

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD.3	81

1. The project includes cold planning and resurfacing of existing pavement; reconstructing weakened pavement areas and shoulders; constructing new curb, curb and gutter, sidewalk, and curb ramps; upgrading drainage facilities; adjusting manhole and valve box frame and cover; installing guardrail, loop detectors, pavement markings, signing and striping.

2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.

3. The Contractor's attention is directed to the following Sections: Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone Traffic Control.

4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.

5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data, but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Toning shall be considered incidental to the various contract items and will not be paid for seperately. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.

6. The Contractor shall notify, the Department of Transportation Services, Public Transit Division at 768-8396 and Oahu Transit Services, Inc. (bus operations: 848-4578 or 852-6016 and para-transit operations: 454-5041 or 454-5020) of the scope of work, location, proposed closure of Kaneohe Bay Drive, traffic lane, sidewalk, or bus stop and duration of project at least two weeks prior to construction.

7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.

8. The Contractor shall indemnify and be solely responsible for the protection of adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.

9. Earth swale shall be graded to drain. This work shall be considered incidental to various contract items.

10. Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to asphalt concrete and will not be paid for separately.

11. The Contractor shall clean and remove any accumulation of aggregates along the roadside within 10 feet of the edge of pavement. This includes any slurry or waste generated by the cutting operations. This work shall be considered incidental to bulk of work or the various contract items and will not be paid for separately.

12. Removal and disposal of existing guardrail, curb, curbramp, driveway, asphalt concrete pavement, sidewalk and any debris shall be considered incidental to their respective bid items.

13. All saw cutting work including slurry or waste generated by cutting operation shall be considered incidental to Roadway Excavation or Asphalt Concrete or Various Contract Items or their respective bid items.

14. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.

15. The top of the Hot Mix Asphalt Base Course prior to placement of the new A.C. Pavement, Mix No. IV shall comply with the ten-foot straight edge requirement. The variation of the surface from a straight edge with two contacts with the surface, shall not exceed 3/16."

16. Concrete sidewalk shall be reinforced with 6x6 W1.4xW1.4 welded wire fabric.

17. Dressing of sidewalk shall consist of clearing and grubbing, grading, reshaping and compacting with suitable material the area adjacent to the improvement, matching existing grass type species on site as shown on the plans and/or as directed by the Engineer and shall be considered incidental to Sidewalk.

18. All curbing angle points within the curb ramps shall be rounded with R=6."

19. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times; shall coordinate with adjacent property owners including possible unavoidable closure of access to/from businesses/homes and notify users and adjacent property owners 5 working days in advance prior to reconstruction/paving the driveways/roadways. This work shall be considered incidental to curb ramps, or sidewalk, or the various contract items and will not be paid for separately.

20. Provide smooth transition where new sidewalk construction meets the existing grade or sidewalk. Transition shall not be steeper than 2% cross and longitudinal slopes and not less 6.0 feet long or as specified on the plans. This work shall be considered incidental to curb ramps, or sidewalk, or the various contract items and will not be paid for separately.

21. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designed in writing and approved by the Engineer. If use of location is approved by the engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the Oahu District Office at telephone no. 831-6712.

22. The exact locations and limits or areas to be reconstructed and cold planed shall be determined in the field by the Engineer.

23. All cold planed and excess materials not used for this project shall become the property of the Contractor. If disposed of, it shall be in accordance with the Environmental Protection Agency's policies and guidelines. This work shall be considered incidental to the various contract items and will not be paid for separately.

24. Construct asphalt concrete surface at new guardrail installation according to Guardrail Details and Notes plan sheet.

25. All work specified in the contract but not listed separately in the Proposal Schedule, shall be considered incidental to other various contract items and shall not be paid for separately.

26. The Contractor shall maintain all street lights within the project limits at no cost to the State. All street lights shall be operating within 24 hours of discovery of a malfunction.

27. Dressing of shoulder shall be considered incidental to the various contract items.

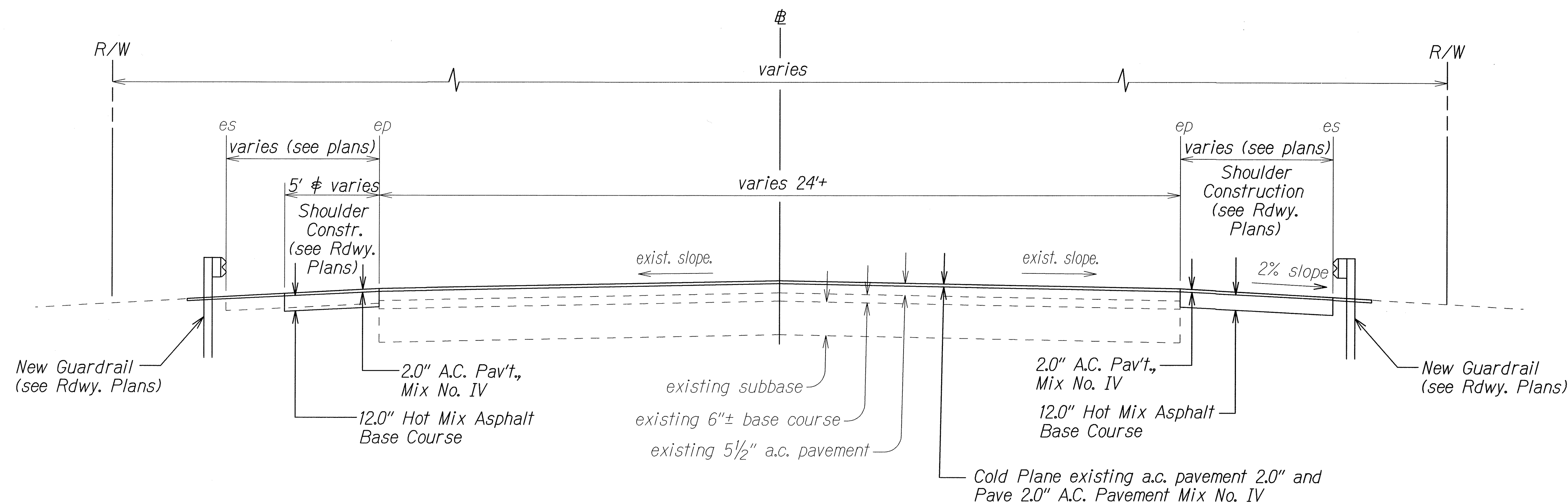
28. The Contractor shall coordinate with property owners about trimming existing tree and/or shrubberies fronting their properties. This work shall be paid for under Maintenance of Existing Landscape Areas item.

29. During non-working hours, the trenches on all streets shall be covered using 1 inch thick steel plates with non-skid surfaces and all lanes maintained open for traffic.

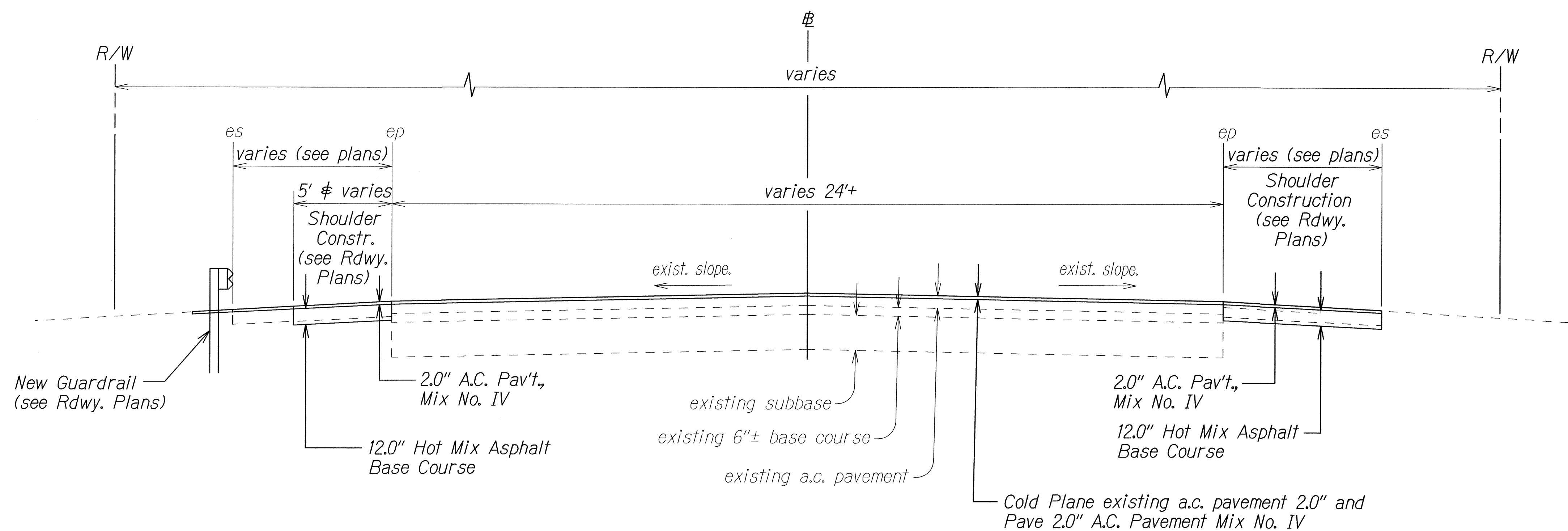
30. New Curb, Type 6 shall be painted white. This work shall be considered incidental to Curb, Type 6 item.

31. Additional Detectable Warning Mats shall be considered incidental to Curb Ramp items.
- 6/8/12 2 Revised general note 15
- DATE REVISION
- | | |
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| STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION | |
| GENERAL NOTES | |
| KANEOHE BAY DRIVE REHABILITATION | |
| Kamehameha Highway to Nanamoana Street | |
| Project No. 65AB-01-04M | |
| Date: May, 2012 | |
- SHEET No. 1 OF 2 SHEETS
- ADD.3
- | | | |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DESIGNED BY | |
| QUANTITIES BY | CHECKED BY | |

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD. 8	81



△ TYPICAL SECTION
CL STA. 35+27.70± TO CL STA. 36+20±
 Scale: 1/4"=1'-0"



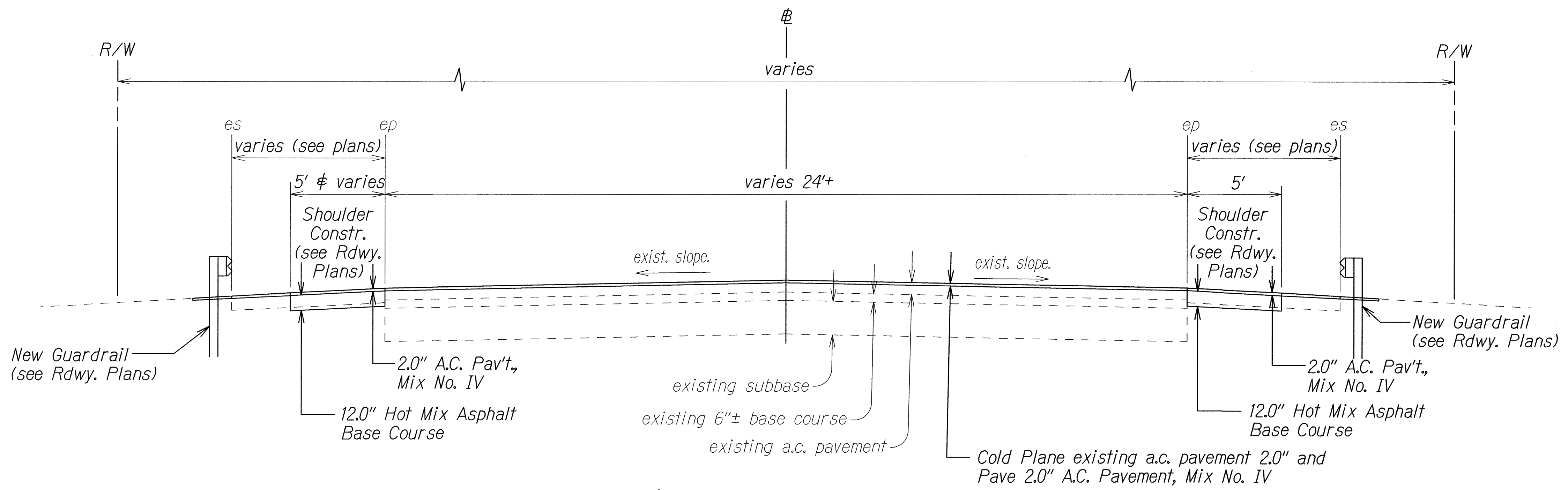
△ TYPICAL SECTION
CL STA. 36+20± TO CL STA. 46+00±
CL STA. 86+20± TO CL STA. 91+00±
 Scale: 1/4"=1'-0"

