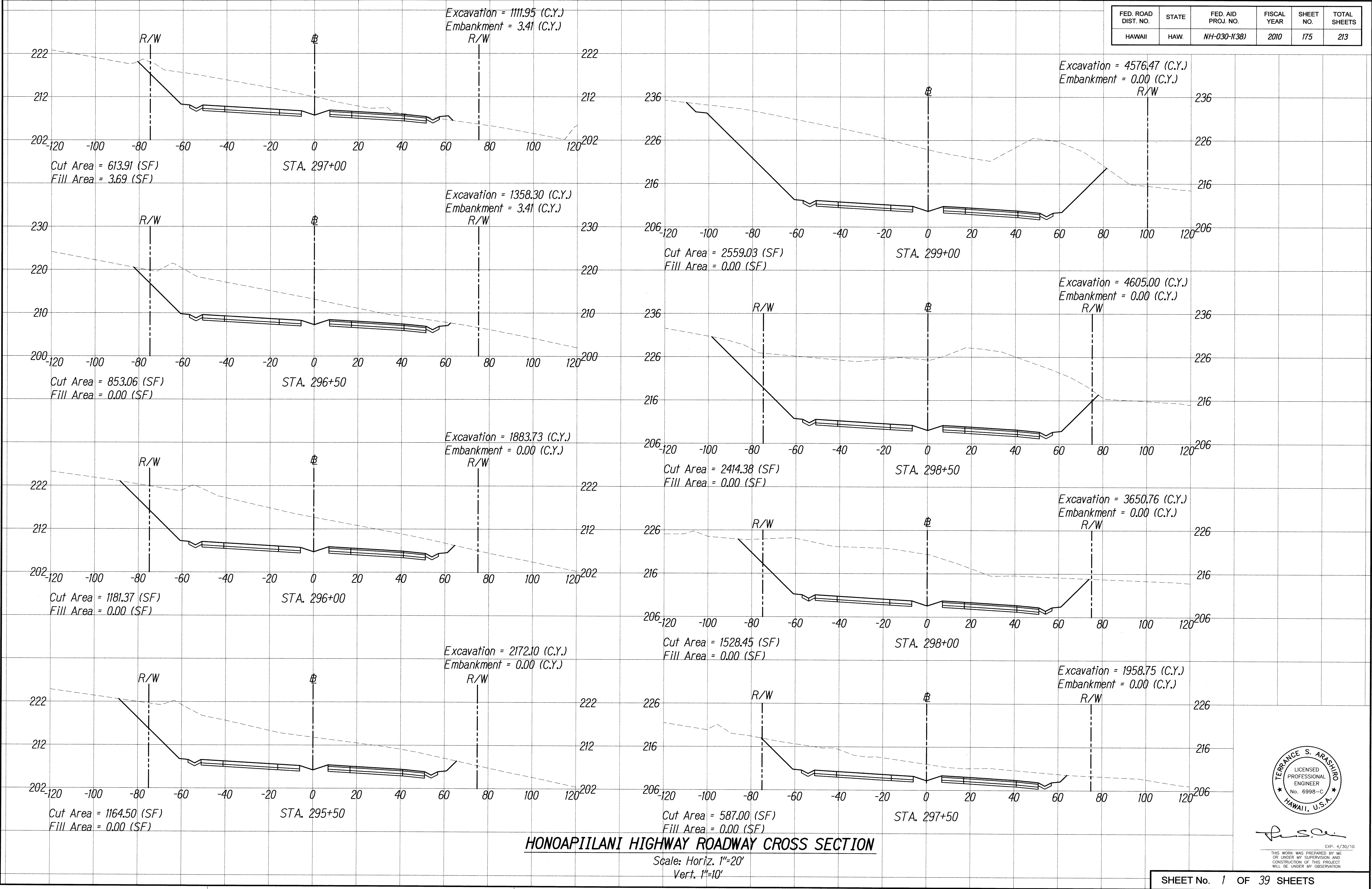
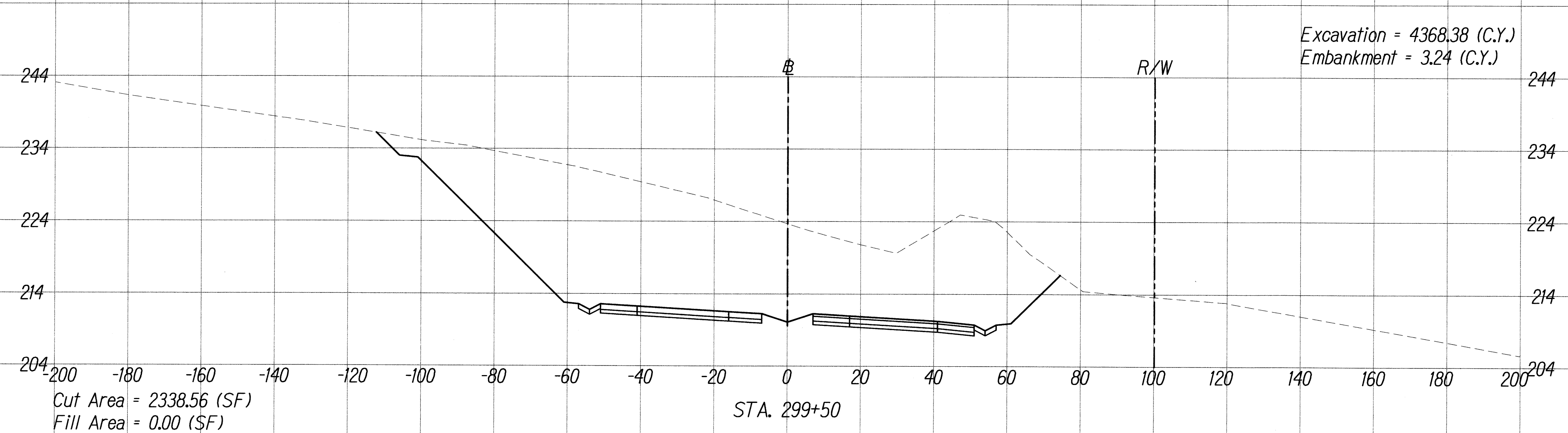
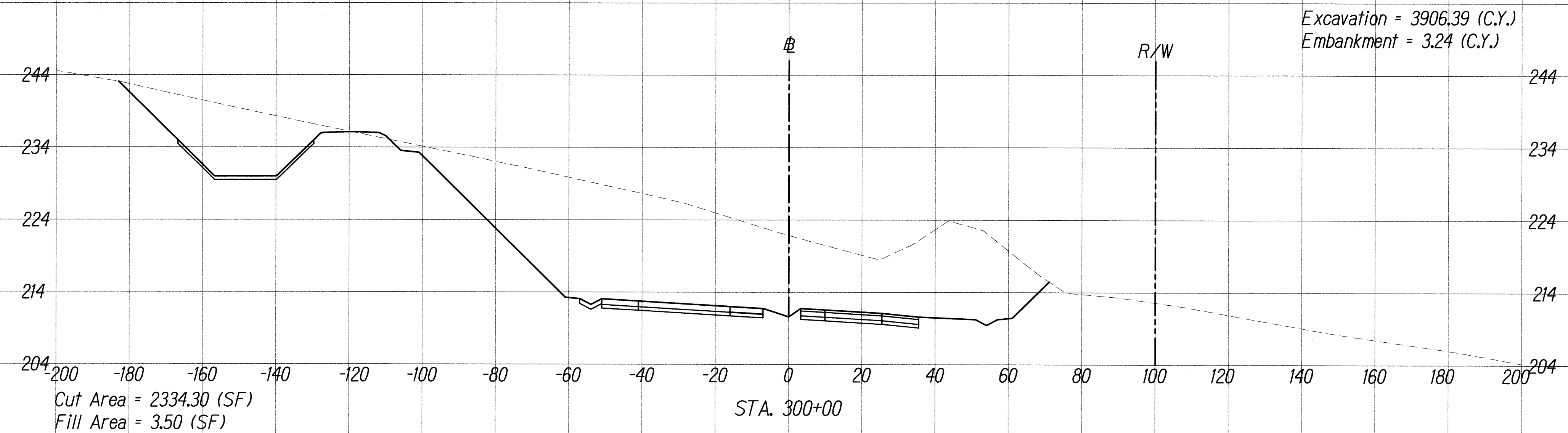
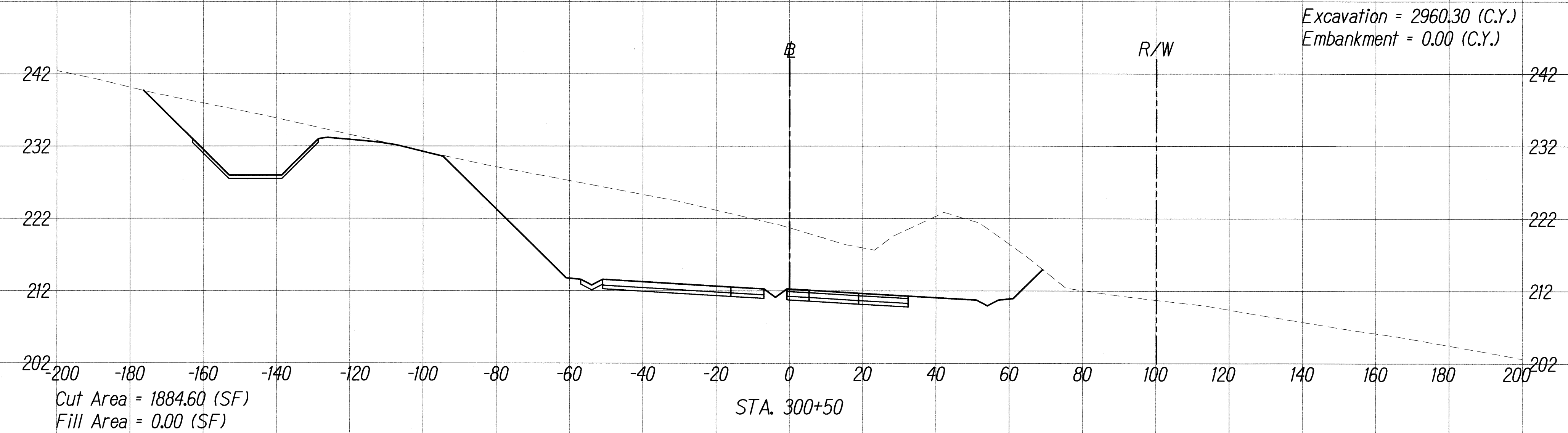


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-K38)	2010	175	213



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	176	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

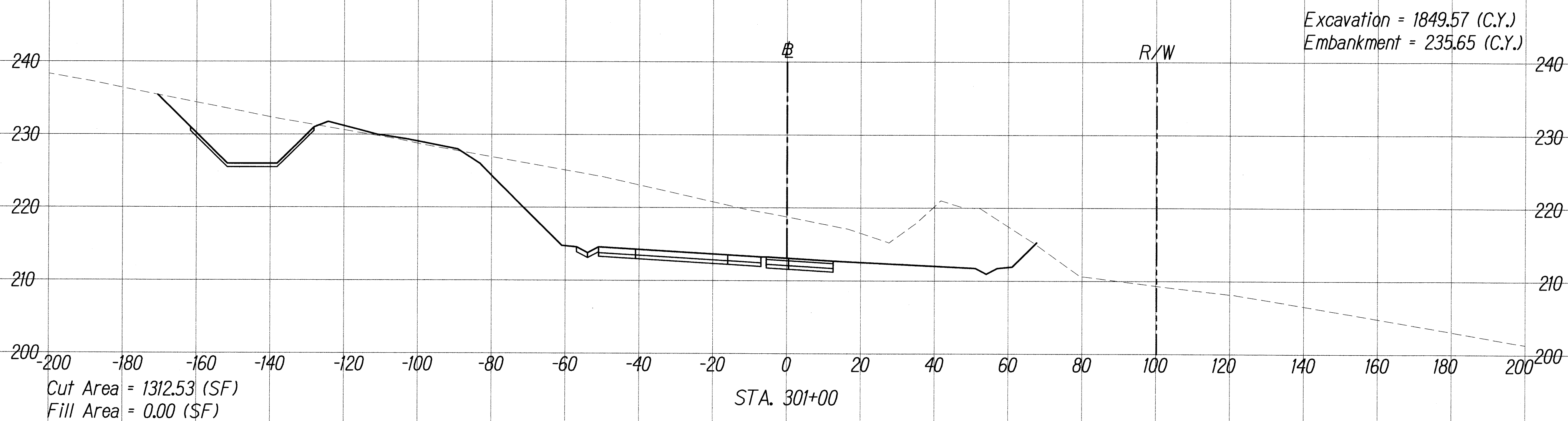
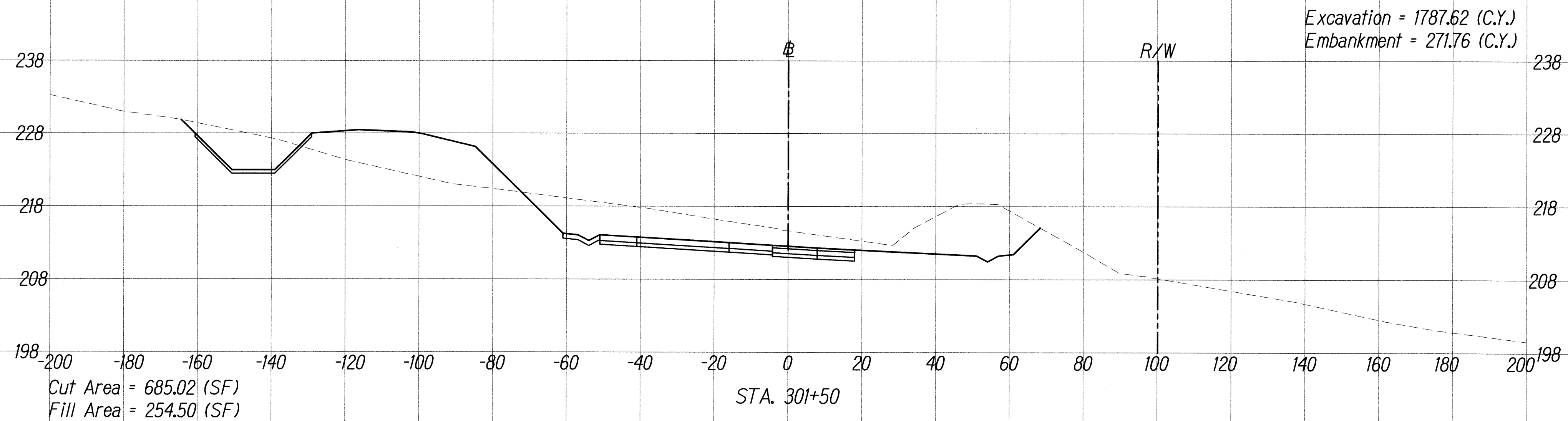
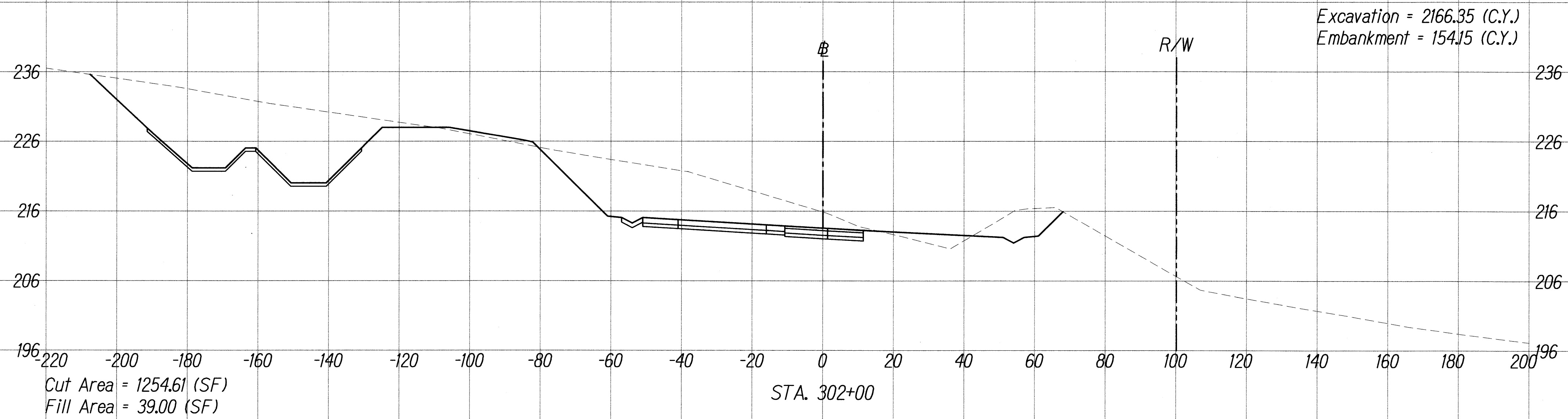
Scale: Horiz. 1"=20'
Vert. 1"=10'



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	177	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

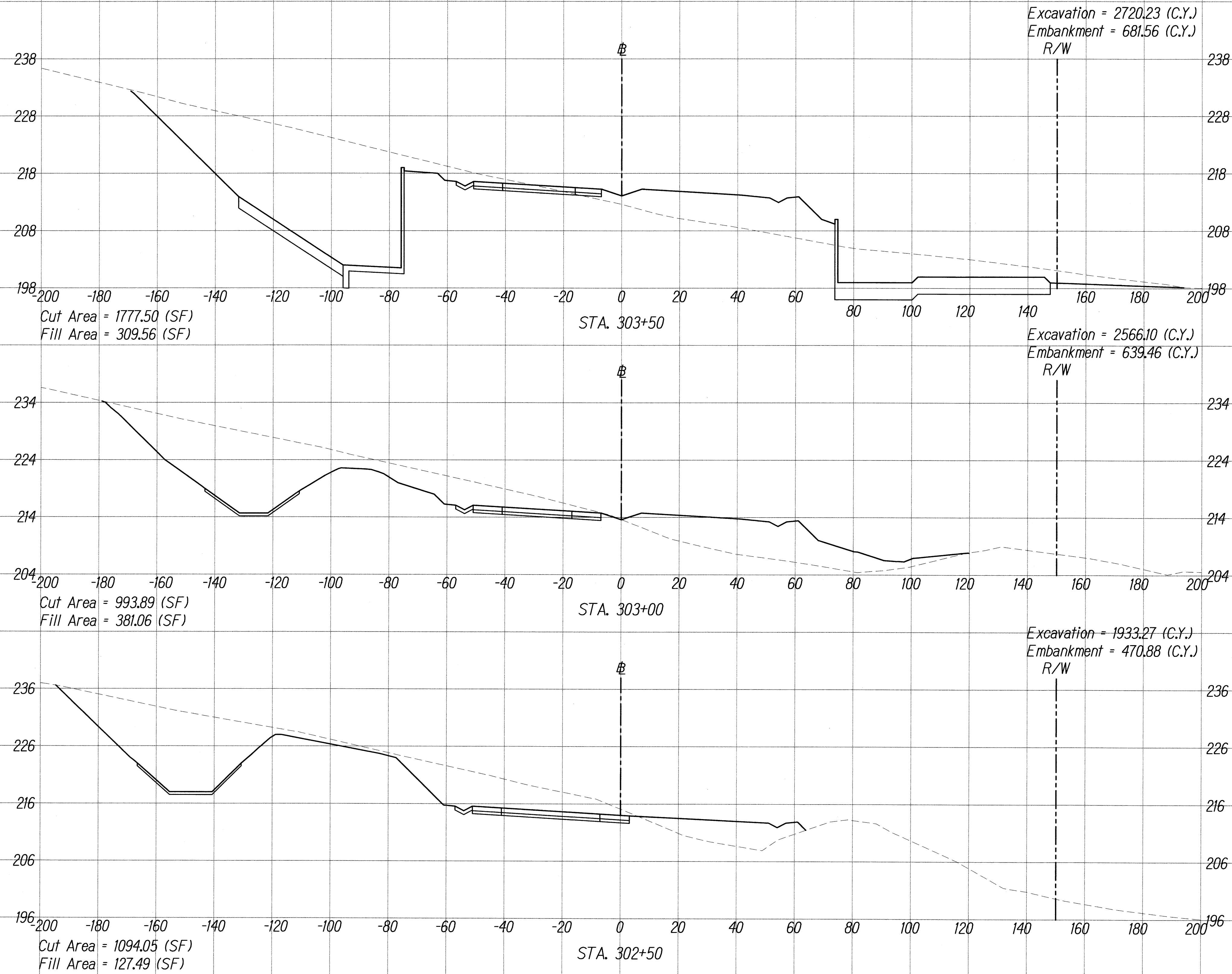
Scale: Horiz. 1"=20'
Vert. 1"=10'



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	178	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

Scale: Horiz. 1"=20'
Vert. 1"=10'

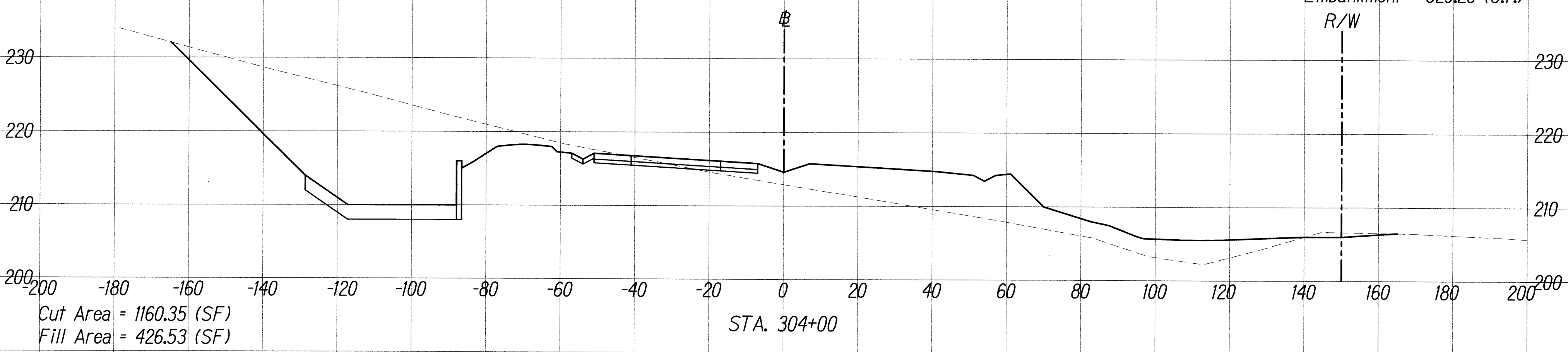
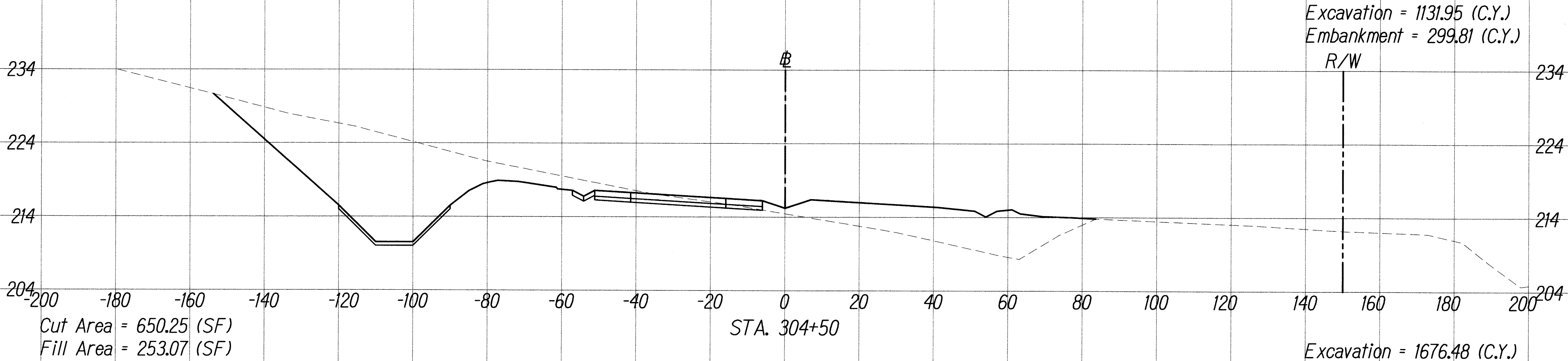
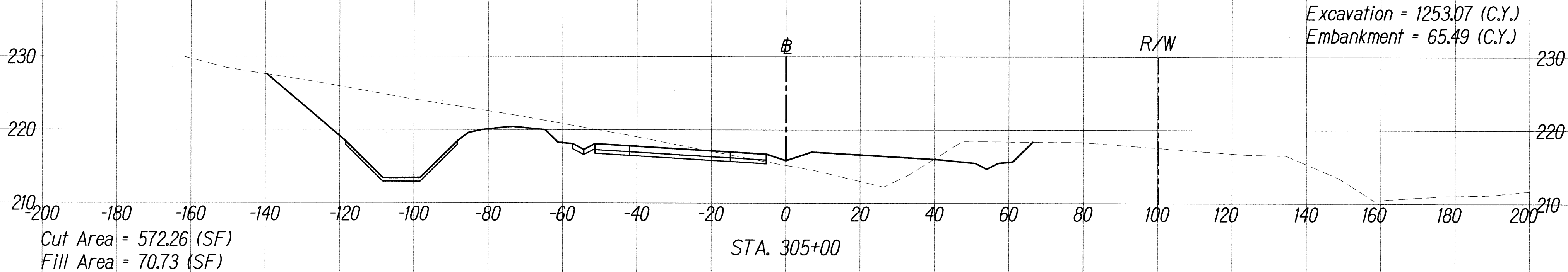
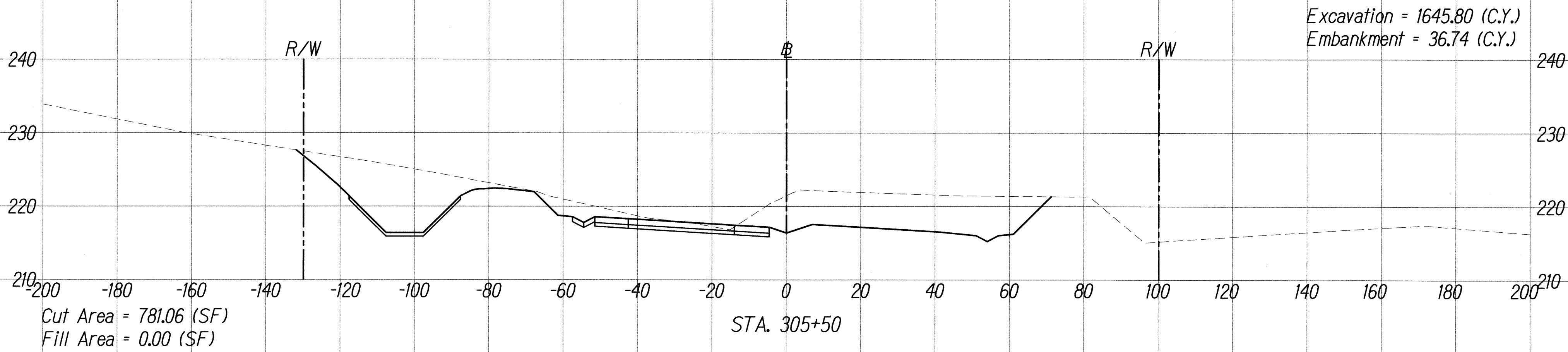


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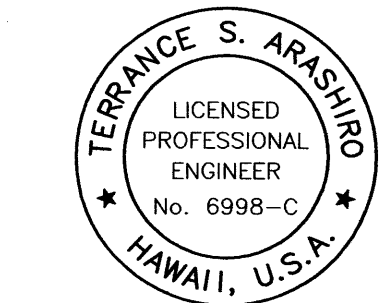
SHEET No. 4 OF 39 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-K(38)	2010	179	213



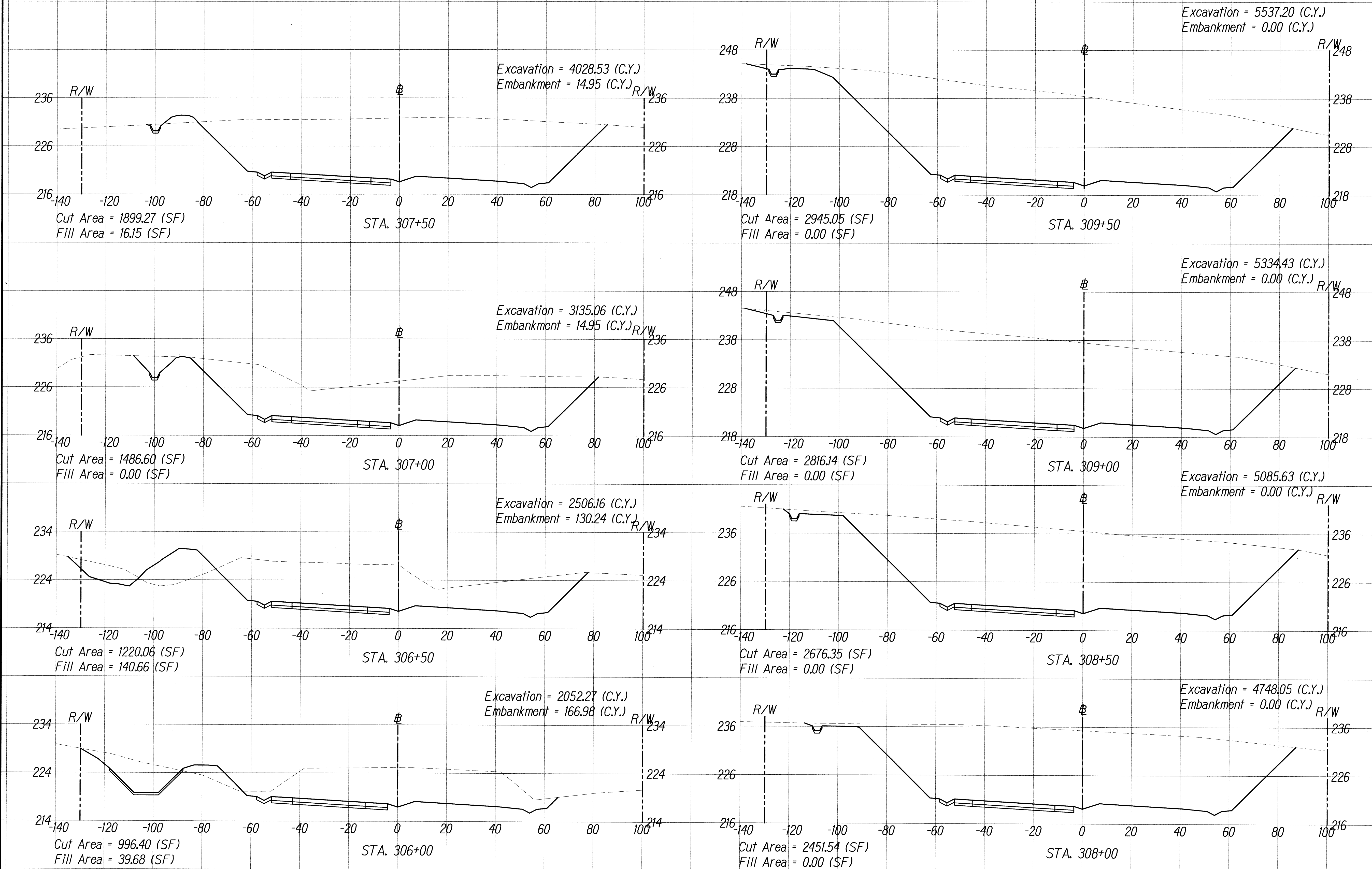
HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

Scale: Horiz. 1"=20'
Vert. 1"=10'



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	180	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

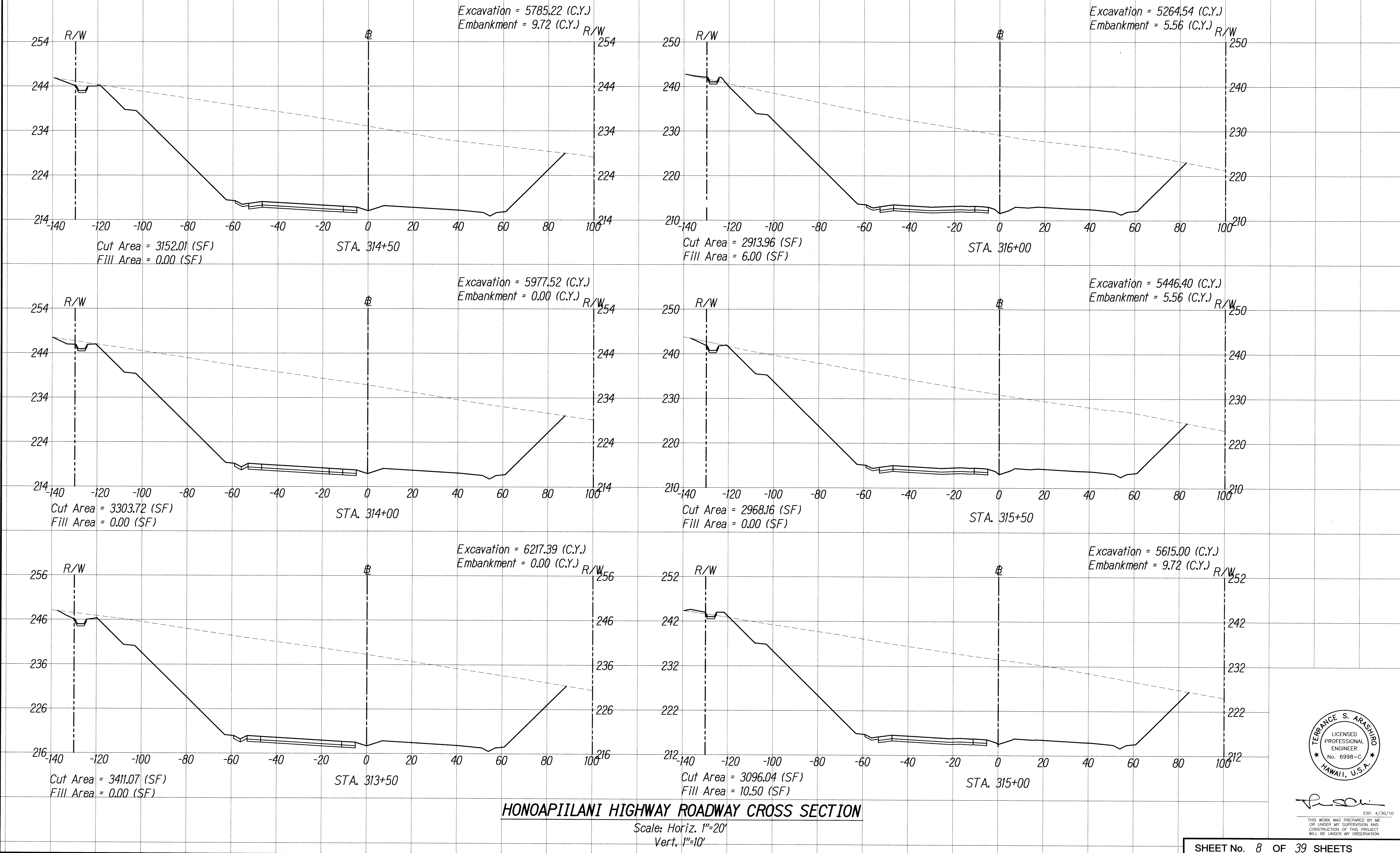
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Vert. 1"=10'



