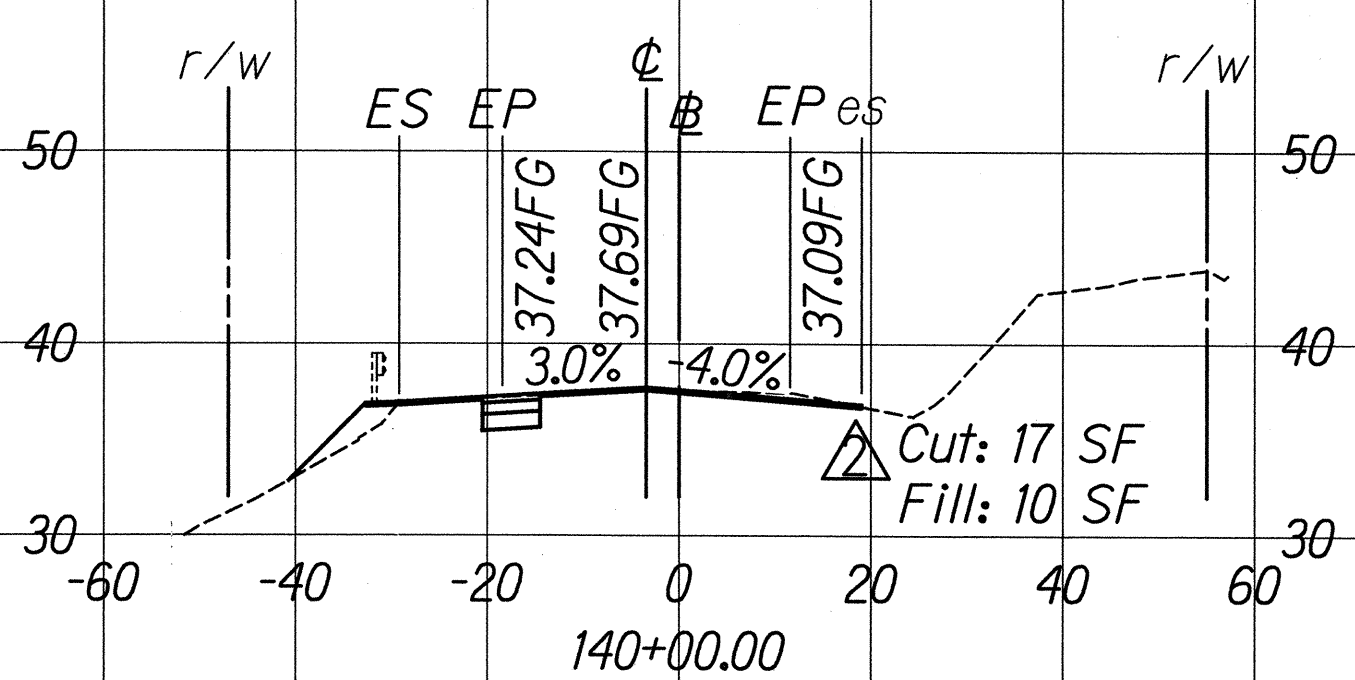
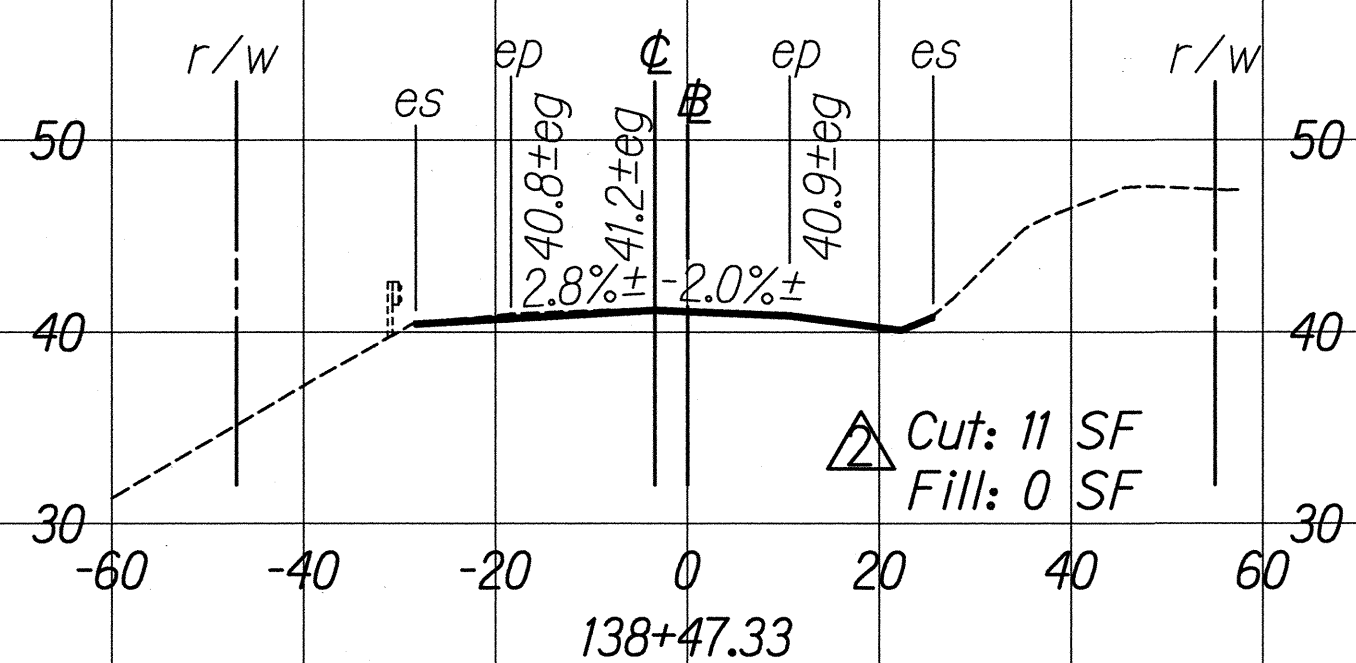
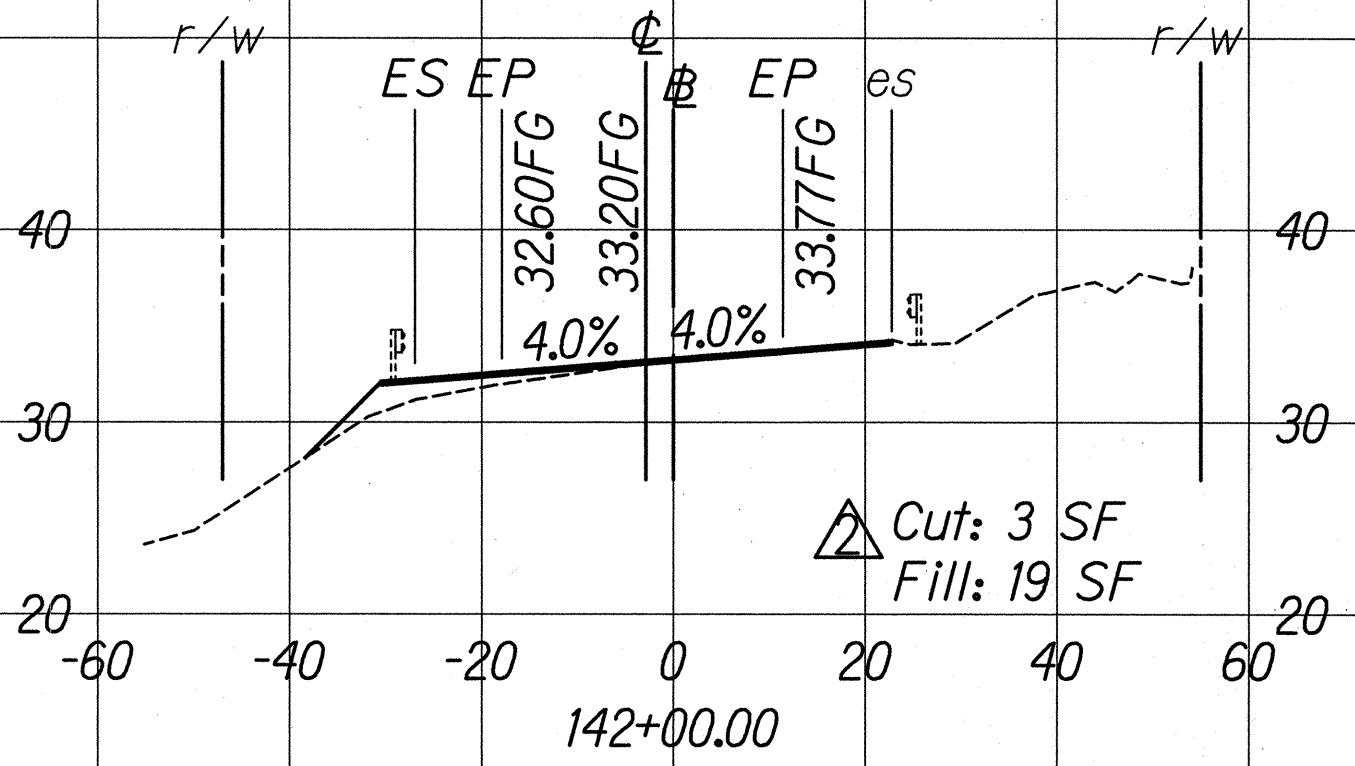
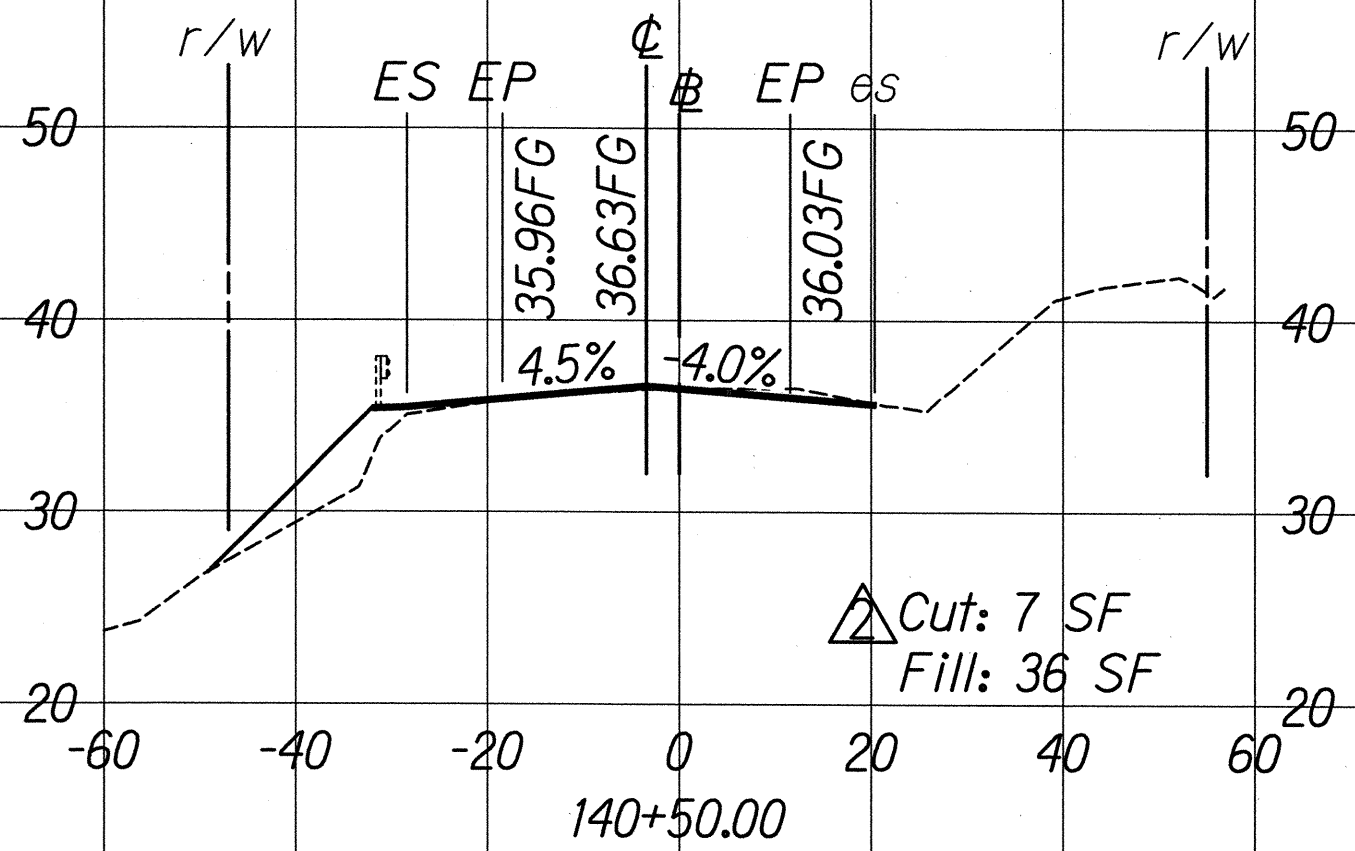
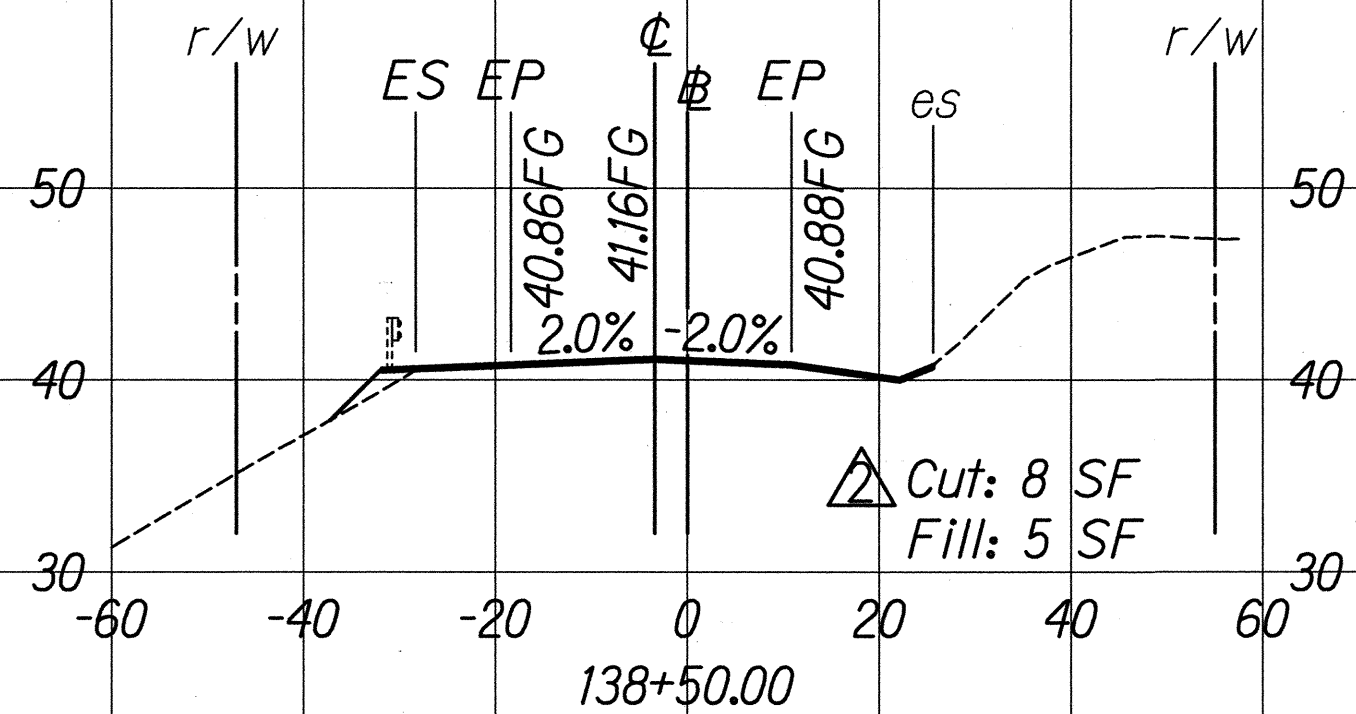
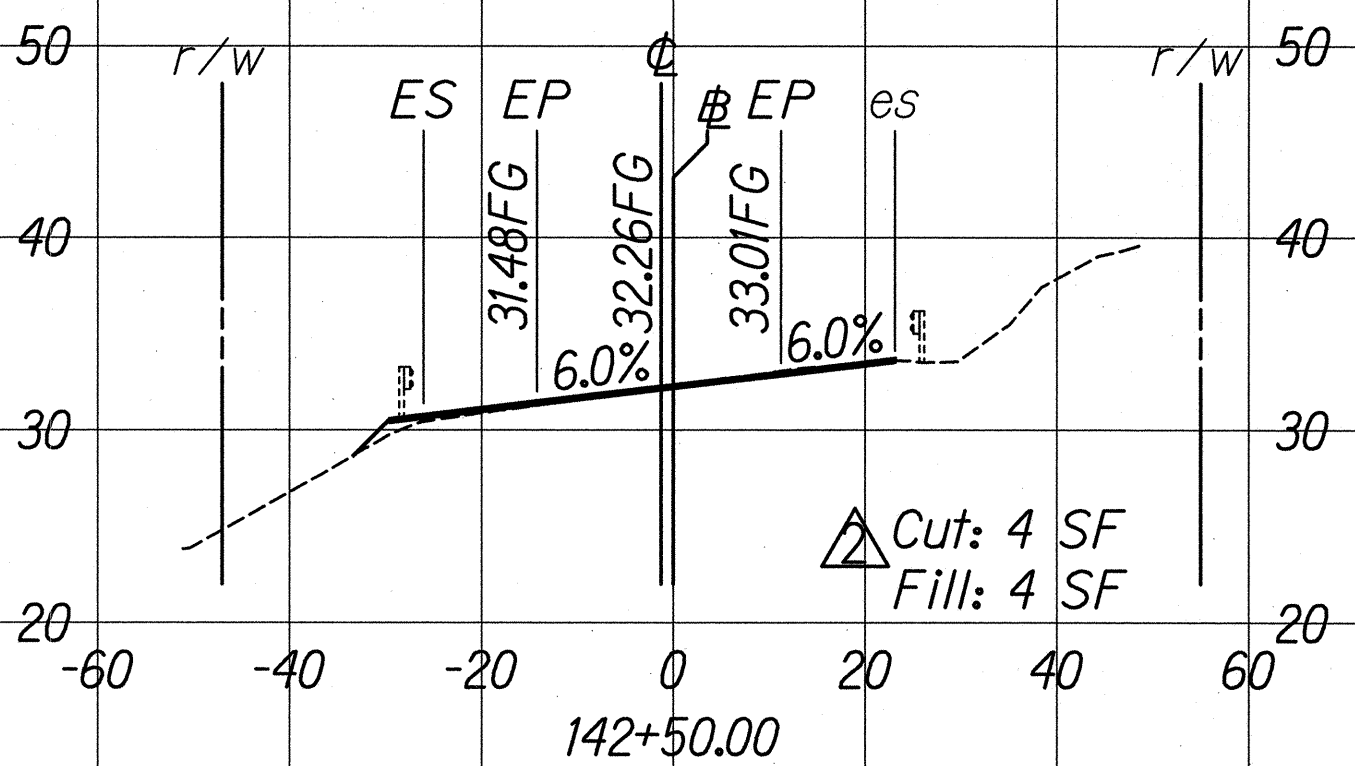
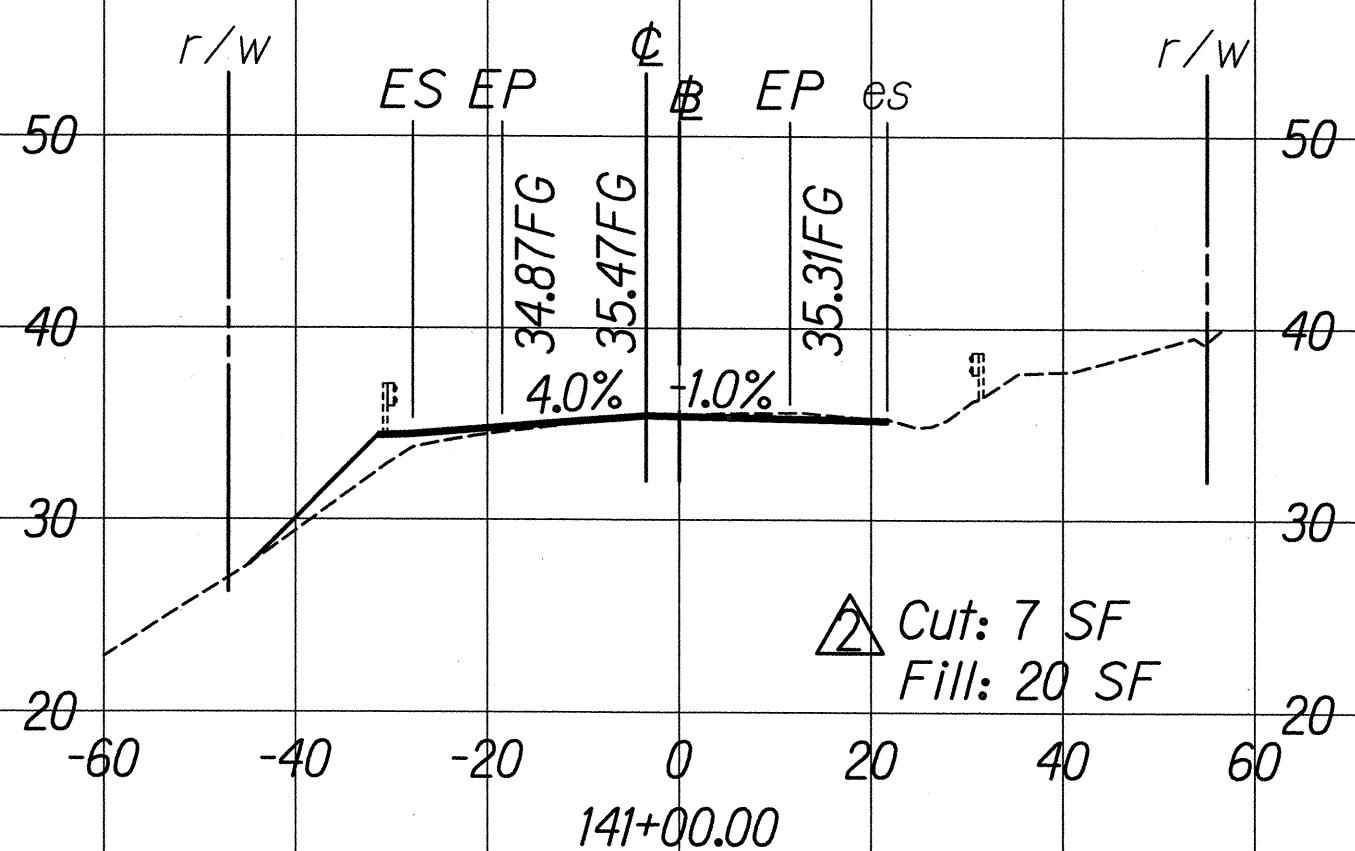
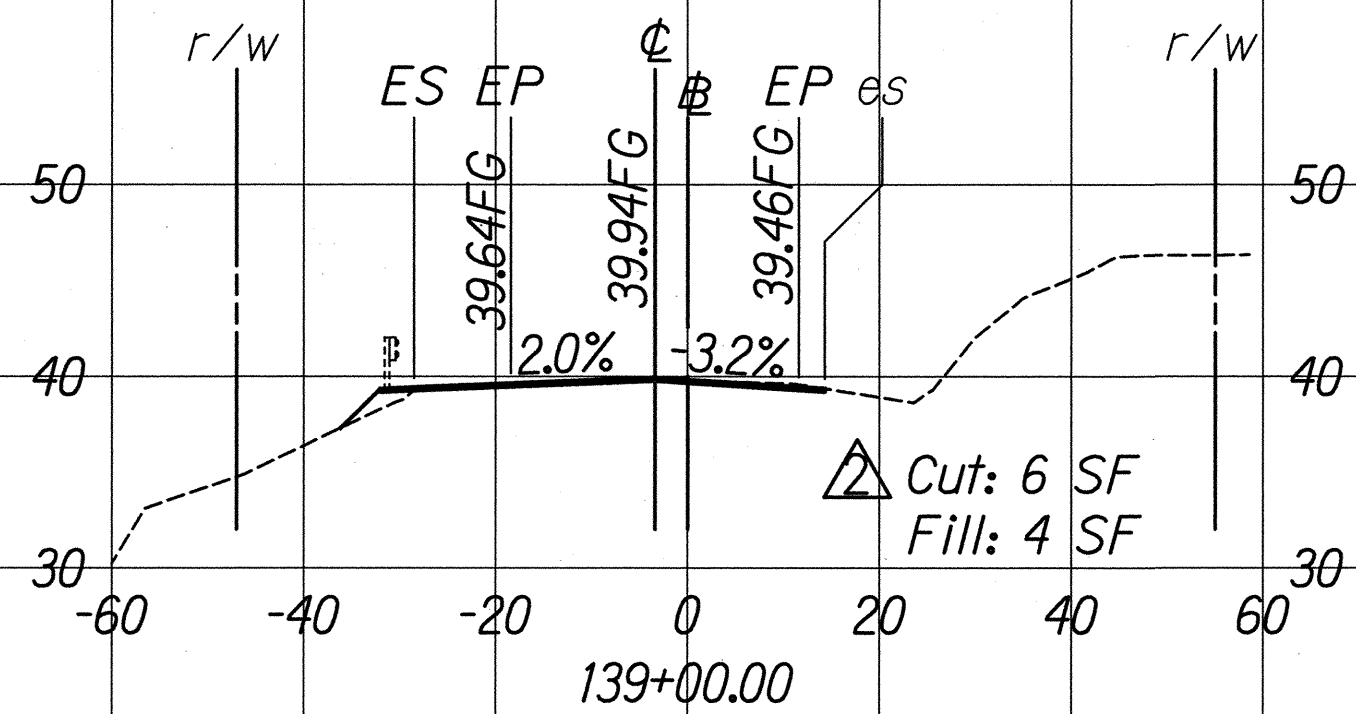
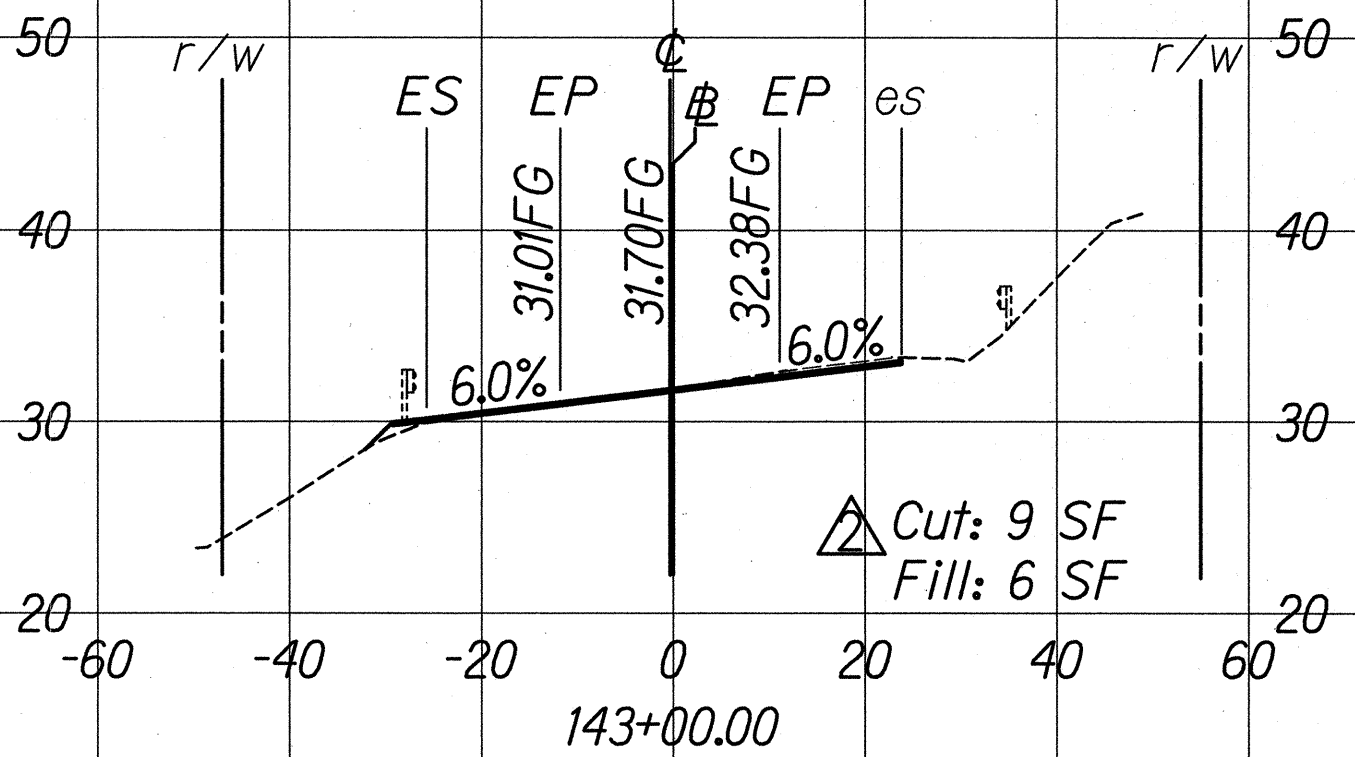
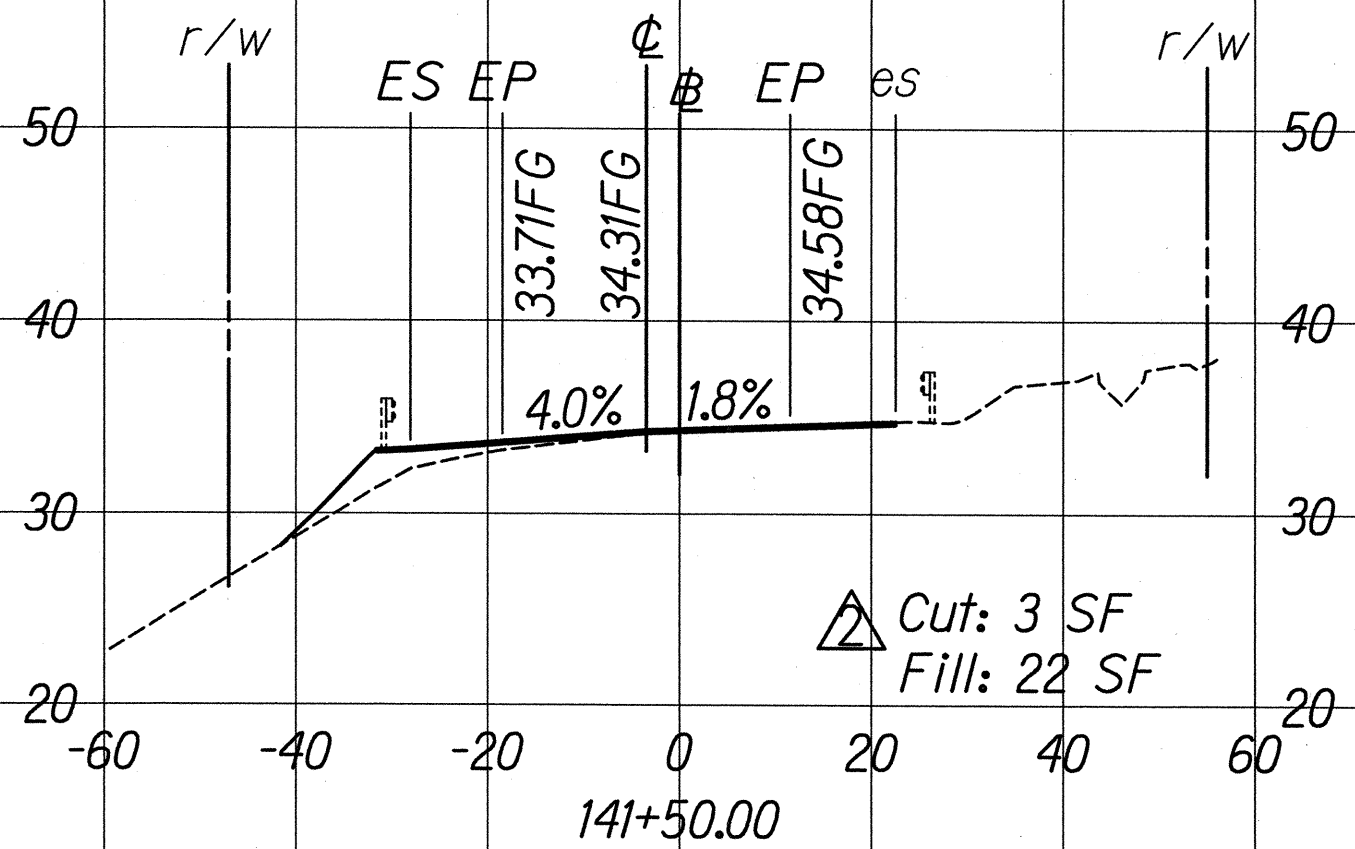
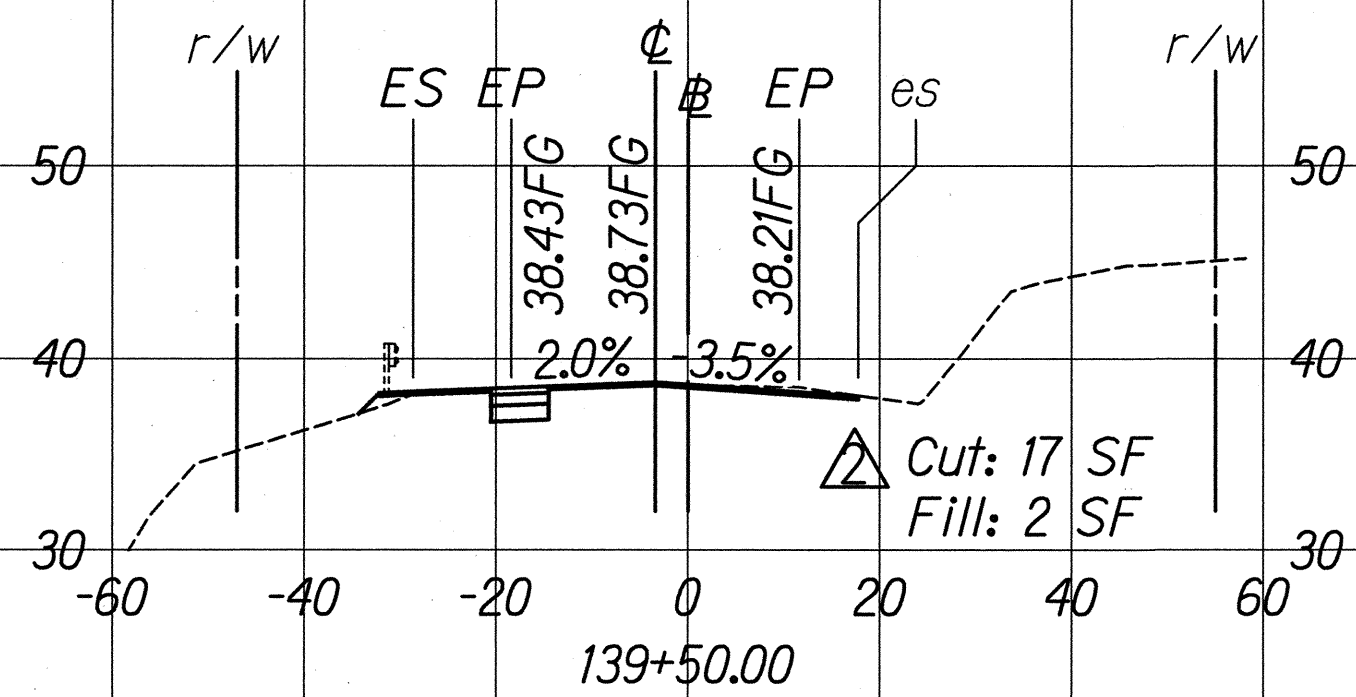
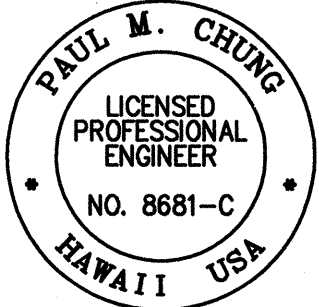
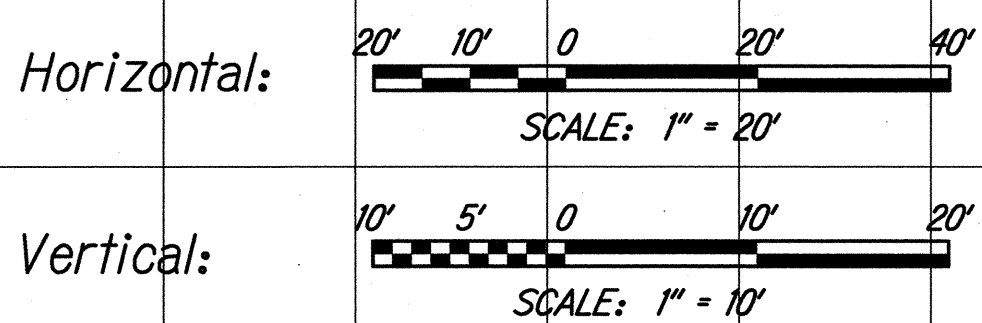


