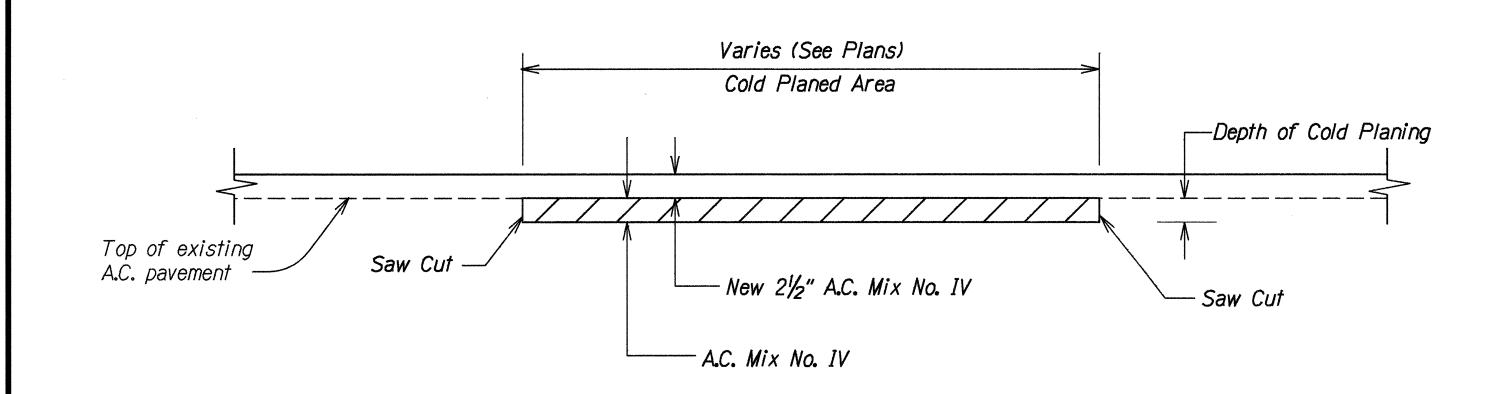
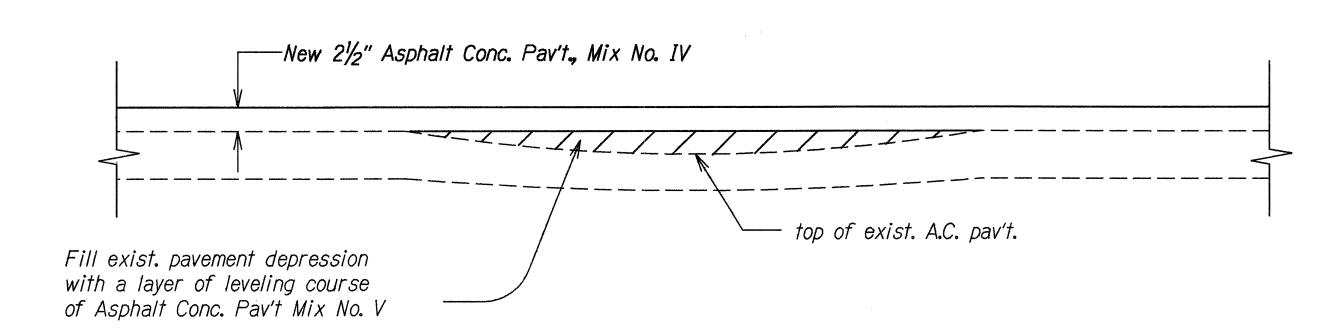


