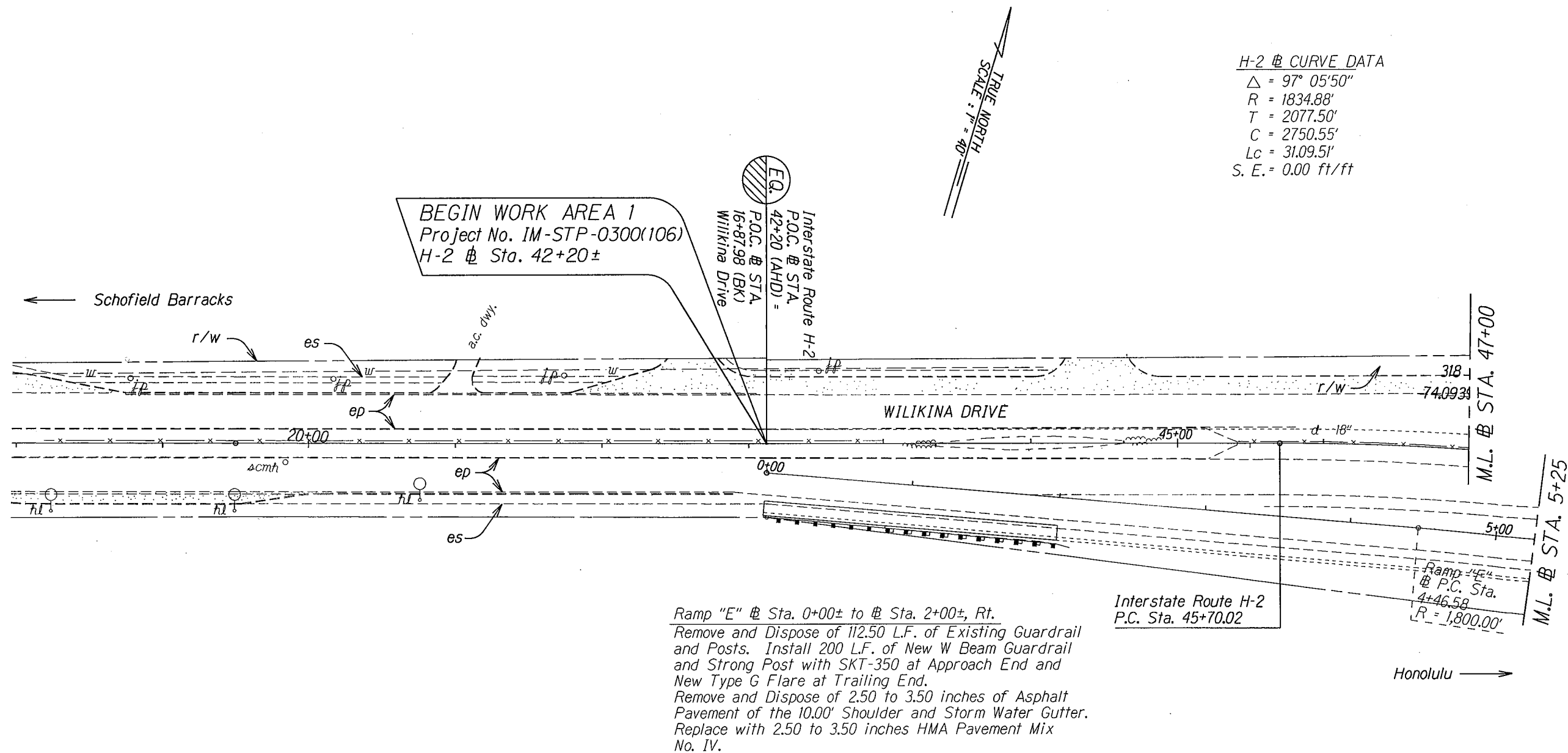


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET NO. 1 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 @ Sta. 49+00± to H-2 @ Sta. 58+00±, Lt.

Remove and Dispose of 2.50 to 3.50 inches of Asphalt Pavement, 6.00 inch Assgrade Base Course of the 10.00 foot Shoulder. Replace with 6.00 inch Aggregate Base Course and 2.50 to 3.50 inches HMA Pavement Mix No. IV.

H-2 @ Sta. 49+32± to H-2 @ Sta. 49+82±, Lt.

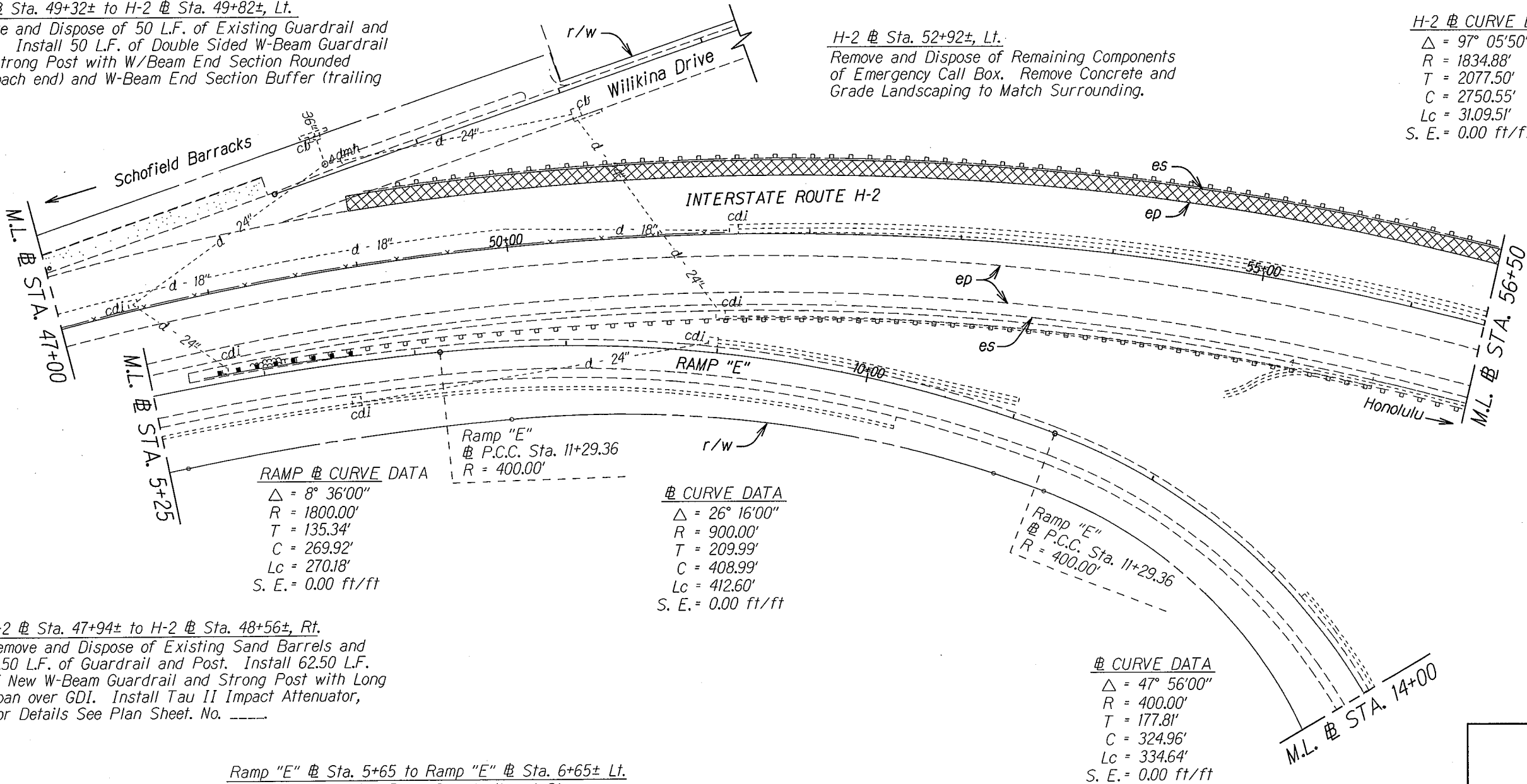
Remove and Dispose of 50 L.F. of Existing Guardrail and Posts. Install 50 L.F. of Double Sided W-Beam Guardrail and Strong Post with W/Beam End Section Rounded (approach end) and W-Beam End Section Buffer (trailing end).

H-2 @ Sta. 52+92±, Lt.

Remove and Dispose of Remaining Components of Emergency Call Box. Remove Concrete and Grade Landscaping to Match Surrounding.

H-2 @ CURVE DATA

Δ = 97° 05'50"
R = 1834.88'
T = 2077.50'
C = 2750.55'
Lc = 31.09.51'
S. E. = 0.00 ft/ft



RAMP @ CURVE DATA

Δ = 8° 36'00"
R = 1800.00'
T = 135.34'
C = 269.92'
Lc = 270.18'
S. E. = 0.00 ft/ft

@ CURVE DATA

Δ = 26° 16'00"
R = 900.00'
T = 209.99'
C = 408.99'
Lc = 412.60'
S. E. = 0.00 ft/ft

@ CURVE DATA

Δ = 47° 56'00"
R = 400.00'
T = 177.81'
C = 324.96'
Lc = 334.64'
S. E. = 0.00 ft/ft

H-2 @ Sta. 47+94± to H-2 @ Sta. 48+56±, Rt.

Remove and Dispose of Existing Sand Barrels and 12.50 L.F. of Guardrail and Post. Install 62.50 L.F. of New W-Beam Guardrail and Strong Post with Long Span over GDI. Install Tau II Impact Attenuator, For Details See Plan Sheet No. ____.

Ramp "E" @ Sta. 5+65 to Ramp "E" @ Sta. 6+65± Lt.

Install 100 L.F. of W-Beam Guardrail and Strong Post Connect to Impact Attenuator with Long Span Over GDI and Type "G" Flare (Trailing End). For Details, See Plan Sheet No. ____.

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PLANNED BY	
SURVEY PLOTTED BY	
ORIGINAL PLAN	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40' Date: Dec., 2014

SHEET No. 2 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 @ Sta. 60+75± to H-2 @ Sta. 67+50±, Lt.
 Remove and Dispose of 5630 L.F. of Existing Guardrail and Posts. Install 700 L.F. of New W-Beam Guardrail and Strong Post with TAU II Impact Attenuator. See Plan Sheet No. ____ for End Post and Thrie Beam Detail for Site "N".

RAMP C @ CURVE DATA
 $\Delta = 23^\circ 20'00''$
 $R = 985.00'$
 $T = 203.39'$
 $C = 398.37'$
 $Lc = 401.14'$
 $S. E. = 0.00 \text{ ft/ft}$

H-2 @ Sta. 61+00± to H-2 @ Sta. 67+80±, Lt.
 Remove and Dispose of 2.50 to 3.50 inches of Asphalt Pavement of the 10.00 foot Shoulder. Replace with 2.50 to 3.50 inches HMA Pavement Mix No. IV.

H-2 @ Sta. 57+27±, Rt.
 Remove and Dispose of Remaining Emergency Call Box Components and Concrete Pad and Ramp. Grade Landscaping to Match Surrounding. Reestablish Storm Water Gutter. For Details, See Sheet No. ____

H-2 @ Sta. 57+02± to H-2 @ Sta. 57+89.5±, Rt.
 Remove and Dispose of 75 L.F. of Existing Guardrail and Posts. Install 87.50 L.F. of W-Beam Guardrail and Strong Post. Connect to Loop "I" Guardrail with W-Beam End Section Buffer.

Loop "I" @ Sta. 7+10.5± to Loop "I" @ Sta. 8+98±, Rt.
 Remove and Dispose of 187.50 L.F. of Existing Guardrail and Posts. Install 87.50 L.F. of W-Beam Guardrail with SKT-350 End Treatment at Loop "I". See Plan Sheet No. ____ for End Post Details and Thrie Beam for Site "NN".

H-2 @ Sta. 64+44± to H-2 @ Sta. 72+34±, Rt.
 Remove and Dispose of 2.50 to 3.50 inches of Asphalt Pavement of the 10.00 foot Shoulder. Replace with 2.50 to 3.50 inches HMA Pavement Mix No. IV.

H-2 @ CURVE DATA
 $\Delta = 97^\circ 05'50''$
 $R = 1834.88'$
 $T = 2077.50'$
 $C = 2750.55'$
 $Lc = 3109.51'$
 $S. E. = 0.00 \text{ ft/ft}$

Loop "I" @ Sta. 7+28± to Loop "I" @ Sta. 7+90.50±, Lt.
 Remove and Dispose of 50 L.F. of Existing Guardrail and Posts. Install 62.5 L.F. of W Beam and Strong Posts and Connect to W-Beam End Section Buffer on H-2 Side.

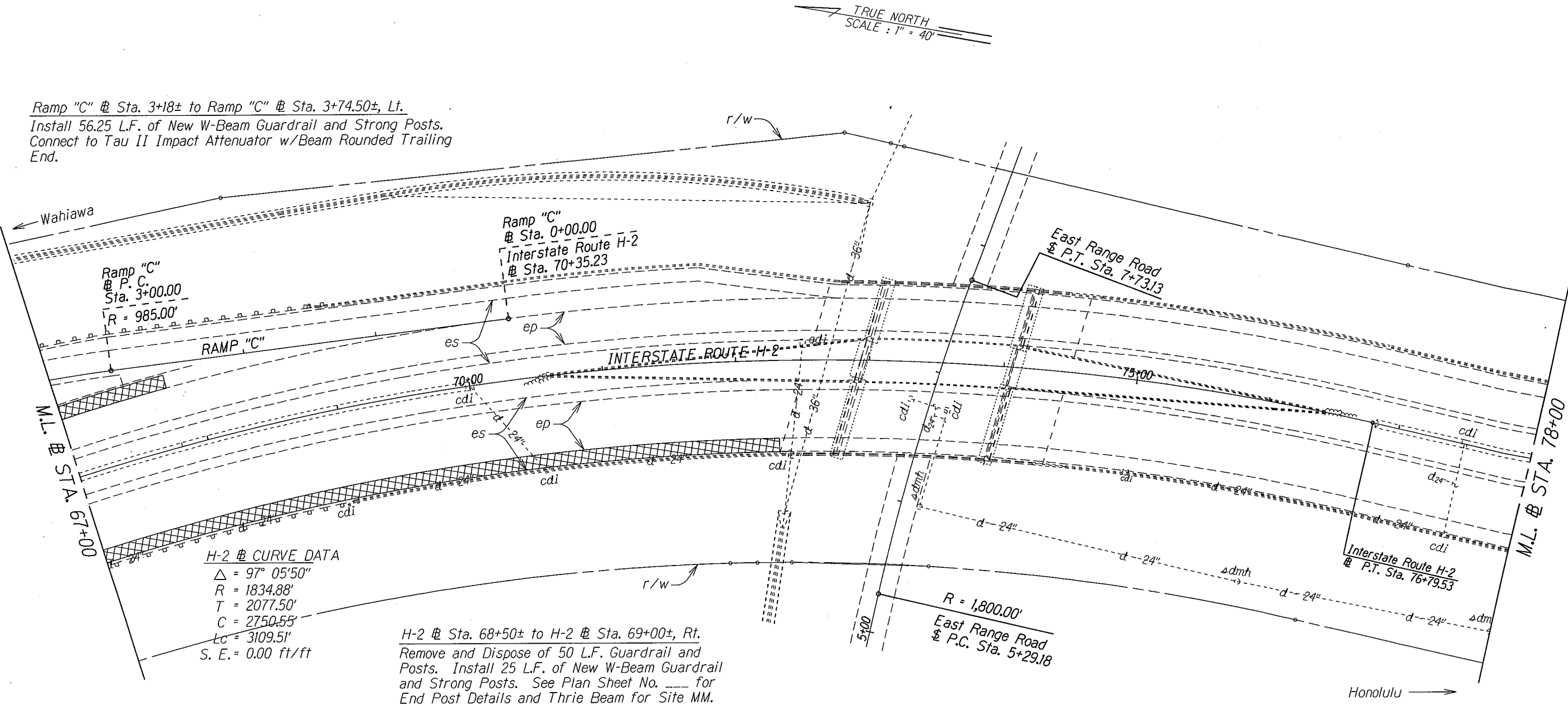
RAMP E @ CURVE DATA
 $\Delta = 80^\circ 33'54''$
 $R = 250.00'$
 $T = 211.88'$
 $C = 323.28'$
 $Lc = 351.53'$
 $S. E. = 0.00 \text{ ft/ft}$

DESIGNED BY	DATE
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DATE	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLANS
 INTERSTATE ROUTE H-2 and
 MOANALUA FREEWAY
 Guardrail and Shoulder Improvements
 Federal-Aid Project No. IM-STP-0300(106)
 Scale: 1" = 40' Date: Dec., 2014
 SHEET No. 3 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

Ramp "C" @ Sta. 3+18± to Ramp "C" @ Sta. 3+74.50±, Lt.
Install 56.25 L.F. of New W-Beam Guardrail and Strong Posts.
Connect to Tau II Impact Attenuator w/Beam Rounded Trailing End.



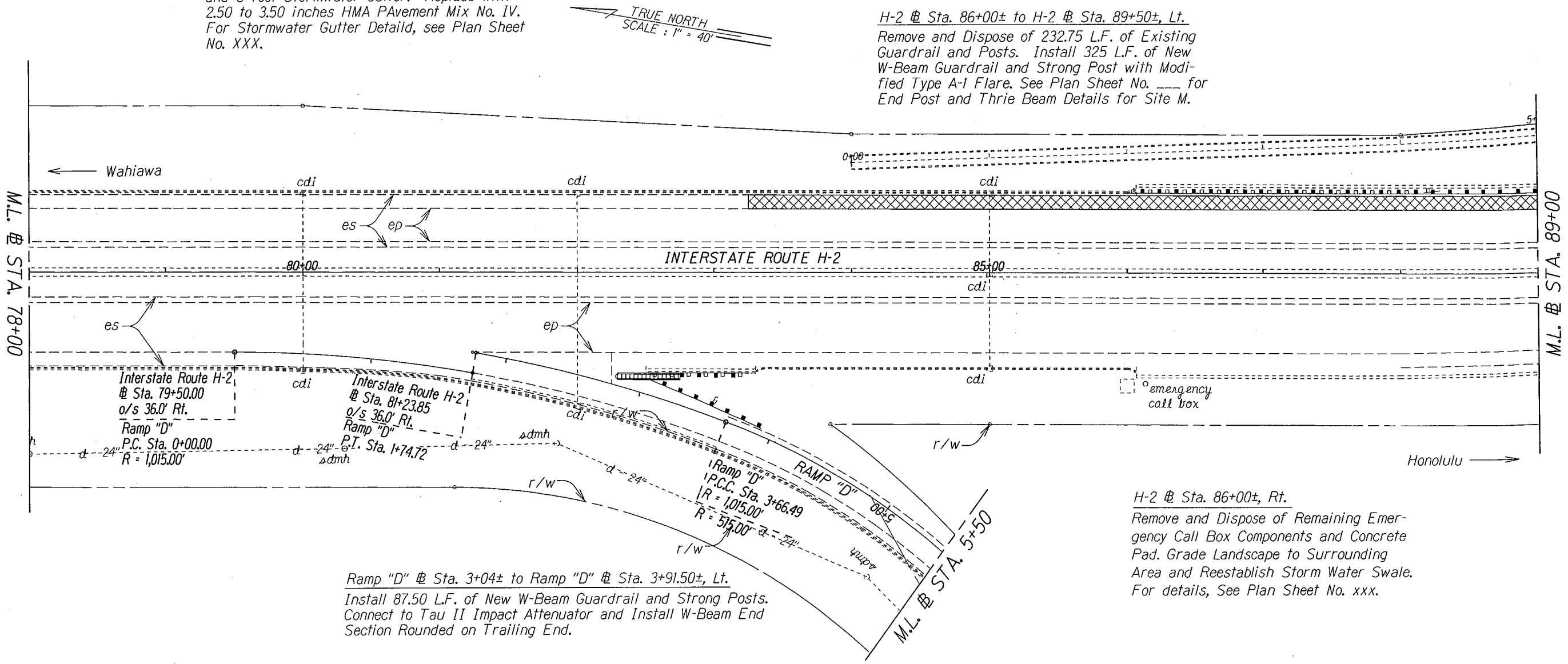
SURVEY PLOTTED BY	DATE
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QUANTITIES BY	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40' Date: Dec., 2014

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 @ Sta. 83+25± to H-2 @ Sta. 96+42±, Lt.
 Remove and Dispose of 2.50 to 3.50 inches of Asphalt Pavement for the 10.00 foot Shoulder and 8 foot Stormwater Gutter. Replace with 2.50 to 3.50 inches HMA Pavement Mix No. IV. For Stormwater Gutter Detaild, see Plan Sheet No. XXX.

H-2 @ Sta. 86+00± to H-2 @ Sta. 89+50±, Lt.
 Remove and Dispose of 232.75 L.F. of Existing Guardrail and Posts. Install 325 L.F. of New W-Beam Guardrail and Strong Post with Modified Type A-1 Flare. See Plan Sheet No. ___ for End Post and Thrie Beam Details for Site M.



Ramp "D" @ Sta. 3+04± to Ramp "D" @ Sta. 3+91.50±, Lt.
 Install 87.50 L.F. of New W-Beam Guardrail and Strong Posts. Connect to Tau II Impact Attenuator and Install W-Beam End Section Rounded on Trailing End.

H-2 @ Sta. 86+00±, Rt.
 Remove and Dispose of Remaining Emergency Call Box Components and Concrete Pad. Grade Landscape to Surrounding Area and Reestablish Storm Water Swale. For details, See Plan Sheet No. xxx.

H-2 @ Sta. 82+50± to H-2 @ Sta. 83+25±, Rt.
 Remove and Dispose of 82 L.F. of Existing Guardrail and Posts, and Remove Existing Fleet-350, and Reuse at Another Location. Install 50 L.F. of New W-Beam and Strong Posts with Tau II Impact Attenuator and Connect to New Thrie Beam. For details, See Sheet No. ___ for End Post Thrie Beam details for site LL.

