DATE	REVISION
8/10/90	Added Communication and Lighting Conduits, Pullboxes
3/2/89	Revised % Grade for Vertical Curve Added ℄-1 Revised O.B. & I.B. Edge of Pavement & Edge of Shoulder Revised alignment of Temporary Connector
8/28/90	Revised Median Guardrail at ℄ Sta. 399+00 to ℄ Sta. 402+00 Lt & Rt. Added General Note No. 8 Revised beginning of P.C.C. Pav't

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 6	164

PLAN: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO., ALIGNMENT CHECKED, RT. OF WAY CHECKED, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO., B. M.'S NOTED, STRUCTURE NOTATIONS CHKD., BY, DATE

CURVE DATA

	℄-1	I.B.-1	O.B.-1
Δ	25° 42' 37"	25° 42' 37"	25° 42' 37"
R	2200.00	1942.48	2457.52
T	502.06	443.29	560.82
C	978.94	864.35	1093.53
Lc	987.20	871.05	1102.76

LEGEND:

- □ Communication Pullbox
- ○ Lighting Pullbox
- ○ Emergency Telephone Footing (N.I.C.)
- Vehicle Detector (N.I.C.)

GENERAL NOTES:

1. Azimuth and Coordinates are based on Hawaiian Plane Coordinates Grid System Zone 3 "Kailua" Δ, 80,135.23 N 575,640.57 E.
2. Bench Marks are referred to mean sea level datum.
3. "◎" denotes installation of reference survey monuments. Locations are shown on the plans. For details, see Standard Plan No. D-06
4. For Type "C" and "F" Metal Guard Rail Flare details, See Standard Plan Nos. TE-58 and TE-59
5. Utility relocations (HECO) to be done by others.
6. Temporary erosion and siltation control measures shall be done in accordance with Section 639 - Temporary Project Water Pollution Control (Soil Erosion) of the Standard Specifications for Road and Bridge Construction, 1985. Payment will be under Item No. 639.0100.
7. The Project consist of Grading, Drainage facilities, Bridge constructions, Asphalt Concrete Pavement, Utility relocations by others, Signing, Pavement markings, Guard Rails, Fences, Landscaping and Noise Barrier.
8. For Details of Emergency Telephone Footing, Communication and Lighting Pullboxes and Vehicle Detector, See Sheet Nos. C0149-2 and C0149-3.

83,000 N
R/W Line
3°39'43"
INBOUND LANES
395
New Baseline
OUTBOUND LANES
562,500 E
82,500 N
New ℄ P.C. Sta. 399+02.95
82307.97 N
562595.80 E
O.B. P.C. ℄ Sta. 397+93.98 O/S 30' Rt.
BEGIN PROJECT F.A.I.P. NO. I-H3-1(50)
℄ STA. 399+00 Begin P.C.C. Pavement
I.B. P.C. Sta. 400+12.54 O/S 27.27 Lt.
TRUE NORTH
SCALE: 1" = 40'
A ℄ Sta. 400+00 Modified Guard Rail, Type A For Details, See Plan Sheet No. C0.27
6-Ft. High Chain Link Fence w/Top Rail @ R/W and A.C. Line
3" Communication Duct
Top of Cut
3" Hwy. Lighting Duct
I.B.-1
Concrete Guard Rail
℄-1
400
I.B. Grade Control (1' Lt of ℄)
Baseline
O.B. Grade Control (1' Rt of ℄)
A
O.B.-1
3" Hwy. Lighting Duct
MATCH LINE ℄ STA. 402+00
82,000 N
6-Ft. High Chain Link Fence w/Top Rail (R/W to R/W)
Top of Cut
WH-24
3" Communication Duct
401+50
562,500 E
℄ Sta. 399+00 to ℄ Sta. 402+00 Lt & Rt.
Construct Guard Rail, Type A (300 Lin. Ft.)
250
℄ 6-Ft. High Chain Link Fence w/Top Rail @ R/W and A.C. Line
82,000 N

1000' V.C. Outbound
1,000' V.C. Inbound
333+67 I.B.
B.V.C. 393+00
O.B. 337.76
B.V.C. 394+35.19
-4.00 %
-4.00 %
Finished Grade at O.B. Grade Control (1' Rt. of ℄)
Existing Ground at ℄
+3.0274
Finished Grade at I.B. Grade Control (1' Lt. of ℄)
C.G. 398+00 322.46
I.B. 313.67
C.G. 399+35.19 326.25
O.B. 317.76

340 320 300 280

390 391 3 4 395 6 7 8 9 400 1 2

PLATE 1—PLAN PROFILE B. P. R. STANDARD THE FREDERICK POST CO., CHICAGO

C.O.ADD.6

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 7	164

Ⓑ Modified Guard Rail, Type A
(For Details, See Plan Sht No. C027)
℄ Sta. 407+32
(To Be Done By Others)

℄ Sta. 402+60

Type "F" Flare

℄ Sta. 403+30

I.B.(T.C.) ℄

6' High Chain Link Fence w/ Top Rail

N.I.C.

O.B.(T.C.) ℄

3" Highway Lighting Duct

3" Communication Duct

Metal Guard Rail

Toe of Fill

Type "C" Flare

Revised Approach End Flare. Install 75 L.F. Rubrail to the 100 FT. Flare where it crosses over the Type II (GIEW) Gutter.

℄ Sta. 402+10

℄ Sta. 403+75

R/W Line

6-Ft. High Chain Link Fence w/ Top Rail

℄ Sta. 404+00 Lt. & Rt.
Stub Out and Cap 3" Lighting & Communications Conduits beyond Lighting & Communications Pullboxes

MATCH LINE

562,500E

℄ STA. 402+00

82,000N

Install Metal Guard Rail, Type 3-Single W/ Steel Posts
℄ Sta. 402+70 to ℄ Sta. 405+00 Rt. (320 Lin. Ft.)
℄ Sta. 402+60 to ℄ Sta. 412+77.64 Lt. (1018 Lin. Ft.)
℄ Sta. 411+55 to ℄ Sta. 413+14.87 Rt. (160 Lin. Ft.)

Ⓒ Modified Guard Rail, Type 9A
(For Details, See Plan Sht. No. 24)
℄ Sta. 410+00

℄ Sta. 404+26
See Plan Sht. No. ADD. 1045-4
For continuation of Metal Guard Rail

End I.B. (T.C.) ℄ Sta. 404+26.03, 9.81' Lt.
EQ I.B. Sta. 2.0 + 90.28

End O.B. (T.C.) ℄ Sta. 404+73.66, 36.05' Rt.
EQ O.B. Sta. 2.1 + 44.86

℄ Sta. 404+74
See Plan Sht. No. ADD. 1045-4
For continuation of Metal Guard Rail

℄ Sta. 405+20

Min. 36"r bend for 3" comm. conduit, Typical

℄ Sta. 405+00

Type "F" Flare

℄ Sta. 406+00 to ℄ Sta. 408+90.15± Lt. & Rt.
Construct Guard Rail, Type A (290 Lin. Ft.)
100

407+00±

81,500N

℄ Sta. 408+90.15 ℄ 3' Lt.
Install Reference Survey Monument

℄ STA. 408+90.15

P.C.C. ℄ Sta. 408+90.15

24'-10"

24'

TRUE NORTH
SCALE 1"=90'

R/W Line

Note:
For Guard Rail Connection to Bridge Rail Details, See Plan Sht. No. 108

Toe of Fill

6-Ft. High Chain Link Fence w/ Top Rail @ R/W and A/C Line

81,000N

℄ Sta. 412+77.64

6-Ft. High Chain Link Fence W/ Top Rail

M.L.

563,000E

WH-27

Grade Control (1' Rt. & Lt. of ℄)

INBOUND LANES
410

OUTBOUND LANES

Concrete Guard Rail

I.B.-2

O.B.-2

℄-2

HW-1-65

3" Highway Lighting Duct

6-Ft. High Chain Link Fence w/ Top Rail

R/W Line

℄ STA. 414+00

℄ Sta. 413+14.87

99°-53'

80.00

3" Communication Duct

Type "C" Flare

℄ Sta. 412+60

℄ Sta. 411+55

WH-25

WH-26

B-9

I.B.-1

O.B.-1

℄-1

Top of Cut

Top of Cut

Ⓒ

Ⓑ

CURVE DATA

	℄-1	I.B.-1	I.B.-2	O.B.-1	O.B.-2	℄-2
Δ	25° 42' 37"	25° 42' 37"	21° 39' 58"	25° 42' 37"	21° 39' 58"	21° 39' 58"
R	2 200.00	1942.48	3295.00	2457.52	3305.00	3300.00
T	502.06	443.29	630.53	560.82	632.44	631.48
C	978.94	864.35	1238.58	1093.53	1242.34	1240.46
Lc	987.20	871.65	1245.99	1102.76	1249.77	1247.88

℄ Sta. 408+90.15± to ℄ Sta. 412+80.42
Construct Guard Rail, Type 4A (390 Lin. Ft.)

℄ Sta. 412+80.42 to ℄ Sta. 413+10.42
Construct Guard Rail, Type 4E (30 Lin. Ft.). For Details, See Plan Sht. No. 109

B-10

B-11

I.B. & O.B. 350.00

C.G. 410+00 344.83

6-Ft. High Chain Link Fence W/ Top Rail

-1.1111 %

+3.0274 %

Finished Grade at Grade Control

Existing Ground at ℄

1,000' V.C. Outbound

1,000' V.C. Inbound

O.B. 332.90

I.B. 328.81

E.V.C. 403+00

E.V.C. 404+35.10

B.V.C. 405+00

I.B. & O.B. 334.86

1,000' V.C. Inbound & Outbound

360
340
320
300

402 3 4 405 6 7 8 9 410 11 12 13 414

DATE	REVISION	DATE	REVISION
8/10/90	Added Communication and Lighting Conduits, Pullboxes, Emergency Telephone Ftg. and Vehicle Detector.	3/2/89	Deleted curved bridge railings at ℄ Sta. 412+77.64 Lt. & at ℄ Sta. 413+14.87 Rt. Revised O.B. & I.B. Edge of Pavement & Edge of Shoulder. Added O.B. (T.C.) ℄ & I.B. (T.C.) ℄ Added EQ. Sta. at O.B. ℄ Sta. 404+73.66 Rt. & at I.B. ℄ Sta. 404+26.03 Lt. Added Guard Rail notations at ℄ Sta. 404+74 Rt. & ℄ Sta. 404+26 Lt.
8/20/90	Revised Median Guard Rail at ℄ Sta. 406+00 to ℄ Sta. 408+90.15± Lt. & Rt.		

PLAN — SURVEYED / PLOTTED / NOTE BOOK / NO. / ALIGNMENT CHECKED / RT. OF WAY CHECKED / BY / DATE

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / NO. / GRADES CHECKED / R. W & H NOTES / STRUCTURE NOTATIONS CHKD. / BY / DATE

PLATE I—PLAN PROFILE S. P. R. STANDARD
THE FREDERICK POST CO., CHICAGO

C.O.ADD.7

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD.8	164

CURVE DATA

	℄-2	I.B.-2	O.B.-2
Δ	21° 39' 58"	21° 39' 58"	21° 39' 58"
R	3300.00	3295.00	3305.00
T	631.48	638.53	632.44
C	1240.46	1238.58	1242.34
Lc	1247.88	1245.92	1249.77

Install Metal Guard Rail, Type 3-Single W/Steel Posts
℄ Sta. 416+51.08 to ℄ Sta. 418+30 Lt. (179 L.F.)
℄ Sta. 416+71.63 to ℄ Sta. 417+65 Rt. (94 L.F.)
℄ Sta. 420+10± to ℄ Sta. 421+85 Rt. (175 L.F.)

℄ Sta. 416+95.50 to ℄ Sta. 416+75.50
Construct Guard Rail, Type 4E (30 L.F.)
For Details, See Plan Sht. No. 102

℄ Sta. 421+38.03 9'S 3' Lt.
Install Reference Survey Monument

℄ Sta. 416+75.50 to ℄ Sta. 464+50±
Construct Guard Rail, Type 4A (4,775 Lin. Ft.)

