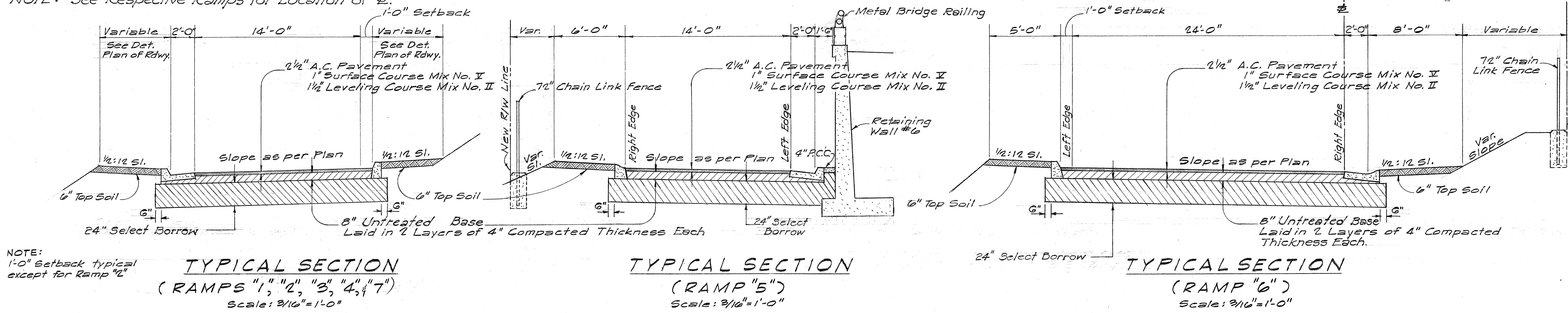


NOTE: See Respective Ramps for Location of $\pm$.

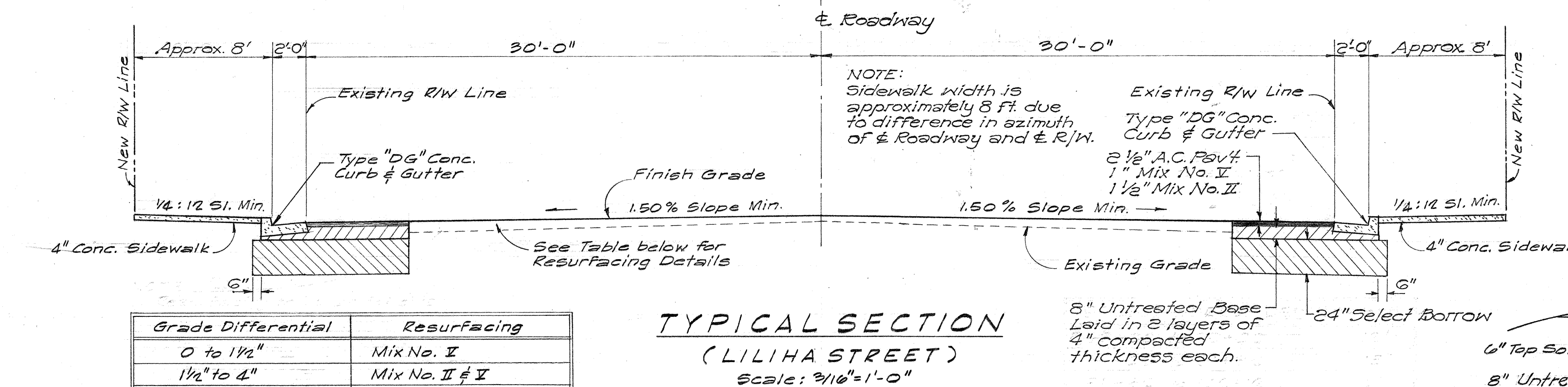
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-072-113	1963	2	246
		U-098-114	1963	2	88
		F-090-115	1963	2	93

GENERAL NOTES

- Asphalt Concrete Pavement shall be of thickness shown fully compacted.
- Surface of existing pavement shall be broomed and given a tack coat of 0.25 gal. per sq. yd. of Emulsified Asphalt, Mixing Type, before laying variable thickness of A.C. Mix No. II Leveling Course or A.C. Mix No. I Surface Course wherever the latter mix is placed directly on existing pavement.
- Medium Curing Liquid Asphalt (MC-O) for Prime Coat shall be applied to the surface of Untreated Base at the rate of 0.35 gal. per sq. yd. before placing Leveling Course.
- Portland Cement Concrete Pavement shall not be reinforced with bars or wire mesh, except where reinforcement is required by the Engineer for protection of certain sub-structures. No longitudinal contact joints are permitted--pavement shall be paved full width. "Weakened Plane Joints" shall be installed approximately 15 ft. on centers. No Expansion Joints are required. All P.C.C. pavements to be 8" thick unless otherwise noted.
- Excavation: All excavations shall be Class "A" Excavation.
- Irregularities of existing pavements shall be leveled with A.C. Mix No. II before laying Surface Course using Mix No. I. Where Untreated Base is to be laid over existing pavement, such pavement shall be removed and sub-grade rolled prior to placing of Untreated Base. Untreated Base shall be placed in layers of not over 4" compacted thickness, unless otherwise noted.
- Wherever Type "A" Conc. Curb is shown, this curb shall be as shown on the Standard Details, except that recesses shall be omitted.
- Select Borrow Subbase material shall be placed in uniform layers not exceeding 6 inches after compaction.

