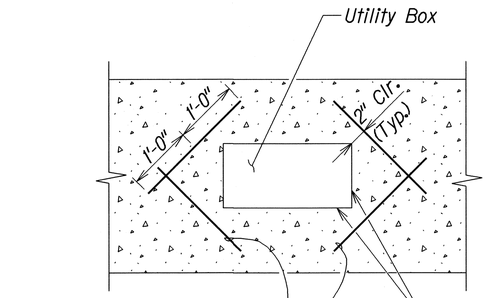
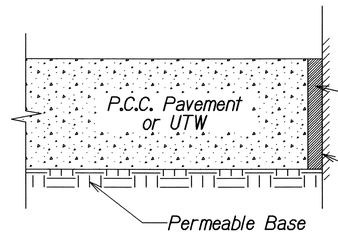
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	51B-01-08M	2008	13	33

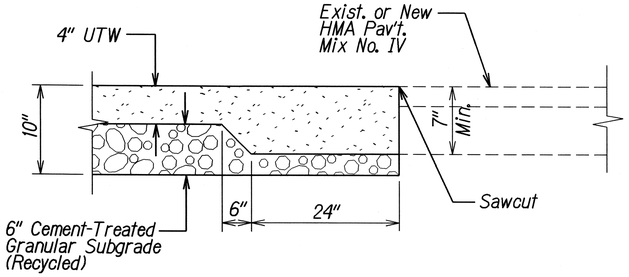


Note:
Payment for reinforcement will be considered incidental to various contract items.

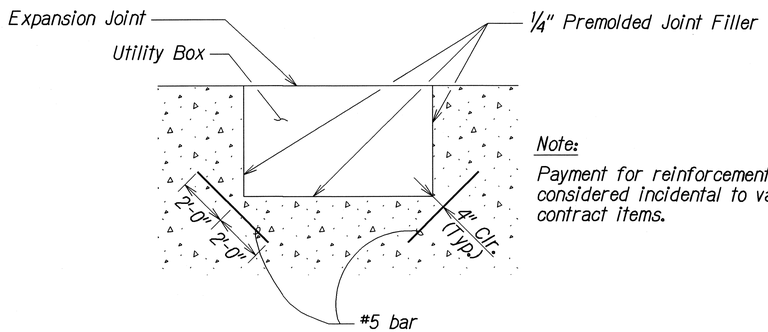
Typical Reinforcement Around Utility Box In P.C.C. Pavement & Sidewalk
Scale: Not to Scale



Isolation Joint Detail
Scale: Not to Scale

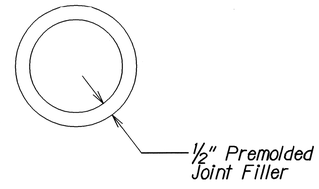


Thickened UTW Edge at A.C. Pavement Interface
Not to Scale

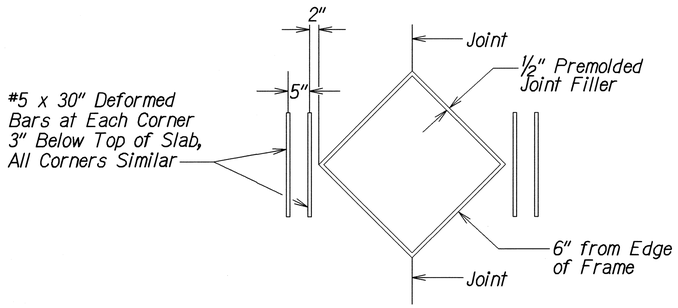


Note:
Payment for reinforcement will be considered incidental to various contract items.

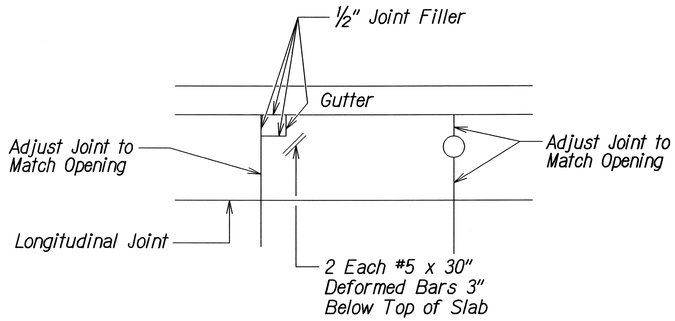
Typical Reinforcement Around Utility Box In P.C.C. Pavement & Sidewalk
Scale: Not to Scale



Circular Opening Detail for PCC & UTW
Scale: Not to Scale



Openings With Corners - Corners At A Joint Detail
Scale: Not to Scale



Openings Near Joints Detail
Scale: Not to Scale

Notes:

1. Install Isolation Joints to allow the slab to move independently of objects that will not move evenly with the slab to minimize stress in the slab.
2. Minimize the amount of openings within the slab to minimize the areas from which cracking can occur. Listed below are considerations that can minimize cracking from openings in the slab.
   a. Install reinforcing bars at the corners as shown below.
   b. Use circular openings.
   c. Install the openings along a joint.
3. Locate openings in the slab that require access in a manner that minimizes the number of travelway lanes that need to be shut down when accesing the openings.
4. Locate openings along joints and configured to minimize the amount of corners within the slab.
5. Avoid locating access openings along or near the longitudinal joints that seperate two travelway lanes.
6. For UTW areas with utility box openings, manhole frames and covers, etc., concrete shall have 7.5 lbs. of structural fiber mixed in it.
7. At the interface of A.C. pavement and Ultra-Thin Whitetopping (UTW), the UTW shall be thickened to a minimum of 7 inches or to the bottom of the existing A.C. pavement, whichever is the larger dimension. See detail above.
8. Where frame and cover for utilities and survey monuments are encountered in areas where UTW is to be used, backfill with CSLM from bottom of frame to bottom of UTW. CSLM's limit shall be to the premolded filler of the isolation joint.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 7/08
	DRAWN BY J.	
	TRACED BY J.	
NOTE BOOK	DESIGNED BY J.	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT DETAILS

KAPULE HIGHWAY RESURFACING
Rice Street to Ahukini Road
Project No. 51B-01-08M

Not to Scale Date: May 2008

SHEET No. 1 OF 1 SHEETS