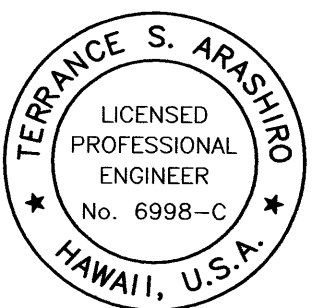
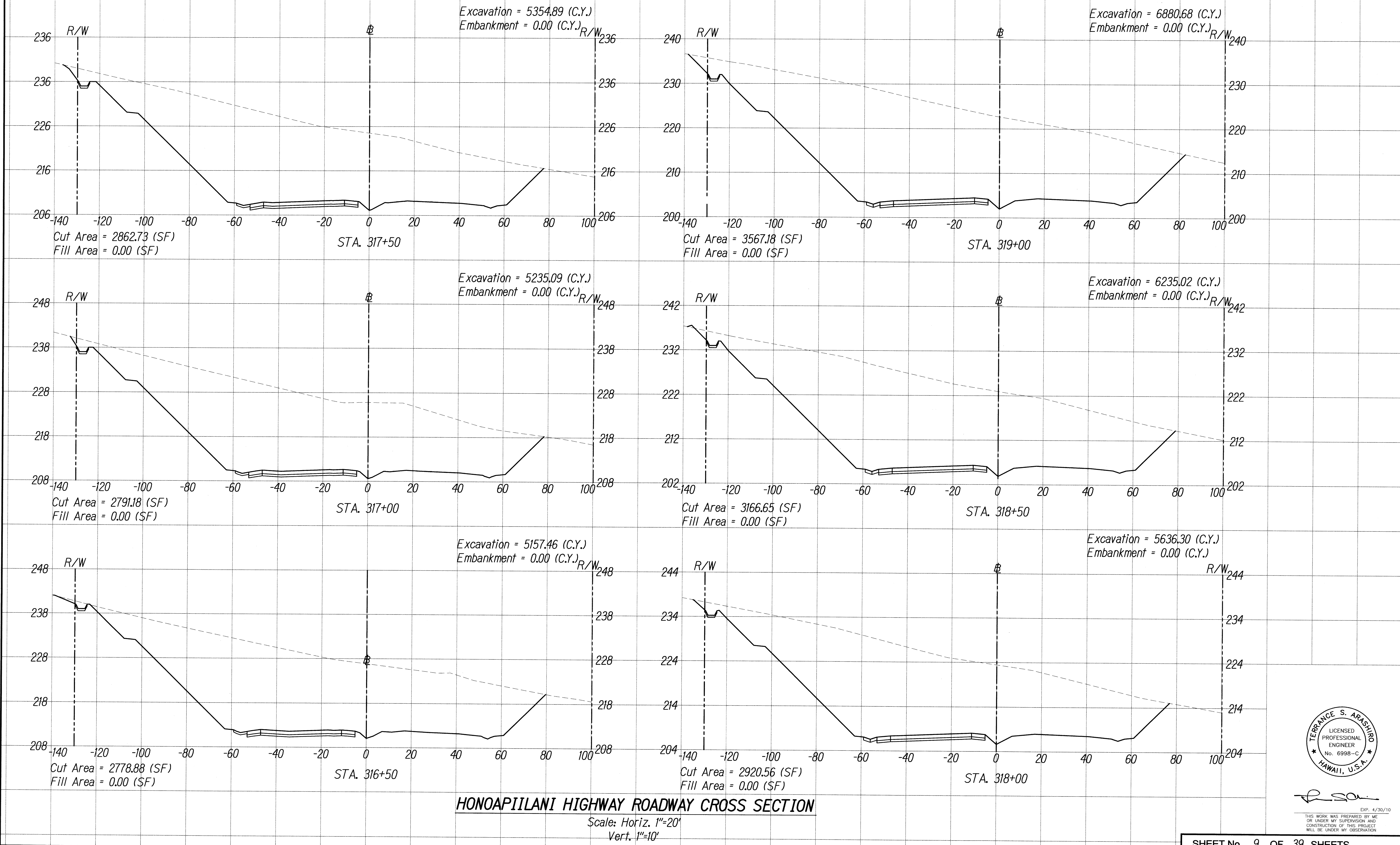
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	182	213

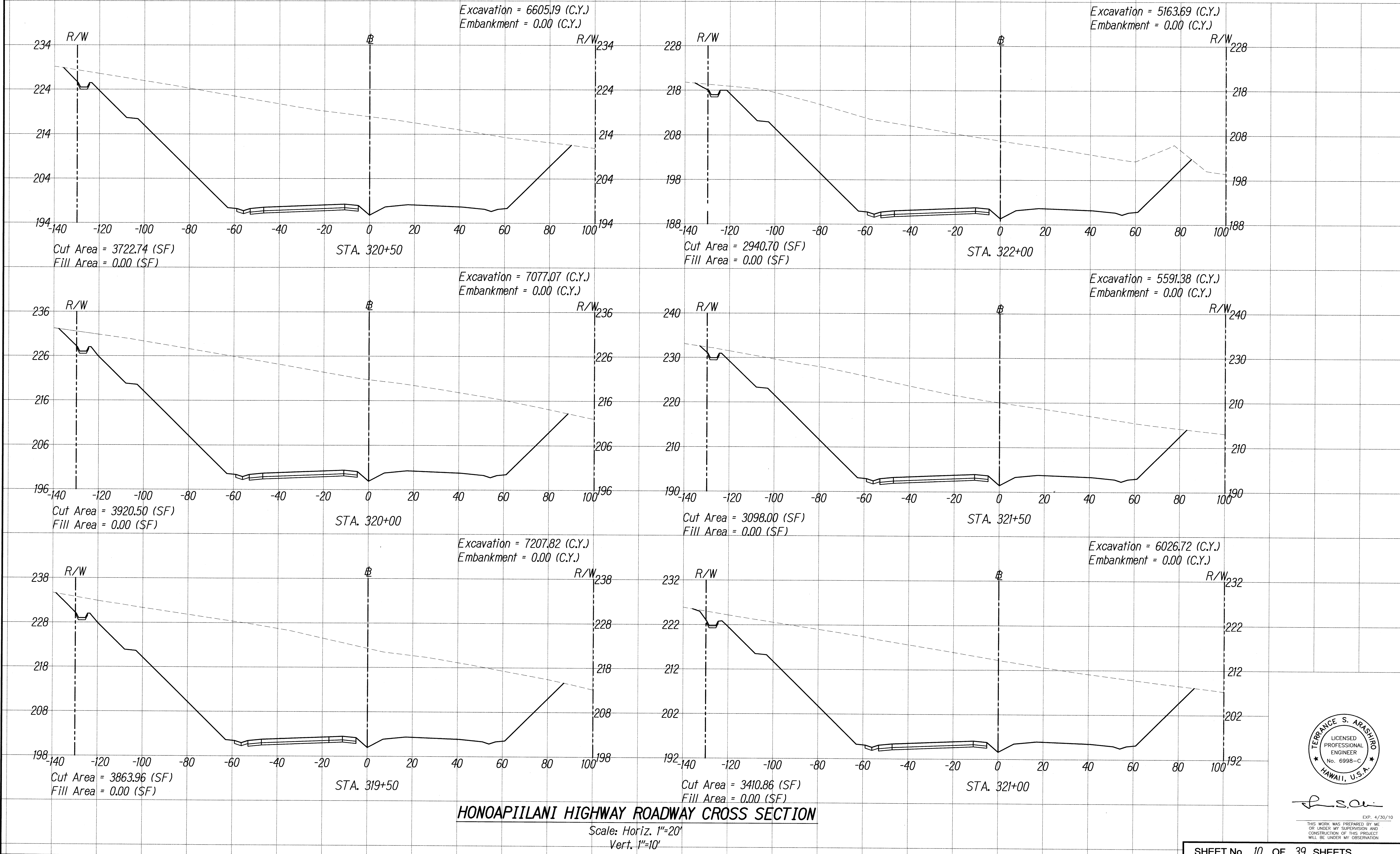


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	183	213

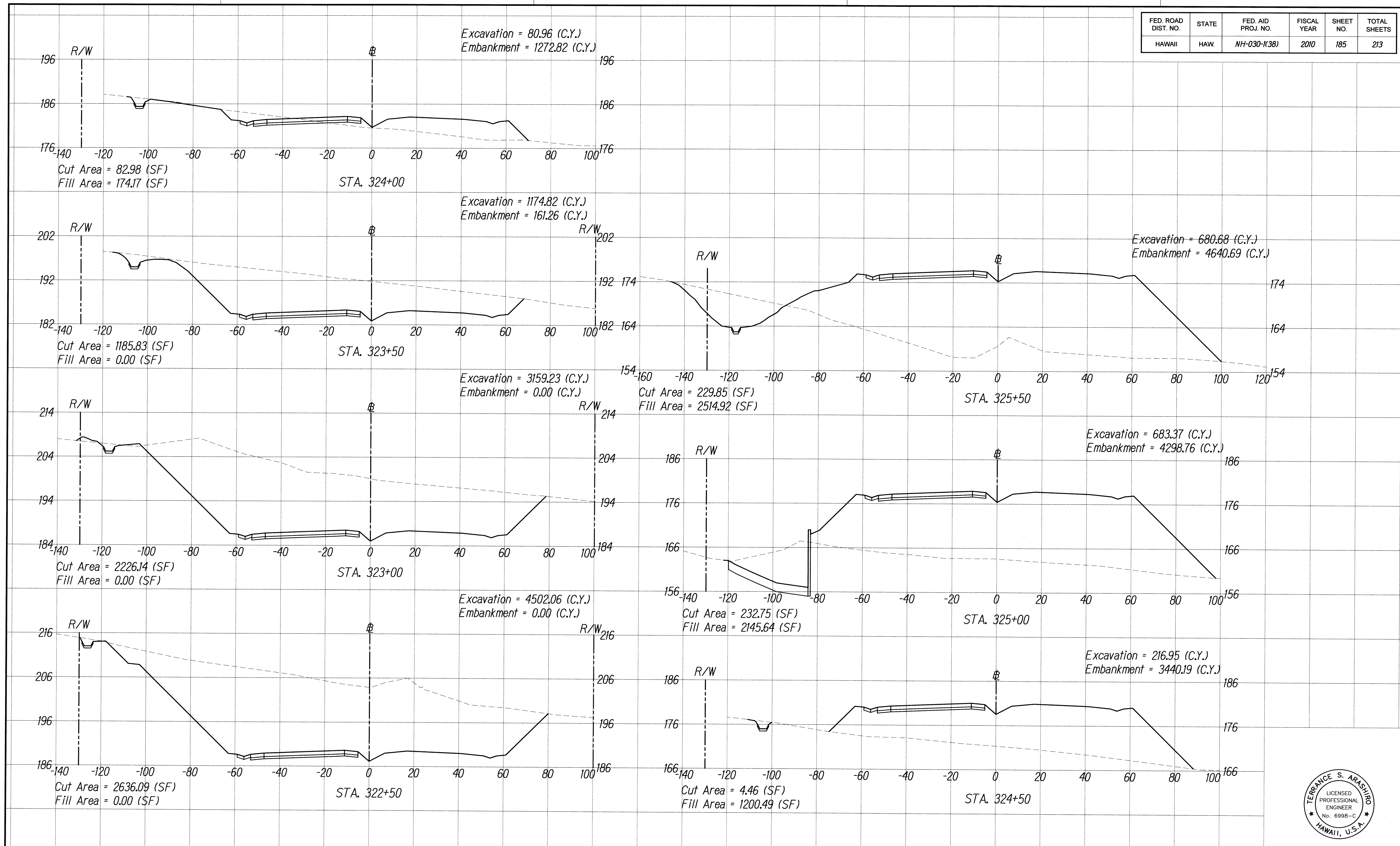


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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-K(38)	2010	184	213

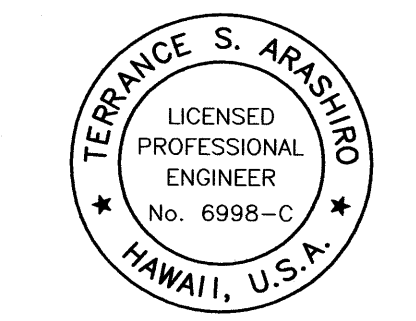


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-K(38)	2010	185	213



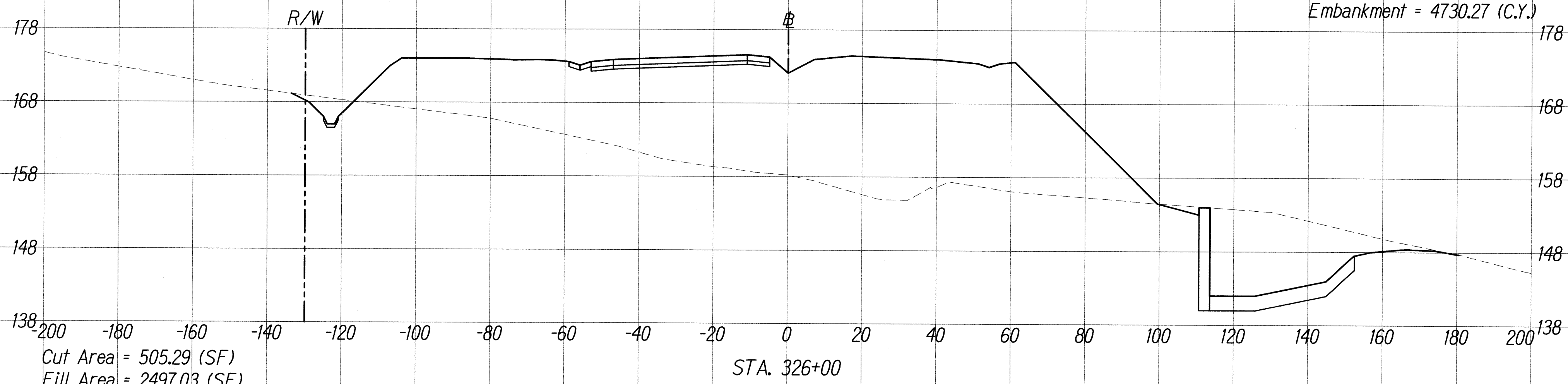
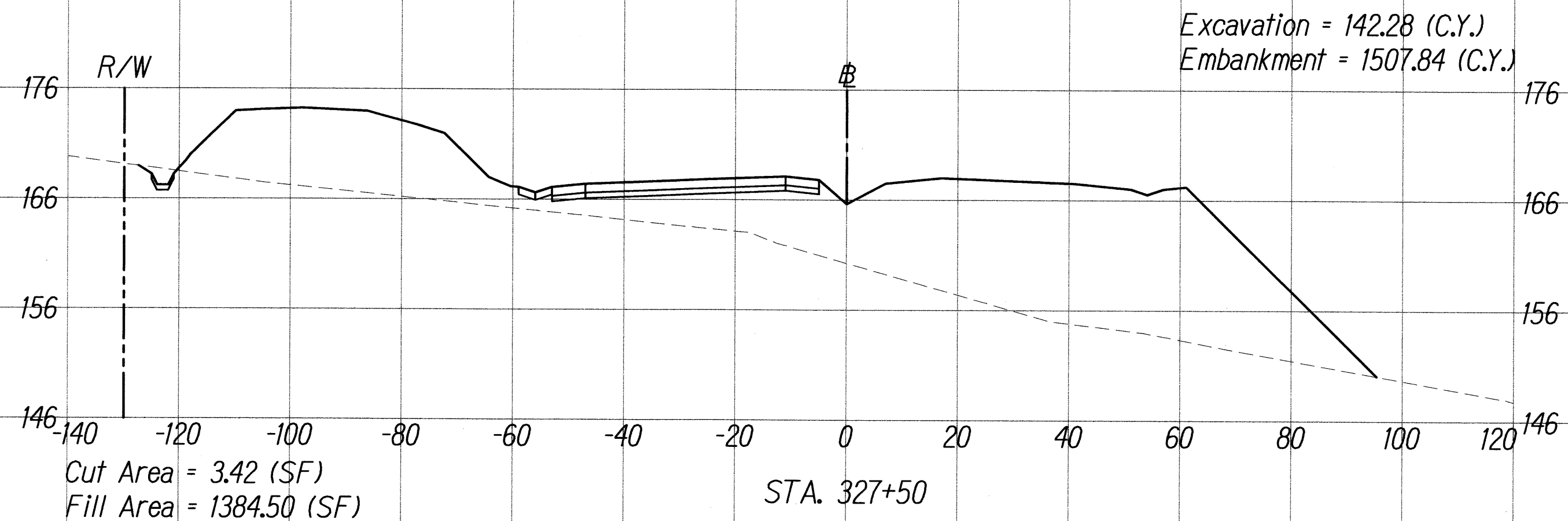
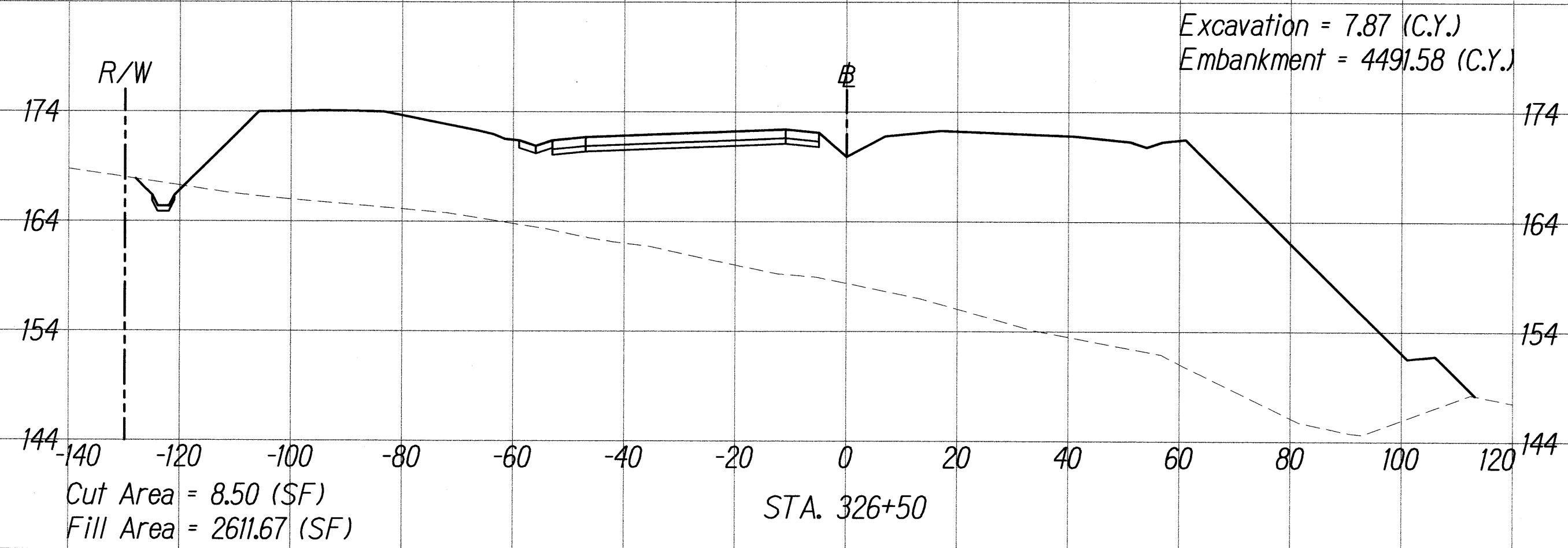
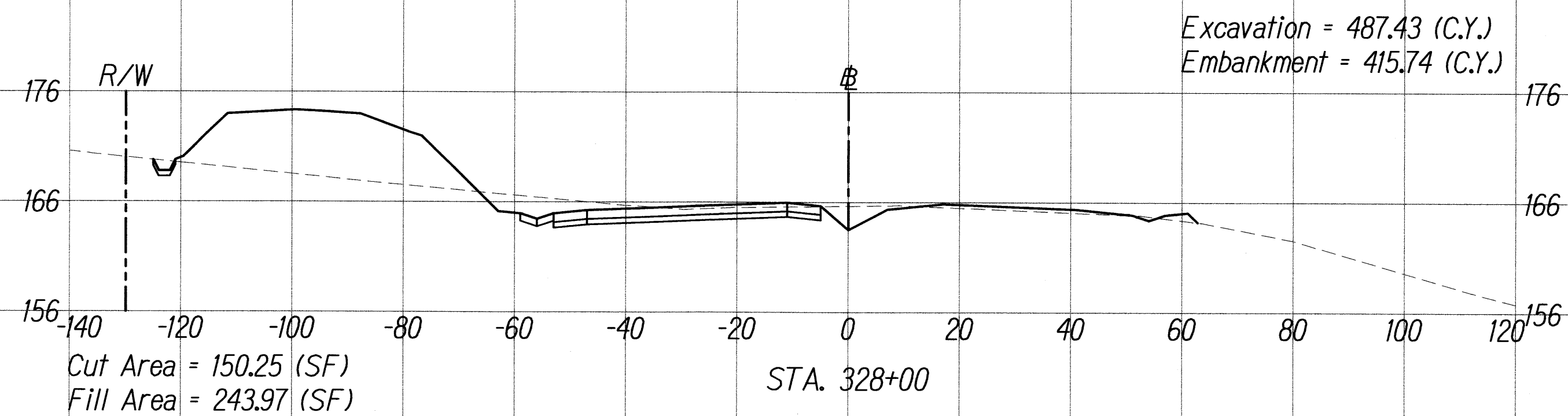
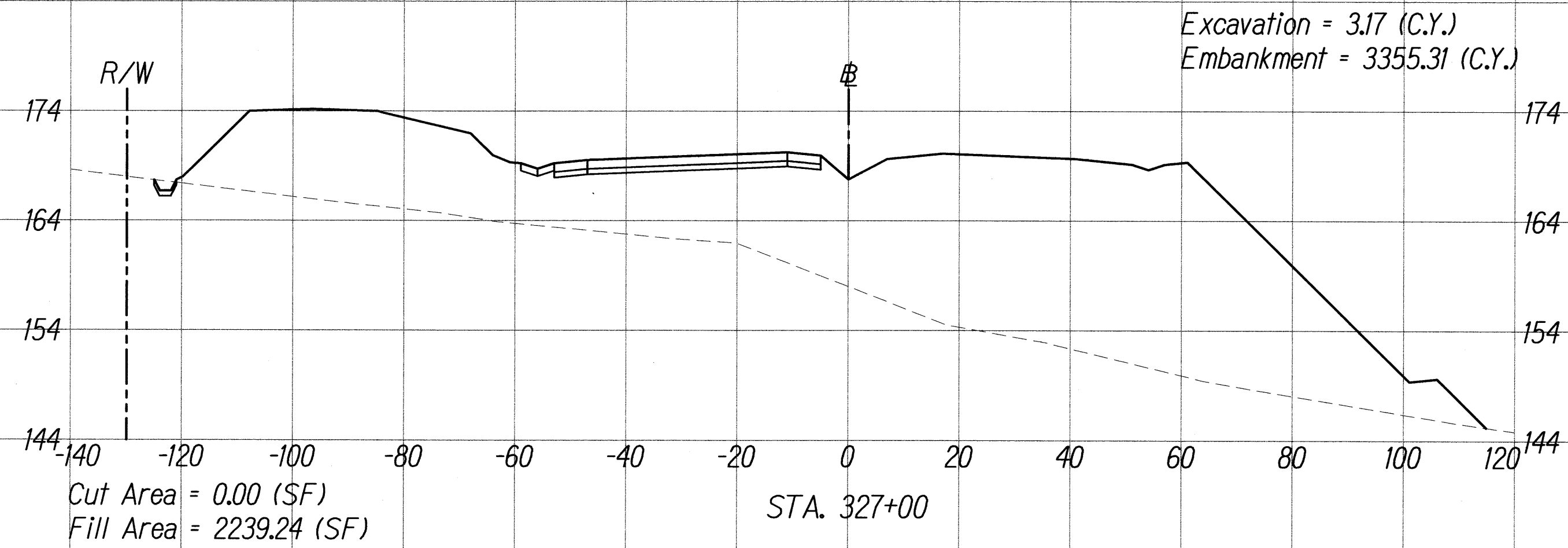
HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

Scale: Horiz. 1"=20'
Vert. 1"=10'



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	186	213



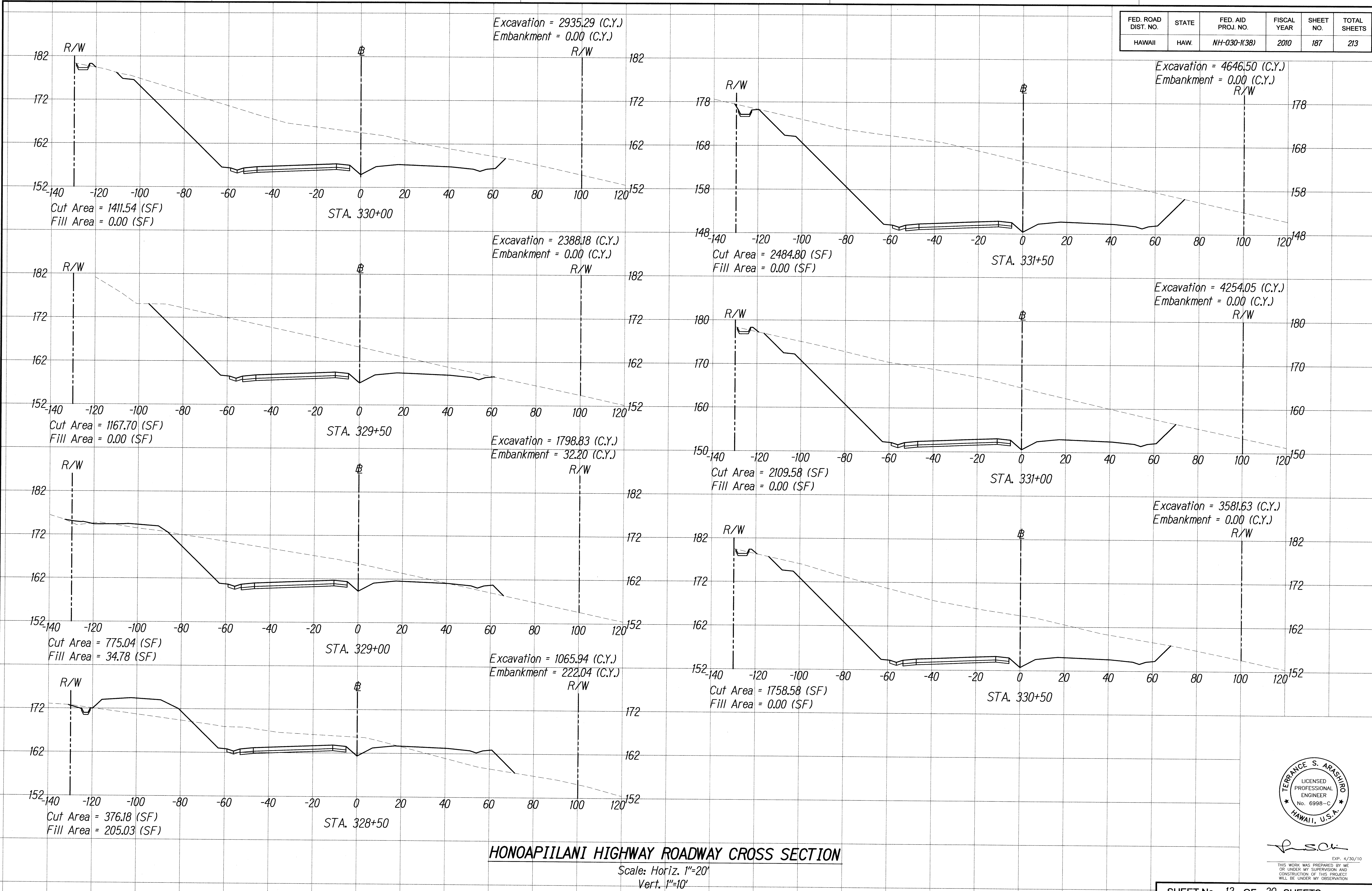
HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

Scale: Horiz. 1"=20'
Vert. 1"=10'



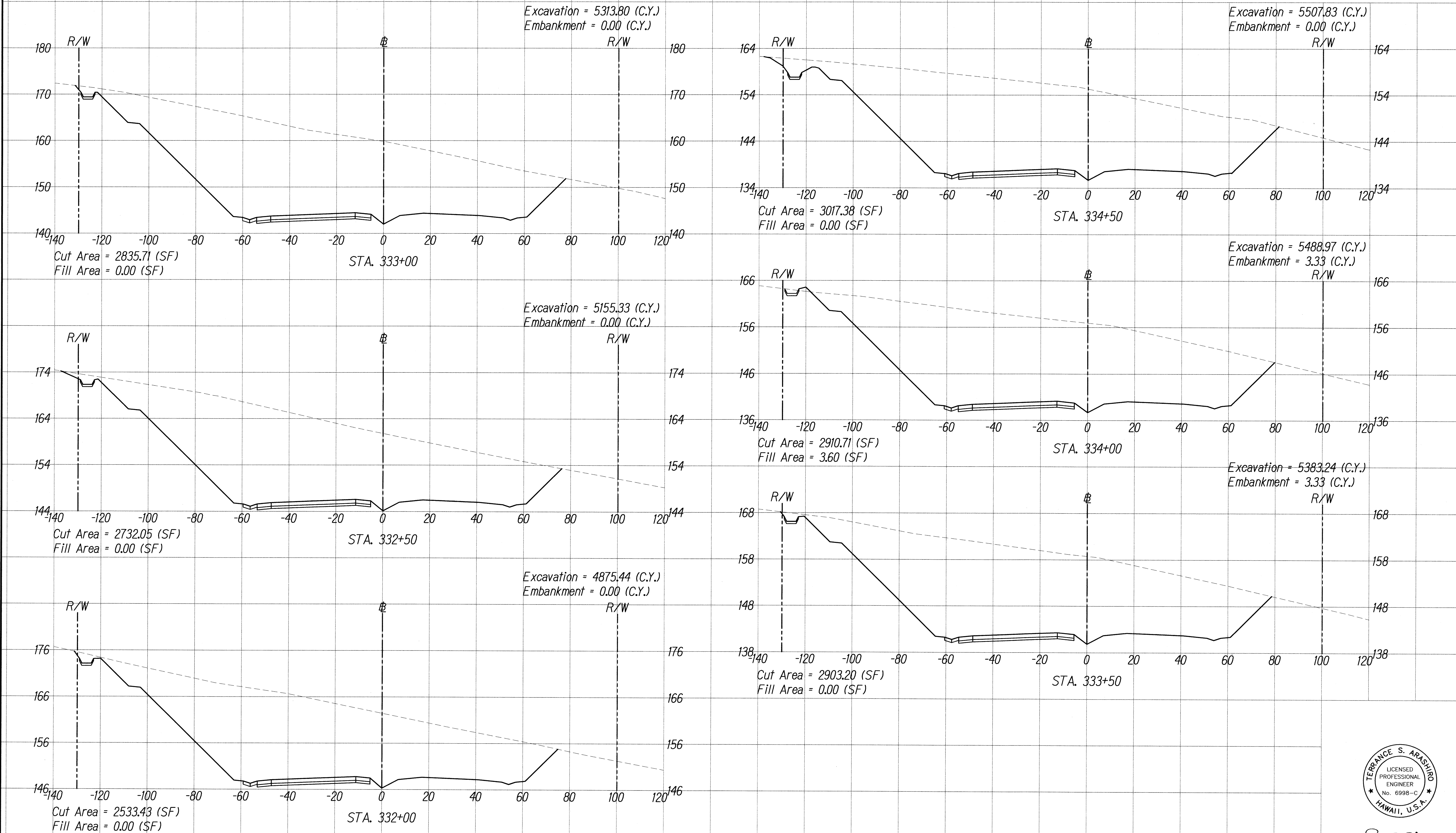
EXP. 4/30/10
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	187	213



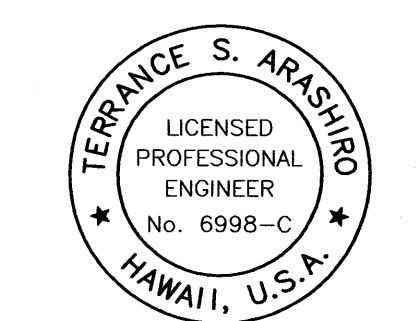
EXP. 4/30/10
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-K(38)	2010	188	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

