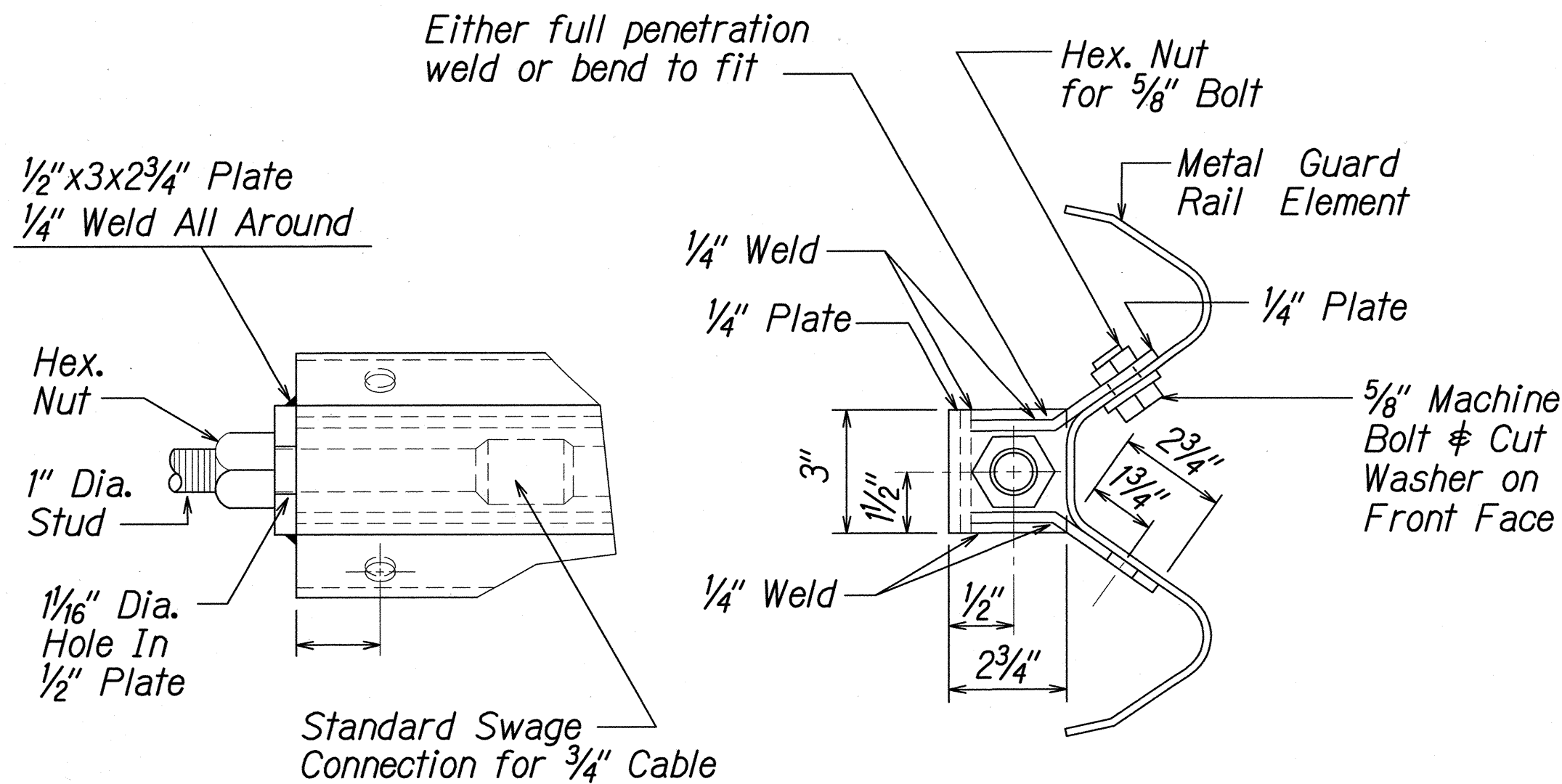
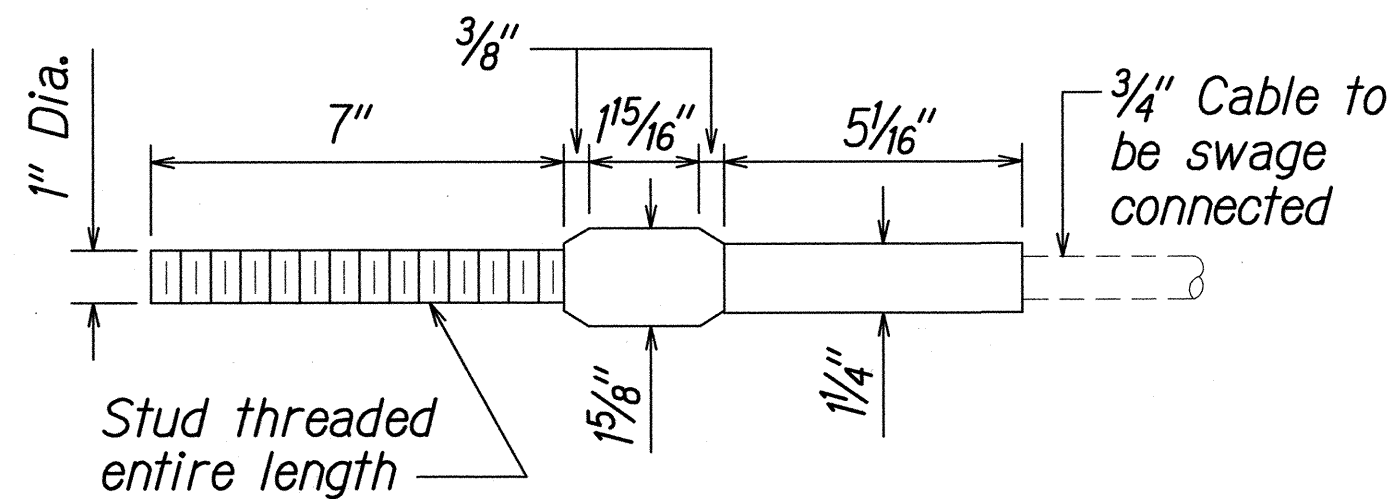


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 22	117



ANCHOR PLATE DETAILS

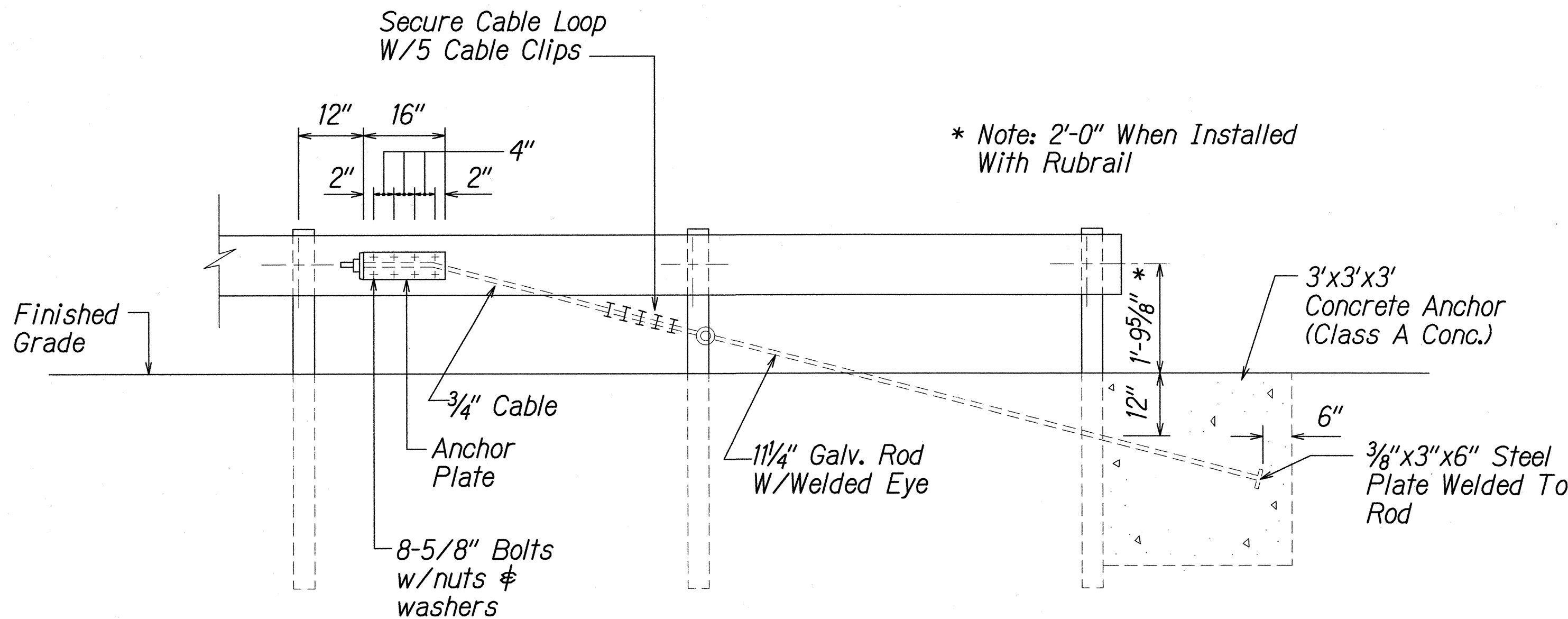
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STANDARD SWAGED FITTING

AND STUD

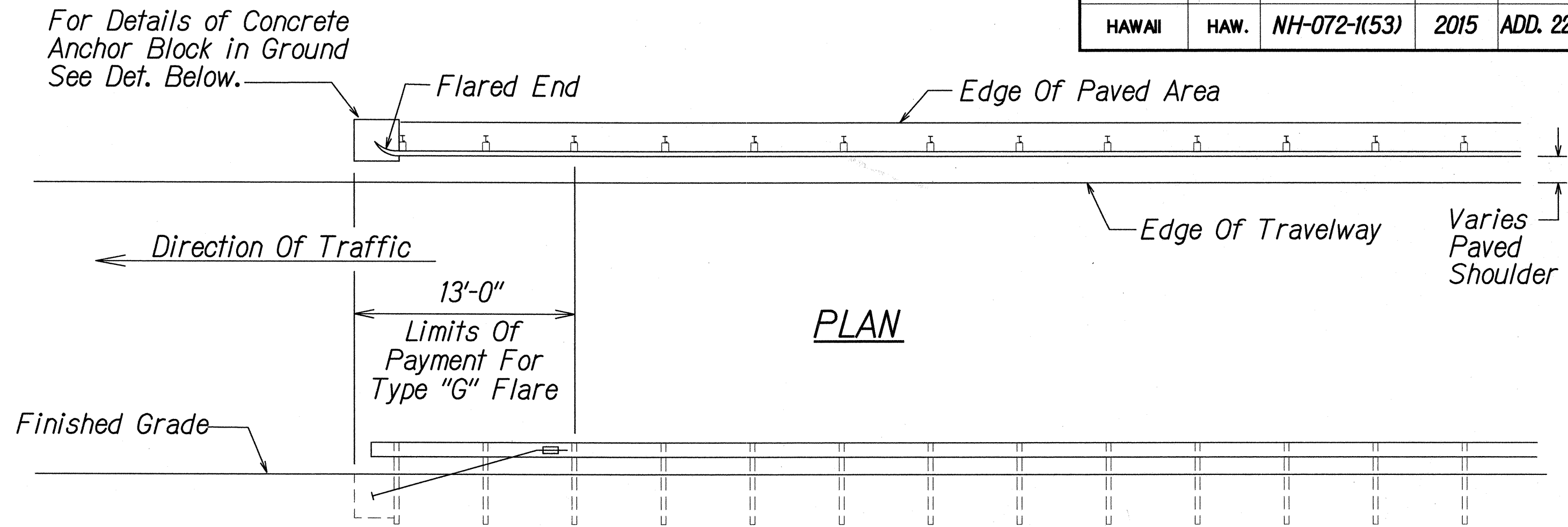
Scale: N.T.S.



ANCHOR BLOCK DETAIL

Scale: N.T.S.

- Concrete, G.R.P., excavation, anchor rod and miscellaneous appurtenances necessary to anchor the guardrail ends shall be incidental to metal guardrail.



ELEVATION

TYPE "G" FLARE END TERMINAL

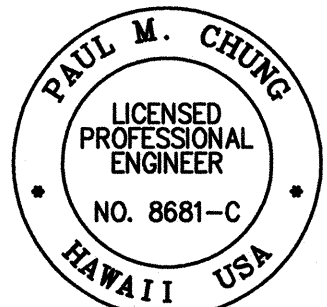
Scale: N.T.S.

NOTE:

During construction, the Contractor shall layout the proposed Type "G" Modified End Terminal and receive approval from the Construction Engineer prior to installation.

DATE	10/23/15
SURVEY PLOTTED BY	PH 1\022 - GUARDRAIL DETAILS TYPE G FLARE END TERMINAL.DWG
DRAWN BY	W:\CIVIL 3D PROJECTS\2008_008_000 DOT-HWY KAL HWY IMP WAIMANALO PH 1\022 - GUARDRAIL DETAILS TYPE G FLARE END TERMINAL.DWG
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

W:\CIVIL 3D PROJECTS\2008_008_000 DOT-HWY KAL HWY IMP WAIMANALO PH 1\022 - GUARDRAIL DETAILS TYPE G FLARE END TERMINAL.DWG 10/23/2015 10:15 AM



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SIGNATURE

04/30/16

EXPIRATION DATE OF THE LICENSE

10/23/15	Revised Type "G" Flare End Terminal note.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION GUARDRAIL DETAILS TYPE G FLARE END TERMINAL KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St. Federal Aid Project No. NH-072-1(53) Scale: AS NOTED Date: July, 2015 SHEET No. C22 OF 71 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 68	117

TRAFFIC SIGN SUMMARY			
SIGN No.	MESSAGE	QUANTITY	
		10 SQ. Ft. OR LESS	
		W/ POST	W/O POST
D10-1	MILEPOST MARKER	2	
D10-7	HIGHWAY ROUTE NUMBER		2
D11-1	BIKE ROUTE	6	
R1-1	STOP	6	
R2-1(25)	SPEED LIMIT (25)	7	
R3-8LR	ADVANCED LANE CONTROL SIGN (LEFT AND RIGHT TURN ONLY)		1
R3-9b	TWO-WAY LEFT TURN	10	
R3-9cP	BEGIN (ON TOP OF TWO-WAY LEFT TURN SIGN)		4
R3-9dP	END (ON TOP OF TWO-WAY LEFT TURN SIGN)		4
R3-17aP	AHEAD (BELOW BIKE ROUTE SIGN)		2
R3-17bP	ENDS (BELOW BIKE ROUTE SIGN)		2
R8-3	NO PARKING	13	
W1-2(L)	CURVE SIGN (LEFT)	2	
W1-2(R)	CURVE SIGN (RIGHT)	1	
W1-8(L)	CHEVRON SIGN (LEFT)	4	
W1-8(R)	CHEVRON SIGN (RIGHT)	 4	
W2-2(L)	90° SIDE ROAD SIGN (LEFT)	1	
W2-2(R)	90° SIDE ROAD SIGN (RIGHT)	1	
W11-2	PEDESTRIAN CROSSING	4	
W16-7P	DIAGONAL ARROW POINTING SOUTHWEST		2
W16-8P	ADVANCE STREET NAME SIGN		2
W16-9P	AHEAD		2
M1-6(72)	ROAD MARKERS (72)	2	
	MESSAGE (BRIDGE)		4
EXISTING SIGNS			
R7-107b	BUS STOP WITH NO STOPPING SIGNS	2	5
	STREET NAME SIGN		10

NOTE:
CONTRACTOR SHALL INSTALL OBJECT MARKERS ON ALL TREES AND UTILITY POLES THAT ARE WITHIN THE STATE HIGHWAY RIGHT-OF-WAY.

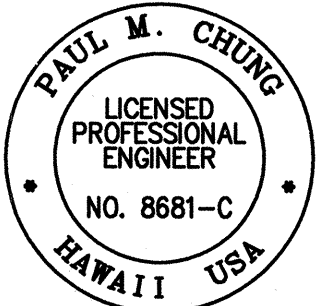
PAVEMENT MARKING SUMMARY	
DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE C _____	198 EA
TYPE D _____	124 EA
TYPE F _____	4 EA
TYPE H _____	152 EA
TYPE J _____	250 EA
TAPE - TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH GUIDE LINES (WHITE) _____	1114 LF
8-INCH PAVEMENT STRIPE (WHITE) _____	5964 LF
4-INCH PAVEMENT STRIPE (YELLOW) _____	2033 LF
TAPE - TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE) _____	1730 LF
8-INCH PAVEMENT STRIPE (WHITE) _____	42 LF
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) _____	3109 LF
TAPE - TYPE III OR THERMOPLASTIC EXTRUSION	
CROSSWALK MARKINGS _____	22 LANES
PAVEMENT ARROWS _____	36 EA
12-INCH PAVEMENT STRIPE (WHITE) _____	161 LF
12-INCH PAVEMENT STRIPE (YELLOW) _____	155 LF

OBJECT MARKER SUMMARY		
TYPE	QUANTITY	
	W/ POST	W/O POST
 TYPE II OBJECT MARKER		
OM2-2H		25
TYPE III OBJECT MARKER		
OM3-1(L)	4	
OM3-1(R)	4	
RM-2 (Yellow)	1	1
RM-3	2	
TOTAL	11	26

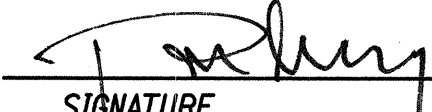
10/23/15  Revised W1-8(R) quantity & added Type II OM.