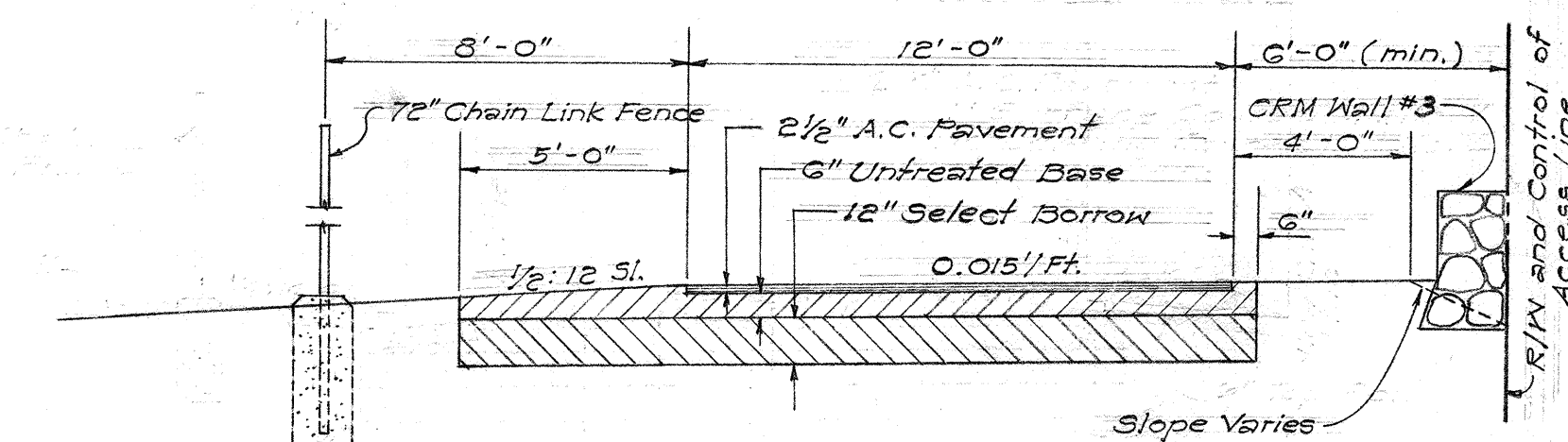
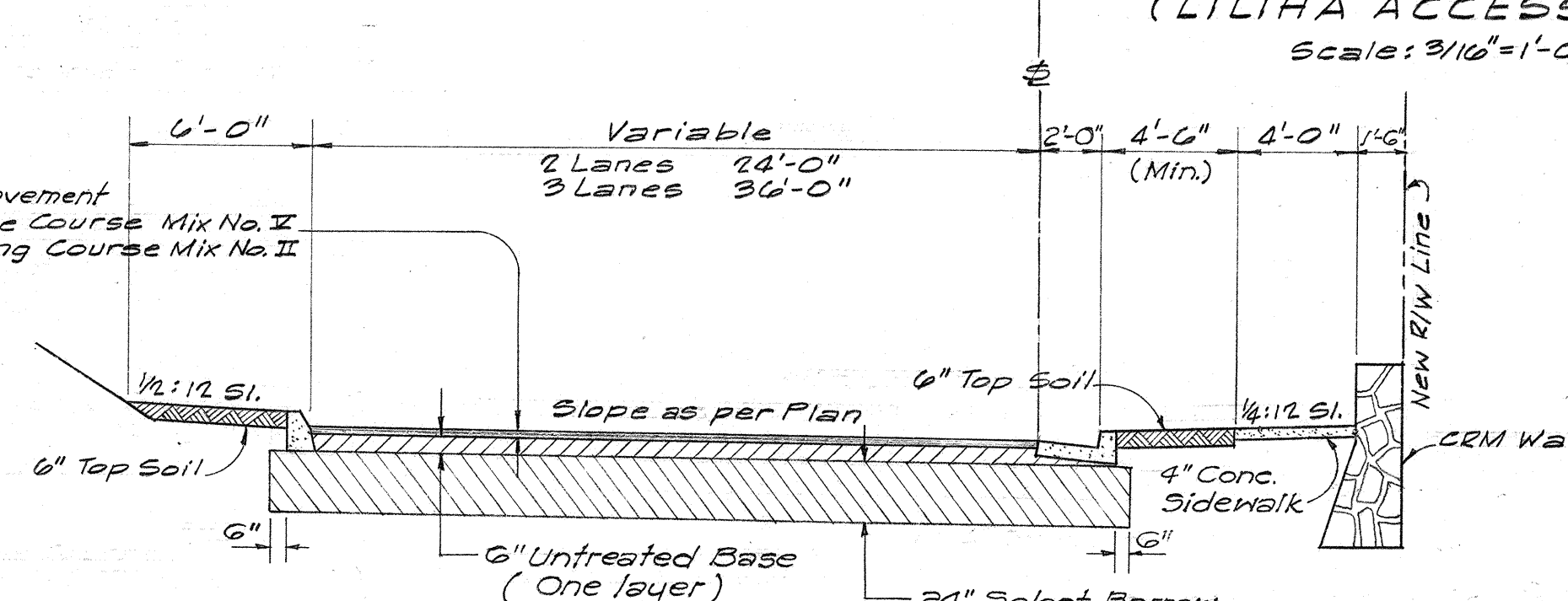
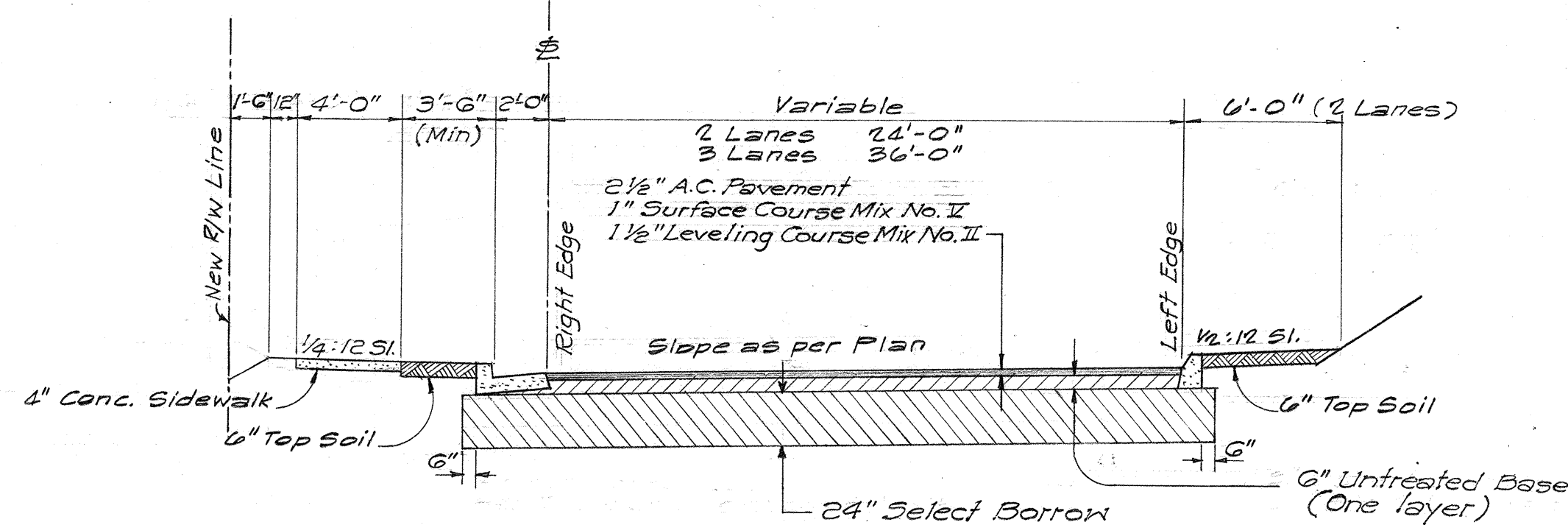
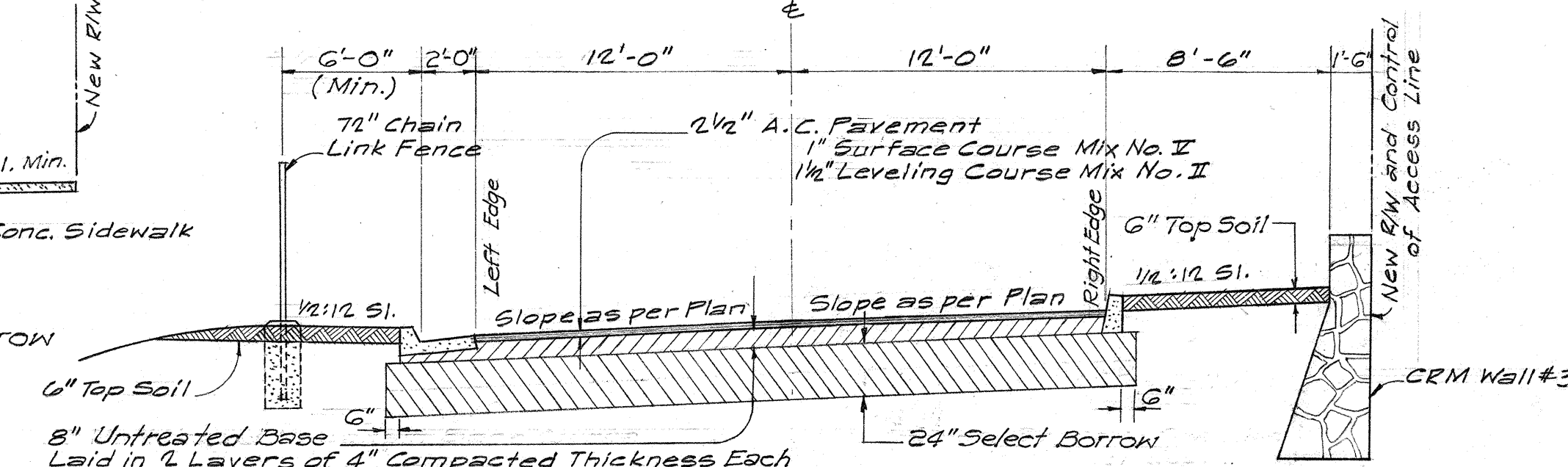


