

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	"
	DESIGNED BY	"
NOTE BOOK	QUANTITIES BY	"
	QUANTITIES CHECKED BY	"
No.		"

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

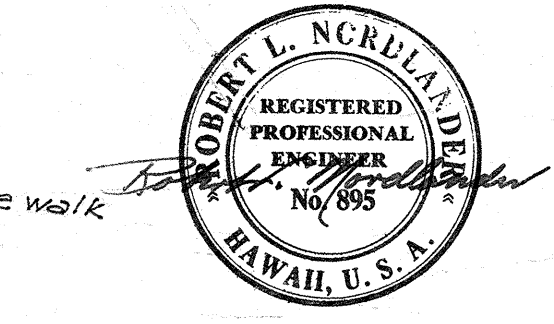
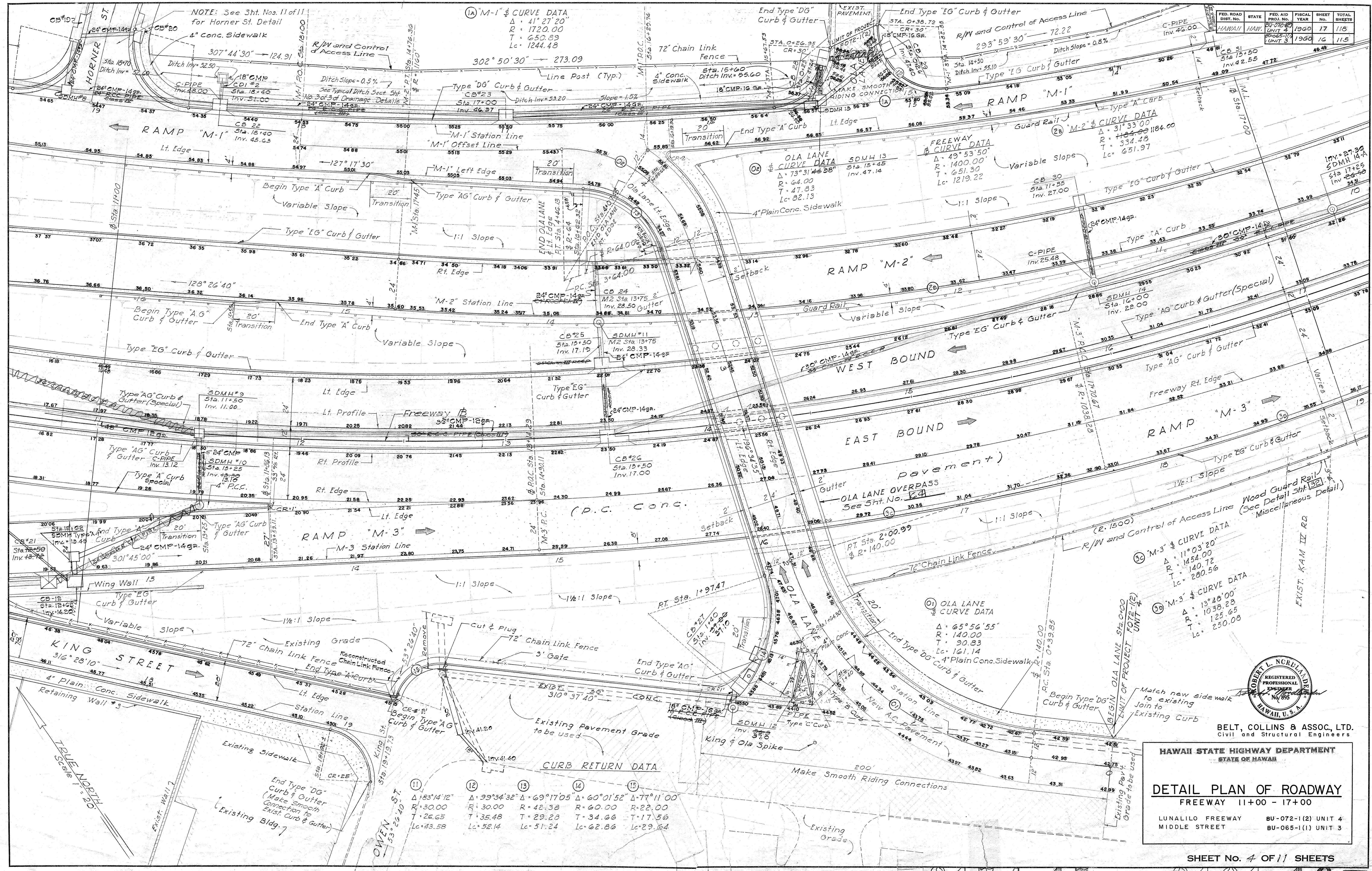
DETAIL PLAN OF ROADWAY

