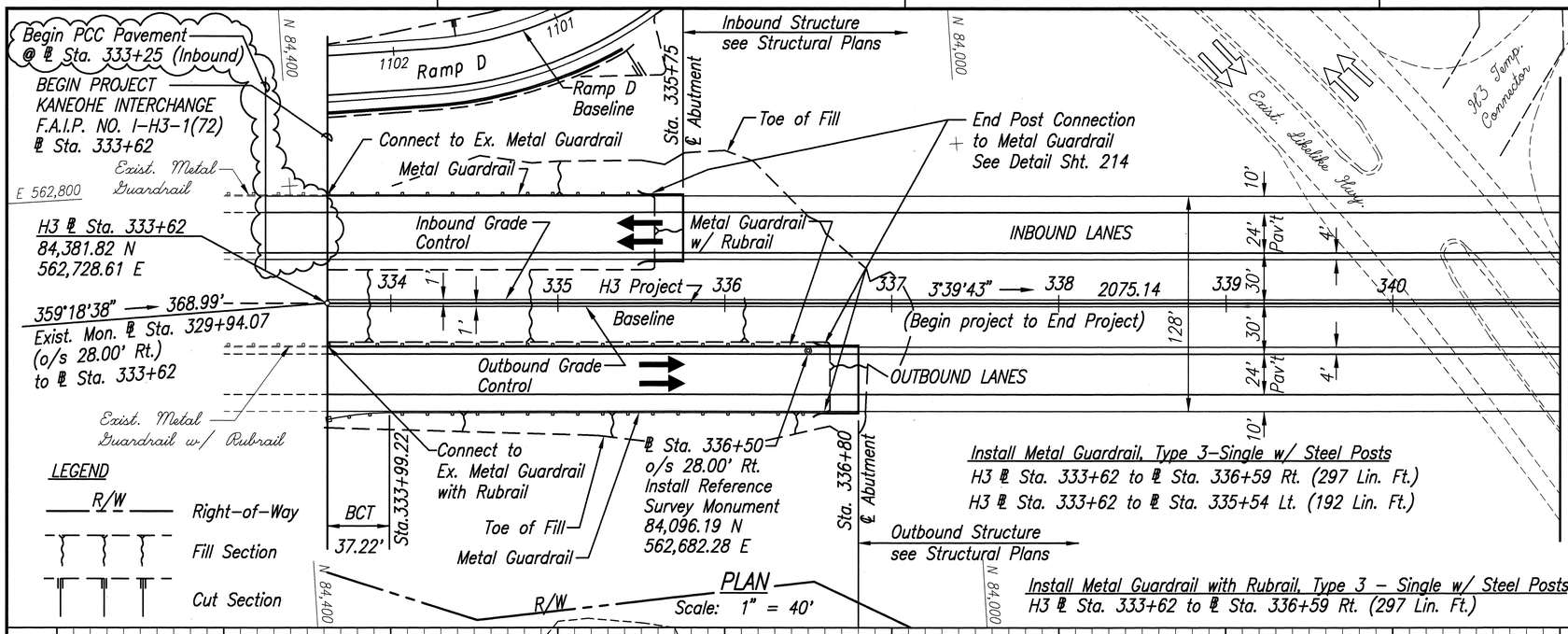
FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 12	521

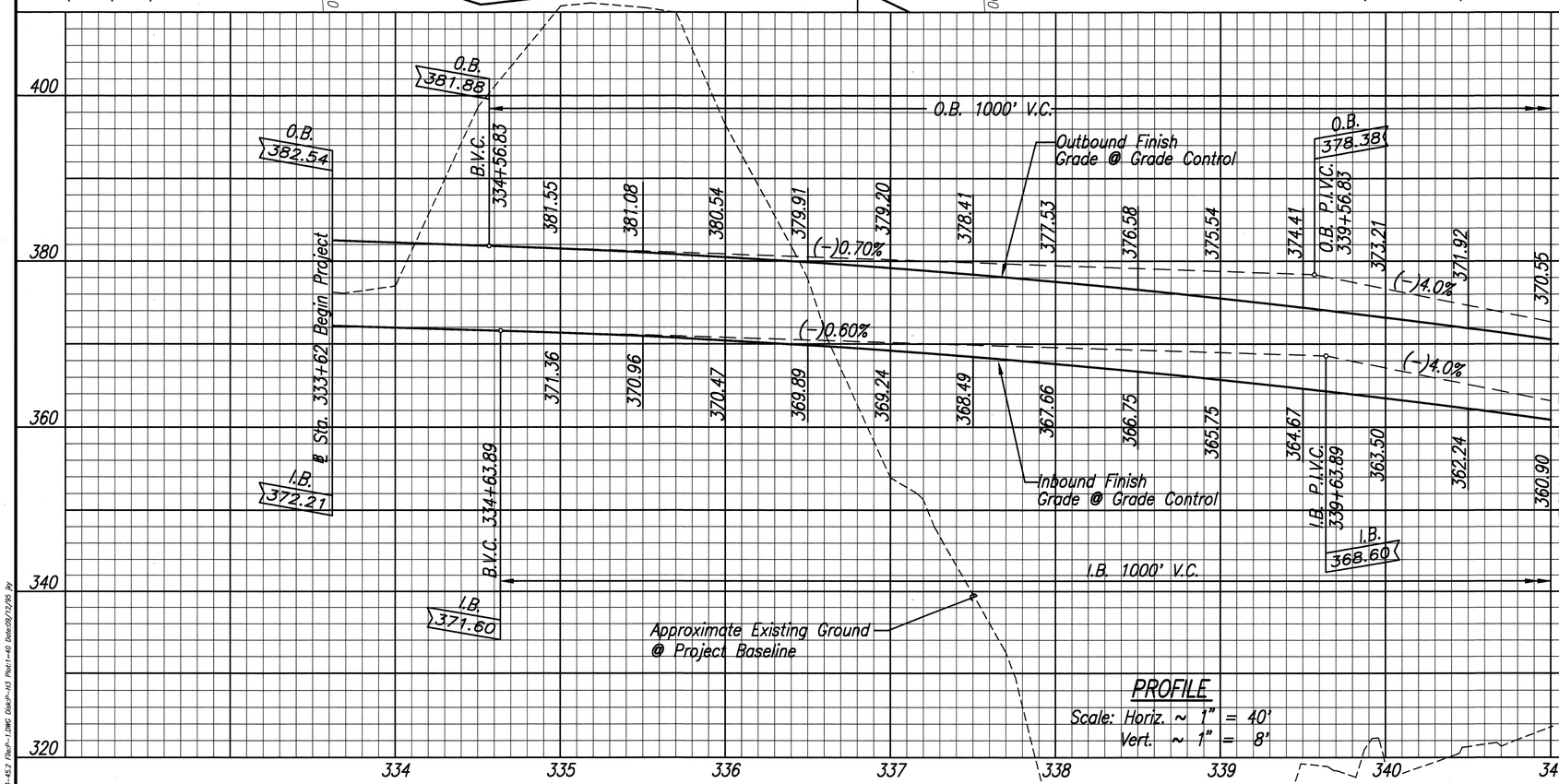


True North

Scale : 1" = 40'

GENERAL NOTES:

1. Azimuth and coordinates are based on Hawaiian Plane Coordinate Grid System Zone 1, referred to "Kailua" △, 80,135.23 N & 575,640.57 E
2. Bench Marks are referred to mean sea level datum and shall be furnished and established by State Department of Transportation, Highways Division.
3. Referenced information on all sheets pertains to roadway listed in Title Block, unless otherwise noted.
4. "◎" denotes installation of reference survey monuments at locations shown on plans. For detail see Standard Plan D-06.
5. For Metal Guardrail Detail, see Standard Plan TE-50 & 51.
6. For Metal Guardrail Flare Detail, Types C, F and BCT, see Standard Plan TE-58, 59, 60, 61 & 62.
7. For Metal Guardrail Flare Detail, Types C-1 & F-1, see sht. 54
8. For Concrete Guardrail Type A Detail, see sht. 7
9. For Concrete Guardrail Type 4G & 4H Detail, see sht. 54
10. For Metal Guardrail connection to Concrete Guardrail and Retaining Wall Detail, see Standard Plan, TE-55.
11. Where the structure interferes with the placement of metal guardrail post, the Contractor shall provide additional posts as necessary to accomodate Structure. Cost for additional post will not be measured and paid for separately, but will be considered incidental to the metal guardrail.



PROFILE

Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

9/13/95	Revised Inbound PCC Pavement Limit to ℄ Sta. 333+25
2/21/92	Added item 11 to General Notes.
DATE	REVISION

ROBERT I. TAGAWA REGISTERED PROFESSIONAL ENGINEER No. 1564-C HAWAII, U.S.A.

ARNOLD M. FUKUMOTO LICENSED PROFESSIONAL ENGINEER No. 8363-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

H3 - KANEOHE INTERCHANGE
STA. 333+62 TO STA. 341+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

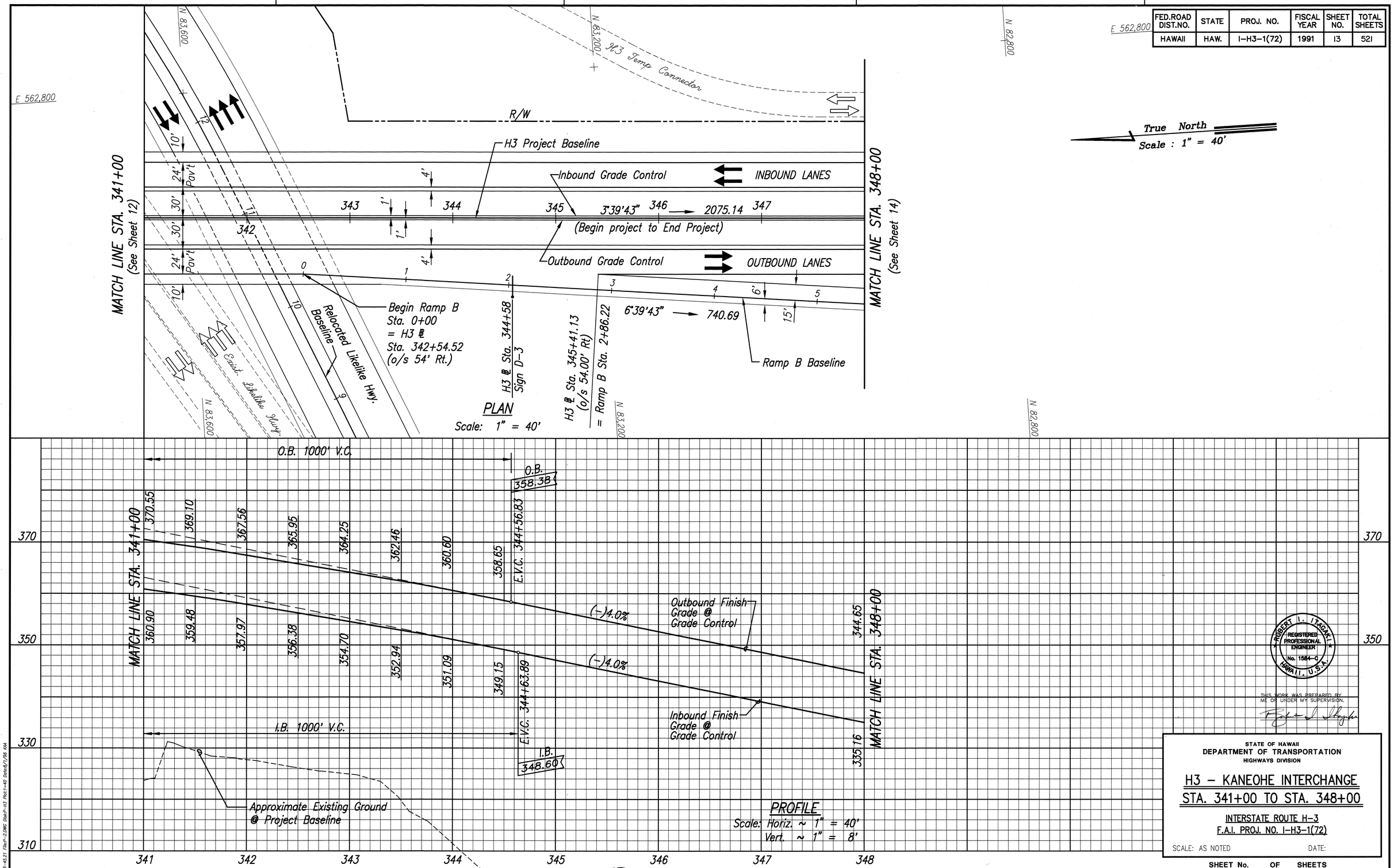
SHEET No. OF SHEETS

C.O. ADD. 12

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

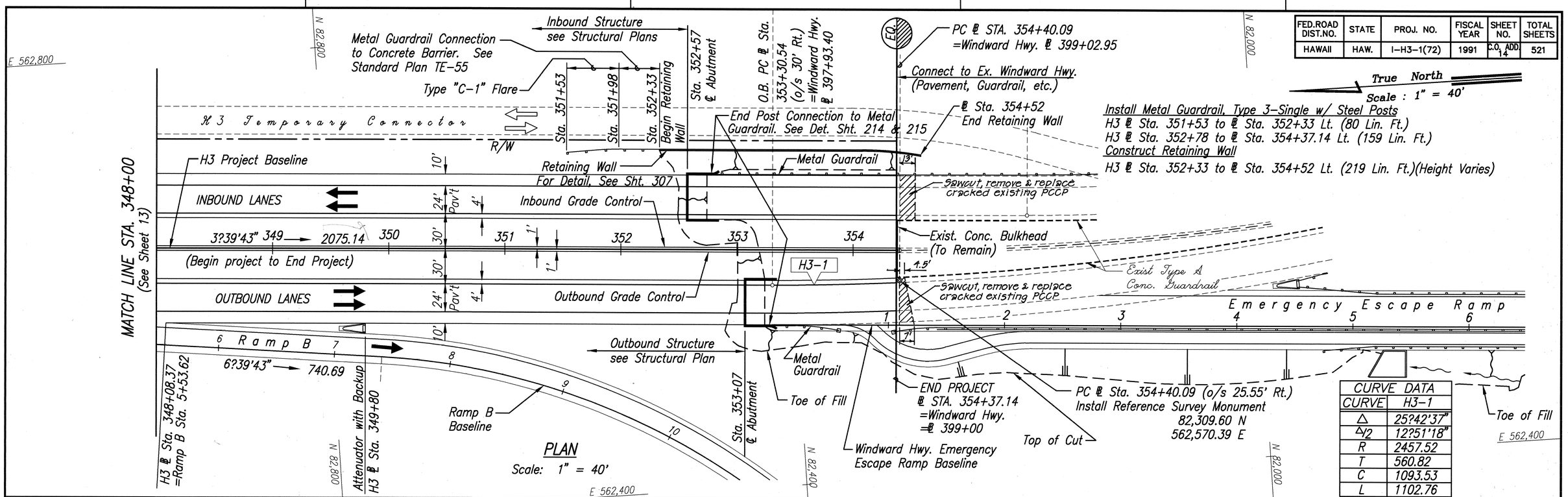
83-462 FILE-I-3WC DGN-H3 Plot 1=40 Date:09/10/95 by

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	13	521

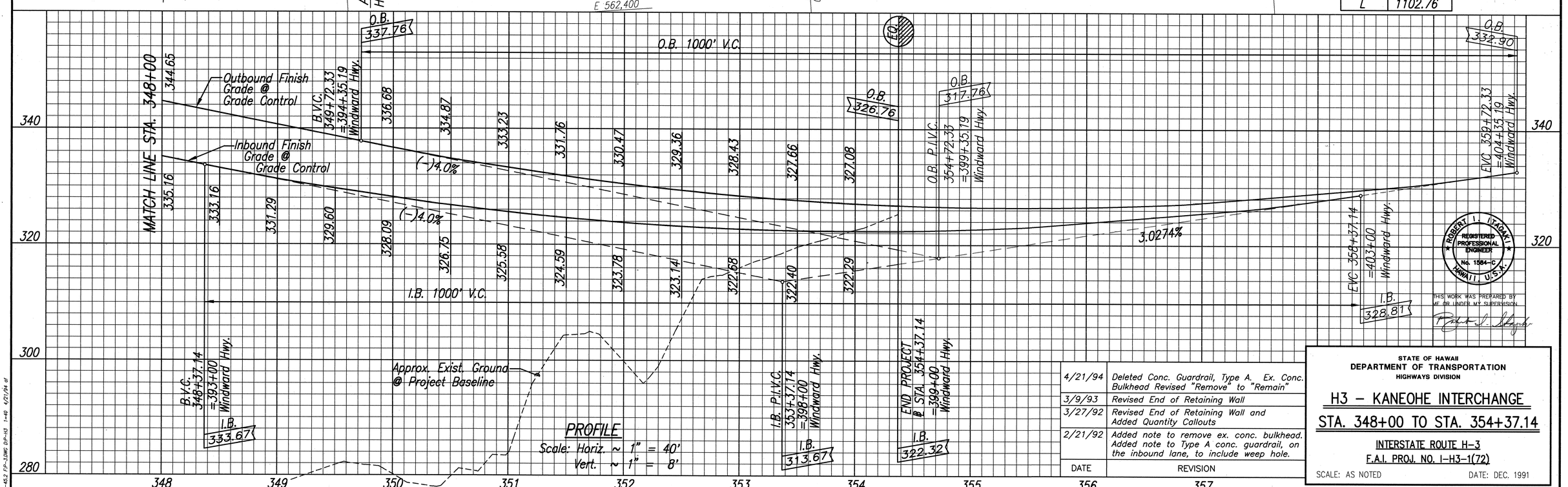


13

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD 14	521



CURVE DATA	
CURVE	H3-1
Δ	25?42'37"
Δ/2	12?51'18"
R	2457.52
T	560.82
C	1093.53
L	1102.76



DATE	REVISION
4/21/94	Deleted Conc. Guardrail, Type A. Ex. Conc. Bulkhead Revised "Remove" to "Remain"
3/9/93	Revised End of Retaining Wall
3/27/92	Revised End of Retaining Wall and Added Quantity Callouts
2/21/92	Added note to remove ex. conc. bulkhead. Added note to Type A conc. guardrail, on the inbound lane, to include weep hole.

ROBERT I. ITAGAKI REGISTERED PROFESSIONAL ENGINEER No. 1564-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

H3 – KANEOHE INTERCHANGE

STA. 348+00 TO STA. 354+37.14

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

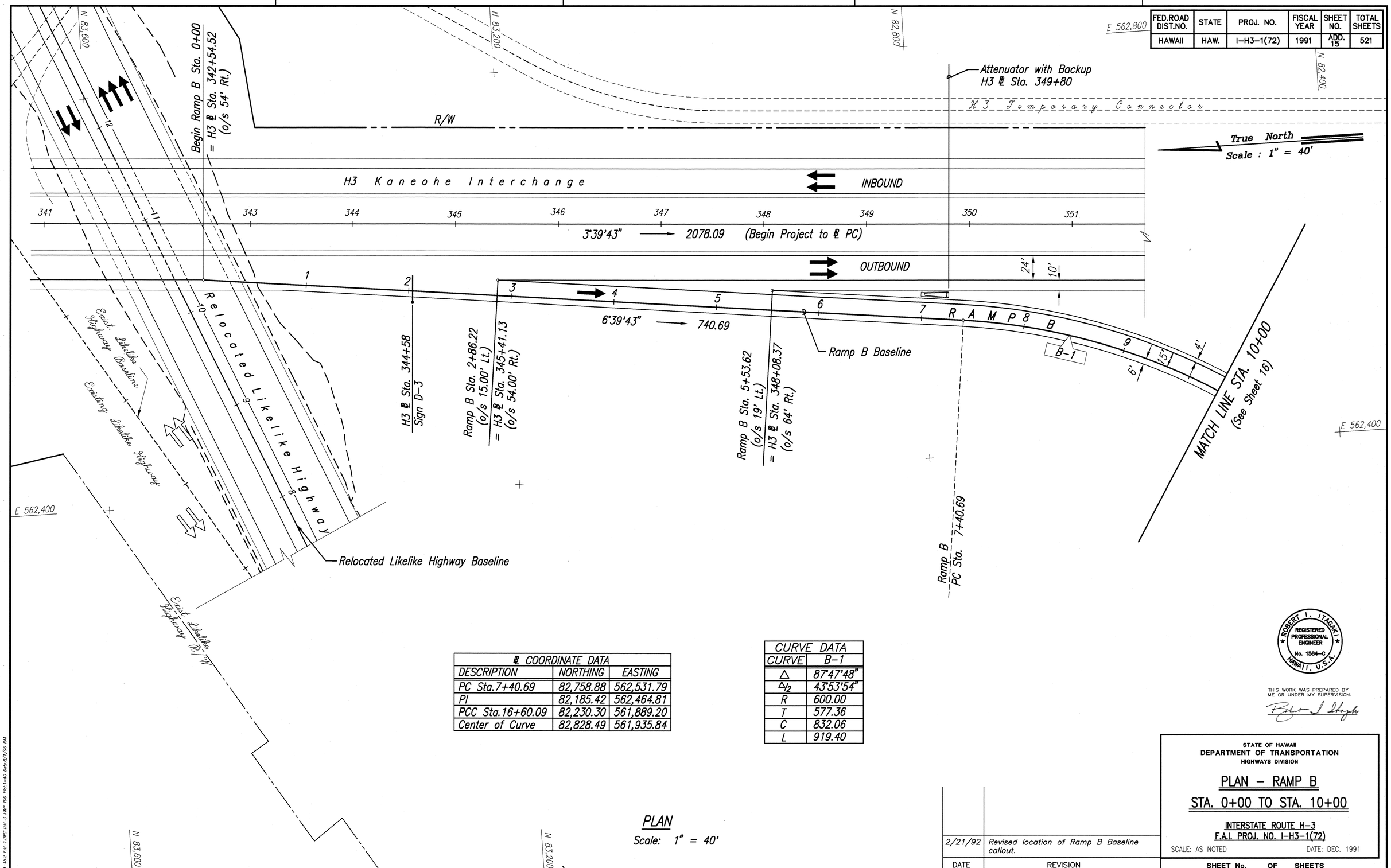
SHEET No. OF SHEETS

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

J83-45.2 FP-3.DWG 8W-H3 1=40 4/21/94 of

C.O. ADD. 14

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 15	521



℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.7+40.69	82,758.88	562,531.79
PI	82,185.42	562,464.81
PCC Sta.16+60.09	82,230.30	561,889.20
Center of Curve	82,828.49	561,935.84

CURVE DATA	
CURVE	B-1
Δ	87°47'48"
Δ/2	43°53'54"
R	600.00
T	577.36
C	832.06
L	919.40

PLAN

Scale: 1" = 40'

DATE	REVISION
2/21/92	Revised location of Ramp B Baseline callout.

