

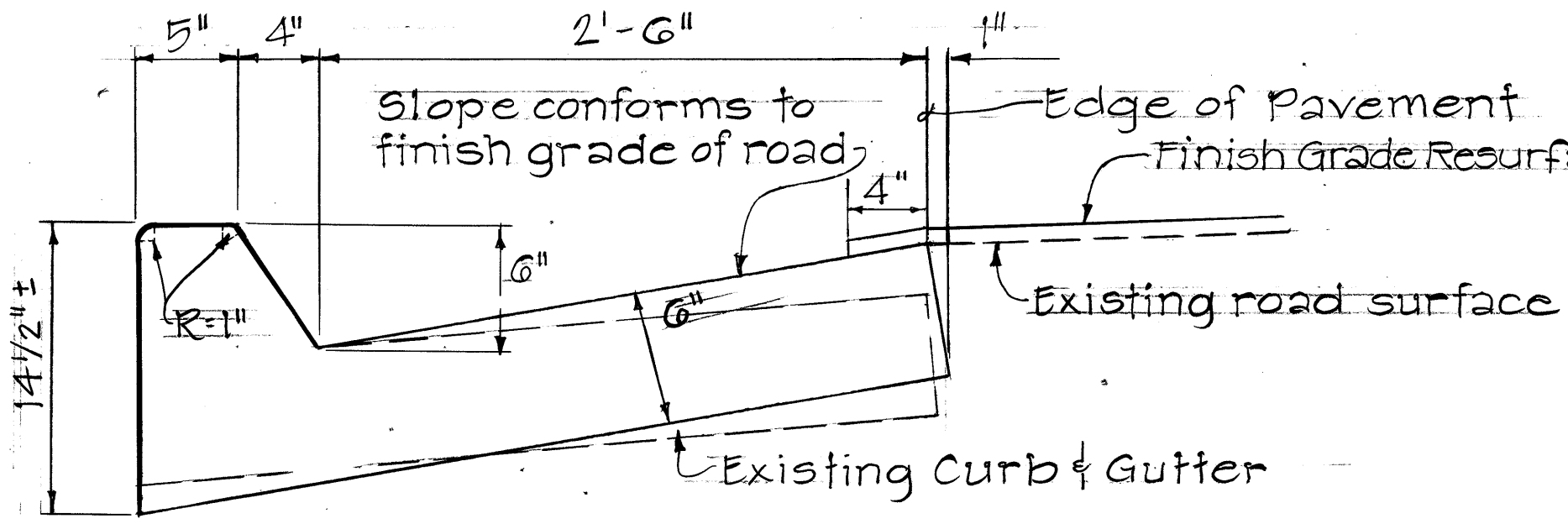
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	613D-01-82M	1982	13	31

DRAINAGE NOTES

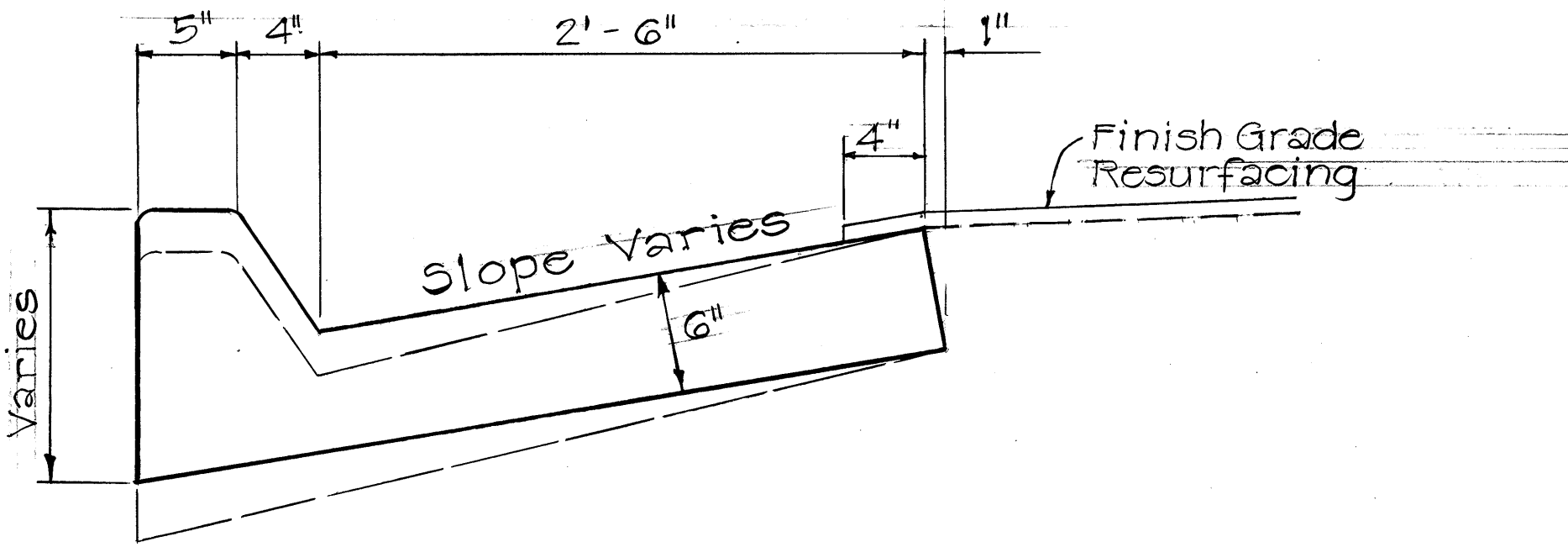
- Demolishing, removing and disposing a portion of the entire existing structure shall not be paid for separately, but shall be incidental to the various contract items in the proposal.
- Concrete shall be Type Class "A" for catch basin modification.
- Only non-pneumatic type of drill as approved by the Engineer will be permitted for drilling holes in concrete. Where indicated on plans, the approximate diameter of drilled holes for installation of dowels shall be 1 1/2" and voids after installing dowels shall be filled with grout as directed by the Engineer. The work (Drilling 1 1/2" holes and filling voids with grout) as mentioned above shall be considered incidental to the various contract items in the proposal.
- Where removing, adjusting and reinstalling guard rail and post are necessary for the reconstructed drainage structure, the reconstruction of guard rails shall be considered incidental to the various contract items in the proposal.
- In the event of plan alterations causing increase or decrease to the quantity of specified lump sum work the following estimated quantities shall be used to determine theoretical unit price as defined in subsection 104.02(B) lump sum items:

TYPE	STATION	LUMP SUM* ITEM NO.	206. 1001	503. 0011	602. 1001	
		UNIT USED	C.Y.	C.Y.	LBS.	
Catch Basin Top	160+95		9.3	4.5	480	
Catch Basin Top	168+11		9.3	3.3	350	
TOTAL			18.6	7.8	830	

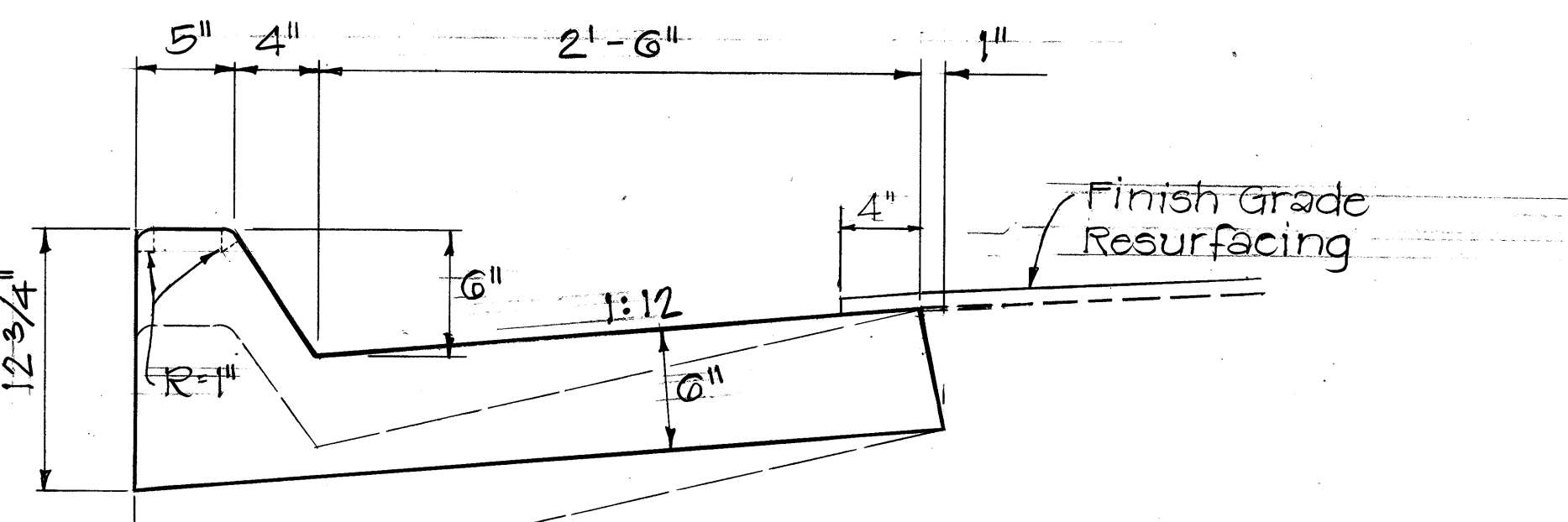
*Includes quantities for 15' Curb & Gutter Transitions.