MOANALUA ROAD	US-S-0720(3) UNIT 3
LUNALILO FREEWAY	BU-072-T(2) UNIT 4
MIDDLE STREET	BU-065-T(1) UNIT 3

SHEET No. 3 OF 11 SHEETS

§ 161.15 22

DATE	7-26-66
DESIGNED BY	A. Dugan
TRACED BY	C. B. B. B.
QUANTITIES BY	S. E. B.
CHECKED BY	C. B. B. B.
ORIGINAL PLAN	NO.
NOTE BOOK	NO.



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 Civil and Structural Engineers

HAWAII STATE HIGHWAY DEPARTMENT
 STATE OF HAWAII

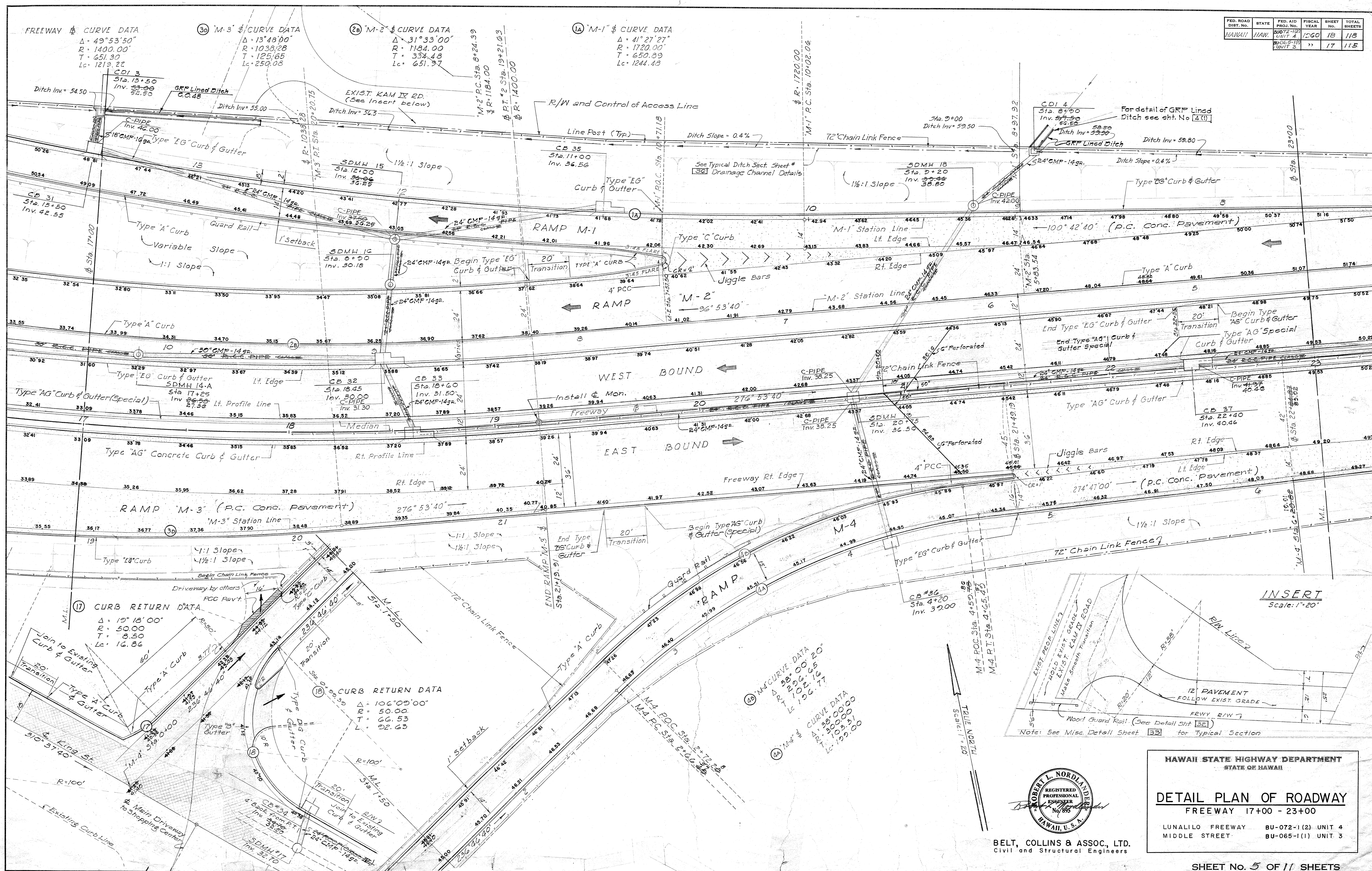
DETAIL PLAN OF ROADWAY
 FREEWAY 11+00 - 17+00

