

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(7)	1984	2	39

1. The scope of work for this project consists of resurfacing with asphalt concrete; reconstructing weakened pavement areas; constructing paved shoulders; dressing of shoulders; installing new guard rails; reconstructing existing guard rails; cold planing; installing pavement markers and striping; adjusting manhole frames and covers; and adjusting C&C monuments.

2. The existence and location of underground utilities, manholes, C&C survey monuments, centerline monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. Furthermore, the encountering of other obstacles during the course of work may be possible. The Contractor shall be responsible and shall pay for all damages to existing facilities resulting from his operations.

3. The Contractor shall submit a written intention to close a lane or any other channelization of traffic ten (10) calendar days prior to the action. The submittal to the Engineer shall contain a brief description of what will be done and the time and days of closure.

4. The Contractor shall furnish and install informational signs of impending lane closure along the approaches to the affected area for three (3) working days prior to the closure.

5. The location and limits of the areas to be reconstructed as shown on the plans are approximate. The exact limits will be determined in the field by the Engineer. The depth of reconstruction shall be as indicated on Plan Sheet No. 5. The excavated areas shall be reconstructed with Plant Mix Asphalt Concrete Base Course or Recycled Plant Mix Asphalt Concrete Base Course prior to resurfacing.

6. Prior to resurfacing, a slurry seal coat or crack filler shall be applied to fractured areas. This work will not be paid for separately, but be considered incidental to Asphalt Concrete Pavement, Mix No. I.

7. The entire roadway including side roads, driveways and shoulders, within the project limits shall be resurfaced with Asphalt Concrete Pavement, Mix No. I as indicated on the plans unless otherwise directed by the Engineer.

8. The Contractor shall notify the State in writing, two (2) weeks prior to starting paving operations.

9. The Contractor shall notify the Mass Transit Line, Inc. Customer and Public Relations Office at 537-9224 one (1) week before any paving operations.

10. All holes and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. I prior to resurfacing. This work will be paid for by Item No. 401.0500 Asphalt Concrete Pavement, Mix No. I.

11. Smooth riding connections shall be constructed at the beginning and at the end of the project and at all connecting approaches as shown on the plans and as directed by the Engineer.

12. If at the end of a work day the full travelway or total width of roadway is not paved, the Contractor shall pave the longitudinal pavement drop between lane passes of Paver with a 4:1 slope transition. Cold Mix Asphalt Concrete may be used for the 4:1 slope transition. Prior to resuming paving, the 4:1 slope transition shall be removed. The work for furnishing, paving and removing the Asphalt Concrete slope transition shall be considered incidental to Item No. 401.0500 Asphalt Concrete Pavement, Mix No. I and will not be paid for separately.

13. The Contractor shall remove and dispose all existing raised pavement markers in resurfacing areas prior to laying of Asphalt Concrete Overlay. This work shall be considered incidental to Item No. 401.0500 Asphalt Concrete Pavement, Mix No. I and will not be paid for separately.

14. Frames and covers of existing C&C street survey monuments shall be raised to new grade and the existing centerline monuments shall be preserved as shown on Plan Sheet Nos. 11 & 12.

15. Dressed shoulders shall consist of clearing, grubbing, grading and reshaping the unpaved shoulders as shown on the plans and/or as directed by the Engineer. The finish elevation of the unpaved shoulder at the guard rail shall be such that the required 1'-9" is maintained. This work shall be considered incidental to Item No. 401.0500 Asphalt Concrete Pavement, Mix No. I and will not be paid for separately.

16. Prior to resurfacing over bridges, the existing asphalt concrete pavement shall be removed by cold planing. For details, see Plan Sht. No. 5.

17. Existing Asphalt Concrete Pavement removed by cold planing and excavated weakened pavement areas may be used for "Recycled Plant Mix Asphalt Concrete Base Course" or otherwise shall be the Contractor's property.

18. The Contractor shall furnish all materials, equipment, tools and labor required to connect newly installed (new or reconstructed) metal guard rails to existing guard rails to remain. This work will not be paid for separately but shall be considered incidental to New Metal Guard Rails, Type 3, Single with Steel Post and Spacer Block and Reconstructed Guard Rails, respectively.

19. The Contractor shall furnish all materials, equipment, tools and labor required to remove the existing A.C. Curb. This work will not be paid for separately but shall be considered incidental to Bituminous Curb, Type G.

20. The Contractor shall construct the new bituminous curbs in the same location as the existing curbs. The maximum length of curb without an opening shall be 50 L.F. The opening shall be one L.F. with a 4:1 ramp down on each end.
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|-------------------|------|
| DATE | ____ |
| SURVEY PLOTTED BY | ____ |
| DESIGNED BY | ____ |
| NOTED BY | ____ |
| CHECKED BY | ____ |
| ORIGINAL PLAN | ____ |
| NOTE BOOK | ____ |
| NO. | ____ |
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|--------|---|
| 6/1/84 | Added General Note No. 20 per Addendum No. 1. |
| DATE | REVISION |
- | |
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| STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION |
| GENERAL NOTES |
| FARRINGTON HWY. RESURFACING
VIC. OF ULEHAWA STR. BR. TON. PILIOKOE BR.
FA PROJ. NO. F-093-1(7)
Date: Feb., 1984 |
| SHEET No. 1 OF 4 SHEETS |
- ADD. 2 R