NOTE: 1'-0" Setback Typical except for Ramp "2"

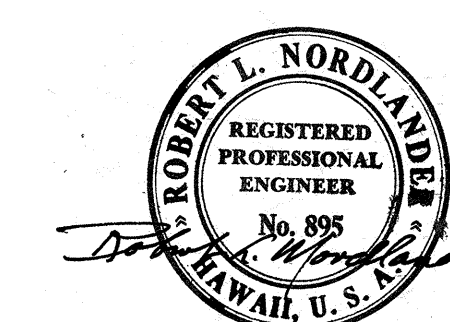


Grade Differential	Resurfacing
0 to 1 1/2"	Mix No. I
1 1/2" to 4"	Mix No. II & I
4" to 8"	0" to 4" UB with Mix II & I
8" to 24"	4" to 24" UB with Mix II & I

NOTE: $\pm$ offsets from Right Edge to $\pm$



NOTE: See DETAIL PLAN OF ROADWAY for Curb & Gutter Types, Cut & Fill Slopes, Pavement Slopes and width of pavement.



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Civil and Structural Engineers

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STATE OF HAWAII	
TYPICAL SECTIONS	
LUNALILO FREEWAY	U-072-1(3)
VINEYARD BOULEVARD	U-098-1(4)
LILIHA STREET	F-090-1(2)

SHEET NO. 1 OF 7 SHEETS

DESIGNED BY: L. Nordland
DRAWN BY: L. Nordland
CHECKED BY: L. Nordland
DATE: 10/20/62