TRUE NORTH
SCALE: 1"=40'

80,000N
80,500N
563,500E
563,000E
℄ STA. 414+00
℄ STA. 426+00
MATCH LINE
R/W Line
℄ P.T. STA. 421+12
38.03
6' High Chain Link Fence w/ Top Rail
6-Ft. High Chain Link Fence w/ Top Rail @ R/W and A/C Line
D Modified Guard Rail, Type 4A (For Details, See Plan Sht. No. 24) ℄ Sta. 418+50, ℄ Sta. 421+20 & ℄ Sta. 422+60
2-Chain Link Gate 6 Ft. High x 8 Ft. Wide
6-Ft. High Chain Link Fence w/ Top Rail
℄ Sta. 416+51.08
℄ Sta. 417+25
Type "C" Flare
℄ Sta. 418+30
WH-28
Earth Berm Noise Barrier
3" Communication Duct
Top of Cut
HW-2-65
SB-17
HW-3-65
3" Highway Lighting Duct
Concrete Guard Rail
415
Baseline
I.B.-2
INBOUND LANES
420
316° 17' 08" — 1,828.12' (P.T. TO P.C.)
Grade Control (1 Ft. Rt. & Lt. of ℄)
Concrete Guard Rail
425
SB-19
416+45
O.B.-2
℄-2
D
OUTBOUND LANES
24'
10'
5'
Metal Guard Rail
3" Highway Lighting Duct
3" Communication Duct
2-Chain Link Gate 6 Ft. High x 8 Ft. Wide
HW-4-65
R/W Line
Archaeological Site
SB-20
SB-18
Temporary Fence For Details See Plan Sht. No. 23
M.L.
℄ Sta. 416+71.63
℄ Sta. 417+65
Type "F" Flare
6-Ft. High Chain Link Fence w/ Top Rail
80,500N
NOTE:
For Guard Rail Connection to Bridge Rail Details, See Plan Sht. No. 108
℄ Sta. 420+10±
Type "C" Flare
(Revised Approach End Flare. Install 50 L.F. Rubrail to the 100' Flare where it crosses over the Type 2 Gutter.)
Type "F" Flare
℄ Sta. 421+85
6-Ft. High Chain Link Fence w/ Top Rail
80,000N
563,500E

I.B. & O.B.
335.56
B.V.C. 423+00
1,000' V.C. Inbound & Outbound

360
340
320
300
-1.1111 %
Existing Ground at ℄
Finished Grade at Grade Control
E.V.C. 415+00
1,000' V.C. Inbound & Outbound
I.B. & O.B.
344.44

14 415 16 17 18 19 420 21 22 23 24 425 26

DATE	REVISION
8/10/90	Add Communication and Lighting Conduits, Pullboxes, Emergency Telephone Ftg. and Vehicle Detector
3/2/89	Deleted curved bridge railings
	Re-numbered Curve Data

PLATE I—PLAN PROFILE B. P. R. STANDARD
THE FREDERICK POST CO., CHICAGO

C.O. ADD.8

DATE	REVISION
8/10/90	Added Communication and Lighting Conduits, Pullboxes, Emergency Tele. Ftg. and Vehicle Detector

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	9	164

PLAN — SURVEYED / PLOTTED / NOTE BOOK / NO. / ALIGNMENT CHECKED / RT. OF WAY CHECKED / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / R.W.S. NOTED / STRUCTURE OUTLINES CHKD. / NOTE BOOK / NO. / BY / DATE

Install Metal Guard Rail, Type 3-Single W/ Steel Posts

℄ Sta. 426+60 to ℄ Sta. 430+35 Rt. (375 Lin. Ft.)
℄ Sta. 433+20 to ℄ Sta. 440+20 Rt. (700 Lin. Ft.)

564,000E — 79,500N — 564,500E — TRUE NORTH SCALE 1"=40'

R/W Line — 6'-Ft. High Chain Link Fence w/ Top Rail @ R/W and A/C Line — 6' High Chain Link Fence w/ Top Rail — Earth Berm Noise Barrier — Earth Berm Noise Barrier

℄ STA. 426+00 — ℄ STA. 438+00

WH-29 — B-13 — B-12

3" Communication Duct — Top of Cut — 3" Highway Lighting Duct — 3" Communication Duct

Concrete Guard Rail — 430 — Baseline — N.I.C. — 316° 17' 08" — 1,828.12' (R.T. TO P.C.) — 435 — INBOUND LANES

80,000N — Grade Control (1' Rt. & Lt. of ℄) — N.I.C. — OUTBOUND LANES

M.L. — Toe of Fill — Metal Guard Rail — Toe of Fill — Metal Guard Rail — R/W Line — M.L.

Top of Cut — ℄ Sta. 426+60 — Type "C" Flare — ℄ Sta. 427+65 — ℄ Sta. 429+65 — Type "F" Flare — ℄ Sta. 430+35 — Top of Cut — ℄ Sta. 433+20 — Type "C" Flare — ℄ Sta. 434+25 — 6'-Ft. High Chain Link Fence w/ Top Rail

6' High Chain Link Fence w/ Top Rail — 79,500N — 564,000E

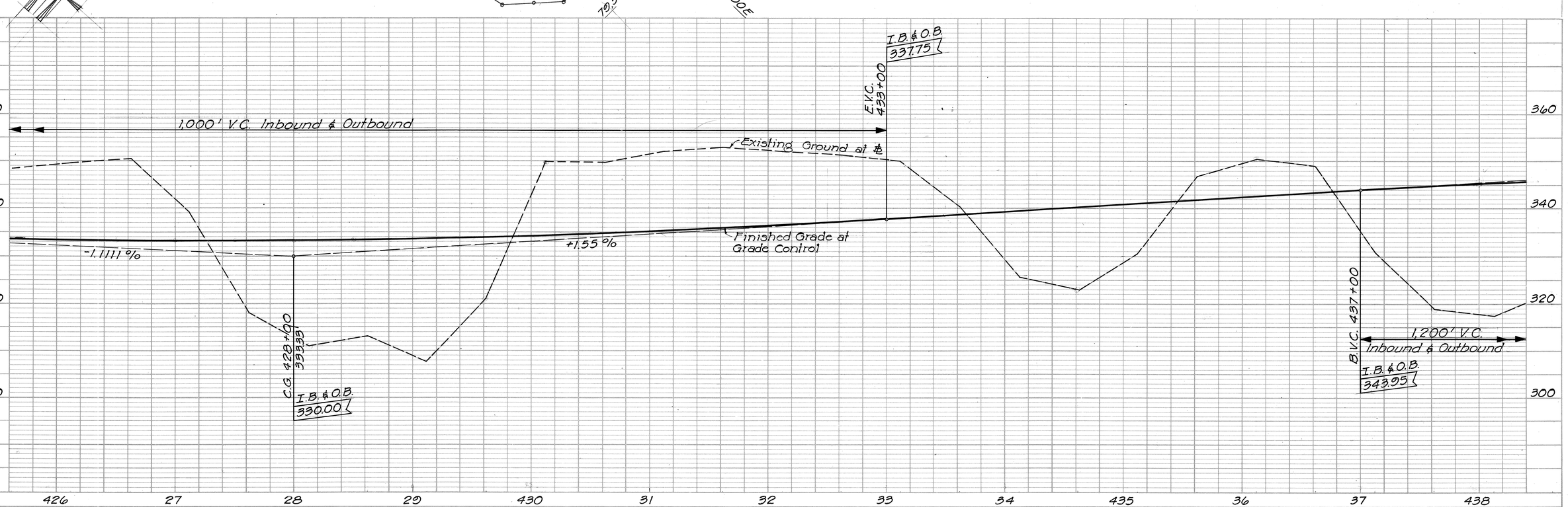


PLATE 1—PLAN PROFILE B. P. R. STANDARD
THE FREDERICK POST CO., CHICAGO

C.O. 9

9

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD.10	164

℄ Sta. 439+66.14 9/s 3'Lt.
Install Reference Survey Monument

565,500E 79,000N

(E) Modified Guard Rail, Type 4A
(For Details, See Plan Sht. No. 24)
℄ Sta. 438+50, ℄ Sta. 443+50,
℄ Sta. 445+62, ℄ Sta. 447+50
& ℄ Sta. 449+60

CURVE DATA

	℄-3	1.B.-3	O.B.-3
Δ	85°45'00"	57°54'16"	50°56'25"
R	2600.00	2595.00	2605.00
T	2413.95	1435.60	1240.85
C	3538.08	2512.37	2240.51
Lc	3891.21	2622.57	2316.04

565,500E

TRUE NORTH
SCALE 1"=40'

78,500N

R/W Line

M.L.

6' High Chain Link Fence w/ Top Rail

Earth Berm Noise Barrier

6-Ft. High Chain Link Fence w/ Top Rail @ R/W and A/C Line

℄ STA. 438+00

℄ P.C. STA. 439+66.14

WH-30
316° 17' 08"

Top of Cut

3" Communication Duct

3" Highway Lighting Duct

5' 24' 10'

440 Concrete Guard Rail

INBOUND LANES

OUTBOUND LANES

(E)

1.B.-3

O.B.-3

℄-3

445

Baseline

Grade Control (1' Rt. & Lt. of ℄)

3" Communication and Highway Lighting Ducts

Metal Guard Rail

B-14

℄ Sta. 439+50

Type "F" Flare

℄ Sta. 440+20

Top of Cut

R/W Line

WH-31

(Revised Approach End Flare. Install 50 L.F. Rubrail to the 100' Flare where it crosses over the Type 2 gutter.)

℄ Sta. 443+60

Type "C" Flare

℄ Sta. 444+65

Toe of Fill

Top of Cut

℄ Sta. 443+60 to ℄ Sta. 457 + 20 ± Rt.
Install Metal Guard Rail,
Type 3-Single W/ Steel Post (1,360 Lin. Ft.)

79,000N

M.L.

564,500E

6-Ft. High Chain Link Fence w/ Top Rail

B-15

B-16

78,500N

℄ STA. 450 + 00

450

DATE	REVISION
3/2/89	Re-numbered Curve Data
8/10/90	Added Communication and Lighting Conduits, Pullboxes and Emergency Telephone Footing

I.B. & O.B.
353.25

C.G. 443+00
-345.00

+1.55%

-3.35%

Finished Grade at Grade Control

Existing Ground at ℄

I.B. & O.B.
333.15

1,200' V.C.
Inbound & Outbound

P.I.V.C. 449+00

I.B. & O.B.
333.15

1,200' V.C. Inbound & Outbound

380
360
340
320

38 39 440 41 42 43 44 445 46 47 48 49 450

PLATE I—PLAN PROFILE B. P. R. STANDARD
THE FREDERICK POST CO., CHICAGO

C.O. ADD.10
10

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD. 11	164

CURVE DATA

	℄ 3	I.B. 3	O.B. 3
Δ	85°45'00"	57°54'16"	50°56'25"
R	2600.00	2595.00	2605.00
T	2413.95	1435.60	1240.85
C	3538.08	2512.37	2240.51
Lc	3891.21	2622.57	2316.04

565500E 566000E 566500E 78,500N 78,000N

℄ STA. 450+00

TRUE NORTH SCALE: 1"=40'

6-Ft. High Chain Link Fence w/ Top Rail @ R/W and A/C Line

R/W Line

Top of Cut

3" Communication Duct

3" Highway Lighting Duct

SB-21

450

Grade Control (1 Ft. Rt. & Lt. of ℄)

Metal Guard Rail

3" Communication and Highway Lighting Ducts

B-17

455

I.B. 3

O.B. 3

℄ 3

N.I.C. Baseline

INBOUND LANES

OUTBOUND LANES

Concrete Guard Rail

460

Earth Berm Noise Barrier

℄ Sta. 461+50

M.L.

I.B. Grade Control

O.B. Grade Control

Metal Guard Rail

℄ STA. 462+00

SB-23

SB-22

WH-33

WH-34

℄ Sta. 456+50

℄ Sta. 457+20

℄ Sta. 459+80

℄ Sta. 460+65

Type "F" Flare

Type "C" Flare (Revised Approach End Flare. Install 50 L.F. Rubrail at the 100' Flare where it crosses over the Type 2 Gutter.)

F Modified Guard Rail, Type 4A (For Details, See Plan Sht. No. 24) ℄ Sta 452+85, ℄ Sta. 455+50, ℄ Sta. 458+00, ℄ Sta. 459+50 & ℄ Sta. 462+00

6' High Chain Link Fence w/ Top Rail

Top of Fill

6-Ft. High Chain Link Fence w/ Top Rail

Top of Cut

1,200' V.C. Inbound & Outbound

Finished Grade at Grade Control

-3.35%

+1.0592%

Existing Ground at ℄

C.G. 455+00 312.66

I.B. & O.B. 313.05

E.V.C. 461+00

I.B. & O.B. 312.41

G.C. 461+50 Inside E.P.

O.B. 320.10

I.B. 319.68

G.C. 461+50 11'2" Rt. of ℄

319.93 I.B. & O.B.

B.V.C. 462+00

B.V.C. 462+08.32

O.B. 320.72

I.B. 320.30

360 340 320 300 280

450 51 52 53 54 455 56 57 58 59 460 61 62

DATE	REVISION
8/10/90	Added Communication and Lighting Conduits, Pullboxes, Emergency Tele. Ftg. and Vehicle Detector
3/2/89	Re-numbered Curve Data

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R/T. OF WAY CHECKED, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, ST. & UTIL. SHEET NO., STRUCTURE NO., BY, DATE, QUANTITIES CHKD.

PLATE 1—PLAN PROFILE B. P. R. STANDARD
THE FREDERICK POST CO., CHICAGO

C.O. ADD. 11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD.12	164

CURVE DATA

	℄-3	I.B.-3	I.B.-4	O.B.-3	O.B.-4
Δ	85°45'00"	57°54'16"	27°50'44"	50°56'25"	34°48'35"
R	2600.00	2555.00	2500.00	2605.00	2700.00
T	2413.95	1435.60	619.74	1240.85	846.38
C	3538.08	2512.37	1203.07	2240.51	1615.26
Lc	3891.21	2628.27	1214.99	2316.04	1640.37

℄ Sta. 464+50± to ℄ Sta. 473+00±
Construct Guard Rail, Type 4B (850 Lin. Ft.)