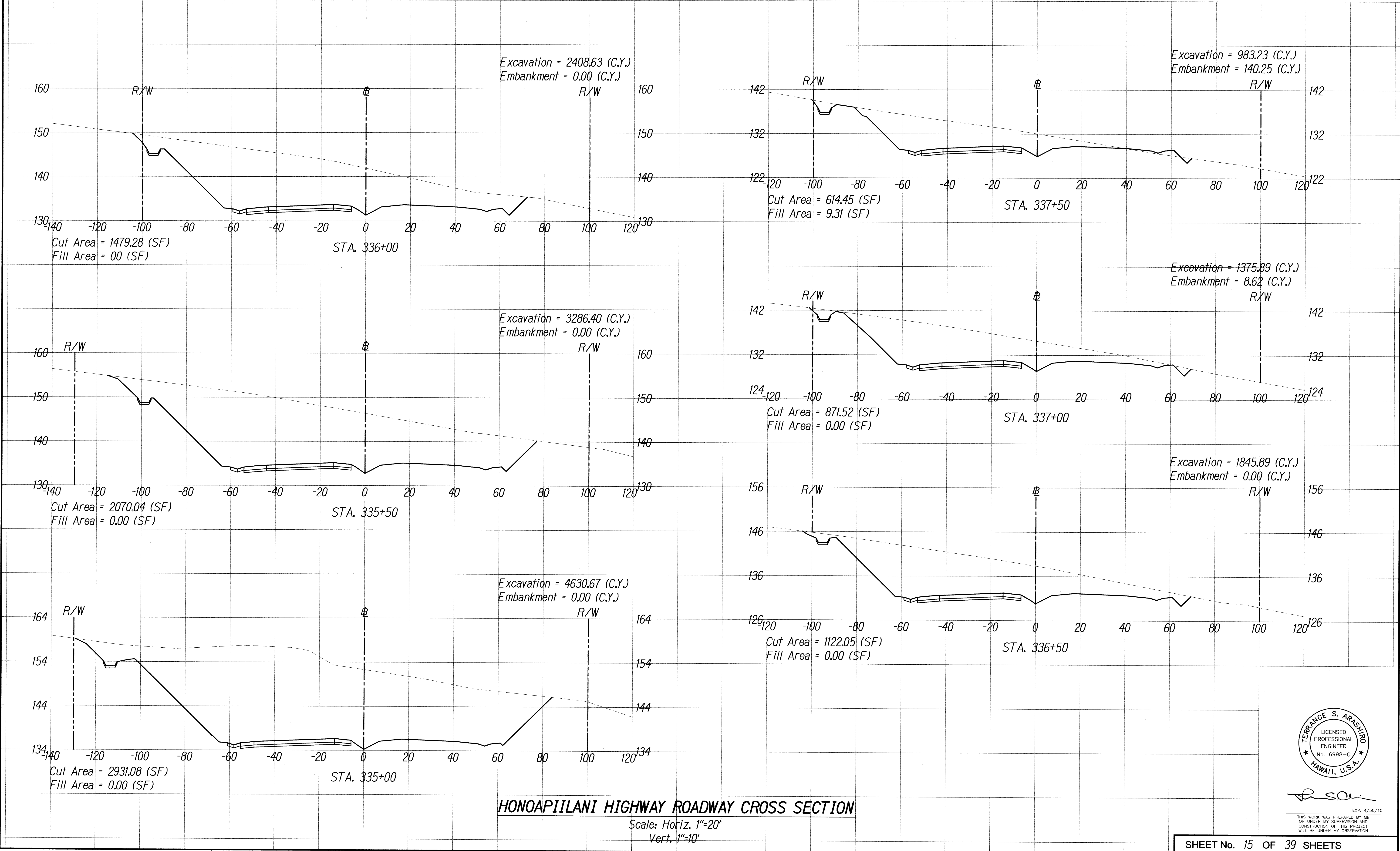
Scale: Horiz. 1"=20'
 Vert. 1"=10'



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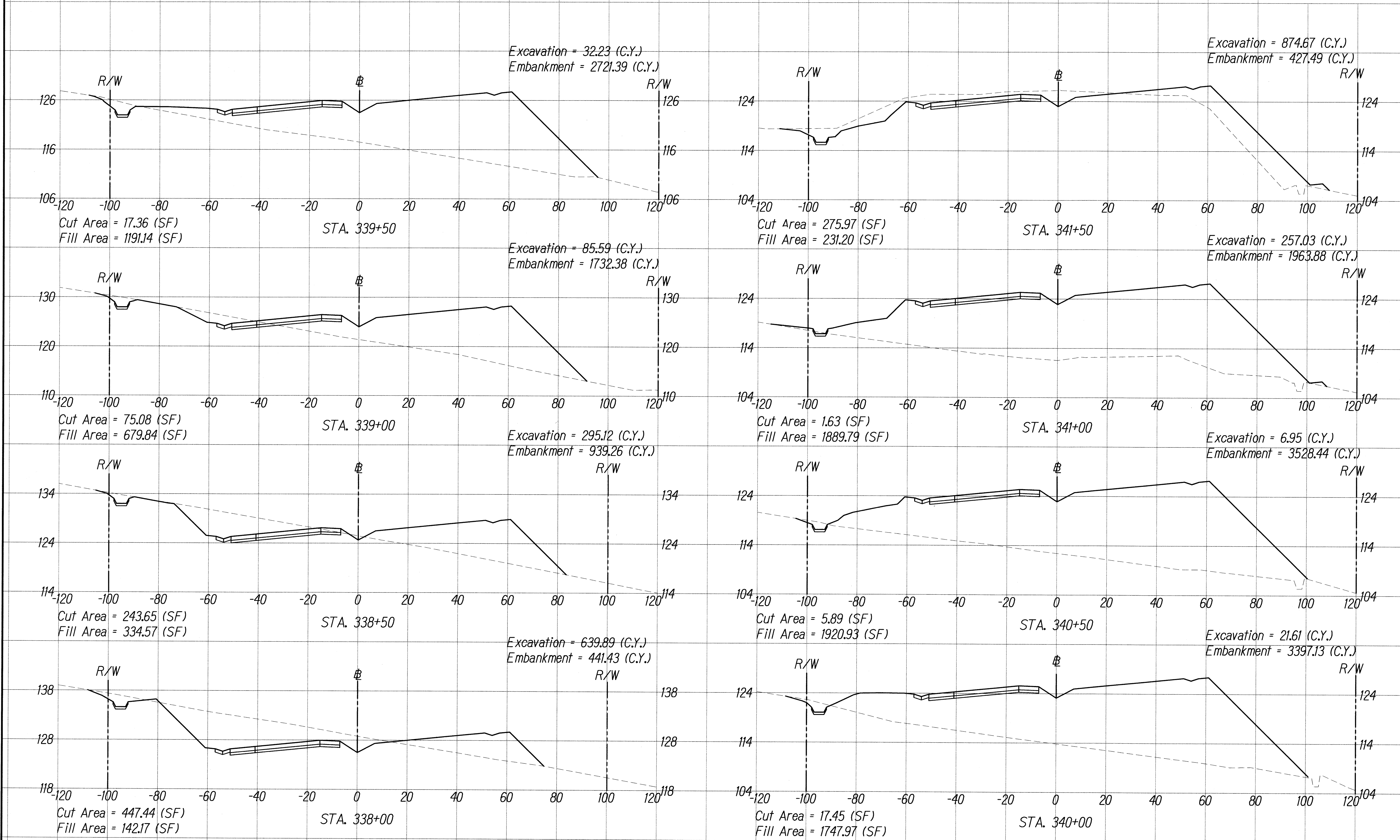
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	189	213



EXP. 4/30/10

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	190	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

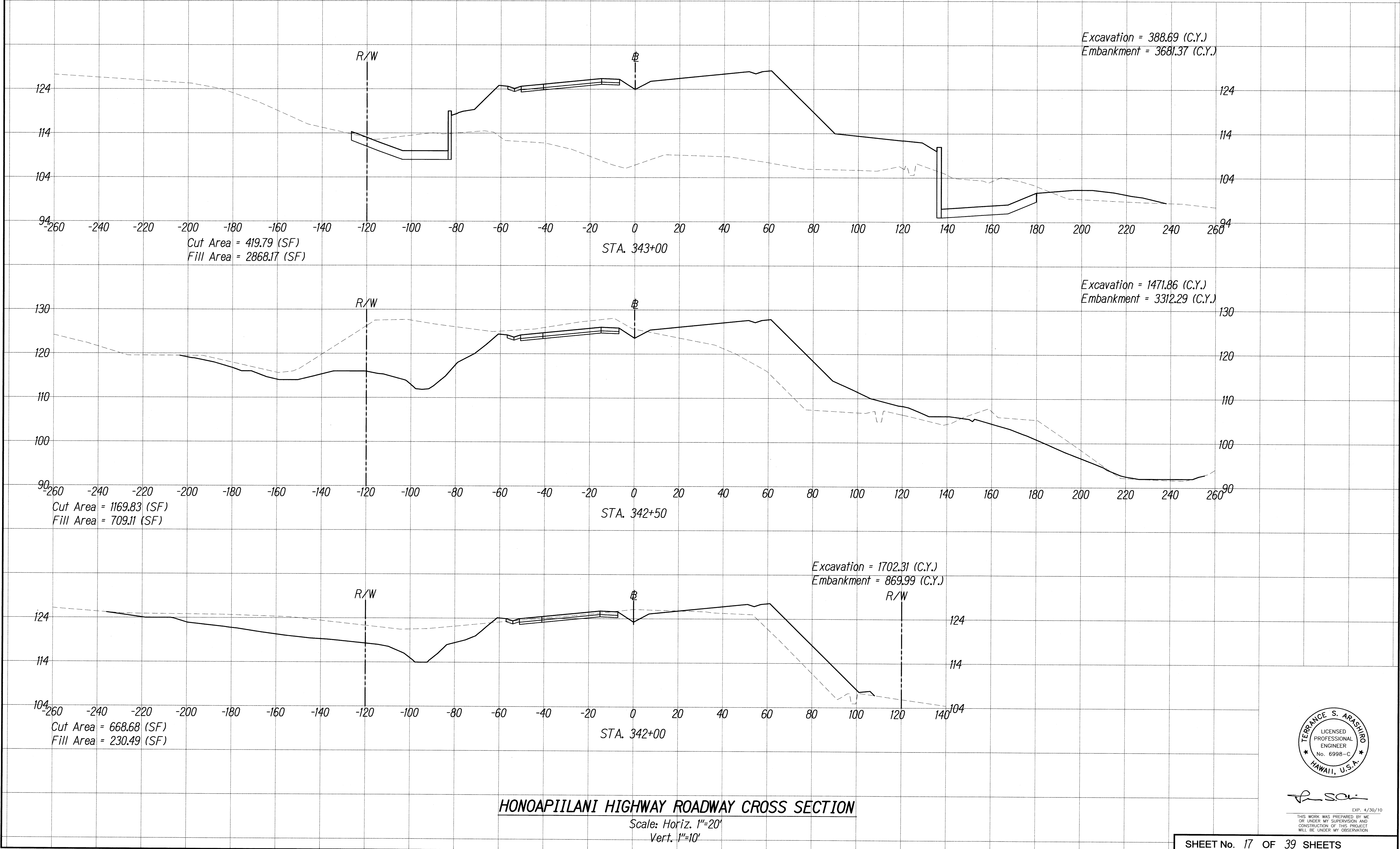
Scale: Horiz. 1"=20'
 Vert. 1"=10'



Terrance S. Arashiro

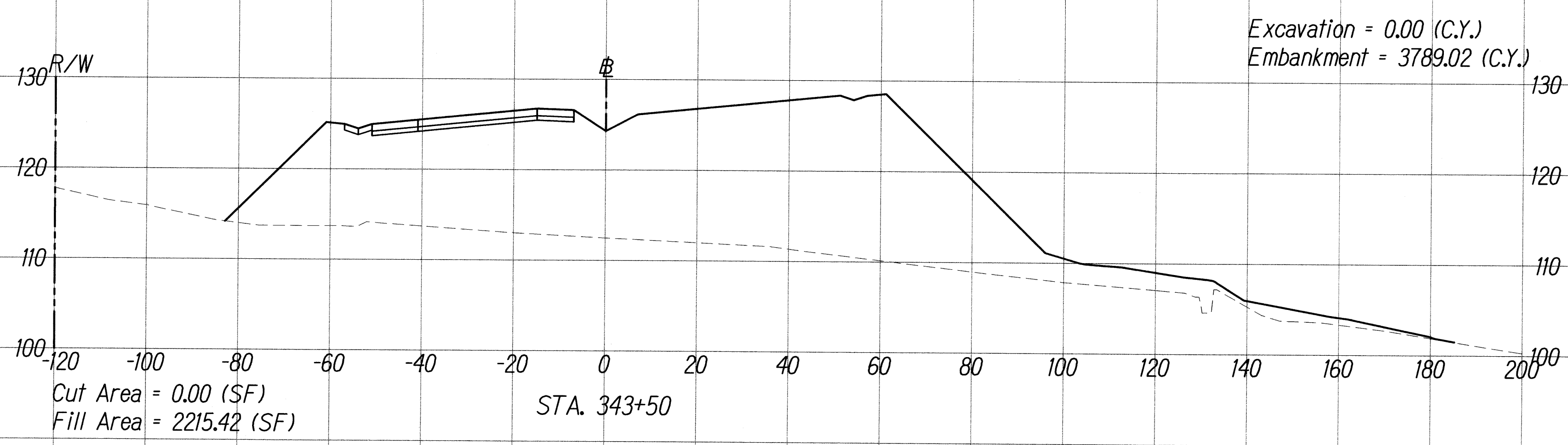
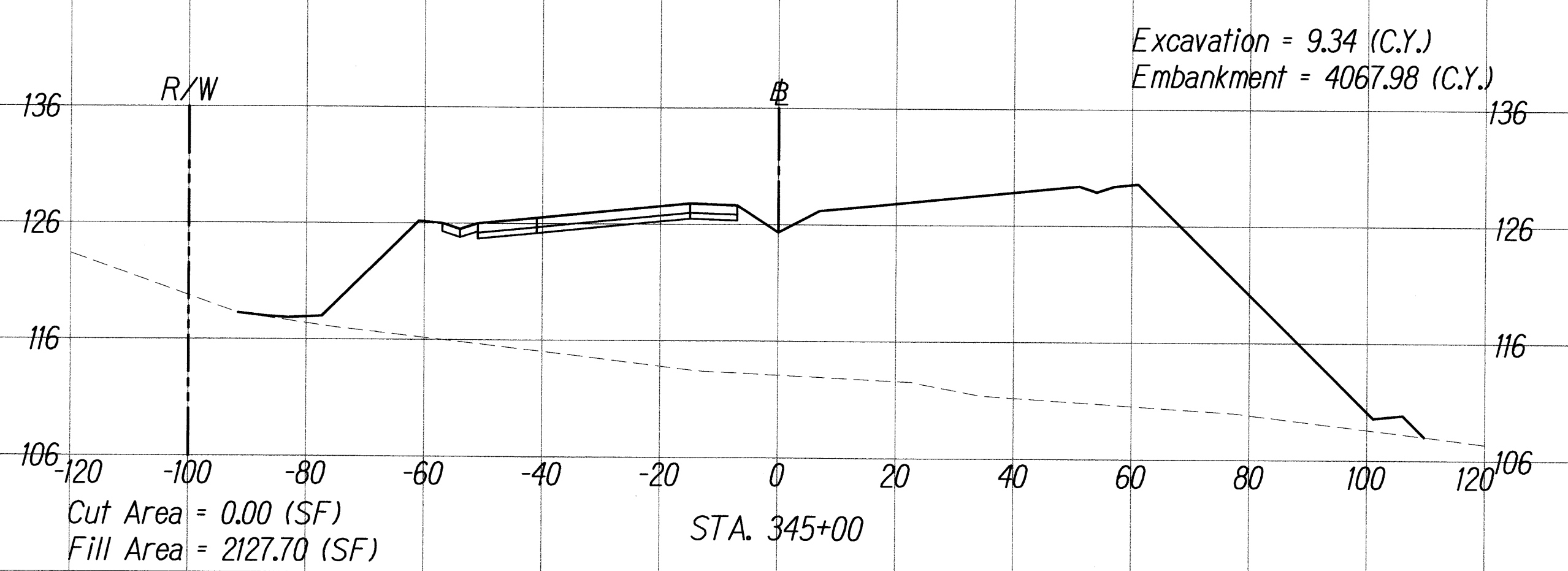
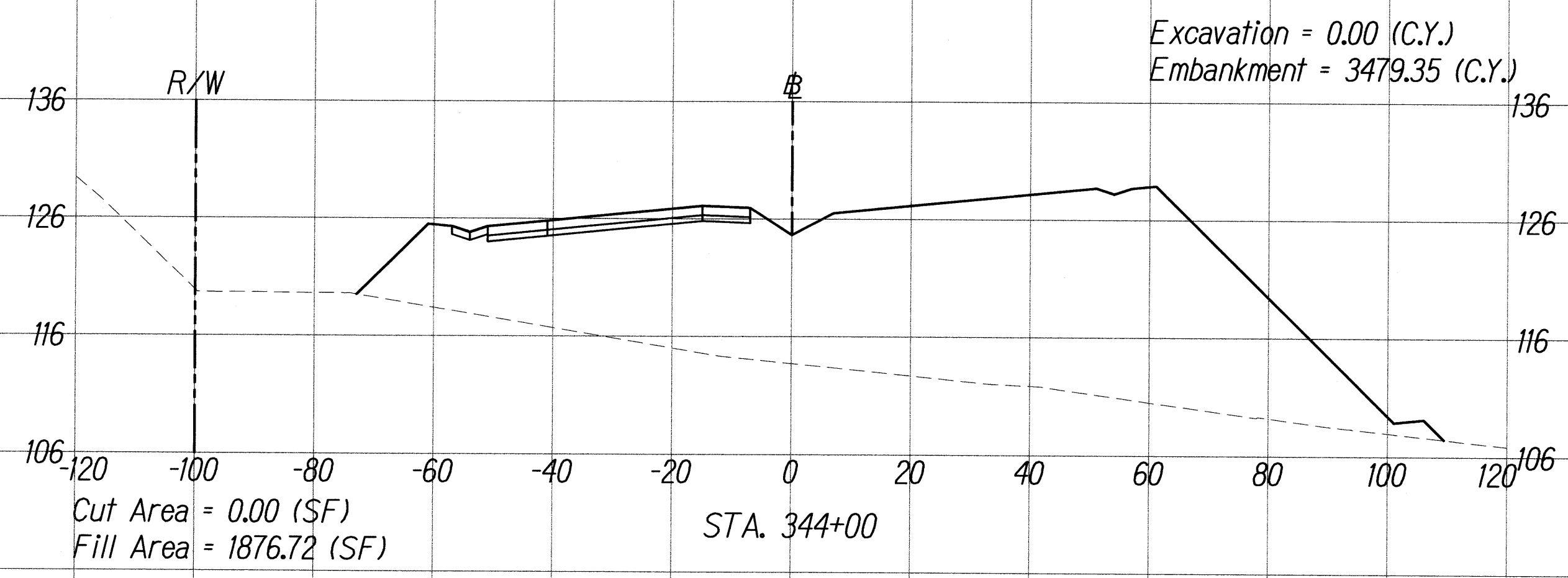
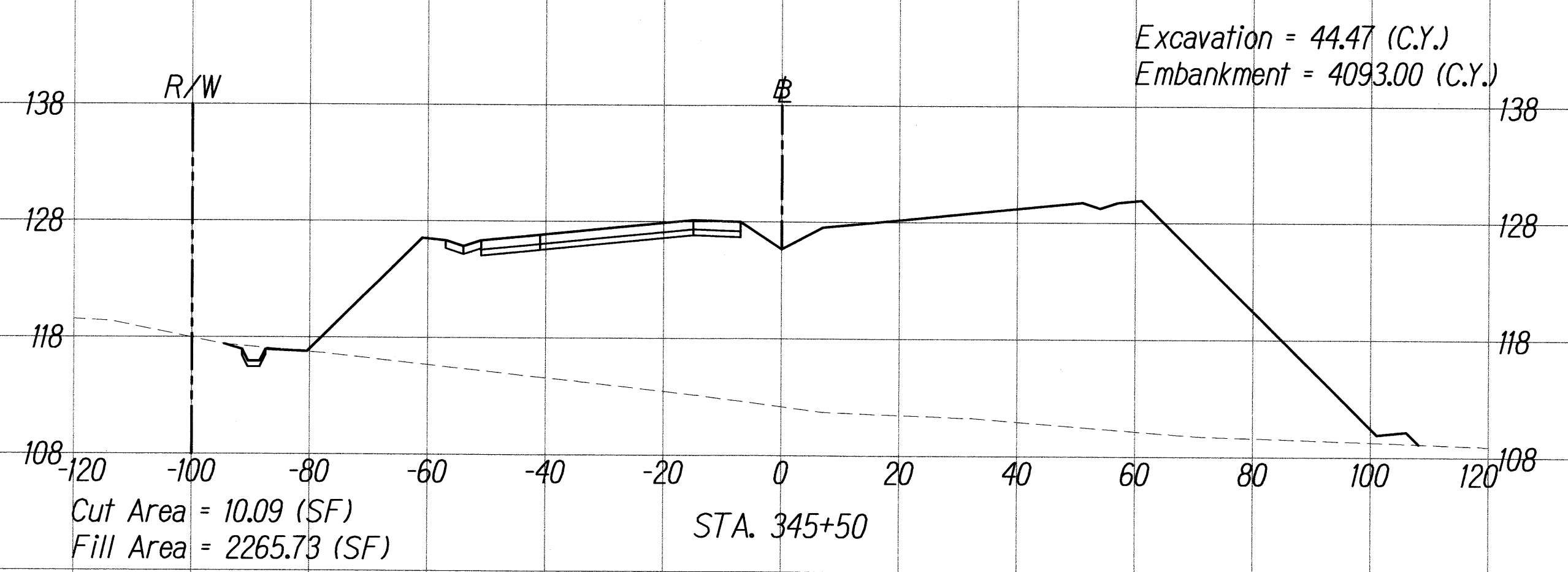
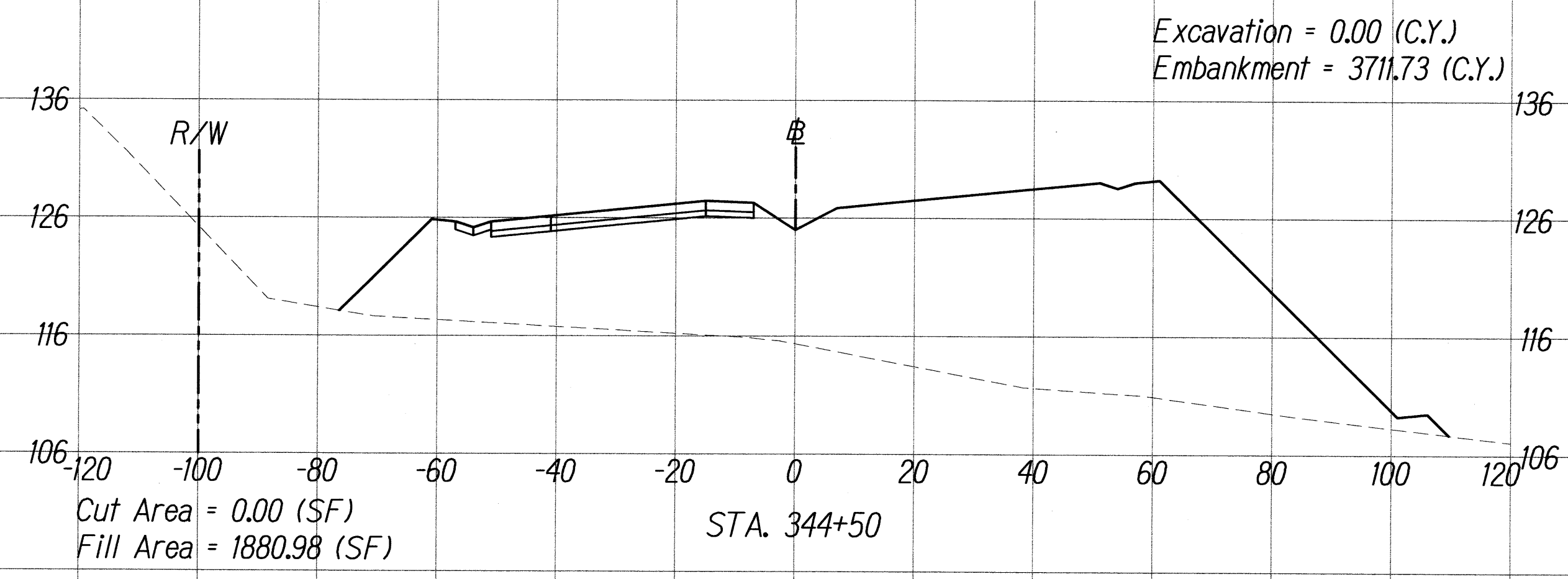
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	191	213



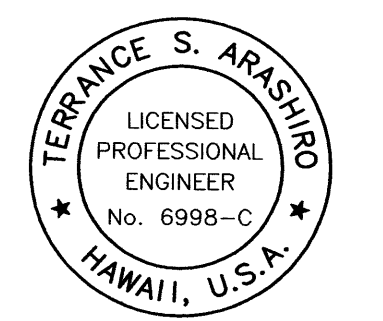
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-K38	2010	192	213



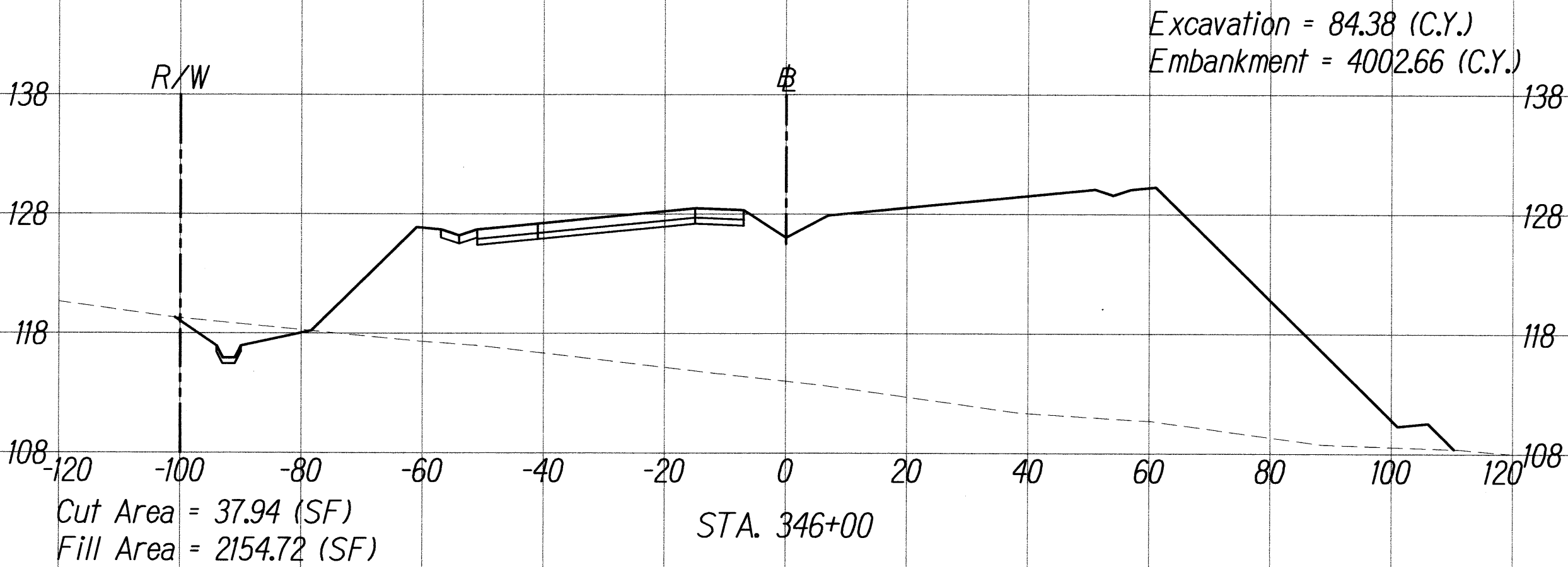
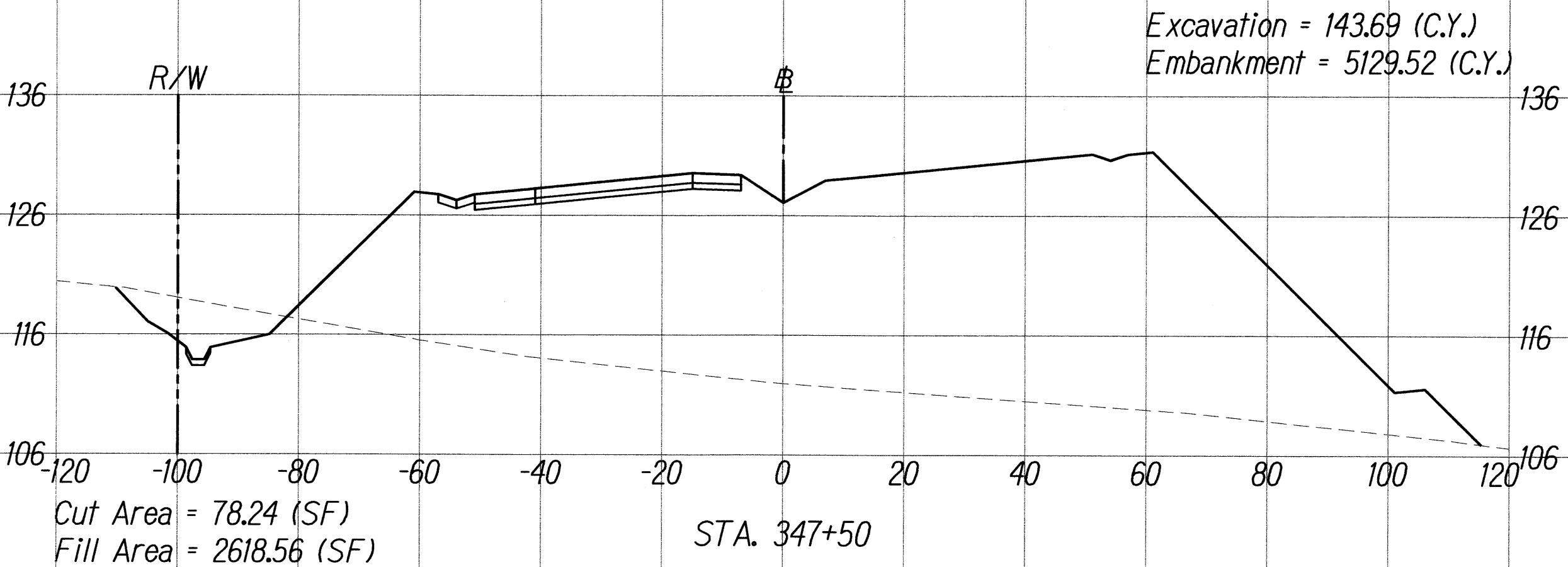
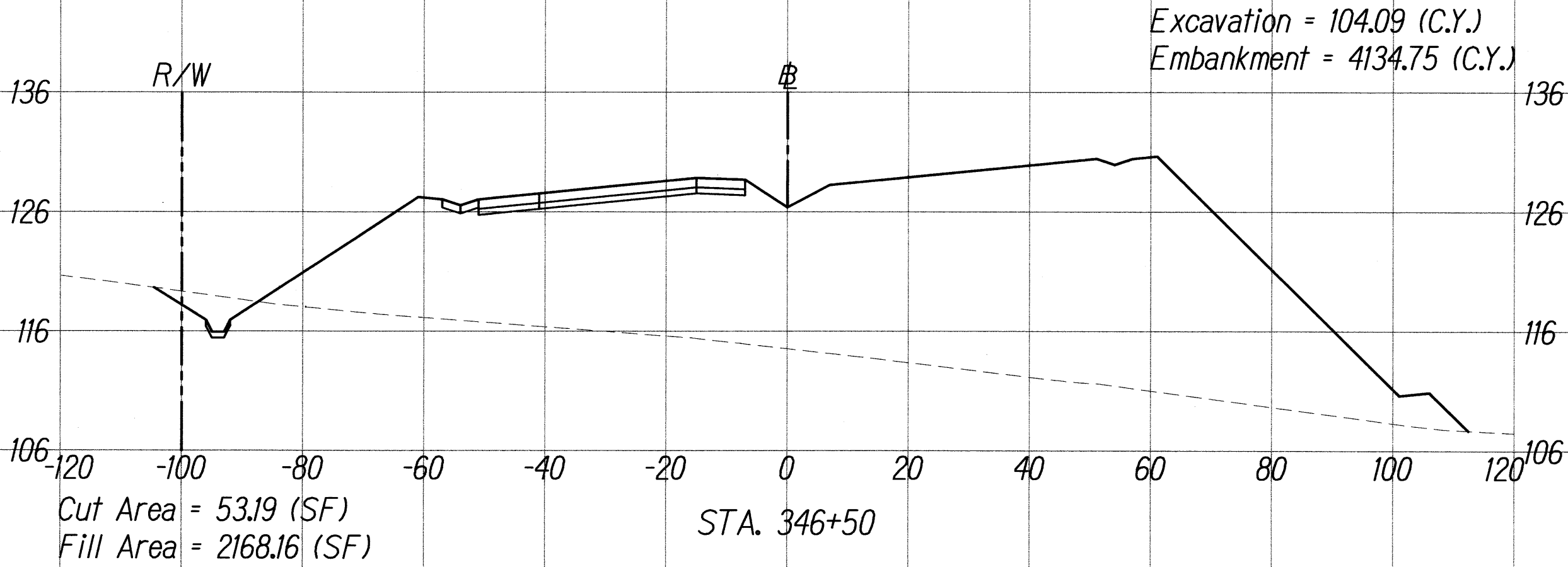
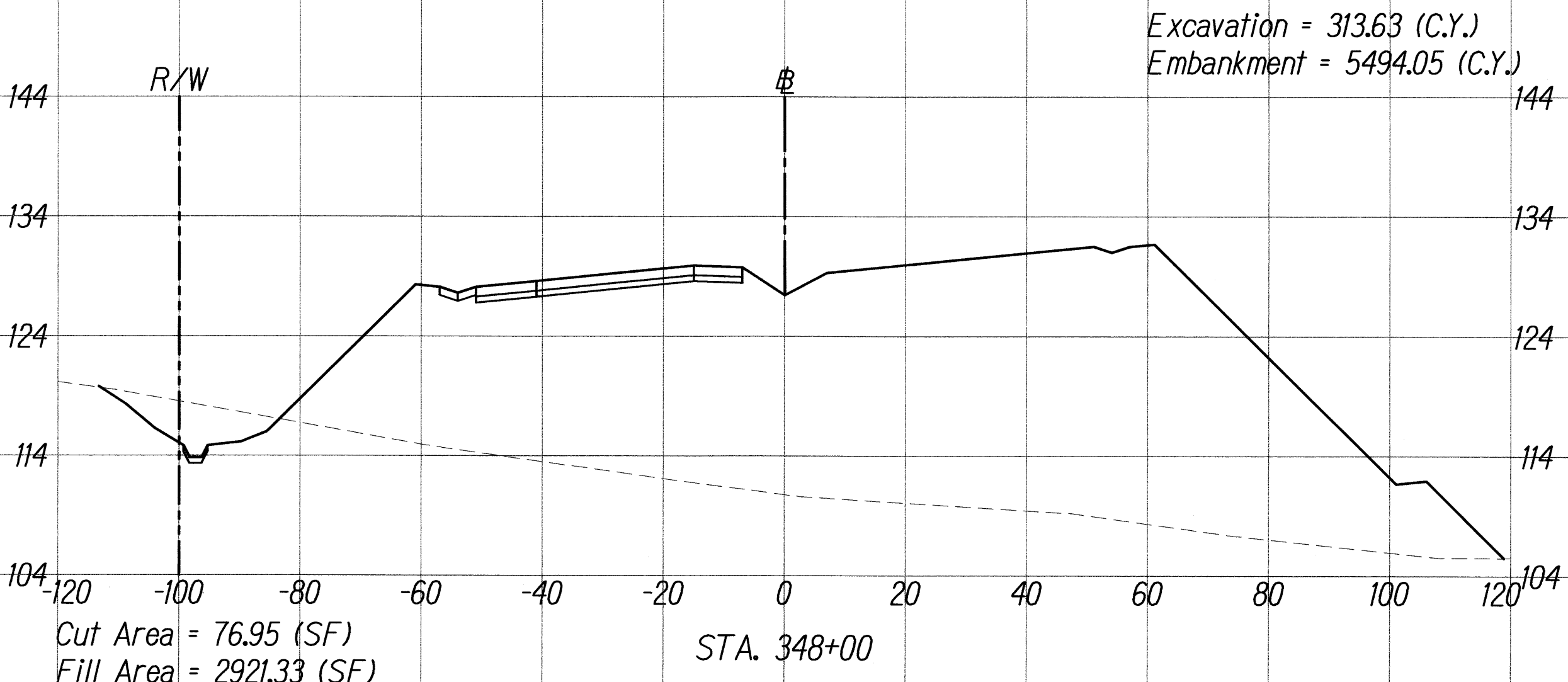
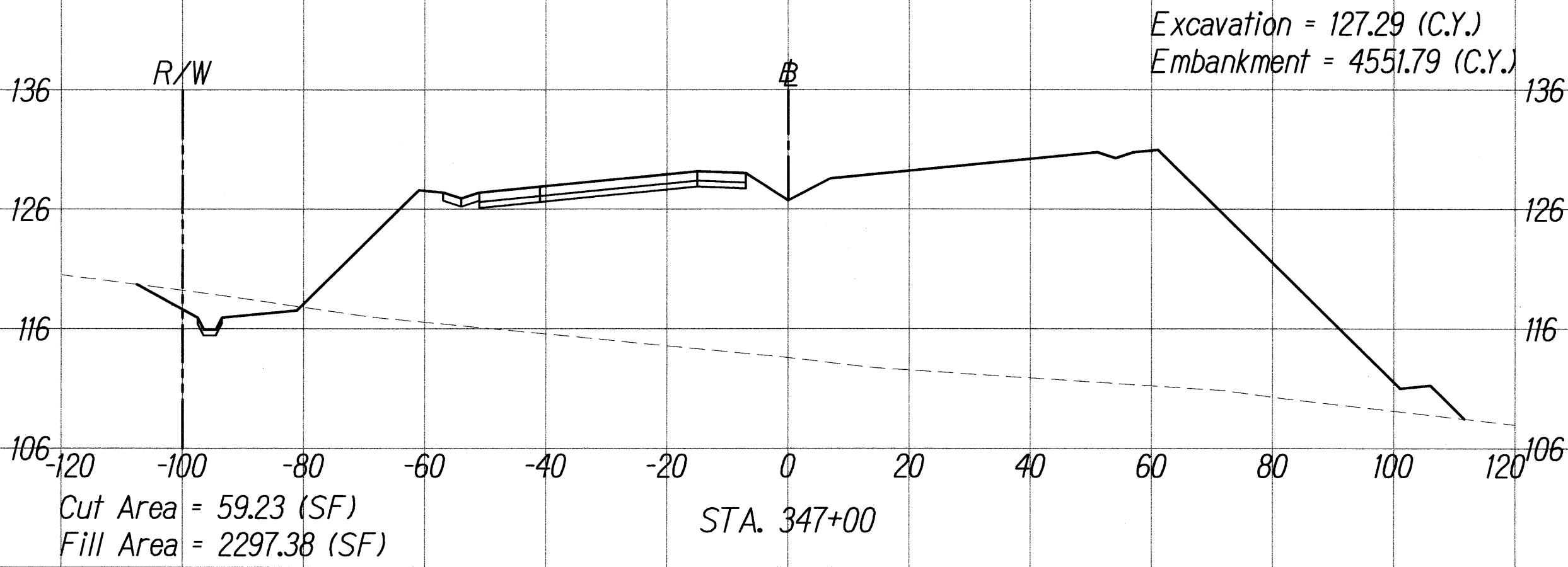
HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

