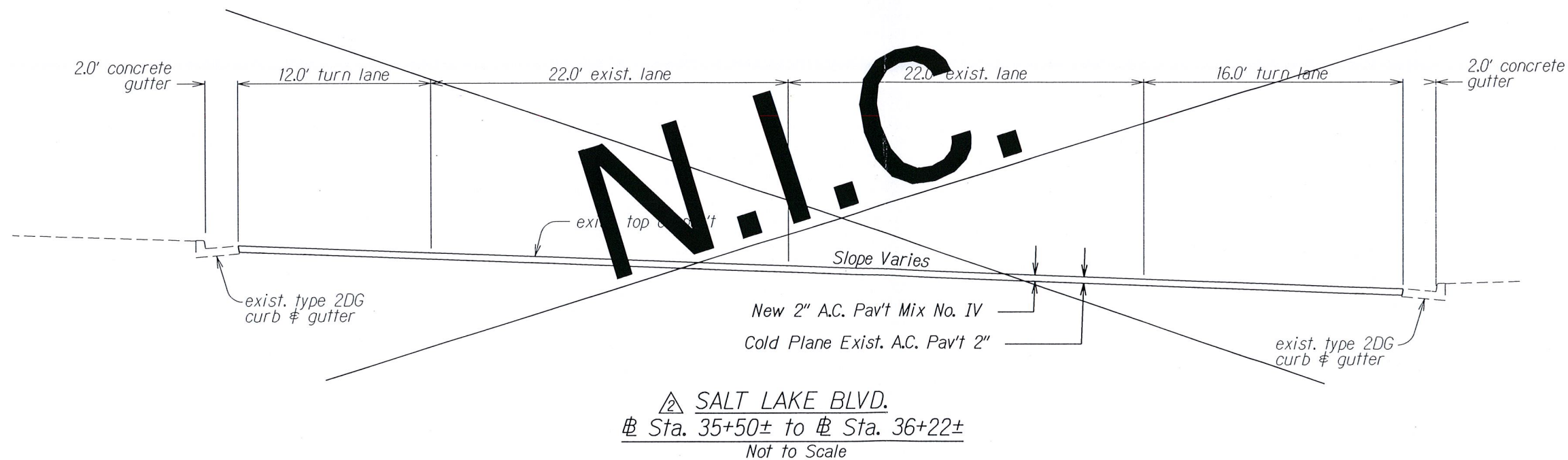
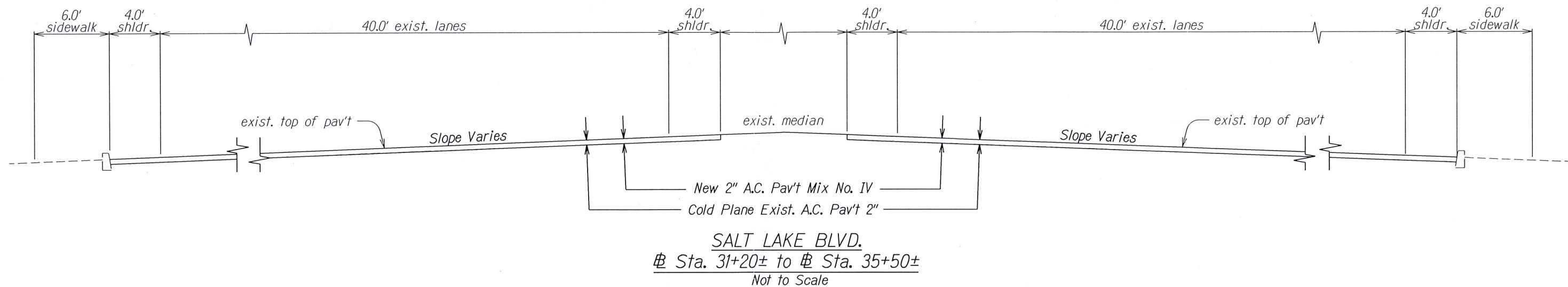
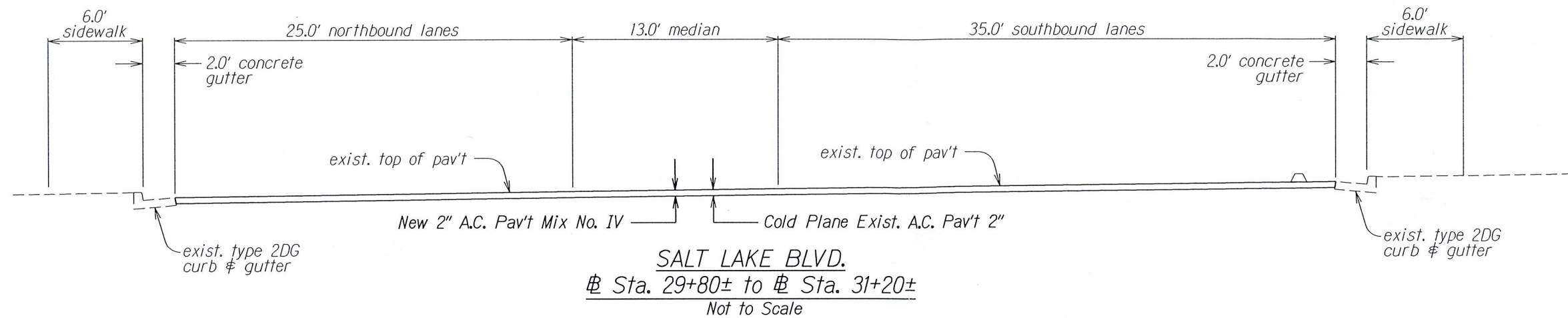