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 111	117



GRAPHICAL SCALES:



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

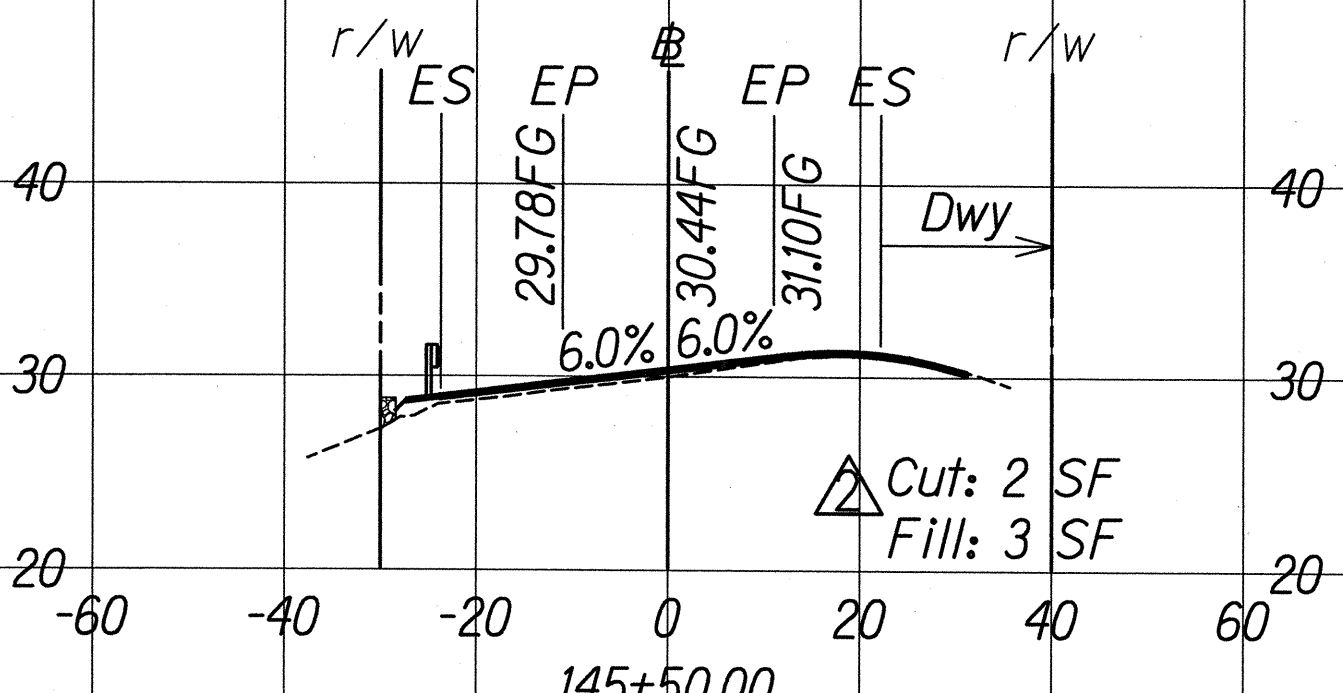
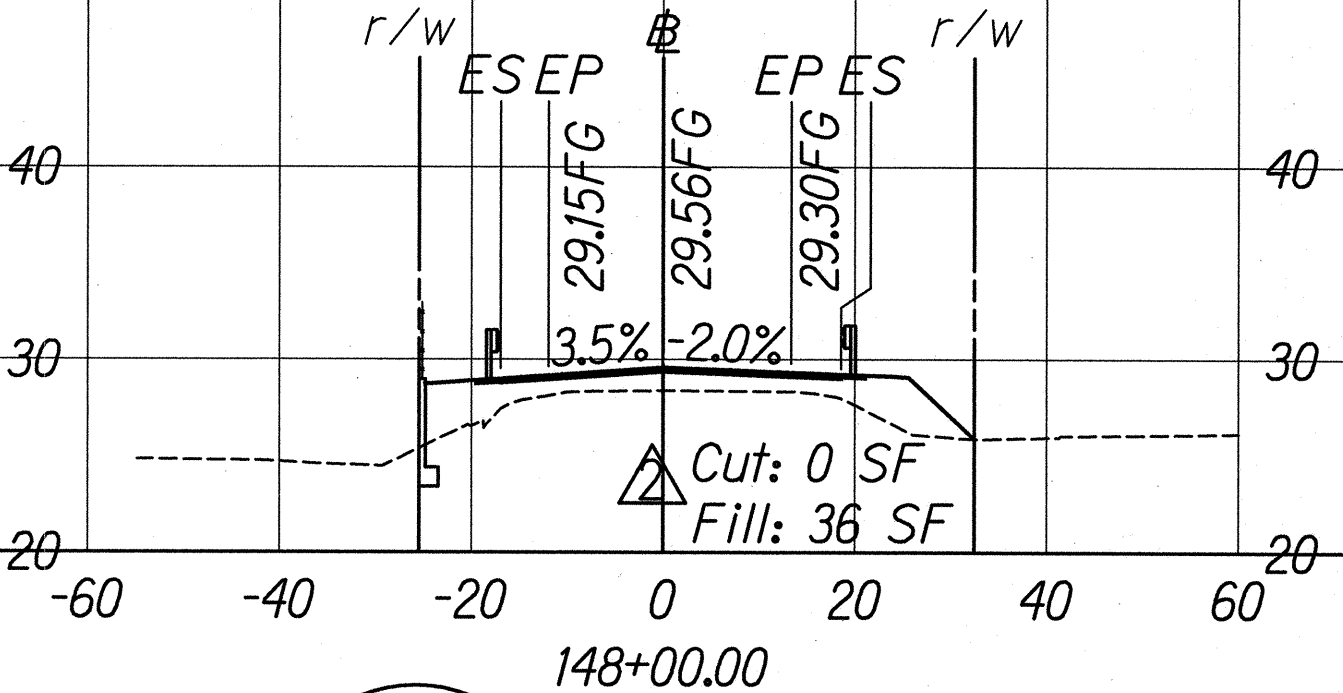
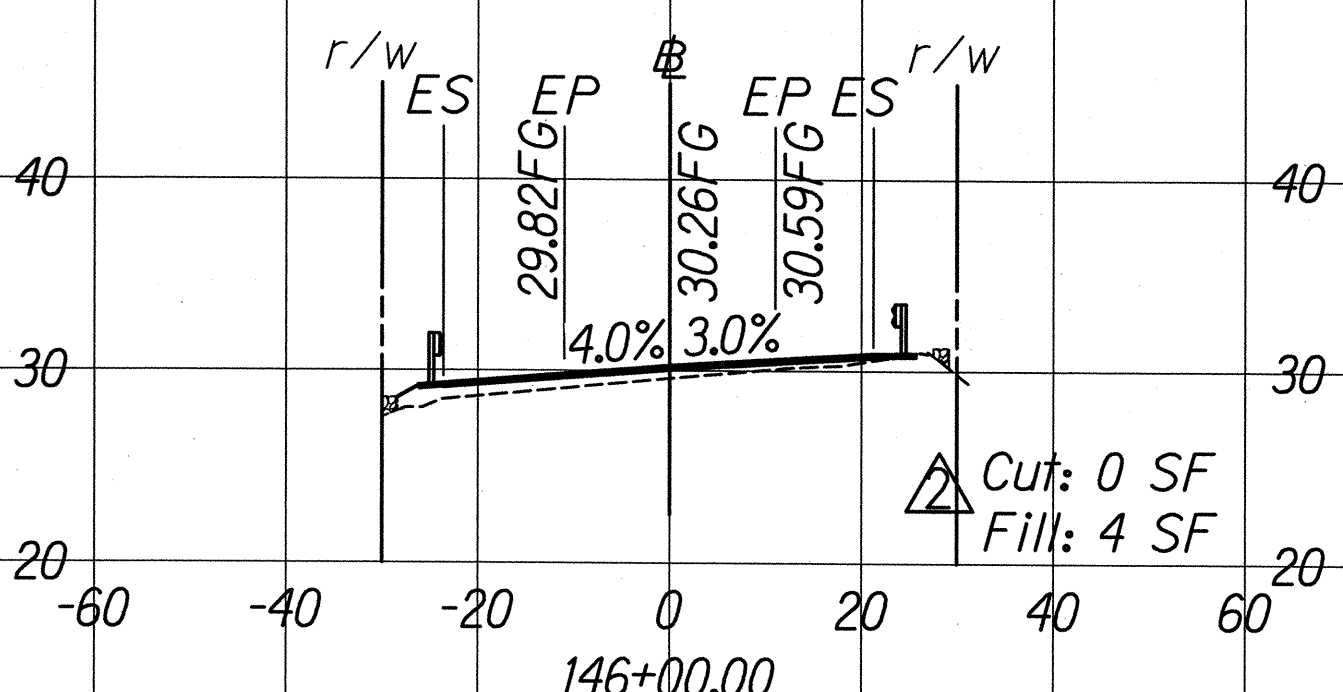
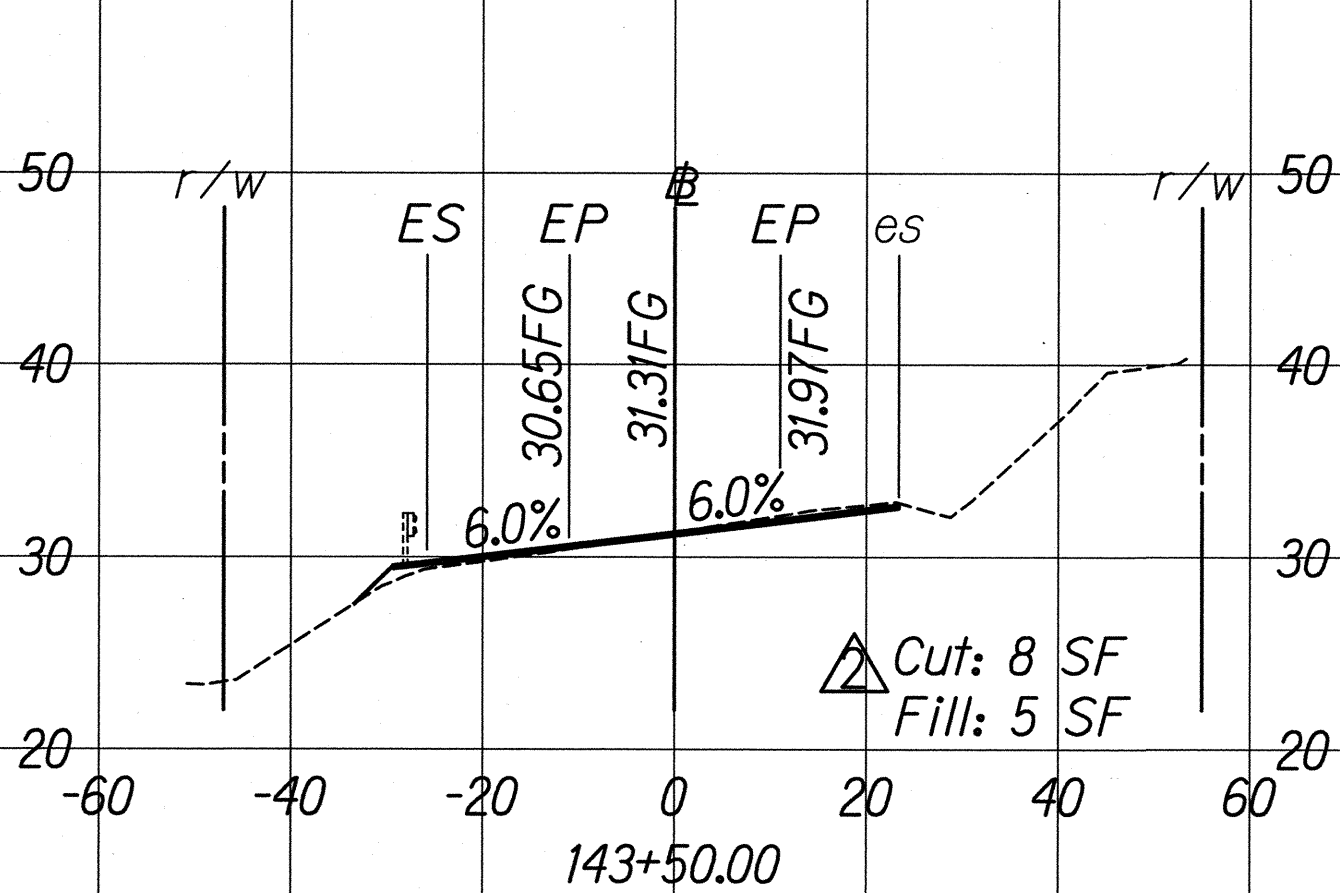
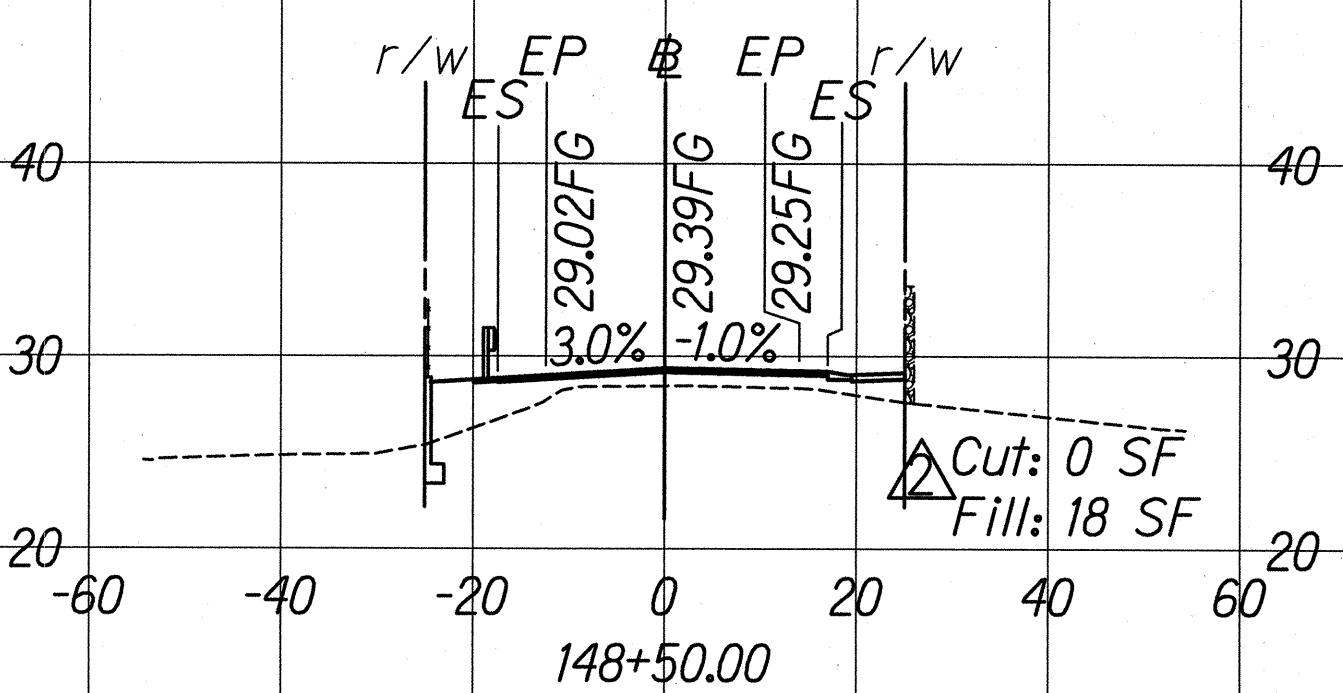
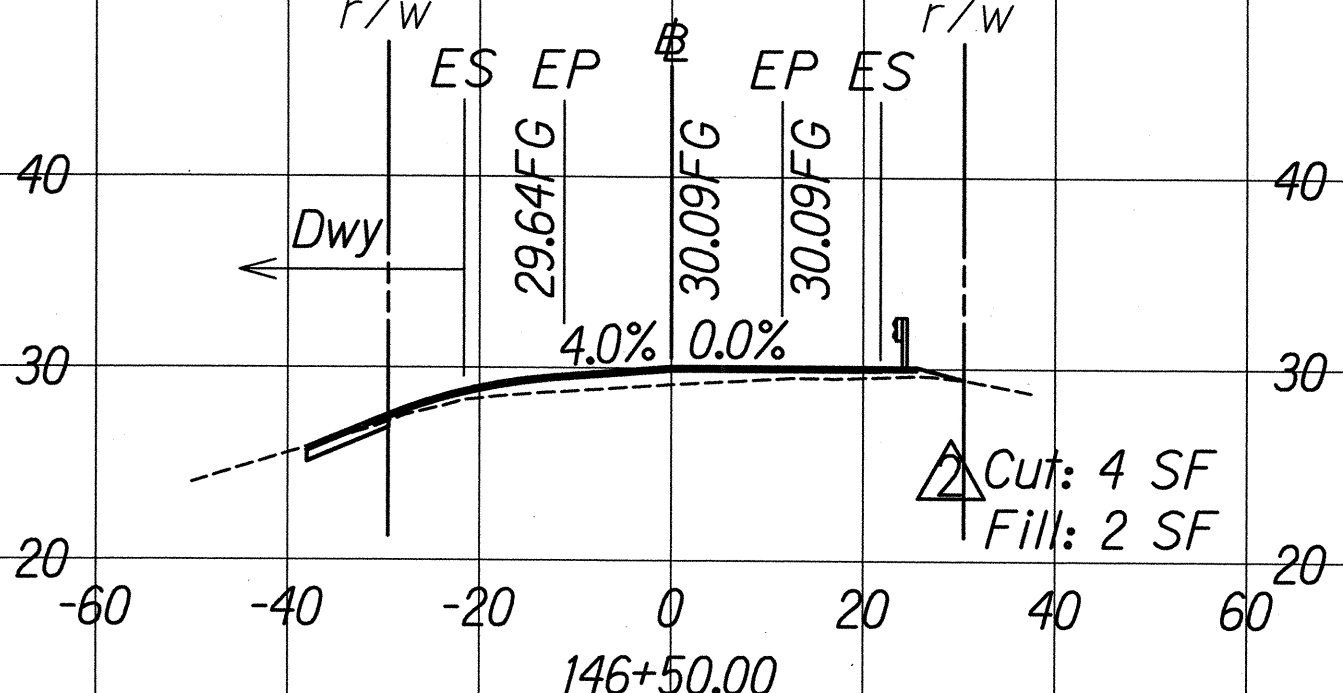