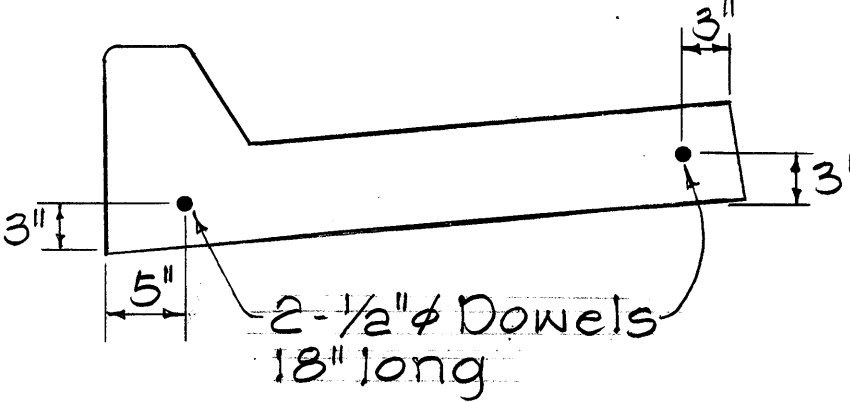
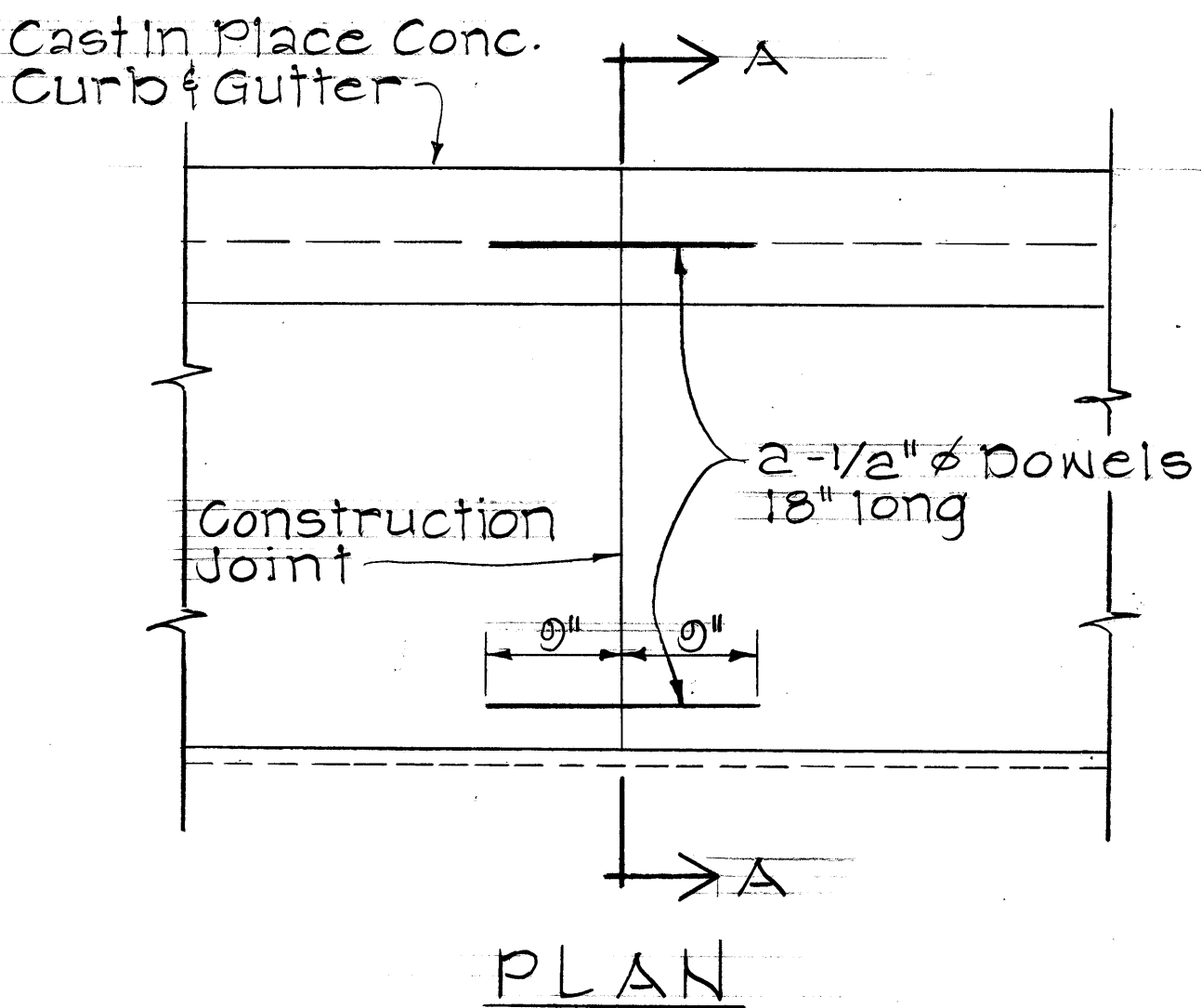
SECTION OF
TYPE AGM CURB & GUTTER AT
EXISTING CURB



SECTION OF
TYPE AGM CURB & GUTTER AT
MIDPOINT OF TRANSITION



SECTION OF
TYPE AGM CURB & GUTTER AT
CATCH BASIN GUTTER APRON
TYPE AGM CURB & GUTTER TRANSITION
Scale: 1 1/2" = 1'-0"



SECTION "A-A"
CONSTRUCTION JOINT DETAIL
Scale: 1" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
PALI HWY. RESURFACING
Reservoir No. 3 to Castle Junction
PROJ. NO. 613D-01-82M
Scale: As Noted Date: Nov. 1981
SHEET NO. 1 OF 5 SHEETS