6-Ft. High Chain Link Fence W/ Top Rail @ R/W and A/C Line

O.B. P.C.C. ℄ STA. 462+77.74

I.B. P.C.C. ℄ STA. 465+93.76

Earth Berm Noise Barrier

B-18

WH-35

WH-36

M.L.

Install Metal Guard Rail, Type 3-Single W/ Steel Posts
℄ Sta. 459+80 to ℄ Sta. 464+90 Rt. (515 Lin. Ft.)
℄ Sta. 470+70 to ℄ Sta. 473+00 Rt. (235 Lin. Ft.)

Top of Cut

3" Communication Duct

3" Hwy. Lighting Duct

I.B.-3

O.B.-3

5'

24'

10'

Concrete Guard Rail

465

INBOUND LANES

OUTBOUND LANES

Baseline

470

I.B.-4

O.B.-4

℄-3

I.B. Grade Control

O.B. Grade Control

3" Communication and Highway Lighting Ducts

Metal Guard Rail

78,500 N.

℄ STA. 474+00

℄ STA. 462+00

Toe of Fill

Metal Guard Rail

℄ Sta. 464+20

Type "F" Flare

℄ Sta. 464+90

B-19

3" Communication Duct

3" Hwy. Lighting Duct

℄ Sta. 469+70

℄ Sta. 471+35

℄ Sta. 472+30

℄ Sta. 473+00

Type "C" Flare

Type "F" Flare

R/W Line

78,000 N.

Top of Cut

(F) ℄ Sta. 462+00
Modified Guard Rail, Type 4A
For Details, See Plan Sht. No. 24

(G) Modified Guard Rail, Type 4B.
(For Details, See Plan Sht. No. 25)
℄ Sta. 467+50, ℄ Sta. 469+50
& ℄ Sta. 472+50

6-Ft. High Chain Link Fence W/ Top Rail

(Revised Approach End Flare. Install 50 L.F. Rubrail to the 100 Flare where it crosses over the Type 2 Gutter.)

5617000E

5617500E

TRUE NORTH
SCALE: 1"=400'

DATE	REVISION
3/2/89	Re-numbered Curve Data
8/10/90	Added Communication and Lighting Conduits, Pullboxes and Emergency Telephone Footing

PLAN — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, R.L.'S INDEPENDENTLY CHKD., STRUCTURE NOTATIONS CHKD., NOTE BOOK, NO., BY, DATE

O.B. 330.25
I.B. 329.83
C.G. 471+00 316.02
C.G. 471+08.32 316.20

Existing Ground at ℄

+1.0592 %

-5.00 %

Finished Grade at O.B. Grade Control

Finished Grade at I.B. Grade Control

B.V.C. 462+00

B.V.C. 462+08.32

O.B. 320.72

I.B. 320.30

1,800' V.C. Outbound

1,800' V.C. Inbound

360 340 320 300 280

462 63 64 465 66 67 68 69 470 71 72 73 474

PLATE 1—PLAN PROFILE B. P. R. STANDARD
THE FREDERICK POST CO., CHICAGO

CO.ADD.12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	ADD.13	164

CURVE DATA

	℄ - 3	I.B.-4	O.B.-4
Δ	85°45'00"	27°50'44"	34°48'35"
R	2600.00	2500.00	2700.00
T	2413.95	619.74	846.38
C	3538.08	1203.07	1615.26
Lc	3891.21	1214.99	1640.37

BORING WH-38
Offset 243' Lt. from Baseline Sta. 482+36

℄ Sta. 478+57.35 °/s 3' Lt.
Install Reference Survey Monument

568,000E
79,000N
568,500E
79,500N

℄ STA. 474+00
I.B. P.T. ℄ STA. 478+12.71 °/s 15.62' Lt.
℄ P.T. STA. 478+57.35
78768.042N
568820.900E
O.B. ℄ P.T. STA. 479+11.58
℄ STA. 484+20 BEGIN TAPER
℄ STA. 485+70
M.L.

TRUE NORTH
SCALE: 1"=40'

6-Ft. High Chain Link Fence W/ Top Rail @ R/W and M.L. Line
R/W Line
Earth Berm Noise Barrier

(H) Modified Guard Rail, Type 4C
(For Details, See Plan Sht. No. 26)
℄ Sta. 475+50, ℄ Sta. 478+00 & ℄ Sta. 479+00

WH-37
Top of Cut
3" Communication Duct
3" Highway Lighting Duct
Concrete Guard Rail
I.B.-4
℄-3
O.B.-4
3" Communication and Highway Lighting Ducts
475
480
485
Baseline
B-20B
Edge of Shoulder
Remove Conc. Pad
4'
75'
WH-39
1,162.65' (P.T. to End of Prof.)
230° 32' 08"
Grade Control
N.I.C.
INBOUND LANES
OUTBOUND LANES
Grade Control
3" Highway Lighting Duct
3" Communication Duct
101.24'
16'
22'
24'
10'
℄ Sta. 479+35
℄ Sta. 479+78.4
℄ Sta. 480+50
℄ Sta. 481+20
℄ Sta. 436+15
℄ Sta. 436+20
Type "C" Flare
Type "F" Flare
Top of Cut
6' High Chain Link Fence W/ Top Rail
100' of Fill
℄ STA. 486+00

(I) ℄ Sta. 480+00
Modified Guard Rail, Type 4B
For Details, See Plan Sht. No. 25

(Revised Approach End Flare. Install 50 L.F. Rubrail to the 100' Flare where it crosses over the Type 2 Gutter.)

Construct Concrete Guard Rail
Type 4C, ℄ Sta. 473+00± to ℄ Sta. 479+06.67 (607 Lin. Ft.)
Type 4B, ℄ Sta. 479+06.67 to ℄ Sta. 480+50± (144 Lin. Ft.)
Type 4A, ℄ Sta. 480+50± to ℄ Sta. 482+00 (150 Lin. Ft.)

℄ Sta. 482+00 to ℄ Sta. 482+35
Construct Type 4A Transition (10 L.F.) & Install Metal Guard Rail Transition (25 L.F.) See Typical Detail Plan Sht. No. C.O. 145-2

℄ Sta. 478+30 to ℄ Sta. 481+20
Install Metal Guard Rail, Type 3 Single ℄ Steel Posts (295 Lin. Ft.)

℄ Sta. 482+35 to ℄ Sta. 483+10
Install Metal Guard Rail, Type 3 W/ Rubrail. Transition post from center of gutter to outside.

I.B. & O.B. 270.25
℄ V.C. 483+00
1,000' V.C. Inbound & Outbound

Existing Ground at ℄
-5.00 %
Finished Grade at Grade Control
-3.00 %
1,800' V.C. Outbound
1,800' V.C. Inbound
E.V.C. 480+00
E.V.C. 480+108.32
O.B. 285.25
I.B. 284.83

320 300 280 260 240 220
74 475 76 77 78 79 480 81 82 83 84 485 86

DATE	REVISION
8/10/91	Remove Conc. Pad, Construct Type 4A Transition & Install Metal Guard Rail in Median.
8/10/90	Added Communication and Lighting Conduits, Pullboxes, Emergency Tele. Ftg. and Vehicle Detector
3/2/89	Re-numbered Curve Data

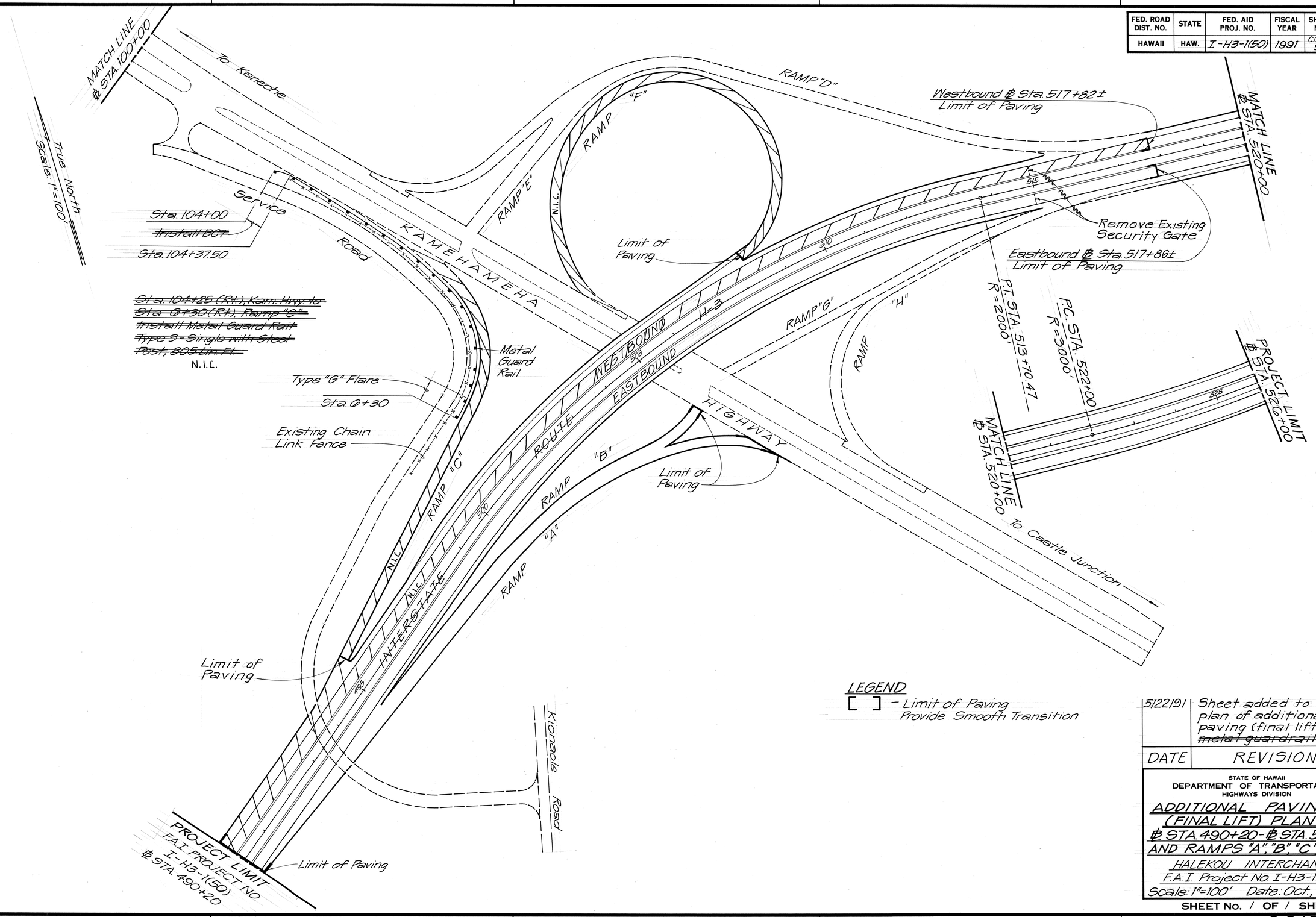
PLAN — SURVEYED, PLOTTED, NOTE BOOK, NO., ALIGNMENT CHECKED, RT. OF WAY CHECKED, BY, DATE

PROFILE — SURVEYED, PLOTTED, NOTE BOOK, NO., GRADES CHECKED, R.L. & M.L. STATIONS AGREE, STRUCTURE NOTATIONS CHKD., BY, DATE

PLATE 1—PLAN PROFILE B. P. R. STANDARD
THE FREDERICK POST CO., CHICAGO

C.O. ADD. 13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1991	C.013 S-1	164



LEGEND

[ ] – Limit of Paving
Provide Smooth Transition

DATE	REVISION
5/22/91	Sheet added to show plan of additional paving (final lift) ~~and metal guardrail.~~