LUNALILO FREEWAY BU-072-1(2) UNIT 4
 MIDDLE STREET BU-065-1(1) UNIT 3

SHEET No. 4 OF 11 SHEETS

8174.17 8161.16 23

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEET
HAWAII	HAW.	BUD72-1(2) UNIT 4.	1960	18	118
		BUD65-1(1) UNIT 3.	"	17	115



HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

DETAIL PLAN OF ROADWAY

FREEWAY 17+00 - 23+00

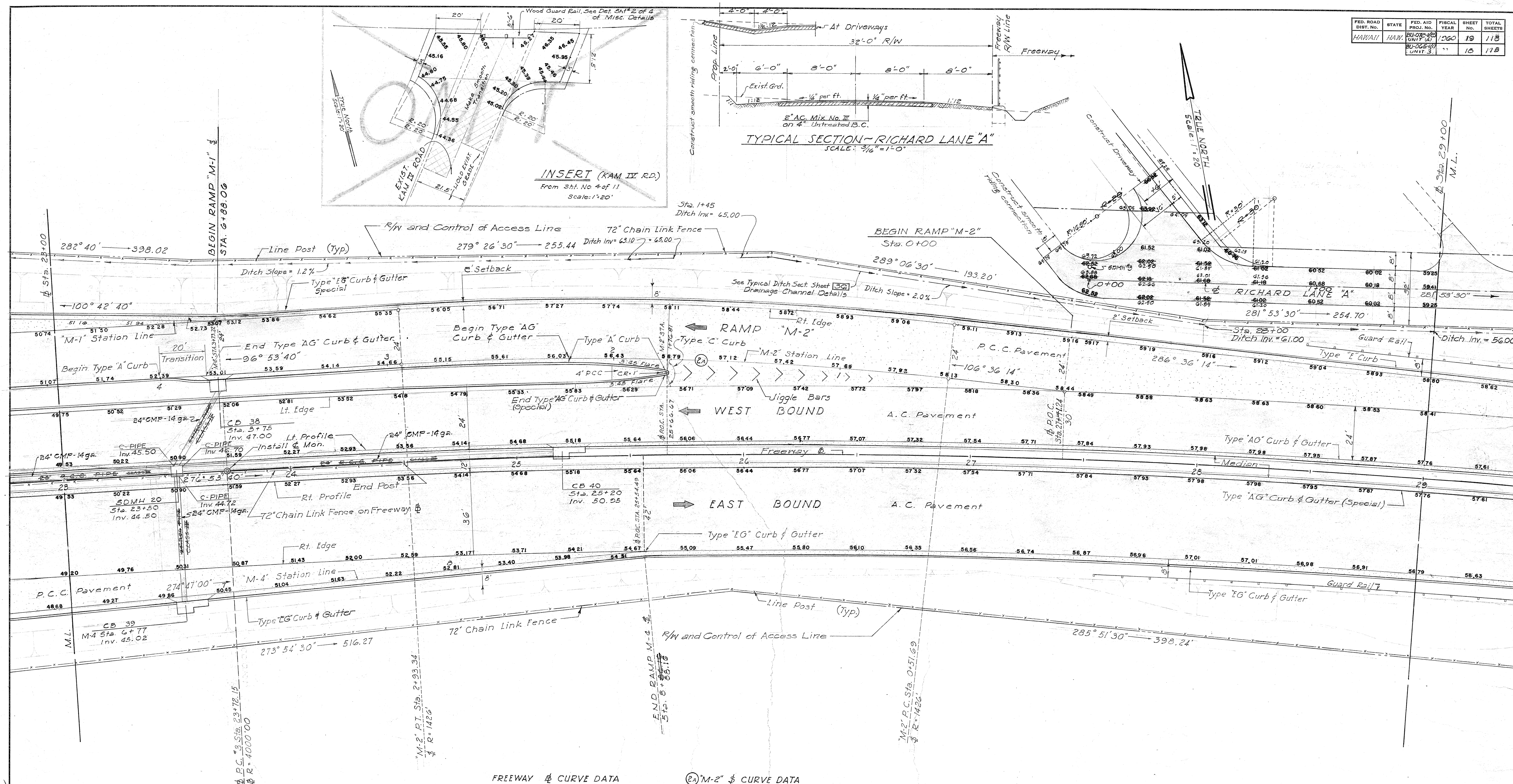
LUNALILO FREEWAY BU-072-1(2) UNIT 4
MIDDLE STREET BU-065-1(1) UNIT 3

SHEET No. 5 OF 11 SHEETS

A circular professional engineer seal for Robert L. Nordlander, No. 895, State of Hawaii. The seal features the text "ROBERT L. NORDLANDER" around the top inner edge and "HAWAII, U.S.A." around the bottom inner edge. In the center, it reads "REGISTERED PROFESSIONAL ENGINEER No. 895". A handwritten signature, "Robert L. Nordlander", is written across the seal.

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-072-1(2)	1960	19	118
		BU-065-1(1)		10	178

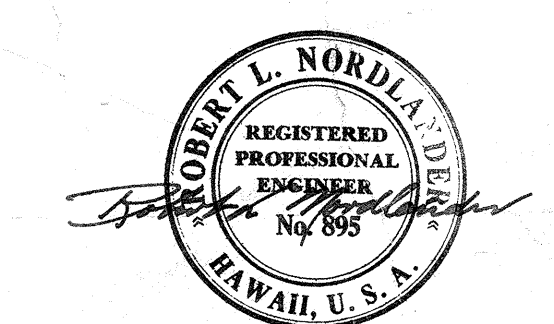


TYPICAL SECTION - RICHARD LANE "A"