Scale: Horiz. 1"=20'
Vert. 1"=10'



EXP. 4/30/10
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	193	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

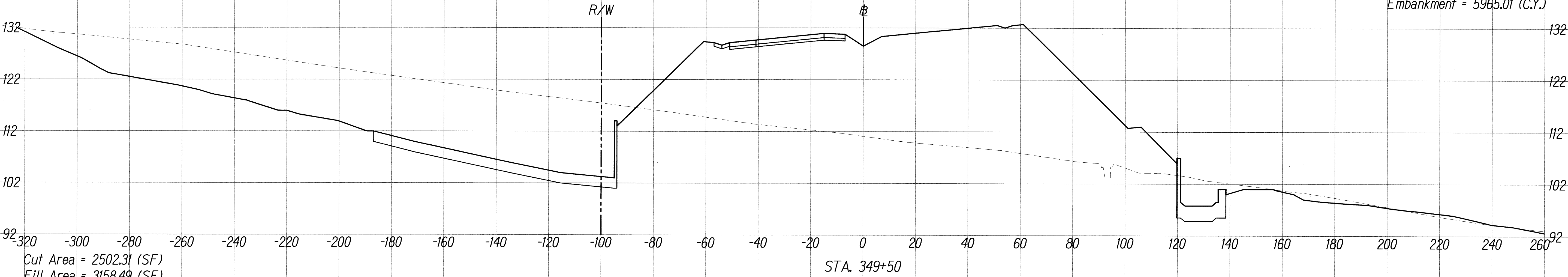
Scale: Horiz. 1"=20'
Vert. 1"=10'



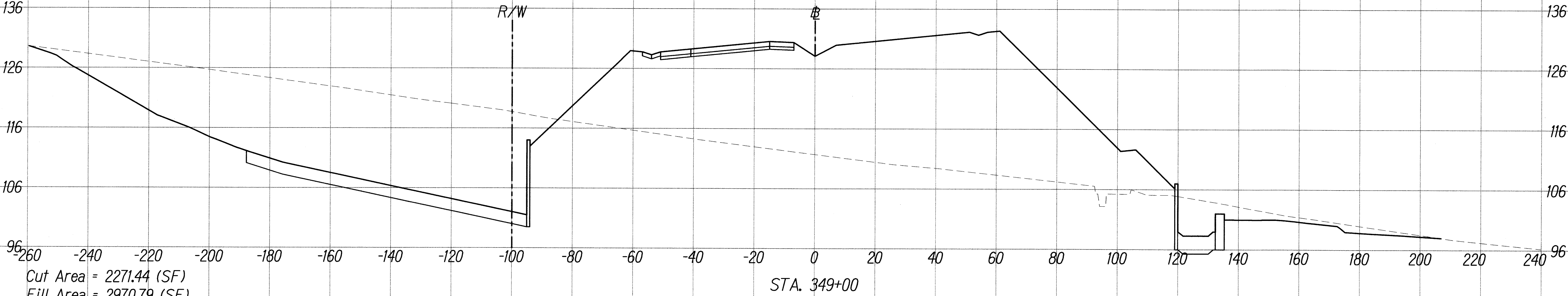
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	194	213

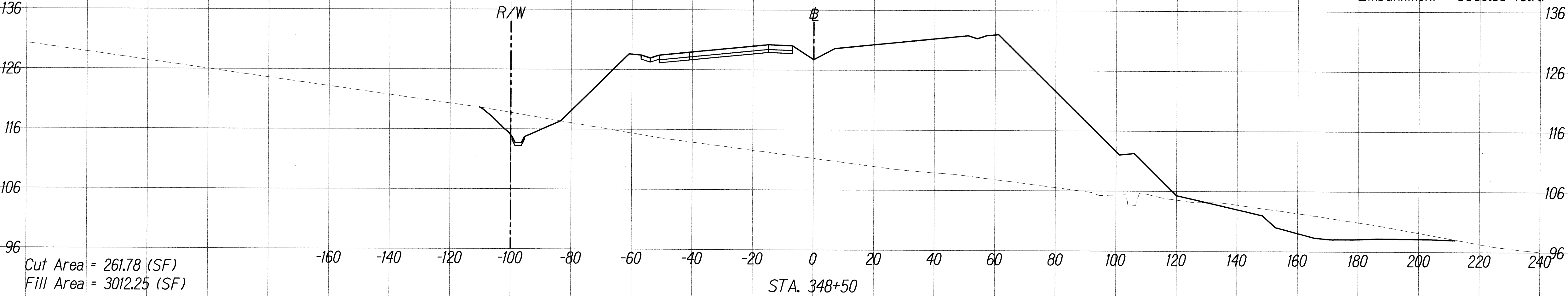
Excavation = 2316.95 (C.Y.)
Embankment = 5965.01 (C.Y.)



Excavation = 4420.13 (C.Y.)
Embankment = 5675.26 (C.Y.)

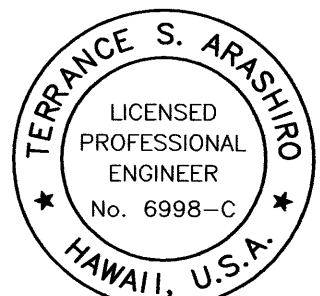


Excavation = 2345.56 (C.Y.)
Embankment = 5539.85 (C.Y.)



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

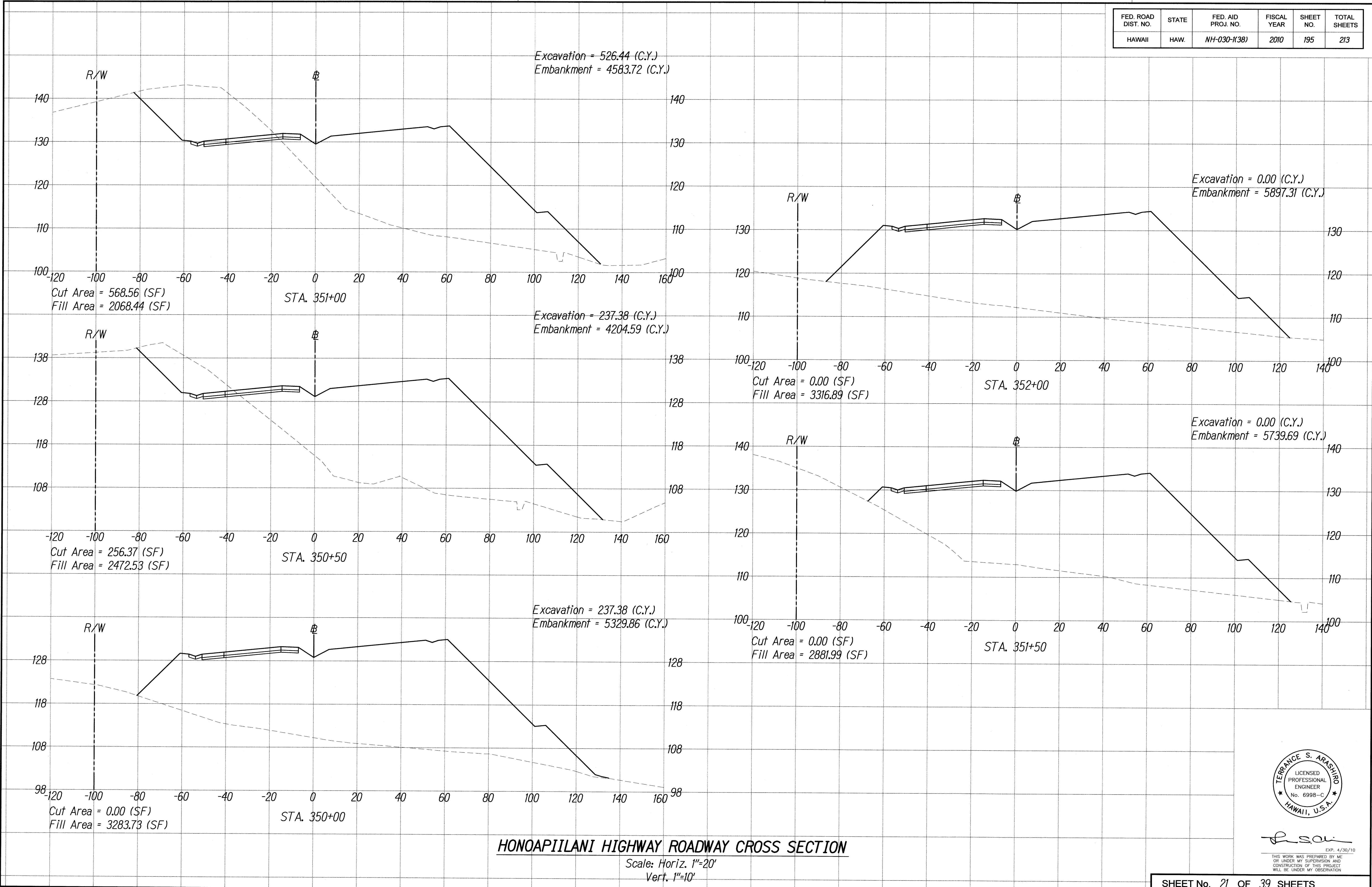
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Vert. 1"=10'



T.S.A.

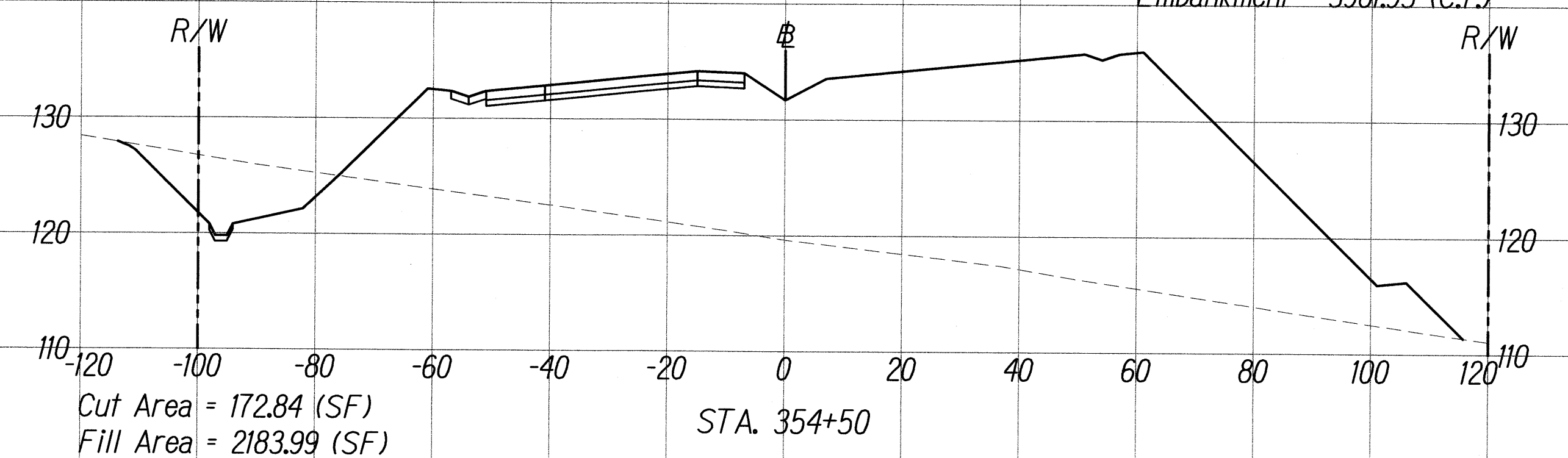
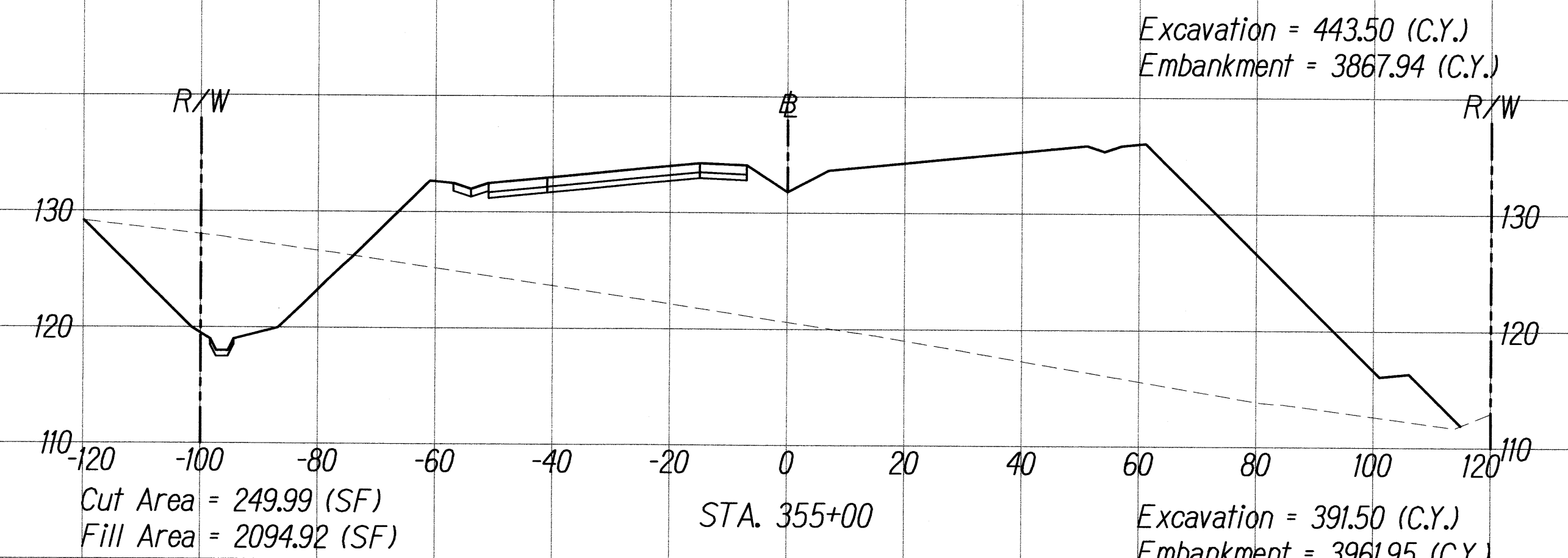
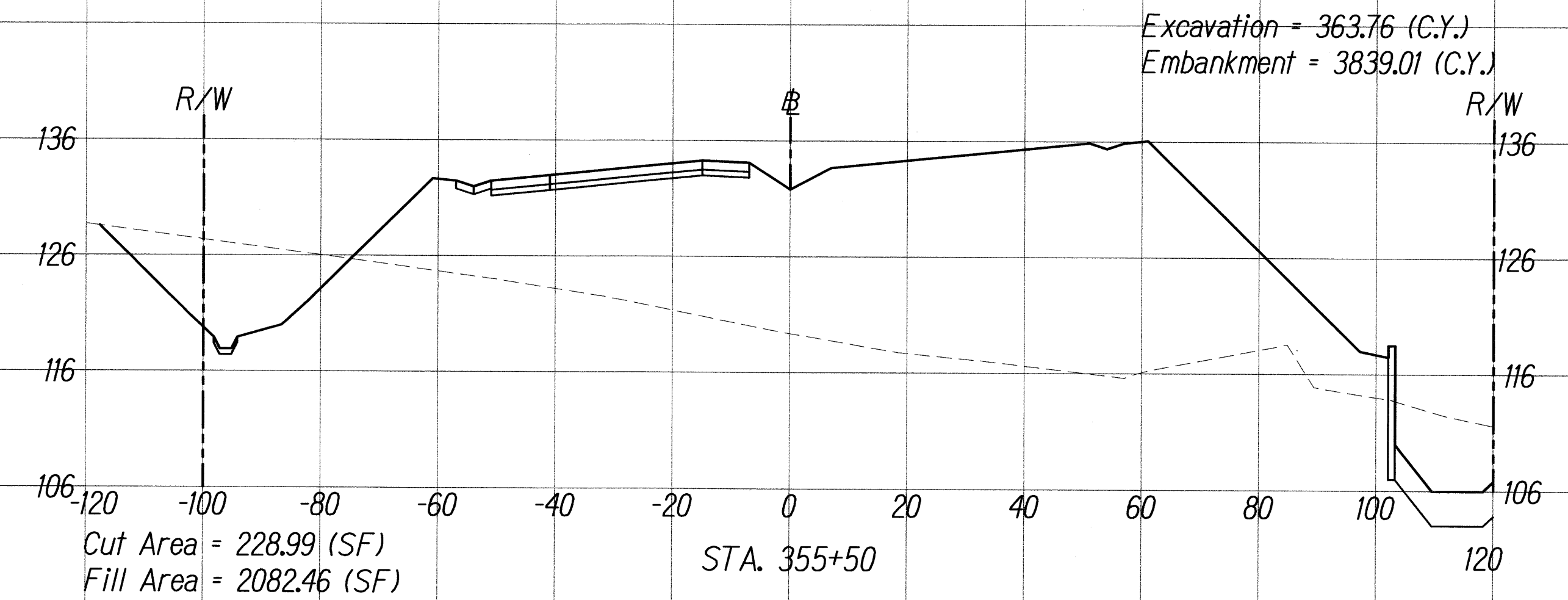
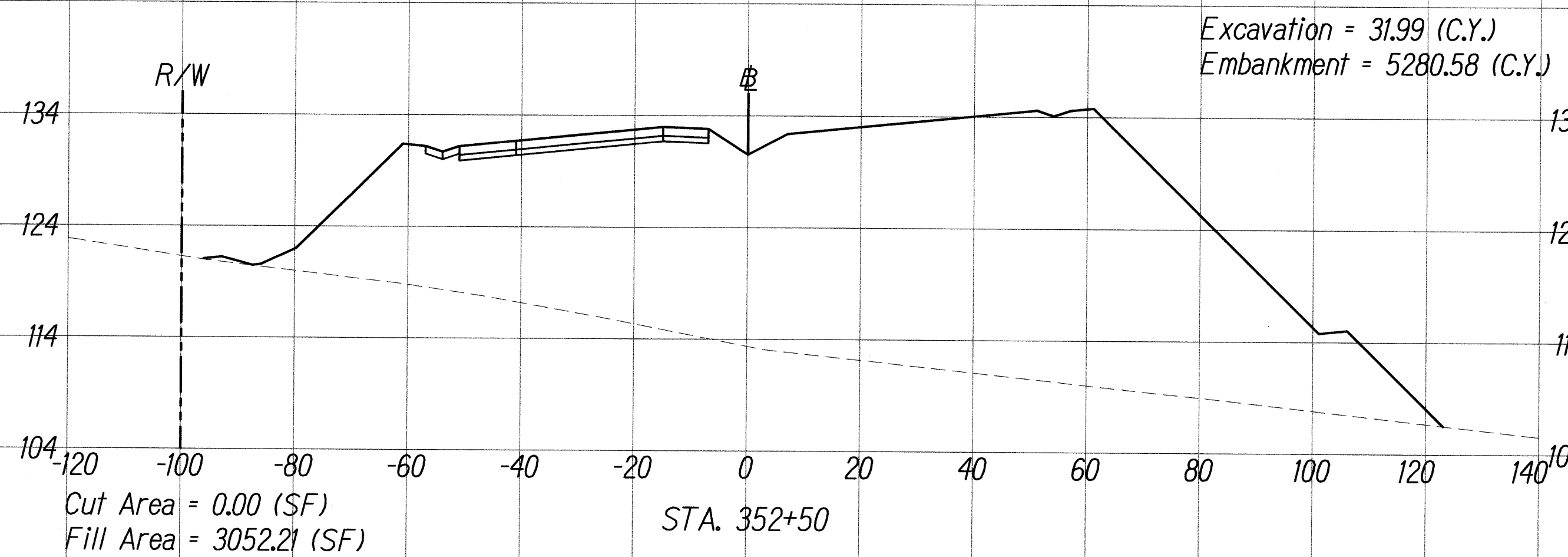
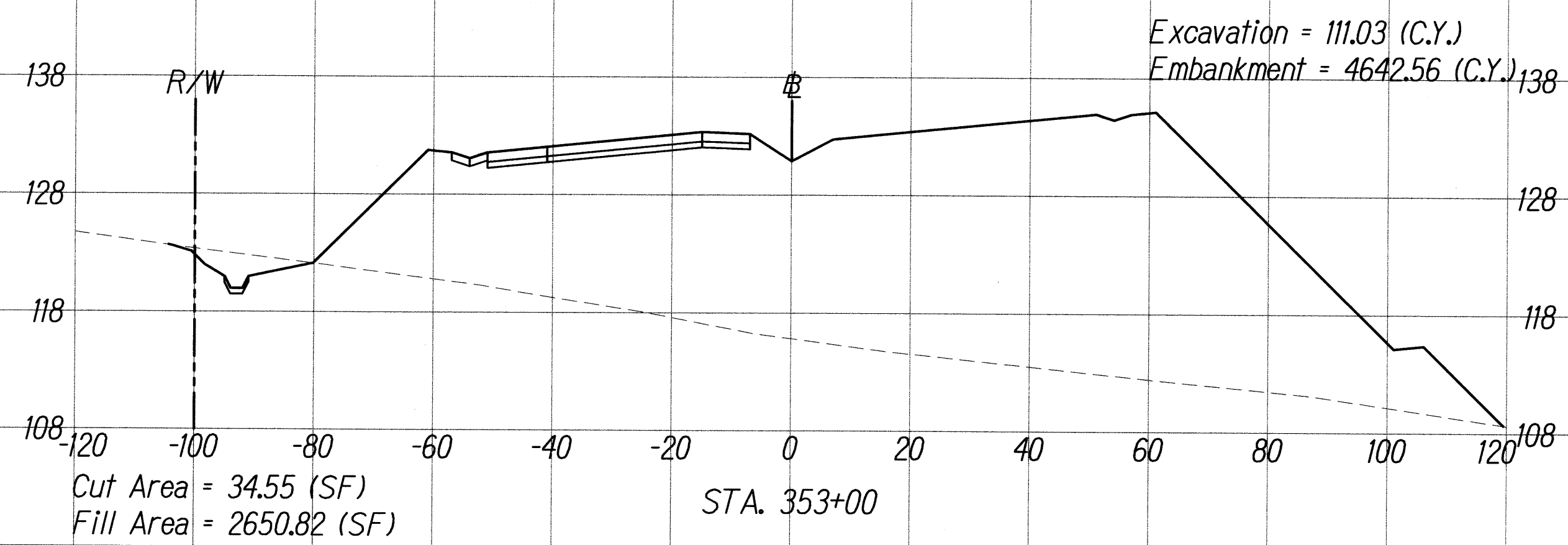
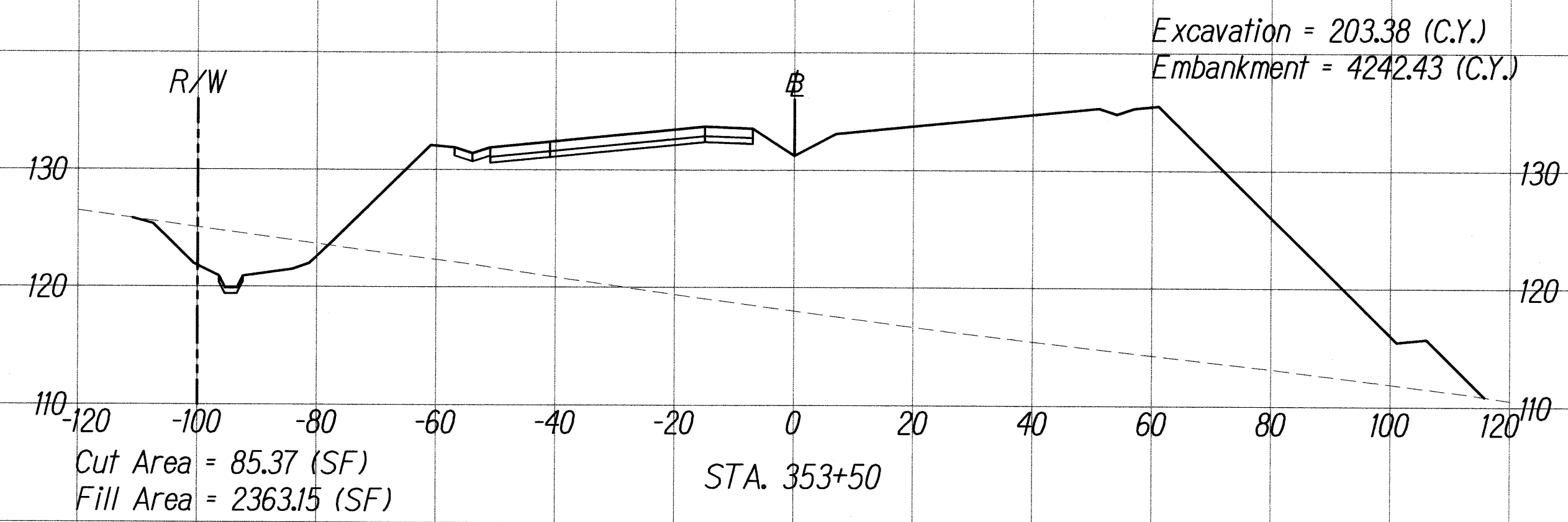
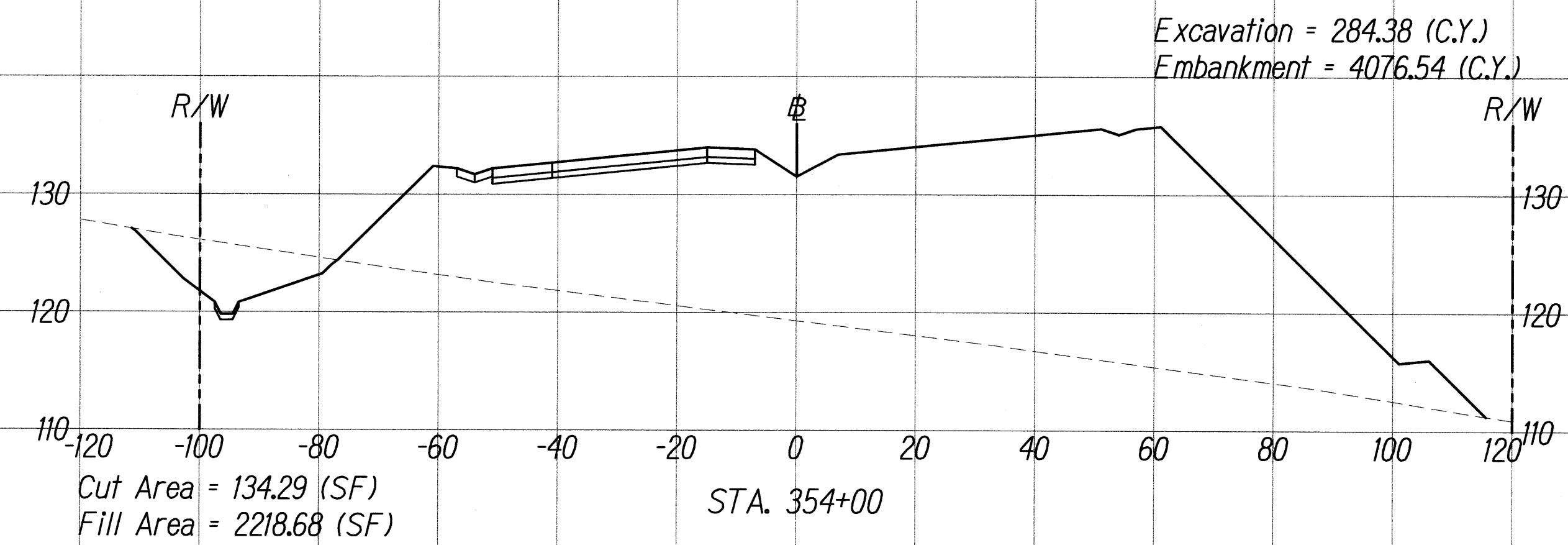
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-K(38)	2010	195	213



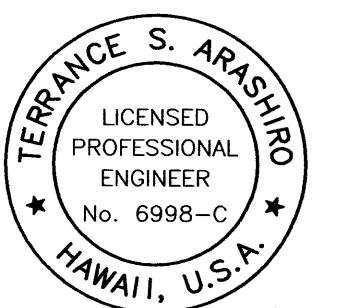
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1138	2010	196	213