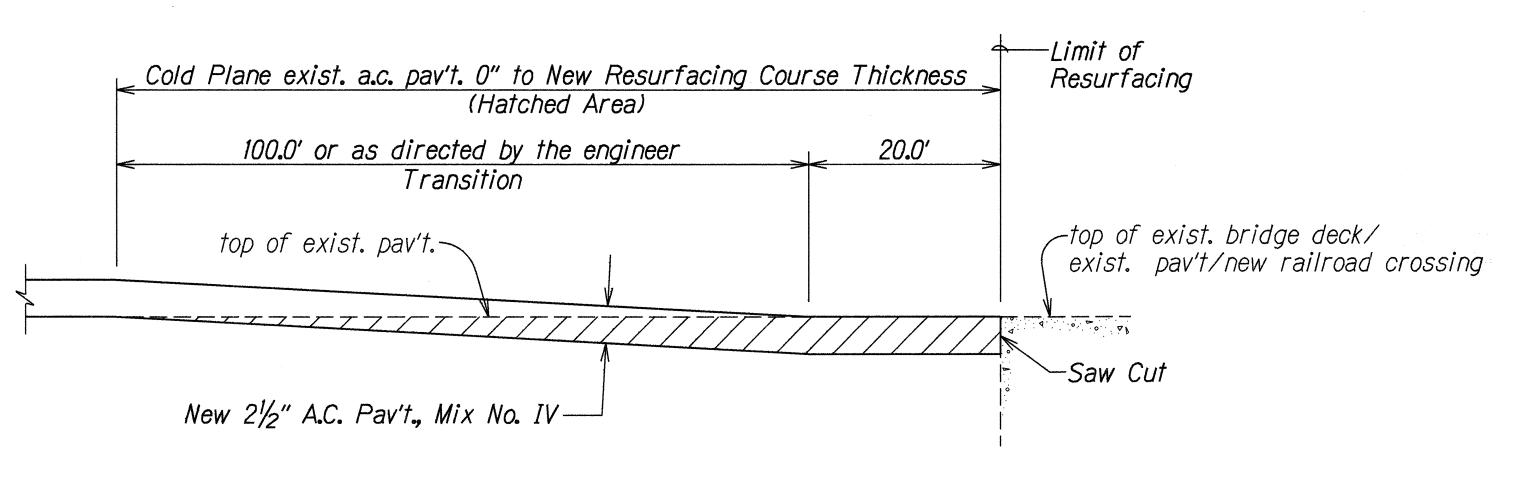
FED. AID PROJ. NO. FISCAL YEAR FED. ROAD DIST. NO. SHEET TOTAL NO. SHEETS STATE NH-093-1(19) 1999



TYPICAL COLD PLANED AREA Not To Scale



LEVELING COURSE DETAIL Not To Scale



COLD PLANED TRANSITION Not to Scale

Note: Cold planed transitions will be considered incidental to A.C. Mix IV.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

