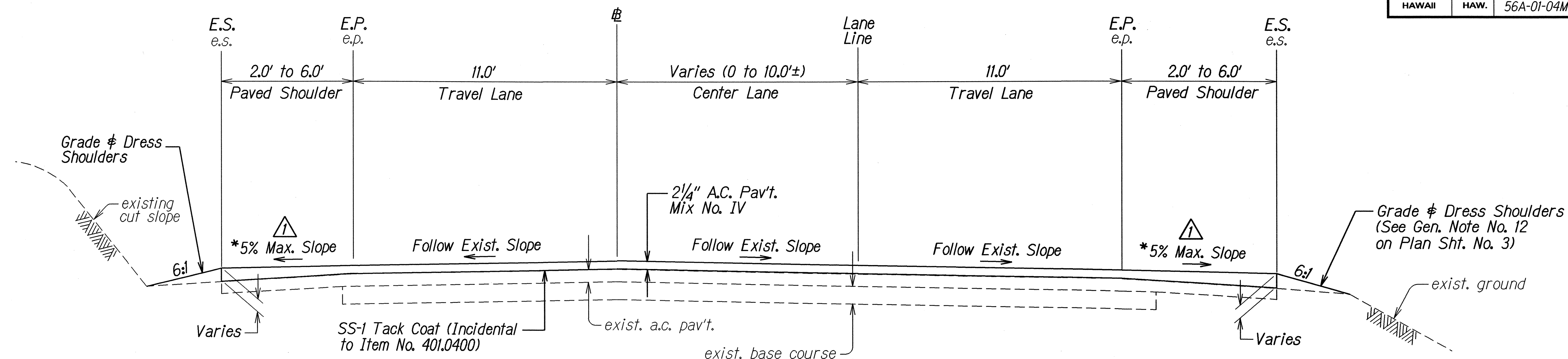
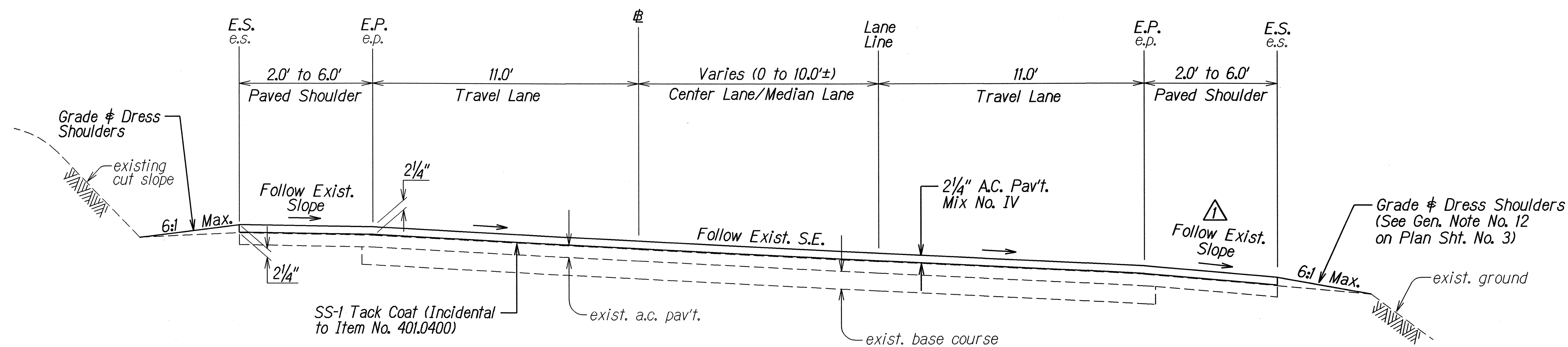


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	ADD. 6	48



* For exist. shoulder slope less than 5%, follow existing shoulder slope.
 For exist. shoulder equal to or greater than 5%, use 5% shoulder slope.

TYPICAL SECTION
 Scale: $\frac{3}{8}" = 1'-0"$



SUPERELEVATED SECTION
 Scale: $\frac{3}{8}" = 1'-0"$

SURVEY PLOTTED BY	DATE
DESIGNED BY	2/22/04
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

	11/17/04	Revised Slope Callout and Added Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

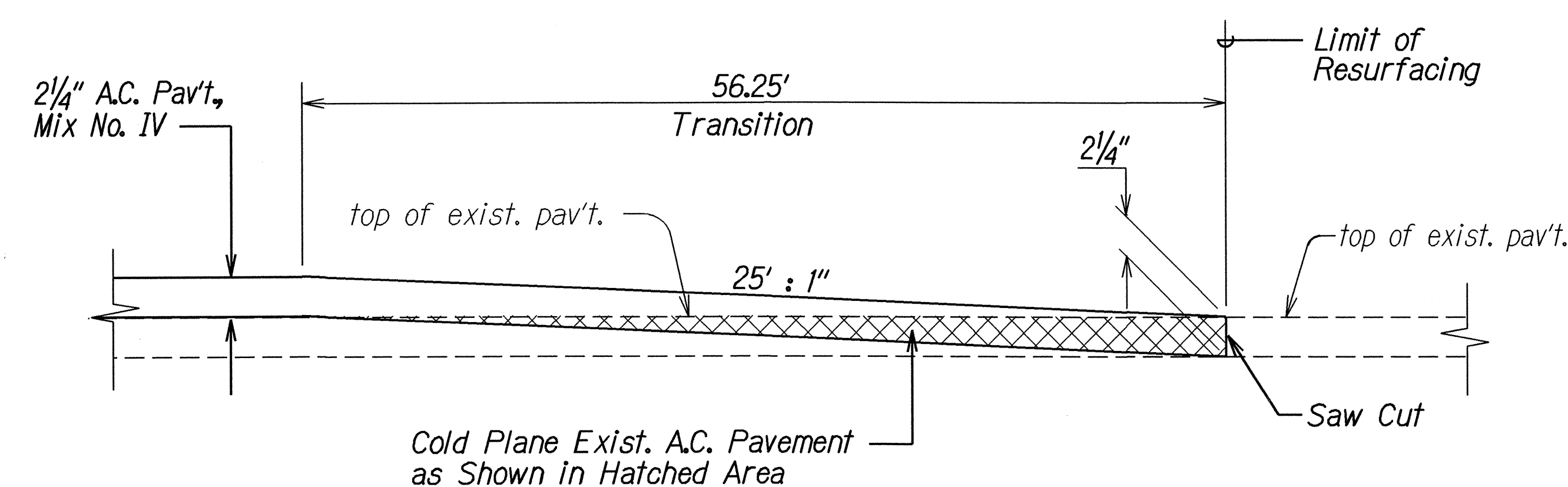
TYPICAL SECTIONS

KUHIO HIGHWAY RESURFACING
Vicinity of Hanamaulu
Project No. 56A-01-04M

Scale: As Shown Date: Nov. 2004

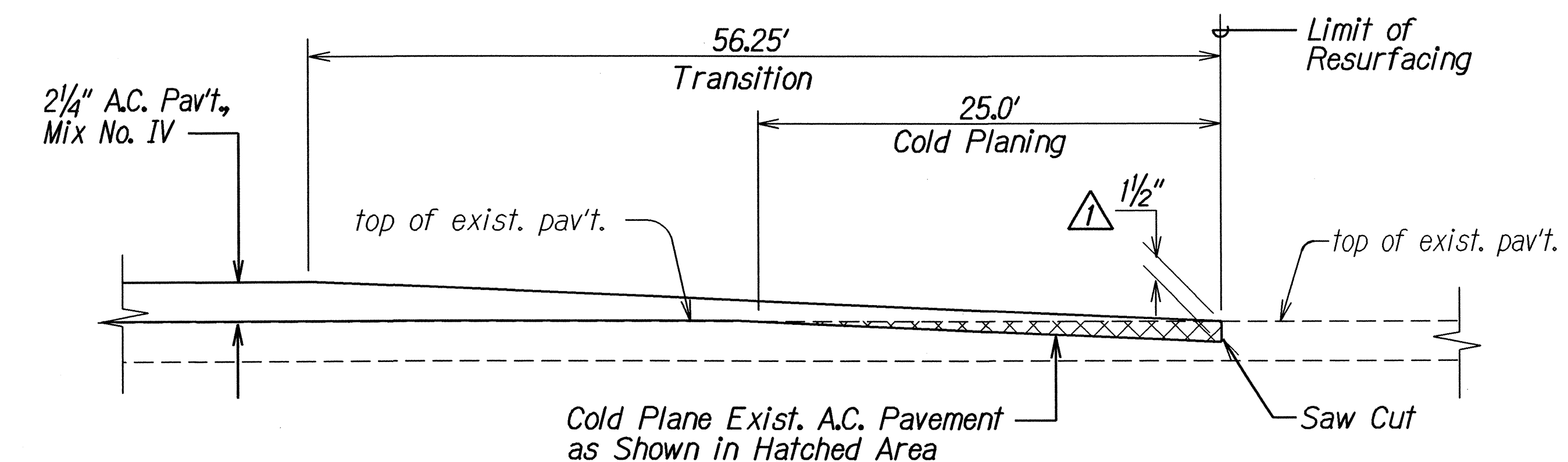
SHEET No. 1 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	ADD. 7	48



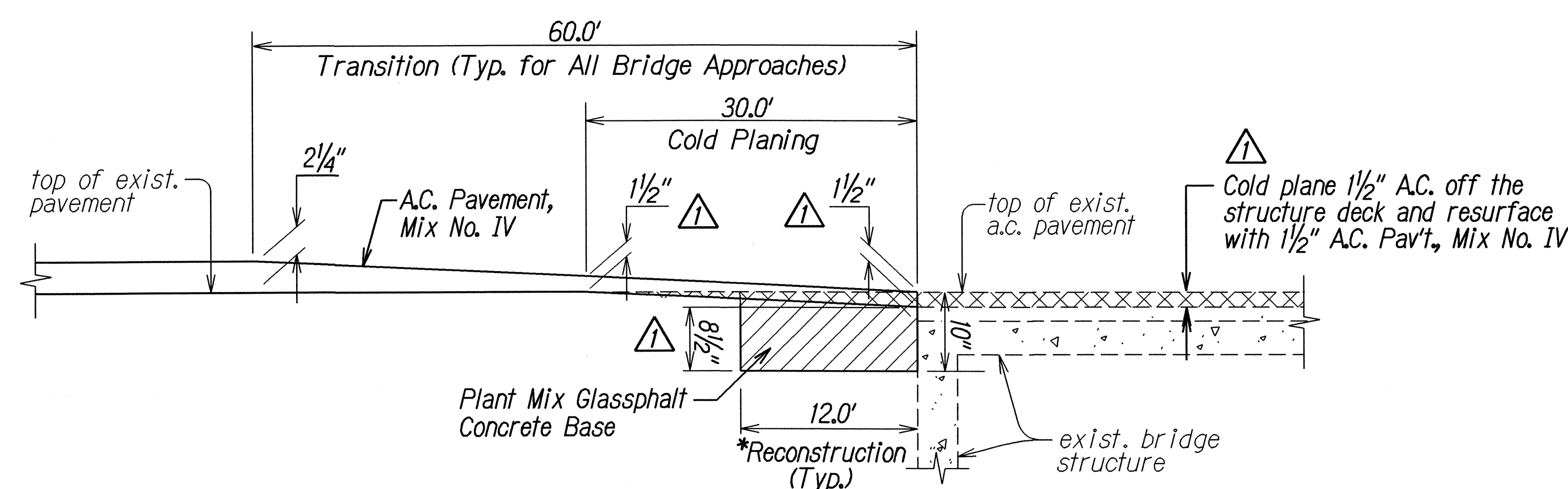
**COLD PLANED TRANSITION TO EXISTING A.C. PAVEMENT
AT BEGINNING AND END OF PROJECT**

Not to Scale



**COLD PLANED TRANSITION TO EXISTING A.C. PAVEMENT
AT EXCEPTIONS**

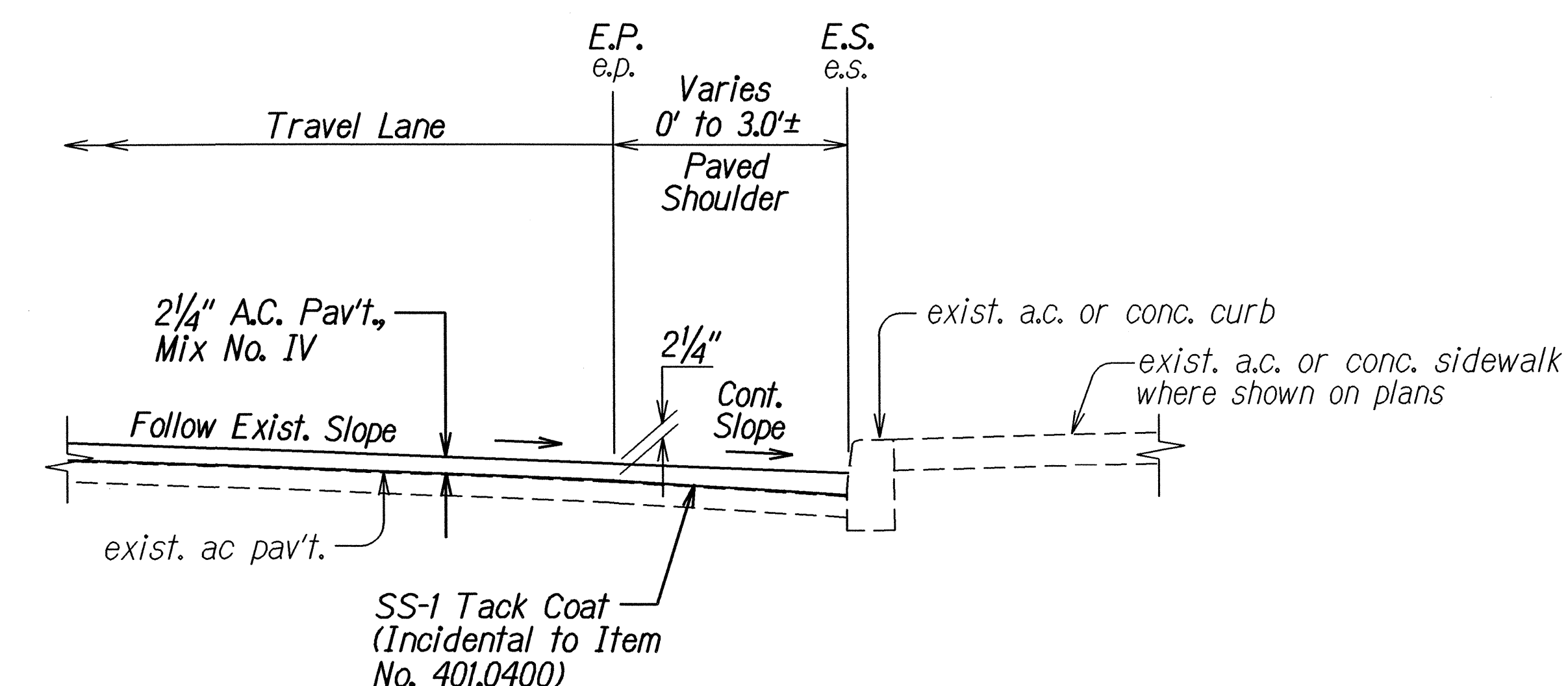
Not to Scale



* Prior to cold planing, the Contractor shall reconstruct the bridge approaches with 10-inch thick plant mix glassphalt concrete base below the existing pavement grade.

