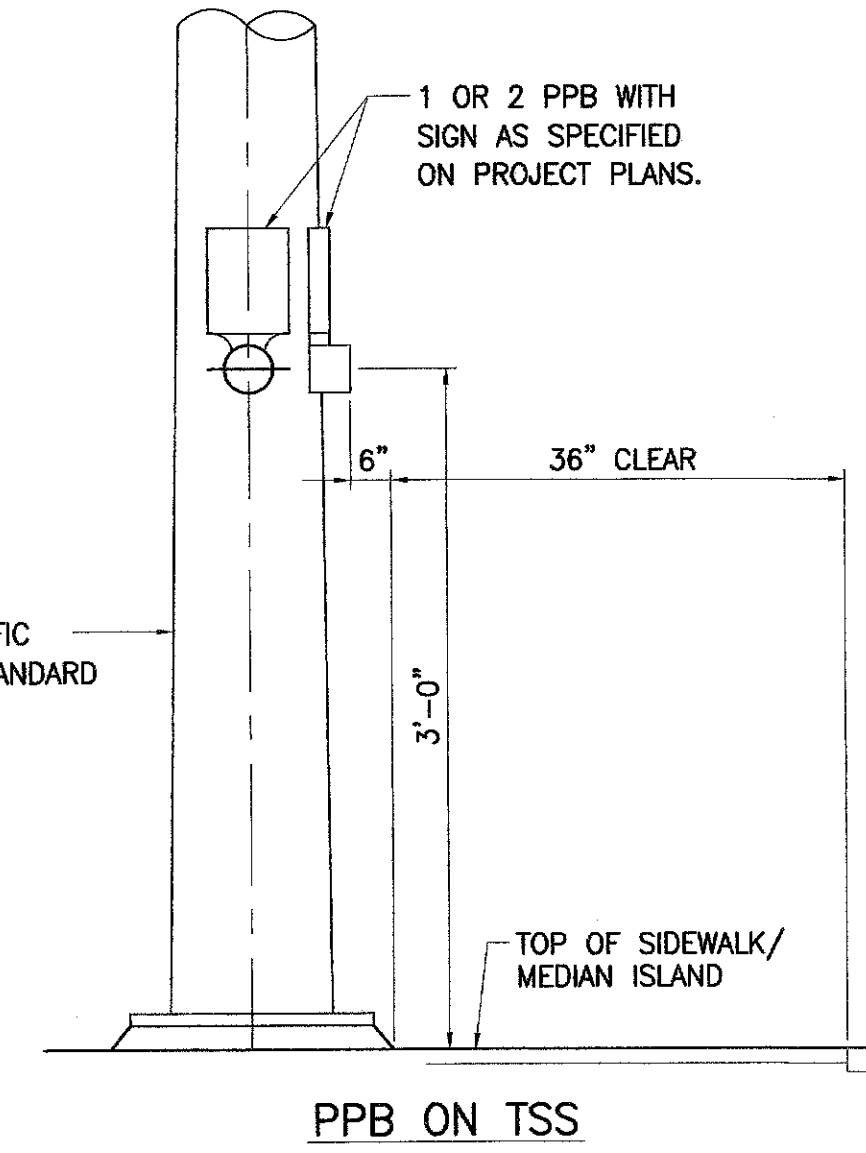
C-39  
SHEET 39  
OF 42 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0001(36)	2008	40	42



