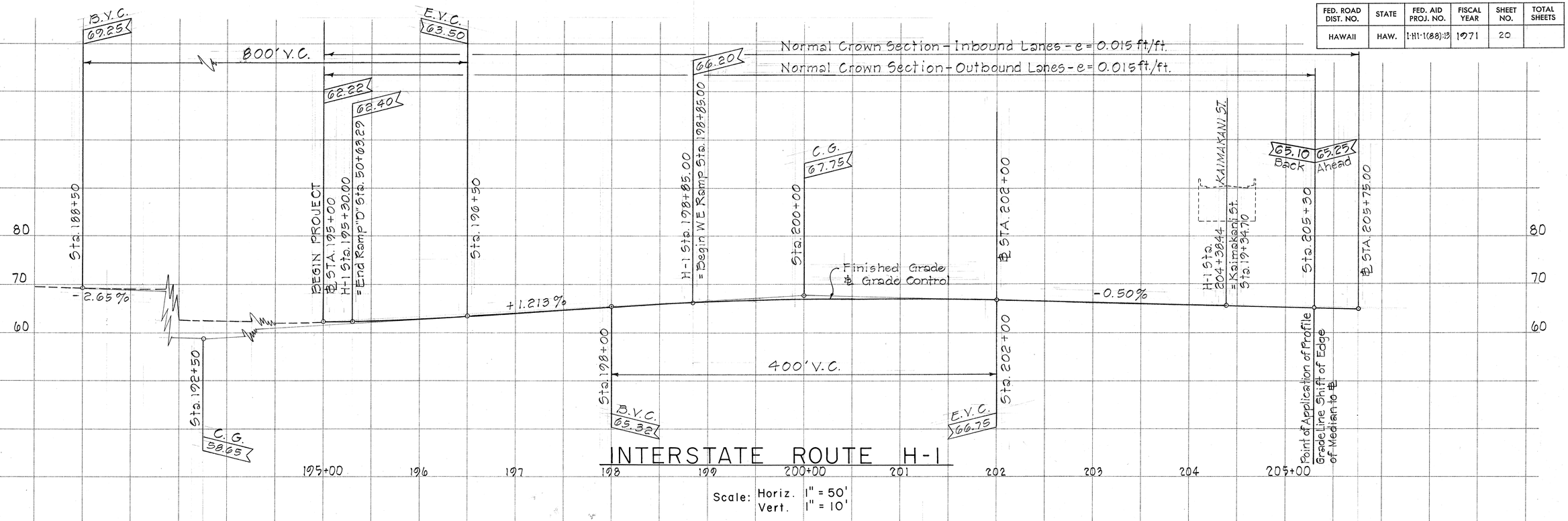
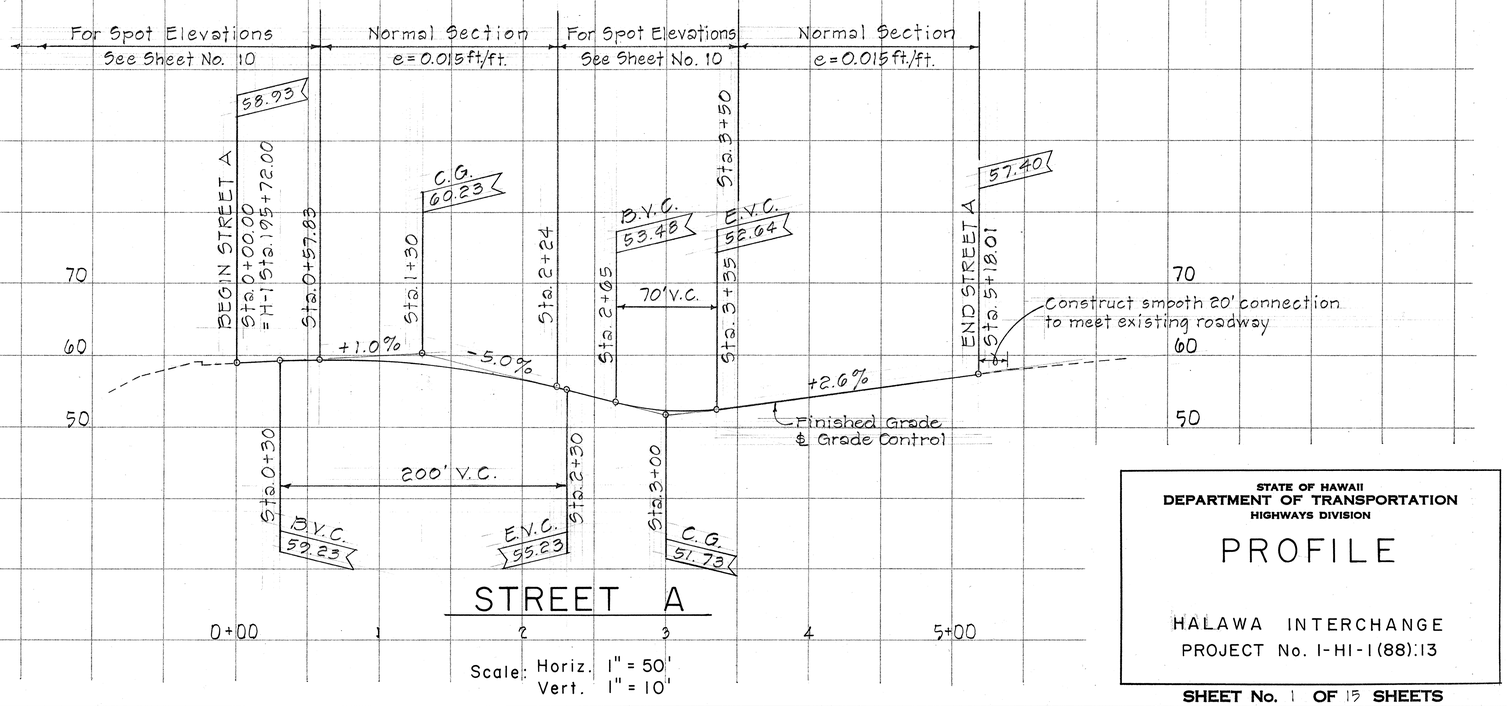
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88)-13	1971	20	



Scale: Horiz. 1" = 50'
Vert. 1" = 10'



Scale: Horiz. 1" = 50'
Vert. 1" = 10'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE

HALAWA INTERCHANGE
PROJECT No. I-HI-1(88):13

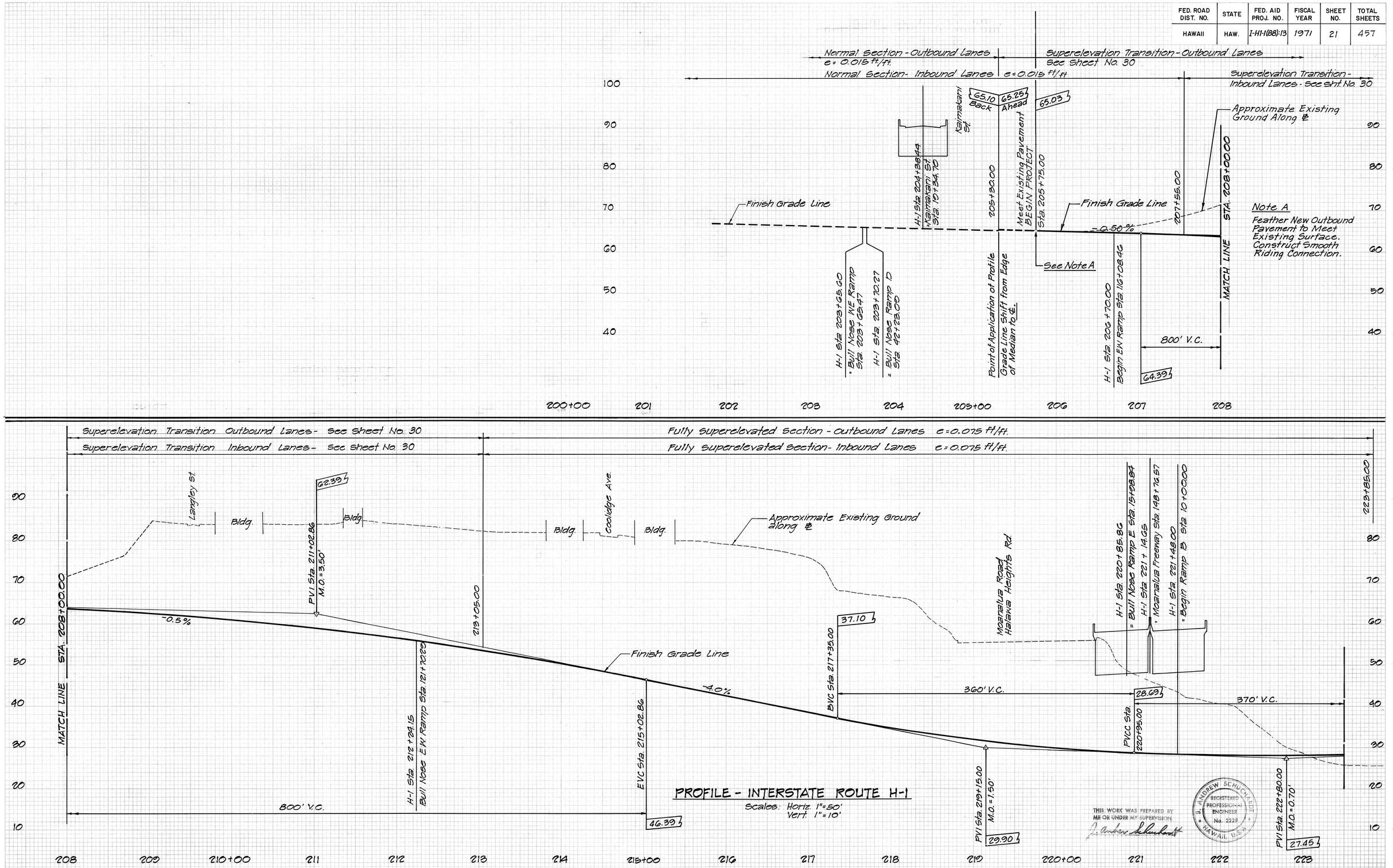
SHEET No. 1 OF 15 SHEETS

20

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

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	21	457



PROFILE - INTERSTATE ROUTE H-1

Scales: Horiz. 1"=50'
Vert. 1"=10'

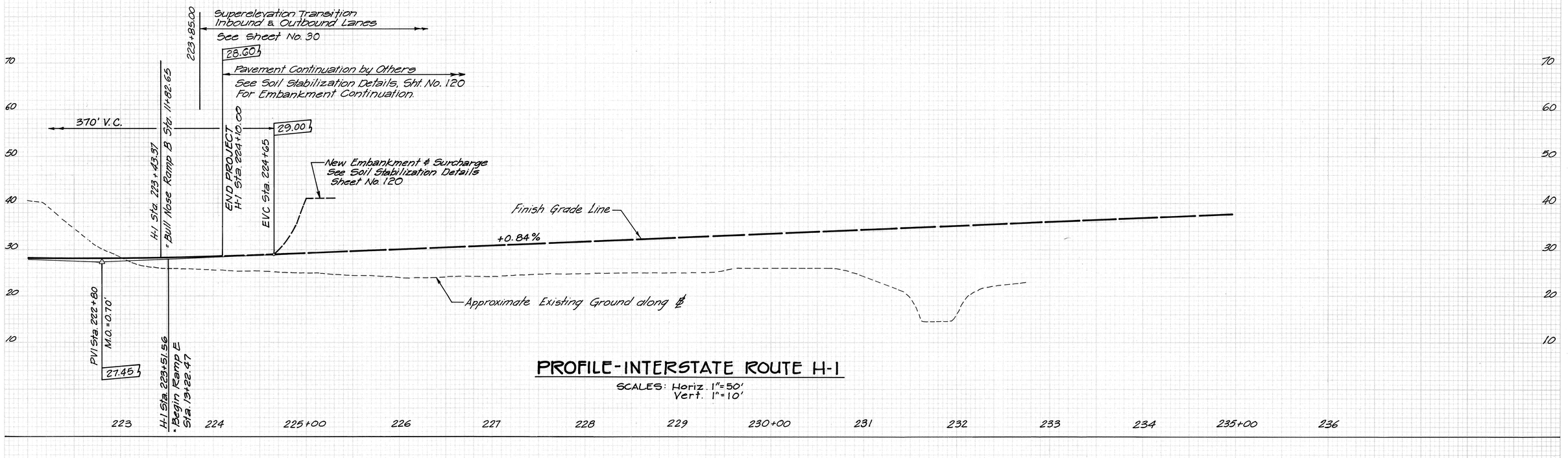
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
J. Andrew Schuchardt

ANDREW SCHUCHARDT — REGISTERED PROFESSIONAL ENGINEER — No. 2229 — HAWAII, U.S.A.

SHEET No. 2 OF 15 SHEETS 21

PLATE 3 —CROSS SECTION O. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	22	457



PROFILE-INTERSTATE ROUTE H-1

SCALES: Horiz. 1"=50'
Vert. 1"=10'

FINAL SURVEY — DRAWN, PLOTTED, TEMPLATE, AREA, AREAS CHECKED, DATE, BY, NOTE BOOK, PAGE, NO.

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREA, AREAS CHECKED, DATE, BY, NOTE BOOK, PAGE, NO.

J. ANDREW SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 3 OF 15 SHEETS

PLATE 3 —CROSS SECTION U. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88);13	1971	23	457

Superelevation Transition Inbound & Outbound Lanes. See Ramp C Terminal Detail's Sht. No. 30 for Elevations at E.P.

BEGIN PROJECT
Begin Moanalua Freeway Sta. 137+74.80
Meet existing pavement

Moanalua Freeway Sta. 120+40.00
Begin Ramp C Sta. 101+00.00

Moanalua Freeway
Sta. 142+16.13
= NE Ramp Sta. 216+74.00

Normal Section - Outbound Lanes
e = 0.015 ft/ft

Superelevation Transition
Outbound Lanes See Sheet No. 31

Fully Superelevated
Section - Outbound Lanes e=0.06 ft/ft

Normal Section
Inbound Lanes e=0.015 ft/ft

Superelevation Transition
Inbound Lanes See Sheet No. 31

Fully Superelevated
Section - Inbound Lanes e=0.06 ft/ft

147+95.00

-0.50 %

-1.85 %

Approx. Existing Ground along ℄

Finish Grade Line

BVC Sta. 138+45.00

76.16

380' V.C.

70.70

EVC Sta. 142+25.00

PVI Sta. 140+36.00
MO = 0.64'

74.21

Moanalua Freeway Sta. 140+23.32
= Bull Nose Ramp C Sta. 11+14.26

Moanalua Freeway Sta. 146+02.73
= Bull Nose Ramp B Sta. 22+44.74

146+15.00

Moanalua Freeway Sta. 147+36.00
= End Ramp B Sta. 23+77.86

Moanalua Freeway Sta. 148+76.57
= H-1 Sta. 221+14.65

Moanalua Freeway Sta. 149+20.27
= Ramp E Sta. 15+25.03

150+18.00

Moanalua Freeway Sta. 150+10.00
= End Ramp E Sta. 30+34.06

Moanalua Freeway Sta. 151+17.73
= Bull Nose Ramp E Sta. 28+80.68

MATCH LINE STA. 152+00.00

PROFILE - MOANALUA FREEWAY

Scales: Horiz. 1"=50'
Vert. 1"=10'

Fully Superelevated Section Outbound Lanes e=0.06 ft/ft.
Fully Superelevated Section Inbound Lanes e=0.06 ft/ft.

Superelevation Transition Outbound Lanes See Sht No. 31

Superelevation Transition Inbound Lanes See Sheet No. 31

Normal Section Outbound Lanes e=0.015 ft/ft.

Normal Section Inbound Lanes e=0.015 ft/ft.

Superelevation Transition Outbound Lanes See Sheet No. 31

Superelevation Transition Outbound Lanes See Sheet No. 31

MATCH LINE STA. 152+00.00

44.33

157+15.00

400' V.C.

160+40.00

47.08

161+90.00

163+45.00

164+95.00

61.50

166+22.00

66.09

END PROJECT
MOANALUA FREEWAY
℄ Sta. 168+05.00

BVC Sta. 152+15.00

Moanalua Freeway Sta. 152+31.10
= Begin Ramp J Sta. 10+00.00

EVC Sta. 160+50.00

Moanalua Freeway Sta. 152+28.23
= Ramp EW Sta. 138+21.45

Moanalua Freeway Sta. 160+56.30
= Bull Nose Ramp J Sta. 11+41.00

Moanalua Freeway Sta. 164+08.68
= Bull Nose Ramp D Sta. 13+00.88

PVI Sta. 165+05.00
M.O. = 0.48'

Moanalua Freeway Sta. 166+21.02
= Bull Nose Ramp H Sta. 10+49.20

Moanalua Freeway Sta. 167+83.93
= End Ramp H Sta. 17+58.04

-1.85 %

+3.20 %

+1.50 %

Finish Grade Line

13'-0" wide x 7'-0" high
Halawa Hts. Stream Box Culvert

Approximate Existing Ground along ℄

PVI Sta. 158+50.00
M.O. = 2.58'

40.63

BVC Sta. 163+90.00

57.01

EVC Sta. 166+22.00

63.32

230' V.C.