TRANSITION AT KAPAIA BRIDGE

Not to Scale



RESURFACING AT EXIST. A.C. CURB AND/OR SIDEWALK LOCATIONS

BETWEEN STA. 133+47± AND STA. 147+40±

Not to Scale

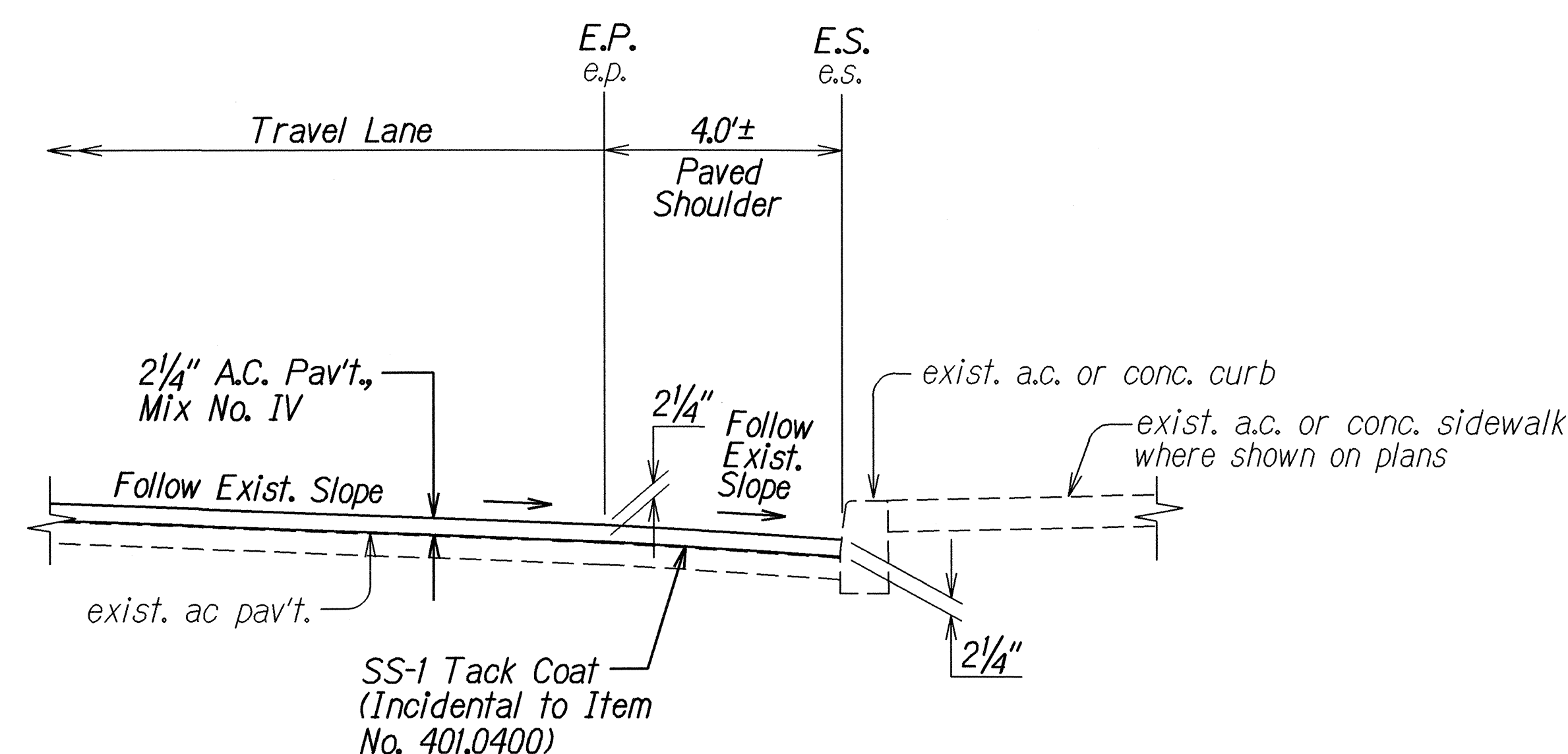
DATE	2/27/04
SURVEY PLOTTED BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	2/27/04
NO.	

	11/17/04	Revised Callout/Dimension
DATE	REVISION	

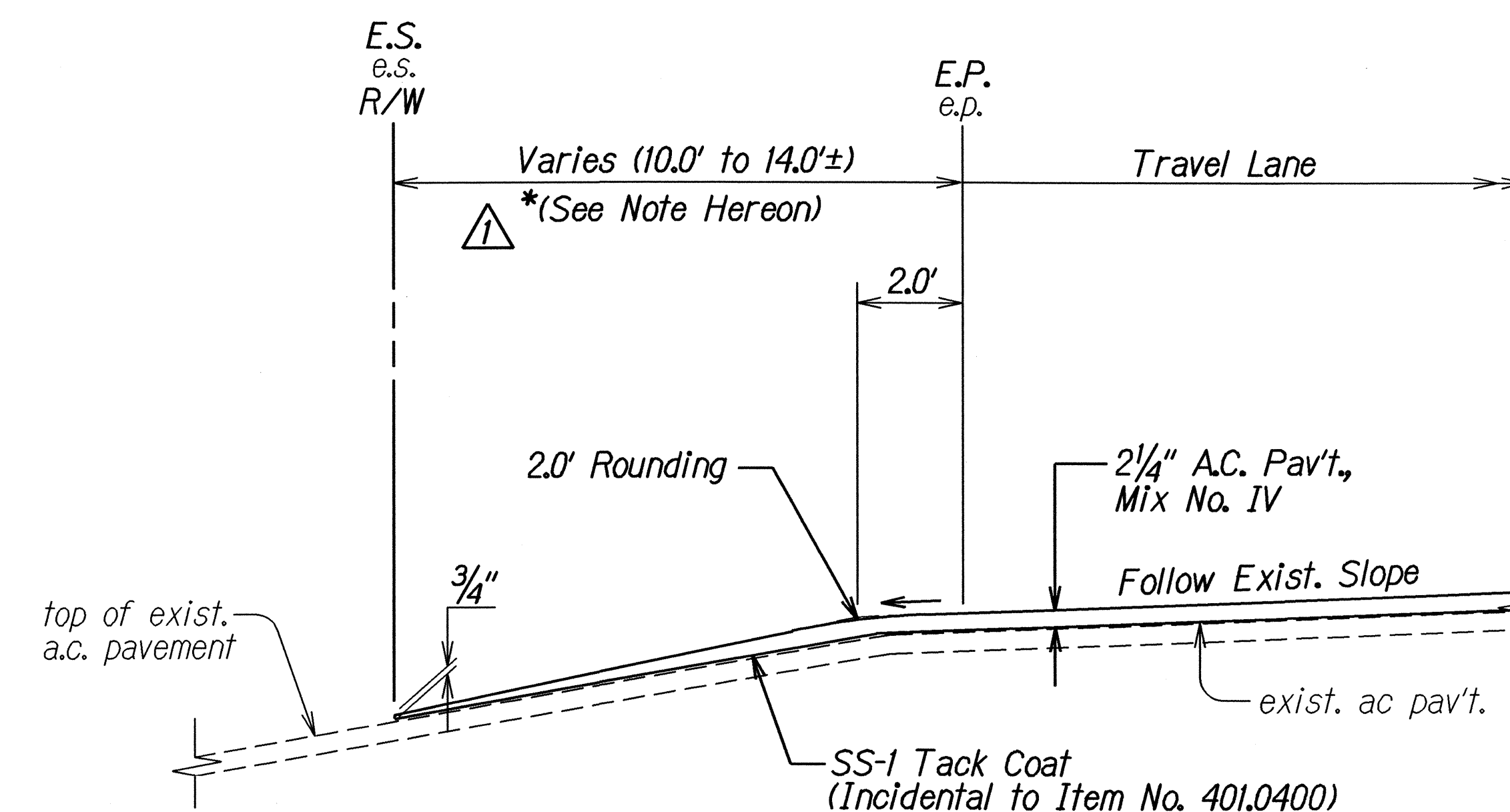
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>TYPICAL SECTIONS</u> <u>KUHIO HIGHWAY RESURFACING</u> <u>Vicinity of Hanamaulu</u> <u>Project No. 56A-01-04M</u> Scale: As Shown Date: Nov. 2004 SHEET No. 2 OF 10 SHEETS		
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ADD. 7

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	ADD. 8	48

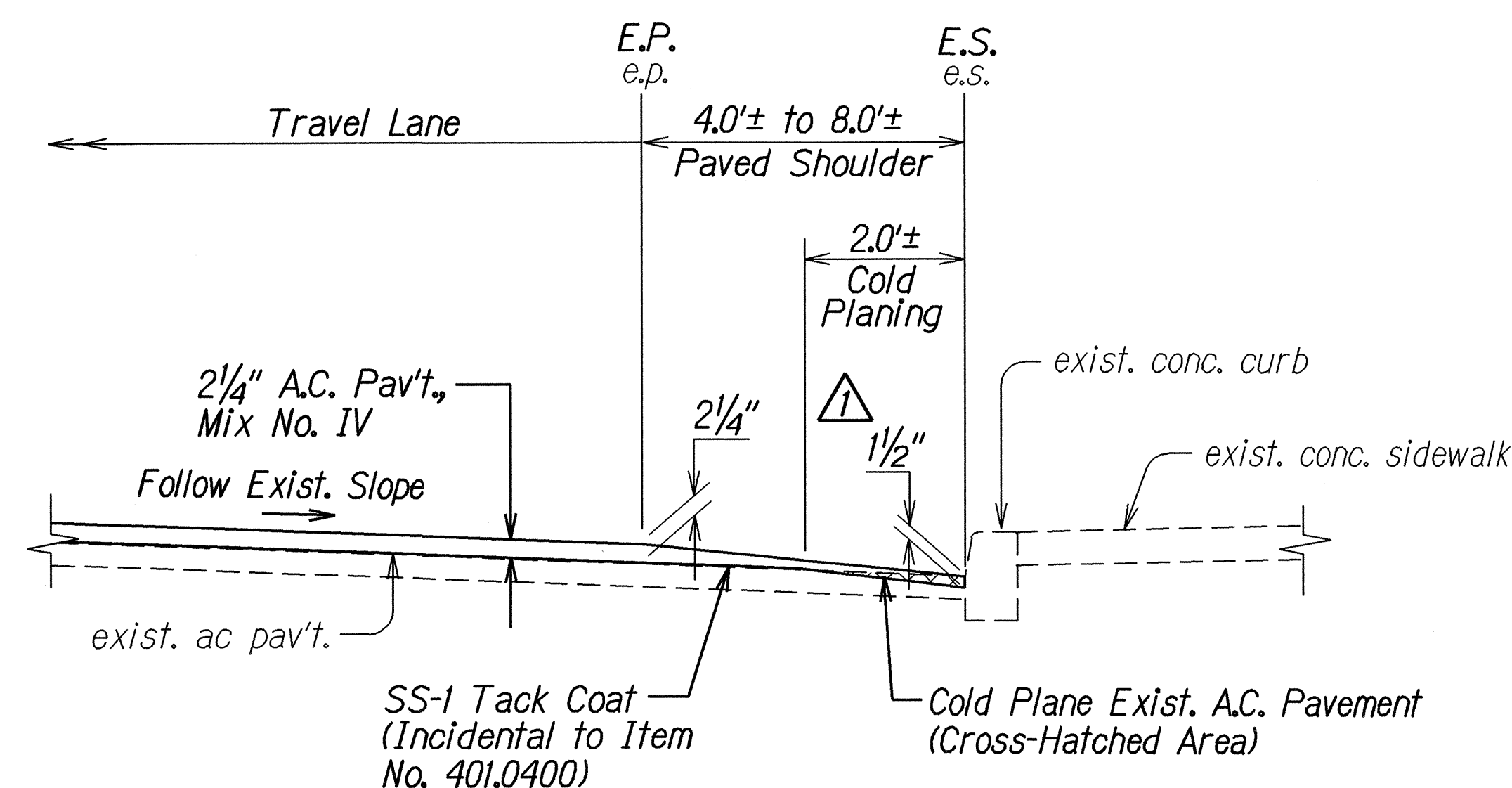


**RESURFACING AT EXIST. CONC. CURB AND SIDEWALK LOCATIONS
BETWEEN # STA. 179+10± AND # STA. 179+80±**
Not to Scale

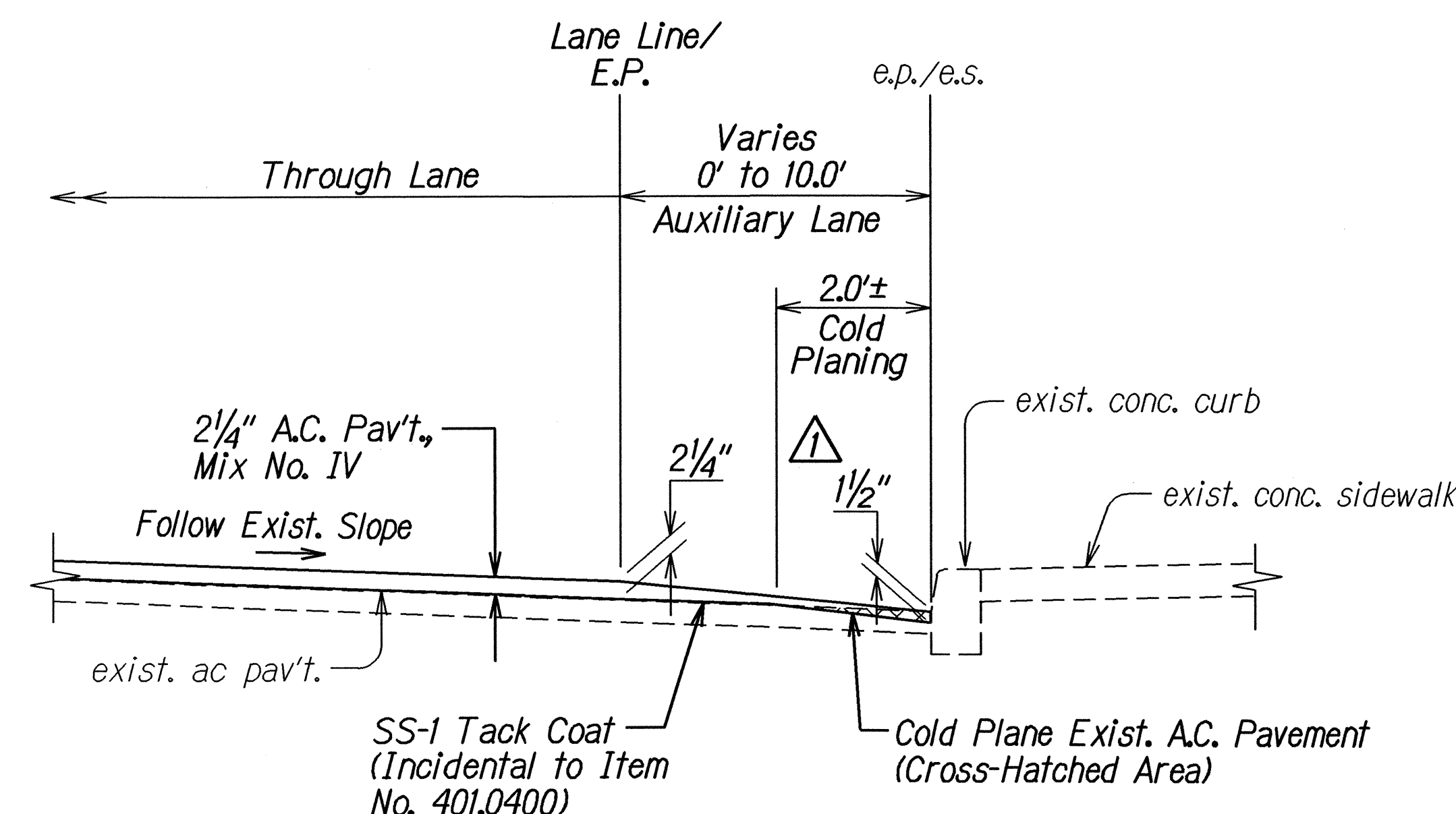


RESURFACING AT # STA. 146+00± TO # STA. 149+00± o/s LT.
Not to Scale

* Asphalt Pavement, Mix No. V shall be used from E.S. to E.P.
A.C. Pavement, Mix No. V will be paid for under Contract
Item No. 401.0400 - Asphalt Concrete Pavement, Mix No. IV.