109010200.2

009810400.2

007210300.2

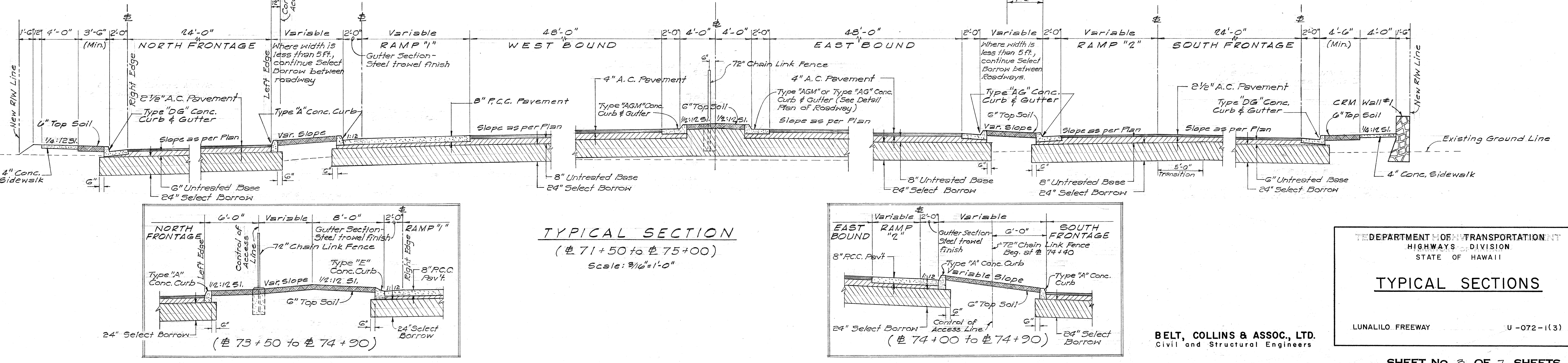
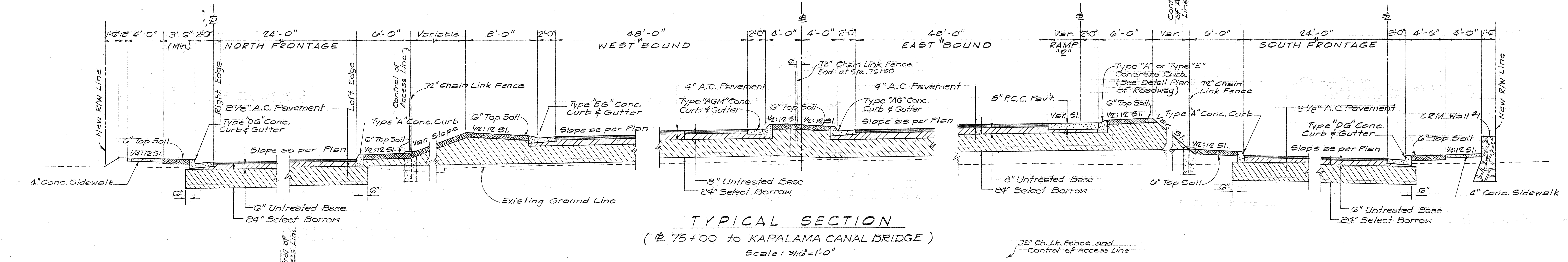
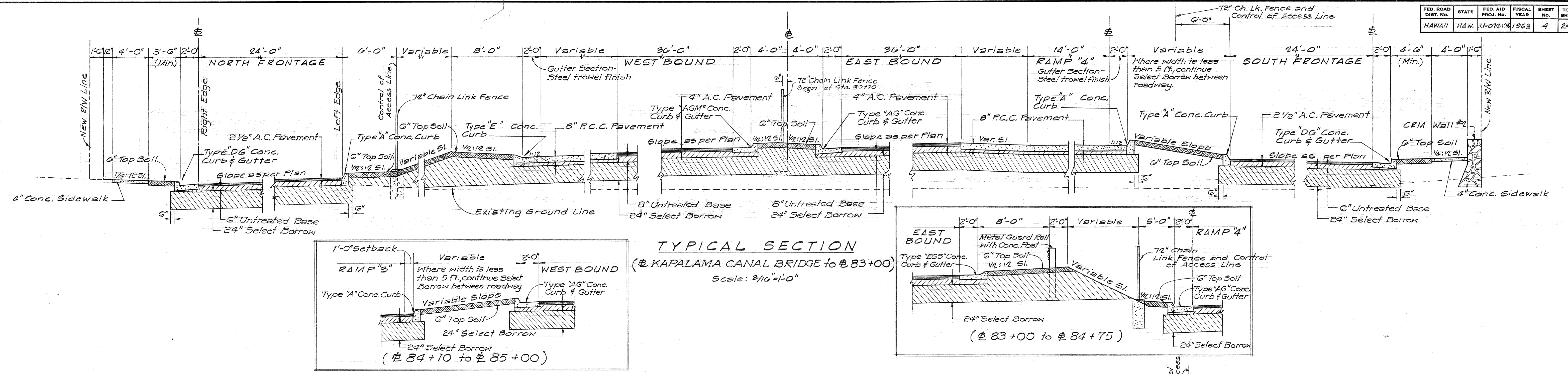
ORIGINAL PLAN	SURVEY PLOTTED BY <u>DATE</u> <u>DESIGNED BY Jordan, J. E. Harsh</u>
NOTE BOOK	DRAWN BY <u>W. J. M. S. S. S. S.</u>
No.	QUANTITIES BY <u>W. J. M. S. S. S. S.</u>
	QUANTITIES CHECKED BY _____
	CHECKED BY _____

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STATE OF HAWAII

TYPICAL SECTIONS

LUNALILO FREEWAY

U-072-1(3)



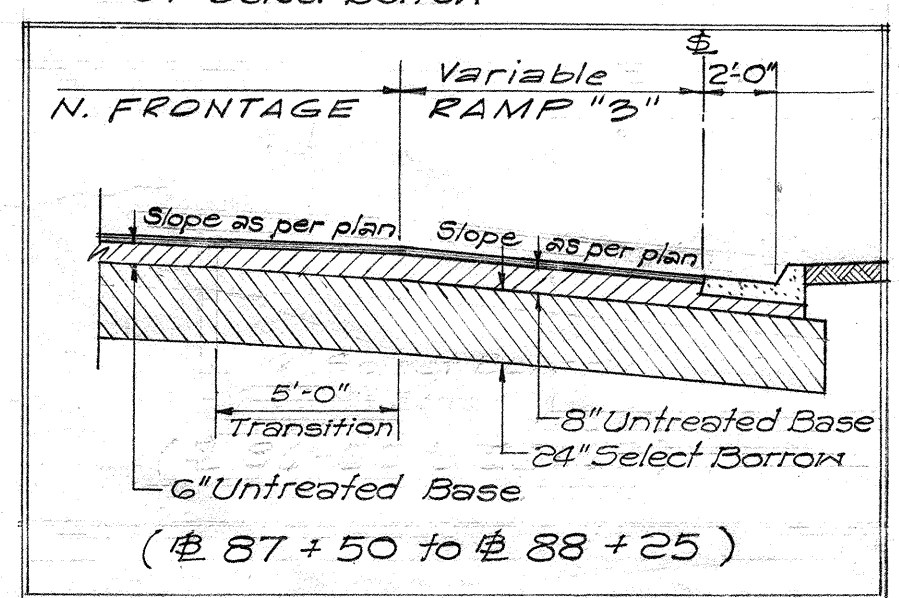
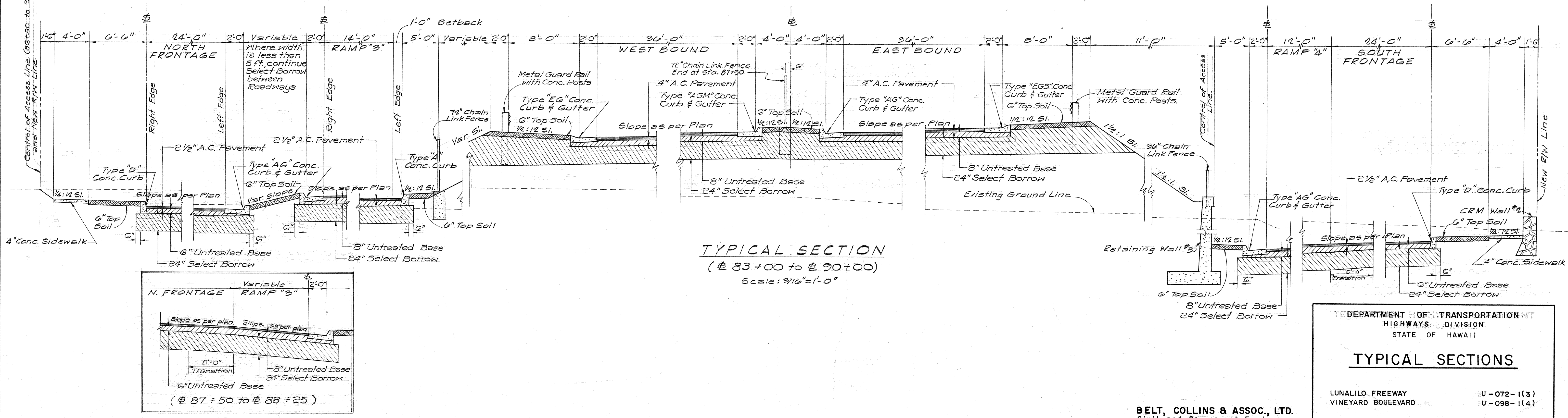
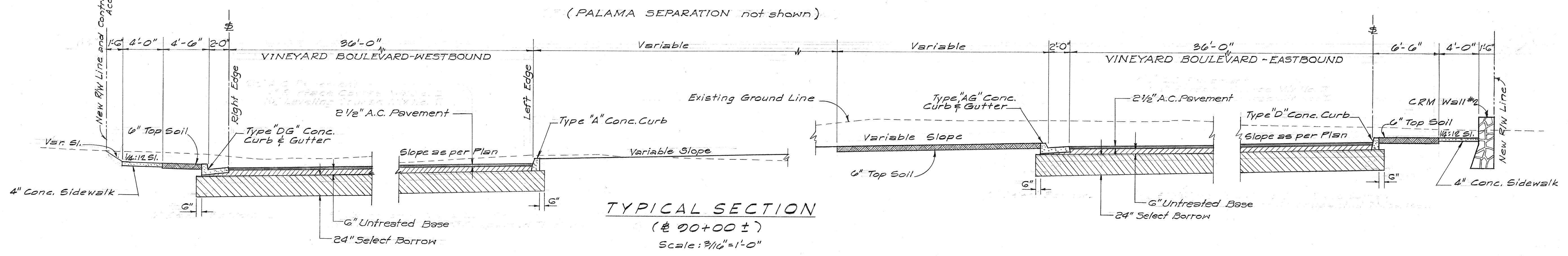
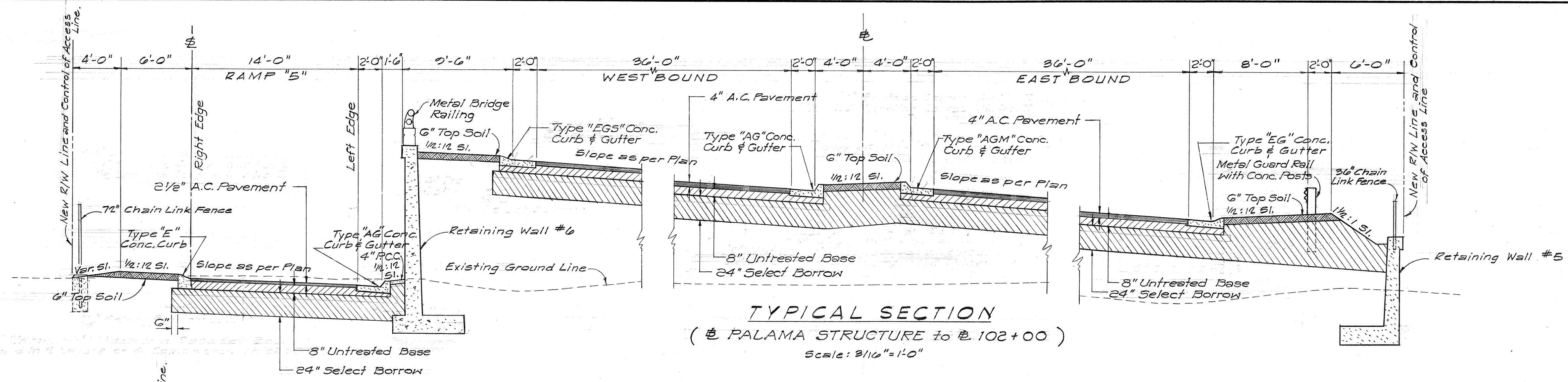
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 NO. [blank]

DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 STATE OF HAWAII
TYPICAL SECTIONS
 LUNALILO FREEWAY U-072-1(3)

BELT, COLLINS & ASSOC., LTD.
 Civil and Structural Engineers

U07210300.4

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-072-1(3)	1963	5	246
		U-098-1(4)	1963	3	88



DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STATE OF HAWAII

TYPICAL SECTIONS

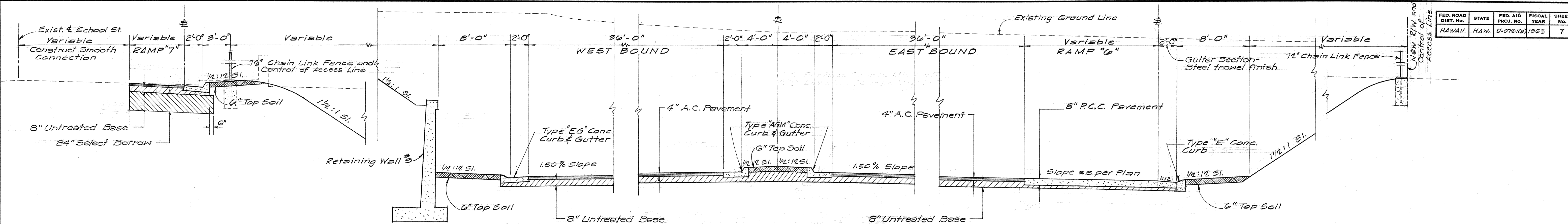
LUNALILO FREEWAY U-072-1(3)
VINEYARD BOULEVARD U-098-1(4)

BELT, COLLINS & ASSOC., LTD.
Civil and Structural Engineers

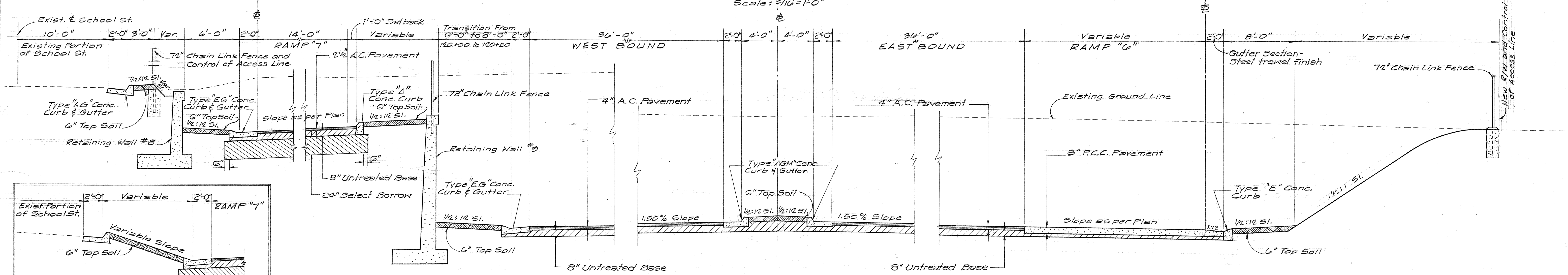
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U07210300.5