TYPICAL DETAILS

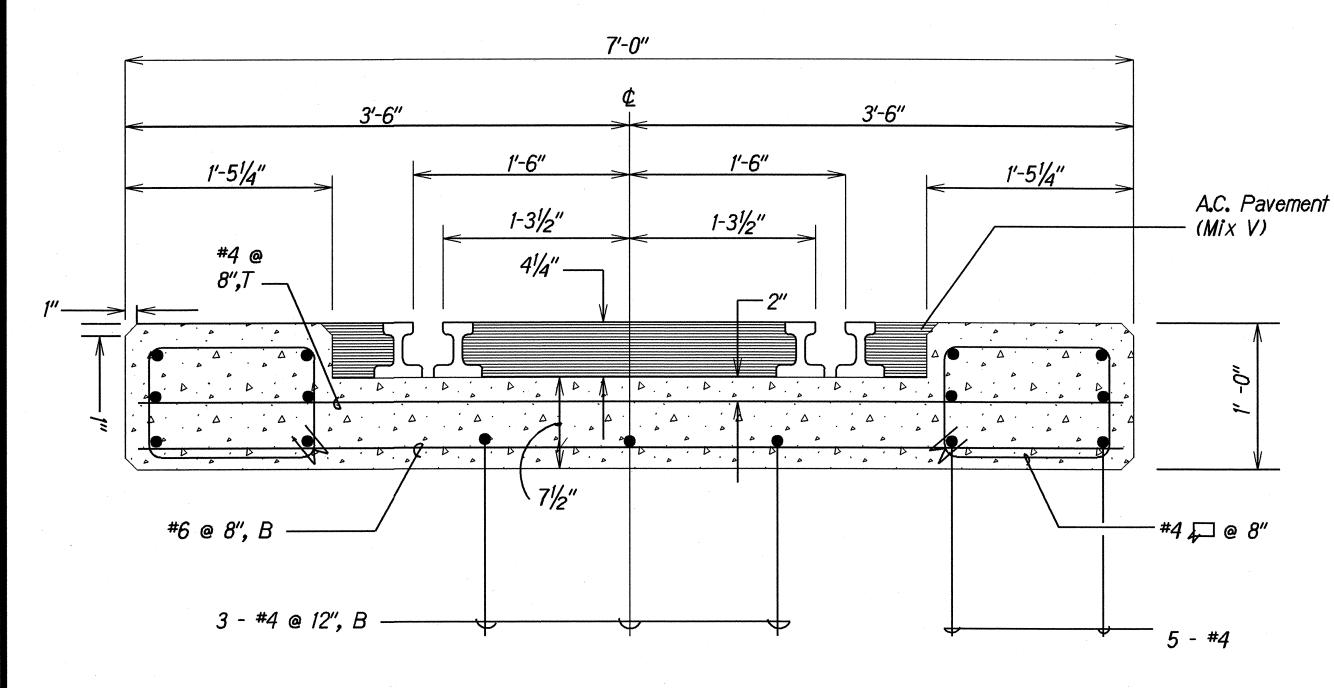
FARRINGTON HIGHWAY IMPROVEMENTS Vicinity of Tracks Beach Park Federal Aid Project No. NH-093-1(19)

Scale: As Shown

Date: May, 1999

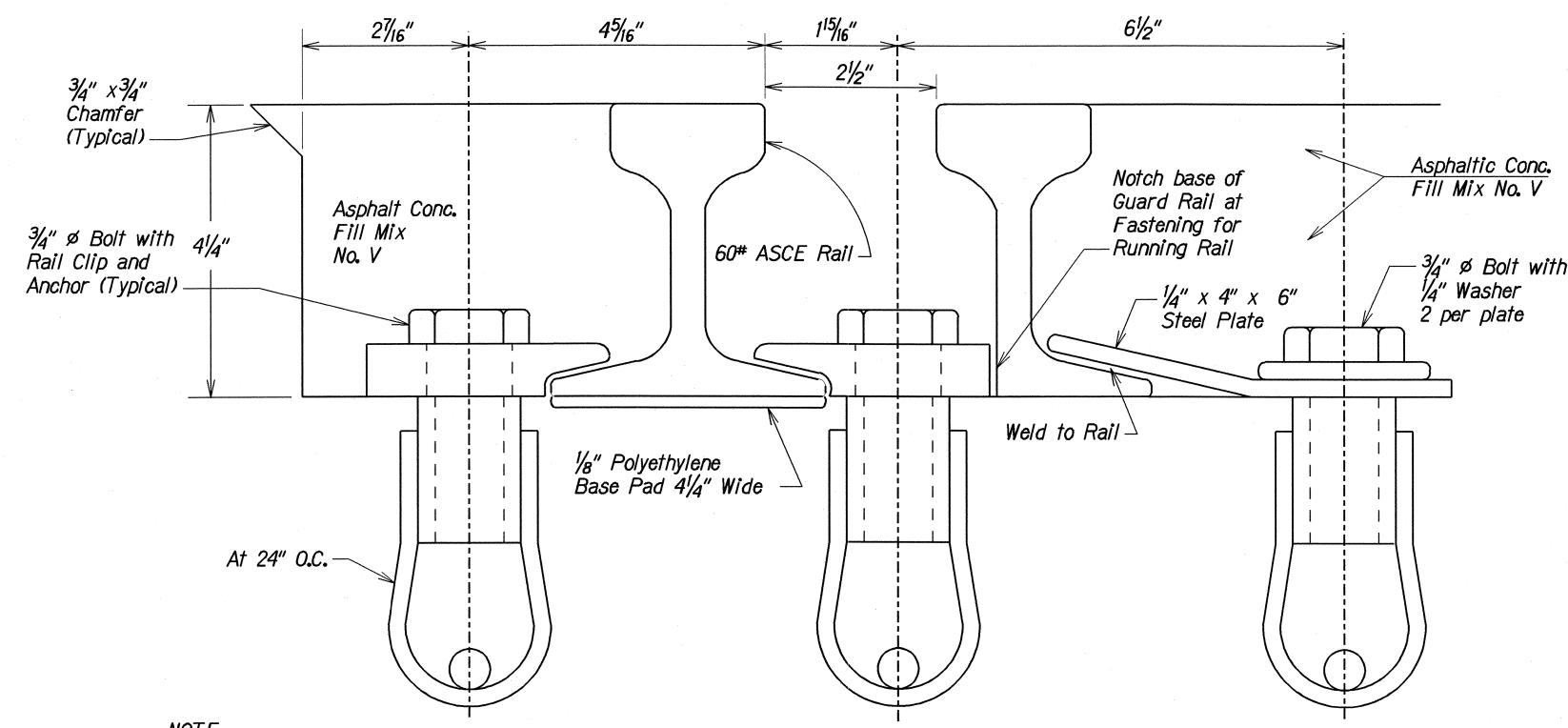
SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-093-1(19)	1999	9	49



