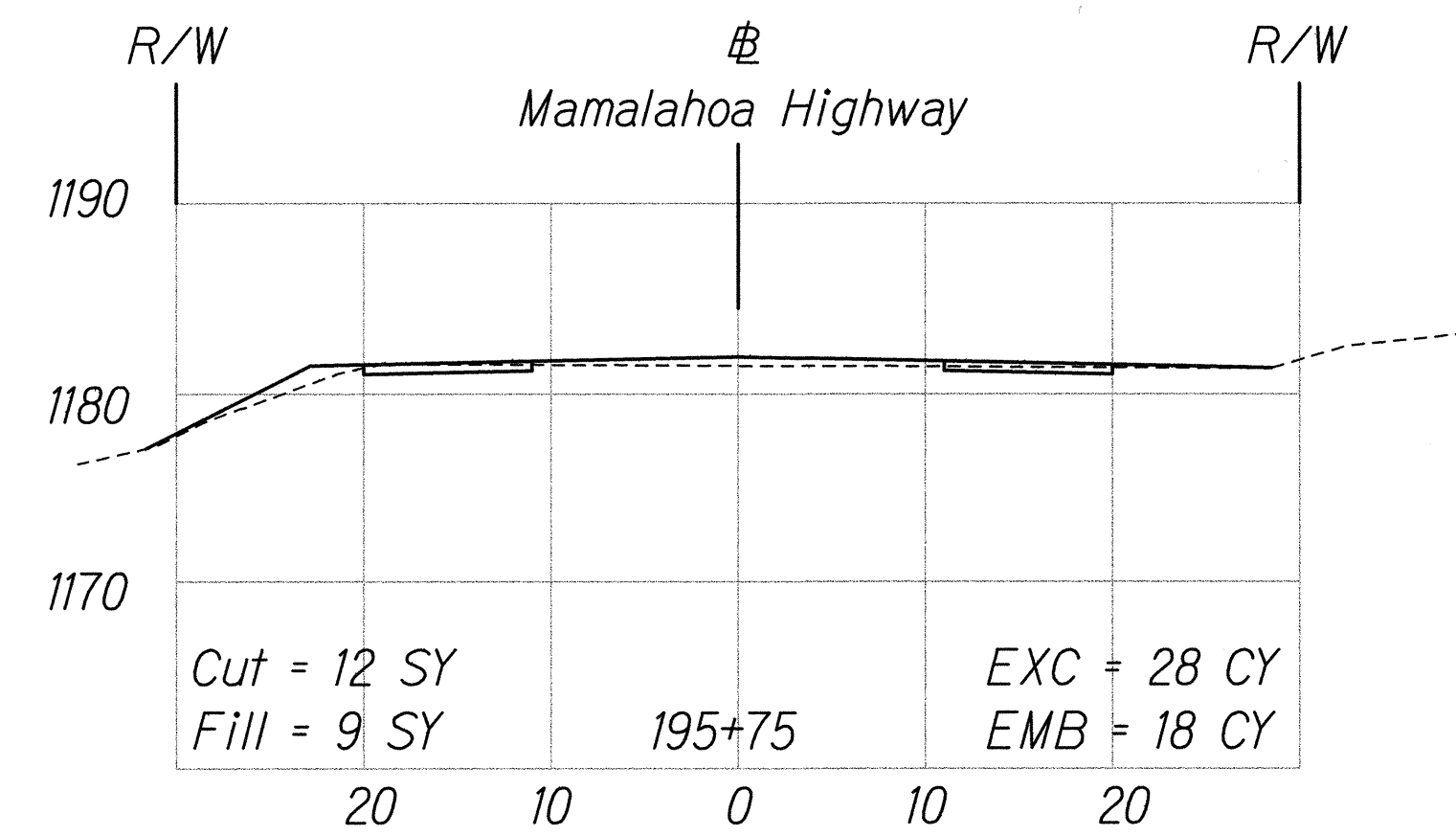
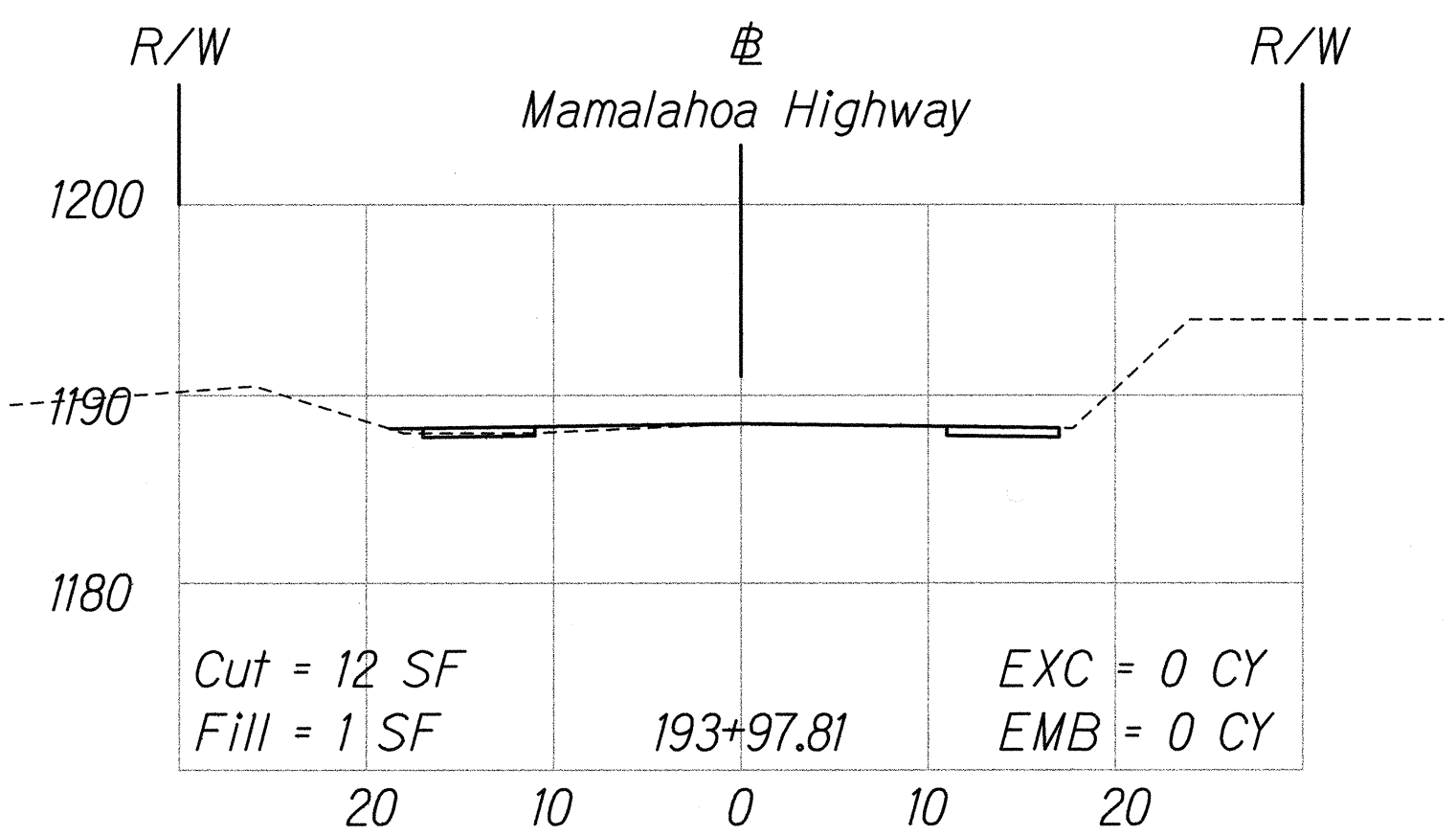