DATE REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
STRIPING AND SIGNAGE SUMMARY
KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St. Federal Aid Project No. NH-072-1(53)
Scale: AS NOTED Date: July, 2015
SHEET No. C68 OF 71 SHEETS



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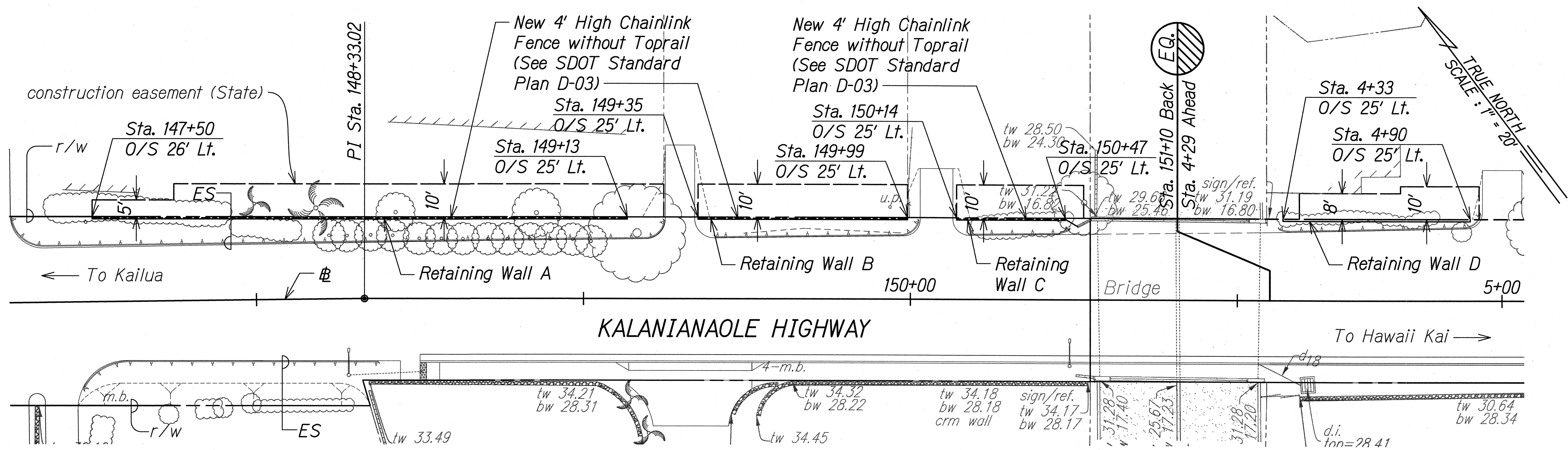

SIGNATURE

04/30/16
EXPIRATION DATE OF THE LICENSE

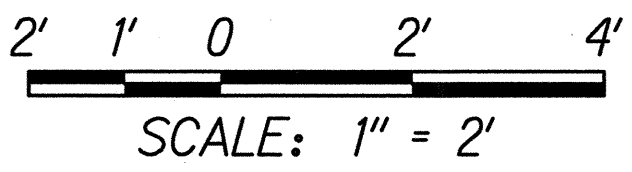
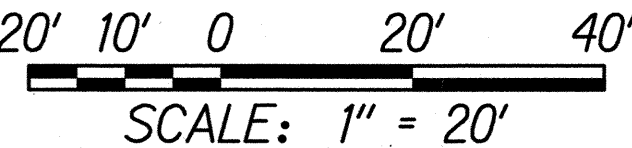
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 99	117

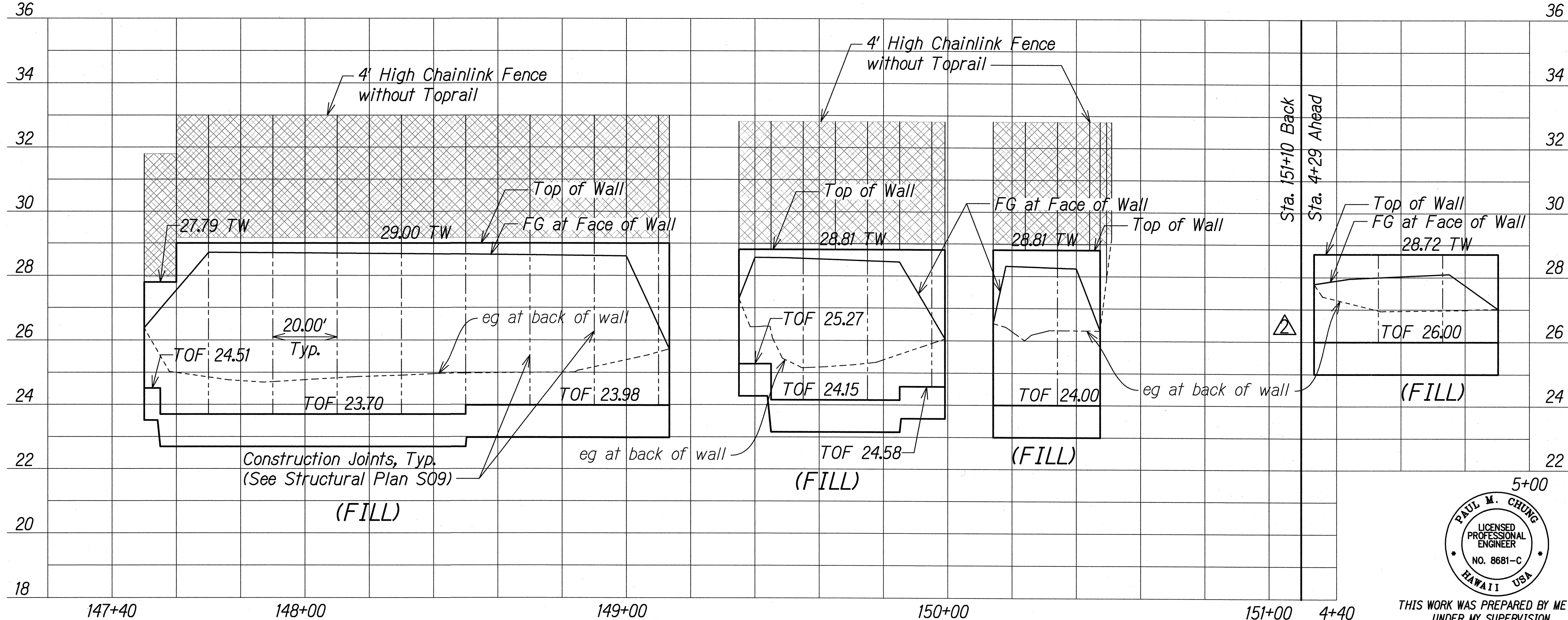
NOTE:
For reinforcements and other wall details, See Structural Plans S08 to S09.



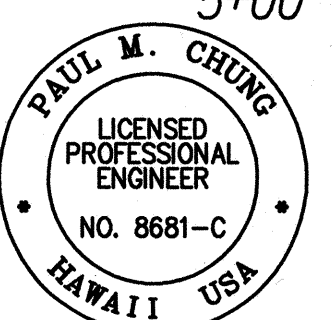
GRAPHICAL SCALES:



PLAN
SCALE: 1" = 20'



PROFILES A, B, C & D
Scale: Horiz. 1" = 20'
Vert. 1" = 2'



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SIGNATURE

04/30/16
EXPIRATION DATE OF THE LICENSE

10/23/15	Revised Retaining Wall Footing Elevation
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RETAINING WALLS A, B, C & D PLAN AND PROFILE KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St. Federal Aid Project No. NH-072-1(53) Scale: AS NOTED Date: July, 2015 SHEET No. S01 OF 9 SHEETS	

ADD. 99

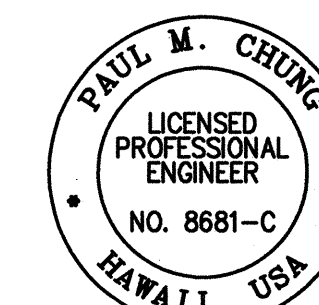
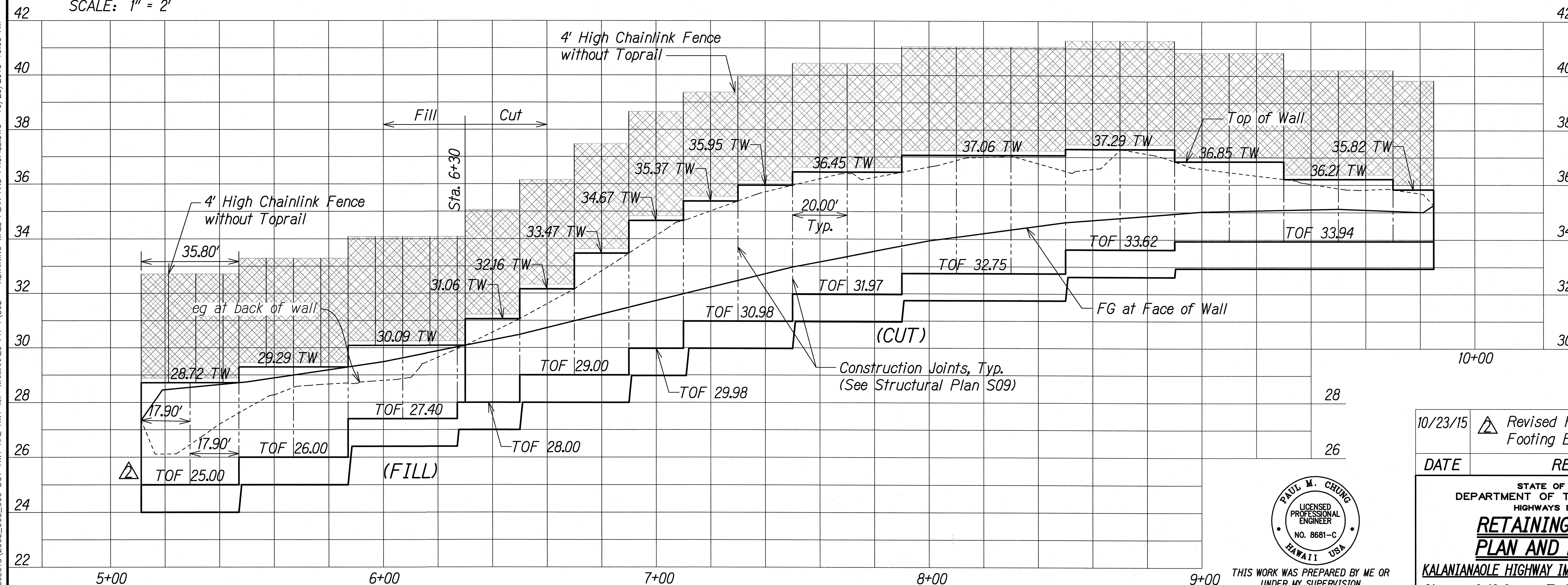
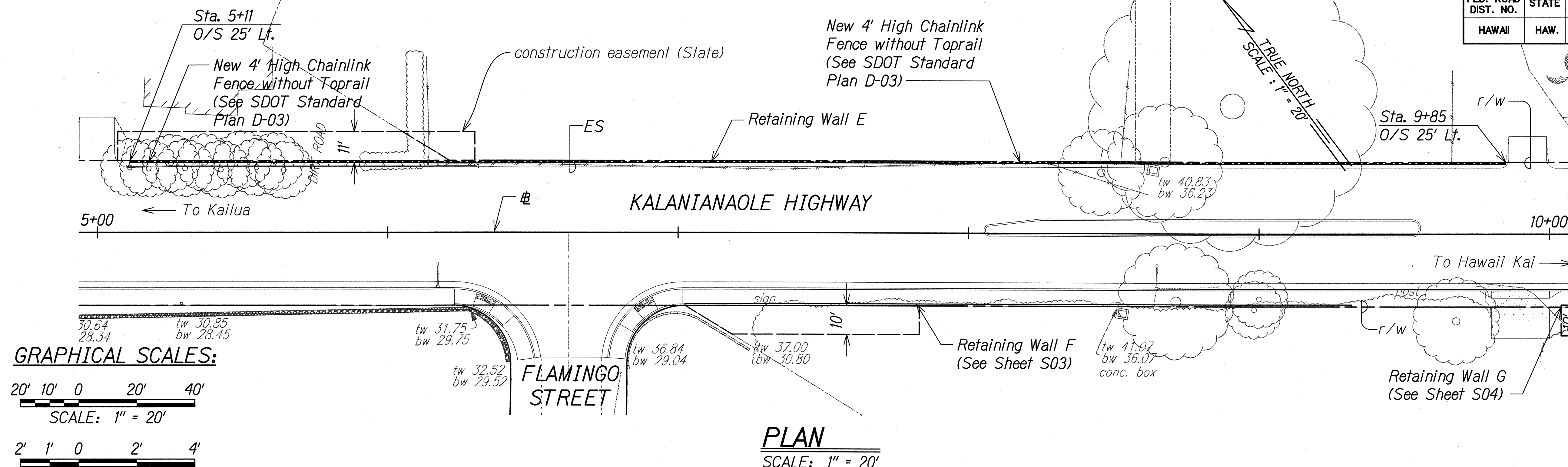
W:\CIVIL 3D PROJECTS\2008_008_000 DOT-HWY KAL HWY IMP WAINAVALO PH 1\501 - RETAINING WALL PLAN AND PROFILE.DWG 10/23/2015 10:03 AM

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 100	117

NOTES:

1. All retaining walls within cut sections shall have all exposed surfaces facing the State ROW finished with CRM Veneer.
2. For reinforcements and other wall details, See Structural Plans S08 to S09.



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SIGNATURE

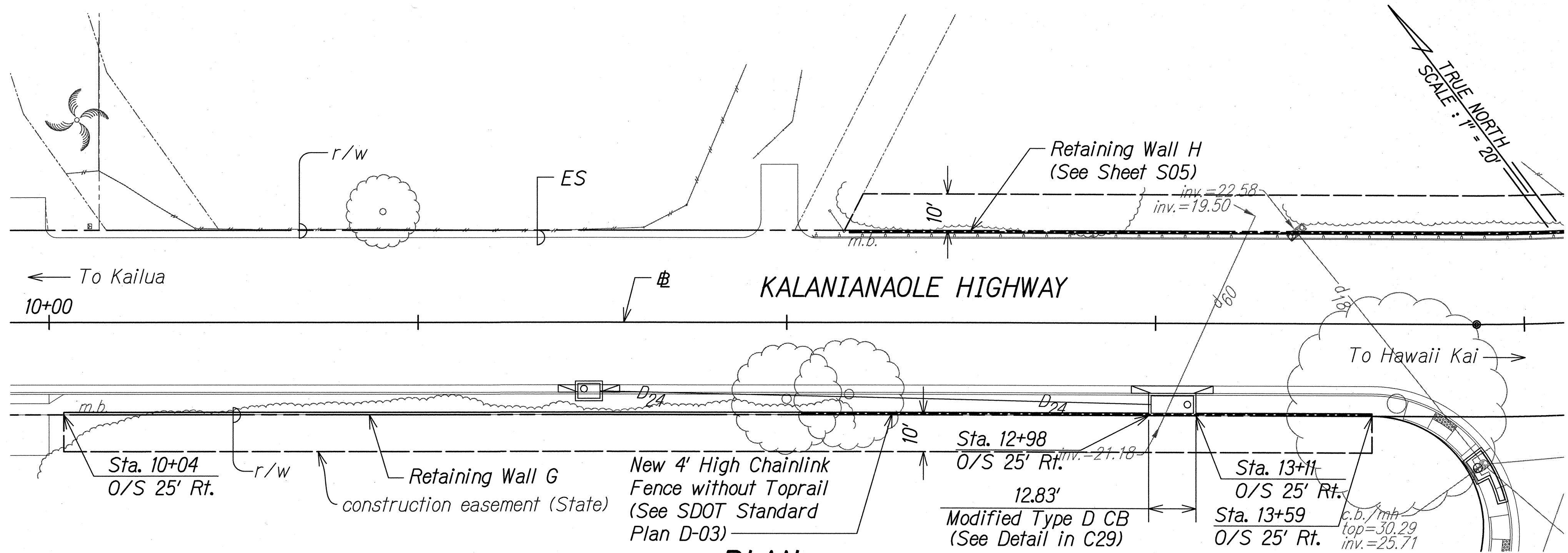
04/30/16
EXPIRATION DATE OF THE LICENSE

10/23/15	Revised Retaining Wall Footing Elevation
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RETAINING WALL E PLAN AND PROFILE KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St. Federal Aid Project No. NH-072-1(53) Scale: AS NOTED Date: July, 2015 SHEET No. S02 OF 9 SHEETS	

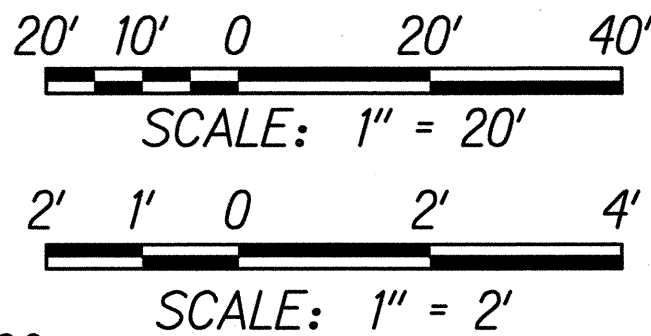
ADD. 100

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 102	117

NOTE:
For reinforcements and other wall details,
See Structural Plans S08 to S09.

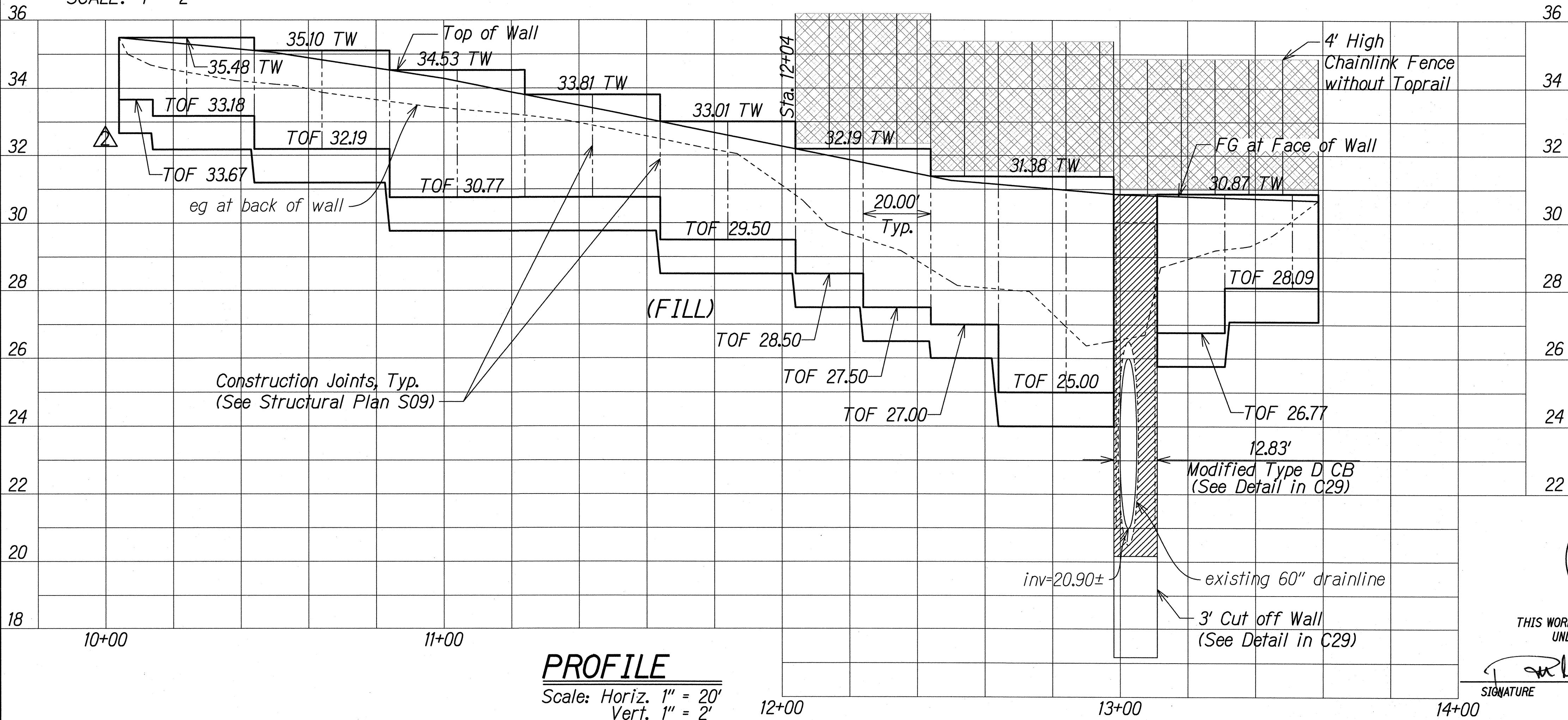


GRAPHICAL SCALES:



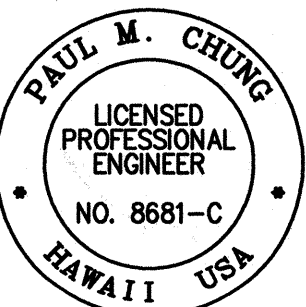
PLAN

SCALE: 1" = 20'



PROFILE

Scale: Horiz. 1" = 20'
Vert. 1" = 2'