DATE	_____
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ORIGINAL PLAN	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

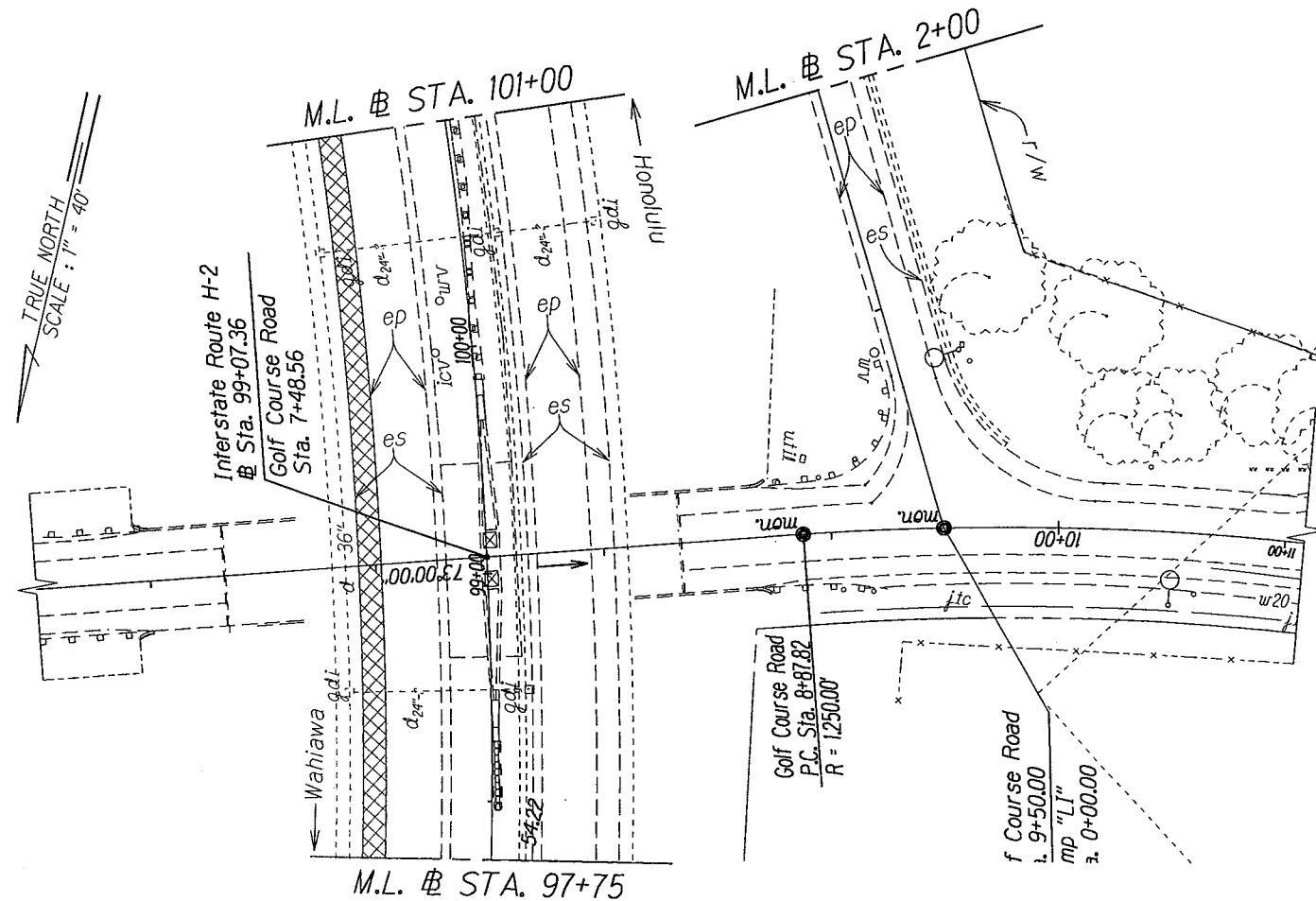
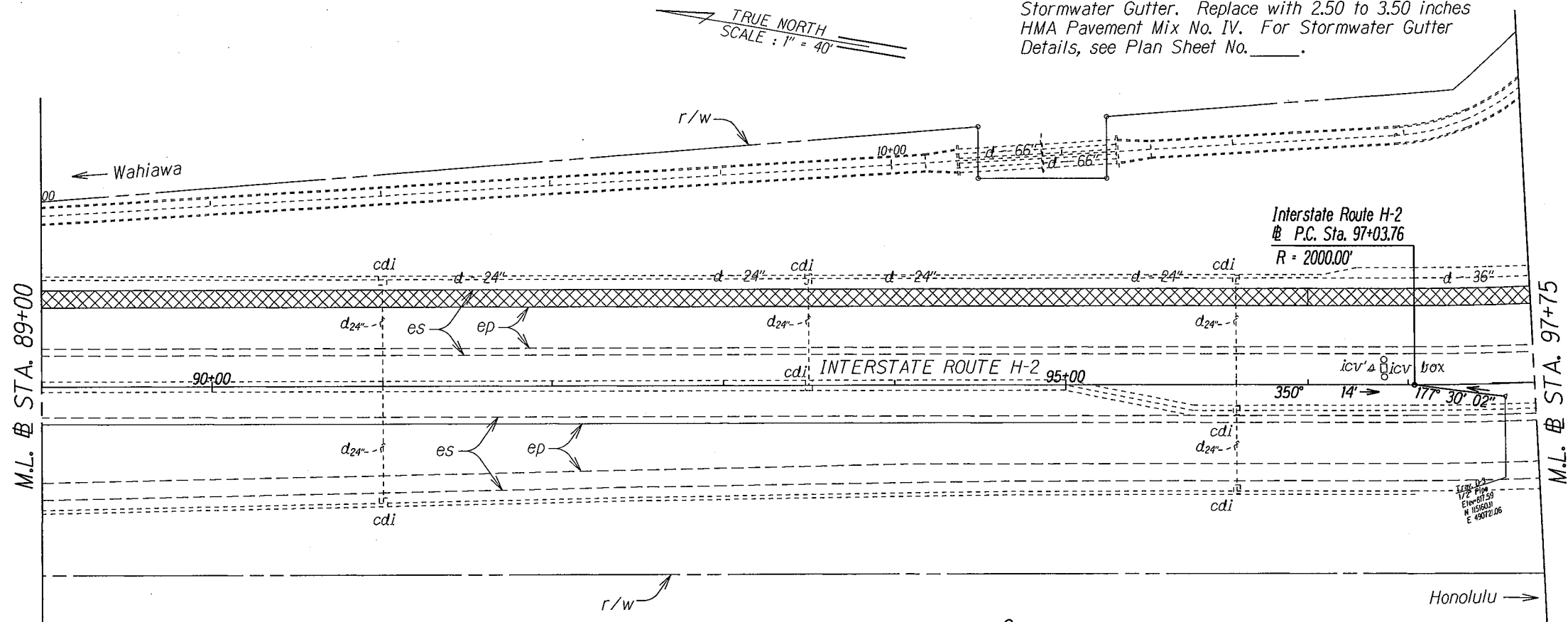
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 5 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 @ Sta. 96+42± to H-2 @ Sta. 122+42±, Lt.
 Remove and Dispose of 2.50 to 3.50 inches of Asphalt Pavement for the 10.00 Foot Shoulder and 12.00 Foot Stormwater Gutter. Replace with 2.50 to 3.50 inches HMA Pavement Mix No. IV. For Stormwater Gutter Details, see Plan Sheet No. ____.



ORIGINAL PLAN	DATE
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

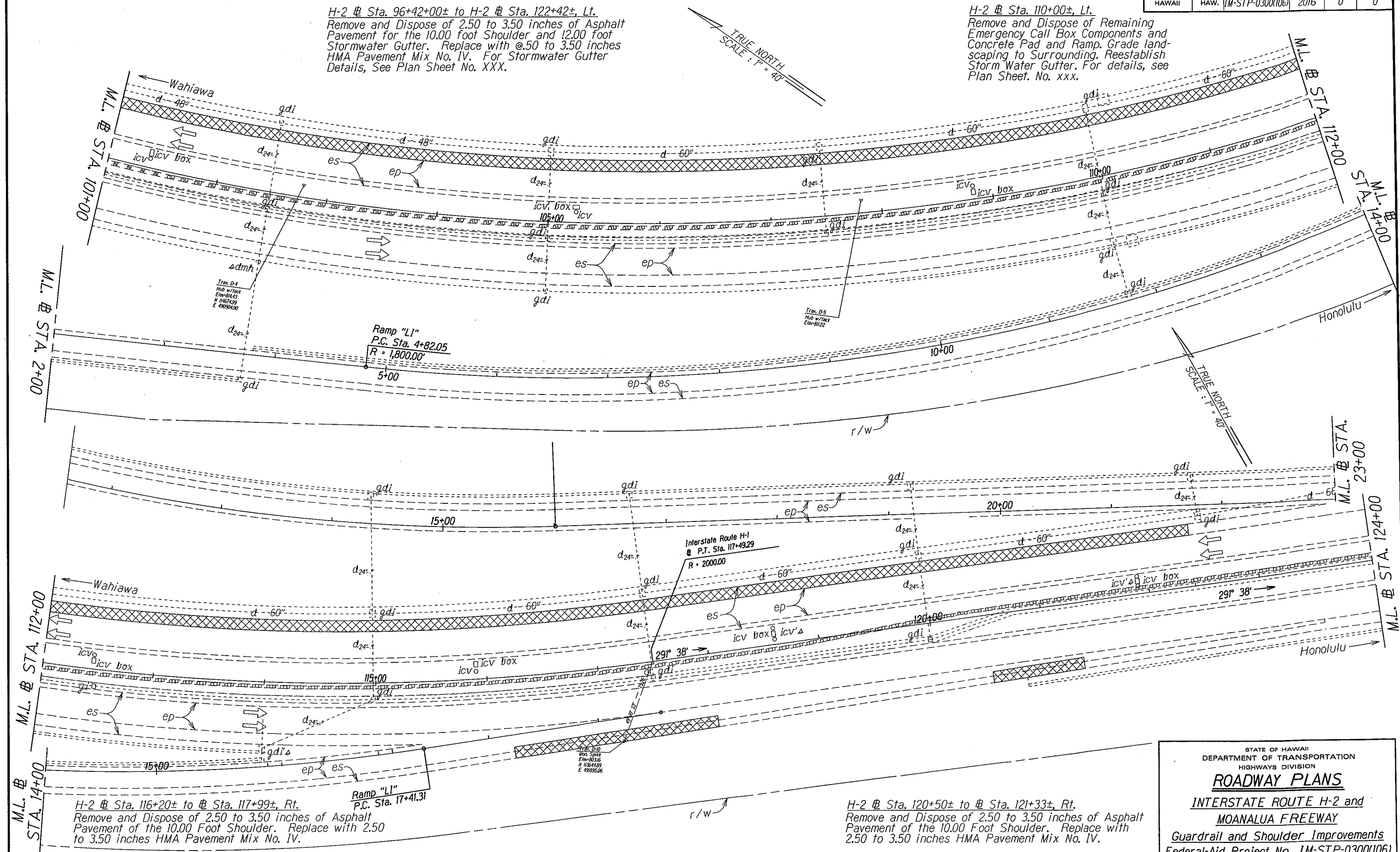
ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40' Date: Dec., 2014

SHEET No. 6 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 @ Sta. 96+42+00± to H-2 @ Sta. 122+42±, Lt.
 Remove and Dispose of 2.50 to 3.50 inches of Asphalt Pavement for the 10.00 foot Shoulder and 12.00 foot Stormwater Gutter. Replace with @.50 to 3.50 inches HMA Pavement Mix No. IV. For Stormwater Gutter Details, See Plan Sheet No. XXX.

H-2 @ Sta. 110+00±, Lt.
 Remove and Dispose of Remaining Emergency Call Box Components and Concrete Pad and Ramp. Grade land-scaping to Surrounding. Reestablish Storm Water Gutter. For details, see Plan Sheet. No. xxx.



ORIGINAL PLAN	DATE
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STATE OF HAWAII
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ROADWAY PLANS

INTERSTATE ROUTE H-2 and MOANALUA FREEWAY

Guardrail and Shoulder Improvements

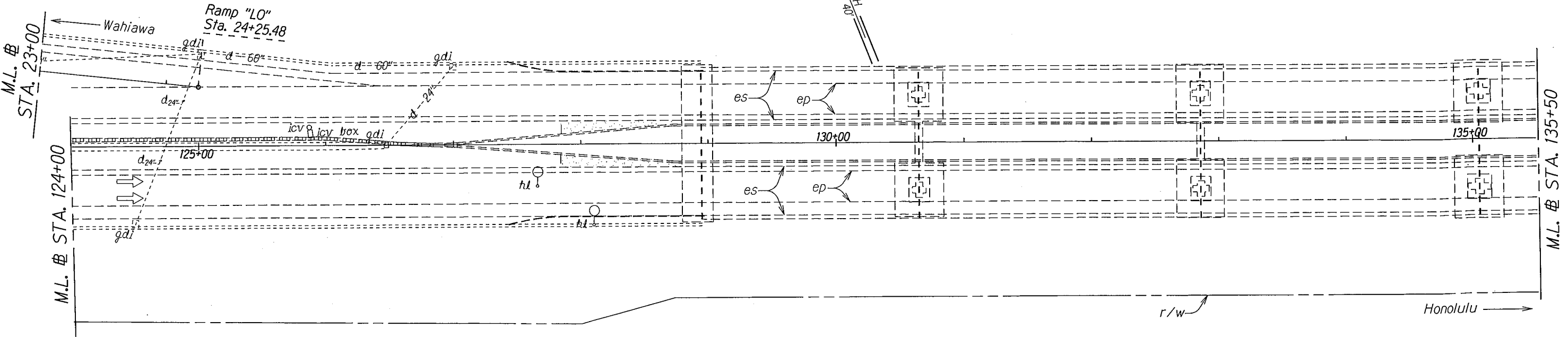
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

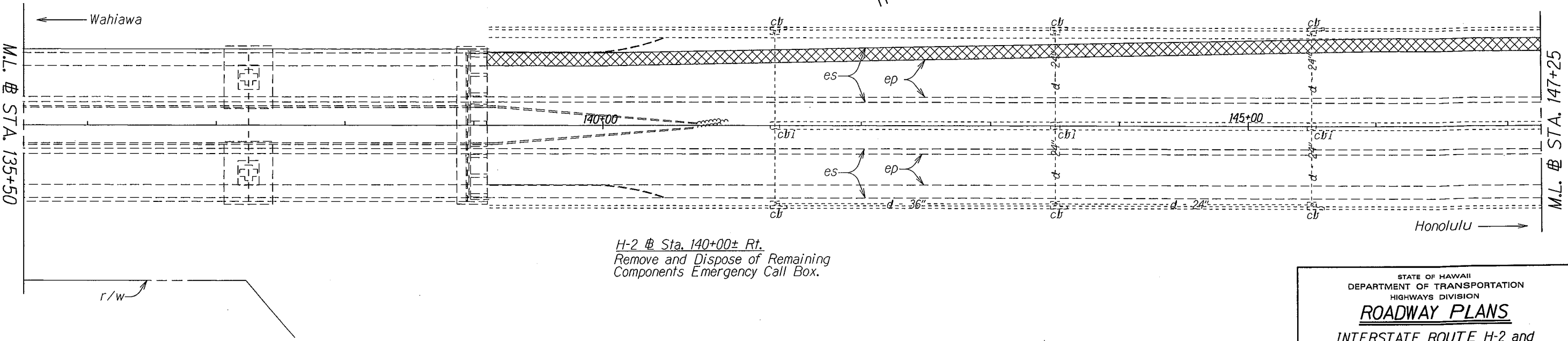
SHEET No. 7 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 @ Sta. 126+25± to @ Sta. 126+50±, Median
Remove and Reinstall 25.00 L. F. of Existing
Double-Sided Guardrail. See Plan Sheet
No. XXX for End Post Details for Site KK.



H-2 @ Sta. 139+10± to @ Sta. 164+09±, Lt.
Remove and Dispose of 2.50 to 3.50 inches of Asphalt
Pavement of the 10.00 foot Shoulder. Replace with
2.50 to 3.50 inches HMA Pavement Mix No. IV.



H-2 @ Sta. 140+00± Rt.
Remove and Dispose of Remaining
Components Emergency Call Box.

DATE	_____
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

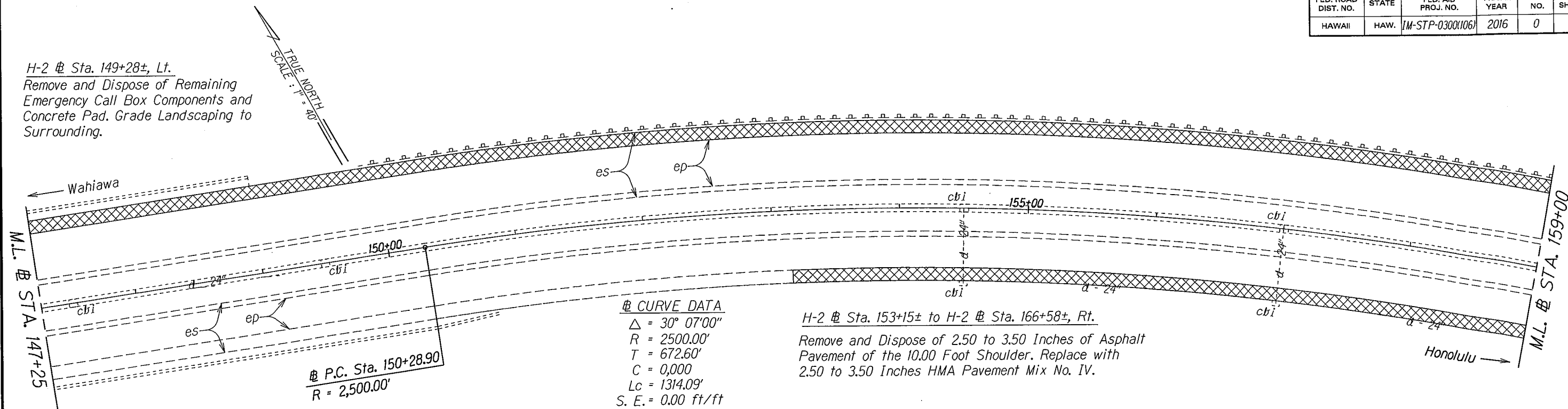
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec. 2014

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-STP-0300(106)	2016	0	0

H-2 @ Sta. 149+28±, Lt.
Remove and Dispose of Remaining
Emergency Call Box Components and
Concrete Pad. Grade Landscaping to
Surrounding.



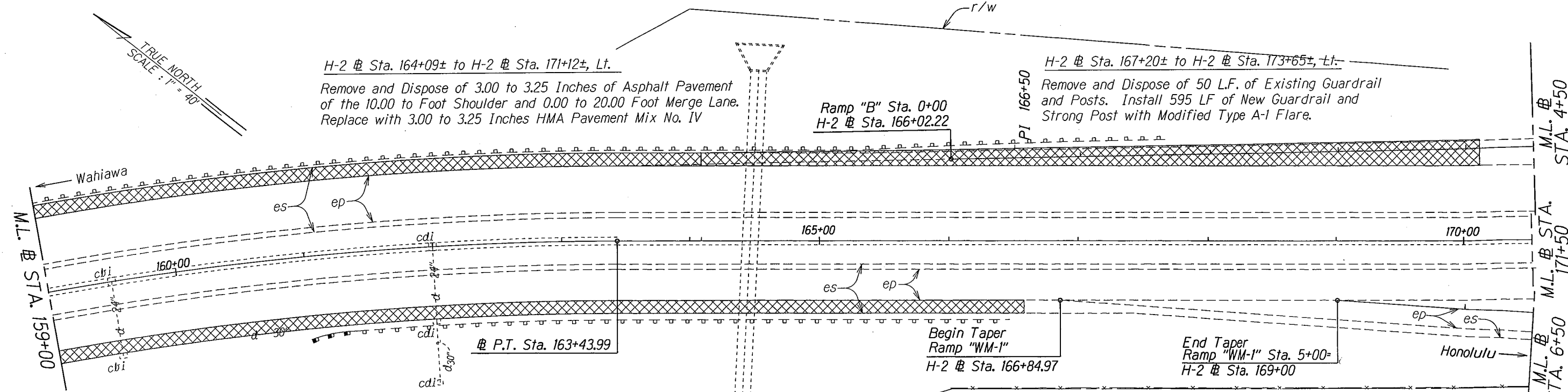
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 $T = 672.60'$
 $C = 0.000$
 $Lc = 1314.09'$
 $S. E. = 0.00 \text{ ft/ft}$

H-2 @ Sta. 153+15± to H-2 @ Sta. 166+58±, Rt.
Remove and Dispose of 2.50 to 3.50 Inches of Asphalt
Pavement of the 10.00 Foot Shoulder. Replace with
2.50 to 3.50 Inches HMA Pavement Mix No. IV.

H-2 @ Sta. 164+09± to H-2 @ Sta. 171+12±, Lt.
Remove and Dispose of 3.00 to 3.25 Inches of Asphalt Pavement
of the 10.00 to Foot Shoulder and 0.00 to 20.00 Foot Merge Lane.
Replace with 3.00 to 3.25 Inches HMA Pavement Mix No. IV

Ramp "B" Sta. 0+00
H-2 @ Sta. 166+02.22

H-2 @ Sta. 167+20± to H-2 @ Sta. 173+65±, Lt.
Remove and Dispose of 50 L.F. of Existing Guardrail
and Posts. Install 595 LF of New Guardrail and
Strong Post with Modified Type A-I Flare.



H-2 @ Sta. 159+50±, Rt.
Remove and Dispose of Remaining
Emergency Call Box Components and
Concrete Pad and Ramp. Grade
Landscaping to Surrounding. Re-
establish Storm Water Gutter.
For Details, See Plan Sheet No. ____

H-2 @ Sta. 161+00± to H-2 @ Sta. 161+37.50±, Rt.
Remove and Dispose of Existing End Treatment.
Install Fleet-350 End Terminal. For Details, See
Plan Sheet No. ____

H-2 @ Sta. 166+00± to H-2 @ Sta. 183+00±, Rt.
Remove and Dispose of 1,700 L.F. of Top Bar
from the Existing Chain Link Fence. Install
Wire per Standard Detail Plan D-03.

