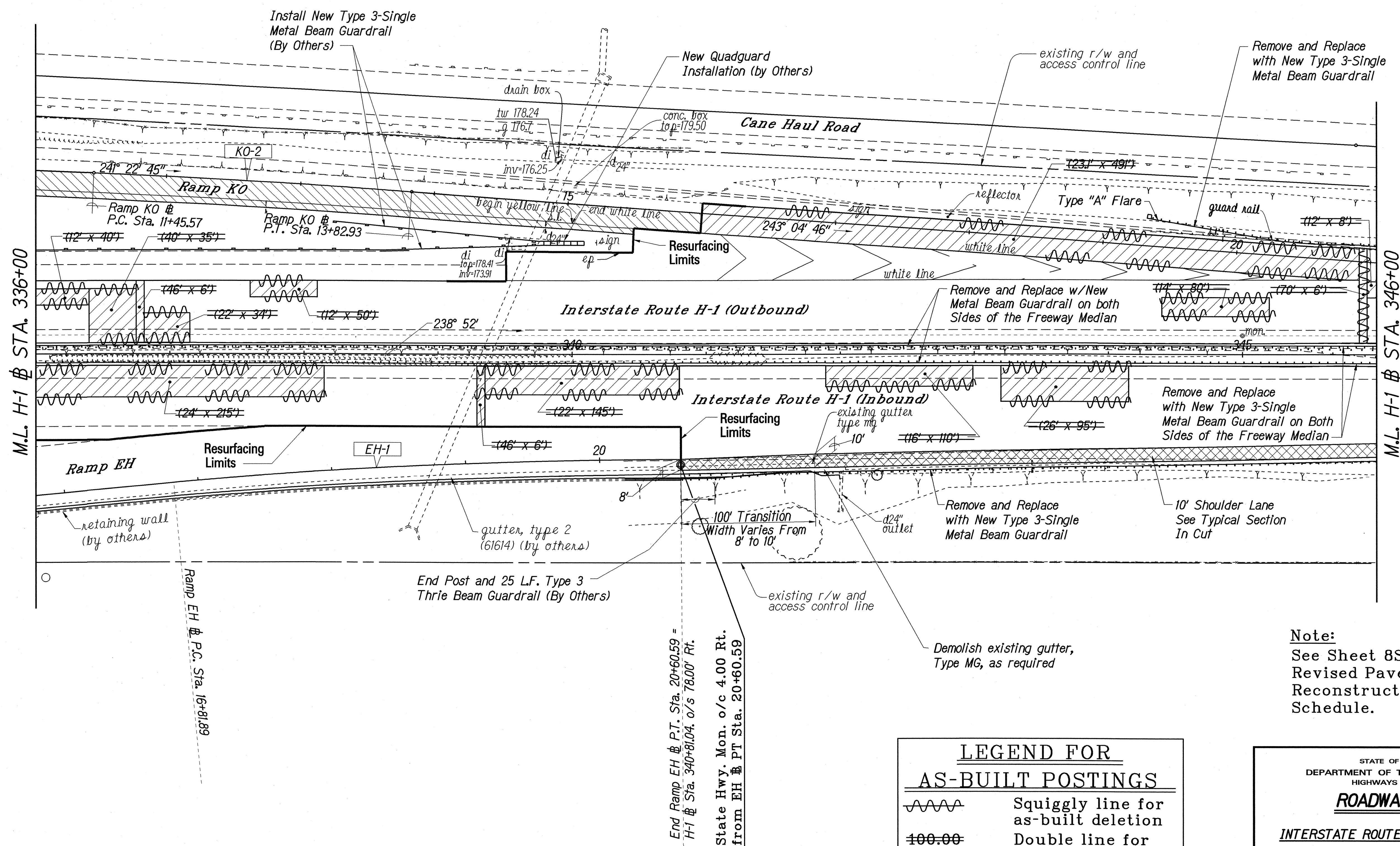


CURVE DATA		
	KO-2	EH-1
Δ	$1^{\circ} 42' 00''$	$5^{\circ} 00' 30''$
R	8,000.00	4,332.32
T	118.69'	189.47'
Ch	237.36'	378.58'
Lc	237.36'	378.70'



<u>LEGEND FOR</u>	
<u>AS-BUILT POSTINGS</u>	
	Squiggly line for as-built deletion
100.00	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