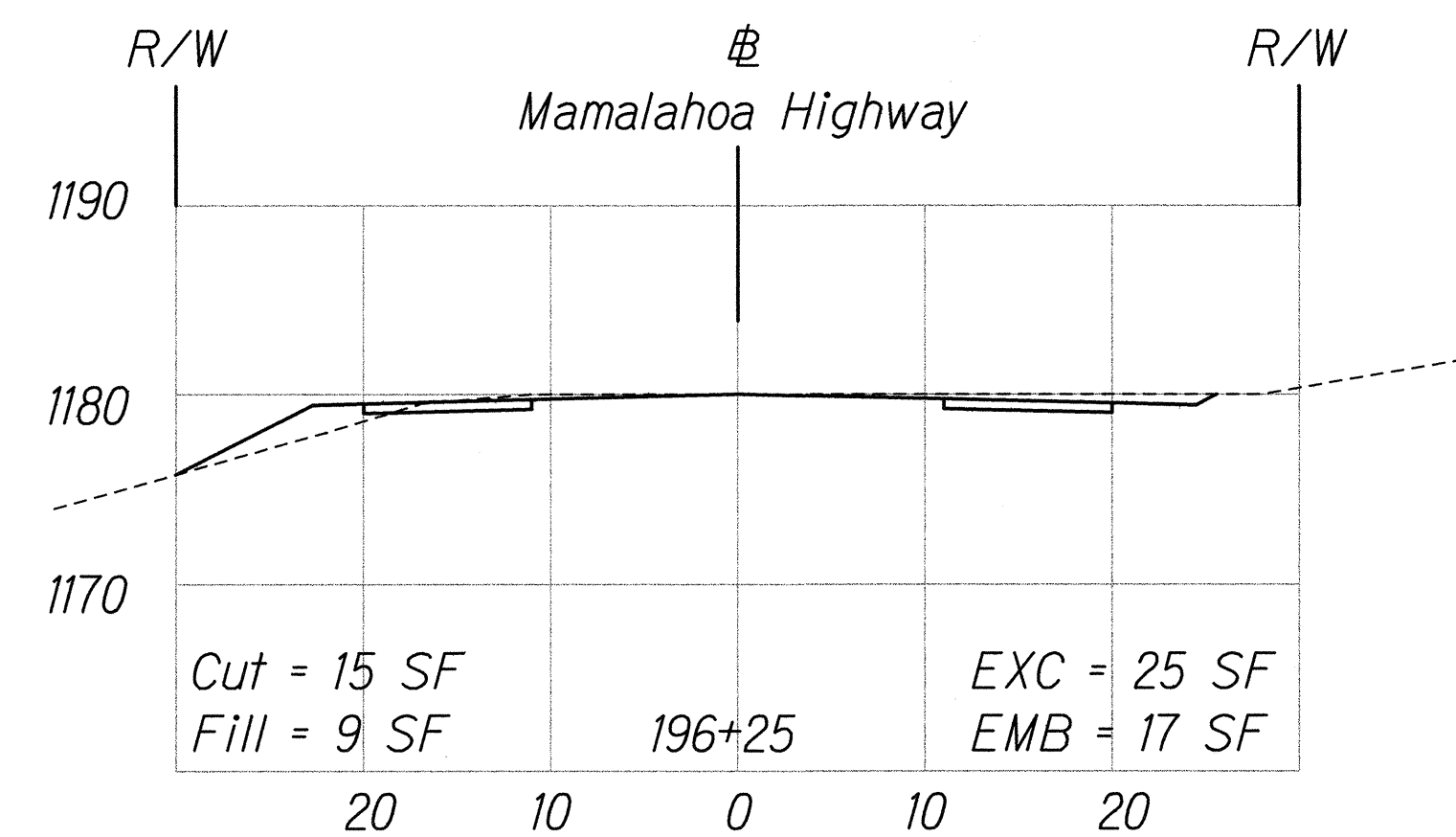