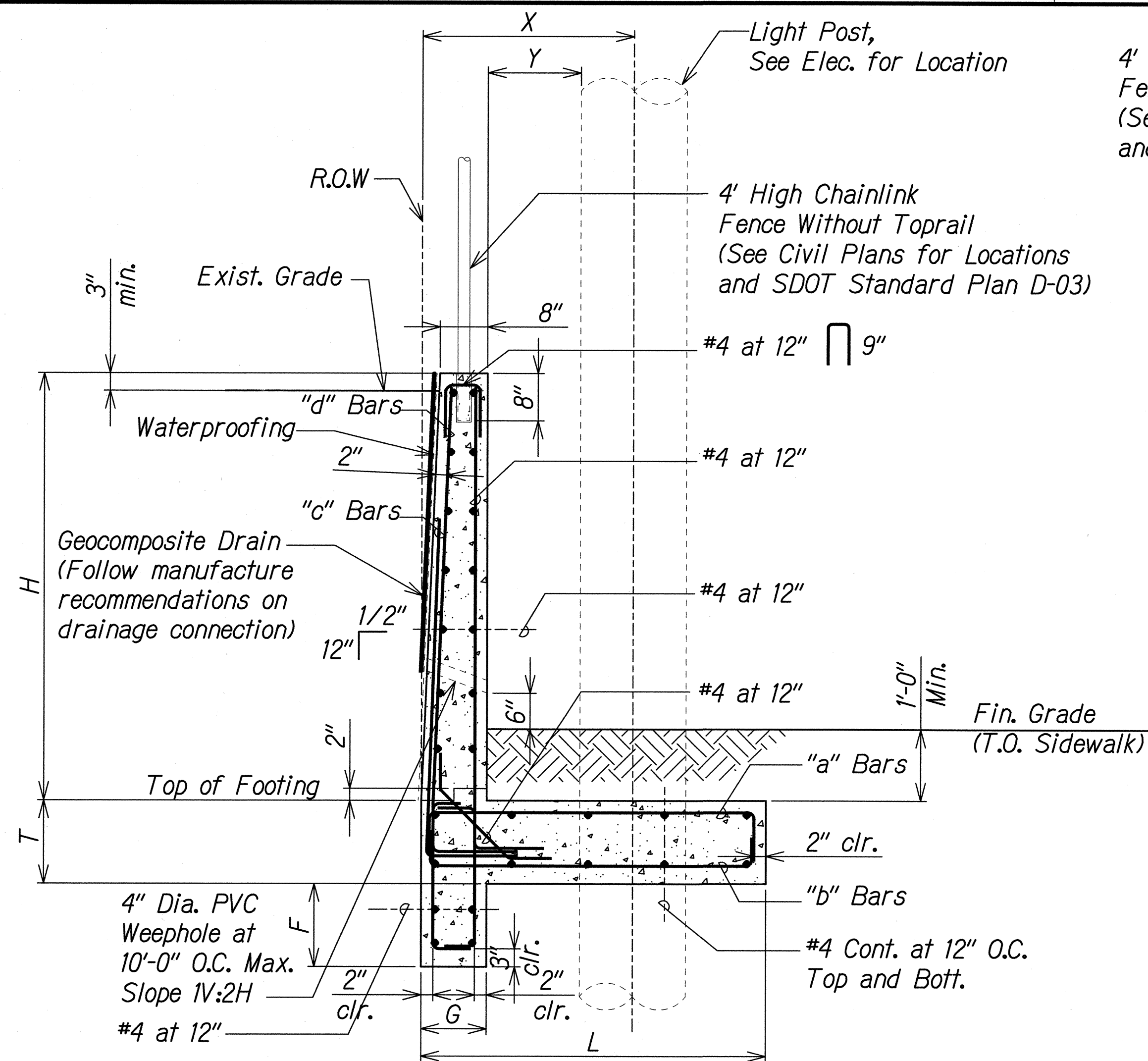


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UNDER MY SUPERVISION

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

10/23/15	Revised Retaining Wall Footing Elevation
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RETAINING WALL G PLAN AND PROFILE KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St. Federal Aid Project No. NH-072-1(53)	
Scale: AS NOTED	Date: July, 2015
SHEET No. S04 OF 9 SHEETS	

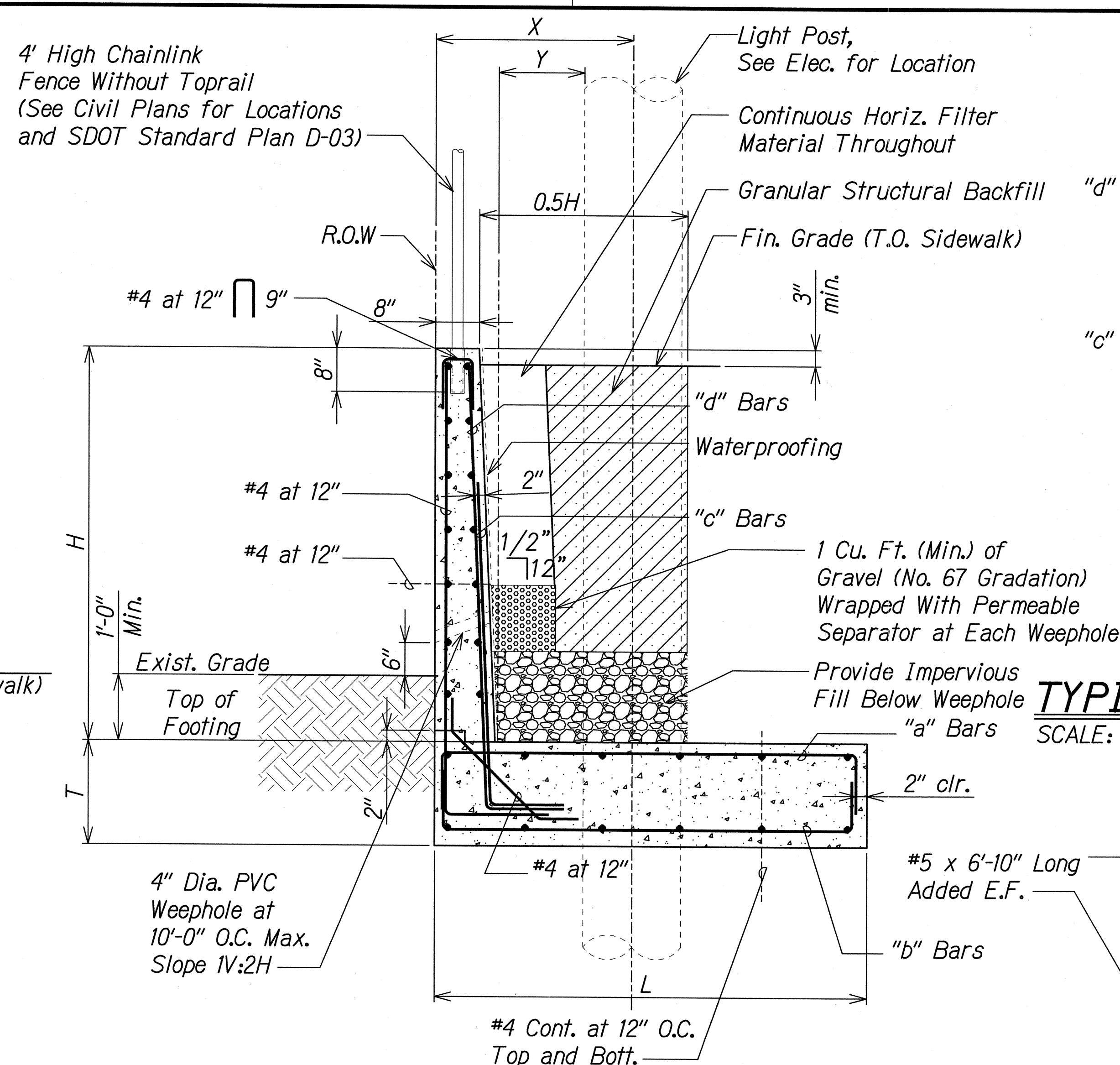
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 106	117



TYPICAL RETAINING CUT WALL SECTION
SCALE: 3/4" = 1'-0"

RETAINING WALL SCHEDULE OF DIMENSIONS AND REINFORCING FOR CUT WALL

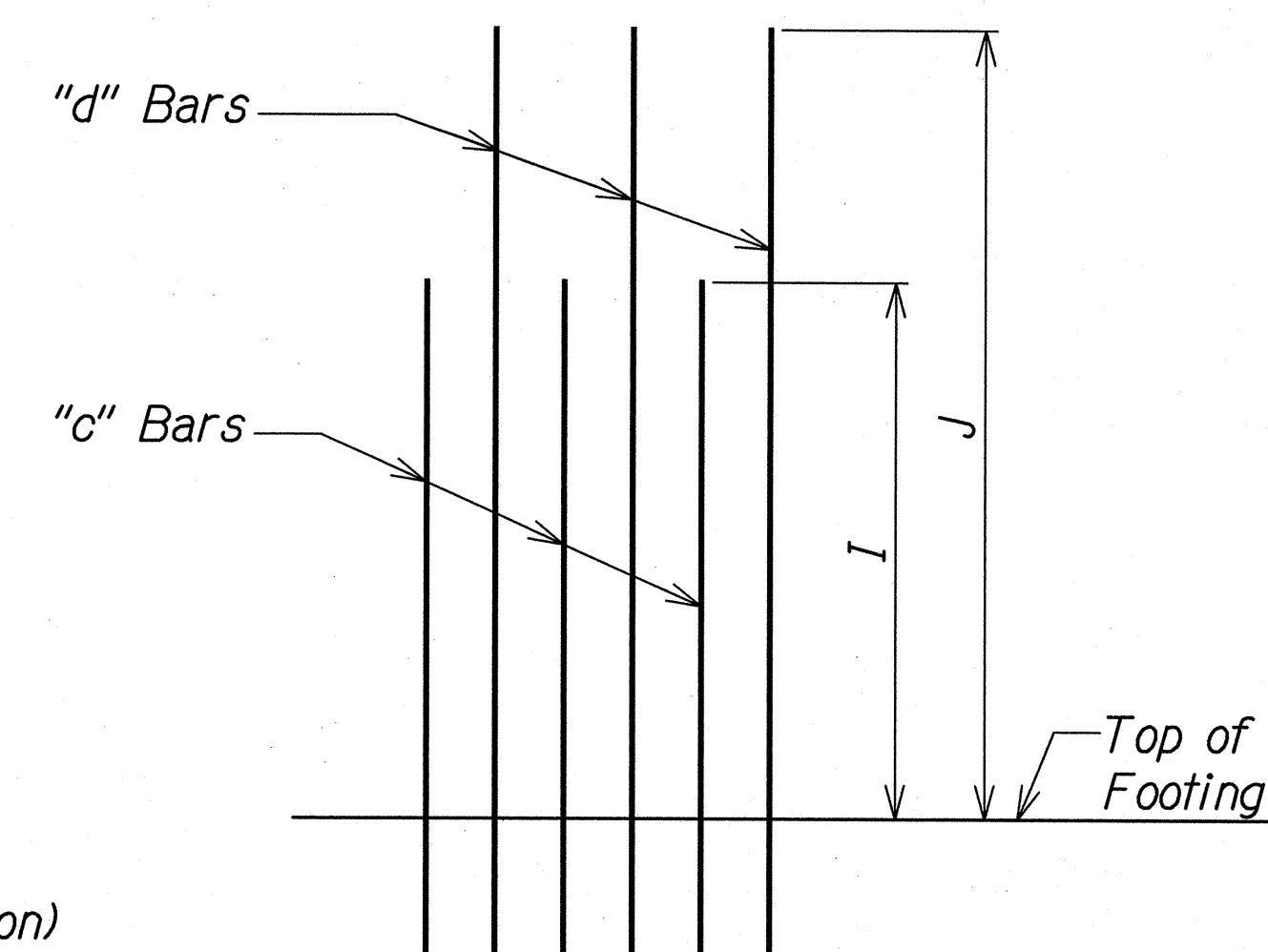
WALL Max	H4	H6	H8
"H" Max	4'-0"	6'-0"	8'-0"
L	3'-7"	4'-11"	6'-10"
T	1'-0"	1'-2"	1'-2"
F	10"	1'-7"	2'-4"
G	10"	11"	1'-0"
I	2'-11"	4'-5"	5'-11"
J	3'-10"	5'-10"	7'-10"
a	#5 AT 12"	#5 AT 12"	#5 AT 12"
b	#5 AT 12"	#5 AT 12"	#5 AT 9"
c	#4 AT 12"	#4 AT 12"	#4 AT 12"
d	#4 AT 12"	#4 AT 12"	#4 AT 12"



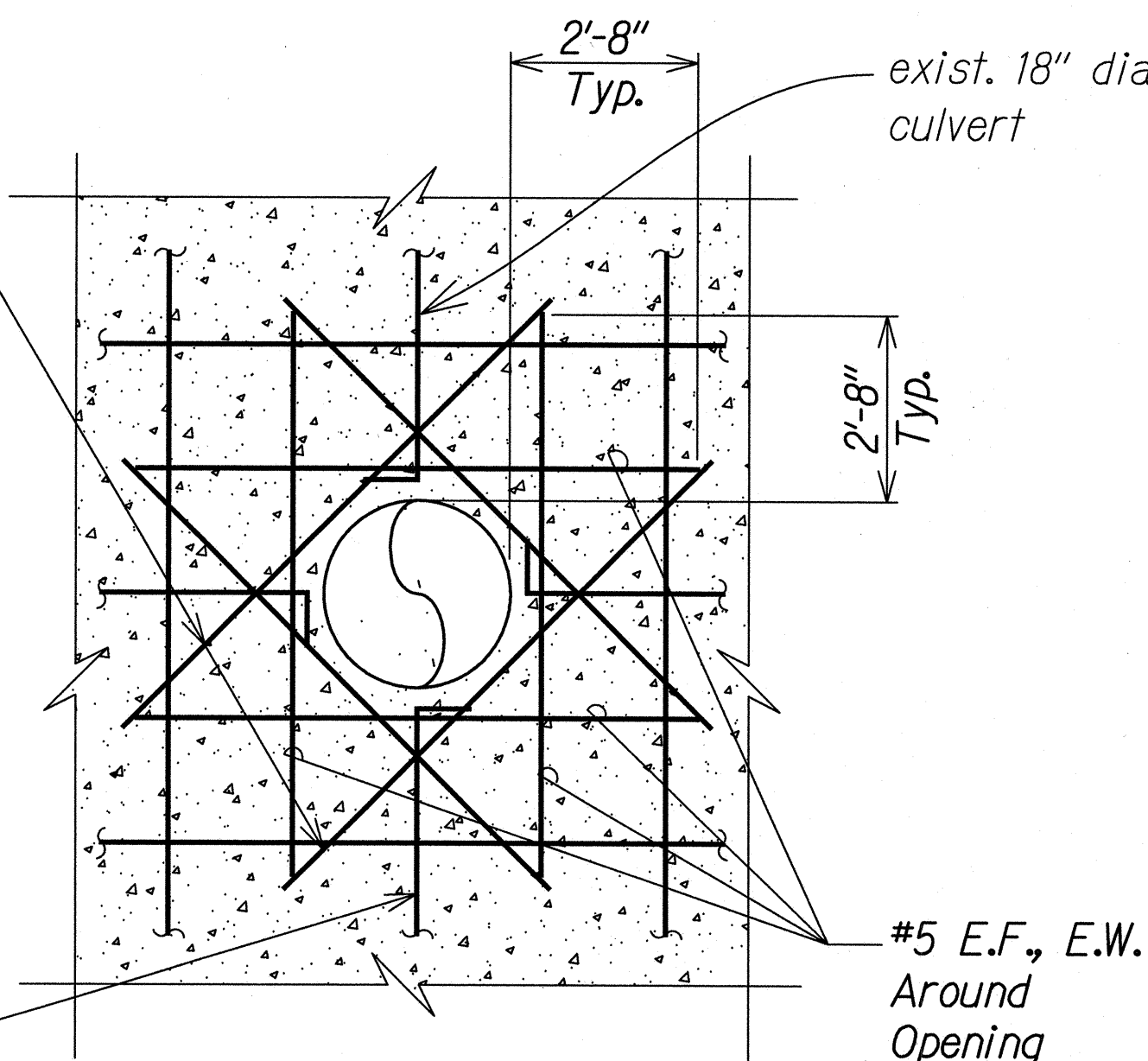
TYPICAL RETAINING FILL WALL SECTION
SCALE: 3/4" = 1'-0"

RETAINING WALL SCHEDULE OF DIMENSIONS AND REINFORCING FOR FILL WALL

WALL Max	H4	H6	H8	H11
"H" Max	4'-0"	6'-0"	8'-0"	11'-0"
L	3'-11"	5'-9"	9'-3"	16'-3"
T	1'-0"	1'-2"	1'-2"	1'-2"
I	2'-11"	4'-5"	5'-11"	6'-6"
J	3'-10"	5'-10"	7'-10"	10'-10"
a	#5 AT 12"	#5 AT 9"	#5 AT 8"	#5 AT 8"
b	#5 AT 12"	#5 AT 12"	#5 AT 12"	#5 AT 12"
c	#4 AT 12"	#4 AT 12"	#4 AT 12"	#5 AT 9"
d	#4 AT 12"	#4 AT 12"	#4 AT 12"	#5 AT 9"

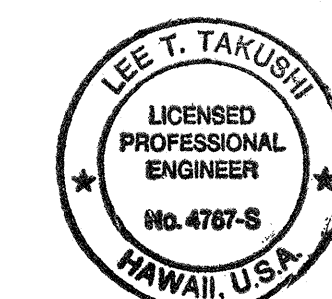


TYPICAL LAYOUT OF BARS "c", "d"
SCALE: 3/4" = 1'-0"



TYPICAL REINFORCEMENT AT WALL OPENING DETAIL

NOT TO SCALE



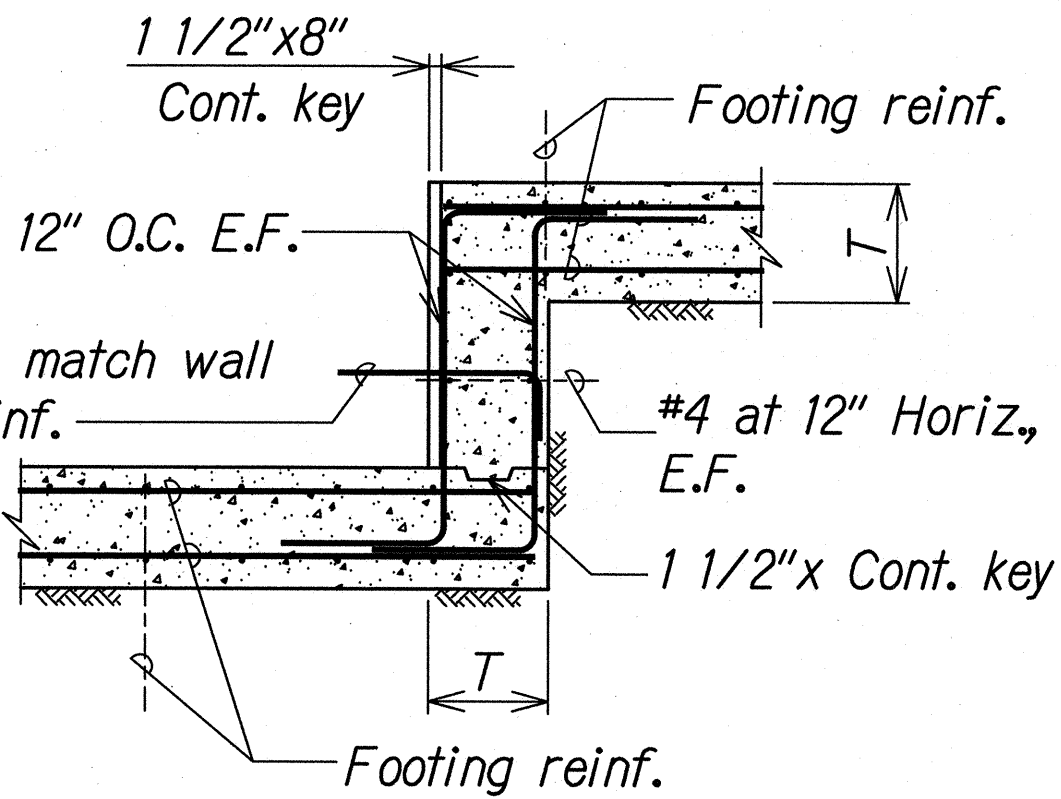
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE

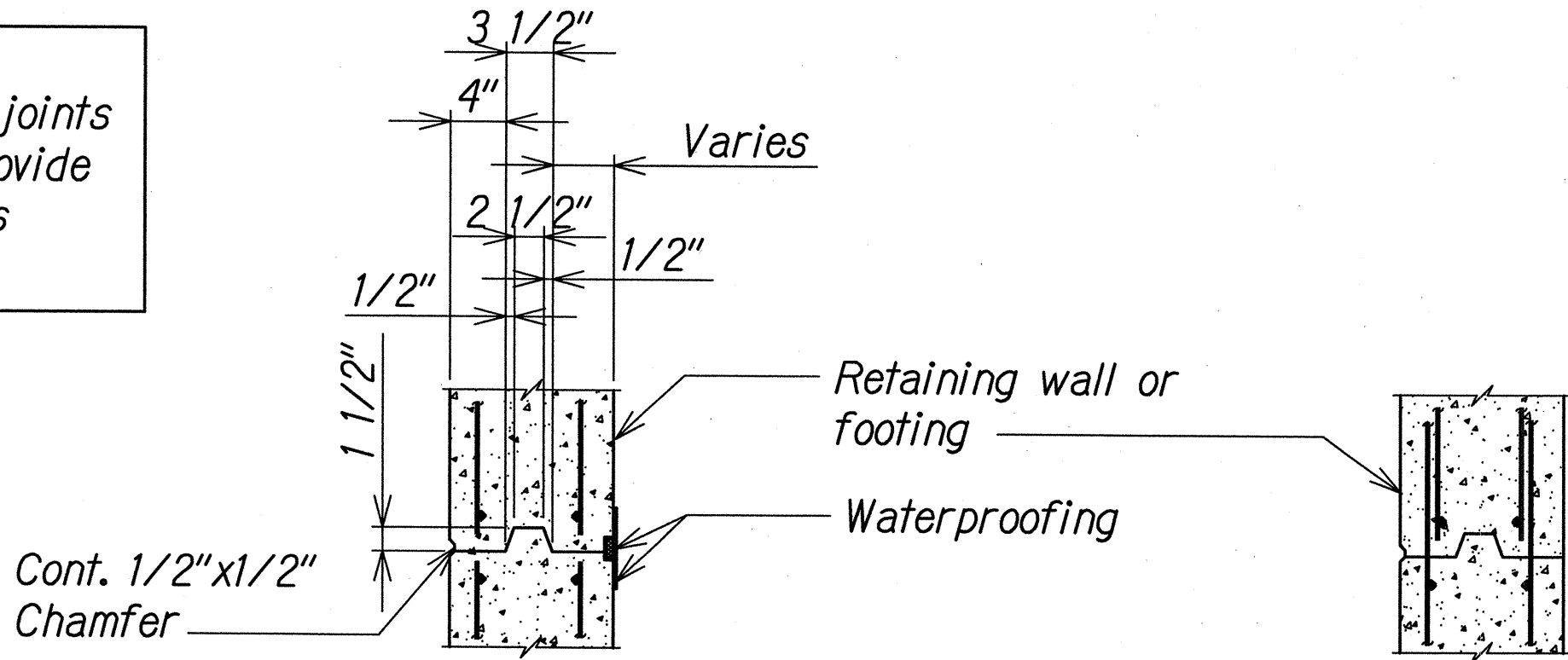
EXPIRATION DATE OF THE LICENSE

10/23/15	Revised Typical Retaining Cut and Fill Wall Section
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
RETAINING WALL SECTION AND DETAILS	
Kalaniana'ole Highway Improvements, Phase I Olomana Golf Course To Vicinity of Poalima St.	
Federal Aid Project No. NH-072-1(53)	
Scale: AS NOTED	Date: Oct., 2015
SHEET No. S08 OF 9 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 107	117



STEP FOOTING DETAIL
NOT TO SCALE

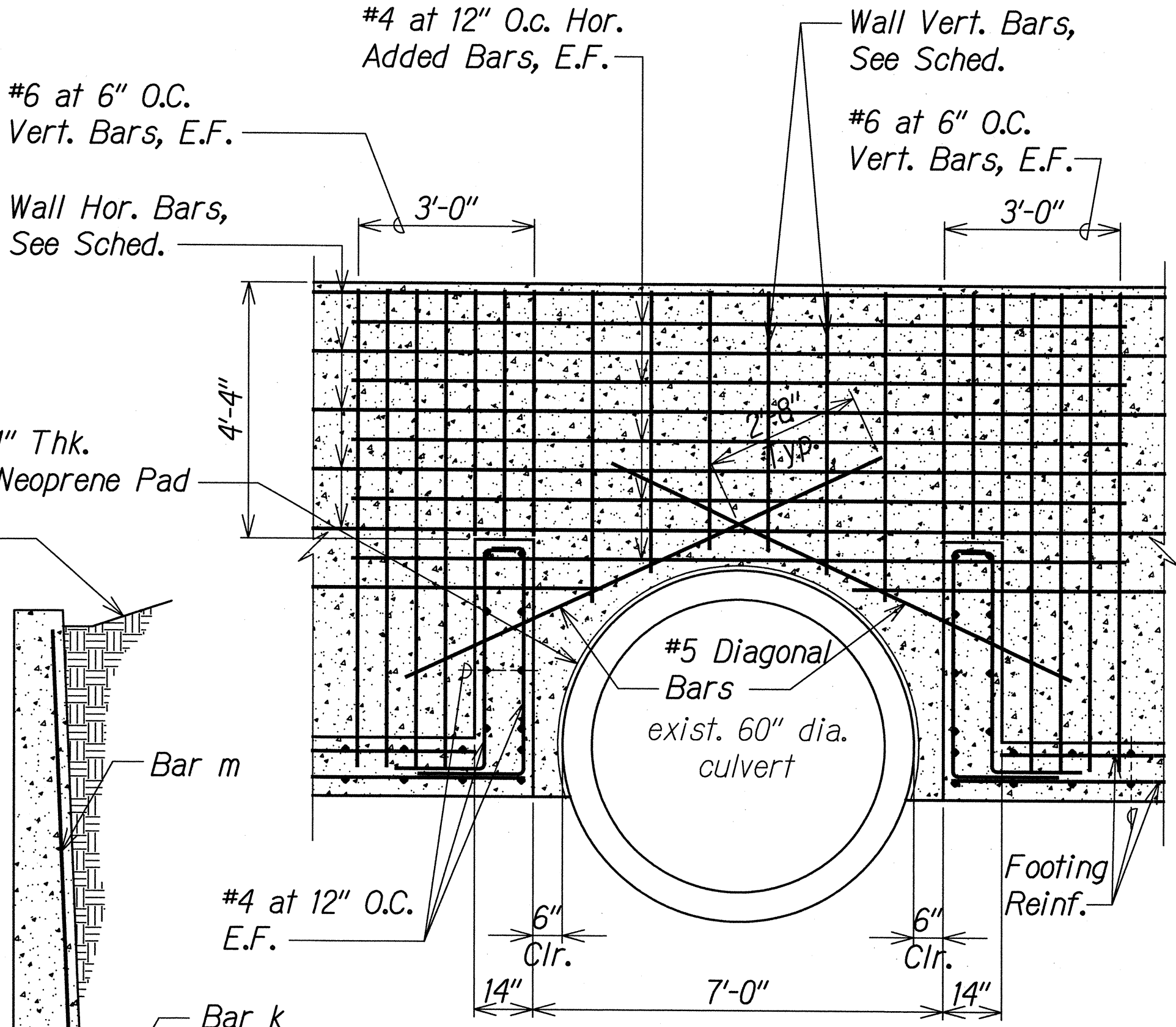


CONTRACTION JOINT SECTION (Wall and Footing)
CONSTRUCTION JOINT SECTION (Wall and Footing)

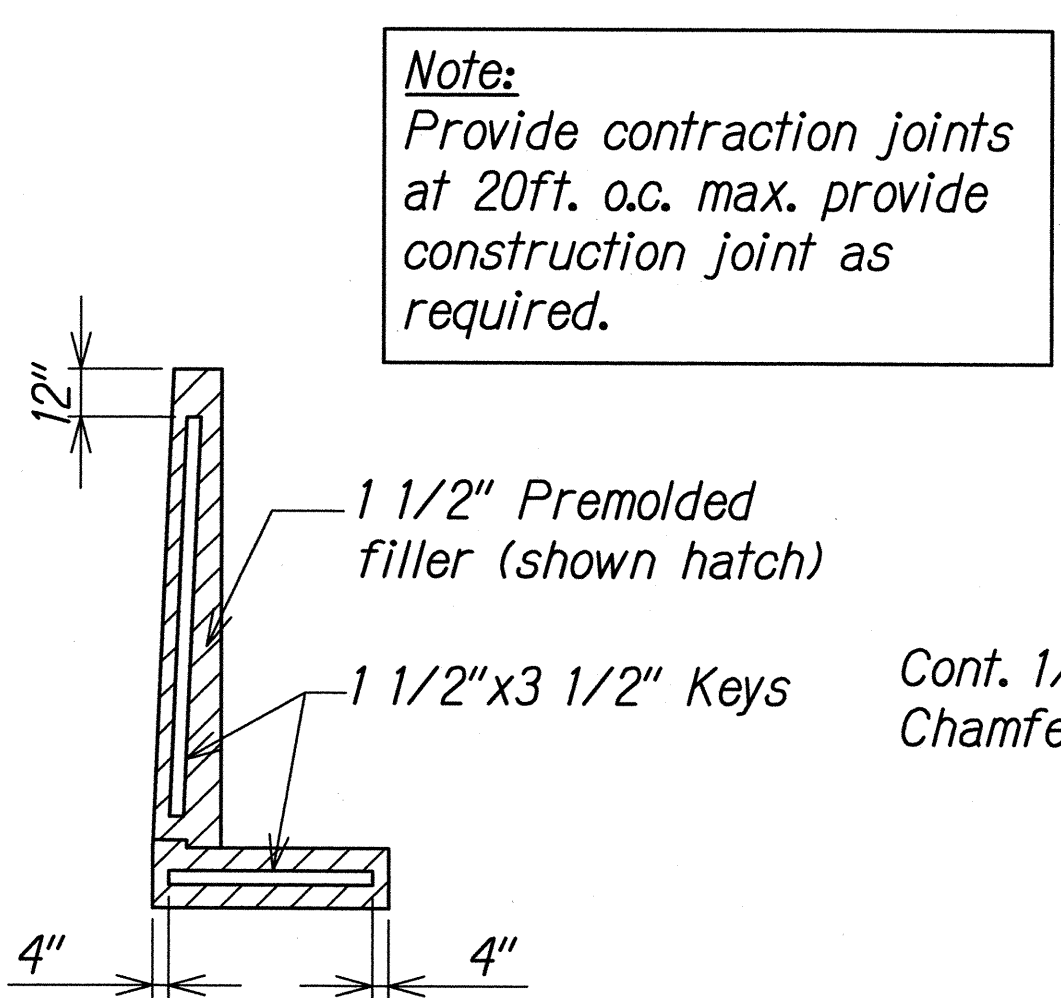
TYPICAL CONTRACTION/CONSTRUCTION JOINT DETAIL
NOT TO SCALE

General Construction Notes:

- See standard specifications and special provisions.
- All items noted incidental will not be paid for separately.
- Standard detail drawings refer to all structures in general, except for modifications as may be required for special conditions. For such modifications, refer to the corresponding detailed drawings.
- The Contractor shall comply with all construction permits for this project. In addition, The Contractor shall comply with all applicable laws of the federal, State and County Governments.
- Unless otherwise noted, All vertical dimensions are measured plumb.
- The Contractor shall verify all site conditions before commencing with work.
- The Contractor shall verify the location of all underground utility lines and notify the respective owners before commencing the work of excavation.
- For concrete finish, See standard specifications.
- Unless otherwise noted, All exposed concrete edges shall be chamfered 3/4" x 3/4".

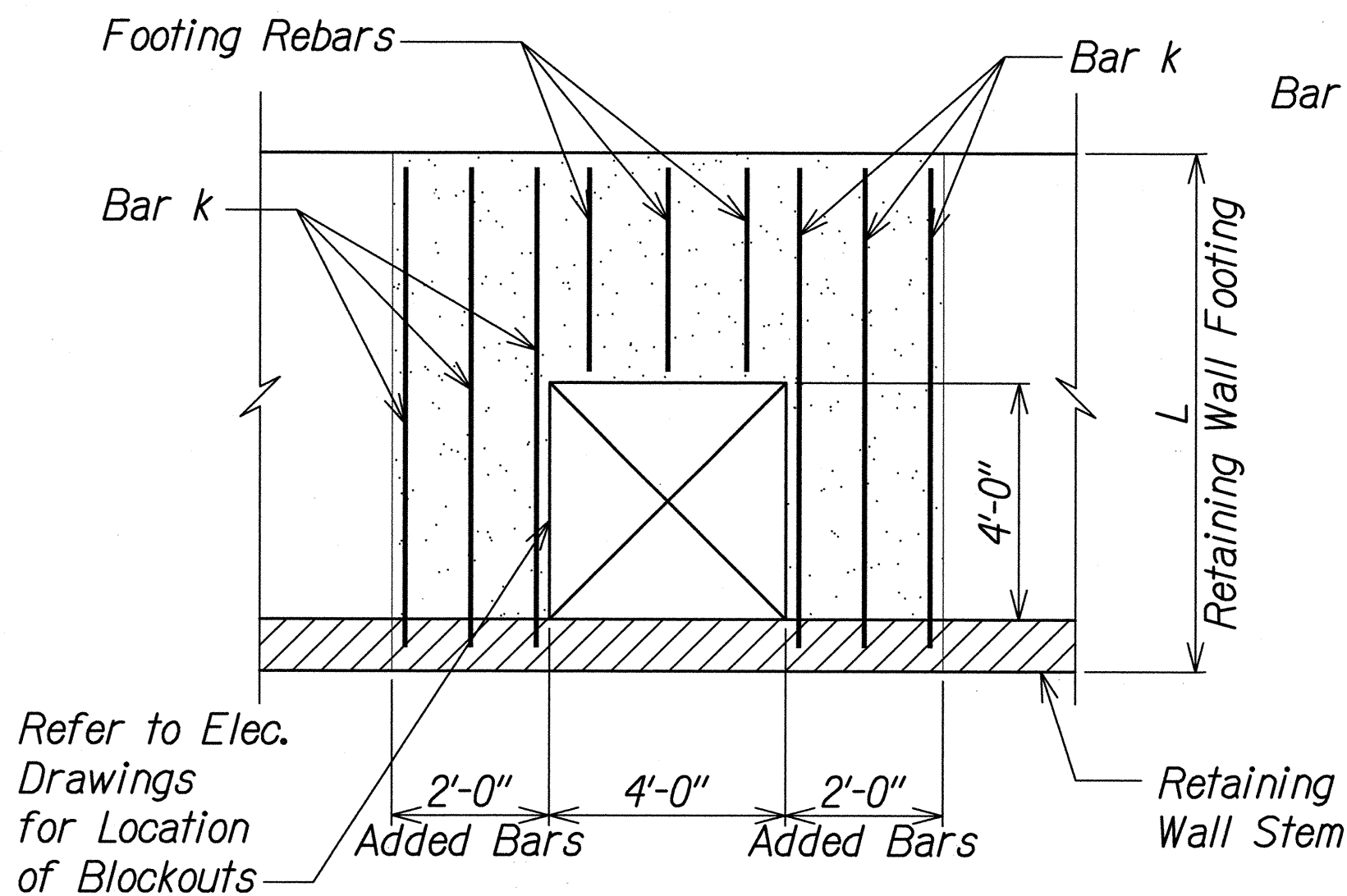


WALL REINFORCEMENT DETAIL AT EXISTING 60" DIAMETER CULVERT
NOT TO SCALE

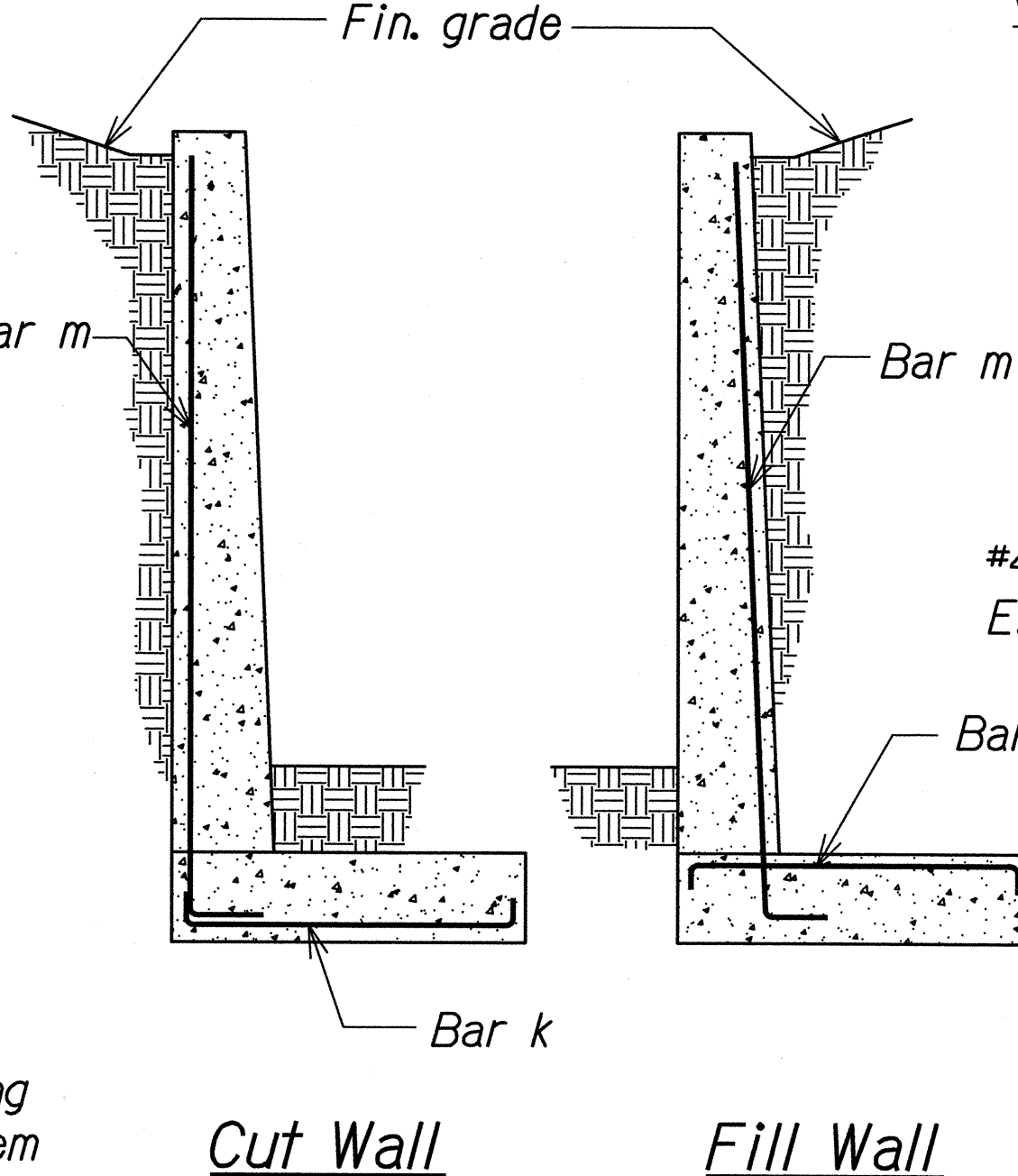


STRUCTURAL EXCAVATION DRAINAGE AND STRUCTURAL BACKFILL DETAIL
NOT TO SCALE

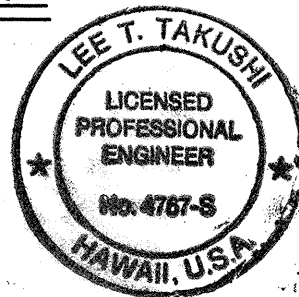
ADDED REINFORCING SCHEDULE			
Bar Designation	Cut Wall	Fill Wall	
	H4	H4	H6
m	#4 AT 12"	#4 AT 12"	#4 AT 12"
k	#4 AT 12"	#4 AT 12"	#4 AT 12"