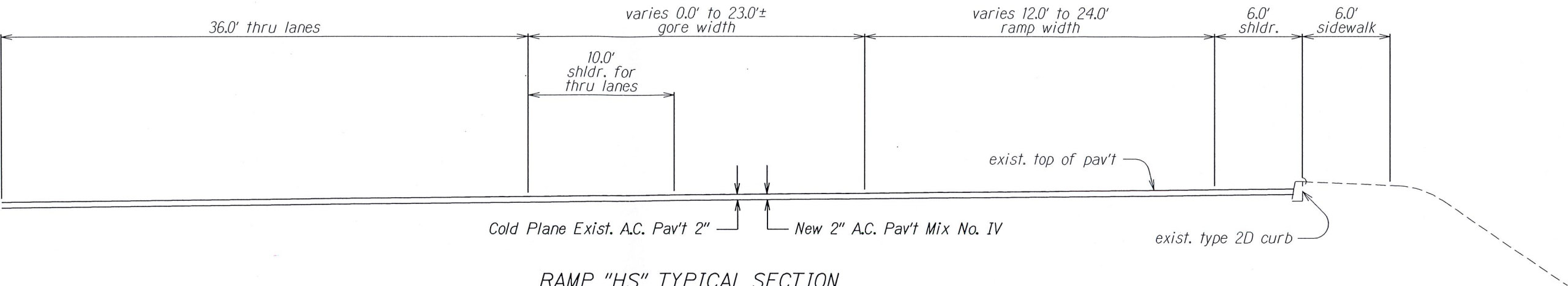
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-724(002)	2012	ADD. 18	81