PROFILE - MOANALUA FREEWAY

Scales: Horiz. 1"=50'
Vert. 1"=10'

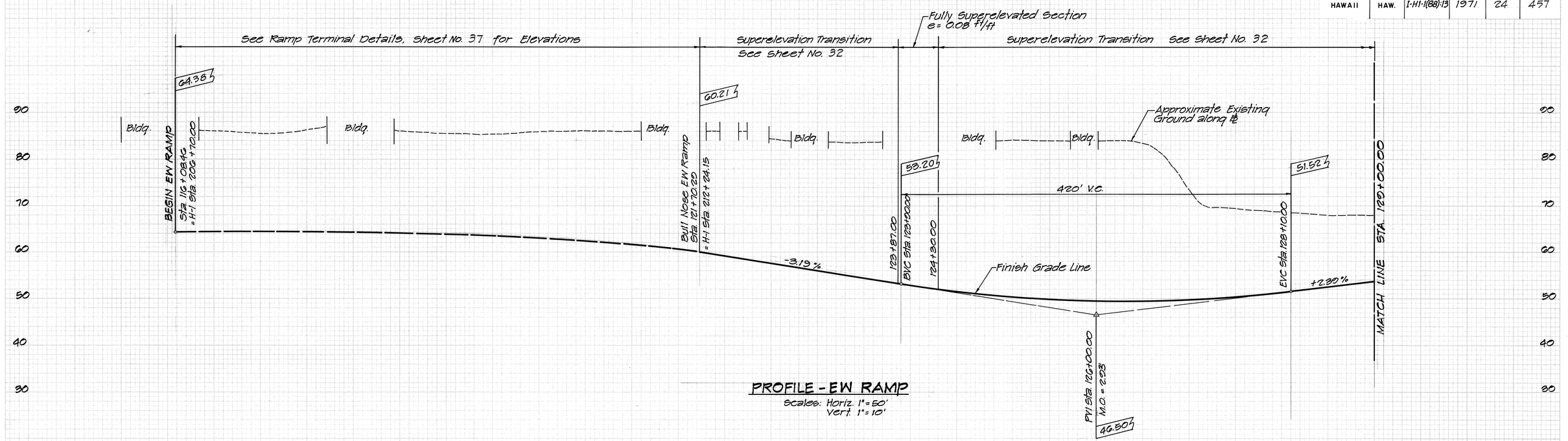
J. ANDREW SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 4 OF 15 SHEETS

PLATE 3 —CROSS SECTION U. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	24	457



PROFILE - EW RAMP

Scales: Horiz. 1"=50'
Vert. 1"=10'

PROFILE - EW RAMP

Scales: Horiz. 1"=50'
Vert. 1"=10'

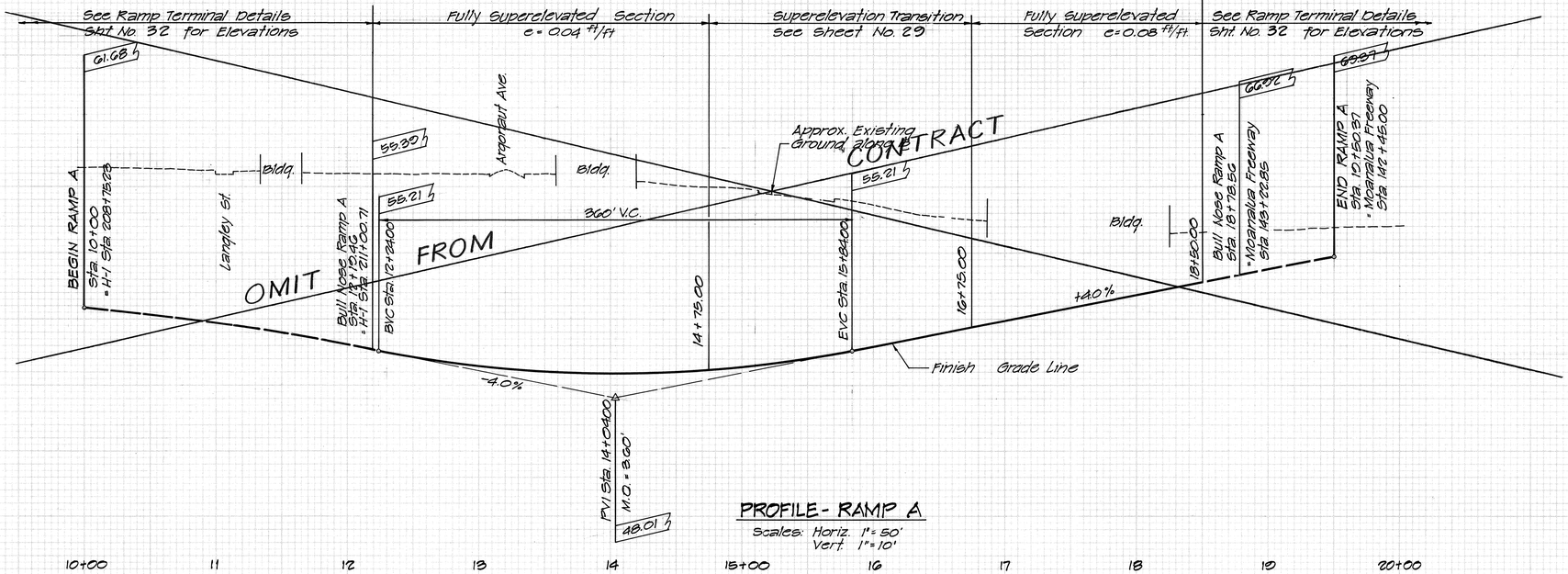
J. A. YOUNG SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

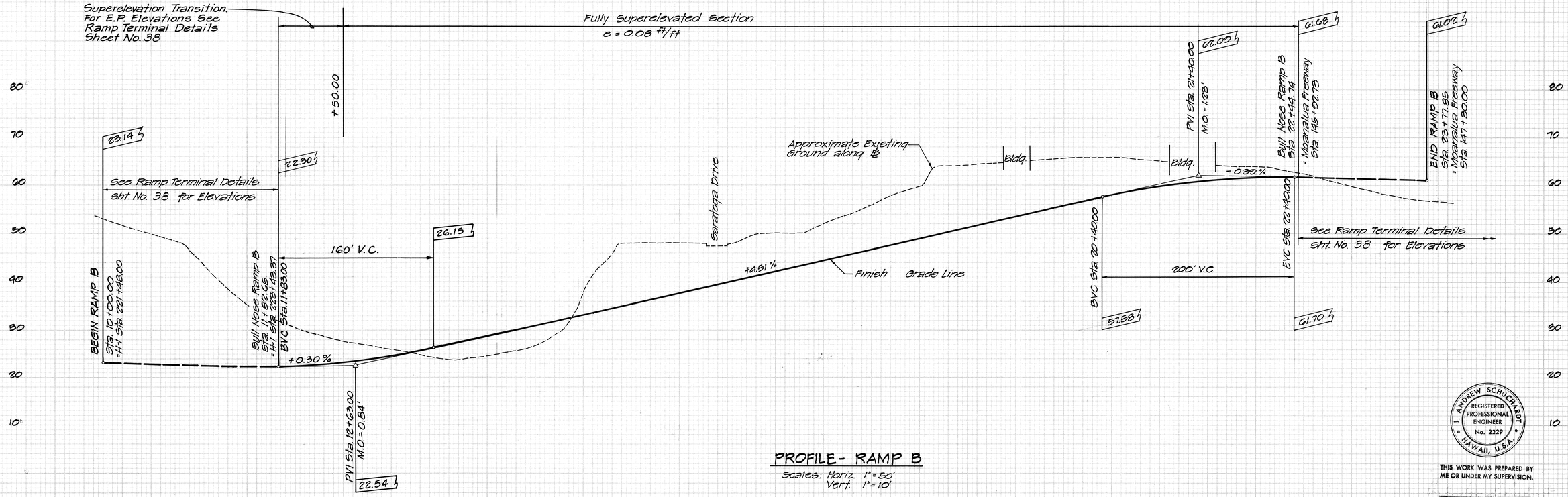
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 5 OF 15 SHEETS