TYPICAL RETAINING WALL CONDITION AT LIGHT POLE FOOTING DETAIL
NOT TO SCALE



Cut Wall
Fill Wall

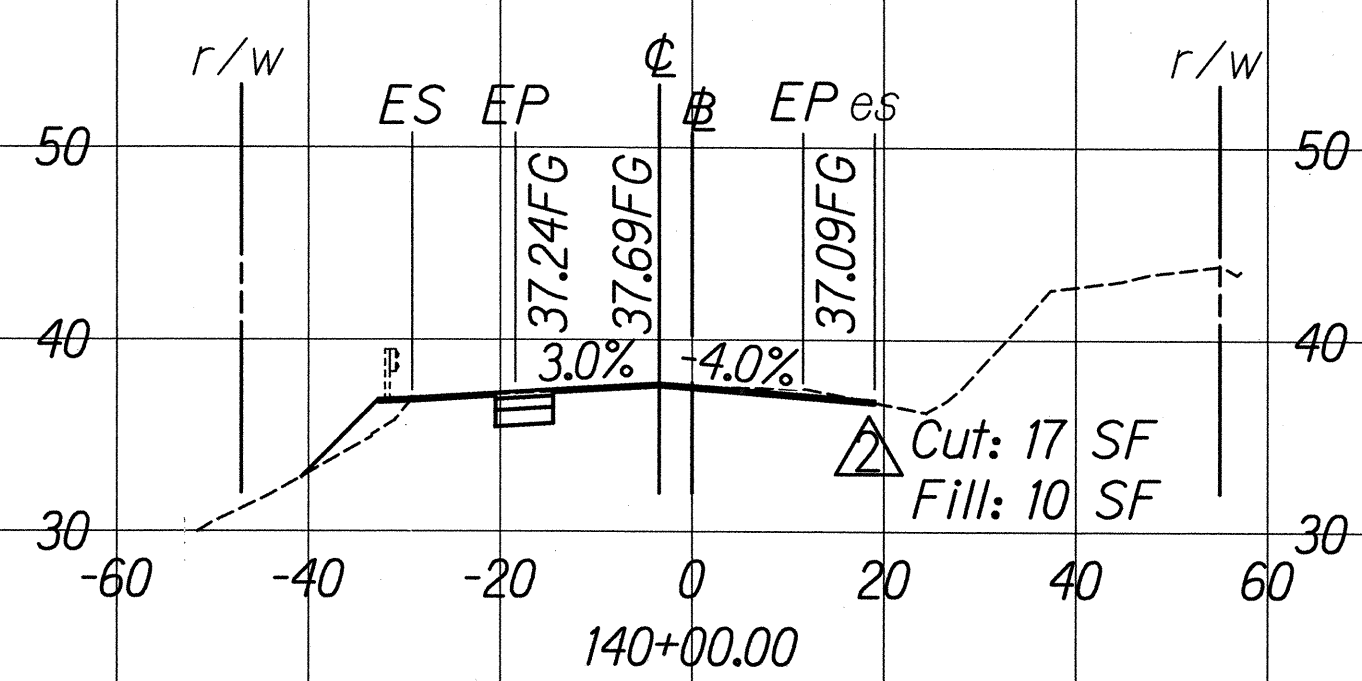
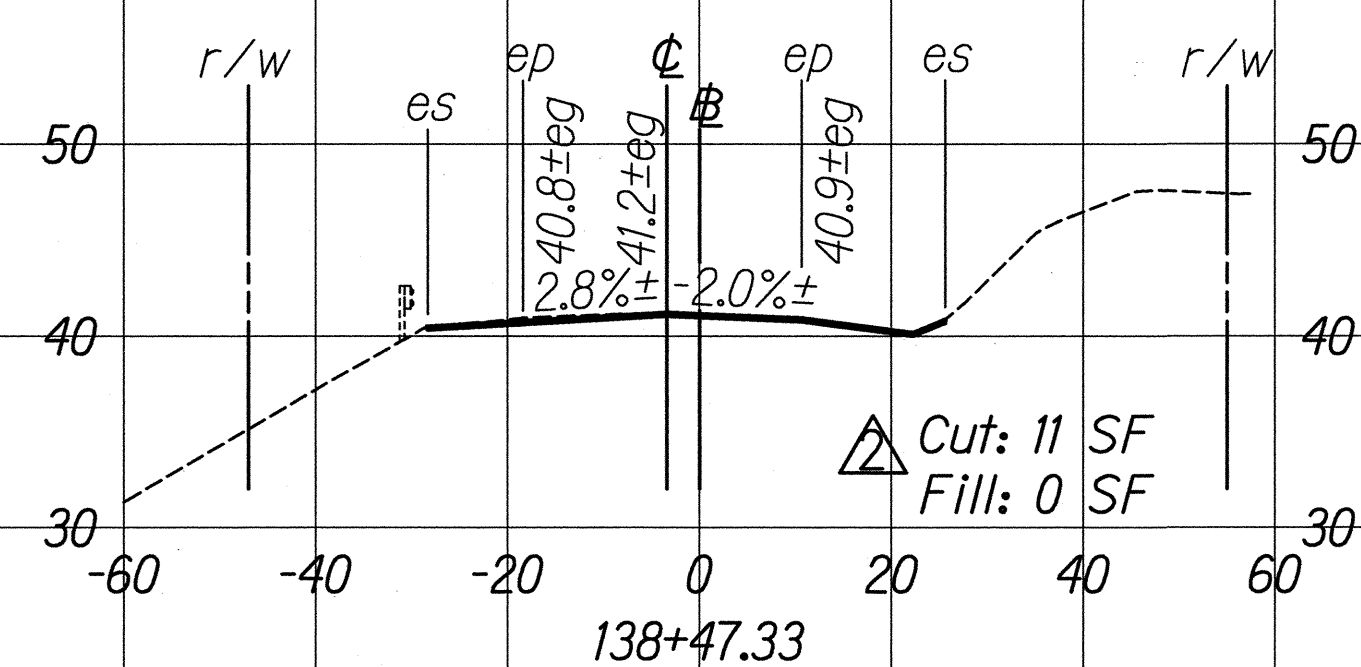
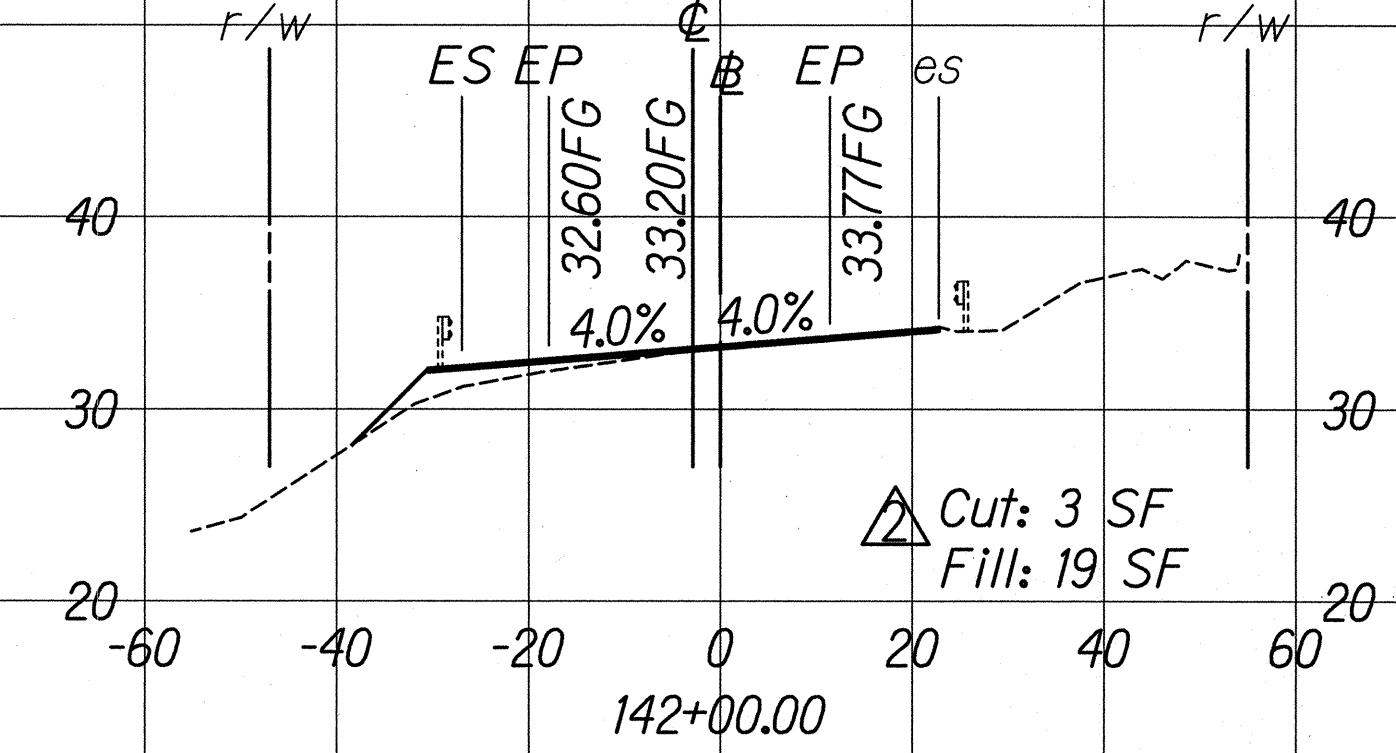
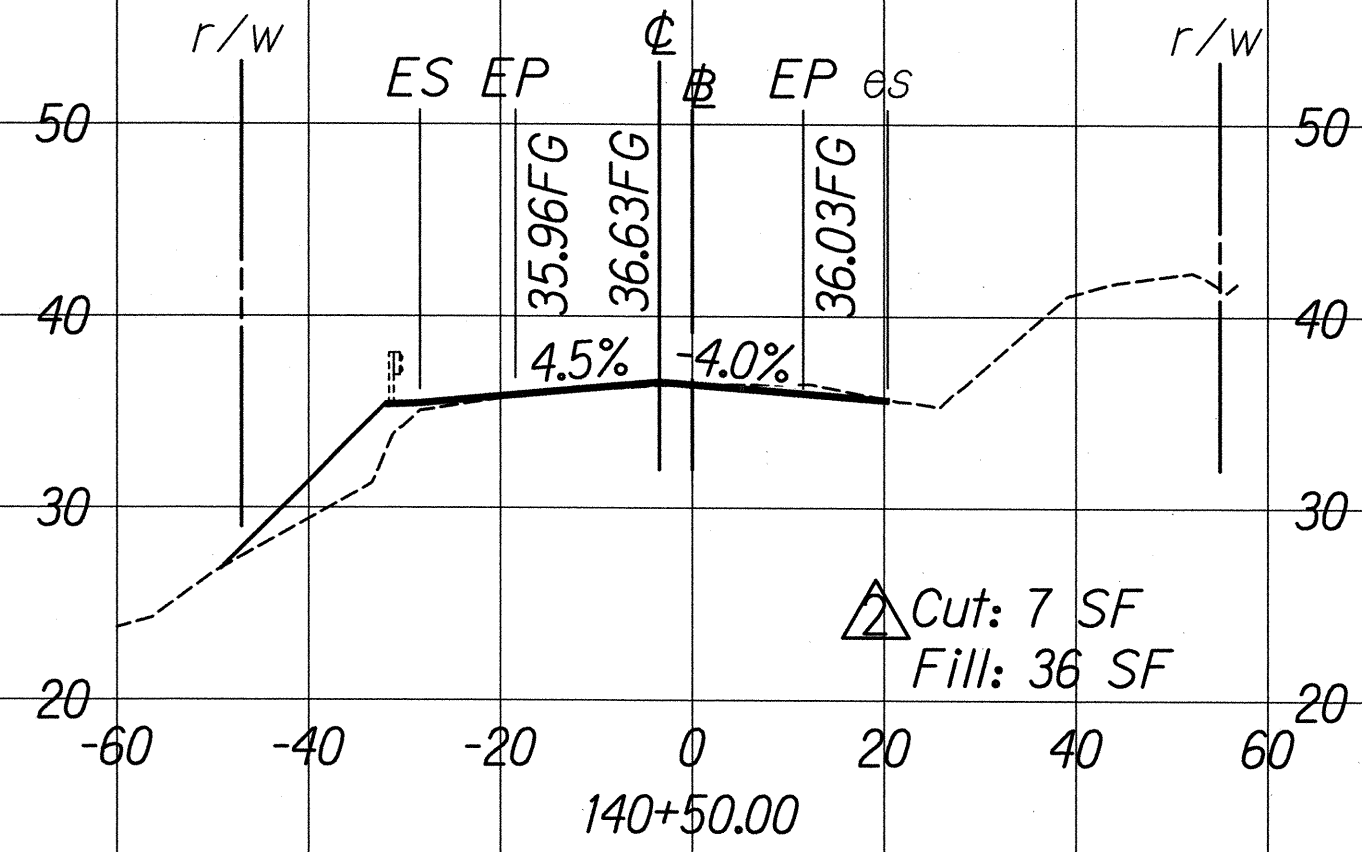
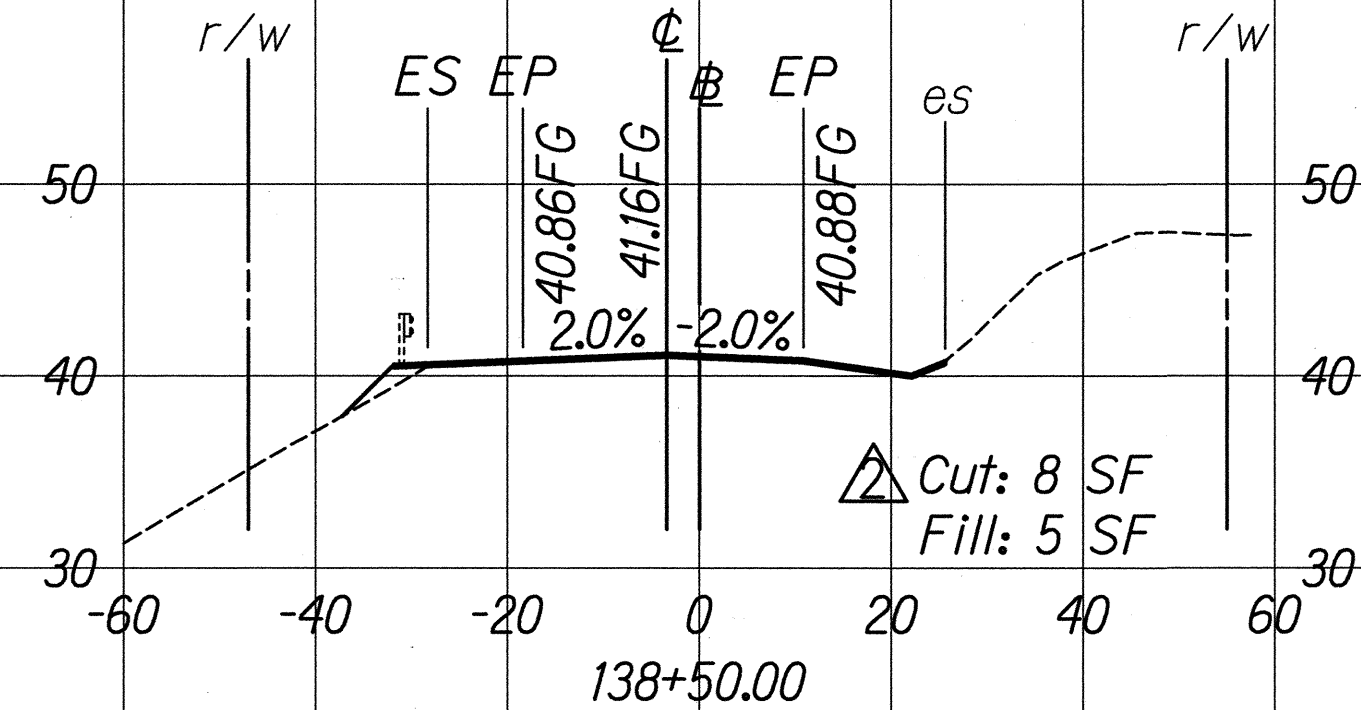
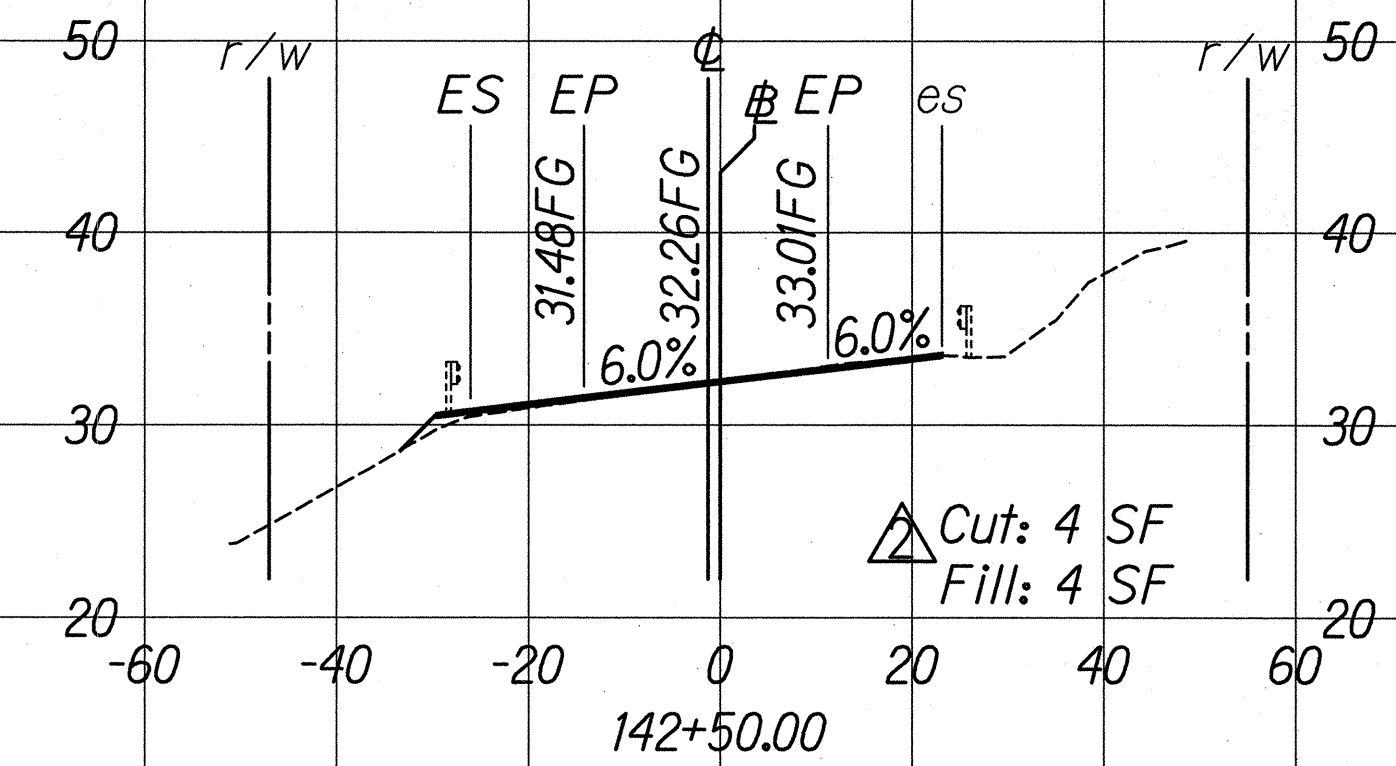
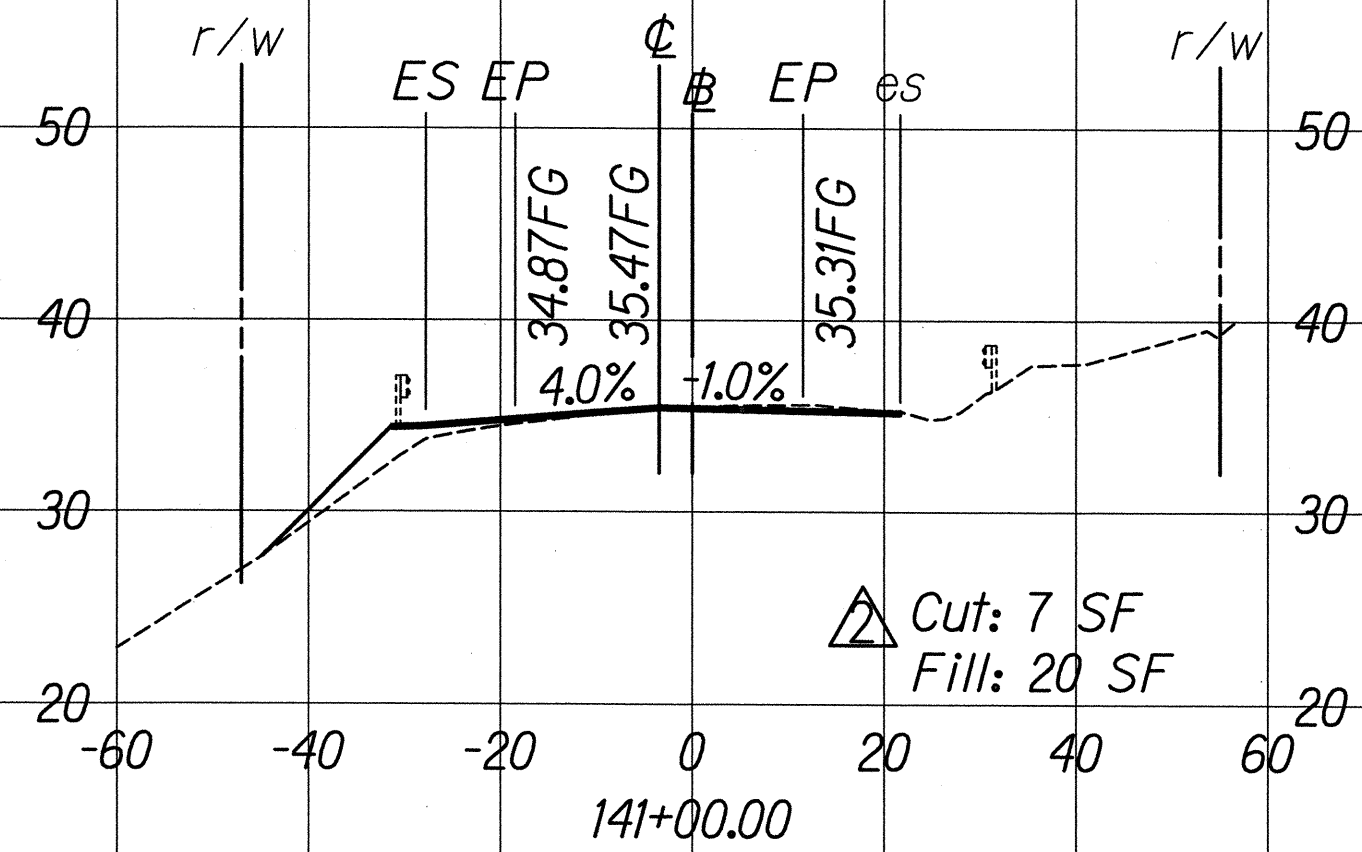
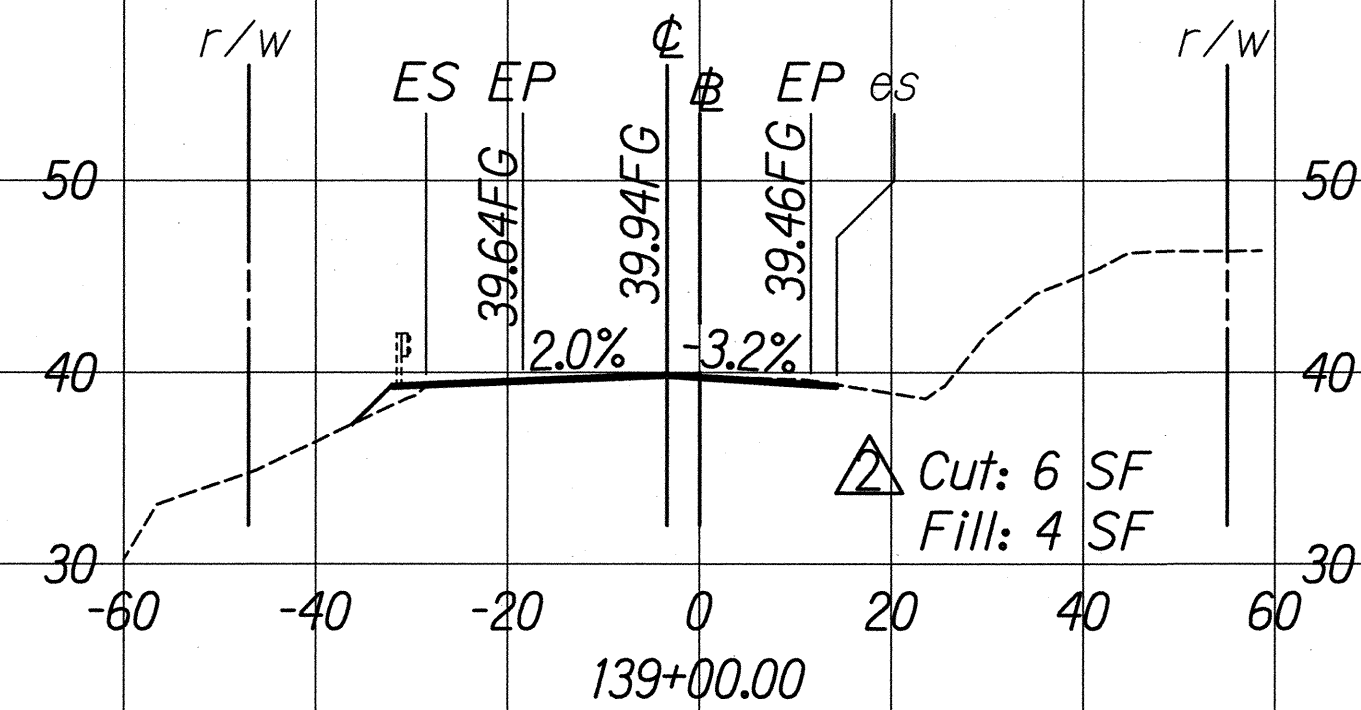
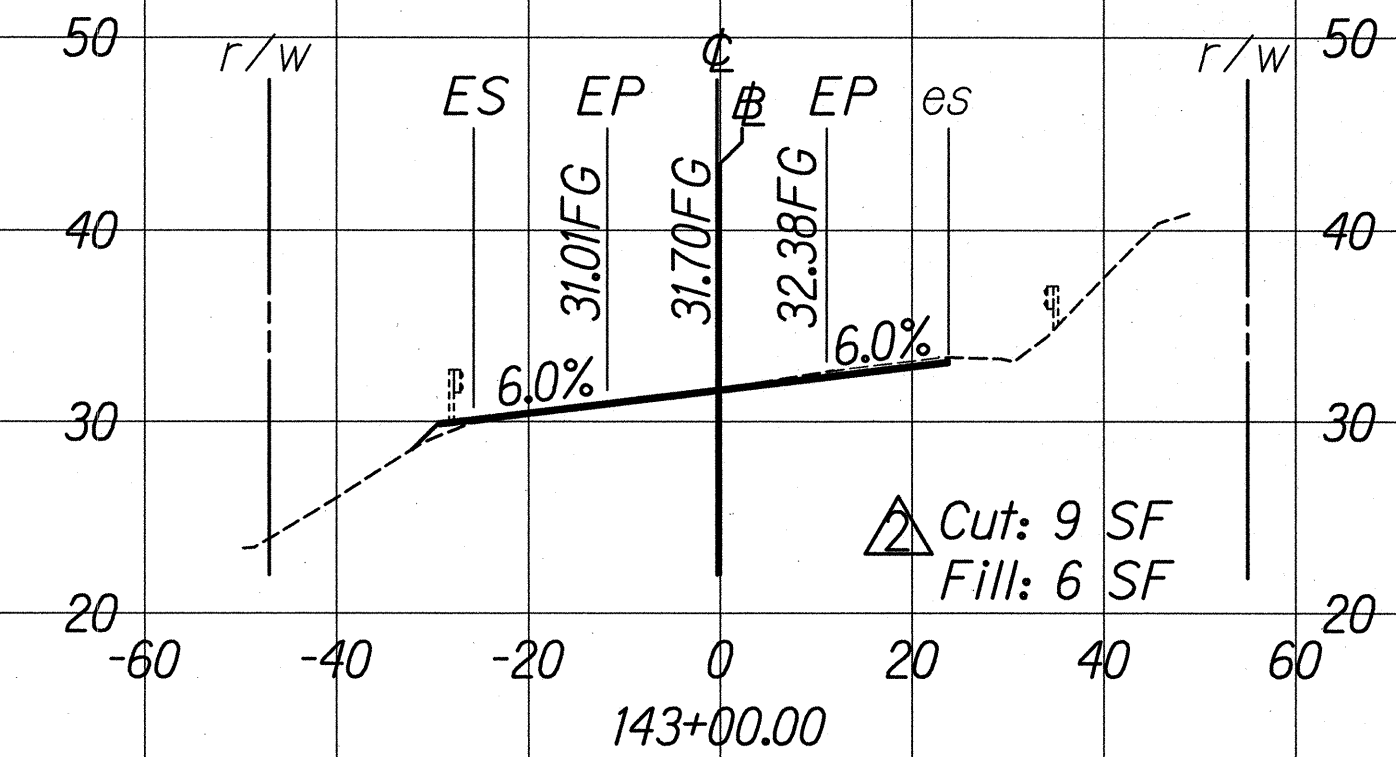
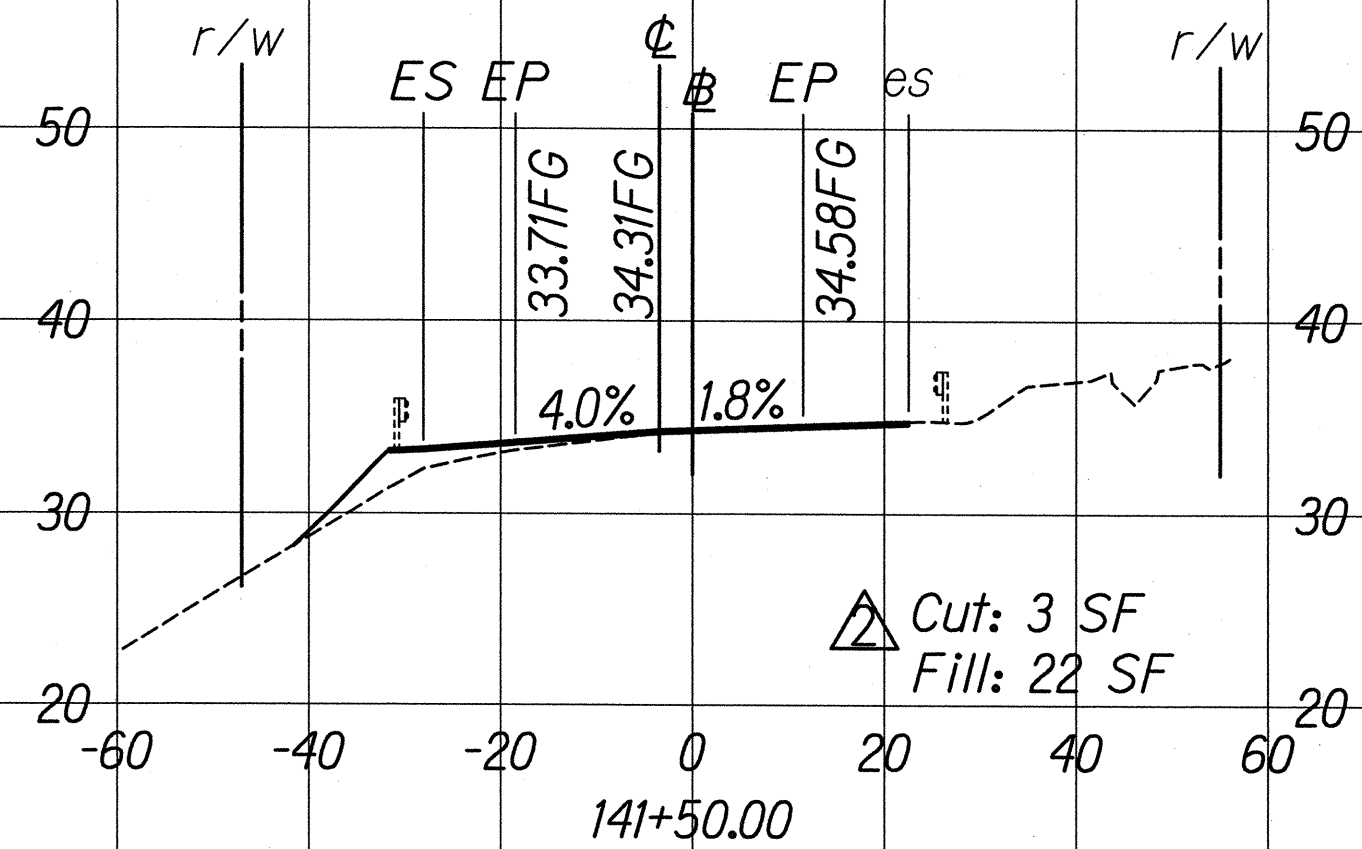
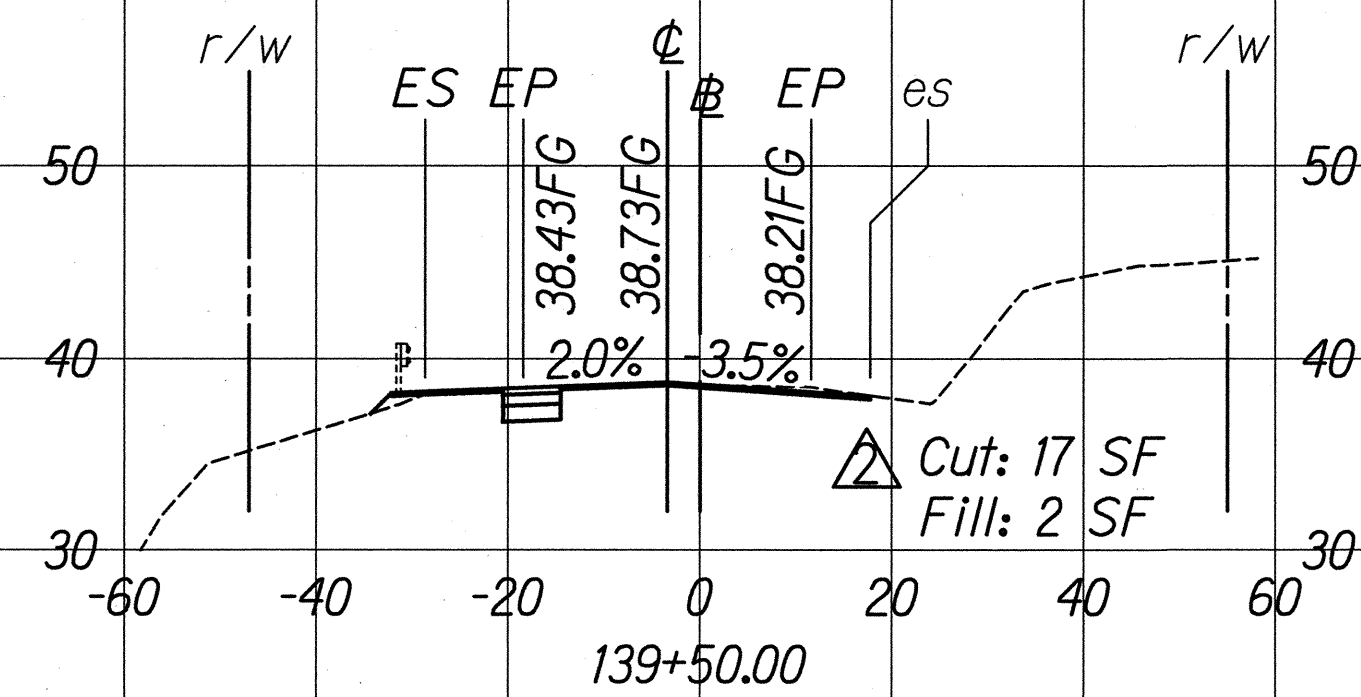


