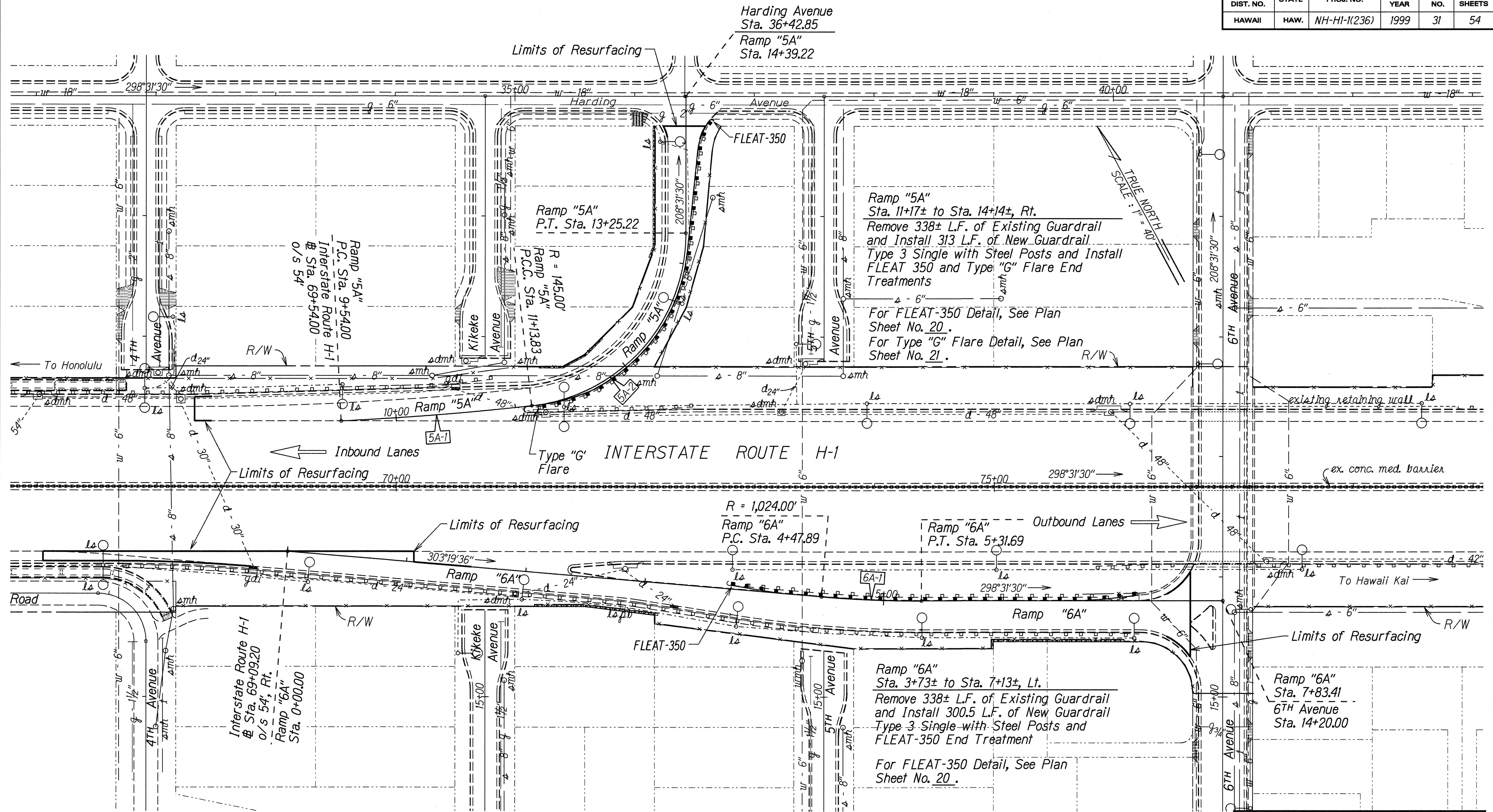


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(236)	1999	31	54



CURVE DATA				
	5A-1	5A-2	6A-1	
Δ	3°39'47"	83°31'47"	4°48'06"	
R	2,500.00'	145.00'	1,000.00'	
T	79.94'	129.49'	41.93'	
C	159.83'	193.16'	83.78'	
Lc	159.83'	211.39'	83.80'	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