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Date]

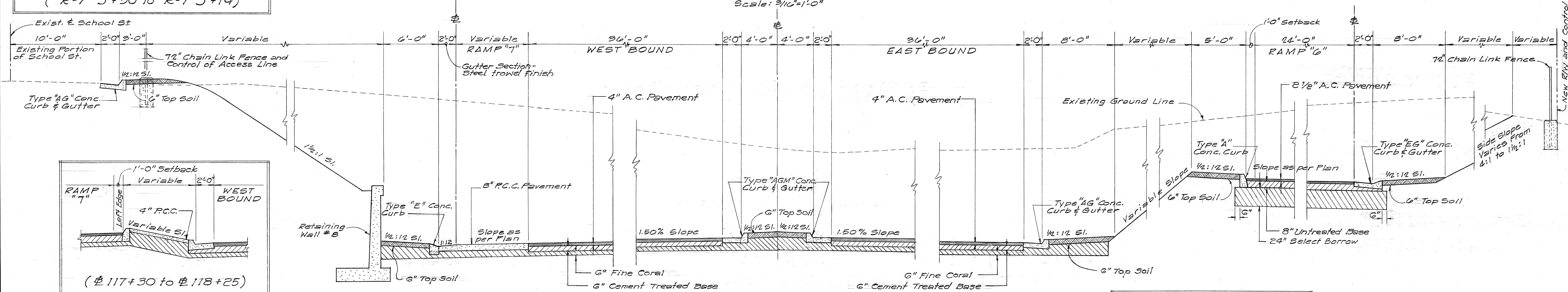
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HAWAII	HAW.	U-072-1(3)	1963	7	246



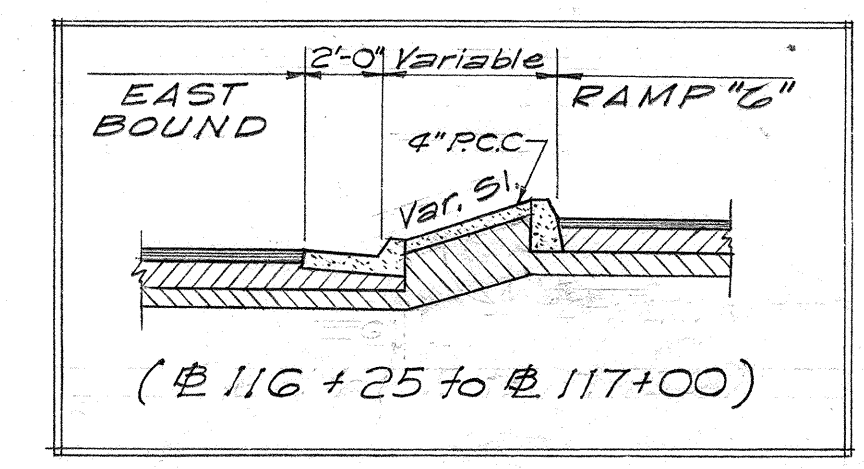
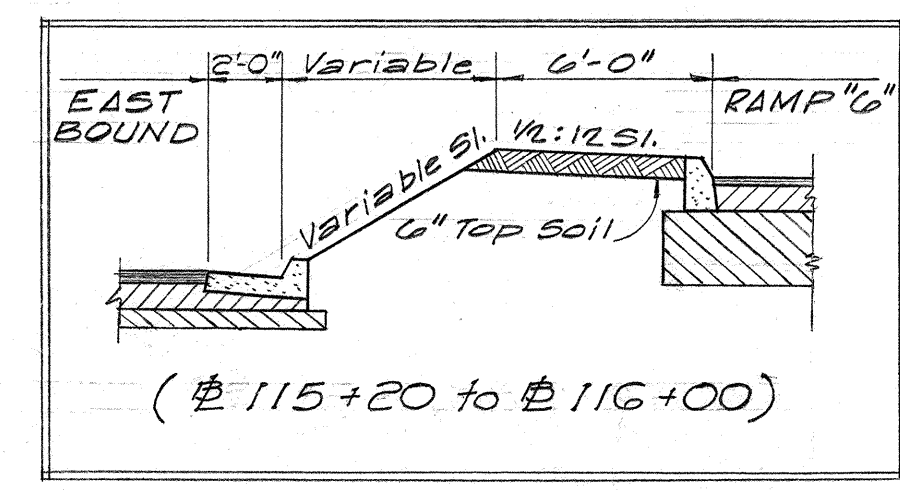
TYPICAL SECTION
($\pm 121+00$ to AALA ST. EXTENSION SEPARATION)
Scale: $\frac{3}{16}'' = 1'-0''$