DATE

DESIGNED BY

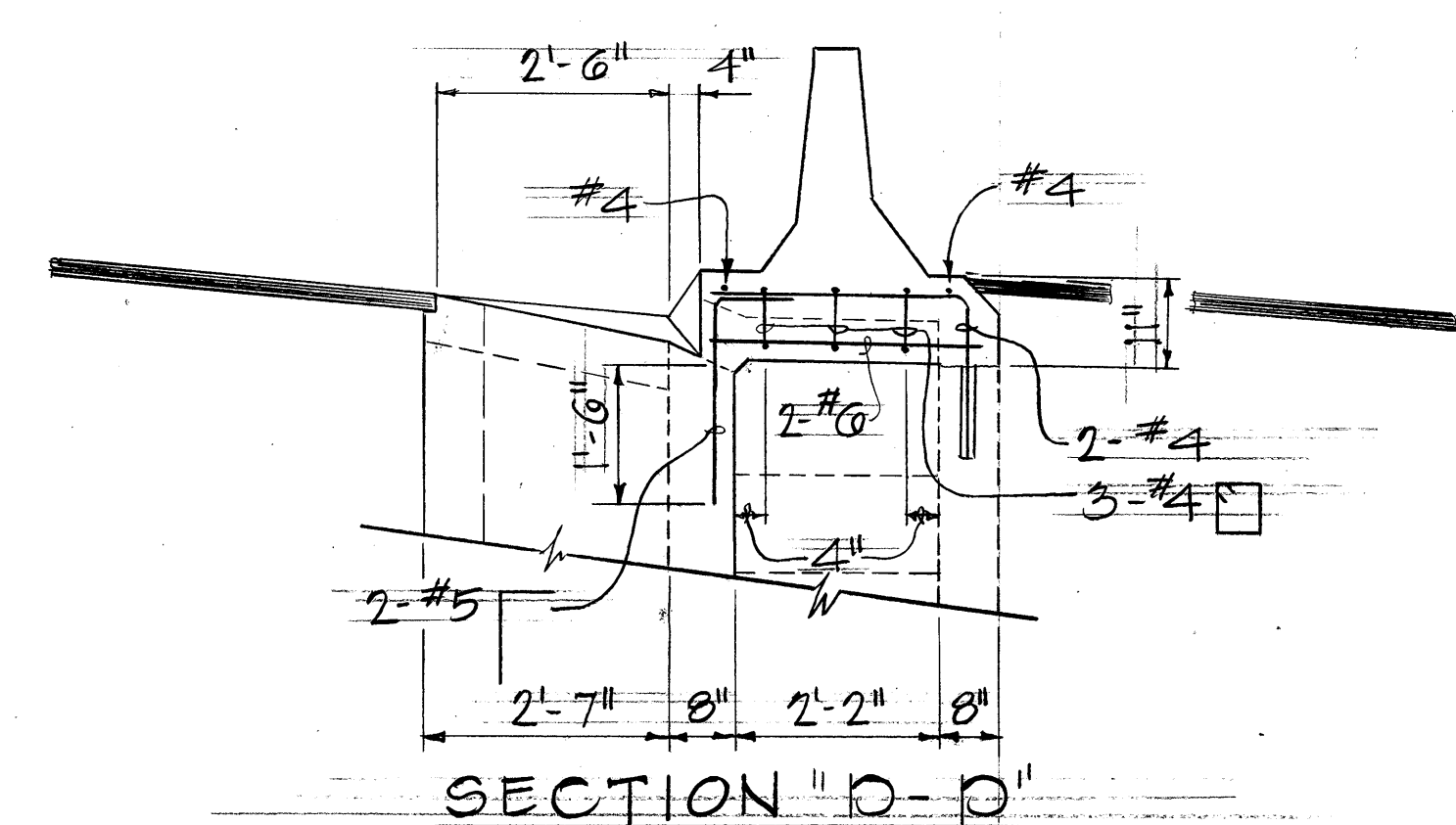
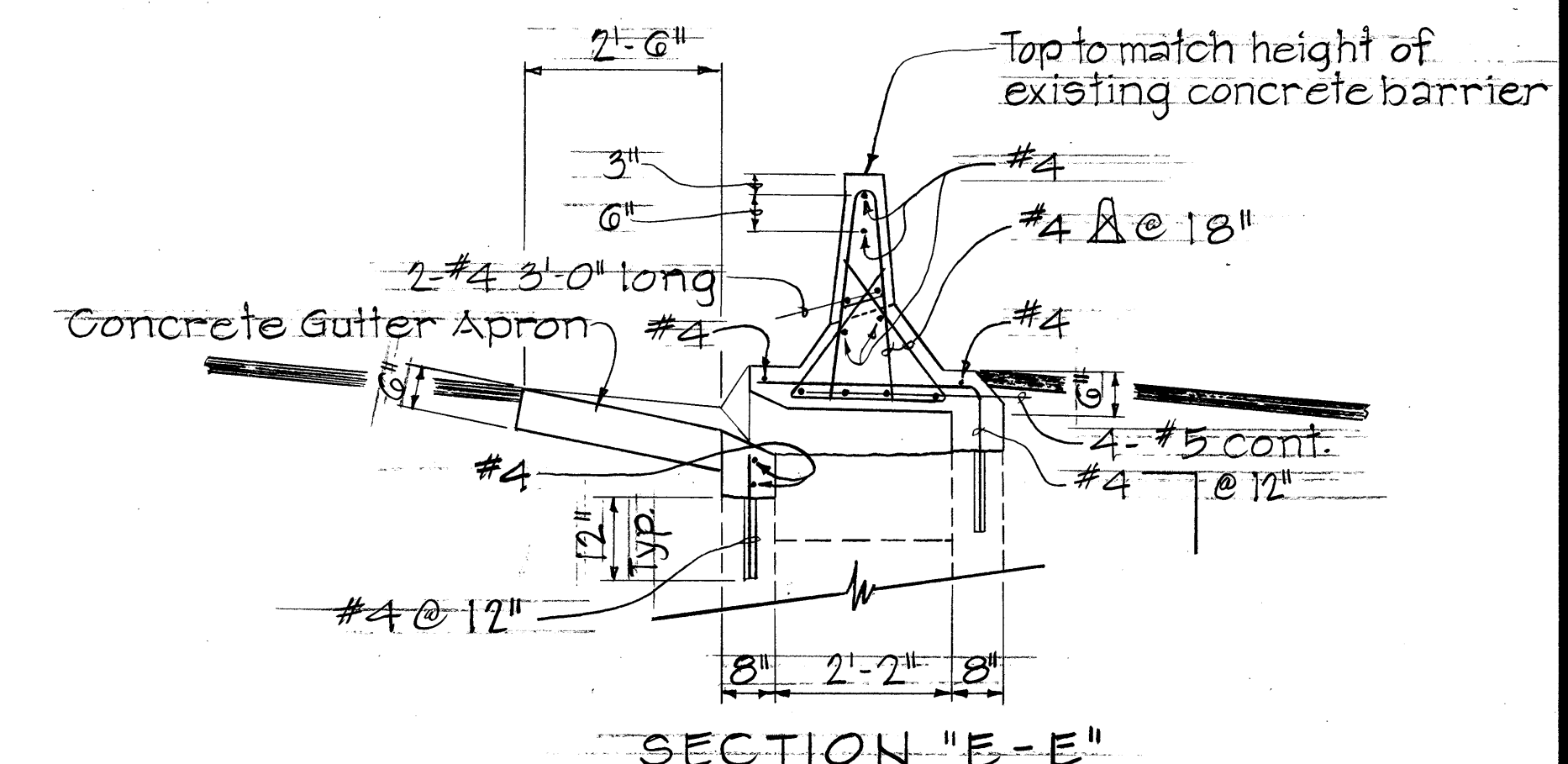
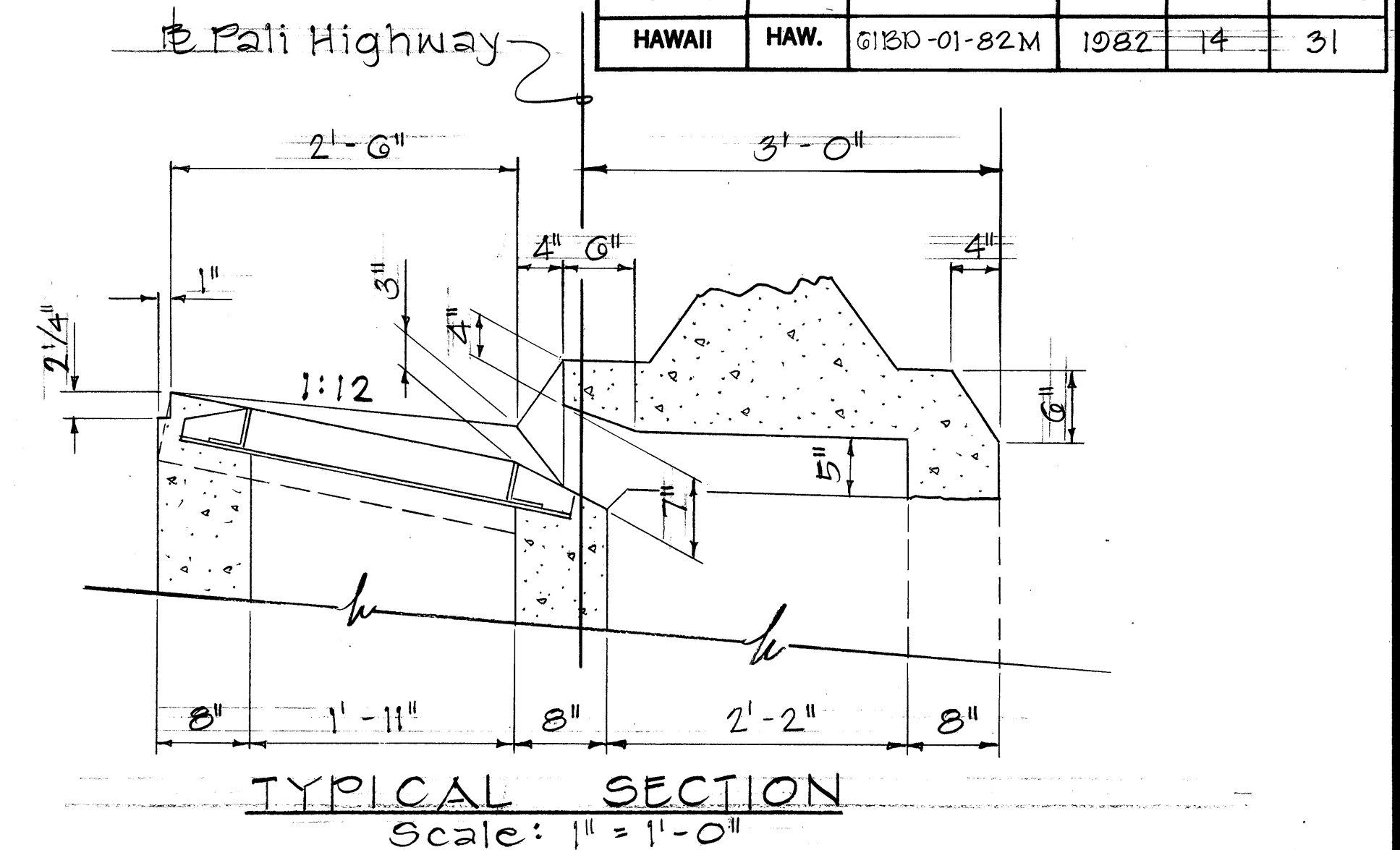