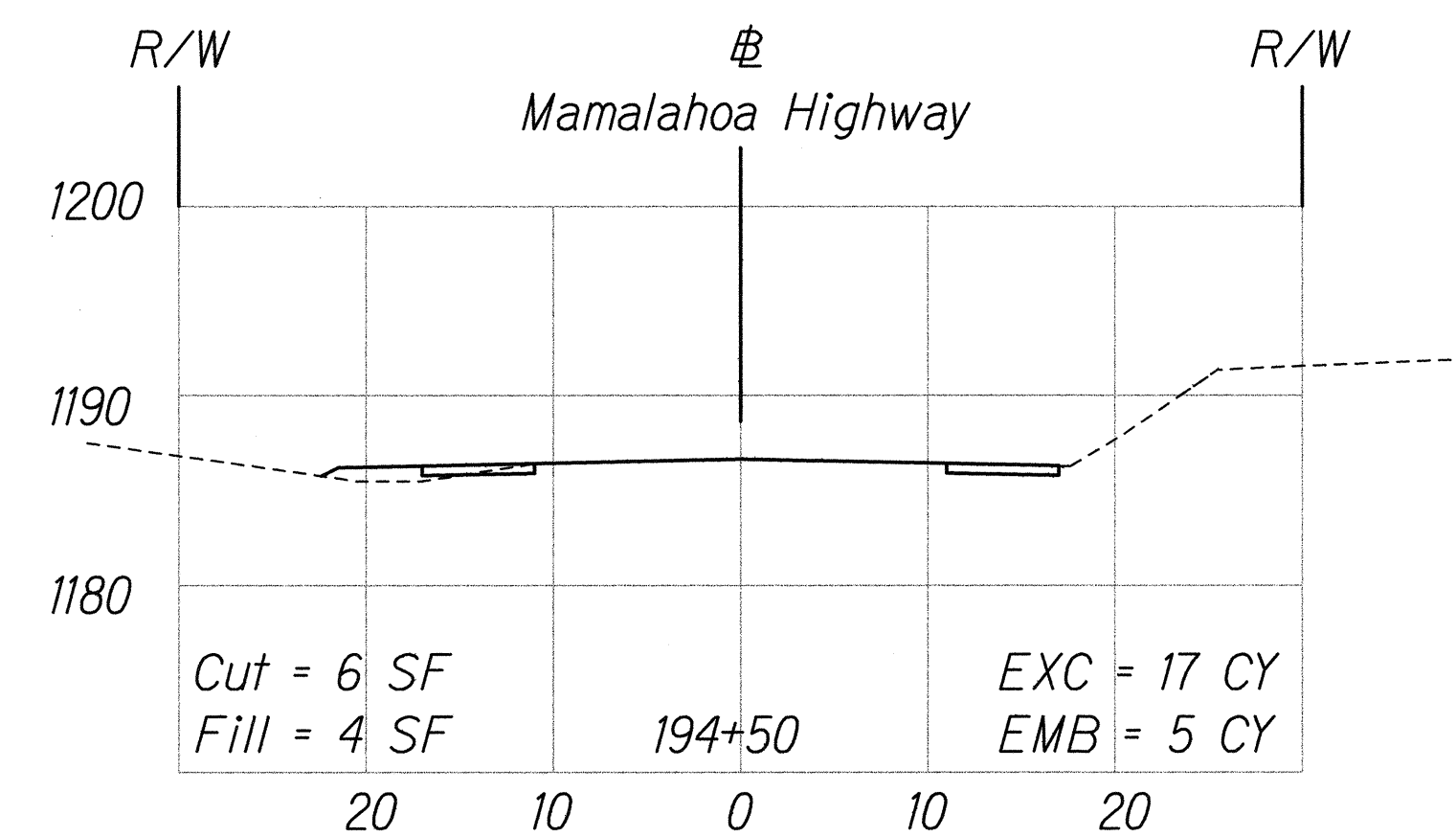
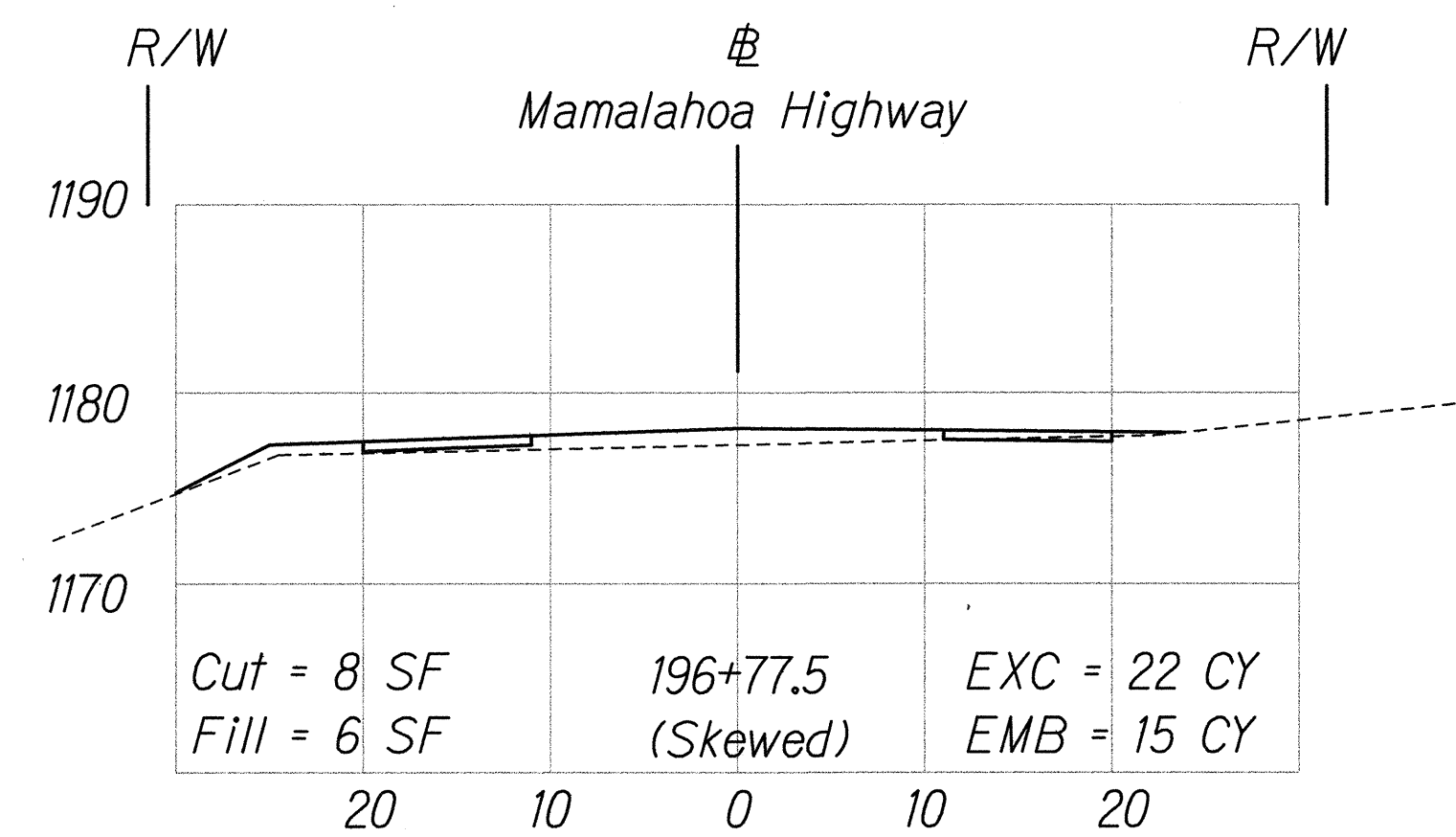