*Interstate Route H-1 Resurfacing
On Ramps at 5th and 11th Avenues and
Off Ramps at 6th, Koko Head and Waialae Avenues*

Federal Aid Project No. NH-HI-1(236)

Scale: 1"=40' Date: Feb, 1999

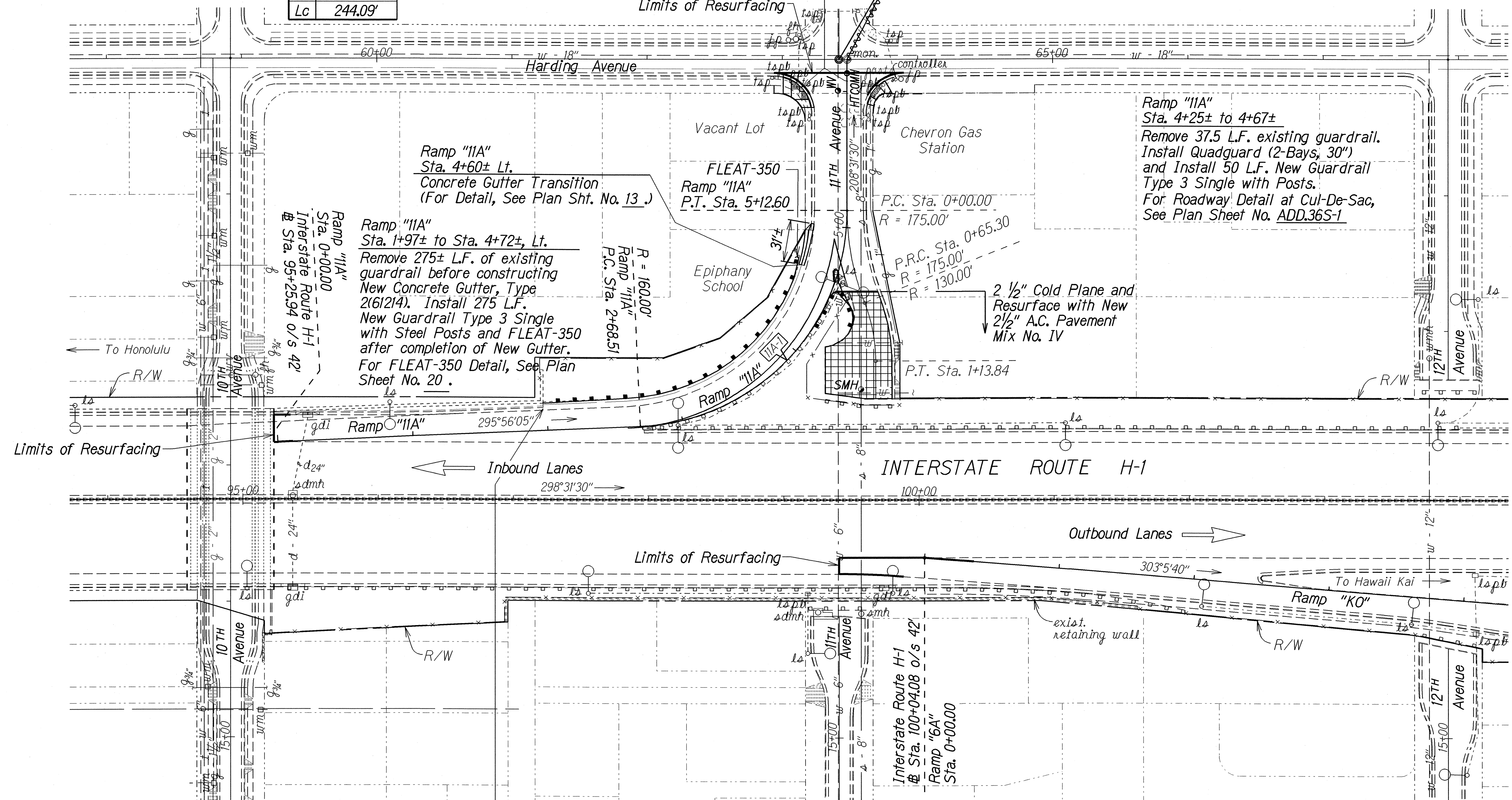
SHEET No. 1 OF 5 SHEETS

CURVE DATA	
	
Δ	$87^{\circ}24'35''$
R	$160.00'$
T	$152.93'$
C	$221.10'$
Lc	$244.09'$

11TH Avenue
Sta. 6+08±, o/s 41.2'± Lt. and
Sta. 6+04±, o/s 23.2'± Rt.

Install Modified Curb Ramp
Type "E" & "B" 16 and 17S-1
For Details, See Plan Sheet No. ~~16~~ 16

Harding Avenue
Sta. 63+41.85
Ramp "11A"
Sta. 6+23.63



Ramp "11A"
Sta. 2+03±, Lt.

Gutter Type 2(6/14) Transition.
For Details, See Plan Sheet No. 13.

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

6-10-99	<i>Revised Limits, Guardrail and Note "AC, Superpave" to AC, Pavement Mix No. IV" at Cul-De-Sac. Added Quadguard End Treatment.</i>
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Interstate Route H-1 Resurfacing
On Ramps at 5th and 11th Avenues and
Off Ramps at 6th, Koko Head and Wai'alae Avenues
Federal Aid Project No. NH-HI-1(236)