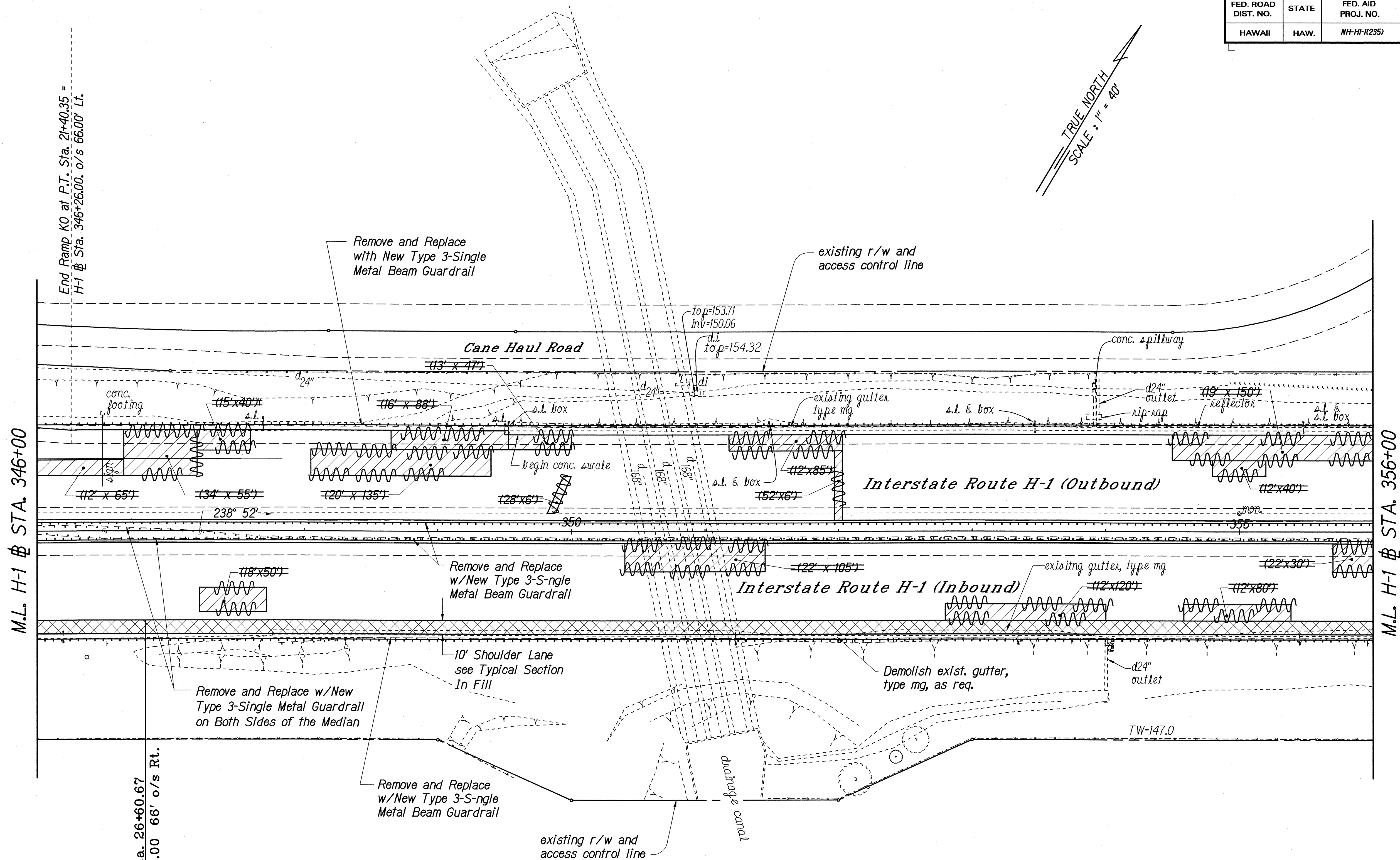
INTERSTATE ROUTE H-1 RESURFACING
Kunia IC to Waikale Stream Bridge
F.A.I. Project No. NH-HI-K235)

Scale: As Shown Date: Apr. 30, 1999

SHEET No. R2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(235)	1999	11	84

TRUE NORTH
SCALE: 1" = 40'



ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	01/27/99
SCALE	1" = 40'
FILE	984-72

PM: BST
OPER: SHA+FAI
REVISED: 03/18/99

End Ramp KE Sta. 26+60.67
H-1 @ Sta. 346+81.00 66' o/s Rt.

M.L. H-1 @ STA. 346+00

M.L. H-1 @ STA. 356+00

Note:
See Sheet 8S-1 for
Revised Pavement
Reconstruction
Schedule.