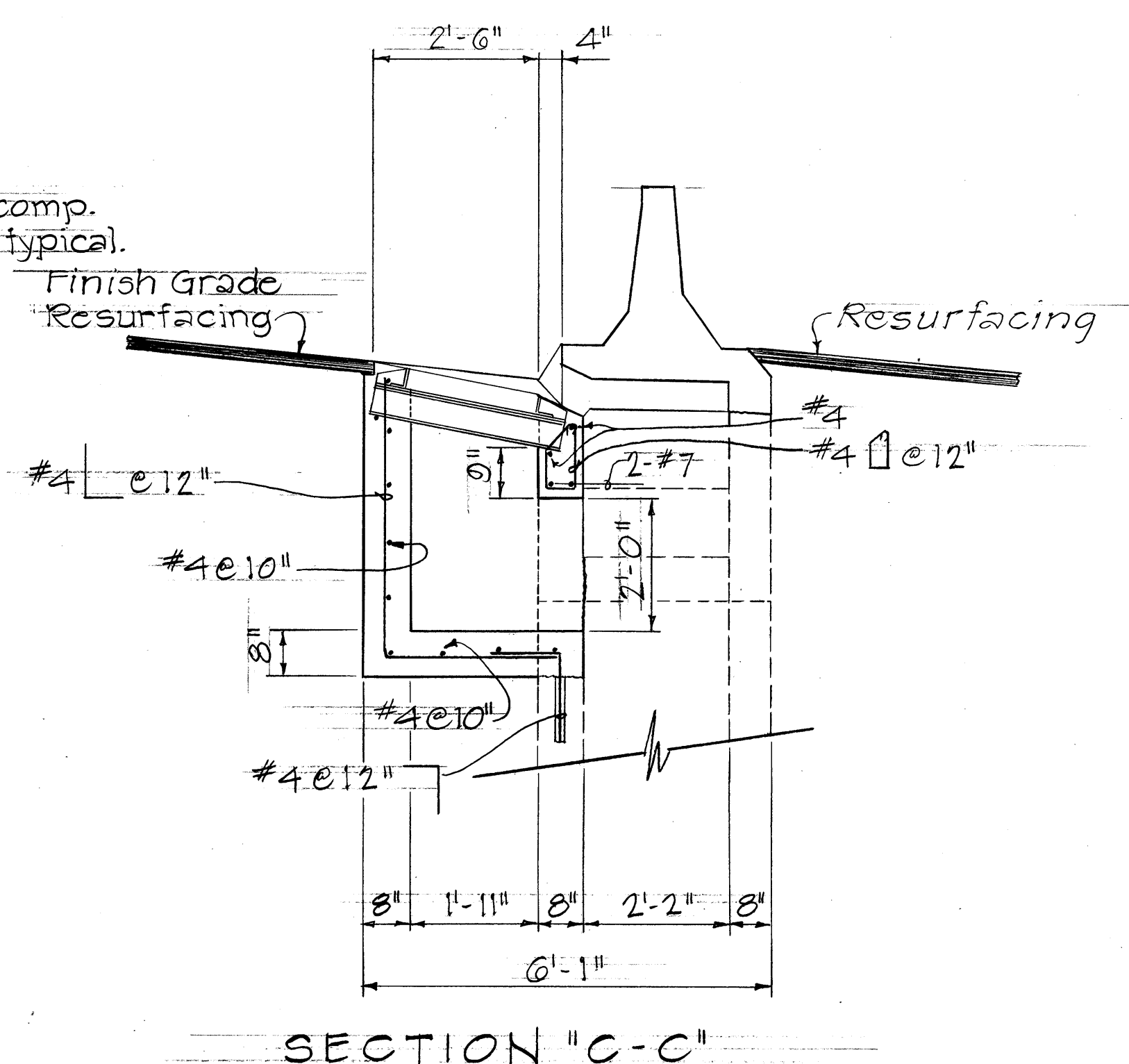
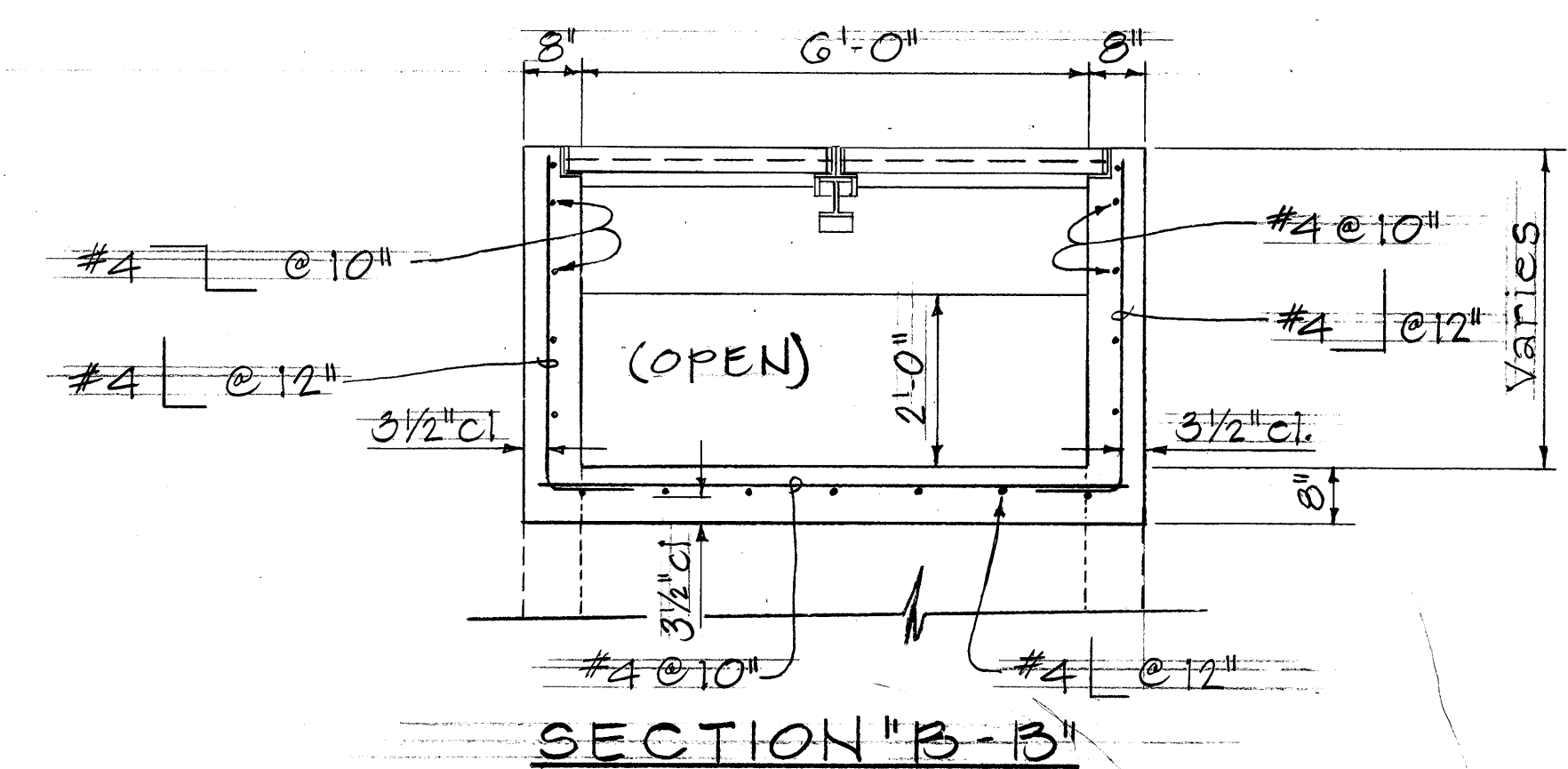
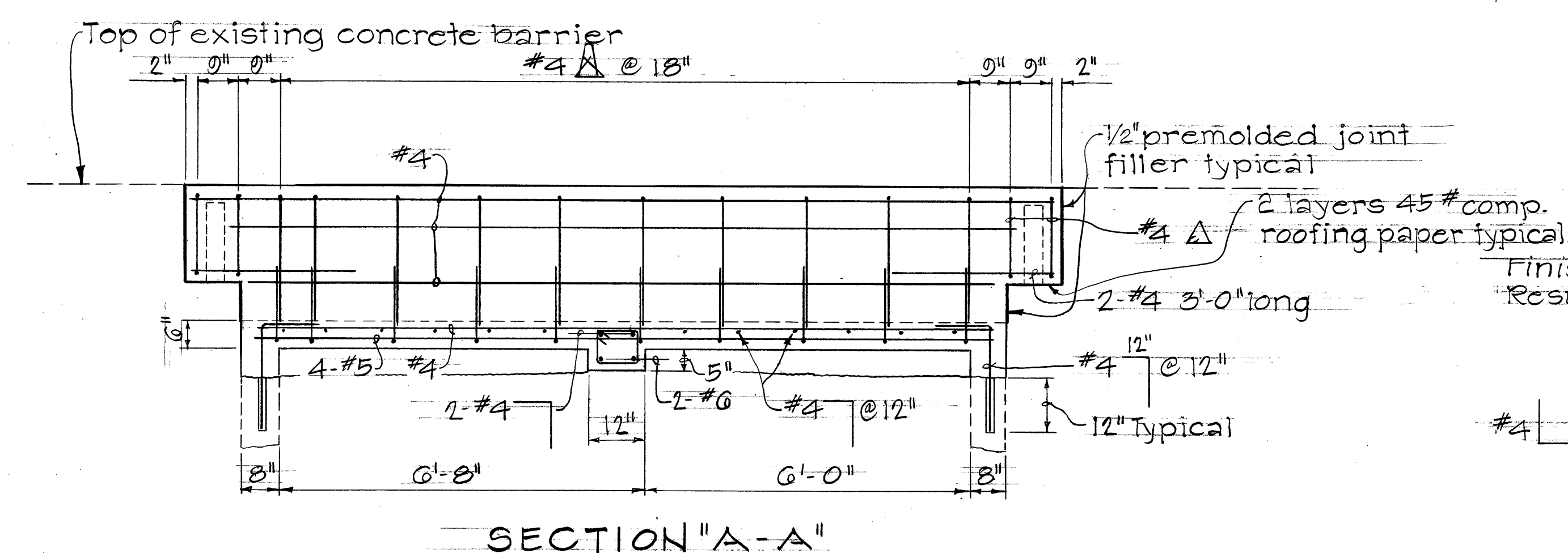
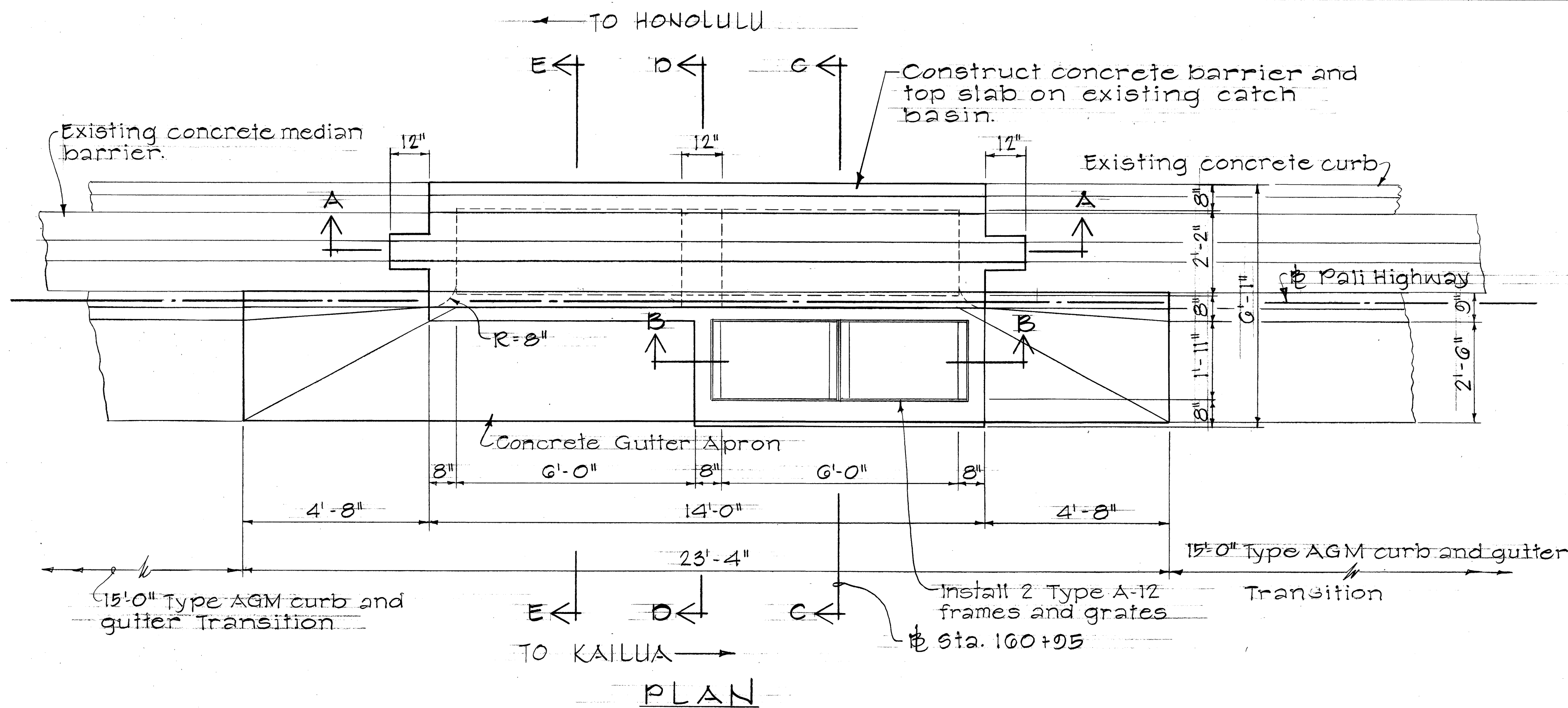
CHECKED BY