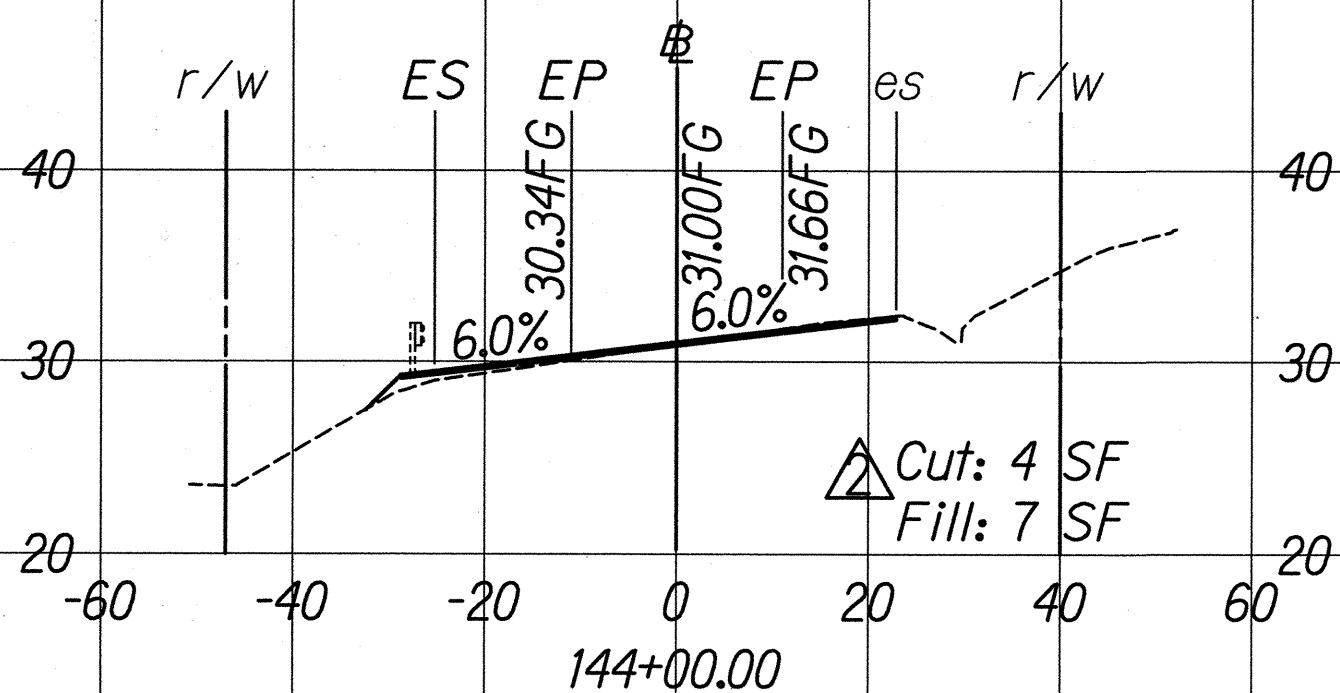
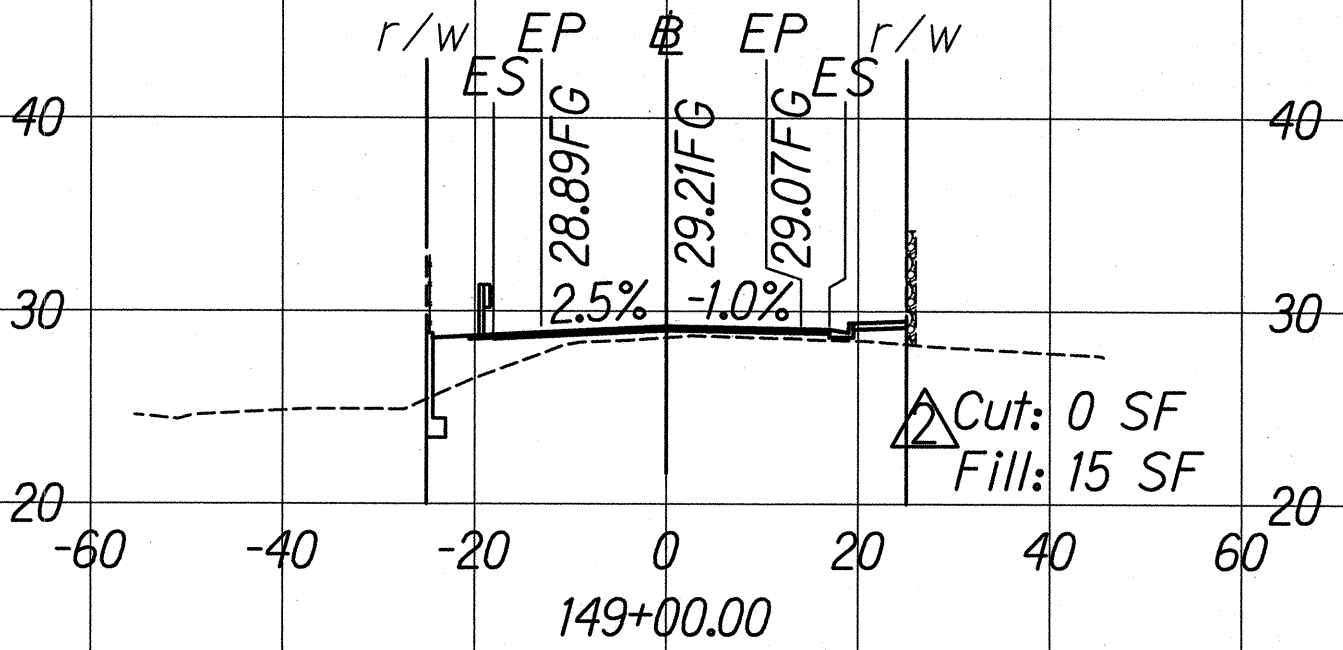
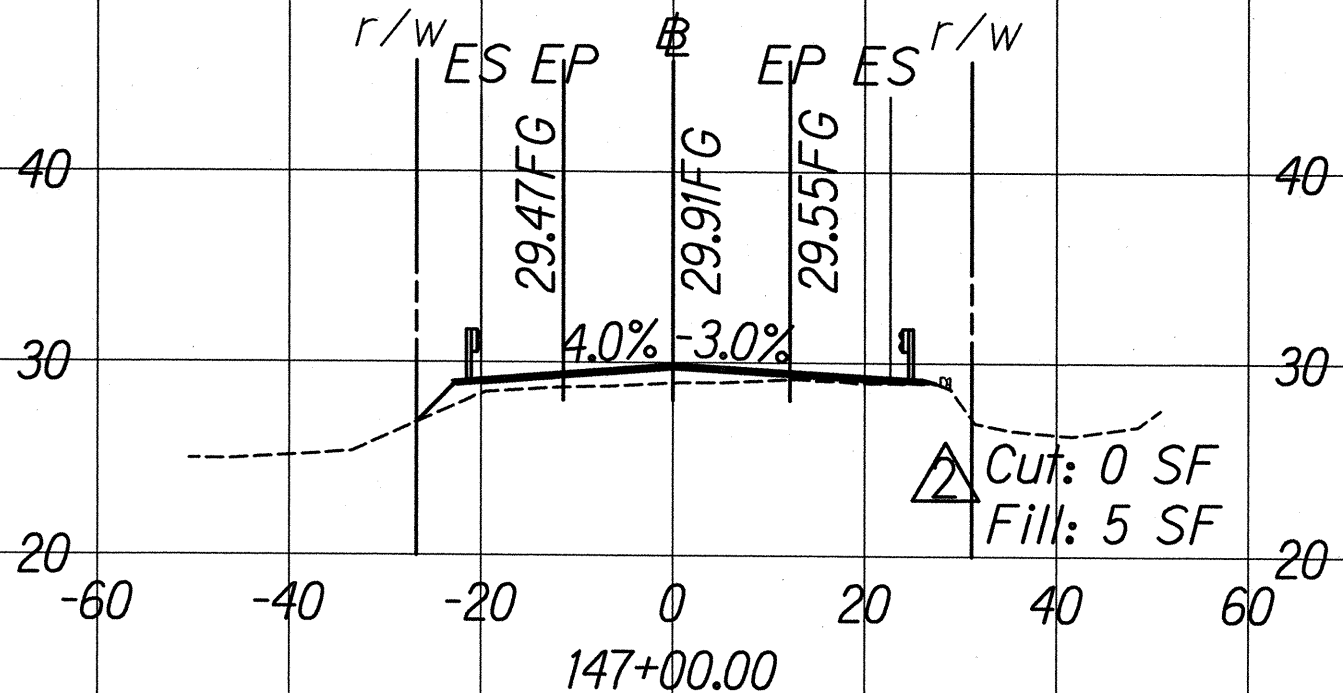
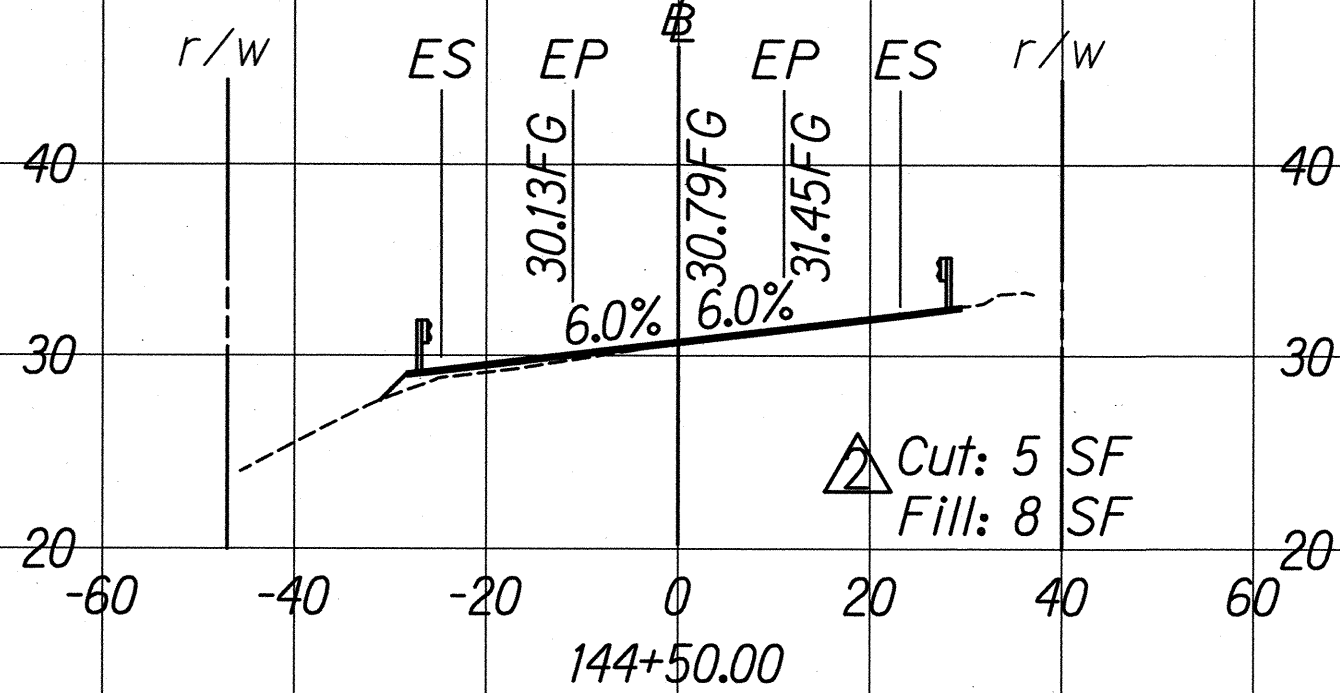
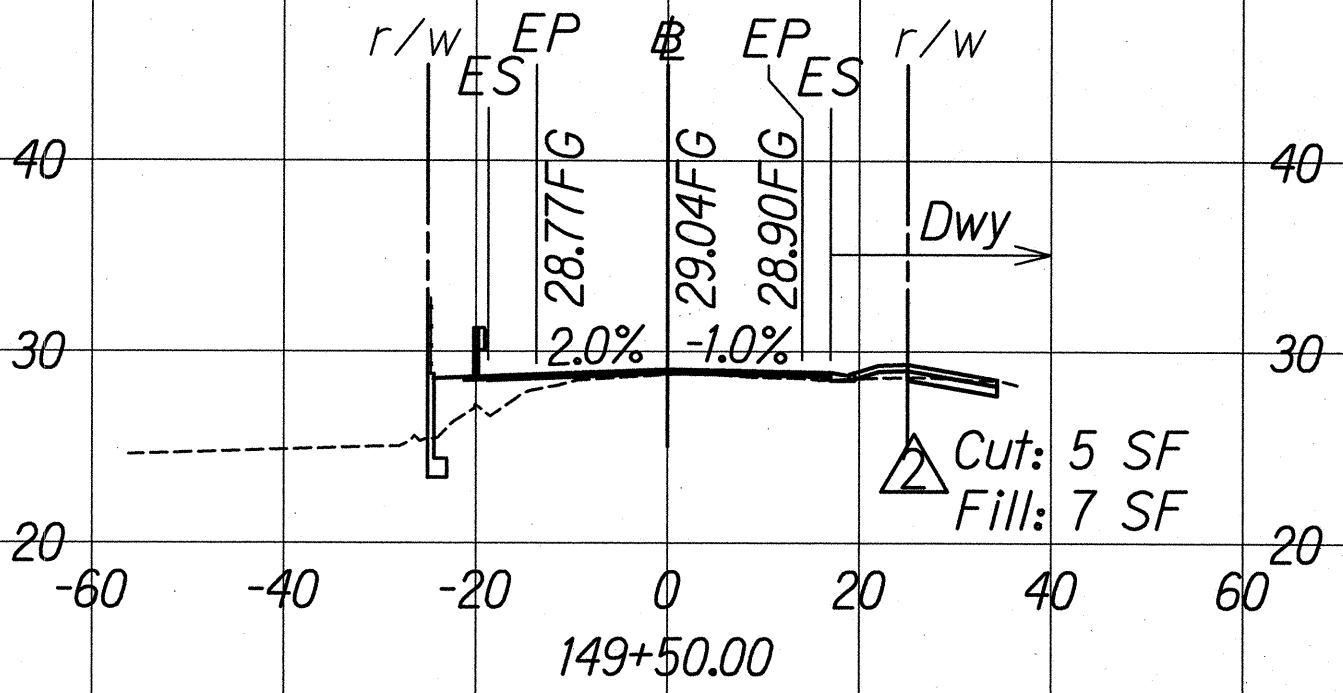
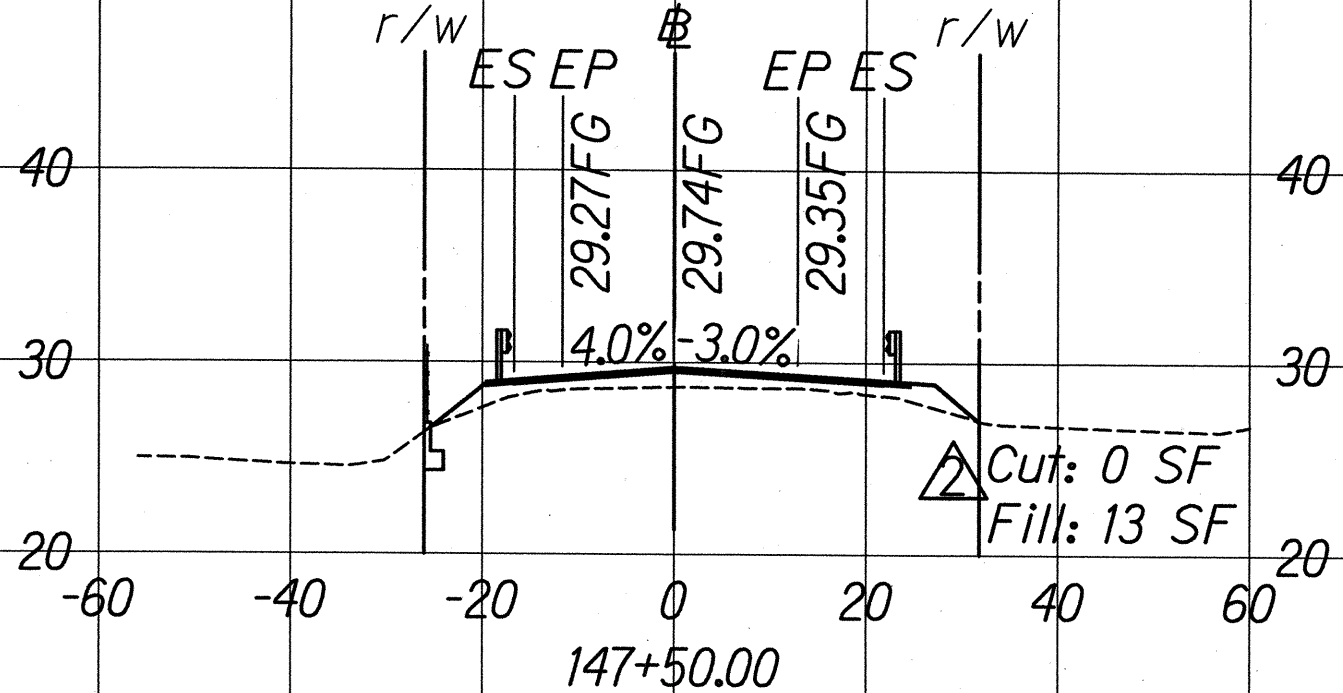
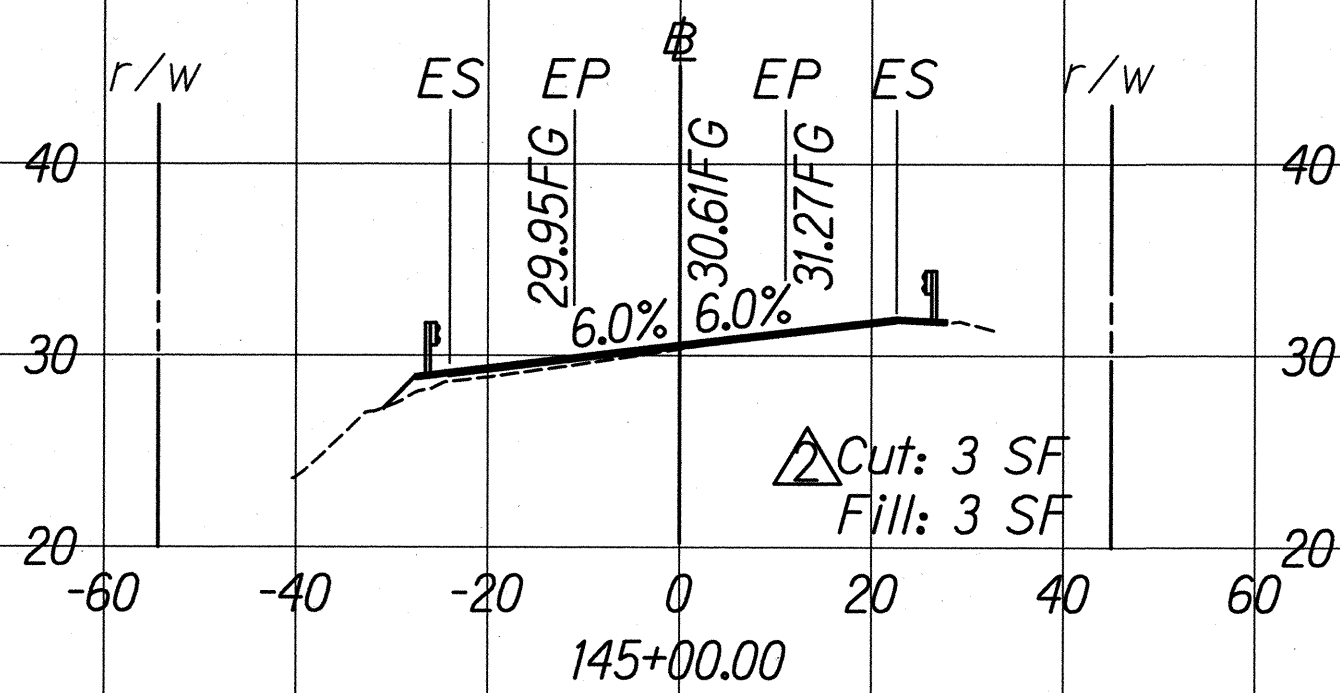
SIGNATURE: [Signature] 04/30/16 EXPIRATION DATE OF THE LICENSE