**RESURFACING AT EXIST. CONC. CURB AND SIDEWALK LOCATIONS
BETWEEN # STA. 180+60± AND # STA. 202+30±**
Not to Scale

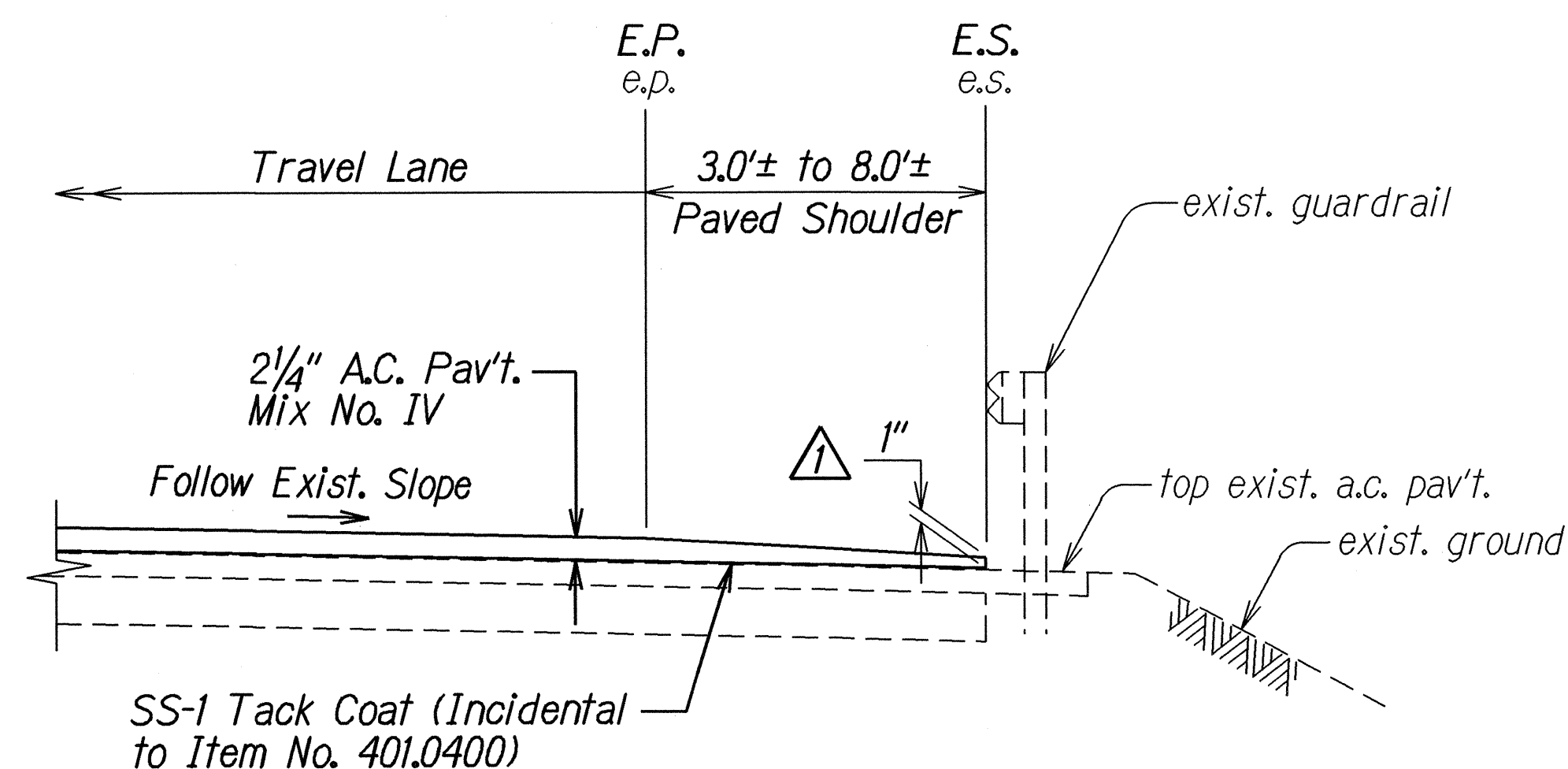


**RESURFACING AT EXIST. CONC. CURB AND SIDEWALK LOCATIONS
BETWEEN # STA. 202+30± AND # STA. 203+10±**
Not to Scale

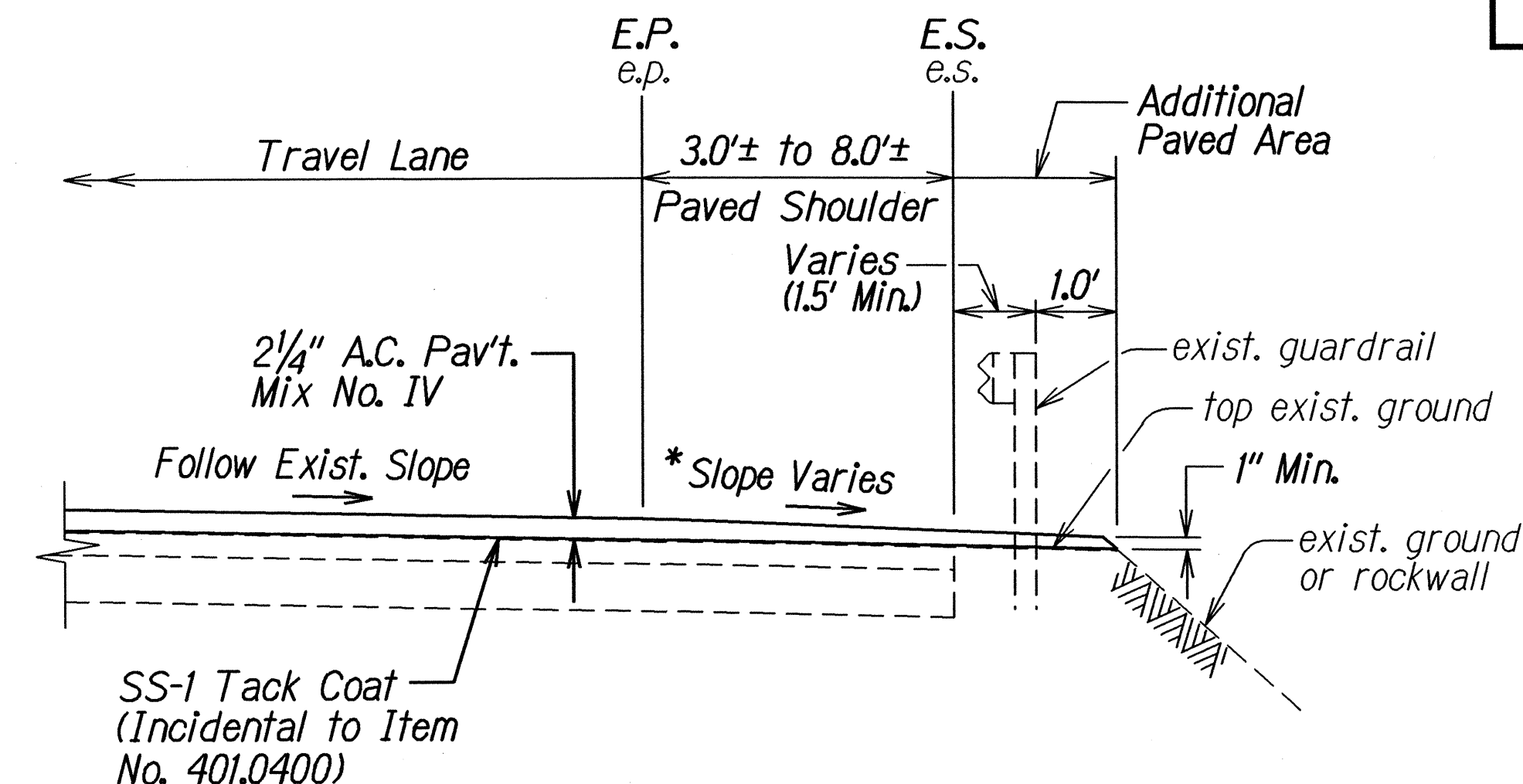
SURVEY PLOTTED BY	DATE
DESIGNED BY	2/27/04
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	

11/17/04	Added Note & Revised Callout/Dimension
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYPICAL SECTIONS	
KUHIO HIGHWAY RESURFACING	
Vicinity of Hanamaulu	
Project No. 56A-01-04M	
Scale: As Shown	Date: Nov. 2004
SHEET No. 3 OF 10 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	ADD. 9	48

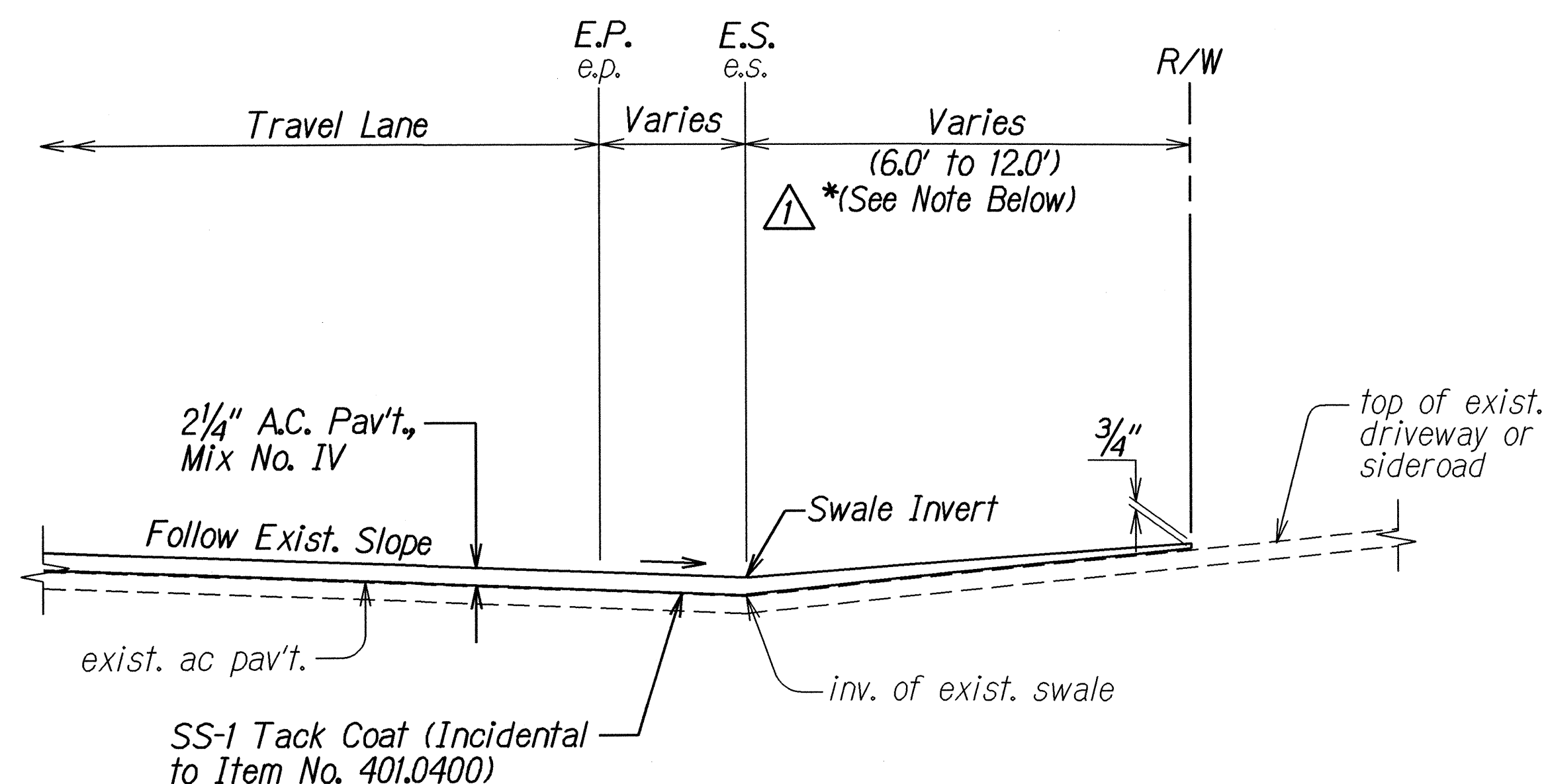


**RESURFACING AT EXIST. GUARDRAIL LOCATIONS
BETWEEN STA. 144+50± AND STA. 158+60±**
Not to Scale



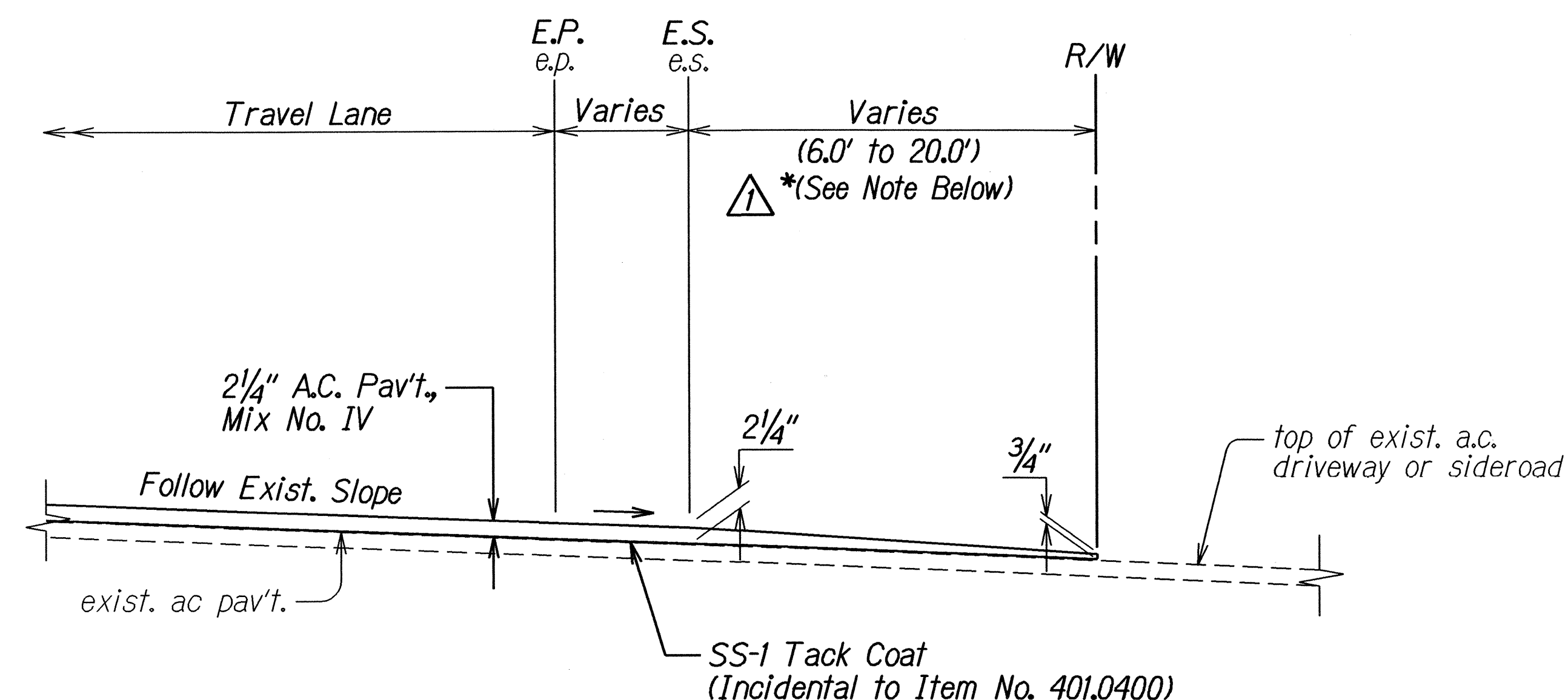
⚠ * For exist. shoulder slope less than 5%, follow existing shoulder slope.
For exist. shoulder slope equal to or greater than 5%, use 5% shoulder slope.
At superelevation, follow existing shoulder slope.