SCALE: 3/16" = 1'-0"

INSERT (KAM IV RD.)
From Sht. No. 4 of 11
Scale: 1" = 20'

FREEWAY & CURVE DATA
 $\Delta = 38^{\circ}06'20"$
 $R = 4000.00'$
 $T = 1381.43$
 $L = 2660.27$

M-2" & CURVE DATA
 $\Delta = 9^{\circ}42'34"$
 $R = 1426.00'$
 $T = 121.12$
 $L = 241.65$



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HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

DETAIL PLAN OF ROADWAY
FREEWAY 23+00 - 29+00

LUNALILO FREEWAY BU-072-1(2) UNIT 4
MIDDLE STREET BU-065-1(1) UNIT 3

SHEET NO. 6 OF 11 SHEETS

\$174.19 \$161.18 25

ORIGINAL PLAN	DATE
DESIGNED BY	8-56
DRAWN BY	8-56
CHECKED BY	8-56
QUANTITIES CHECKED BY	8-56
NOTED BY	8-56
NO.	8-56

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-065-1	1960	12	115
		BU-072-1	1960	20	118

TYP. SEC. "A-A"-RICHARD LANE
SCALE: 3/16" = 1'-0"

NOTE: For Typical Section of RICHARD LANE "A", see preceding sheet.

NOTE: For Typical Section of Ditch See Sht. #36 "Drainage Channel Details."

NOT PART OF THIS CONTRACT
PROJ. No. U-072-1 (7)

