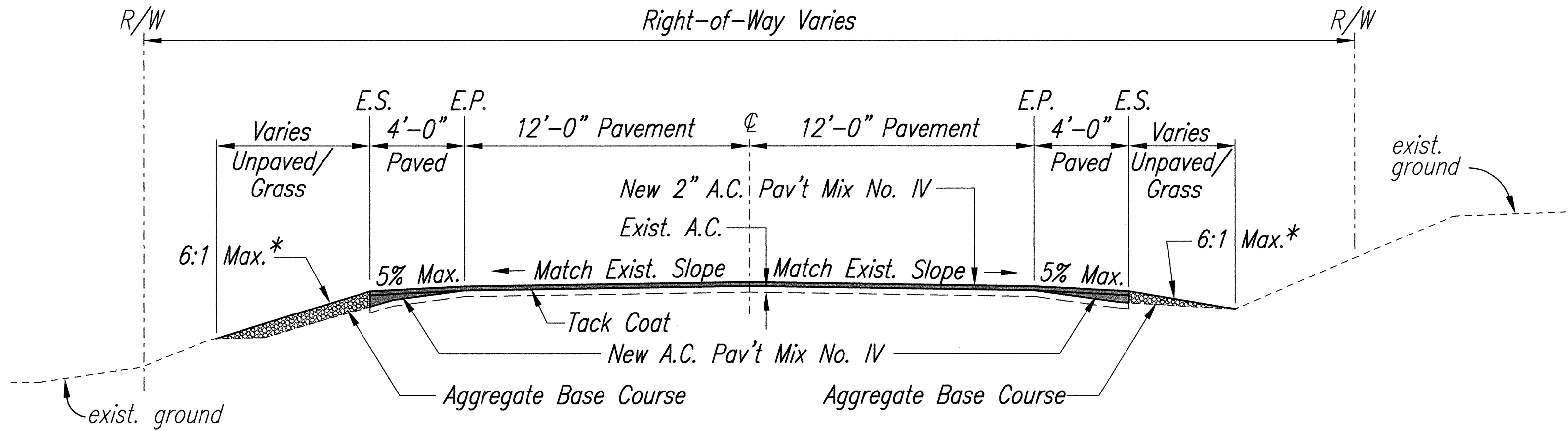
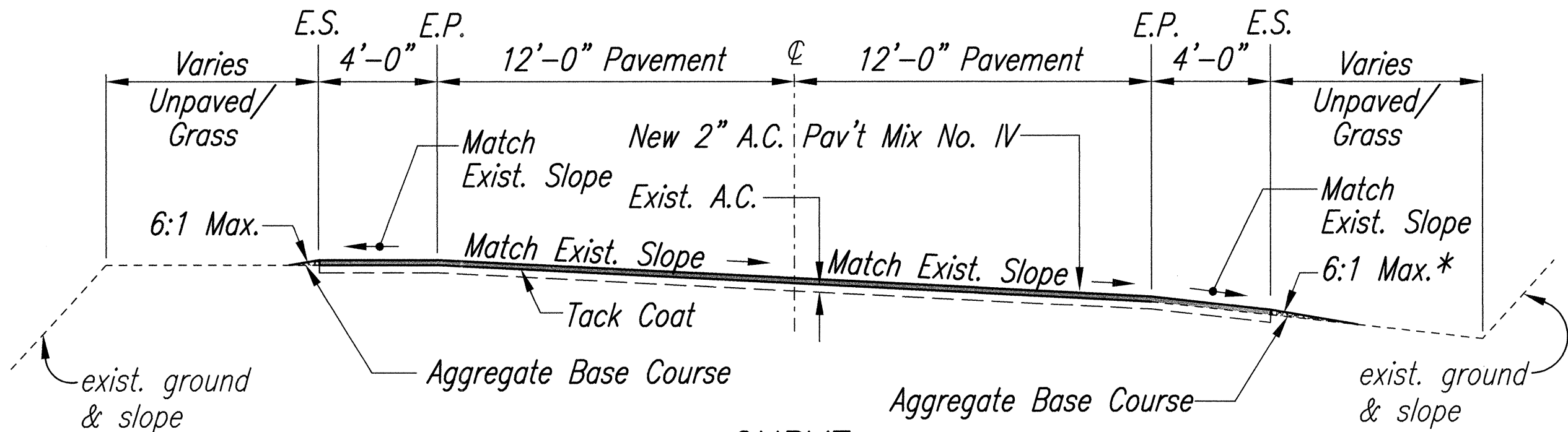