**RESURFACING AT EXIST. GUARDRAIL LOCATIONS
BETWEEN STA. 160+20± AND STA. 179+00±**
Not to Scale



⚠ * AC Pav't, Mix No. V shall be used from E.P. to R/W.
AC Pav't, Mix No. V will be paid for under Contract
Item No. 401.0400 - AC. Pavement, Mix No. IV.

**RESURFACING AT PAVED DRIVEWAYS WITH SWALE
BETWEEN STA. 144+50± AND STA. 179+80± RT.**
Not to Scale



⚠ * AC Pav't, Mix No. V shall be used from E.P. to R/W.
AC Pav't, Mix No. V will be paid for under Contract
Item No. 401.0400 - AC. Pavement, Mix No. IV.

**RESURFACING AT PAVED DRIVEWAYS WITHOUT SWALE
BETWEEN STA. 144+50± AND STA. 179+80± RT.
AT PAVED DRIVEWAYS AND SIDEROADS
BETWEEN STA. 194+00± AND STA. 202+00± LT.**
Not to Scale

SURVEY PLOTTED BY	DATE
DRAWN BY	2/27/04
DESIGNED BY	
CHECKED BY	
NOTED BY	
PLANNED BY	
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
DATE	

	11/17/04	Revised Callout/Dimension ϕ Added and Revised Note
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

KUHIO HIGHWAY RESURFACING

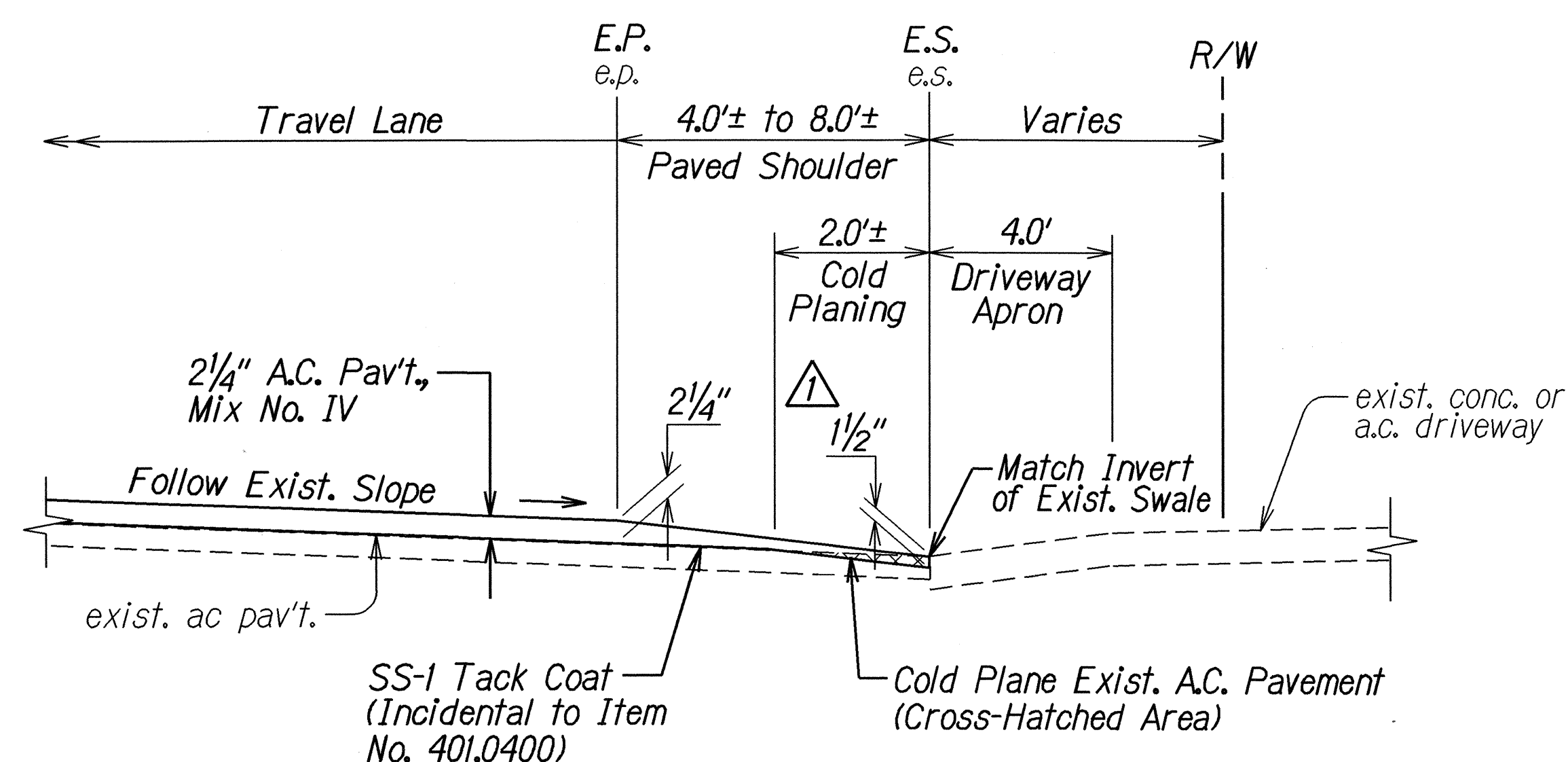
Vicinity of Hanamaulu

Project No. 56A-01-04M

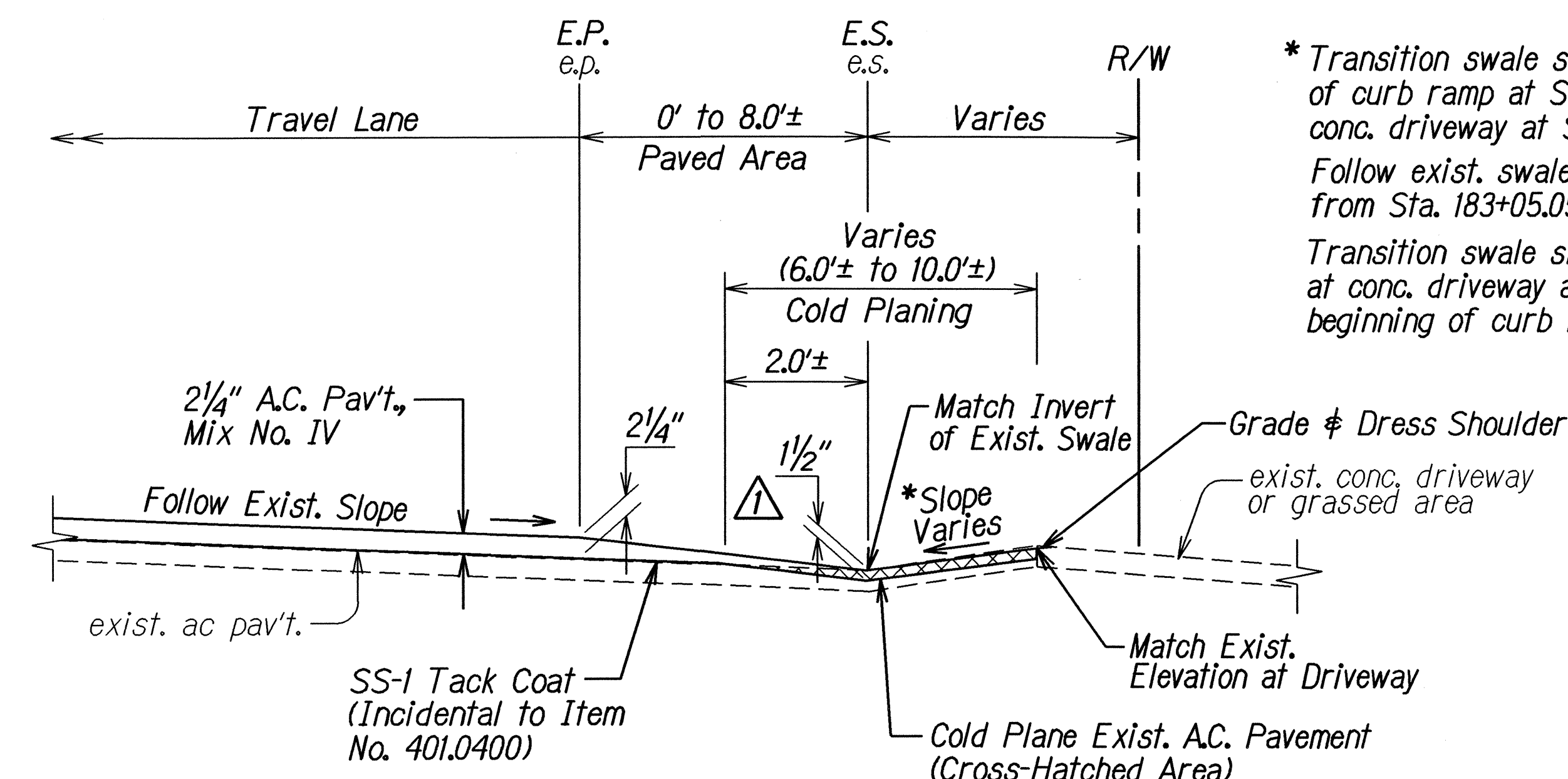
Scale: As Shown Date: Nov. 2004

SHEET No. 4 OF 10 SHEETS

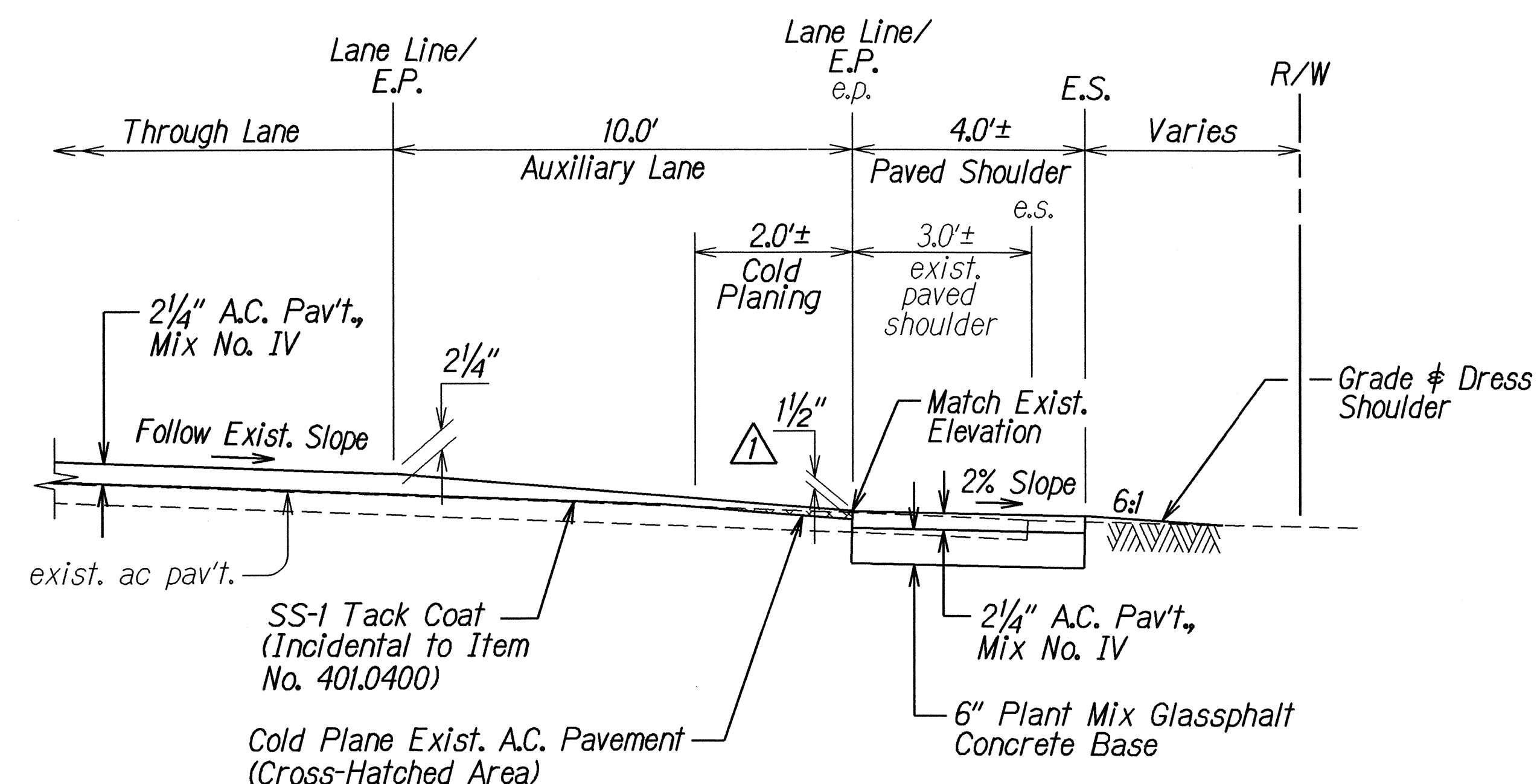
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	ADD. 10	48



**RESURFACING AT CONCRETE DRIVEWAY APRON LOCATIONS
BETWEEN STA. 181+00± AND STA. 200+50±**
Not to Scale

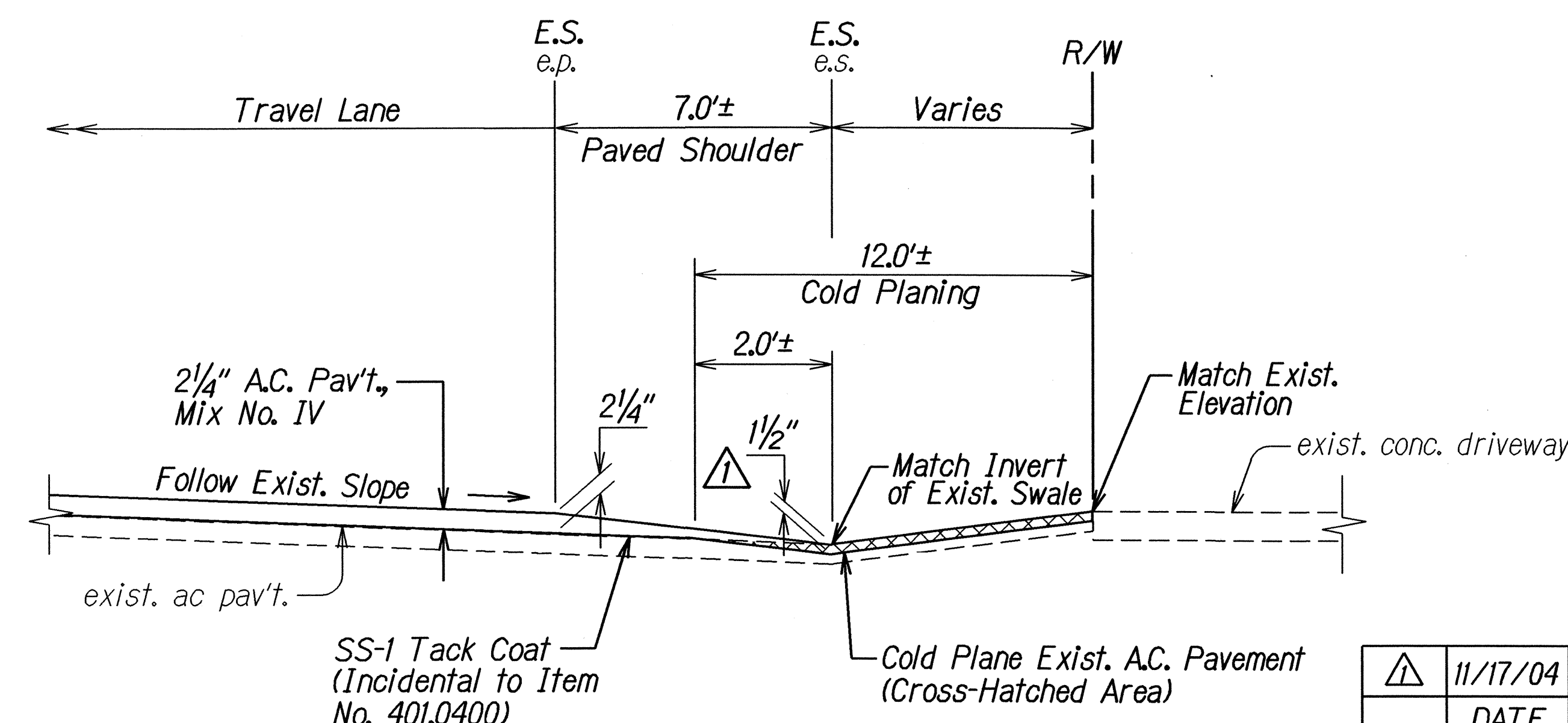


RESURFACING AT STA. 182+69.36± TO STA. 188+57.47 o/s Rt.
Not to Scale



RESURFACING AT STA. 194+92± TO STA. 195+57± o/s Rt.
Not to Scale

Note: Excavation for paved shoulder reconstruction and/or widening shall be paid for under Contract Item No. 651.0100 - Excavation for Reconstruction of Weakened Pavement Areas.