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

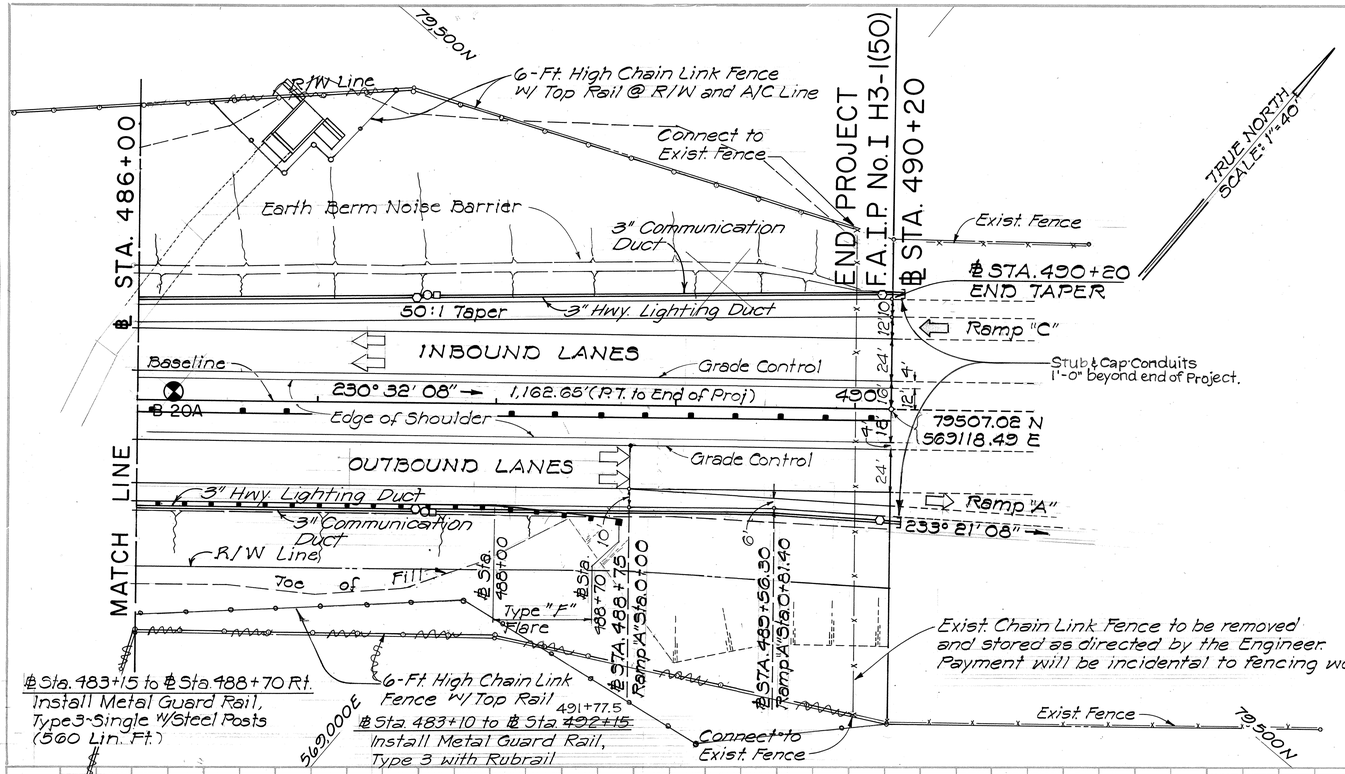
ADDITIONAL PAVING (FINAL LIFT) PLAN ℄ STA. 490+20 - ℄ STA. 520+00 AND RAMPS "A", "B", "C", & "F"

HALEKOU INTERCHANGE
F.A.I. Project No. I-H3-1(50)
Scale: 1"=100' Date: Oct., 1990

SHEET No. / OF / SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	14	164



GENERAL NOTES FOR LIGHTING COMMUNICATION

1. The 3" lighting and 3" communication conduits shall be direct-buried.
2. Minimum radius bend for the 3" communication conduit shall be 36".
3. Locate lighting and communication pullboxes and conduits outside of 61218 gutter except as shown on plan.
4. Emergency telephone system and vehicle detectors will be installed in a future contract.
5. The Contractor shall place the conduits and pullboxes such that adequate space is left for the future emergency telephone footings and concrete pads (see Typical Plan Detail, sht. c.o.14S-4, sht 13).

DATE	REVISION
8/12/91	Install Metal Guard Rail with Rubrail in Median
8/10/90	Added Communication and Lighting Conduits, Pullboxes, and Emergency Telephone Footing

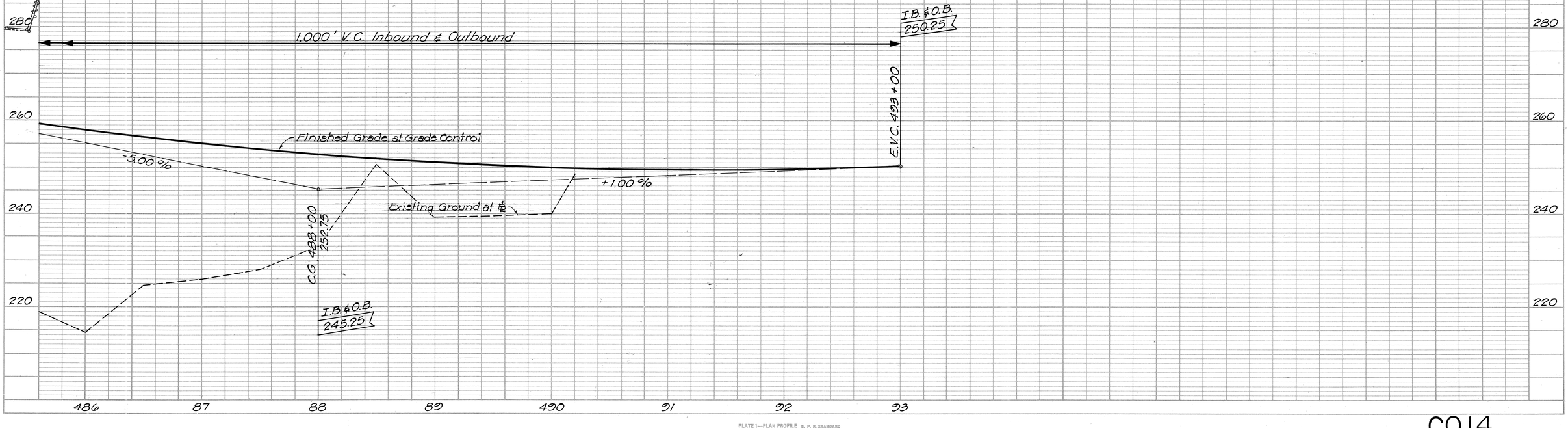
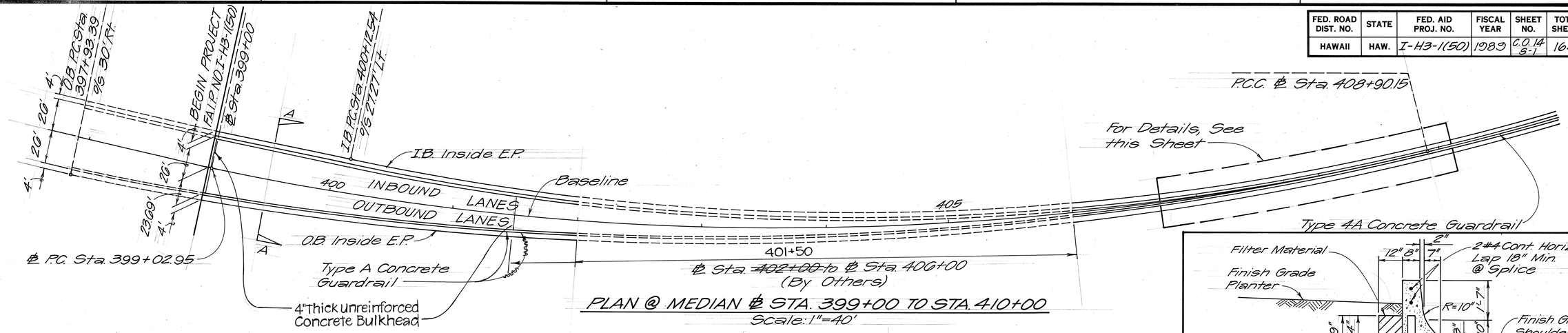


PLATE 1—PLAN PROFILE B. P. R. STANDARD
THE FREDERICK POST CO., CHICAGO

C0.14

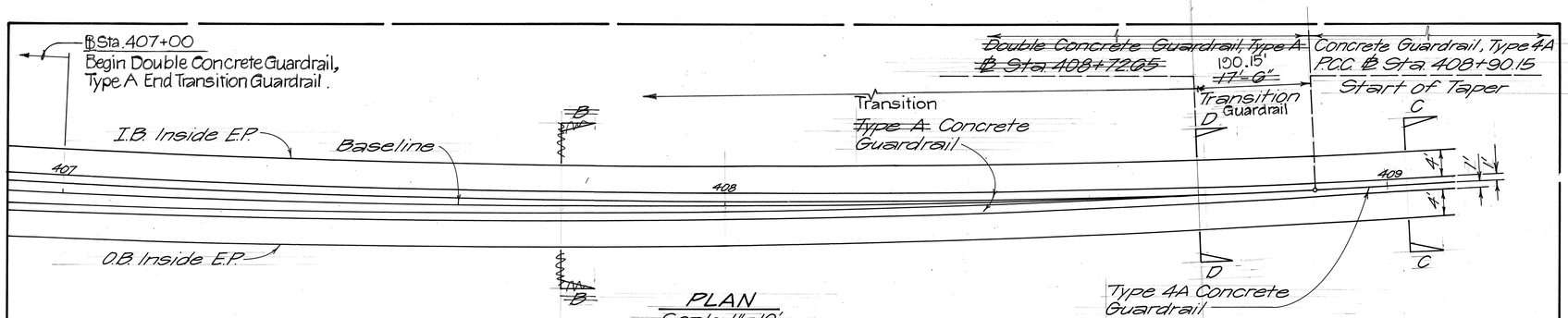
14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	C.O. 14 S-1	164



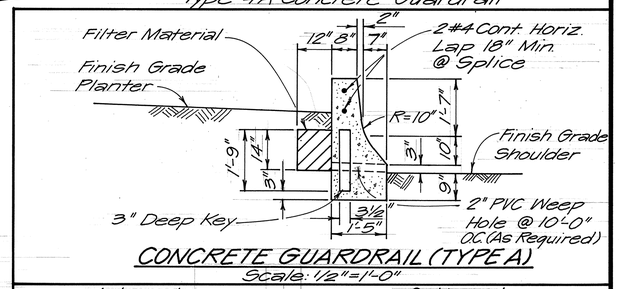
PLAN @ MEDIAN ℄ STA. 399+00 TO STA. 410+00

Scale: 1"=40'



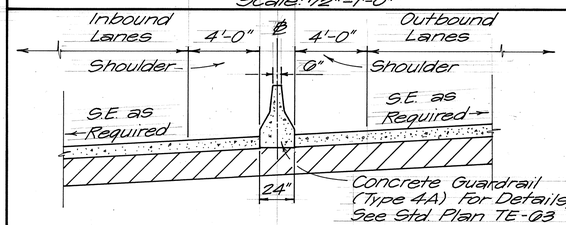
PLAN

Scale: 1"=10'



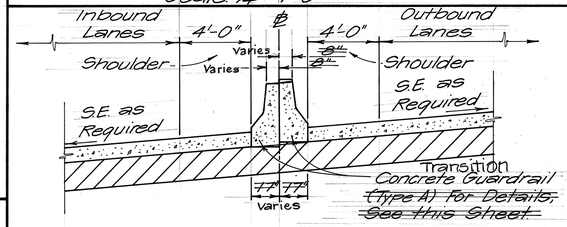
CONCRETE GUARDRAIL (TYPE A)

Scale: 1½"=1'-0"



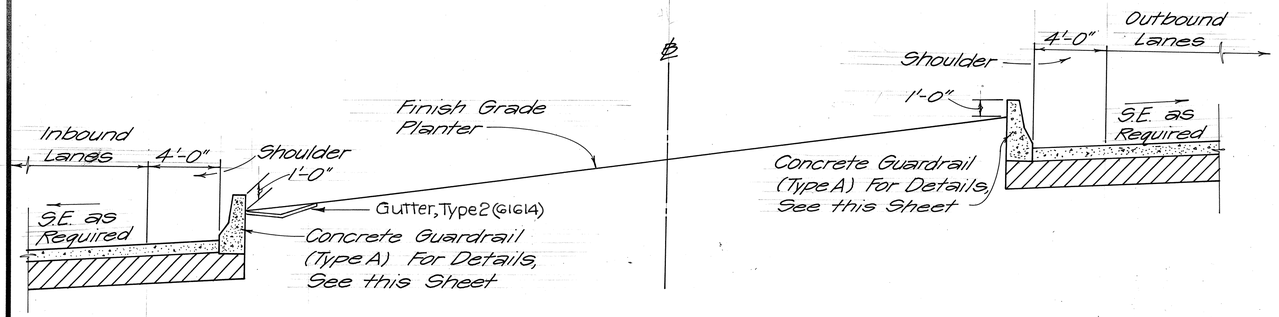
SECTION CC

Scale: ¼"=1'-0"



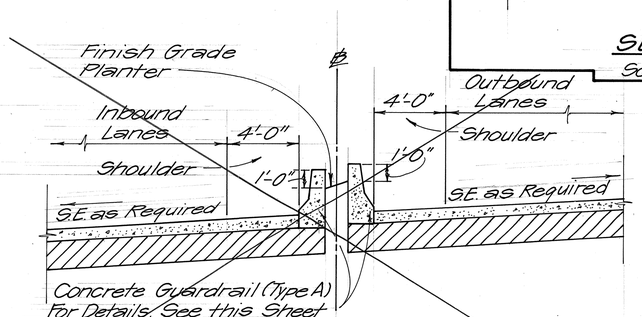
SECTION DD

Scale: ¼"=1'-0"



SECTION AA

Scale: ¼"=1'-0"



SECTION BB

Scale: ¼"=1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MEDIAN GUARDRAIL DETAIL

INTERSTATE ROUTE H-3
F.A.I. Project No. I-H3-1(50)