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	190DE-01-99M	1999	5	50



TANGENT



CURVE

Notes:

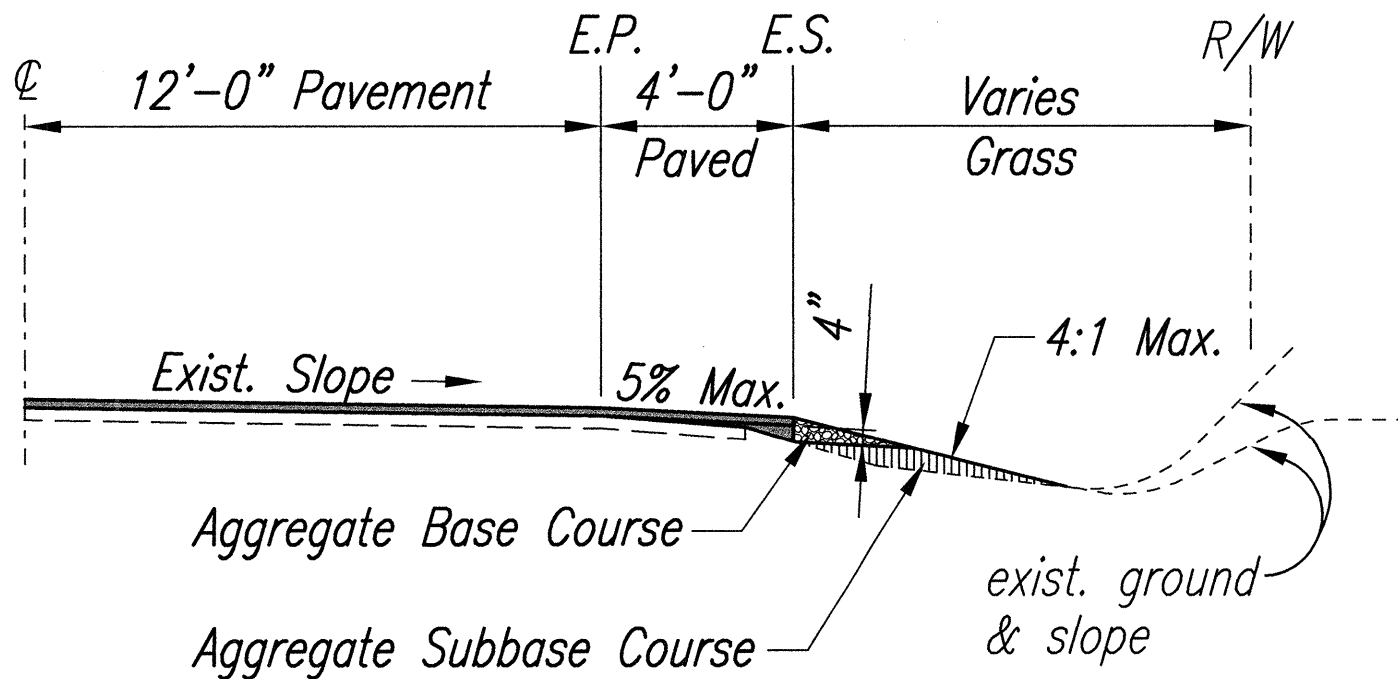
- For Roadway Section w/ Guardrail, See Typ. Guardrail Sec.
- If Exist Condition in Shoulder is Paved, See Tangent Typ. Sec. A.
- Clearing & Grubbing Shall be Provided for Shoulder Areas to be Improved. The Cost Shall be Incidental to Paving Work.
- Aggregate Base/Subbase Course to be Used Only When Suitable Material From Roadway Excavation is Not Available for Shoulder Dressing. See Note 11 on Sheet 3.