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN – RAMP B

STA. 0+00 TO STA. 10+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

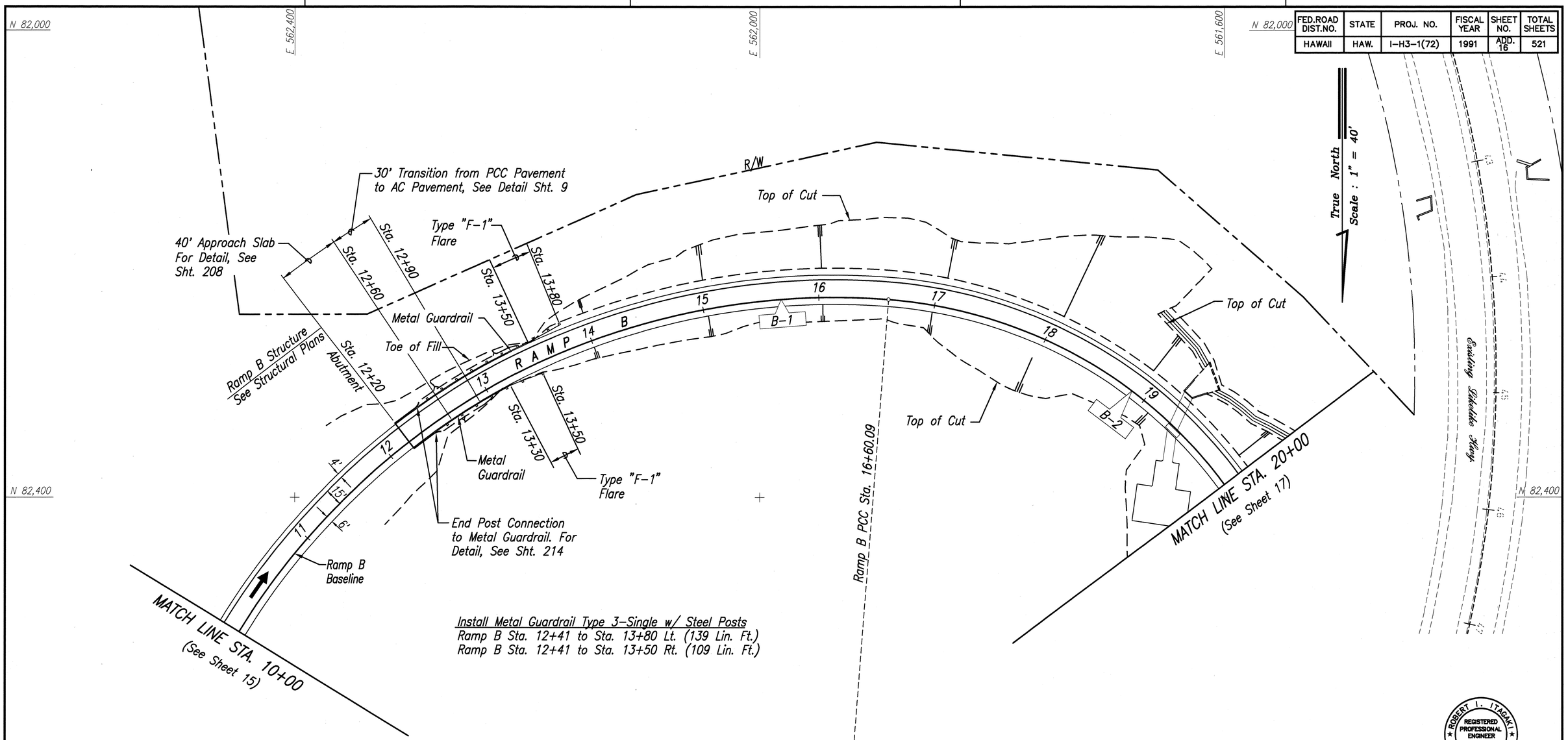
SHEET No. OF SHEETS

ADD. 15

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

83-42-2 F.B.-1,DWG B.H.-1 PAP TRD Pad-1-40 Date:8/1/88 KAA

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 16	521



Install Metal Guardrail Type 3-Single w/ Steel Posts
Ramp B Sta. 12+41 to Sta. 13+80 Lt. (139 Lin. Ft.)
Ramp B Sta. 12+41 to Sta. 13+50 Rt. (109 Lin. Ft.)

CURVE DATA		
CURVE	B-1	B-2
Δ	87°47'48"	120°38'19"
Δ/2	43°53'54"	60°19'10"
R	600.00	400.00
T	577.36	701.82
C	832.06	695.04
L	919.40	842.22

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PCC Sta.16+60.09	82,230.30	561,889.20
PI	82,284.86	561,189.50
PT Sta.25+02.31	82,859.08	561,593.02
Center of Curve	82,629.09	561,920.30

PLAN
Scale: 1" = 40'

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

85-453 FIB-2.DWG DH-3 FAP TOD Plot1=40 Date6/1/96 kkk

DATE	REVISION
3/27/92	Added Note for 40' Approach Slab
2/21/92	Added callouts for 40' Approach Slab and 30' Transition from PCC to AC pavement.

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN - RAMP B

STA. 10+00 TO STA. 20+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

SHEET No. OF SHEETS

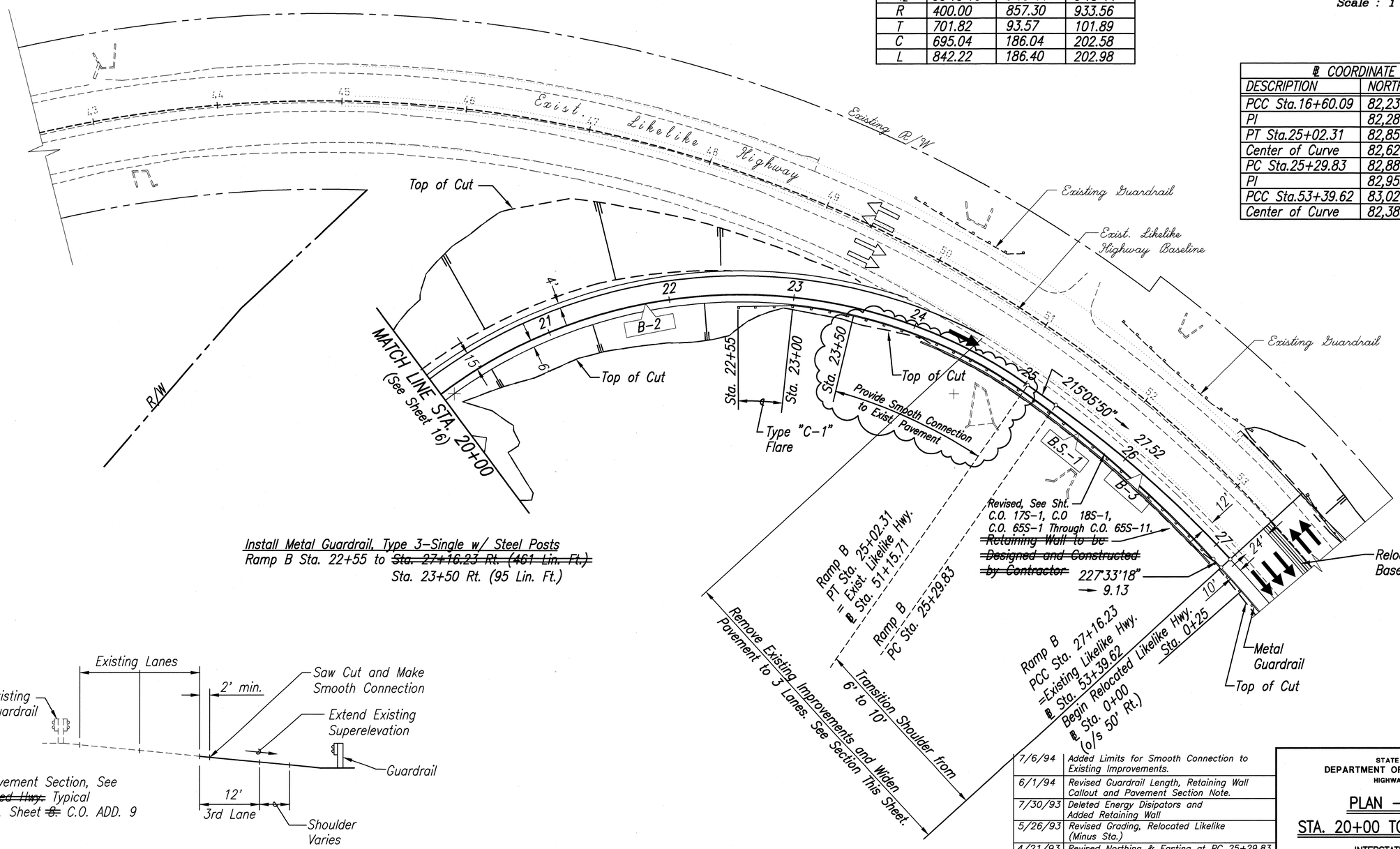
ADD. 16

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O.ADD. 17	521

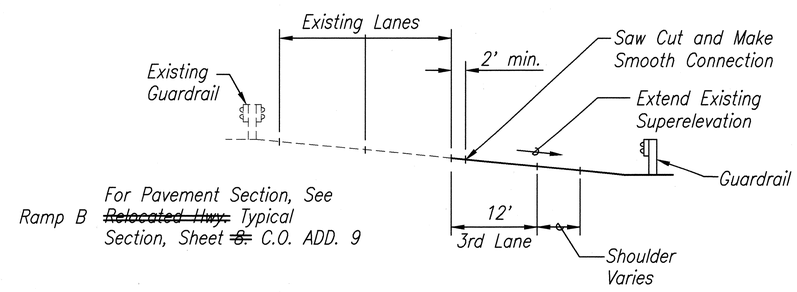
CURVE DATA			
CURVE	B-2	B-3	B.S.-1
Δ	120°38'19"	12°27'28"	12°27'28"
Δ/2	60°19'10"	6°13'44"	6°13'44"
R	400.00	857.30	933.56
T	701.82	93.57	101.89
C	695.04	186.04	202.58
L	842.22	186.40	202.98

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PCC Sta.16+60.09	82,230.30	561,889.20
PI	82,284.86	561,189.50
PT Sta.25+02.31	82,859.08	561,593.02
Center of Curve	82,629.09	561,920.30
PC Sta.25+29.83	82,881.60	561,608.84
PI	82,958.15	561,662.65
PCC Sta.53+39.62	83,021.31	561,731.69
Center of Curve	82,388.68	562,310.27

True North
Scale : 1" = 40'



Install Metal Guardrail, Type 3-Single w/ Steel Posts
Ramp B Sta. 22+55 to ~~Sta. 27+16.23 Rt. (461 Lin. Ft.)~~
Sta. 23+50 Rt. (95 Lin. Ft.)



For Pavement Section, See Ramp B ~~Relocated Hwy.~~ Typical Section, Sheet ~~8~~ C.O. ADD. 9

PAVEMENT WIDENING SECTION
Not to Scale

PLAN
Scale: 1" = 40'

DATE	REVISION
7/6/94	Added Limits for Smooth Connection to Existing Improvements.
6/1/94	Revised Guardrail Length, Retaining Wall Callout and Pavement Section Note.
7/30/93	Deleted Energy Disipators and Added Retaining Wall
5/26/93	Revised Grading, Relocated Likelike (Minus Sta.)
4/21/93	Revised Northing & Easting at PC 25+29.83, PI, PCC 53+39.62, & Center of Curve.
3/27/92	Added Pavement Note to Pavement Section
2/21/92	Revised Energy Dissipator Alignment

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN – RAMP B
STA. 20+00 TO STA. 27+16.23

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

SHEET No. OF SHEETS

ROBERT I. ITAGAKI REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

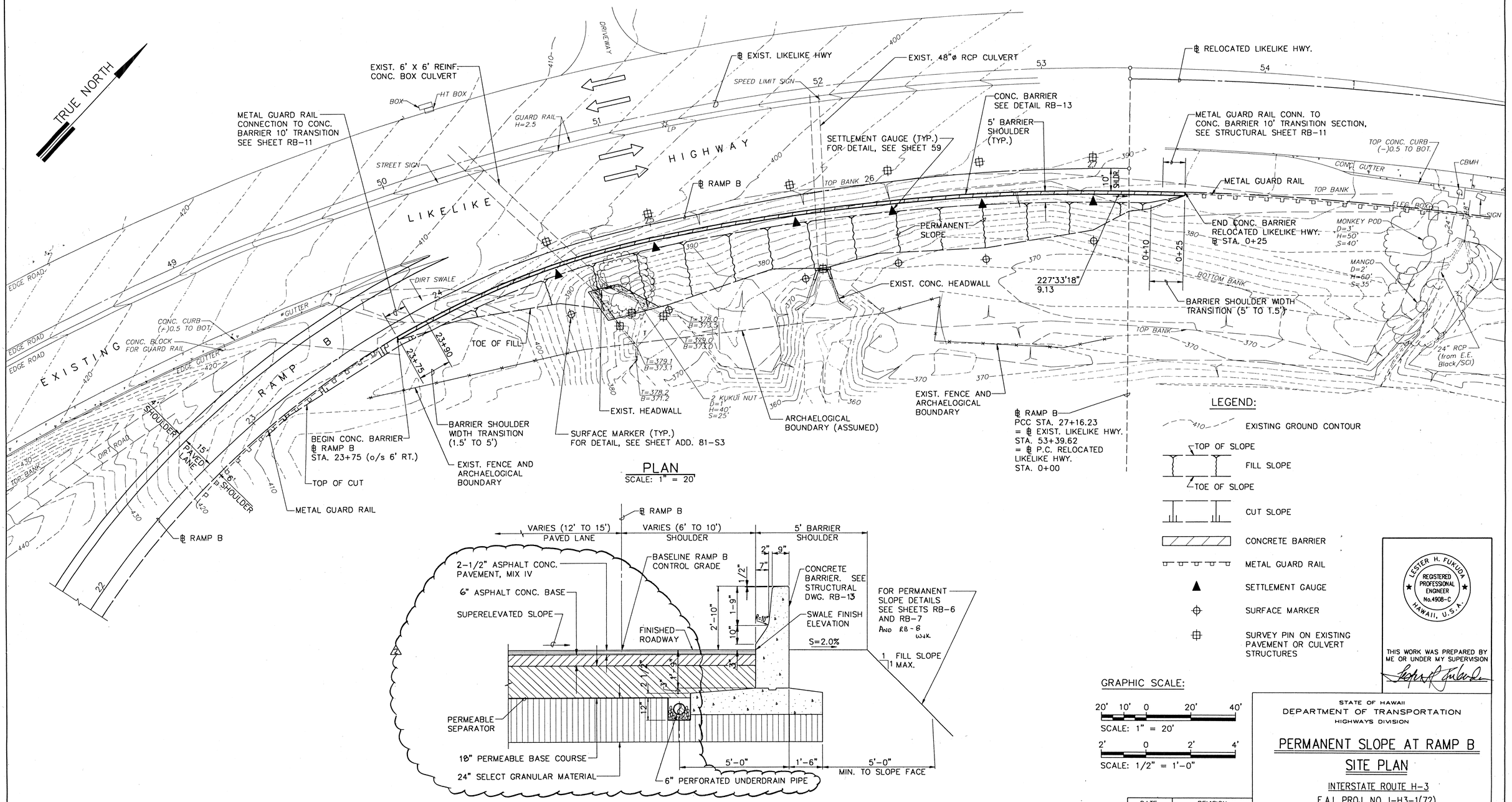
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

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

83-452 F.B.-5,IWC B/P & P 700 Plot1=40 07/6/94 jby

C.O. ADD. 17

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (72)	1991	C.O. 17 S-1	521



PLAN
SCALE: 1" = 20'

TYPICAL SECTION
SCALE: 1/2" = 1'-0"
(RAMP B STA. 23+55 TO RELOCATED LIKELIKE HIGHWAY STA. 0+25)

LESTER H. FUKUDA REGISTERED PROFESSIONAL ENGINEER No. 4908-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PERMANENT SLOPE AT RAMP B

SITE PLAN

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: JAN. 1994

SHEET NO. RB-1 OF 13 SHEETS

C.O. 17 S-1

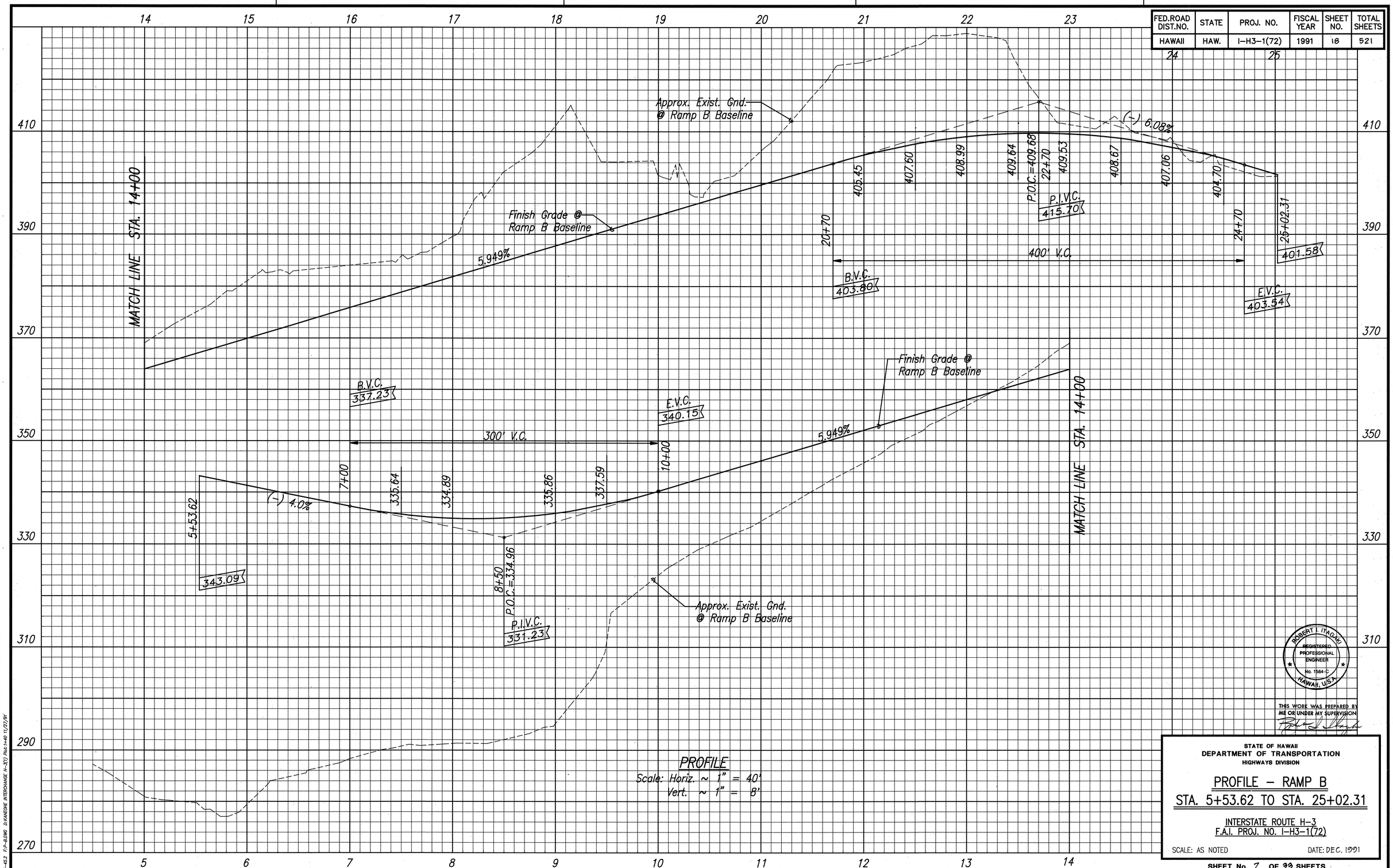
DATE	REVISION
2	REVISED ROAD SECTION

FILE: 9318-02
SCALE: 1" = 20'
DATE: 8/25/93
PM: LHF/ERO
OPER: SHA,ERO,FAI,BBT,*CDK
REVISED: 1/6/95
CHECK/DATE: / /
CHECK/DATE: / /

ORIGINAL PLAN | NOTEBOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

~ ROTATED: (+)43° 00' 08"

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	18	521



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE – RAMP B
STA. 5+53.62 TO STA. 25+02.31

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

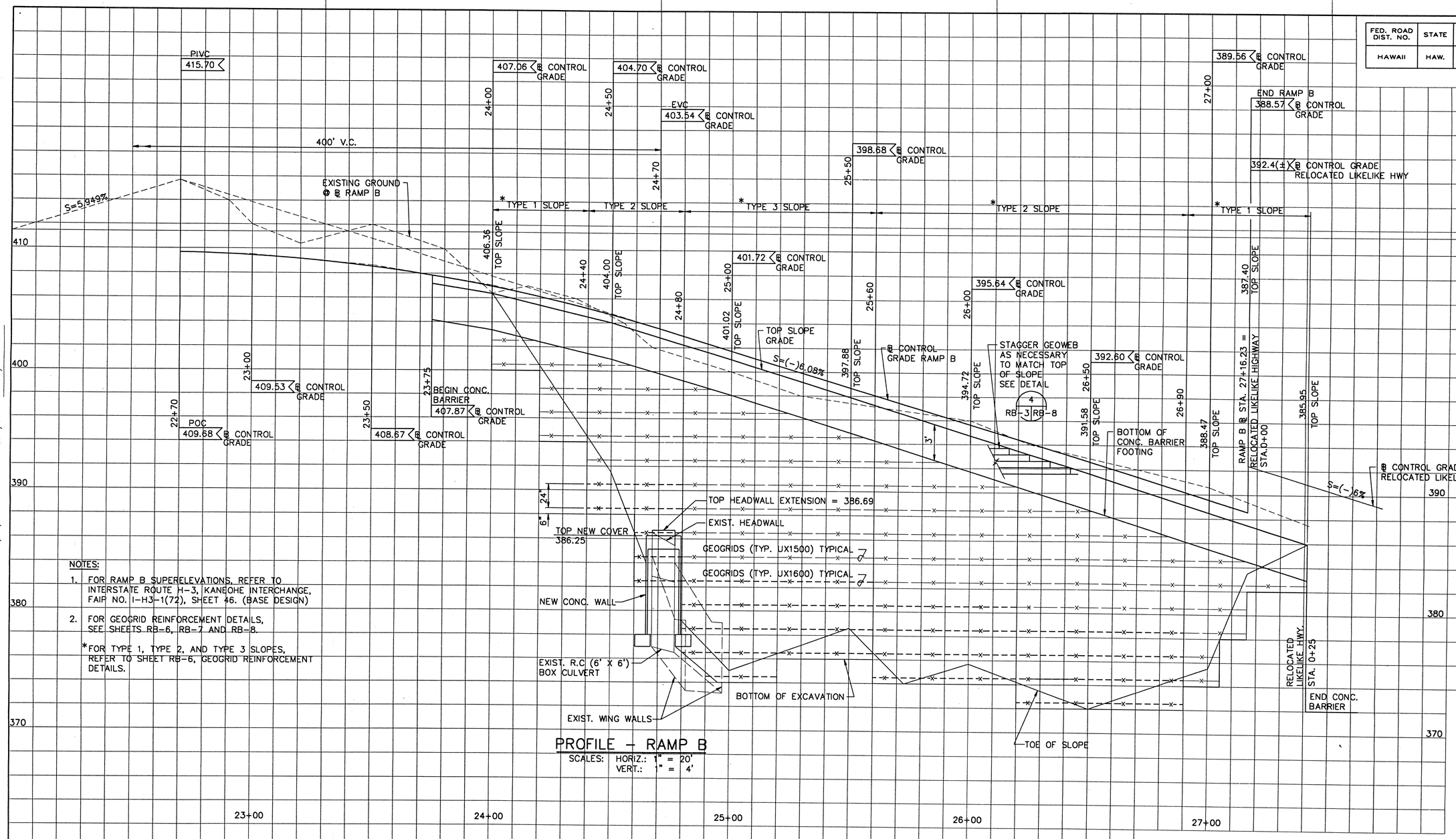
SCALE: AS NOTED DATE: DEC. 1991

SHEET No. 7 OF 33 SHEETS

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

83-45.2 F.P-BJ96 EX:MEDHE INTERCHANGE H-3(1) Plot:1=40 11/27/91

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (72)	1991	C.O. 18 S-1	521



NOTES:

1. FOR RAMP B SUPERELEVATIONS, REFER TO INTERSTATE ROUTE H-3, KANEOHE INTERCHANGE, FAIR NO. I-H3-1(72), SHEET 46. (BASE DESIGN)
2. FOR GEOGRID REINFORCEMENT DETAILS, SEE SHEETS RB-6, RB-7 AND RB-8.

*FOR TYPE 1, TYPE 2, AND TYPE 3 SLOPES, REFER TO SHEET RB-6, GEOGRID REINFORCEMENT DETAILS.