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AS-BUILT, AREAS CHECKED, DATE, BY, NOTE BOOK, NO.
ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AS-BUILT, AREAS CHECKED, DATE, BY, NOTE BOOK, NO.
PLATE 3 —CROSS SECTION U. P. R. & R. E. STANDARD THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	25	457





J. ANDREW SCHLICHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

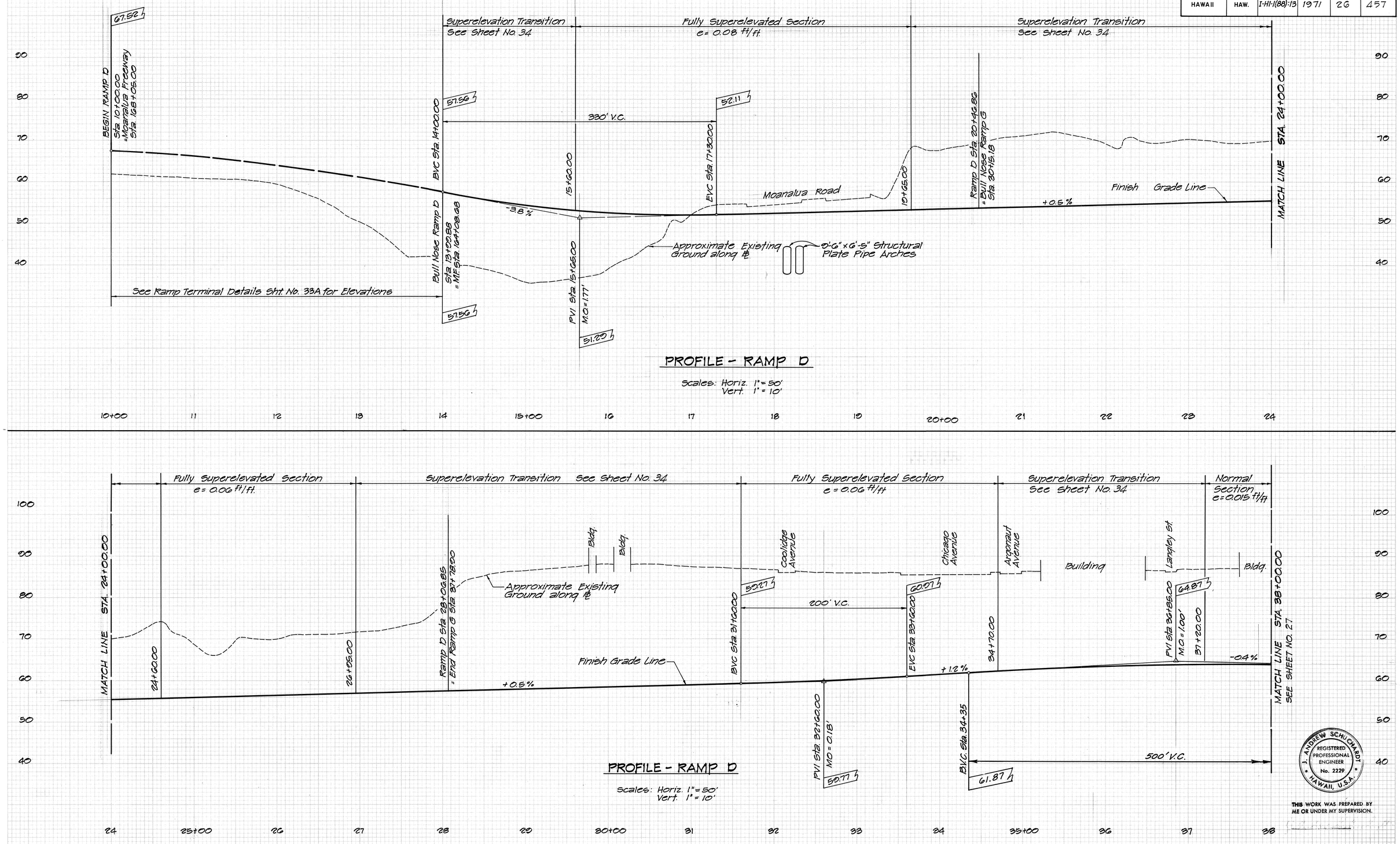
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 6 OF 15 SHEETS

25

FINAL SURVEY — SURVEYED, PLOTTED, TRACED, AREA, AREAS CHECKED, DATE, BY
ORIGINAL SURVEY — SURVEYED, PLOTTED, TRACED, AREA, AREAS CHECKED, DATE, BY
PLATE 3 —CROSS SECTION O. P. K. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	26	457



PROFILE - RAMP D

Scales: Horiz. 1" = 50'
Vert. 1" = 10'

PROFILE - RAMP D

Scales: Horiz. 1" = 50'
Vert. 1" = 10'

J. ANDREW SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 7 OF 15 SHEETS 26

PLATE 3 —CROSS SECTION U. P. R. A. & E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	27	457

Normal Section e = 0.015 ft/ft

Bldg. — Bldg.

Finish Grade Line

-0.4%

MATCH LINE STA. 38+00.00 SEE SHEET 26

63.63

Sta. 40+20.00

63.87

EVC Sta. 39+35

500' V.C.

63.77

BVC Sta. 39+60.00

PVI Sta. 40+60.00
M.O. = 0.28'

63.37

200' V.C.

64.07

EVC Sta. 41+60.00

Ramp D
Sta. 41+57.56
= Kaimakani St.
Sta. 20+22.23

+0.7%

69.51

Bull Nose Ramp D
Sta. 42+23.00
= H-1 Sta. 203+70.27

63.06

END RAMP D
Sta. 50+63.20
= H-1 Sta. 195+30.00

PROFILE - RAMP D

Scales: Horiz. 1" = 50'
Vert. 1" = 10'

38 | 39 | 40+00 | 41 | 42 | 43 | 44 | 45+00 | 46 | 47 | 48 | 49 | 50+00

100 | 90 | 80 | 70 | 60 | 50 | 40

See Ramp Terminal Details Sht. 40 for Elevations

33.56

BEGIN RAMP E
Sta. 13+22.47
= H-1 Sta. 223+51.56

Ramp E Sta. 15+85.03
= Moanalua Freeway
Sta. 140+20.27

33.21

Normal Section e = 0.015 ft/ft

16+20.00

Bull Nose Ramp E
Sta. 15+28.84
= H-1 Sta. 220+88.86

Superelevation Transition
See Sheet No. 33

18+70.00

Fully Superelevated Section e = 0.08 ft/ft

BVC Sta. 16+00.00

+0.80%

PVI Sta. 17+00.00
M.O. = 0.18'

34.02

200' V.C.

33.22

EVC Sta. 18+00.00

35.52

+1.50%

Approximate Existing Ground along ℄

43.02

PVI Sta. 23+00.00
M.O. = 0.21'

Finish Grade Line

+0.66%

BVC Sta. 22+00.00

41.52

200' V.C.

43.68

EVC Sta. 24+00.00

BVC Sta. 26+60.00

45.33

200' V.C.