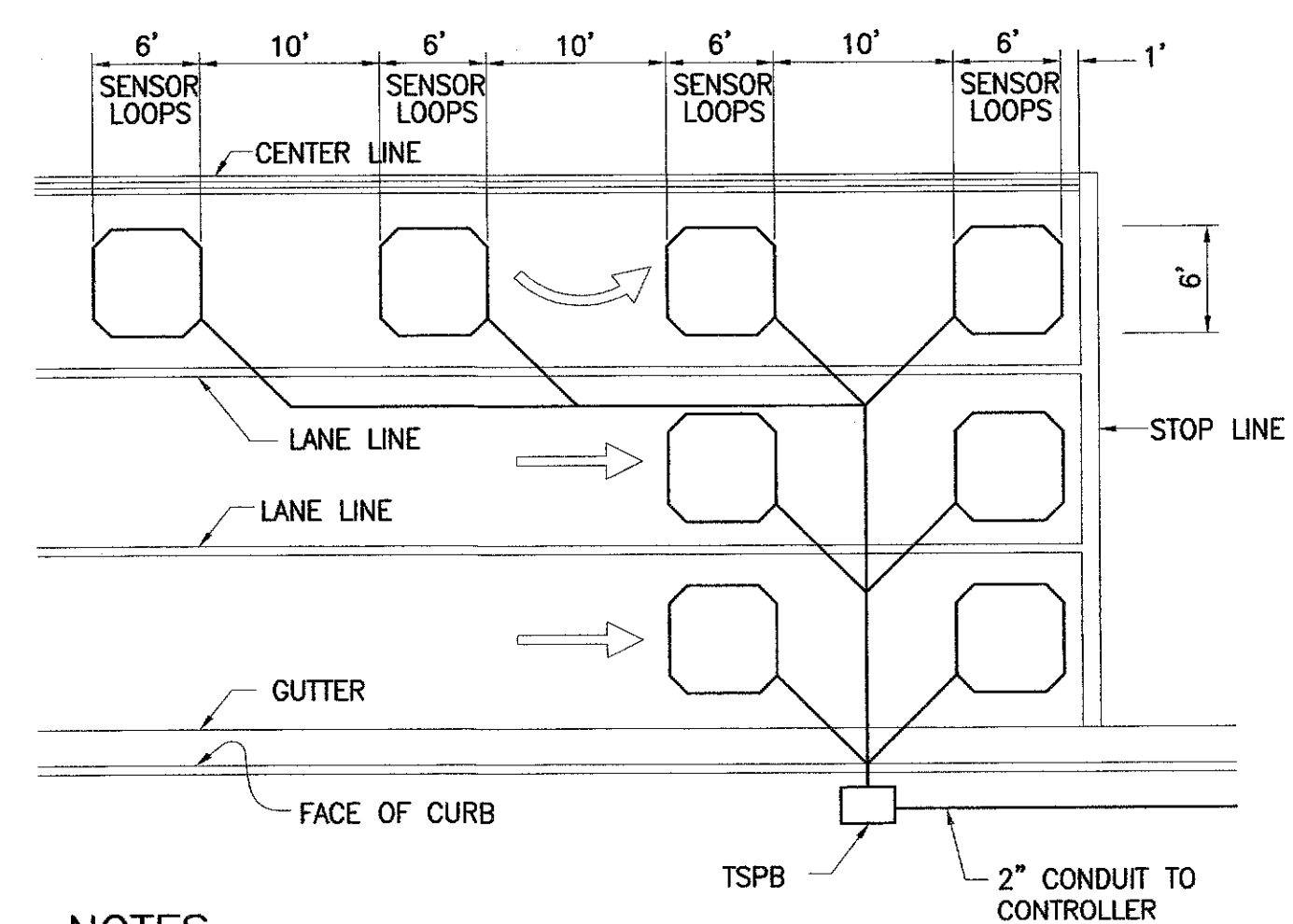
**332 CABINET**  
NOT TO SCALE



**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