* Where Exist Slopes in Areas Beyond Paved Shoulder are Greater than 6:1, a Maximum Slope of 4:1 Shall be Used, as Shown in Detail A, with the Approval of the Engineer.

TYPICAL SECTION - A (12-FT. WIDE LANES)

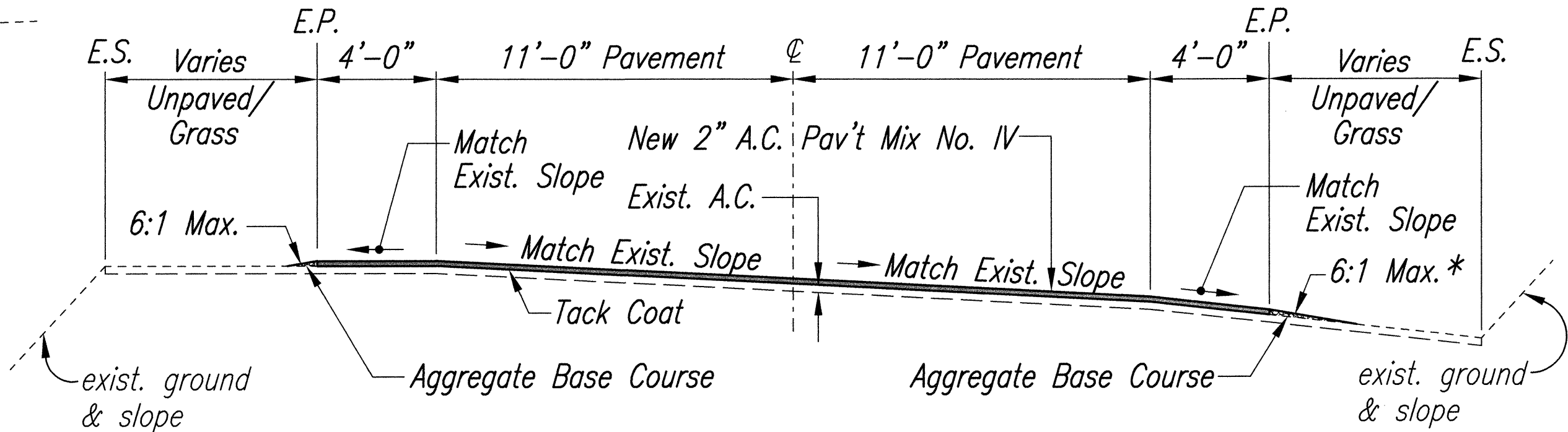
SCALE: 1/4"=1'-0"