48.00

EVC Sta. 28+60.00

Bull Nose Ramp E Sta. 28+82.88
= Moanalua Freeway
Sta. 151+11.78

49.92

+3.00%

PVI Sta. 27+60.00
M.O. = 0.58'

45.00

54.01

See Ramp Terminal Details Sht. No. 40 for Elevations

END RAMP E
Sta. 30+34.06
= Moanalua Freeway Sta. 150+10.00

PROFILE - RAMP E

Scales: Horiz. 1" = 50'
Vert. 1" = 10'

13+00 | 15+00 | 16 | 17 | 18 | 19 | 20+00 | 21 | 22 | 23 | 24 | 25+00 | 26 | 27 | 28 | 29 | 30+00

70 | 60 | 50 | 40 | 30 | 20

J. ANDREW SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

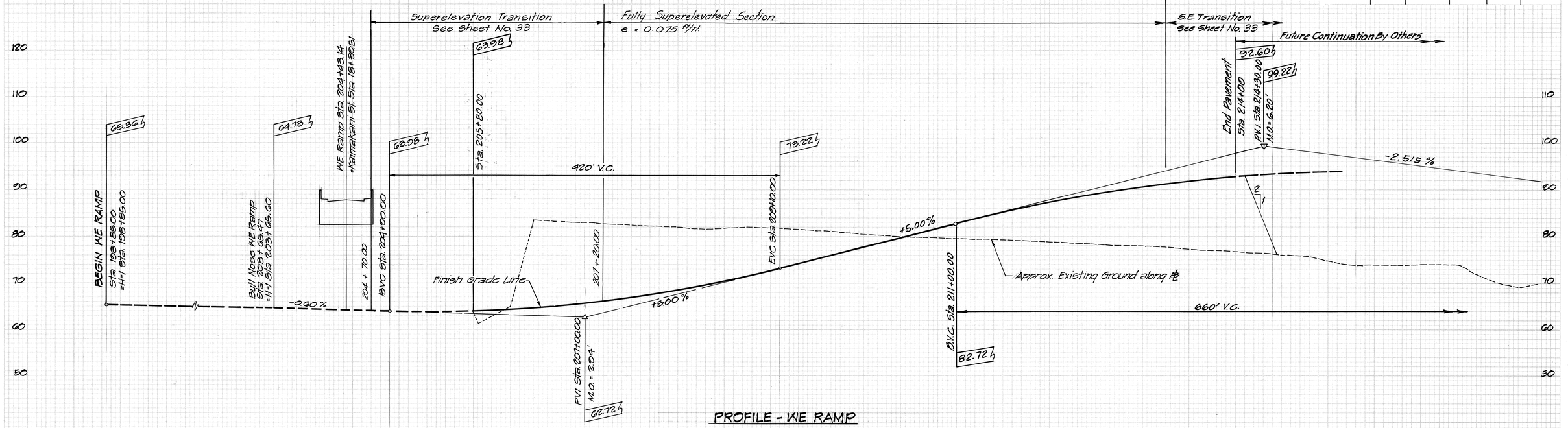
FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, AREA CHECKED, NO., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, AREA CHECKED, NO., BY, DATE

SHEET No. 8 OF 15 SHEETS 27

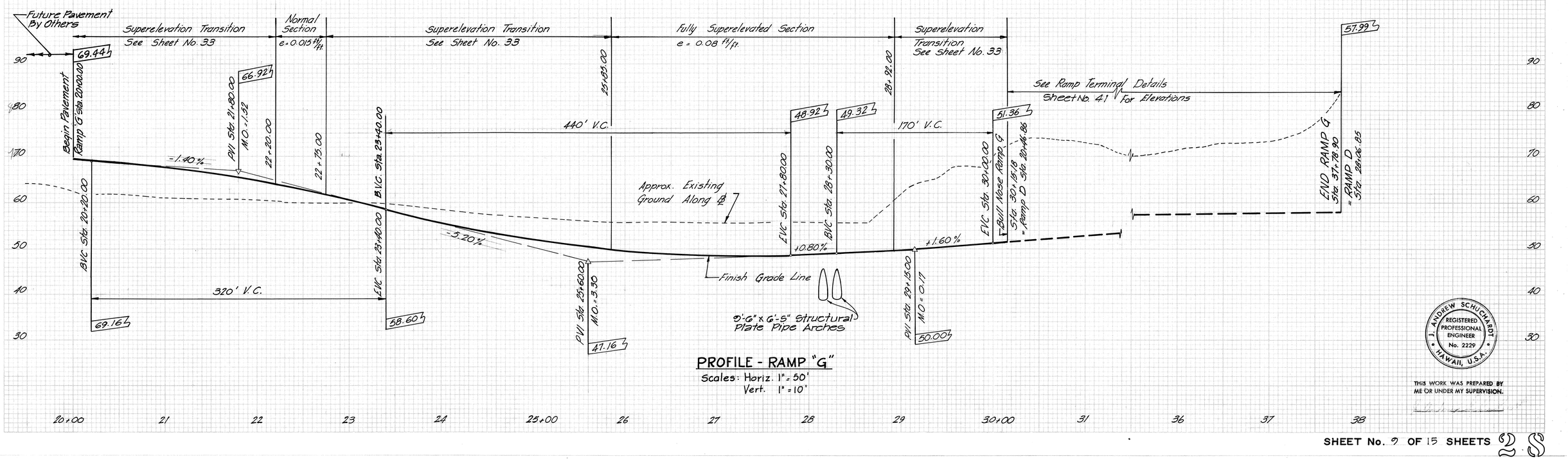
PLATE 3 — CROSS SECTION U. P. R. R. & N. E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	28	457



PROFILE - WE RAMP

Scale: Horiz. 1"=50'
Vert. 1"=10'



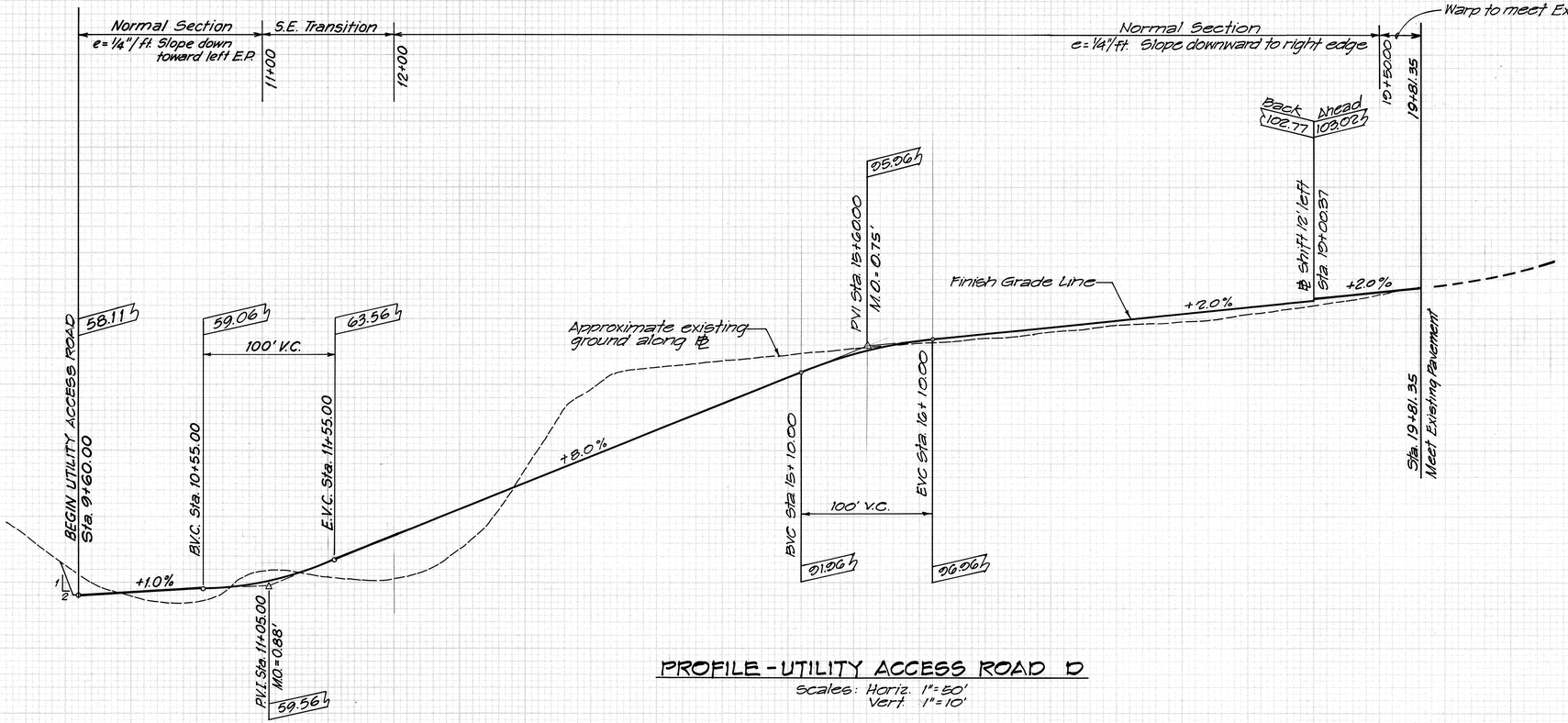
PROFILE - RAMP "G"

Scales: Horiz. 1"= 50'
Vert. 1" = 10'