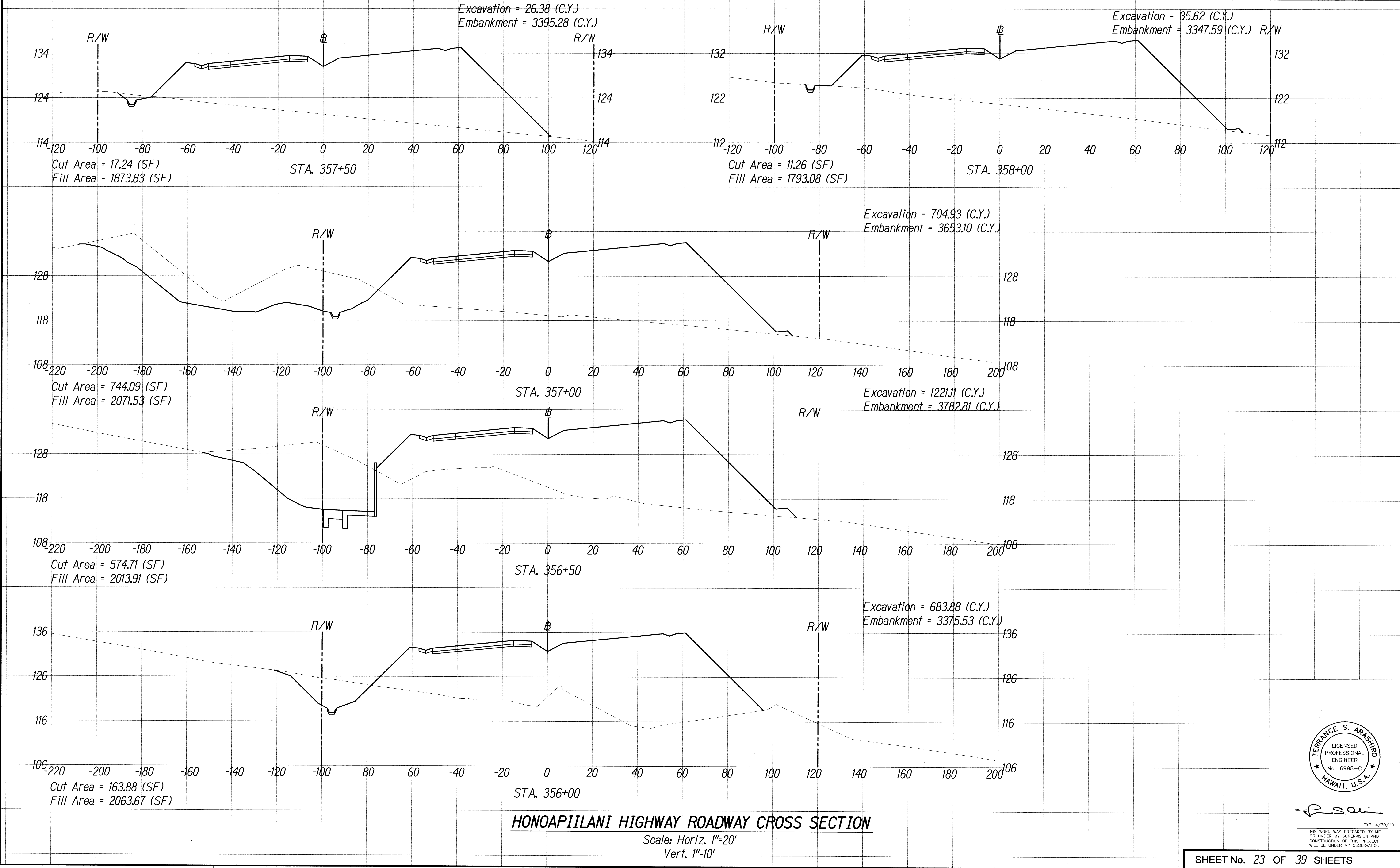
HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

Scale: Horiz. 1"=20'
Vert. 1"=10'



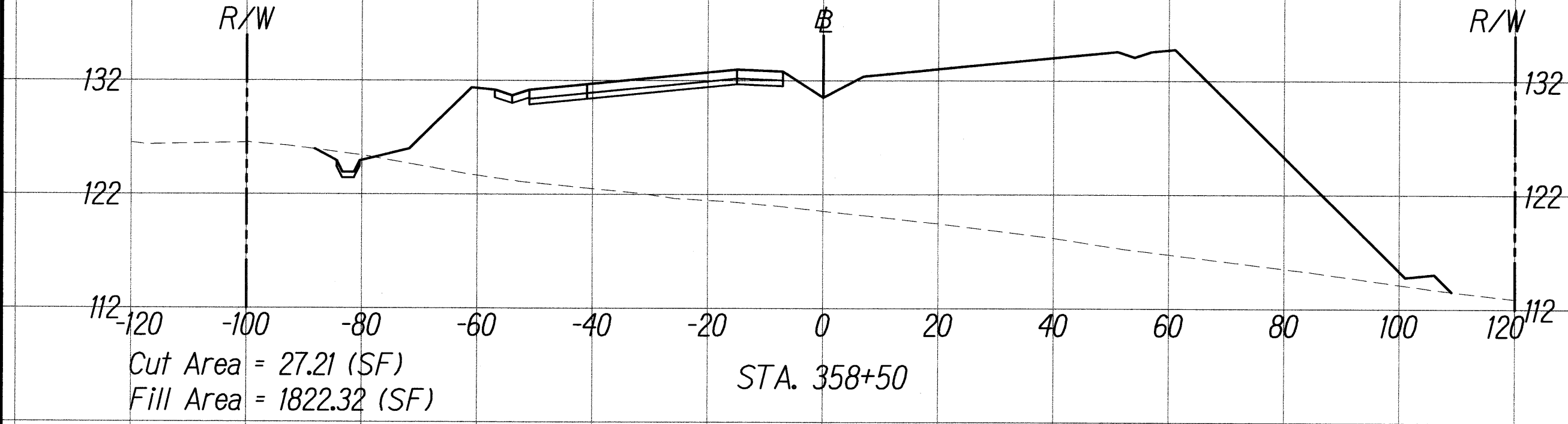
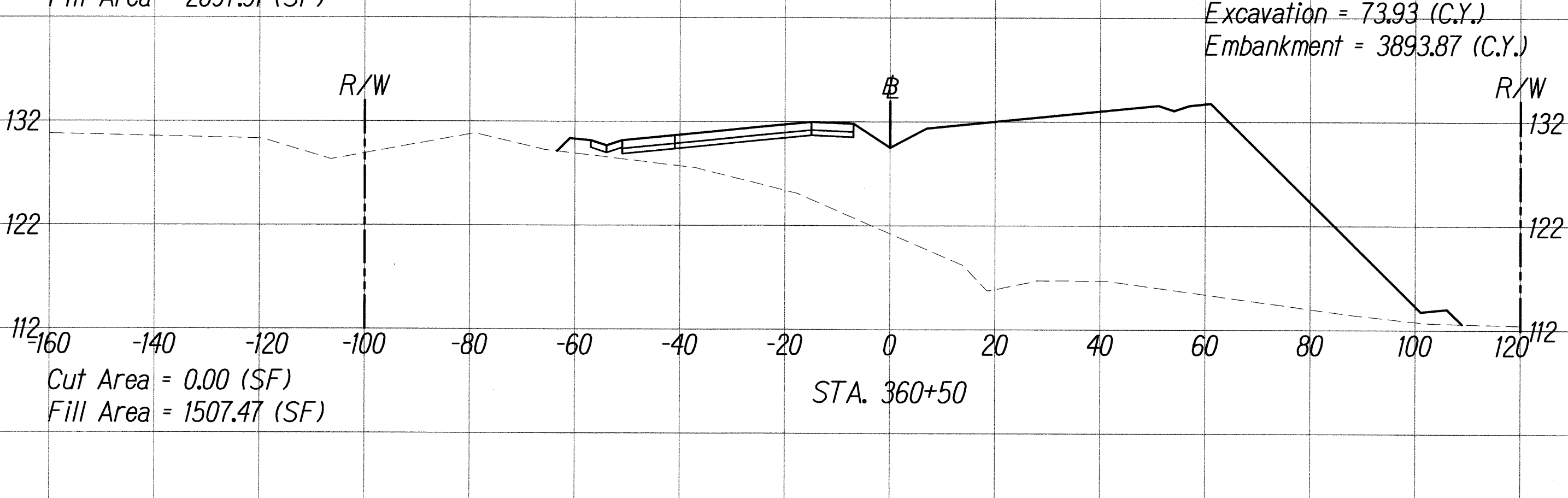
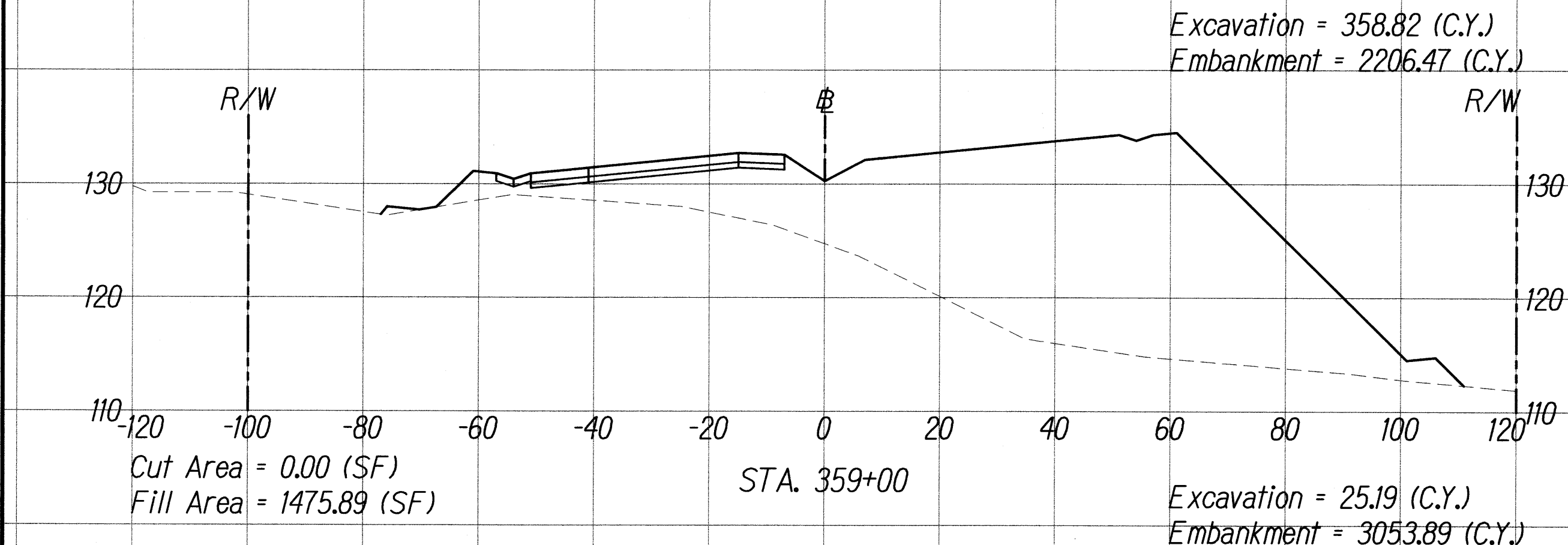
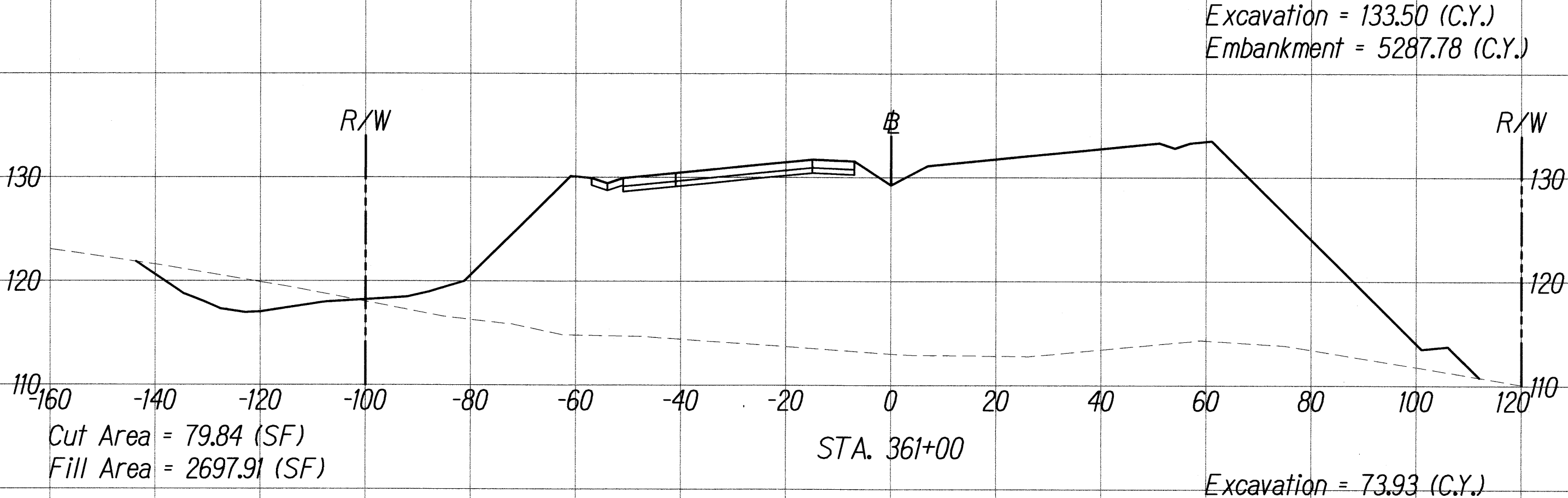
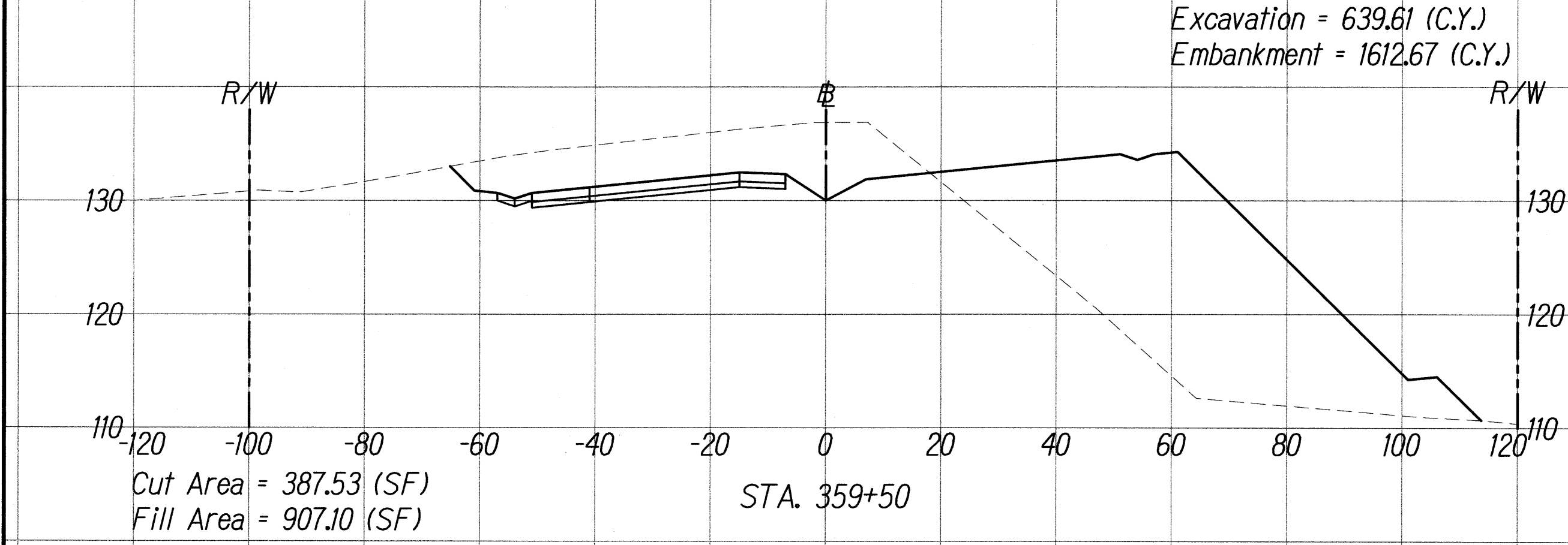
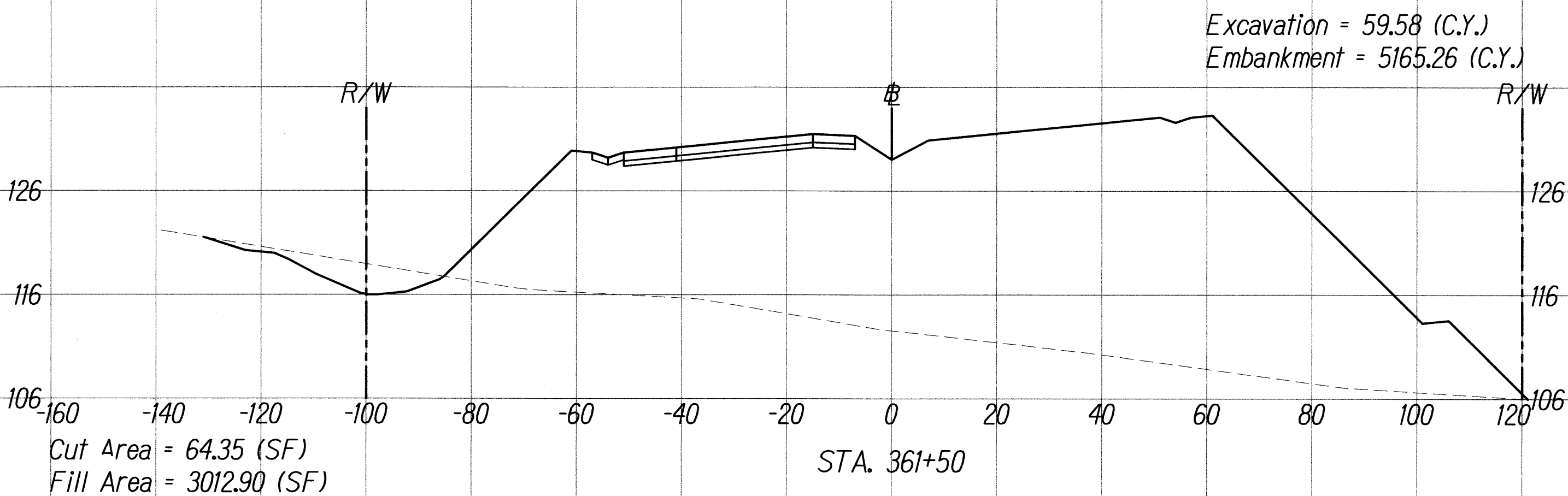
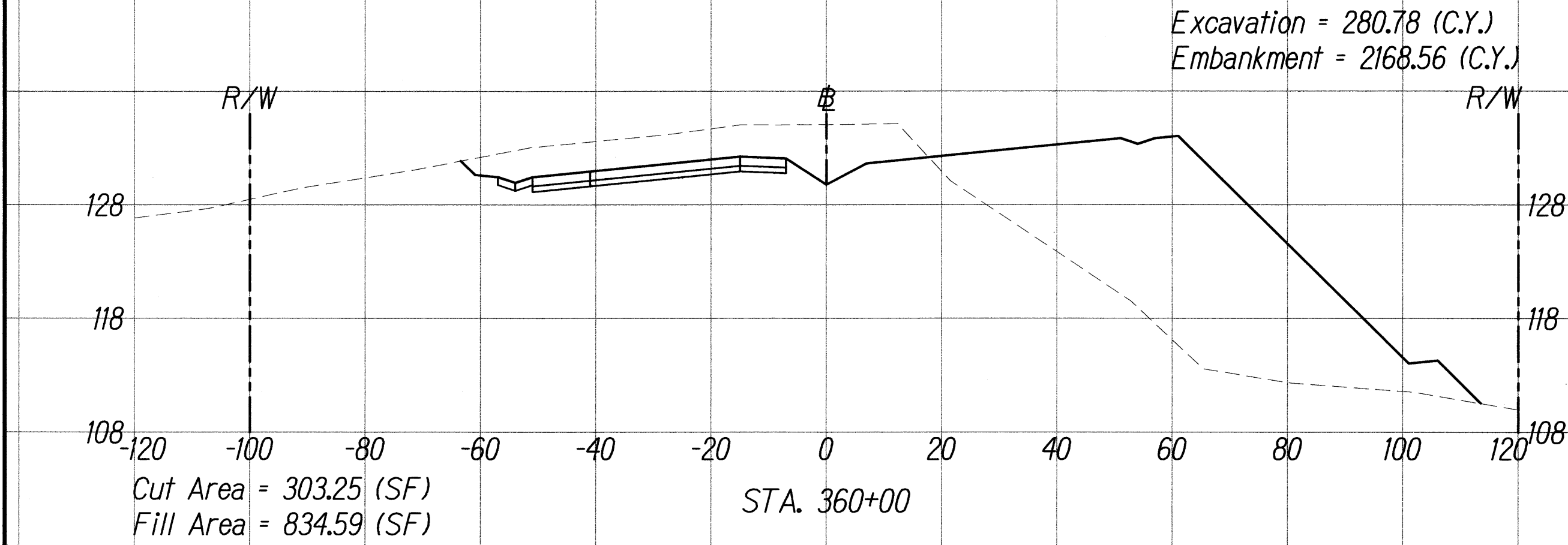
EXP. 4/30/10
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	197	213



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	198	213



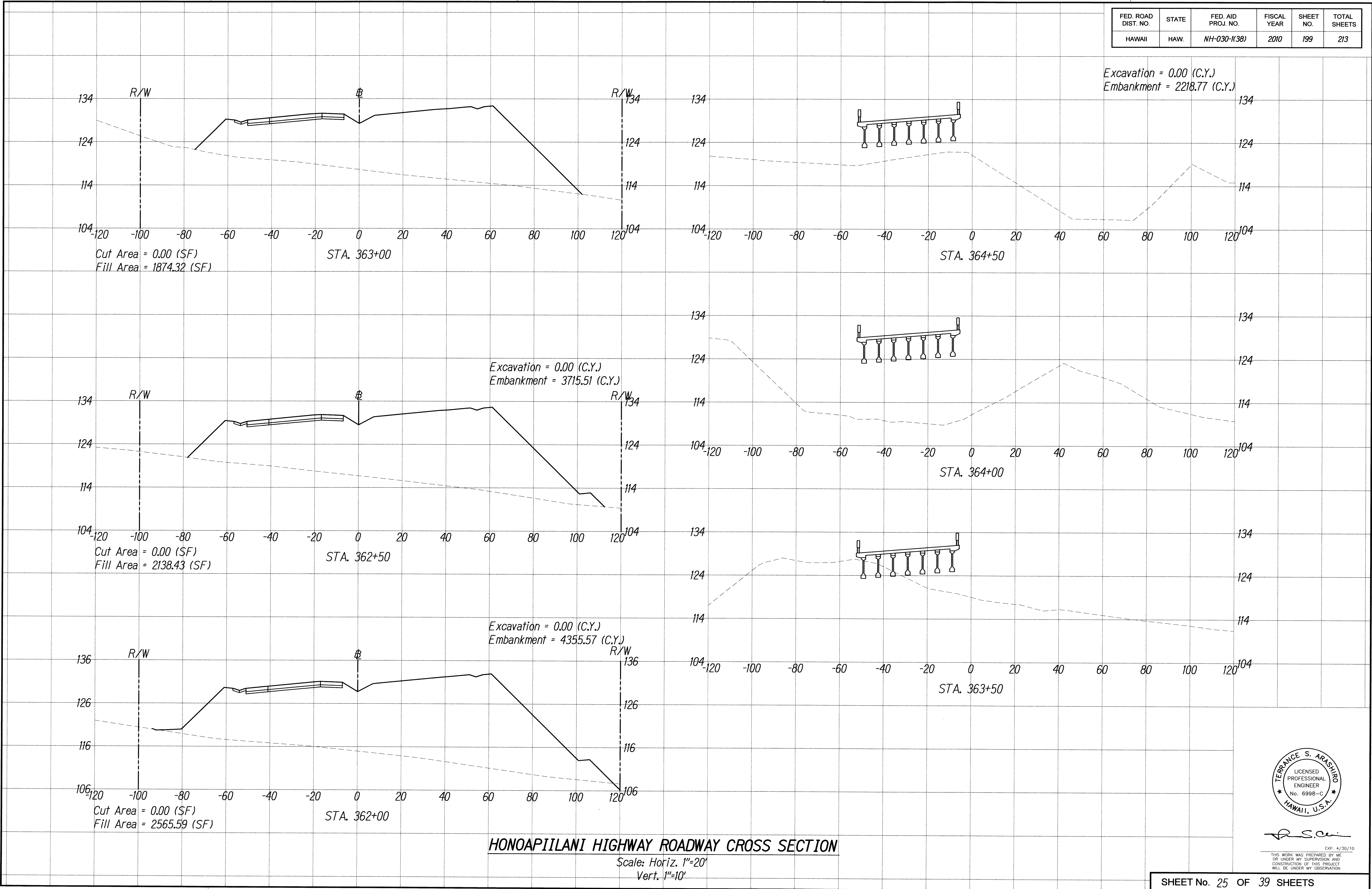
HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

Scale: Horiz. 1"=20'
Vert. 1"=10'



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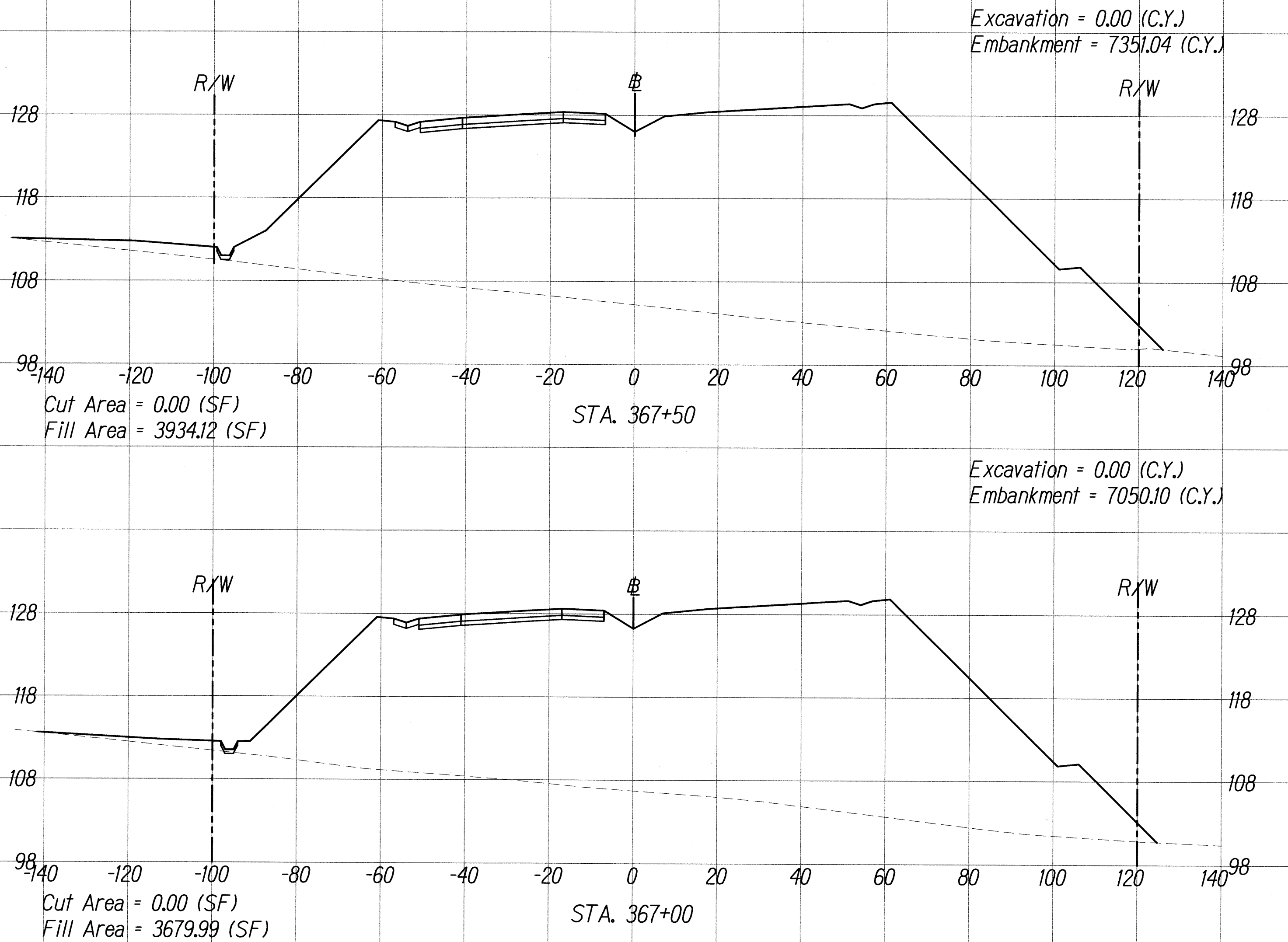
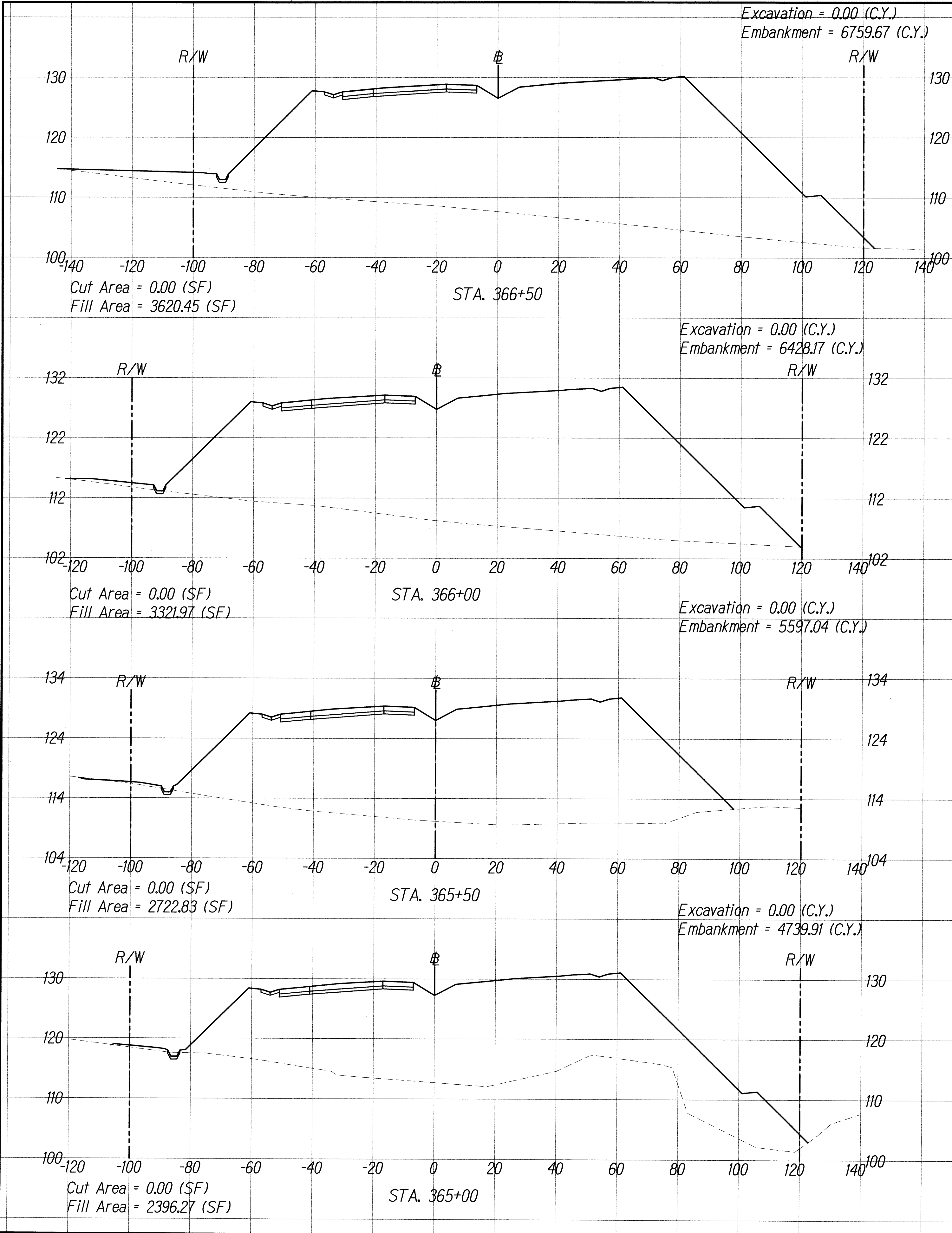
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	199	213



T.S.A.