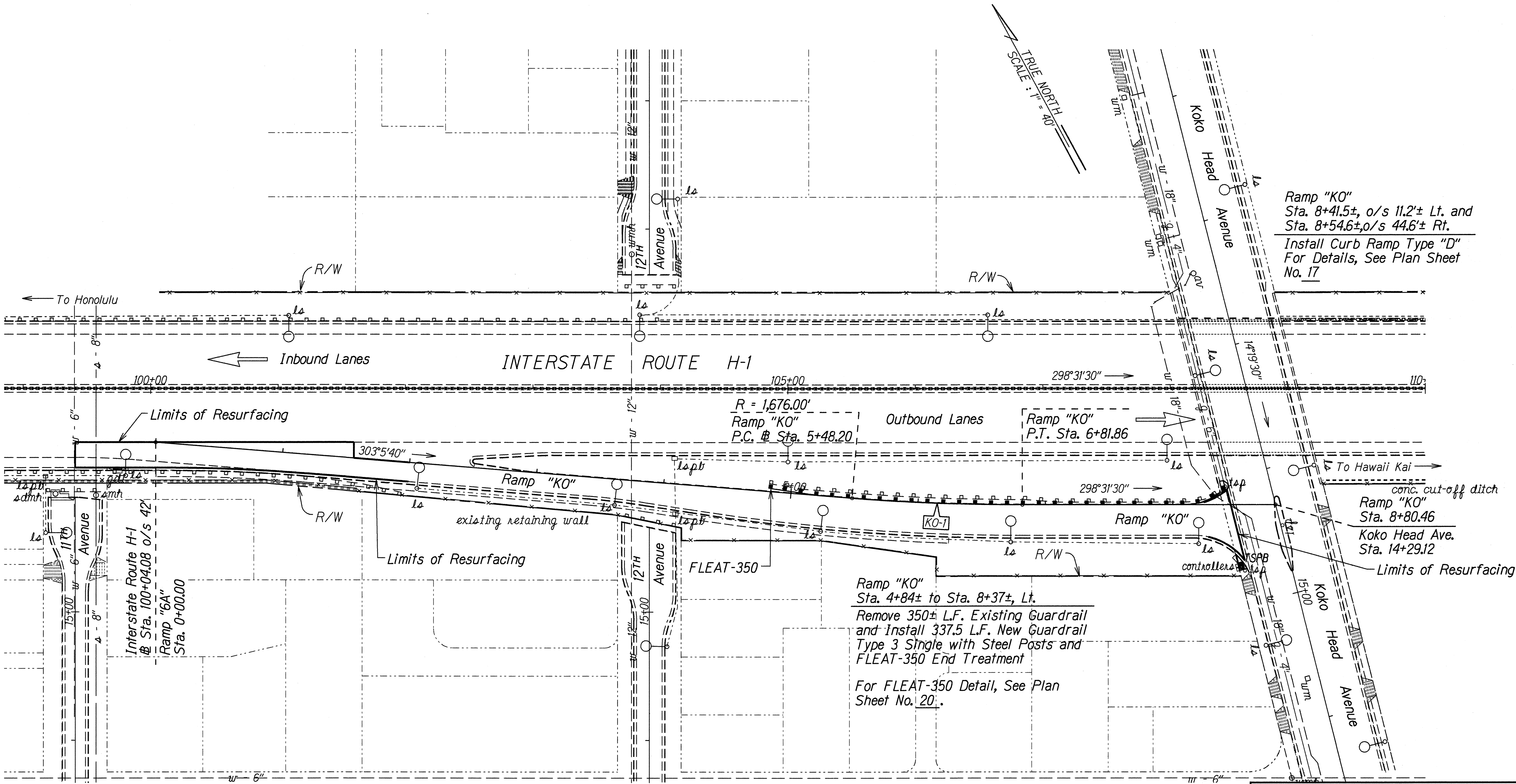
Scale: 1"=40' Date: Feb., 1998

SHEET No. **2** OF **5** SHEETS

"AS-BUILT"

ADD.32R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(236)	1999	ADD.33	54



CURVE DATA	
Δ	4°34'10"
R	1,676.00'
T	66.87'
C	133.62'
Lc	133.66'

ORIGINAL PLAN	DATE
DESIGNED BY	12/11/98
DRAWN BY	
CHECKED BY	
IN CHARGE	

6-10-99	Added Curb Ramps at Ramp "KO".
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Interstate Route H-1 Resurfacing

On Ramps at 5th and 11th Avenues and
Off Ramps at 6th Koko Head and Waiālae Avenues

Federal Aid Project No. NH-HI-1(236)