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STATE OF HAWAII
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ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

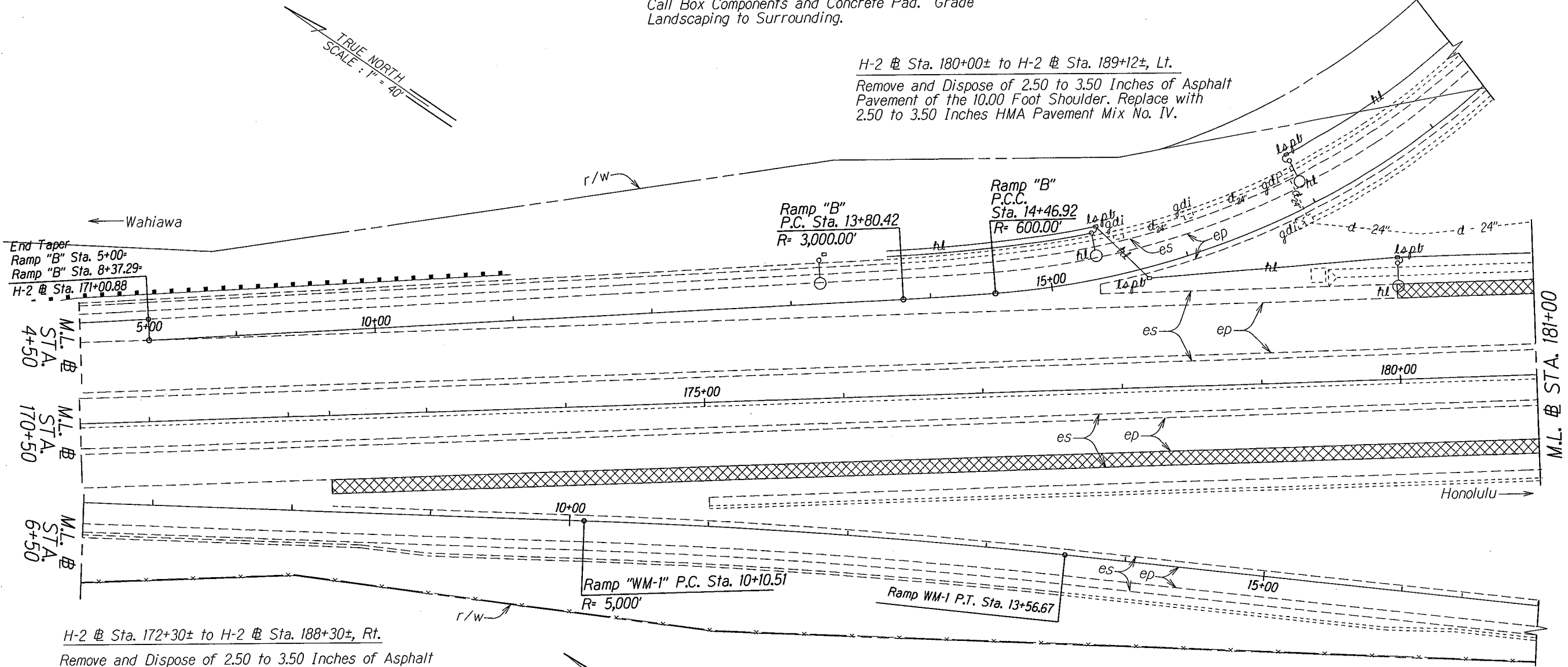
Guardrail and Shoulder Improvements
Federal-Aid Project No. 1M-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

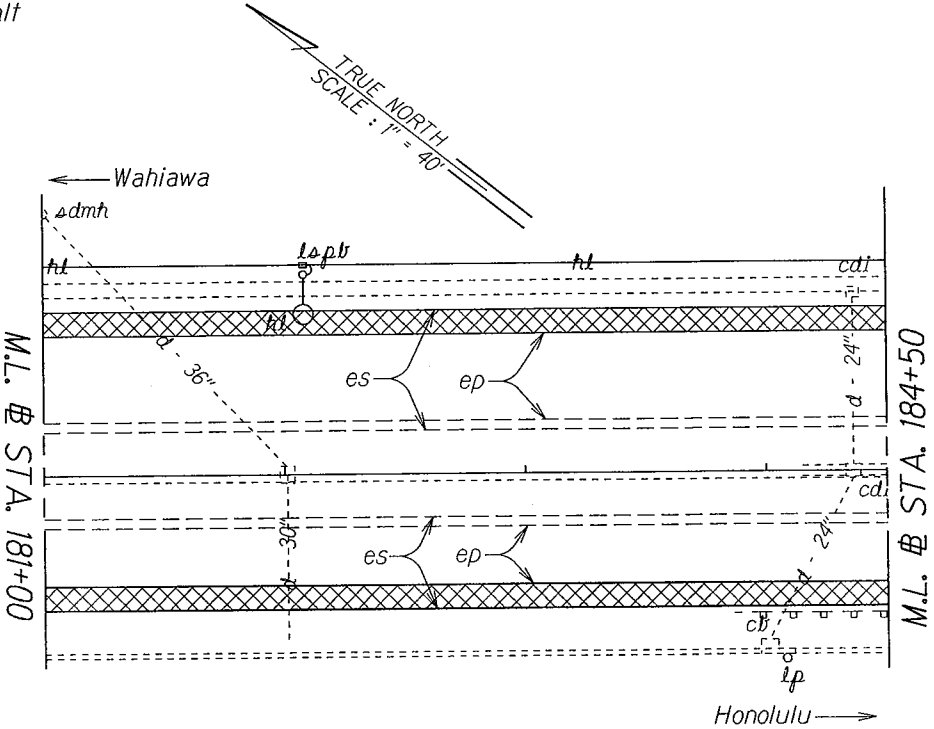
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 @ Sta. 179+48±, Lt.
Remove and Dispose of Remaining Emergency Call Box Components and Concrete Pad. Grade Landscaping to Surrounding.

H-2 @ Sta. 180+00± to H-2 @ Sta. 189+12±, Lt.
Remove and Dispose of 2.50 to 3.50 Inches of Asphalt Pavement of the 10.00 Foot Shoulder. Replace with 2.50 to 3.50 Inches HMA Pavement Mix No. IV.



H-2 @ Sta. 172+30± to H-2 @ Sta. 188+30±, Rt.
Remove and Dispose of 2.50 to 3.50 Inches of Asphalt Pavement of the 10.00 Foot Shoulder. Replace with 2.50 to 3.50 Inches HMA Pavement Mix No. IV.



H-2 @ Sta. 183+75± to H-2 @ Sta. 187+50±, Rt.
Remove and Dispose of 375 L.F. of Guardrail and Posts. Install 350 L.F. of New W-Beam Guardrail and Strong Post at ES with SKT-350 Approach End Treatment. See Plan Sheet No. ____ for End Post and Thrie Beam Details for Site JJ.

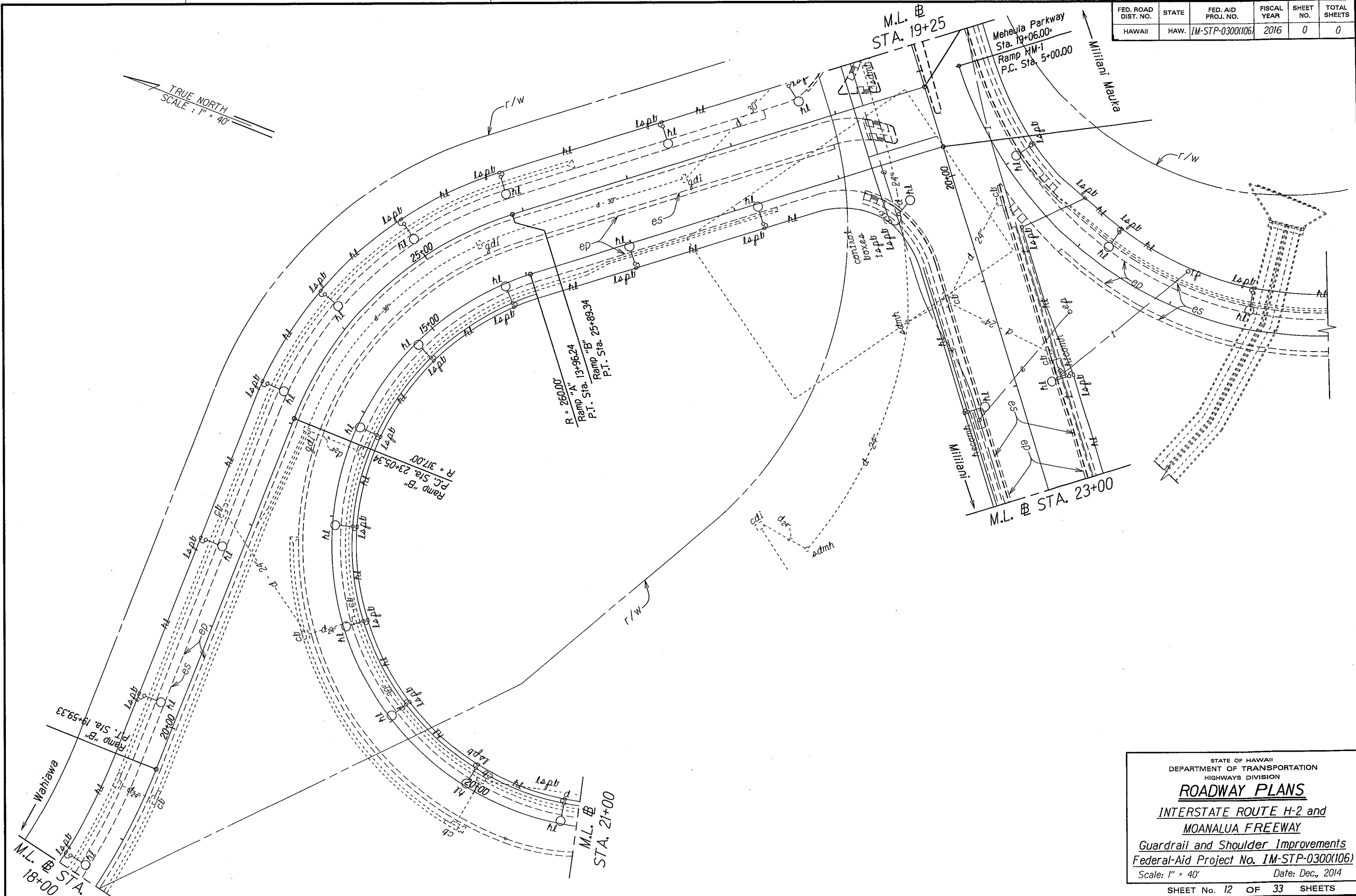
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40'
Date: Dec., 2014

SHEET No. 10 OF 33 SHEETS

DESIGNED BY	DATE
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NOTED BY	
PLANNED BY	
ENGINEER	
NO. _____	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
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	TRACED BY _____	"
	DESIGNED BY _____	"
	QUANTITIES BY _____	"
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

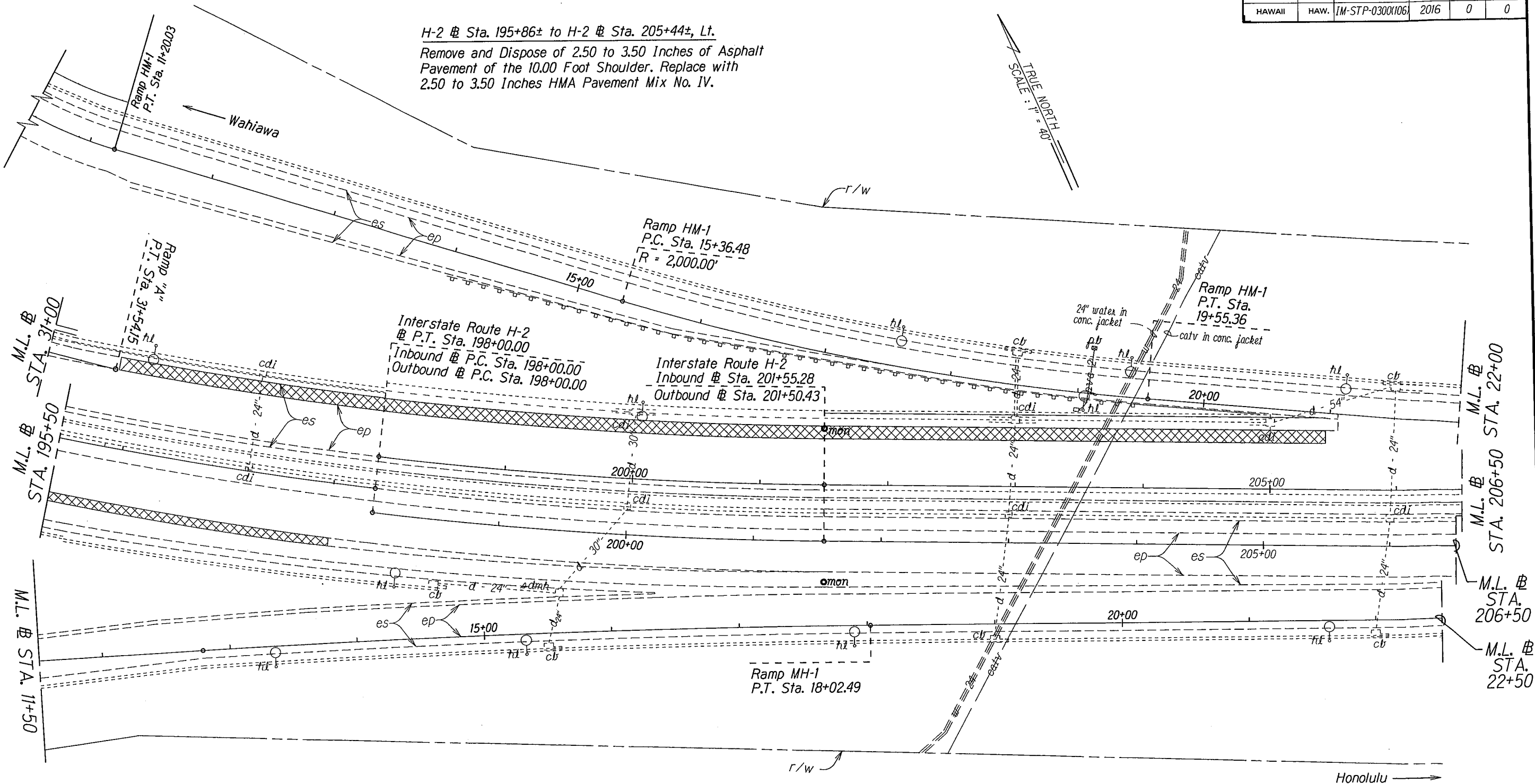
Guardrail and Shoulder Improvements
Federal-Aid Project No. 1M-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 12 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-STP-0300(106)	2016	0	0

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
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DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

**INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY**

Guardrail and Shoulder Improvements

Federal-Aid Project No. 1M-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 13 OF 33 SHEETS

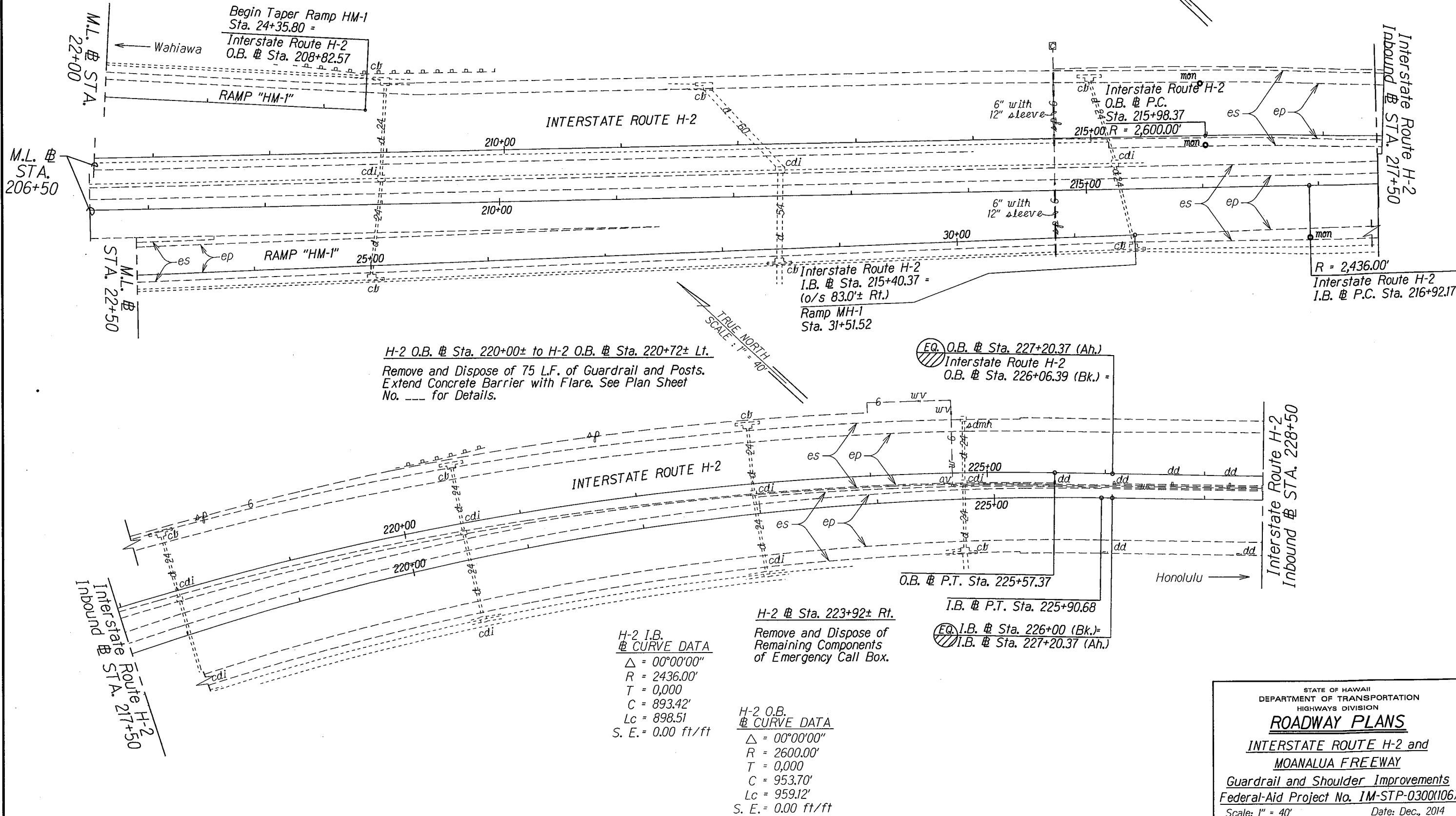
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 @ Sta. 208+22± to H-2 @ Sta. 209+97± Lt.

Remove and Dispose of 175 L.F. Guardrail and Posts.
Install 150 L.F. of Thrie Beam and Strong Posts with
Modified Type A-1 Flare Thrie Beam End Treatment.
For Details See Plan Sheet No. ____

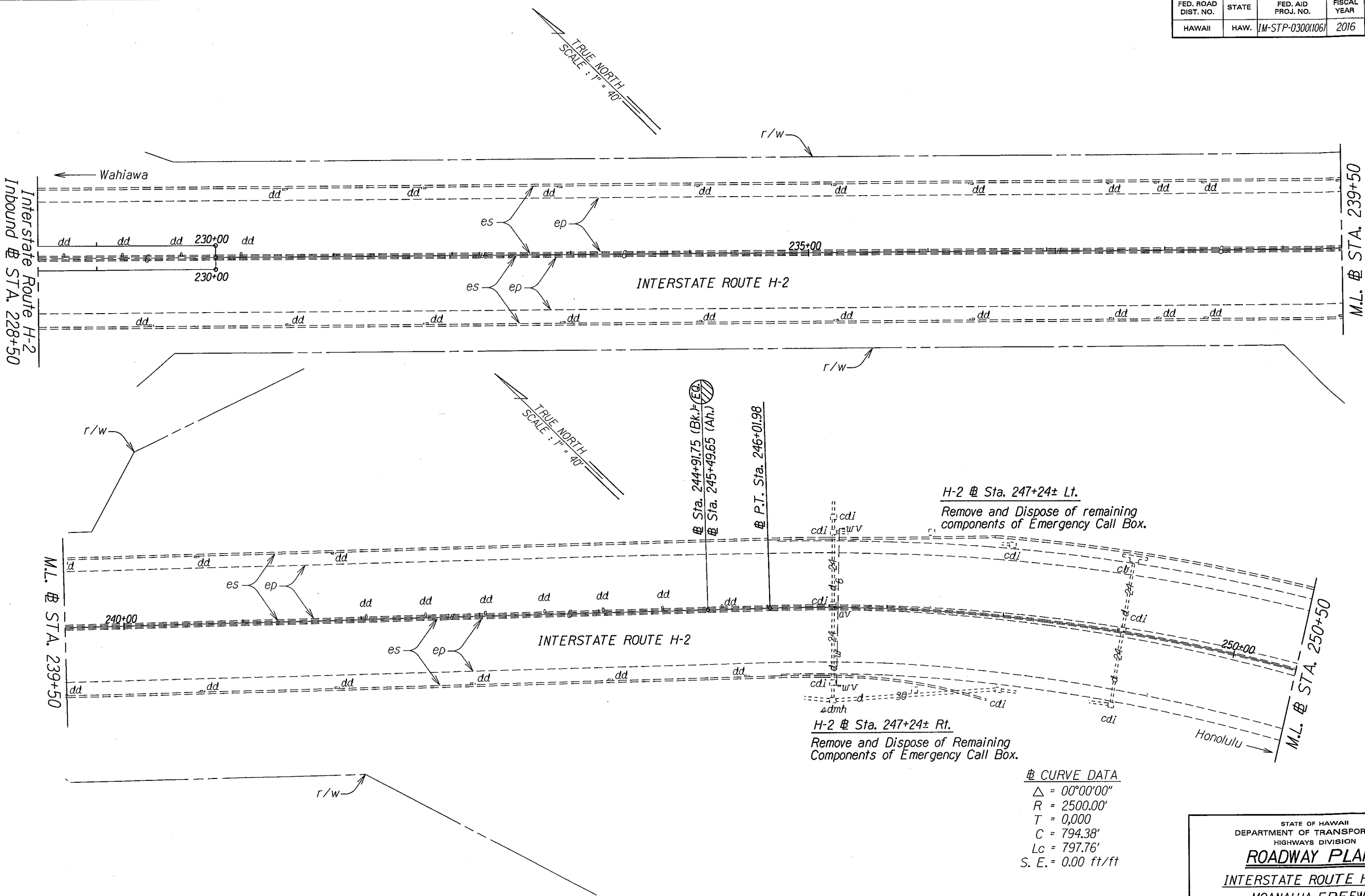
H-2 @ Sta. 211+75± Lt.