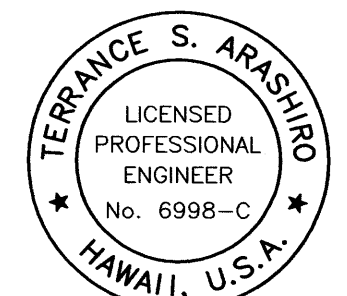
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	200	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

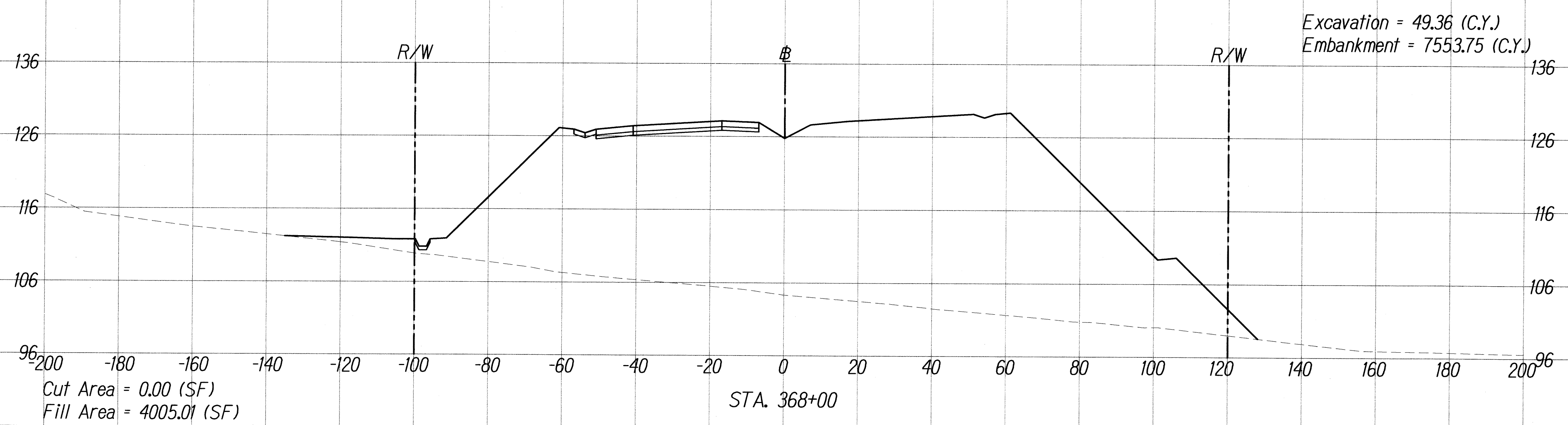
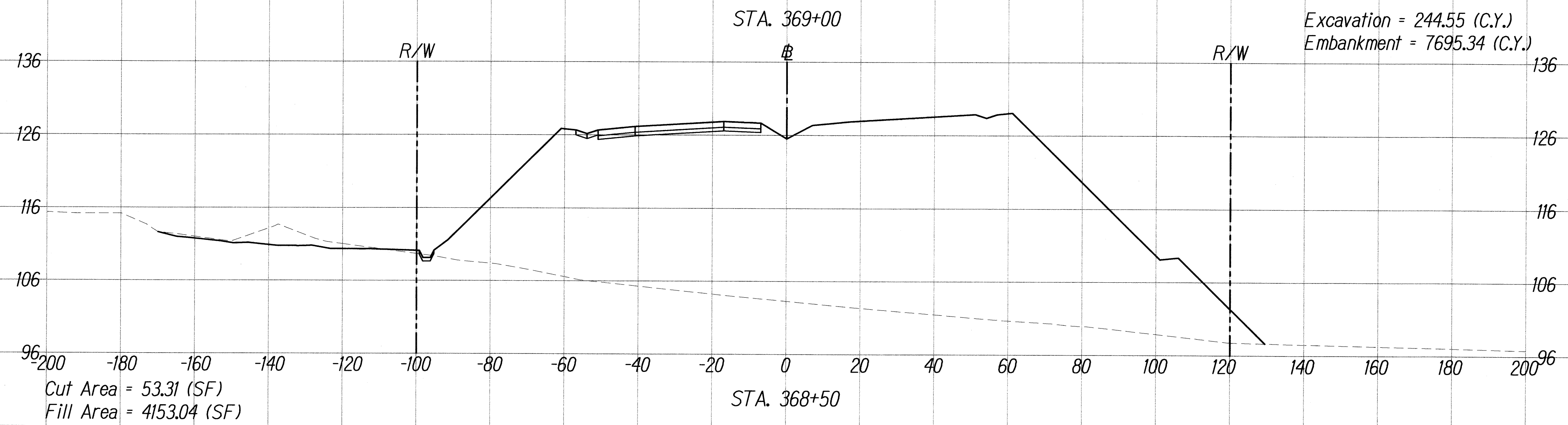
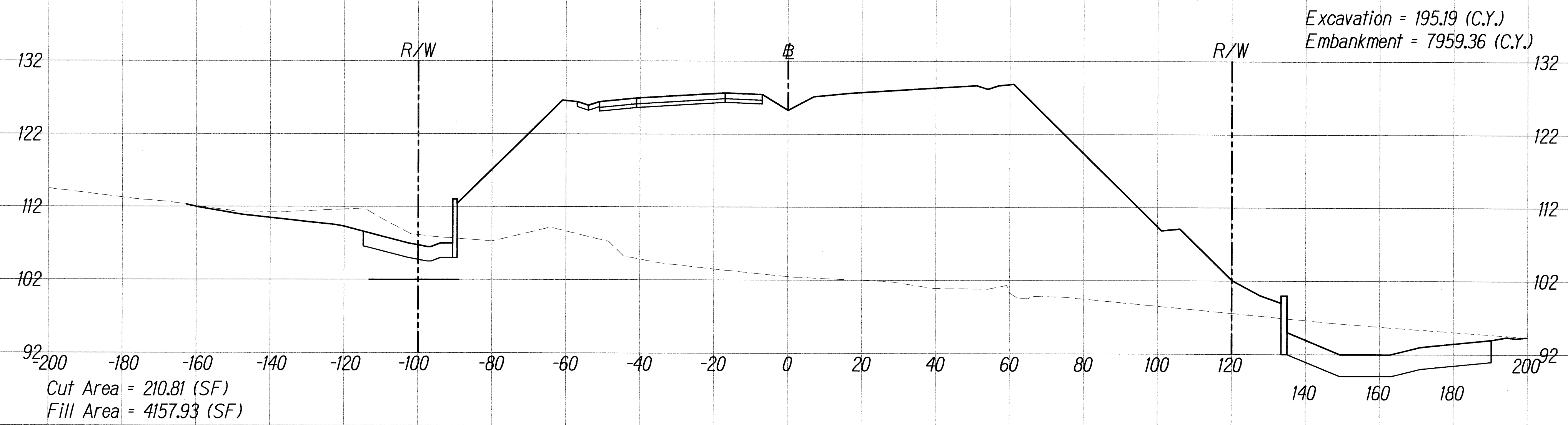
Scale: Horiz. 1"=20'
Vert. 1"=10'



T. Arashiro

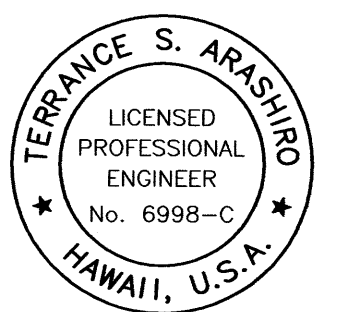
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	201	213



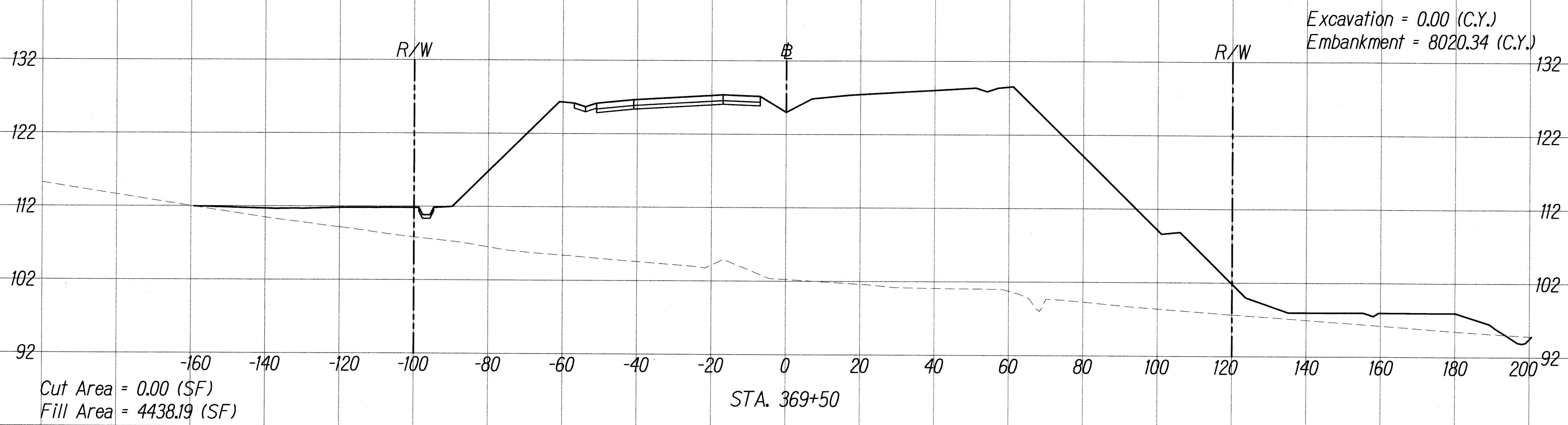
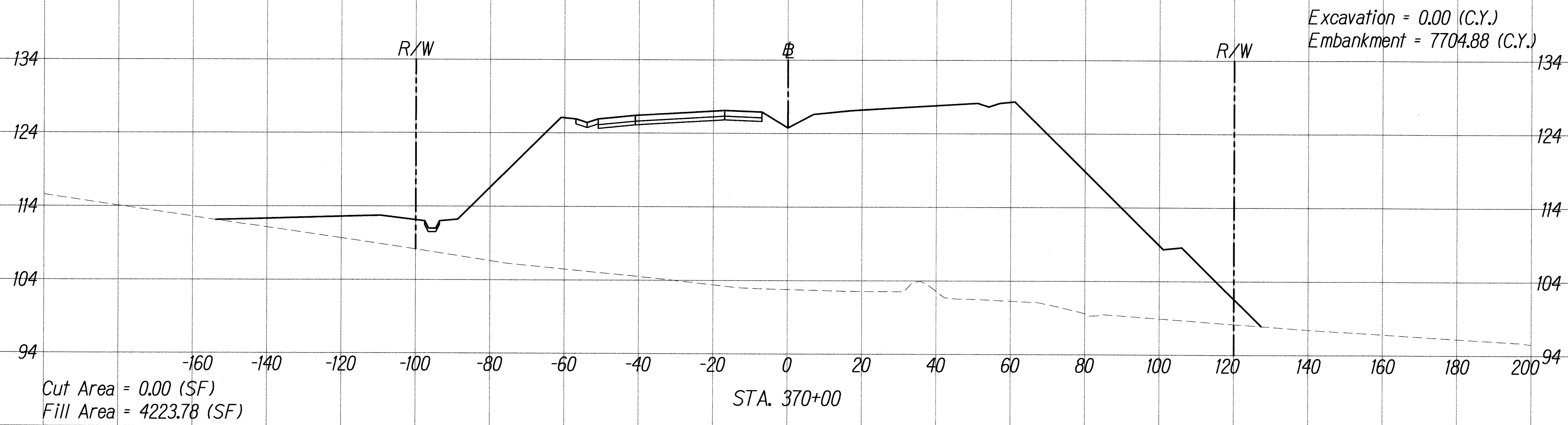
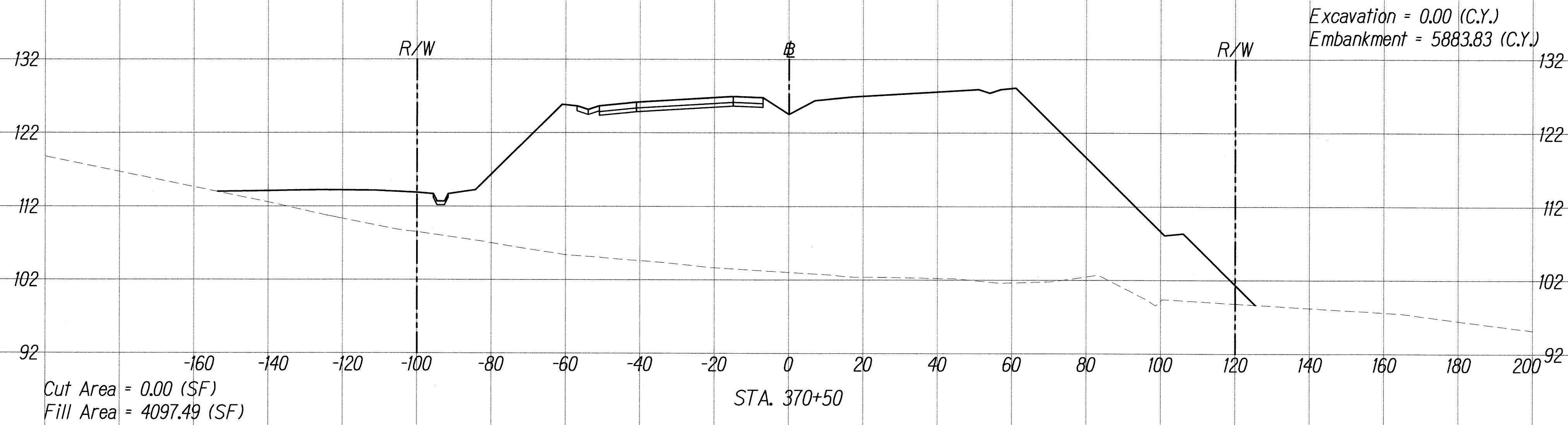
HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

Scale: Horiz. 1"=20'
Vert. 1"=10'



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	202	213



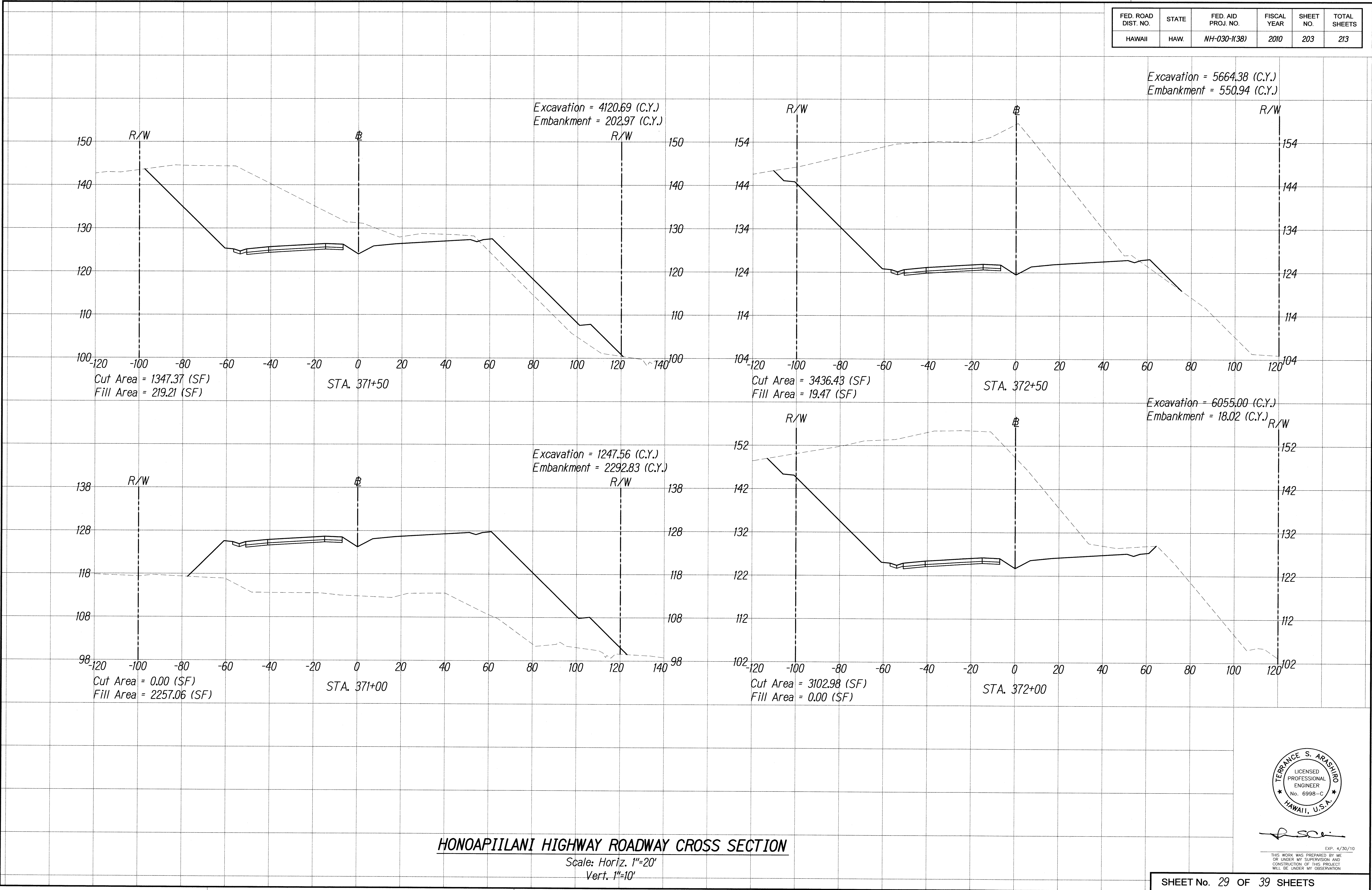
HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

Scale: Horiz. 1"=20'
Vert. 1"=10'

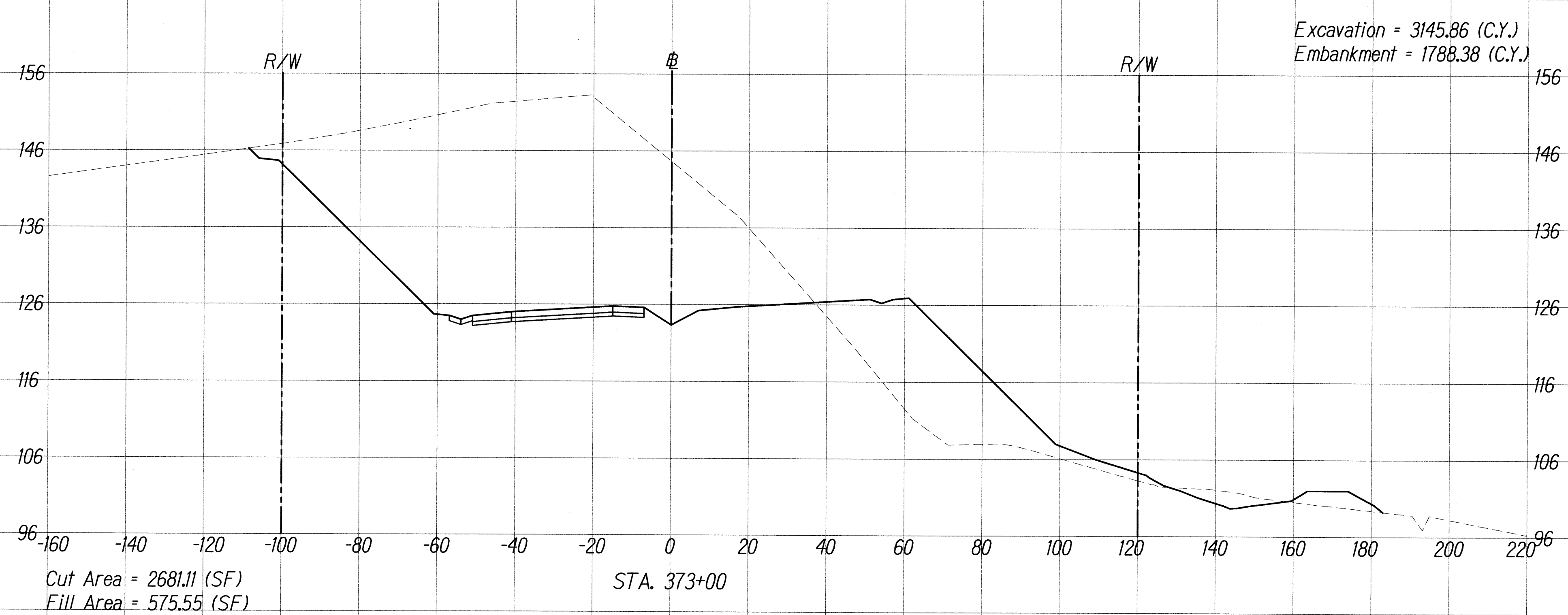
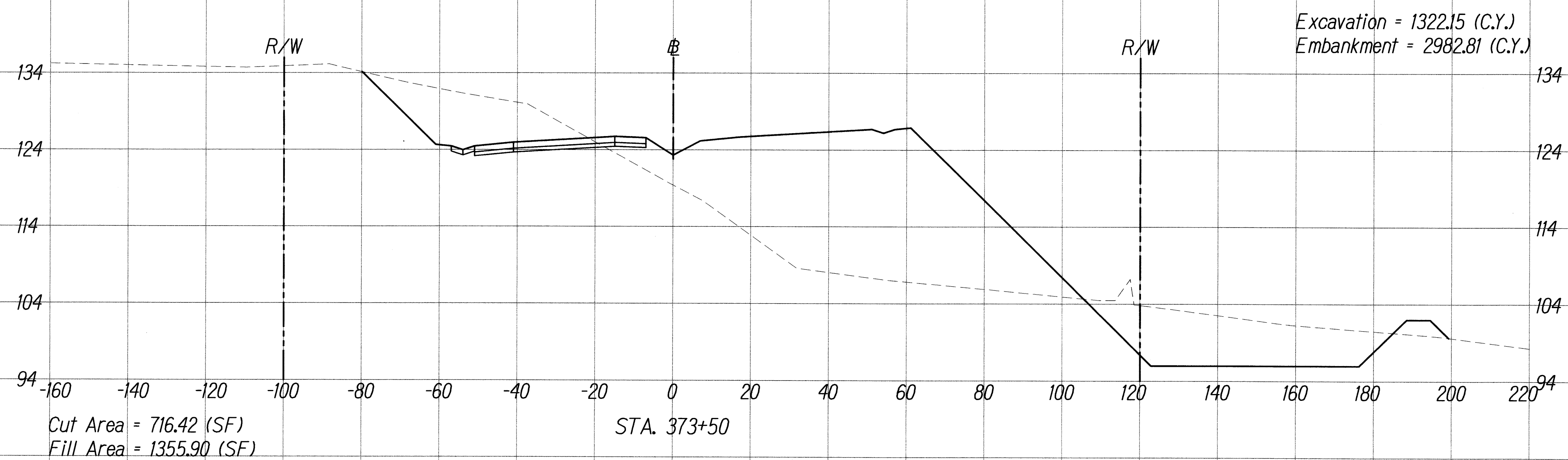
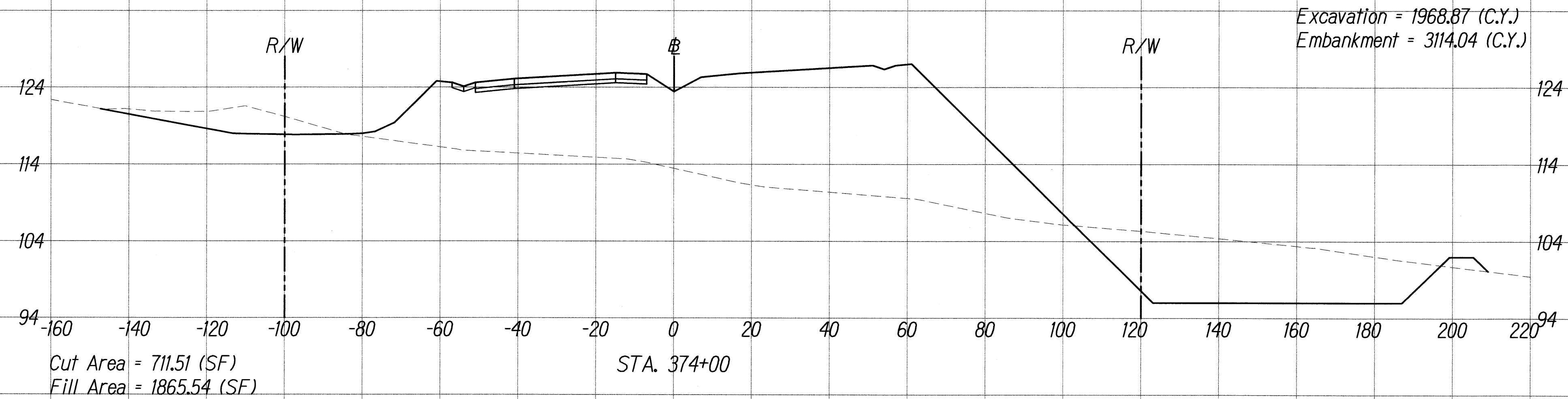


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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	203	213

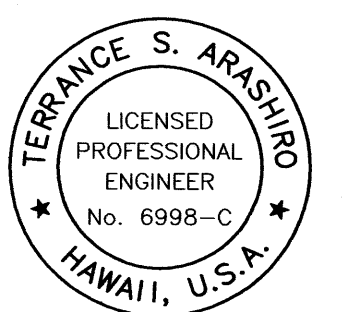


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-K(38)	2010	204	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

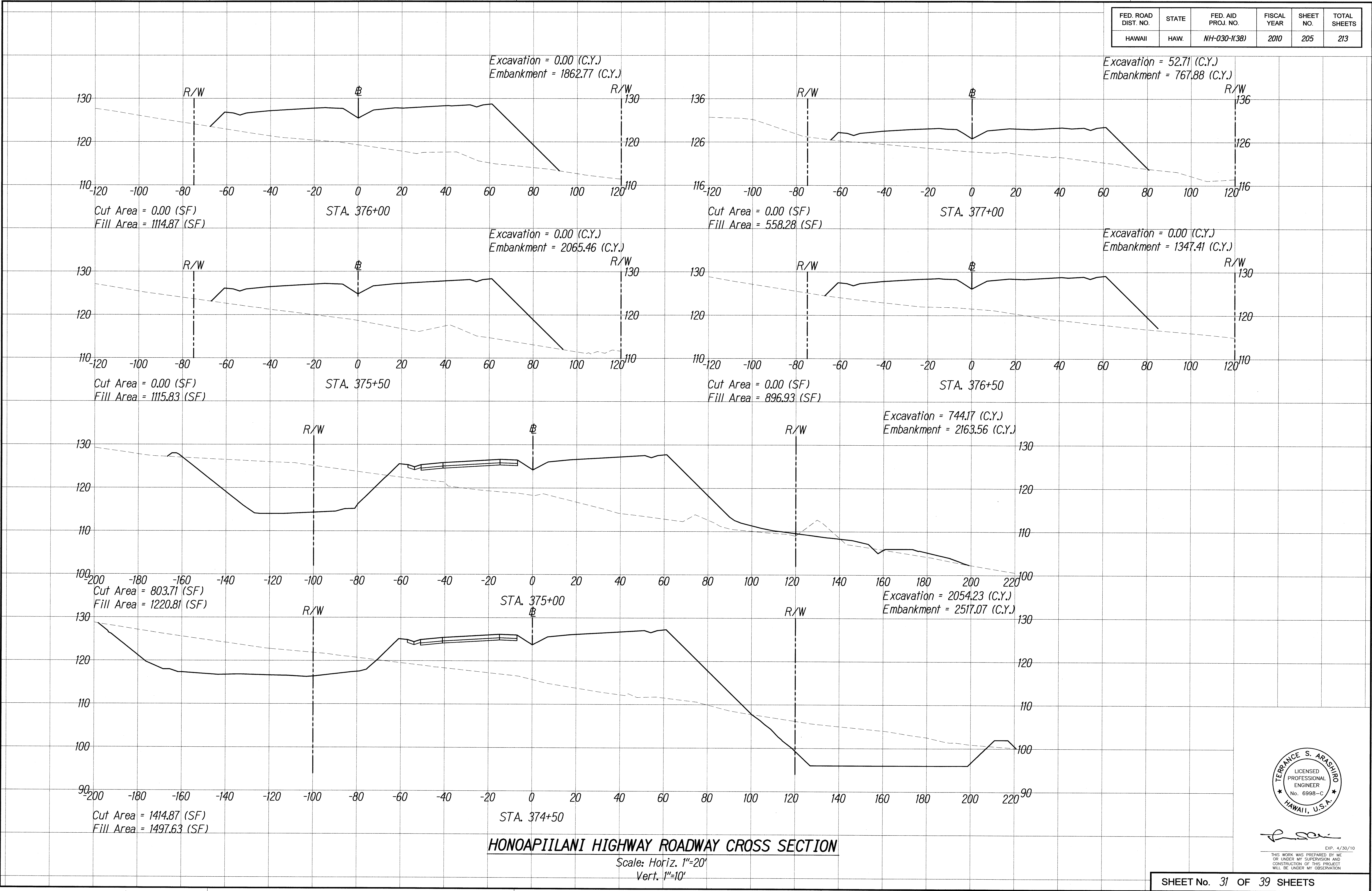
Scale: Horiz. 1"=20'
Vert. 1"=10'



T. S. Arashiro

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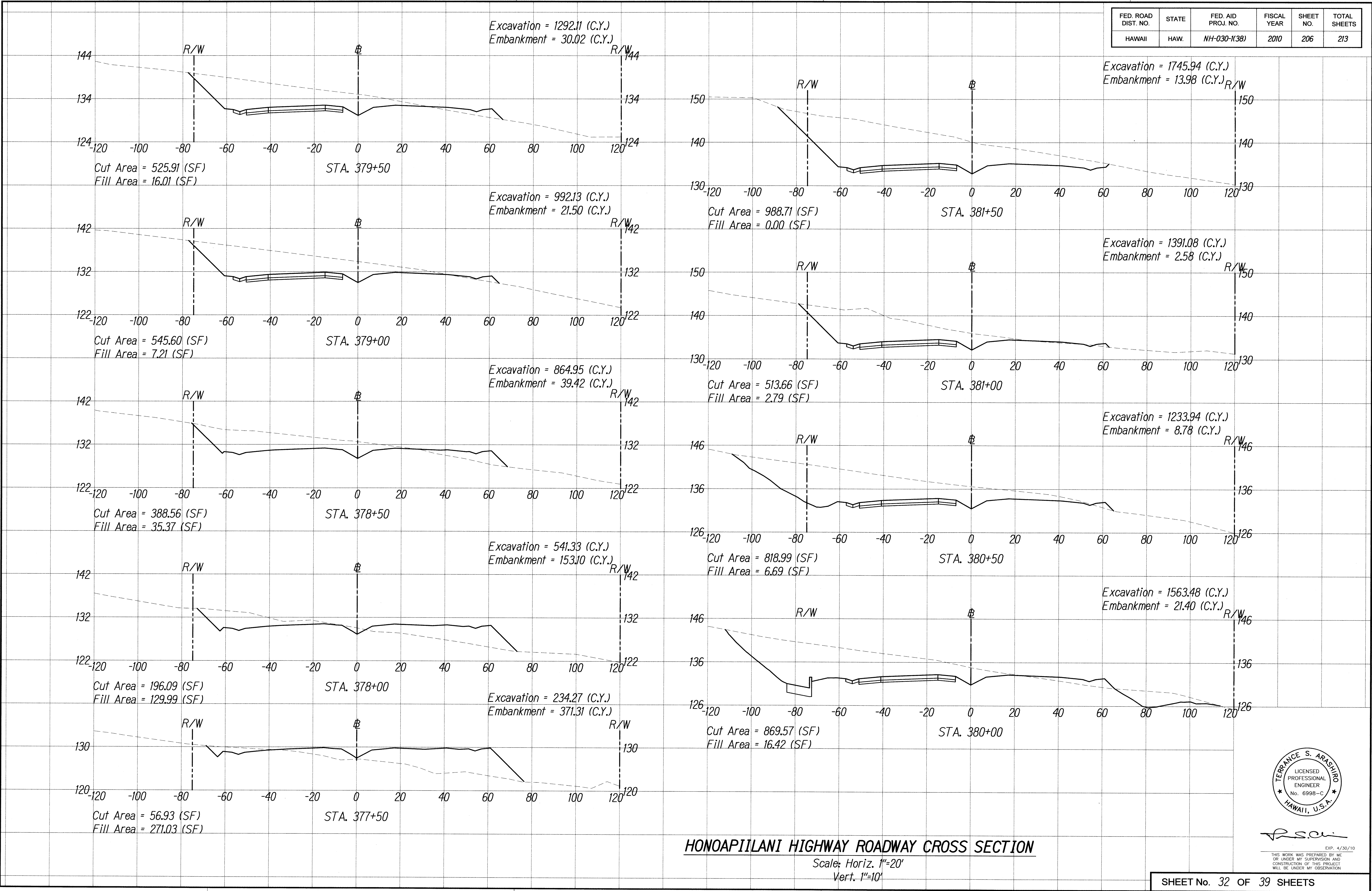
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-K(38)	2010	205	213



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	206	213



HONOAPIILANI HIGHWAY ROADWAY CROSS SECTION

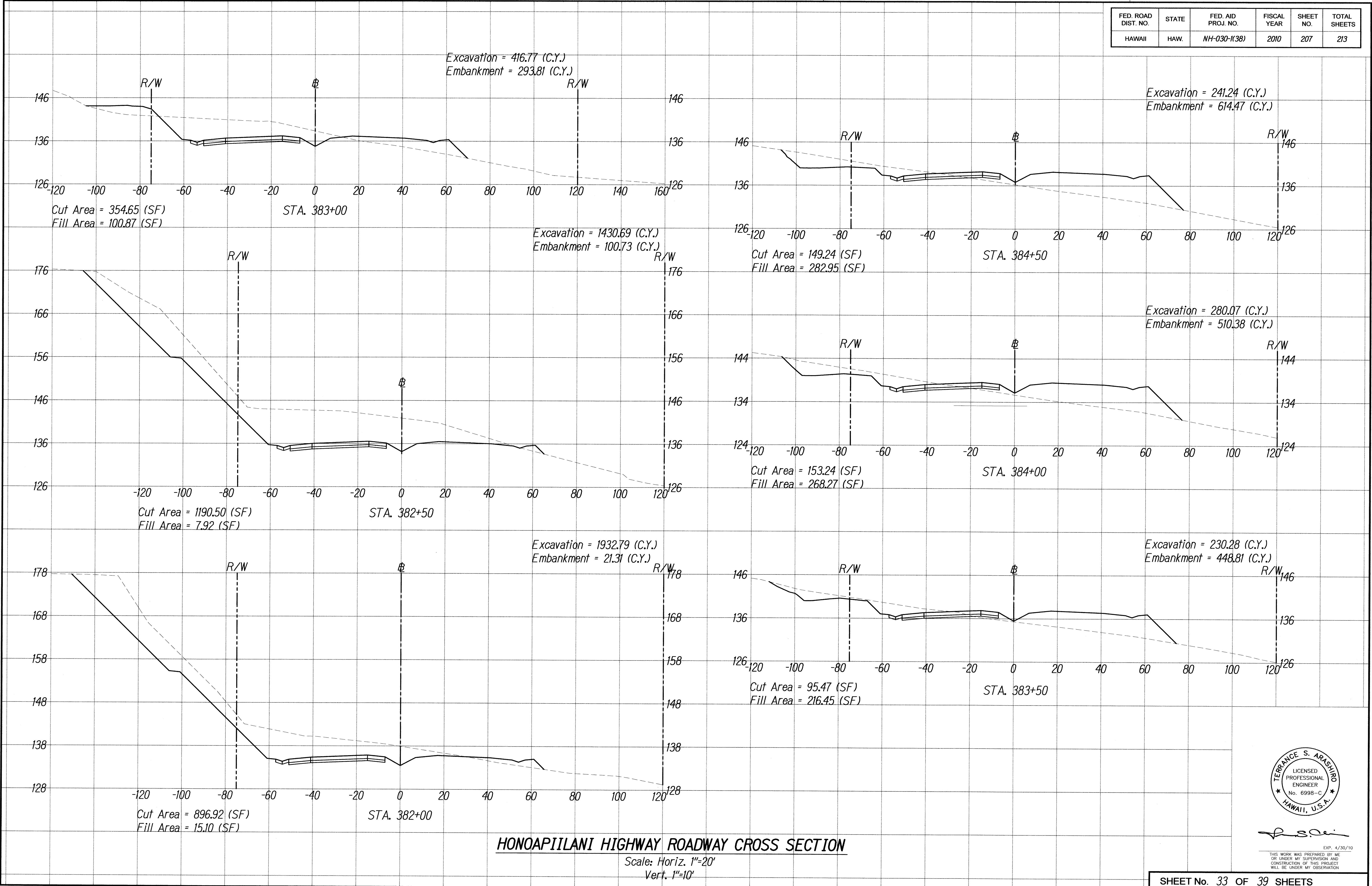
Scale: Horiz. 1"=20'
 Vert. 1"=10'