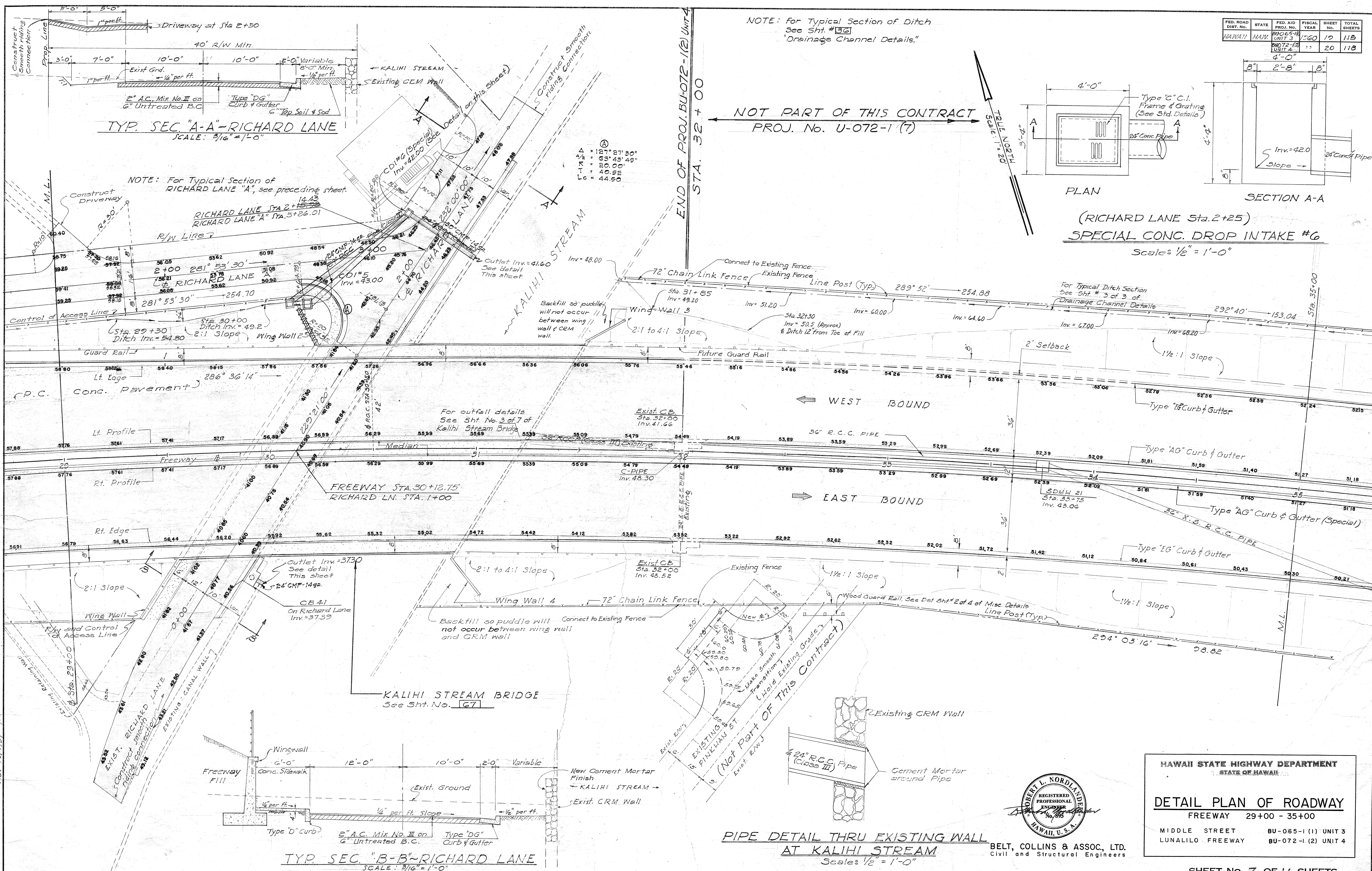
PLAN

SECTION A-A

(RICHARD LANE Sta. 2+25)

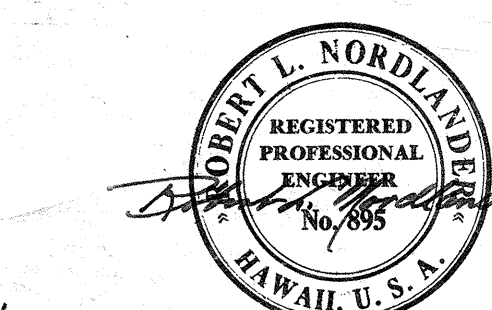
SPECIAL CONC. DROP INTAKE #6

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



TYP. SEC. "B-B"-RICHARD LANE
SCALE: 3/16" = 1'-0"

PIPE DETAIL THRU EXISTING WALL
AT KALIHU STREAM
Scale: 1/2" = 1'-0"



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HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