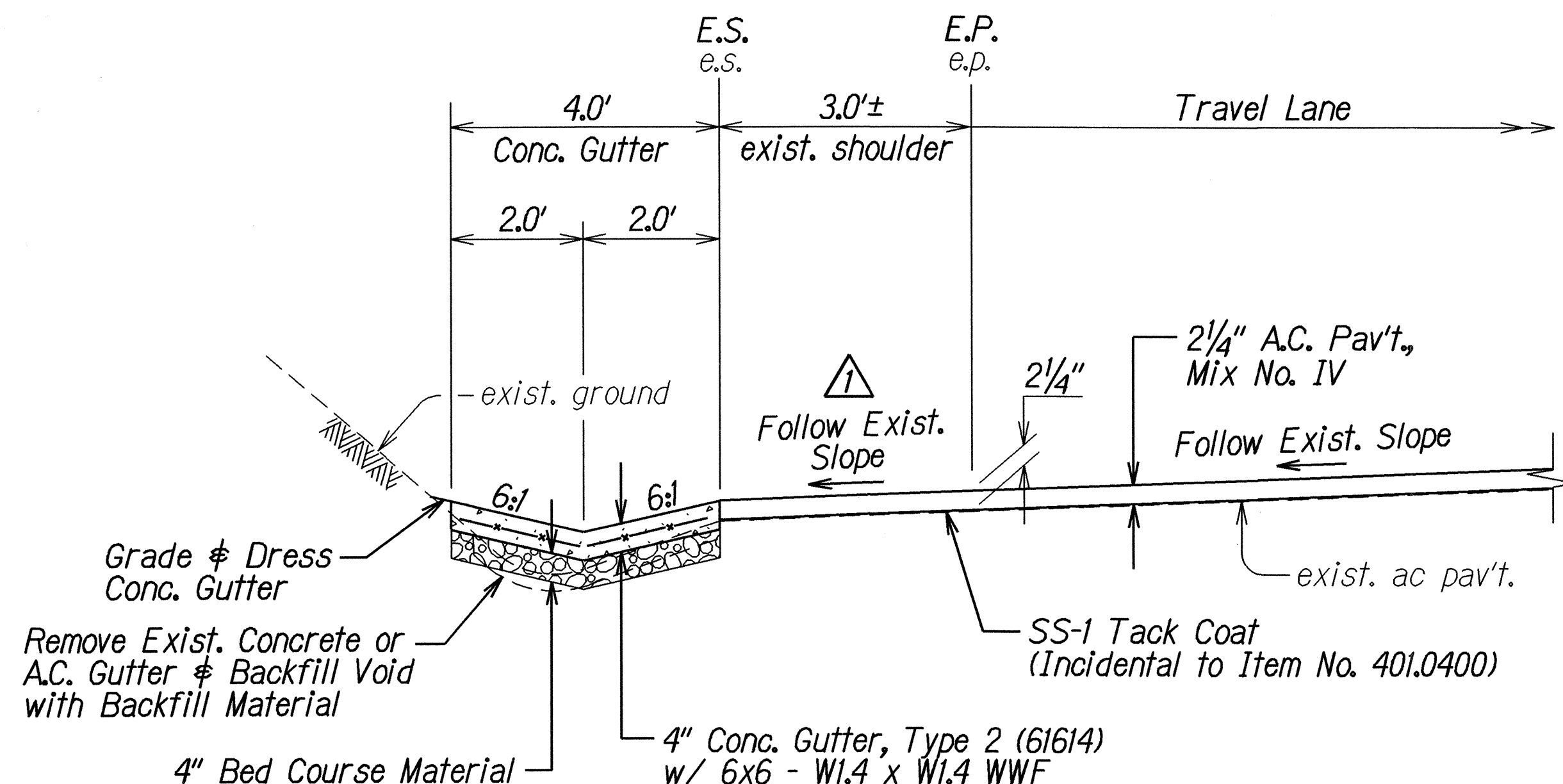


RESURFACING AT STA. 200+50± TO STA. 201+55 o/s Rt.
Not to Scale

SURVEY PLOTTED BY	DATE
DESIGNED BY	2/27/04
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
PLAN	
SECTION	
DETAIL	

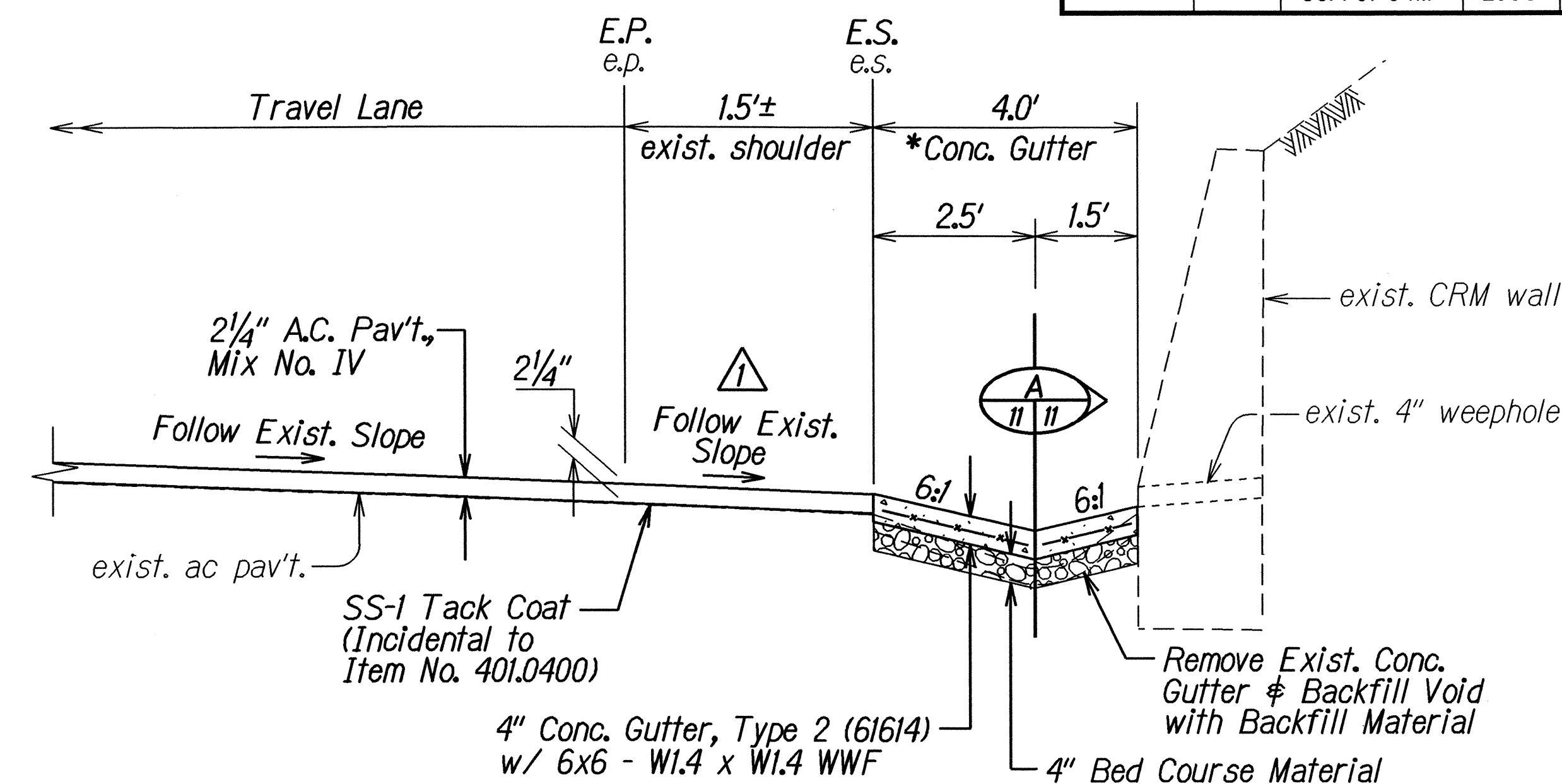
	11/17/04	Revised Callout/Dimension
	DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
<u>TYPICAL SECTIONS</u>		
<u>KUHIO HIGHWAY RESURFACING</u>		
<i><u>Vicinity of Hanamaulu</u></i>		
<i><u>Project No. 56A-01-04M</u></i>		
Scale: As Shown		Date: Nov. 2004
SHEET No. 5 OF 10 SHEETS		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	ADD. 11	48



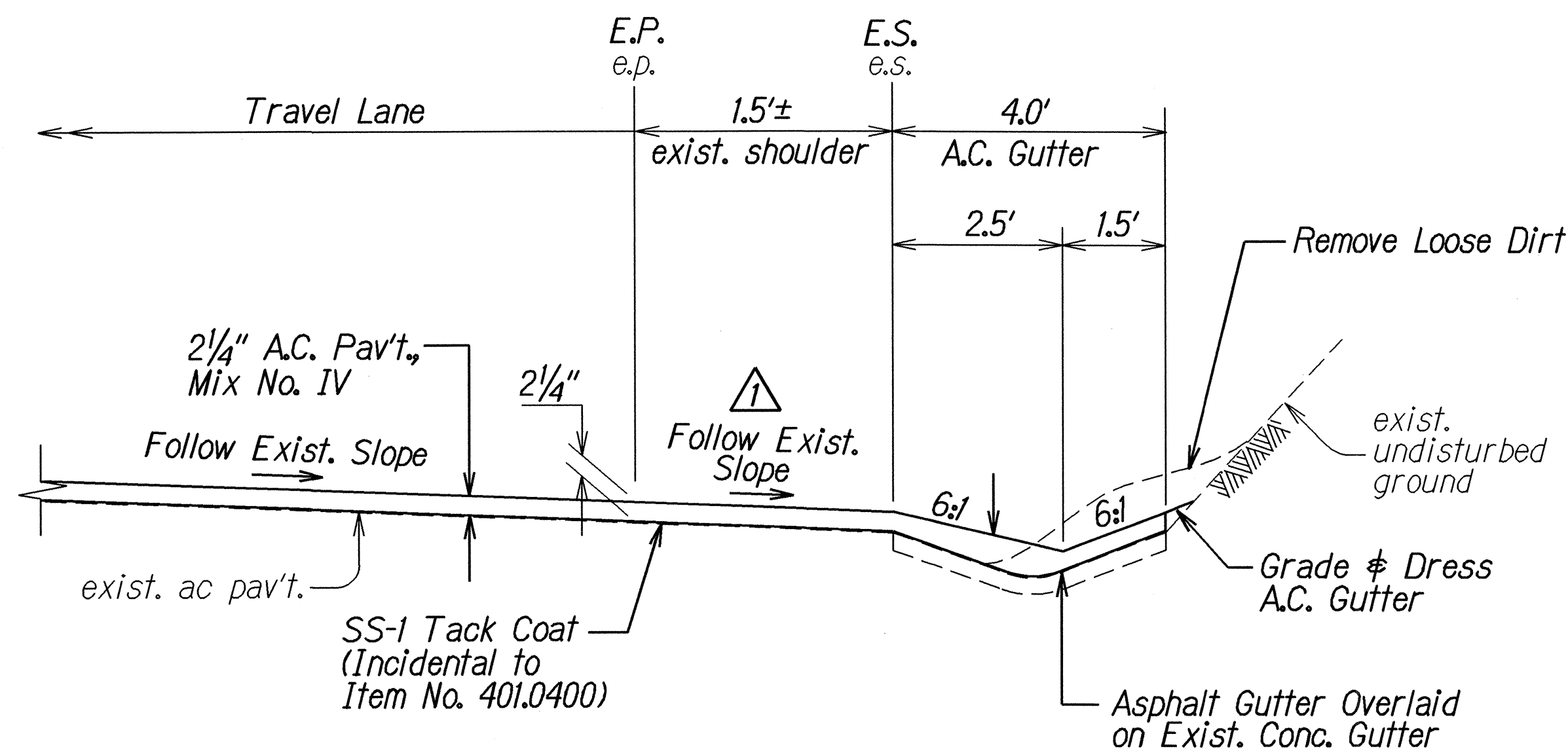
- Notes:
1. See Plan Sheet No. 33 for gutter transition from Sta. 157+58 to Sta. 157+82.
 2. See Plan Sheet No. 33 for gutter transition from Sta. 170+50 to Sta. 170+68.
 3. See Plan Sheet No. 12 and No. 33 for gutter details at Nuku Street.

**SECTION AT EXISTING GUTTER LOCATIONS
BETWEEN # STA. 157+82± AND # STA. 170+50± o/s LT.**
Not to Scale

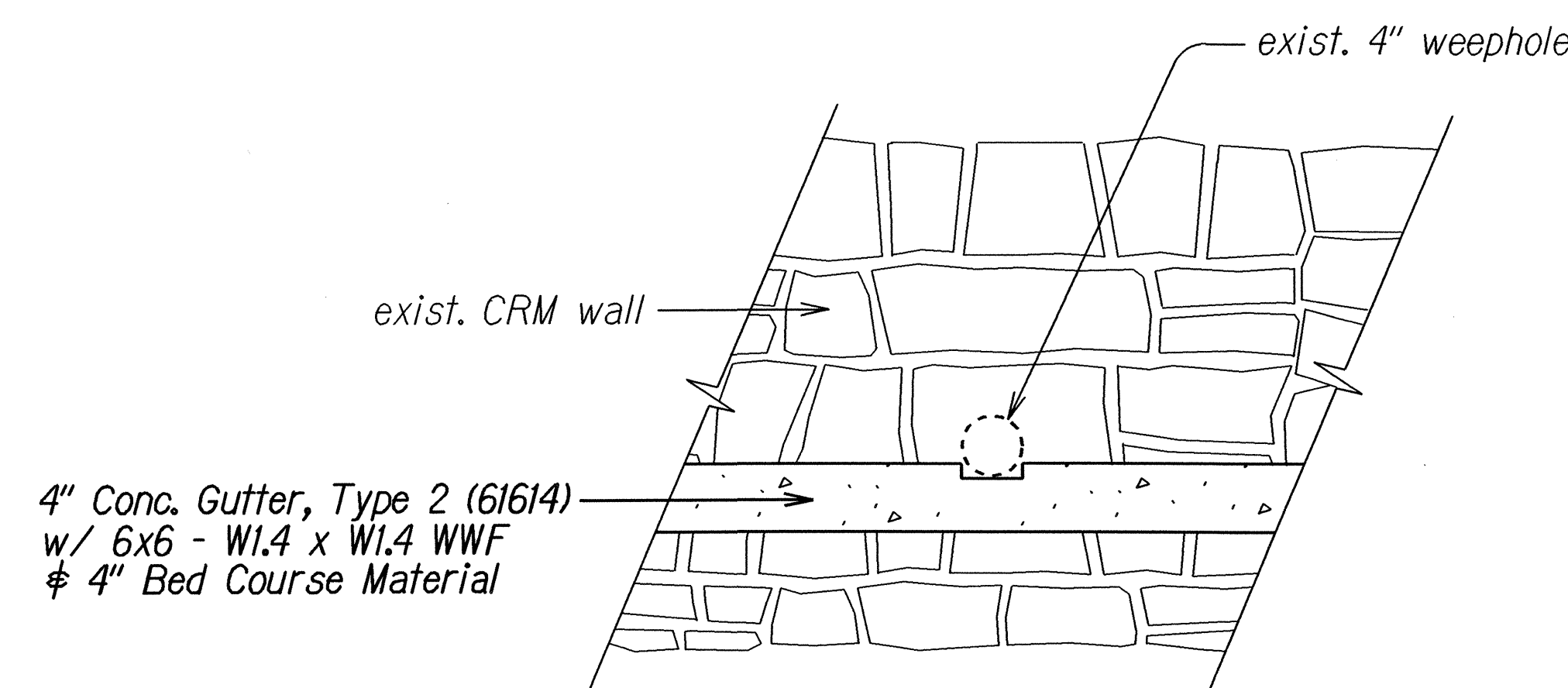


*Note: Concrete gutter shall be paid for under contract Item No. 609.2214 - Gutter, Type 2 (61614).