PROFILE - RAMP B

SCALES: HORIZ.: 1" = 20'
VERT.: 1" = 4'

GRAPHIC SCALES:

20 0 20 40
SCALE: 1" = 20'

4 0 4 8
SCALE: 1" = 4'

DATE	REVISION

LESTER H. FUKUDA
REGISTERED PROFESSIONAL ENGINEER
No. 4908-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PERMANENT SLOPE AT RAMP B - PROFILE

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED
DATE: MAY. 1994

SHEET NO. RB-3 OF 13 SHEETS

C.O. 18 S-1

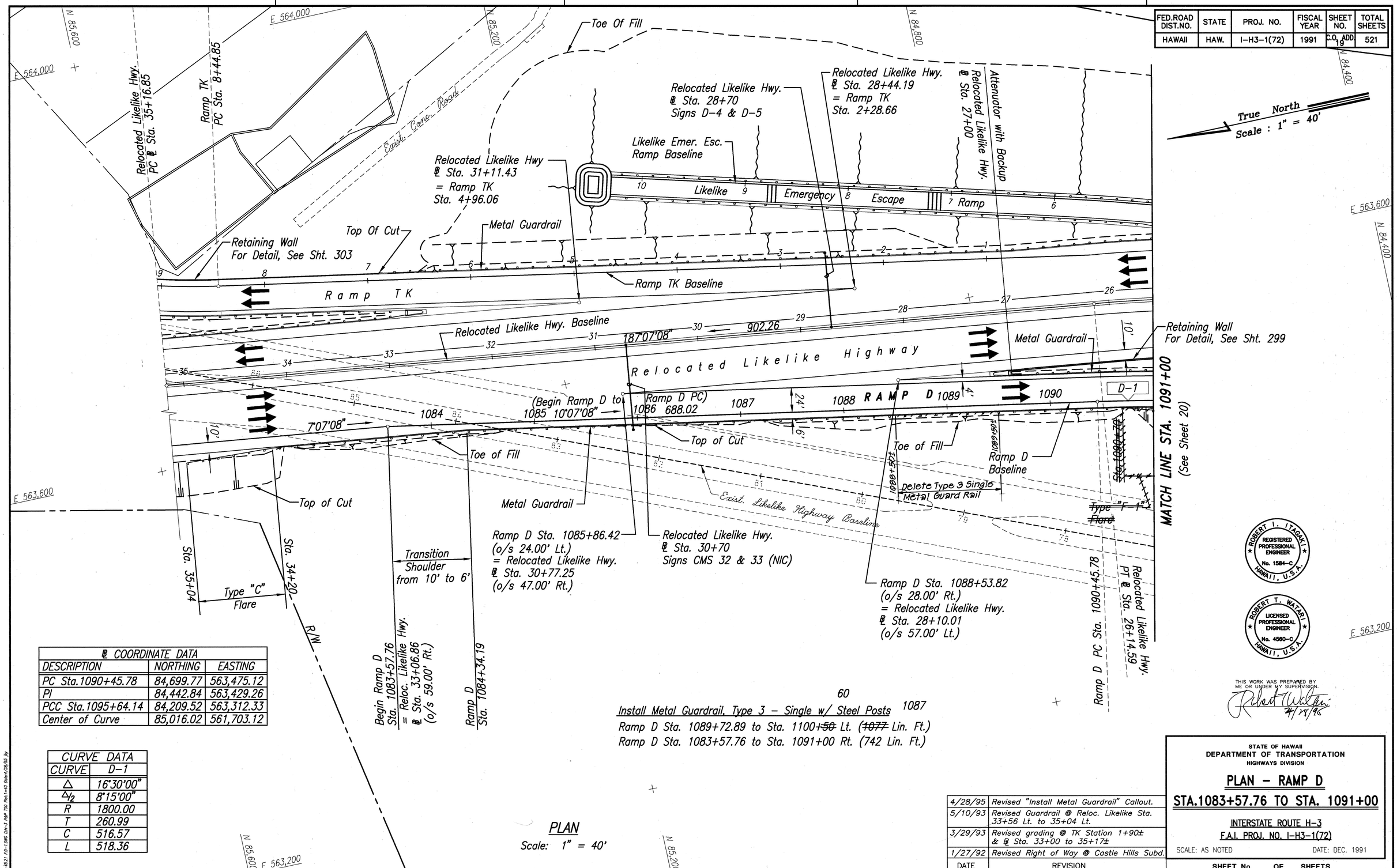
FILE: 9318-08
SCALE: 1" = 20'
DATE: 09-29-93

PM: LHF/ERO
OPER: BBT/FAI,SHA,+CDK
REVISED: 5/11/94

CHECK/DATE: 5/11/94
CHECK/DATE: /

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

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 19	521



Install Metal Guardrail, Type 3 – Single w/ Steel Posts 60 1087
Ramp D Sta. 1089+72.89 to Sta. 1100+~~50~~ Lt. (~~1077~~ Lin. Ft.)
Ramp D Sta. 1083+57.76 to Sta. 1091+00 Rt. (742 Lin. Ft.)

PLAN
Scale: 1" = 40'

@ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.1090+45.78	84,699.77	563,475.12
PI	84,442.84	563,429.26
PCC Sta.1095+64.14	84,209.52	563,312.33
Center of Curve	85,016.02	561,703.12

CURVE DATA	
CURVE	D-1
Δ	16°30'00"
Δ/2	8°15'00"
R	1800.00
T	260.99
C	516.57
L	518.36

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

83-4521 F2-1,UMC Dir-3 PMP TO Pect-40 Date:4/28/95 Jw

DATE	REVISION
4/28/95	Revised "Install Metal Guardrail" Callout.
5/10/93	Revised Guardrail @ Reloc. Likelike Sta. 33+56 Lt. to 35+04 Lt.
3/29/93	Revised grading @ TK Station 1+90± & @ Sta. 33+00 to 35+17±
1/27/92	Revised Right of Way @ Castle Hills Subd.

ROBERT I. ITAGAKI REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

ROBERT T. WATARI LICENSED PROFESSIONAL ENGINEER No. 4560-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
4/28/95

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN – RAMP D

STA.1083+57.76 TO STA. 1091+00

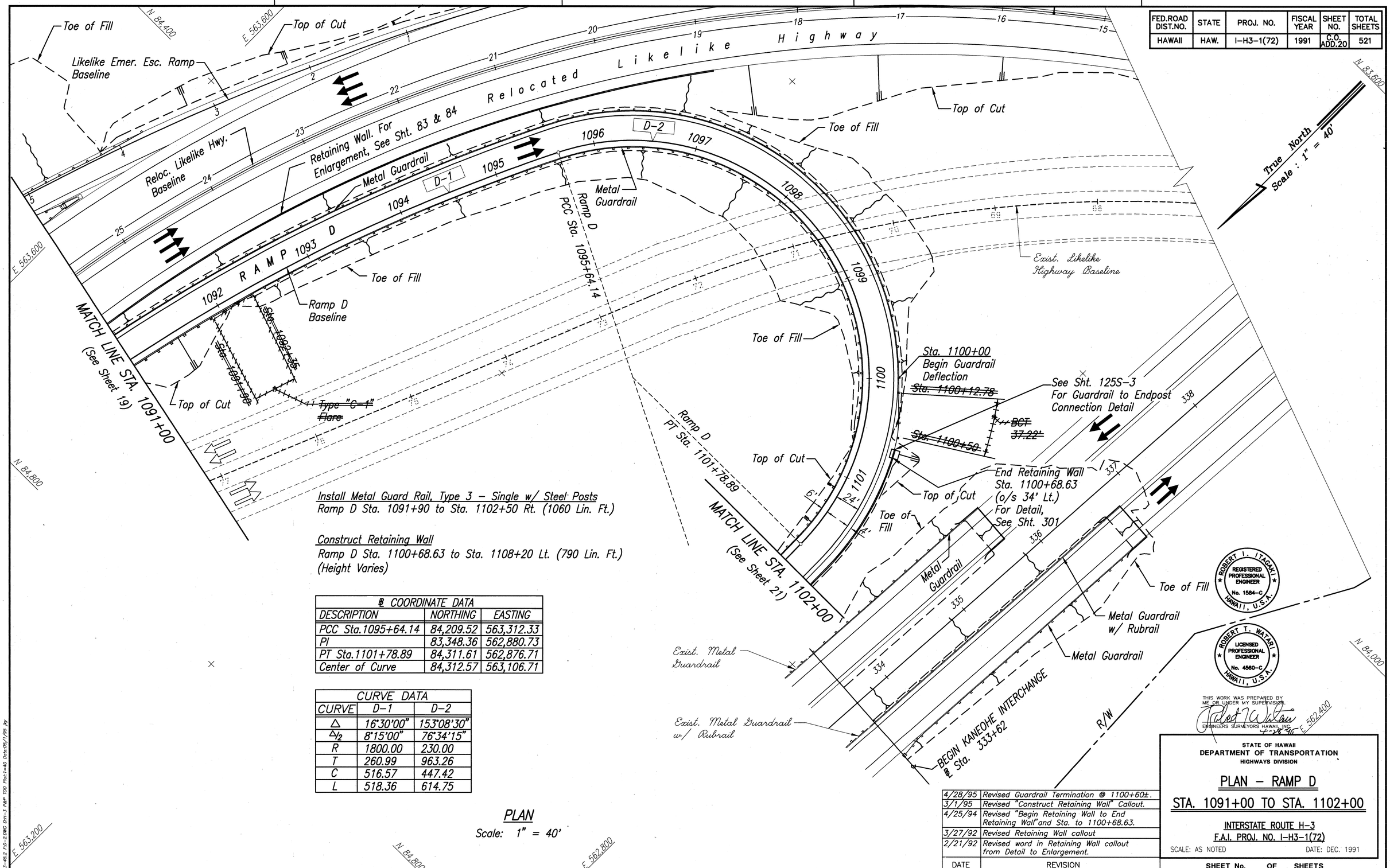
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

SHEET No. OF SHEETS

C.O. ADD. 19

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD.20	521



Install Metal Guard Rail, Type 3 – Single w/ Steel Posts
Ramp D Sta. 1091+90 to Sta. 1102+50 Rt. (1060 Lin. Ft.)

Construct Retaining Wall
Ramp D Sta. 1100+68.63 to Sta. 1108+20 Lt. (790 Lin. Ft.)
(Height Varies)

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PCC Sta.1095+64.14	84,209.52	563,312.33
PI	83,348.36	562,880.73
PT Sta.1101+78.89	84,311.61	562,876.71
Center of Curve	84,312.57	563,106.71

CURVE DATA		
CURVE	D-1	D-2
Δ	16°30'00"	153°08'30"
Δ/2	8°15'00"	76°34'15"
R	1800.00	230.00
T	260.99	963.26
C	516.57	447.42
L	518.36	614.75

PLAN
Scale: 1" = 40'

DATE	REVISION
4/28/95	Revised Guardrail Termination @ 1100+60±.
3/1/95	Revised "Construct Retaining Wall" Callout.
4/25/94	Revised "Begin Retaining Wall to End Retaining Wall" and Sta. to 1100+68.63.
3/27/92	Revised Retaining Wall callout
2/21/92	Revised word in Retaining Wall callout from Detail to Enlargement.

ROBERT I. ITAGAKI — REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

ROBERT T. WATARI — LICENSED PROFESSIONAL ENGINEER No. 4560-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
ENGINEERS SURVEYORS HAWAII, INC.
4-28-95

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN – RAMP D

STA. 1091+00 TO STA. 1102+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

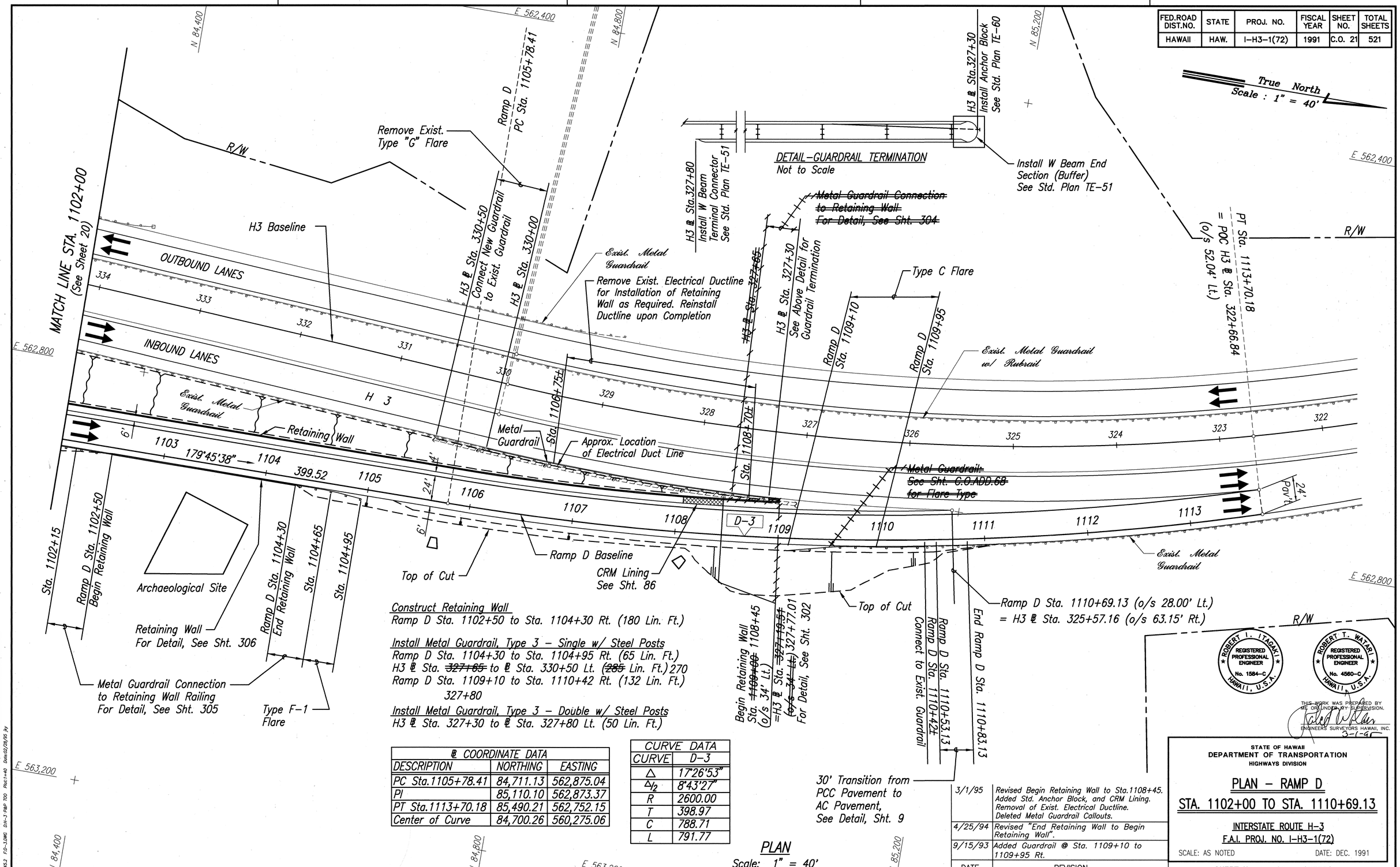
SHEET No. OF SHEETS

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

83-45.2 F.D.-2.DWG DIH-3 P&P TOD Plot:1=40 Date:05/1/95 By

C.O. ADD. 20

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 21	521



Construct Retaining Wall
Ramp D Sta. 1102+50 to Sta. 1104+30 Rt. (180 Lin. Ft.)

Install Metal Guardrail, Type 3 - Single w/ Steel Posts
Ramp D Sta. 1104+30 to Sta. 1104+95 Rt. (65 Lin. Ft.)
H3 ℄ Sta. ~~327+65~~ to ℄ Sta. 330+50 Lt. (~~285~~ 270 Lin. Ft.)
Ramp D Sta. 1109+10 to Sta. 1110+42 Rt. (132 Lin. Ft.)
327+80

Install Metal Guardrail, Type 3 - Double w/ Steel Posts
H3 ℄ Sta. 327+30 to ℄ Sta. 327+80 Lt. (50 Lin. Ft.)

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.1105+78.41	84,711.13	562,875.04
PI	85,110.10	562,873.37
PT Sta.1113+70.18	85,490.21	562,752.15
Center of Curve	84,700.26	560,275.06

CURVE DATA	
CURVE	D-3
Δ	17°26'53"
Δ/2	8°43'27"
R	2600.00
T	398.97
C	788.71
L	791.77

PLAN
Scale: 1" = 40'

DATE	REVISION
3/1/95	Revised Begin Retaining Wall to Sta.1108+45. Added Std. Anchor Block, and CRM Lining. Removal of Exist. Electrical Ductline. Deleted Metal Guardrail Callouts.
4/25/94	Revised "End Retaining Wall to Begin Retaining Wall".
9/15/93	Added Guardrail @ Sta. 1109+10 to 1109+95 Rt.

ROBERT I. ITAGAKI REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

ROBERT T. WATARI REGISTERED PROFESSIONAL ENGINEER No. 4560-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
ENGINEERS SURVEYORS HAWAII, INC.
3-1-95

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN - RAMP D
STA. 1102+00 TO STA. 1110+69.13

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

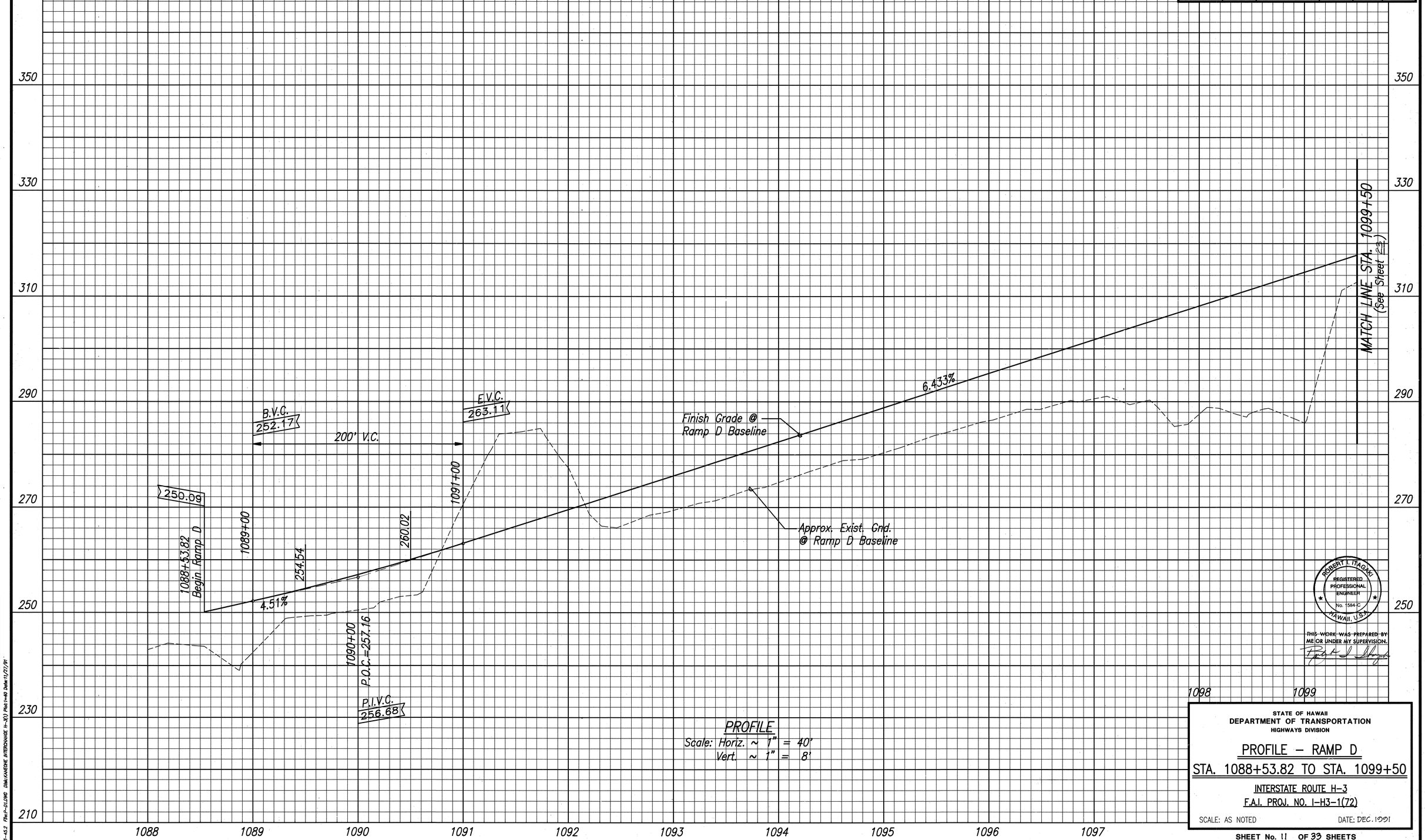
SHEET No. OF SHEETS

C.O. 21

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

A3-45.2 F/D-1.DWG DH-1-Rep 700 Plot:1=40 Date:02/28/95 By

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	22	521



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE – RAMP D

STA. 1088+53.82 TO STA. 1099+50

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

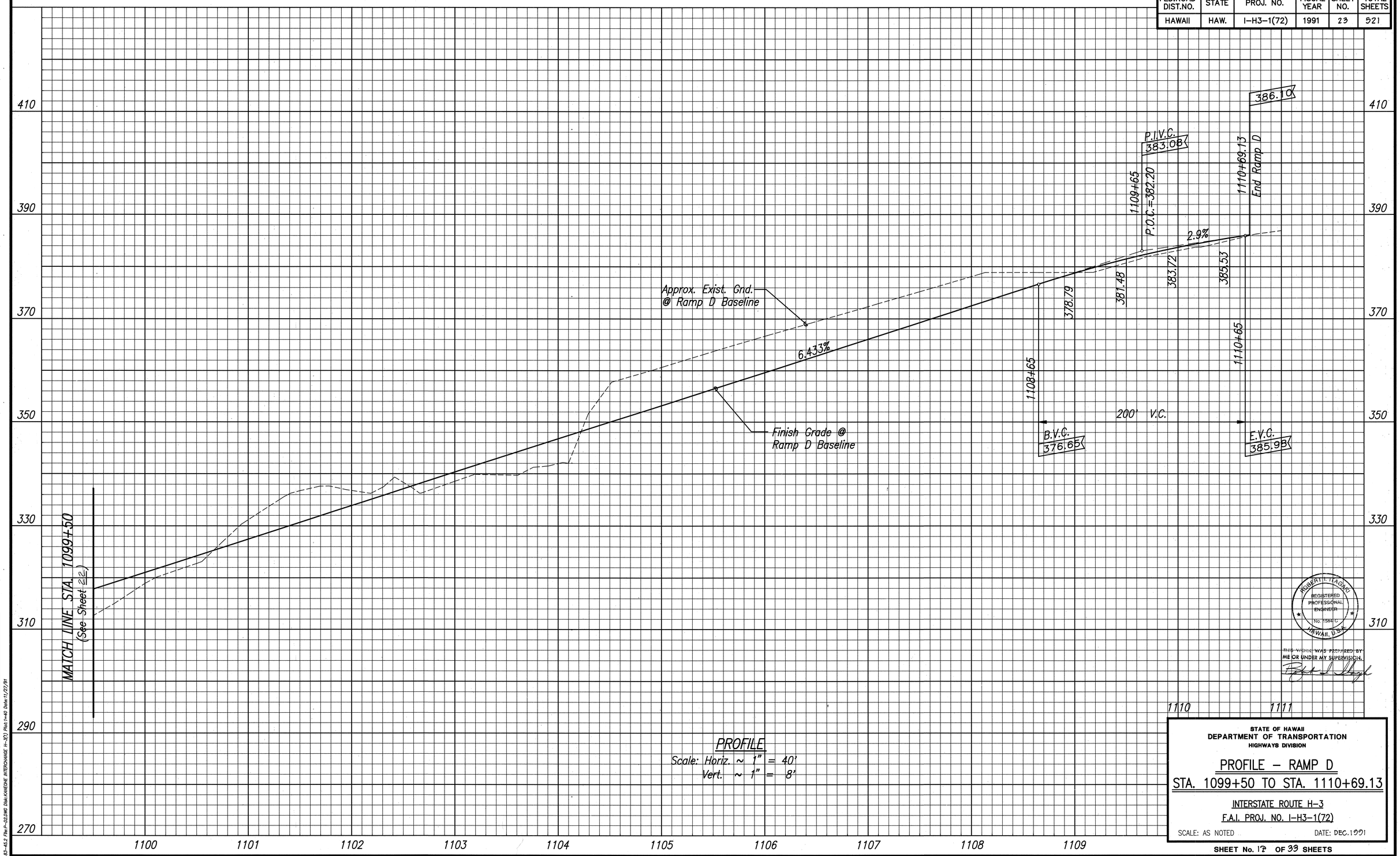
SHEET No. 11 OF 33 SHEETS

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

83-45.2 File:P-01.DWG Disk:SHEONE INTERCHANGE H-3(1) Plot:1=40 Date:11/21/91

22

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	23	521



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

ROBERT K. TAGAWA
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE – RAMP D
STA. 1099+50 TO STA. 1110+69.13