SURVEY PLOTTED BY

DRAWN BY

NOTE BOOK

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	G13D-01-82M	1982	14	31



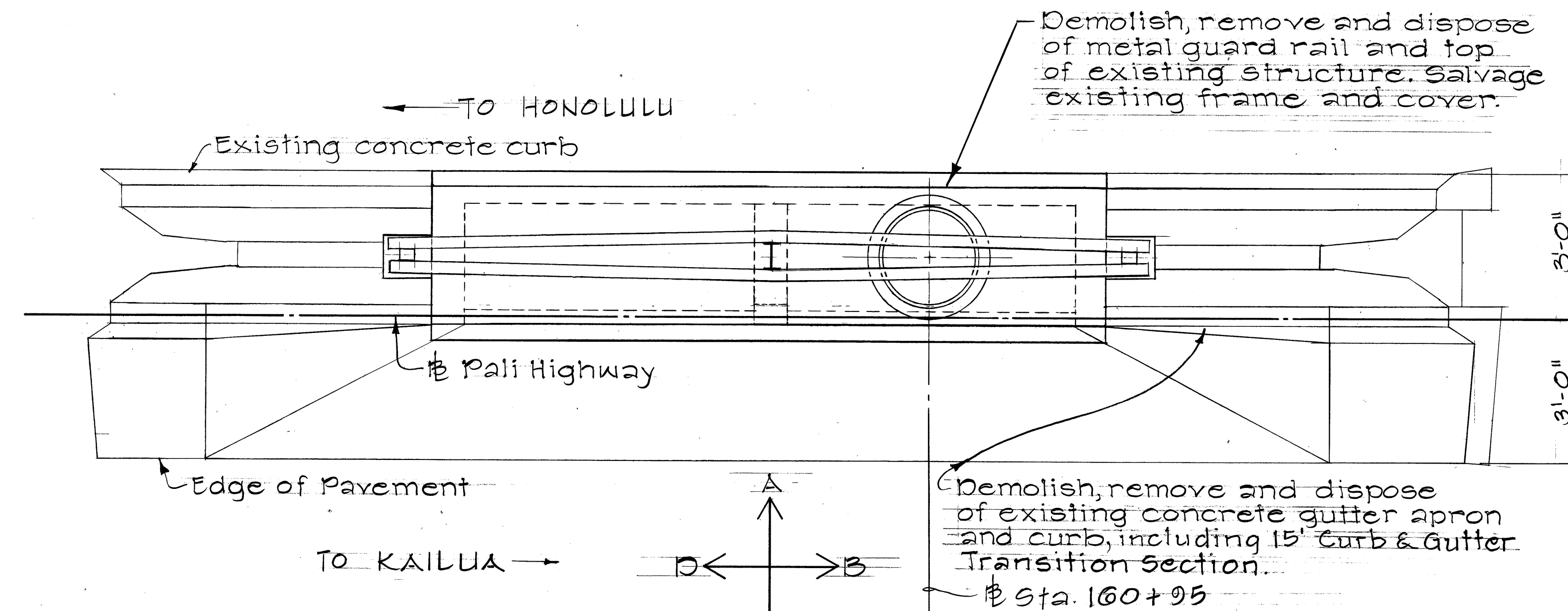
Note: For details of existing catch basin see sheet number 3 of 5.

RECONSTRUCTION OF EXISTING C.B. AT STA. 160+95
Scale: 1/2" = 1'-0"