Remove and Dispose of Remaining Components
of Emergency Call Box. Reestablish Storm Water
Gutter. For Details, See Plan Sheet No. ____



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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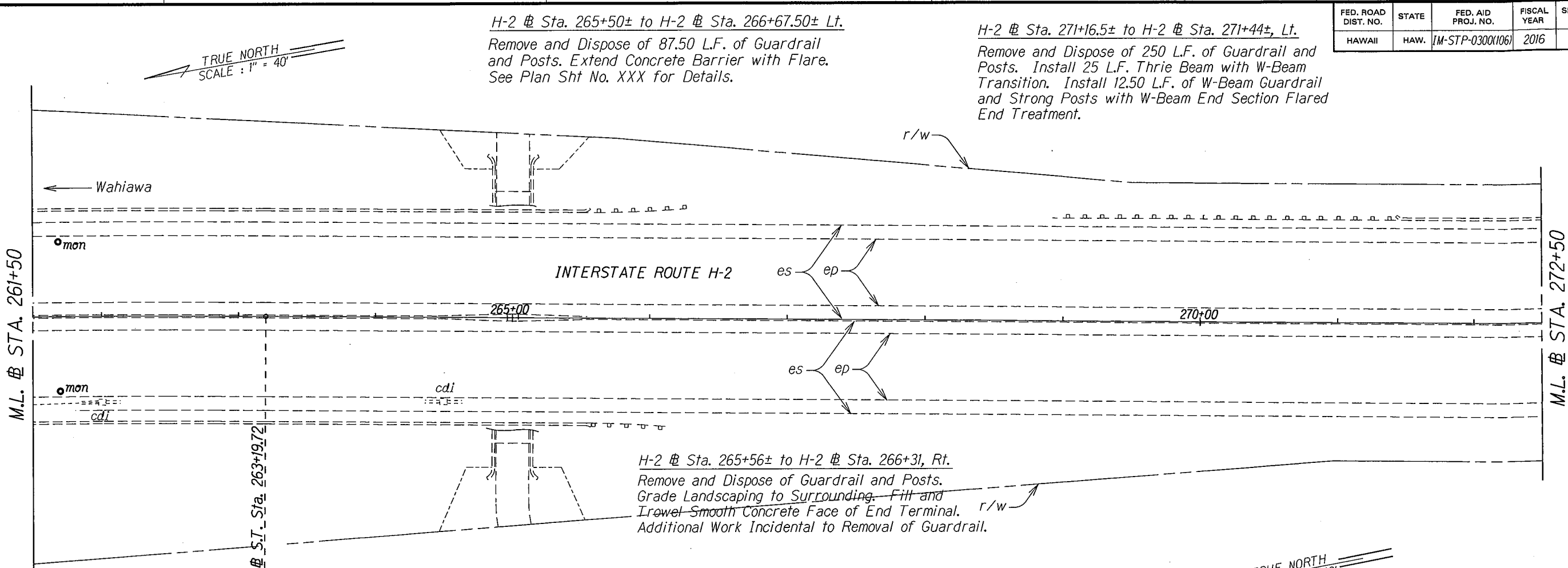
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 $T = 0.000$
 $C = 794.38'$
 $Lc = 797.76'$
 $S. E. = 0.00 \text{ ft/ft}$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40'
Date: Dec., 2014

SHEET No. 15 OF 33 SHEETS
Date: June 23, 2016

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



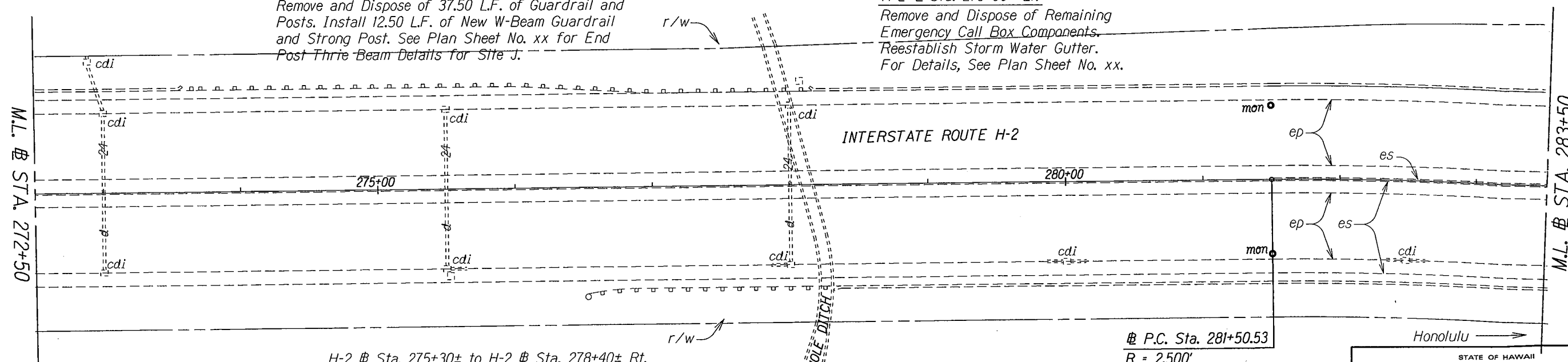
H-2 Sta. 265+50± to H-2 Sta. 266+67.50± Lt.
Remove and Dispose of 87.50 L.F. of Guardrail and Posts. Extend Concrete Barrier with Flare. See Plan Sht No. XXX for Details.

H-2 Sta. 271+16.5± to H-2 Sta. 271+44±, Lt.
Remove and Dispose of 250 L.F. of Guardrail and Posts. Install 25 L.F. Thrie Beam with W-Beam Transition. Install 12.50 L.F. of W-Beam Guardrail and Strong Posts with W-Beam End Section Flared End Treatment.

H-2 Sta. 265+56± to H-2 Sta. 266+31, Rt.
Remove and Dispose of Guardrail and Posts. Grade Landscaping to Surrounding. Fill and Trowel Smooth Concrete Face of End Terminal. Additional Work Incidental to Removal of Guardrail.

H-2 Sta. 273+50± to H-2 Sta. 273+87.5± Lt.
Remove and Dispose of 37.50 L.F. of Guardrail and Posts. Install 12.50 L.F. of New W-Beam Guardrail and Strong Post. See Plan Sheet No. xx for End Post Thrie Beam Details for Site J.

H-2 Sta. 278+00± Lt.
Remove and Dispose of Remaining Emergency Call Box Components. Reestablish Storm Water Gutter. For Details, See Plan Sheet No. xx.



H-2 Sta. 275+30± to H-2 Sta. 278+40± Rt.
Remove and Dispose of 86 L.F. of Guardrail and Post. Install 237.50 L.F. of New W-Beam Guardrail and Strong Post with Fleet 350 End Treatment. See Plan Sheet No. xx for End Post and Thrie Beam Details for Site HH.

H-2 Sta. 275+50± Rt.
Remove and Dispose of Remaining Emergency Call Box Components and Concrete Pad and Ramp. Grade Landscaping to Surrounding. Reestablish Storm Water Gutter. For Details, See Plan Sheet. No. xx.

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STATE OF HAWAII
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HIGHWAYS DIVISION

ROADWAY PLANS

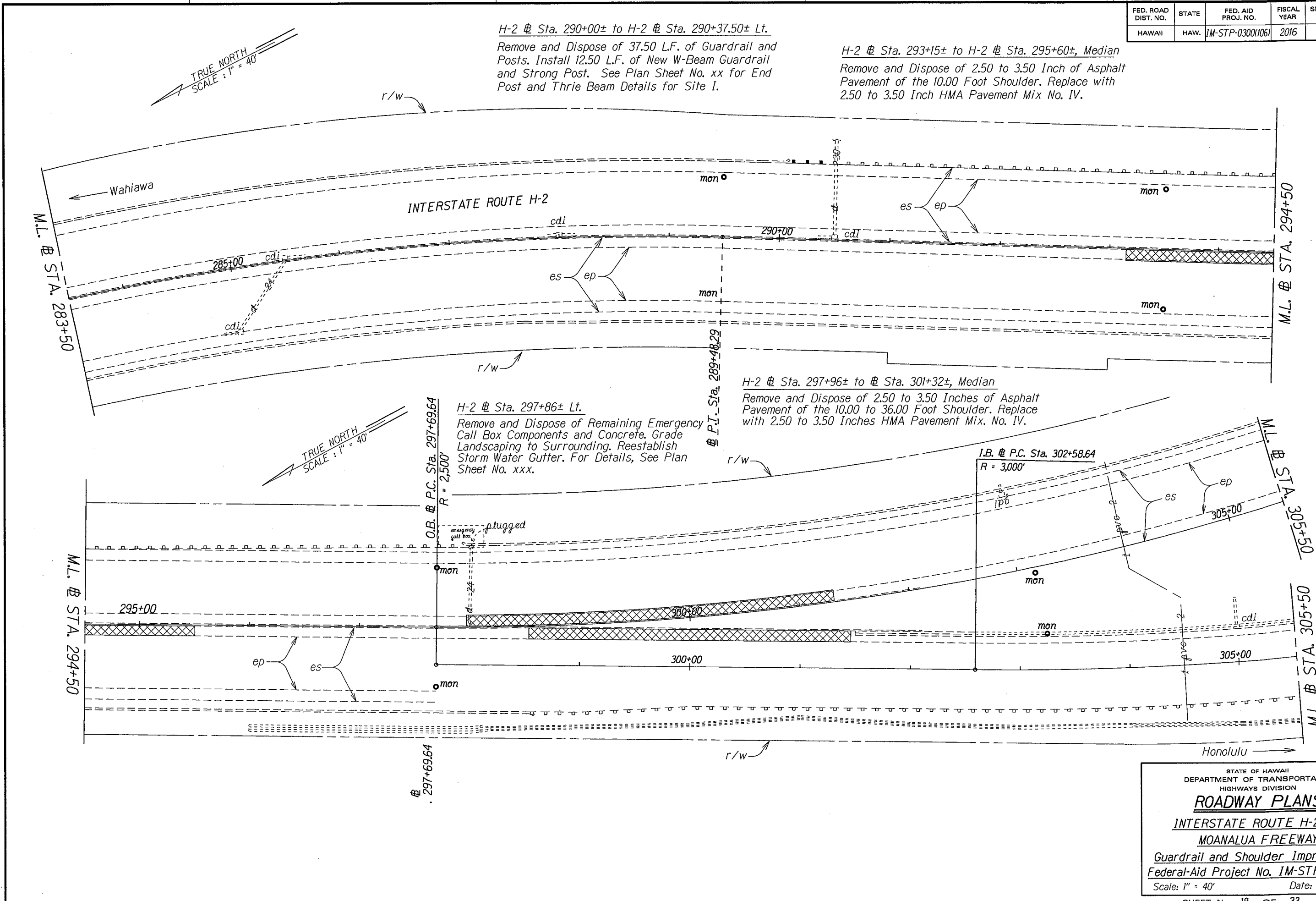
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-STP-0300(106)	2016	0	0

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STATE OF HAWAII
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HIGHWAYS DIVISION

ROADWAY PLANS

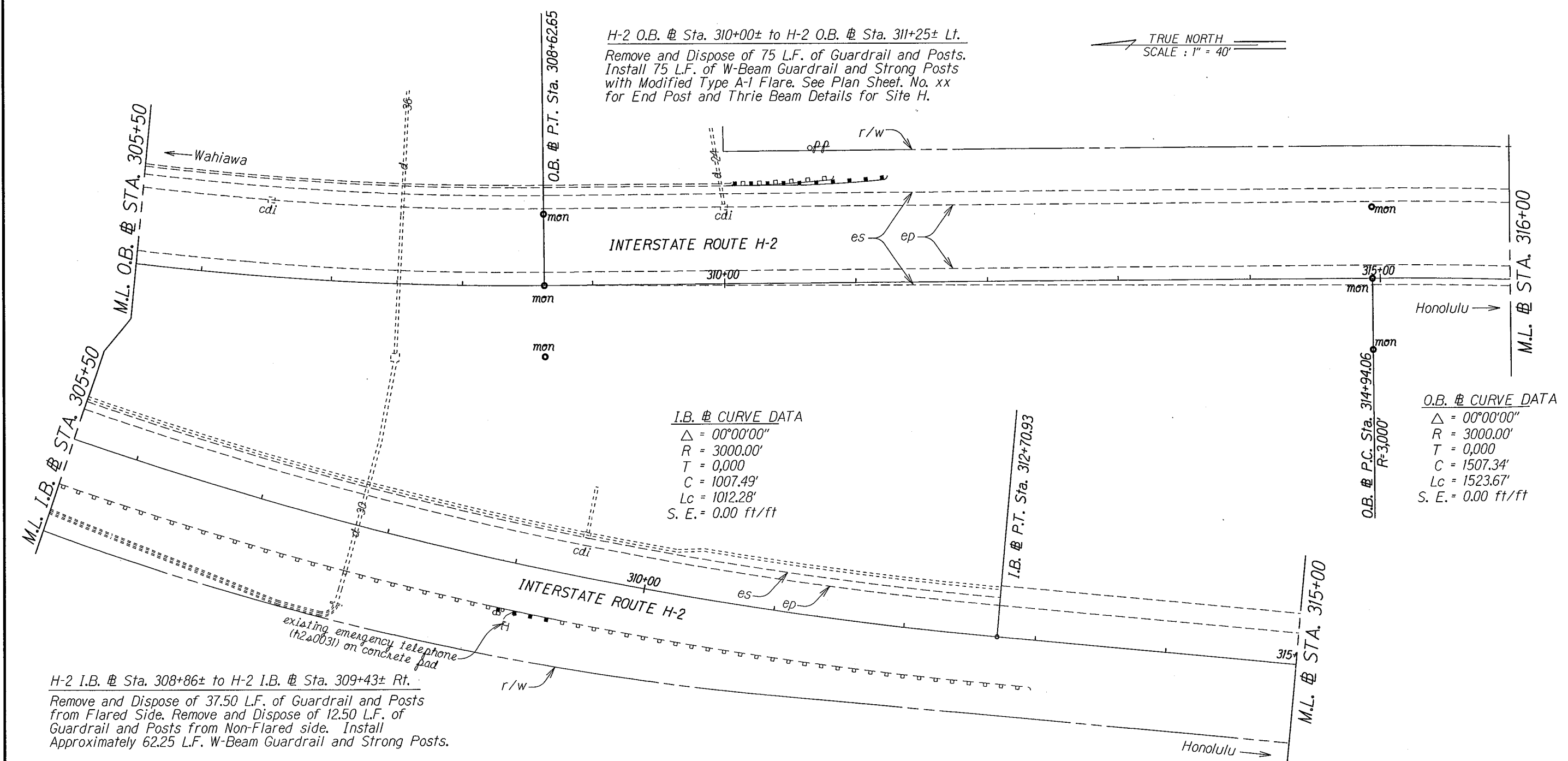
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. 1M-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 18 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-STP-0300(106)	2016	0	0



I.B. CURVE DATA
 $\Delta = 00^{\circ}00'00''$
 $R = 3000.00'$
 $T = 0.000$
 $C = 1007.49'$
 $Lc = 1012.28'$
 $S. E. = 0.00 \text{ ft/ft}$

O.B. CURVE DATA
 $\Delta = 00^{\circ}00'00''$
 $R = 3000.00'$
 $T = 0.000$
 $C = 1507.34'$
 $Lc = 1523.67'$
 $S. E. = 0.00 \text{ ft/ft}$

H-2 I.B. Sta. 308+86± to H-2 I.B. Sta. 309+43± Rt.
 Remove and Dispose of 37.50 L.F. of Guardrail and Posts from Flared Side. Remove and Dispose of 12.50 L.F. of Guardrail and Posts from Non-Flared side. Install Approximately 62.25 L.F. W-Beam Guardrail and Strong Posts.

H-2 I. B. Sta. 309+00± Rt.
 Remove and Dispose of Remaining Emergency Call Box Components, Concrete Pad and Ramp. Grade Landscaping to Surrounding. Reestablish Storm Water Gutter. For Details, See Plan Sheet No. XX.

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HIGHWAYS DIVISION

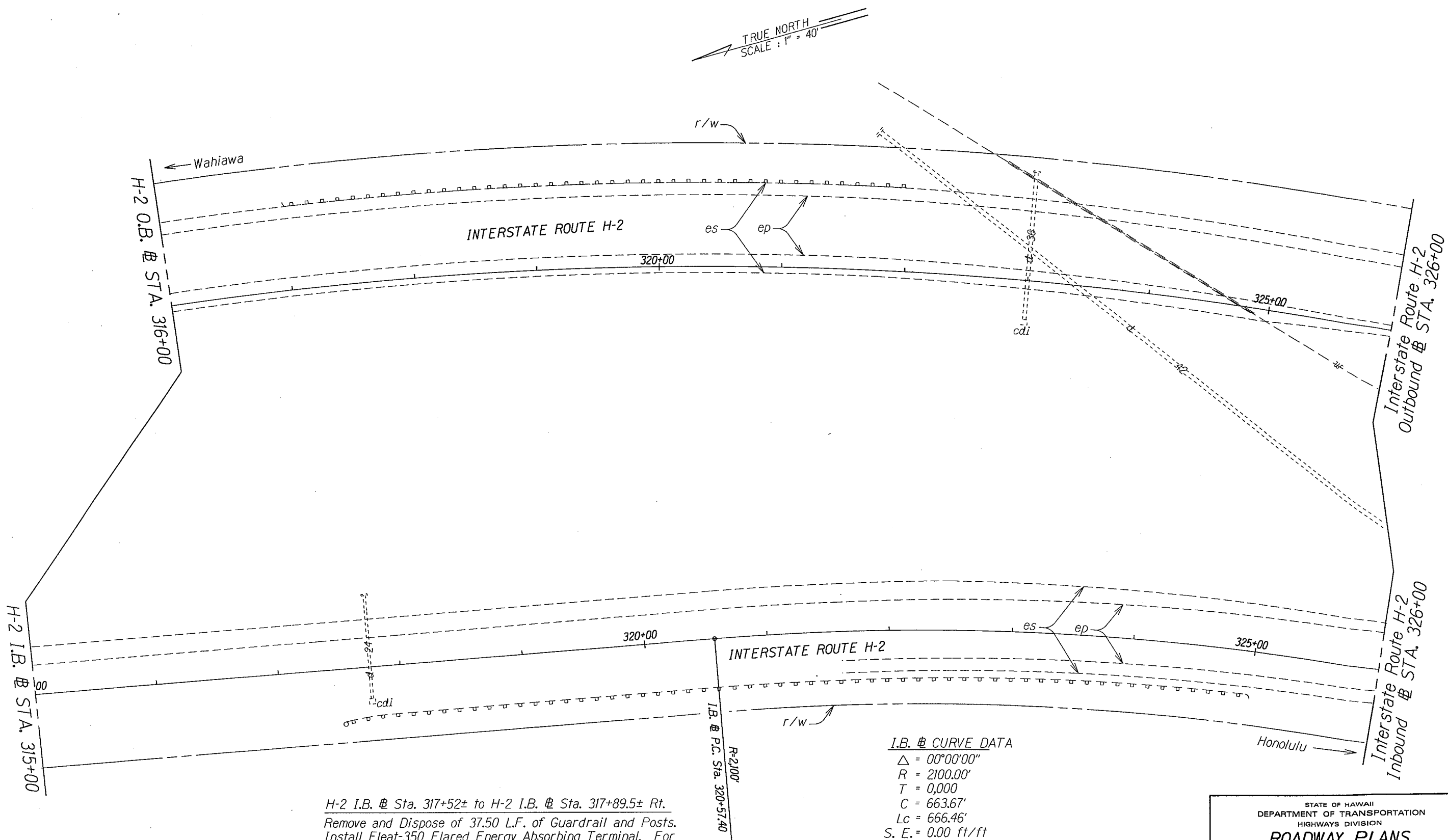
ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. 1M-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



H-2 I.B. @ Sta. 317+52± to H-2 I.B. @ Sta. 317+89.5± Rt.
 Remove and Dispose of 37.50 L.F. of Guardrail and Posts.
 Install Fleet-350 Flared Energy Absorbing Terminal. For
 Details, See Plan Sheet No. xxx.

I.B. @ CURVE DATA
 $\Delta = 00^{\circ}00'00''$
 $R = 2100.00'$
 $T = 0.000$
 $C = 663.67'$
 $L_c = 666.46'$
 $S. E. = 0.00 \text{ ft/ft}$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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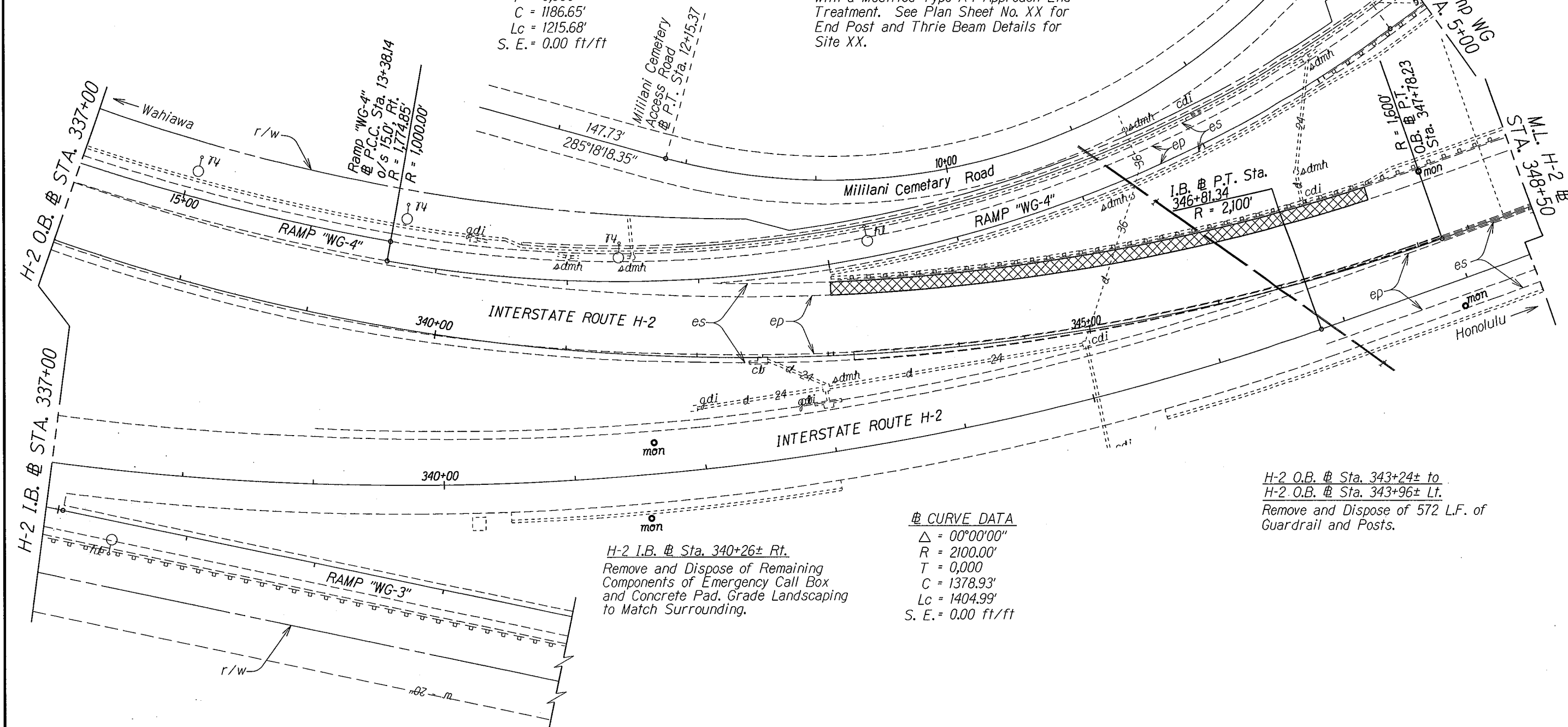
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 @ Sta. 343+04± to H-2 @ Sta. 347+33±, Lt.
Remove and Dispose of 2.50 to 3.50 Inches of Asphalt Pavement 10.00 Foot Shoulder and 2.00 Foot Stormwater Gutter. Replace with 2.50 to 3.50 Inches HMA Pavement Mix No. IV. See Plan Sheet No. XXX for Stormwater Gutter Details.