**SECTION AT EXISTING GUTTER LOCATIONS
BETWEEN # STA. 166+42± AND # STA. 168+62± o/s RT.**
Not to Scale



**SECTION AT EXISTING GUTTER LOCATIONS
BETWEEN # STA. 168+62± AND # STA. 170+38± o/s RT.**
Not to Scale

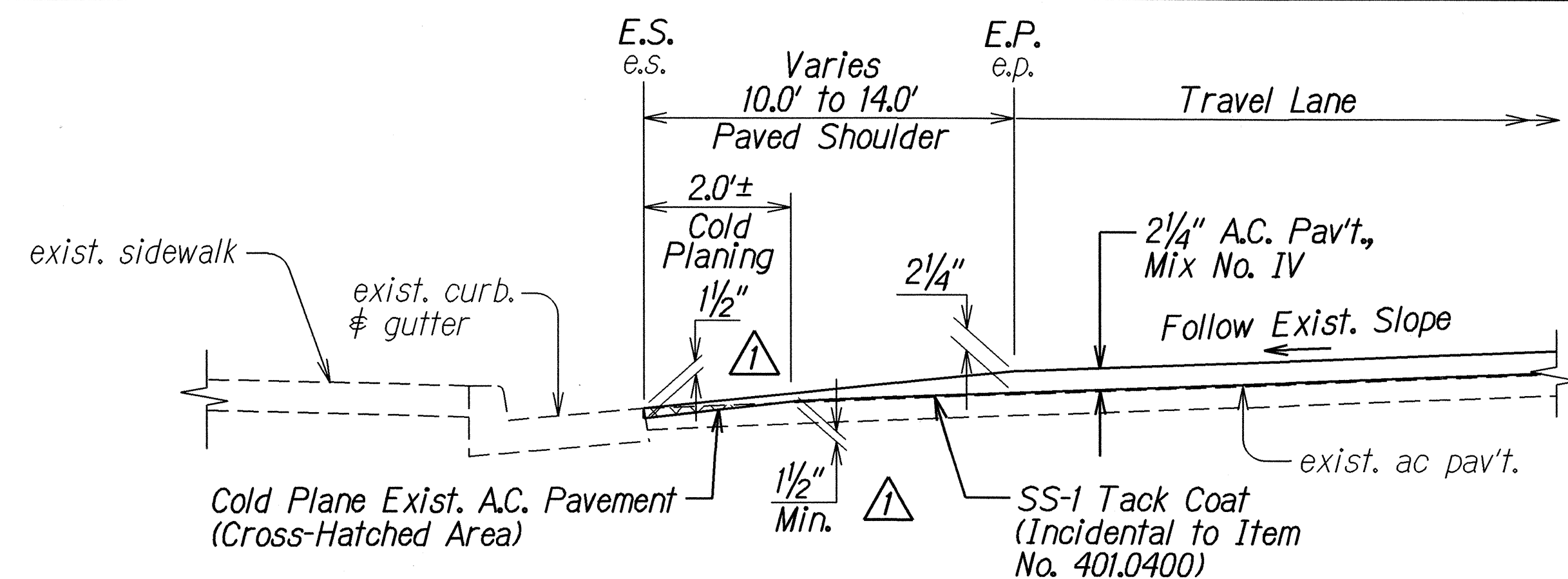


SECTION A
Not to Scale

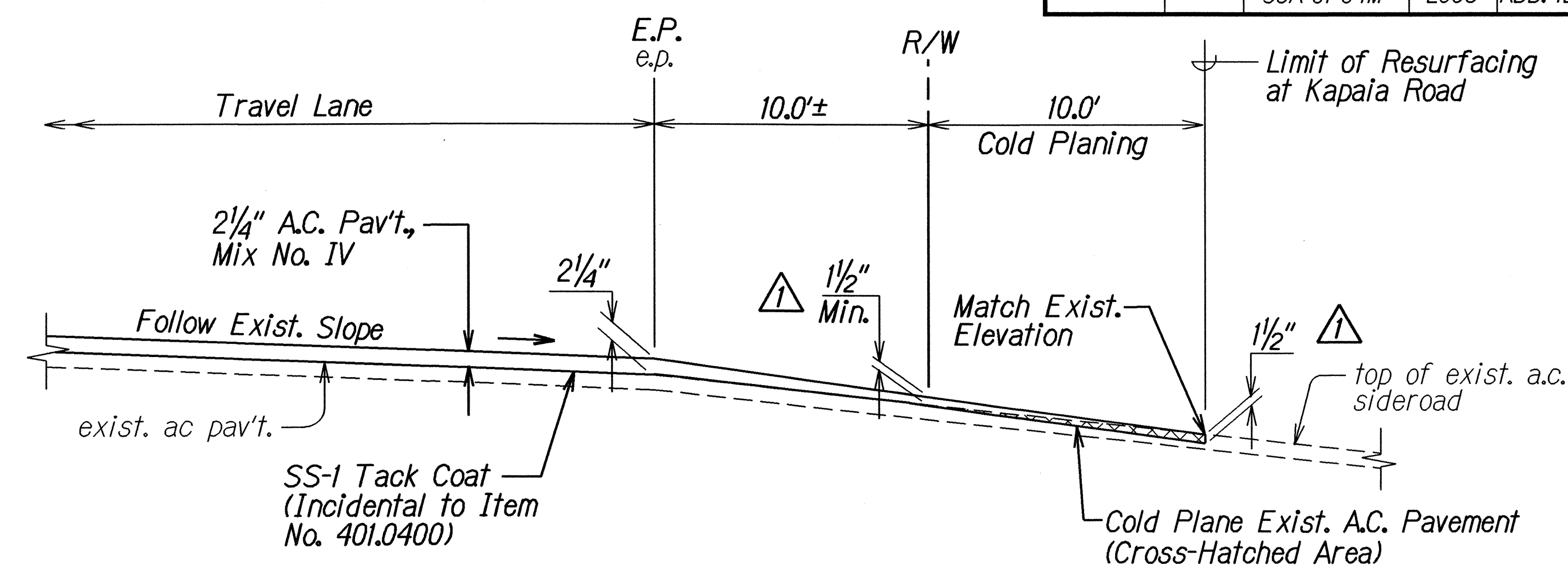
11/17/04	Deleted Note #1, Renumbered Notes Accordingly & Revised Shoulder Slope Callout
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TYPICAL SECTIONS KUHIO HIGHWAY RESURFACING Vicinity of Hanamaulu Project No. 56A-01-04M Scale: As Shown Date: Nov. 2004 SHEET No. 6 OF 10 SHEETS	

ORIGINAL PLAN	DATE 2/27/04
NOTE BOOK	DESIGNED BY
QUANTITIES BY	CHECKED BY
NO.	

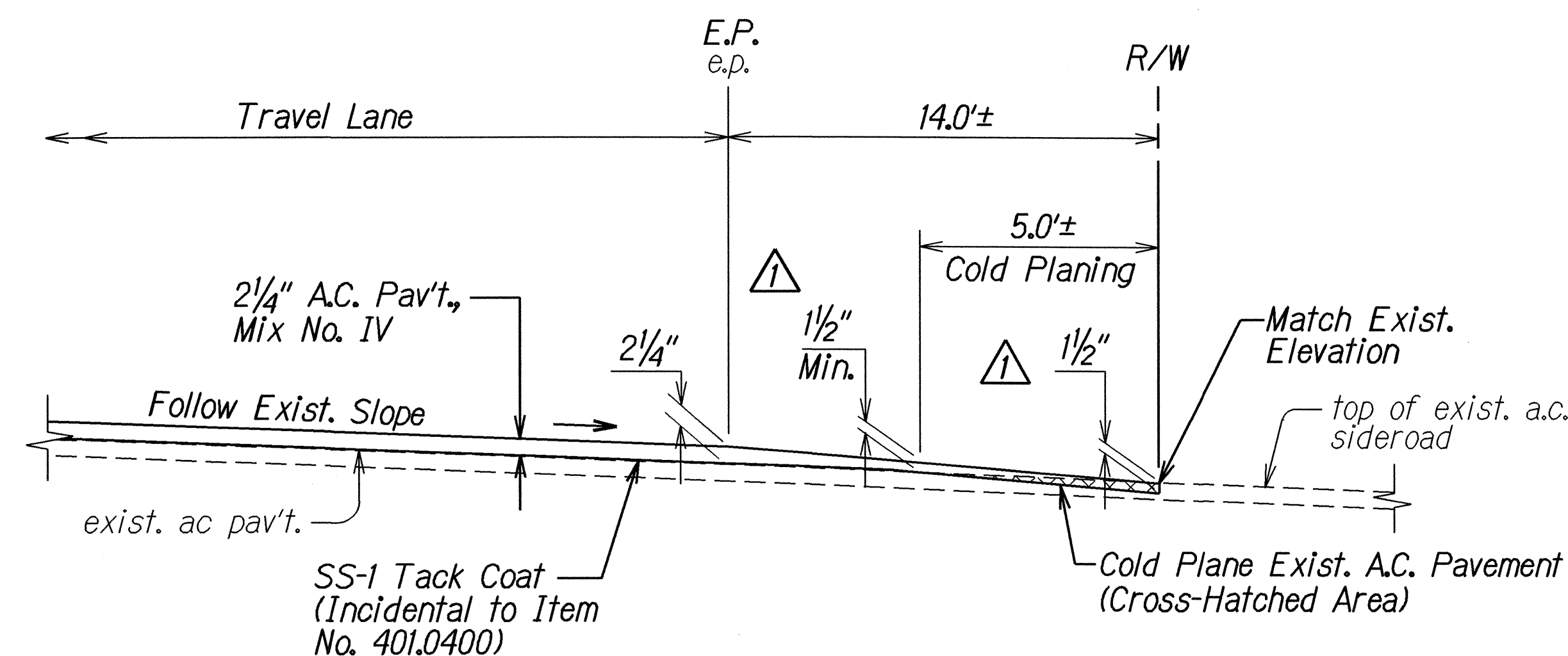
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	ADD. 12	48



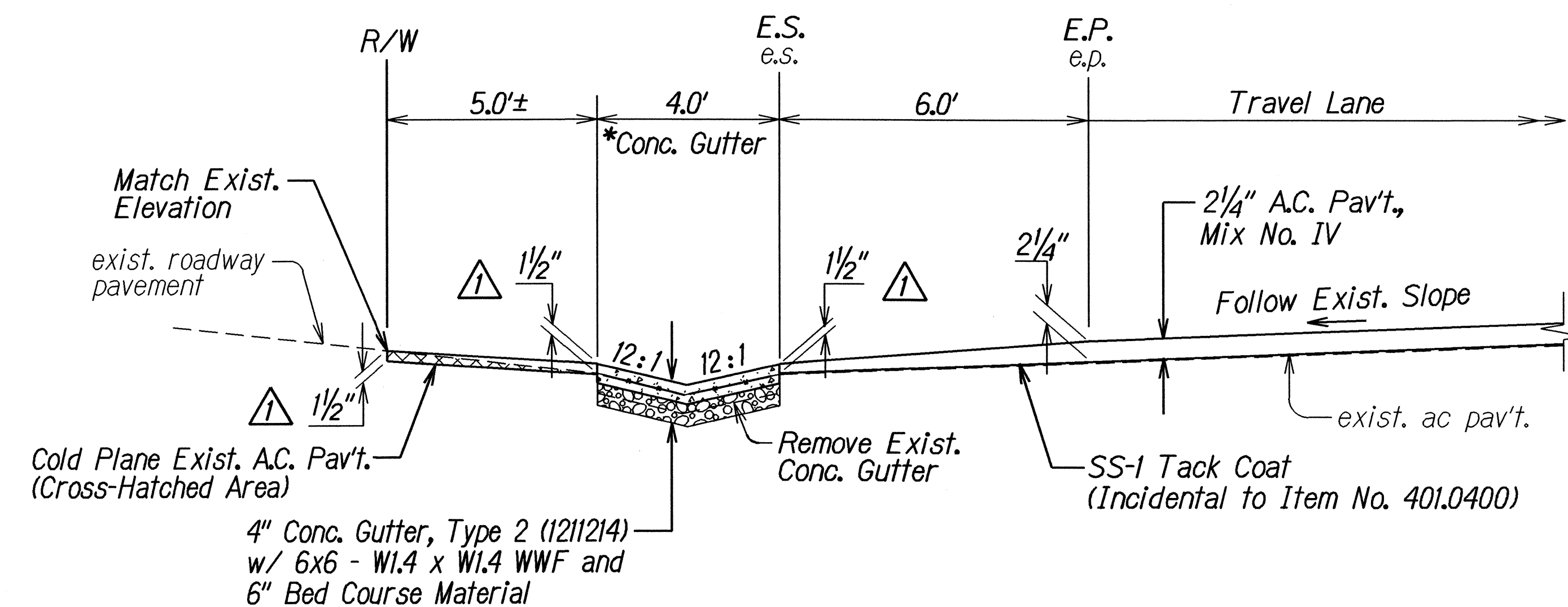
@ Sta. 204+14± to @ Sta. 210+55± o/s Lt.
RESURFACING AT EXISTING CURB & GUTTER LOCATIONS
 Not to Scale



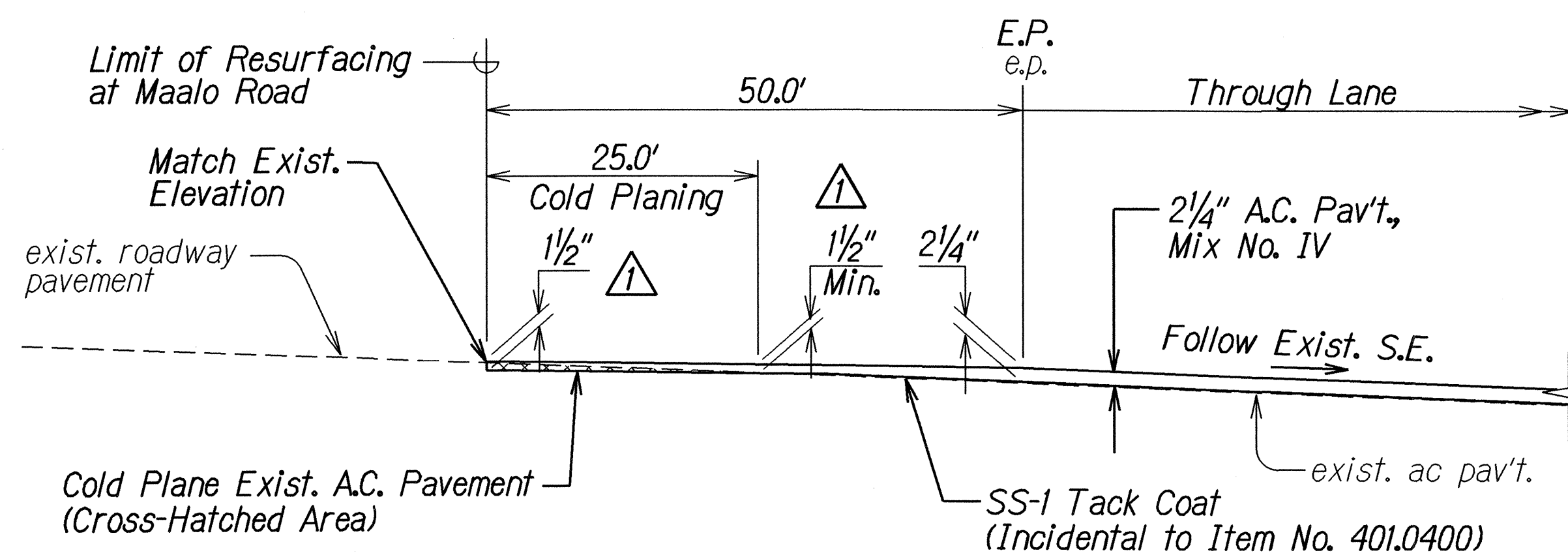
RESURFACING AT KAPAIA ROAD
 Not to Scale



RESURFACING AT LAUKINI ROAD
 Not to Scale



@ Sta. 170+68± to @ Sta. 171+18± o/s Lt.
RESURFACING AT NUKU STREET
 Not to Scale



RESURFACING AT MAALO ROAD
 Not to Scale

Notes:

1. Transition concrete gutter cross-slope from 61614 (@ Sta. 170+50 o/s 21' Lt.) to 1211214 (@ Sta. 170+68 o/s 23' Lt.).
2. Gutter transition shall be paid for under contract Item. No. 609.2214 - Gutter, Type 2 (61614).
- * 3. Gutter, Type 2 (1211214) shall be paid for under contract Item. No. 609.2214 - Gutter, Type 2 (61614).