ORIGINAL PLAN	DATE
NOTE BOOK	DESIGNED BY
QUANTITIES BY	CHECKED BY
N. 5/10/2012	

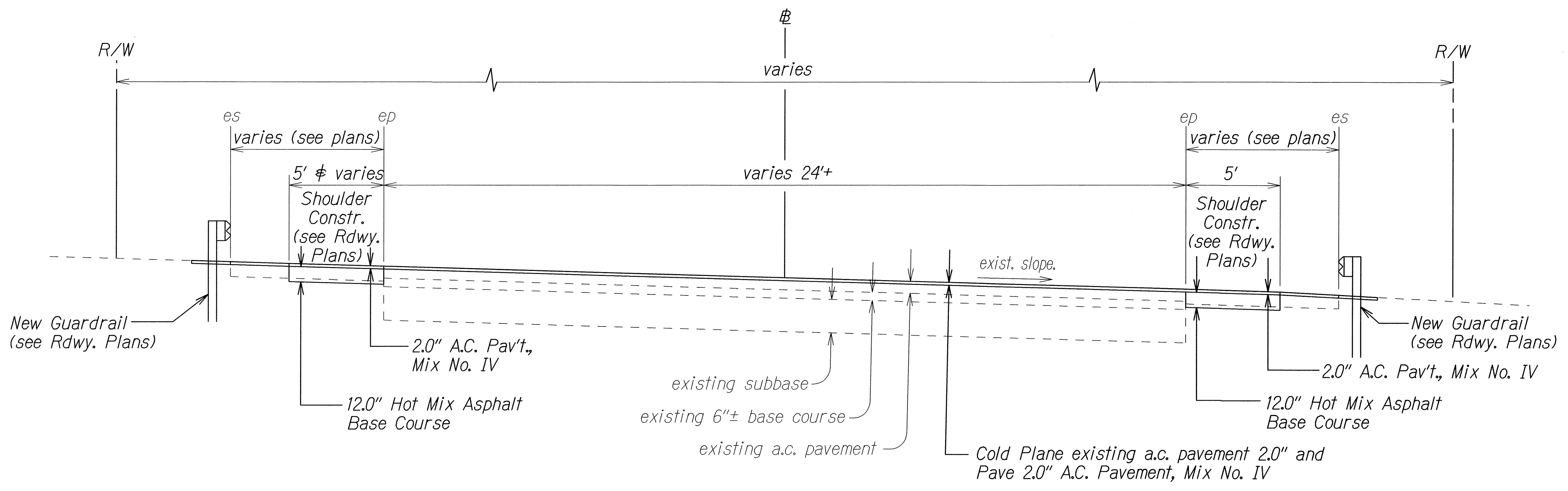
6/8/12	△ Revised pavement structure.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TYPICAL SECTION KANEHOE BAY DRIVE REHABILITATION Kamehameha Highway to Nanamoana Street Project No. 65AB-01-04M Scale: 1/4" = 1'-0" Date: May, 2012	
SHEET No. 2 OF 5 SHEETS	

ADD. 8

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD. 9	81



TYPICAL SECTION
 STA. 46+00± to STA. 59+00±
 STA. 67+00± to STA. 68+00±
 STA. 77+50± to STA. 82+00±
 STA. 0+40± to STA. 1+60±
 Scale: 1/4" = 1'-0"

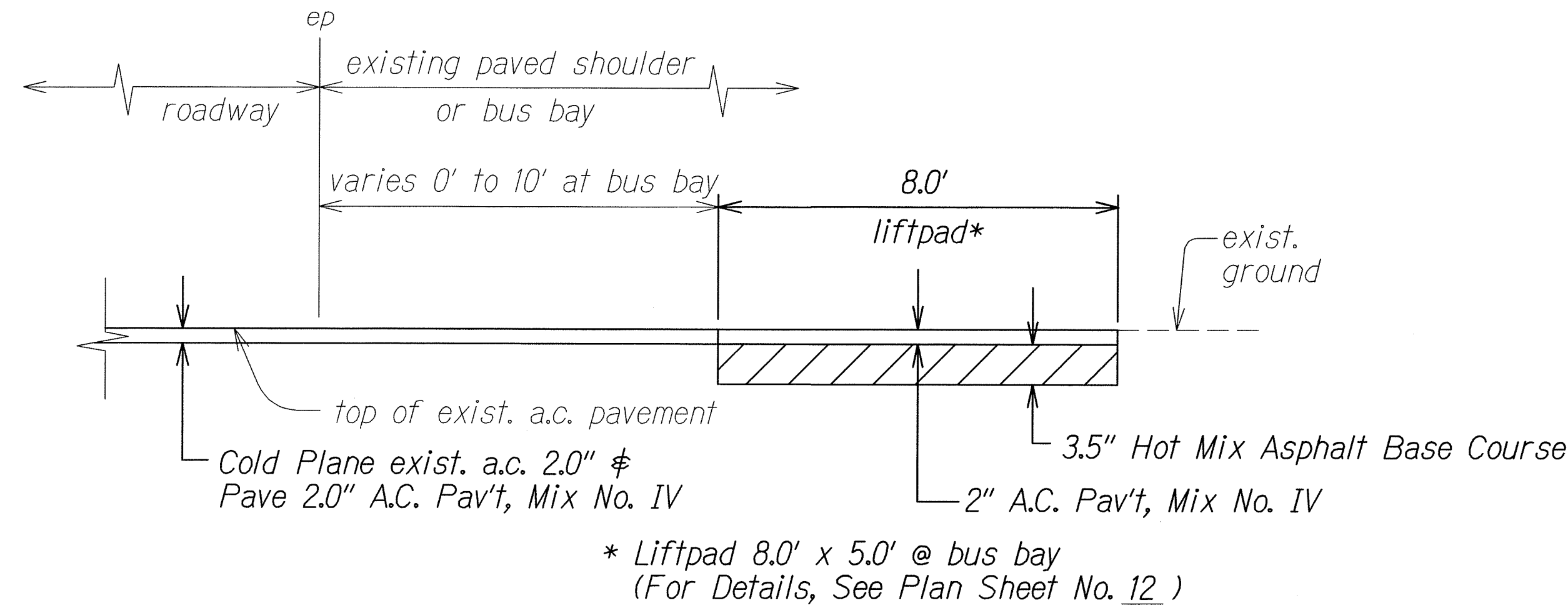


TYPICAL SUPERELEVATED SECTION
 STA. 59+00± TO STA. 67+00±
 STA. 68+00± TO STA. 77+50±
 STA. 82+00± TO STA. 86+20±
 Scale: 1/4" = 1'-0"

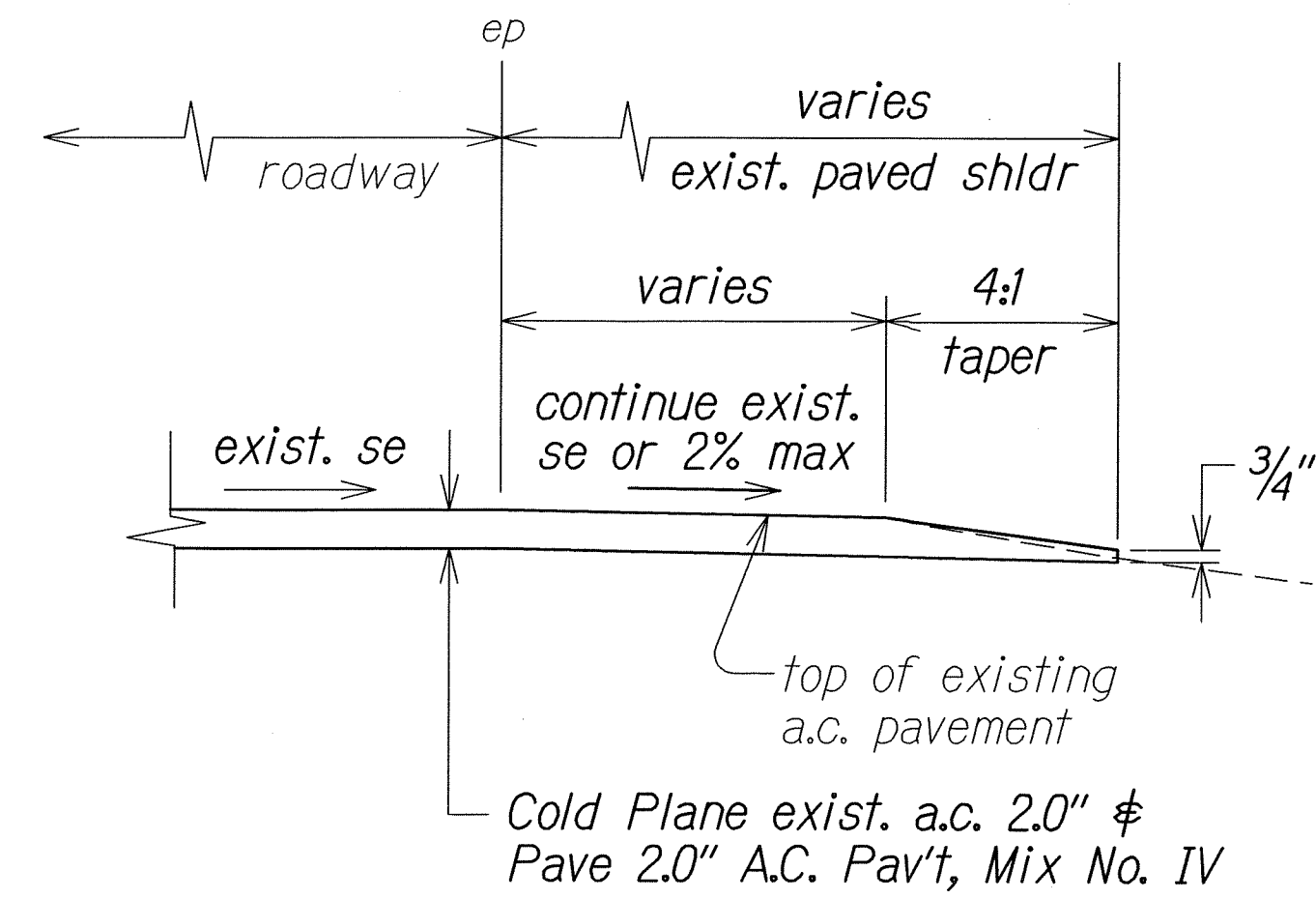
DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
PLANNED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
5/20/2012	_____

6/8/12	Revised pavement structure.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYPICAL SECTION	
KANEHOE BAY DRIVE REHABILITATION	
Kamehameha Highway to Nanamoana Street	
Project No. 65AB-01-04M	
Scale: 1/4" = 1'-0"	Date: May, 2012
SHEET No. 3 OF 5 SHEETS	