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

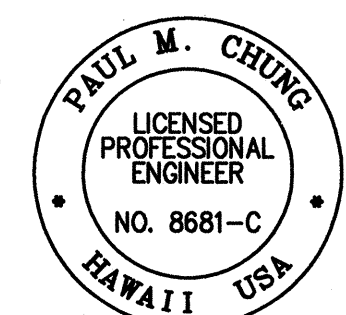
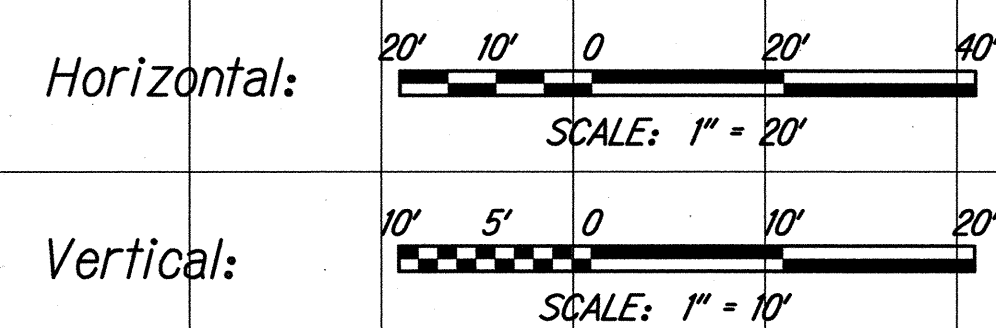
SIGNATURE: *[Signature]* EXPIRATION DATE OF THE LICENSE: 04/30/16

10/23/15	Revised Structural Excavation Drainage and Backfill Detail
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RETAINING WALL DETAILS KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1 Olomana Golf Course To Vicinity of Poalima St. Federal Aid Project No. NH-072-1(53) Scale: AS NOTED Date: Oct., 2015 SHEET No. S09 OF 9 SHEETS	

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:



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

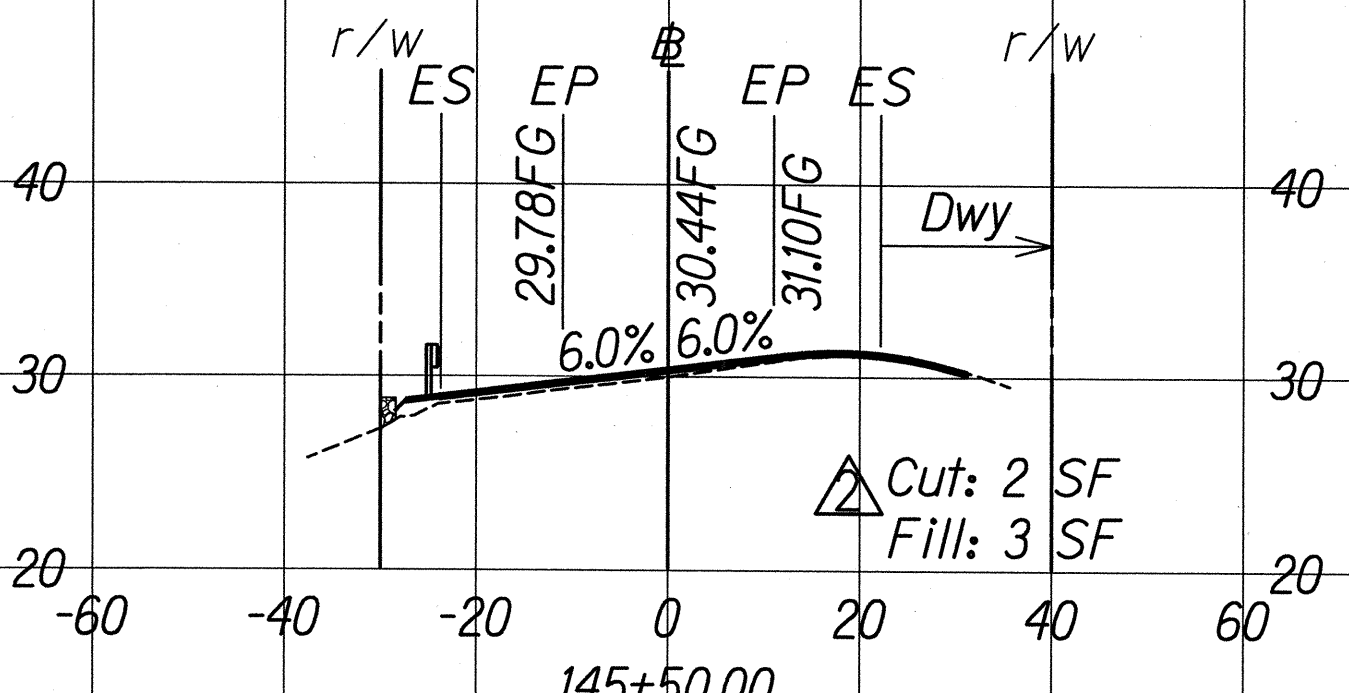
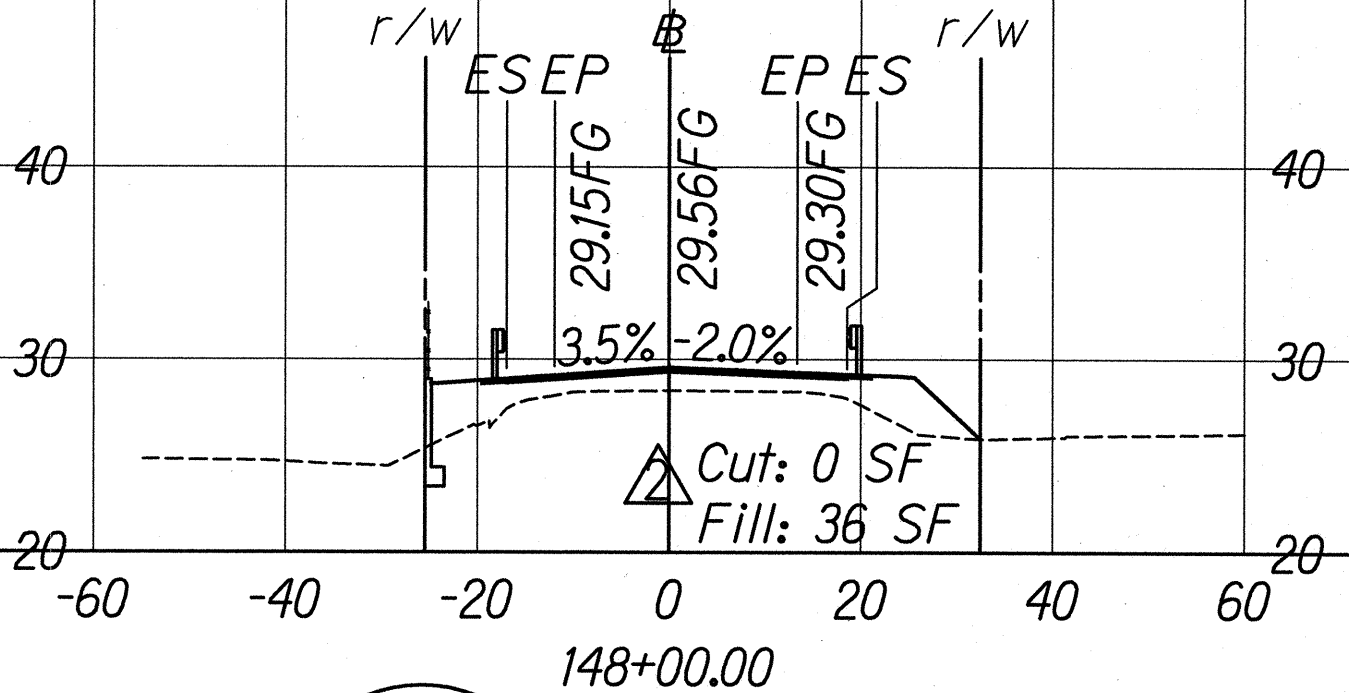
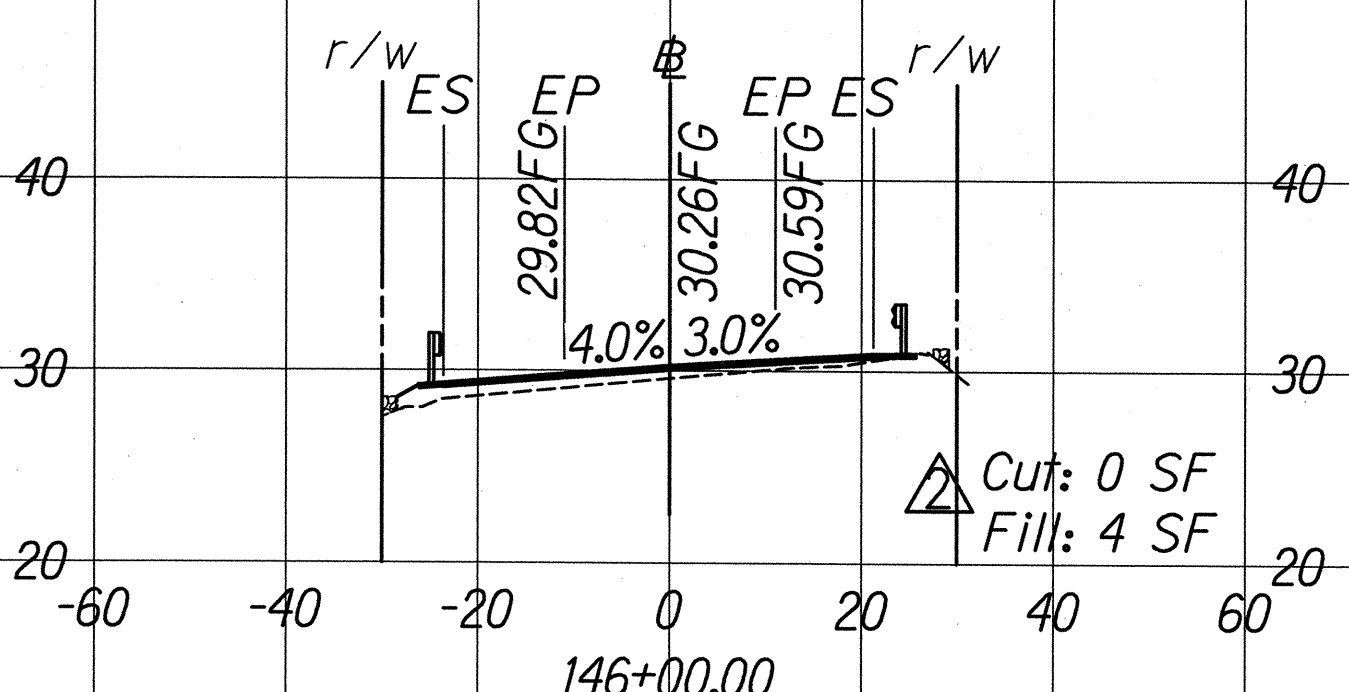
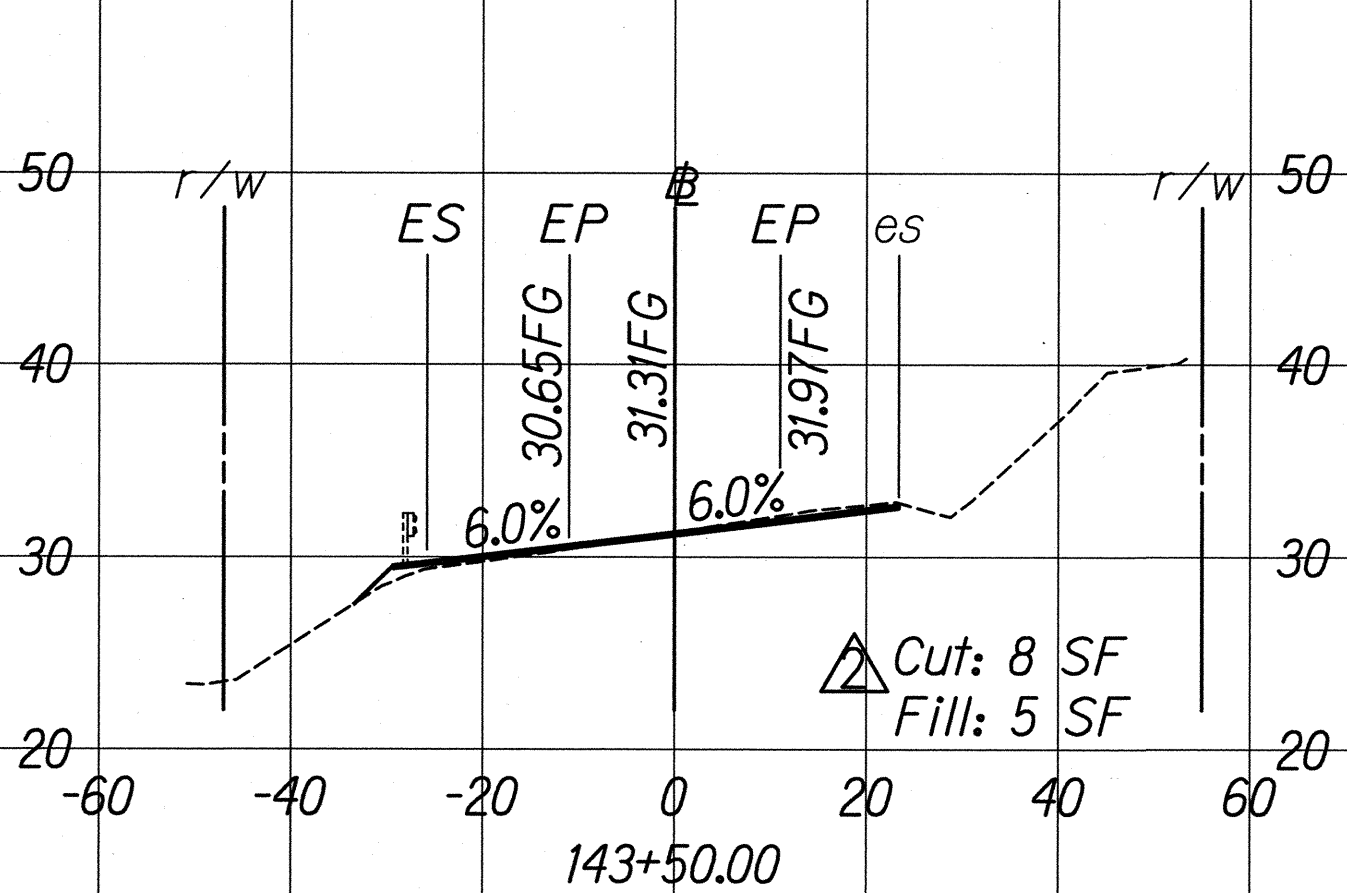
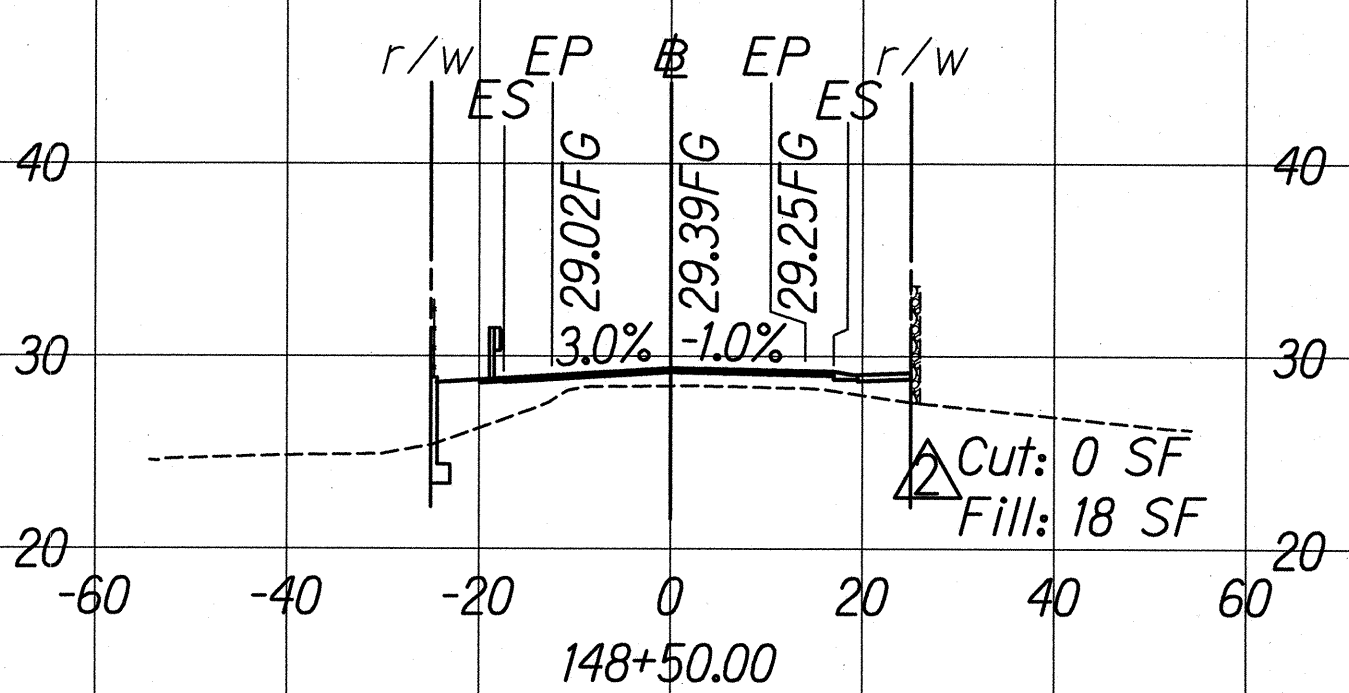
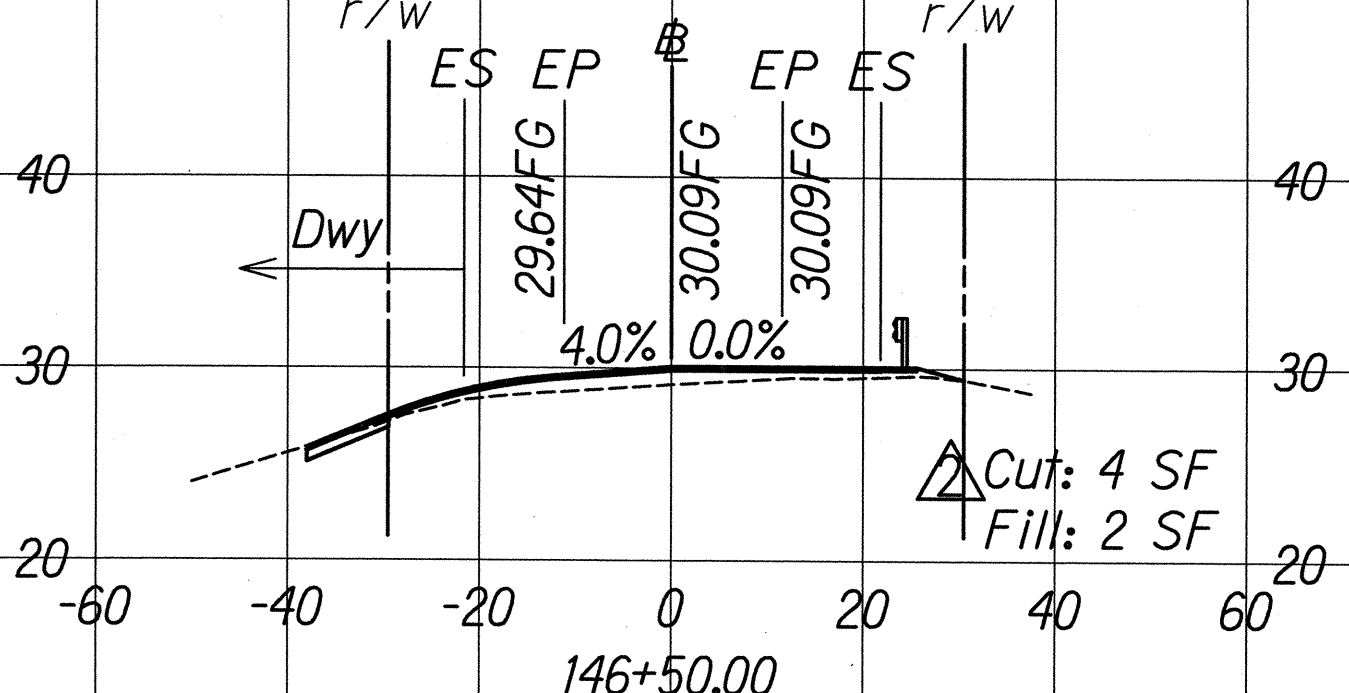
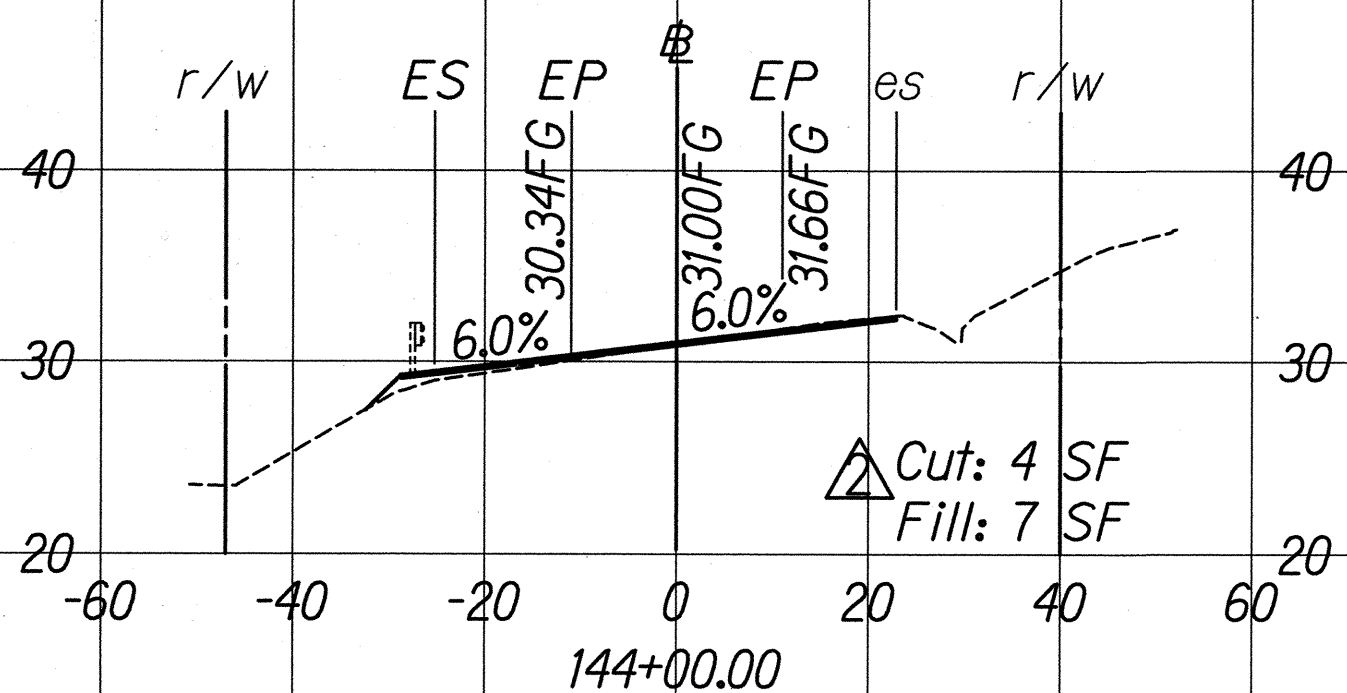
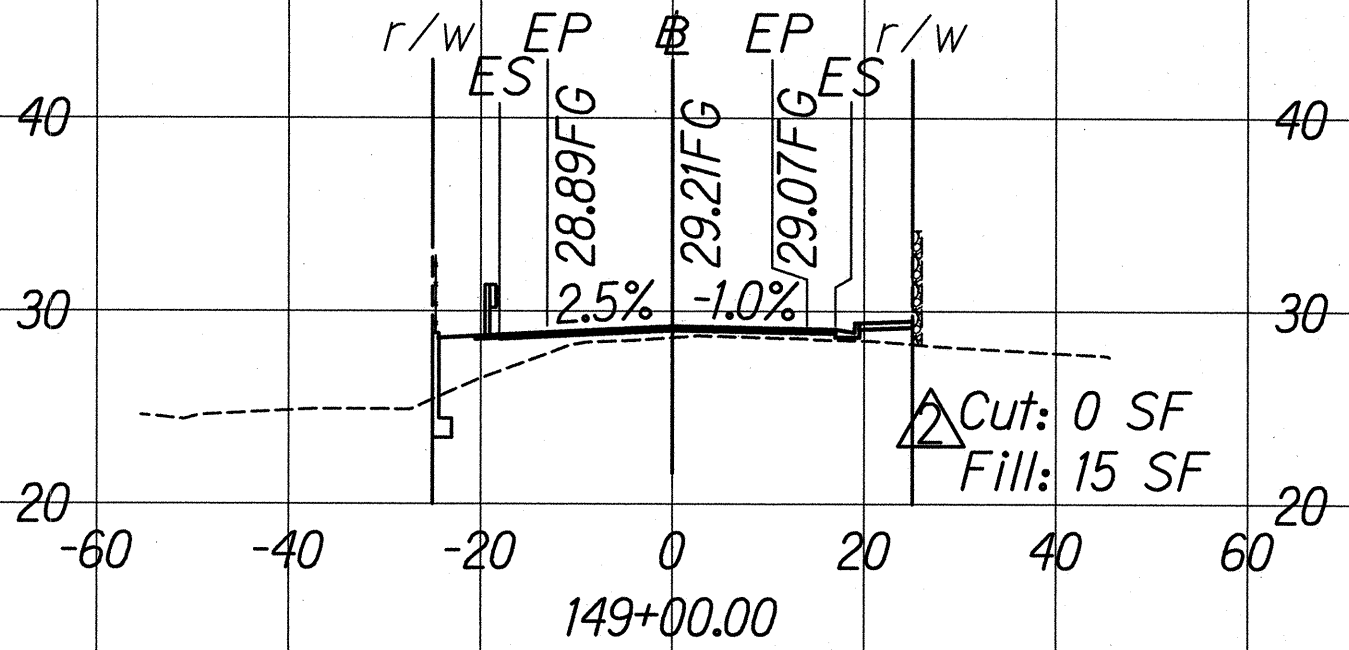
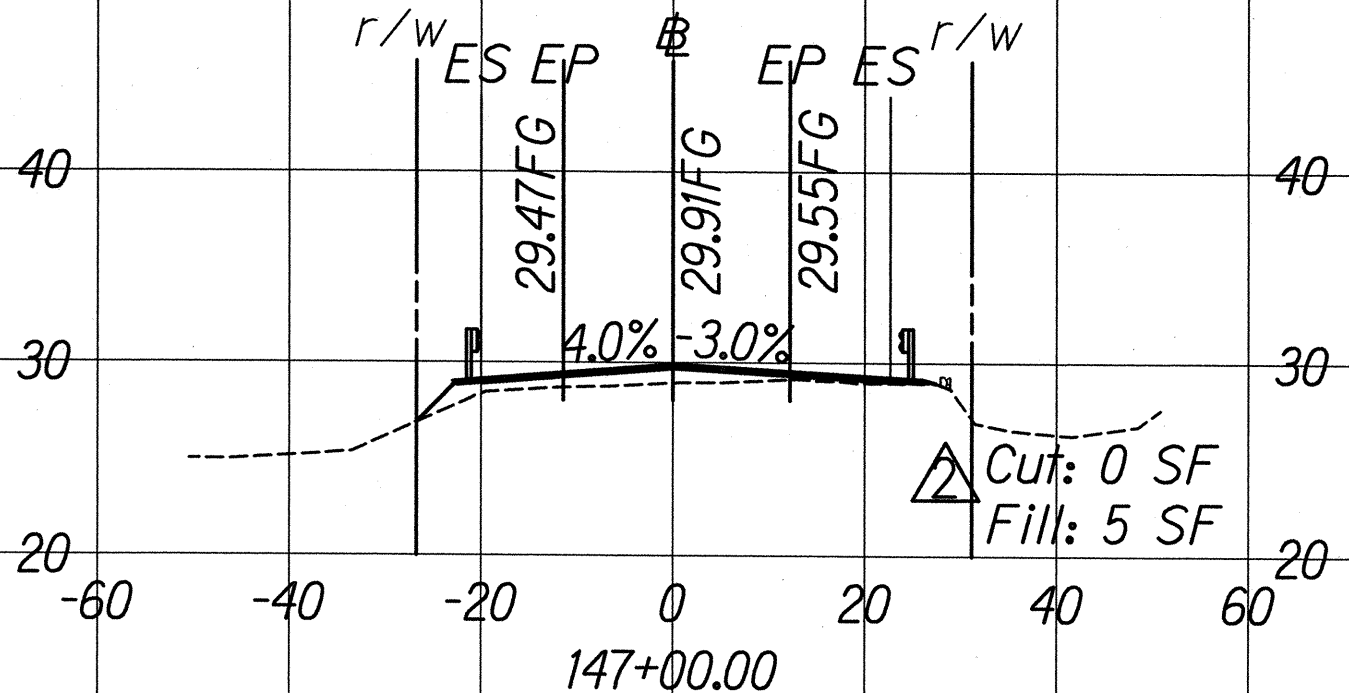
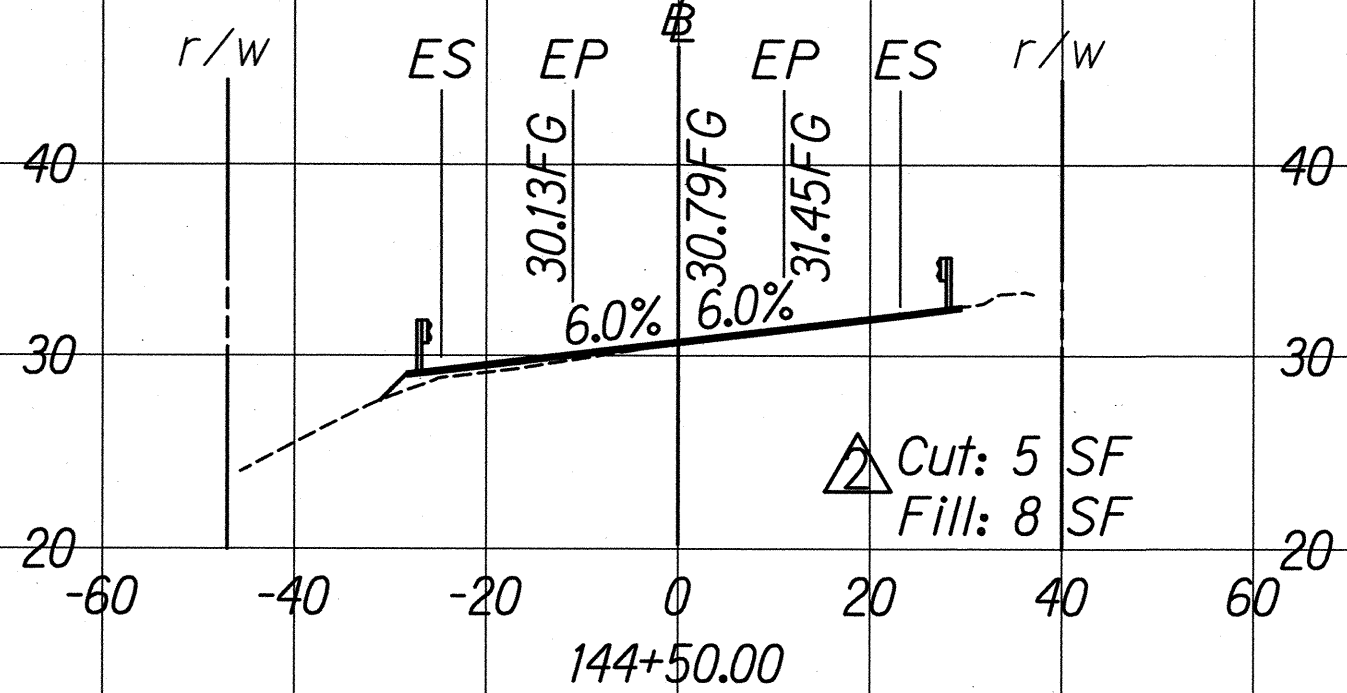
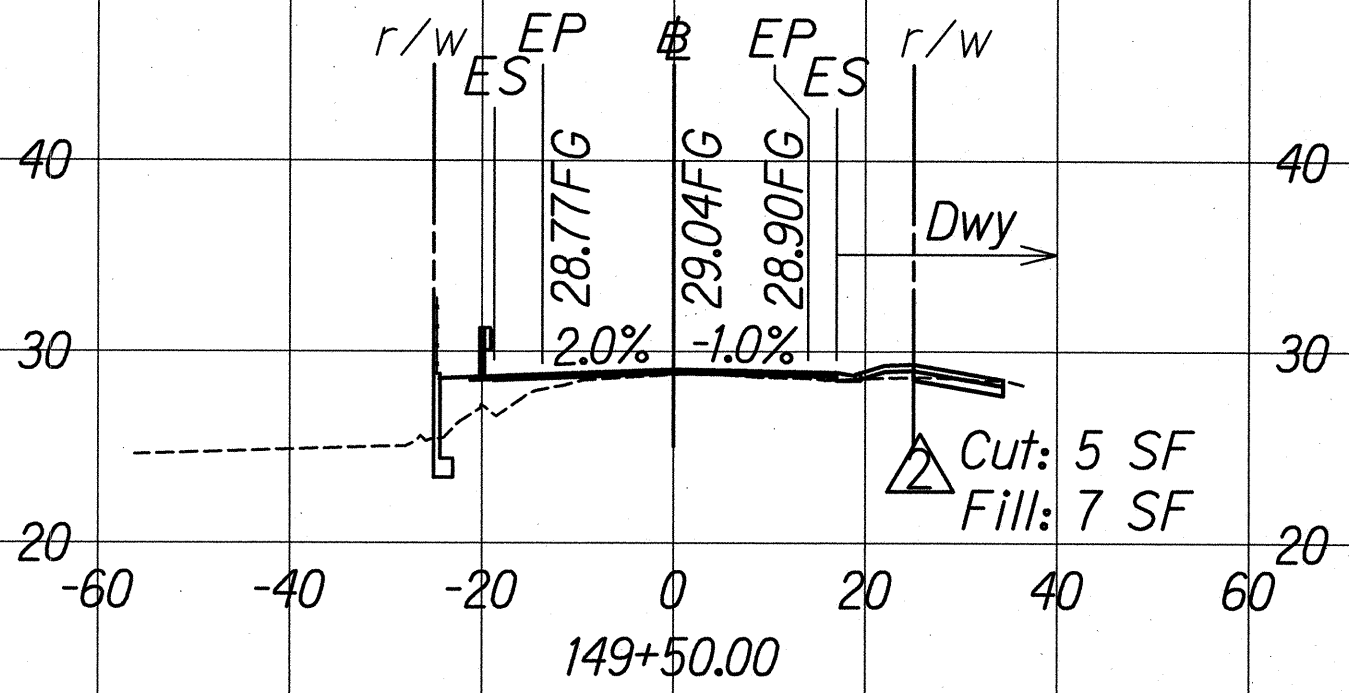
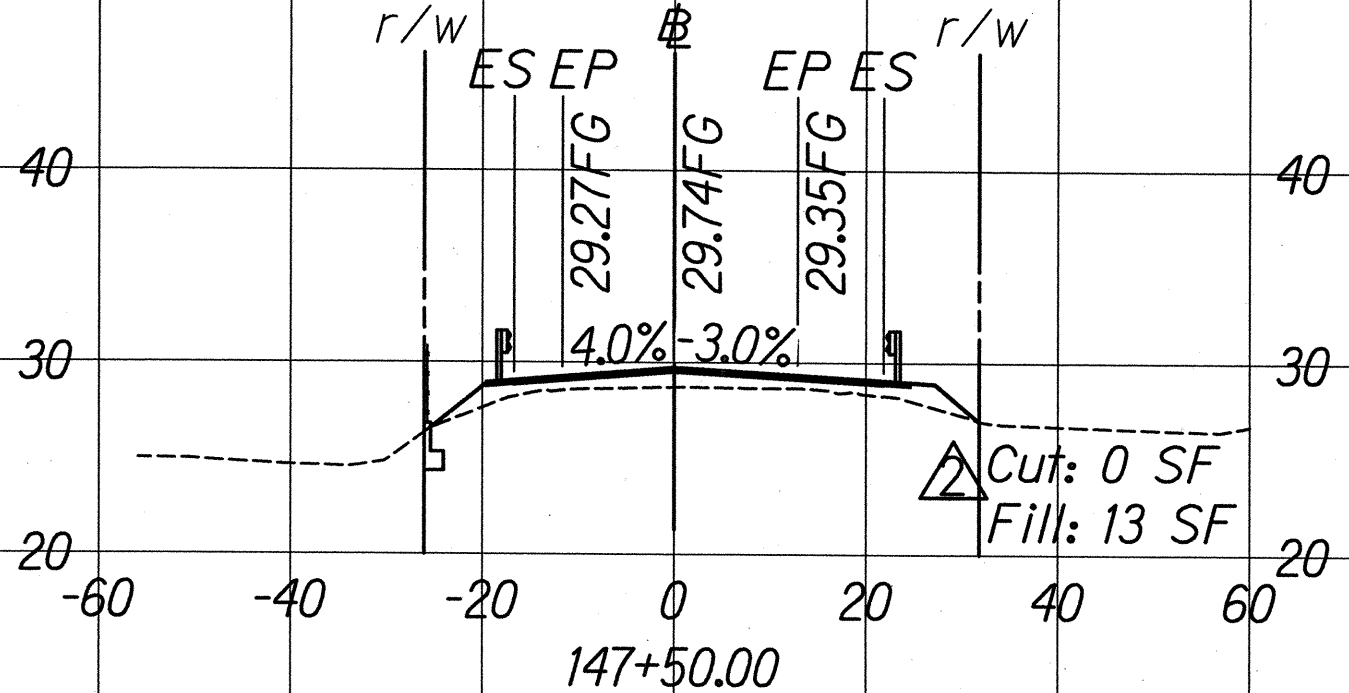
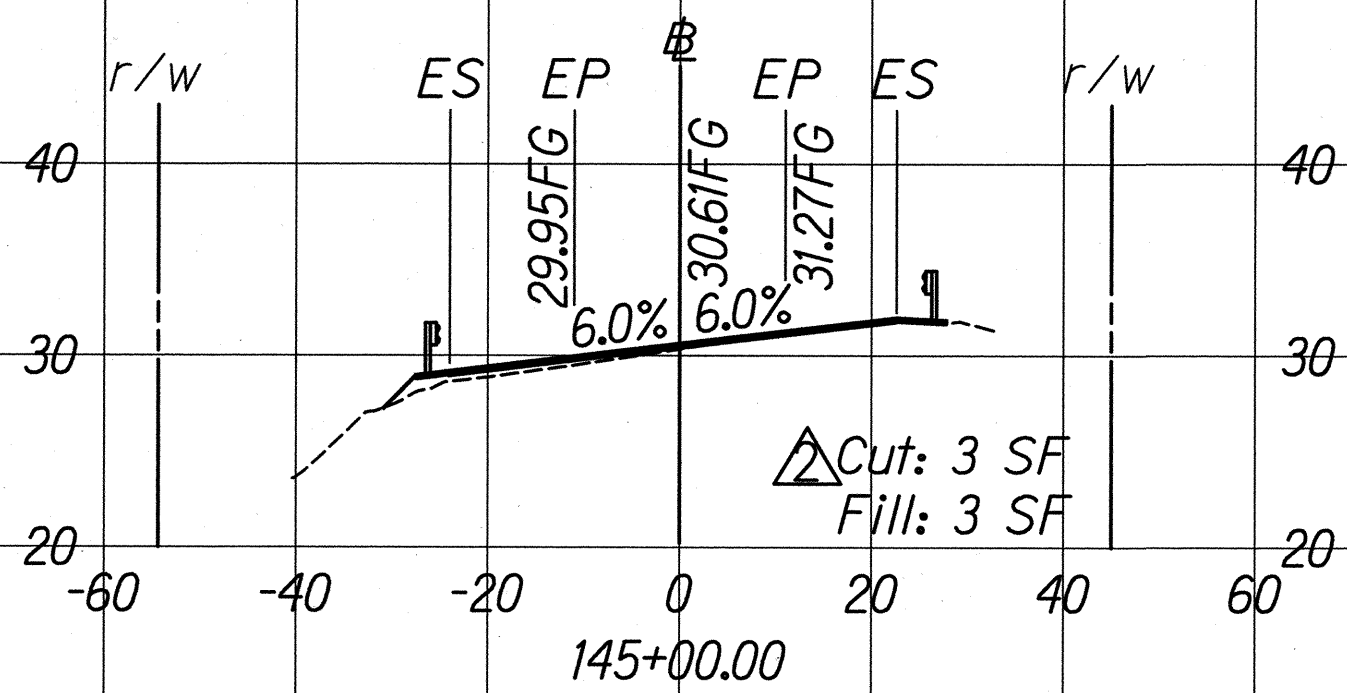
10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 1	OF 7 SHEETS