From Sta. 197+71± to Sta. 272+00±

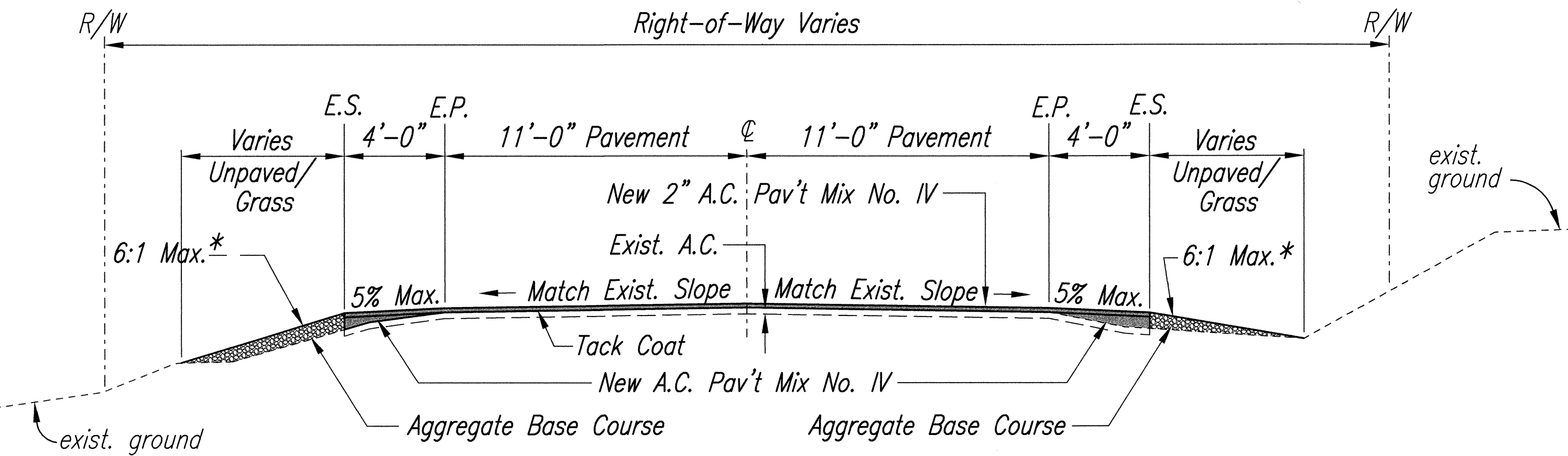


DETAIL A

SCALE: 1/4"=1'-0"



CURVE



TANGENT

Notes:

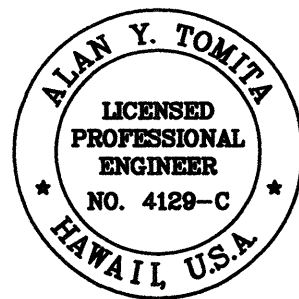
- For Roadway Section w/ Guardrail, See Typ. Guardrail Sec.
- Clearing & Grubbing Shall be Provided for Shoulder Areas to be Improved. The Cost Shall be Incidental to Paving Work.
- Clearing and Grubbing Shall be Incidental to Paving Work.
- Aggregate Base/Subbase Course to be Used Only When Suitable Material From Roadway Excavation is Not Available for Shoulder Dressing. See Note 11 on Sheet 3.

* Where Exist Slopes in Areas Beyond Paved Shoulder are Greater than 6:1, a Maximum Slope of 4:1 Shall be Used, as Shown in Detail A, with the Approval of the Engineer.

TYPICAL SECTION - B (11-FT. WIDE LANES)

SCALE: 1/4"=1'-0"

From Sta. 41+67± to Sta. 243+00±



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Alan Y. Tomita

6/3/99	Added "Note 4" for Typical Sections - A & B.
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