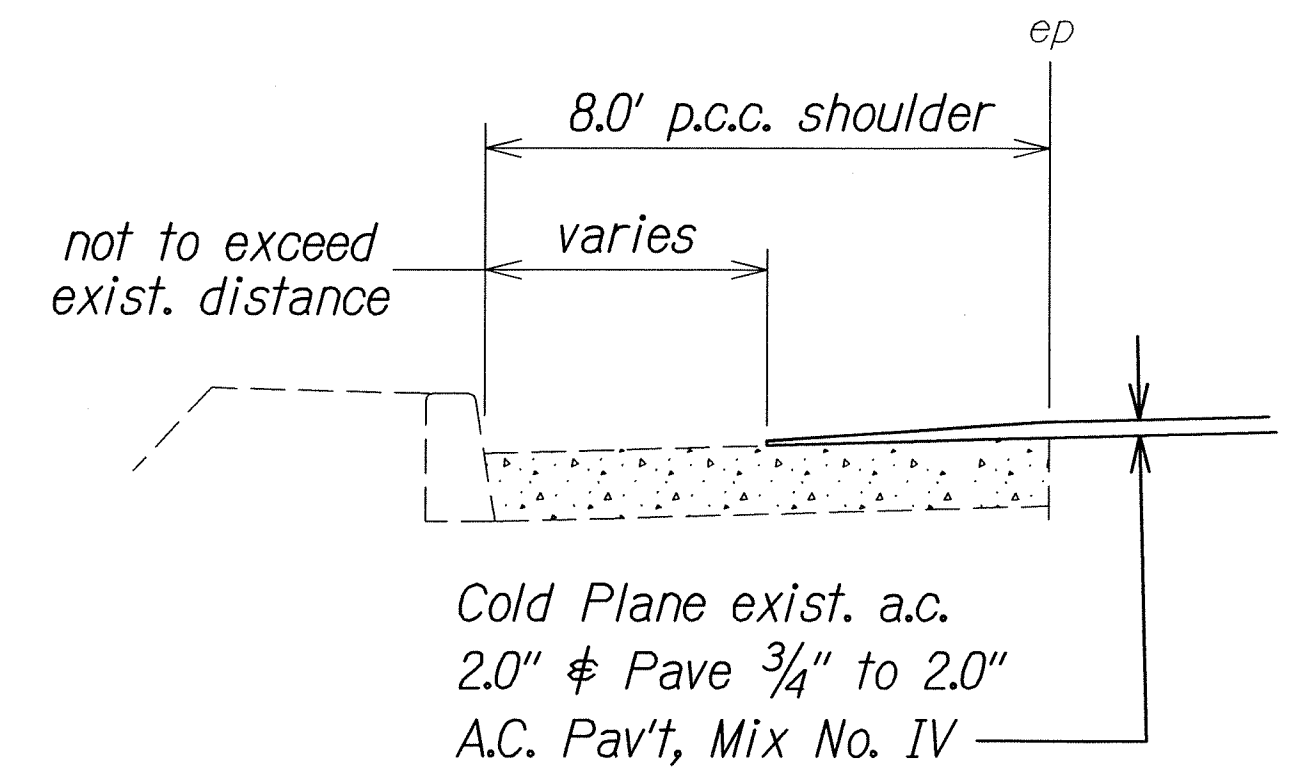
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD.11	81



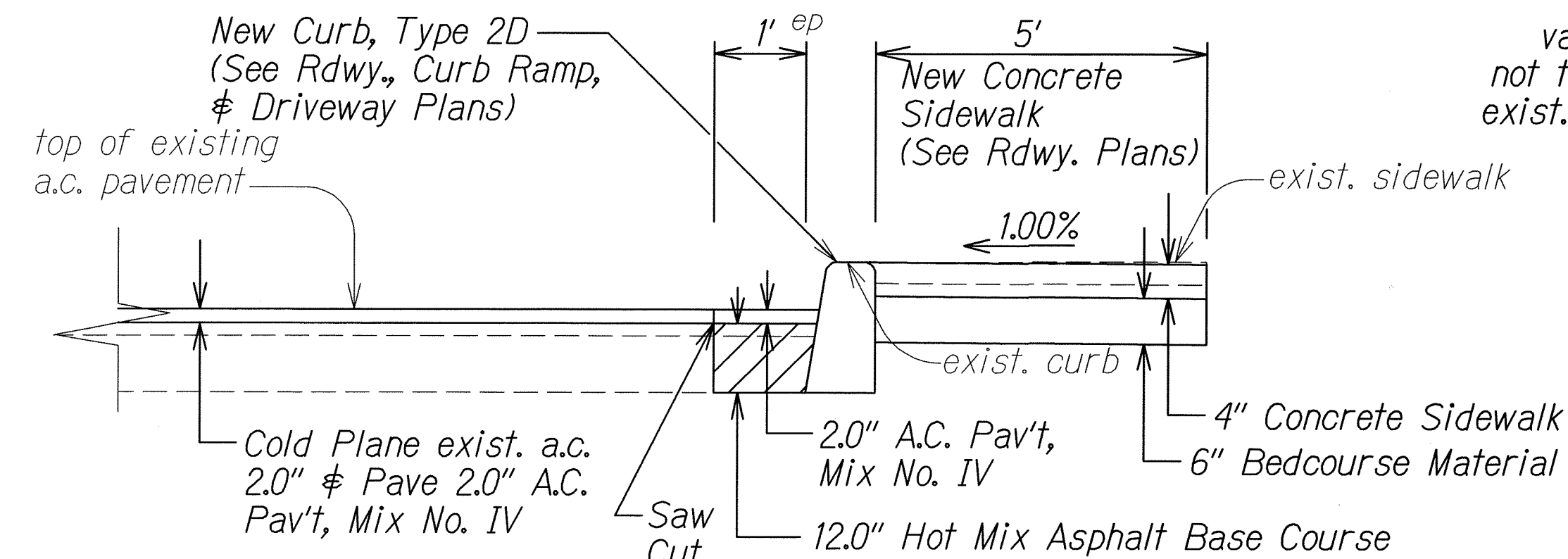
2 TYPICAL SECTION OF BUS BAY LIFT PAD
Scale: N.T.S.



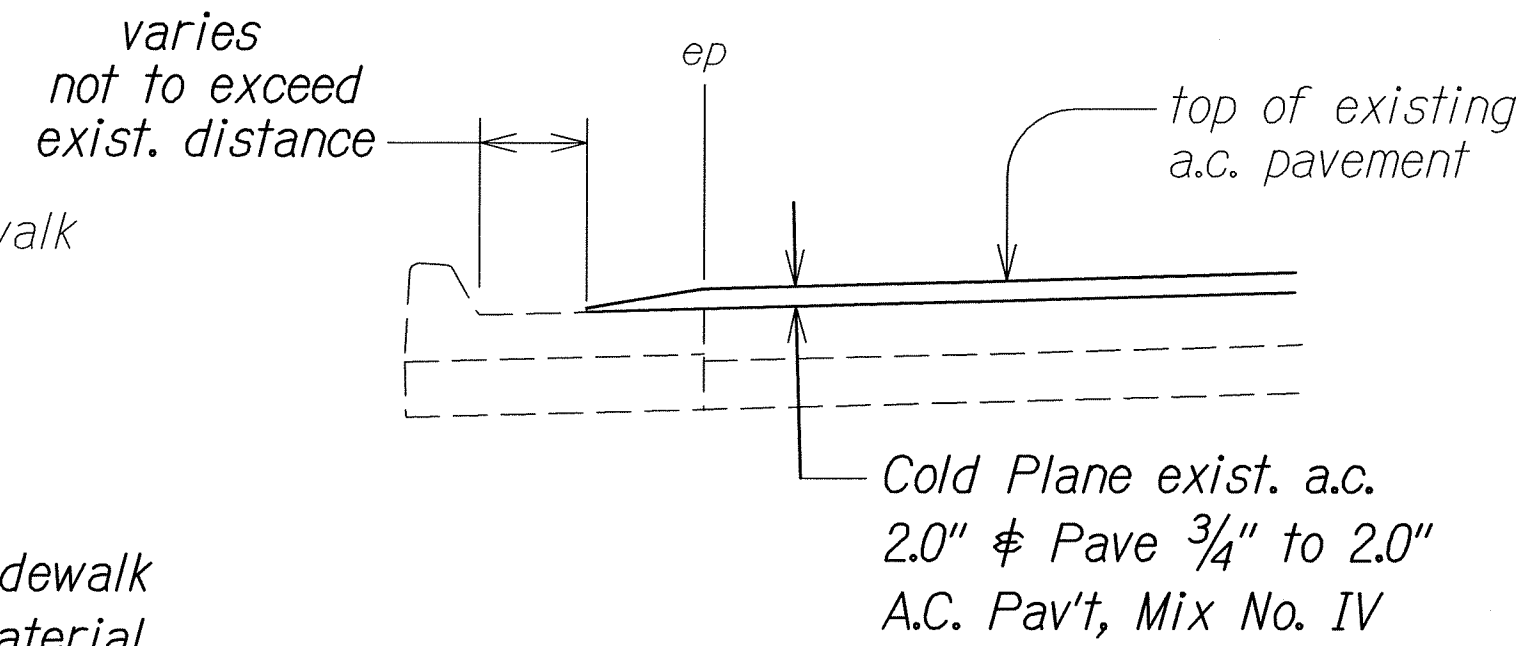
TYPICAL SECTION AT EXISTING PAVED SHOULDERS
Scale: N.T.S.



TYPICAL SECTION
AC PAVEMENT @ 8' CONC. SHLDR
Scale: N.T.S.