TYPICAL SECTION
($\pm 116+00$ to $\pm 121+00$)
Scale: $\frac{3}{16}'' = 1'-0''$



TYPICAL SECTION
($\pm 112+00$ to $\pm 116+00$)
Scale: $\frac{3}{16}'' = 1'-0''$



DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STATE OF HAWAII

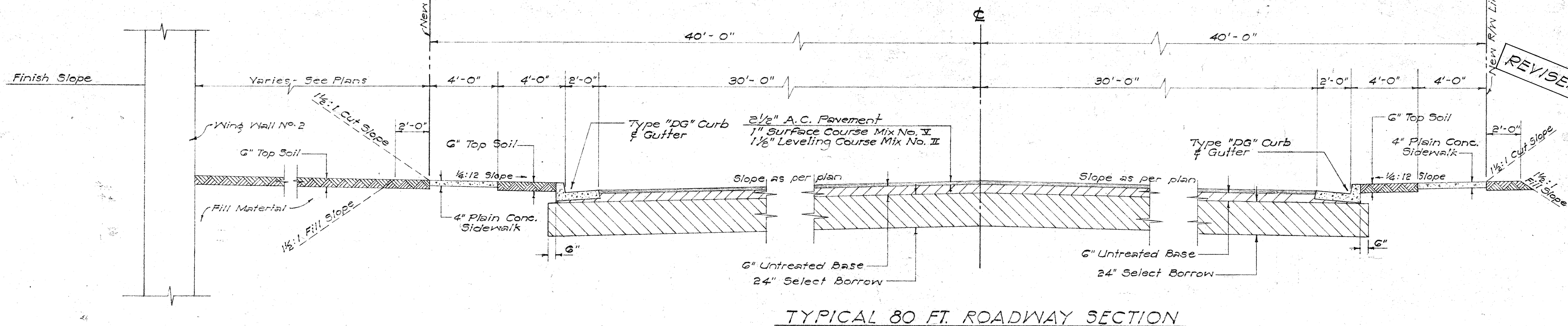
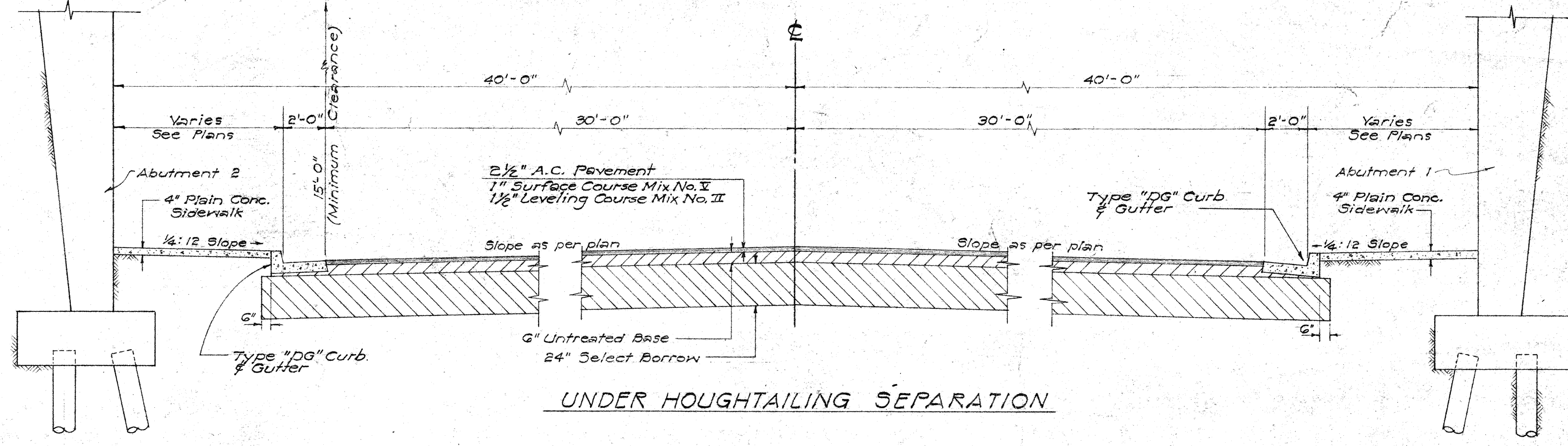
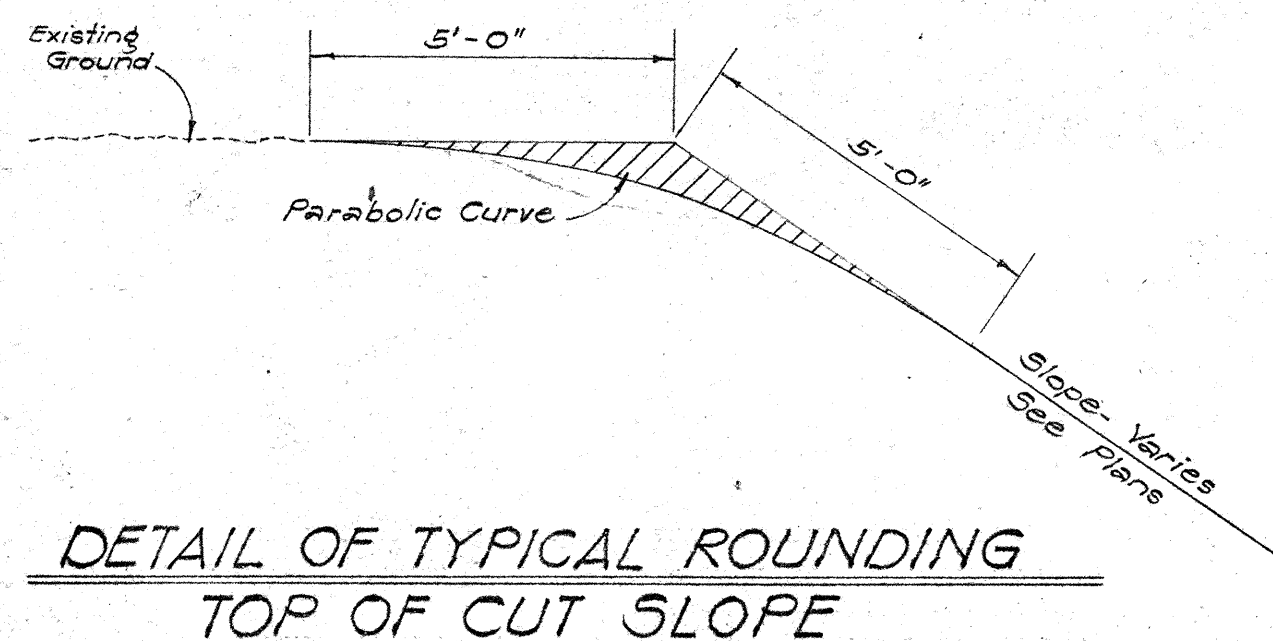
TYPICAL SECTIONS

LUNALILO FREEWAY U-072-1(3)