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

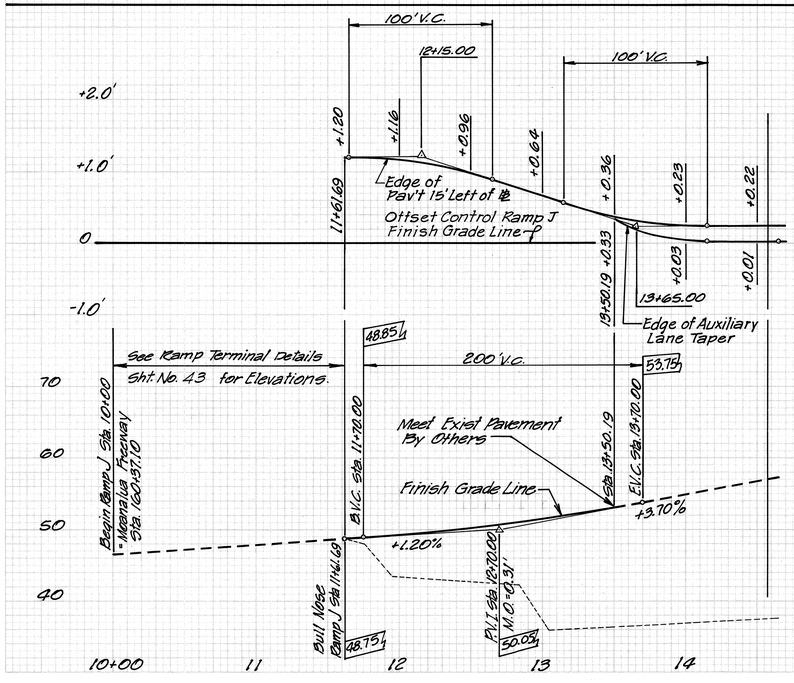
PLATE 3 —CROSS SECTION O. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	29	457



PROFILE - UTILITY ACCESS ROAD D

Scales: Horiz. 1"=50'
Vert. 1"=10'



SUPERELEVATION DIAGRAM - RAMP J

Scales: Horiz. 1"=50'
Vert. 1"=1'

PROFILE - RAMP J

Scales: Horiz. 1"=50'
Vert. 1"=10'

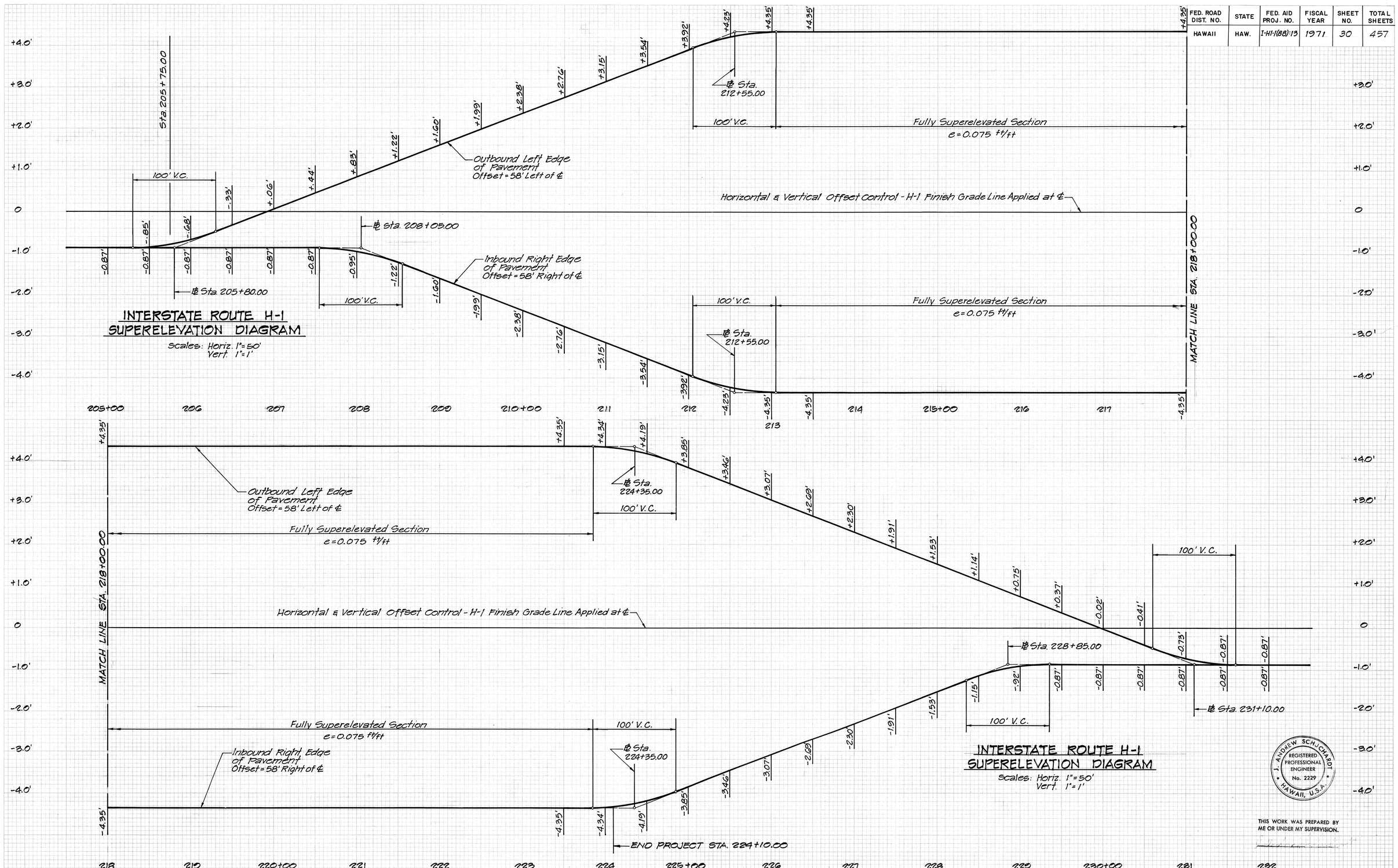
J. ANDREW SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 10 OF 15 SHEETS

PLATE 3 —CROSS SECTION G. P. R. & R. S. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88)-13	1971	30	457



INTERSTATE ROUTE H-1
SUPERELEVATION DIAGRAM

Scales: Horiz. 1"=50'
Vert. 1"=1'

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, DATE, BY, NO.

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, DATE, BY, NO.

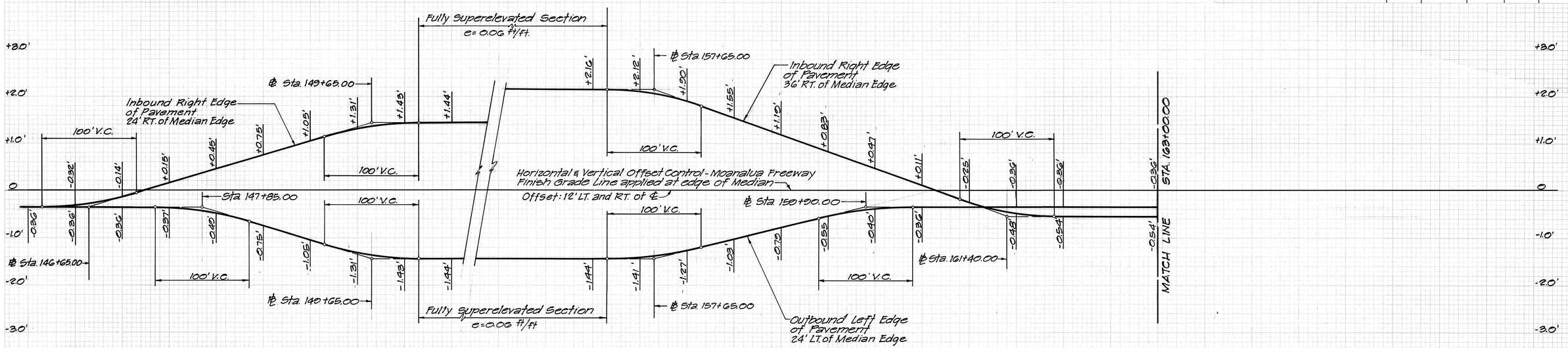
J. ANDREW SCHLICHTER
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 11 OF 15 SHEETS