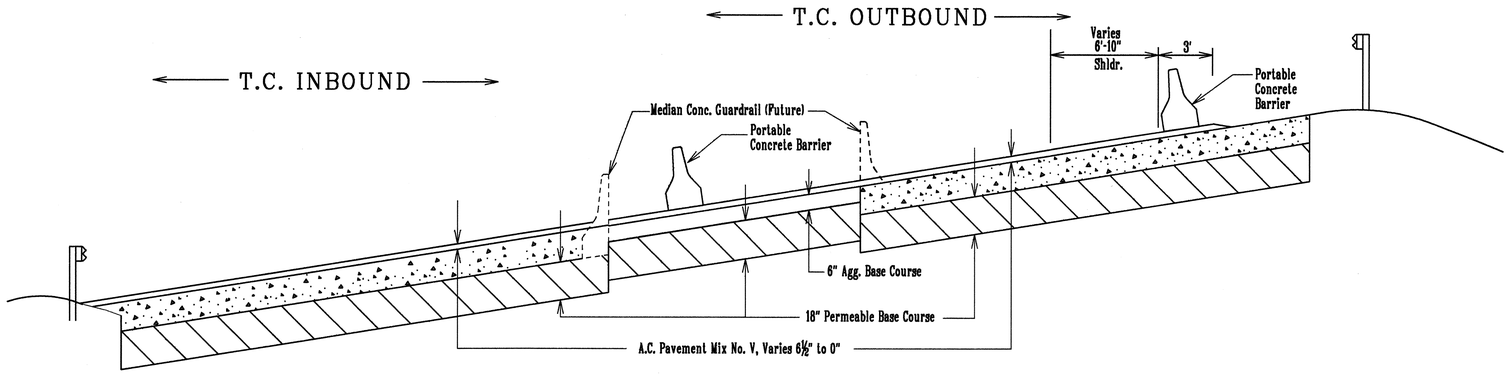
Scale: As Shown Date: Aug., 1990

SHEET No. OF SHEETS

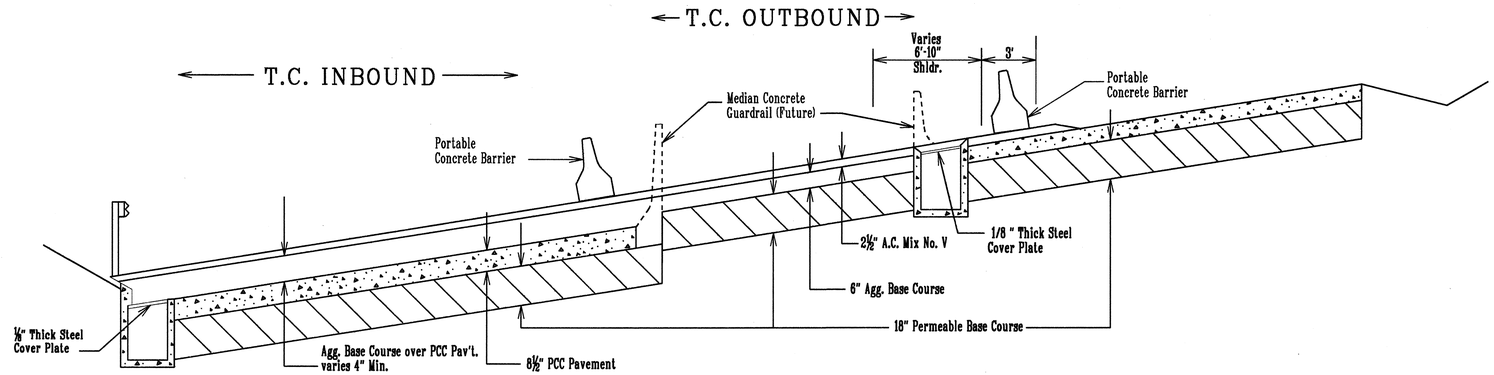
C.O.14S-1

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

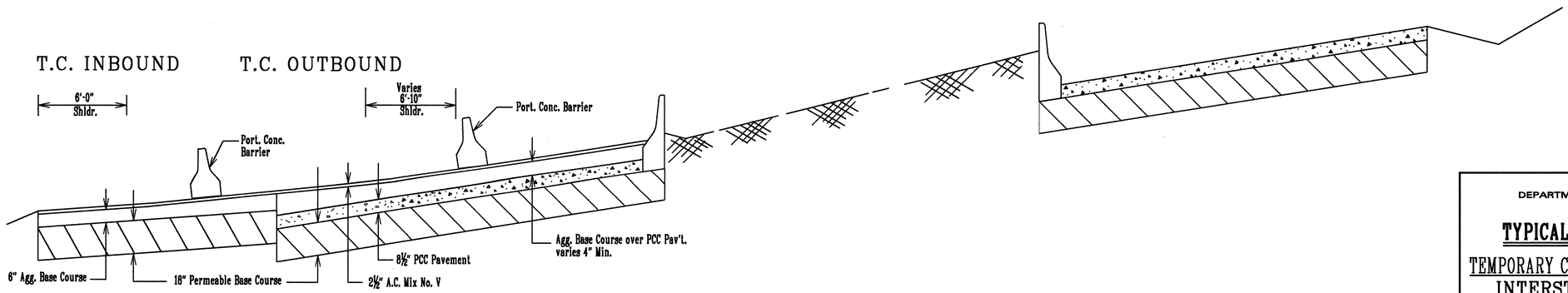
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1 (50)	1999	0	0



TYPICAL SECTION ③
H-3 ℄Sta. 403+00± to ℄Sta. 404+73±



TYPICAL SECTION ②
H-3 ℄Sta. 403+00± to ℄Sta. 404+73±



TYPICAL SECTION ①
H-3 ℄Sta. 401+00± to ℄Sta. 401+50±

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 4/99
	DRAWN BY Allen	
NOTE BOOK dob	TRACED BY X	
No. 0845-2	DESIGNED BY X	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL ROADWAY SECTIONS

TEMPORARY CONNECTOR, H-3 CROSSOVER
INTERSTATE ROUTE H-3
F.A.I. Project No. I-H3-1(50)

N.T.S. Date: April,1999

SHEET No. X OF X SHEETS

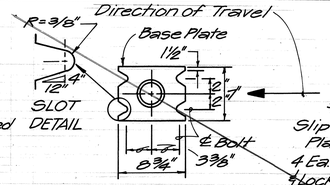
AS-BUILT

C.O.14S-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	C.O. 14 S-2	164

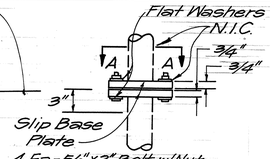
NOTES

1. All work in accordance with Section 622 of Standard Specifications.
2. Each conduit shall be checked and cleared of any obstructions.
3. Each conduit run provided with 1/8 inch polyolefin pull wire extending uninterrupted through handholes (junction box pull box) for the entire length of run.

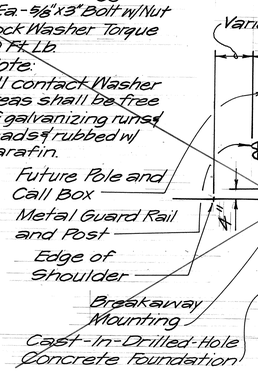


TOP & BOTTOM PLATE SECTION A-A

BREAKAWAY MOUNTING

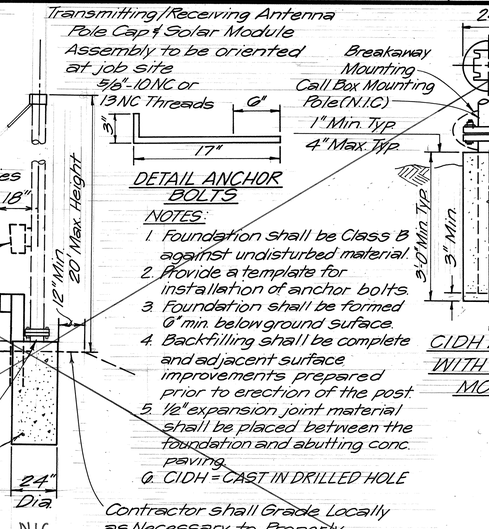


Note:
All contact Washer areas shall be free of galvanizing runs, beads & rubbed w/ paraffin.



NIC

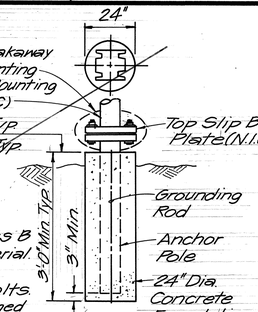
ELEVATION VIEW



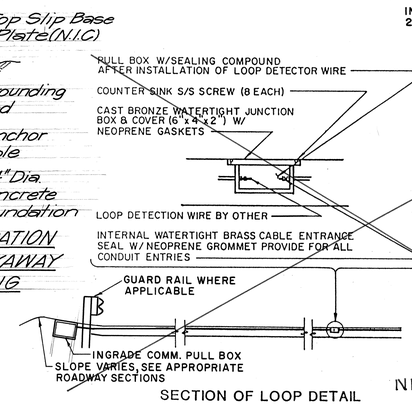
NOTES:

1. Foundation shall be Class B against undisturbed material.
2. Provide a template for installation of anchor bolts.
3. Foundation shall be formed 6" min. below ground suface.
4. Backfilling shall be complete and adjacent surface improvements prepared prior to erection of the post.
5. ½" expansion joint material shall be placed between the foundation and abutting conc. paving.

G. CIDH = CAST IN DRILLED HOLE

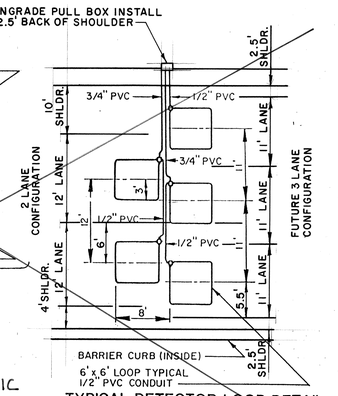


CIDH FOUNDATION WITH BREAKAWAY MOUNTING



SECTION OF LOOP DETAIL

NIC



TYPICAL DETECTOR LOOP DETAIL

TYPICAL VEHICLE DETECTOR STATION INSTALLATION

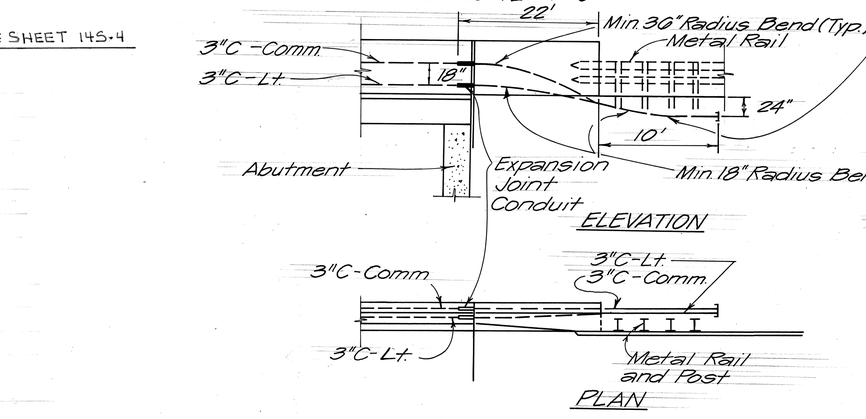
NOT TO SCALE

SUMMARY

LOCATIONS OF EMERGENCY TELEPHONE FOOTING AND PULLBOXES, HIGHWAY LIGHTING PULLBOXES AND VEHICLE DETECTOR STATIONS

EMERGENCY TELEPHONE ○		COMMUNICATION □		LIGHTING ○		VEHICLE DETECTOR	
I.B.	O.B.	I.B.	O.B.	I.B.	O.B.	I.B.	O.B.
		399+33	401+15	399+15	399+15		
		401+98	404+05	401+75	401+75		
		404+05	407+20	404+35	404+35	404+05	404+05
		407+20	409+05	409+95	409+95		
409+60	409+60	409+05	412+50	409+55	409+55		
		412+50	414+70	412+15	412+15		
		414+70	417+80	414+75	414+75		
		417+80	420+40	417+35	417+35		
		420+40	422+05	419+95	419+95		
422+60	422+60	422+05	425+70	422+55	422+55		
		425+70	428+35	425+15	425+15		
		428+35	431+00	427+75	427+75		
		431+00	433+60	430+35	430+35	431+00	431+00
		433+60	435+05	432+95	432+95		
435+60	435+60	435+05	438+75	435+55	435+55		
		438+75	441+25	438+15	438+15		
		441+25	443+75	440+75	440+75		
		443+75	446+45	443+35	443+35		
		446+45	448+05	445+95	445+95		
448+60	448+60	448+05	451+70	448+55	448+55		
		451+70	454+45	451+15	451+15		
		454+45	457+20	453+75	453+75		
		457+20	459+90	456+35	456+35	457+20	457+20
		459+90	461+05	458+95	458+95		
461+00	461+00	461+05	465+30	461+55	461+55		
		465+30	467+95	464+15	464+15		
		467+95	470+00	466+75	466+75		
		470+00	473+20	469+35	469+35		
		473+20	474+05	471+95	471+95		
474+00	474+00	474+05	478+35	474+55	474+55		
		478+35	480+85	477+15	477+15		
		480+85	483+35	479+75	479+75	480+85	480+85
		483+35	485+45	482+35	482+35		
		485+45	487+05	484+95	484+95		
487+00	487+00	487+05		487+55	487+55		
				490+15	490+15		