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

INTERSTATE ROUTE H-1 RESURFACING
Kunila IC to Waialeale Stream Bridge
F.A.I. Project No. NH-HI-1(235)

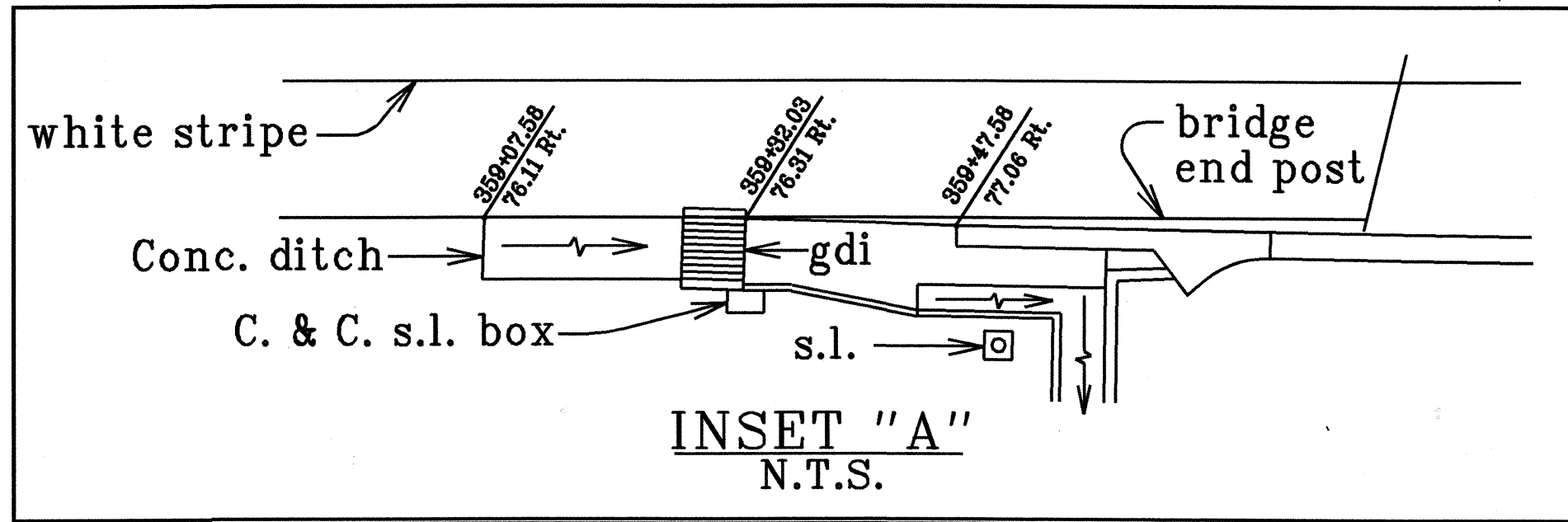
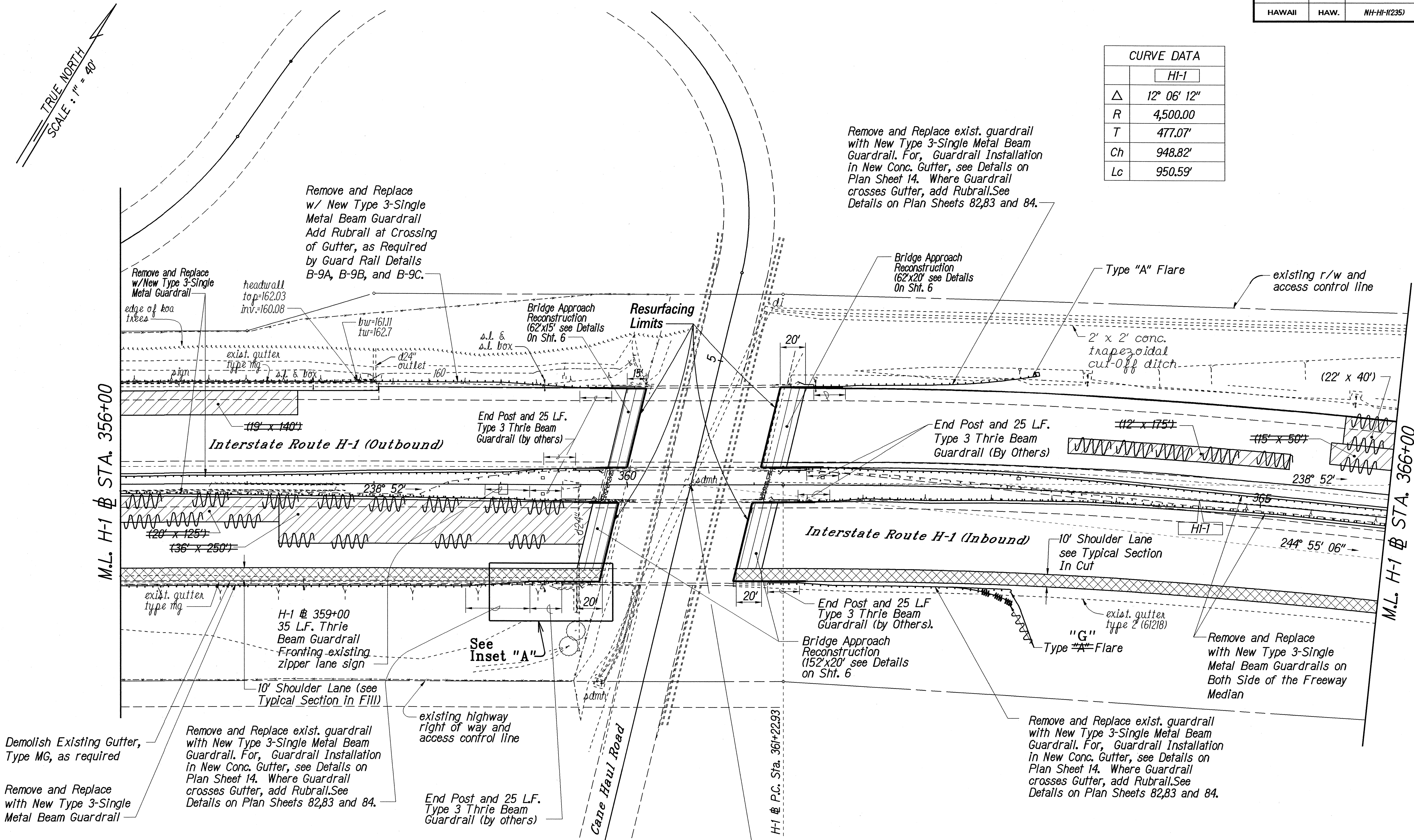
Scale: As Shown Date: Apr. 30, 1999