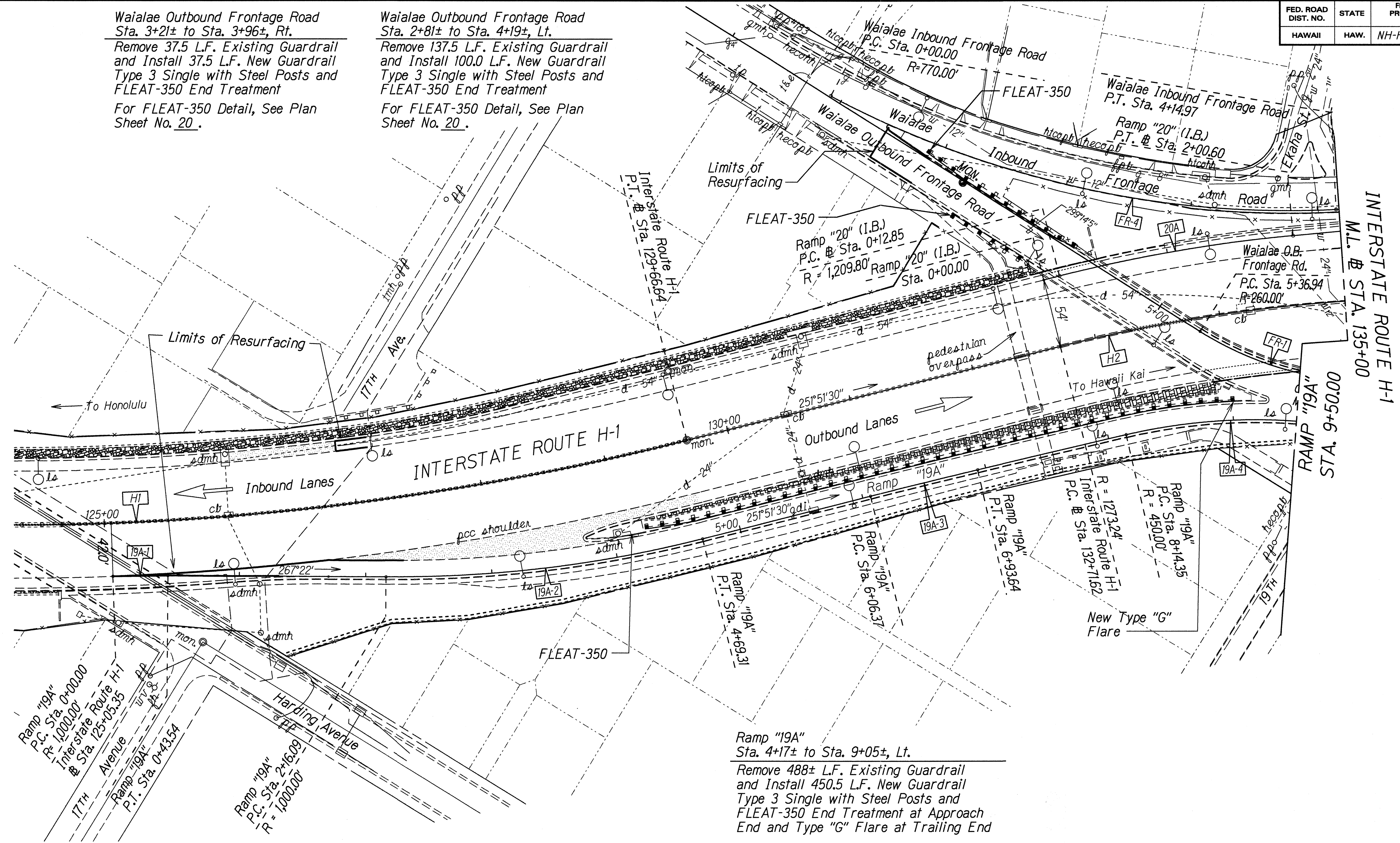
Scale: 1"=40'
Date: Feb, 1998

SHEET No. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(236)	1999	34	54

Waialae Outbound Frontage Road
Sta. 3+21± to Sta. 3+96±, Rt.
Remove 37.5 L.F. Existing Guardrail
and Install 37.5 L.F. New Guardrail
Type 3 Single with Steel Posts and
FLEAT-350 End Treatment
For FLEAT-350 Detail, See Plan
Sheet No. 20.

Waialae Outbound Frontage Road
Sta. 2+81± to Sta. 4+19±, Lt.
Remove 137.5 L.F. Existing Guardrail
and Install 100.0 L.F. New Guardrail
Type 3 Single with Steel Posts and
FLEAT-350 End Treatment
For FLEAT-350 Detail, See Plan
Sheet No. 20.



TRUE NORTH
SCALE: 1" = 40'

INTERSTATE ROUTE H-1
M.L. & STA. 135+00

RAMP "19A"
STA. 9+50.00

Ramp "19A"
Sta. 4+17± to Sta. 9+05±, Lt.
Remove 488± L.F. Existing Guardrail
and Install 450.5 L.F. New Guardrail
Type 3 Single with Steel Posts and
FLEAT-350 End Treatment at Approach