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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	207	213



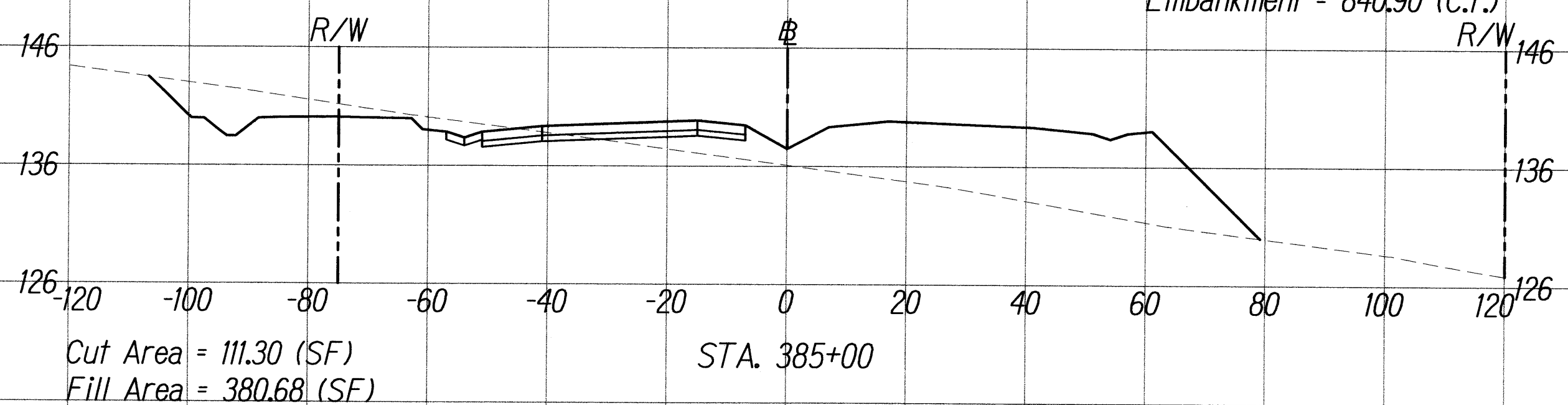
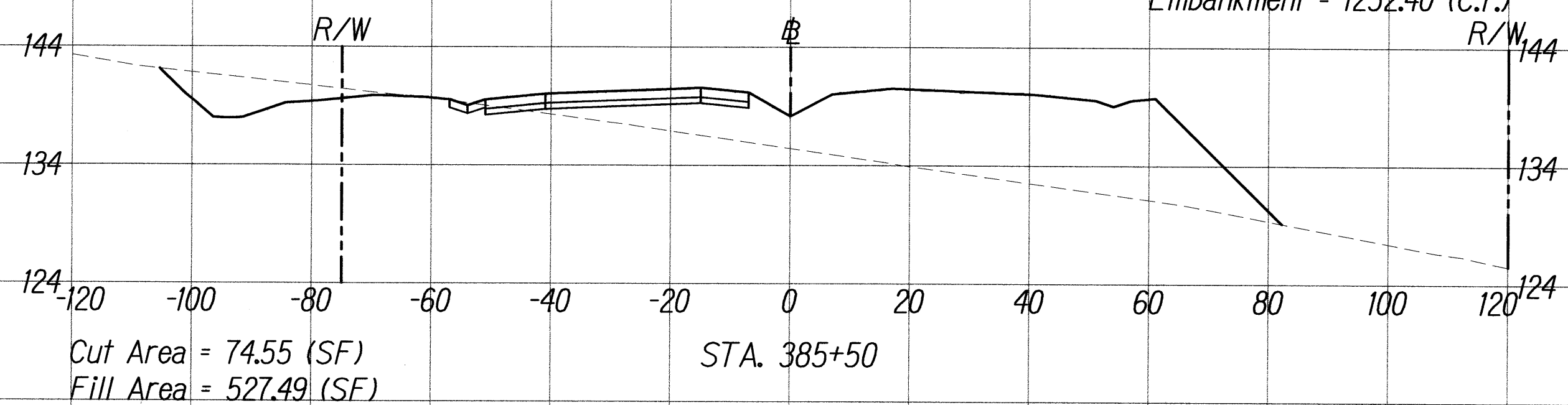
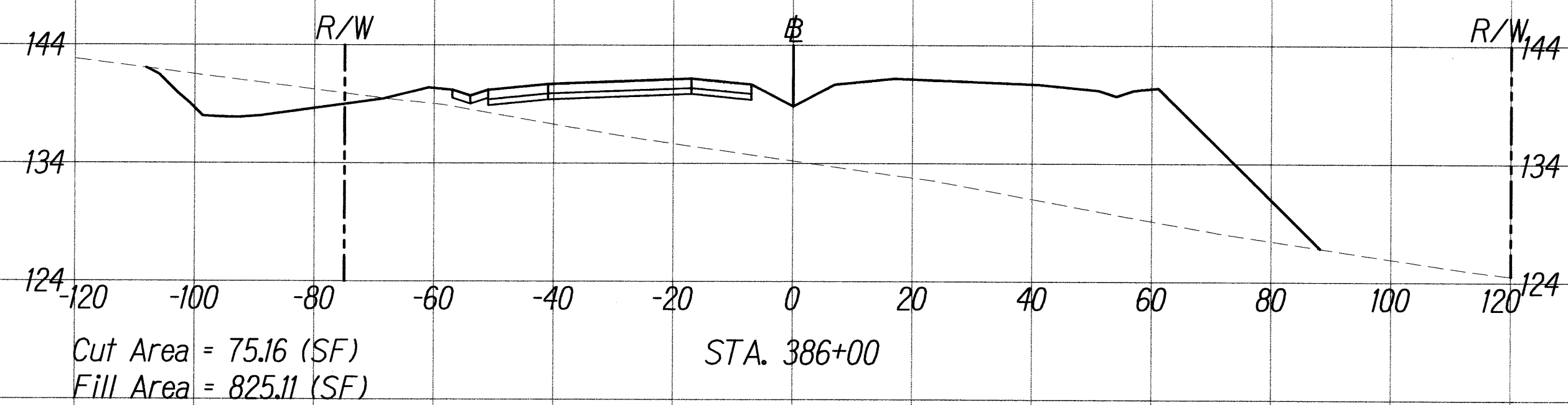
TERENCE S. ARASHIRO
LICENSED PROFESSIONAL ENGINEER
No. 6998-C
HAWAII, U.S.A.

EXP. 4/30/10

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	208	213

Total Excavation = 374,860 (C.Y.)
Total Embankment = 331,291 (C.Y.)



HONOPAPIILANI HIGHWAY ROADWAY CROSS SECTION

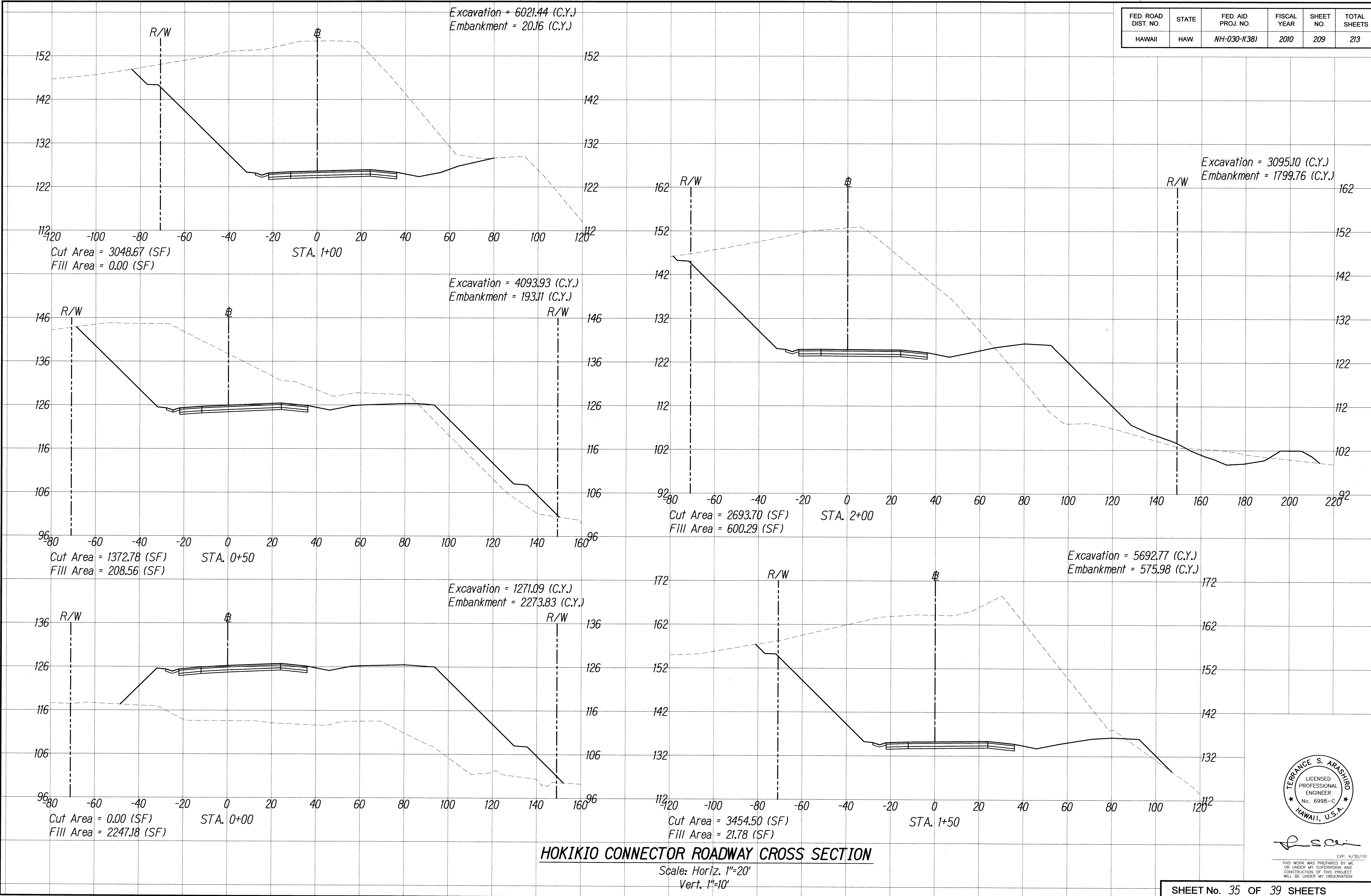
Scale: Horiz. 1"=20'
Vert. 1"=10'



T.S.A.

EXP. 4/30/10
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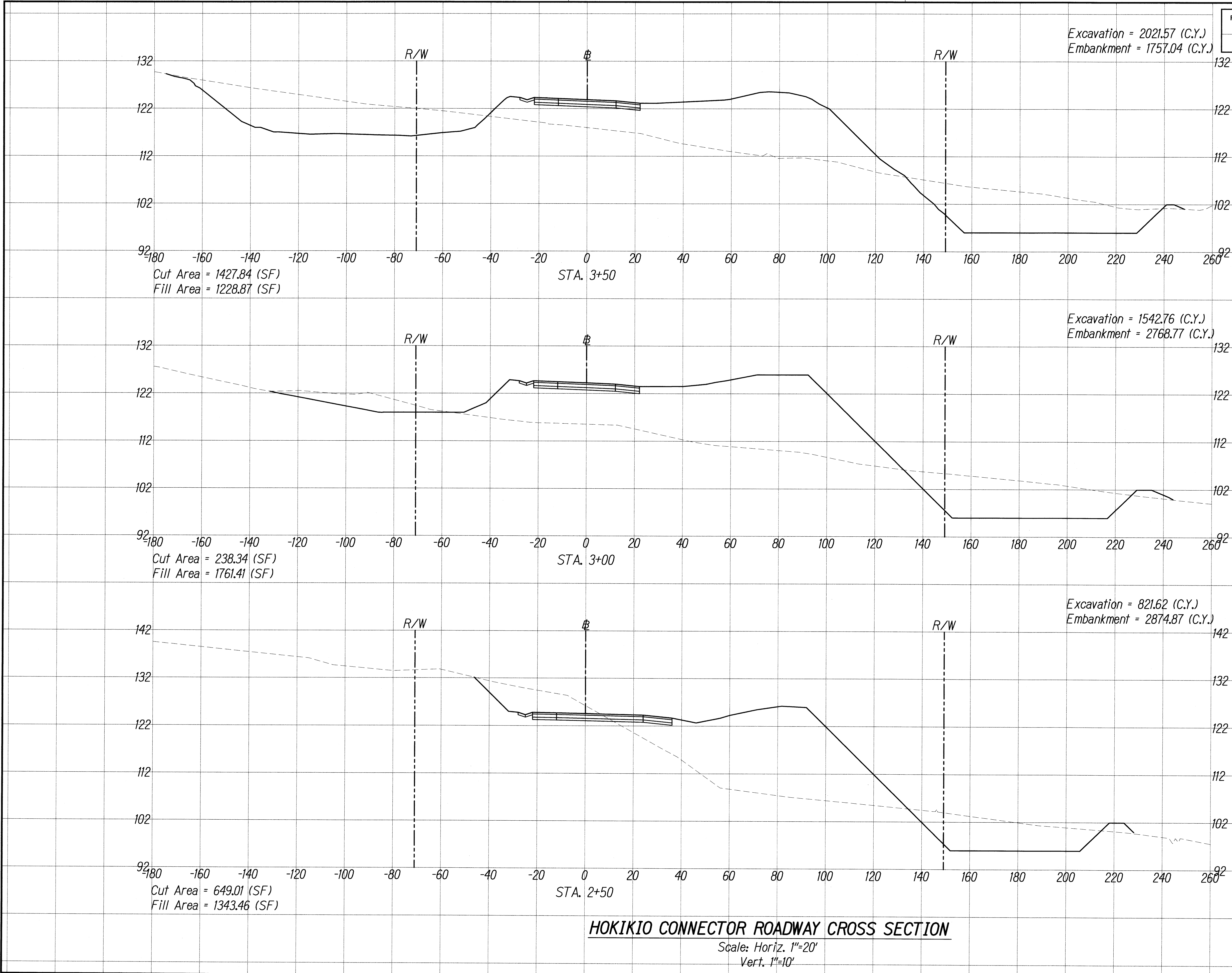
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	209	213



T.S. Arashiro

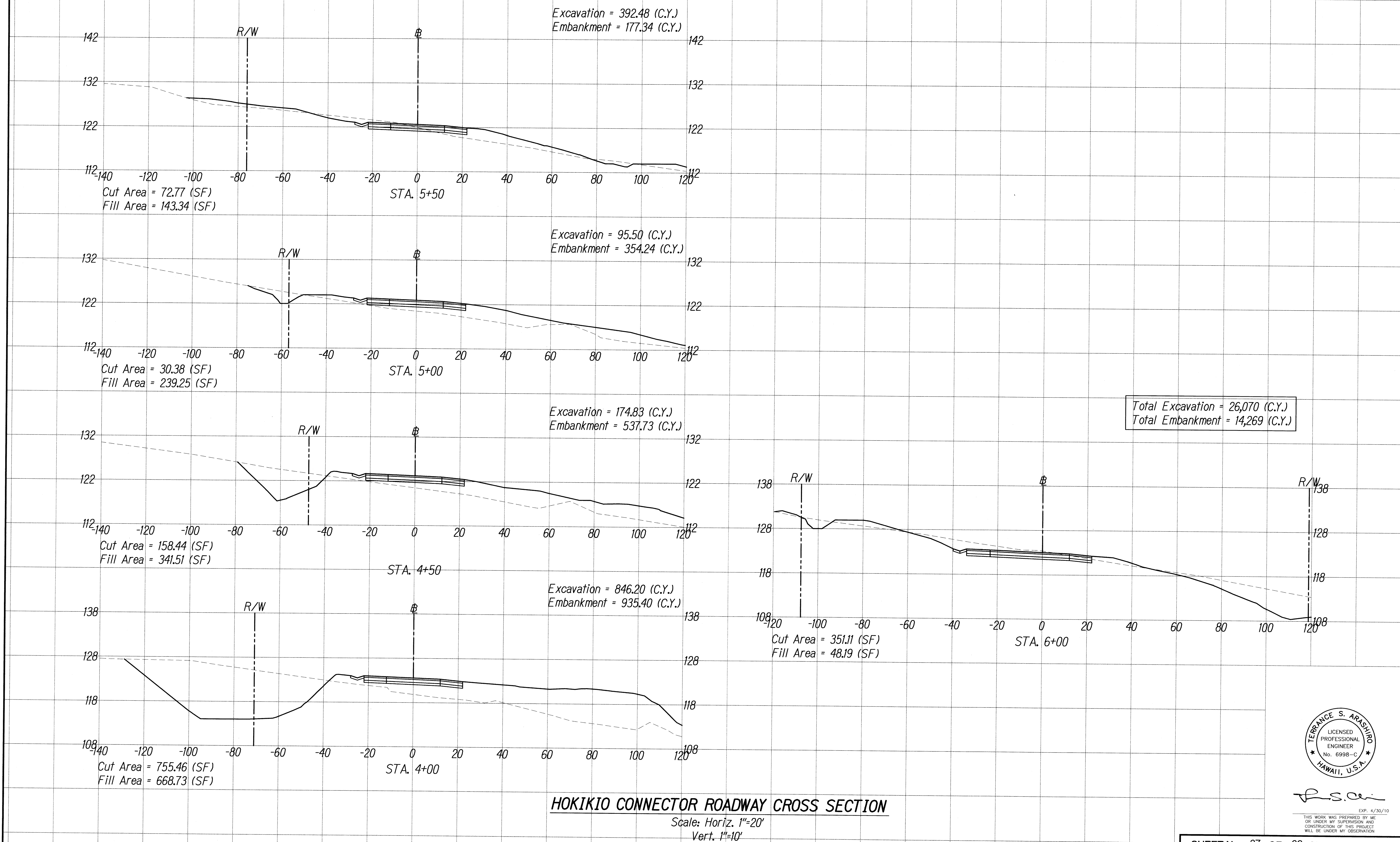
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	210	213



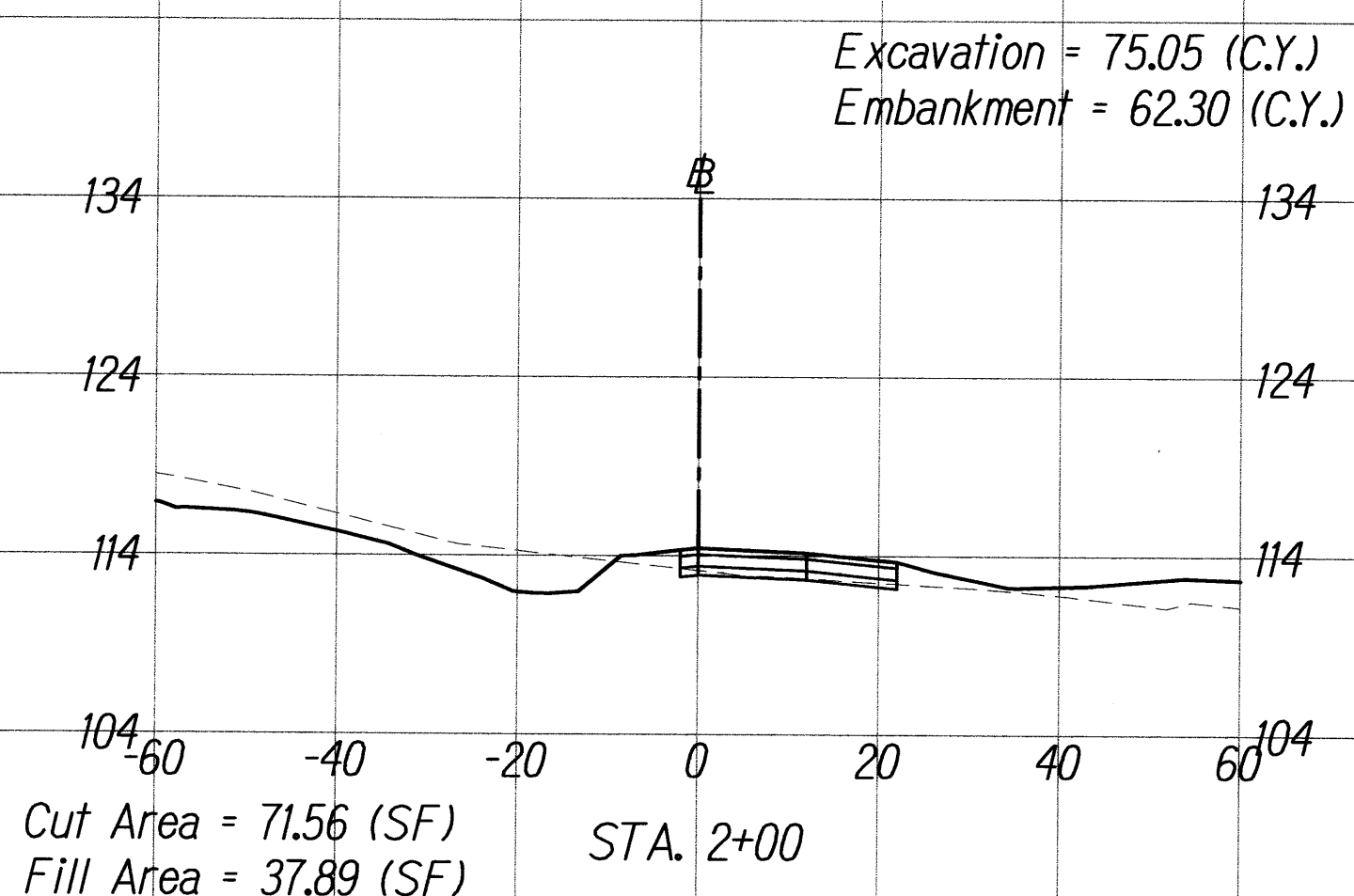
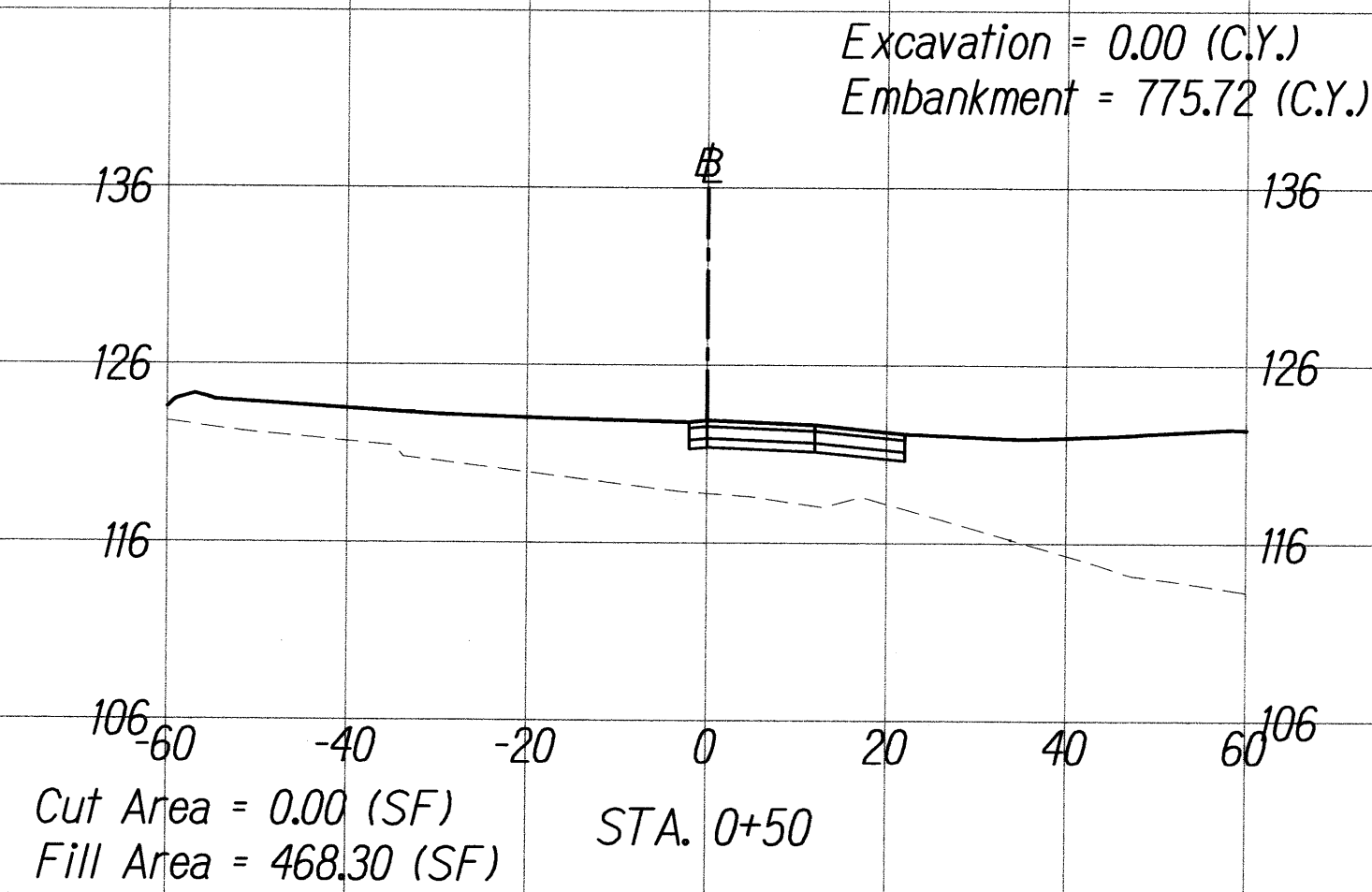
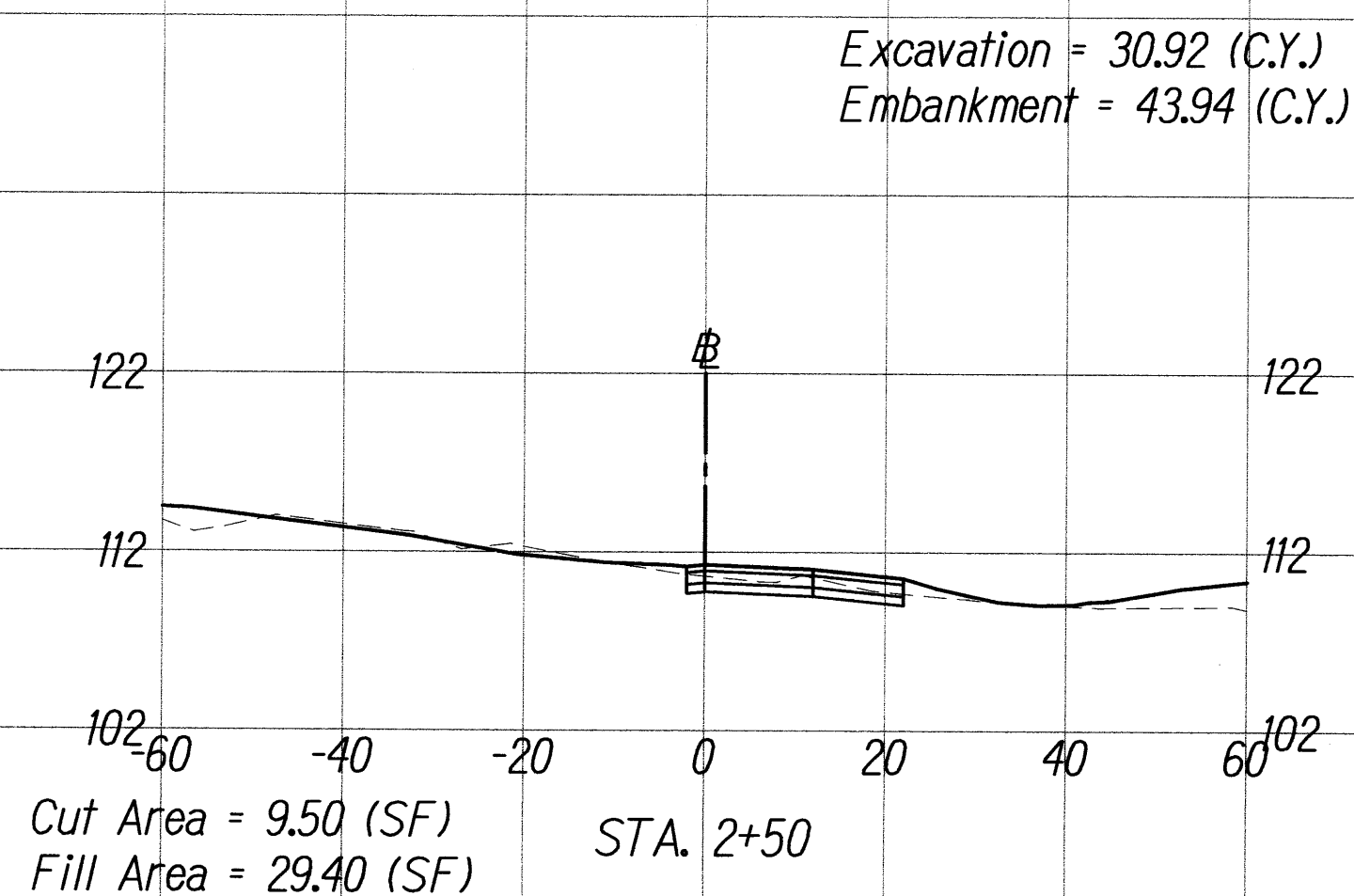
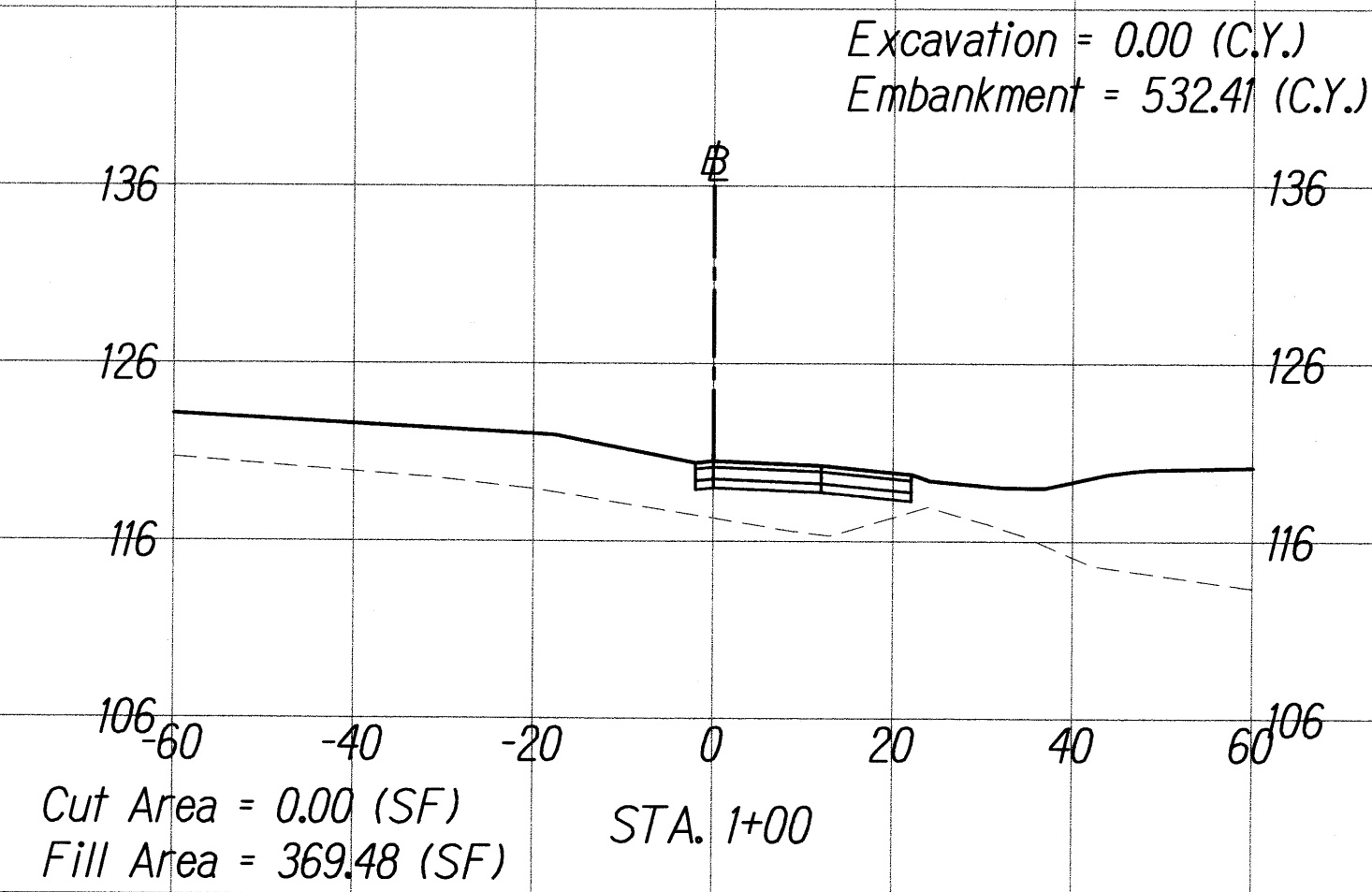
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	211	213