④ CURVE DATA
 $\Delta = 00^{\circ}00'00''$
 $R = 1600.00'$
 $T = 0.000$
 $C = 1186.65'$
 $Lc = 1215.68'$
 $S. E. = 0.00 \text{ ft/ft}$

Ramp WG-4 @ Sta. 3+70± to
Ramp WG-4 @ Sta. 5+00± Lt.
Remove and Dispose of 130 L.F. of Guardrail and Posts. Install 112.50 L.F. of W-Beam Guardrail and Strong Post with a Modified Type A-1 Approach End Treatment. See Plan Sheet No. XX for End Post and Thrie Beam Details for Site XX.

H-2 O.B. @ Sta. 343+24± to
H-2 O.B. @ Sta. 348+96± Lt.
Remove and Dispose of 572 L.F. of Guardrail and Posts.



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40' Date: Dec., 2014

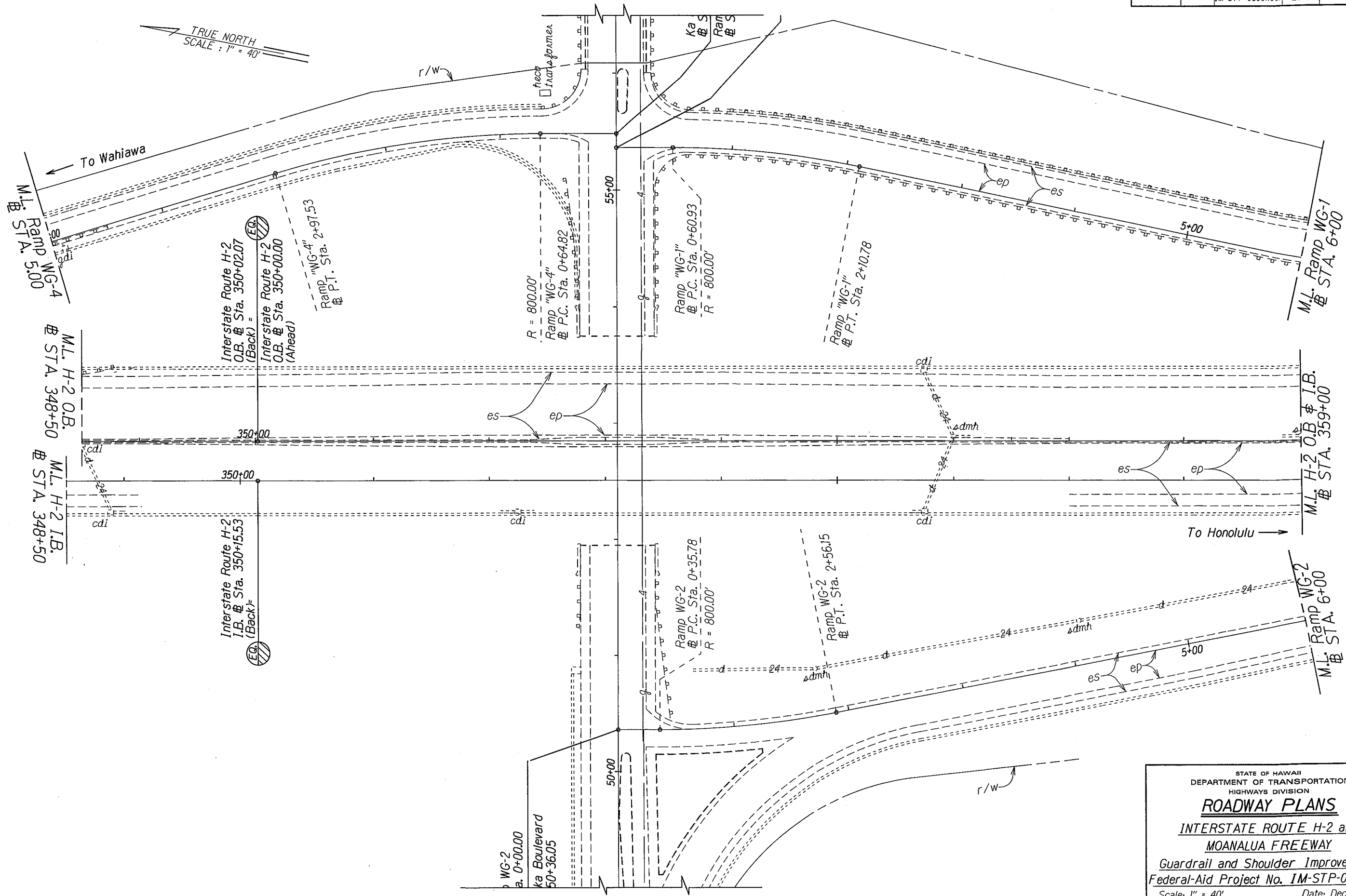
SHEET No. 22 OF 33 SHEETS

Date: June 27, 2016

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

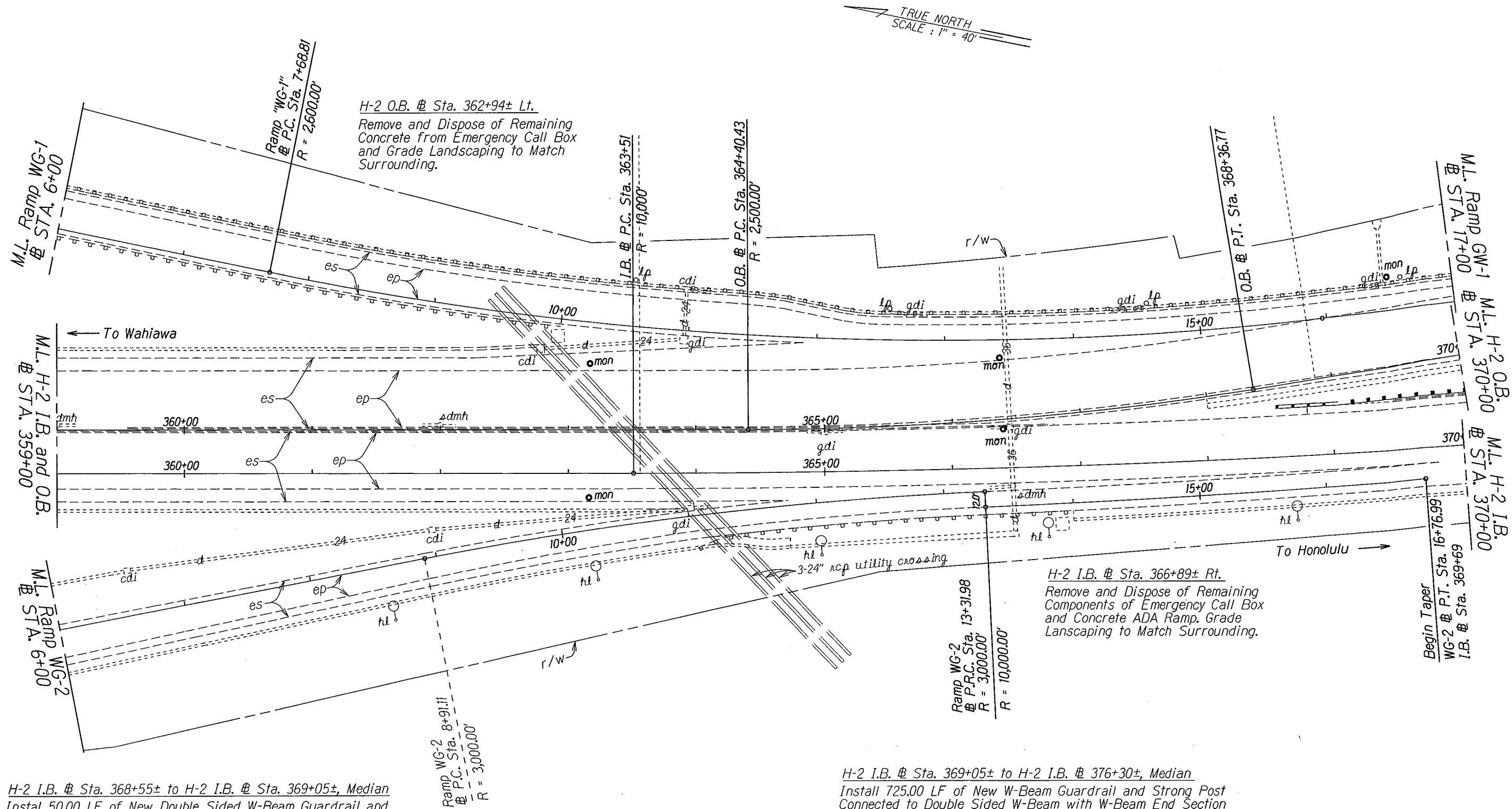
ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40'
Date: Dec., 2014

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



H-2 I.B. @ Sta. 368+55± to H-2 I.B. @ Sta. 369+05±, Median
 Instal 50.00 LF of New Double Sided W-Beam Guardrail and Strong Post
 and Strong Posts Behind Median Barrier with Type G Flare
 and W-Beam End Section Buffer on Trailing End. Install
 Posts at Shoulders Edge.

H-2 I.B. @ Sta. 369+05± to H-2 I.B. @ 376+30±, Median
 Install 725.00 LF of New W-Beam Guardrail and Strong Post
 Connected to Double Sided W-Beam with W-Beam End Section
 Rounded (Trailing End). Install Posts at Shoulders Edge, Top
 of Fore Slope of Concrete Storm Swale. See Construction Note
 Sheet No. 26 for Disposal of Existing Guardrail.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

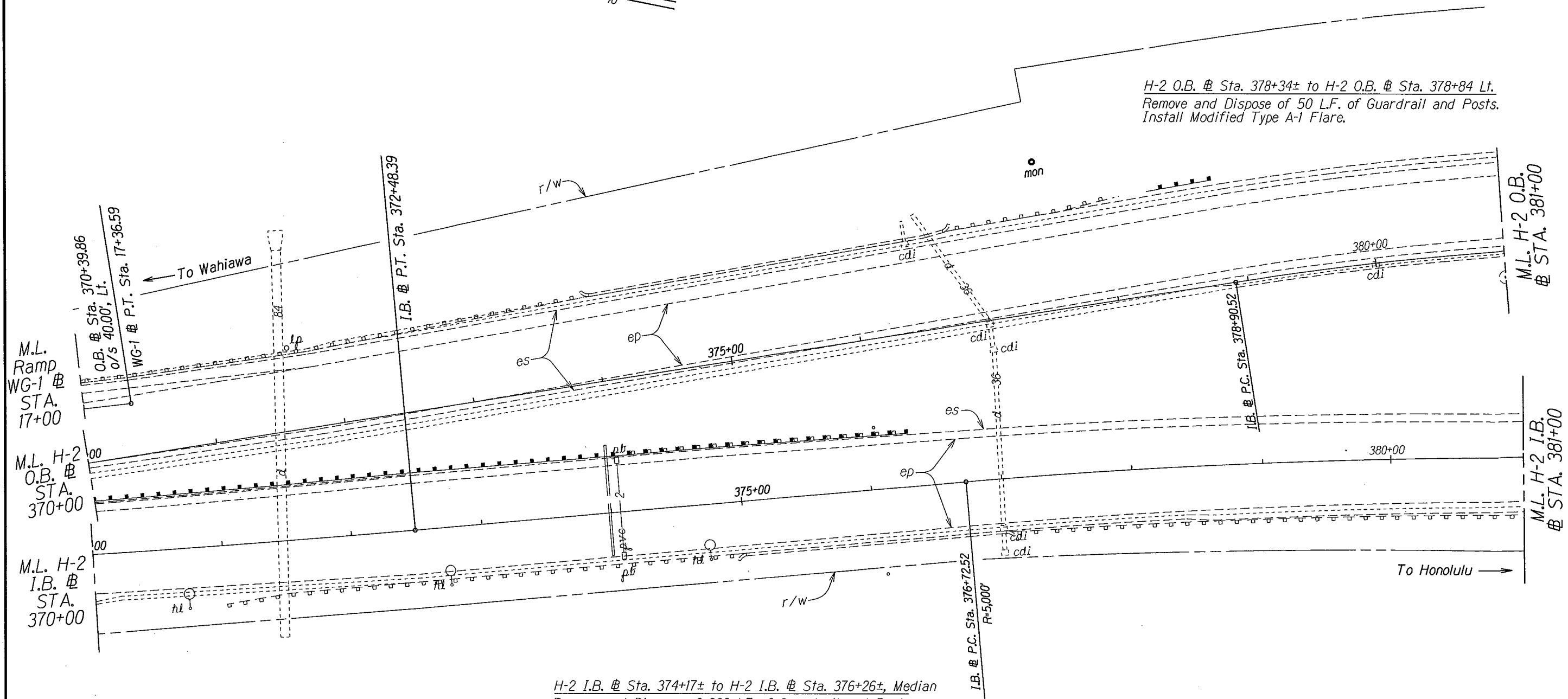
Scale: 1" = 40' Date: Dec., 2014

SHEET No. 24 OF 33 SHEETS

SURVEY PLOTTED BY	DATE
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ORIGINAL PLAN	
NOTE BOOK	
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

TRUE NORTH
SCALE : 1" = 40'



SURVEY PLOTTED BY	DATE
DRAWN BY	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

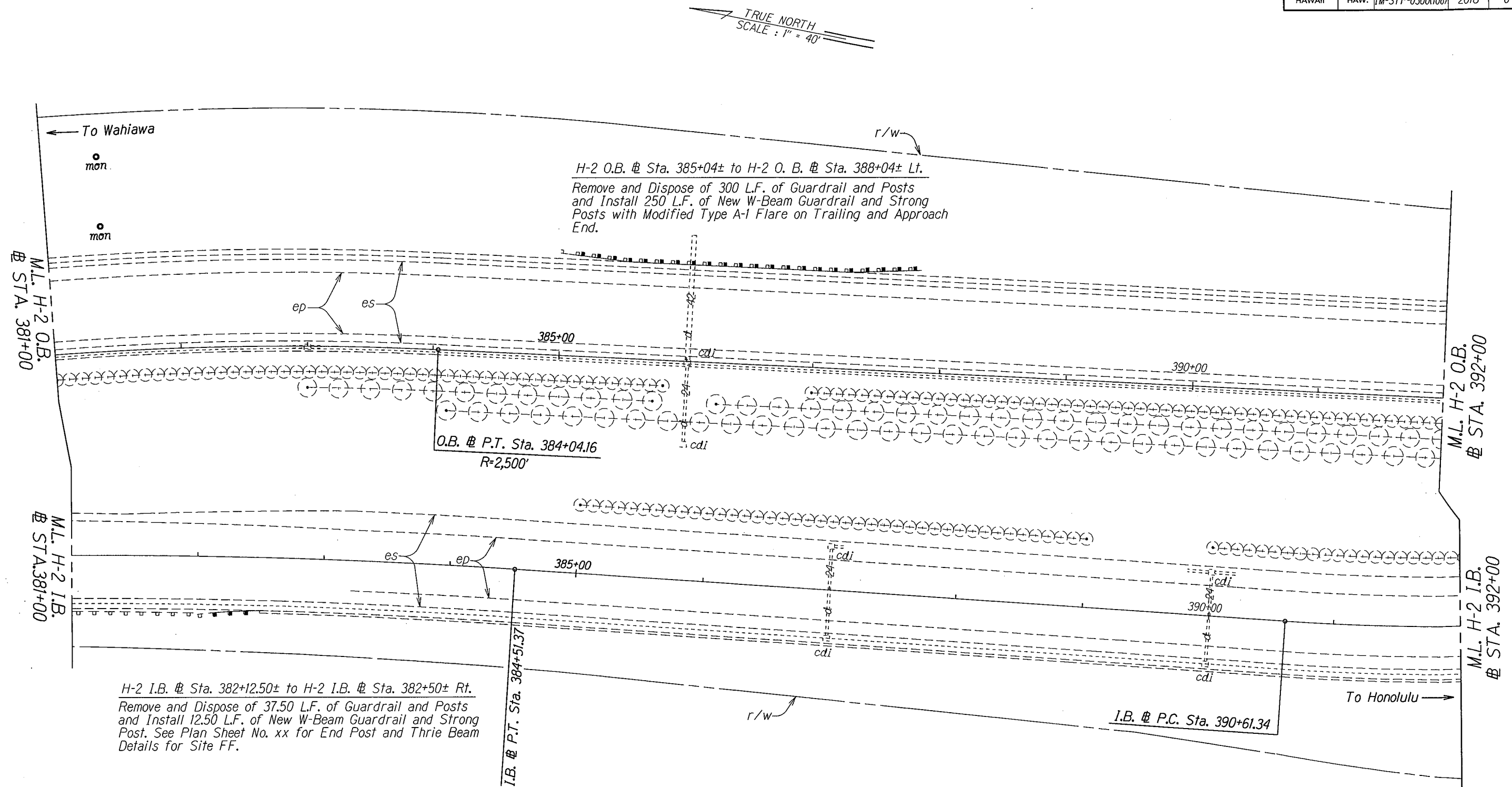
Guardrail and Shoulder Improvements

Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 25 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 26 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 O.B. @ PC Sta. 392+97± to H-2 O.B. @ Sta. 394+22± Lt.
 Remove and Dispose of 125 L.F. of Guardrail and Posts.
 Install 25 L.F. of New Thrie Beam with W-Beam Transitions.
 Install 75 L.F. of New W-Beam Guardrail and Strong Post with Modified Type A-1 Flare. See Plan Sheet No. xx for Thrie Beam Details.

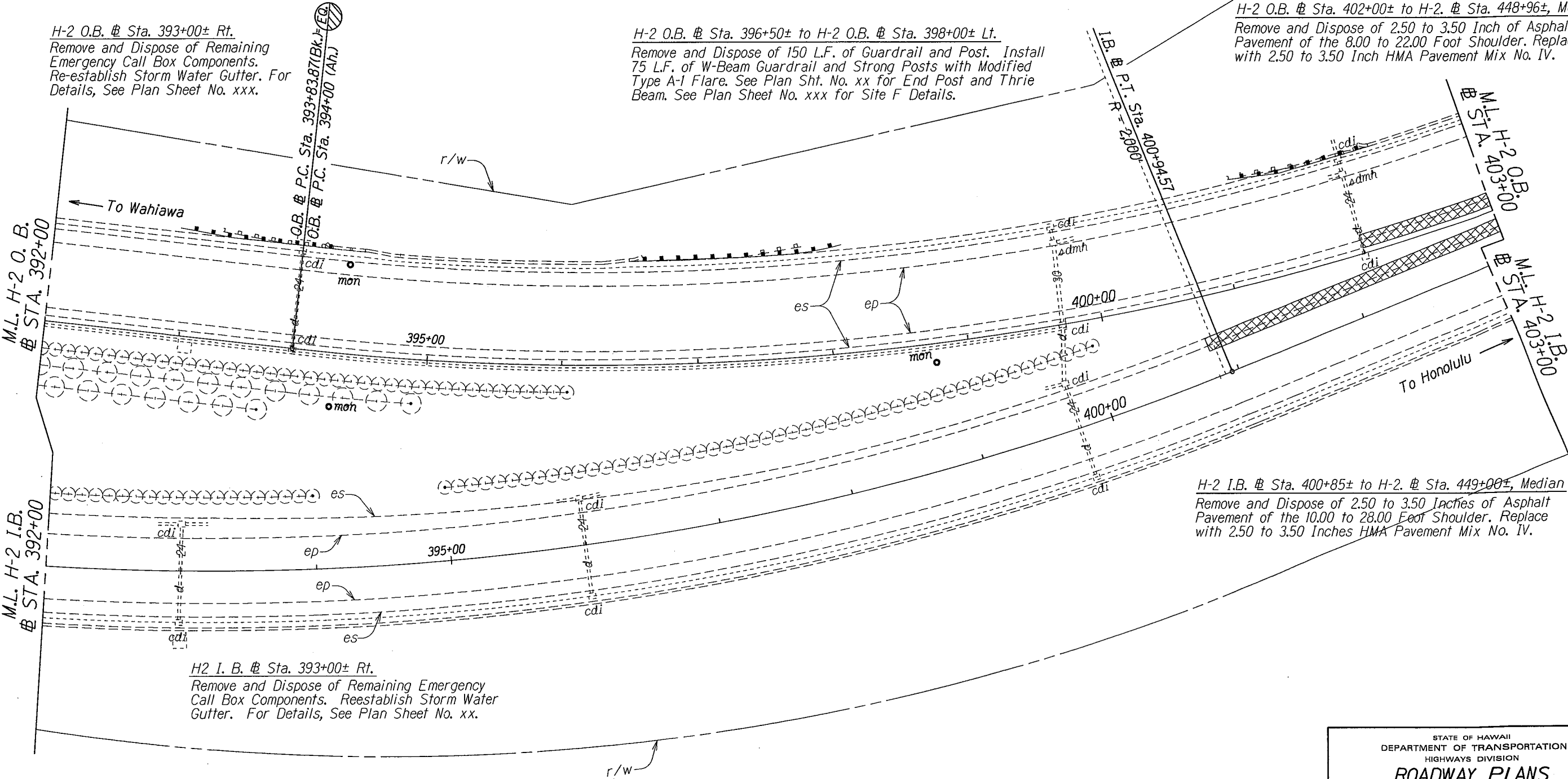
H-2 O.B. @ Sta. 401+14± to H-2 O.B. @ Sta. 402+24± Lt.

Remove and dispose of 110 LF of guardrail and posts.
 Grade landscaping to surrounding. Fill and trowel smooth concrete face of End Terminal. Additional work incidental to removal of Guardrail

H-2 O.B. @ Sta. 393+00± Rt.
 Remove and Dispose of Remaining Emergency Call Box Components.
 Re-establish Storm Water Gutter. For Details, See Plan Sheet No. xxx.

H-2 O.B. @ Sta. 396+50± to H-2 O.B. @ Sta. 398+00± Lt.
 Remove and Dispose of 150 L.F. of Guardrail and Post. Install 75 L.F. of W-Beam Guardrail and Strong Posts with Modified Type A-1 Flare. See Plan Sht. No. xx for End Post and Thrie Beam. See Plan Sheet No. xxx for Site F Details.

H-2 O.B. @ Sta. 402+00± to H-2. @ Sta. 448+96±, Median
 Remove and Dispose of 2.50 to 3.50 Inch of Asphalt Pavement of the 8.00 to 22.00 Foot Shoulder. Replace with 2.50 to 3.50 Inch HMA Pavement Mix No. IV.



H2 I. B. @ Sta. 393+00± Rt.
 Remove and Dispose of Remaining Emergency Call Box Components. Reestablish Storm Water Gutter. For Details, See Plan Sheet No. xx.

H-2 I.B. @ Sta. 400+85± to H-2. @ Sta. 449+00±, Median
 Remove and Dispose of 2.50 to 3.50 Inches of Asphalt Pavement of the 10.00 to 28.00 Foot Shoulder. Replace with 2.50 to 3.50 Inches HMA Pavement Mix No. IV.