SEE SHEET 145-4



NIC

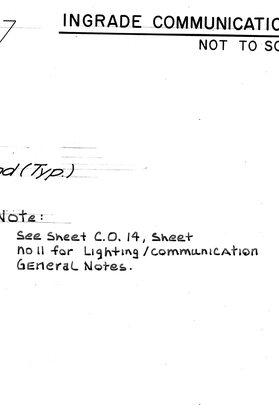
PLAN VIEW

EMERGENCY TELEPHONE AT-GRADE INSTALLATION DETAIL

Scale: 1½"=1'-0"

CONDUIT TRANSITION DETAIL

Not to Scale



NOTES:

1. BOXES SHALL BE POLYMER CONCRETE, FIBER GLASS REINFORCED.
2. PROVIDE STACKED BOXES WITH APPROPRIATE KNOCK OUTS TO ACCOMMODATE REQUIRED NUMBER & SIZES OF CONDUITS.
3. BOXES INSTALLED IN TRAFFIC AREAS SHALL BE PROVIDED WITH TRAFFIC BEARING LIDS CAPABLE OF SUPPORTING H-20 LOADING.
4. FOR INGRADE LIGHTING PULL BOX DETAIL (TYPE "A"), SEE STD. PLAN TE-41.
5. PULL BOXES SHALL BE DESIGNATED "COMM" FOR COMMUNICATIONS CONDUITS & "LIGHTING" FOR LIGHTING CONDUITS

INGRADE COMMUNICATION PULL BOX DETAIL

NOT TO SCALE

Note:
See Sheet C.O. 14, Sheet No 11 for Lighting/Communication General Notes.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

INTERSTATE ROUTE H-3
F.A.I. Project No. I-H3-1(50)

Scale: As Shown Date: Aug., 1990

SHEET No. OF SHEETS

C.O.14 S-23

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(150)	1989	C0.145-1	164

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF W/AY CHECKED, NOTE BOOK, NO.

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, R. R.'S & HWYS., STRUCTURE NO'S & TYP'S CK'D., DATE, BY

True North
Scale: 1 in. = 50 Ft.

Begin Taper @ Sta 490+20 "H-3"

6' High Chain Link Fence w/Top Rail

Boring No. 4

P.T. Sta. 15+19.73 End Ramp "C" @ Sta 492+52.16 "H-3"

Boring No. 5

Nose Sta 14+09.71 Ramp "C" @ Sta 493+64.01 "H-3"

P.C. Sta 13+29.30 R=1000.00 Ramp "C"

To Begin Ends Slope @ Sta

End Fence @ Bridge Abut.

RAMP "C" (See Sht 12P)

Type "G" Flare

℄ STA. 490+88.01

℄ STA. 490+75

℄ STA. 497+25

270 Taper I

℄ Sta. 498+81.22 "H-3"

End Taper

℄ STA. 499+99.01

Relocate ℄ Sta. 501+40 to ℄ Sta. 502+15.

~~℄ Sta. 500+05 to ℄ Sta. 502+15~~
~~Remove exist Guard Rail, Type 3 w/Rubrail (220 L.F.)~~

Metal Guard Rail

Boring No. 16

Boring No. 23

Boring No. 15

EARTH MOUND FOR DET. SEE PLAN SHT. NO. 60

STA. 500+00 PIGEOT BLOCK

MATCH LINE STA. 480+00 Cont. Below

FILL SECTION

CUT SECTION

Boring No. 3

Boring No. 6

℄ Sta. 492+21.79

℄ Sta. 494+90.25

230°13'03"

875.00 (BC 4+13 PC)

230°37'

INTERSTATE ROUTE H-3

WESTBOUND GRADE CONTROL

EASTBOUND GRADE CONTROL

Remove Concrete Pad

75'

75'

3.45

S 49°-15'-15" E

RAMP "A" (See Sht 8P)

SERVICE ROAD

Type III Barricades

PROJECT LIMIT

FAI PROJECT NO. I-H3-1
Baseline Sta. 490+00

Cut Section Daylighting to existing ground

SEE SKETCH 50-B

CUT SECTION

℄ STA. 492+24.05 "H-3"

℄ STA. 491+50

℄ STA. 478+25

Install BCT

℄ Sta 498+62.5

℄ Sta 498+95.08

P.C. Sta 498+95.08

Exist. Kionaole Road

R/W Line

MATCH LINE STA. 480+00

6' High Chain Link Fence w/Top Rail

491+77.5

℄ Sta. 483+10 to ℄ Sta. ~~492+15~~
Install Guard Rail, Type 3 w/Rubrail

BEGIN RAMP "A" 0+00

℄ STA. 483+75

6' High Chain Link Fence w/Top Rail @ R/W and A/C Line.

491+77.5

℄ Sta. ~~492+15~~ to ℄ Sta. 492+90
Install Guard Rail, Type 3 w/Rubrail, 5 ft-post at 3'-1½" O.C.
Transition post from outside gutter to center. (see sketch No 50-B)

Modified

℄ Sta. 492+90 to ℄ Sta. 493+25
Install Metal Guard Rail Transition (25 L.F.) & Construct Type 4A Transition (10 L.F.) See Typ. Det., Plan Sht. No. C0. 145-2

6' High Chain Link Fence w/Top Rail @ R/W and A/C Line.

℄ Sta. 493+90 to ℄ Sta. 494+25
Construct Type 4A Transition (10 L.F.) & Install Metal Guard Rail Transition (25 L.F.) See Typ. Det., Plan Sht. No. C0. 145-2

℄ Curve Data
Δ = 42° 16'
D = 21° 08'
R = 2000.00
T = 773.07
C = 1442.16
Lc = 1475.30

℄ Sta. 495+00 to ℄ Sta. ~~502+15~~
Install Metal Guard Rail, Type 3 w/Rubrail (~~715~~ L.F.)
Tie in New Guard Rail to ~~exist.~~

Modified (See sketch no. 50-B)

3-1½" O.C.

Metal Guard Rail

251° 45'

1442.16

15:1 Flare

MATCH LINE STA. 504+00

501+40
640
8/12/91
DATE

Install Metal Guard Rail with Rubrail in Median
REVISION

INTERSTATE ROUTE H-3

Service Road Bridge

Ramp "C" H-3

End Ramp "C" Sta 15+19.73 H-3

Nose Sta 14+09.71 Ramp "C" Sta 493+64.01 H-3

EVC STA 492+00

EVC STA 498+00

MATCH LINE STA. 480+00 Cont. Below

PROJECT LIMIT

STA 490+20

Existing Ground @ ℄

1000' V.C.

Stiff, brown clayey silt

Stiff, brown clayey silt w/ black cinders

Stiff, reddish brn. & black clayey silt

BORING No 3

BORINGS No. 4 & 5 (SEE PLAN SHT. NO. 28)

BORING No 6 (SEE PLAN SHT. NO. 24)

FINISHED GRADE AT GRADE CONTROL

+1.00 %

-0.50 %

BORING No 10 (SEE PLAN SHT. NO. 24)

BORING No 15

Soft, reddish brn. clayey silt

Very soft, reddish brn. clayey silt w/ gravel

Medium, brn. w/ black & lt. brn. clayey silt w/ decomposed rock

BORING No 23 (SEE PLAN SHT. NO. 24)

MATCH LINE STA. 504+00

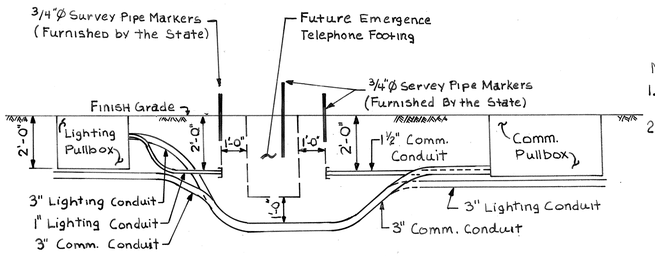
Scale: Horiz. 1" = 50
Vert. 1" = 10'

PLAN & PROFILE H-3

PLATE I—PLAN PROFILE B. P. R. STANDARD
THE FREDERICK POST CO., CHICAGO

SHEET NO. OF SHEETS C.0.145-14

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	C.O. 14S-3	164



DUCT LINE PROFILE

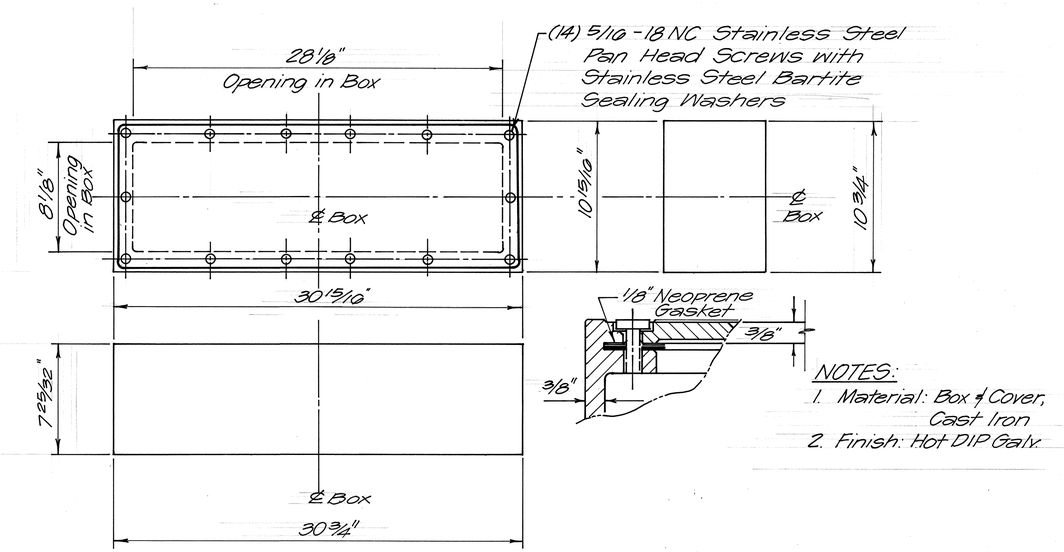
AT FUTURE EMERGECY TELEPHONE FOOTING

(N.T.S.)

NOTES:

1. Contractor shall mark conduit stubouts with stakes.
2. Contractor shall note the following minimum bending radii for conduits:

Conduit	Min. Bending Radius
1" Lighting	5 3/4"
1½" Communication	9½
3" Lighting	13"
3" Communication	36"

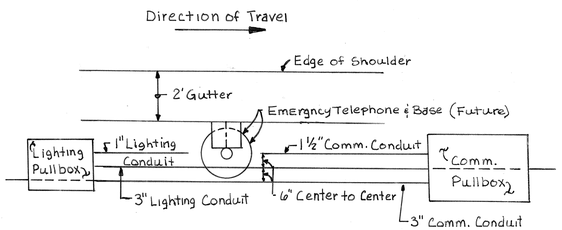


NOTES:

1. Material: Box & Cover, Cast Iron
2. Finish: Hot DIP Galv.

STRUCTURE LIGHTING PULL BOX DETAIL

Not to Scale



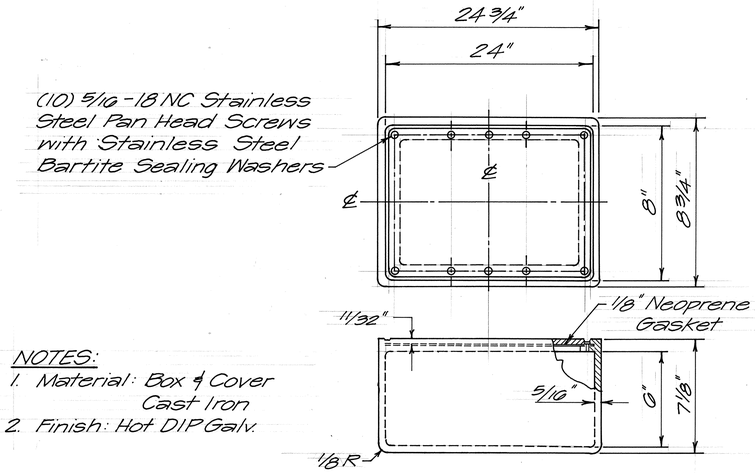
PLAN VIEW

WINDWARD HWY EMERGENCY TELEPHONE

(N.T.S.)

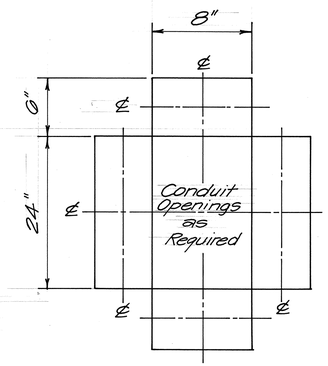
NOTES:

1. Distances between Pullboxes and emergency telephones vary See Pullbox Station Schedule for locations.
2. Contractor shall firmly compact soil around emergency telephone footing before pouring concrete.
3. Contractor shall take care to ensure existing conduits are note damaged when constructing footing for emergency telephone.