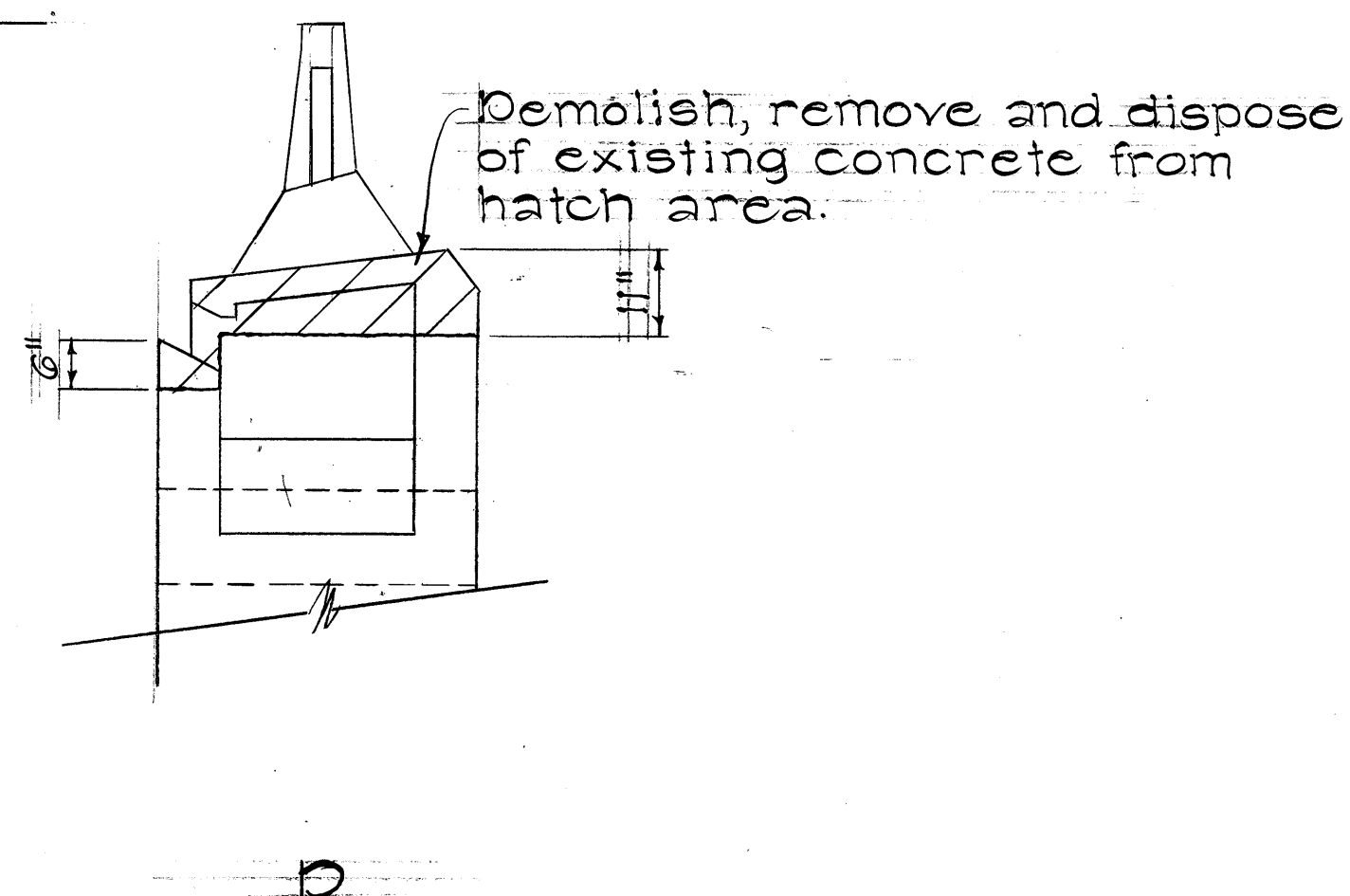
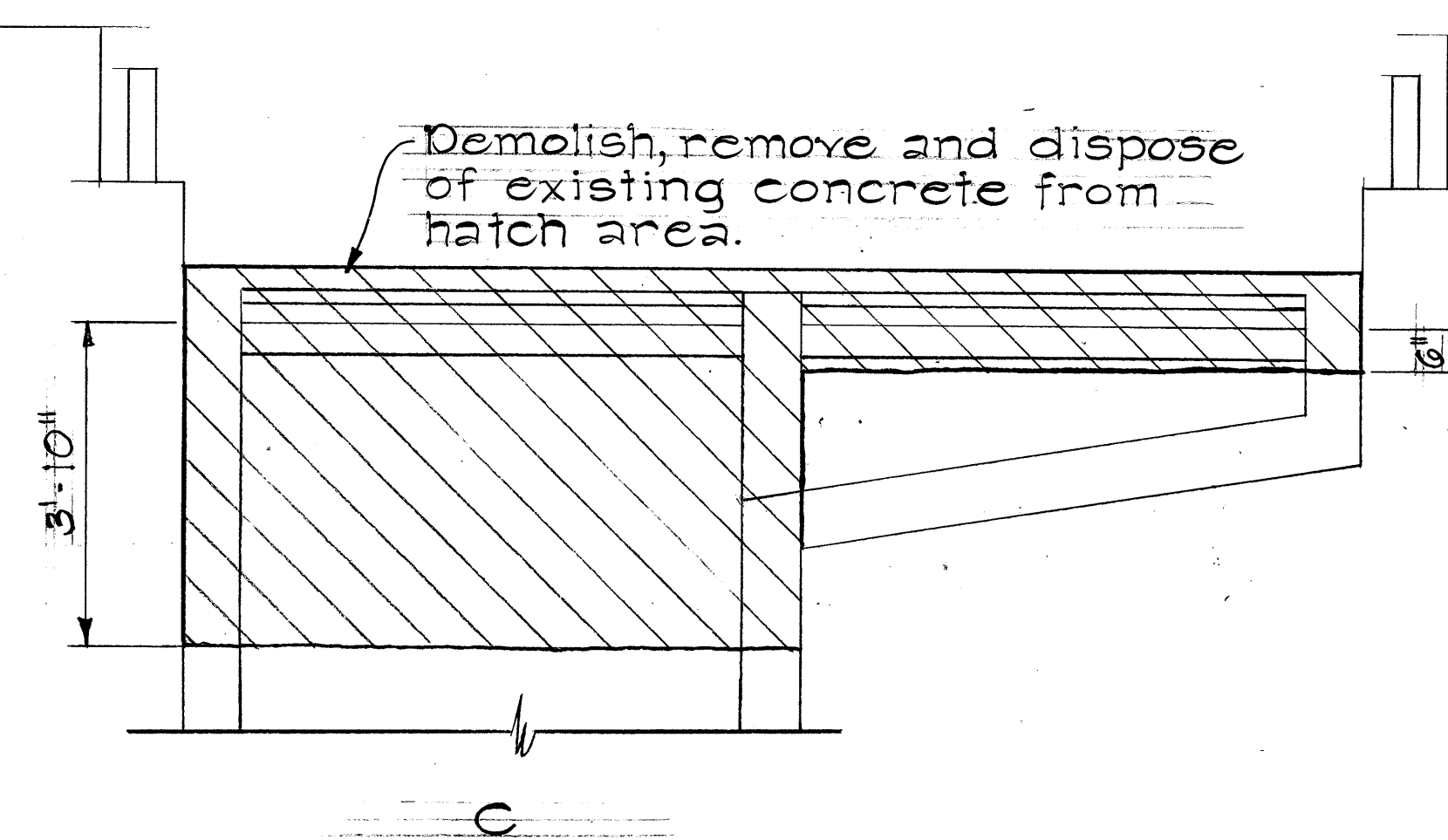
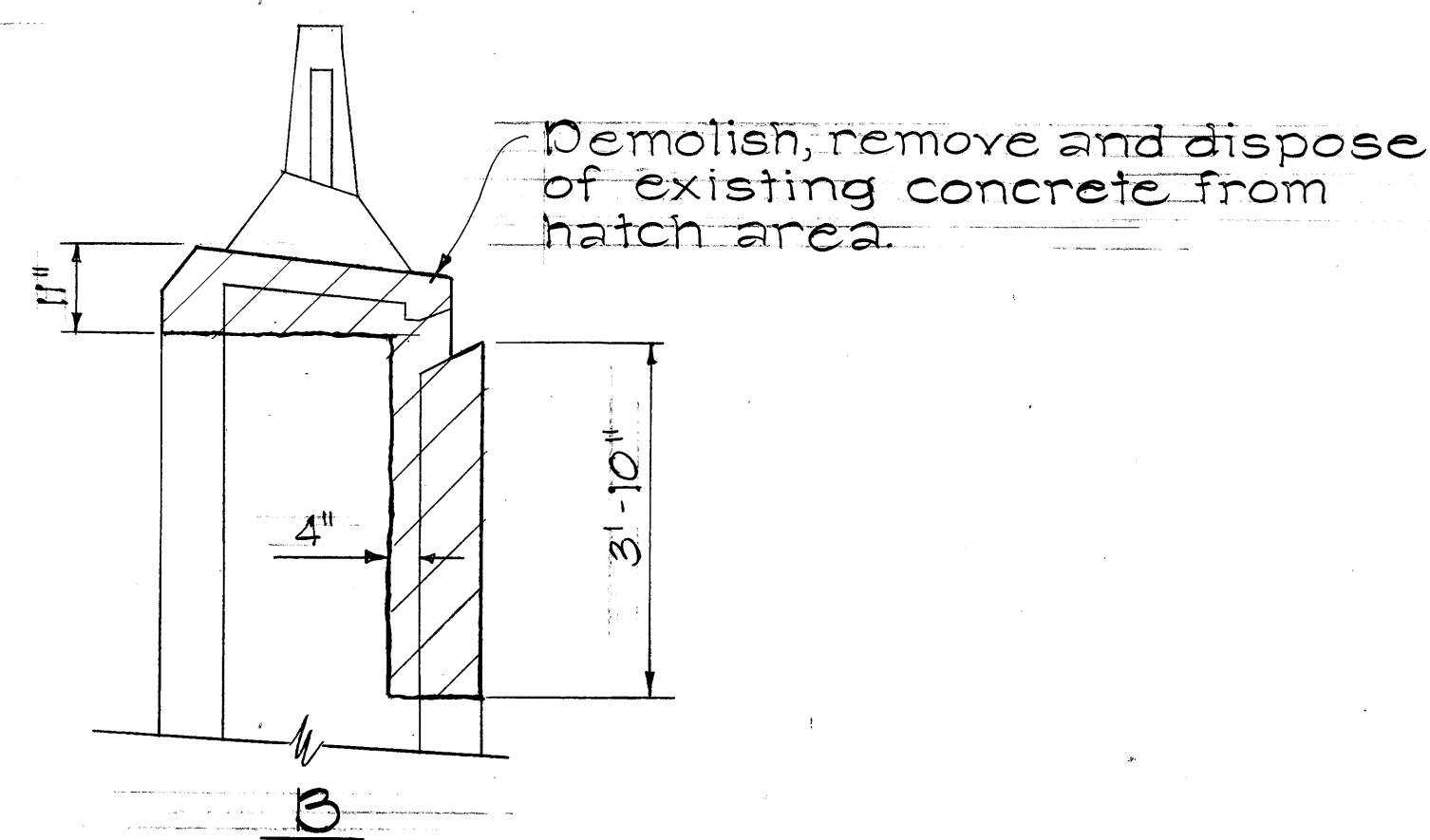
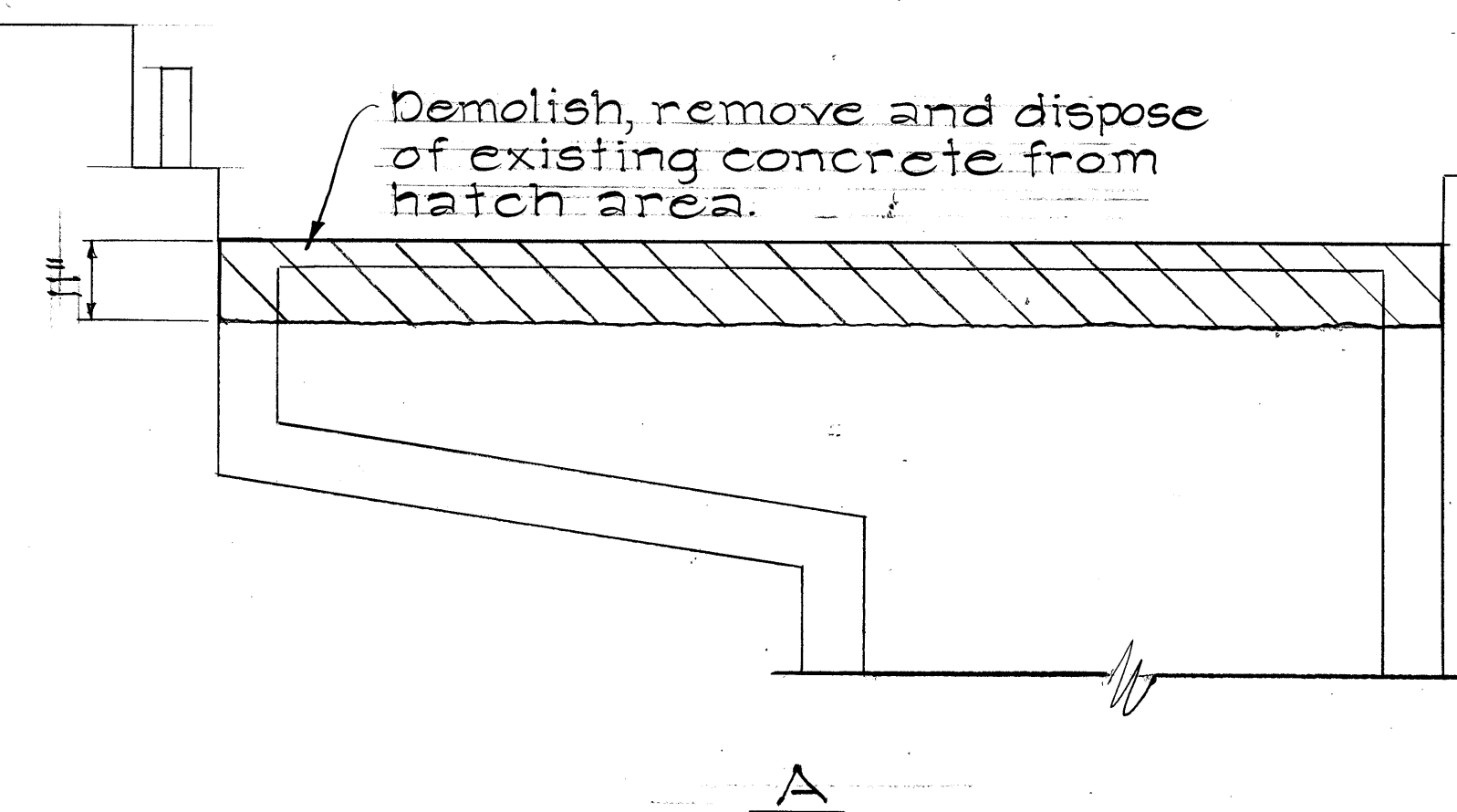
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE DETAILS
PALI HWY. RESURFACING
Reservoir No. 3 to Castle Junction
PROJ. NO. G13D-01-82M
Scale: As Noted Date: Nov. 1981
SHEET No. 2 OF 5 SHEETS