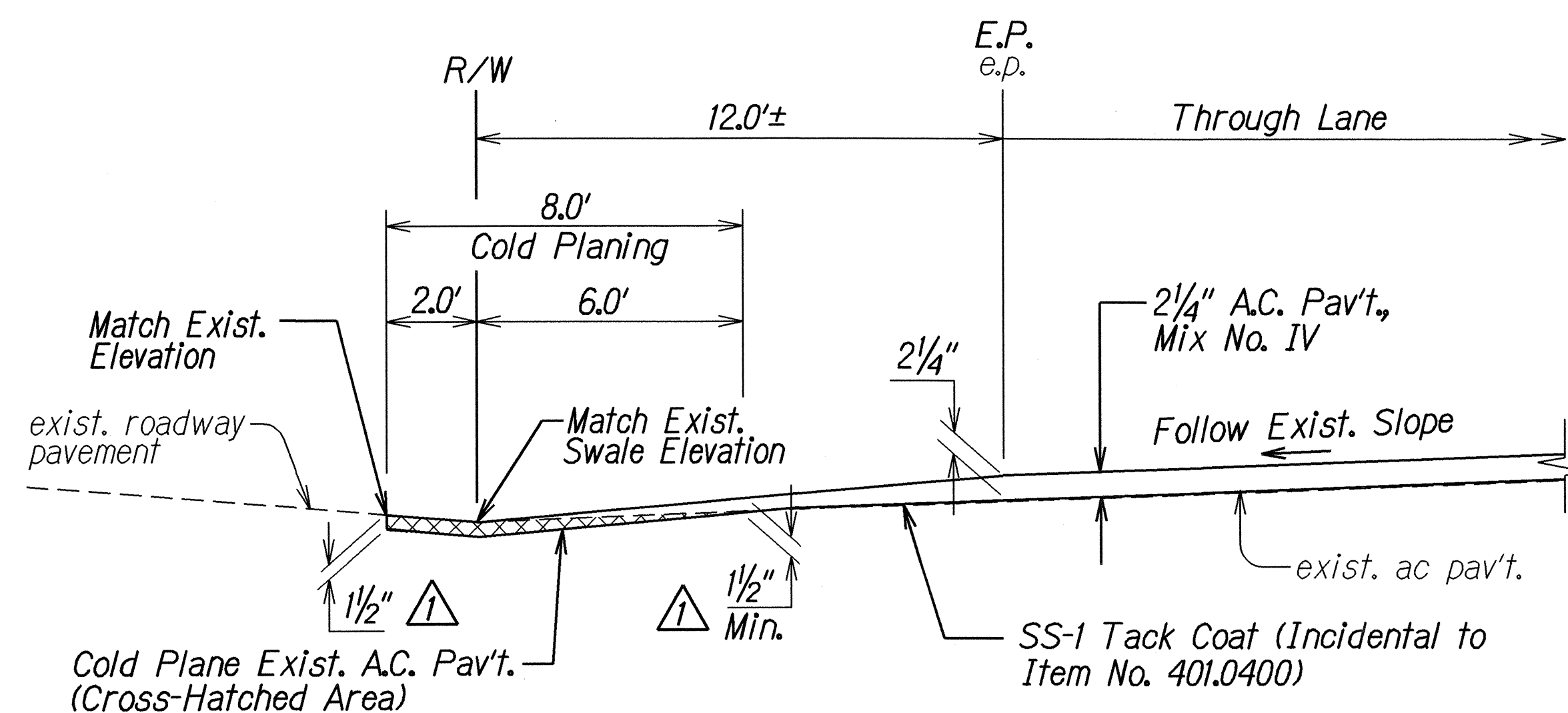
APPROVED: (For Work Within the County Right-of-Way Only)

County Engineer
County of Kauai

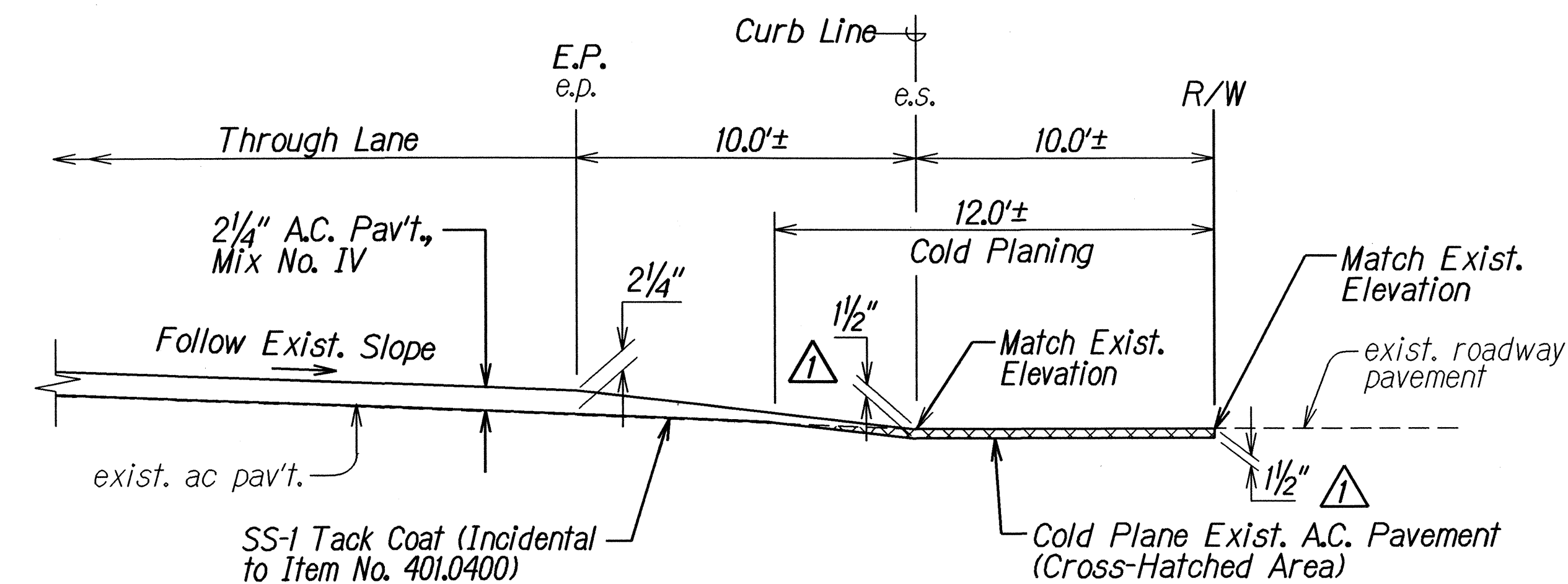
Date

DATE	REVISION
11/17/04	Revised Callout/Dimension
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TYPICAL SECTIONS KUHIO HIGHWAY RESURFACING Vicinity of Hanamaulu Project No. 56A-01-04M	
Scale: As Shown	Date: Nov. 2004
SHEET No. 7 OF 10 SHEETS	

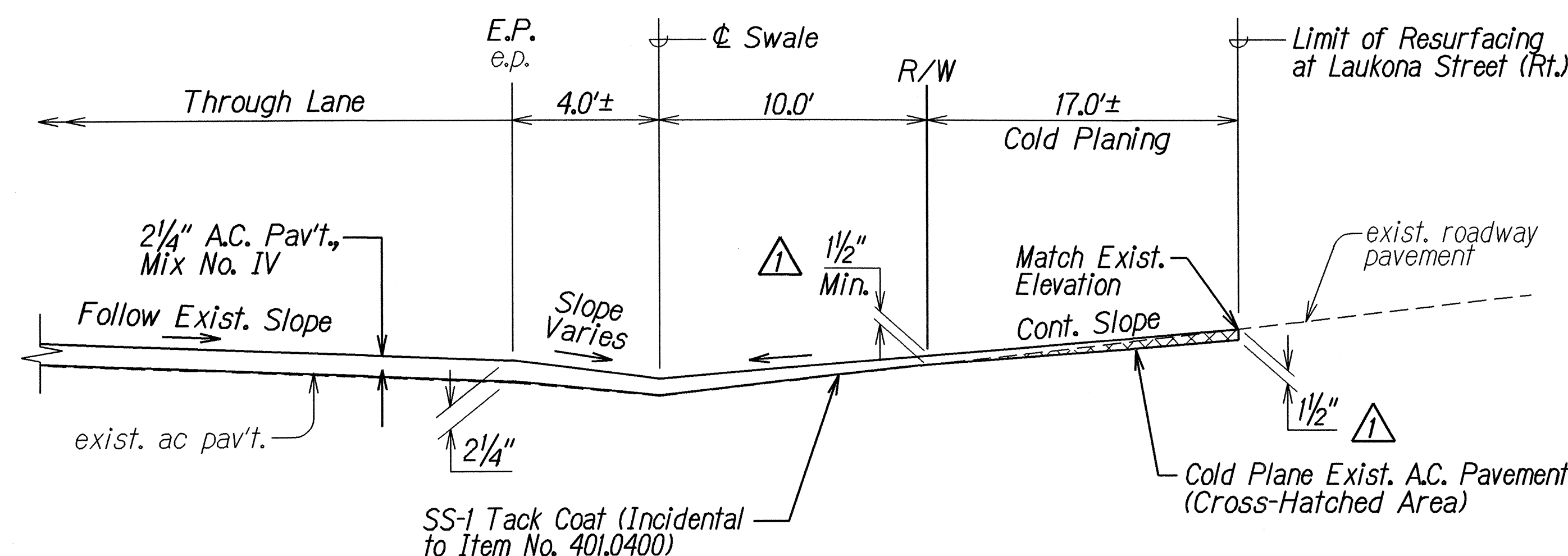
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	ADD. 13	48



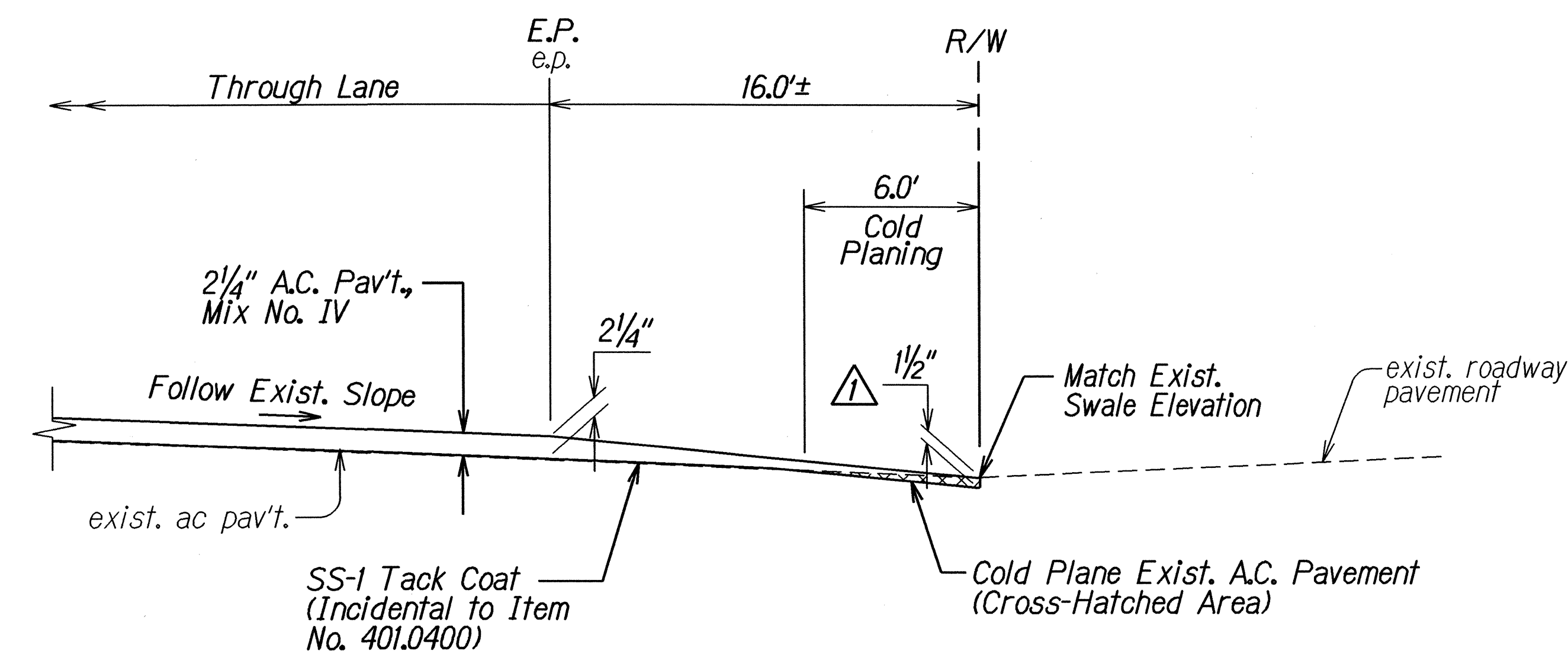
RESURFACING AT LAUKONA STREET o/s LT.
Not to Scale



RESURFACING AT LAULIMA STREET
Not to Scale



RESURFACING AT LAUKONA STREET o/s RT.
Not to Scale



RESURFACING AT HANAMAULU ROAD
Not to Scale

SURVEY PLOTTED BY	DATE
DRAWN BY	2/22/04
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

APPROVED: (For Work Within the County Right-of-Way Only)

County Engineer
County of Kauai

Date

	11/17/04	Revised Callout/Dimension
	DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

KUHIO HIGHWAY RESURFACING

Vicinity of Hanamaulu

Project No. 56A-01-04M

Scale: As Shown Date: Nov. 2004

SHEET No. 8 OF 10 SHEETS

[illegible]

Reconstruction Area

Depth of Excavation (6")

top of exist. a.c. pav't.

Saw Cut

6" Plant Mix Glassphalt Concrete Base

2 1/4" A.C. Pav't., Mix No. IV

Saw Cut

The diagram illustrates a cross-section of a road reconstruction project. A central 'Reconstruction Area' is shown with a 'Depth of Excavation (6")'. Below the existing pavement, there is a '6" Plant Mix Glassphalt Concrete Base' and a '2 1/4" A.C. Pav't., Mix No. IV' layer. 'Saw Cuts' are indicated on both sides of the reconstruction area, and the 'top of exist. a.c. pav't.' is marked on the left side.

6.0'

Minimum Taper

Cold Mix Asphalt Pav't.