10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 1	OF 7 SHEETS

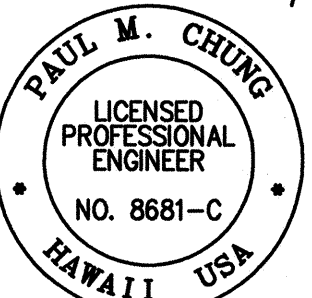
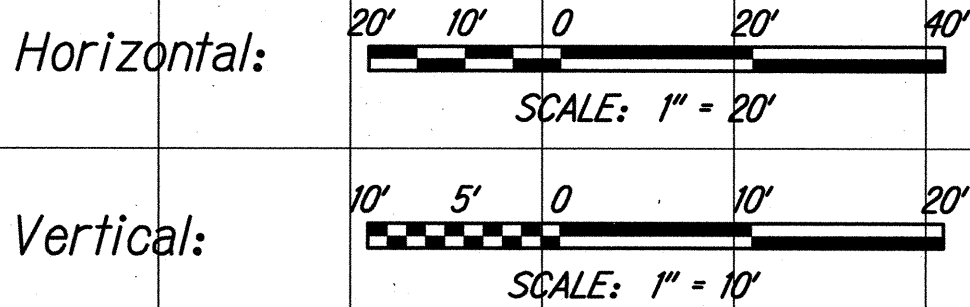
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

W:\CIVIL 3D PROJECTS\2008_008_000 DOT-HWT KAL HWY IMP WAIMANALO PH 1\1111-01 - ROAD CROSS SECTION.DWG 10/23/2015 10:10 AM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 112	117



GRAPHICAL SCALES:

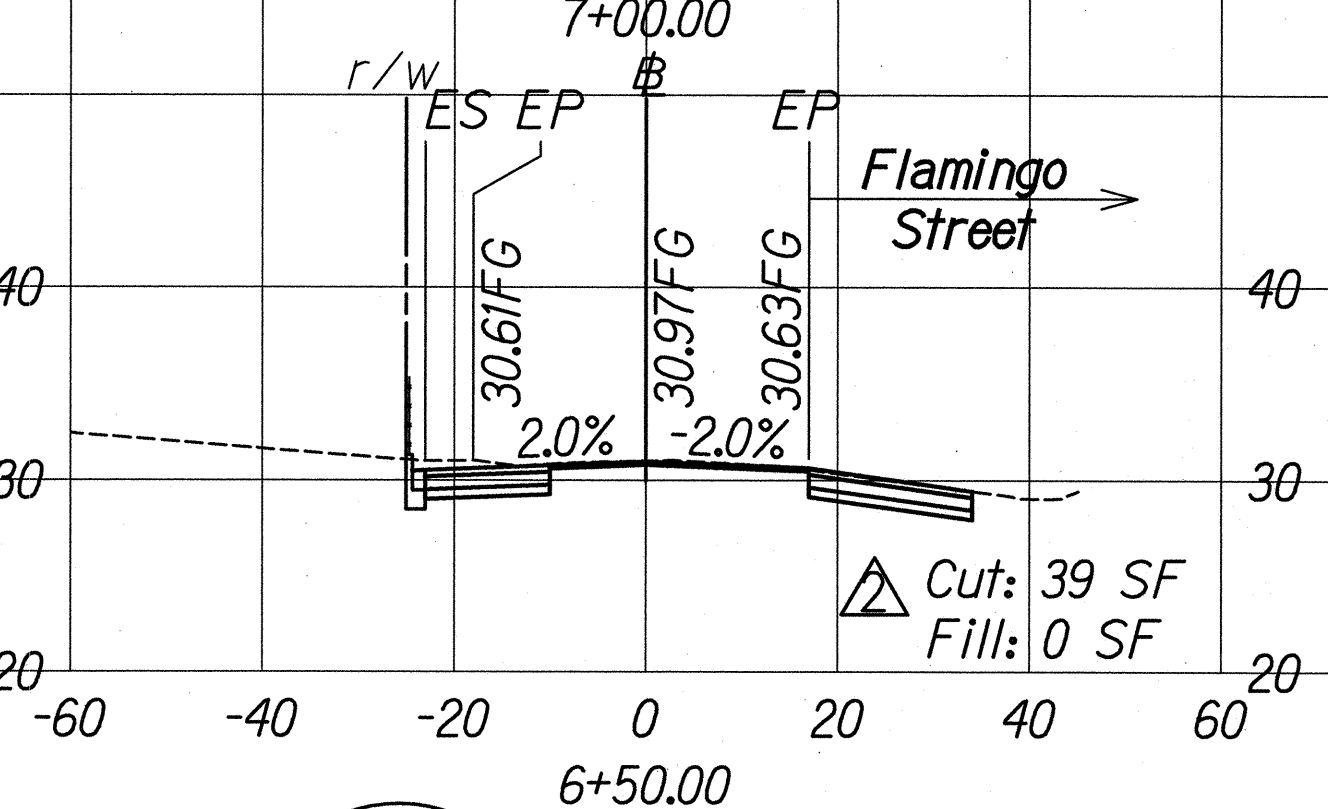
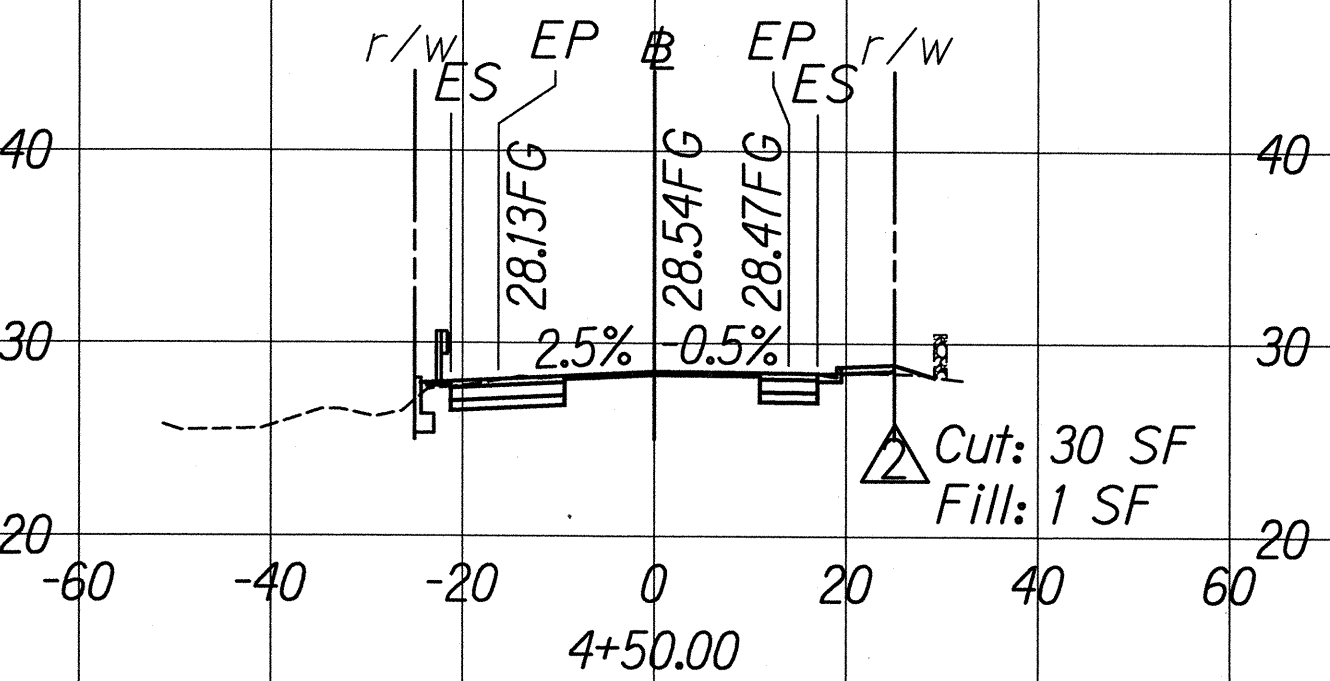
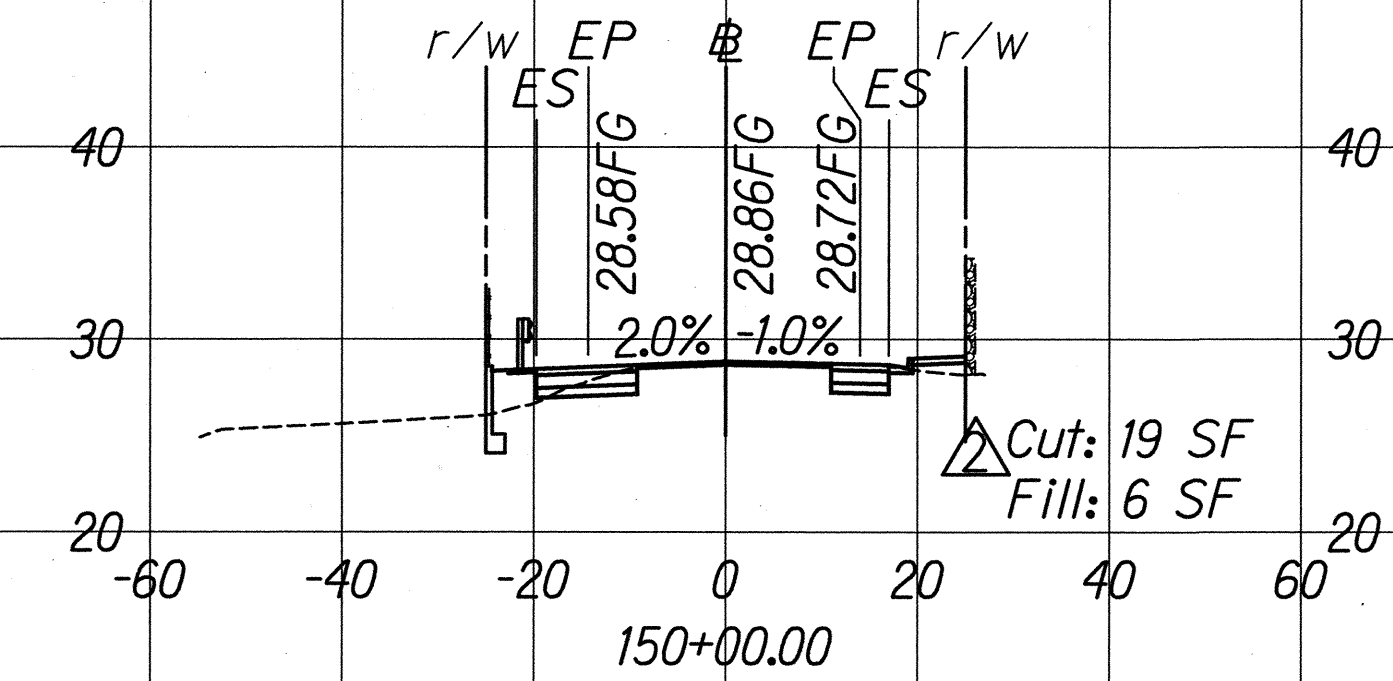
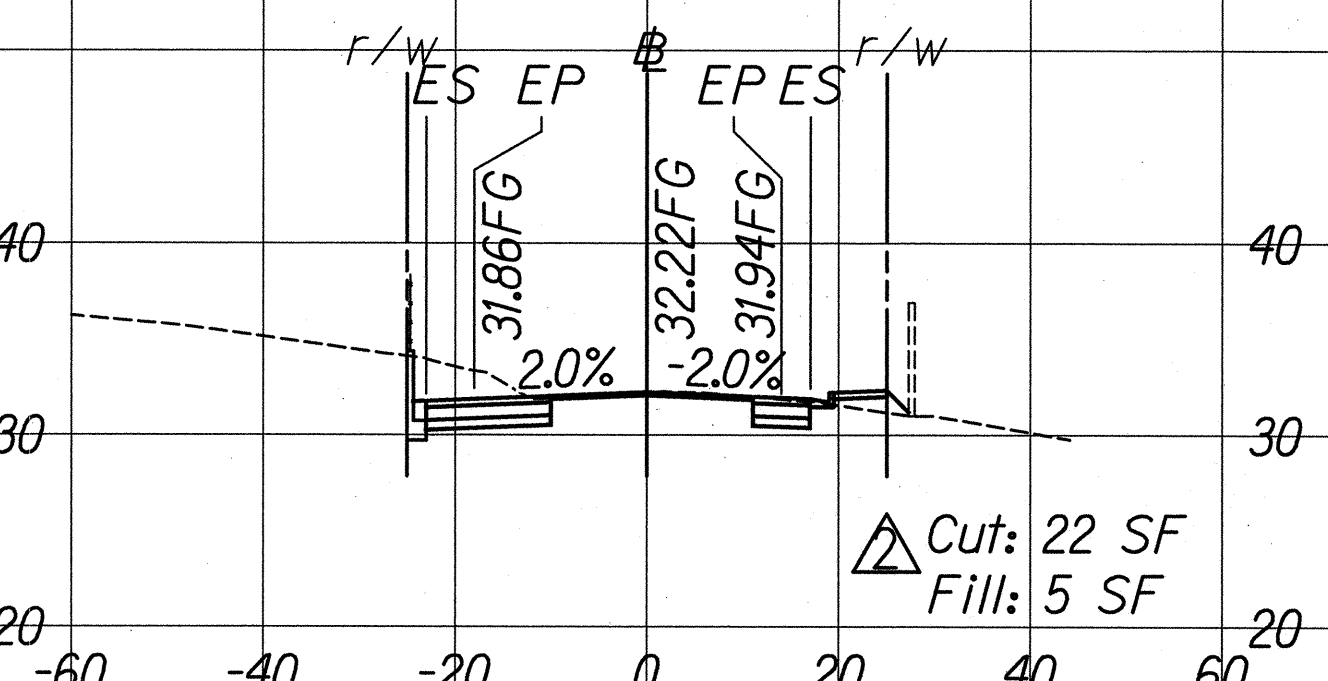
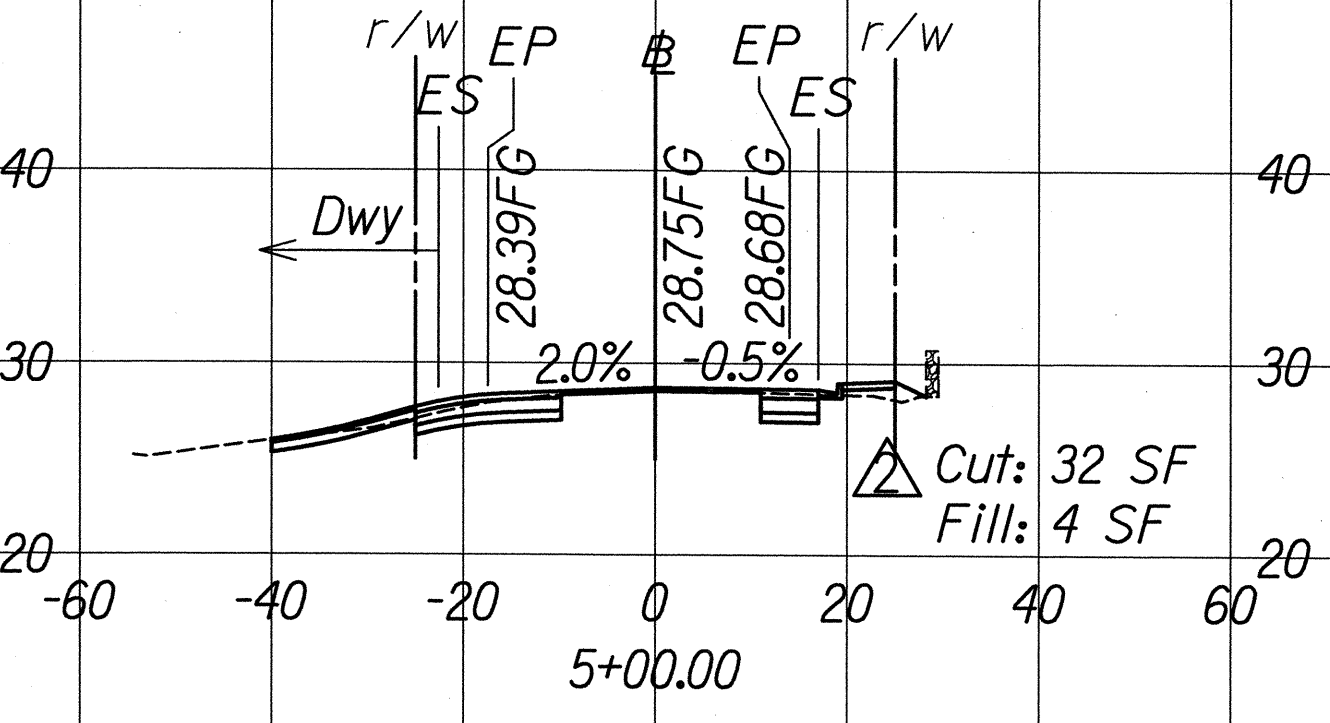
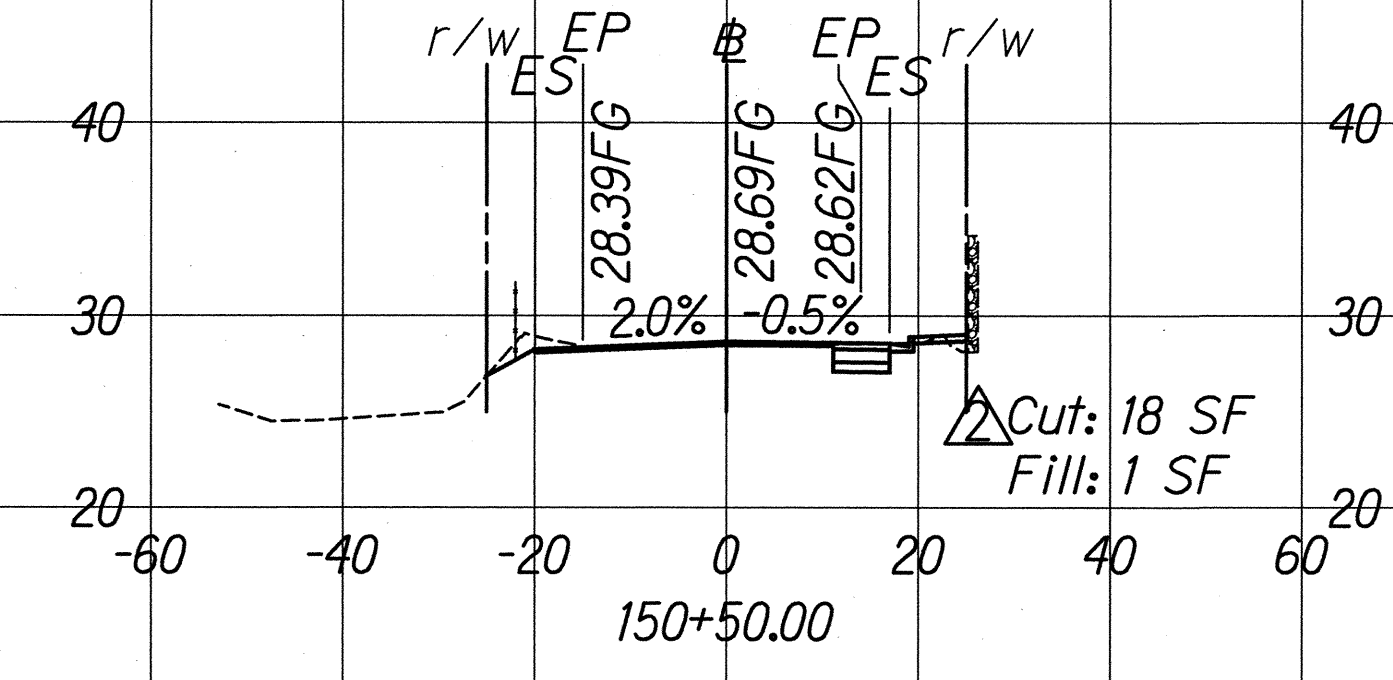
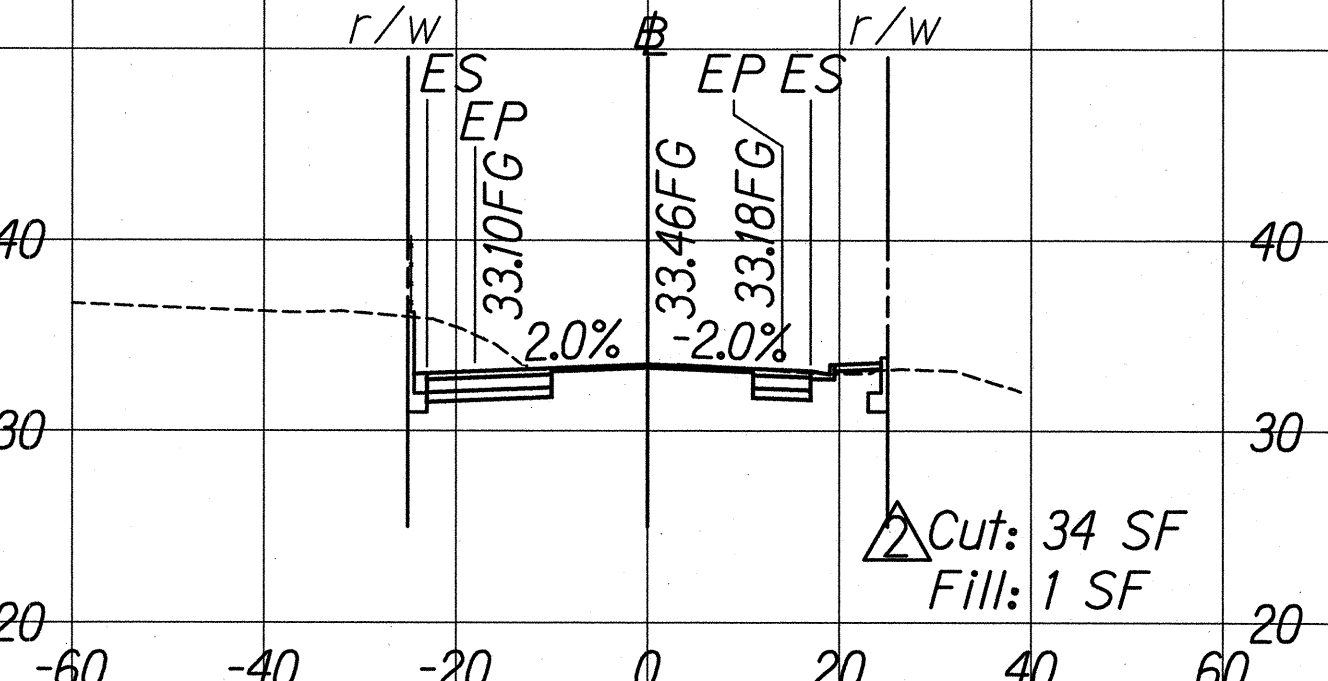
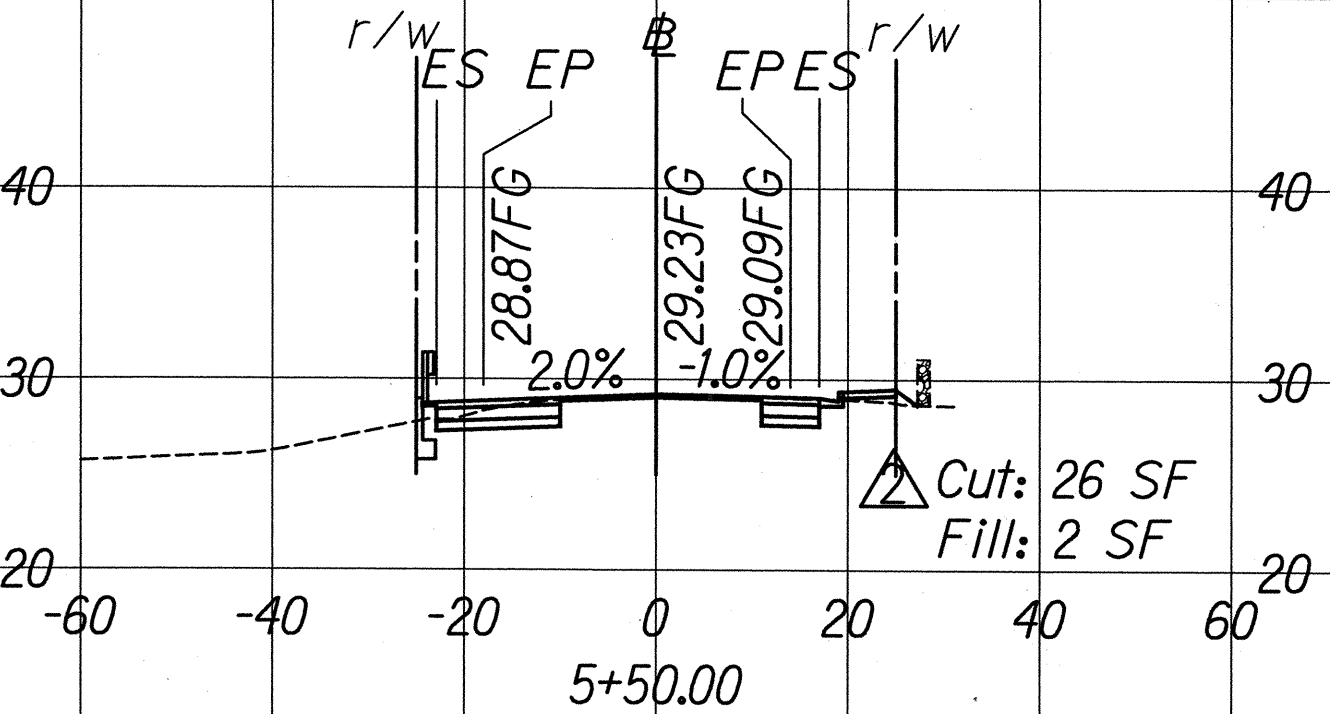
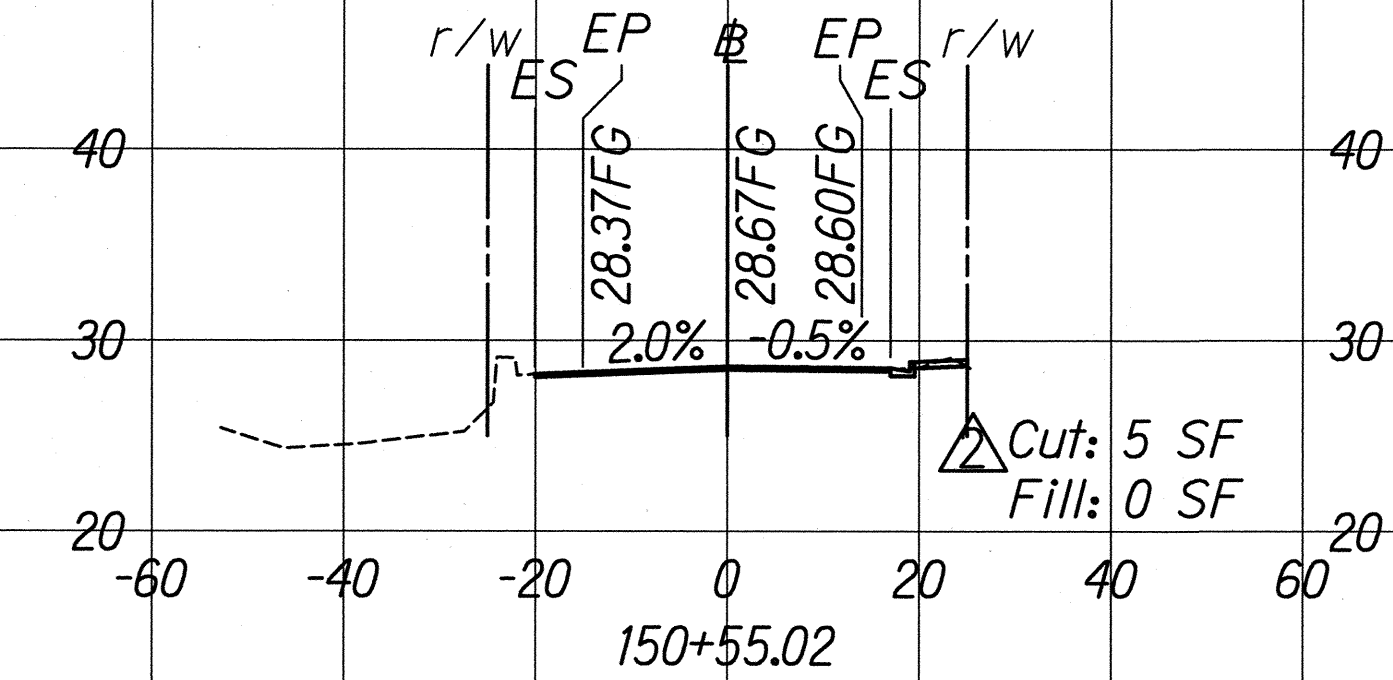
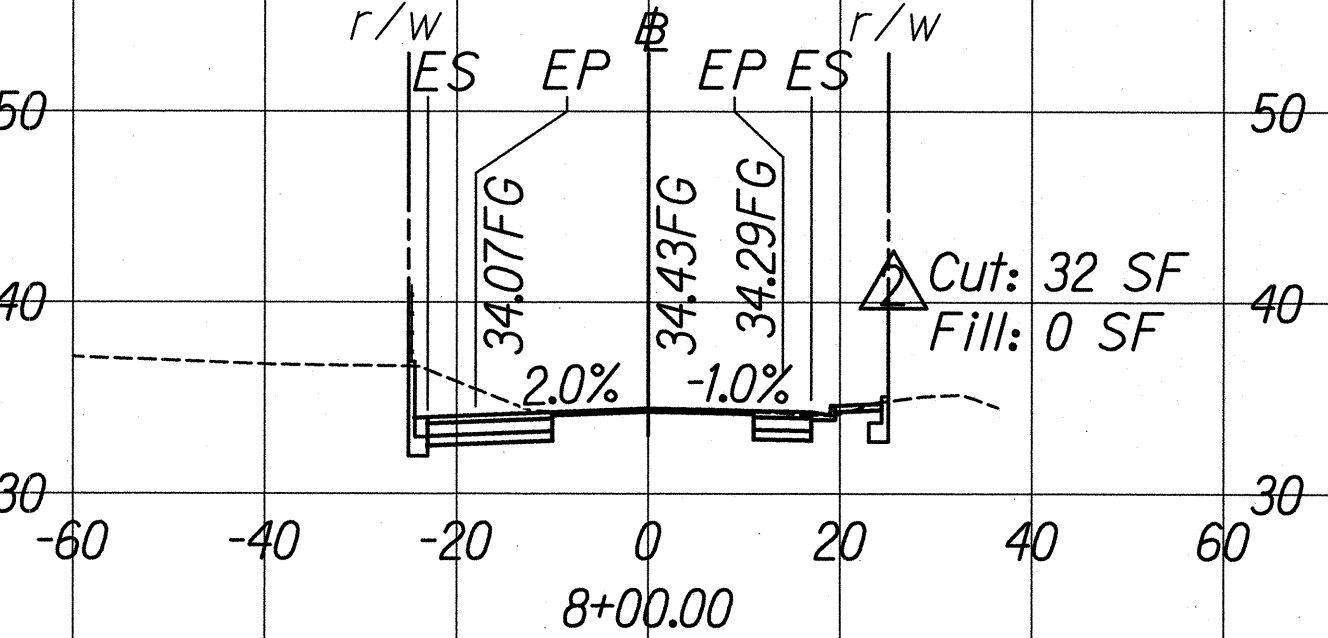
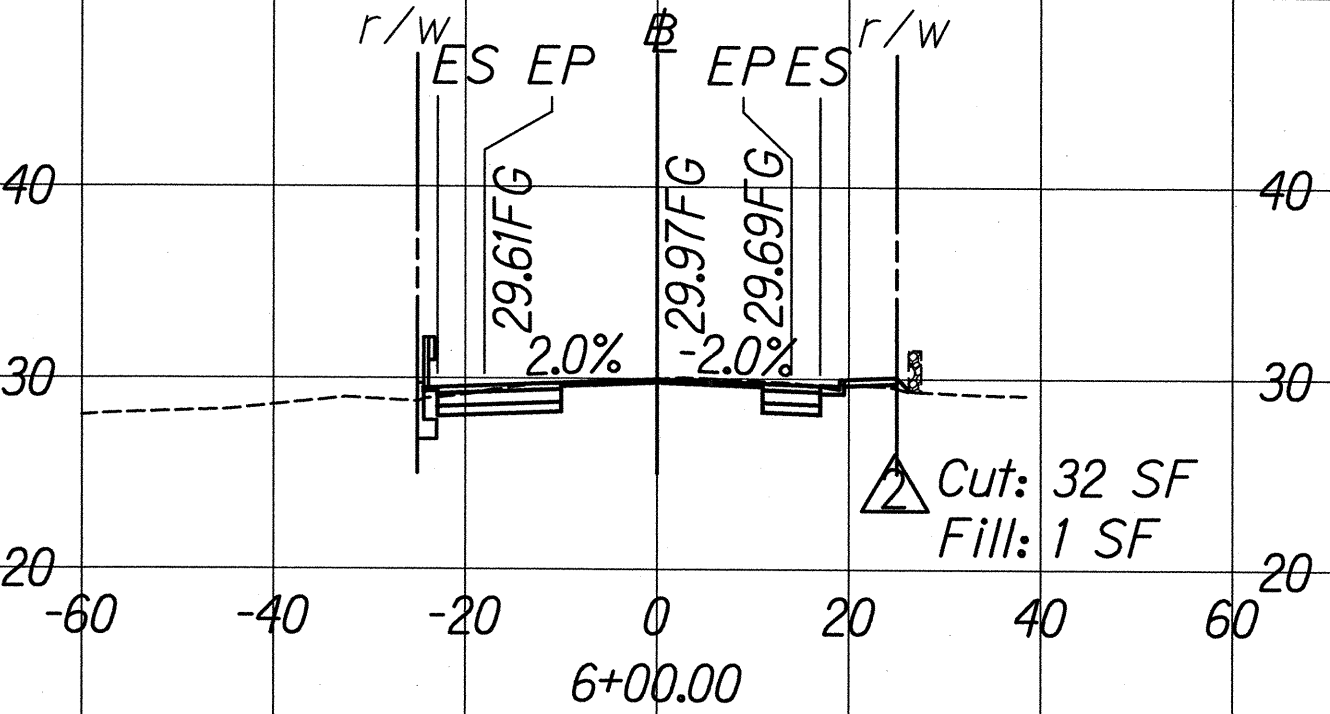
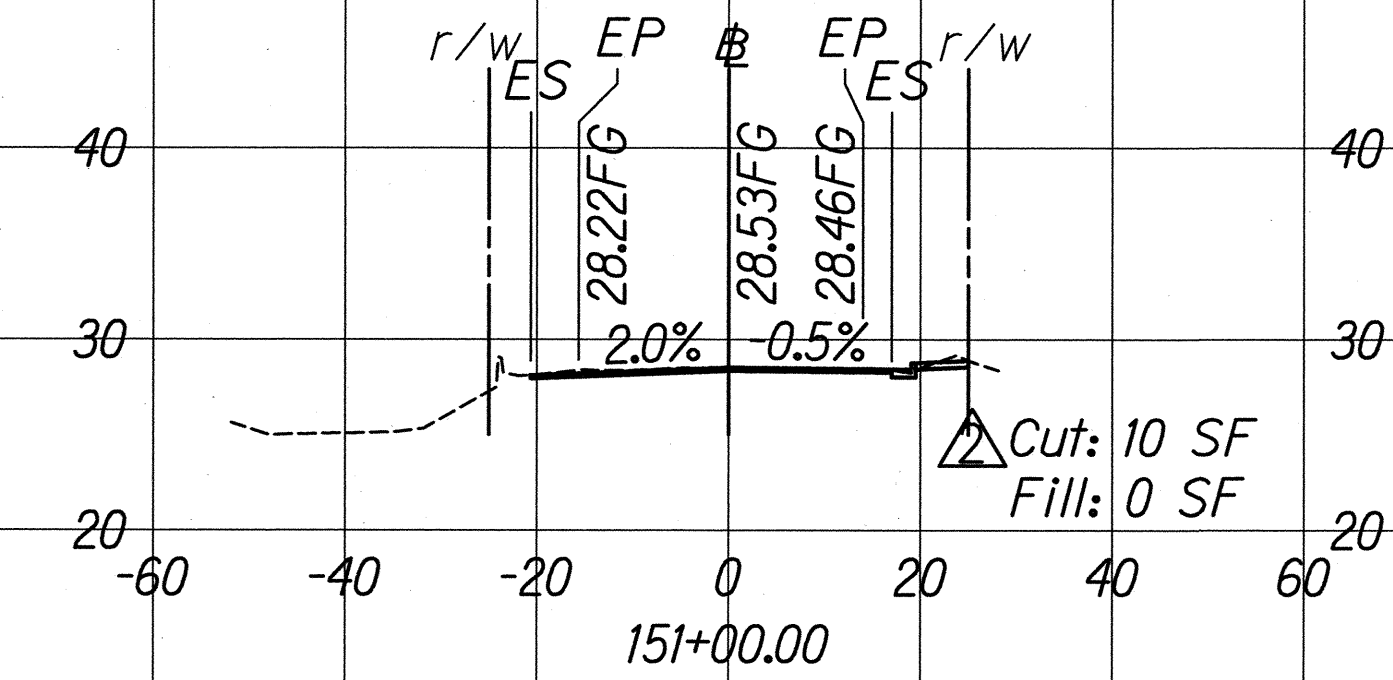