SHEET No. R3 OF 6 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	NH-HI-1(235)	1999	12	84

CURVE DATA	
	HI-1
Δ	12° 06' 12"
R	4,500.00
T	477.07'
Ch	948.82'
Lc	950.59'



Note:
See Sheet 8S-1 for
Revised Pavement
Reconstruction
Schedule.

<u>LEGEND FOR</u> <u>AS-BUILT POSTINGS</u>	
	Squiggly line for as-built deletion
100.00	Double line for as-built deletion
Roadway	Text for as-built posting

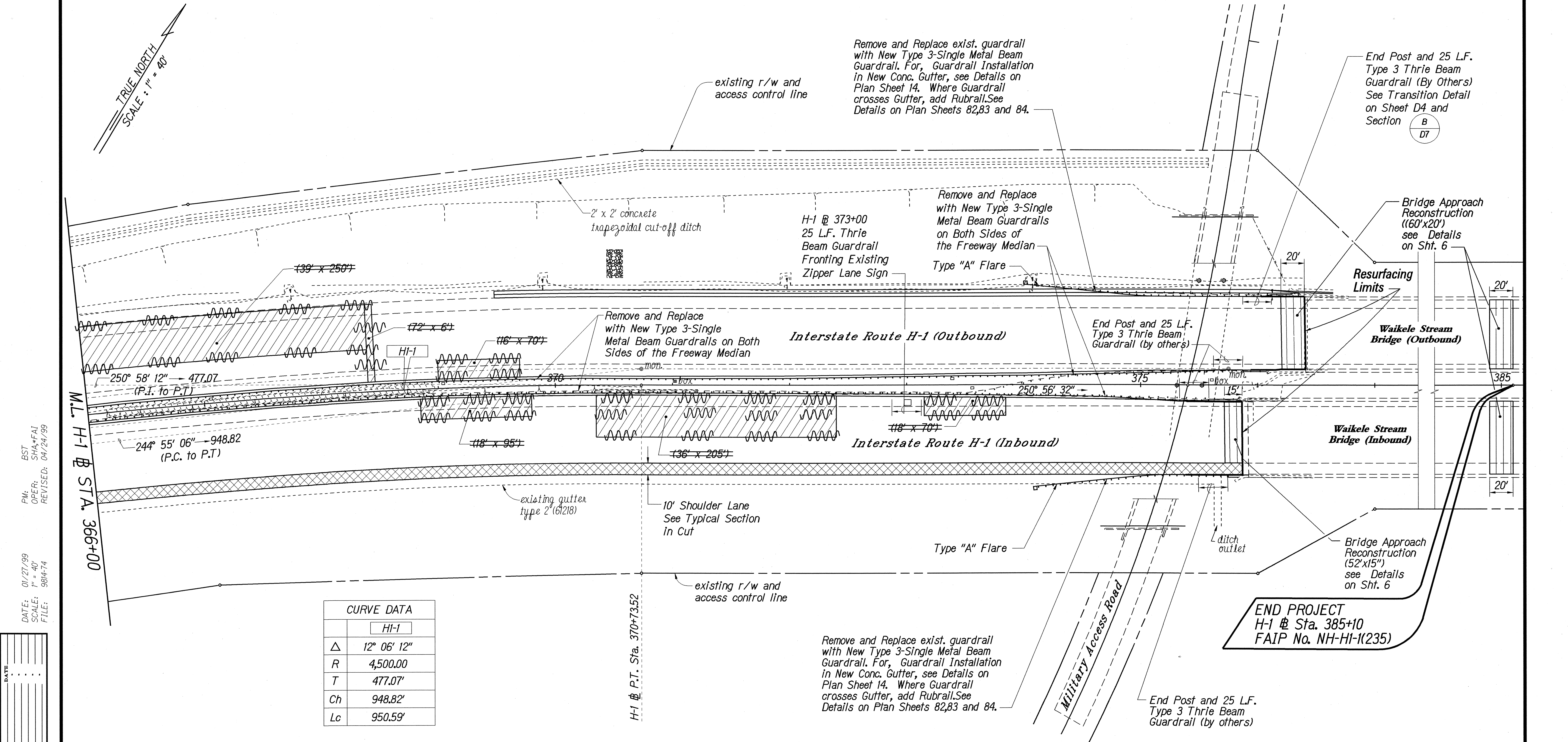
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