Drop-off @ Cold Planed Sections

exist. pav't.

1 1/2" A.C. Pav't,
Mix No. IV

3/4" A.C. Leveling Course,
Mix No. V

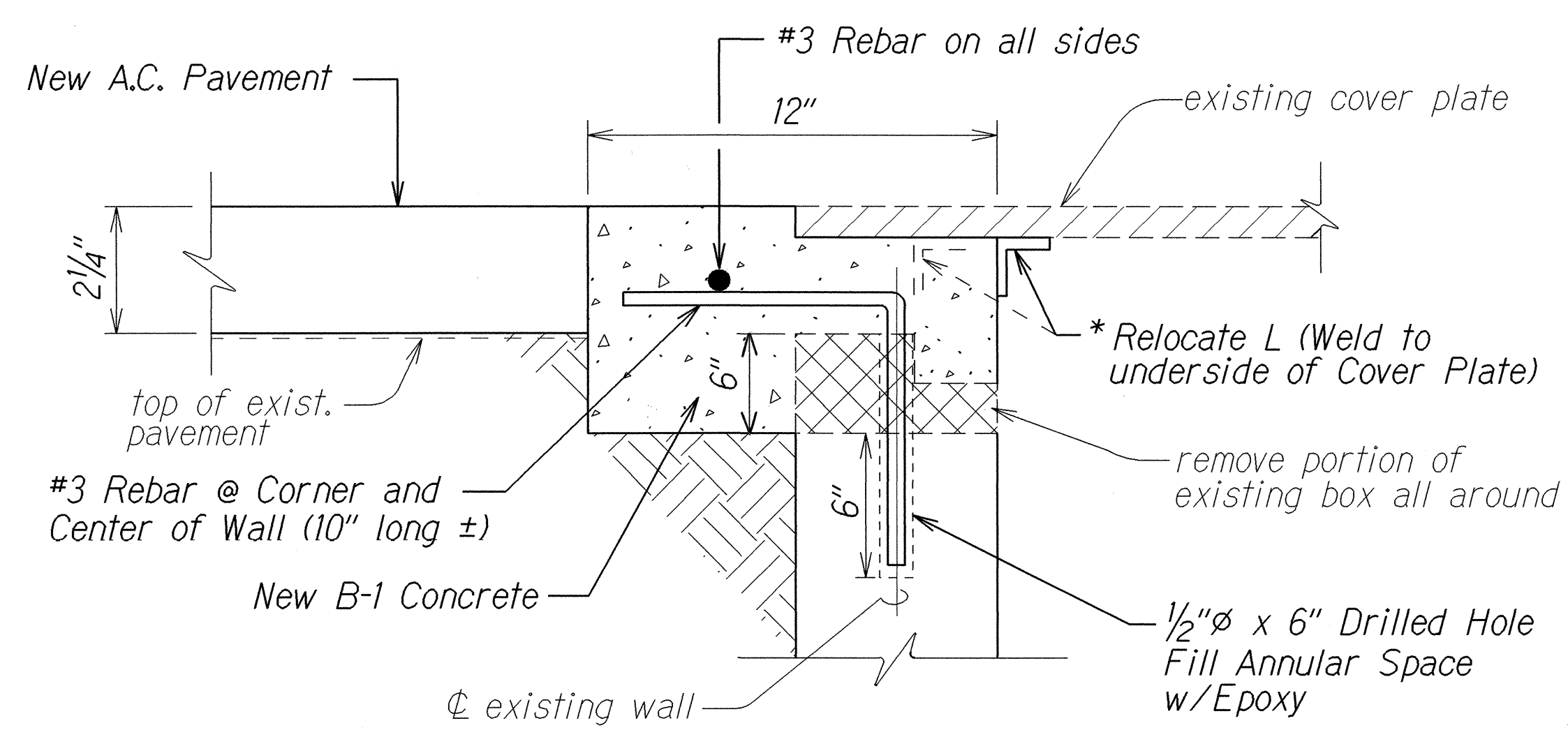
existing a.c.
pav't. structure

Fill Depressions in Exist. A.C. Pav't. with
Leveling Course of A.C. Pav't, Mix No. V
Throughout the Project Limits.

Note: Contractor shall construct temporary pavement taper to prevent sharp pavement drop-offs at all cold planed sections. Prior to final A.C. Mix No. IV placement, temporary pavement taper shall be removed.

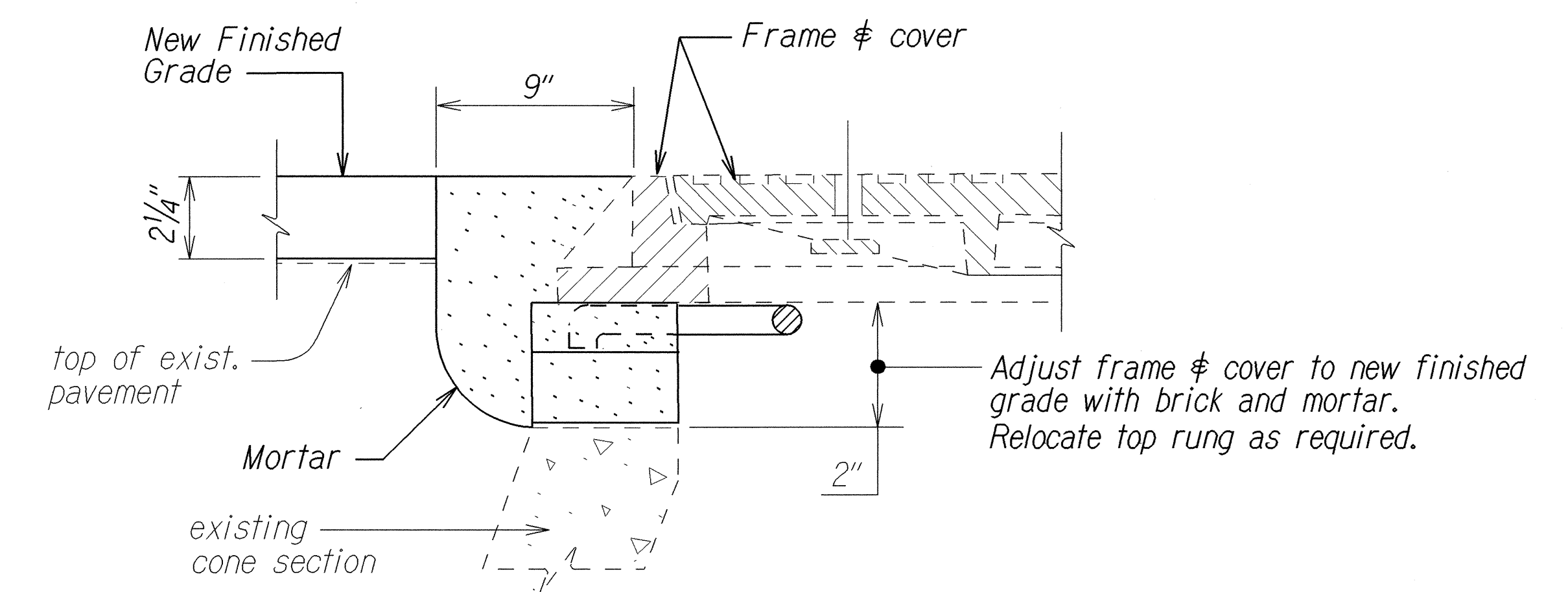
ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE <u>2/27/04</u>
NOTE BOOK	DRAWN BY <u>X</u> _____
24050302dgn	TRACED BY _____
	DESIGNED BY <u>X</u> _____
	QUANTITIES BY _____
	CHECKED BY _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-01-04M	2005	15	48



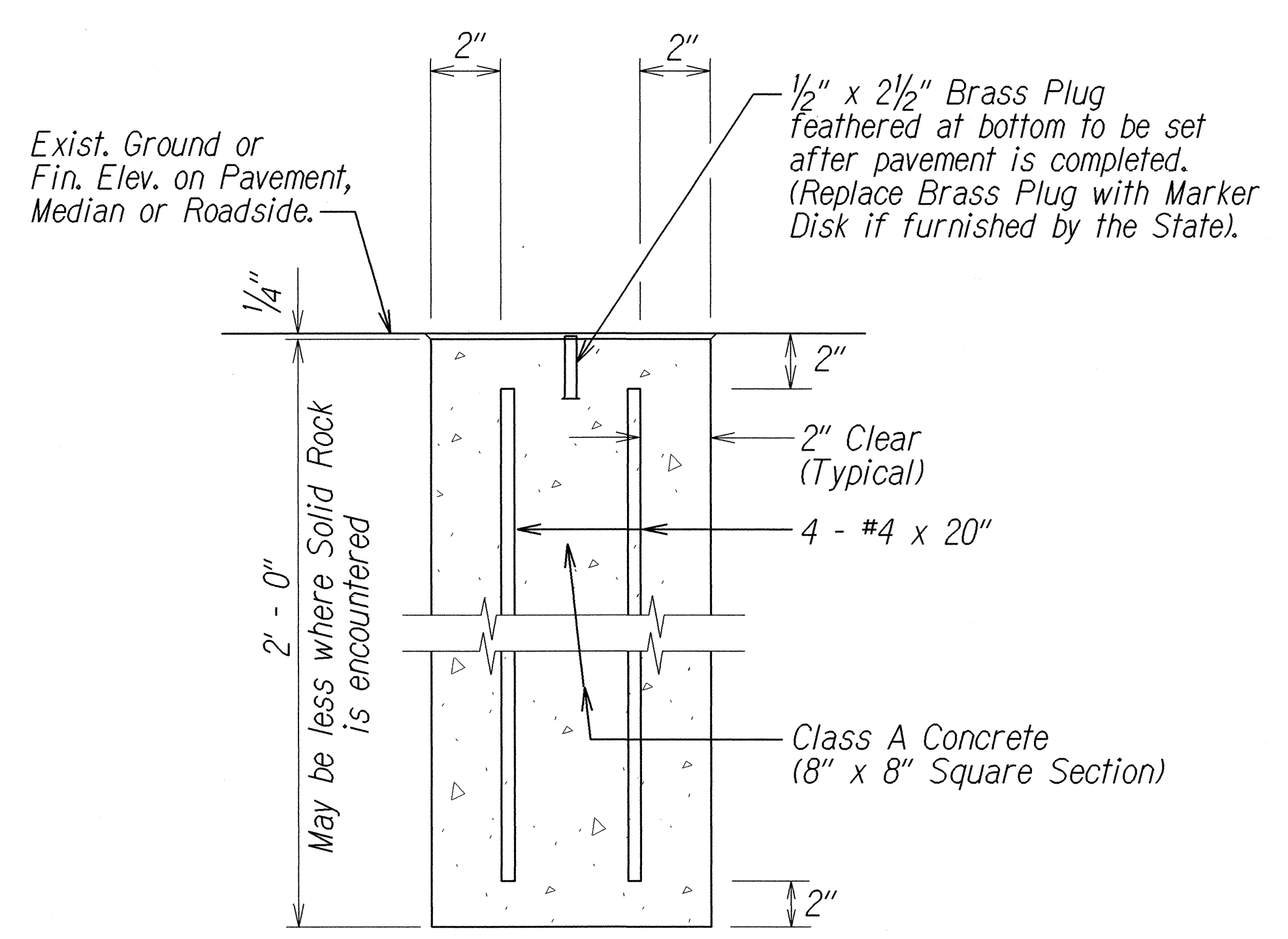
UTILITY BOX ADJUSTMENT DETAIL
Not to Scale

* NOTE: For utility boxes with cover frames, the Contractor shall remove and adjust the frames to the new finished grade by embedding the frame in new concrete section as shown above

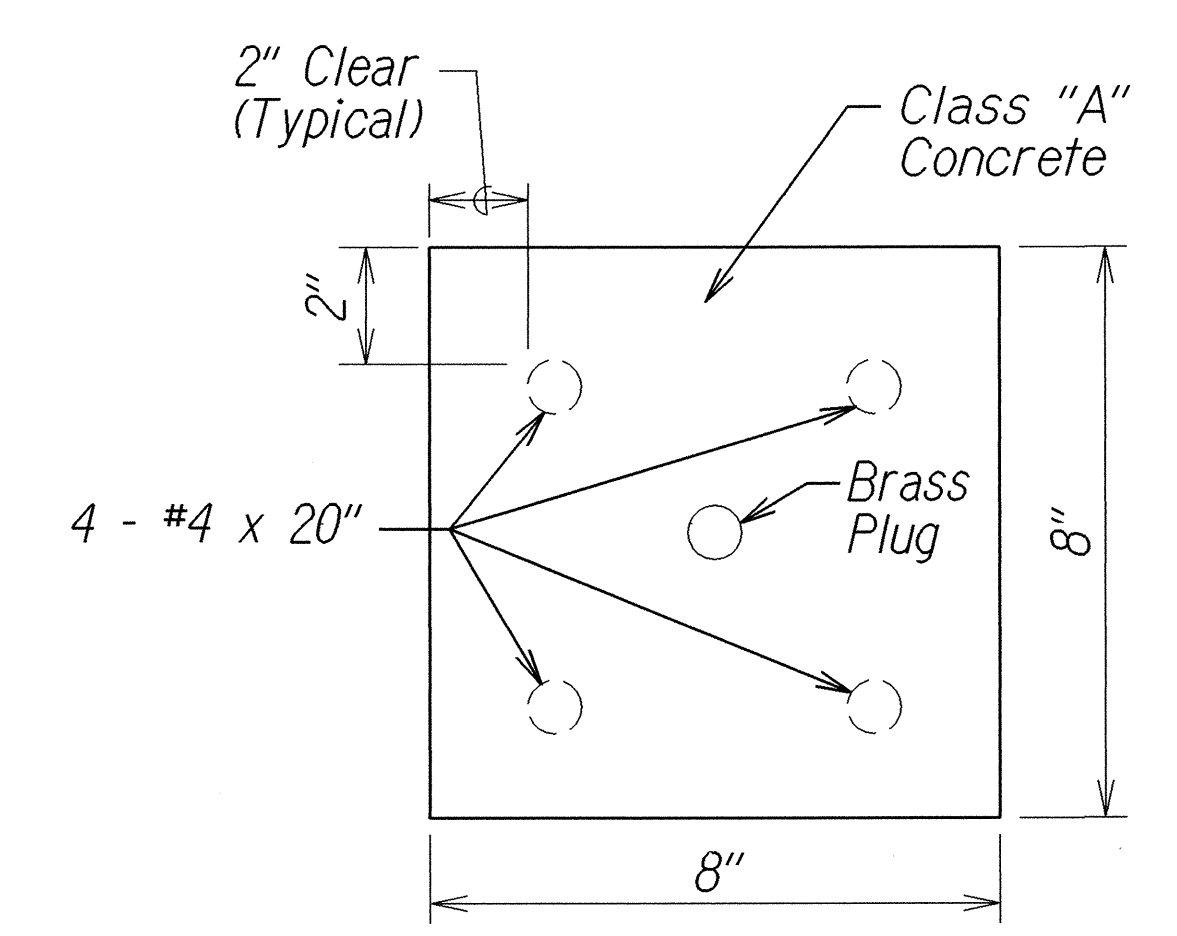


TYPICAL MANHOLE FRAME & COVER ADJUSTMENT
(SEWER, STORM DRAIN & UTILITY MANHOLES)
Not to Scale

NOTE: As an option, the Contractor may use an Adjus-to-Grade four-section extension ring with Safe-Tite seal, as manufactured by the National Utility Products Co. (NUPCO), or approved equal.



DETAIL FOR CENTERLINE & REFERENCE SURVEY MONUMENT
Not to Scale



PLAN VIEW

APPROVED: (For Work Within the County Right-of-Way Only)
Barbara Kuo 6/1/04
County Engineer Date
County of Kauai

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
KUHIO HIGHWAY RESURFACING
Vicinity of Hanamaulu
Project No. 56A-01-04M
Scale: As Shown Date: June 2004
SHEET No. 10 OF 10 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	2/27/04
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
REFERENCE	
NO.	