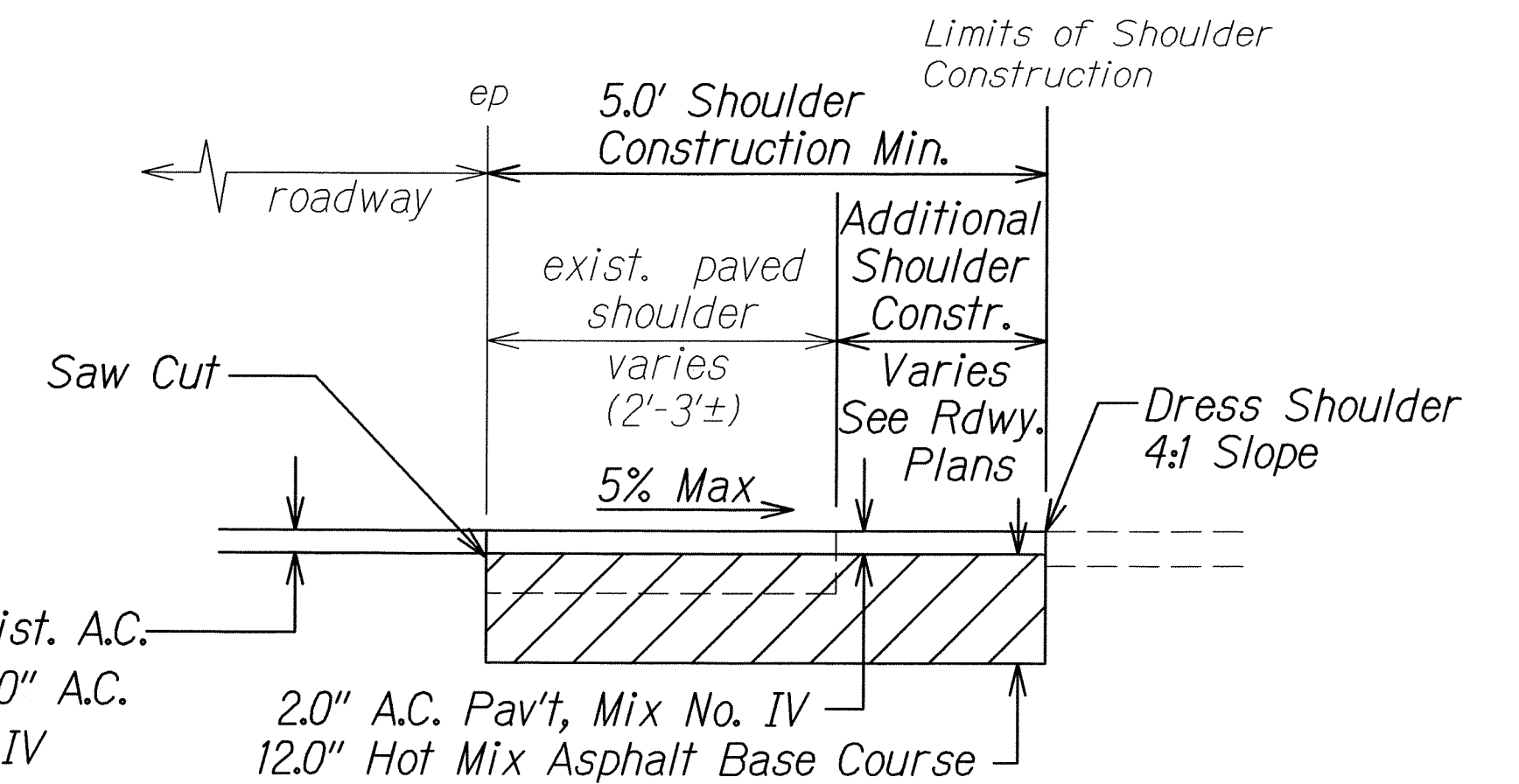


2 TYPICAL SECTION CURB/SIDEWALK CONSTRUCTION
@ STA. 2+41± TO @ STA. 16+00±
Scale: N.T.S.

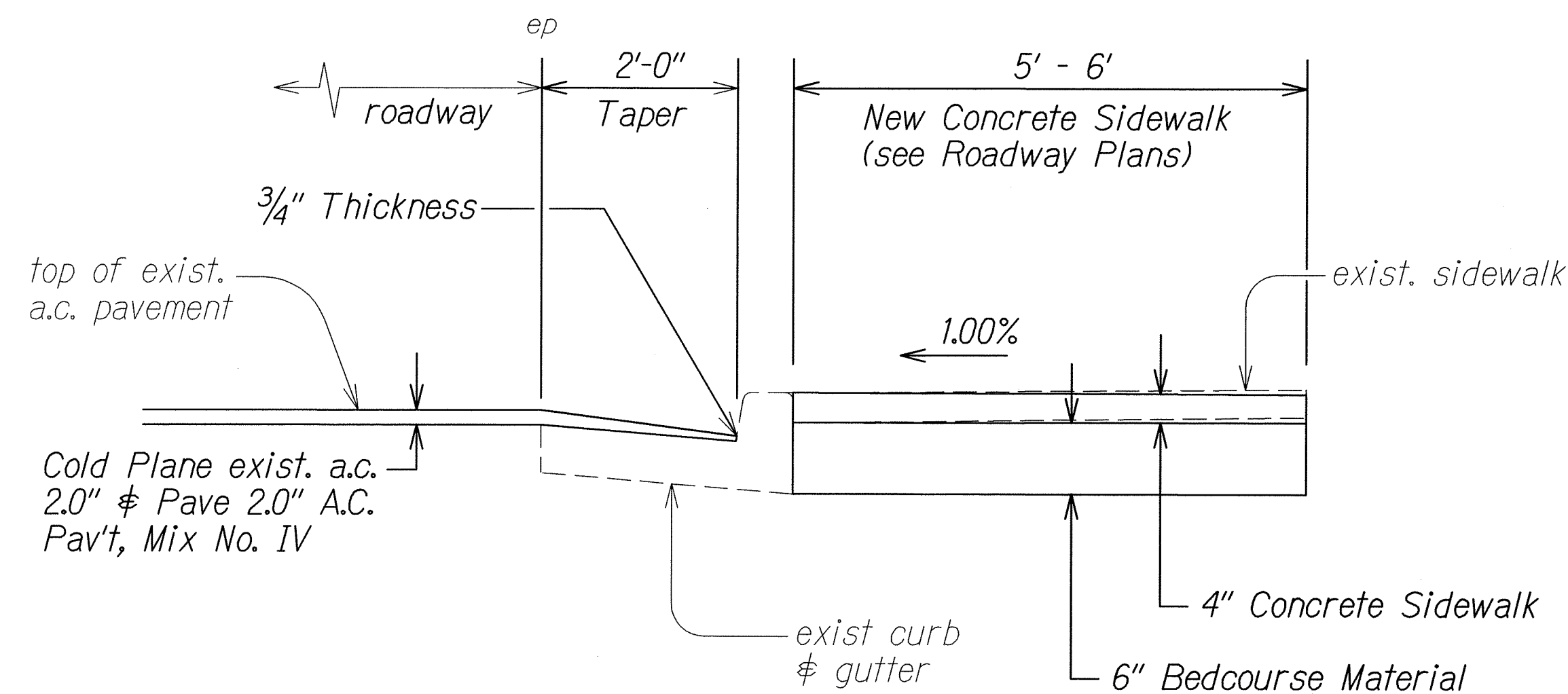


Note: Where pedestrian ramps occur, provide smooth pavement transition. Maximum slope of adjoining gutter and/or road surface immediately fronting curb ramp shall not exceed 5% for type A, D & combination ramp and 8.33% for type B, C & E ramp.

TYPICAL SECTION
AC PAVEMENT @ CURB & GUTTER
Scale: N.T.S.



2 TYPICAL SECTION SHOULDER CONSTRUCTION
Scale: N.T.S.

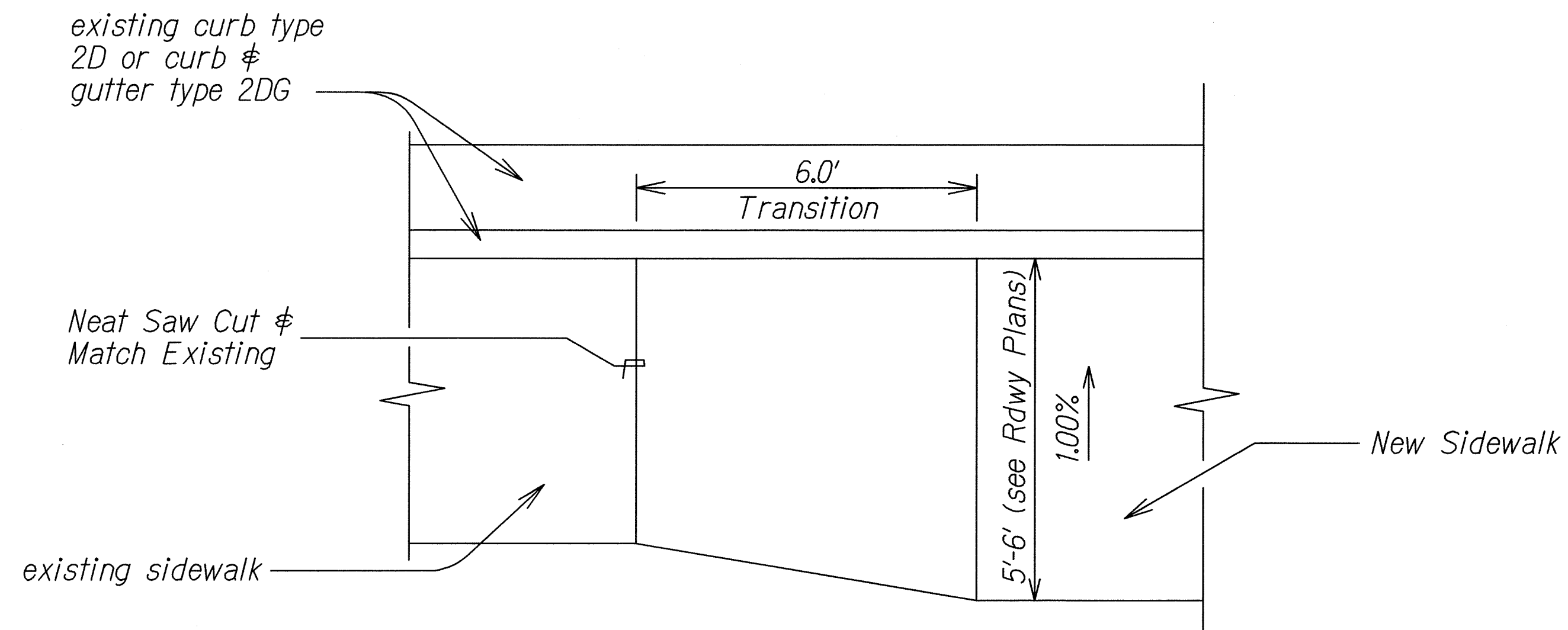


TYPICAL SECTION SIDEWALK CONSTRUCTION
@ STA. 90+70± TO @ STA. 1+46± RT.
Scale: N.T.S.

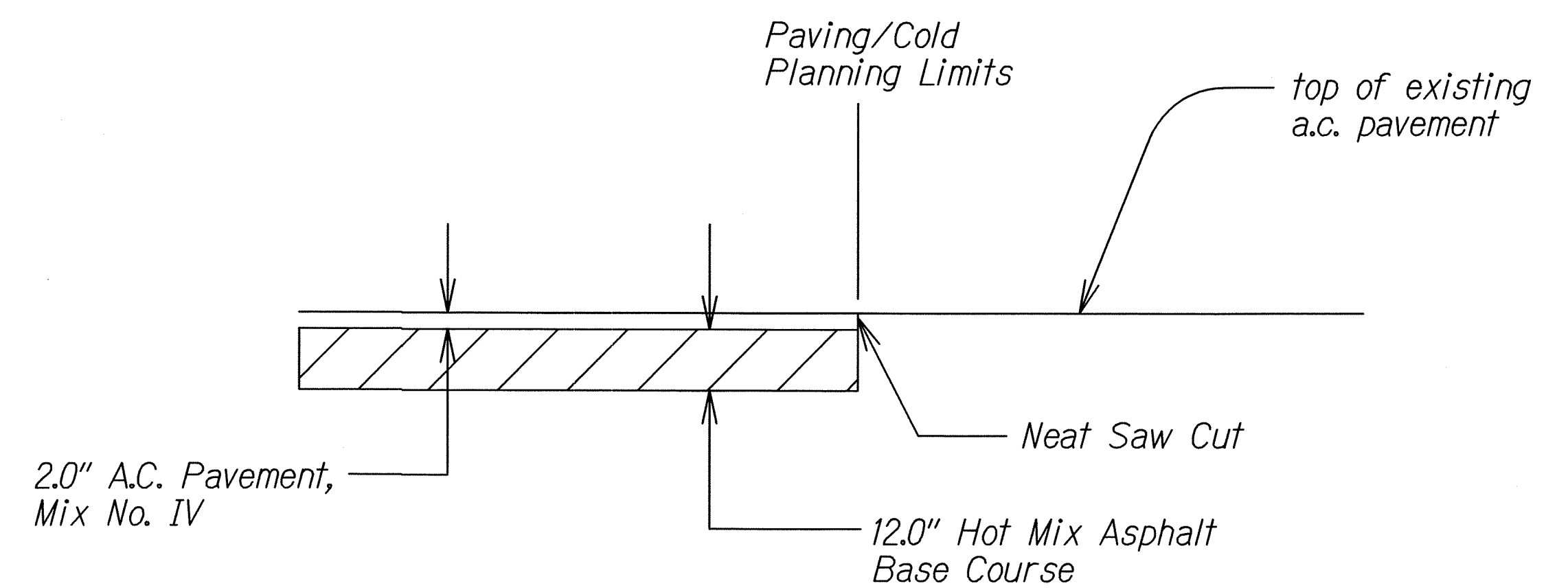
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

6/8/12	2 Revised pavement structure
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>TYPICAL SECTION</u>	
KANE OHE BAY DRIVE REHABILITATION Kamehameha Highway to Nanamoana Street Project No. 65AB-01-04M	
Scale: NTS	Date: May, 2012
SHEET No. 5 OF 5 SHEETS	

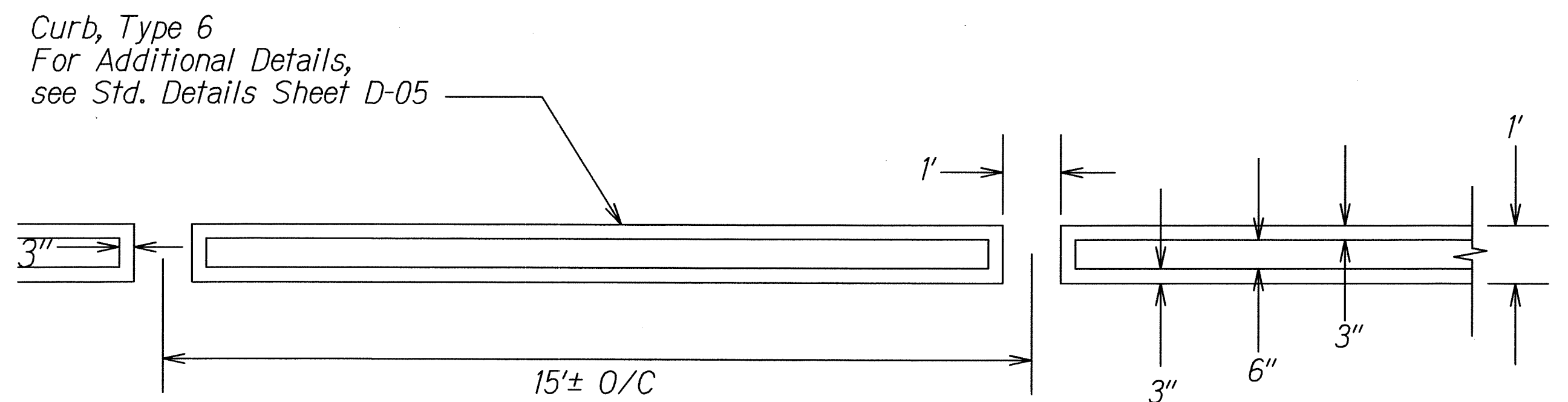
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD.13	81