UTILITY GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(7)	1984	3	39

WATER NOTES

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the Standard Specifications for Road and Bridge Construction, dated 1976, as amended, of the Hawaii Highways Division, Department of Transportation.
2. The BWS Standard Details, Figures 1-62 inclusive, bound in the "Water System Standards" of the BWS, dated March 1977, as amended, are applicable to this project.
3. The Contractor shall notify the Board of Water Supply in writing one week prior to commencing work on the water system.
4. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and shall pay for all damages to existing utilities.
5. Any adjustments to the existing water system including manholes, meter boxes, and meters required during construction to meet requirements of BWS Standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board.
6. The Contractor shall verify the location of waterlines in the field prior to installation of new guardrails. If there is a conflict, the new guardrails will be installed at the locations designated by the Engineer.
7. Contact BWS Manana Corporation Yard, Francis Among, at 455-1333 upon commencing construction.
8. The Contractor shall adjust all valve boxes and manhole frames and covers that are in the areas to be paved. Prior to paving operations, BWS will mark all water manholes and valve boxes involved with this project. The Contractor shall be responsible for referencing and adjusting all BWS appurtenances. Referencing of BWS facilities shall be incidental to the various contract items. Any additional work required of BWS to locate and reference BWS facilities, subsequent to paving operations, will be at the Contractor's expense. BWS will bill Contractor for said additional work.

GAS NOTES

1. The Gasco, Inc. gas pipelines in the project area are plastic coated and cathodically protected. The Contractor shall be extremely careful when working near these gas pipelines.
2. Prior written clearance must be obtained from Gasco, Inc. at least five working days before starting excavation or installation of new guardrails near these gas lines.

Since gas line locations on field maps are approximate, the Contractor, after obtaining written clearance, shall call Gasco, Inc., a minimum of 48 hours before starting excavation or installation of new guardrails to arrange for field location of existing gas lines. The telephone number is 547-3575 during business hours, and 526-0066 after hours.

The Contractor shall excavate and back fill around gas pipelines in the presence of a Gasco, Inc. representative. All back fill within six inches of any gas pipeline shall be select cushion material approved by Gasco, Inc.

The Contractor shall verify the location of the gas pipe lines in the field prior to installation of new guardrails. If there is a conflict, the new guardrails will be installed at the locations designated by the Engineer.
3. For relocation of any gas pipeline, the Contractor shall notify Gasco, Inc. five working days before starting work. The Contractor shall provide the necessary excavation and backfill, arrange for traffic permits, and restore sidewalk, pavement, or other facilities. Any relocation of gas facilities shall be done by Gasco, Inc.
4. The Contractor shall notify Gasco, Inc. immediately after any damage has been caused to existing gas pipelines, their coatings or their cathodic protection devices. Repair work on this damage shall be done by Gasco, Inc. with payment of this work to be borne by the Contractor.
5. The Contractor shall work in an expeditious manner in order to keep uncovered gas pipelines exposed for as short a period of time as possible.

ELECTRIC NOTES

1. The existence and location of HECO's overhead and underground facilities as shown on the plans are from existing records of varying degrees of accuracy and are not guaranteed as shown, therefore, the Contractor is to exercise extreme caution when the excavation and construction crosses or is in close proximity of underground electrical facilities and maintain adequate clearance for his equipment while working close to and/or under the overhead facilities.
2. The Contractor is to comply with the directions of the State of Hawaii Occupational Safety and Health Law (DOSH).
3. The Contractor is to obtain a clearance to excavate from HECO Mapping and Record Division, 4th floor, 820 Ward Avenue two weeks prior to start of construction.
4. For verifying the location of underground duct lines and for assistance in providing proper support and protection of the underground duct lines, the Contractor is to contact HECO Underground Division at 548-7395 a minimum of 72 hours in advance.
5. For pole bracing instructions, should field conditions and/or construction procedures require that poles be braced to facilitate construction, the Contractor is to contact Mr. Walter Okudara, HECO District Construction Superintendent, at 455-7022 a minimum of 72 hours in advance.
6. Should it become necessary, any work required to relocate HECO facilities shall be done by HECO. The Contractor shall be responsible for all coordination.
7. The Contractor shall be liable for any damages to HECO's facilities.
8. The Contractor shall report any damages to HECO's facilities to the HECO Trouble Dispatcher at Phone No. 548-7920.

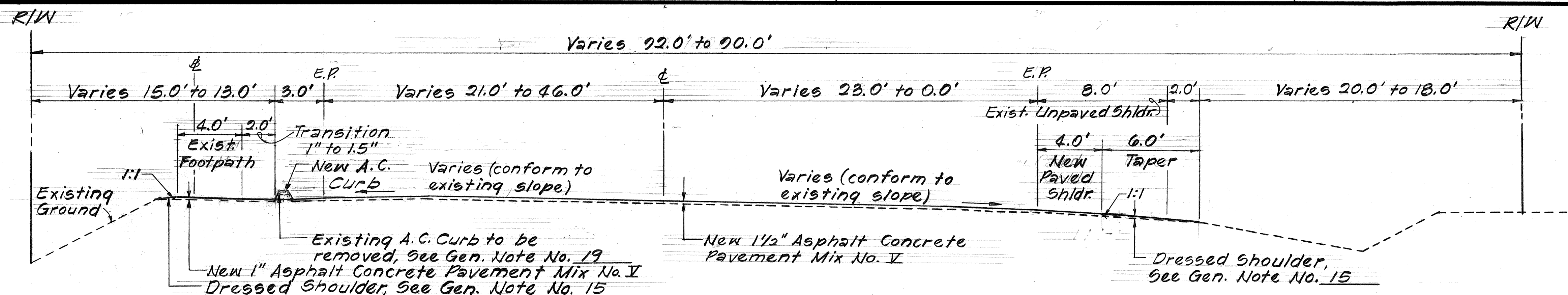
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

