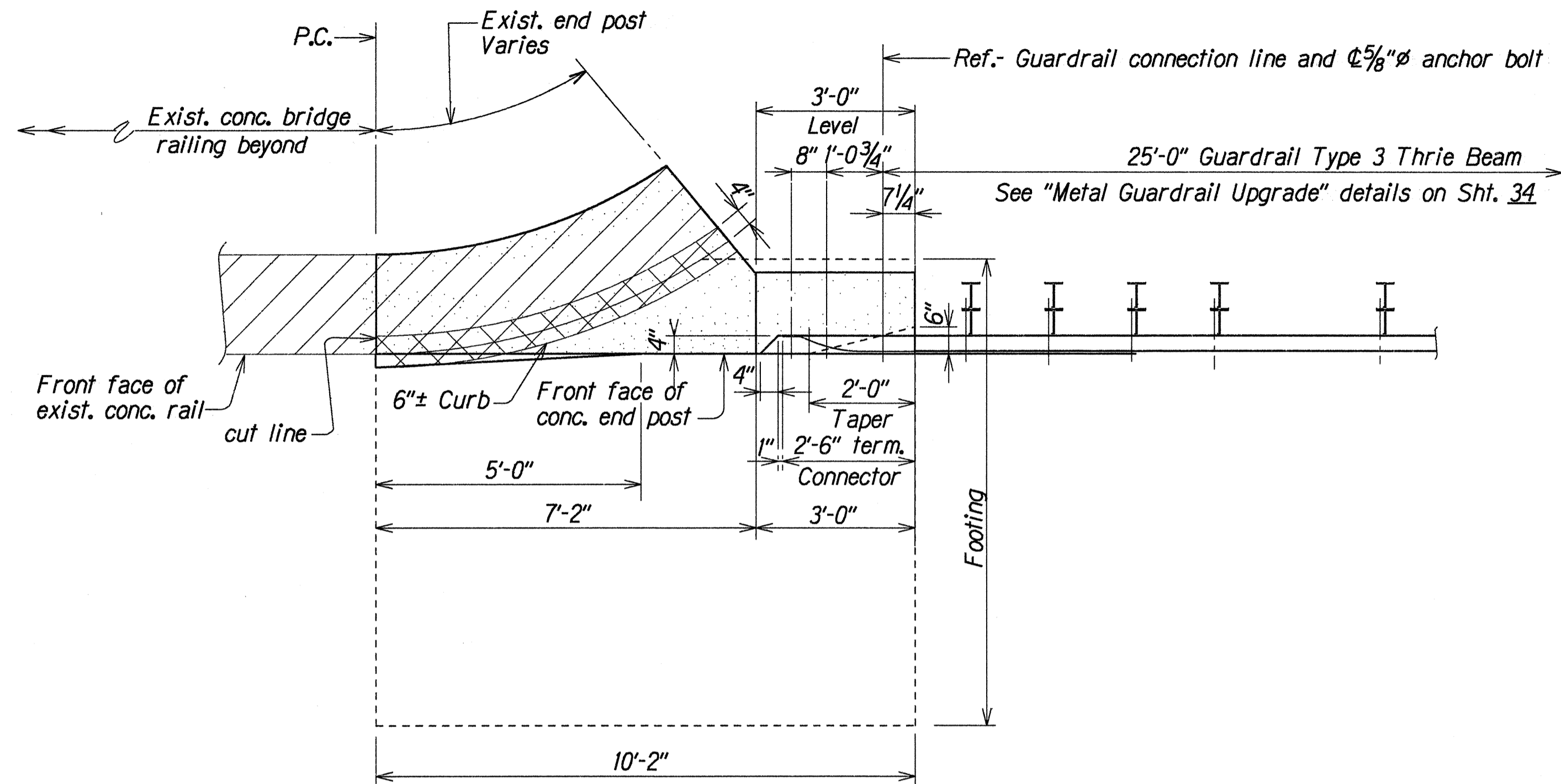


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11HKL-01-97M	1997	33	47

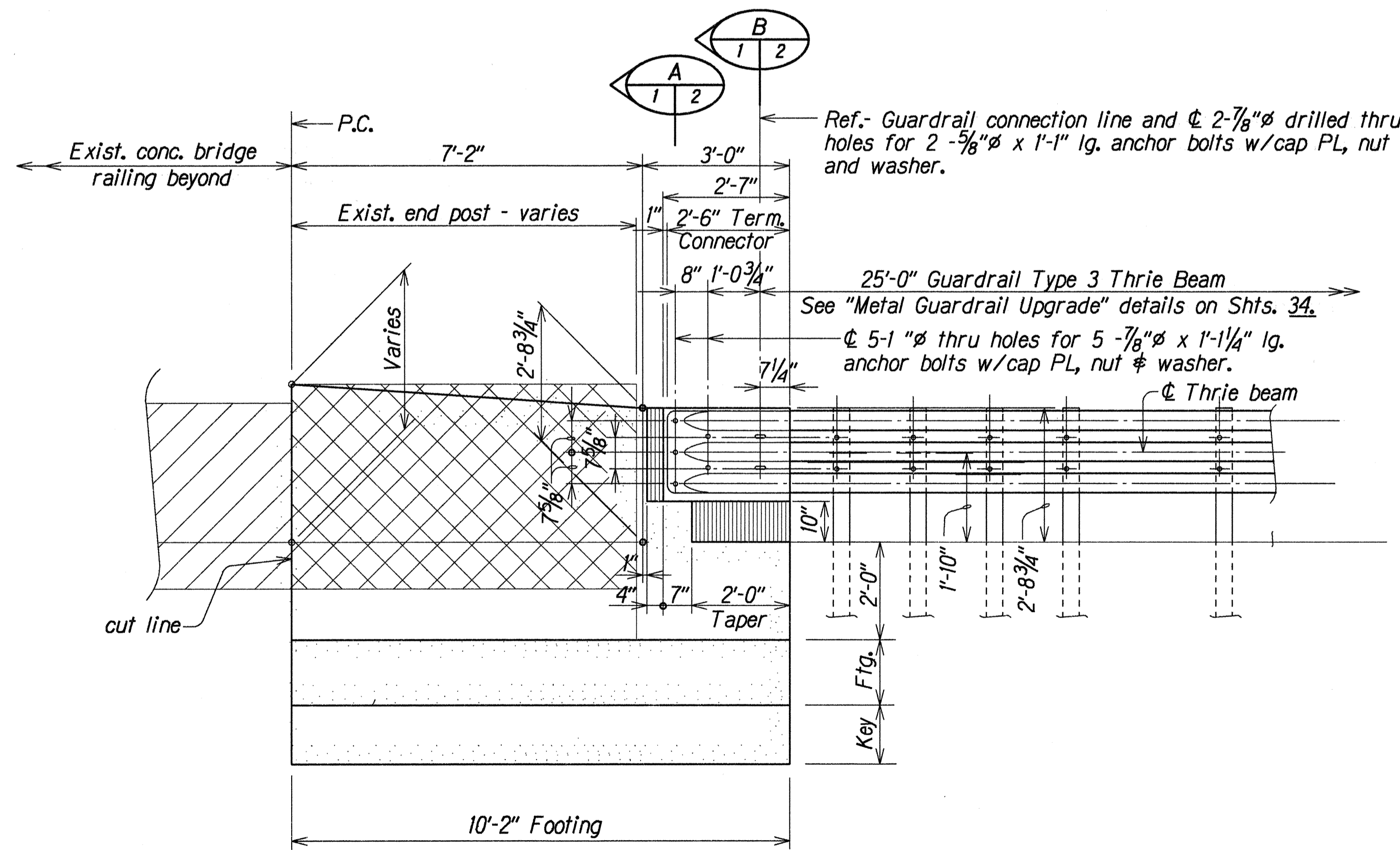


**PLAN - TYPE "A" UPGRADE OF BRIDGE END POST**

Not to Scale

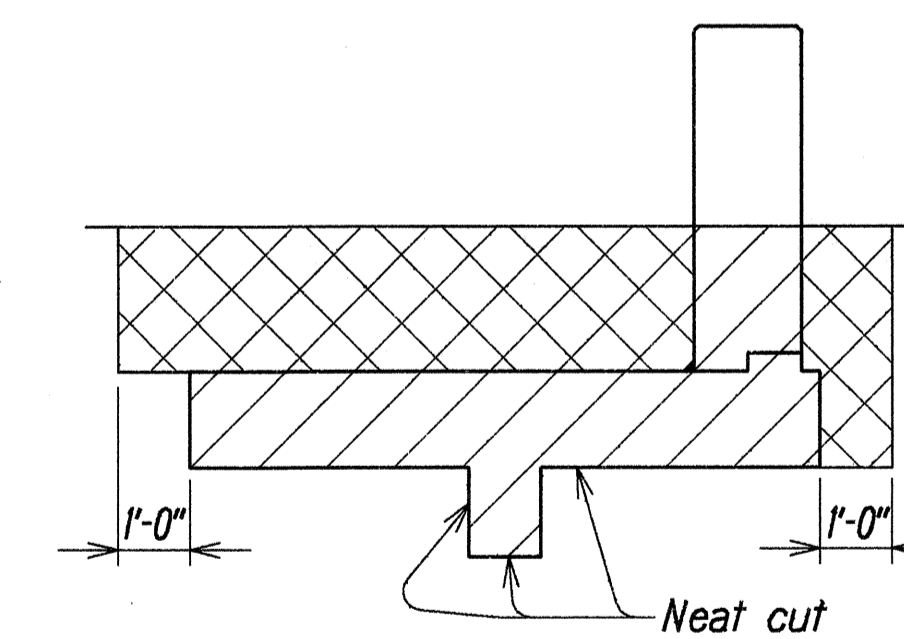
**NOTES**

1. For cast-in-place concrete, minimum reinforcement cover: concrete cast against earth: 3" walls: 2"
2. All existing reinforcing and anchor bolts that can be incorporated in the new work shall be bent or cut as required and cleaned before being utilized in the new work.
3. All existing reinforcing and anchor bolts that cannot be incorporated in the new work shall be completely removed or removed to a minimum depth of 1/2 inches below finish grade and the area patched with mortar.