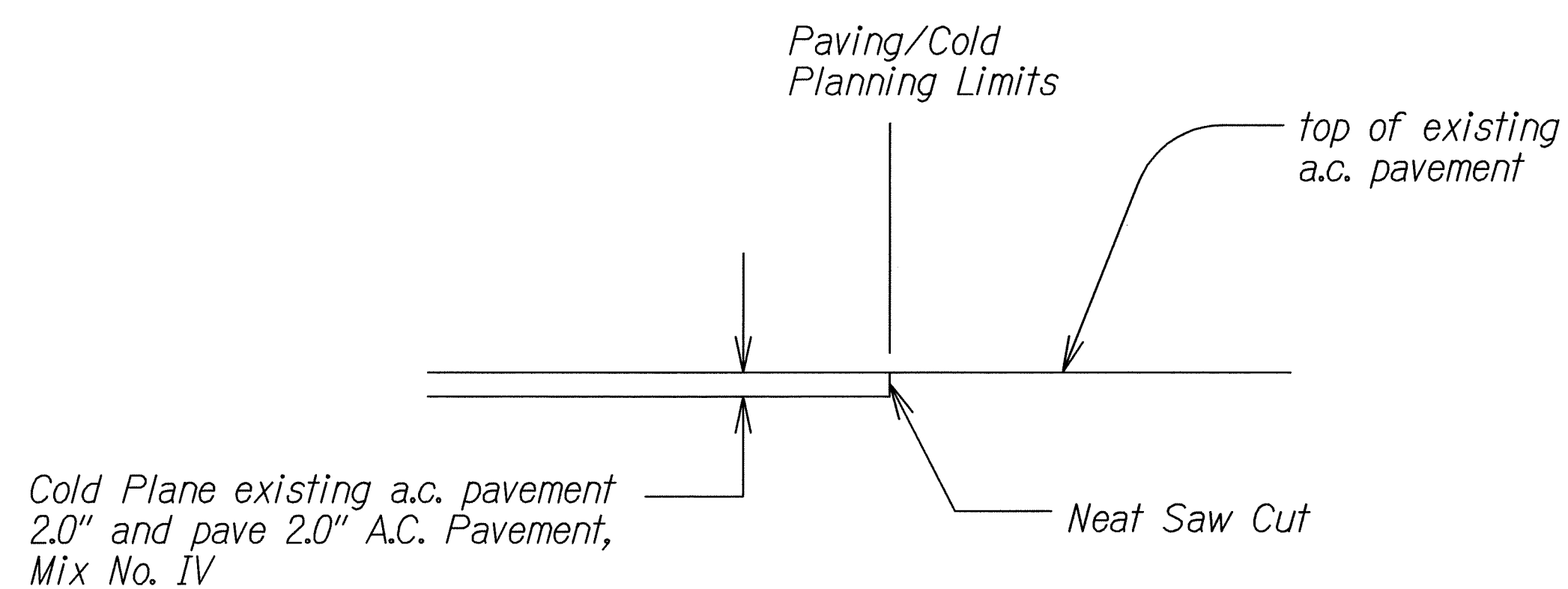
SIDEWALK TRANSITION DETAIL
Scale: N.T.S.



SMOOTH RIDING CONNECTION DETAIL AT PAVING/COLD PLANNING LIMITS. (RECONSTRUCTION AREAS)
Scale: NTS



PLAN CURB, TYPE 6
Scale: NTS

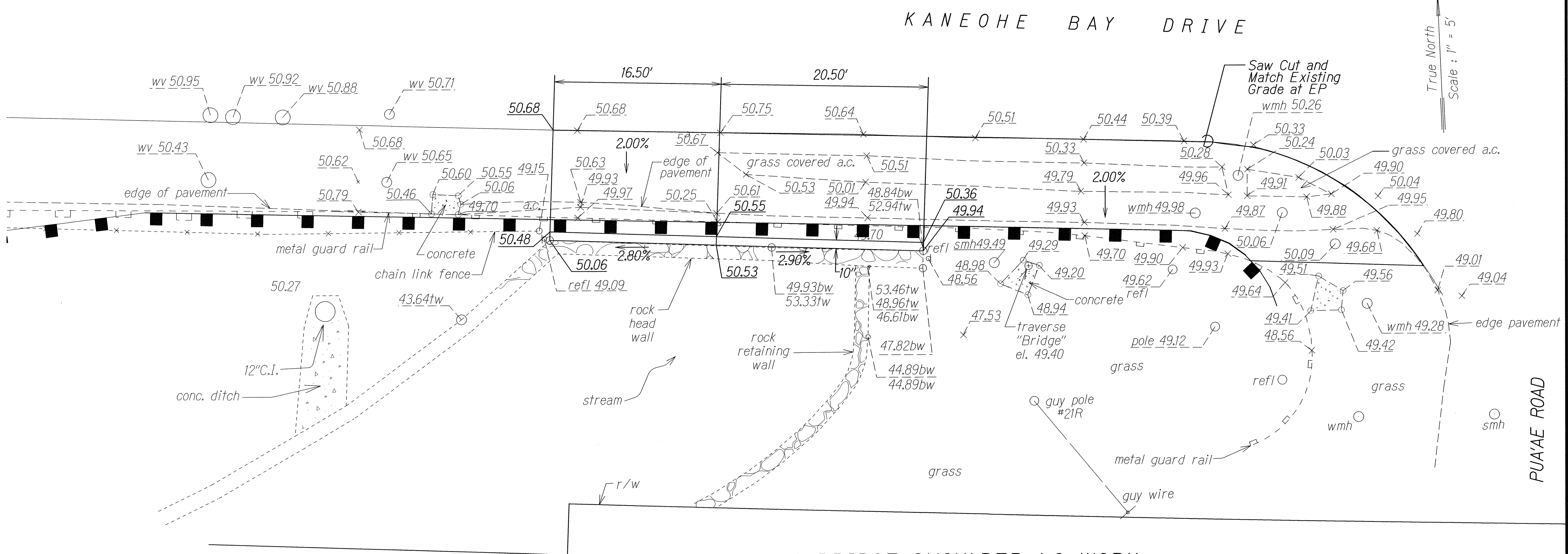


SMOOTH RIDING CONNECTION DETAIL AT PAVING/COLD PLANNING LIMITS. (COLD PLANE AREAS)
Scale: NTS

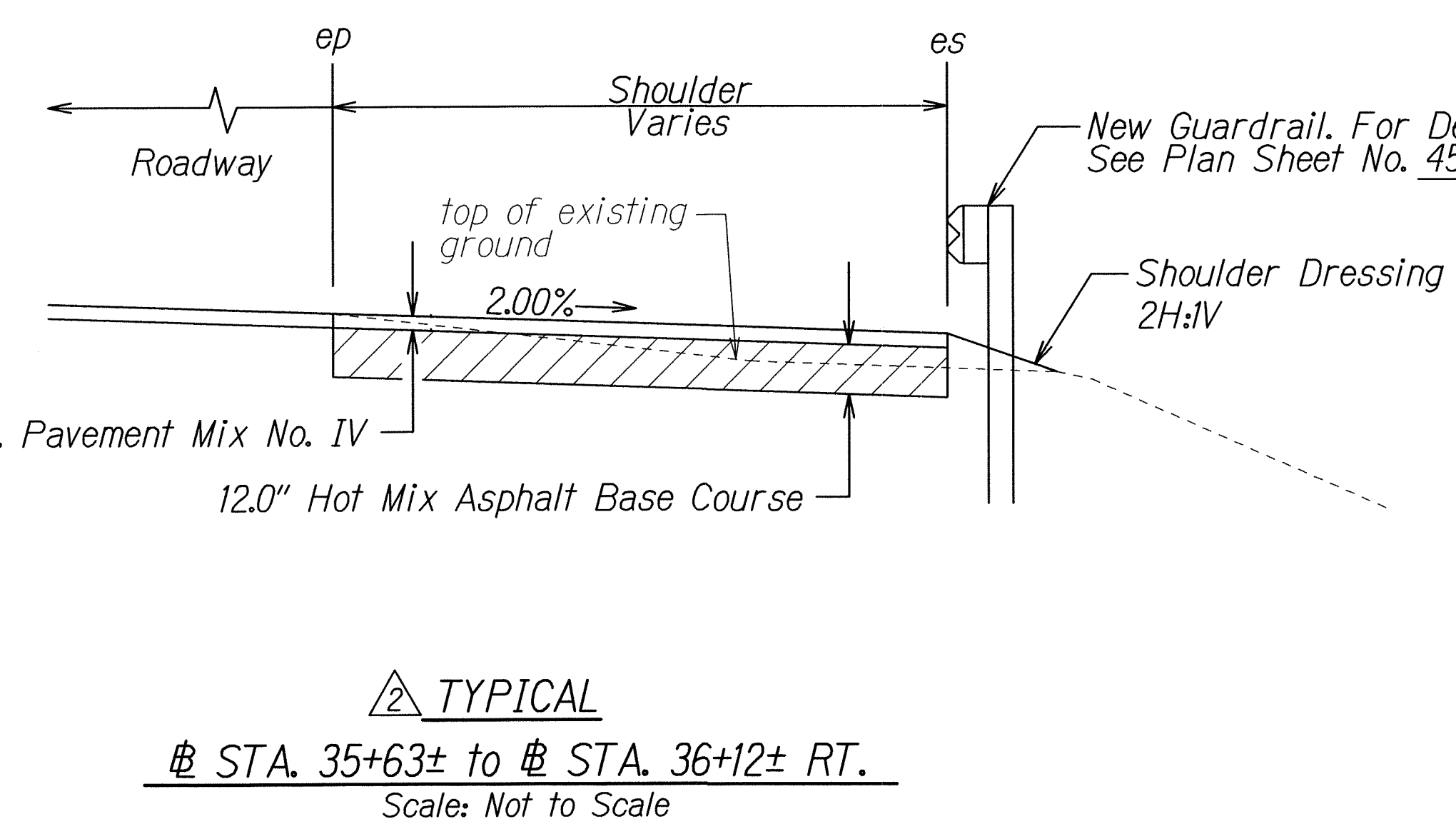
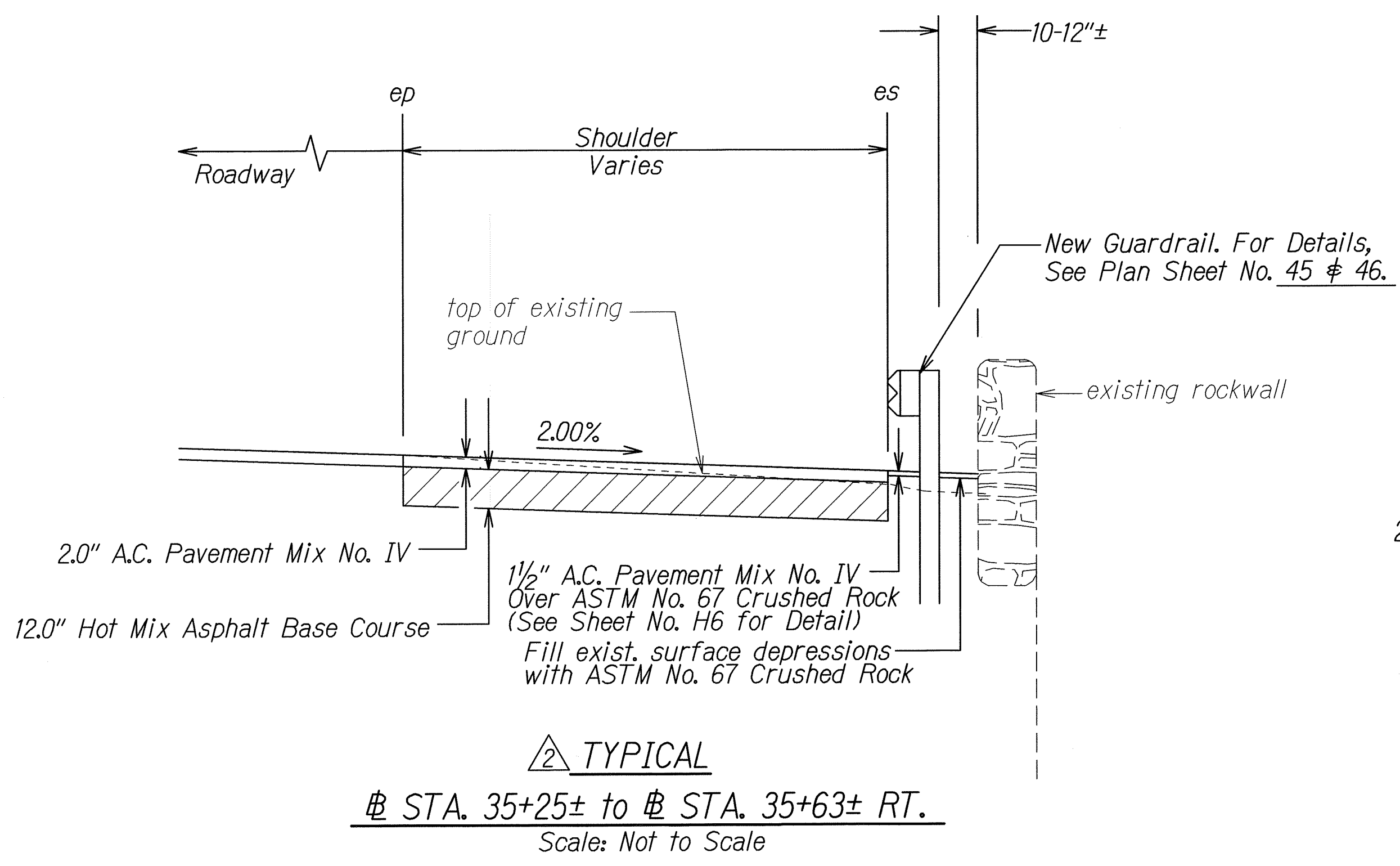
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
5kandis04a	DESIGNED BY	
N.	QUANTITIES BY	
	CHECKED BY	