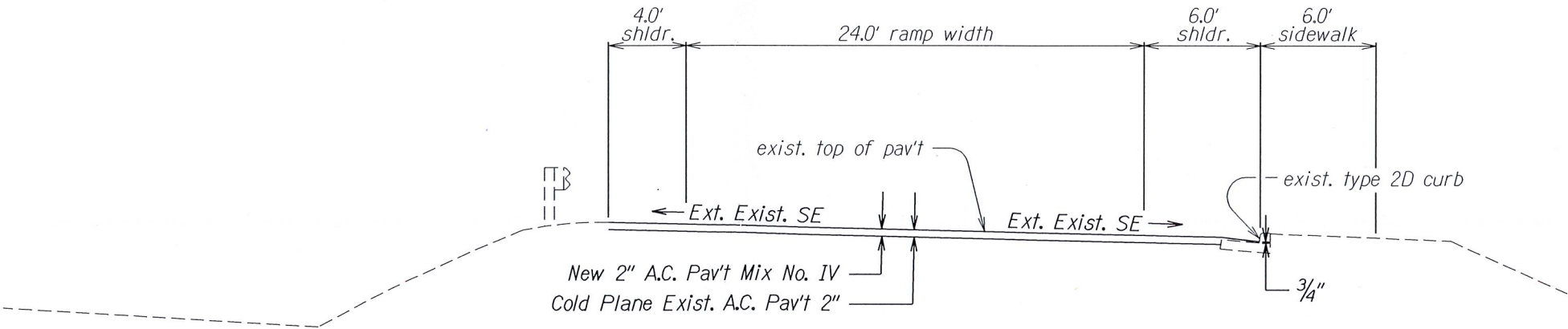
6/20/12	2 Deleted Typical Section, Sta. 35+50± to Sta. 36+22±.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYPICAL SECTION	
KAHUAPAANI STREET RESURFACING Moanalua Freeway to Salt Lake Boulevard Federal Aid Project No. STP-724(002)	
Not to Scale	Date: May, 2012
SHEET No. 4 OF 7 SHEETS	

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
24and1504	
N. dgn	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-724(002)	2012	ADD. 21	81



RAMP "HS" TYPICAL SECTION
RAMP "HS" Sta. 2+99.01 to Sta. 7+00±
 Not to Scale



△ RAMP "HS" TYPICAL SECTION
RAMP "HS" Sta. 7+00± to Sta. 9+00
 Not to Scale

6/20/12	△ Revised paving limit on Ramp "HS".
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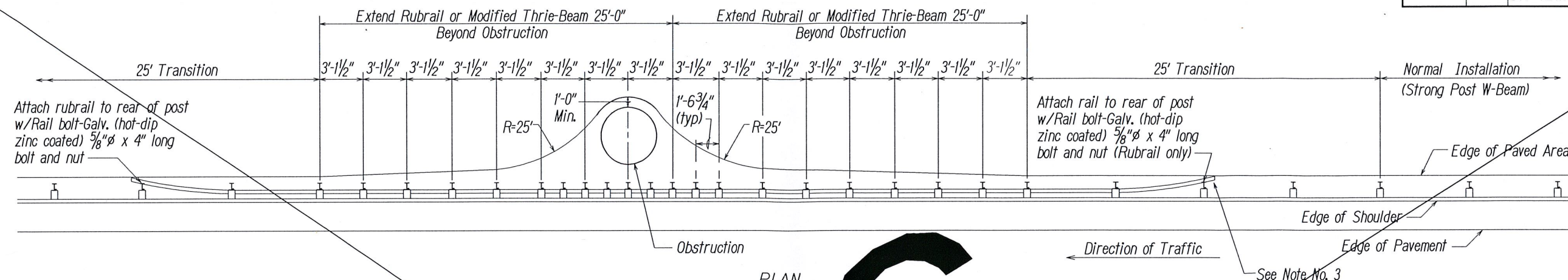
DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

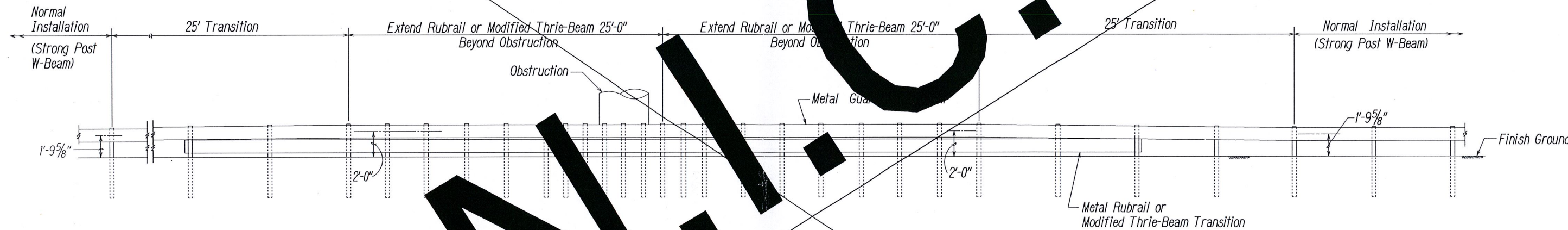
TYPICAL SECTION
KAHUAPAANI STREET RESURFACING
Moanalua Freeway to Salt Lake Boulevard
Federal Aid Project No. STP-724(002)