NOTES:

1. Material: Box & Cover Cast Iron
2. Finish: Hot DIP Galv.



DRILLING TEMPLATE

Looking into Box-Sides Laid Down, All Dim. are from Inside of Box.

STRUCTURE COMMUNICATION PULL BOX DETAIL

Not to Scale

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

Date	Revision

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

INTERSTATE ROUTE H-3

F.A.I. Project No. I-H3-1(50)

Scale: As Shown Date: Aug., 1990

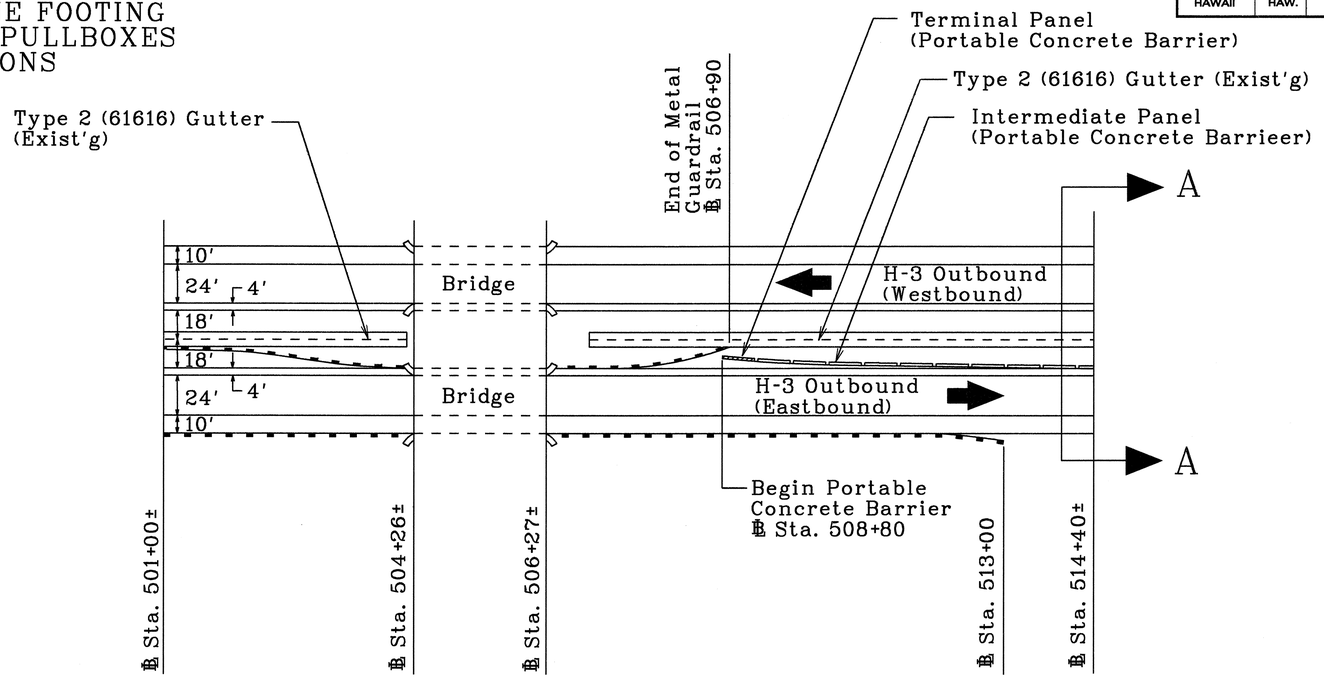
SHEET No. 2 OF 2 SHEETS

C.O. 14S-3 5

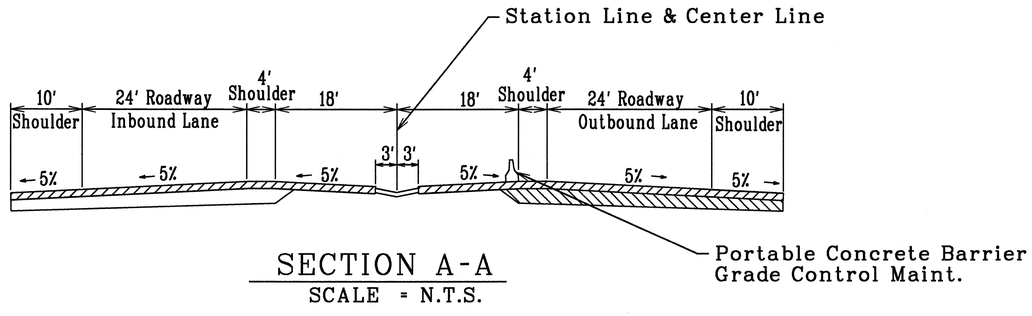
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				

SUMMARY
LOCATIONS OF EMERGENCY TELEPHONE FOOTING AND PULLBOXES, HIGHWAY LIGHTING PULLBOXES AND VEHICLE DETECTOR STATIONS

COMMUNICATION		LIGHTING	
I.B.	O.B.	I.B.	O.B.
	404+05		
404+05	407+20	404+35	404+35
407+20	409+65	406+95	406+95
409+65	412+28	409+55	409+55
412+28	414+70	412+15	412+15
414+70	417+80	414+75	414+75
417+80	420+40	417+35	417+35
420+40	422+65	419+95	419+95
422+65	425+28	422+55	422+55
425+28	428+35	425+15	425+15
428+35	430+50	427+75	427-75
430+50	433+60	430+35	430+35
433+60	436+10	432+95	432+95
436+10	427+95	435+55	435+55
437+95	441+25	438+15	438+15
441+25	443+75	440+17	440+75
443+75	446+45	443+35	443+35
446+35	448+35	445+95	445+95
448+35	451+40	448+40	448+40
451+40	453+80	451+15	451+15
453+80	456+50	453+75	453+75
456+50	459+90	456+35	456+35
459+90	461+65	458+95	458+95
461+65	465+40	461+55	461+55
465+40	467+00	464+15	464+15
467+00	470+60	466+75	466+75
470+60	473+20	469+35	469+35
473+20	474+65	471+95	471+95
474+65	477+40	474+55	474+55
477+40	480+07	477+15	477+15
480+07	483+35	479+75	479+75
483+35	485+45	482+35	482+35
485+45	488+10	484+95	484+95
488+10		487+55	487+55
		490+15	490+15



PORTABLE CONC. BARRIER
H-3 STA. 508+80' TO STA. 514+40±



SECTION A-A
SCALE = N.T.S.

LCATION OF FURTURE EMERGENCY TELEPHONE (IB & OB)	COMUNITCATION		HIGHWAY LIGHTING	
	LOCATION OF PULLBOX	LENGTH OF 1½" CONDUIT STUBOUT	LOCATION OF PULLBOX	LENGTH OF 1½" CONDUIT STUBOUT
Sta. 425+21	Sta. 425+28	5'	Sta. 425+15	4'
Sta. 439+10	Sta. 439+00	8'	Sta. 438+15	93'
Sta. 451+00	Sta. 451+40	38'	Sta. 451+15	13'
Sta. 464+00	Sta. 464+40	38'	Sta. 464+15	13'
Sta. 480+45	Sta. 480+07	36'	Sta. 479+75	68'

(Established under CCO 23, 2nd Supply)

ORIGINAL PLAN | NOTE BOOK | SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING CHART AND PORTABLE CONCRETE BARRIER DETAIL

INTERSTATE ROUTE H-3

F.A.I. PROJECT NO. I-H3-1(50)

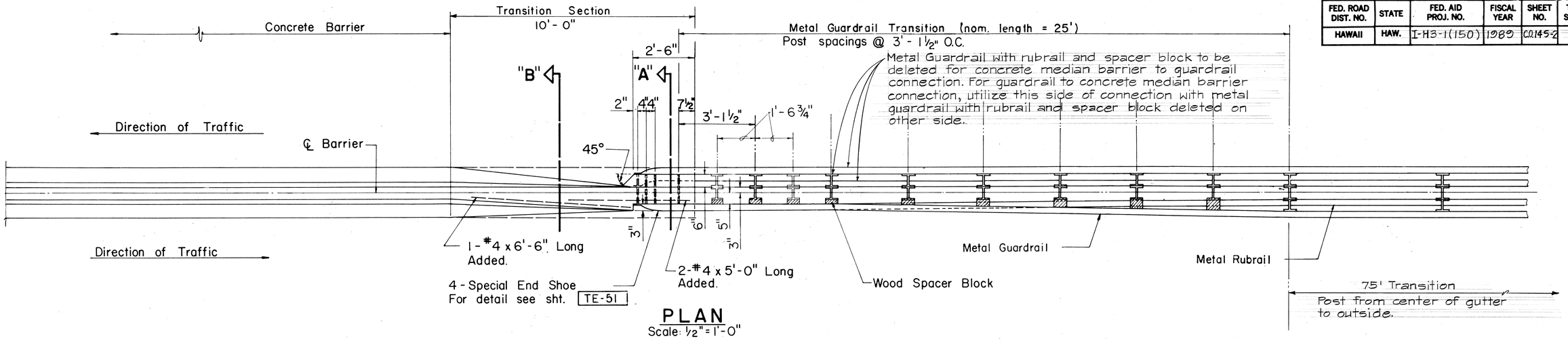
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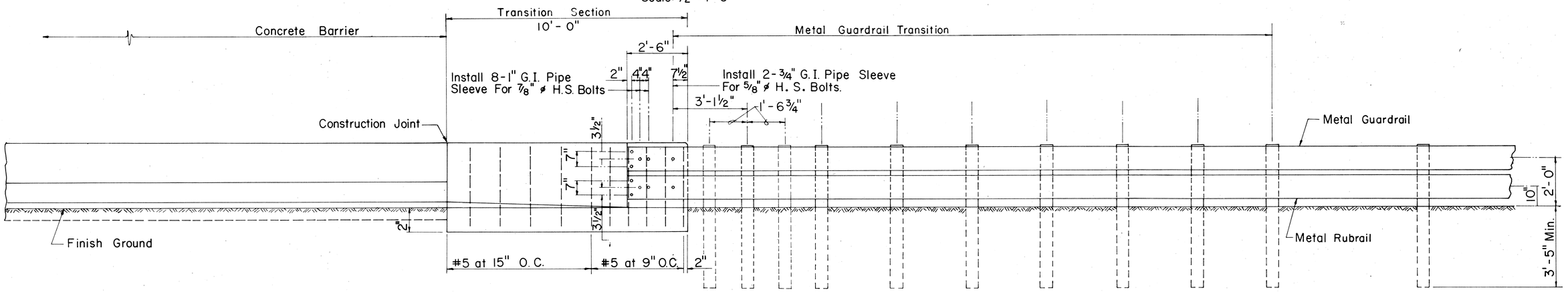
AS-BUILT

14S-6

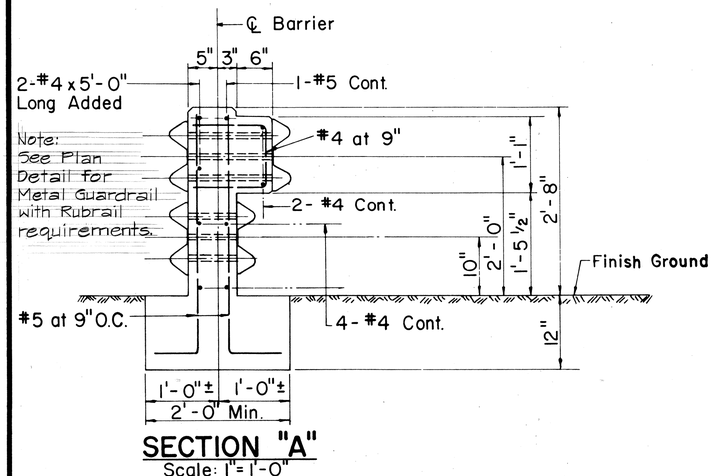
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(150)	1989	C0145-2	164



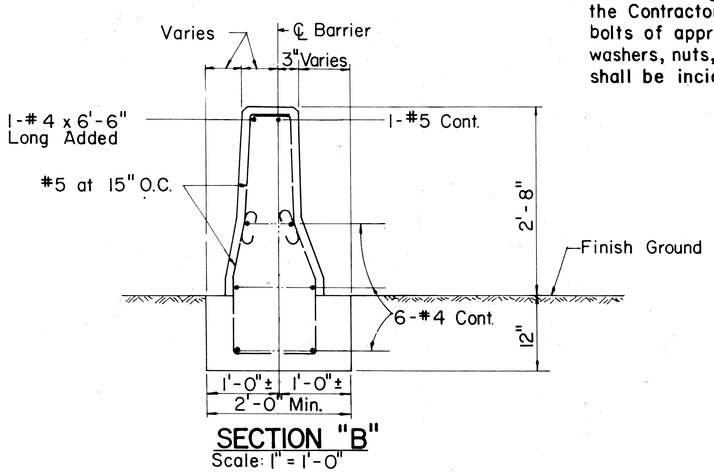
PLAN
Scale: ½" = 1'-0"



ELEVATION
Scale: ½" = 1'-0"



SECTION "A"
Scale: 1" = 1'-0"



SECTION "B"
Scale: 1" = 1'-0"

NOTE:

For anchoring metal guard rail elements to concrete barrier, the Contractor shall furnish and install reinforcing steel, bolts of appropriate lengths and size with appurtenant washers, nuts, wooden blocks and pipe sleeves. (Payments shall be incidental to concrete barrier.)