APPROVED:

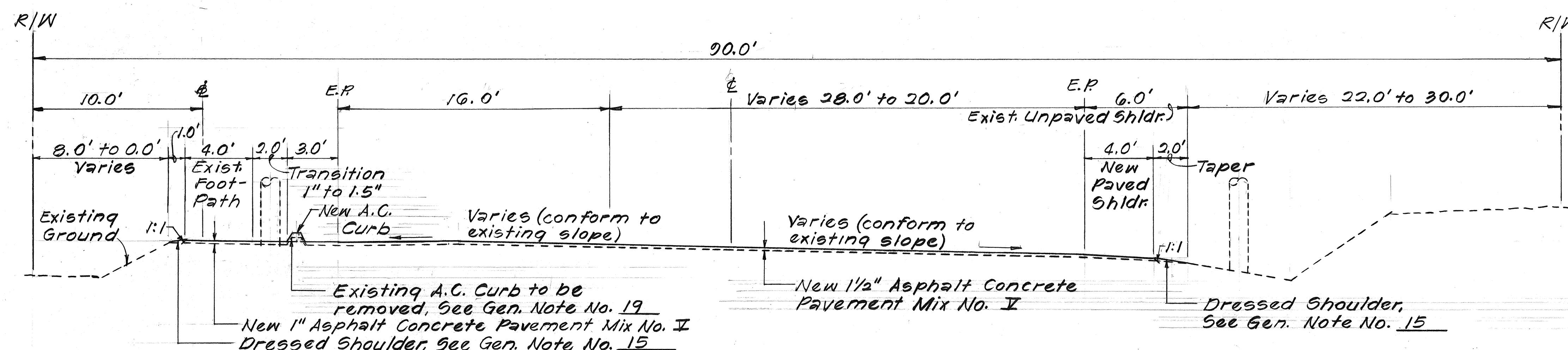
R. H. H. H.
CHIEF, PLANNING & ENGINEERING, BWS DATE 4-3-84

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
UTILITY GENERAL NOTES
FARRINGTON HWY. RESURFACING VIC. OF ULEHAWA STR. BR. TOW. PILILOKOE BR. F.A. PROJ. NO. F-093-1(7)
Date: Feb., 1984
SHEET No. 2 OF 4 SHEETS

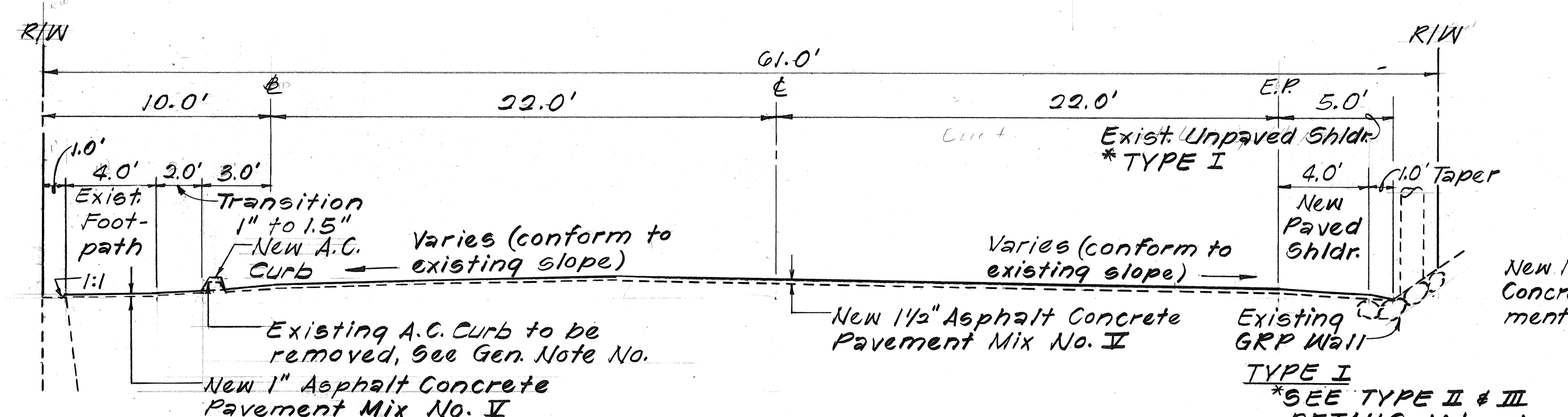
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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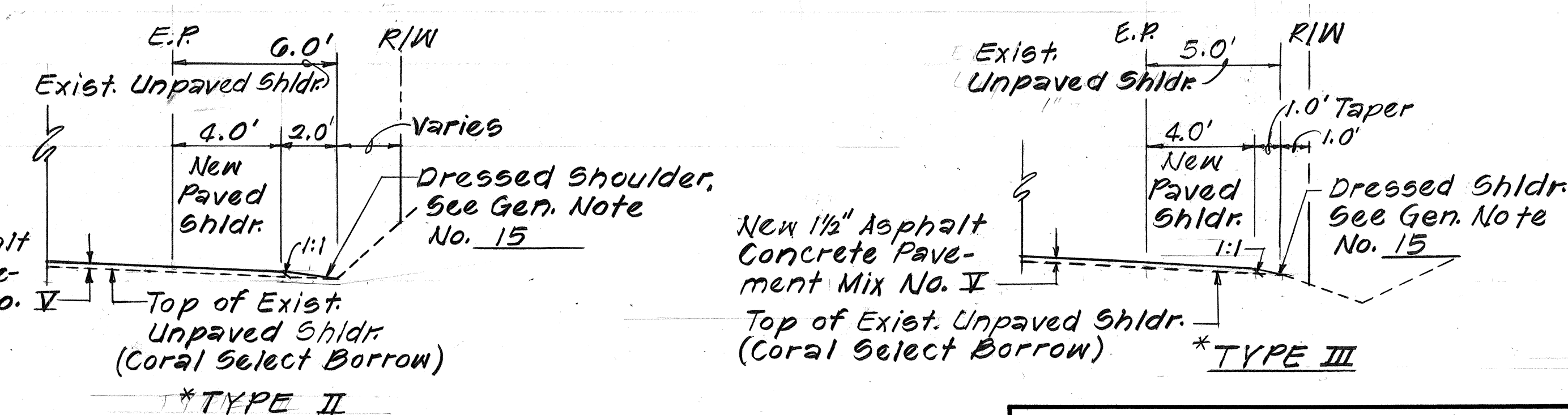
TYPICAL SECTION
 ± STA. 100+23.38 to ± STA. 110+97.52
 Scale: 1/4" = 1'-0"