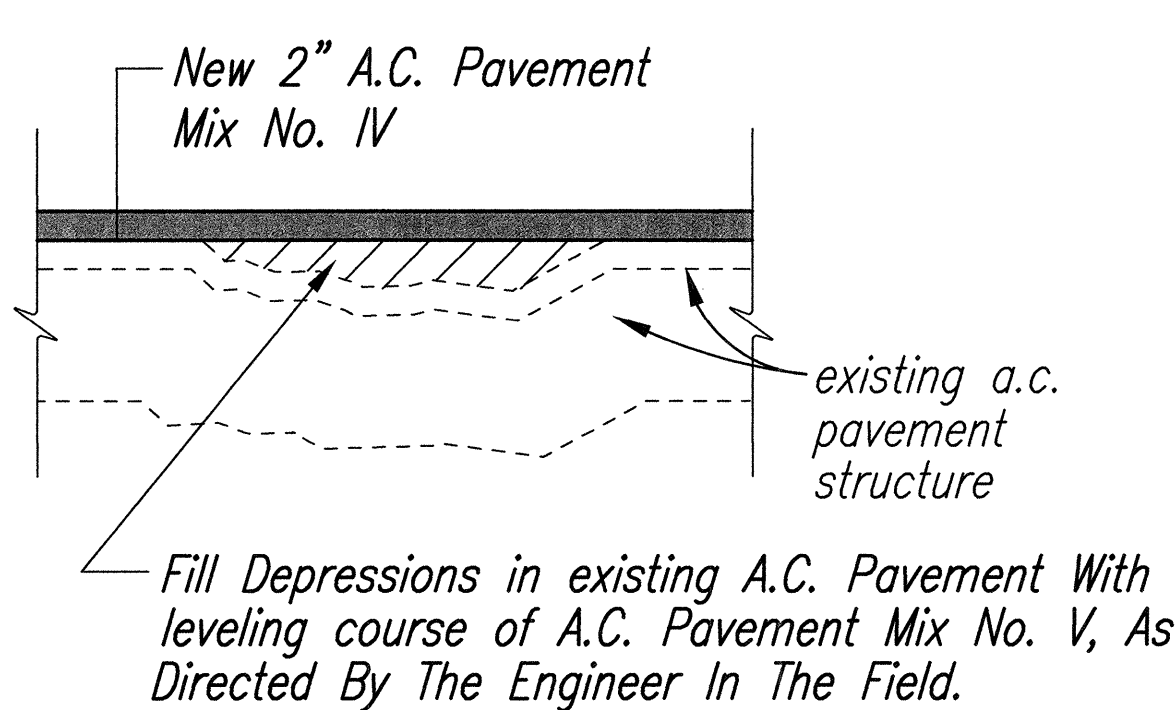
TYPICAL SECTIONS & DETAILS

MAMALAHOA HIGHWAY RESURFACING
Vicinity of Kamakoa Bridge No. 1 to Keamoku
Project No. 190DE-01-99M
Scale: As Shown Date: June, 1999

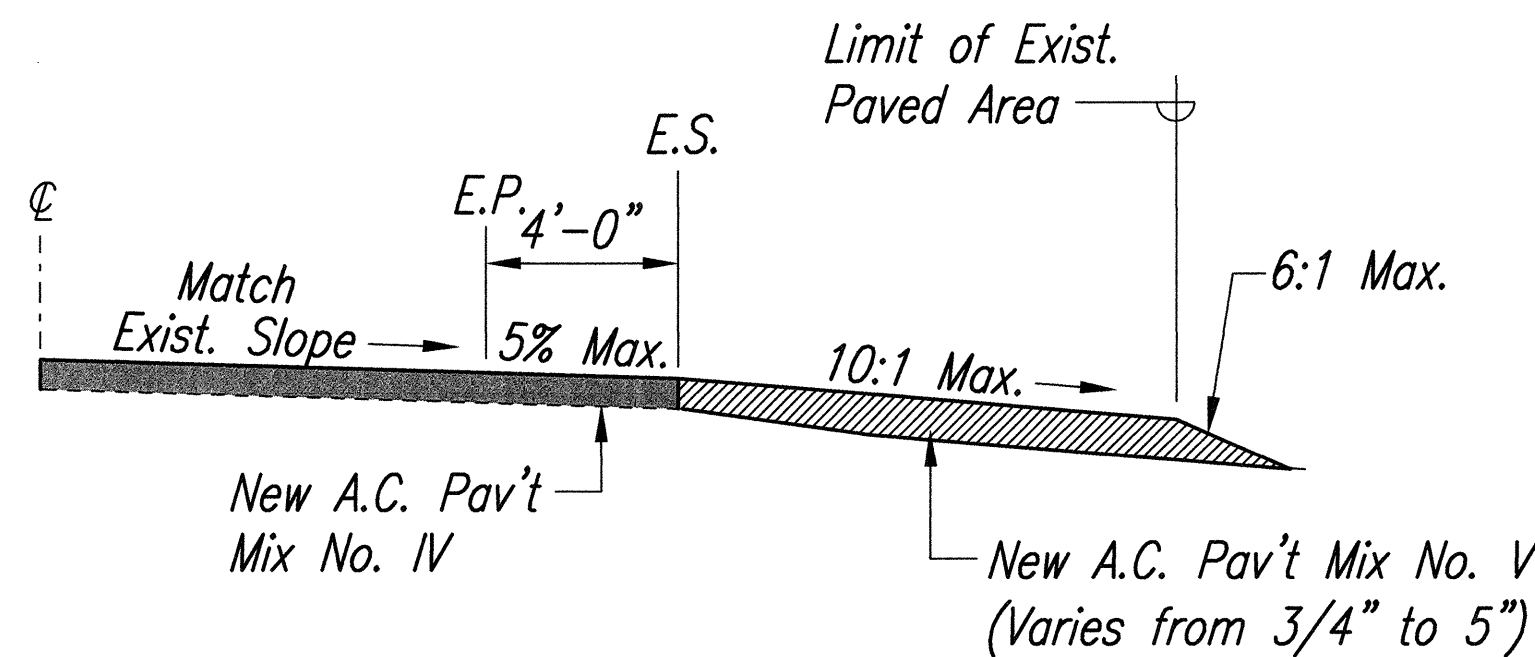
SHEET No. 1 OF 2 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
QUANTITIES BY	CHECKED BY	
NO.		