Not to Scale
 Date: May, 2012

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY	DRAWN BY	
NOTE BOOK	QUANTITIES BY	
2/24/12/15/07	CHECKED BY	
N. 4/10/12		



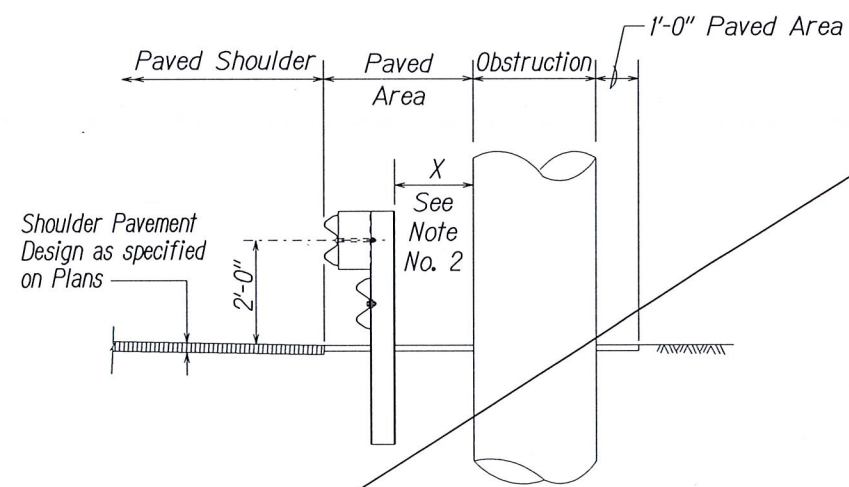
PLAN



ELEVATION

NOTES:

1. All Guardrail and Concrete Barrier Designs at Obstructions shall be approved by the Engineer.
2. If $X < 2'-0"$, Concrete Barrier or special guardrail design;
 $2'-0" \leq X < 3'-0"$, Strong Post Rubrail or Strong Post Thrie-Beam with reduced post spacing;
 $3'-0" \leq X$, Strong Post W-Beam with 6'-3" post spacing (Normal Installation).
3. If a pedestrian walkway or bicycle route is located behind the guardrail, the Engineer should install the Modified Thrie-Beam System. The Rubrail termini may become a hazard to pedestrians & bicyclists.



TYPICAL SECTION AT OBSTRUCTION

DETAIL OF GUARDRAIL INSTALLATION AT OBSTRUCTION

6/19/12	Work shown will not be included in contract.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL DETAILS
(AT OBSTRUCTION)

KAHUPAANI STREET RESURFACING
Moanalua Fwy. to Salt Lake Blvd.
Federal-Aid Project No. STP-7241(002)

Scale: NTS Date: May, 2012

SHEET No. 1 OF 1 SHEETS

ORIGINAL PLAN
DESIGNED BY
NOTE BOOK
QUANTITIES BY
CHECKED BY

8/2/10 tdruby/guardrail/165rev.dgn (standard plan TE-53-09/01/07 & TE-54-11/03/09)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-724(002)	2012	ADD.35	81

TRUE NORTH
SCALE: 1" = 40'

Kahuapaani Street @ Sta. 22+41± Rt. to Sta. 23+45± Rt.
Remove 104± L.F. of Existing Guardrail and Post. Install 104± L.F. of New Type 3 Guardrail and Post. Trailing End Install Type G Modified. Approach End, Connect to Thrie Beam Transition. For Details, See Plan Sheet Nos. 23 - 29.

BEGIN PROJECT
Fed. Aid Project No. STP-724(002)
@ Sta. 22+31±

Reconstruction of Bridge Approach. For Details, See Plan Sheet 14.

Kahuapaani Street @ Sta. 22+41± Lt. to Sta. 26+12± Lt.
Remove 371± L.F. of Existing Guardrail and Post. Install 350.5± L.F. of New Type 3 Guardrail and Post. Trailing End, Install Type G Modified. For Detail, See Plan Sheet Nos. 23 - 29.