6/8/12	2 Revised pavement structure
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>DETAILS</u>	
KANEHOE BAY DRIVE REHABILITATION Kamehameha Highway to Nanamoana Street Project No. 65AB-01-04M	
Scale: NTS	Date: May, 2012
SHEET No. 2 OF 7 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD. 16	81



KAWA BRIDGE SHOULDER A.C. WORK
STA. 35+25± TO # STA. 36+12± RT.
 Scale: 1"=5.0'

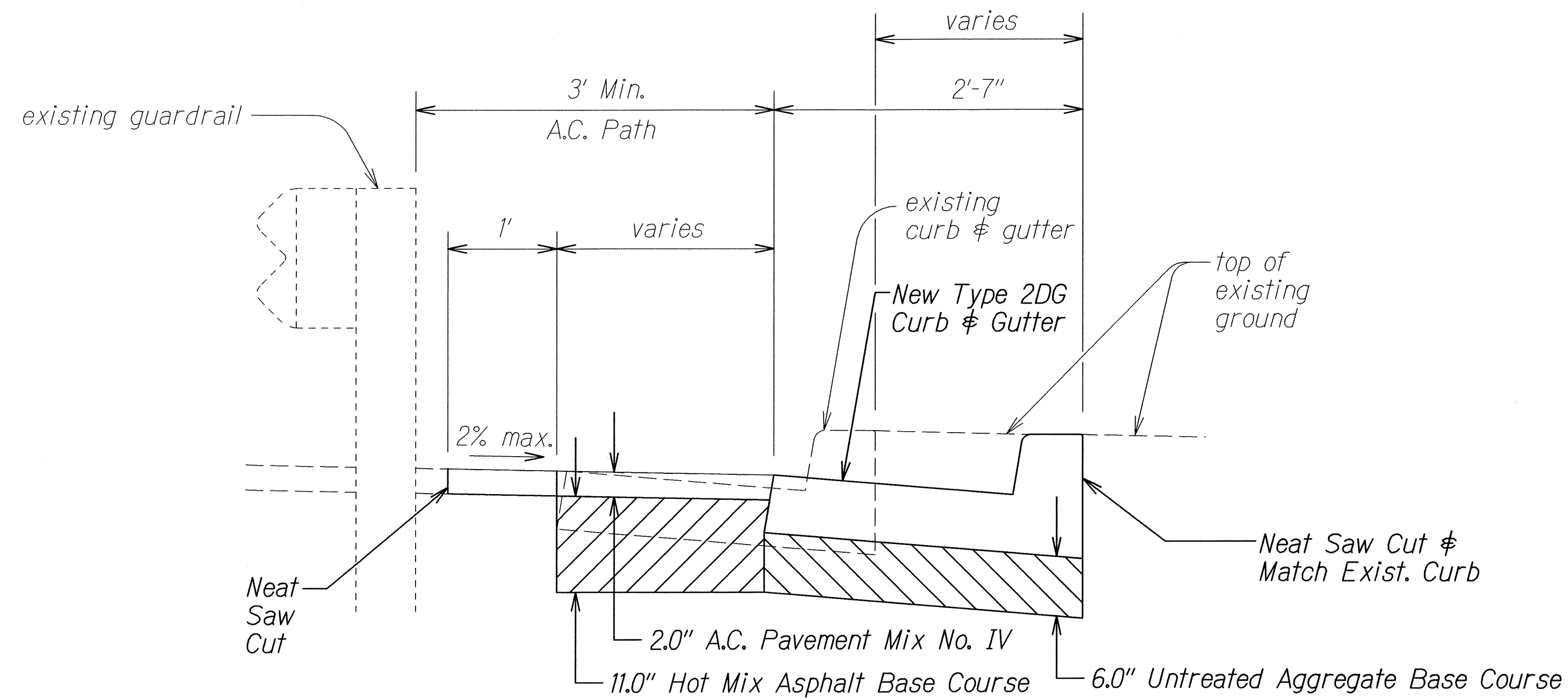


- Notes:
1. ASTM No. 67 Crushed Rock Shall Not Be Paid For Separately, But Shall Be Considered Incidental To Grouted Rubble Paving.

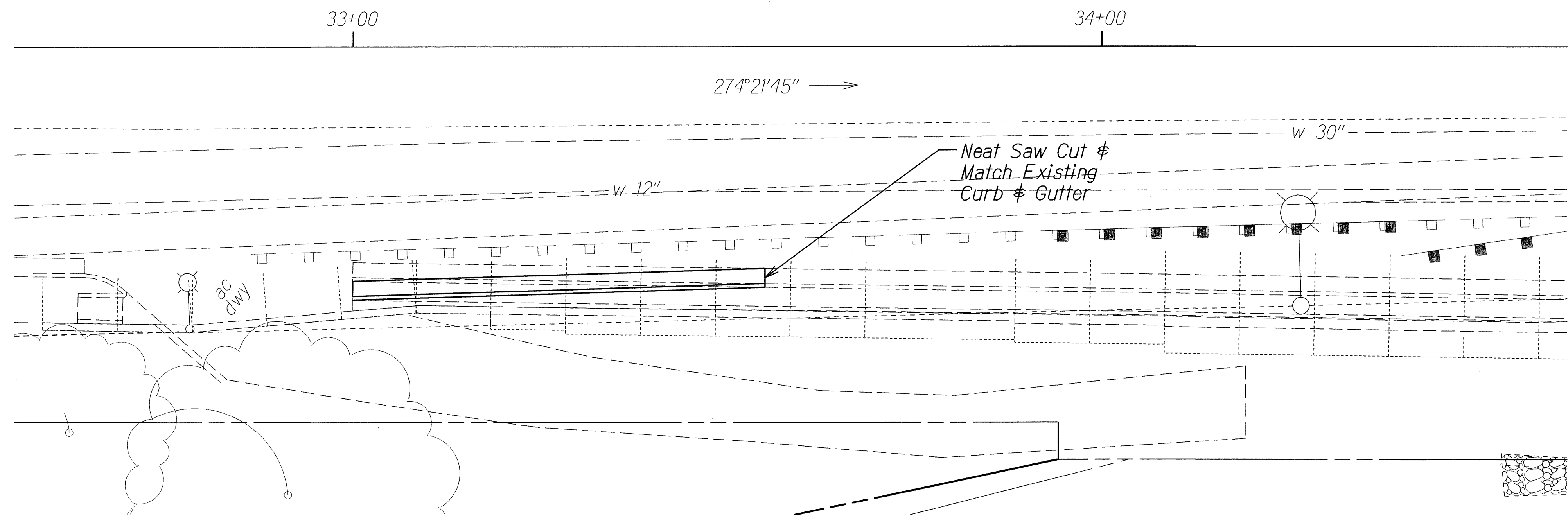
6/8/12	<u>2</u> Revised pavement structure.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>KAWA BRIDGE SHOULDER WORK</u>	
<u>KANE OHE BAY DRIVE REHABILITATION</u> <u>Kamehameha Highway to Nanamoana Street</u> <u>Project No. 65AB-01-04M</u>	
Scale: 1" = 5.0' Date: May, 2012	
SHEET No. 5 OF 7 SHEETS	

SURVEY PLOTTED BY	DATE
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NOTE BOOK	
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD. 17	81



TYPICAL SECTION
 # Sta. 33+00± to # Sta. 33+55± Rt.
 Scale: NTS



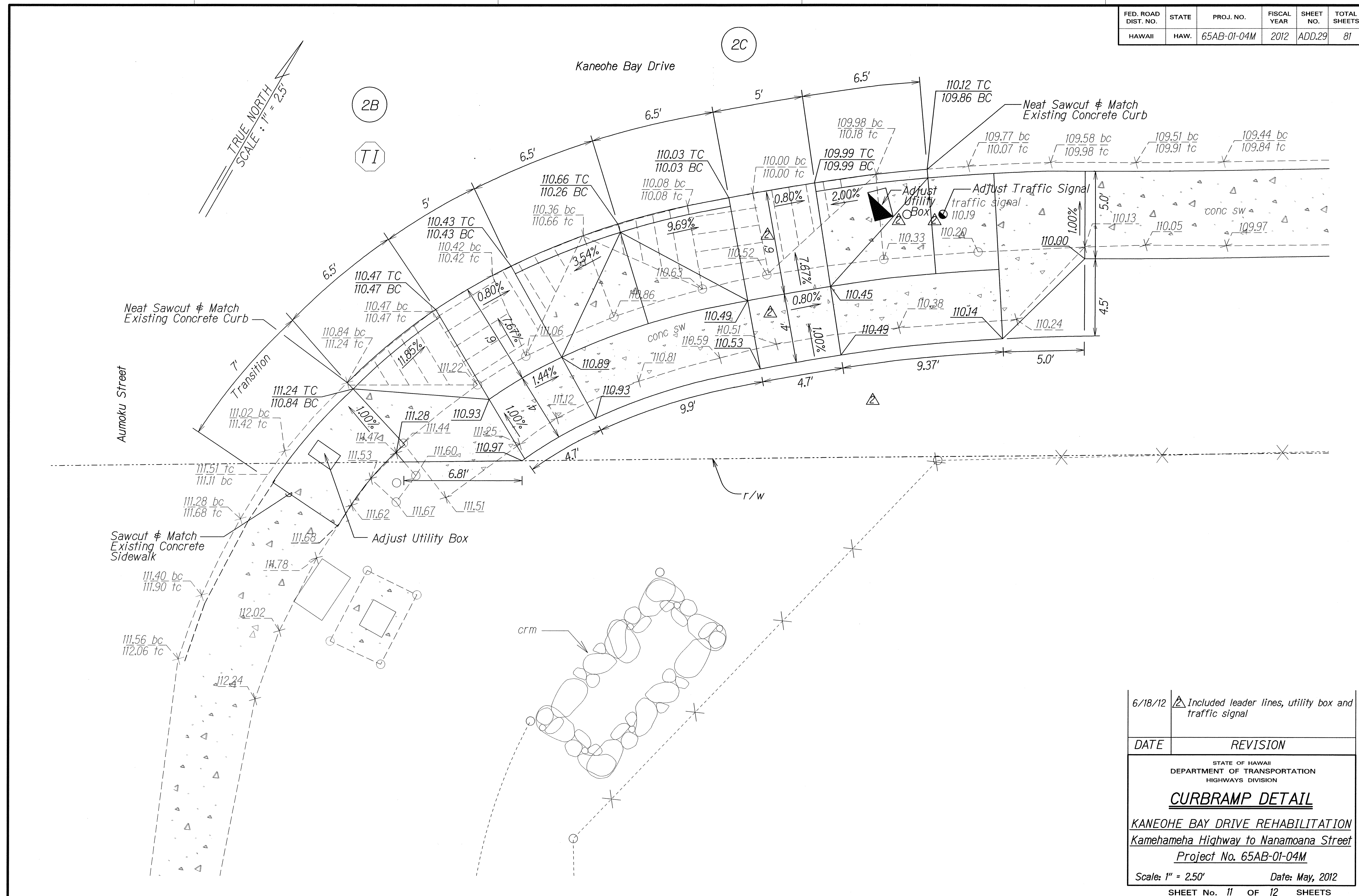
Sta. 33+00± to # Sta. 33+55± Rt.
 Remove existing curb and gutter. Construct New Type 2DG Curb and Gutter, and A.C. Path.