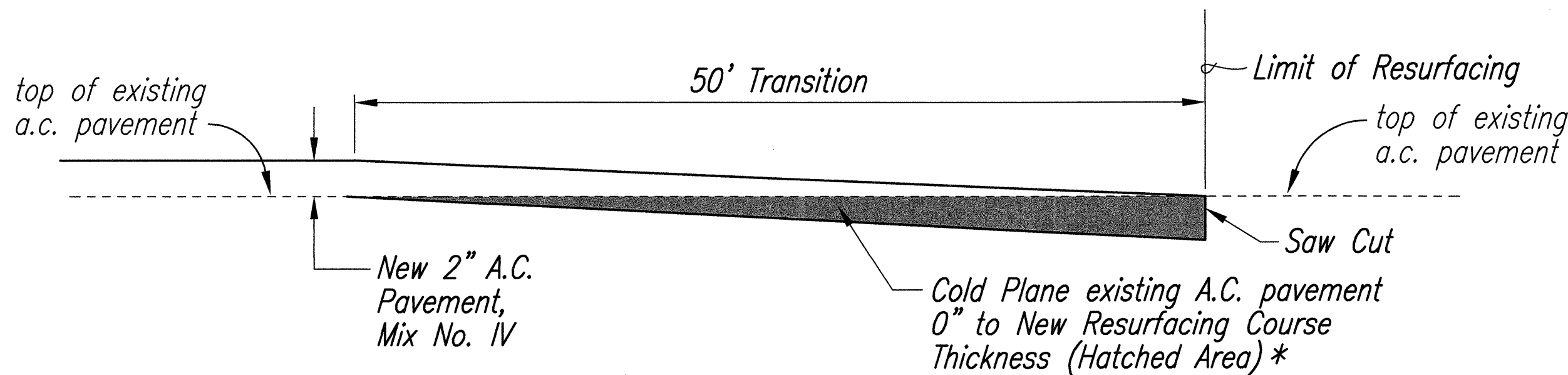
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	190DE-01-99M	1999	6	50