INTERSTATE ROUTE H-1 RESURFACING
Kunia IC to Waikale Stream Bridge
F.A.I. Project No. NH-HI-1(235)

Scale: As Shown Date: Apr. 30, 1999

SHEET No. **R4** OF 6 SHEETS



CURVE DATA	
	HI-1
Δ	12° 06' 12"
R	4,500.00
T	477.07'
Ch	948.82'
Lc	950.59'

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
FILE	

DATE: 01/27/99
 SCALE: 1" = 40'
 FILE: 981474

BST
 SHA*FAI
 OPER: 04/24/99
 REVISED:

Note:
 See Sheet 8S-1 for
 Revised Pavement
 Reconstruction
 Schedule.

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

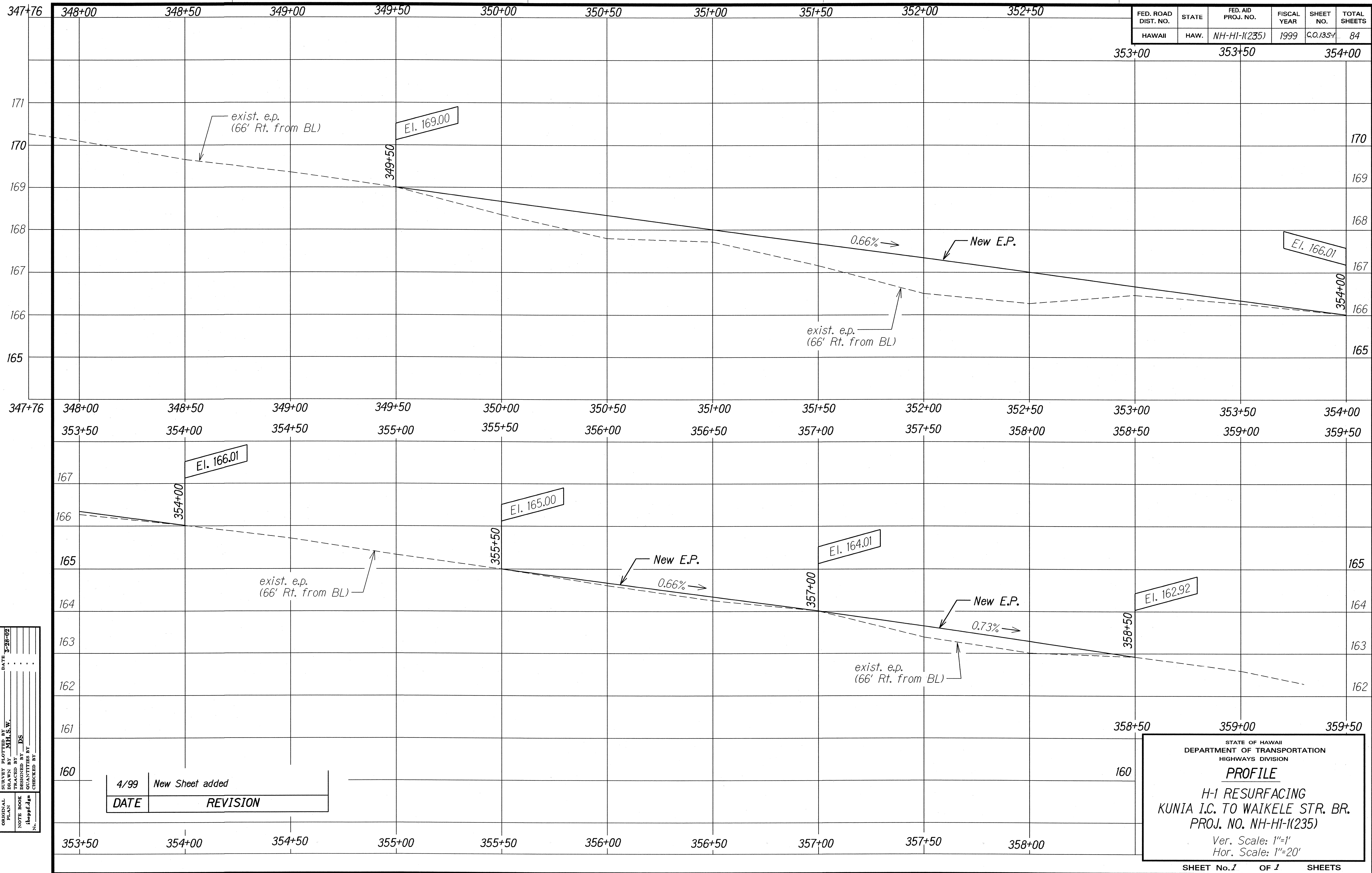
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN