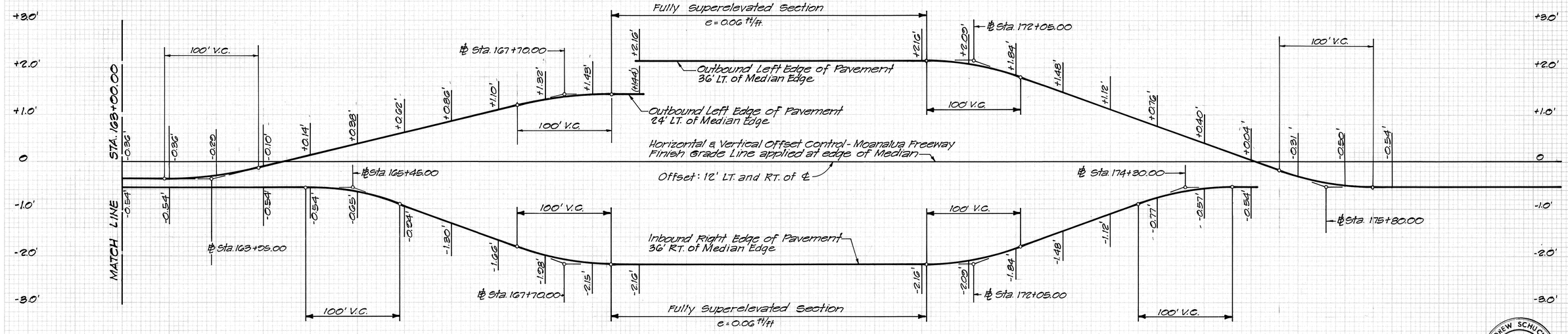
PLATE 3 —CROSS SECTION U. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88)13	1971	31	437



MOANALUA FREEWAY - SUPERELEVATION DIAGRAM

Scales: Horiz. 1"=50'
Vert. 1"=1'



MOANALUA FREEWAY - SUPERELEVATION DIAGRAM

Scales: Horiz. 1"=50'
Vert. 1"=1'

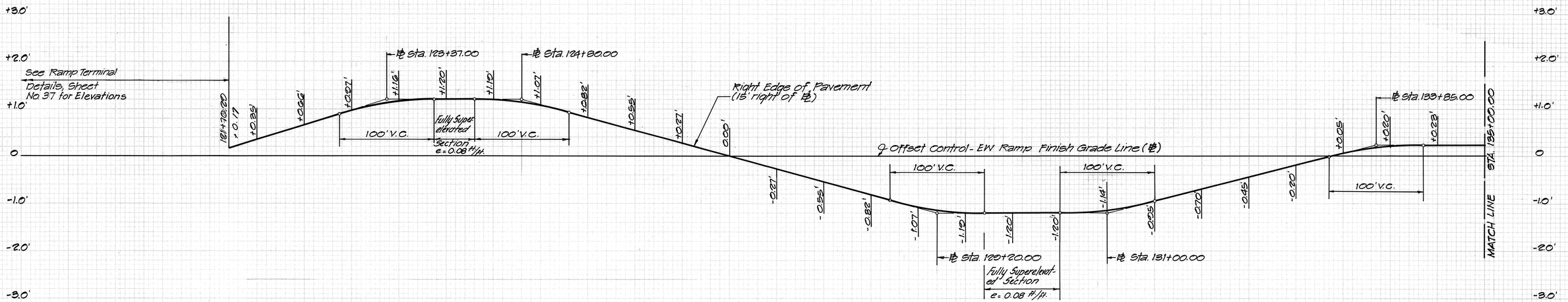
J. ANDREW SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 12 OF 15 SHEETS 31

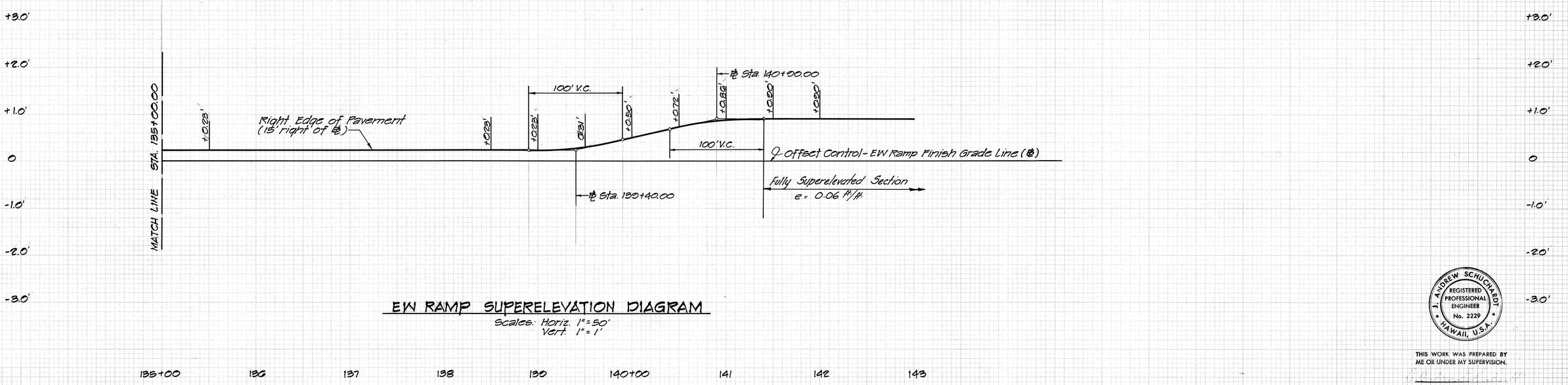
PLATE 3 —CROSS SECTION U. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	32	457



EW RAMP SUPERELEVATION DIAGRAM

Scales: Horiz. 1"=50'
Vert. 1"=1'



EW RAMP SUPERELEVATION DIAGRAM

Scales: Horiz. 1"=50'
Vert. 1"=1'

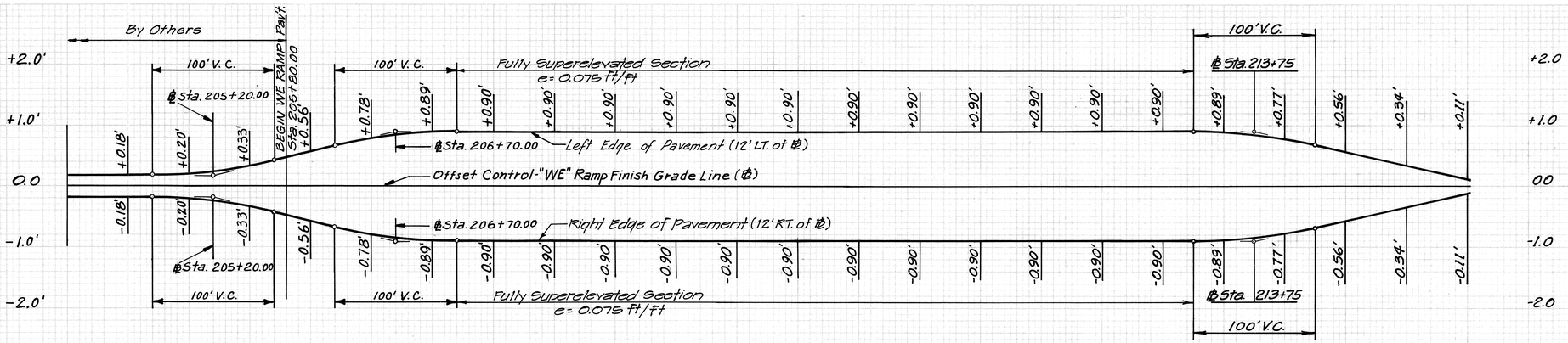
J. ANDREW SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 13 OF 15 SHEETS

PLATE 3 —CROSS SECTION U. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

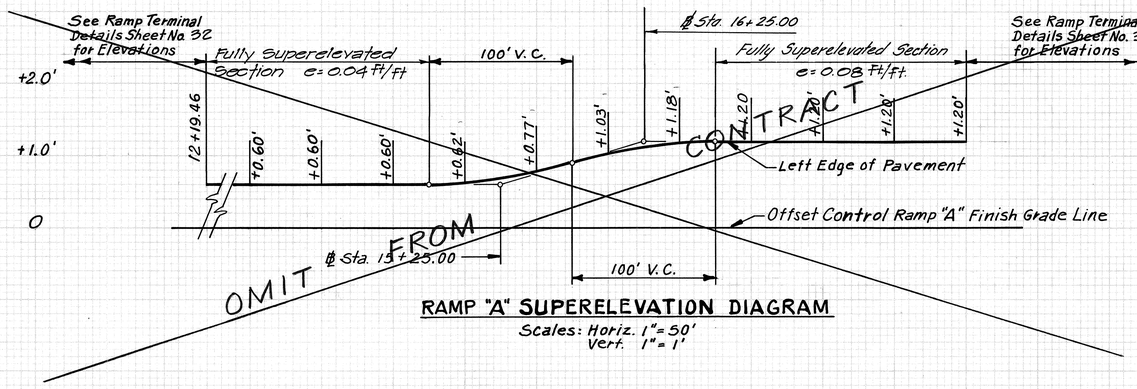
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	33	457