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

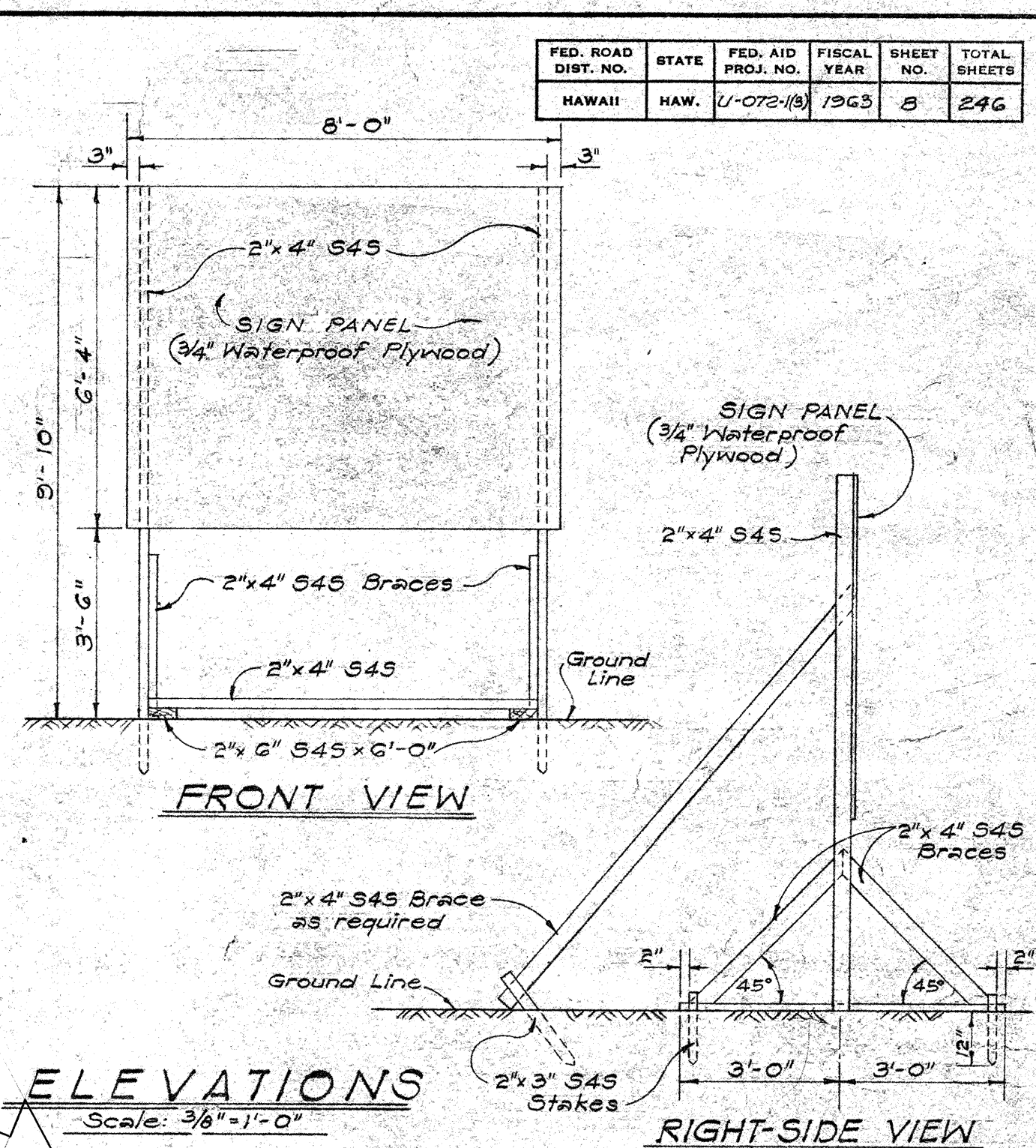
NOTE:

The tops of excavation slopes shall be rounded as shown on the plans or as directed by the Engineer. Rounding the cut slope will be paid for as Roadway Excavation for the quantities involved and no additional compensation will be allowed for such work.



HOUGHTAILING ST. TYPICAL SECTIONS

Scale: 1/4" = 1'-0"



YOUR HIGHWAY TAXES AT WORK

1.6 MILES **COST \$ 000,000**

STATE FUNDS 50% FEDERAL-AID FUNDS 50%

HAWAII HIGHWAYS DIVISION

U.S. DEPT. OF COMMERCE BUREAU OF PUBLIC ROADS

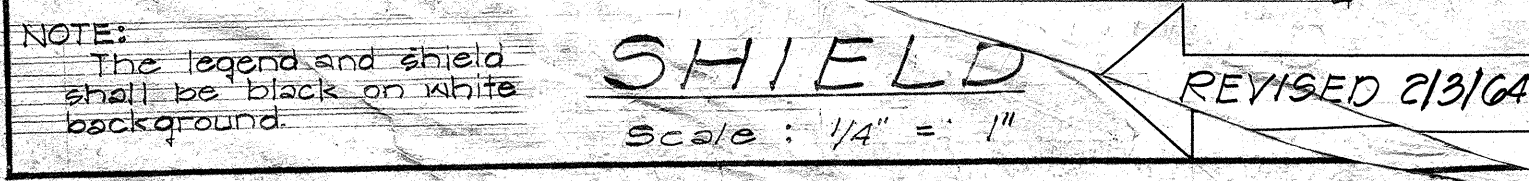
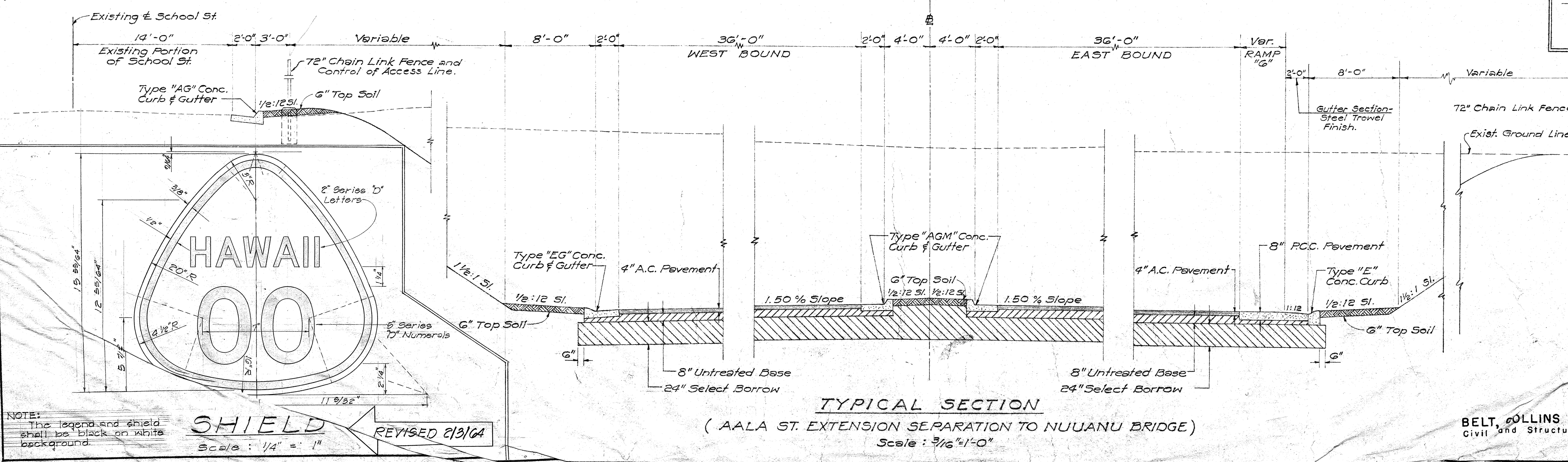
PROJECTS U-072-1(3), U-098-1(4), F-090-1(2)

CONSTRUCTION IDENTIFICATION SIGN

Scale: Not to Scale

NOTE:

1. Six (6) Signs shall be required.
2. Location of these Signs to be placed are shown in Phase I on Construction Phases Plans, Sheet No. 13.
3. Exact positions of these Signs at various locations will be determined by the Engineer.



REVISÉ 2/3/64

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Civil and Structural Engineers

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

LUNALILO FREEWAY **U-072-1(3)**

SHEET No. 7 OF 7 SHEETS