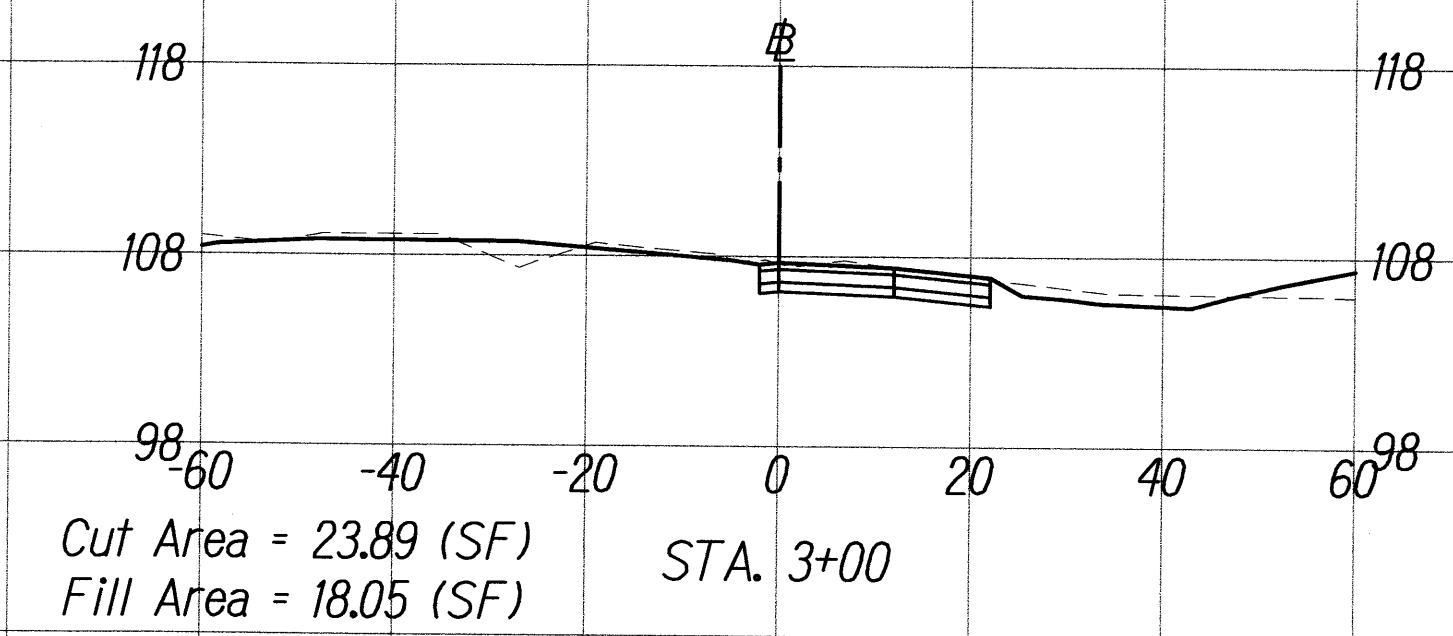
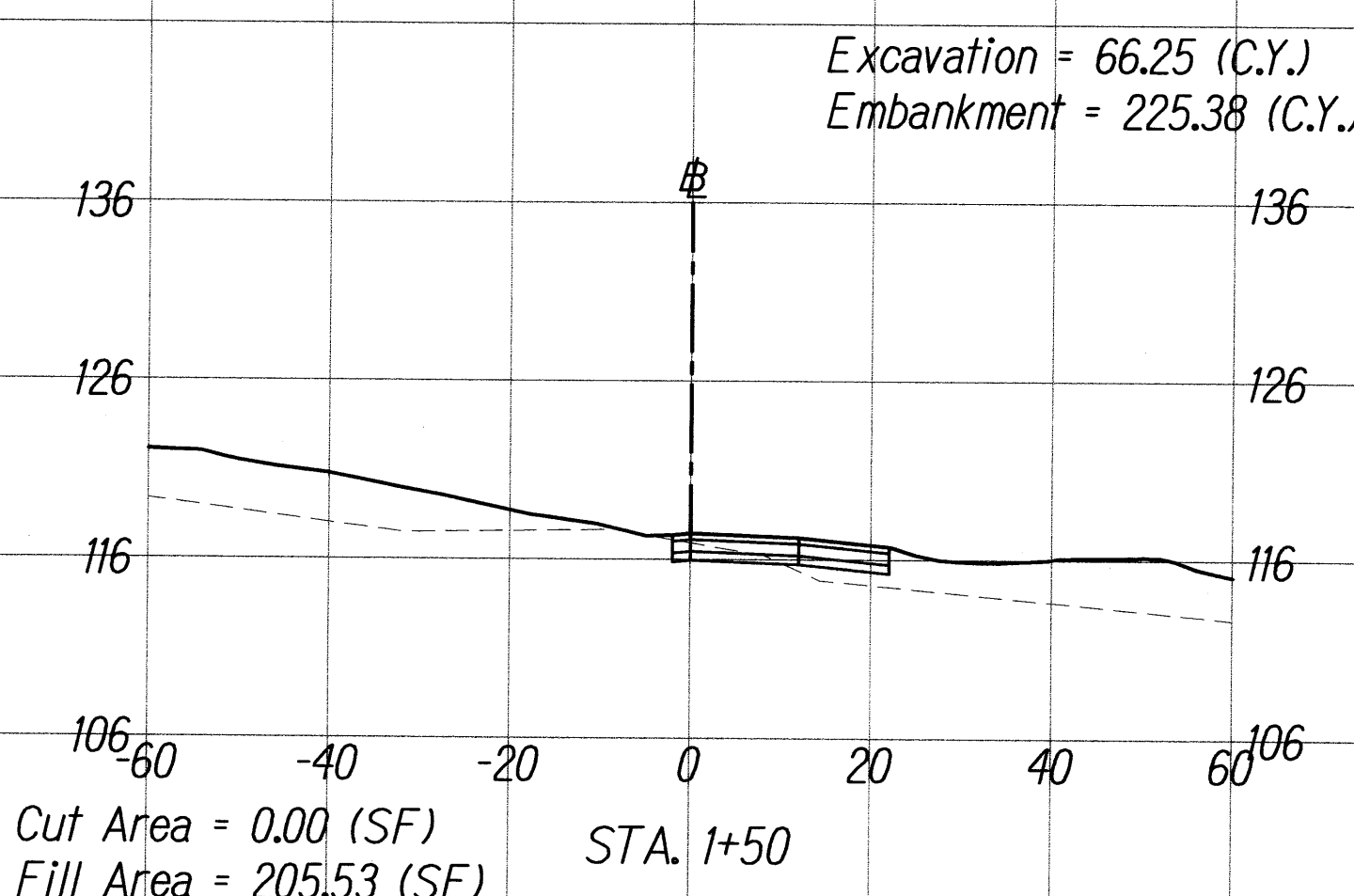
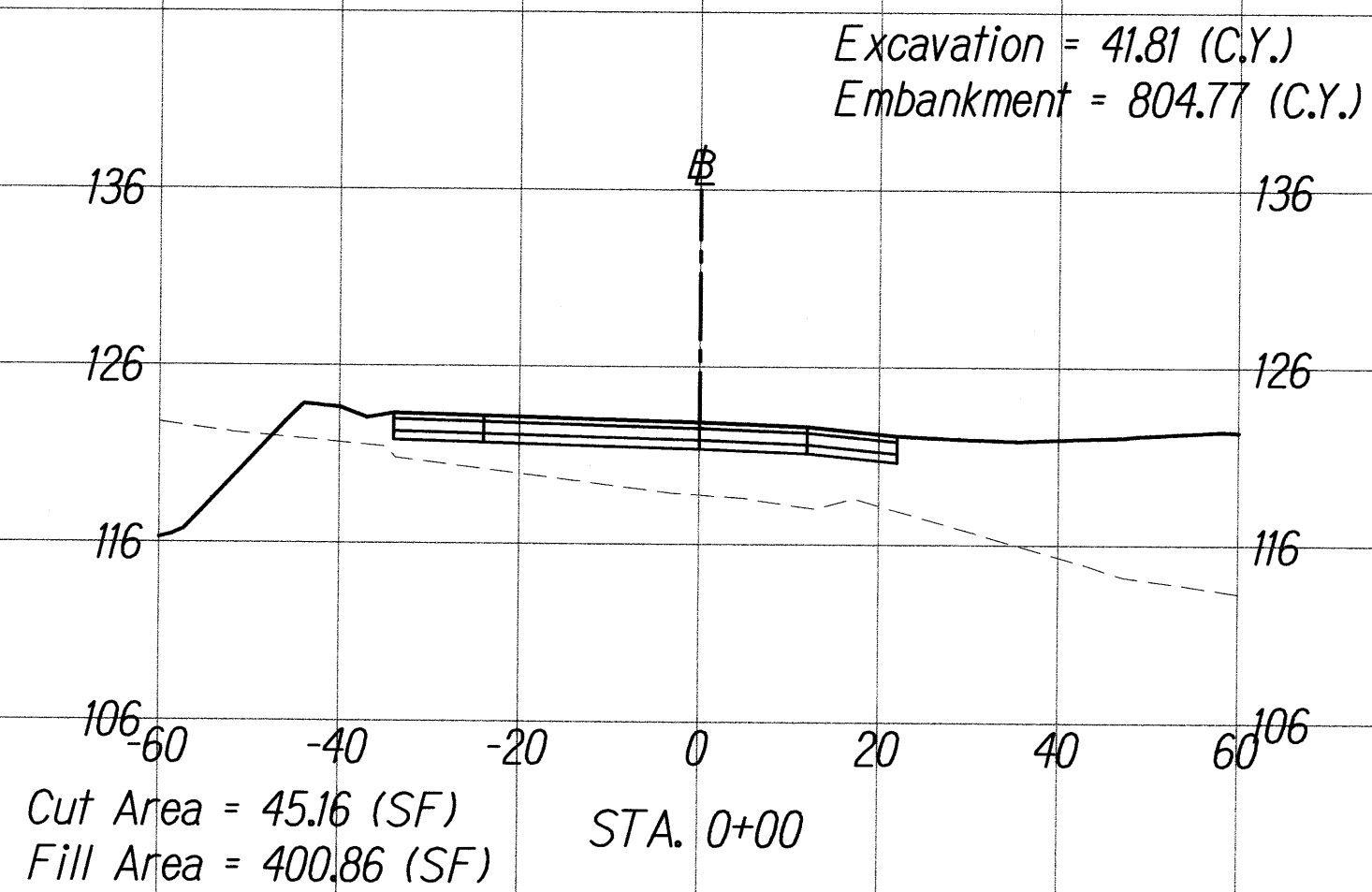


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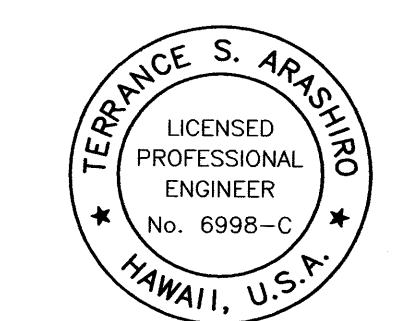
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1138	2010	212	213



Total Excavation = 214 (C.Y.)
Total Embankment = 2,445 (C.Y.)

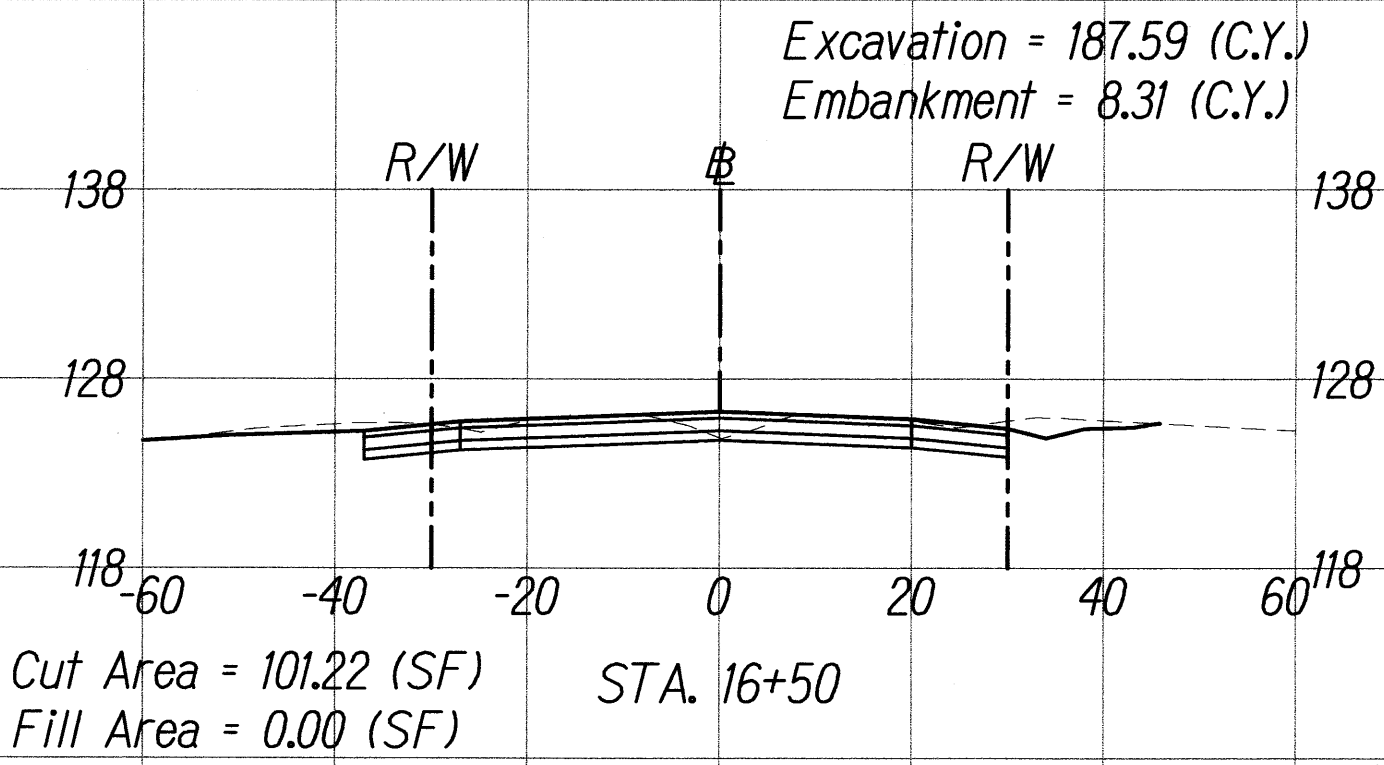


RAMP "A" CROSS SECTION
Scale: Horiz. 1"=20'
Vert. 1"=10'

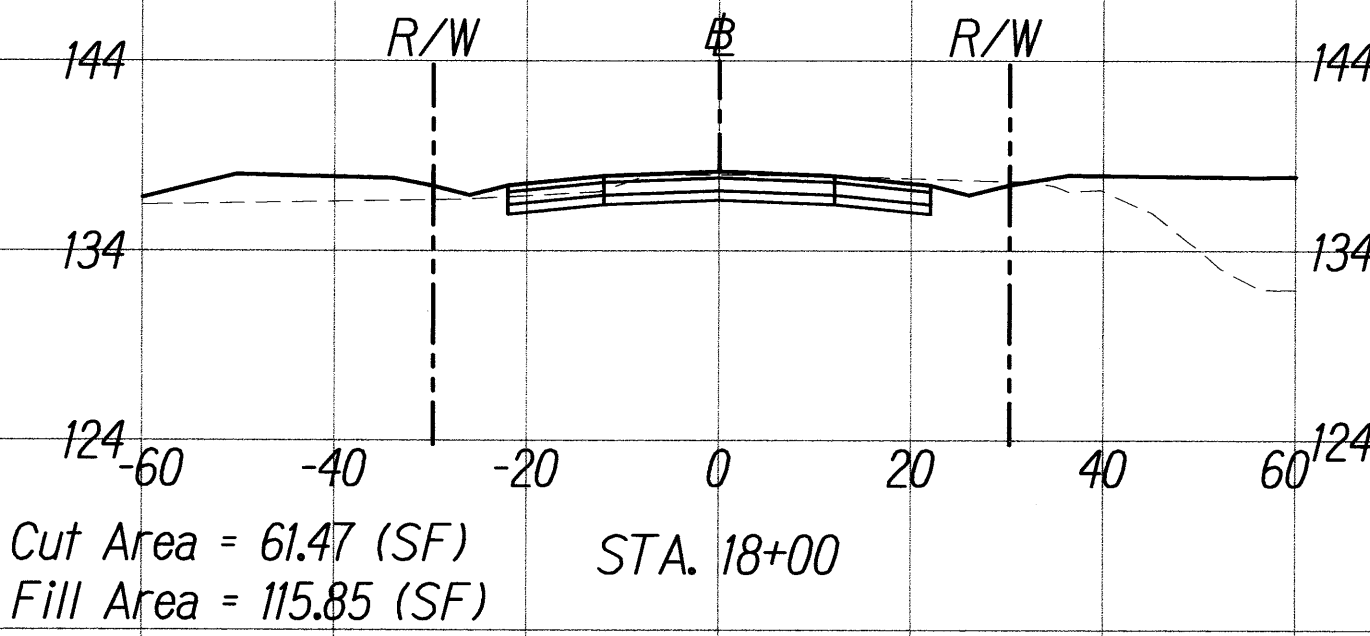
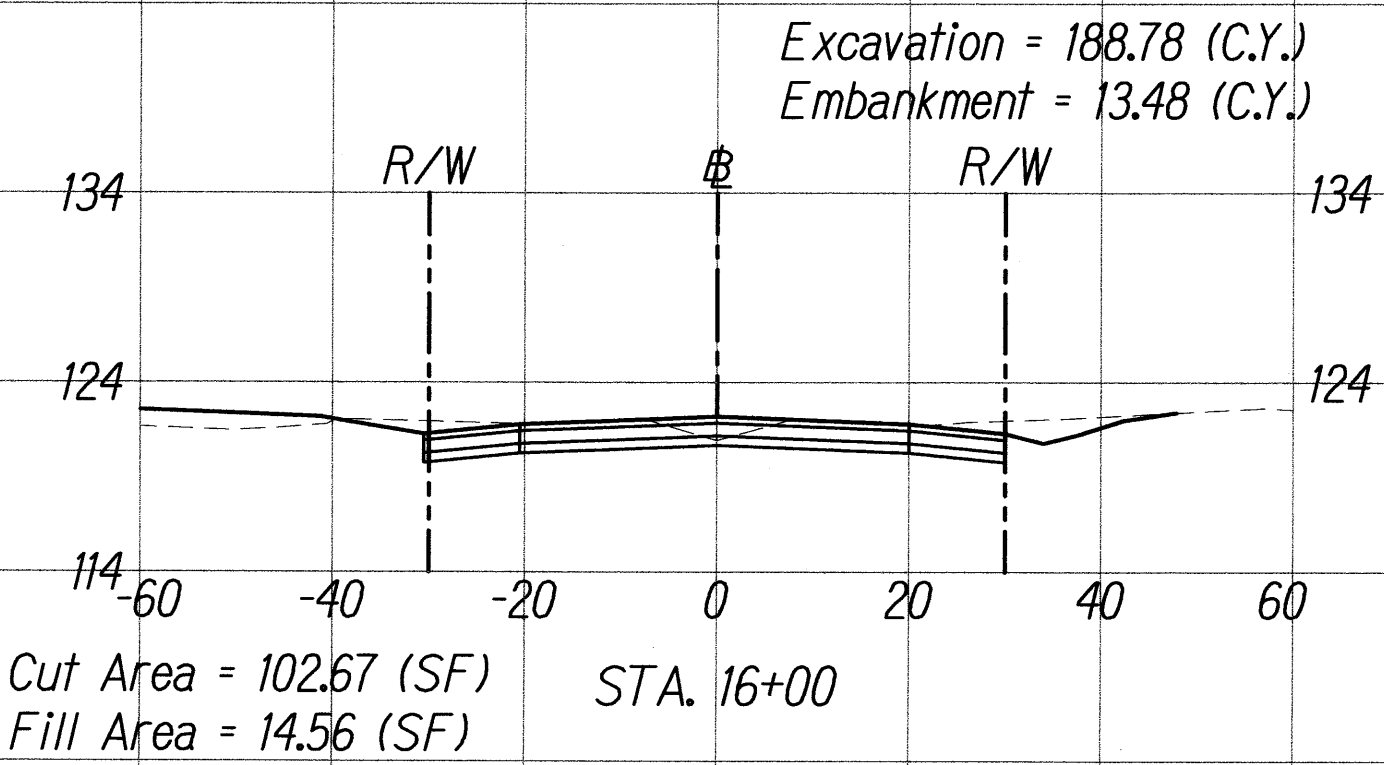


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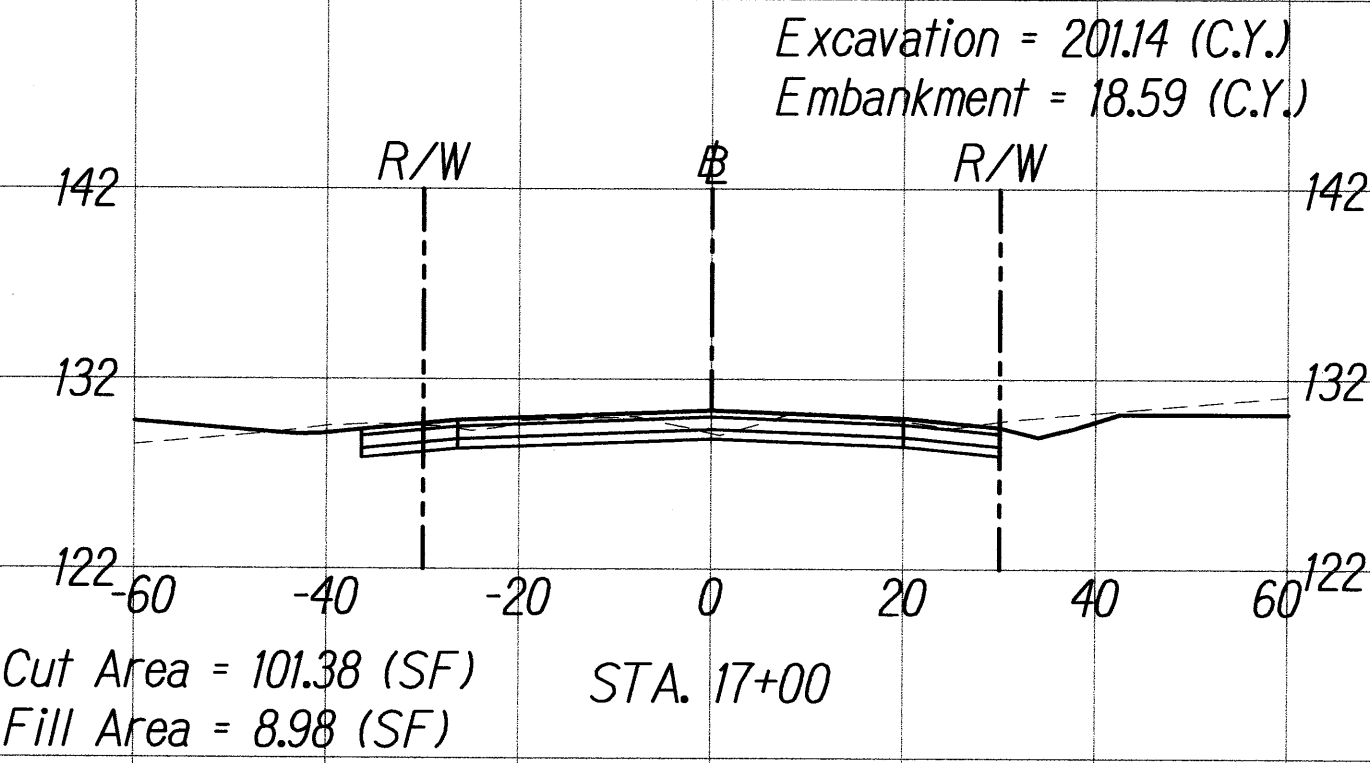
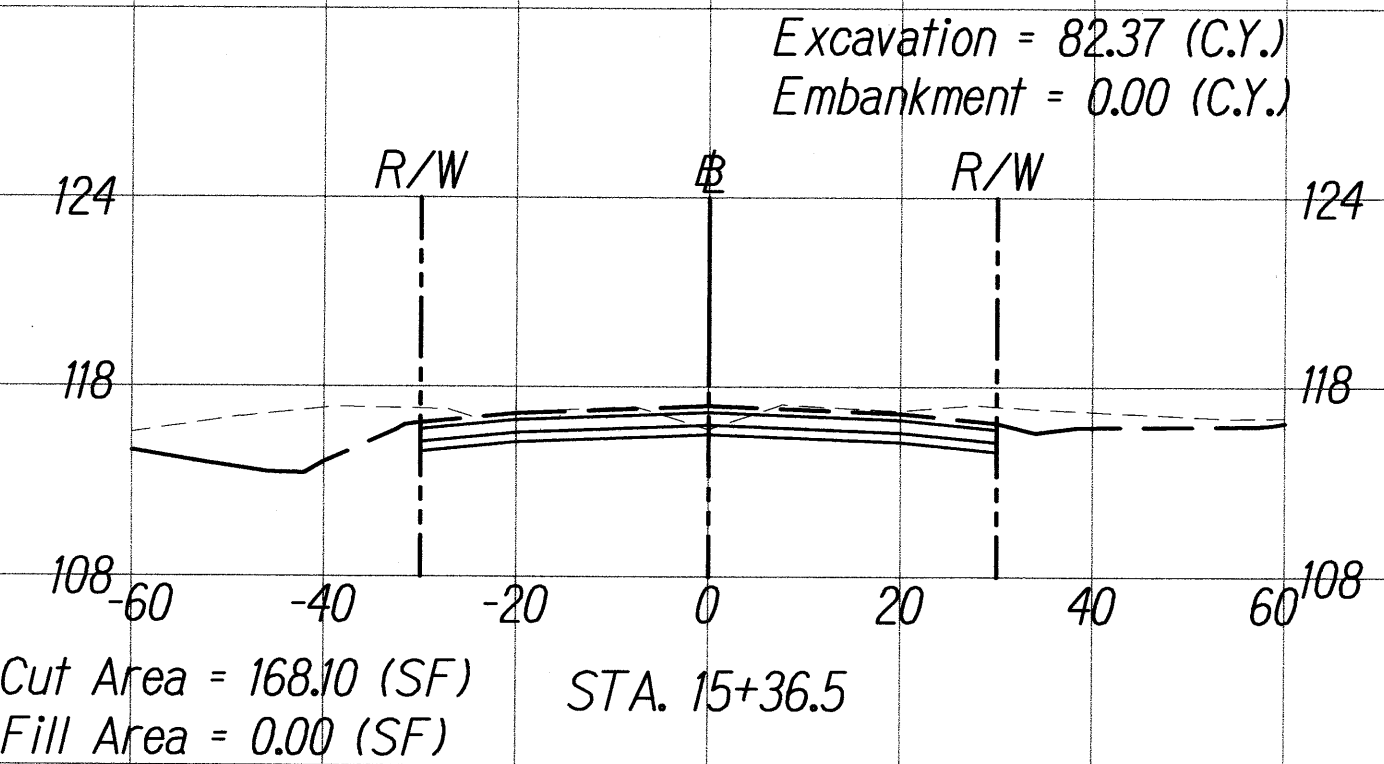
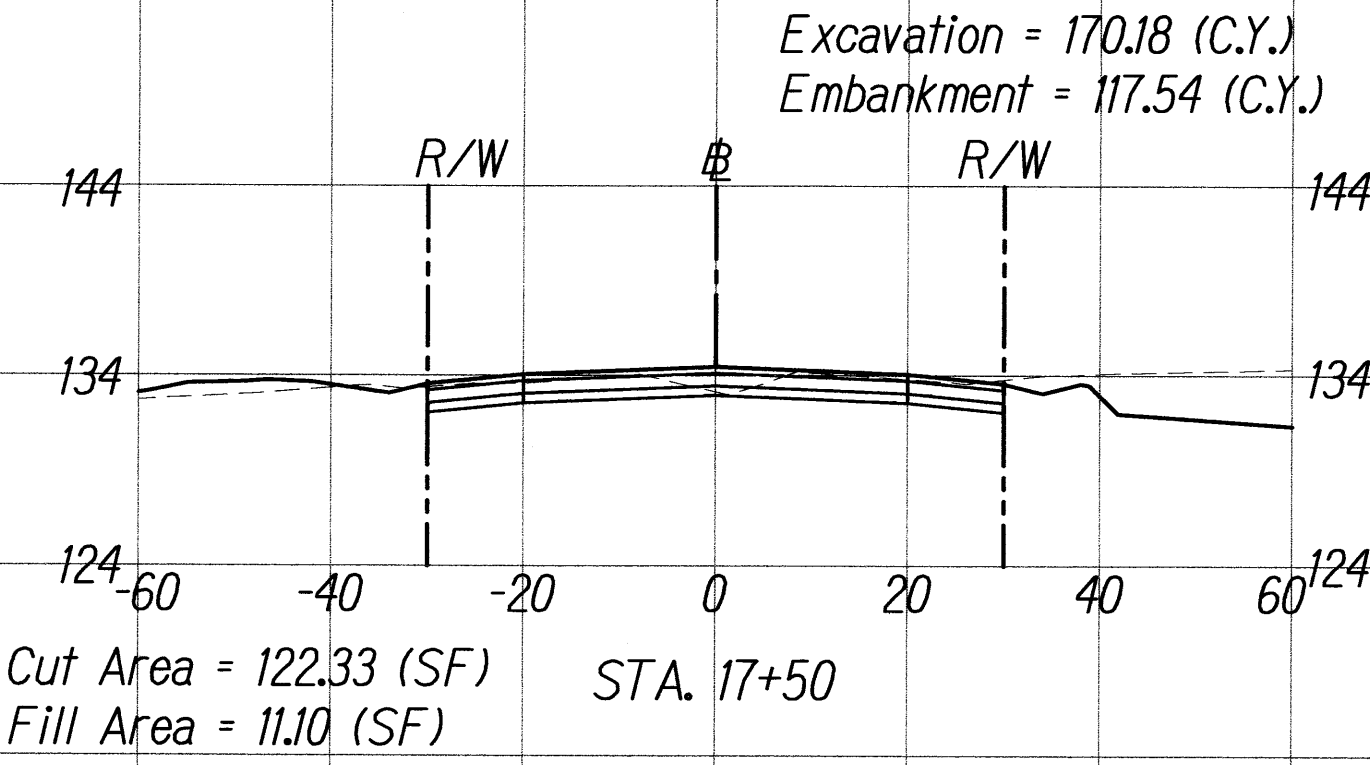
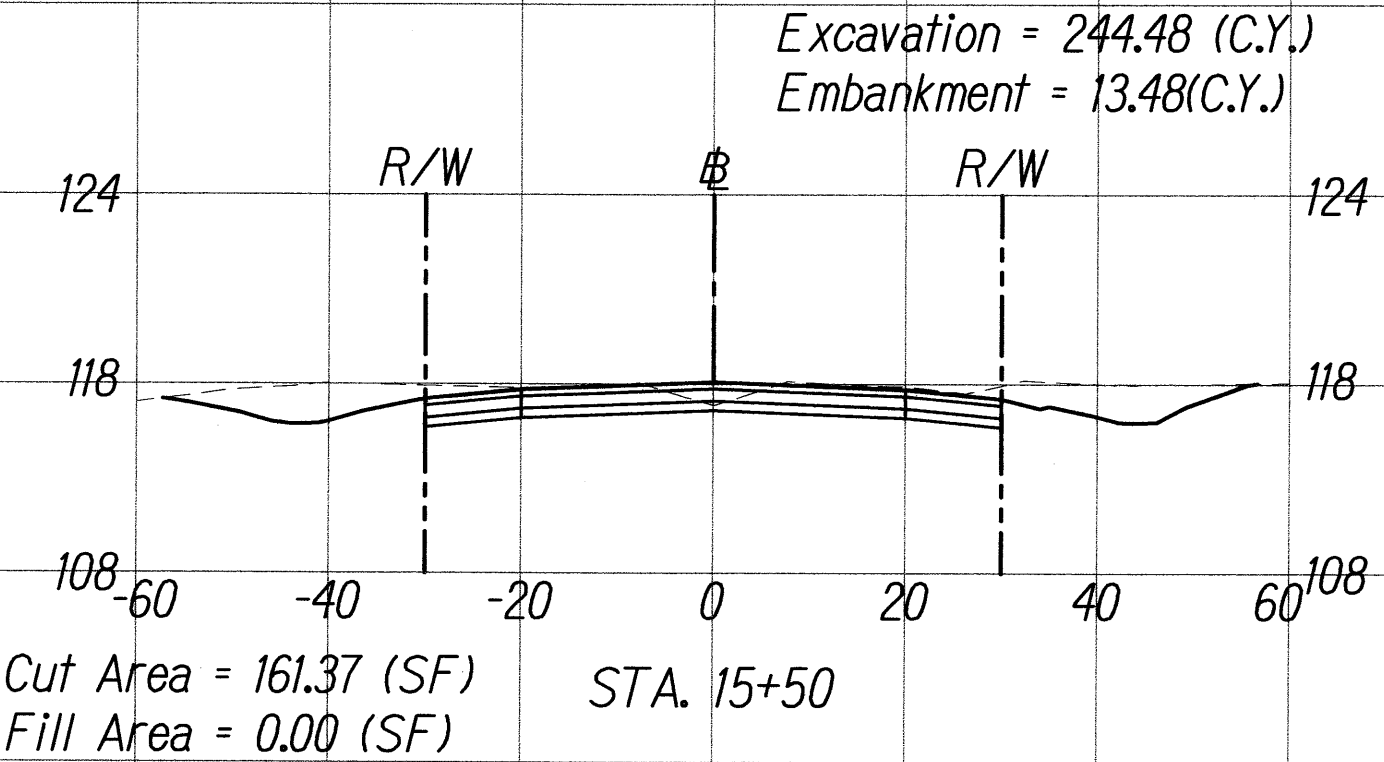
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(38)	2010	213	213



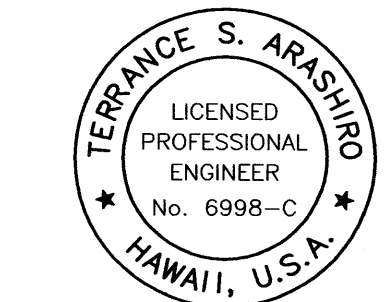
Total Excavation = 1,075 (C.Y.)
Total Embankment = 172 (C.Y.)



EARTHWORK SUMMARY - GRAND TOTAL		
	Total Excavation (C.Y.)	Total Embankment (C.Y.)
Honoapiilani Highway	374,860	331,291
Hokiokio Connector	26,070	14,269
Ramp "A"	214	2,445
Hokiokio Place	1,075	172
Sub-Total	402,219	348,177
Stockpile from Phase 1A	155,000	N/A
Grand Total	557,219	348,177



HOKIOKIO PLACE CROSS SECTION
Scale: Horiz. 1"=20'
Scale: Vert. 1"=10'



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