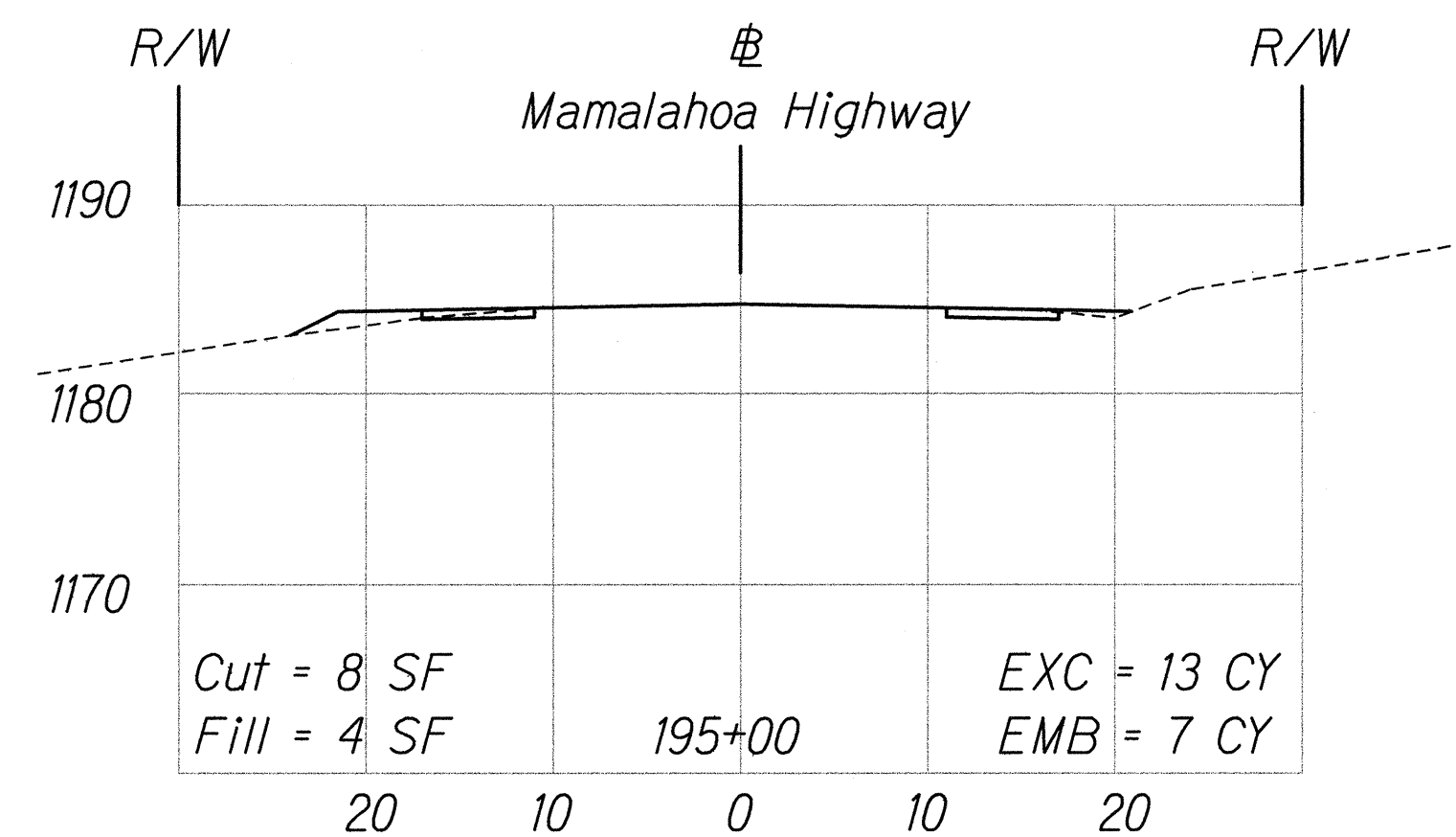