End and Type "G" Flare at Trailing End
For FLEAT-350 Detail, See Plan
Sheet No. 20.
For Type "G" Flare Detail, See Plan
Sheet No. 21.

CURVE DATA

	H1	H2	20A	19A-1	19A-2	19A-3	19A-4	FR-1	FR-4
Δ	45°40'30"	27°32'40"	8°53'31"	2°29'41"	14°30'30"	1°00'00"	21°14'48"	27°07'46"	30°52'41"
R	2,200.00'	1,273.24'	1,209.80'	1,000.00'	1,000.00'	1,000.00'	450.00'	260.00'	770.00'
T	926.49'	312.08'	94.06'	21.77'	127.29'	43.64'	84.40'	62.73'	212.66'
C	1,707.72'	606.22'	187.56'	43.54'	252.54'	87.27'	165.92'	121.96'	409.97'
Lc	1753.79'	612.10'	187.75'	43.54'	253.22'	87.27'	166.87'	123.56'	414.97'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Interstate Route H-1 Resurfacing
On Ramps at 5th and 11th Avenues and
Off Ramps at 6th, Koko Head and Waialae Avenues
Federal Aid Project No. NH-HI-1(236)

Scale: 1"=40' Date: Feb., 1999

SHEET No. 4 OF 5 SHEETS

Waialae Outbound Frontage Road, Sta. 6+45± to Ramp "20" (Outbound), Sta. 10+45±, Lt.