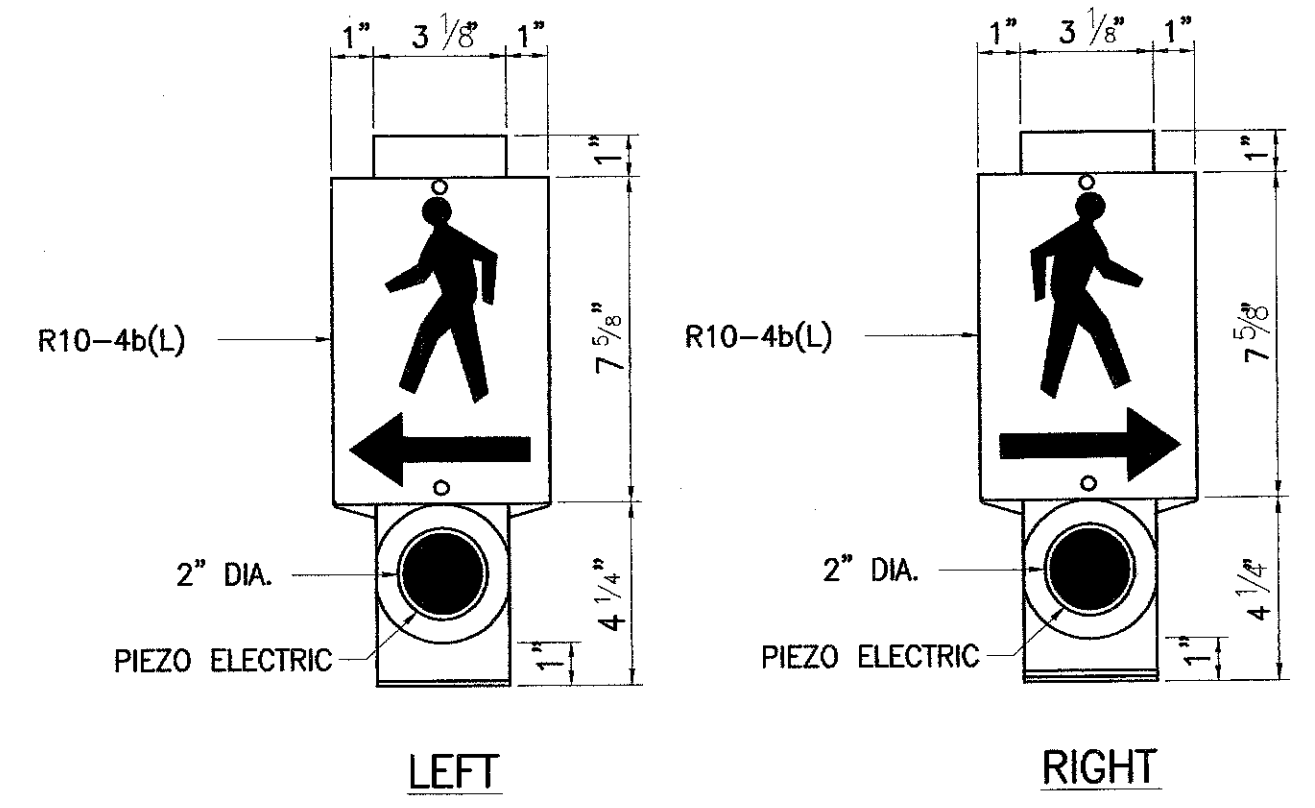


**NOTES:**

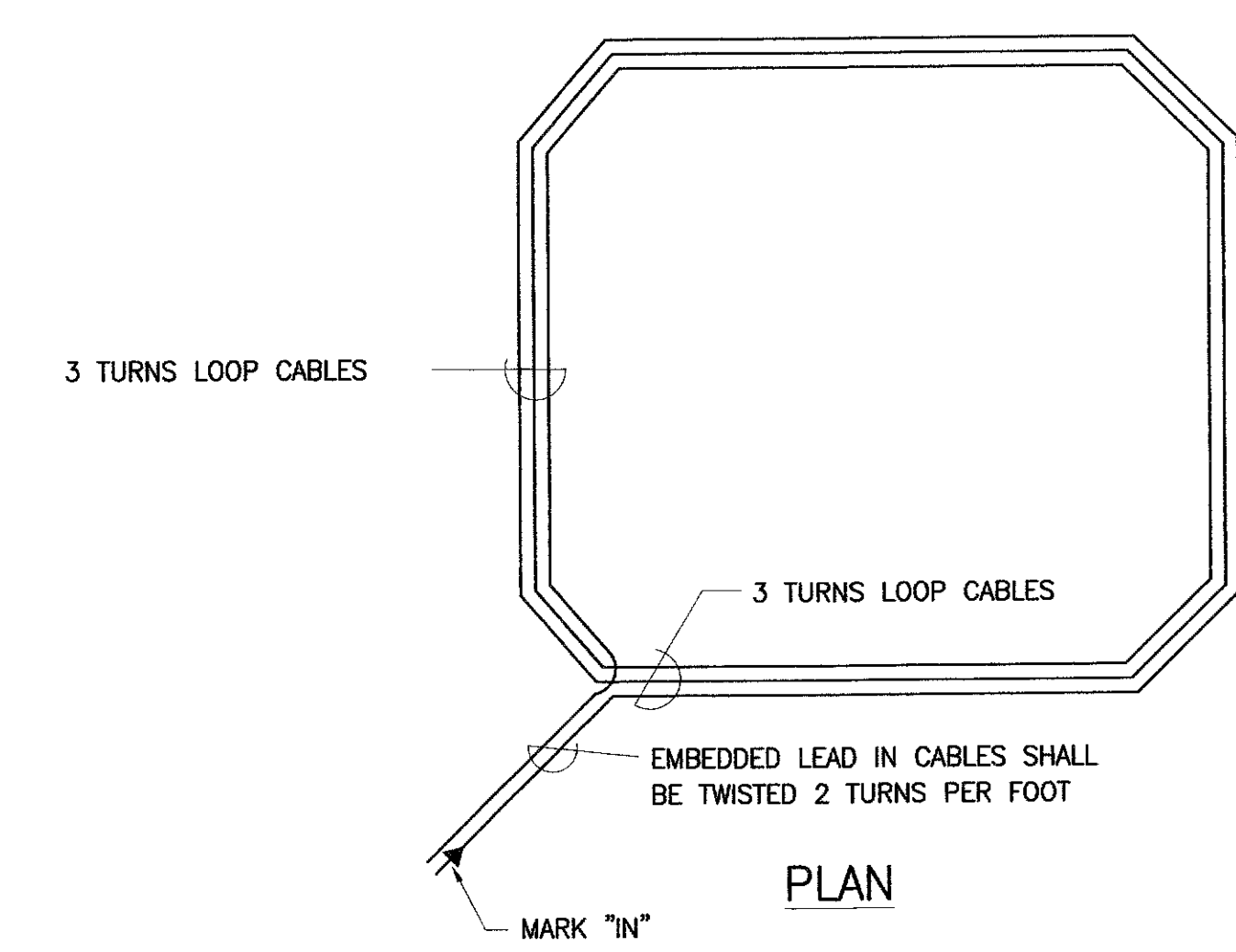
1. CENTER SENSOR LOOPS IN LANES.
2. COLLECTOR CABLES SHALL BE TWISTED 2 TURNS PER FOOT.
3. NUMBER OF LOOPS AND LOCATIONS VARY. SEE PROJECT PLANS.
4. NUMBER AND LOCATIONS OF COLLECTOR SAWCUTS MAY BE VARIED IN THE FIELD TO SUIT.