LEVELING COURSE DETAIL
Not to Scale

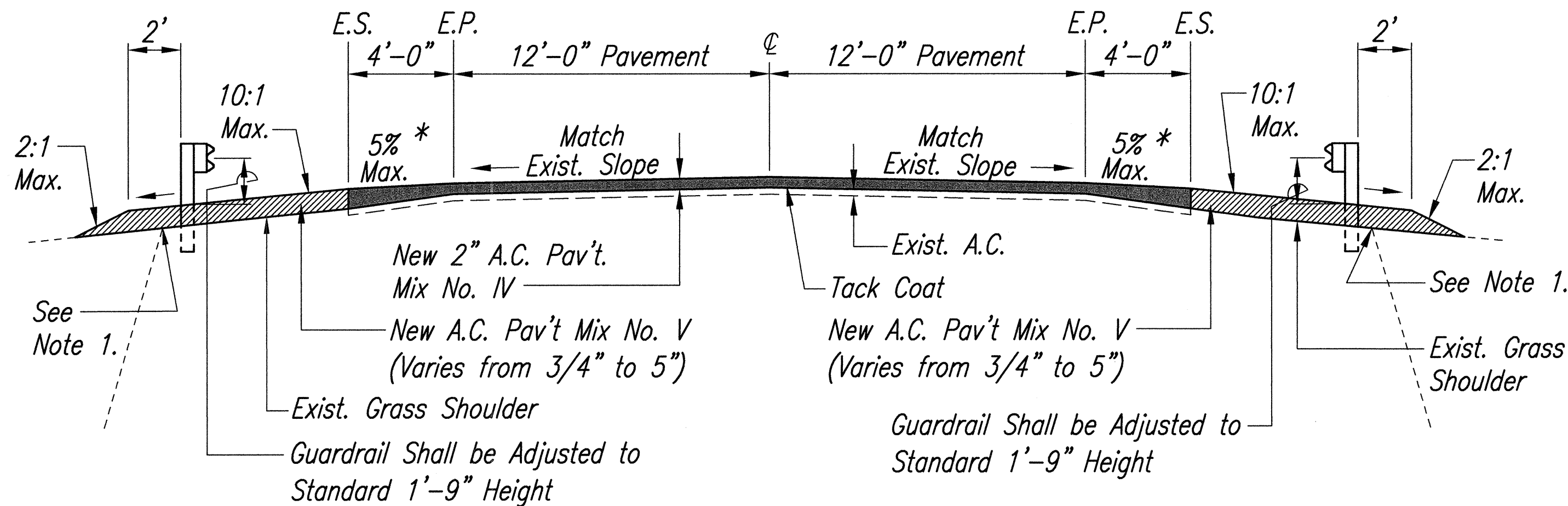


TYPICAL SECTION - EXISTING PAVED SHOULDERS WITHOUT GUARDRAILS EXCEEDING 4'-0"
Not To Scale

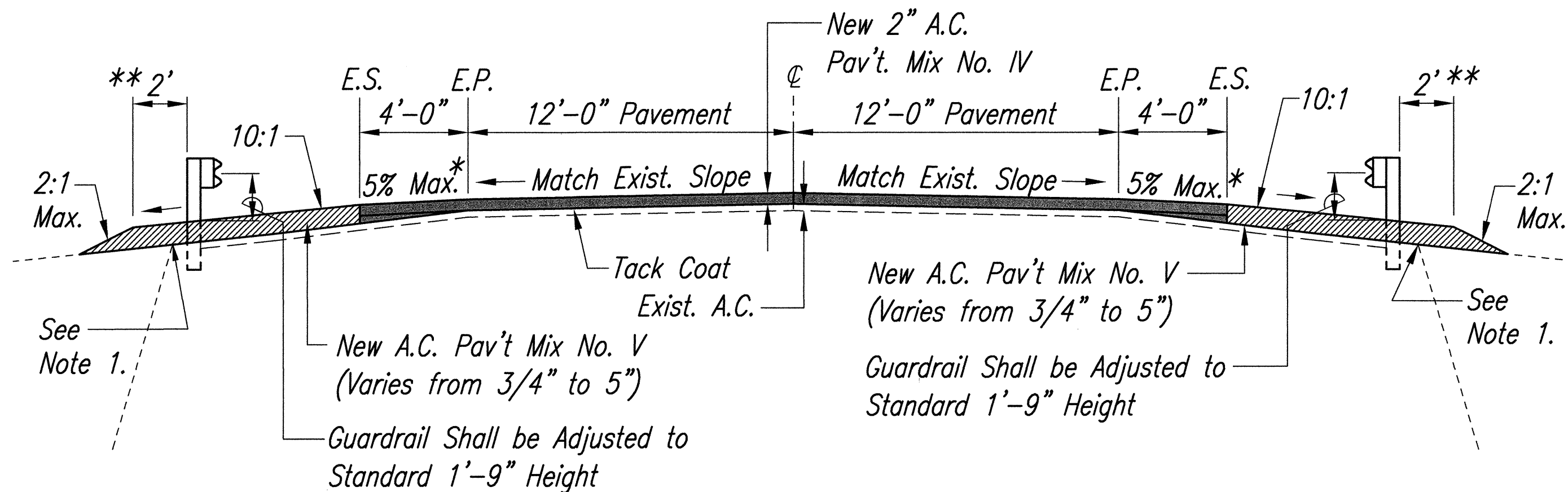


COLD PLANED TRANSITION TO EXISTING A.C. PAVEMENT @ BEGIN AND END PROJECT LIMITS
Not to Scale

* Cost shall be incidental to Item 401.0400 Asphalt Concrete Pavement, Mix No. IV .