Ramp H @ Sta. 10+52± Rt.
Reconstructed Type "D" Catch Basin
For Details, See Plan Sheet No. 33.

Install Inertial Barrier System.
For Details, See Plan Sheet No. 22.

Remove and Replace Existing Curb Ramp.
With a Type Combination Modified. For Details, See Sheet No. 12.

Install Inertial Barrier System.
For Details, See Plan Sheet No. 22.

Ramp J @ Sta. 11+70± Rt to Sta. 19+70± Rt
Remove 737± of Existing Guardrail and Post. Install 800± L.F. New Type 3 Guardrail and Post. Trailing End Connect to Thrie Beam Transition Approach End, Install ET-Plus. For Details, See Plan Sheet Nos. 23 - 29 & 32.

Ramp I @ Sta. 16+80± Rt. to Sta. 18+80± Rt.
Install 200± L.F. of New Type 3 Guardrail and Post Approach End and Trailing End, Install Type G Modified, For Details, See Plan Sheet Nos. 23 - 29.

Ramp J @ Sta. 17+00± Lt. to Sta. 19+10± Lt.
Install 210± L.F. of New Type 3 Guardrail and Post Approach End and Trailing End, Install Type G Modified, For Details, See Plan Sheet Nos. 23 - 29.

6/19/12 Corrected Notes.

DATE REVISION

M.L. @ STA. 27+00
See Plan Sheet 16

RAMP L M.L. @ STA. 12+00

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLANS
KAHUAPAANI STREET RESURFACING
Moanalua Fwy. to Salt Lake Blvd.
Federal Aid Project No. STP-724(002)

Scale: 1" = 40' Date: May, 2012

SHEET No. 1 OF 6 SHEETS

ADD.35

DATE	6/19/12
SURVEY PLOTTED BY	X
DESIGNED BY	X
CHECKED BY	X
ORIGINAL PLAN	10/20/2010
NOTE BOOK	2/10/2011
REVISION	6/19/12

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-724(002)	2012	ADD.36	81

△ Ramp L @ Sta. 12+75± Lt. to @ Sta. 17+22± Lt.
 Remove 447± L.F. of Existing Guardrail and Post.
 Install 447± L.F. of New Type 3 Guardrail and Post.
 Trailing End, Install Type G Modified. For Details,
 See Plan Sheet Nos. 23 - 29.

△ Ramp L @ Sta. 10+24± Rt. to
 Ramp L @ Sta. 12+90± Rt.
 Remove 238± Lin. Ft. of Existing Guardrail
 and Post. Install 226± Lin. Ft. of New Type 3
 Guardrail and Post. Approach End. Connect
 to Thrie Beam Transition Trailing End.
 Install Type G Modified. For Details, See Plan
 Sheet Nos. 23 - 29.

Kahuapaani St. @ Sta. 25+40± Rt. to
 @ Sta. 27+75± Rt.
 Install 235± Lin. Ft. of New Type 3
 Guardrail and Post. Approach End.
 Install ET-Plus Trailing End, Install
 Type G Modified. For Details, See
 Plan Sheet Nos. 23 - 29 & 32.

Kahuapaani St. @ Sta. 33+10± Lt. to @ Sta. 33+85± Lt.
 Remove 100± Lin. Ft. of Existing Guardrail and Post.
 Install 75± Lin. Ft. of New Type 3 Guardrail and Post.
 Approach End, Install Modified "A-1" Flare Trailing
 End. Connect to Thrie Beam Transition. For
 Details, See Plan Sheet Nos. 23 - 31.

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	20090202
DESIGNED BY	003
QUANTITIES BY	20090202
CHECKED BY	NZ

6/19/12	△ Corrected notes and added notes.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION ROADWAY PLANS KAHUAPAANI STREET RESURFACING Moanalua Fwy. to Salt Lake Blvd. Federal Aid Project No. STP-724(002) Scale: 1" = 40' Date: May, 2012 SHEET No. 2 OF 6 SHEETS	

ADD.36