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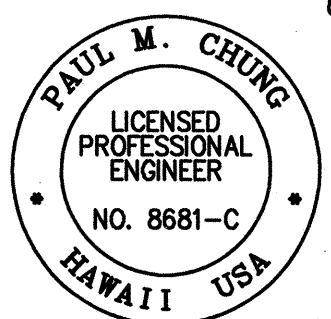
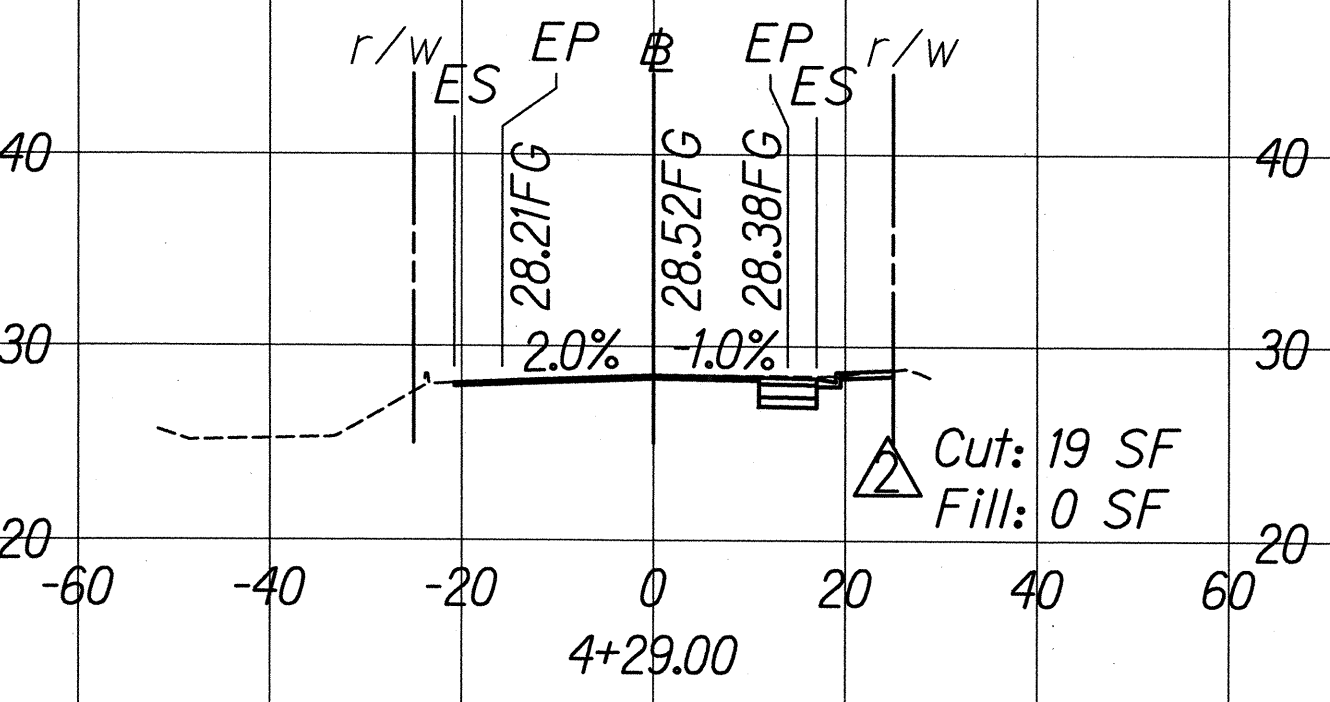
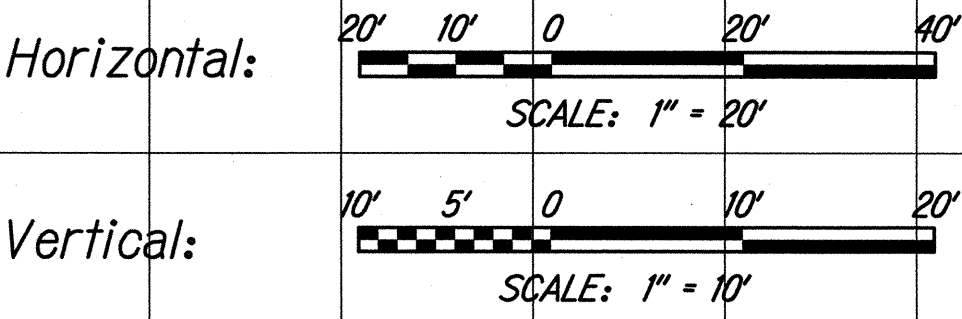
SIGNATURE: [Signature] EXPIRATION DATE OF THE LICENSE: 04/30/16

10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 2	OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 113	117



GRAPHICAL SCALES:



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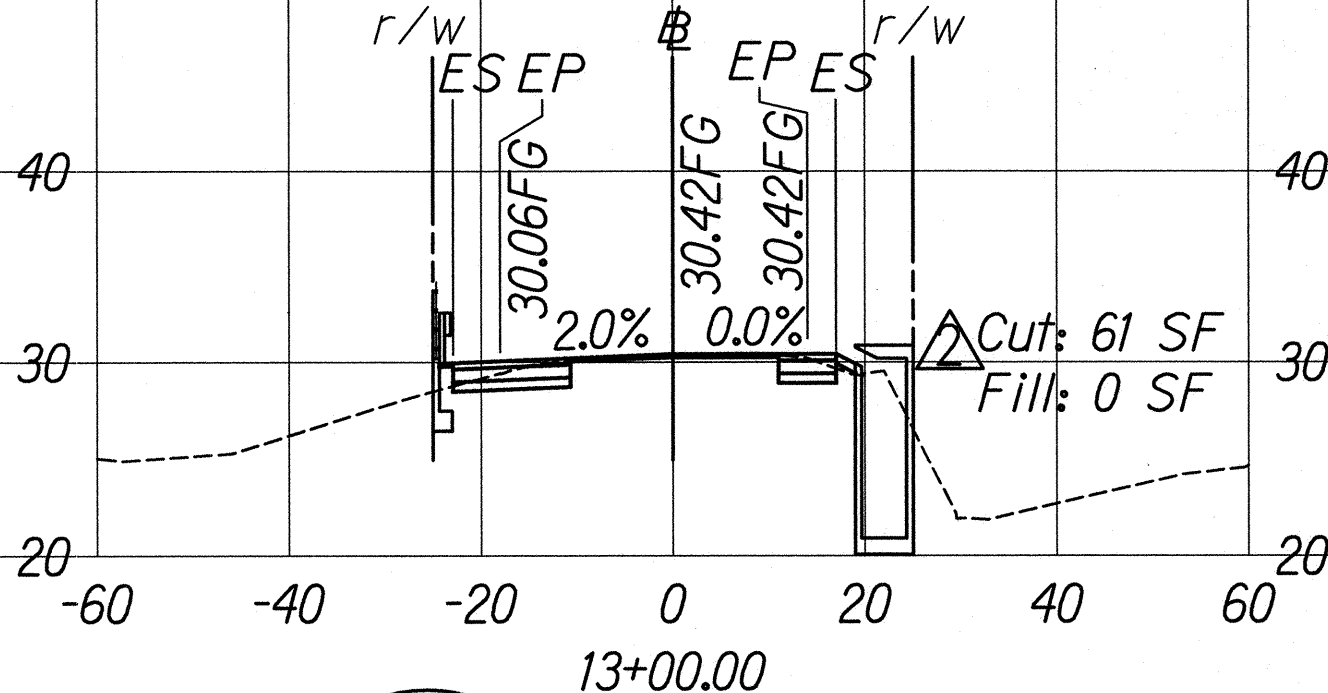
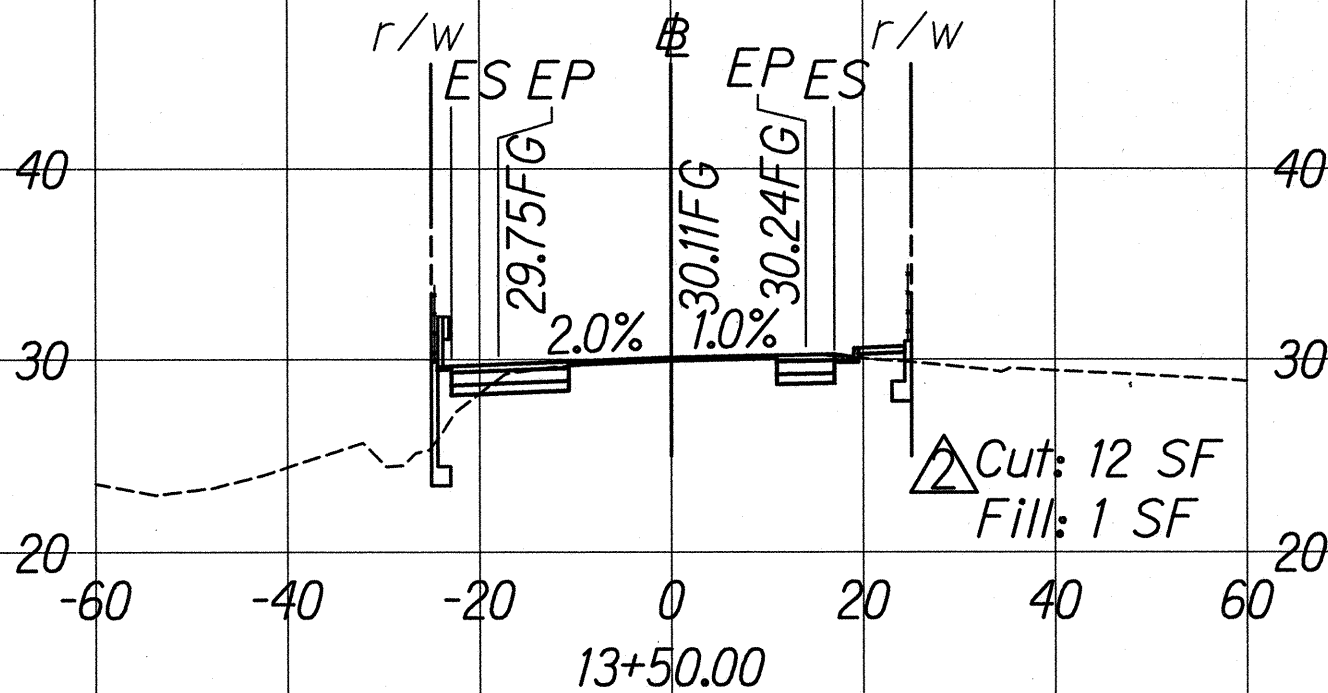
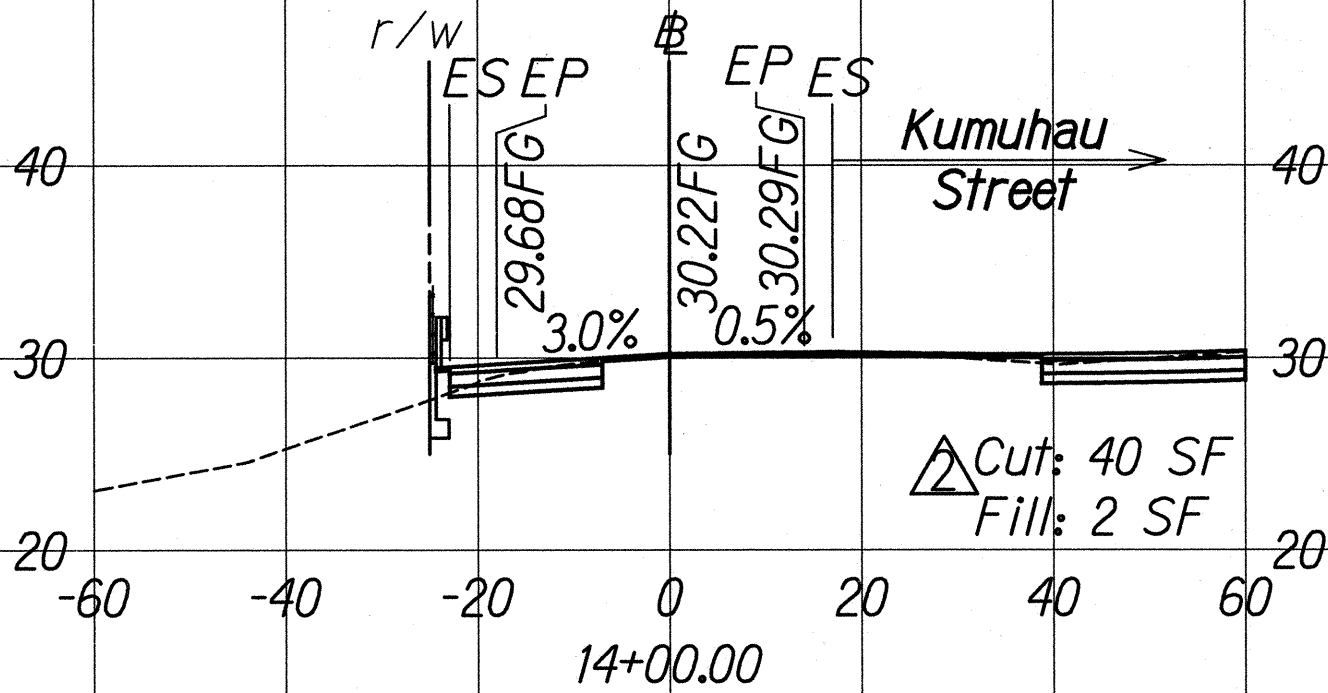
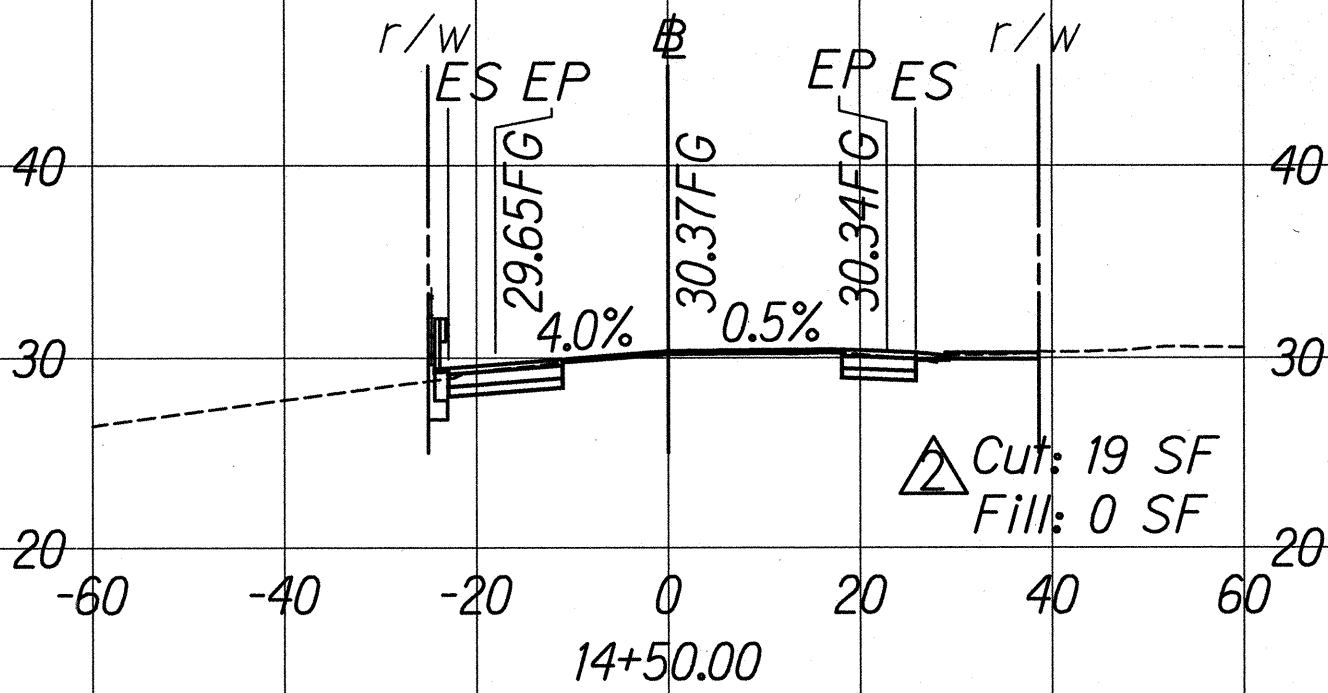
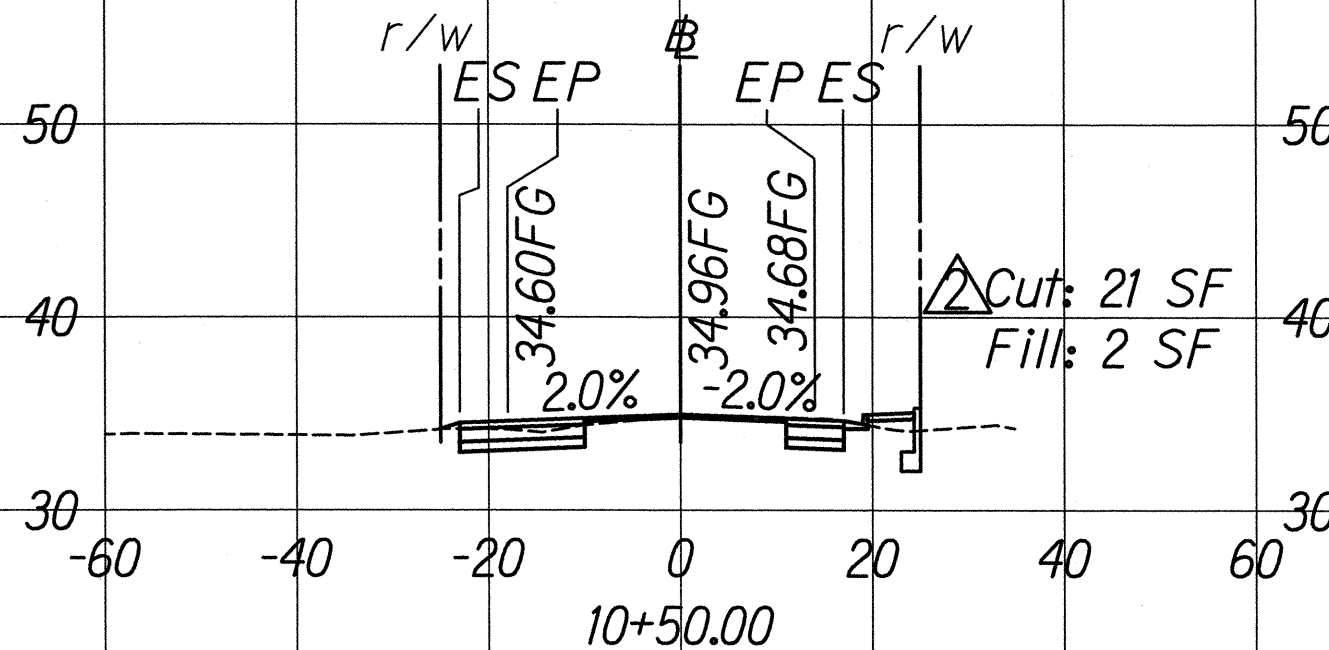
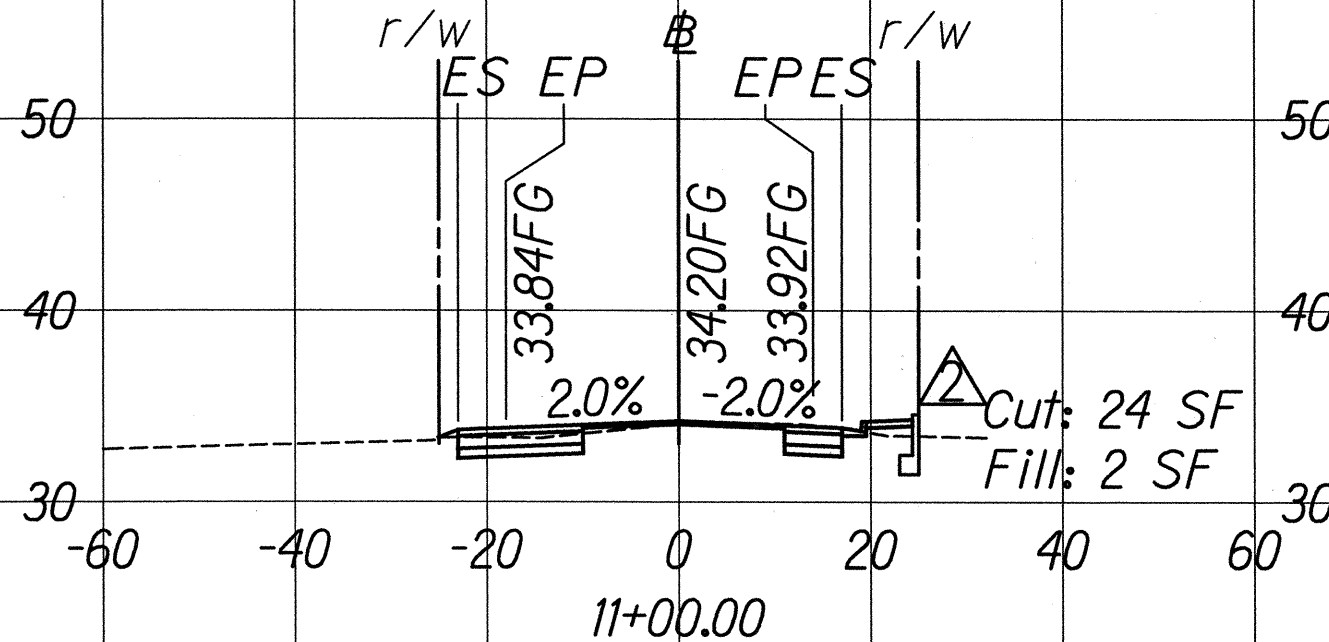
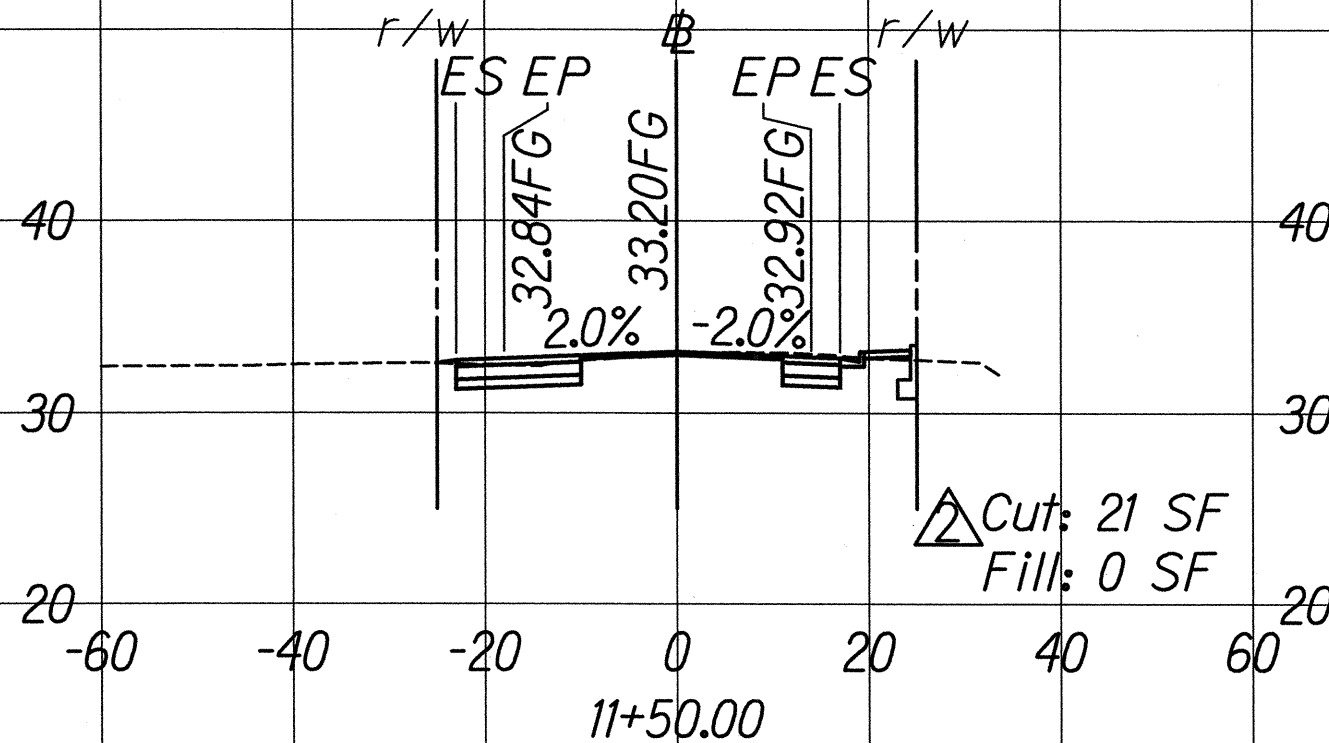
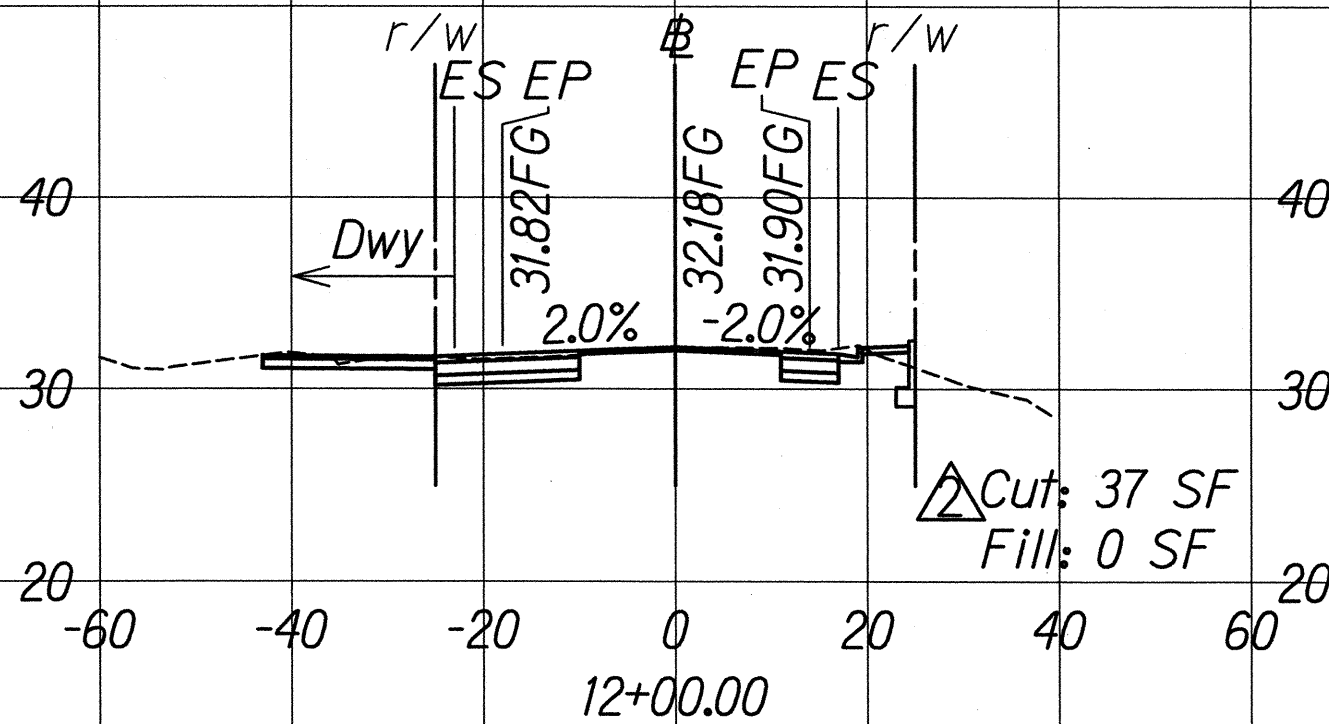
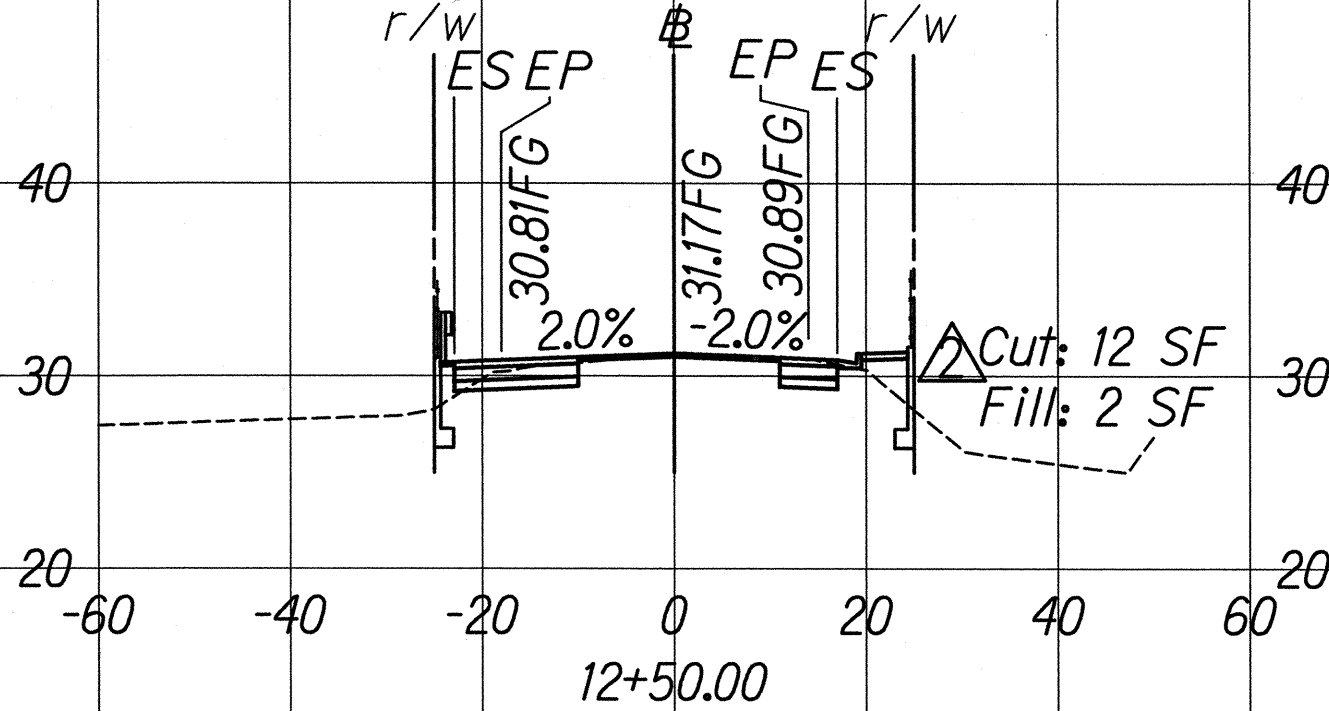
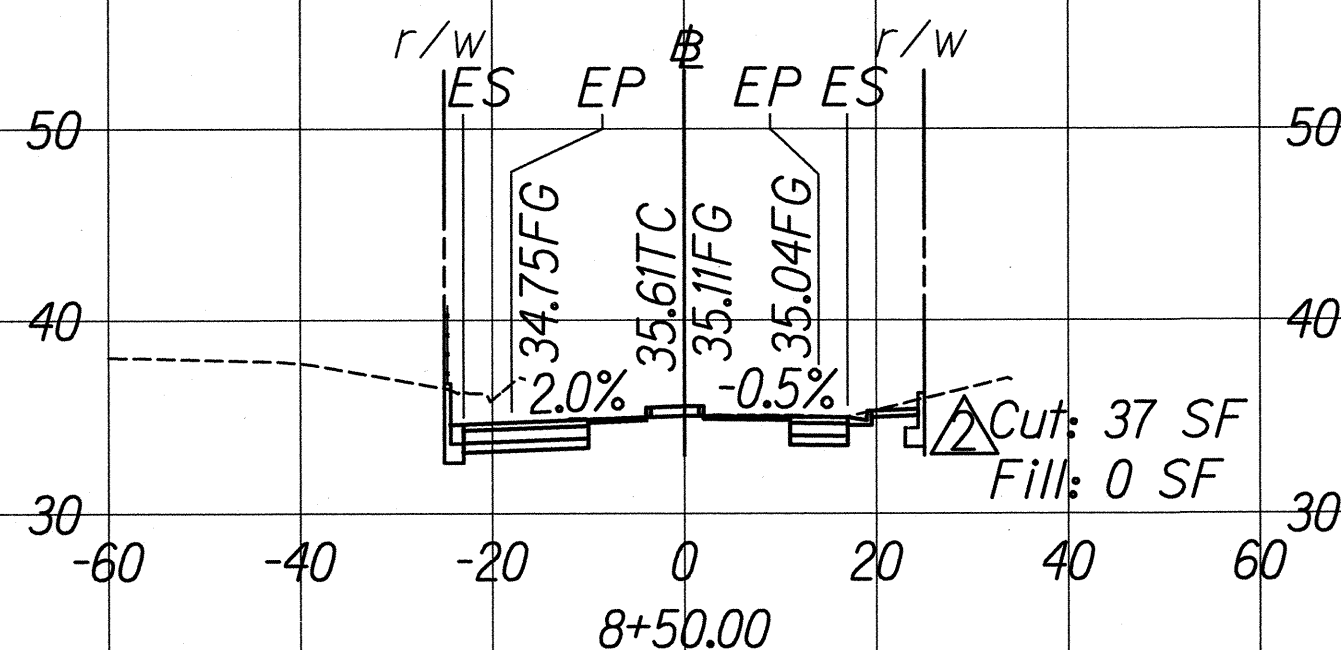
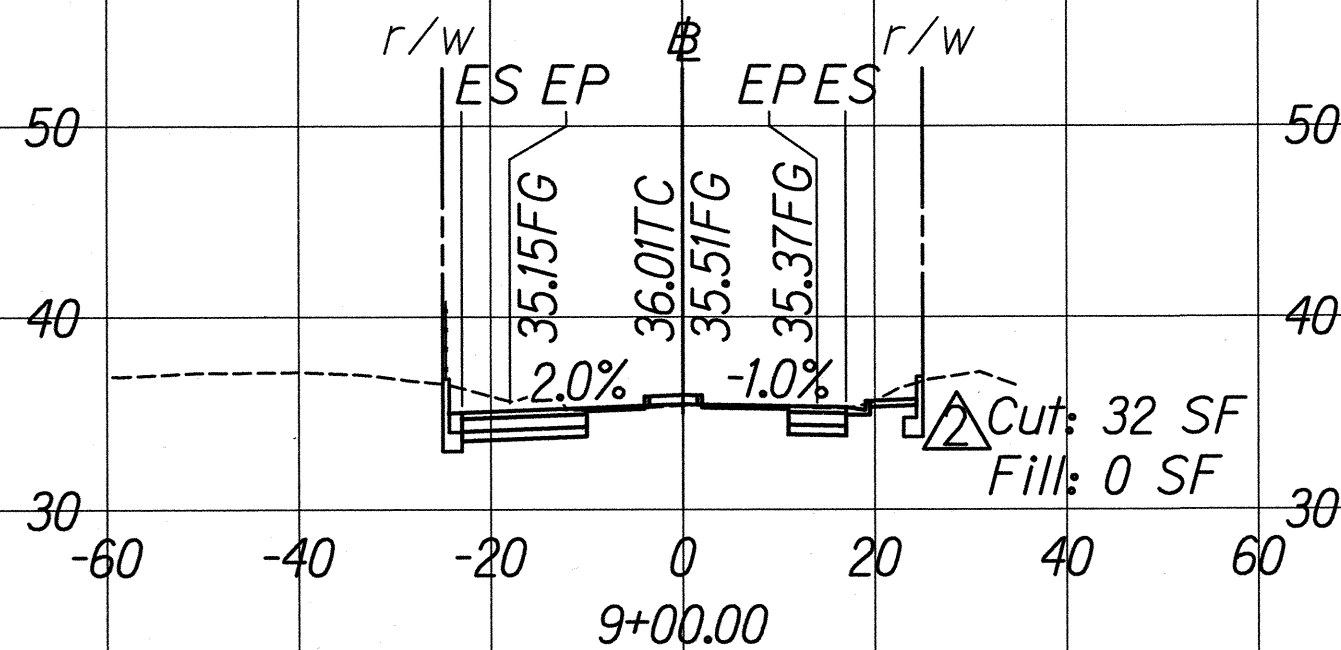
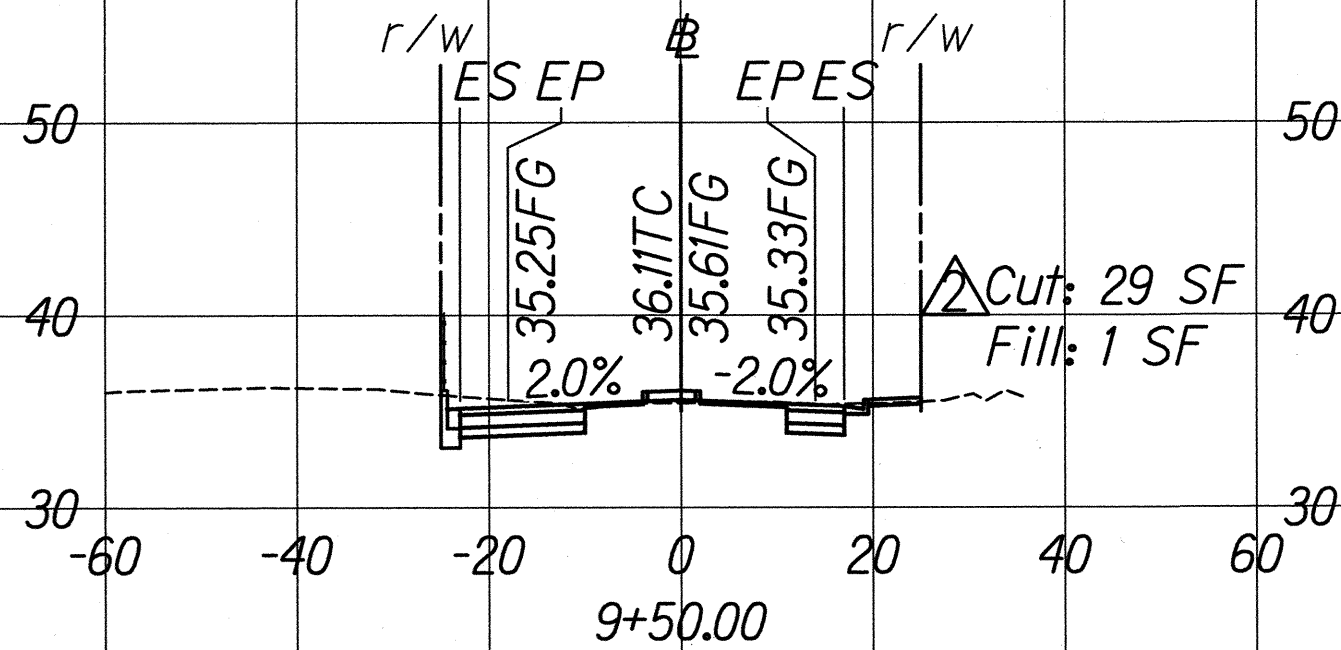
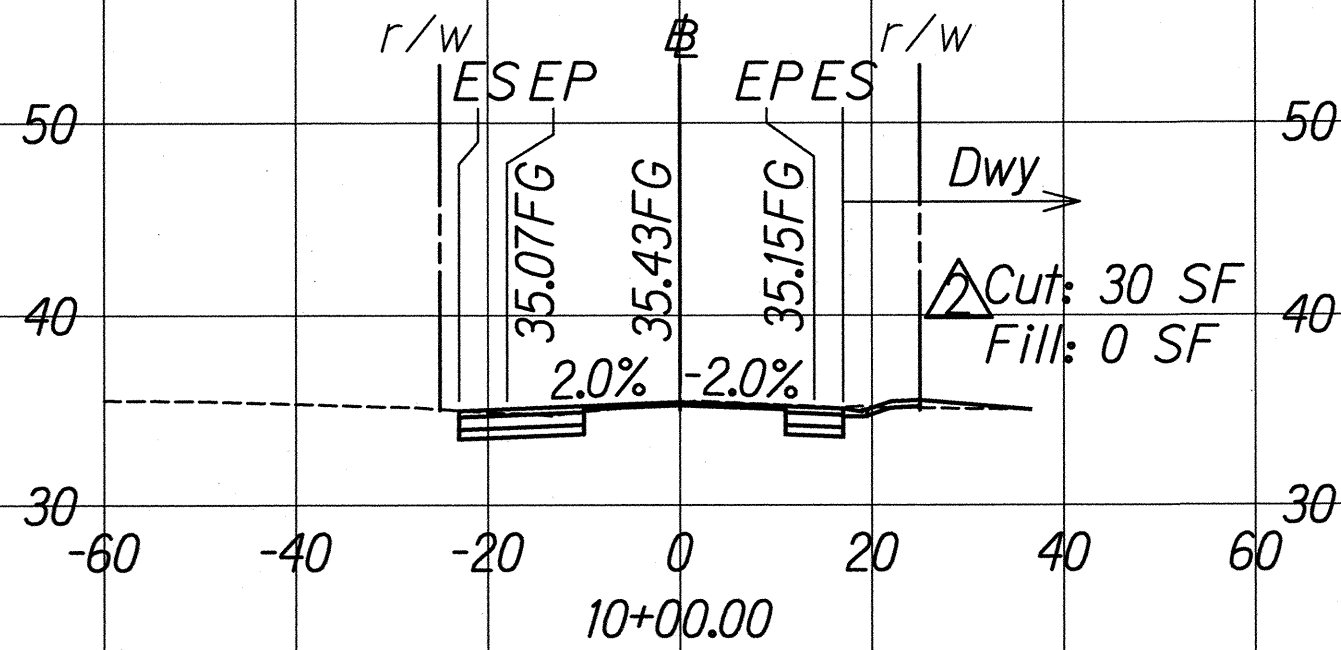
SIGNATURE: *Paul M. Chung* EXPIRATION DATE OF THE LICENSE: 04/30/16