INTERSTATE ROUTE H-1 RESURFACING
Kunia IC to Waialeke Stream Bridge
F.A.I. Project No. NH-HI-1(235)

Scale: As Shown
Date: Apr. 30, 1999

SHEET No. R5 OF 6 SHEETS

"AS-BUILT"



ORIGINAL PLAN	DATE	3-28-02
NOTED BY	DESIGNED BY	ibp/f.d.g.
QUANTITIES BY	CHECKED BY	

4/99	New Sheet added
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PROFILE

H-1 RESURFACING
KUNIA I.C. TO WAIKELE STR. BR.
PROJ. NO. NH-HI-1(235)

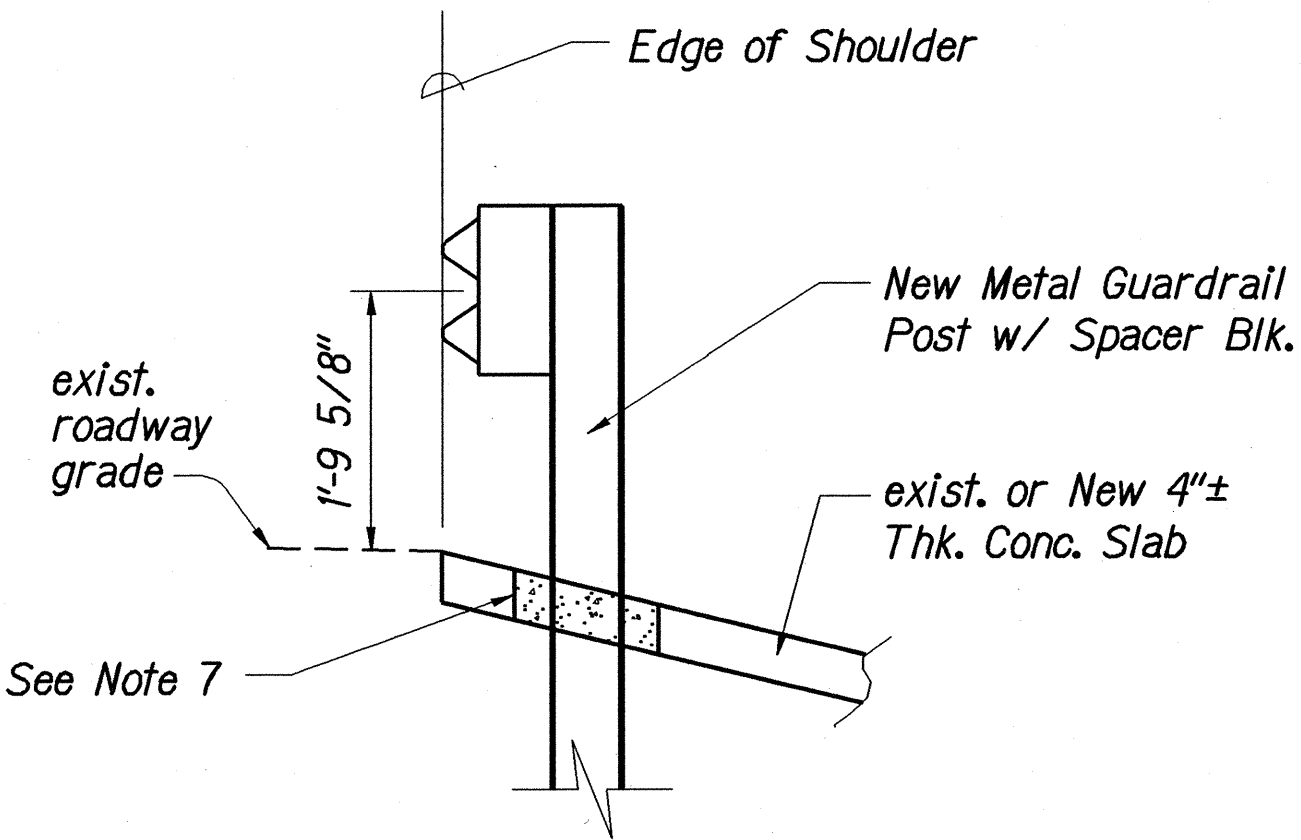
Ver. Scale: 1"=1'
Hor. Scale: 1"=20'