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

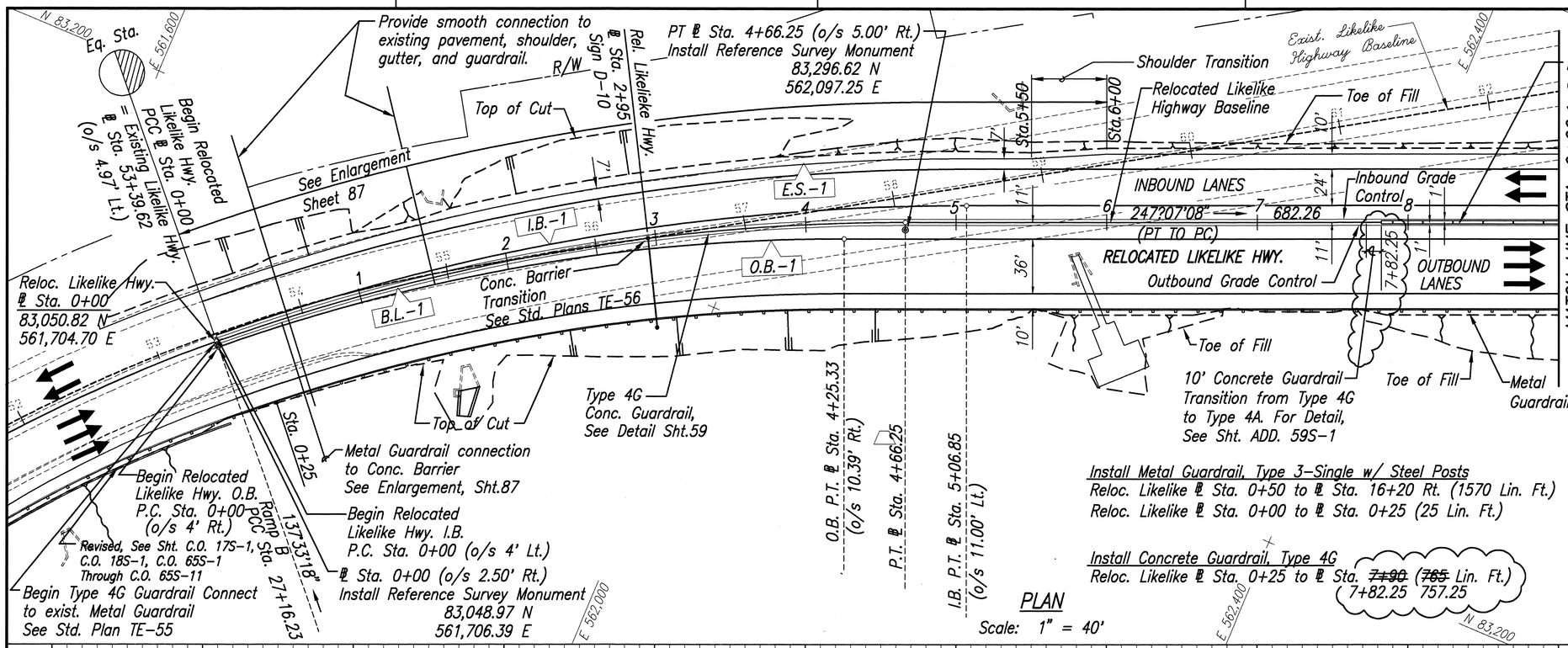
SCALE: AS NOTED DATE: DEC. 1991

SHEET No. 12 OF 33 SHEETS

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

83-45.3 File:P-02.DWG Disk:KAMOKIL INTERCHANGE H-3(7) Plot:1=40 Date:11/27/91

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O.ADD. 24	521



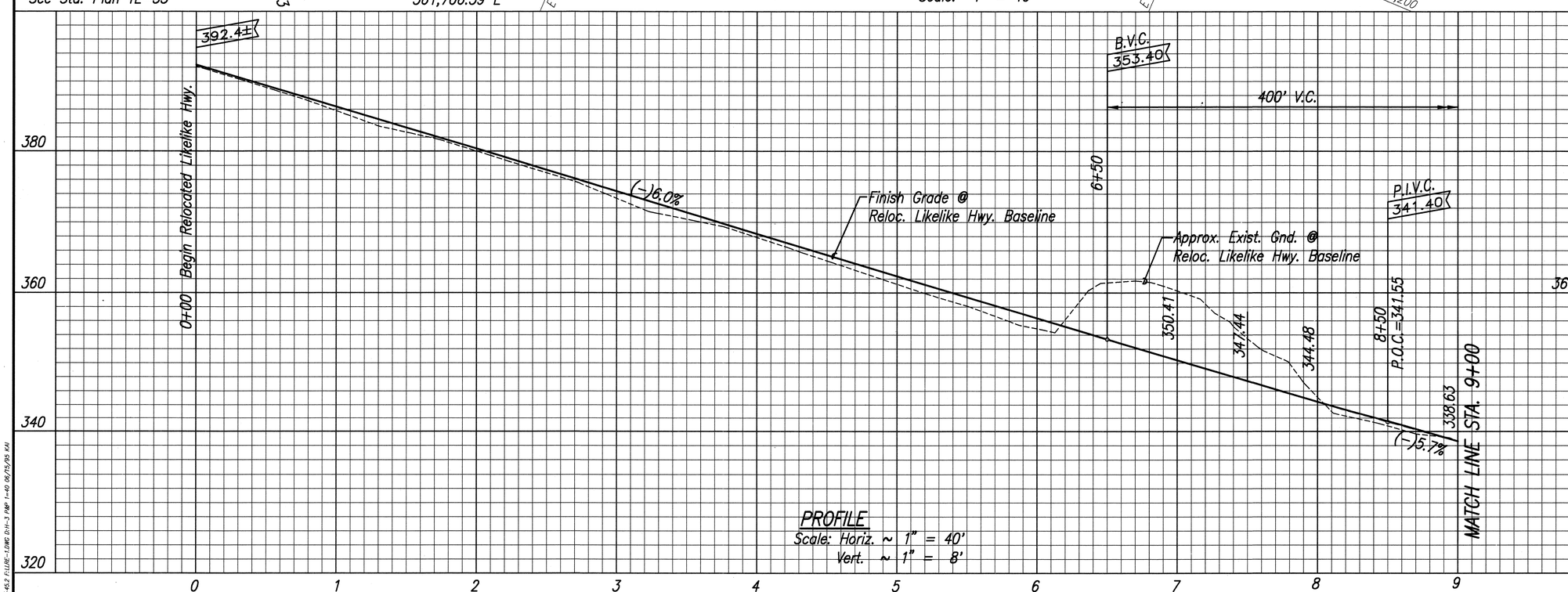
Install Metal Guardrail, Type 3-Single w/ Steel Posts
Reloc. Likelike ℄ Sta. 0+50 to ℄ Sta. 16+20 Rt. (1570 Lin. Ft.)
Reloc. Likelike ℄ Sta. 0+00 to ℄ Sta. 0+25 (25 Lin. Ft.)

Install Concrete Guardrail, Type 4G
Reloc. Likelike ℄ Sta. 0+25 to ℄ Sta. ~~7+90~~ 7+82.25 (~~765~~ 757.25 Lin. Ft.)

PLAN
Scale: 1" = 40'

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.0+00	83,050.82	561,704.70
PI	83,209.70	561,878.42
PT Sta.4+66.25	83,301.23	562,095.31
Center of Curve	82,043.20	562,626.23

CURVE DATA				
CURVE	B.L.-1	I.B.-1	O.B.-1	E.S.-1
Δ	19°33'50"	19°33'50"	19°33'50"	6°01'59"
Δ/2	9°46'55"	9°46'55"	9°46'55"	3°00'59"
R	1365.47	1490.72	1240.22	1200.00
T	235.41	257.01	213.82	63.24
C	463.98	506.54	421.42	126.30
L	466.25	509.01	423.48	126.35



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

ROBERT T. WATAGAN REGISTERED PROFESSIONAL ENGINEER No. 1581-C HAWAII, U.S.A.

ROBERT T. WATAGAN LICENSED PROFESSIONAL ENGINEER No. 4580-S HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
4-12-95

DATE	REVISION
6/15/95	Revised End Station for Type 4G Guardrail
4/10/95	Deleted Energy Dissipator, Added Headwall and Relocated Shoulder Transition.
7/6/94	Revised Limits for Smooth Connection to Exist. Improvements.
6/1/94	Revised Guardrail Length and Retaining Wall Callout.
4/21/94	Replace Type 4G Concrete Guardrail w/ Portable Concrete Barrier From Sta.7+90 to Sta.9+10. Added Conc. Guardrail Transition
7/30/93	Deleted Energy Dissipators and Grading and Added Retaining Wall
5/26/93	Revised Grading & Top of Cut, (Minus Sta.)
3/27/92	Revised Grading & R/W from Sta. 0+00 to 4+00± Lt. Deleted Metal Guardrail and Retaining Wall quantity callout.
2/21/92	Revised Energy Dissipator Location

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RELOCATED LIKELIKE HIGHWAY
STA. 0+00 TO STA. 9+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC 1991

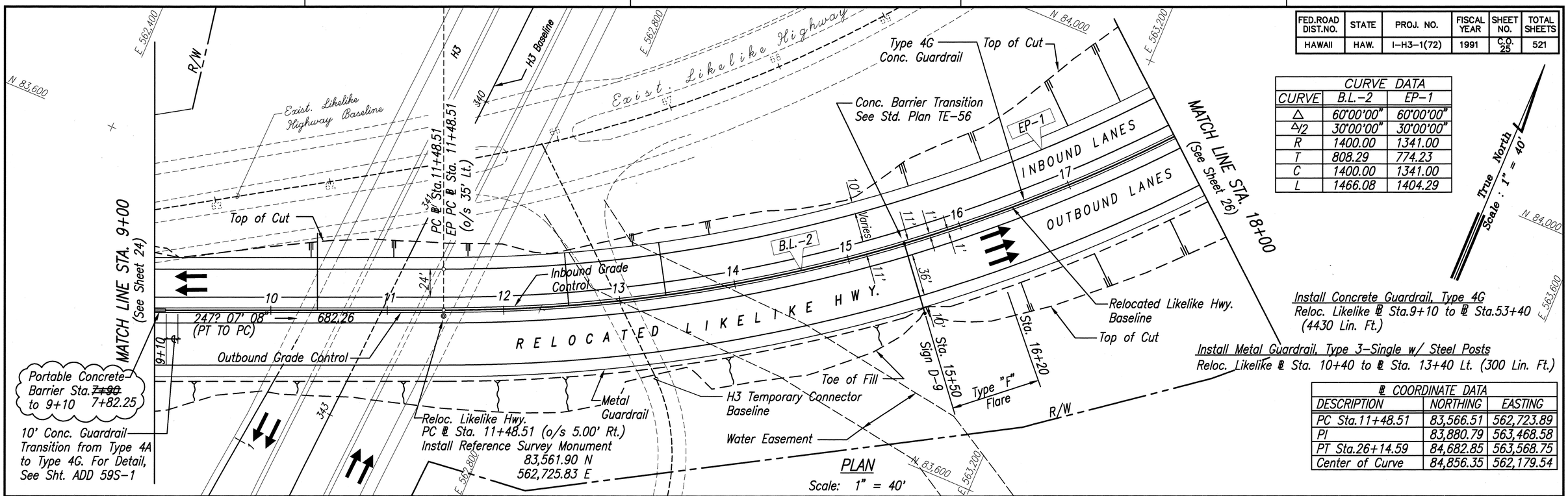
SHEET No. OF SHEETS

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

83-46.2 FIGURE-1.DWG D:H-3 PAR 1=40 06/15/95 KW

C.O. ADD. 24

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 25	521



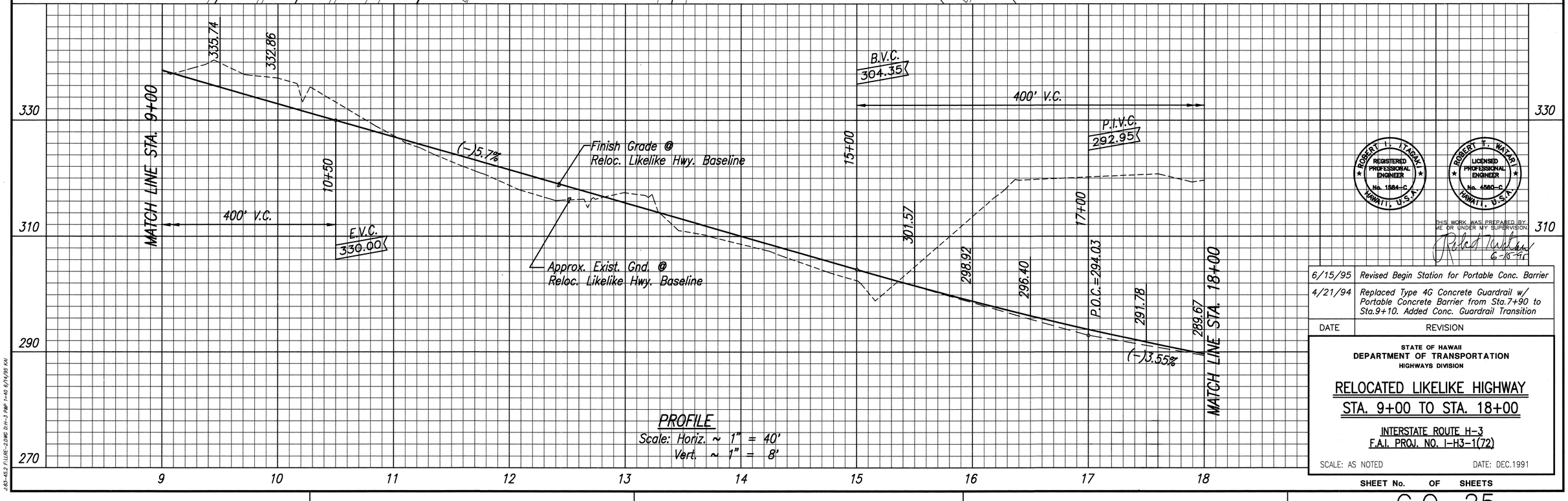
Install Concrete Guardrail, Type 4G
Reloc. Likelike ℄ Sta.9+10 to ℄ Sta.53+40
(4430 Lin. Ft.)

Install Metal Guardrail, Type 3-Single w/ Steel Posts
Reloc. Likelike ℄ Sta. 10+40 to ℄ Sta. 13+40 Lt. (300 Lin. Ft.)

PLAN
Scale: 1" = 40'

CURVE DATA		
CURVE	B.L.-2	EP-1
Δ	60°00'00"	60°00'00"
Δ/2	30°00'00"	30°00'00"
R	1400.00	1341.00
T	808.29	774.23
C	1400.00	1341.00
L	1466.08	1404.29

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.11+48.51	83,566.51	562,723.89
PI	83,880.79	563,468.58
PT Sta.26+14.59	84,682.85	563,568.75
Center of Curve	84,856.35	562,179.54



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

ROBERT T. TABRAH REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

ROBERT T. WAYSAN LICENSED PROFESSIONAL ENGINEER No. 4560-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
6-15-95

DATE	REVISION
6/15/95	Revised Begin Station for Portable Conc. Barrier
4/21/94	Replaced Type 4G Concrete Guardrail w/ Portable Concrete Barrier from Sta.7+90 to Sta.9+10. Added Conc. Guardrail Transition

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RELOCATED LIKELIKE HIGHWAY
STA. 9+00 TO STA. 18+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

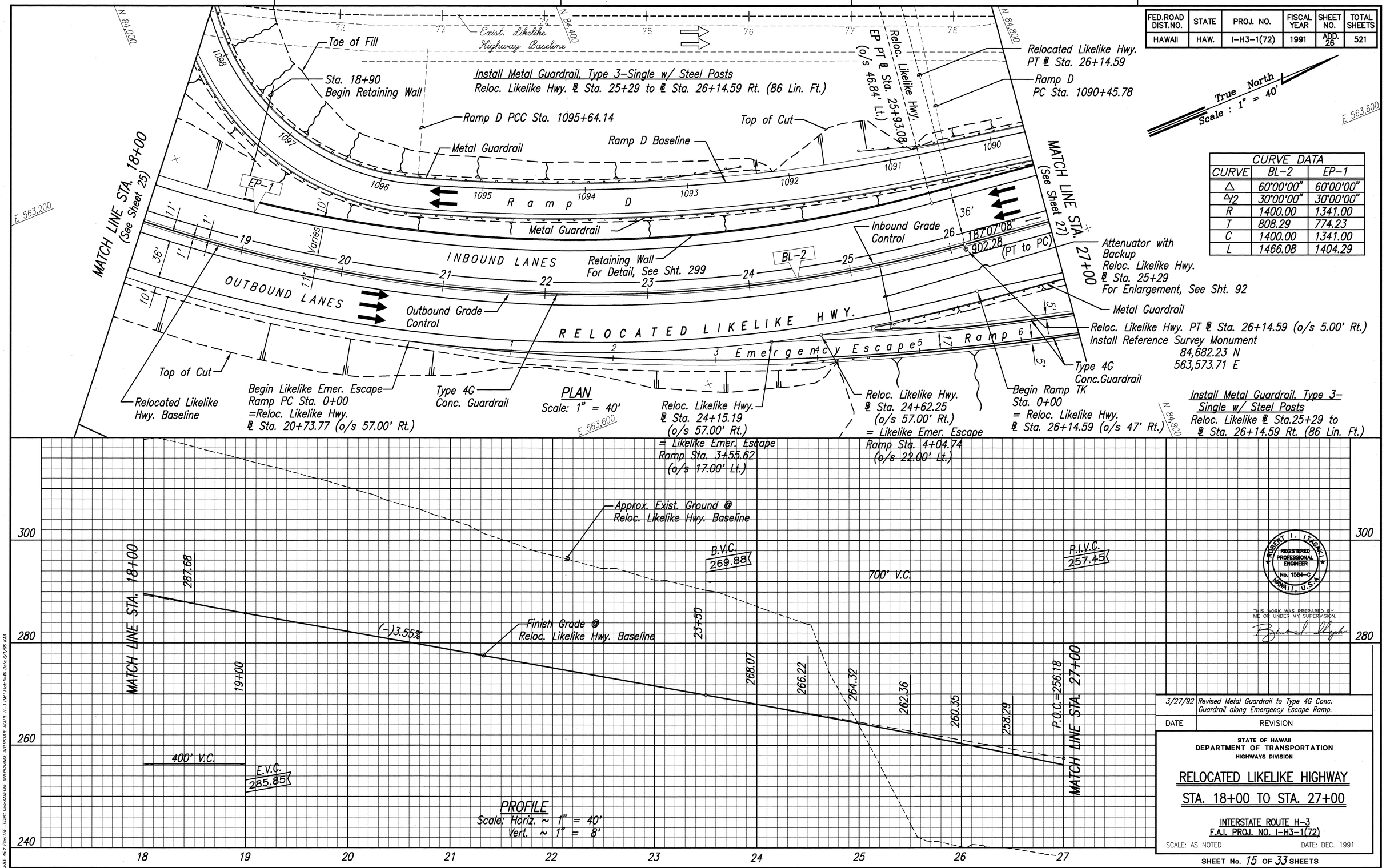
SCALE: AS NOTED DATE: DEC.1991

SHEET No. OF SHEETS
C.O. 25

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

A83-45.3 FILE-2.DWG D:\H-3 PRP 1=40 6/14/95 KAI

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 26	521



CURVE DATA		
CURVE	BL-2	EP-1
Δ	60°00'00"	60°00'00"
Δ/2	30°00'00"	30°00'00"
R	1400.00	1341.00
T	808.29	774.23
C	1400.00	1341.00
L	1466.08	1404.29

ROBERT I. TAOKA REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

DATE	REVISION
3/27/92	Revised Metal Guardrail to Type 4G Conc. Guardrail along Emergency Escape Ramp.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RELOCATED LIKELIKE HIGHWAY

STA. 18+00 TO STA. 27+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

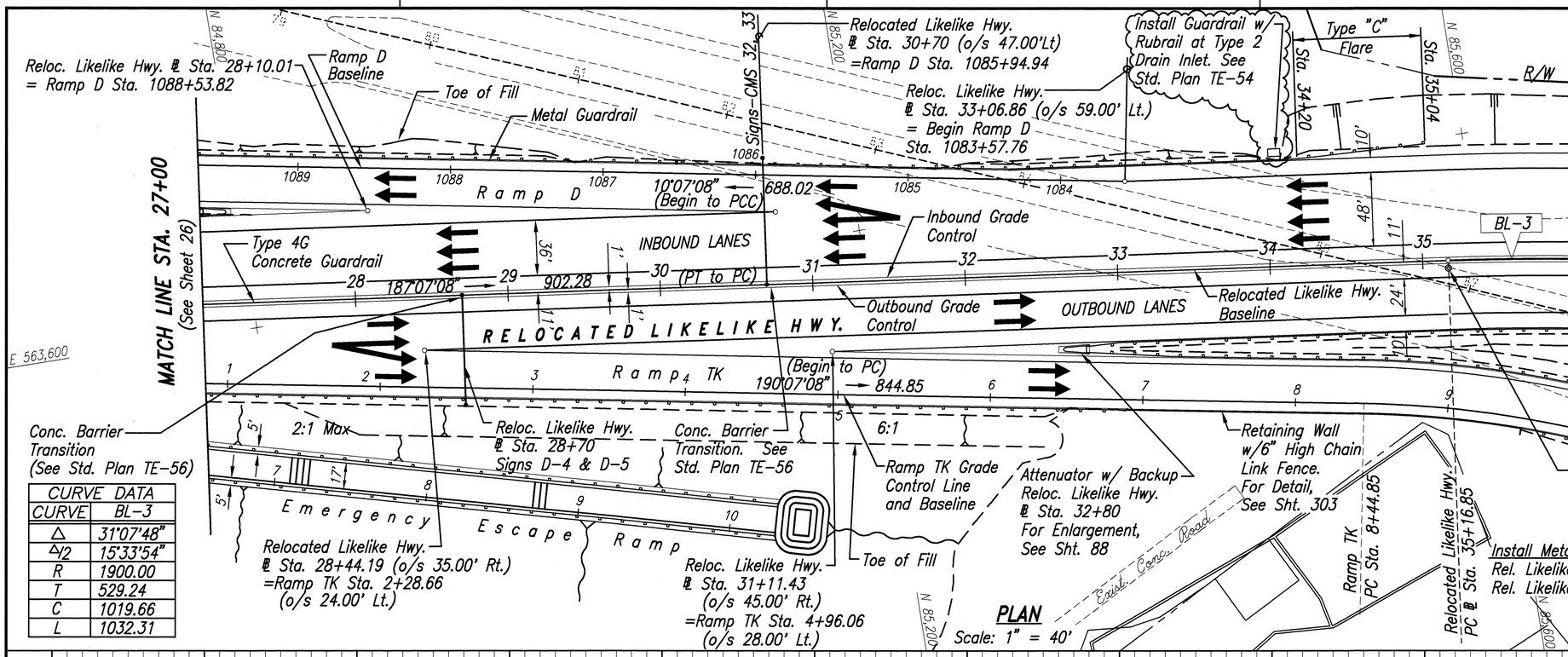
SHEET No. 15 OF 33 SHEETS

ADD. 26

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

J-83-45.7 File LUIE-3.DWG Disk:KANEOHE INTERCHANGE INTERSTATE ROUTE H-3 PAP Plot:1=40 Date:6/1/96 KAA

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD 27	521



CURVE DATA	
CURVE	BL-3
Δ	31°07'48"
Δ/2	15°33'54"
R	1900.00
T	529.24
C	1019.66
L	1032.31

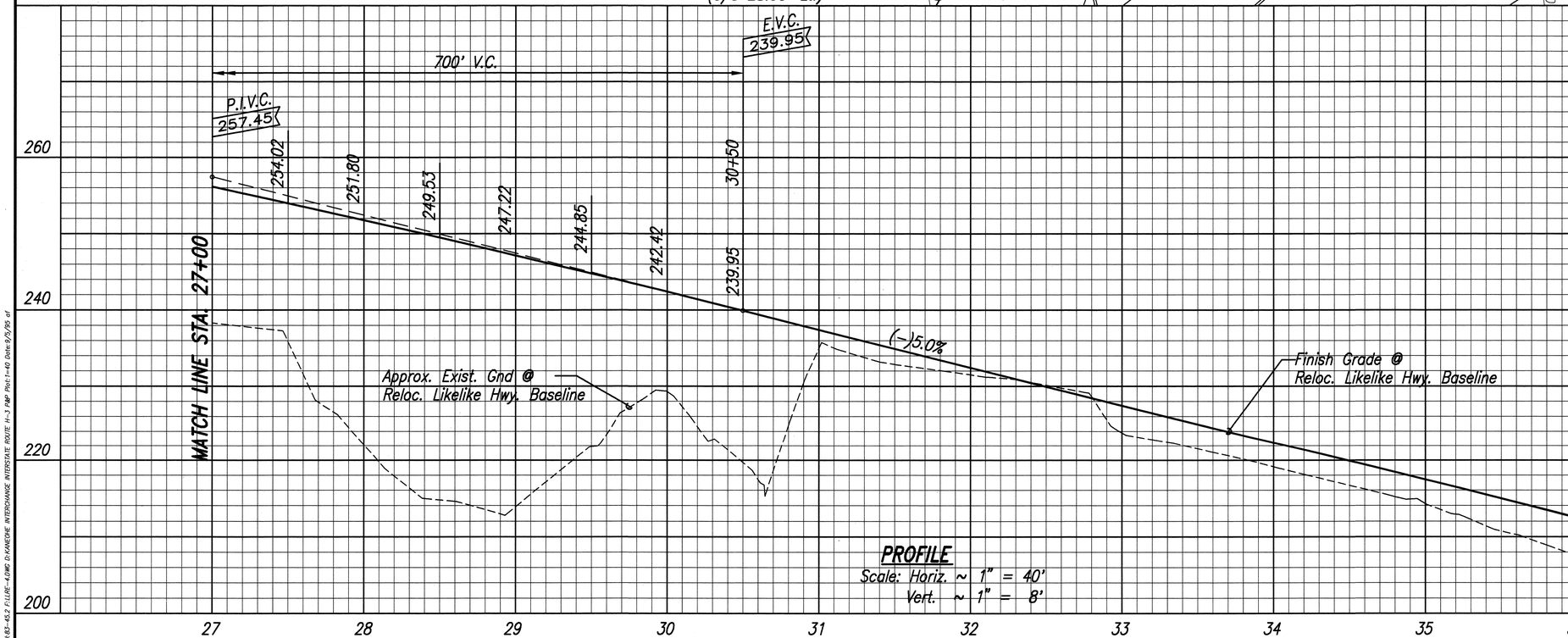
PLAN
Scale: 1" = 40'

℄ PC Sta. 35+16.85 (o/s 5.00' Rt.)
Install Reference Survey Monument
85,577.54 N
563,685.53 E

Install Metal Guardrail, Type 3 – Single w/ Steel Posts
Rel. Likelike Hwy. ℄ Sta. 35+04 to ℄ Sta. 33+06.86 Lt. (197 Lin. Ft.)
Rel. Likelike Hwy. ℄ Sta. 32+80 to ℄ Sta. 44+30 Rt. (1150 Lin. Ft.)