10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 3	OF 7 SHEETS

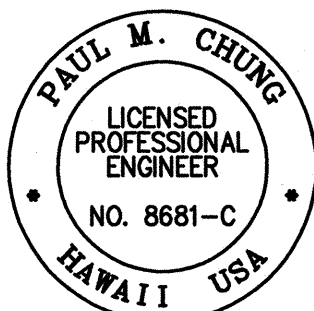
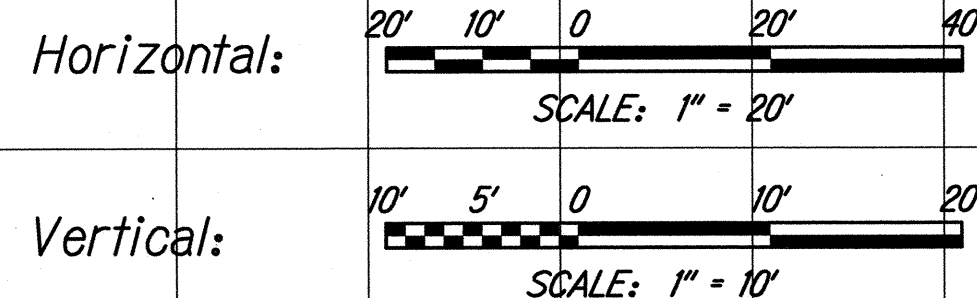
W:\CIVIL 3D PROJECTS\2008_008_000 DOT-HWY KAL HWY IMP WAIMANALO PH \113-03 - ROAD CROSS SECTION.DWG 10/23/2015 10:16 AM

ORIGINAL PLAN	DATE
NO. 1	10/23/15
NO. 2	10/23/15
NO. 3	10/23/15
NO. 4	10/23/15
NO. 5	10/23/15
NO. 6	10/23/15
NO. 7	10/23/15
NO. 8	10/23/15
NO. 9	10/23/15
NO. 10	10/23/15

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 114	117



GRAPHICAL SCALES:

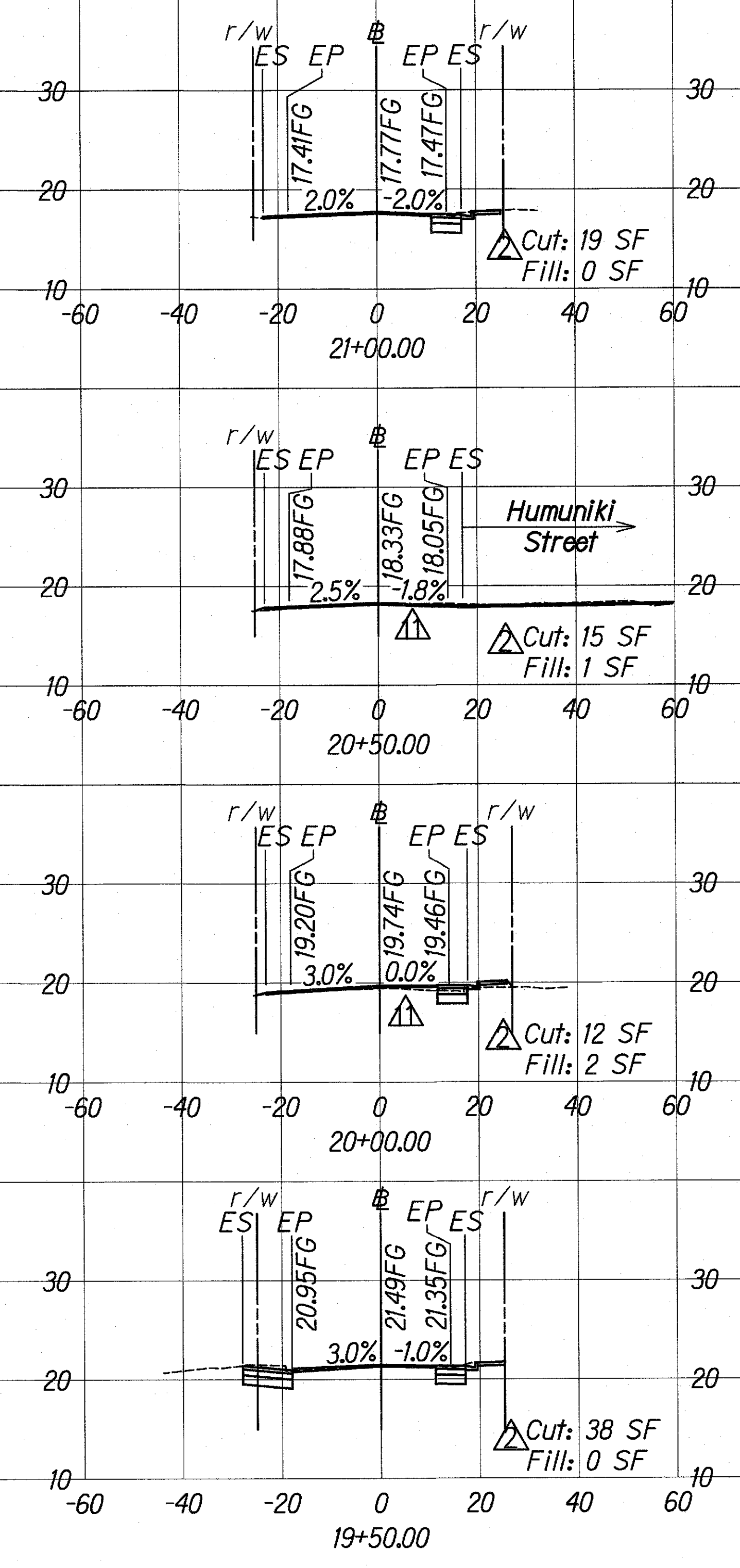
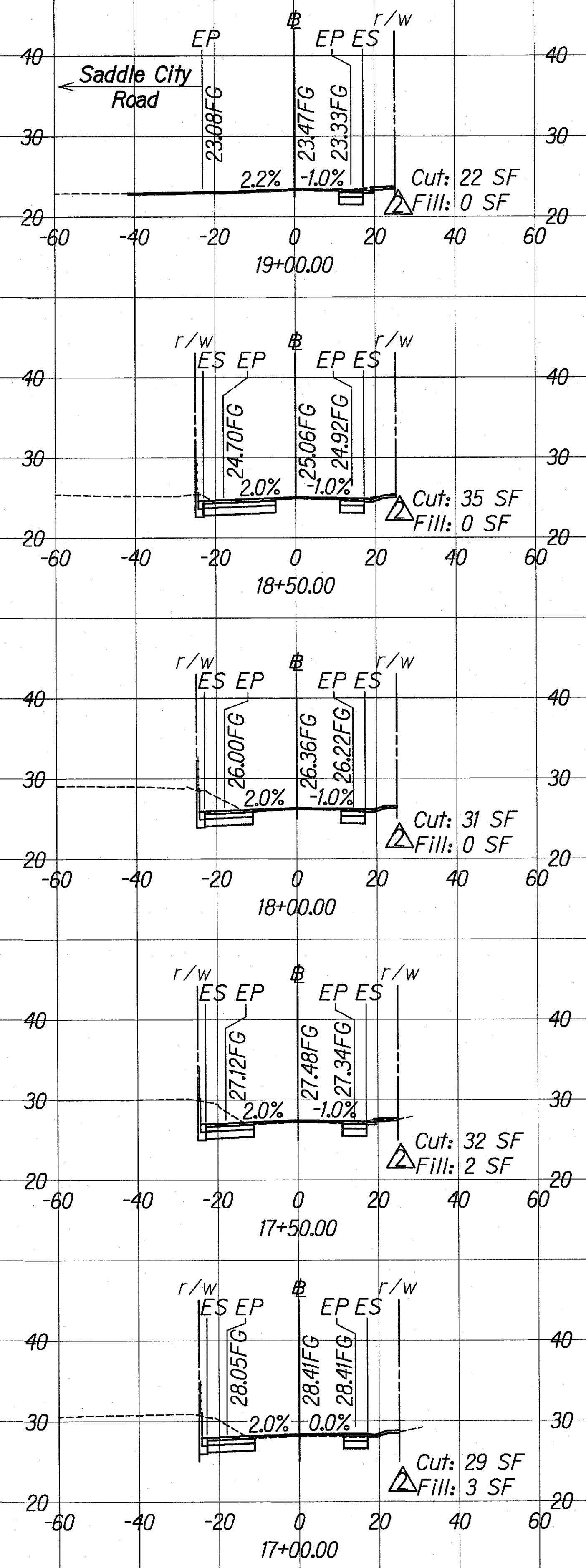
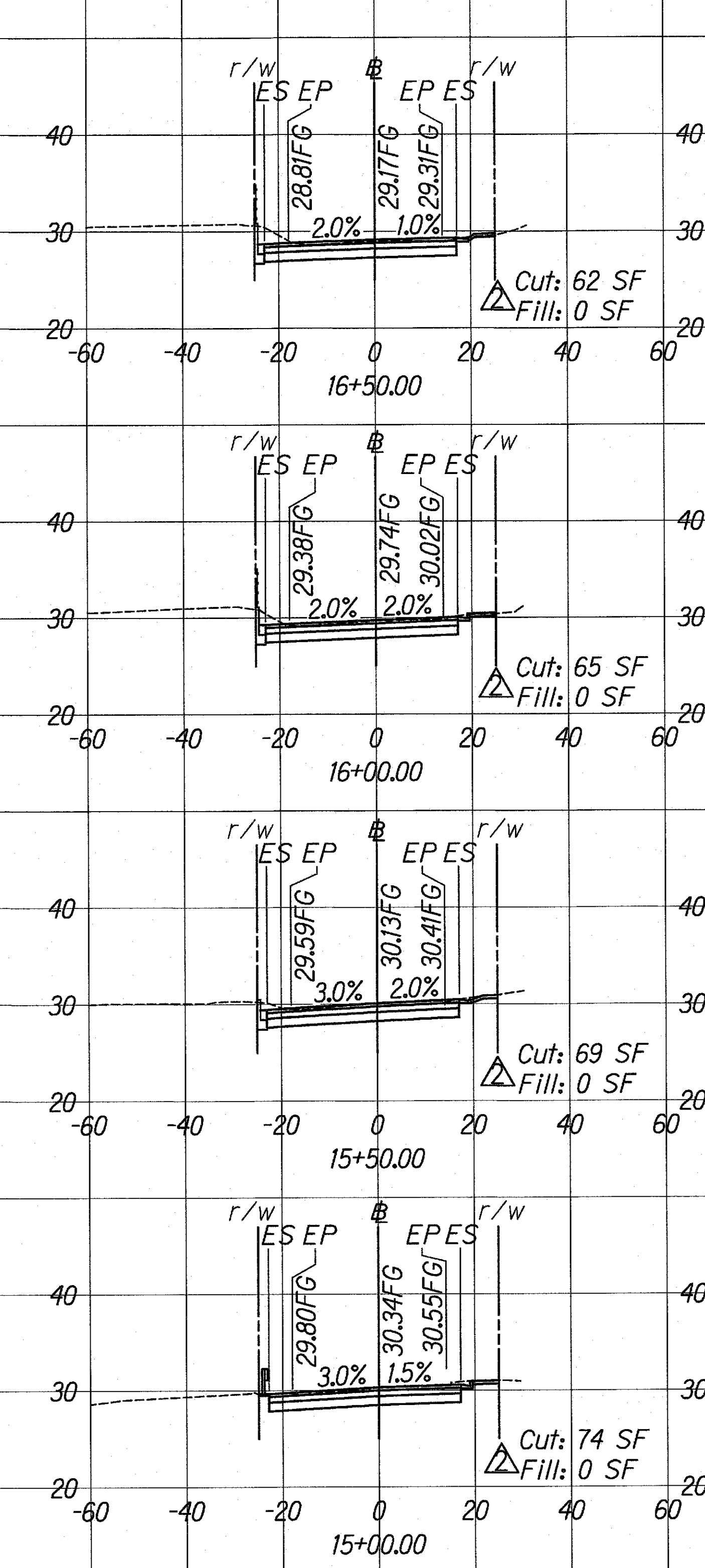


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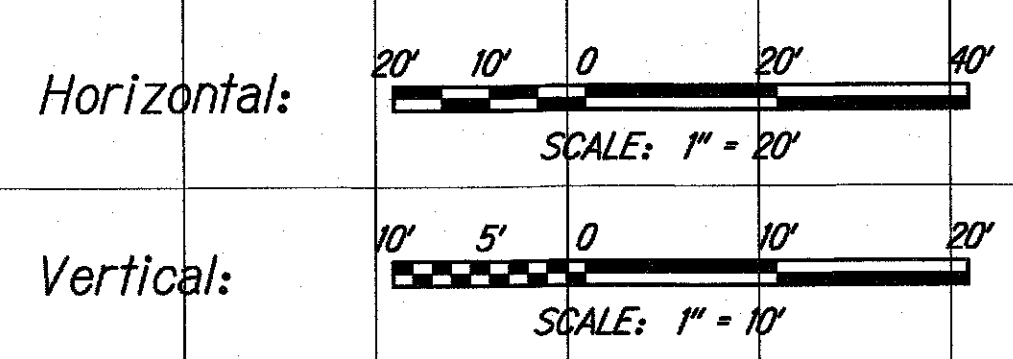
SIGNATURE: [Signature] EXPIRATION DATE OF THE LICENSE: 04/30/16

10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 4	OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 115	117



GRAPHICAL SCALES:



05/10/17	Revised road slopes
10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 5	OF 7 SHEETS