**TYPICAL SENSOR LOOP LAYOUT**  
NOT TO SCALE

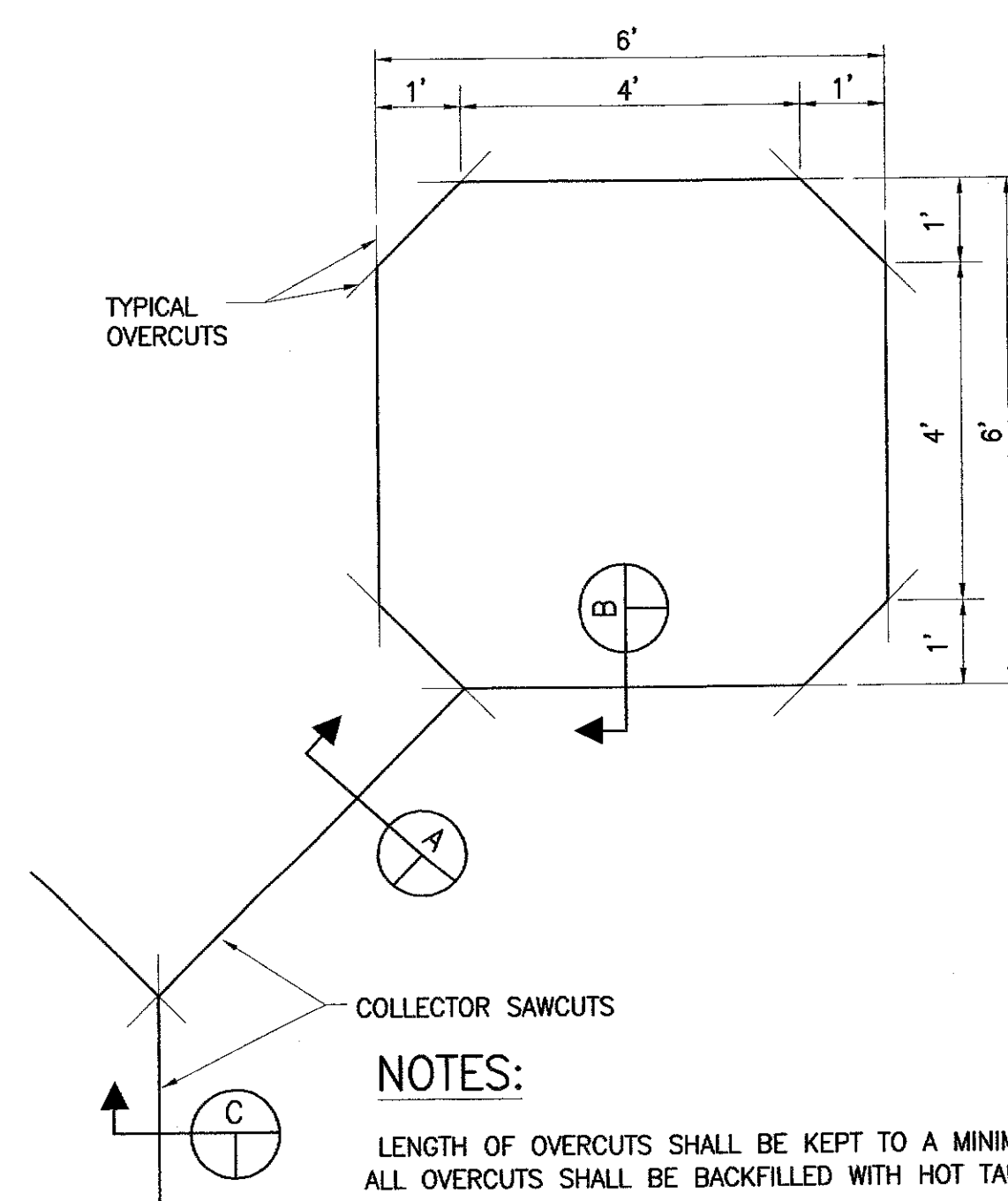
THE COLOR SCHEME SHALL BE:  
WHITE - MAN, ARROW AND PUSH BUTTON  
BLACK - BACKGROUND  
NOTE: ON PLAN SHEET, USE APPLICABLE DETAIL.