TYPICAL SECTION
 ± STA. 110+97.52 to ± STA. 116+50
 Scale: 1/4" = 1'-0"



TYPICAL SECTION
 ± STA. 116+50 to ± STA. 216+69
 Scale: 1/4" = 1'-0"



* TYPE I (± Sta. 116+50 to ± Sta. 173+80.84)
 * TYPE II (± Sta. 213+74.00 to ± Sta. 216+69)
 * TYPE III (± Sta. 173+80.84 to ± Sta. 213+74.00)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

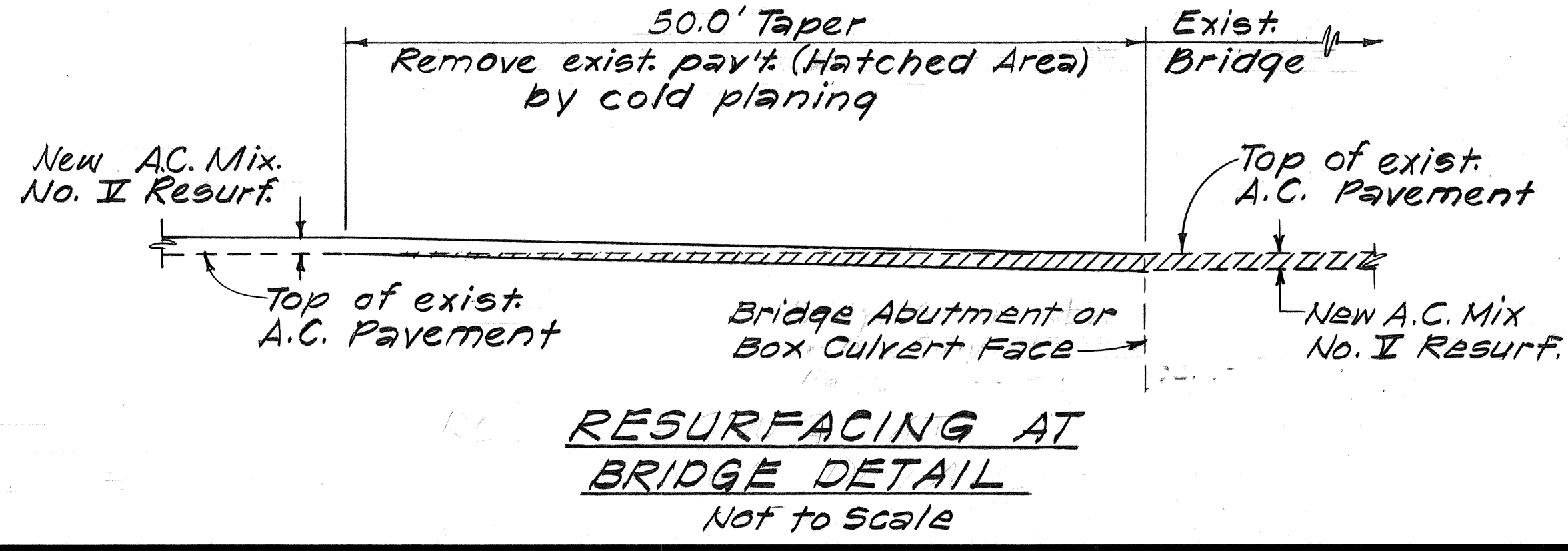
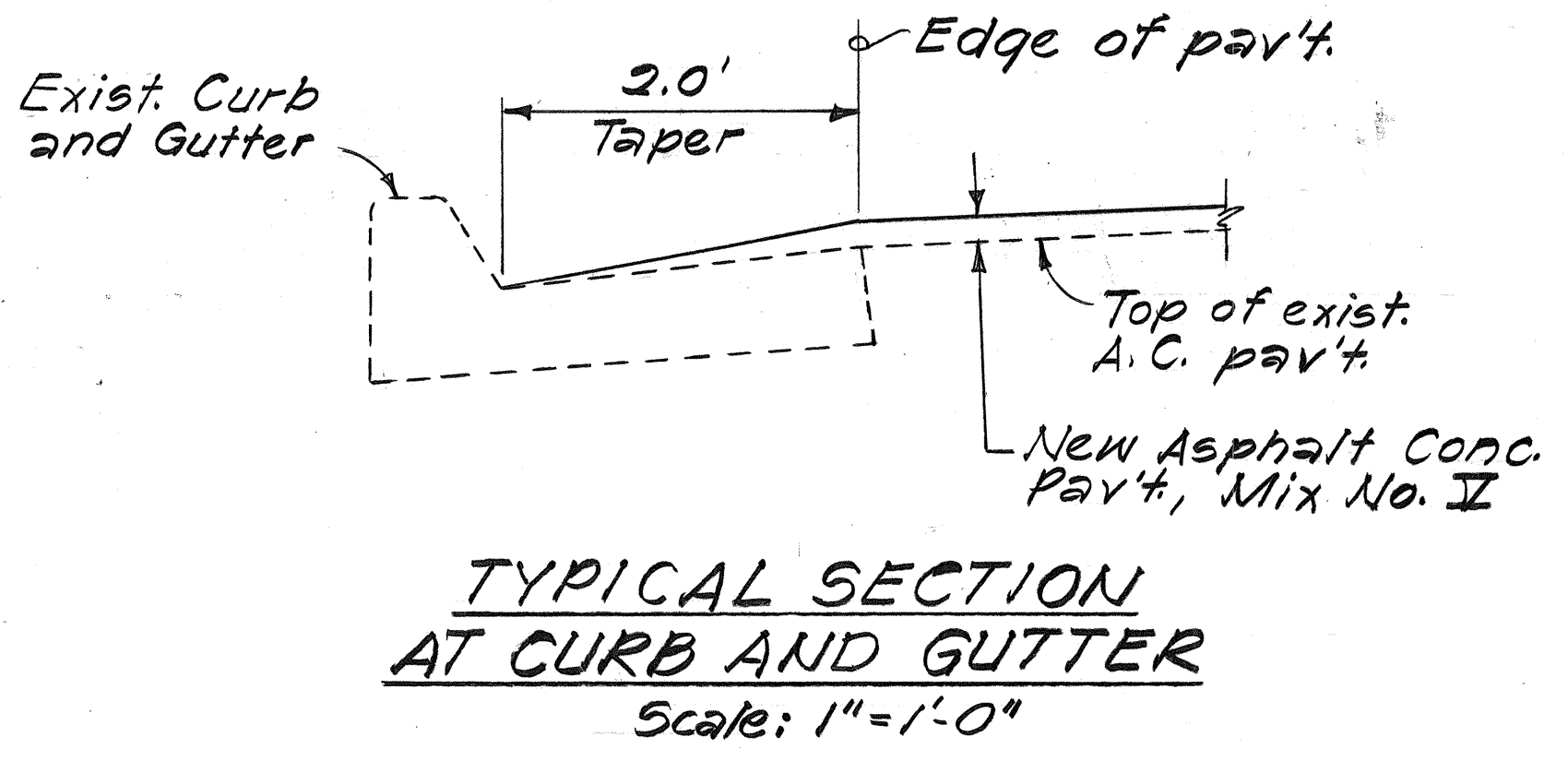
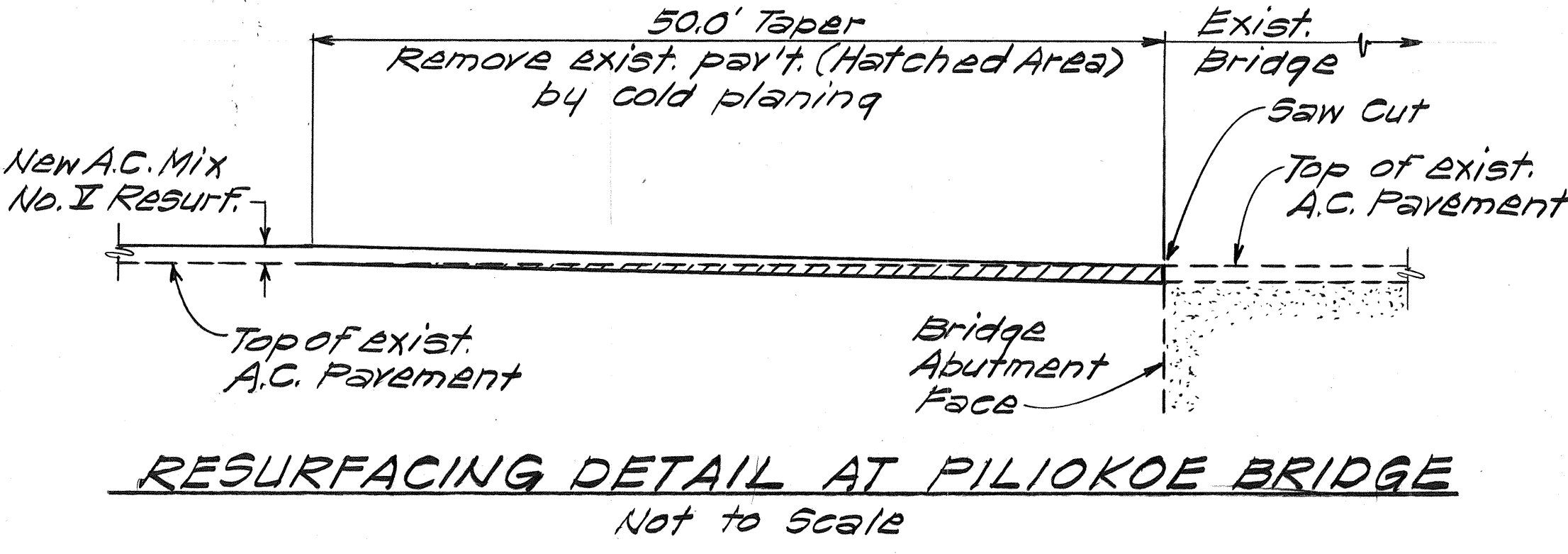
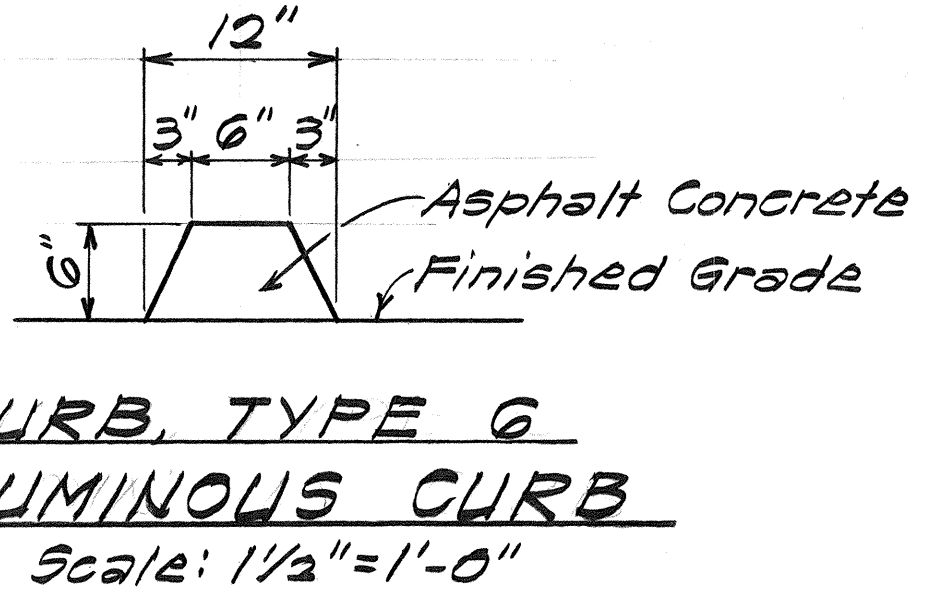