ORIGINAL PLAN
DATE: _____
DRAWN BY: _____
DESIGNED BY: _____
CHECKED BY: _____
NO. _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61B0-01-82M	1982	15	31



PLAN OF EXISTING CATCH BASIN



DETAIL OF EXISTING C.B. AT STA. 160+95

Scale: 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

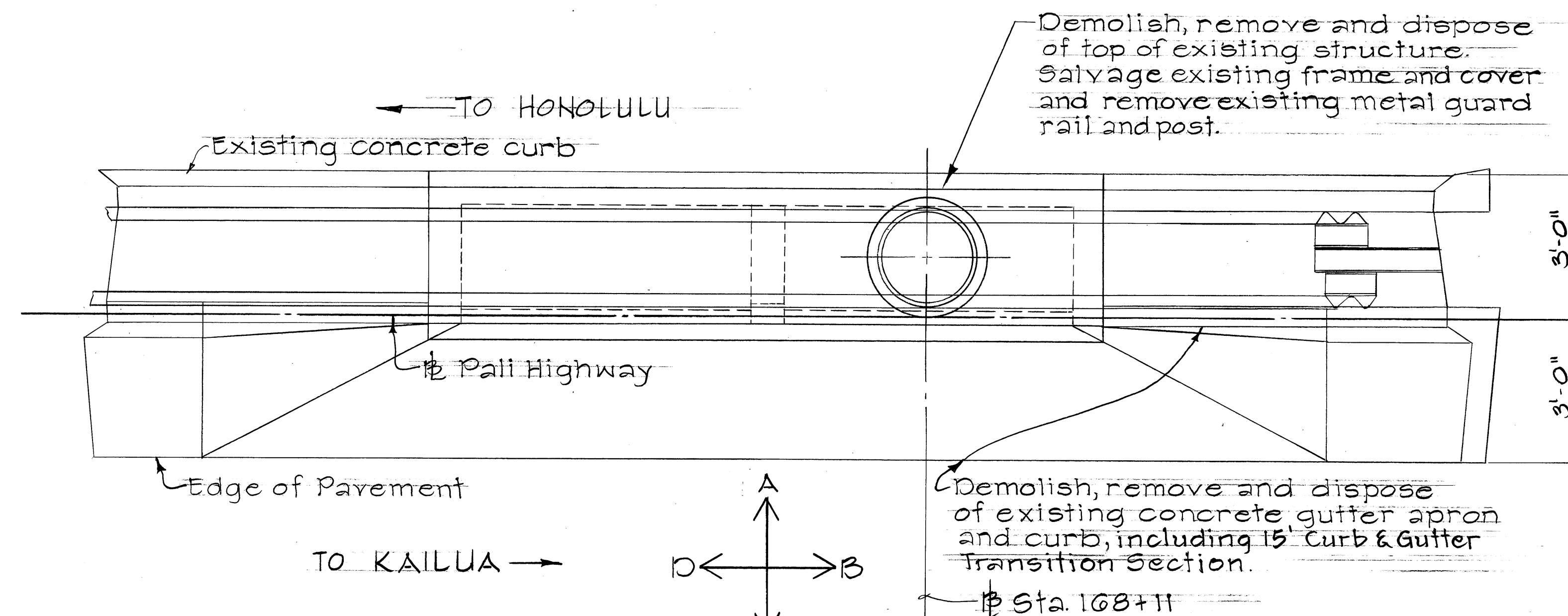
DRAINAGE DETAILS

PALI HWY. RESURFACING
Reservoir No. 3 to Castle Junction
PROJ. NO. 61B0-01-82M

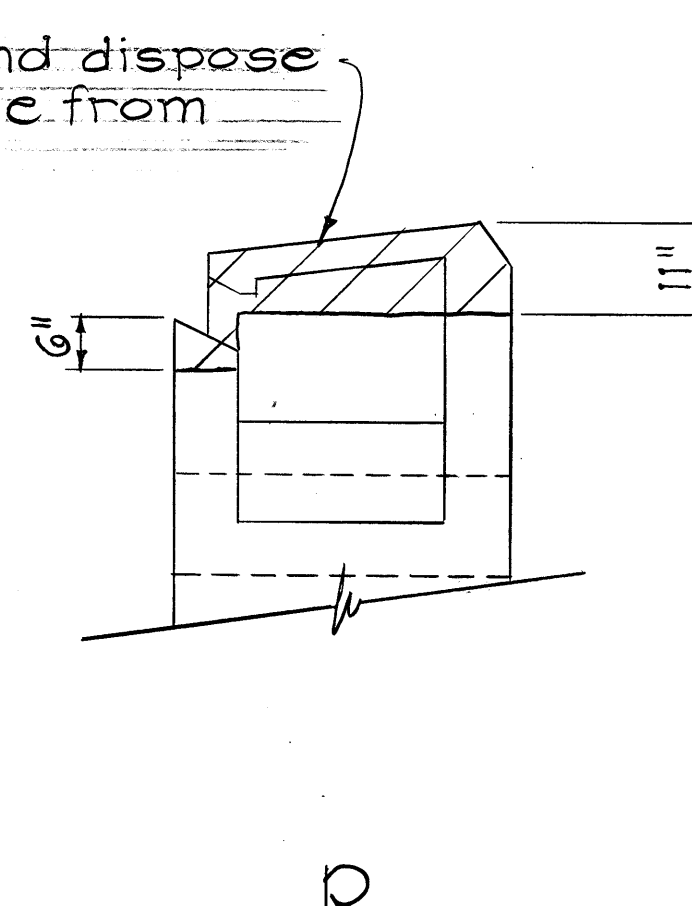
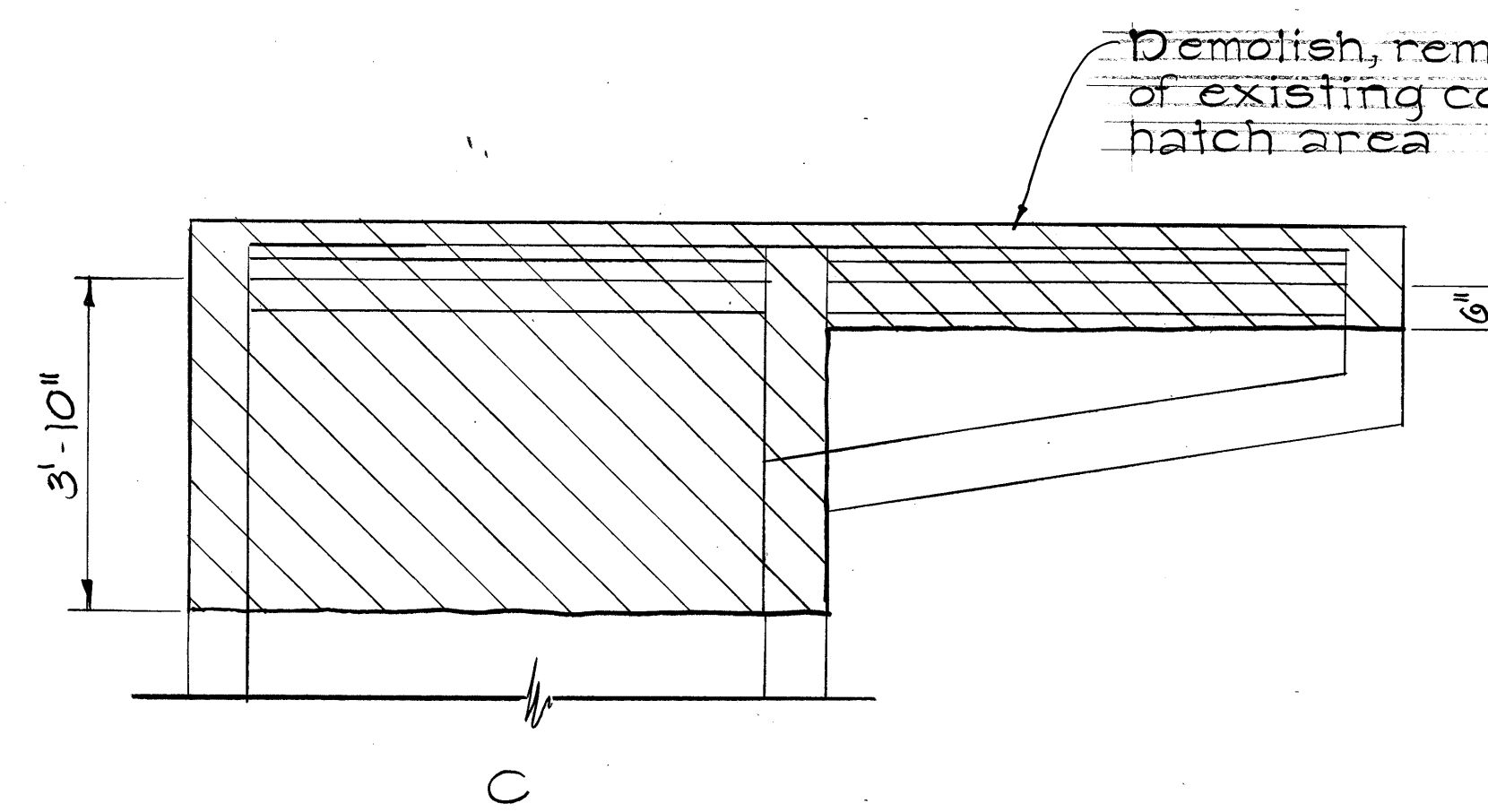