True North
Scale : 1" = 40'

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.35+16.85	85,578.16	563.680.57
PI	86.103.32	563,746.15
PCC Sta.45+49.16	86,518.94	564,073.80
Center of Curve	85,342.69	565,565.92



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

DATE	REVISION
1/27/92	Revised Right of Way @ Castle Hills Subd.
3/29/93	Revised grading @ TK Station 1+90± & ℄ Sta. 33+00 to 36+00
5/10/93	Revised Guardrail @ Reloc. Likelike Sta. 33+56 Lt. to 35+04 Lt.
9/5/95	Added Installation of Guardrail w/ Rubrail at Type 2 Drain Inlet, Sta. 34+05 Lt.

ARNOLD H. FUKUMOTO LICENSED PROFESSIONAL ENGINEER No. 6363-C HAWAII, U.S.A.

ROBERT T. ITAGAKI REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Arnold Fukumoto

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RELOCATED LIKELIKE HIGHWAY

STA. 27+00 TO STA. 36+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

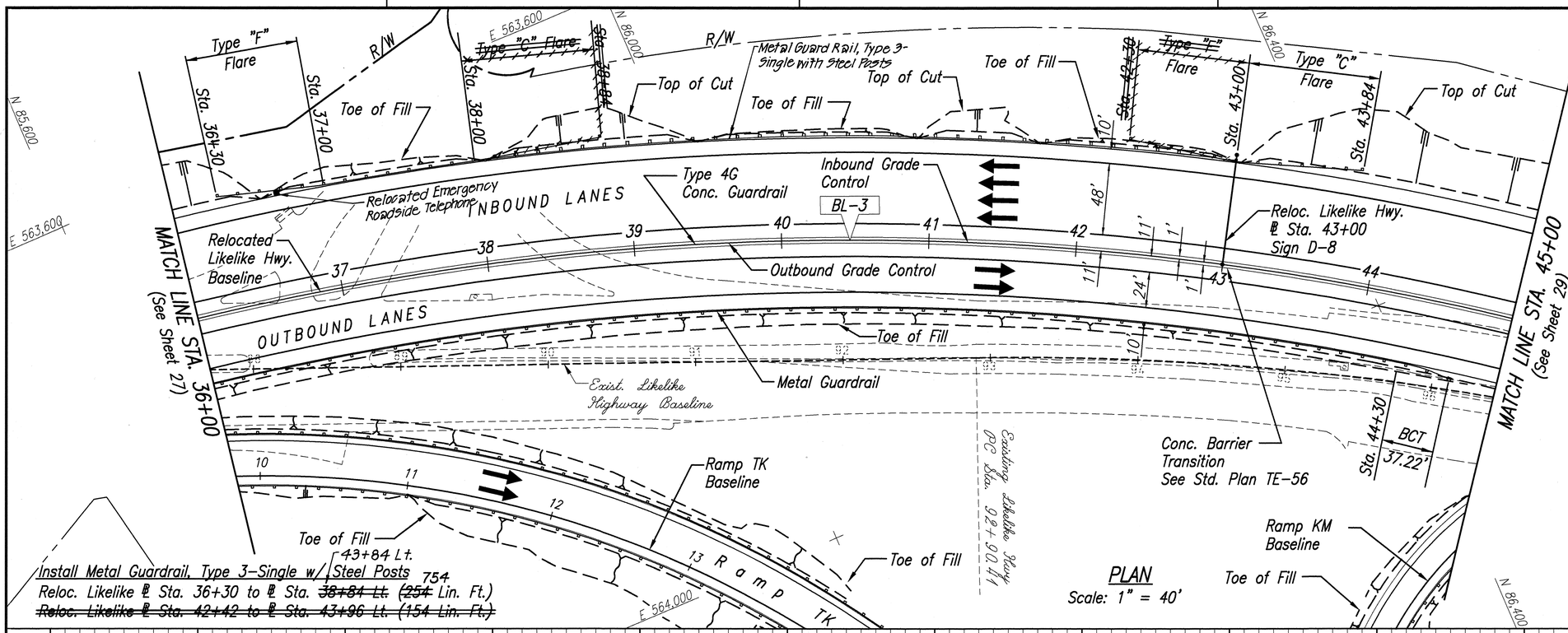
SHEET No. OF SHEETS

C.O. ADD. 27

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

A82-42.2 FILURE-4.DWG DIAMONE INTERCHANE INTERSTATE ROUTE H-3 IMP Plot:1-40 Date:9/5/95 of

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	ADD. 28	521

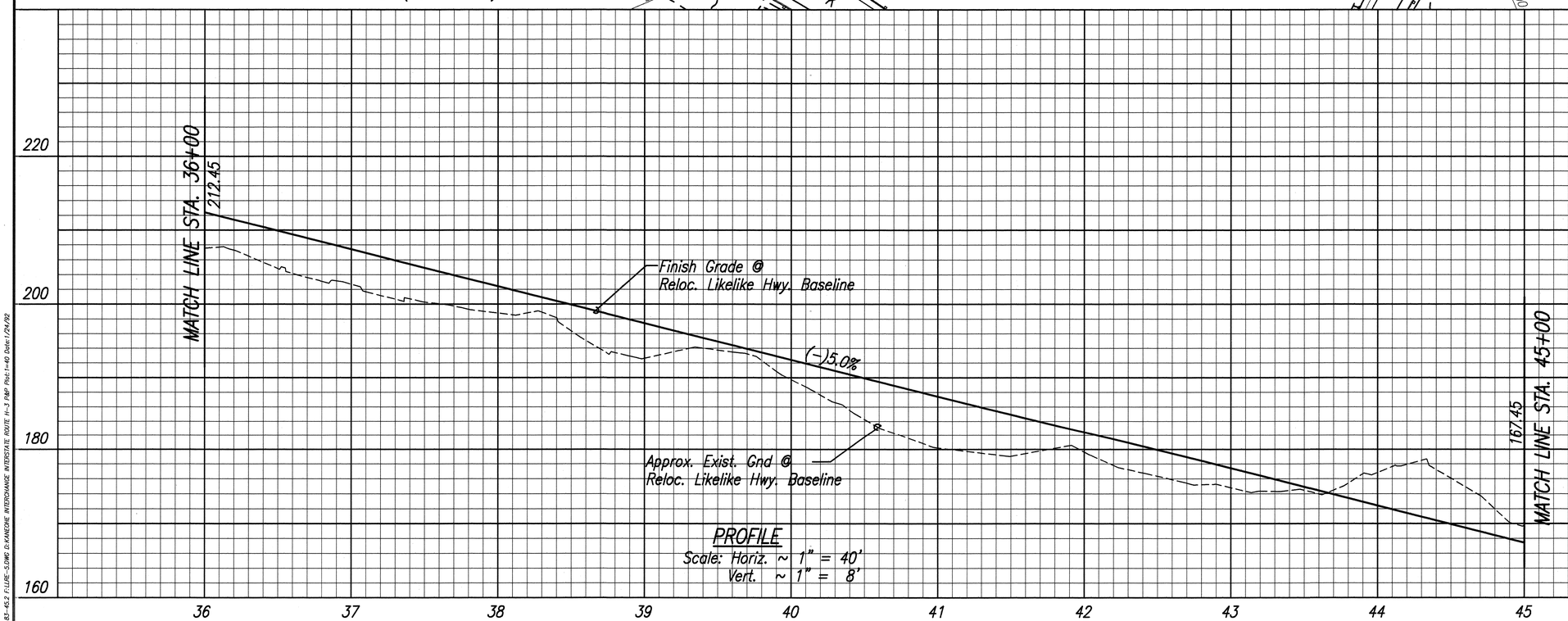


Install Metal Guardrail, Type 3-Single w/ Steel Posts 754
Reloc. Likelike ℄ Sta. 36+30 to ℄ Sta. ~~38+84 Lt.~~ ~~(254~~ Lin. Ft.)
~~Reloc. Likelike ℄ Sta. 42+42 to ℄ Sta. 43+96 Lt. (154 Lin. Ft.)~~

PLAN
Scale: 1" = 40'

CURVE DATA	
CURVE	BL-3
Δ	31°07'48"
Δ/2	15°33'54"
R	1900.00
T	529.24
C	1019.66
L	1032.31

DATE	REVISION
1/27/92	Revised Right of Way @ Castle Hills Subd.



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RELOCATED LIKELIKE HIGHWAY
STA. 36+00 TO STA. 45+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

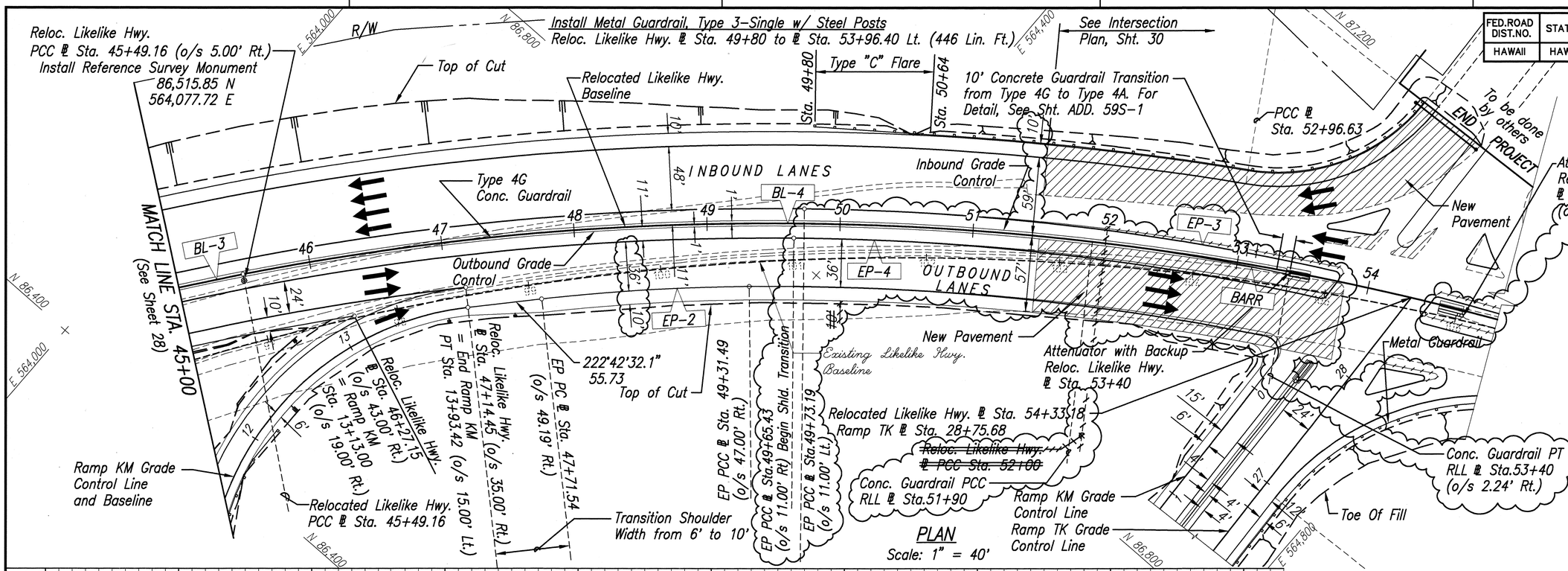
SHEET No. OF SHEETS

ADD. 28

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

J-83-46.2 FILE-5.DWG DX-RANDOME INTERCHANGE INTERSTATE ROUTE H-3 P&P Plot:1=40 Date:1/24/92

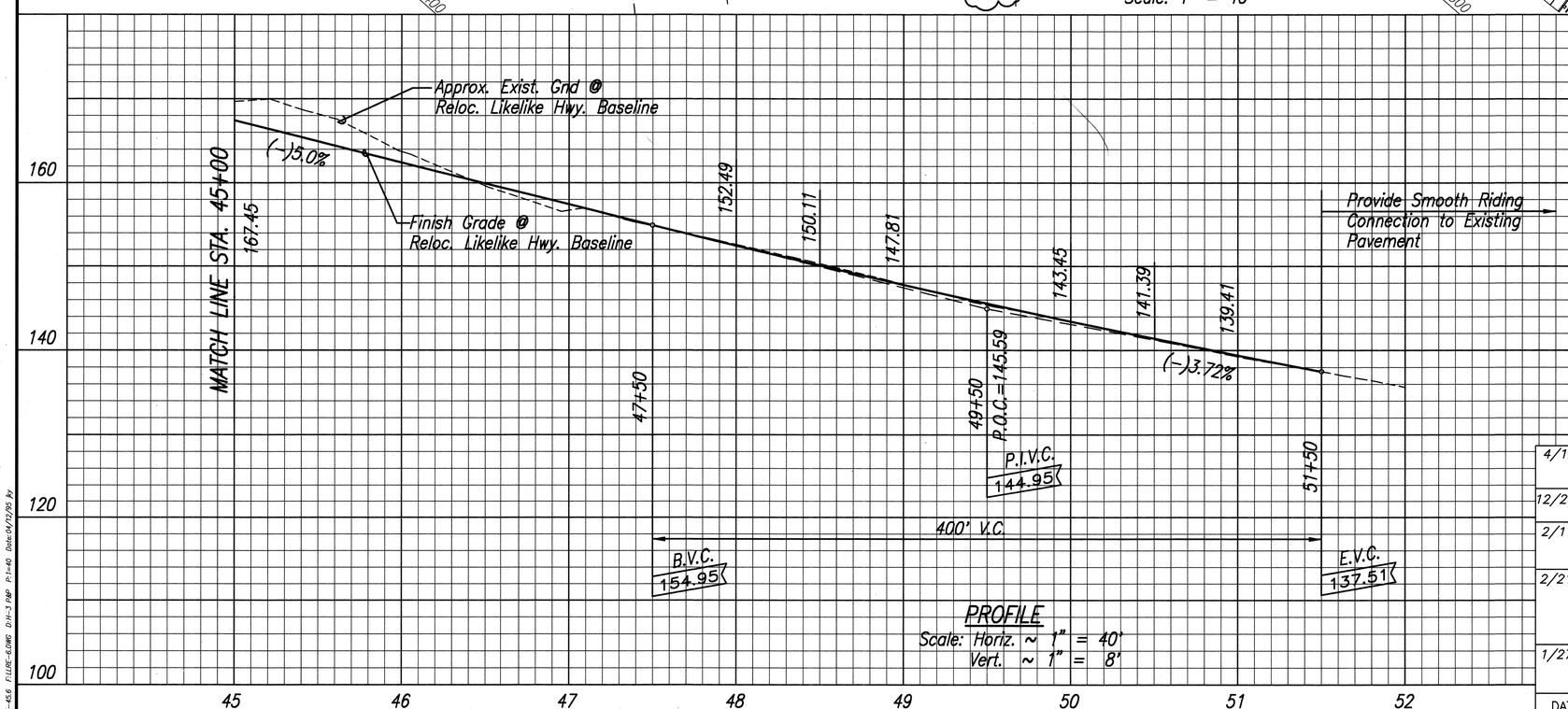
FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 29	521



PLAN
Scale: 1" = 40'

CURVE DATA		
CURVE	BL-3	BL-4
Δ	31°07'48"	40°13'08"
Δ/2	15°33'54"	20°06'34"
R	1900.00	2100.00
T	529.24	768.88
C	1019.66	1444.02
L	1032.31	1474.10
CURVE	EP-2	EP-3
Δ	5°58'18"	12°04'10"
Δ/2	2°59'09"	6°02'05"
R	1500.00	1910.00
T	78.24	201.92
C	156.26	401.60
L	156.34	402.35
CURVE	EP-4	BARR
Δ	12°05'15"	5°48'21"
Δ/2	6°02'38"	2°54'10"
R	1890.00	1480.00
T	200.11	75.05
C	397.99	149.90
L	398.73	149.97

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PCC Sta.45+49.16	86,518.94	564,073.80
PI	87,122.77	564,549.80
PT Sta.60+23.26	87,276.48	565,303.16
Center of Curve	85,218.88	565,722.99



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

DATE	REVISION
4/12/95	Revised Median Edge Pavement, Island at Ramp TK/Likelike Hwy. Intersection and Location of Conc. Guardrail at Intersection.
12/20/93	Revised Right-of-Way. Deleted Attenuator and Temporary Geotextile Wall.
2/17/93	Revised Edge Pav't Radius and Added Channelizing Island at Ramp TK/Reloc. Likelike Intersection.
2/21/92	Revised retain. wall callout to Temporary Geotextile Wall & continued wall across End of Project to exist. Kahekili Hwy. Revised o/s @ Sta. 49+31.49 to 47' Rt. Added Sta. callout for Type "C" Flare.
1/27/92	Revised retaining wall callout. Deleted attenuator outside of project. Added callout for guardrail transition.

ROBERT I. IYAGAKI REGISTERED PROFESSIONAL ENGINEER No. 1564-C HAWAII, U.S.A.

ROBERT T. WATARI LICENSED PROFESSIONAL ENGINEER No. 4560-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
4-12-90

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RELOCATED LIKELIKE HIGHWAY
STA. 45+00 TO STA. 51+50

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

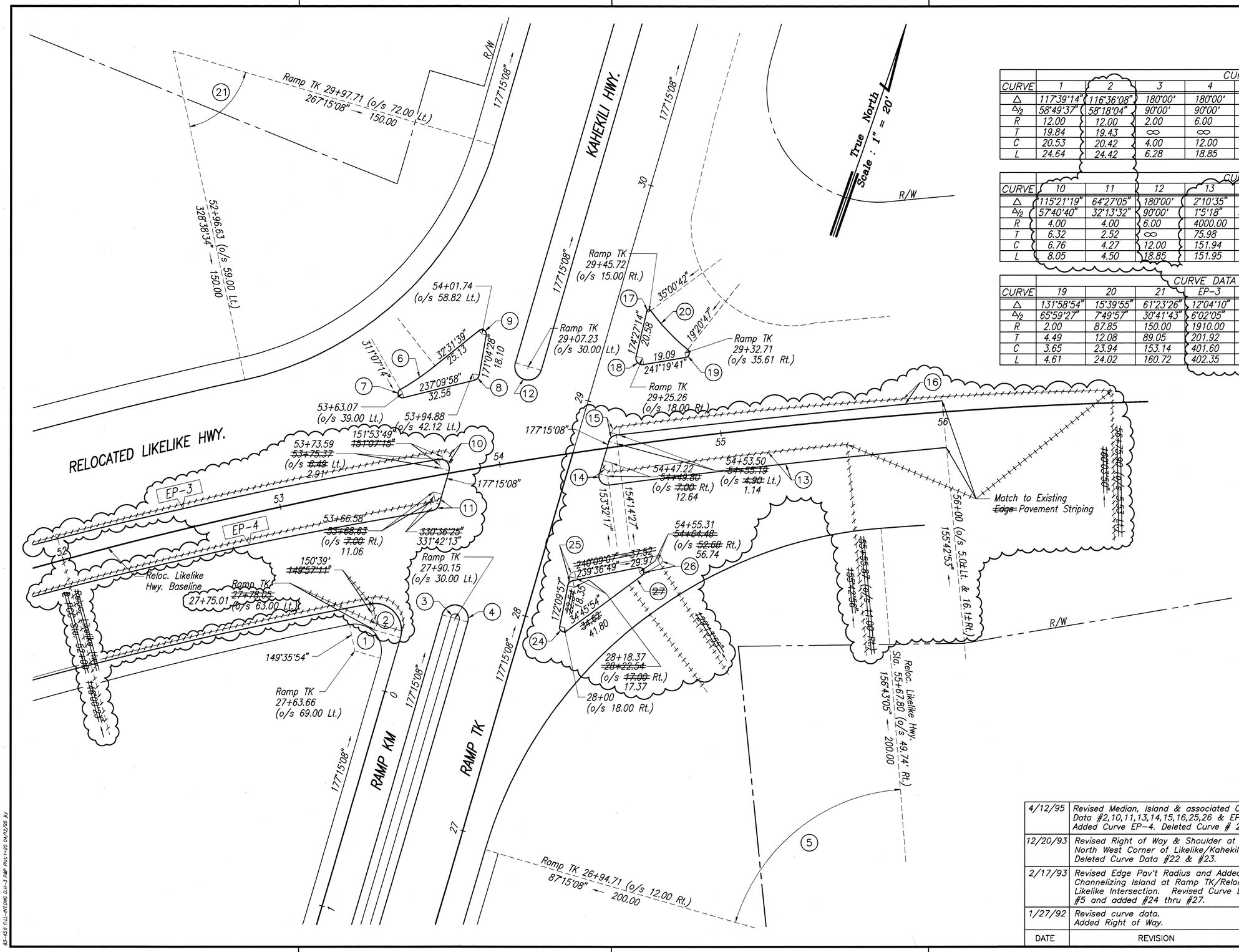
SHEET No. OF SHEETS

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

85-456 FIGURE-6.DWG DH-3 PAP P:1=40 Date:04/12/95 by

C.O. ADD. 29

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O.ADD. 30	521



CURVE	1	2	3	4	5	6	7	8	9
Δ	117°39'14"	116°36'08"	180°00'	180°00'	69°27'57"	8°35'36"	163°57'16"	66°05'31"	138°32'49"
Δ/2	58°49'37"	58°18'04"	90°00'	90°00'	34°43'58"	4°17'48"	81°58'38"	33°02'45"	69°16'24"
R	12.00	12.00	2.00	6.00	200.00	125.88	2.00	3.00	2.00
T	19.84	19.43	∞	∞	138.66	9.46	14.19	1.95	5.29
C	20.53	20.42	4.00	12.00	227.90	18.86	3.96	3.27	3.74
L	24.64	24.42	6.28	18.85	242.48	18.88	5.72	3.46	4.84

CURVE	10	11	12	13	14	15	16	17	18
Δ	115°21'19"	64°27'05"	180°00'	2°10'35"	113°42'51"	66°59'19"	1°28'26"	130°33'28"	113°07'33"
Δ/2	57°40'40"	32°13'32"	90°00'	1°5'18"	56°51'25"	33°29'39"	0°44'13"	65°16'44"	56°33'46"
R	4.00	4.00	6.00	4000.00	4.00	4.00	5700.00	1.00	3.00
T	6.32	2.52	∞	75.98	6.13	2.65	73.32	2.17	4.54
C	6.76	4.27	12.00	151.94	6.70	4.41	146.62	1.82	5.01
L	8.05	4.50	18.85	151.95	7.94	4.68	146.62	2.28	5.92

CURVE	19	20	21	EP-3	EP-4	24	25	26	~~27~~
Δ	131°58'54"	15°39'55"	61°23'26"	12°04'10"	12°05'15"	137°24'02"	67°26'52"	155°09'06"	~~4°28'01"~~
Δ/2	65°59'27"	7°49'57"	30°41'43"	6°02'05"	6°02'38"	68°42'01"	33°43'26"	77°34'33"	~~2°14'00"~~
R	2.00	87.85	150.00	1910.00	1890.00	2.00	3.00	2.00	~~216.00~~
T	4.49	12.08	89.05	201.92	200.11	5.13	2.00	9.08	~~8.42~~
C	3.65	23.94	153.14	401.60	397.99	3.73	3.33	3.91	~~16.84~~
L	4.61	24.02	160.72	402.35	398.73	4.80	3.53	5.42	~~16.84~~