"WE" RAMP SUPERELEVATION DIAGRAM

Scale: Horiz. 1"=50'
Vert. 1"=1'

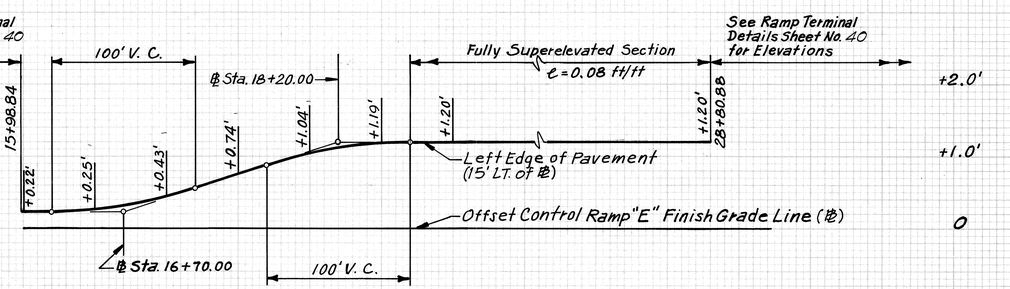
204 205+00 206 207 208 209 210 211 212 213 214 215 216+00



RAMP "A" SUPERELEVATION DIAGRAM

Scales: Horiz. 1"=50'
Vert. 1"=1'

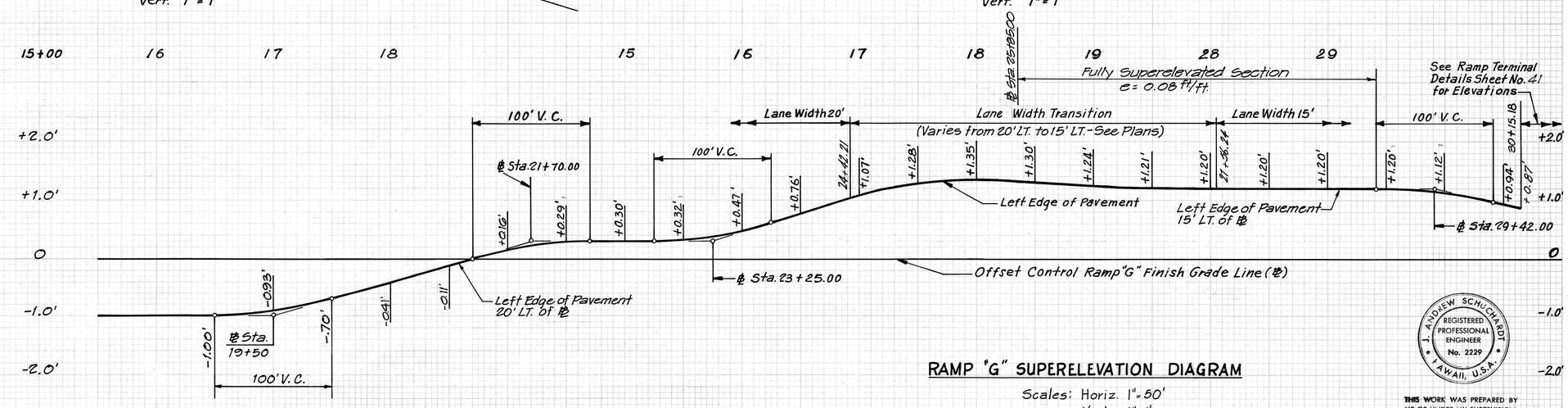
12 14 15+00 16 17 18



RAMP "E" SUPERELEVATION DIAGRAM

Scales: Horiz. 1"=50'
Vert. 1"=1'

12 14 15+00 16 17 18 15 16 17 18 19 28 29



RAMP "G" SUPERELEVATION DIAGRAM

Scales: Horiz. 1"=50'
Vert. 1"=1'

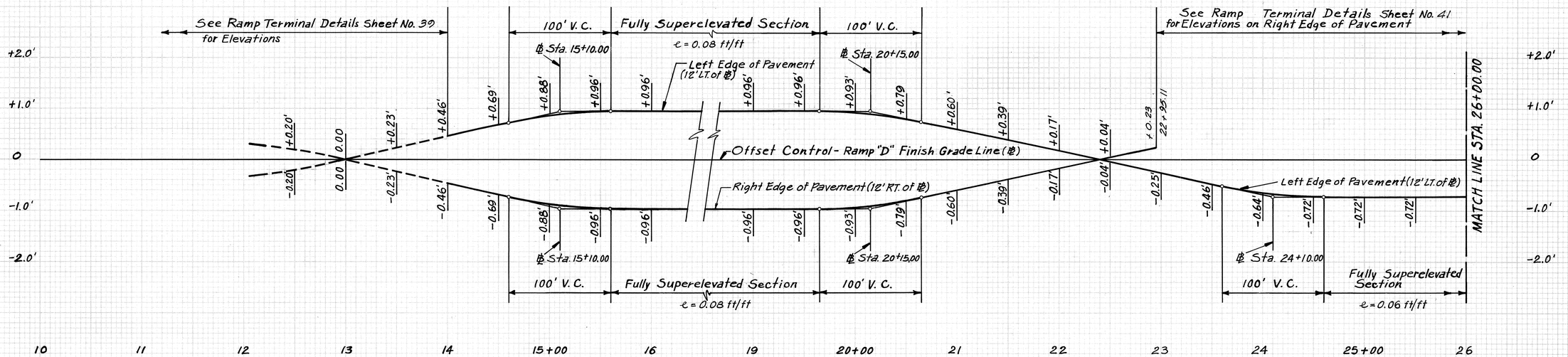
18 19 20+00 21 22 23 24 25+00 26 27 28 29 30+00

J. ANDREW SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

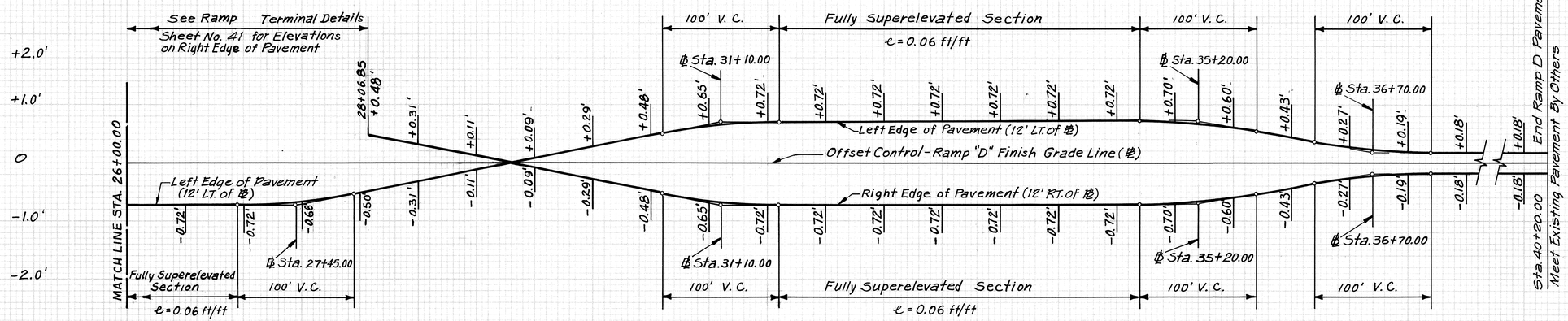
PLATE 3 —CROSS SECTION U. P. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88)13	1971	34	457



RAMP "D" SUPERELEVATION DIAGRAM

Scales: Horiz. 1"= 50'
Vert. 1"= 1'



RAMP "D" SUPERELEVATION DIAGRAM

Scales: Horiz. 1"= 50'
Vert. 1"= 1'

ANDREW SCHUCHARDT
REGISTERED PROFESSIONAL ENGINEER
No. 2229
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHEET No. 15 OF 15 SHEETS

PLATE 3 —CROSS SECTION U. P. R. R. & R. E. STANDARD
THE FREDERICK POST CO., CHICAGO