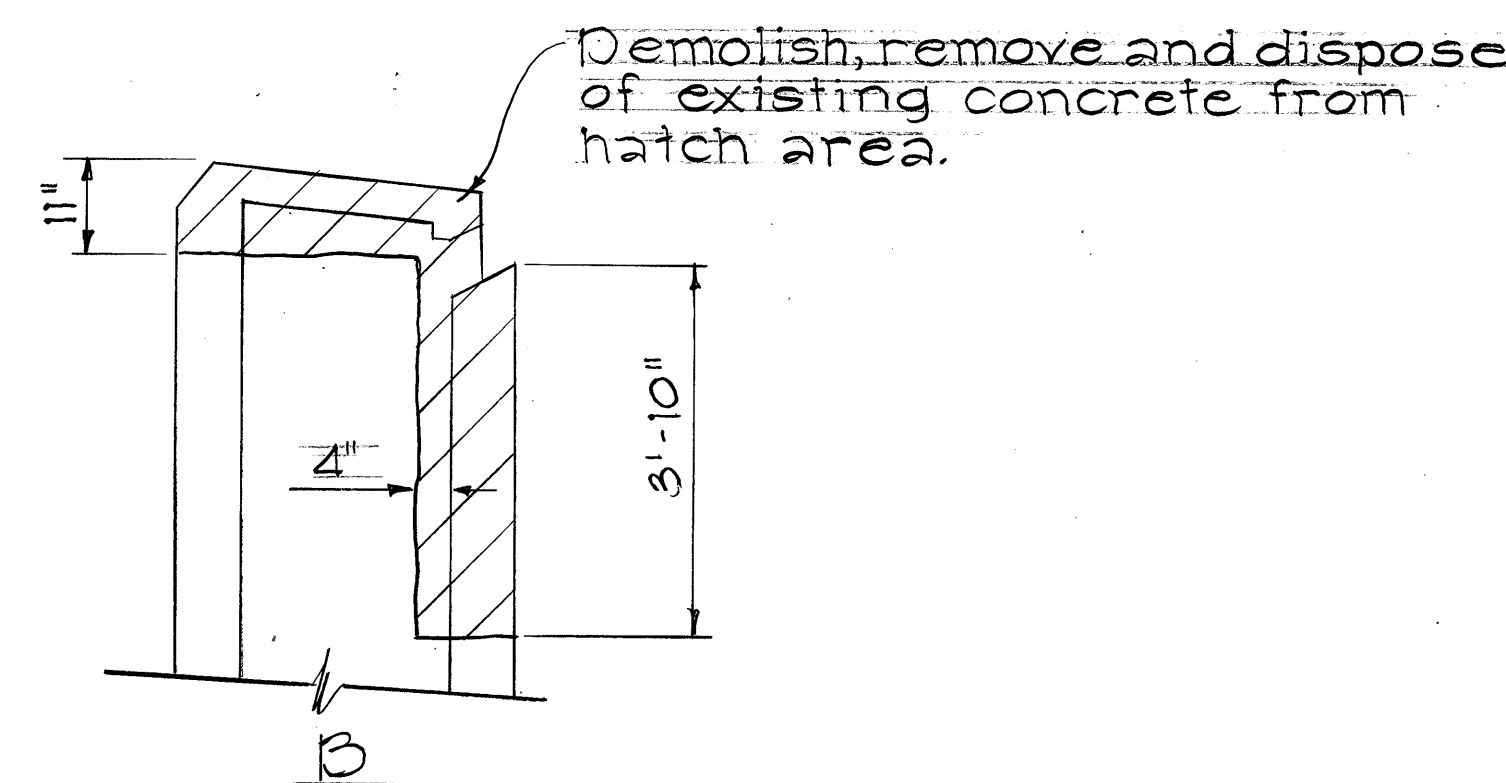
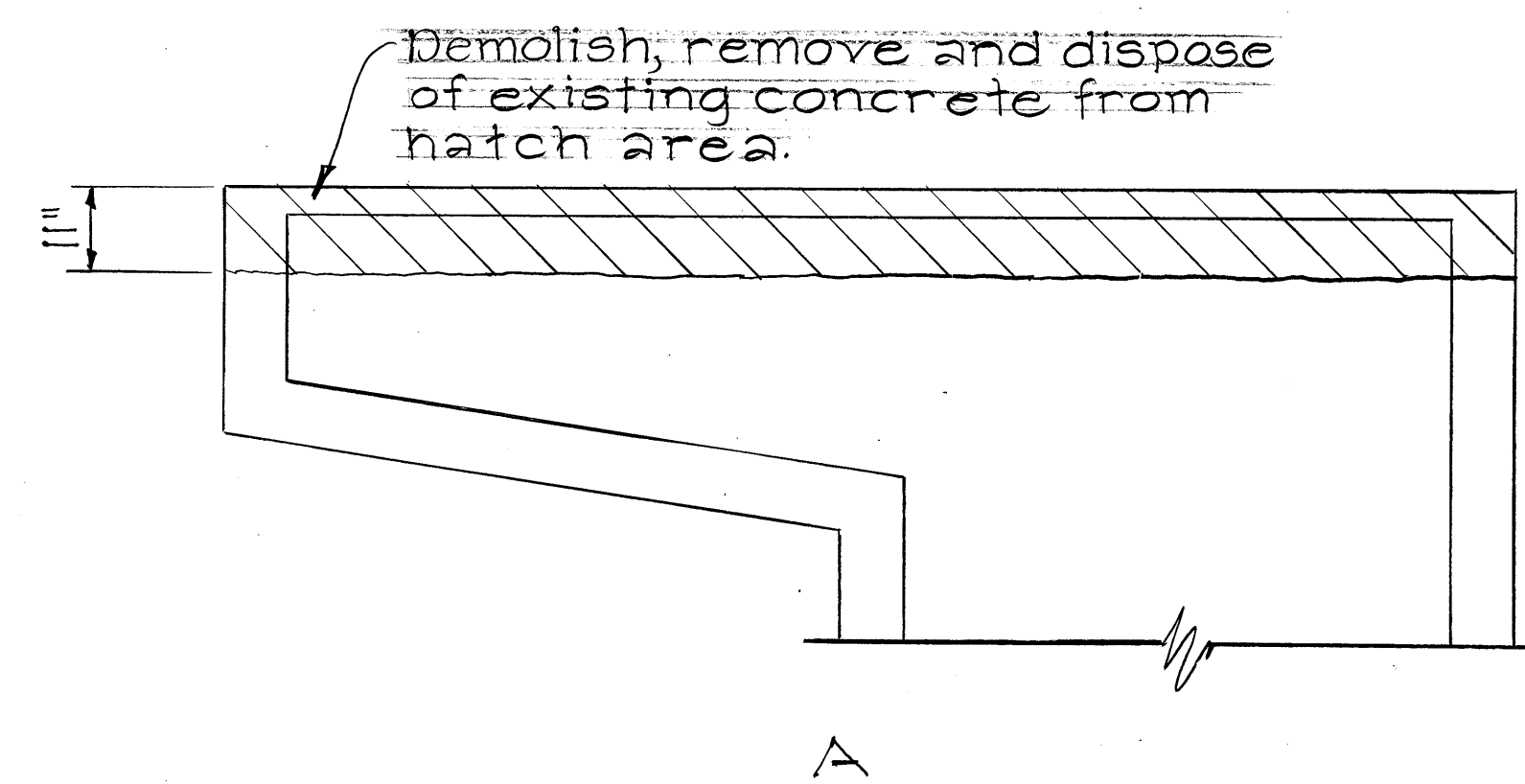
Scale: As Noted Date: Nov. 1981

SHEET No. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61BD-01-82M	1982	17	31



KEY TO INTERIOR ELEVATION
PLAN OF EXISTING CATCH BASIN



DETAIL OF EXISTING C.B. AT STA. 108+11
Scale: 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

PALI HWY. RESURFACING
Reservoir No. 3 to Castle Junction
PROJ. NO. 61BD-01-82M

Scale: As Noted Date: Nov. 1981

SHEET No. 5 OF 5 SHEETS