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

ROBERT T. WATARI
LICENSED PROFESSIONAL ENGINEER
No. 4560-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Robert T. Watari
4-12-95

DATE	REVISION
4/12/95	Revised Median, Island & associated Curve Data #2,10,11,13,14,15,16,25,26 & EP-3. Added Curve EP-4. Deleted Curve # 27.
12/20/93	Revised Right of Way & Shoulder at the North West Corner of Likelike/Kahekili. Deleted Curve Data #22 & #23.
2/17/93	Revised Edge Pav't Radius and Added Channelizing Island at Ramp TK/Reloc. Likelike Intersection. Revised Curve Data #5 and added #24 thru #27.
1/27/92	Revised curve data. Added Right of Way.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INTERSECTION GEOMETRIC LAYOUT
RELOCATED LIKELIKE HIGHWAY

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: 1" = 20' DATE: DEC. 1991

SHEET No. OF SHEETS

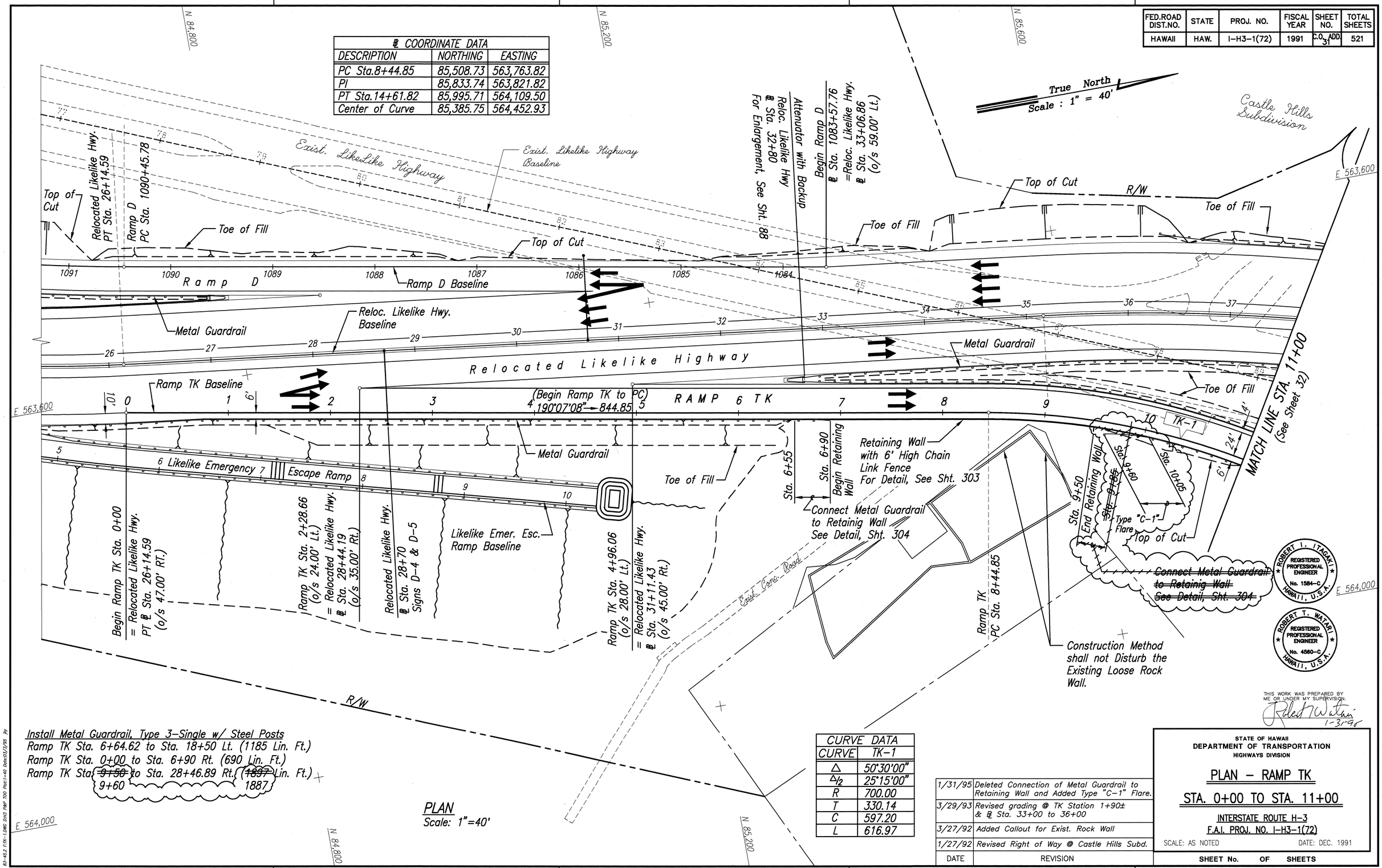
C.O. ADD. 30

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

83-456 FILE-HITOMO D/H-1 PAP Plot1=20 04/12/95 by

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD 31	521

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.8+44.85	85,508.73	563,763.82
PI	85,833.74	563,821.82
PT Sta.14+61.82	85,995.71	564,109.50
Center of Curve	85,385.75	564,452.93



Install Metal Guardrail, Type 3-Single w/ Steel Posts
Ramp TK Sta. 6+64.62 to Sta. 18+50 Lt. (1185 Lin. Ft.)
Ramp TK Sta. 0+00 to Sta. 6+90 Rt. (690 Lin. Ft.)
Ramp TK Sta. ~~9+50~~ 9+60 to Sta. 28+46.89 Rt. (~~1897~~ 1887 Lin. Ft.)

PLAN
Scale: 1"=40'

CURVE DATA	
CURVE	TK-1
Δ	50°30'00"
Δ/2	25°15'00"
R	700.00
T	330.14
C	597.20
L	616.97

DATE	REVISION
1/31/95	Deleted Connection of Metal Guardrail to Retaining Wall and Added Type "C-1" Flare.
3/29/93	Revised grading @ TK Station 1+90± & ℄ Sta. 33+00 to 36+00
3/27/92	Added Callout for Exist. Rock Wall
1/27/92	Revised Right of Way @ Castle Hills Subd.

ROBERT T. ITAGAKI REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

ROBERT T. WATARI REGISTERED PROFESSIONAL ENGINEER No. 4560-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Robert T. Watari 1-31-95

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN – RAMP TK

STA. 0+00 TO STA. 11+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

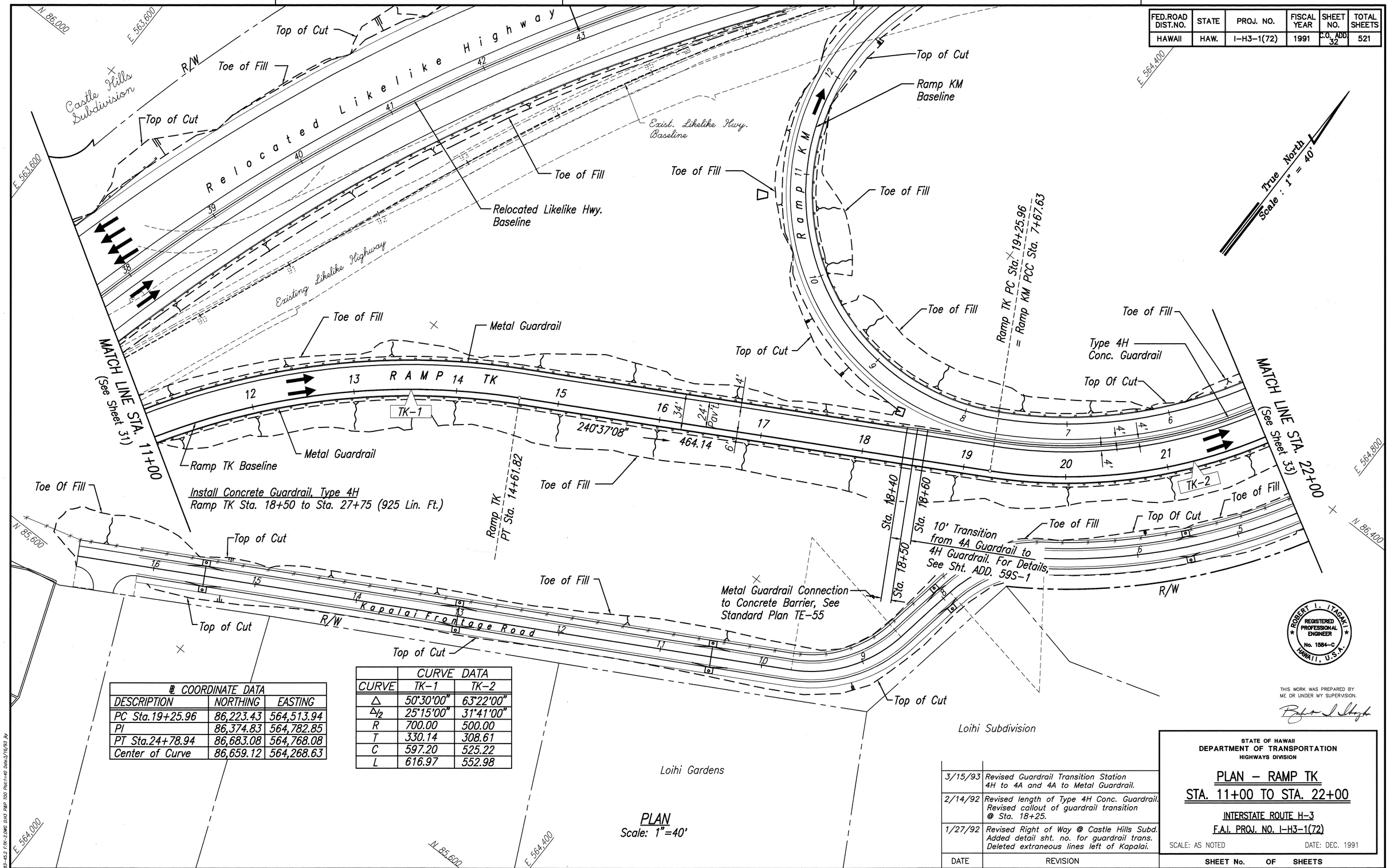
SHEET No. OF SHEETS

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

83-42.2 F:\Dk-1.DWG Dist PAP TOD Plot1=40 Date03/29/95 By

C.O. ADD. 31

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 32	521



℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.19+25.96	86,223.43	564,513.94
PI	86,374.83	564,782.85
PT Sta.24+78.94	86,683.08	564,768.08
Center of Curve	86,659.12	564,268.63

	CURVE DATA	
CURVE	TK-1	TK-2
Δ	50°30'00"	63°22'00"
Δ/2	25°15'00"	31°41'00"
R	700.00	500.00
T	330.14	308.61
C	597.20	525.22
L	616.97	552.98

PLAN
Scale: 1"=40'

DATE	REVISION
3/15/93	Revised Guardrail Transition Station 4H to 4A and 4A to Metal Guardrail.
2/14/92	Revised length of Type 4H Conc. Guardrail. Revised callout of guardrail transition @ Sta. 18+25.
1/27/92	Revised Right of Way @ Castle Hills Subd. Added detail sht. no. for guardrail trans. Deleted extraneous lines left of Kapalai.

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN – RAMP TK
STA. 11+00 TO STA. 22+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

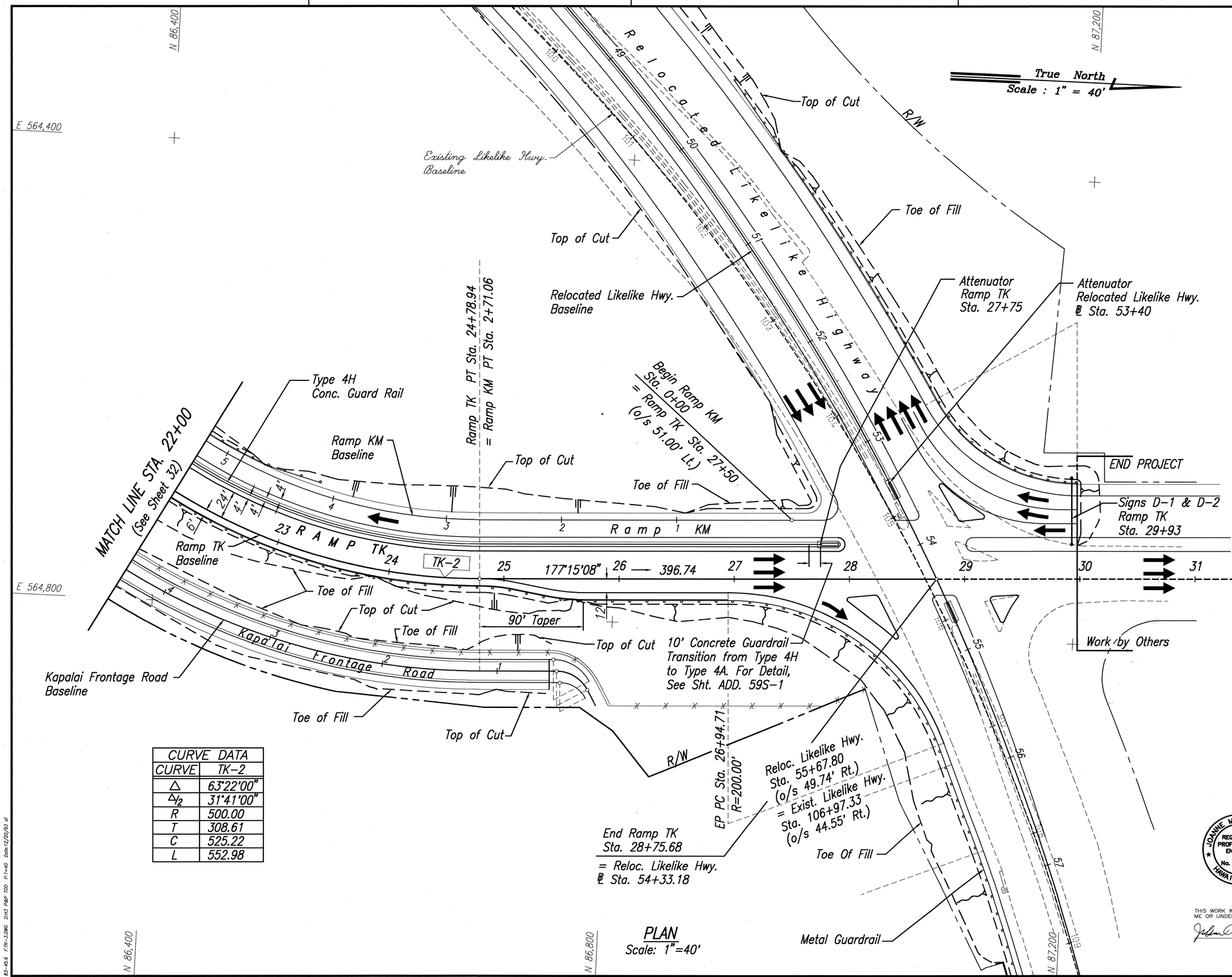
SHEET No. OF SHEETS

C.O. ADD. 32

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

83-45.2 F/R-2.DWG DGS PMP TGD Plot:1=40 Date:3/16/93 By

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 33	521



CURVE DATA	
CURVE	TK-2
Δ	63°22'00"
Δ/2	31°41'00"
R	500.00
T	308.61
C	525.22
L	552.98

PLAN
Scale: 1"=40'

12/15/93	Revised Sign D-1 & D-2 and Right-of-Way & Shoulder at the corner of Kahekili/Likelike. Deleted Attenuator and Temp Geotextile Wall.
2/17/93	Revised Edge Pav't Radius and Added Channelizing Island at Ramp TK/Reloc. Likelike Intersection.
3/27/92	Deleted Quantity callout
2/21/92	Revised retaining wall callout to Temporary Geotextile Wall. Revised Notes.
1/27/92	Revised retaining wall callout and added corresponding note. Deleted attenuator outside of project. Added callout for guardrail transition.
DATE	REVISION

JOANNE M. NAKAMURA
REGISTERED PROFESSIONAL ENGINEER
No. 5796-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN – RAMP TK

STA. 22+00 TO STA. 28+75.68

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

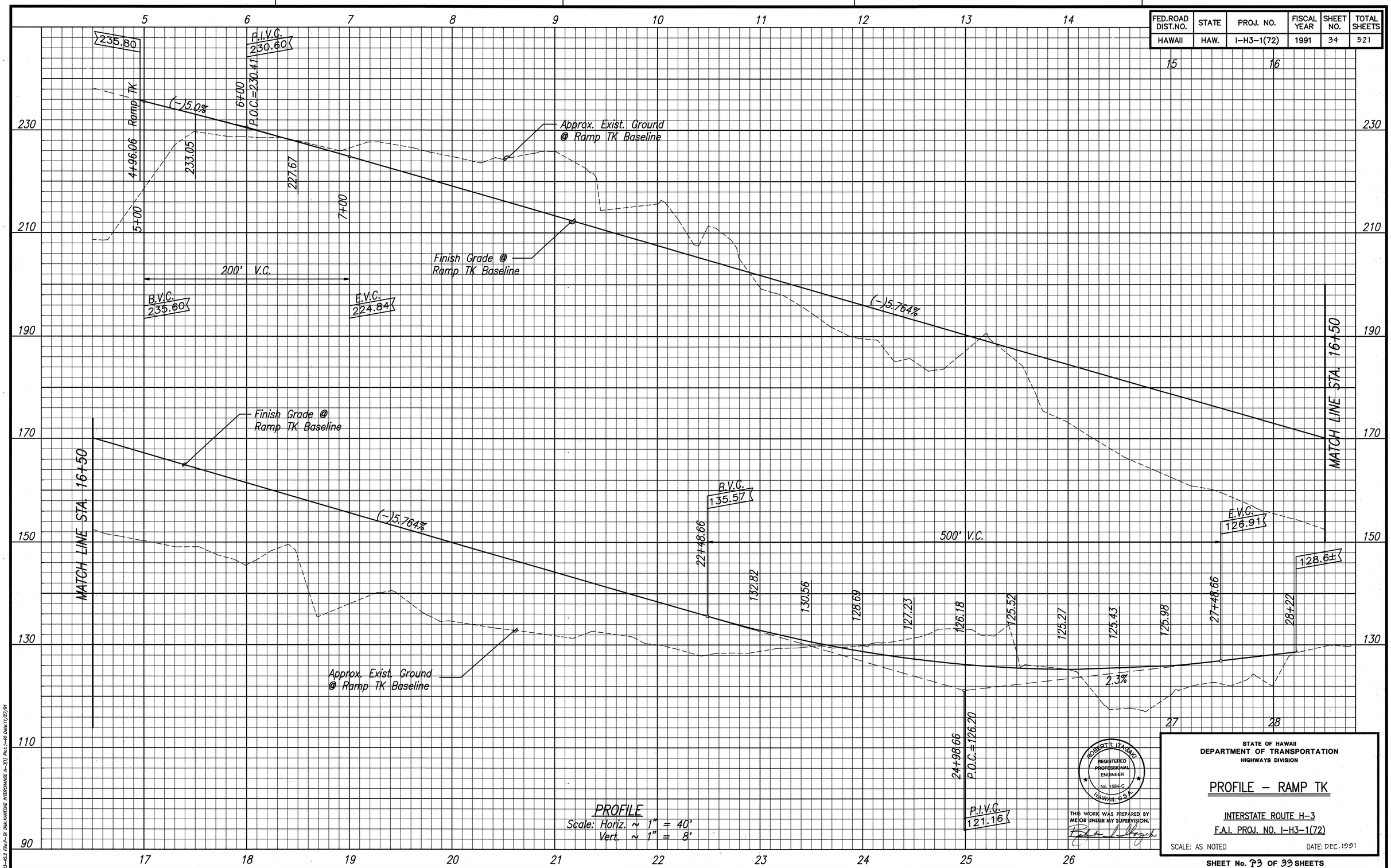
SHEET No. OF SHEETS

C.O. ADD. 33

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

83-45.6 F/R-3.0WS D/43 P&M 7/93 P/I=40 Date:12/20/93 sf

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	34	521



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

ROBERT H. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE – RAMP TK

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

SHEET No. 23 OF 33 SHEETS

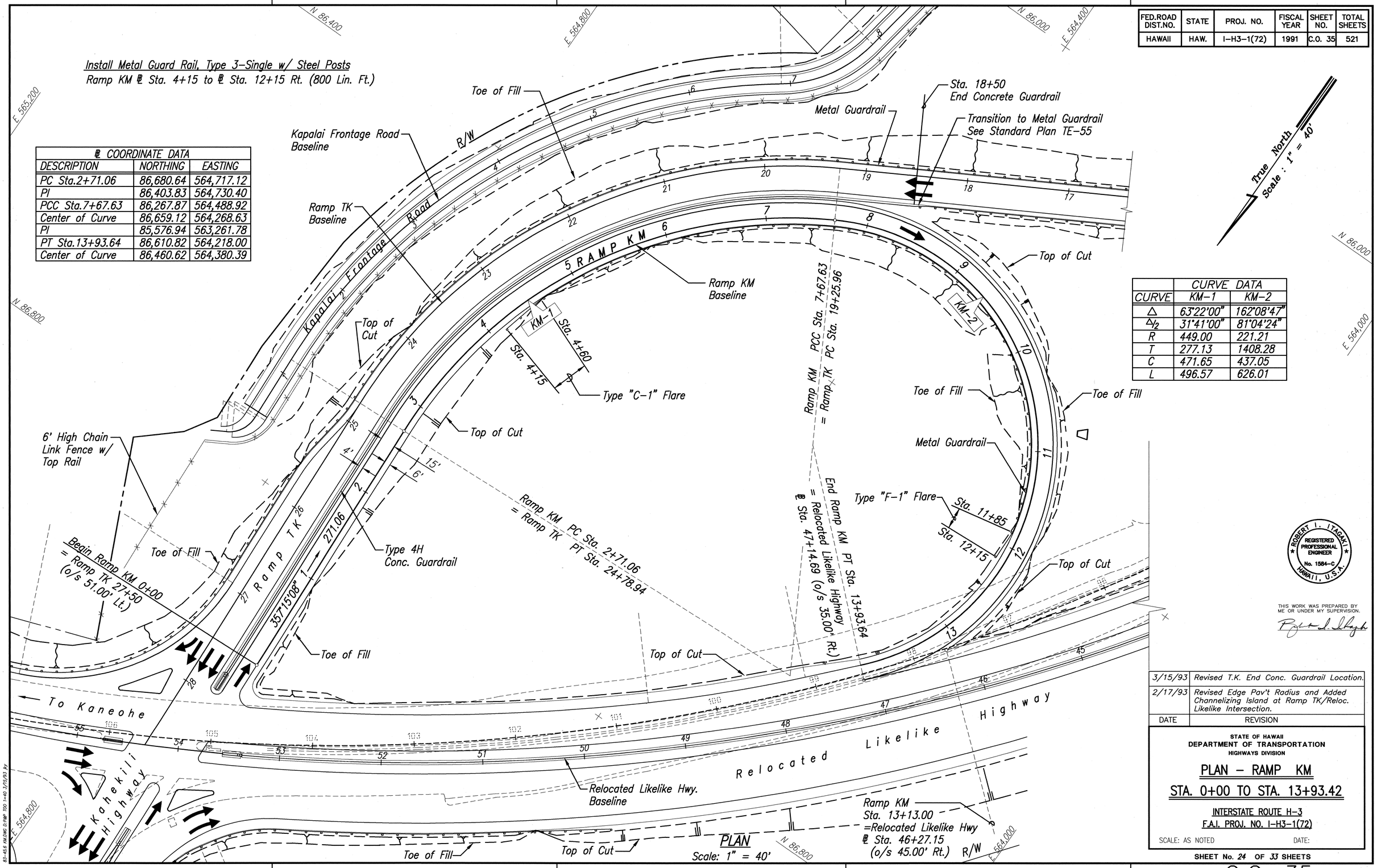
ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

83-463 File P-TK Disk KAMEONE INTERCHANGE H-1(1) Plot 1=40 Date 11/27/91

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 35	521

Install Metal Guard Rail, Type 3-Single w/ Steel Posts
Ramp KM ℄ Sta. 4+15 to ℄ Sta. 12+15 Rt. (800 Lin. Ft.)