Remove 400± L.F. Existing Guardrail and Install 457 L.F. New Guardrail Type 3 Single with Steel Posts and Type "G" Flare

Ramp "20" (Inbound)
Sta. 6+70± to Sta. 8+00±, Rt.

Remove 75± L.F. Existing Guardrail and Install 75 L.F. New Guardrail Type 3 Single with Steel Posts and FLEAT-350 End Treatment and Type "G" Flare

For FLEAT-350 Detail, See Plan Sheet No. 20.

For Type "G" Flare Detail, See Plan Sheet No. 21.

Ramp "20" (Inbound)
Sta. 4+55± to Sta. 6+30±, Lt.

Install 175 L.F. New Guardrail Type 3 single with Steel Posts

Waialae Inbound Frontage Road
Sta. 6+37± to Sta. 8+12±, Rt.

Install 175 L.F. New Guardrail Type 3 single with Steel Posts

Ramp "20" (Outbound)
Sta. 9+66± to Sta. 11+78±, Rt.

Remove 125± L.F. Existing Guardrail and Install 212.5 L.F. New Guardrail Type 3 Single with Steel Posts

Ramp "20" (Inbound)
Sta. 6+30± to Sta. 6+63±, Lt.

Install Quadguard System (4-Bays, 30")
For Detail, See Plan Sheet No. 22.

Waialae Outbound Frontage Road
Sta. 12+38± to Sta. 16+56±, Lt.

Remove Existing Concrete Curbing and Install New Type 2D Concrete Curb (o/s 28.0', Lt.). For Details, See Plan Sheet No. 35.

Waialae Outbound Frontage Road
Sta. 12+70± to Sta. 15+15±, Lt.