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(2)	2001	110	145



CROSS SECTION  
Scale: Horizontal 1" = 10'-0"  
Vertical 1" = 10'-0"

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

U:\KAAHALA\XSEC\XSEC.dgn March 2001

PERRY M. SMALL  
LICENSED PROFESSIONAL ENGINEER  
No. 8627-C  
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CROSS SECTIONS**

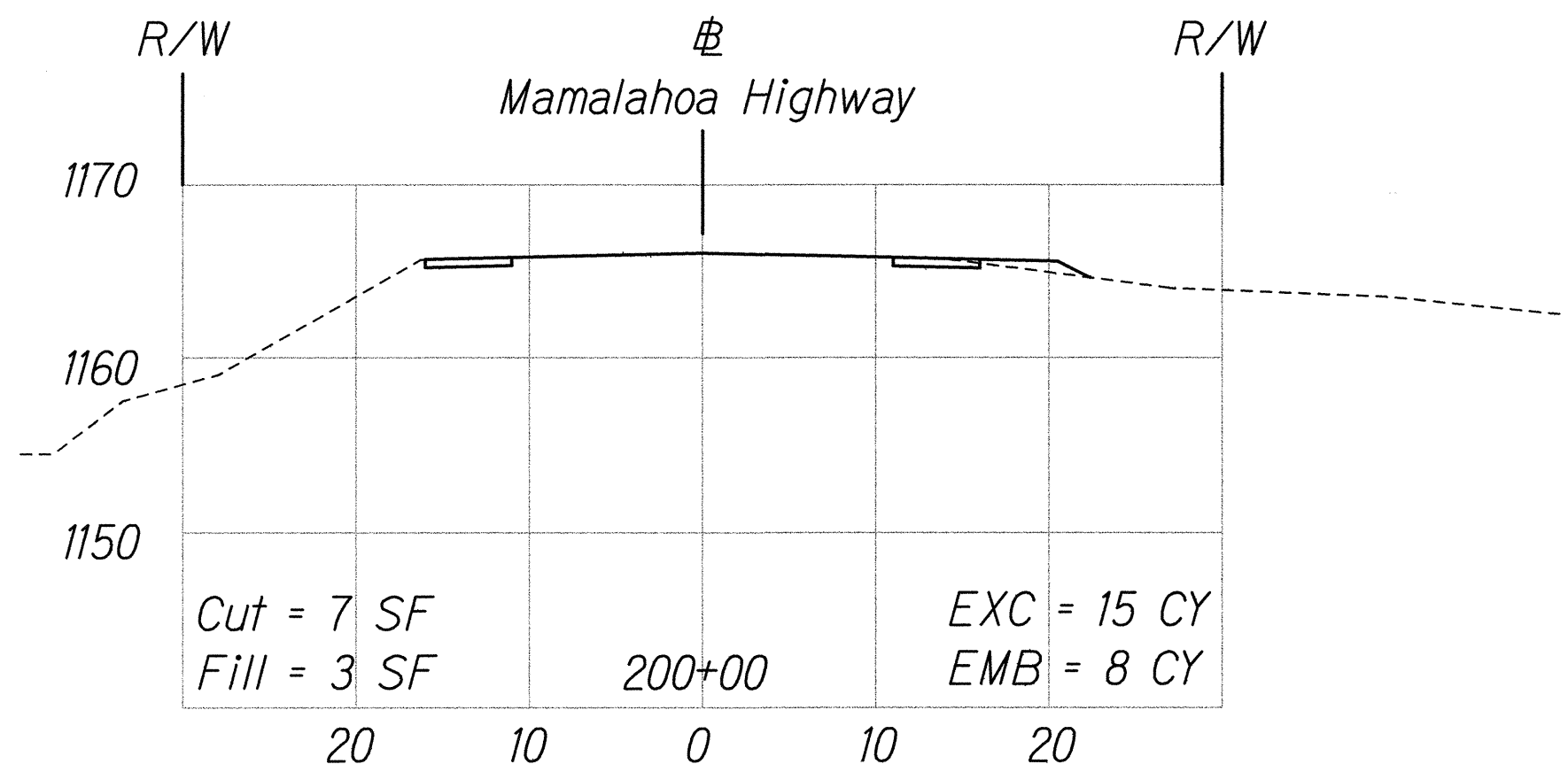
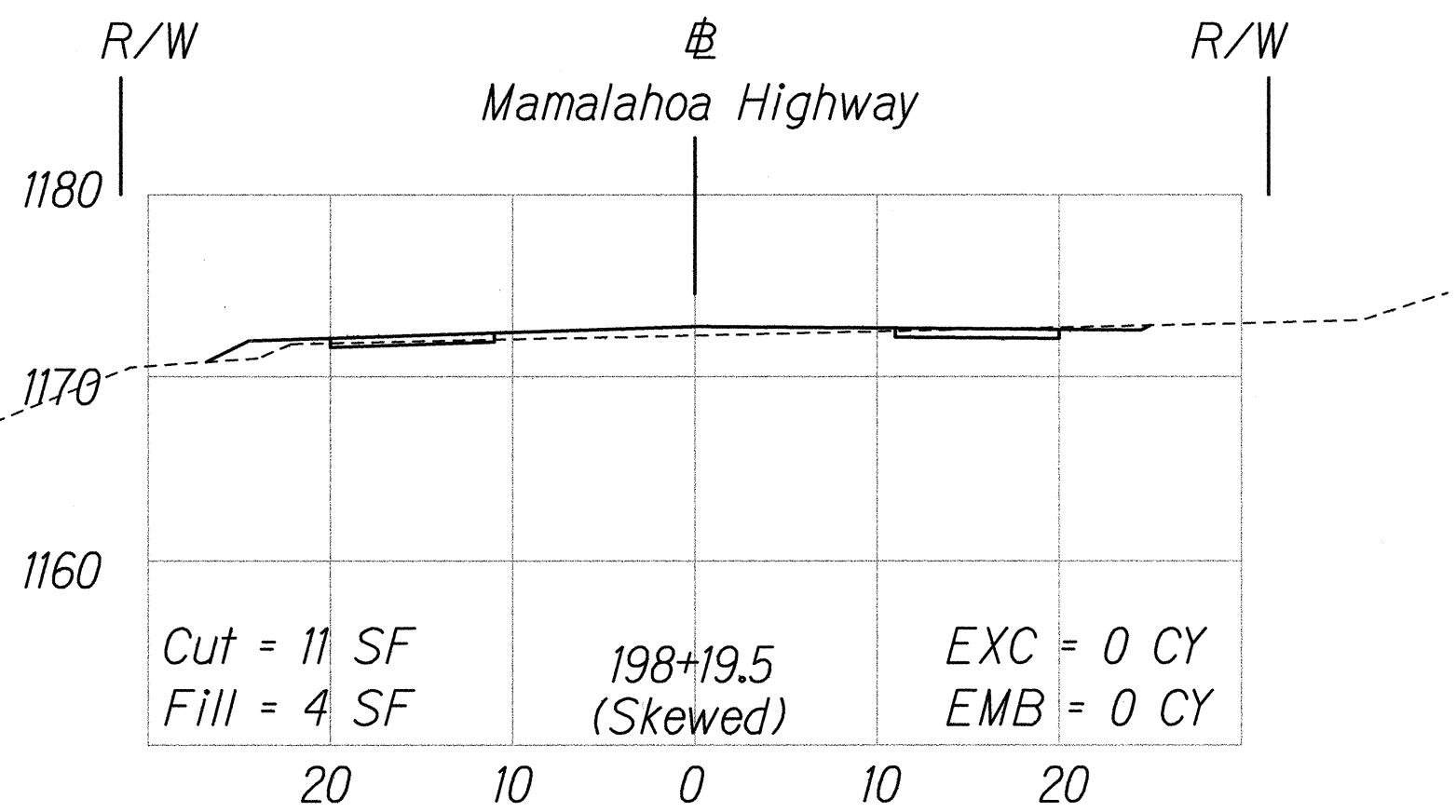
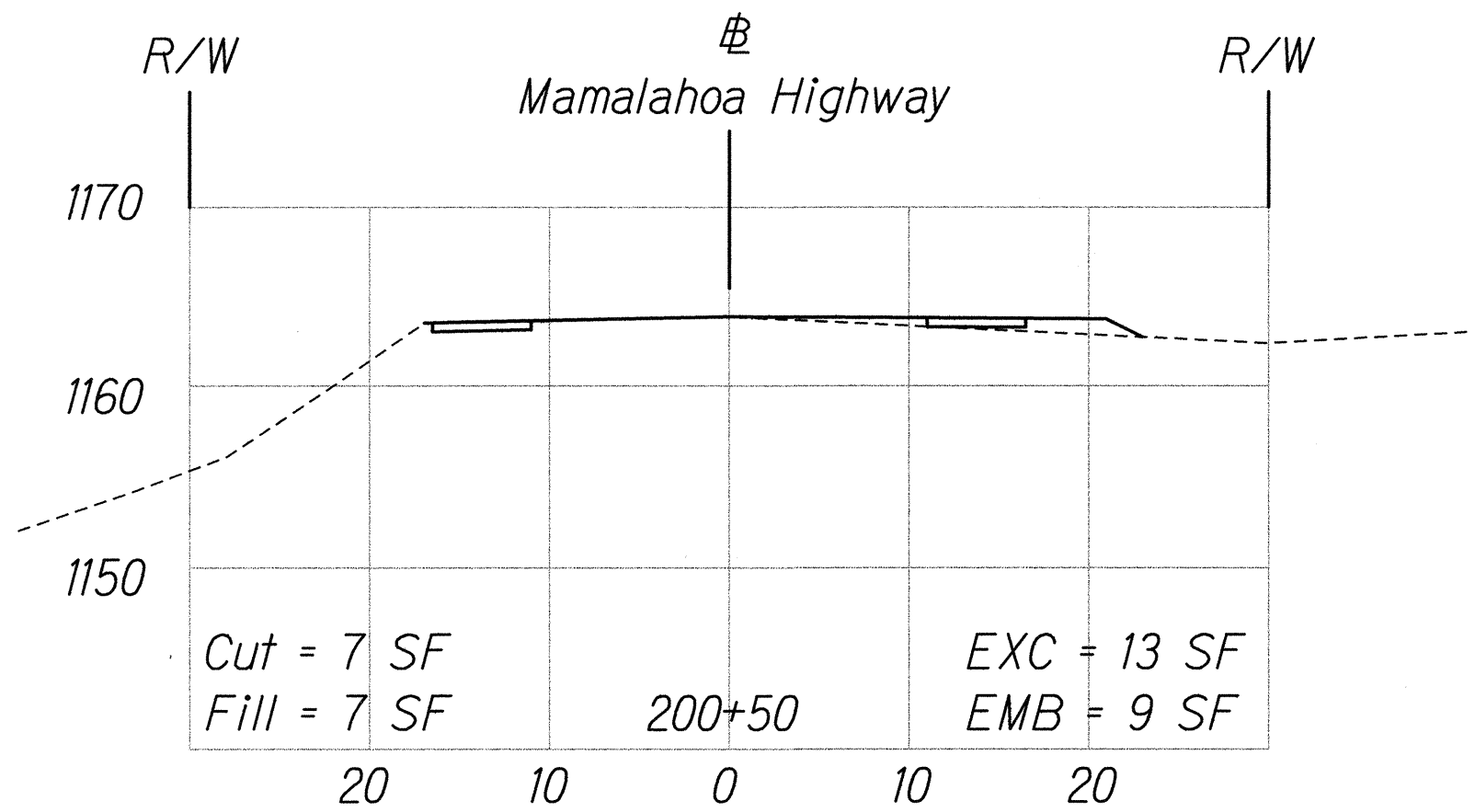
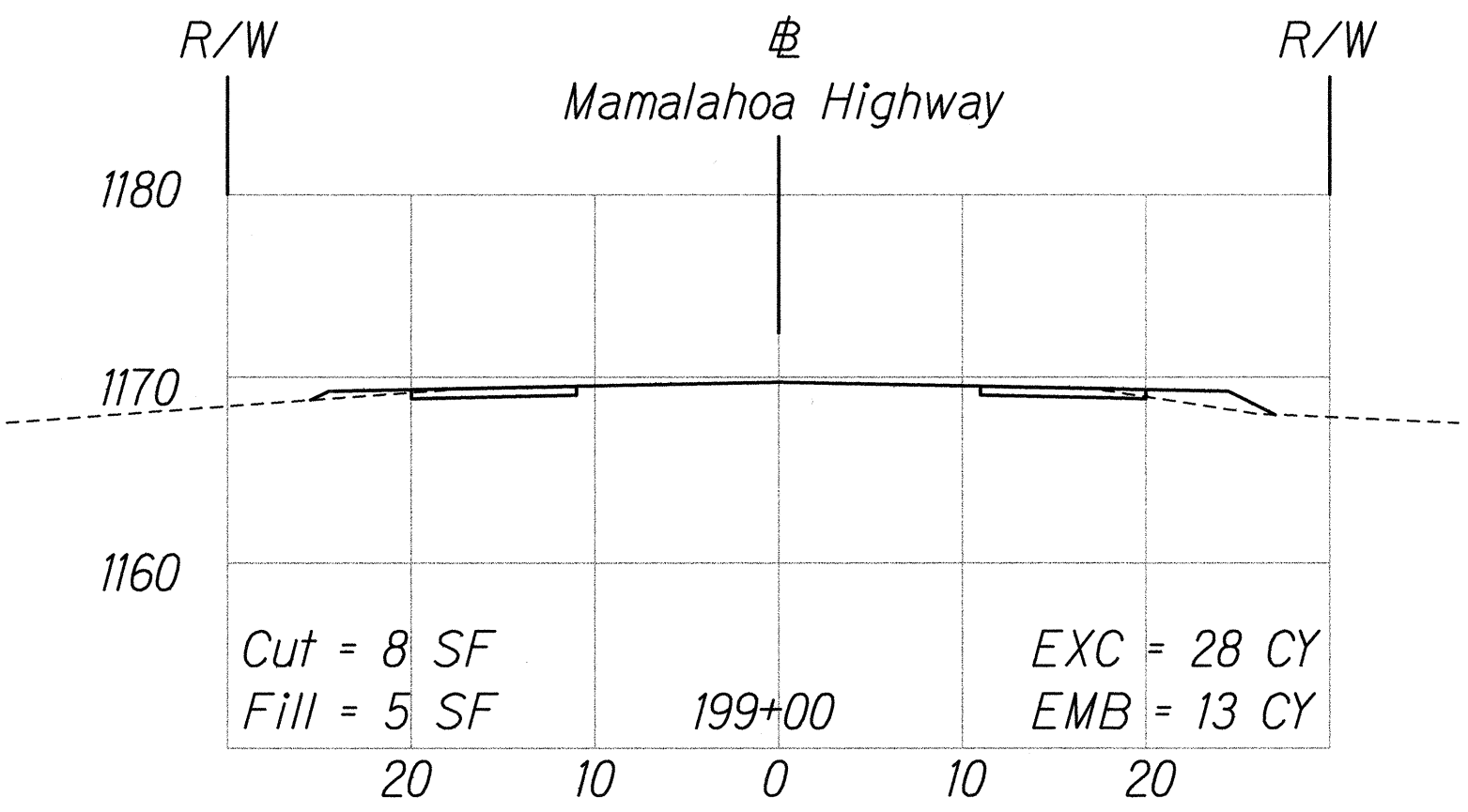
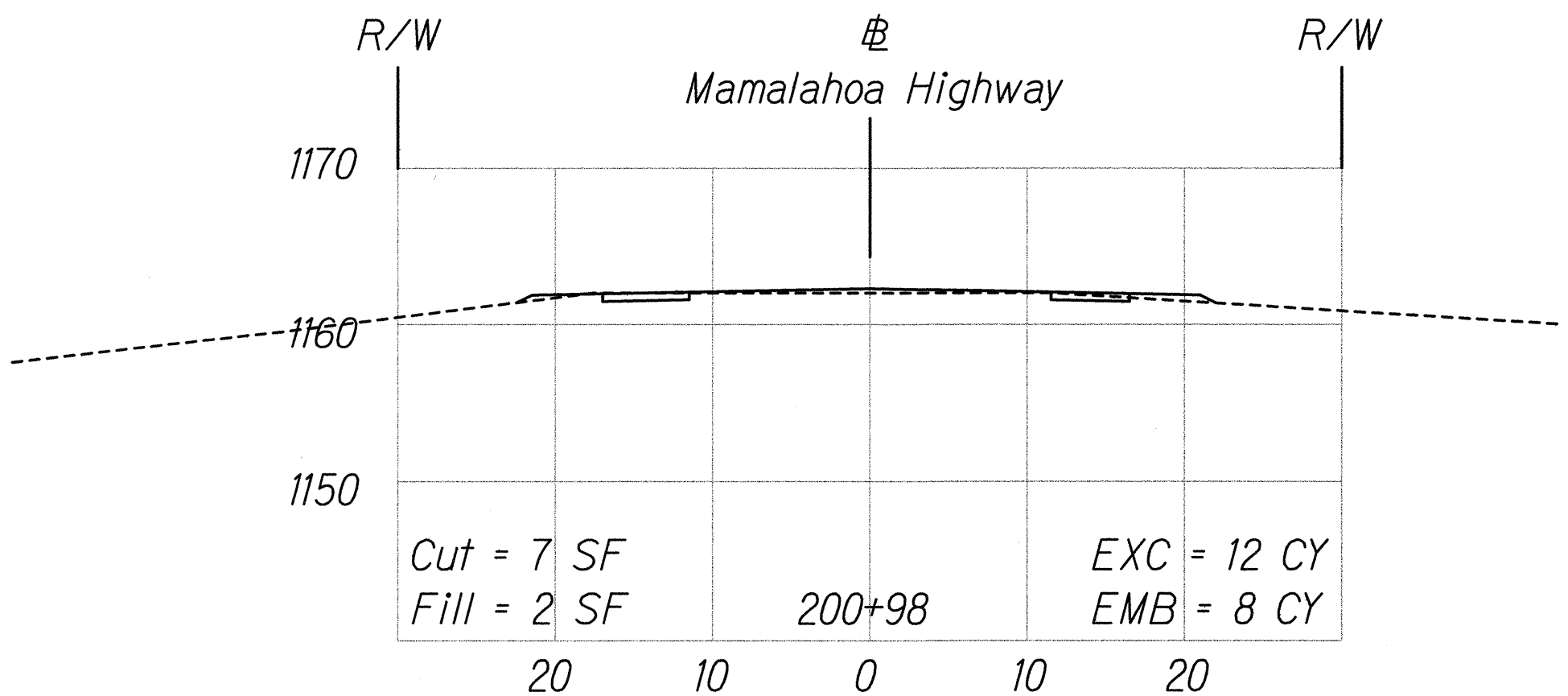
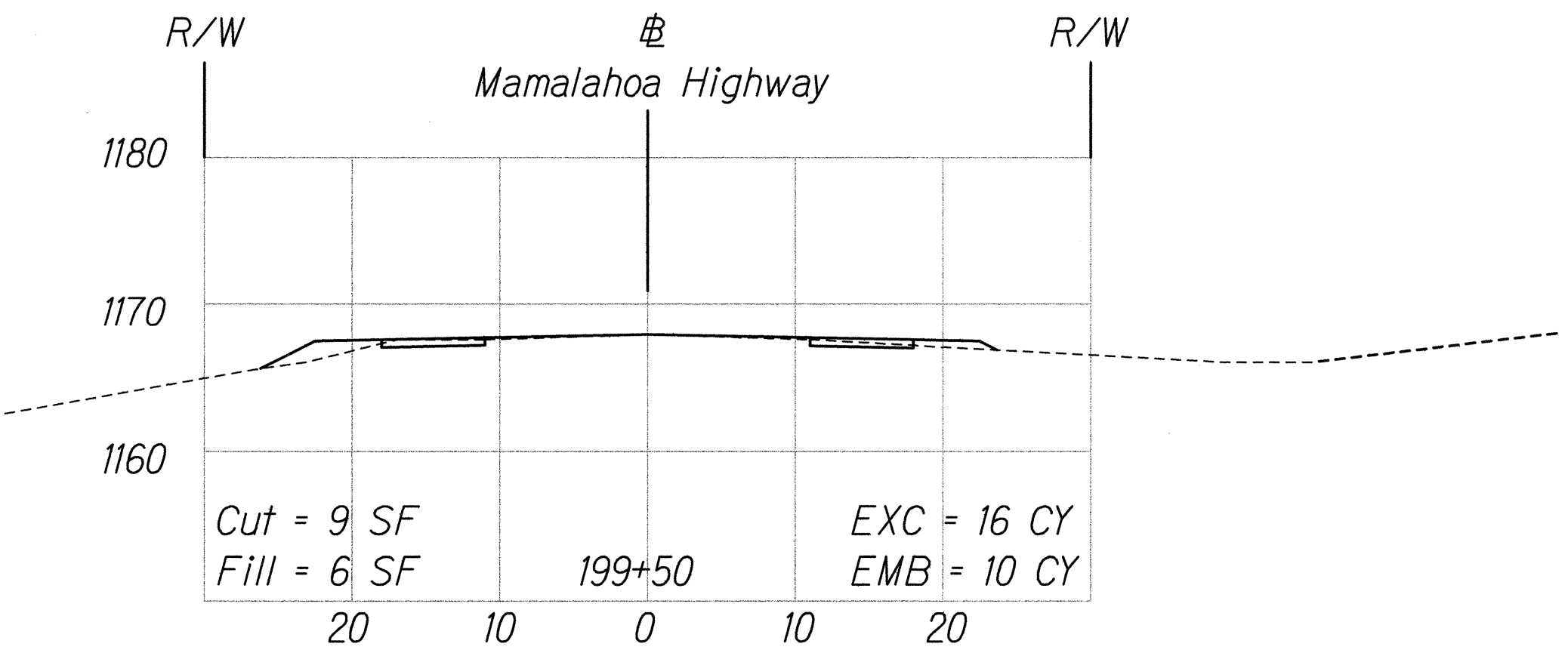
**MAMALAHOA HIGHWAY**  
MAMALAHOA HIGHWAY, EMERGENCY

REPLACEMENT OF KAAHALA STREAM BRIDGE  
FEDERAL-AID PROJECT NO. ER-12(2), PAHALA, HAWAII

Scale: As Shown Date: February 20, 2001

SHEET No. BC 16 OF 28 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(2)	2001	111	145



SUMMARY OF QUANTITIES:

EXC = 189 C.Y.

EMB = 110 C.Y.

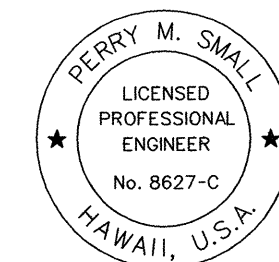
CROSS SECTION

Scale: Horizontal 1" = 10'-0"

Vertical 1" = 10'-0"

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

KAALAALA/KSEC/KS4B.dgn March 2001



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**CROSS SECTIONS**  
**MAMALAHOA HIGHWAY**  
MAMALAHOA HIGHWAY, EMERGENCY  
REPLACEMENT OF KAALAALA STREAM BRIDGE  
FEDERAL-AID PROJECT NO. ER-12(2), PAHALA, HAWAII  
Scale: As Shown Date: February 20, 2001  
SHEET No. BC17 OF 28 SHEETS