PLAN
CURB AND GUTTER ADJUSTMENT
 Scale: 1"=20'

6/8/12	Revised pavement structure.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION CURB AND GUTTER ADJUSTMENT KANEHOE BAY DRIVE REHABILITATION Kamehameha Highway to Nanamoana Street Project No. 65AB-01-04M Scale: As Noted Date: May, 2012	
SHEET No. 6 OF 7 SHEETS	

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
5/10/12	DESIGNED BY	
1/1/12	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD.29	81

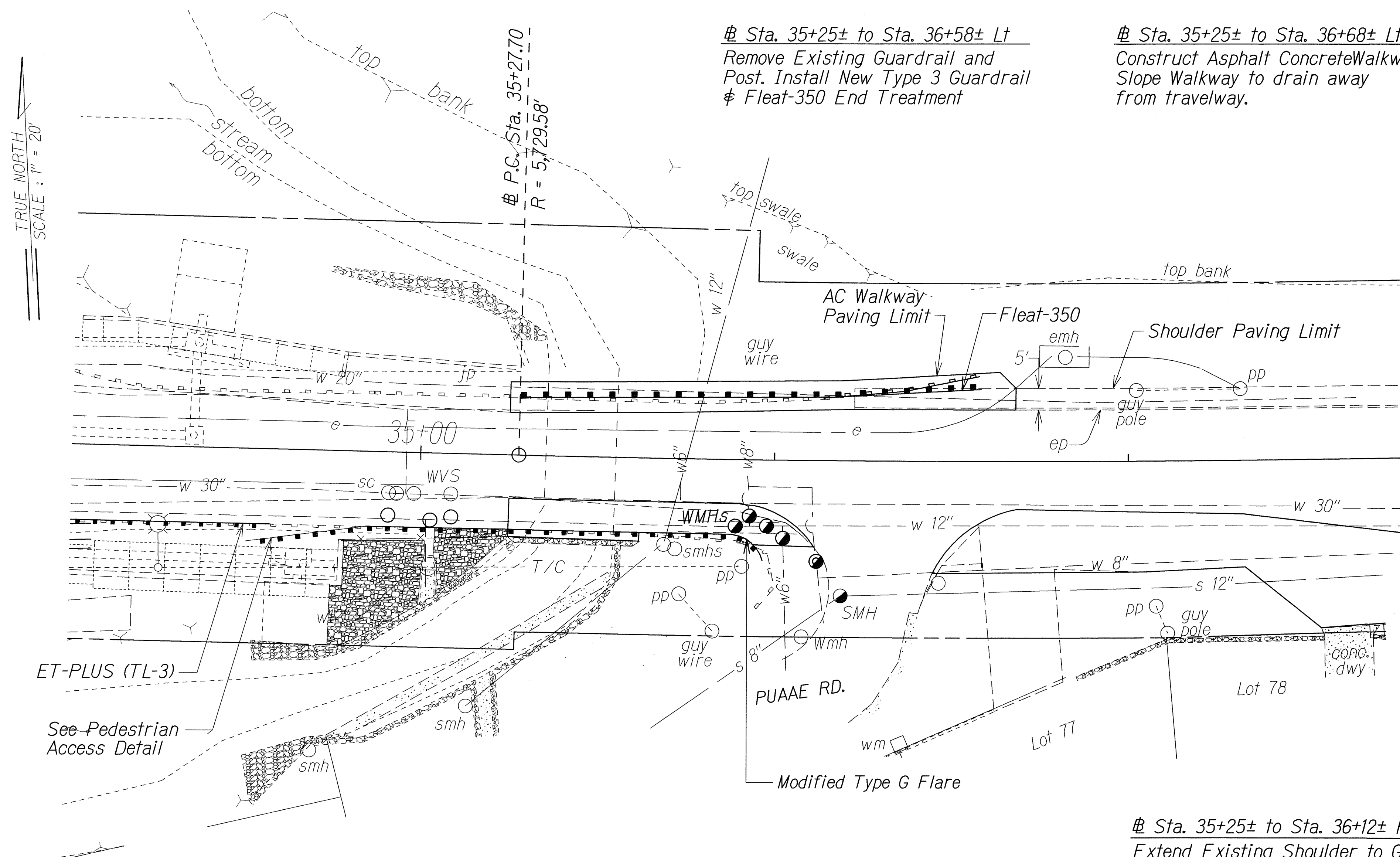


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

6/18/12	Included leader lines, utility box and traffic signal
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION CURBRAMP DETAIL KANEQHE BAY DRIVE REHABILITATION Kamehameha Highway to Nanamoana Street Project No. 65AB-01-04M Scale: 1" = 2.50' Date: May, 2012	
SHEET No. 11 OF 12 SHEETS	

ADD.29

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD. 43	81



Sta. 33+94± to Sta. 34+44± Rt.
Remove Existing Guardrail and Post.
Install New ET-PLUS (TL-3) End
Treatment.

Sta. 35+00± to # Sta. 35+25± Rt.,
Sta. 35+62± to # Sta. 35+80.75 Rt.
 Remove Existing Guardrail and Post.
 Install New Strong Post Rubrail
 (W-Beam) Guardrail with 8' Strong
 Post.

*# Sta. 34+40± to Sta. 34+78± Rt.
Remove Existing Guardrail and Post.
Install New Type 3 Guardrail with a
8:1 Flare and Modified Type G Flare
at Approach End. See Pedestrian
Access Detail.*

Sta. 34+78± to Sta. 35+00± Rt.
Remove Existing Guardrail and Post.
Install New Type 3 Guardrail with
8' Strong Post. Transition to New
Strong Post Rubrail (W-Beam).

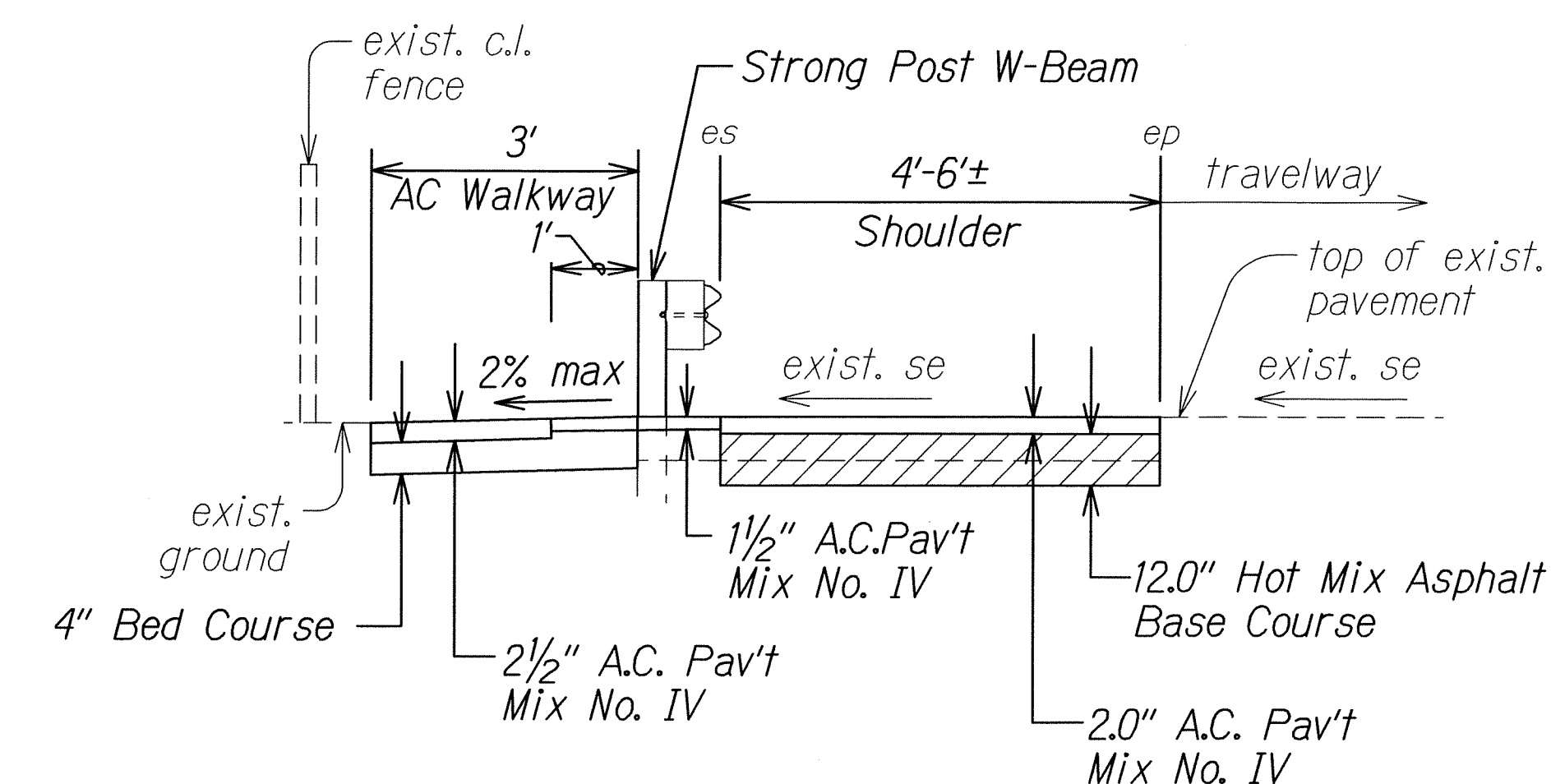
Sta. 35+25± to Sta. 35+62± Rt.
Remove Existing Guardrail and Post.
Install Strong Post Rubrail (W-Beam,
Guardrail Double Nested Top W-Beam,
Single Nested Bottom W-Beam.

Sta. 35+80.75± to Sta. 35+97± Rt.
Remove Existing Guardrail and Post.
Install New Type 3 Guardrail & Special
Type "G" Modified End Treatment,
13' at R=10'