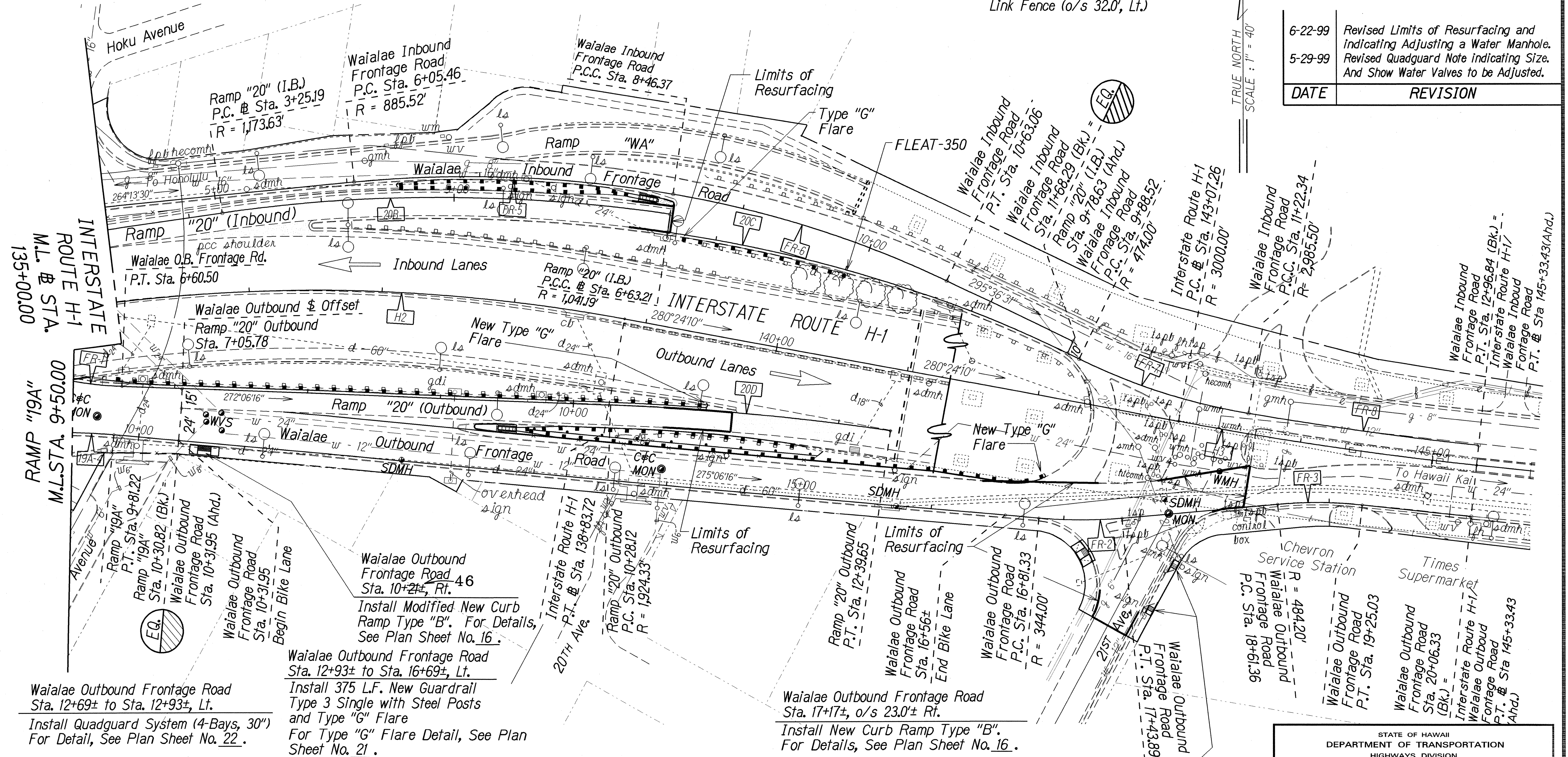
Remove 245± L.F. Existing Chain Link Fence and Install New 210 L.F. Chain Link Fence (o/s 32.0', Lt.)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(236)	1999	ADD.35	54

LEGEND FOR AS-BUILT POSTINGS

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

DATE	REVISION
6-22-99	Revised Limits of Resurfacing and Indicating Adjusting a Water Manhole.
5-29-99	Revised Quadguard Note Indicating Size. And Show Water Valves to be Adjusted.



CURVE DATA											
	H2	H3	20B	20C	20D	FR1	FR2	FR3	FR5	FR6	FR7
Δ	27°32'40"	4°19'10"	16°30'07"	17°21'26"	6°17'52"	27°07'46"	10°25'16"	1°24'00"	14°01'37"	17°19'43"	16°10'33"
R	1,273.24'	3,000.00'	1,173.63'	1,041.19'	1,924.33'	260.00'	344.00'	484.20'	885.52'	786.00'	474.00'
T	312.08'	113.14'	170.19'	158.93'	105.88'	62.73'	31.37'	31.94'	121.21'	109.03'	67.36'
C	606.22'	226.12'	336.85'	314.22'	211.43'	121.96'	62.48'	63.57'	240.18'	216.00'	133.38'
Lc	612.10'	226.17'	338.02'	315.42'	211.54'	123.56'	62.56'	63.67'	240.91'	216.69'	133.82'

Waialae Outbound Frontage Road
Sta. 17+60±, o/s 68.6± Rt. and
Sta. 17+79±, o/s 41.0± Rt.

Install New Modified Curb Ramp
Type "D". For Details, See Plan
Sheet No. 17.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

Interstate Route H-1 Resurfacing
On Ramps at 5th and 11th Avenues and
Off Ramps at 6th, Koko Head and Waialae Avenues
Federal Aid Project No. NH-HI-1(236)

Scale: 1"=40' Date: Feb., 1999

SHEET No. 5 OF 5 SHEETS

"AS-BUILT"

ADD.35