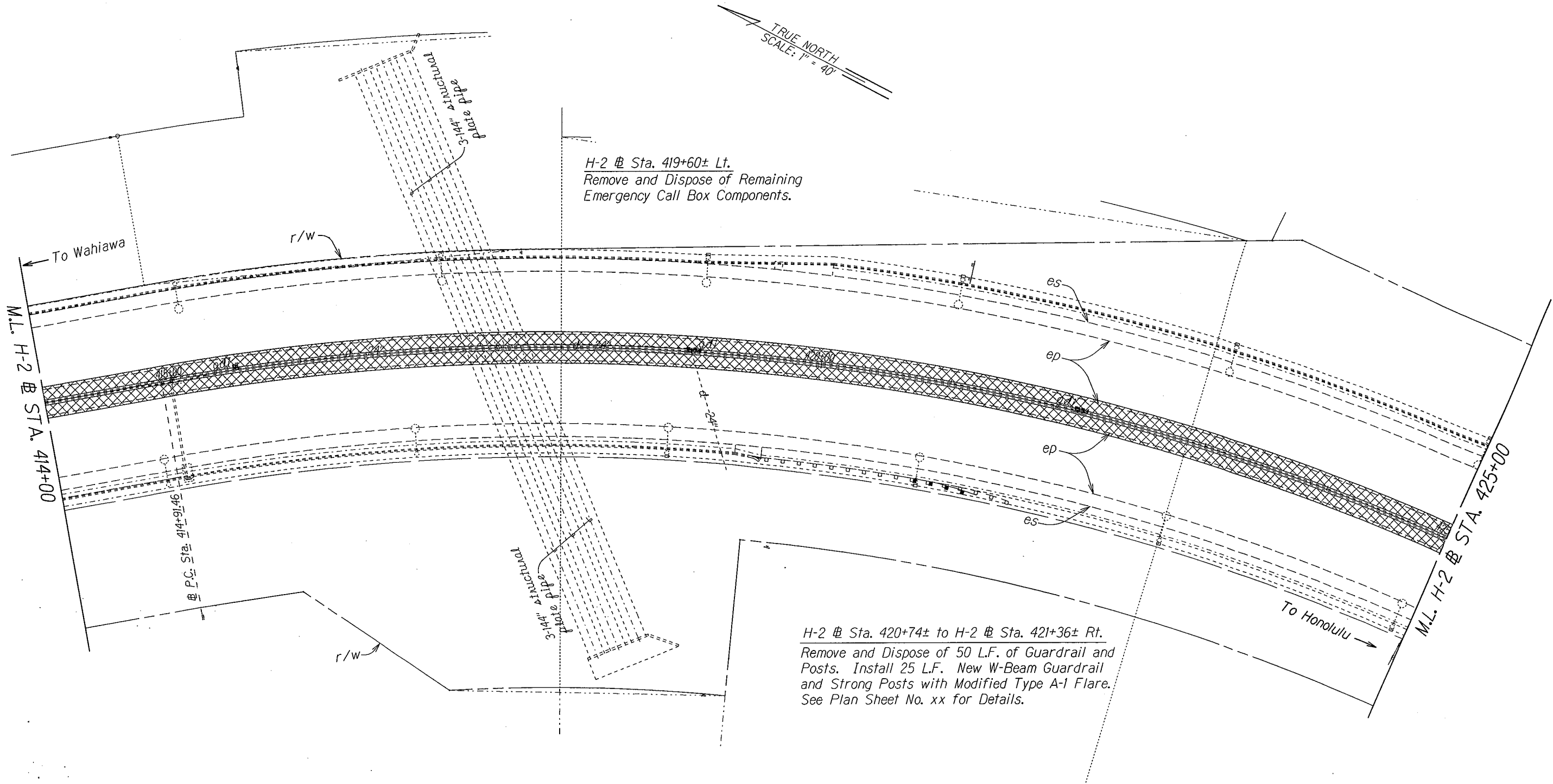
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40' Date: Dec., 2014

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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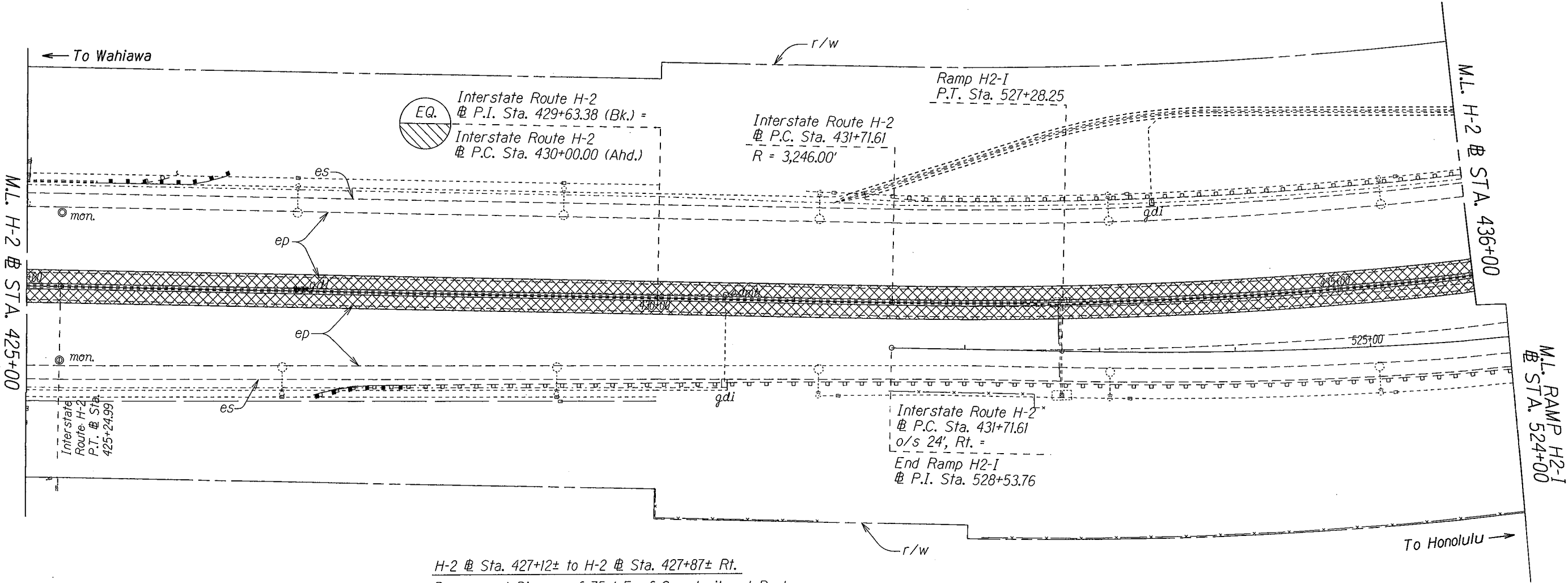
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40' Date: Dec., 2014
SHEET No. 29 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

TRUE NORTH
SCALE: 1" = 40'

H-2 @ Sta. 425+50± to H-2 @ Sta. 426+47± Lt.
Remove and Dispose of 30 L.F. of Guardrail and Posts. Extend Concrete Barrier with Flare.
See Plan Sht No. XXX for Details.

H-2 @ Sta. 429+93.50± to H-2 Sta.430+43.50± Lt.
Remove and Dispose of 37.50 L.F. of Guardrail and Posts.
Install Modified Type A-1 Flare.



H-2 @ Sta. 427+12± to H-2 @ Sta. 427+87± Rt.
Remove and Dispose of 75 L.F. of Guardrail and Posts.
Install 75 L.F. of New W-Beam Guardrail and Posts with
Modified Type A-1 Flare. See Plan Sheet No. xx for Details.

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ORIGINAL PLAN	
NOTE BOOK	
N.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements

Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 30 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 I.B. @ Sta. 436+54± to H-2 @ Sta. 446+89±, Gore Rt.

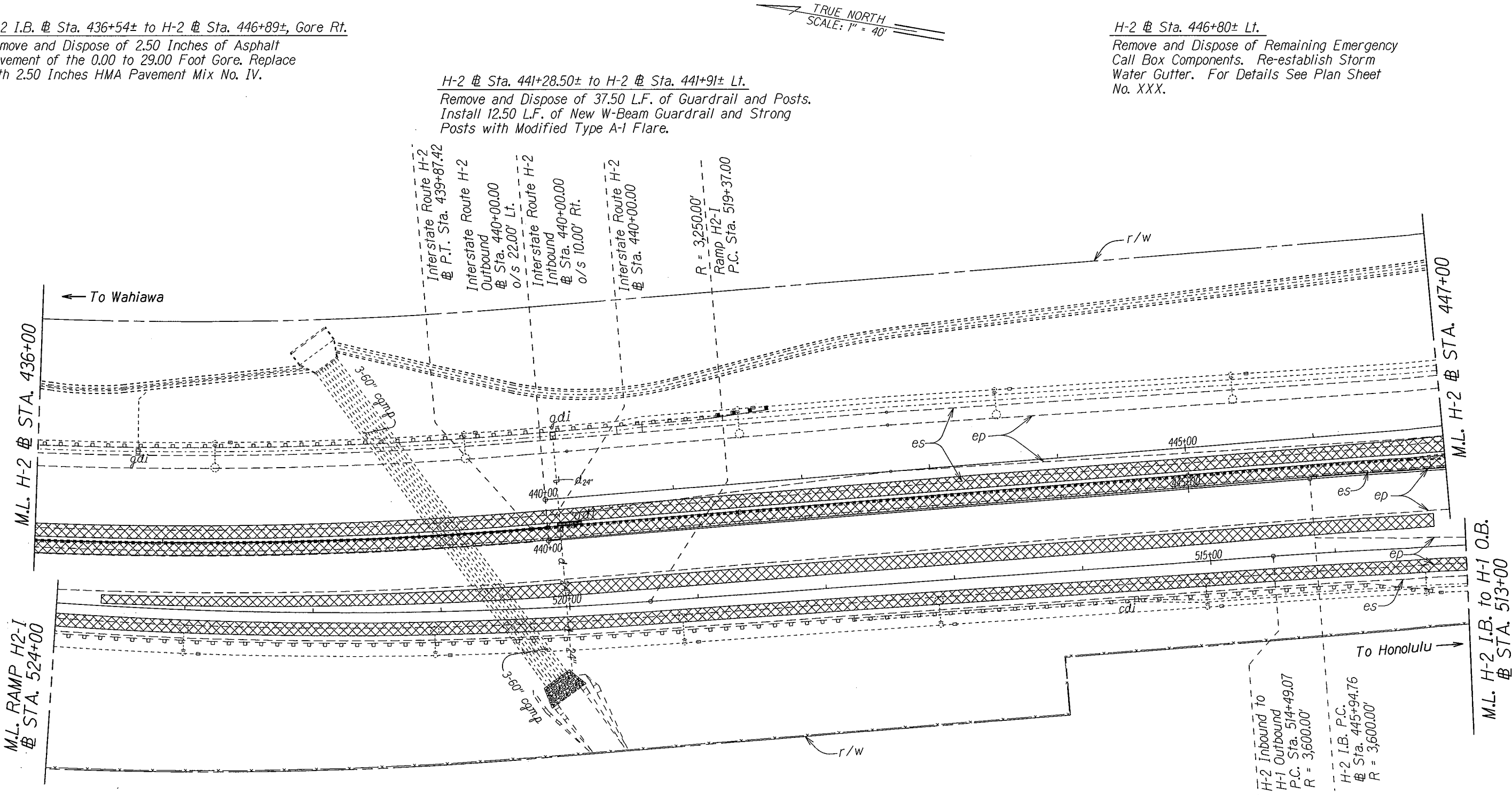
Remove and Dispose of 2.50 Inches of Asphalt Pavement of the 0.00 to 29.00 Foot Gore. Replace with 2.50 Inches HMA Pavement Mix No. IV.

H-2 @ Sta. 441+28.50± to H-2 @ Sta. 441+91± Lt.

Remove and Dispose of 37.50 L.F. of Guardrail and Posts. Install 12.50 L.F. of New W-Beam Guardrail and Strong Posts with Modified Type A-1 Flare.

H-2 @ Sta. 446+80± Lt.

Remove and Dispose of Remaining Emergency Call Box Components. Re-establish Storm Water Gutter. For Details See Plan Sheet No. XXX.



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40'
Date: Dec., 2014

H-2 O.B. @ Sta. 450+32± to H-2 @ Sta. 457+65±, Lt.

Remove and Dispose of 2.50 Inches of Asphalt Pavement of the 10.00 Foot Shoulder. Replace with 2.50 Inches HMA Pavement Mix No. IV.

H-2 Structure #13 @ Sta. 454+80± Rt. to H-2 O.B. @ Sta. 457+44±, Lt.

Remove and Dispose of 264.00 L.F. of Guardrail and Posts. Fill and Trowel Smooth Concrete Face on End Terminal. Additional Work Incidental to Removal of Guardrail.

Structure #14 @ Sta. 508+12± to Structure #14 @ Sta. 513+01±, Rt.

Remove and Dispose of 2.50 Inches of Asphalt Pavement of the 0.00 to 26.00 Foot Gore. Replace with 2.50 Inches HMA Pavement Mix No. IV.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

Structure #14 I.B. @ Sta. 505+80± Lt. to H-2 O.B. Sta. 448+72±, Median

Remove and Dispose of 2.50 Inches of Asphalt Pavement of the 12.00 Foot Shoulder and Storm Water Gutter. Replace with 2.50 Inches of HMA Pavement Mix No. IV. See Plan Sheet No. XXX for Storm Water Gutter Details.

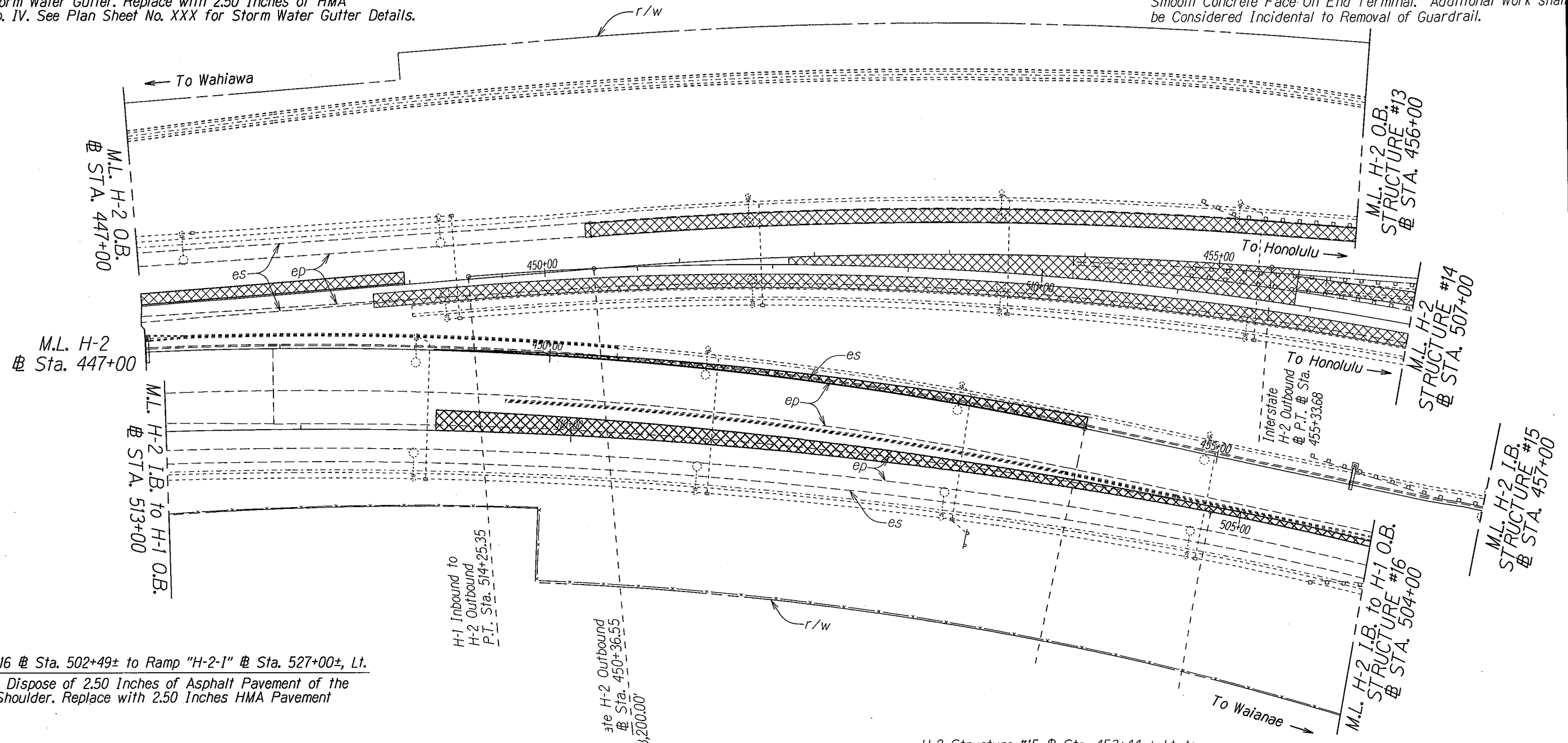
Structure #14 @ Sta. 505+80± to Structure #14 @ Sta. 508+12±, Rt.

Remove and Dispose of 2.50 Inches of Asphalt Pavemnt of the 10.00 Foot Shoulder. Replace with 2.50 Inches HMA Pavement Mix No. IV.

H-2 Structure #13 @ Sta. 454+80± to

H-2 Structure #13 @ Sta. 457+44± Lt.

Remove and Dispose of Existing Storm Gutter, and 264 L.F. of Guardrail and Posts. Install approximately 264 L.F. of New Storm Gutter. For Details See Sheet No. XX. Fill and Trowel Smooth Concrete Face On End Terminal. Additional Work shall be Considered Incidental to Removal of Guardrail.



Structure #16 @ Sta. 502+49± to Ramp "H-2-I" @ Sta. 527+00±, Lt.

Remove and Dispose of 2.50 Inches of Asphalt Pavement of the 10.00 Foot Shoulder. Replace with 2.50 Inches HMA Pavement Mix No. IV.

Structure #16 @ Sta. 502+70± to Ramp "H-2-I" @ Sta. 505+70±, Lt.

Remove and Dispose 6.00 Foot Concrete Storm Water Gutter. Install Concrete Gutter, See Plan Sheet No. XXX for Storm Water Gutter Details.

Structure #16 @ Sta. 502+49± to Ramp "H-2-I" @ Sta. 511+00±, Rt.

Remove and Dispose of 2.50 Inches of Asphalt Pavement of the 4.00 to 15.00 Foot Shoulder. Replace with 2.50 Inches HMA Pavement Mix No. IV.

H-2 I.B. @ Sta. 449+14± to H-2 I.B. @ Sta. 454+00, Rt.

Remove and Dispose of 2.50 Inches of Asphalt Pavement of the 0.00 to 8.00 Foot Off Ramp Median Shoulder. Replace with 2.50 Inches HMA Pavement Mix No. IV.

H-2 Structure #15 @ Sta. 453+44 ± Lt. to

H-2 @ Sta. 457+66± Lt.

Remove and Dispose of 179 L.F. of Guardrail and Post. Install 375 L.F. of New W-Beam Guardrail and Strong Posts with Modified Type A-1 Flare. See Plan Sheet No. XXX for End Post and Thrie Beam Details for Site C-1.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLANS	
INTERSTATE ROUTE H-2 and MOANALUA FREEWAY	
Guardrail and Shoulder Improvements	
Federal-Aid Project No. IM-STP-0300(106)	
Scale: 1" = 40'	Date: Dec., 2014
SHEET No. 32 OF 33 SHEETS	

Date: Jan. 20, 2016

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SURVEY PLOTTED BY	DATE
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TRACED BY	
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NOTE BOOK	
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

H-2 Structure #15 @ Sta. 453+44± Lt. To H-2 I.B. @ Sta. 457+66± Lt.
 Remove and Dispose of 179 L.F. of Guardrail and Posts. Install 375 L.F. of New W-beam Guardrail and Strong Posts with Modified Type A-1 Flare. Replace 120 L.F. of Concrete storm Water Gutter. See Plan Sht. No. XX for End Post and Thrie Beam Details for Site C1. See Plan Sht. No. XX for Storm Water Gutter Details.

H-2 Structure #13 @ Sta. 455+60± to @ Sta. 457+60±, Gore.
 Remove and Dispose of 2.50 Inches of Asphalt Pavement of the 4 Foot Shoulder. Replace with 2.50 Inches HMA Pavement Mix No. IV.

H-2 Structure #13 @ Sta. 463+10± Lt. to @ Sta. 463+60±, Lt.
 Remove and Reinstall 25.00 L.F. of Thrie Beam Guardrail. See Plan Sheet. No. XX for End Post Details for Site DD2.

H-2 O.B. @ Sta. 465+55± to @ Sta. 466+80± Lt.
 Remove and Dispose of 175 L.F. of Guardrail and Posts. Install 175 L.F. of New Double Sided W-Beam Guardrail and Strong Posts with W-Beam Rounded Trailing End.

Structure #14 @ Sta. 505+84± to @ Sta. 506+69 Lt.
 Remove and Dispose of 85 L.F. of Guardrail and Posts. Fill and Trowel Smooth Concrete Face on End Terminal. Additional Work Incidental to Removal of Guardrail.

H-2 O.B. Sta. 466+80± to @ Sta. 465+55±, Lt.
 Remove and Dispose of 175.00 L.F. of Guardrail and Posts. Install 175.00 L.F. of New Double Sided W-Beam Guardrail and Strong Posts with W-Beam Rounded Trailing End.

H-2 Structure #14 @ Sta. 500+27± to @ Sta. 500+52± Lt.
 Remove and Reinstall of 25 L.F. of Thrie Beam. See Plan Sht. No. XX for End Post Details for Site A-2.

H-2 Structure #15 @ Sta. 465+62± to @ Sta. 467.47± Lt.
 Remove and Dispose of 185 L.F. of Guardrail and Posts. Install 25 L.F. of Thrie Beam with W-Beam Transition and Connect to New Guardrail.

M.L. H-2 I.B. STRUCTURE #15 @ STA. 457+00

M.L. H-2 I.B. to H-1 O.B. STRUCTURE #16 @ STA. 504+00

M.L. H-2 I.B. to H-1 I.B. STRUCTURE #15 to #5 @ STA. 467+50

M.L. H-2 O.B. to STRUCTURE #13 to #6 @ STA. 467+50

H-2 Structure #14 @ Sta. 497+89± to @ Sta. 500+52± Rt.
 Remove and dispose of 263 L.F. of Guardrail and Posts. Install 225 L.F. of New W-Beam and Strong Posts with Modified Type A-1 Flare and 18.75 L.F. Nested Long Span at Location of Gate. See Plan Sht. No. XX for End Post Details for Site A-1.