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.2+71.06	86,680.64	564,717.12
PI	86,403.83	564,730.40
PCC Sta.7+67.63	86,267.87	564,488.92
Center of Curve	86,659.12	564,268.63
PI	85,576.94	563,261.78
PT Sta.13+93.64	86,610.82	564,218.00
Center of Curve	86,460.62	564,380.39



CURVE DATA		
CURVE	KM-1	KM-2
Δ	63°22'00"	162°08'47"
Δ/2	31°41'00"	81°04'24"
R	449.00	221.21
T	277.13	1408.28
C	471.65	437.05
L	496.57	626.01

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

DATE	REVISION
3/15/93	Revised T.K. End Conc. Guardrail Location.
2/17/93	Revised Edge Pav't Radius and Added Channelizing Island at Ramp TK/Reloc. Likelike Intersection.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN - RAMP KM

STA. 0+00 TO STA. 13+93.42

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

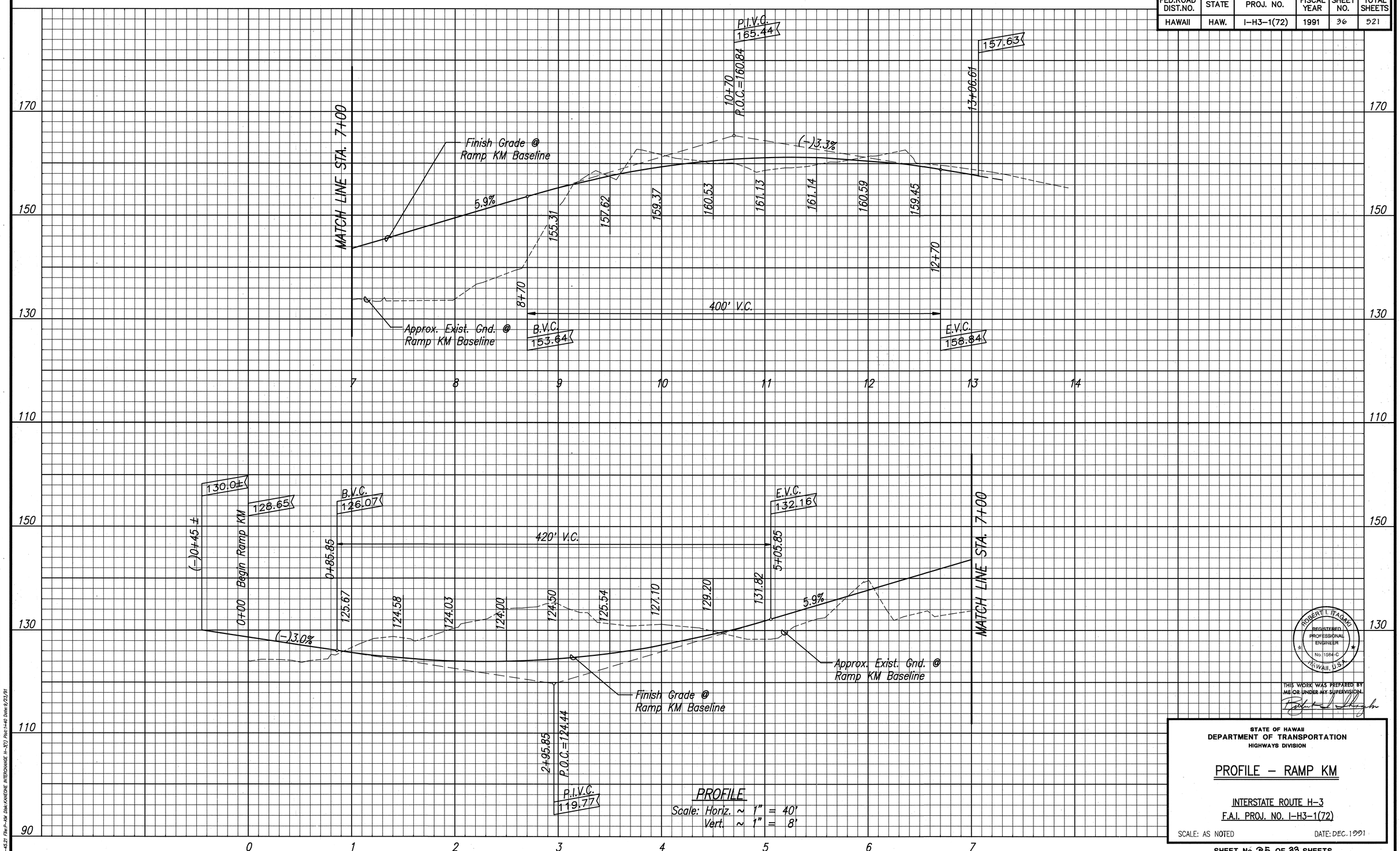
SCALE: AS NOTED DATE:

SHEET No. 24 OF 33 SHEETS

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

C.O. 35

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	36	521



ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE – RAMP KM

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

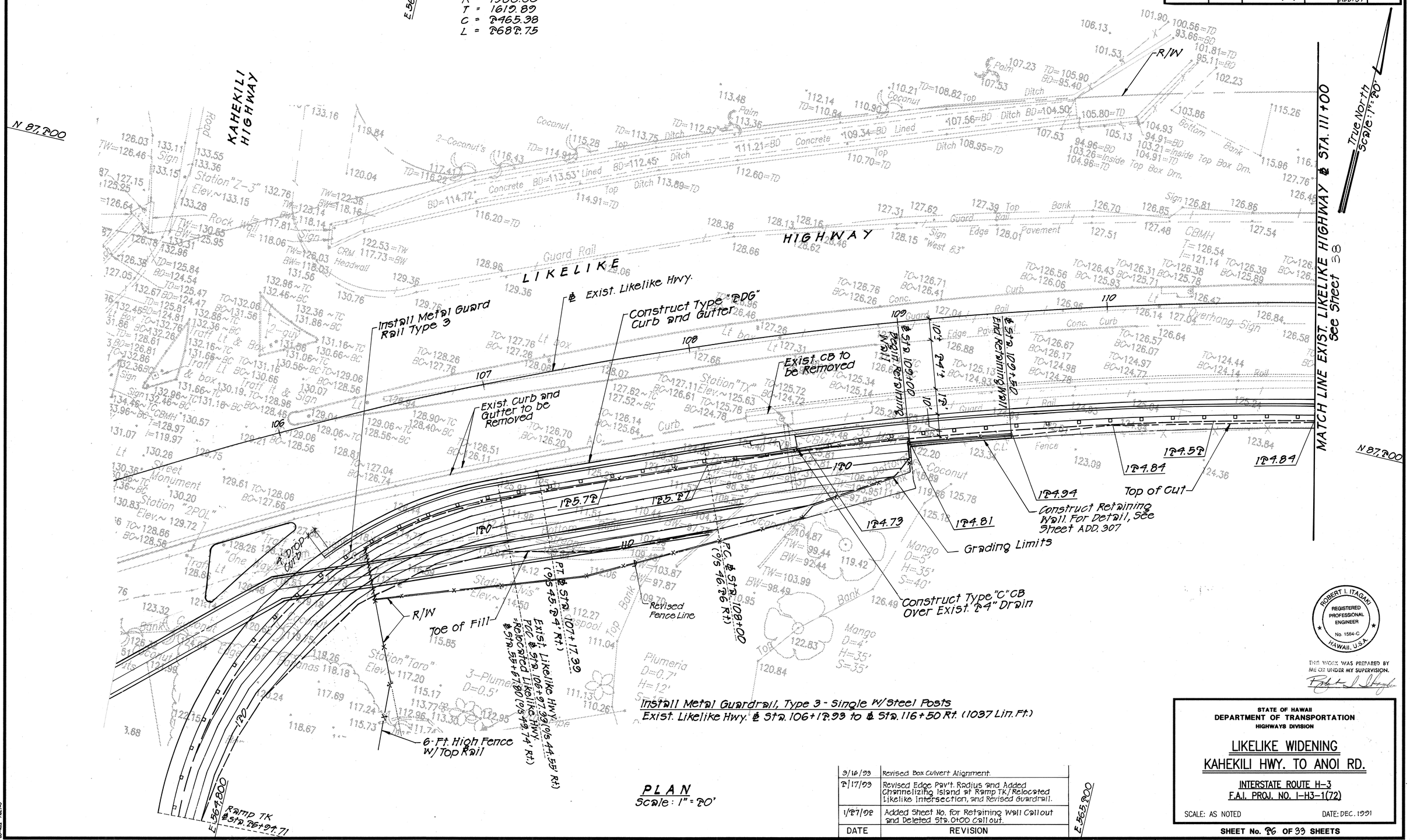
SHEET No. 25 OF 33 SHEETS

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

83-4531 (Rev 1-90) (Mkr:KAHOHE INTERCHANGE H-3(1) (Rev 1-4) Date:9/23/91)

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 37	521

℄ CURVE DATA
Exist. Likelike Hwy.
Δ = 80° 54' 00"
R = 1900.00
T = 1619.89
C = 2465.38
L = 2682.75



PLAN
Scale: 1" = 20'

DATE	REVISION
3/16/99	Revised Box Culvert Alignment.
2/17/99	Revised Edge Pav't. Radius and Added Channelizing Island at Ramp TK/Relocated Likelike Intersection, and Revised Guardrail.
1/27/98	Added Sheet No. for Retaining Wall Callout and Deleted Sta. 0+00 Callout.

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

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIKELIKE WIDENING
KAHEKILI HWY. TO ANOI RD.

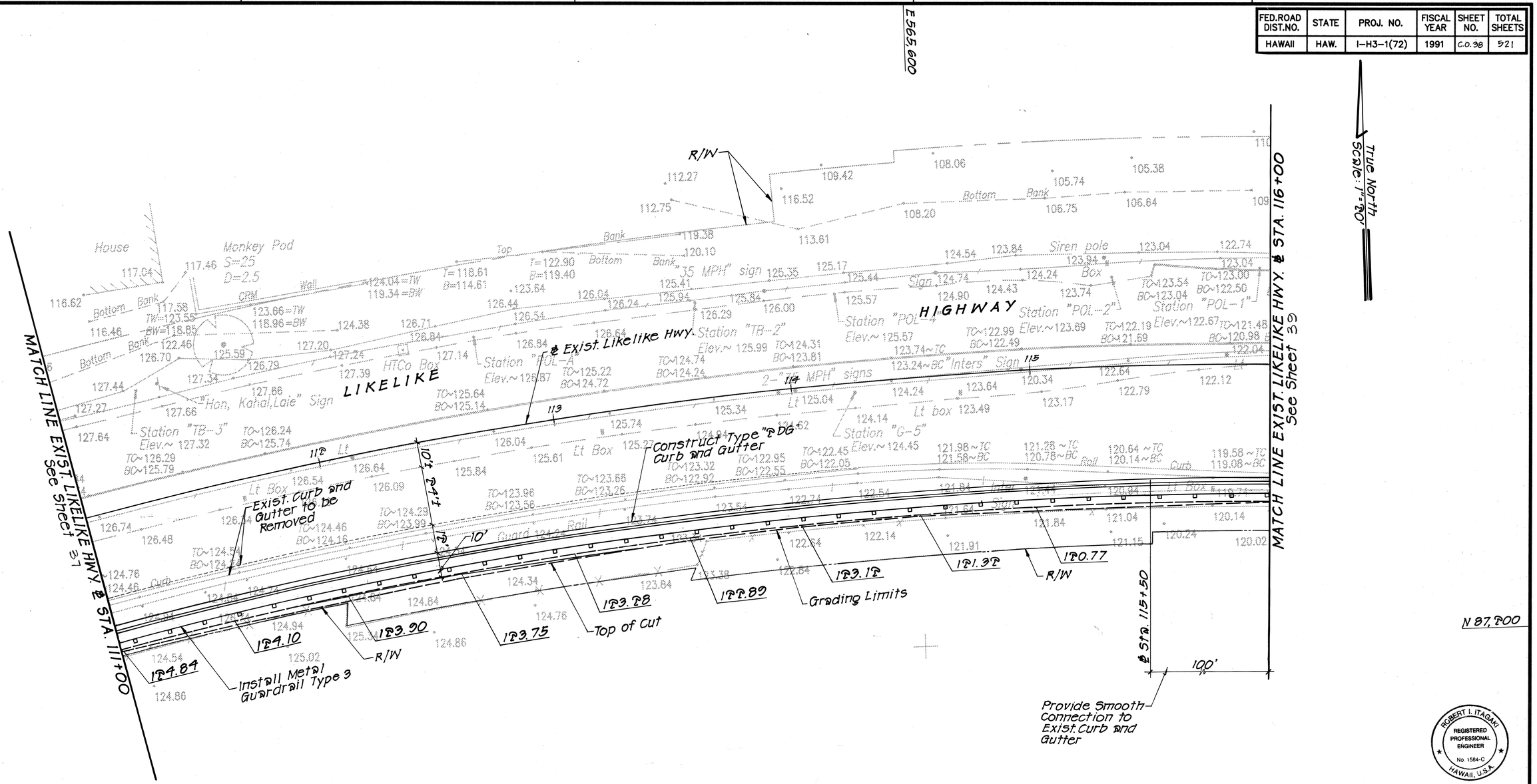
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED | DATE: DEC. 1991

SHEET No. 26 OF 39 SHEETS

C.O. ADD. 37

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O.38	921



PLAN
Scale: 1" = 20'

DATE	REVISION
8/17/99	Revised Metal Guardrail.

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIKELIKE WIDENING
KAHEKILI HWY. TO ANOI RD.

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED
DATE: DEC. 1991

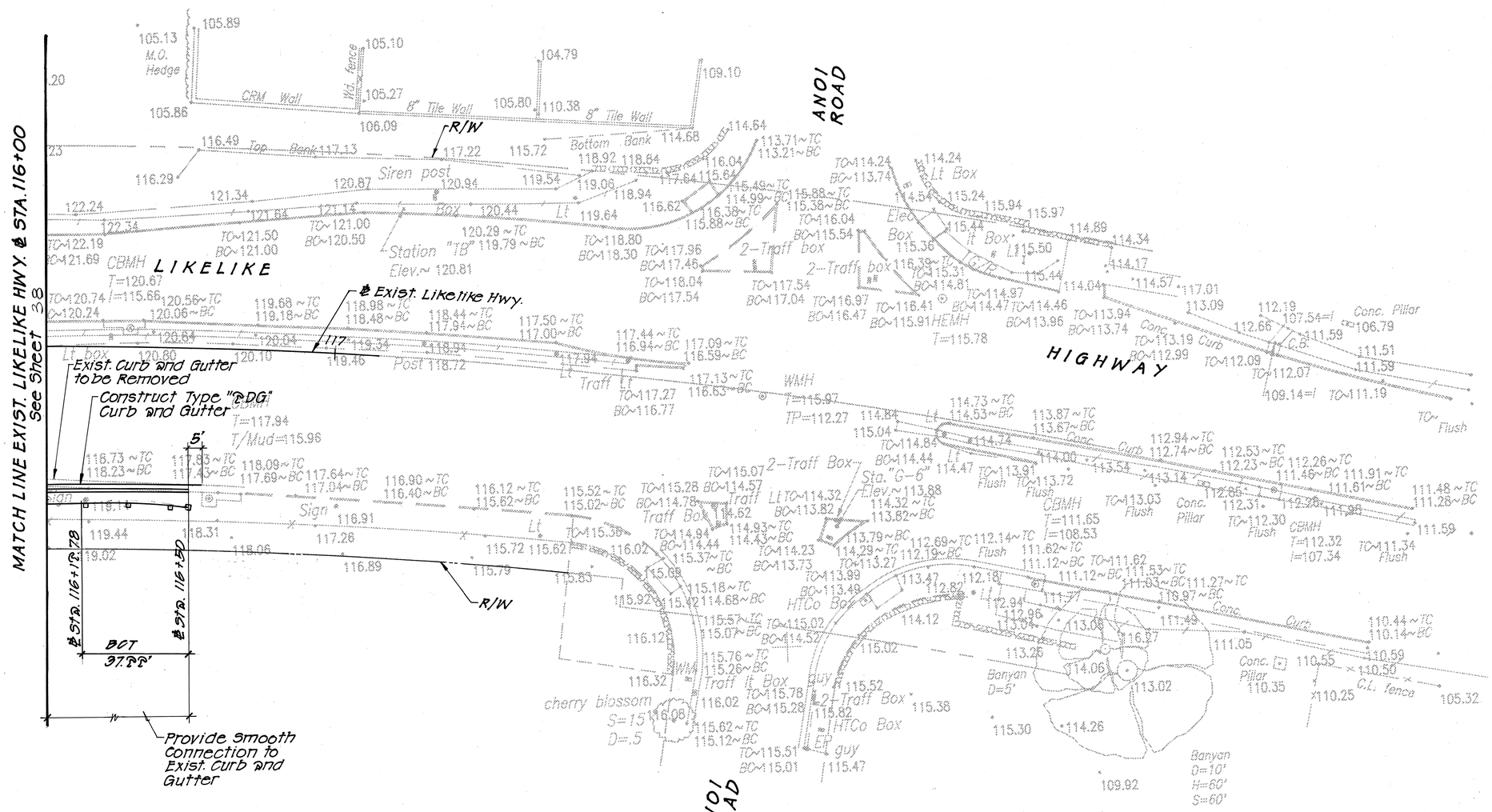
SHEET No. 27 OF 33 SHEETS

C.O.38

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

85-463 Rev1-5

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 39	521



PLAN
Scale: 1" = 20'

True North
Scale: 1" = 20'

DATE	REVISION
8/17/93	Revised Metal Guardrail

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIKELIKE WIDENING
KAHEKILI HWY. TO ANOI RD.

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED
DATE: DEC. 1991

SHEET No. 38 OF 33 SHEETS

C.O. 39

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

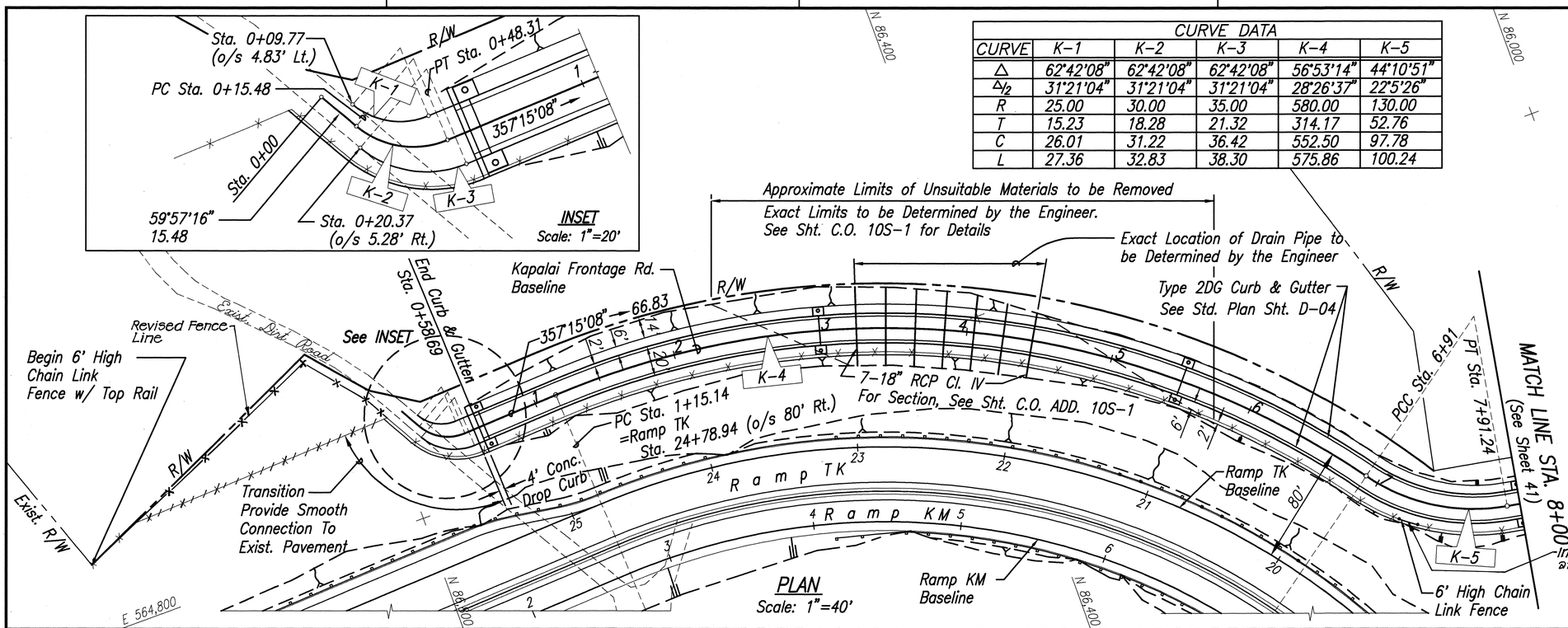
83-452 Rev1-5

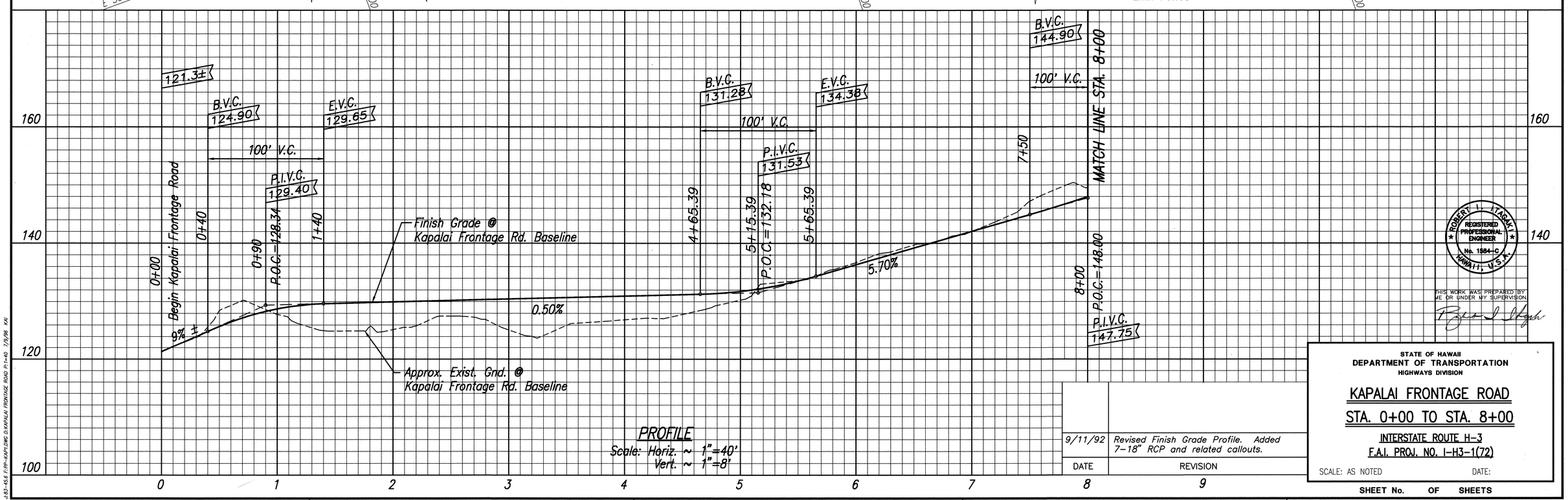
FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. 40	521

CURVE DATA					
CURVE	K-1	K-2	K-3	K-4	K-5
Δ	62°42'08"	62°42'08"	62°42'08"	56°53'14"	44°10'51"
Δ/2	31°21'04"	31°21'04"	31°21'04"	28°26'37"	22°5'26"
R	25.00	30.00	35.00	580.00	130.00
T	15.23	18.28	21.32	314.17	52.76
C	26.01	31.22	36.42	552.50	97.78
L	27.36	32.83	38.30	575.86	100.24

True North
Scale : 1" = 40'

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.0+15.48	86,781.08	564,859.71
PI	86,771.93	564,843.89
PT Sta.0+48.31	86,753.67	564,844.76
Center of Curve	86,755.11	564,874.73
PC Sta.1+15.14	86,686.92	564,847.97
PI	86,373.11	564,863.03
PCC Sta.6+91.00	86,189.06	564,608.41
Center of Curve	86,659.12	564,268.63
PI	86,158.21	564,565.73
PT Sta.7+91.24	86,106.37	564,556.55
Center of Curve	86,083.70	564,684.56





DATE	REVISION
9/11/92	Revised Finish Grade Profile. Added 7-18" RCP and related callouts.