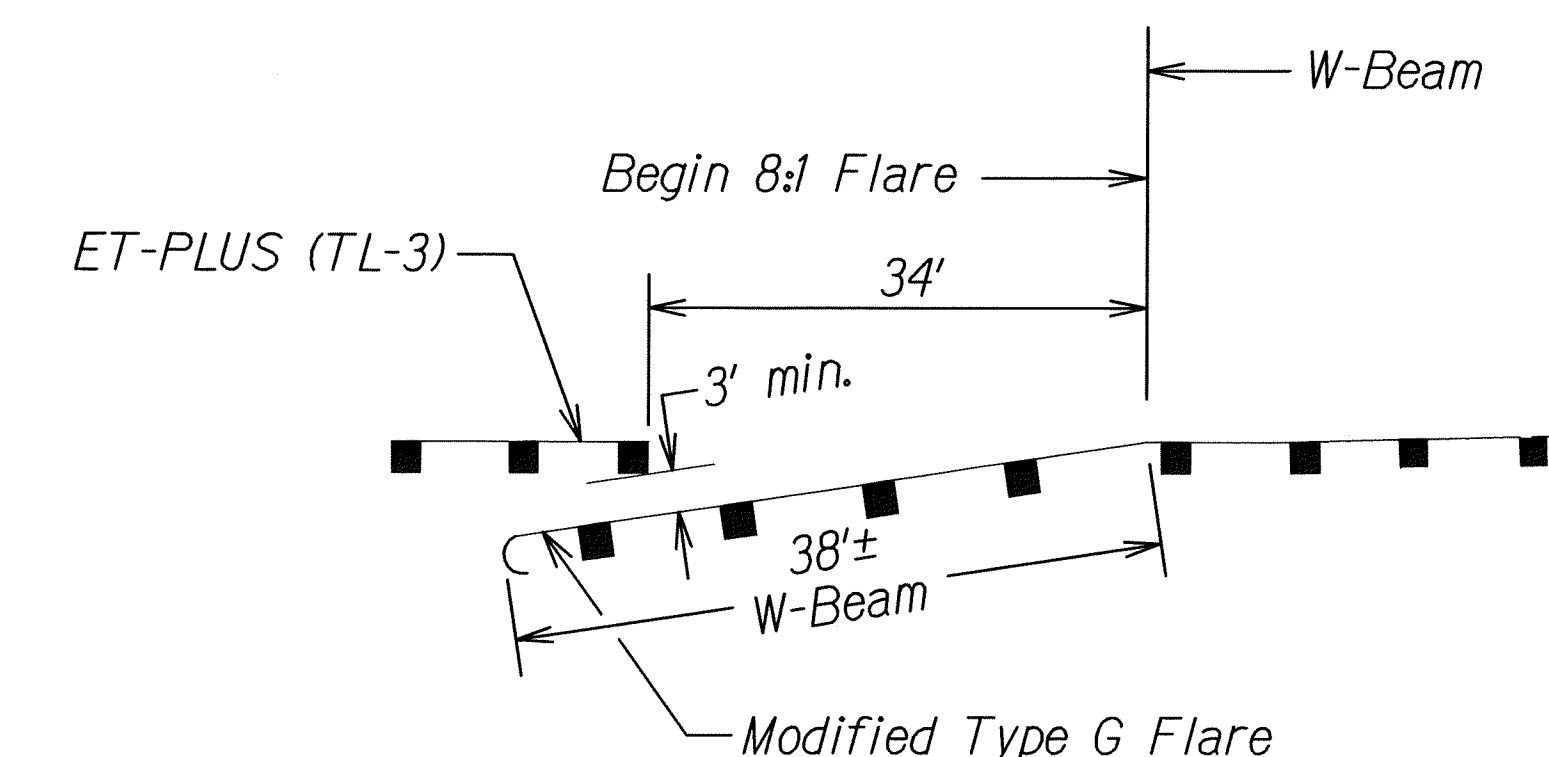
Sta. 35+25± to Sta. 36+68± Lt
Construct Asphalt Concrete Walkway;
Slope Walkway to drain away
from travelway.

Sta. 35+25± to Sta. 36+12± Rt.
Extend Existing Shoulder to Guardrail
Using A.C. Mix No. IV, While Maintaining
2% Slope; Grub & Compact Existing
Ground. For Details See Plan Sheet No. 17.

Kawa Bridge Right & Left
Extreme care shall be taken
to avoid disturbing or damaging
existing utilities or bridge deck.



△ SECTION
KAWA BRIDGE LT
Scale: N.T.S.



PLAN
PEDESTRIAN ACCESS DETAIL
KAWA BRIDGE RT.
Scale: N.T.S.

6/8/12	<div style="border: 1px solid black; padding: 2px; display: inline-block;">2</div> Added notes. Revised pavement structure.
DATE	REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

GUARDRAIL DETAILS

AT KAWA BRIDGE

KANEOE BAY DRIVE REHABILITATION
Kamehameha Highway to Nanamoana Street
Project No. 65AB-01-04M

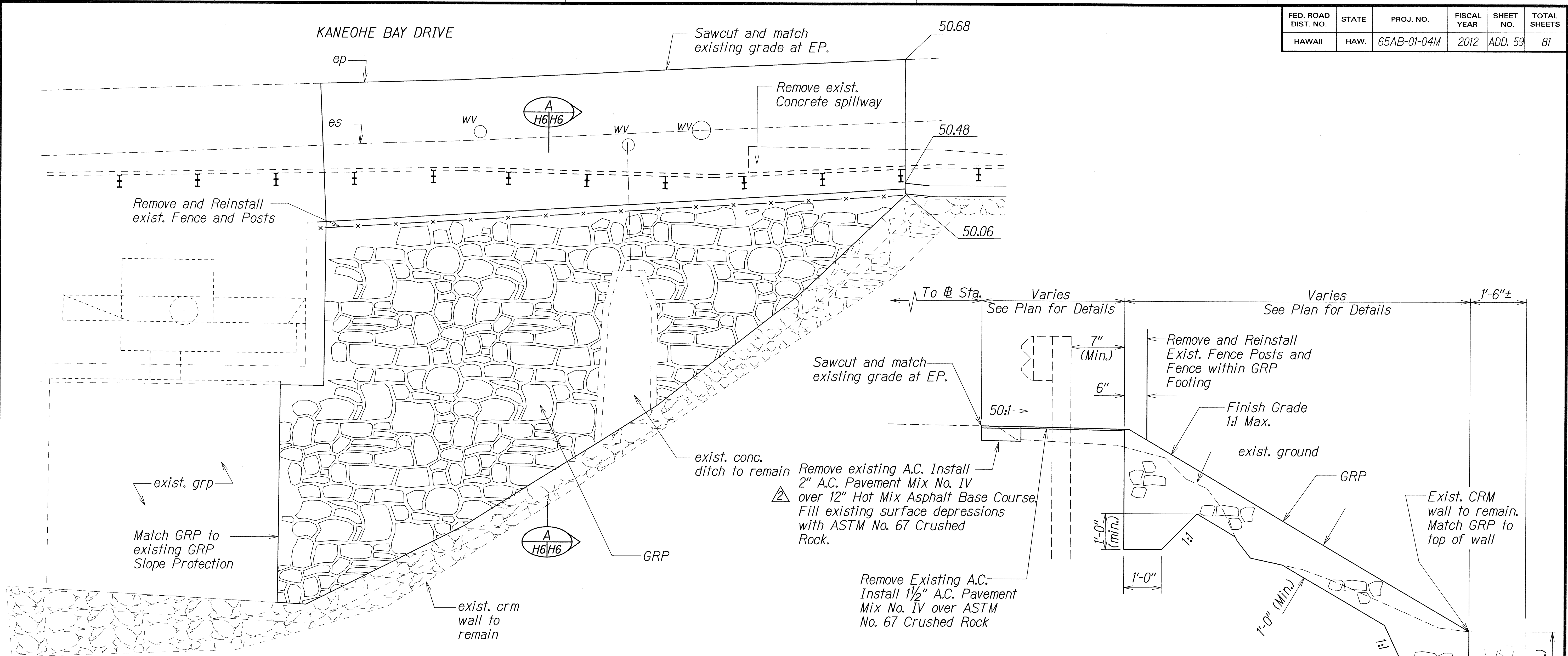
Scale: As Noted Date: May, 2012

SHEET No. 13 OF 15 SHEETS

ADD. 43

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
<i>adj. Maie Stan</i>	TRACED BY _____
<i>Shangri 02</i>	DESIGNED BY _____
No. _____	QUANTITIES BY _____
	CHECKED BY _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD. 59	81



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

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

LEAVE OUT DETAIL
Scale: 3/4"=1'-0"

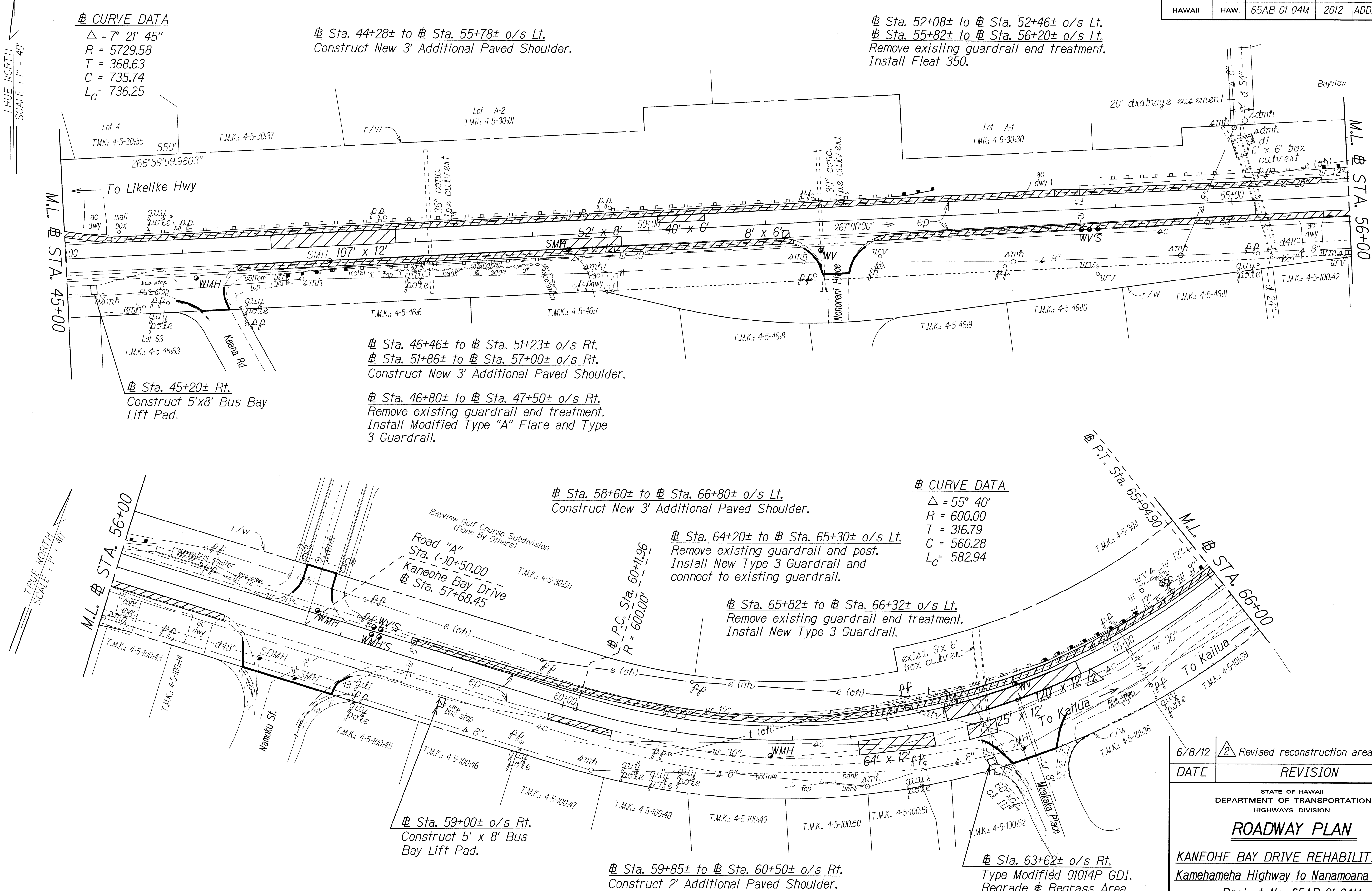
Notes:

1. Fill slope surface depressions with Grouted Rubble Paving. Fill material shall not be used.
2. Removing and reinstalling existing fence and posts and placing foundation within the GRP shall not be paid for separately, but shall be considered incidental to Grouted Rubble Paving. Space fence posts such that post is not directly behind guardrail post.
3. The location of the guardrail posts and fence line are approximate. The Contractor is responsible for verifying the locations. In locations where the back of the guardrail post is less than 7 inches to the Grouted Rubble Paving install Leave Out Detail.
4. Removing existing concrete spillway shall not be paid for separately, but shall be considered incidental to Grouted Rubble Paving.
5. ASTM No. 67 Crushed Rock shall not be paid for separately, but shall be considered incidental to Grouted Rubble Paving.
6. Removing and reinstalling existing metal guardrail and posts shall not be paid for separately, but shall be considered incidental to Strong Post W Beam Guardrail.

DETAILS OF GRP SLOPE PROTECTION @ STA. 34+80± RT. TO @ STA. 35+27.7± RT.

6/8/12	Revised Pavement Structure
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAINAGE DETAIL	
Kaneohe Bay Drive Rehabilitation Kamehameha Highway to Nanamoa Street Project No. 65AB-01-04M	
Scale: As Shown	Date: Feb, 2006
SHEET No. H6 OF 9 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	65AB-01-04M	2012	ADD. 65	81



ORIGINAL PLAN	DATE
NOTED	DATE
DESIGNED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE

6/8/12	Revised reconstruction area.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY PLAN	
KANEOHE BAY DRIVE REHABILITATION Kamehameha Highway to Nanamoana Street Project No. 65AB-01-04M	
Scale: 1" = 40'	Date: May, 2012
SHEET No. 3 OF 6 SHEETS	