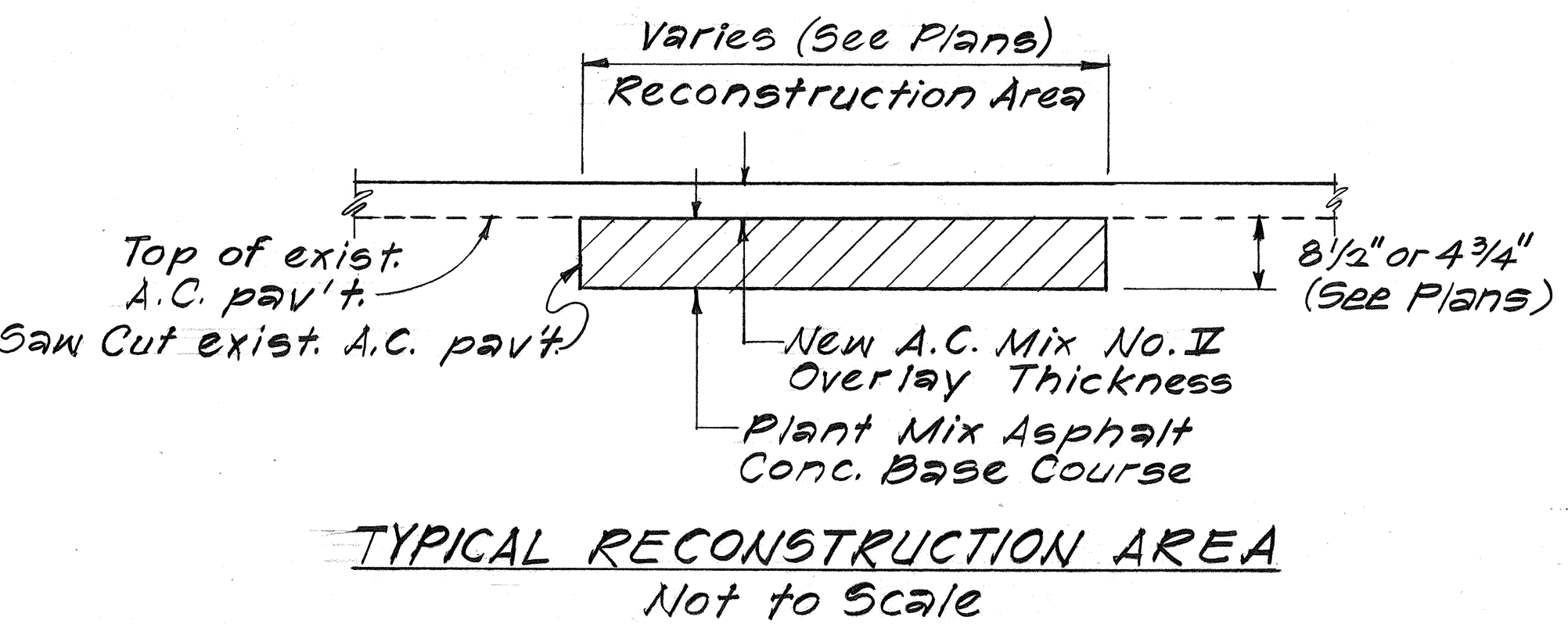
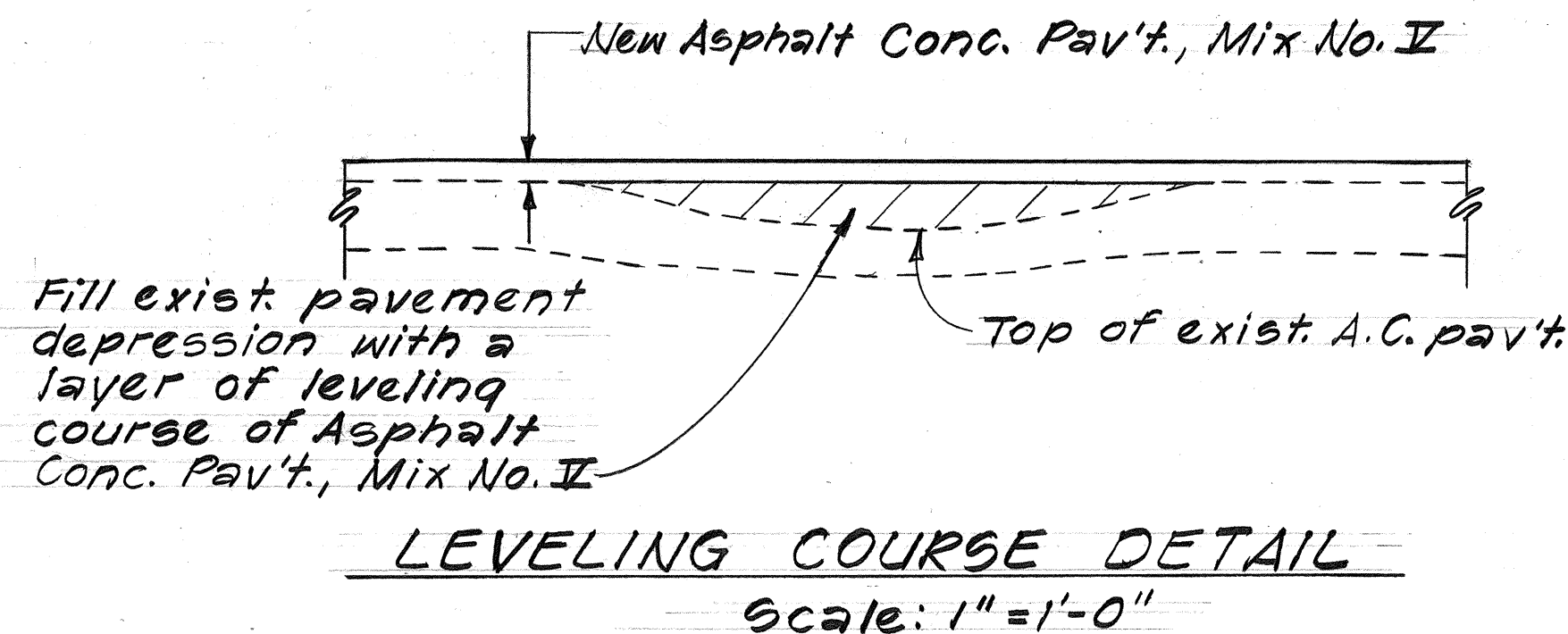
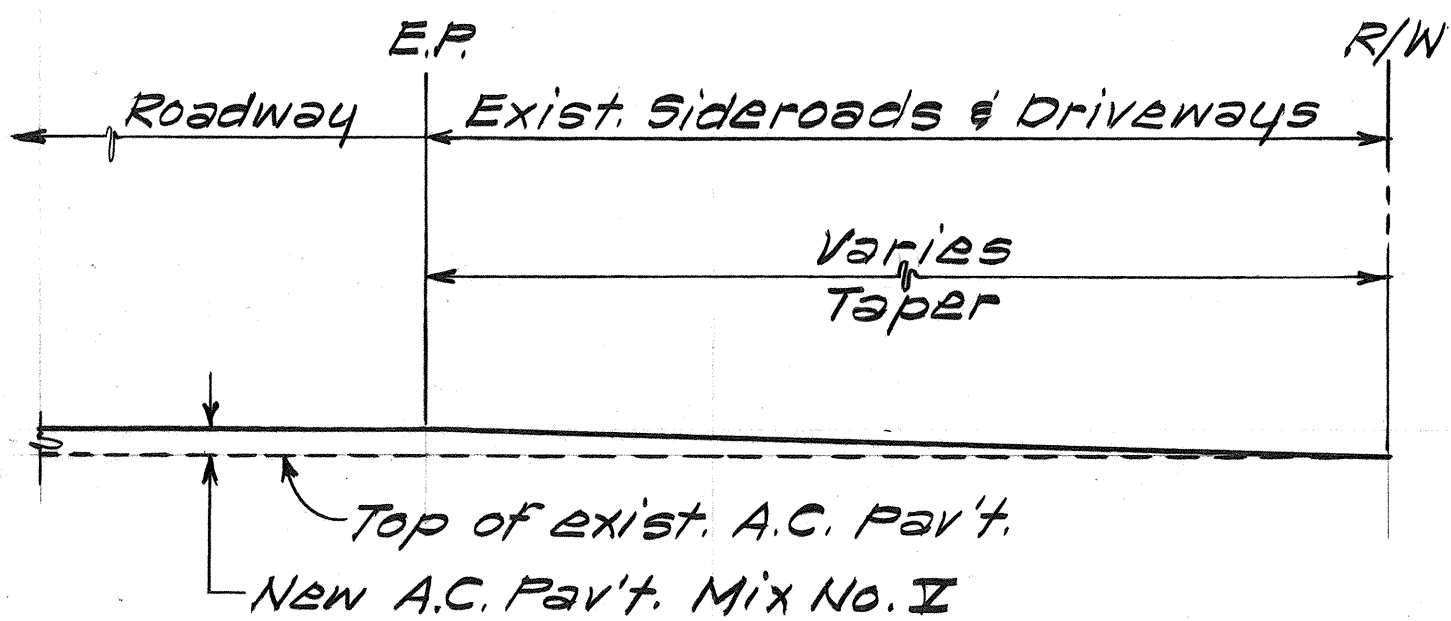
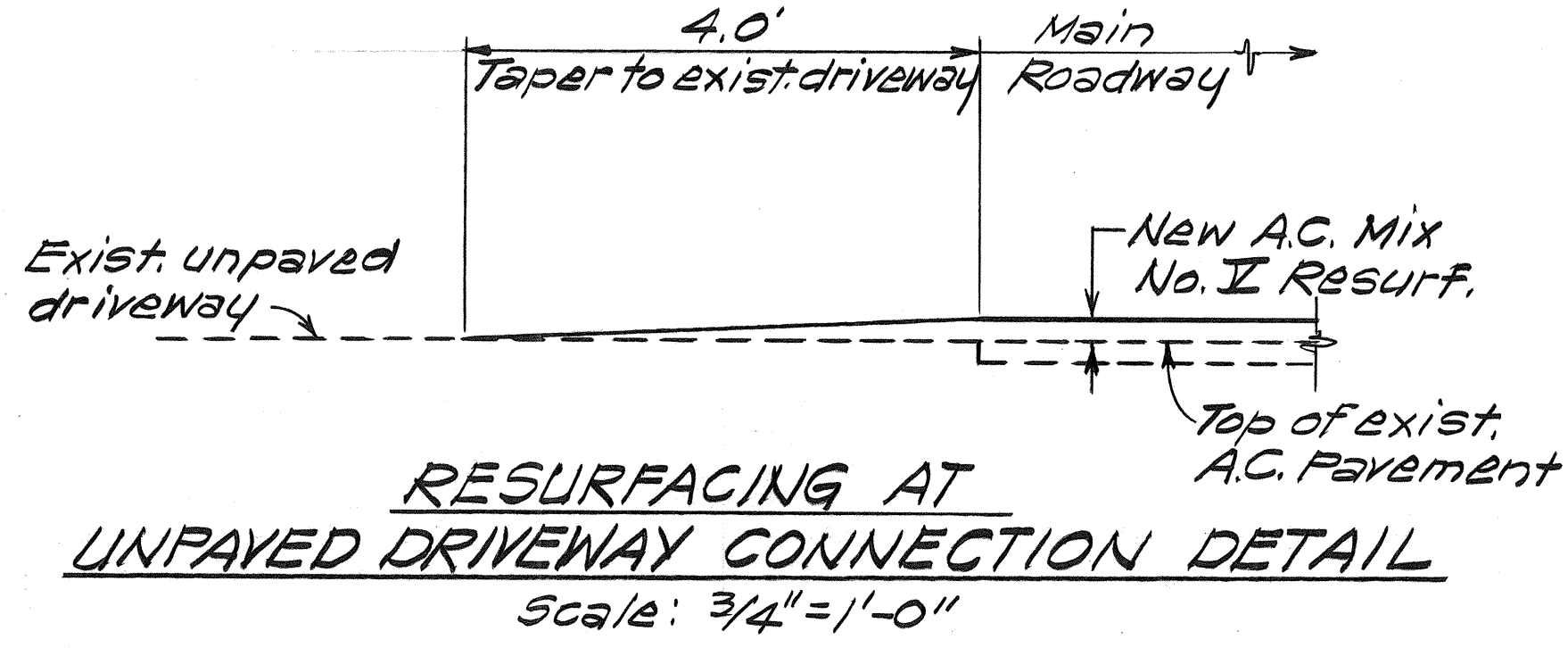
TYPICAL SECTIONS

FARRINGTON HWY. RESURFACING
 VIC. OF ULEHAWA STR. BR. TOW. PILIOKOE BR.
 F.A. PROJ. NO. F-093-1(7)

Scale: As Shown Date: Feb., 1984
 SHEET NO. 3 OF 4 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTE BOOK	_____
NO.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(7)	1984	5	39



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

FARRINGTON HWY. RESURFACING
VIC. OF ULEHAWA STR. BR. TOW. PILIOKOE BR.
F.A. PROJ. NO. F-093-1(7)
Scale: As Shown Date: Feb., 1984
SHEET No. 4 OF 4 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	