Structure #16 @ Sta. 502+70± Lt. to H-2 IB @ Sta. 504+70± Lt.
 Remove and Dispose 187.5 L.F. of Guardrail and Posts. Install 175 L.F. of New W-Beam Guardrail and Strong Posts with Modified Type A-1 Flare. See Plan Sht. No. XX for End Post and Thrie Beam Details for Site C2.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

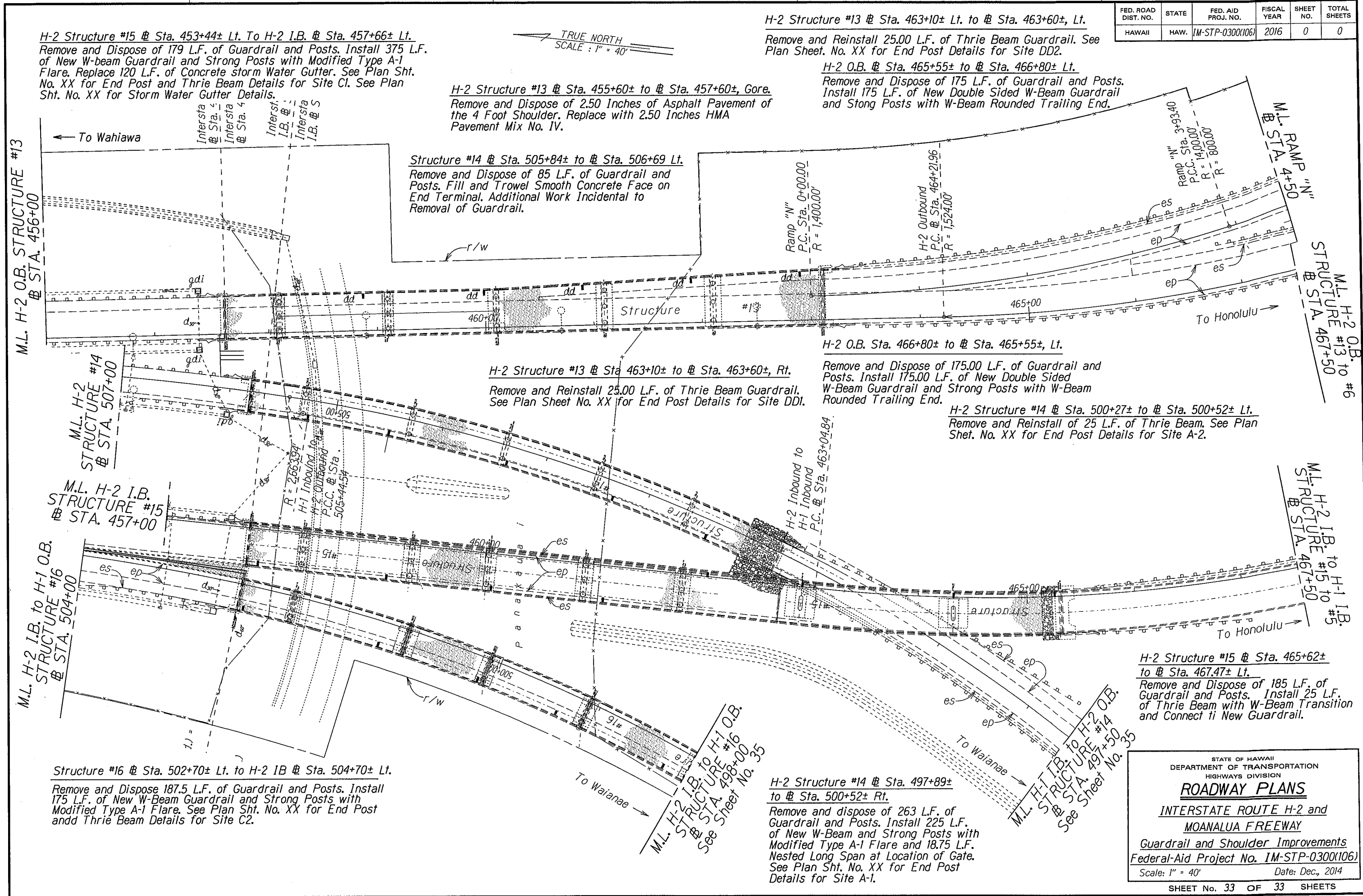
ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
PLANNED BY	
APPROVED BY	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

Ramp "B"
M.L. # STA. 2+75

H-2 Structure #6 @ Sta. 473+00± to @ Sta. 473+25± Lt.
Remove and Reinstall 25 L.F. of Thrie Beam Guardrail.
See Plan Sheet No. xx for End Post Details for Site B1.

H-2 Structure #6 @ Sta. 473+24± to @ Sta. 476+78± Rt.
Remove and Dispose of 186 L.F. of Guardrail and Posts. Install 350 L.F. of New W-Beam Guardrail and Strong Posts with Fleet 350 End Treatment. See Plan Sheet No. XX for End Post and Thrie Beam Details for Site B2.

H-2 Structure #6 @ Sta. 475+58± to @ Sta. 476+48± Lt.
Remove and Dispose of 110.25 L.F. of Guardrail and Posts. 85.25 L.F. of New W-Beam Guardrail and Strong Posts with Modified Type A-1 Flare. See Plan Sheet XX for Details. Replace Stormwater Swale as Directed, See Plan Sheet XX for Details

M.L. # STA. 498+00
see sheet 33

M.L. # STA. 497+50
see sheet 33

H-2 Inbound to H-1 Outbound
P.O.C. @ Sta. 494+50
End Ramp "M"
P.C.C. Sta. 15+33.91

Ramp "M"
P.C. Sta. 12+77.99
R = 828.32'

H-2 Structure #5 @ Sta. 470+50± to @ Sta. 471+00± Lt.
Remove and Dispose of 50 L.F. of Guardrail and Posts. Install 50 L.F. of New Thrie Beam and Strong Posts. See Plan Sheet No. XX for End Post Details for Site CC1. See Plan Sheet No. xx for Stormwater Spillway Details.

H-2 Structure #5 @ Sta. 465+62± to @ Sta. 470+77± Rt.
Remove and Dispose of 171 L.F. of Guardrail and Posts. Install 465 L.F. of New W-Beam Guardrail and Strong Posts. See Plans Sheet No. XX for End Post and Thrie Beam Details for Site CC2.

R = 1,516.00'
H-1 Inbound to H-2 Outbound
P.C.C. @ Sta. 493+50.00
R = 1,516.00'

Ramp "M"
M.L. # STA. 11+00
H-1 to H-2 Ramp
M.L. # STA. 490+00

H-1 I.B. to H-2 O.B.
M.L. # STA. 491+00

M.L. # STA. 491+00
H-1 O.B.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

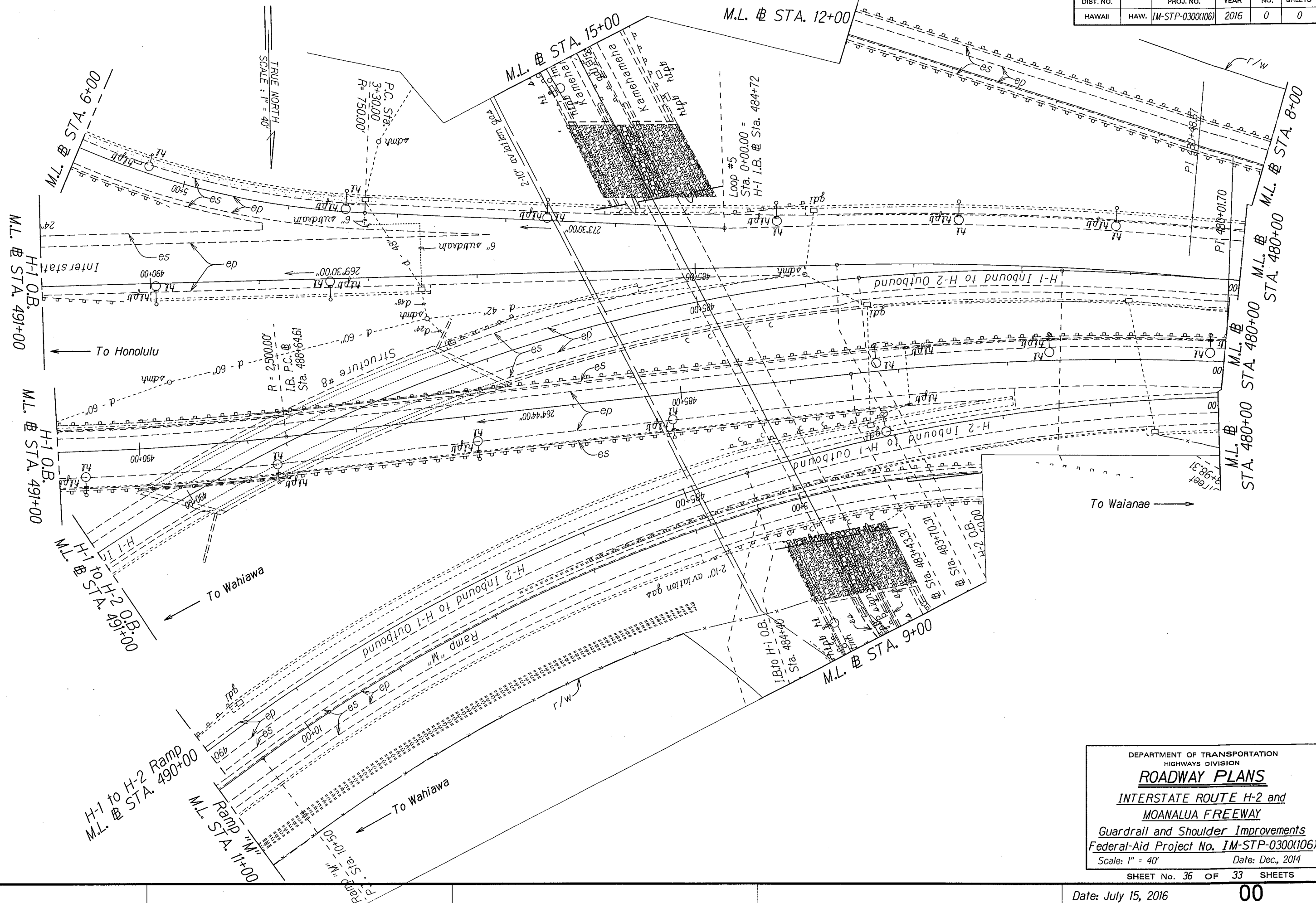
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 35 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

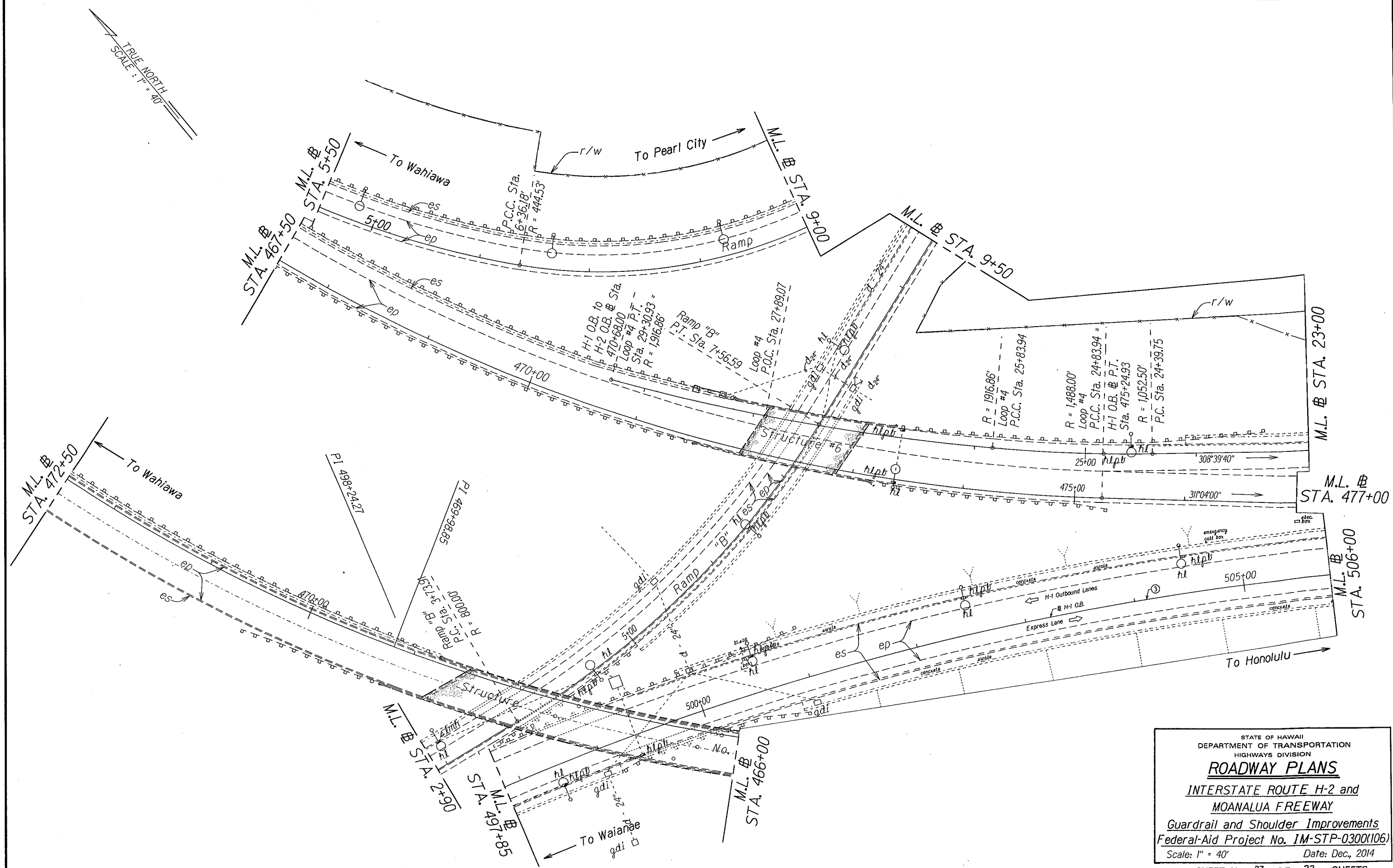


ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	" _____
	TRACED BY _____	" _____
	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40' Date: Dec., 2014
SHEET No. 36 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAW.	IM-STP-0300(106)	2016	0	0

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NO. _____	DRAWN BY	_____
_____	CHECKED BY	_____
_____	QUANTITIES BY	_____
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and MOANALUA FREEWAY

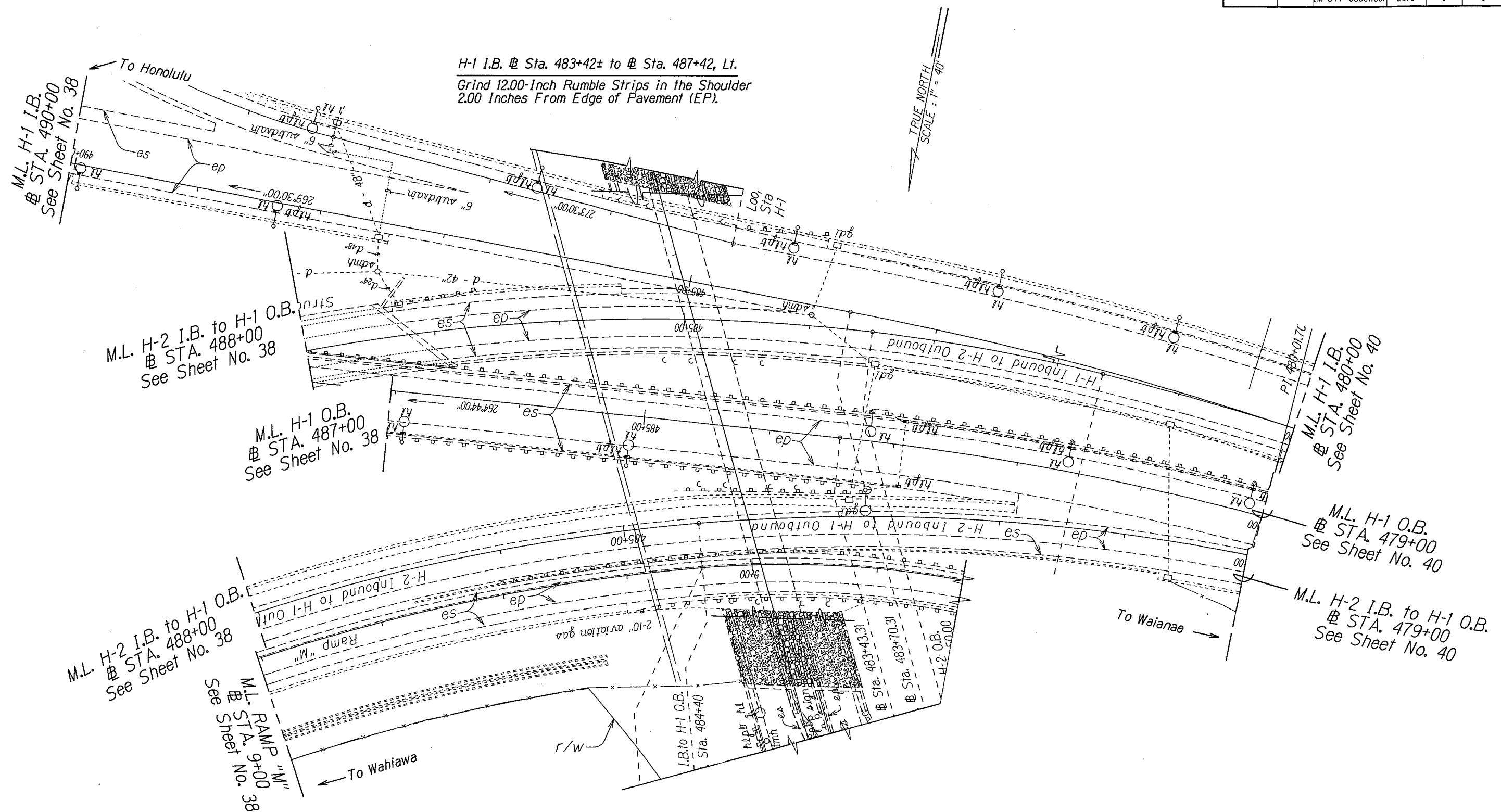
Guardrail and Shoulder Improvements

Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 37 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



Ramp "H-2-1" @ Sta. 485+50± to 486+00, Rt.
Remove and Dispose of 50.00 L.F. of Guardrail
and Posts. Stall New Fleet 350.

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	•
	TRACED BY _____	•
	DESIGNED BY _____	•
	QUANTITIES BY _____	•
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

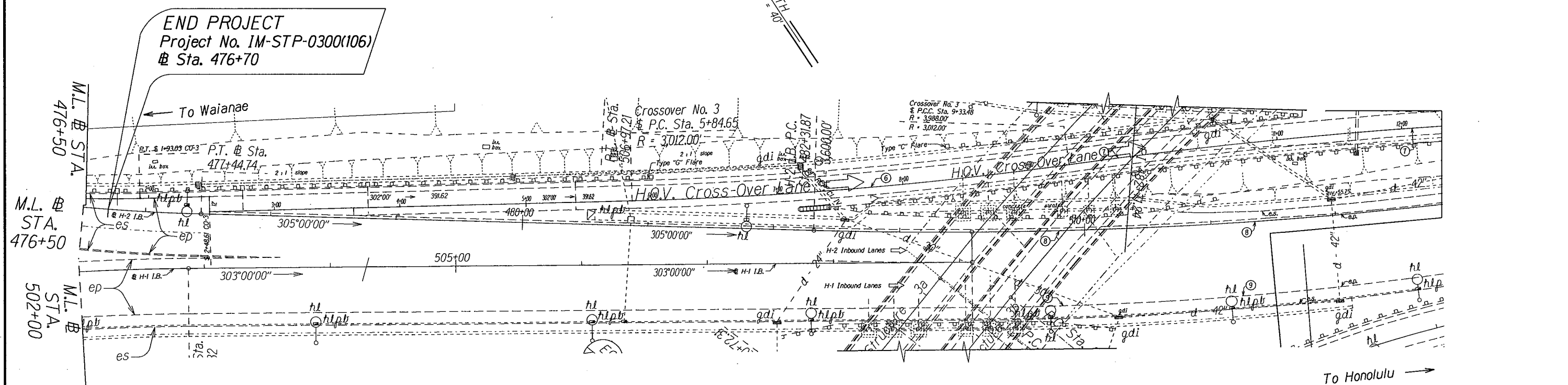
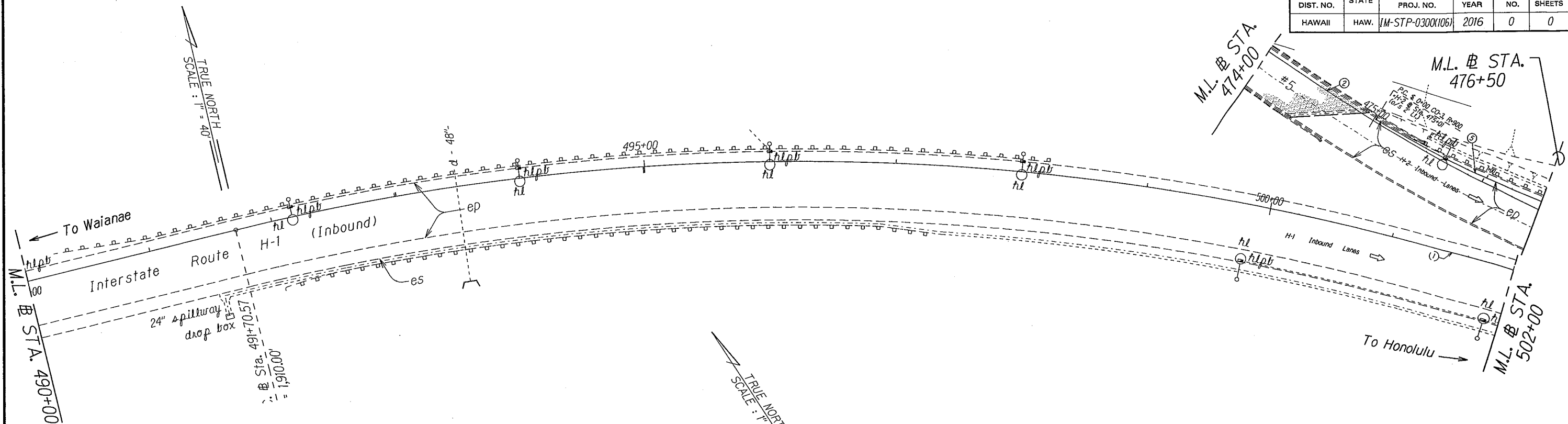
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 39 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



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DESIGNED BY	
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