ROBERT I. TAGAWA REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAPALAI FRONTAGE ROAD
STA. 0+00 TO STA. 8+00

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE:

SHEET No. OF SHEETS

C.O. 40

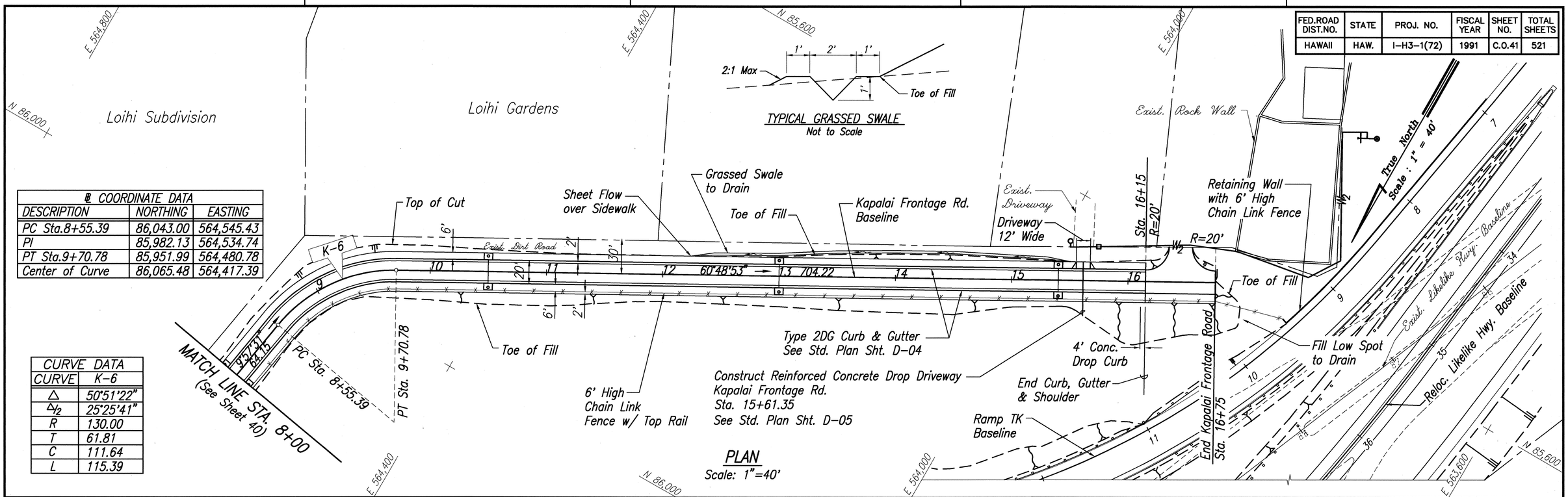
ORIGINAL PLAN | NOTE BOOK No. | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | DATE

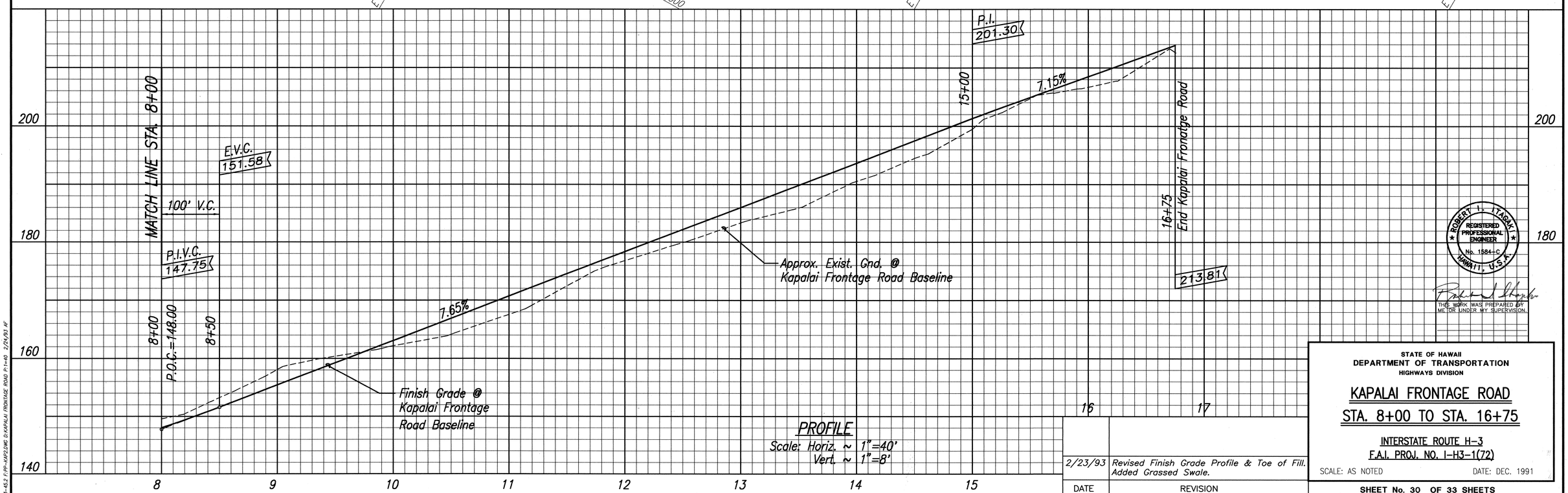
J:83-45.6 F:PP-KAPI.DWG D:KAPALAI FRONTAGE ROAD P:1=40 7/9/98 KAI

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O.41	521

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.8+55.39	86,043.00	564,545.43
PI	85,982.13	564,534.74
PT Sta.9+70.78	85,951.99	564,480.78
Center of Curve	86,065.48	564,417.39

CURVE DATA	
CURVE	K-6
Δ	50°51'22"
Δ/2	25°25'41"
R	130.00
T	61.81
C	111.64
L	115.39





ROBERT I. TAGAK REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

DATE	REVISION
2/23/93	Revised Finish Grade Profile & Toe of Fill. Added Grassed Swale.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAPALAI FRONTAGE ROAD
STA. 8+00 TO STA. 16+75

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

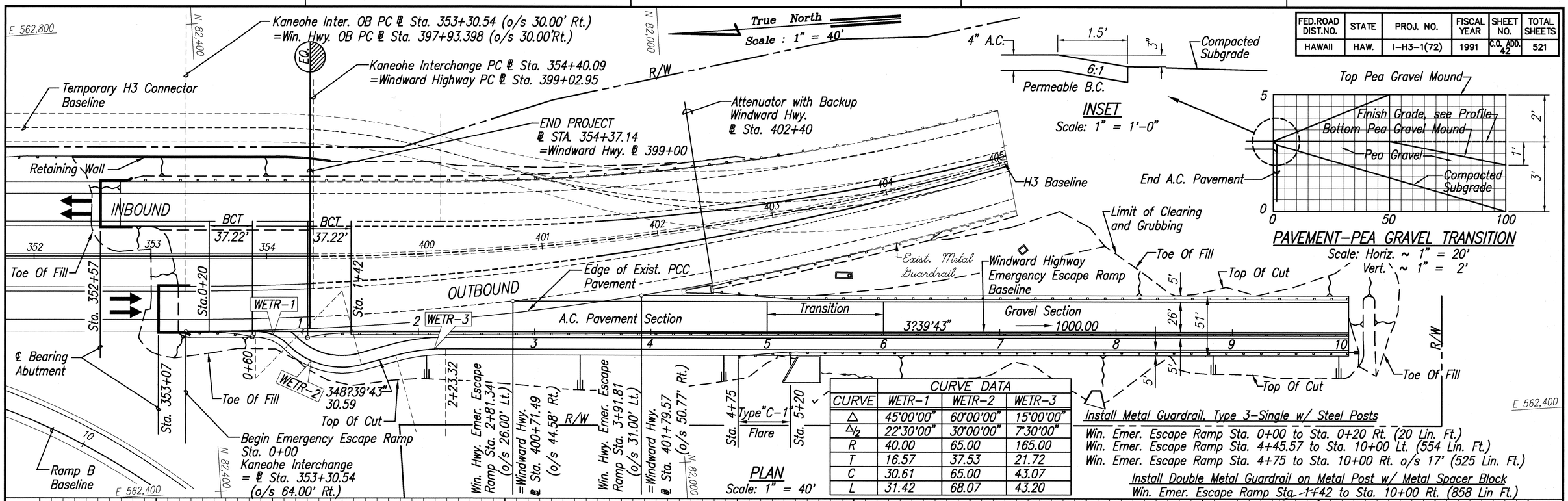
SHEET No. 30 OF 33 SHEETS

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

83-46.2 F:\PW-KAP2.DWG D:\KAPALAI FRONTAGE ROAD P.1=40 2/23/93 AF

C.O. 41

FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 42	521



CURVE DATA			
CURVE	WETR-1	WETR-2	WETR-3
Δ	45°00'00"	60°00'00"	15°00'00"
Δ/2	22°30'00"	30°00'00"	7°30'00"
R	40.00	65.00	165.00
T	16.57	37.53	21.72
C	30.61	65.00	43.07
L	31.42	68.07	43.20

DATE	REVISION
1/27/92	Added existing edge of PCC pavement.

ROBERT I. ITAGAKI REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WINDWARD HIGHWAY EMERGENCY ESCAPE RAMP

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED — DATE: DEC. 1991

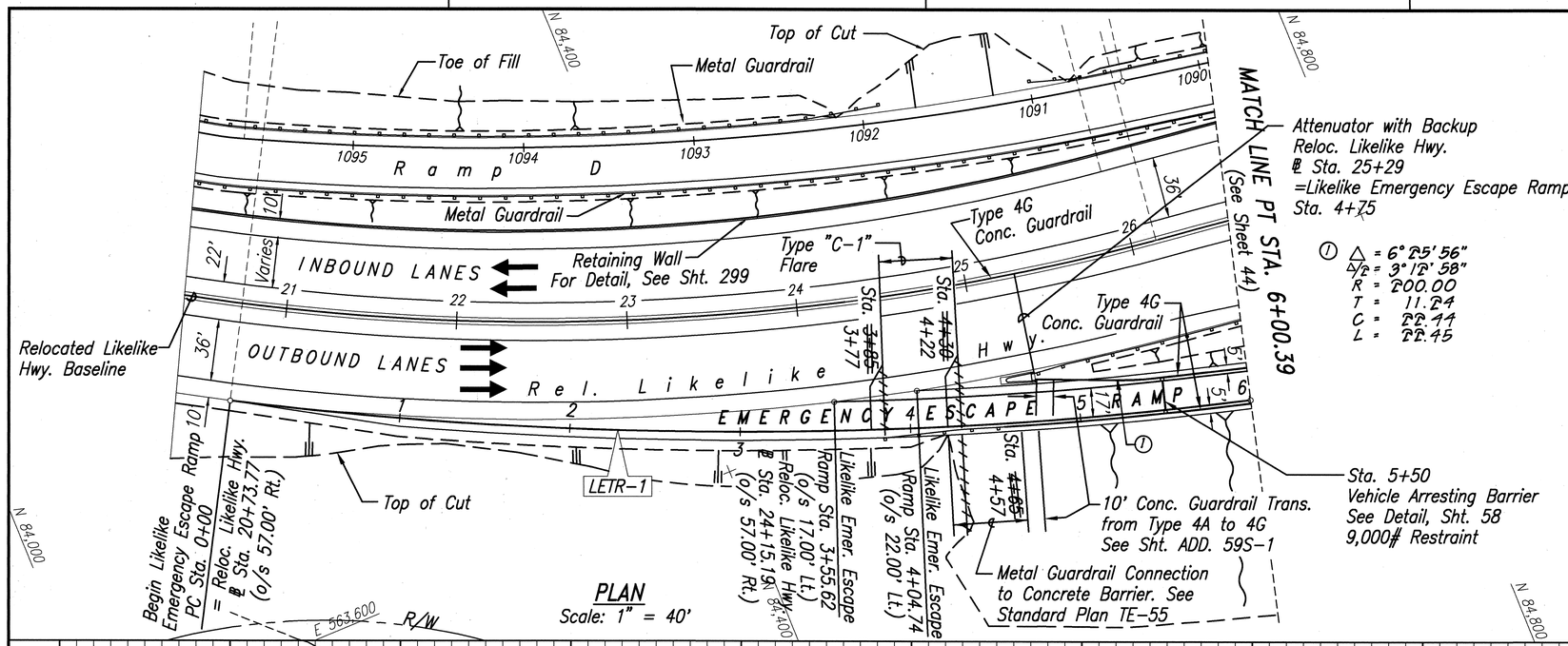
SHEET No. OF SHEETS

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

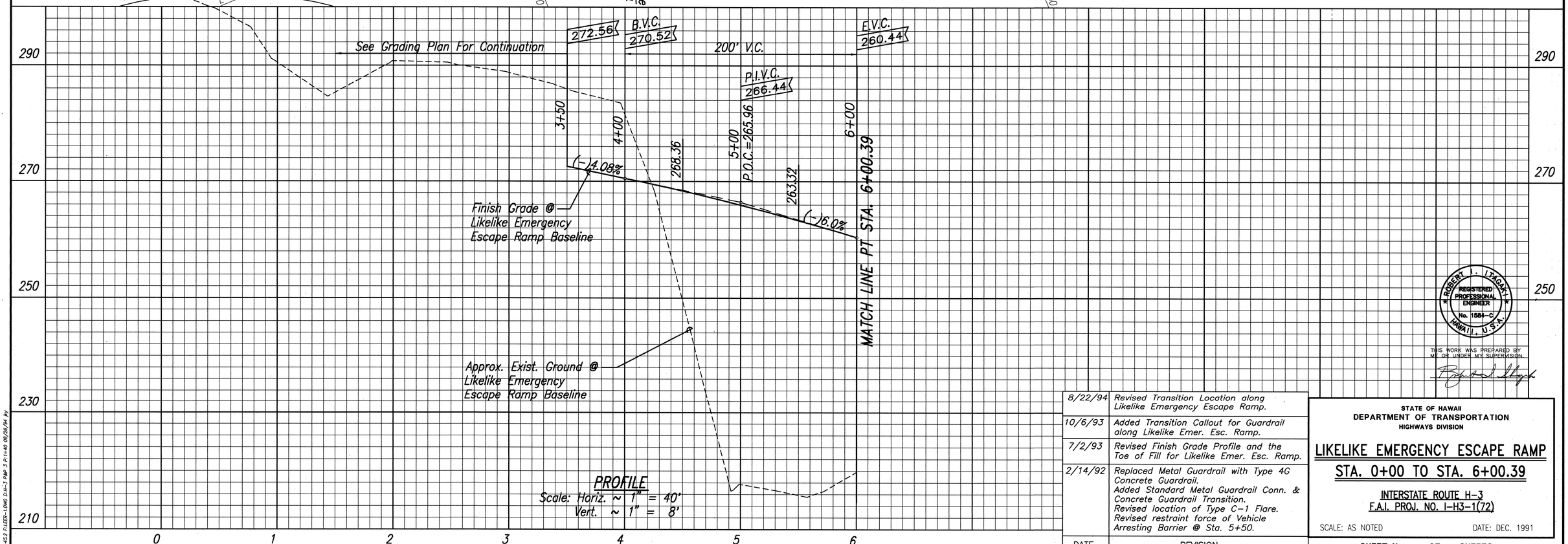
83-456 F:\WEDLDNG D\H3 PAP 3 Plot:1=40 9/1/98 KAA

C.O. ADD. 42

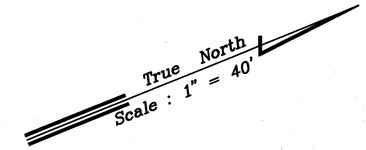
FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O.ADD. 43	521



PLAN
Scale: 1" = 40'



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'



Install Metal Guardrail, Type 3-Single w/ Steel Post
Likelike Emer. Esc. Ramp Sta. ~~3+85~~ 3+77 to Sta. ~~4+55~~ 4+47 Rt. (70 Lin. Ft.)

Install Concrete Guardrail, Type 4G 4+47 583
Likelike Emer. Esc. Ramp Sta. ~~4+55~~ to Sta. 10+30 Rt. (~~575~~ Lin. Ft.)
Likelike Emer. Esc. Ramp Sta. 4+75 to Sta. 10+30 Lt. (555 Lin. Ft.)

① Δ = 6°25'56"
$\Delta/2$ = 3°12'58"
R = 200.00
T = 11.24
C = 22.44
L = 22.45

CURVE DATA	
CURVE	LETR-1
Δ	14°20'00"
$\Delta/2$	7°10'00"
R	2400.00
T	301.77
C	598.83
L	600.39

℄ COORDINATE DATA		
DESCRIPTION	NORTHING	EASTING
PC Sta.0+00	84,144.38	563,450.74
PI	84,407.67	563,598.20
PT Sta.6+00.39	84,699.27	563,675.90
Center of Curve	85,317.15	561,356.80

DATE	REVISION
8/22/94	Revised Transition Location along Likelike Emergency Escape Ramp.
10/6/93	Added Transition Callout for Guardrail along Likelike Emer. Esc. Ramp.
7/2/93	Revised Finish Grade Profile and the Toe of Fill for Likelike Emer. Esc. Ramp.
2/14/92	Replaced Metal Guardrail with Type 4G Concrete Guardrail. Added Standard Metal Guardrail Conn. & Concrete Guardrail Transition. Revised location of Type C-1 Flare. Revised restraint force of Vehicle Arresting Barrier @ Sta. 5+50.

ROBERT I. ITAGAKI
REGISTERED PROFESSIONAL ENGINEER
No. 1584-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIKELIKE EMERGENCY ESCAPE RAMP
STA. 0+00 TO STA. 6+00.39

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

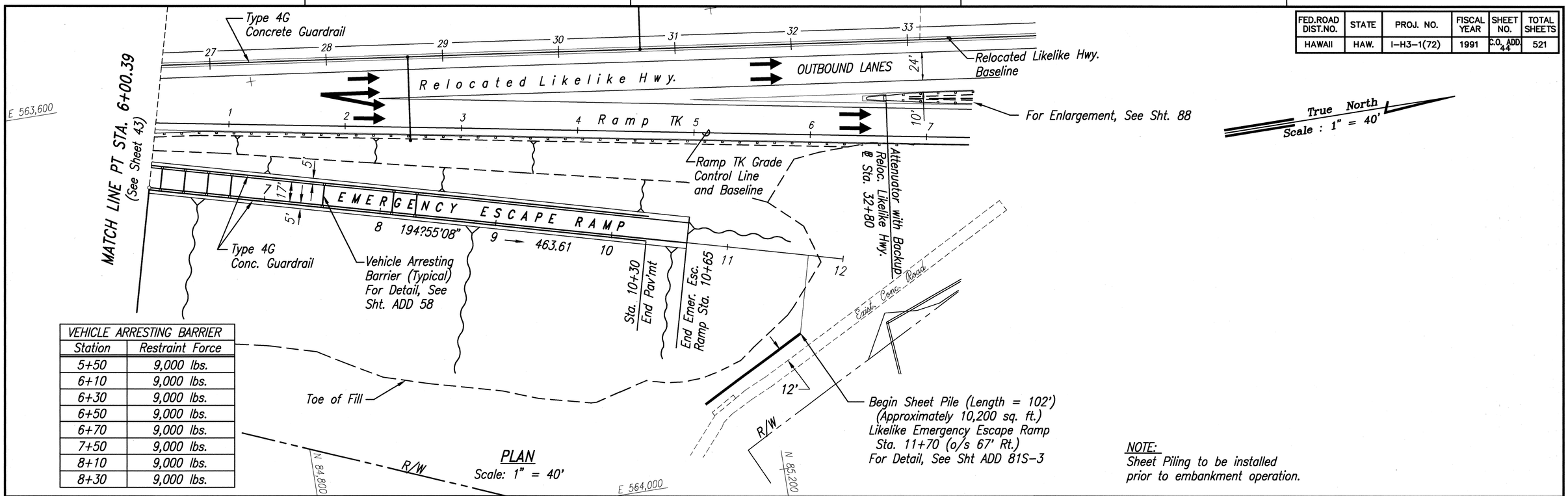
SHEET No. OF SHEETS

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

83-62.2 FILE:H-1.DWG O:H-3 F&P 3 P:1=40 08/26/94 kv

C.O. ADD. 43

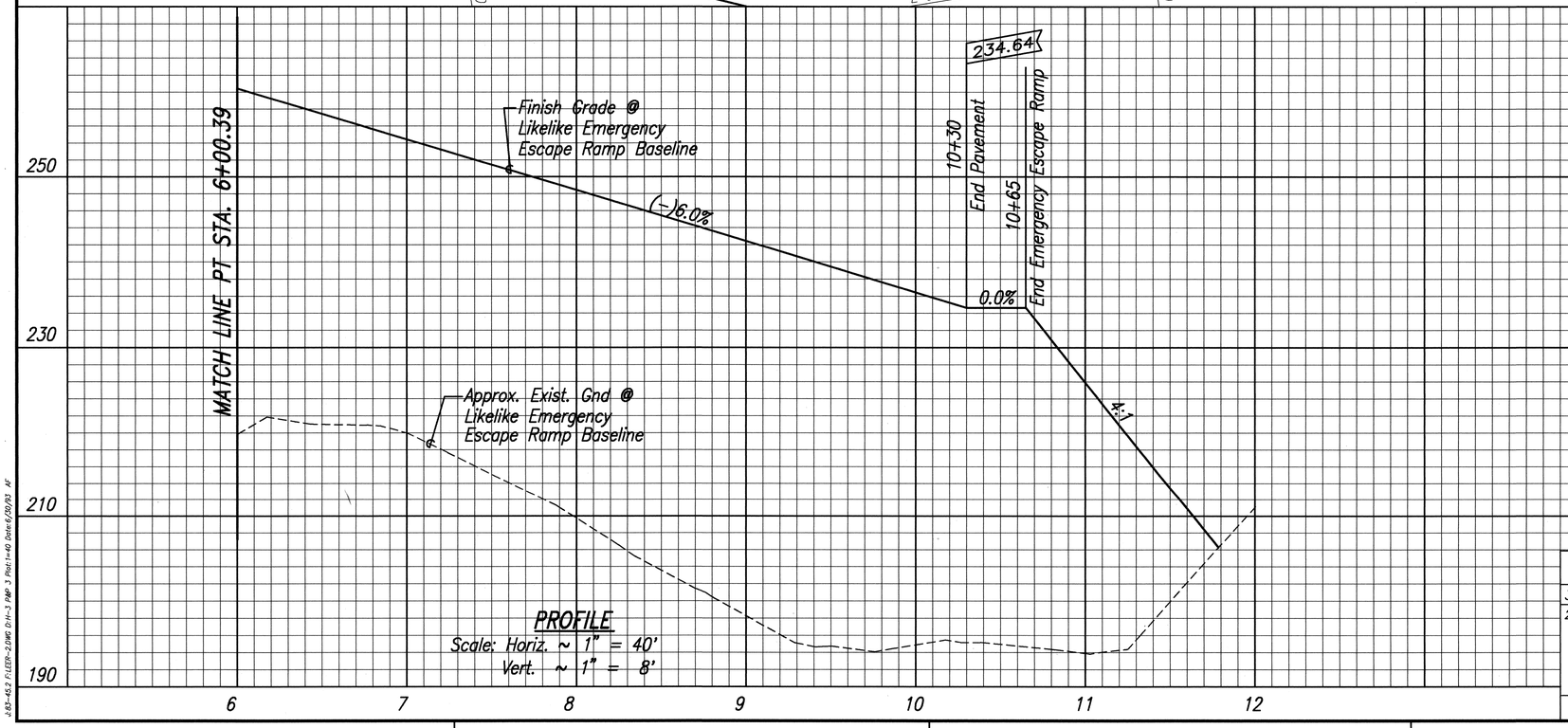
FED.ROAD DIST.NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(72)	1991	C.O. ADD. 44	521



VEHICLE ARRESTING BARRIER	
Station	Restraint Force
5+50	9,000 lbs.
6+10	9,000 lbs.
6+30	9,000 lbs.
6+50	9,000 lbs.
6+70	9,000 lbs.
7+50	9,000 lbs.
8+10	9,000 lbs.
8+30	9,000 lbs.

PLAN
Scale: 1" = 40'

NOTE:
Sheet Piling to be installed prior to embankment operation.



PROFILE
Scale: Horiz. ~ 1" = 40'
Vert. ~ 1" = 8'

DATE	REVISION
7/2/93	Revised Finish Grade Profile & Toe of Fill. Deleted Pea Gravel Mound.
3/29/93	Revised grading @ TK Station 1+90±
2/21/92	Revised location & restraint force of Vehicle Arresting Barriers. Added location of Sheet Piling and related notes. Replaced Metal Guardrail with Type 4G Concrete Guardrail.

ROBERT I. TASAKI REGISTERED PROFESSIONAL ENGINEER No. 1584-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIKELIKE EMERGENCY ESCAPE RAMP

STA. 6+00.39 TO STA. 10+64

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(72)

SCALE: AS NOTED DATE: DEC. 1991

SHEET No. OF SHEETS

C.O. ADD. 44

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

A83-43.2 FILE:R-2.DWG D:H-3 PAP. 3 Plot:1=40 Date:6/30/93 AF