SHEET No. 1 OF 1 SHEETS

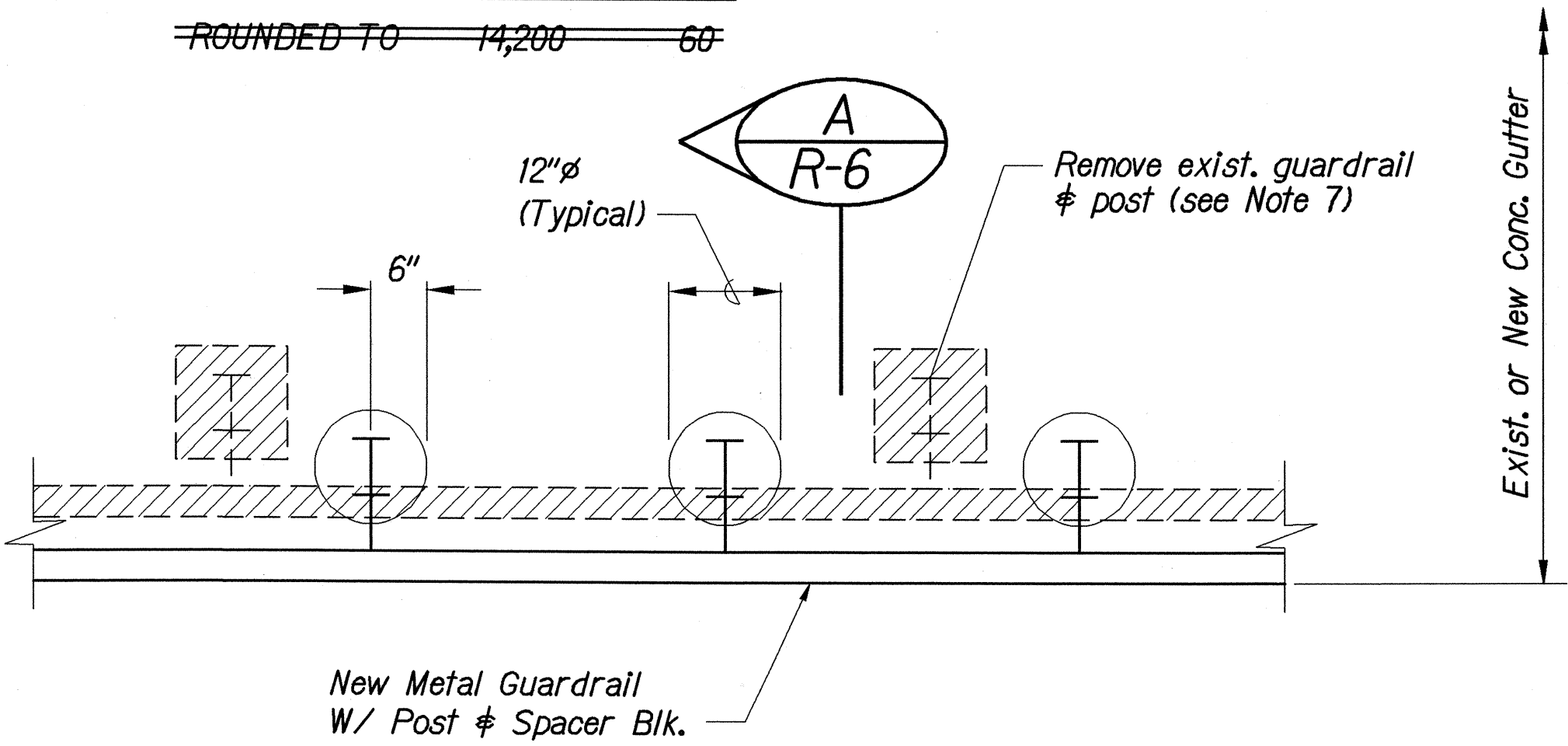
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(235)	1999	14	84