**PEDESTRIAN PUSH BUTTON DETAILS**  
NOT TO SCALE



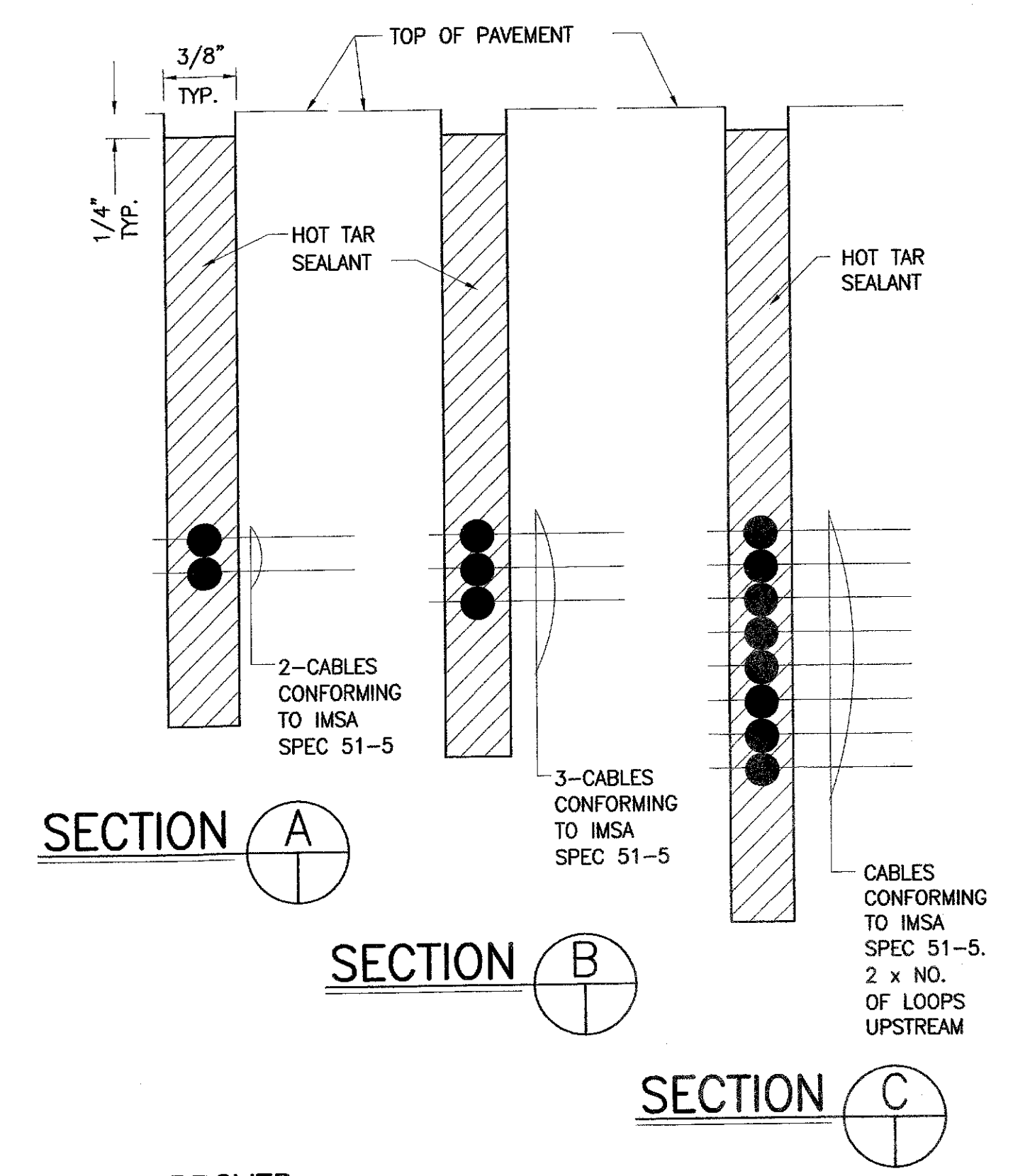
**TYPICAL SENSOR LOOP WIRING DIAGRAM**  
NOT TO SCALE



**NOTES:**

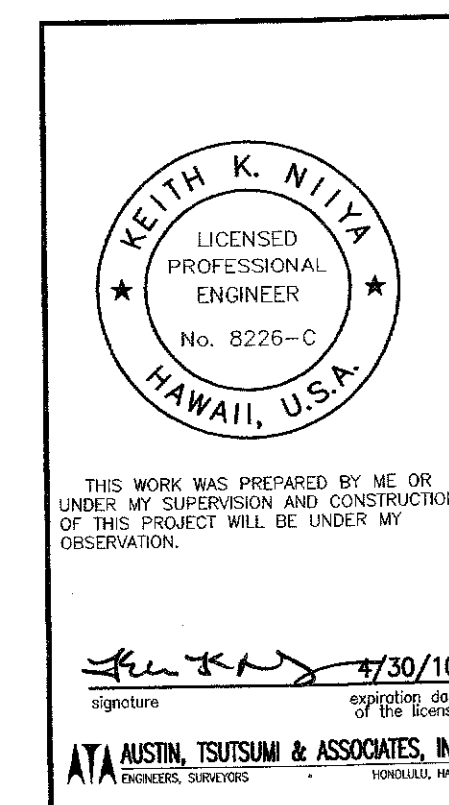
1. LENGTH OF OVERCUTS SHALL BE KEPT TO A MINIMUM.
2. ALL OVERCUTS SHALL BE BACKFILLED WITH HOT TAR.

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



**APPROVED:**

CHIEF, TRAFFIC SIGNALS AND TECHNOLOGY DIVISION  
DEPARTMENT OF TRANSPORTATION SERVICES  
CITY AND COUNTY OF HONOLULU



REVISION	DATE	DESCRIPTION	ENGINEER	APPROVED

**DEPARTMENT OF TRANSPORTATION SERVICES**  
CITY & COUNTY OF HONOLULU

TRAFFIC CONTROL SIGNALIZATION  
AT VARIOUS LOCATIONS ON OAHU, PHASE X  
FEDERAL-AID NO. STP-0001(36)

**TRAFFIC SIGNAL DETAILS-4**

DESIGN	LHY	C-40 SHEET 40 OF 42 SHEETS
DRAWN	LHY	
CHECKED	KKN	
DATE	08/04/08	PROJECT NO.
FILE	DRAW	FOLDER
FILE	POCKET	FOLDER
FILE	POCKET	FOLDER