4. All existing concrete face receiving new concrete in the finish product shall be roughened and cleaned prior to placement of new pour, unless indicated otherwise or as directed by the Engineer.
5. Existing structure shown by hatched lines. Limits of removal of existing structure shown by x-hatched lines. Saw-cut 1" deep along cut line of existing structure. Removal shall be done in such a manner as to preclude any damage to the existing structures. Large vibratory type of equipment will not be permitted in the removal operation, nor for drilling of holes. Only small vibratory hand tools approved by the Engineer will be allowed. Any damage to the existing structure due to the Contractor's operation or negligence shall be repaired at his expense with no additional cost to the State, and to the satisfaction of the Engineer.



**ELEVATION - TYPE "A" UPGRADE OF BRIDGE END POST**

Not to Scale



**TYPICAL STRUCTURE EXCAVATION AND BACKFILL**

Not to Scale

**NOTE:**

Structure excavation shown thus

Structure backfill shown thus

Structure backfill material shall conform to glassphalt base course. See Section 312 of Standard Specifications.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	XXX/1991
DRAWN BY	XXX/1991
DESIGNED BY	XXX/1991
CHECKED BY	XXX/1991
NOTE BOOK	
No. 118r.33	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**BRIDGE CONNECTIONS**  
**TYPE I - DETAILS & NOTES**  
HAWAII BELT ROAD  
VICINITY OF PAHALA  
PROJECT NO. 11HKL-01-97M

Scale: As Noted

Date: June 1997

SHEET No. 1 OF 2 SHEETS