GUARDRAIL SUMMARY				
ITEM			606.3110	606.3112
UNIT USED			L.F.	L.F.
BASELINE STATION LOCATION			Guardrail, Type 3 Single With Steel Post	Guardrail, Type 3 Thrie Beam with Steel Post
DESCRIPTION	FROM	TO		
H-1 I.B. Median	Sta. 326+57	Sta. 359+24	3,267	-
H-1 I.B. Shoulder	Sta. 326+60	Sta. 334+92	832	-
H-1 I.B. Shoulder	Sta. 340+81	Sta. 359+23	1842	-
H-1 I.B. Median	Sta. 361+59	Sta. 375+34	1375	-
H-1 I.B. Shoulder	Sta. 361+41	Sta. 363+07	166	-
H-1 I.B. Shoulder	Sta. 374+08	Sta. 375+49	142	-
H-1 O.B. Median	Sta. 326+53	Sta. 359+34	3,293	37.5
H-1 O.B. Shoulder	Sta. 346+26	Sta. 359+63	1,337	-
H-1 O.B. Median	Sta. 361+67	Sta. 375+62	1,370	25
H-1 O.B. Shoulder	Sta. 361+71	Sta. 363+22	154	-
H-1 O.B. Shoulder	Sta. 374+00	Sta. 375+87	205	-
Ramp "K.O." Shoulder (L.T.)	Sta. 19+45	Sta. 21+40	215	-
Ramp "E.H." Shoulder (L.T.)	Sta. 14+15	Sta. 14+74	59	-
TOTAL			14,257	62.5

ROUNDED TO 14,200 60



SECTION A R-6
Scale: 3/4" = 1'-0"



PARTIAL PLAN
Scale: 3/4" = 1'-0"

GUARDRAIL POST INSTALLATION DETAIL AT EXISTING OR NEW CONCRETE GUTTER
Scale: As Shown

NOTE:

1. The Contractor shall verify all existing conditions prior to commencing with the work.
2. Any damage to the existing structure due to the Contractor's operation or negligence shall be repaired by the Contractor at his expense to the satisfaction of the Engineer, with no additional cost to the State.
3. See Sht. B-5 for guardrail for Type 3-Thrie Beam details and Shts. B-1, B-2, B-3, and B-4 for W beam metal guardrail details. Lap terminal connector and rail element in the direction of traffic to prevent snagging.
4. 3/4" anchor bolts shall be ASTM A 307 or A 449 hot dip galvanized and shall have ultimate tensile capacity of 3,000 lbs. and ultimate shear capacity of 7,000 lbs.
5. All welding shall be in accordance with the current edition of Reinforcing Steel Welding Code AWS D1.4.
6. All structural steel shall be ASTM A 36 hot dip galvanized after fabrication.
7. Where guardrail post occurs on existing concrete gutter, provide concentric opening and refinish with 4" AC, Mix No. ~~XX~~ to match existing grade after installation of new post. Fill treatment of existing post openings similar to above. This work to be incidental to Item No. 606. 3110.
8. When a guardrail system crosses a swale/gutter, a rubrail shall be installed in accordance with the Guardrail Details B-9A, B-9B, and B-9C.
9. If the guardrail post occurs near the invert of the swale/gutter, said post shall be omitted and rail shall be double nested.

LEGEND FOR
AS-BUILT POSTINGS

	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GUARDRAIL DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Kunia IC to Waialeale Stream Bridge
F.A.I. Project No. NH-HI-1(235)

Scale: As Shown Date: Apr. 30, 1999
SHEET No. R6 OF 6 SHEETS