NOTES:

- 1. All concrete shall be pre-cast. fc' = 5000 PSI.
- 2. Pre-cast sections shall have a length of 8'-0'.
- 3. All reinforcing steel shall be Grade 60.
- 4. All reinforcing clearances from concrete edges shall be 11/2", unless otherwise noted.
- 5. The existing rails shall be removed in a manner that minimizes damage and the rails may be reused. If new rail is needed, it will be provided by the Hawaiian Railway Society.
- 6. The Contractor shall coordinate their work with Ben Schlapak (838-8821) of the Hawaiian Railway Society.
- 7. Each pre-cast concrete railroad crossing unit will require the Contractor to replace up to 20 cross ties surrounding the unit. Cross ties shall be 6" x 8" x 6'0" "HEART" Douglas Fir. All cross ties shall be free from defects that may impair their strength or durability as cross ties such as decay, large splits, large or numerous holes or knots, and grain with slant greater than 1-in-15. Any existing spike holes must be plugged with cedar or redwood plugs. Centerline spacing of these cross ties shall be 20" to 24"
- 8. The Contractor shall provide rail anchors every eight to ten ties, minimum.



Polyethylene base pads for rail shall conform to ASTM Designation D 1248, Type III, Class C, Grade 5 for high density polyethylene plastic with a durometer hardness of 60 to 65 D. The hardness shall be stable between plus 140 degrees F and minus 40 degrees F.

DETAIL AT RAIL CLIP

Not To Scale

SURVEY PLOTTED BY DRAWN BY G. Kawamoto TRACED BY DESIGNED BY L. Aburamen QUANTITIES BY CHECKED BY

PRE-CAST CONCRETE RAILROAD CROSSING UNIT DETAIL

Scale: 11/2"=1"

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting

HIGHWAYS DIVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

FARRINGTON HIGHWAY IMPROVEMENTS

Vicinity of Tracks Beach Park

Federal Aid Project No. NH-093-1(19)

Scale: As Shown

As Shown Date: May, 1999

SHEET No. 3 OF 3 SHEETS

"AS-BUILT"

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DD3-Highway Design Section