NON-PAVED EXISTING CONDITION
* Match Exist. Slope @ Superelevation

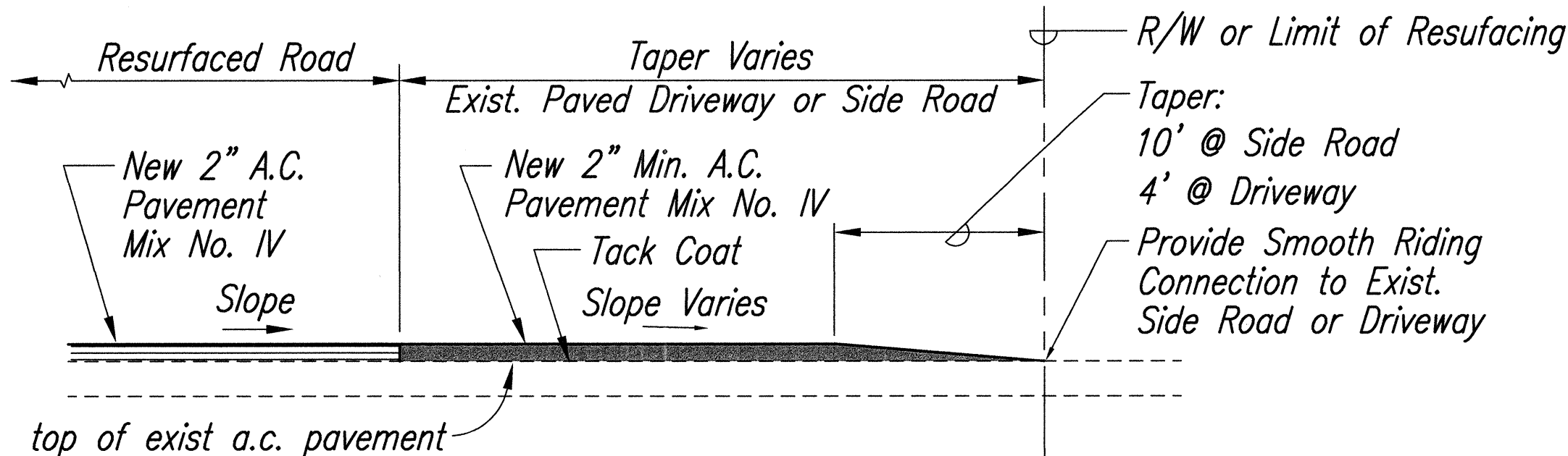


PAVED EXISTING CONDITION

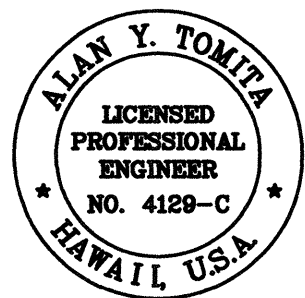
* Match Exist. Slope @ Superelevation
** If Necessary

- Notes:
- Where the Exist. Guardrail Does Not Have the Minimum 2'-0" Flat Clearance Behind the Guardrail, Paving Shall End at the Hinge of Flat Surface.
 - Clearing & Grubbing Shall be Provided for Shoulder Areas to be Improved. The Cost Shall be Incidental to Paving Work.
 - All Excess Useable Cold-Planed Material Shall be Stockpiled Within the Project Limits at No Cost to the State. Stockpile Locations are to be Determined by the Engineer.

TYPICAL SECTION @ GUARDRAILS
SCALE: 1/4"=1'-0"



A.C. RESURFACING AT PAVED SIDE ROAD & DRIVEWAY
Not to Scale



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Alan Y. Tomita

6/3/99	Added Side Road & Driveway Connection Detail, Added Varying Thickness for New A.C. Pavement Mix No. V, Deleted Description for 2'-0" flat Clearance Behind the Guardrail, Revised text "Readjusted" to "Adjusted", Revised Subtitle for Typical Section @ Pullover Area.
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL SECTIONS & DETAILS
MAMALAHOA HIGHWAY RESURFACING
Vicinity of Kamakoa Bridge No. 1 to Keamoku
Project No. 190DE-01-99M
Scale: As Shown Date: June, 1999
SHEET No. 2 OF 2 SHEETS