DETAIL PLAN OF ROADWAY

FREEWAY 29+00 - 35+00

MIDDLE STREET
LUNALILO FREEWAY

BU-065-1 (1) UNIT 3
BU-072-1 (2) UNIT 4

SHEET No. 7 OF 11 SHEETS

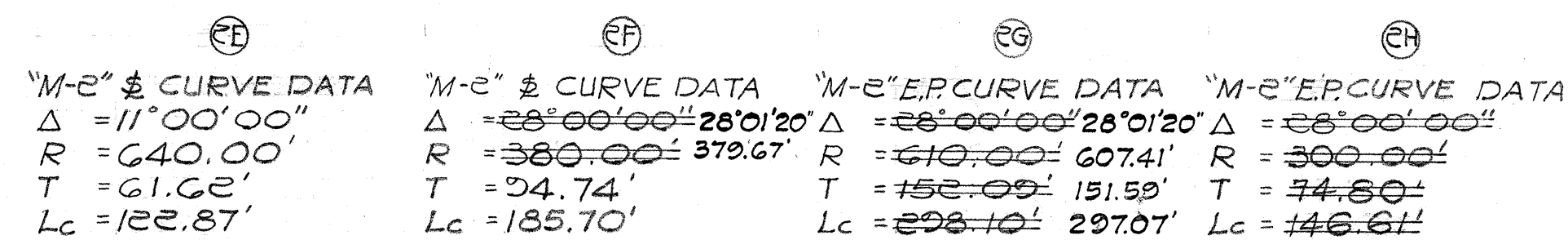
\$174.20

\$161.19

DATE	2-2-60
DESIGNED BY	R. L. Nordlander
DRAWN BY	R. L. Nordlander
CHECKED BY	R. L. Nordlander
NOTED BY	R. L. Nordlander
ORIGINAL PLAN	1
NOTE BOOK	No.

REV 12/19/57-47

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DESIGNED BY _____	" _____
	DRAWN BY _____	" _____
	TRACED BY _____	" _____
NOTE BOOK No. _____	QUANTITIES BY _____	" _____
	QUANTITIES CHECKED BY _____	" _____
	CHECKED BY _____	" _____



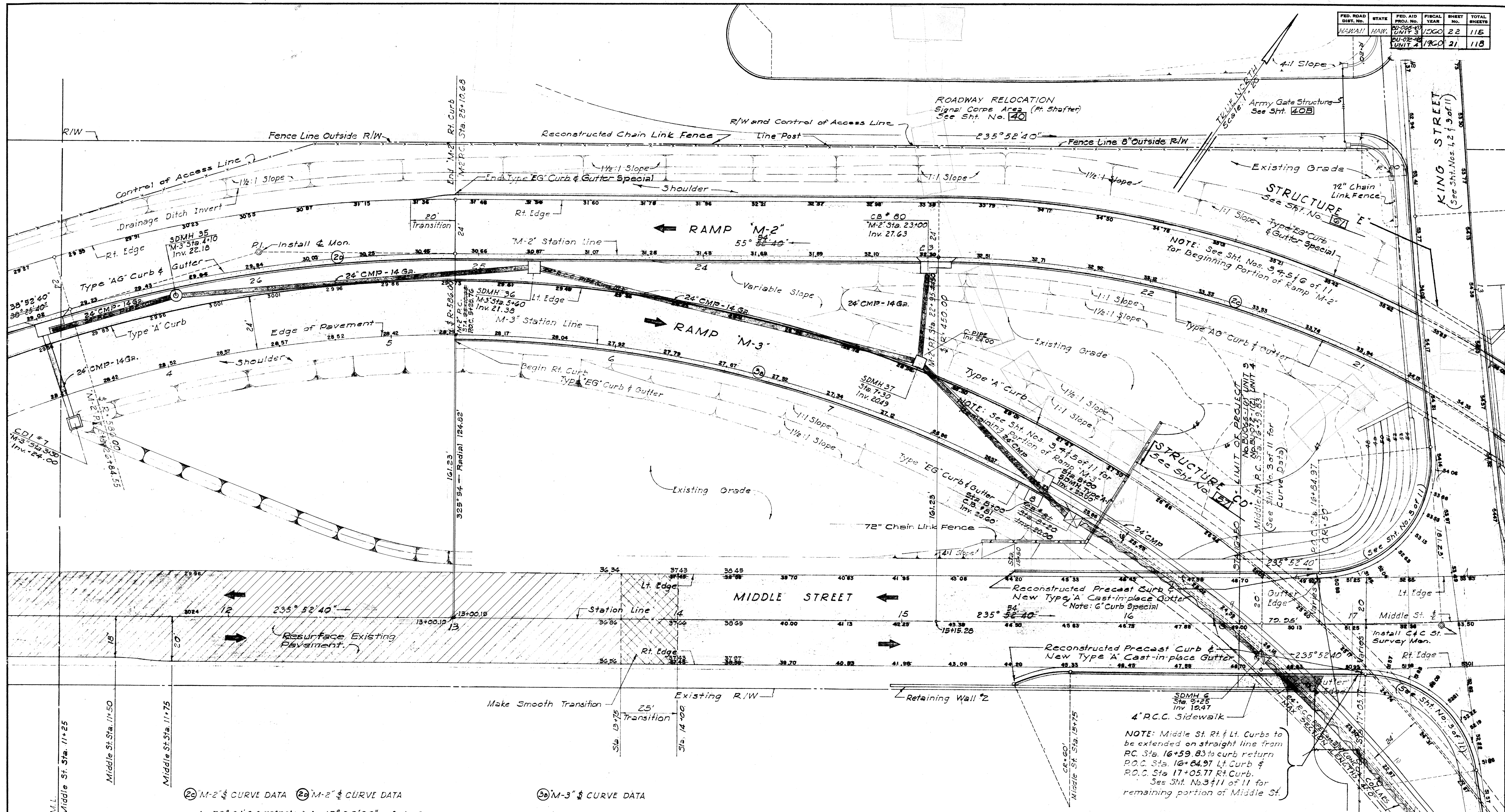
HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