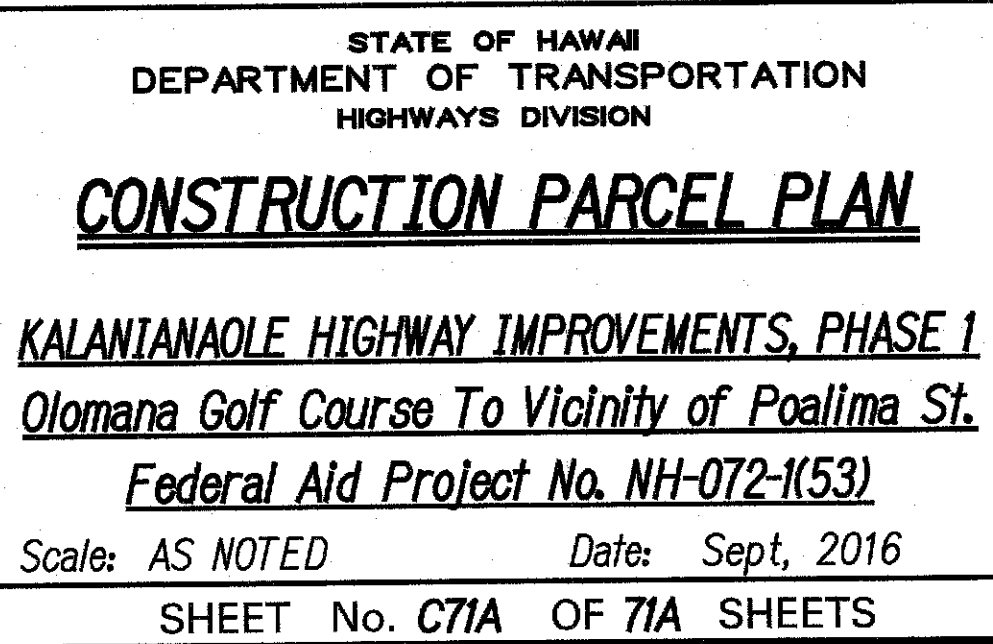
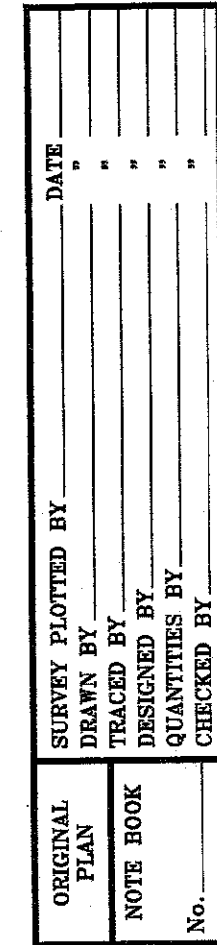
"AS-BUILT"

ADD. 115

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

W:\CIVIL 3D PROJECTS\2008_008_000 DOT-HWY KAL HWY IMP WAIMANALO PH 1\AS BUILT PLANS\CAO\115-05 - ROAD CROSS SECTION.DWG 3/3/2020 8:36 PM

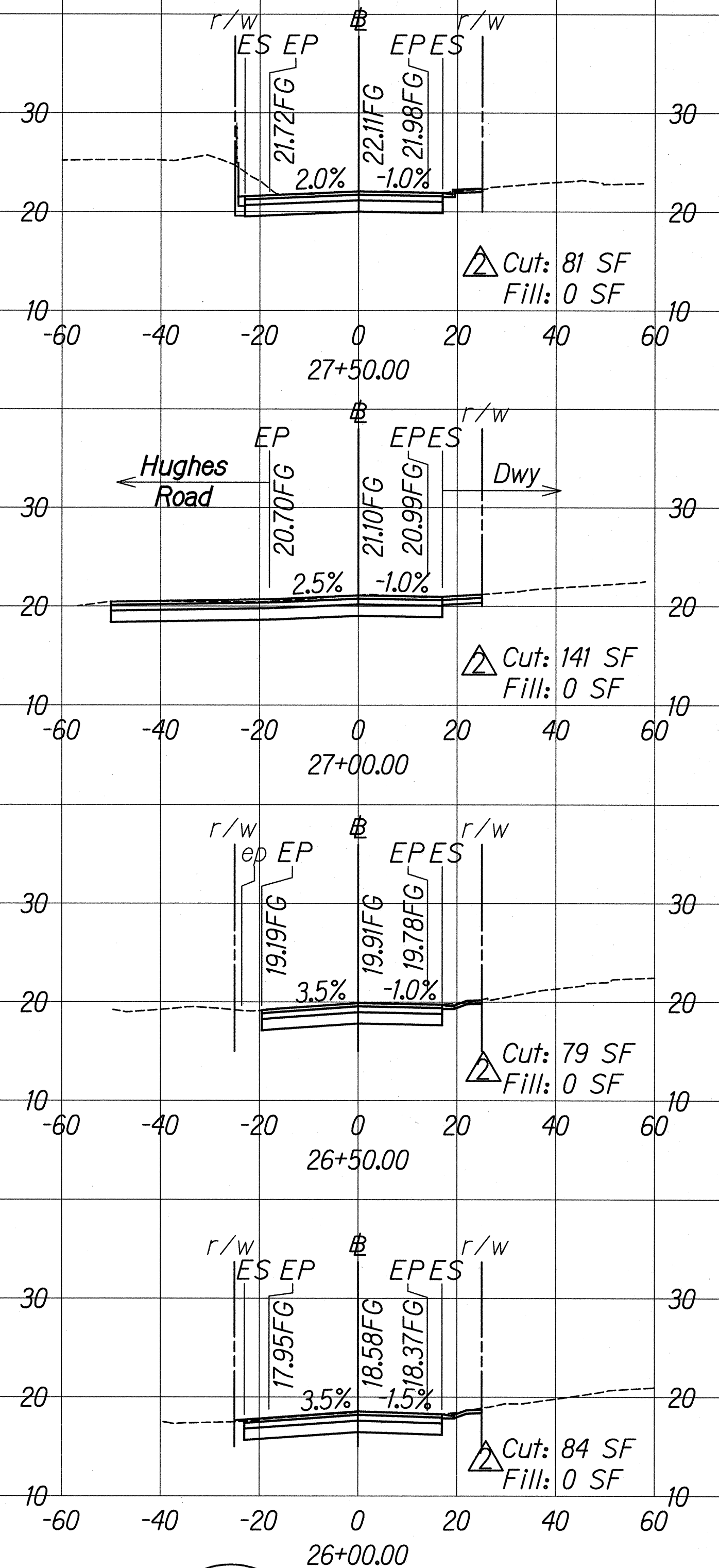
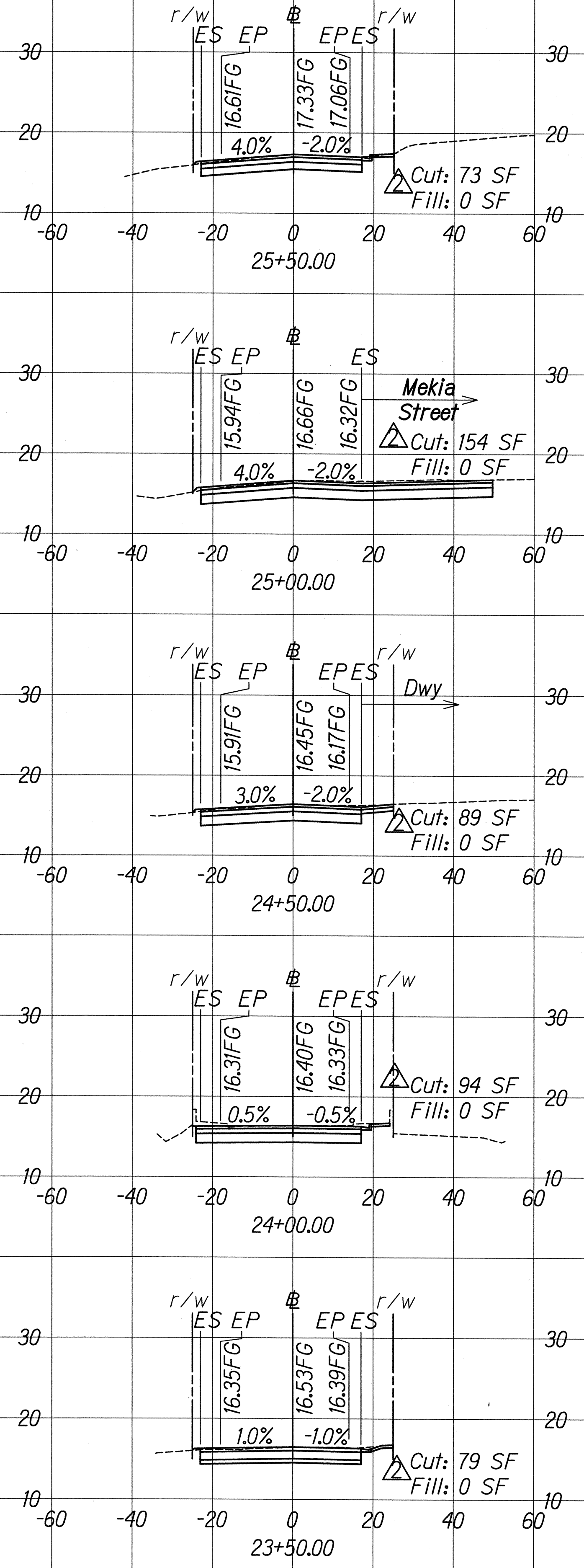
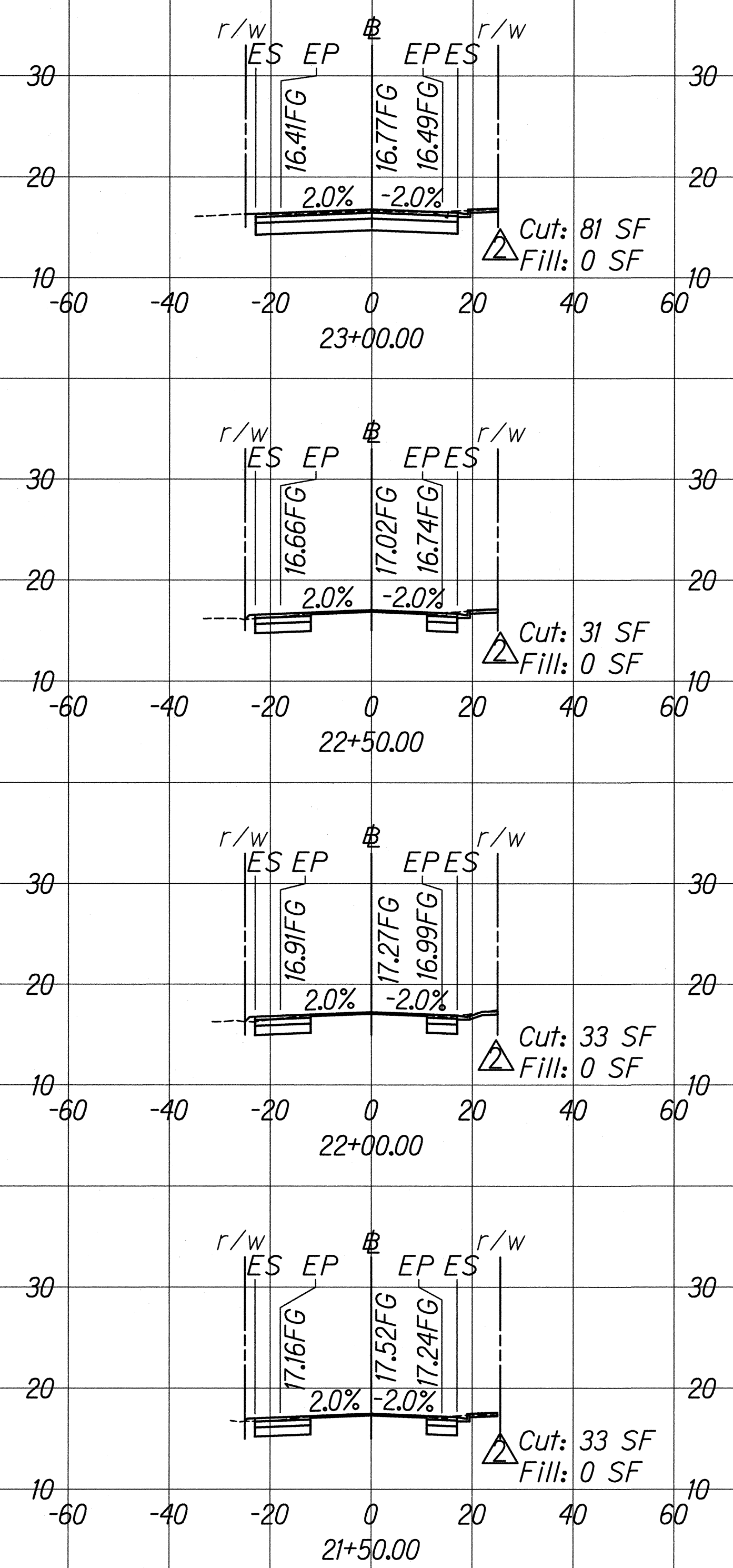
CURVE	(A)	(B)
Δ	20°00'00"	22°32'29"
$\Delta/2$	10°00'00.0"	11°16'14.7"
R	453.00'	303.00'
$Tan.$	79.88'	60.38'
C	157.33'	118.44'
Lc	158.13'	119.21'



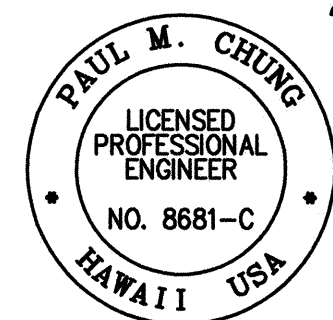
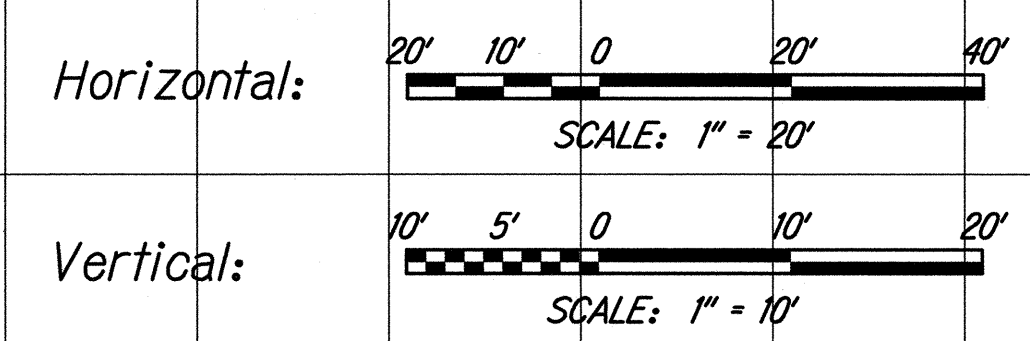
"AS-BUILT"

C.O. 110S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 116	117



GRAPHICAL SCALES:



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

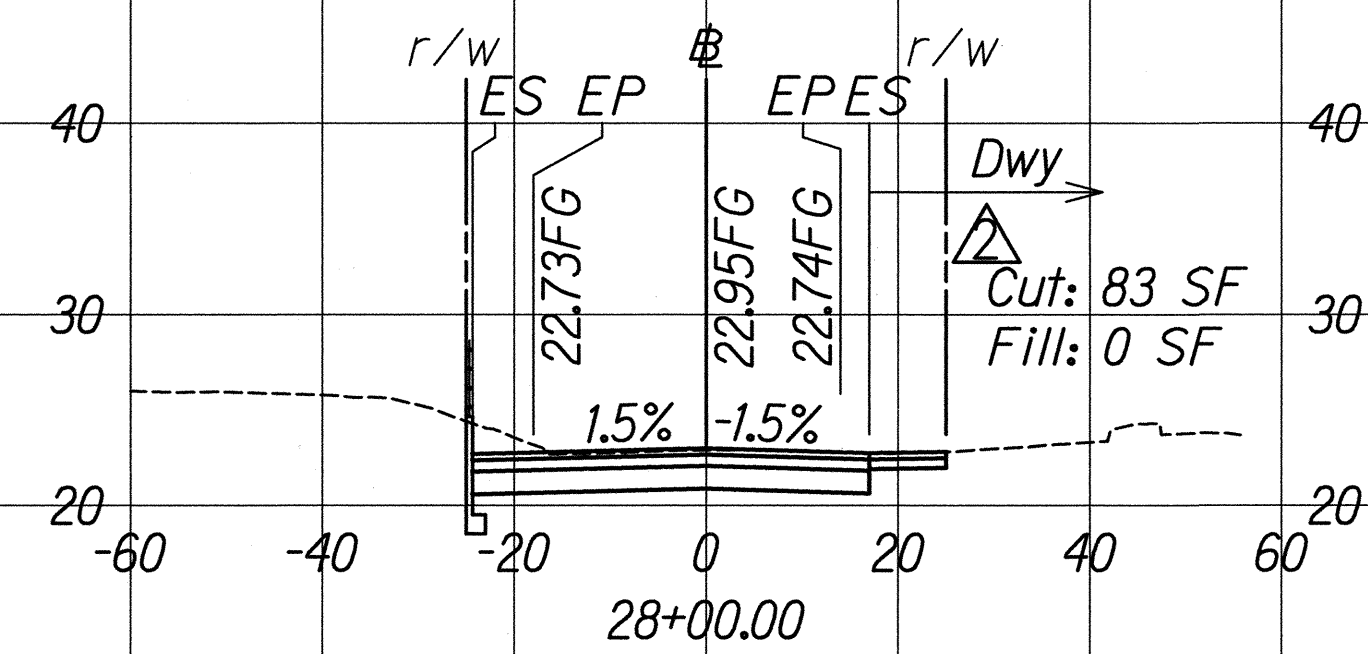
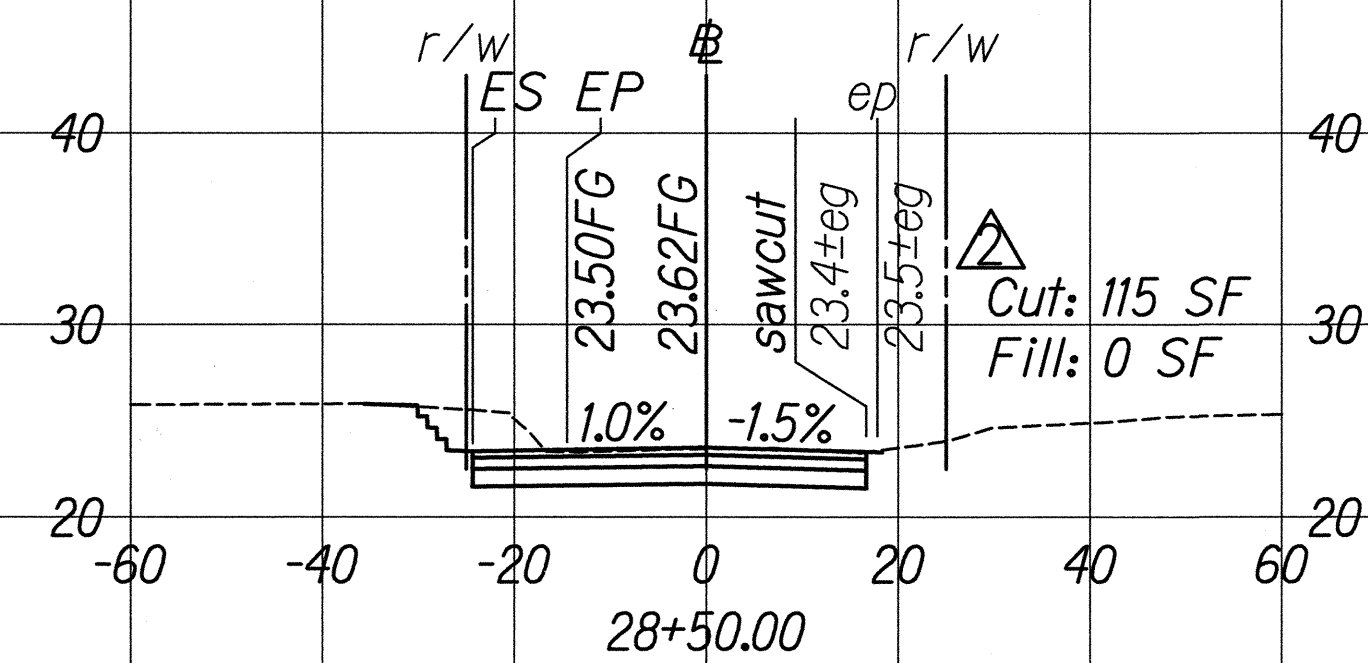
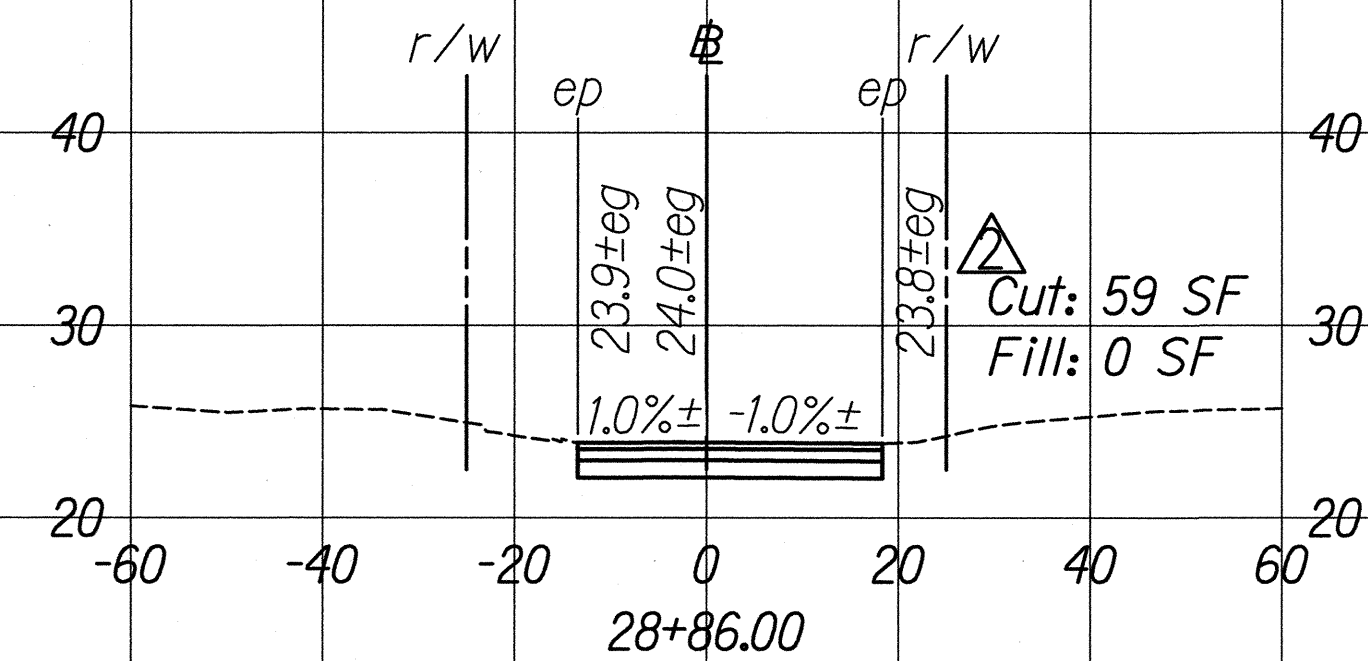
SIGNATURE: [Signature] EXPIRATION DATE OF THE LICENSE: 04/30/16

10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 6	OF 7 SHEETS

W:\CIVIL 3D PROJECTS\2008_008_000 DOT-HWY IMP WAIMANALO PH 1\116-06 - ROAD CROSS SECTION.DWG 10/23/2015 10:24 AM

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

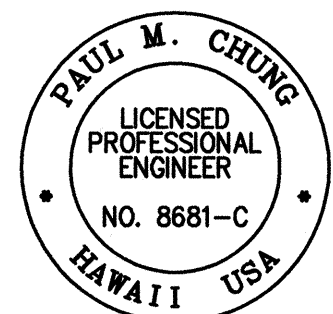
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 117	117



GRAPHICAL SCALES:

Horizontal: 20' 10' 0 20' 40'
SCALE: 1" = 20'

Vertical: 10' 5' 0 10' 20'
SCALE: 1" = 10'



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SIGNATURE

04/30/16
EXPIRATION DATE OF THE LICENSE

10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 7	OF 7 SHEETS

ADD. 117