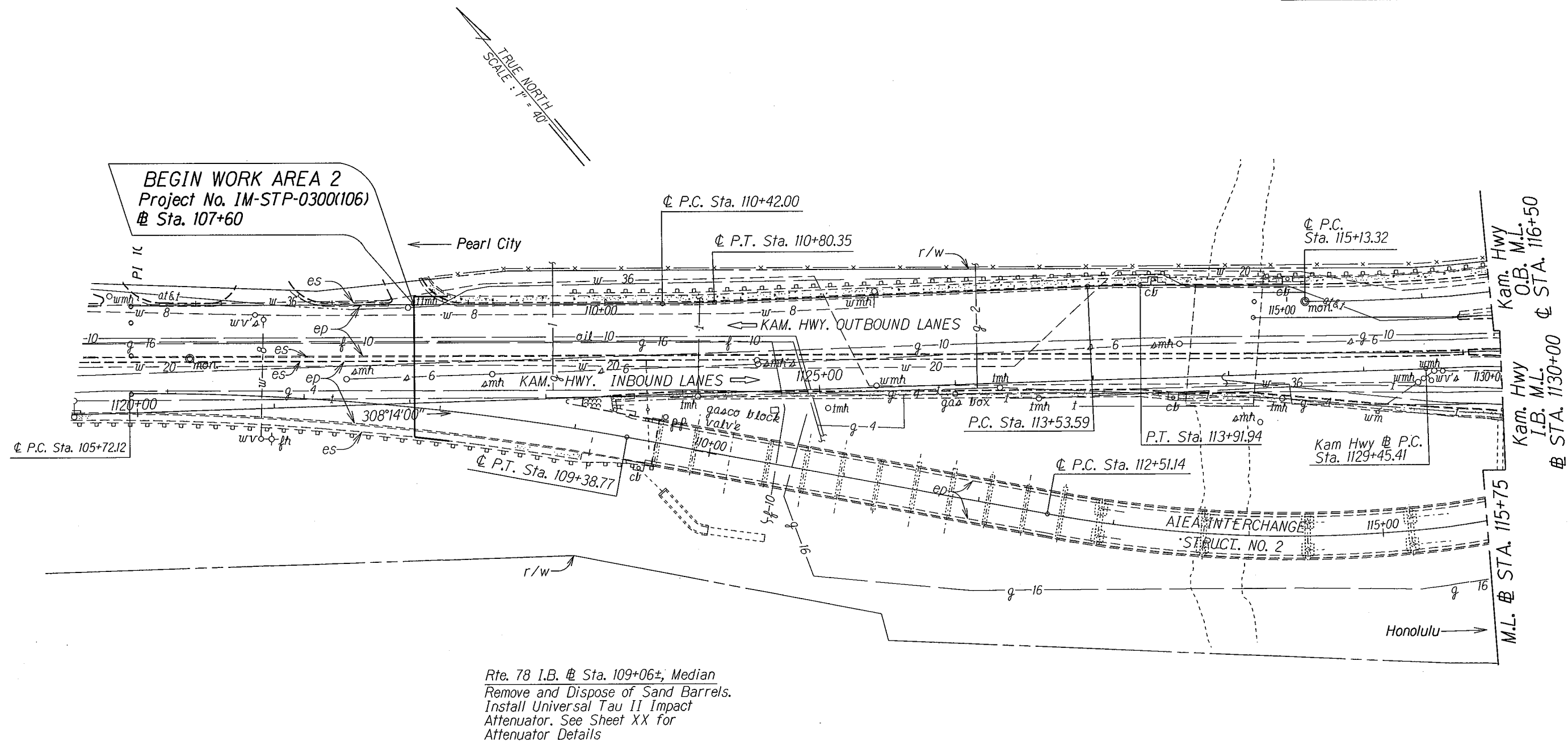
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 40 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40' Date: Dec., 2014
SHEET No. 41 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

Rte. 78 O.B. @ Sta. 125+12± to Rte. 78 @ 127+41±, Median

Remove and Dispose of 229.00 Feet of Guardrail and Posts. Install 200.00 Feet of Thrie Beam and Strong Posts at Curb Face and Connect to Tau II Impact Attenuator Approach End And Type G Trailing End.

Rte. 78 I.B. @ Sta. 125+12± to Rte. 78 @ Sta. 126+64±, Rt.

Install 125.00 L.F. of Thrie Beam and Strong Posts with Modified Type A-I Flare on Approach and Type G Flare on Trailing End.

② CURVE DATA

Δ = 00°00'00"
R = 0,000
T = 0,000
C = 0,000
Lc = 0,000
S. E. = 0.00 ft/ft

② CURVE DATA

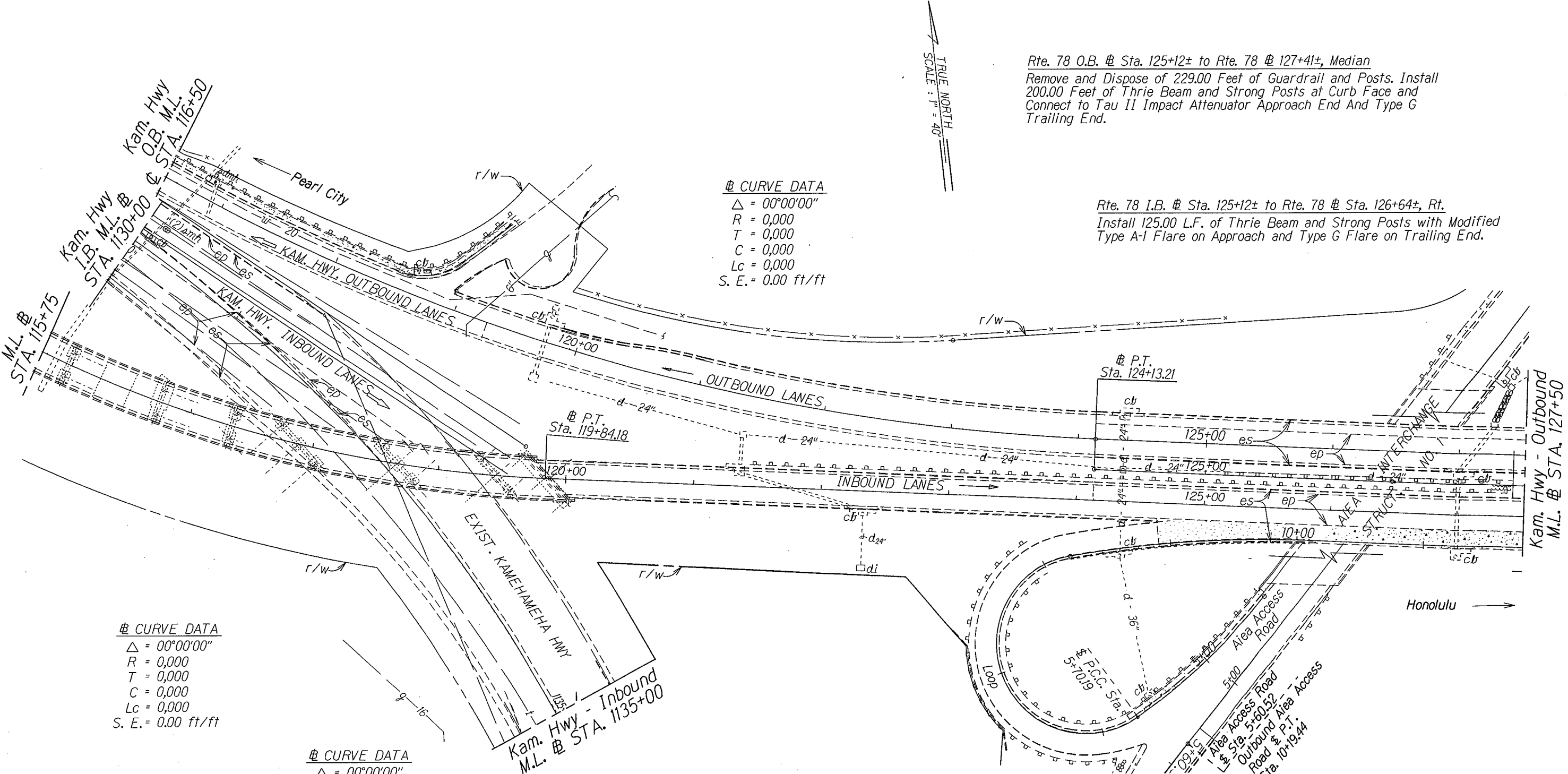
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T = 0,000
C = 0,000
Lc = 0,000
S. E. = 0.00 ft/ft

② CURVE DATA

Δ = 00°00'00"
R = 0,000
T = 0,000
C = 0,000
Lc = 0,000
S. E. = 0.00 ft/ft

Rte. 78 I.B. @ Sta. 119+78± to Rte. 78 @ Sta. 127+41±, Median

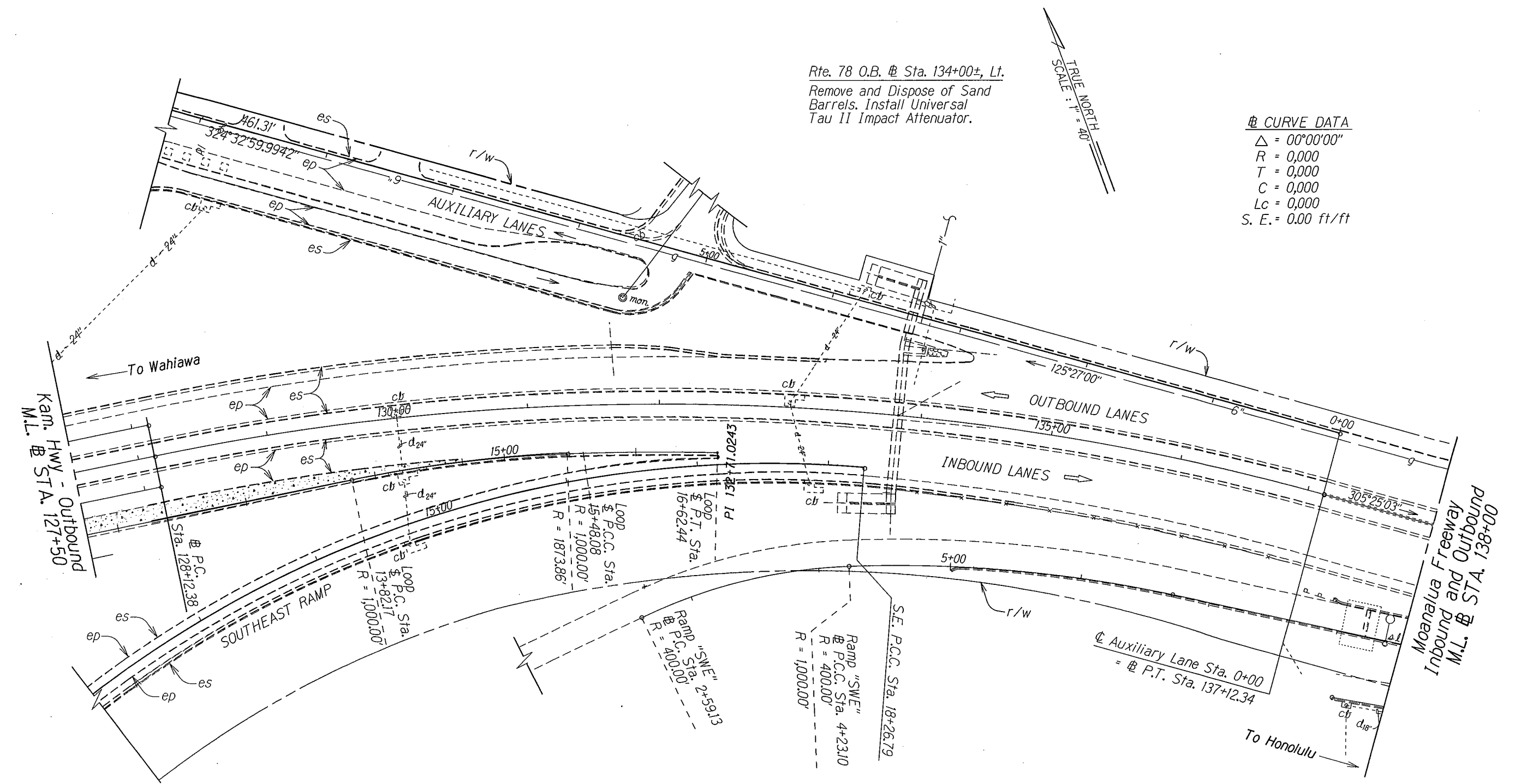
Remove and Dispose of 763.00 Feet of Guardrail and Posts. Install 725.50 Feet of Thrie Beam and Strong Posts with Tau II Impact Attenuator on Trailing End.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY
Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)
Scale: 1" = 40' Date: Dec, 2014

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
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CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

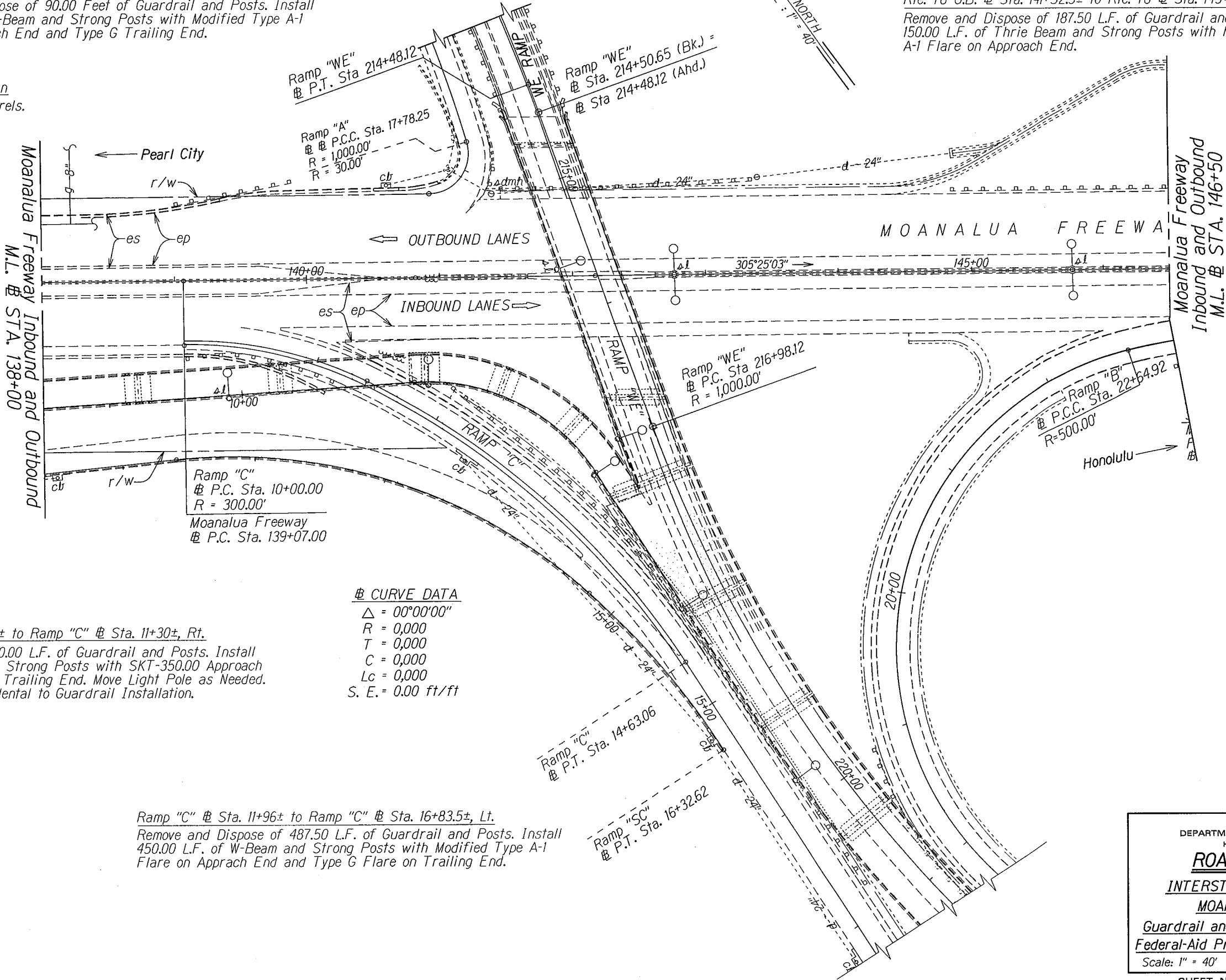
Scale: 1" = 40' Date: Dec., 2014

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0

Rte. 78 O.B. @ Sta. 139+00± to Rte. 78 @ Sta. 140+75±, Lt.
 Remove and Dispose of 90.00 Feet of Guardrail and Posts. Install 150.00 Feet of W-Beam and Strong Posts with Modified Type A-1 Flare on Approach End and Type G Trailing End.

Rte. 78 I.B. @ Sta. 140+78±, Median
 Remove and Dispose of Sand Barrels.
 Install Universal Tau II Impact Attenuator.

Rte. 78 O.B. @ Sta. 141+52.5± to Rte. 78 @ Sta. 143+40±, Lt.
 Remove and Dispose of 187.50 L.F. of Guardrail and Posts. Install 150.00 L.F. of Thrie Beam and Strong Posts with Modified Type A-1 Flare on Approach End.



Rte. 78 I.B. @ Sta. 138+00± to Ramp "C" @ Sta. 11+30±, Rt.
 Remove and Dispose of 130.00 L.F. of Guardrail and Posts. Install 175.50 L.F. of W-Beam and Strong Posts with SKT-350.00 Approach End and Type G Flare on Trailing End. Move Light Pole as Needed. Moving Light Pole is Incidental to Guardrail Installation.

@ CURVE DATA	
Δ	= 00°00'00"
R	= 0,000
T	= 0,000
C	= 0,000
Lc	= 0,000
S. E.	= 0.00 ft/ft

Ramp "C" @ Sta. 11+96± to Ramp "C" @ Sta. 16+83.5±, Lt.
 Remove and Dispose of 487.50 L.F. of Guardrail and Posts. Install 450.00 L.F. of W-Beam and Strong Posts with Modified Type A-1 Flare on Approach End and Type G Flare on Trailing End.

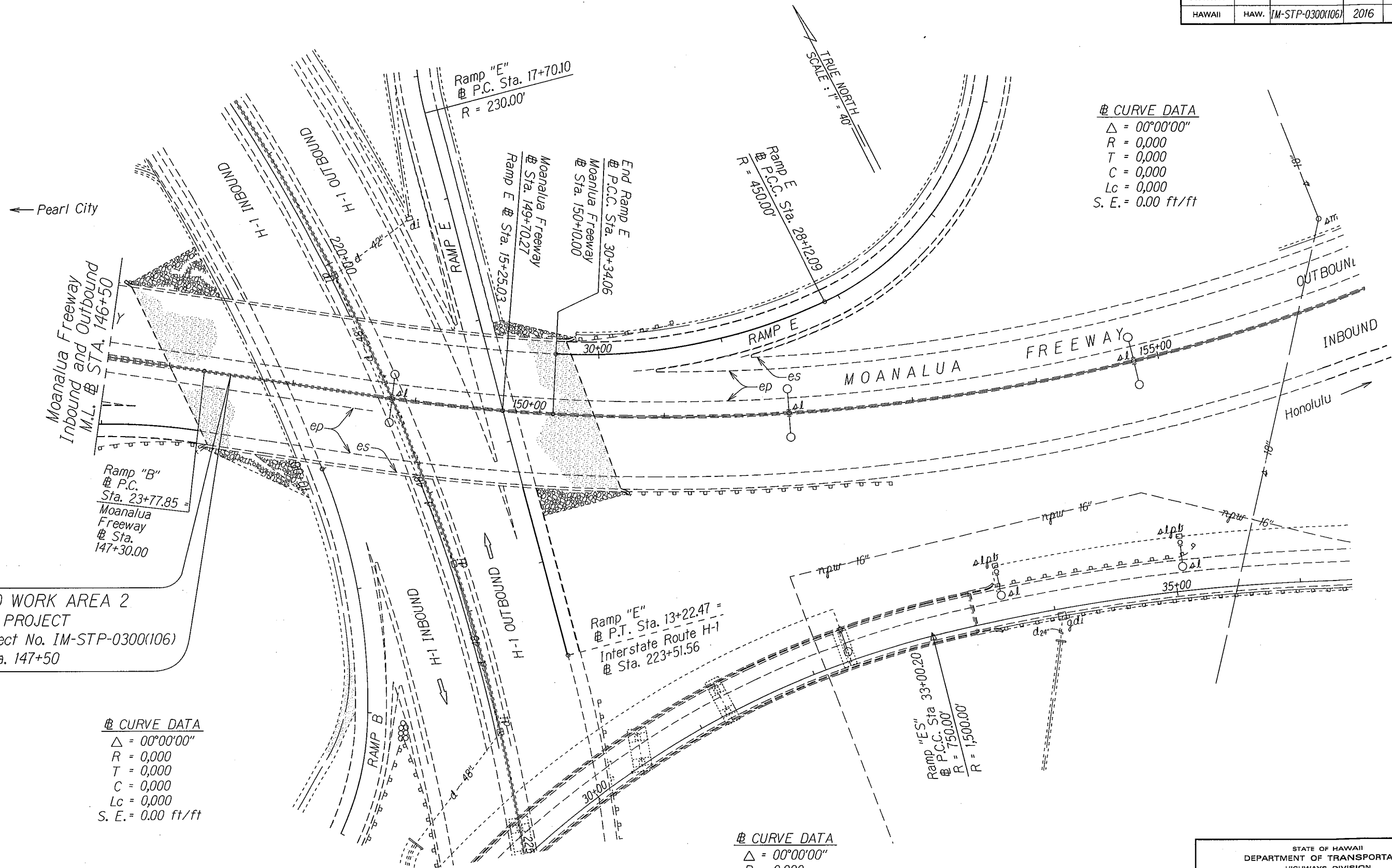
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ORIGINAL PLAN	
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLANS
 INTERSTATE ROUTE H-2 and
 MOANALUA FREEWAY
 Guardrail and Shoulder Improvements
 Federal-Aid Project No. IM-STP-0300(106)
 Scale: 1" = 40' Date: Dec., 2014

SHEET No. 44 OF 45 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-STP-0300(106)	2016	0	0



CURVE DATA
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 $T = 0,000$
 $C = 0,000$
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CURVE DATA
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 $C = 0,000$
 $Lc = 0,000$
 $S. E. = 0.00 \text{ ft/ft}$

CURVE DATA
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 $T = 0,000$
 $C = 0,000$
 $Lc = 0,000$
 $S. E. = 0.00 \text{ ft/ft}$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

INTERSTATE ROUTE H-2 and
MOANALUA FREEWAY

Guardrail and Shoulder Improvements
Federal-Aid Project No. IM-STP-0300(106)

Scale: 1" = 40' Date: Dec., 2014

SHEET No. 45 OF 45 SHEETS

SURVEY PLOTTED BY	DATE
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NOTE BOOK	
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