MIDDLE STREET BU-065-1(1) UNIT 3

SHEET No. 8 DELETED
SHEET No. 2 OF 11 SHEETS

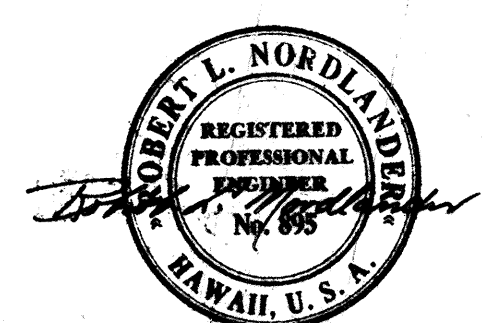
\$ 161.21 ee

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BU-065-1(1) UNIT 3	1960	22	115
		BU-072-1(2) UNIT 4	1960	21	118



②③ M-2" CURVE DATA				②④ M-2" CURVE DATA				②⑤ M-3" CURVE DATA			
Δ = 72° 34' 00"	72° 32' 40"	Δ = 17° 00' 00"	17° 01' 20"	Δ = 72° 34' 00"	72° 32' 40"	Δ = 17° 00' 00"	17° 01' 20"	Δ = 87° 04' 02"			
R = 450.00	450.19	R = 586.00	R = 585.24	R = 450.00	450.19	R = 586.00	R = 585.24	R = 550.00			
T = 330.36	330.36	T = 37.52	T = 87.98	T = 330.36	330.36	T = 37.52	T = 87.98	T = 522.55			
L = 569.94	570.00	L = 73.57	L = 173.87	L = 569.94	570.00	L = 73.57	L = 173.87	L = 835.87			

ORIGINAL PLAN	DATE
NO. 1	11-24
NO. 2	11-24
NO. 3	11-24
NO. 4	11-24
NO. 5	11-24
NO. 6	11-24
NO. 7	11-24
NO. 8	11-24
NO. 9	11-24
NO. 10	11-24
NO. 11	11-24
NO. 12	11-24
NO. 13	11-24
NO. 14	11-24
NO. 15	11-24
NO. 16	11-24
NO. 17	11-24
NO. 18	11-24
NO. 19	11-24
NO. 20	11-24
NO. 21	11-24
NO. 22	11-24
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NO. 97	11-24
NO. 98	11-24
NO. 99	11-24
NO. 100	11-24



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HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

DETAIL PLAN OF ROADWAY
MIDDLE STREET
LUNALILO FREEWAY

BU-065-1(1) UNIT 3
BU-072-1(2) UNIT 4

SHEET NO. 10 OF 11 SHEETS

\$174.21 \$161.22