DATE	REVISION
8/12/91	Added Metal Guardrail Connection to Concrete Barrier Detail Sheet

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONCRETE BARRIER CONNECTION

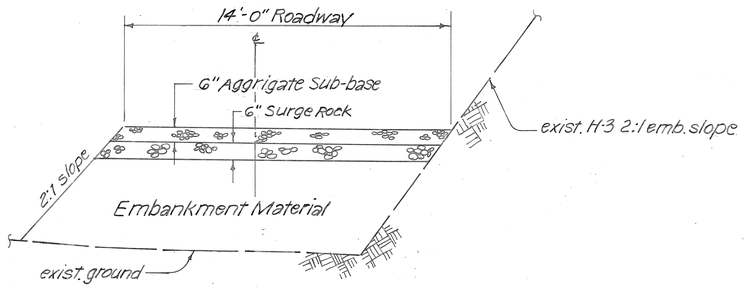
INTERSTATE ROUTE H-3
KANEOHE I.C. TO HALEKOU I.C.
PROJECT NO. I-H3-1(150)

SHEET NO. OF SHEETS

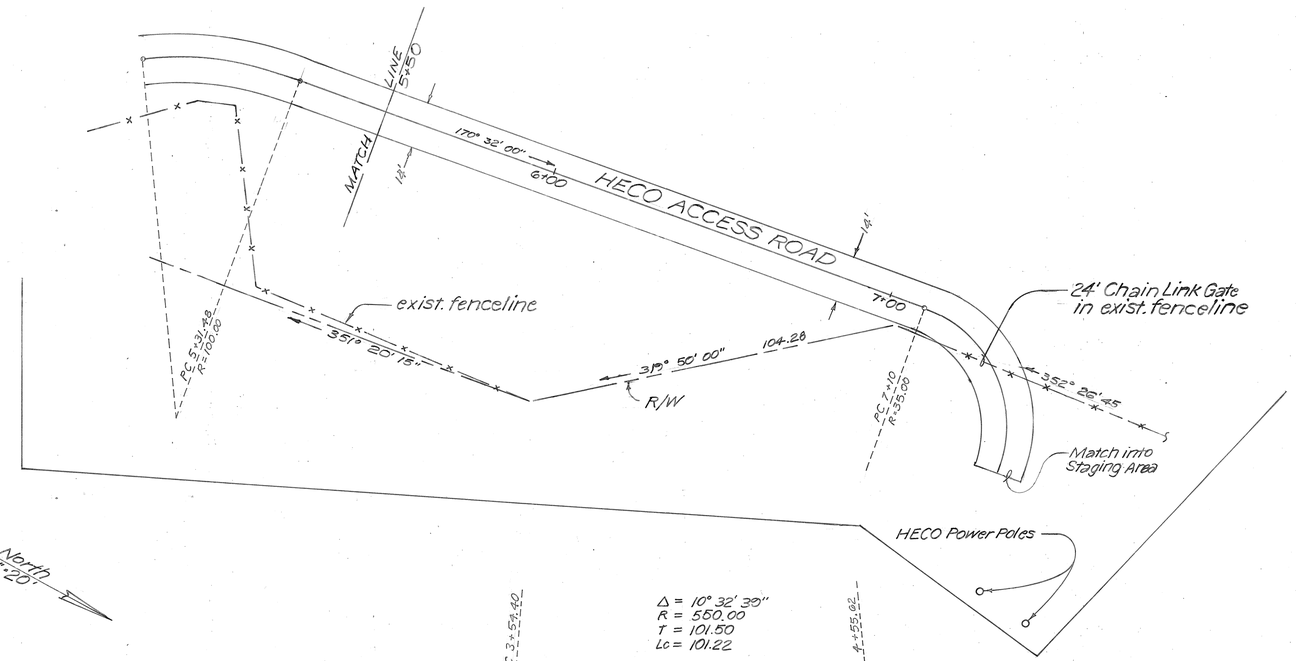
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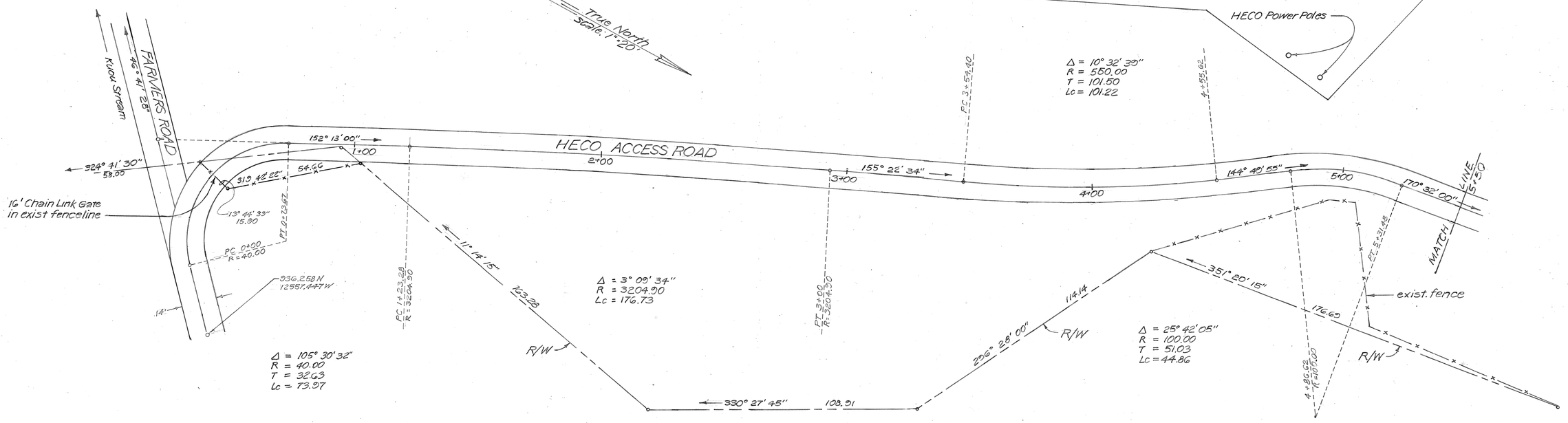
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE
ORIGINAL PLAN
NOTE BOOK
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	C.0.14S-8	164



TYPICAL CROSS SECTION
N.T.S.





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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN and TYPICAL CROSS SECTION
HECO ACCESS ROAD
Kuou Stream to Power Line Easement
INTERSTATE ROUTE H-3
F.A.I. Proj. No. I-H3-1(50)

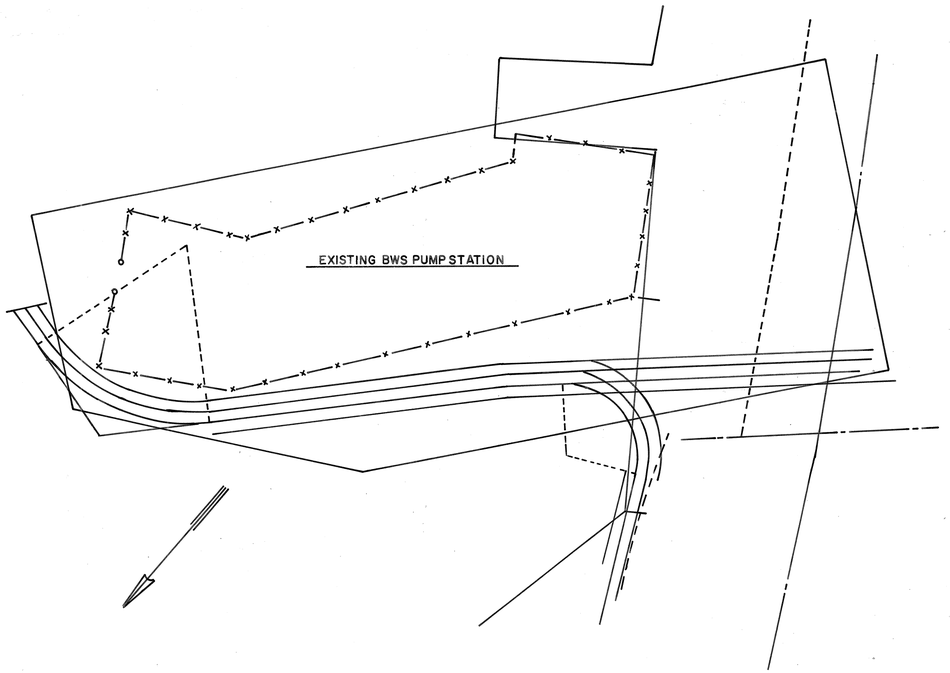
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SHEET No. OF SHEETS

C.0.14S-8

137218

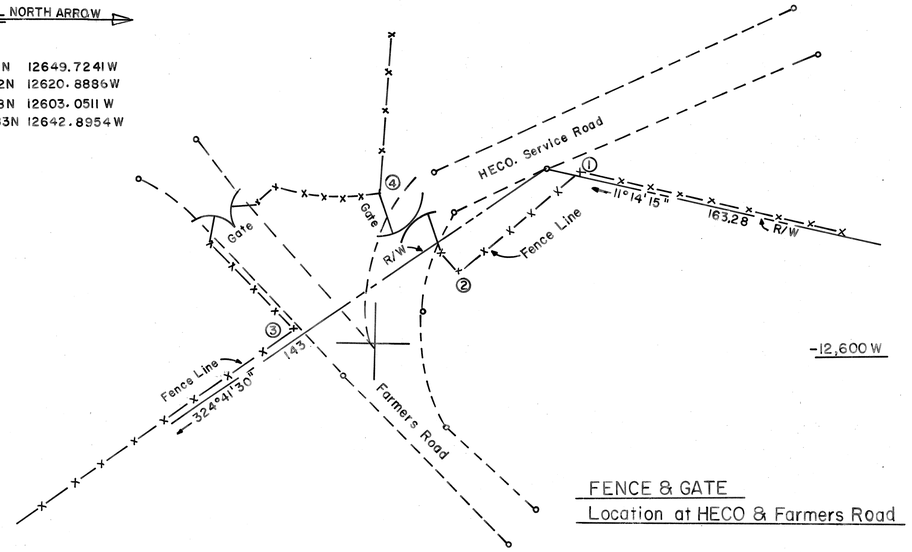
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(50)	1989	CO14S-9	164



NORTH ARROW

① 956.1837N 12649.7241W
② 922.0562N 12620.8886W
③ 877.0628N 12603.0511W
④ 899.8983N 12642.8954W

12,600 W

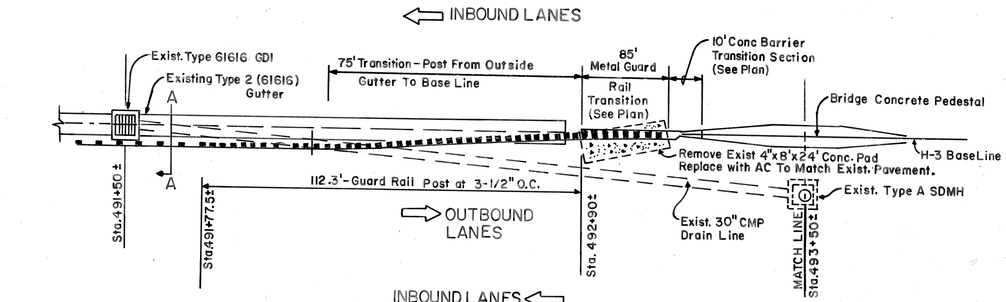


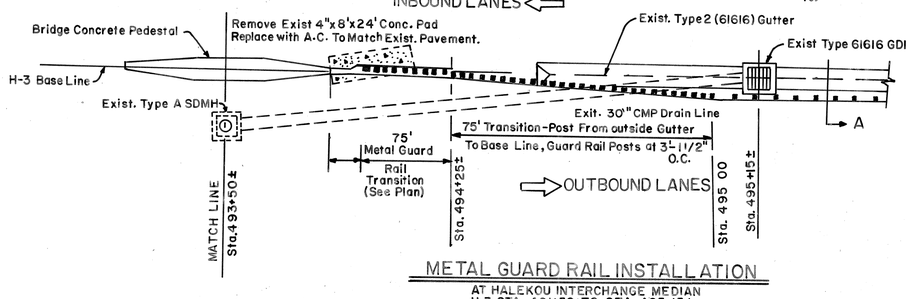
-12,600 W

FENCE & GATE
Location at HECO & Farmers Road

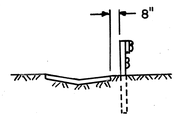
N900

TYPICAL CULVERT CROSSING DETAIL





METAL GUARD RAIL INSTALLATION
AT HALEKOU INTERCHANGE MEDIAN
H-3 STA. 491+50± TO STA. 495+15±



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

FARMERS ACCESS ROAD
LOCATION OF FENCE & GATE

INTERSTATE ROUTE H-3
F.A.I. PROJ.NO. I-H3-1(50)

SCALE: AS NOTED DATE JUL., 1988

SHEET No. OF SHEETS

AS-BUILT

CO14S-9