ADD. 111

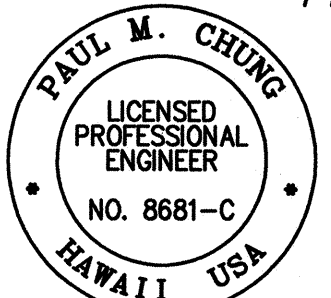
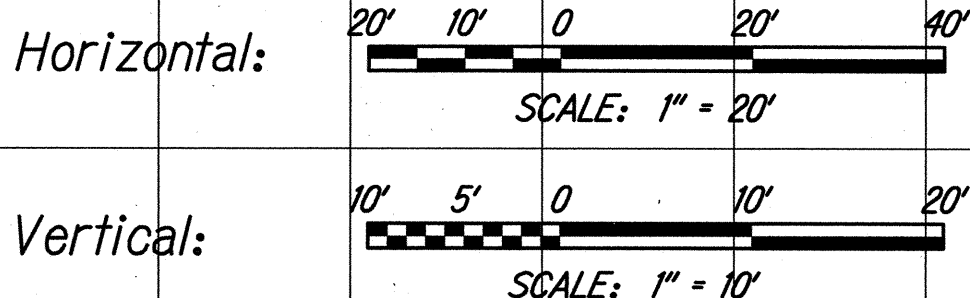
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ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

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



GRAPHICAL SCALES:

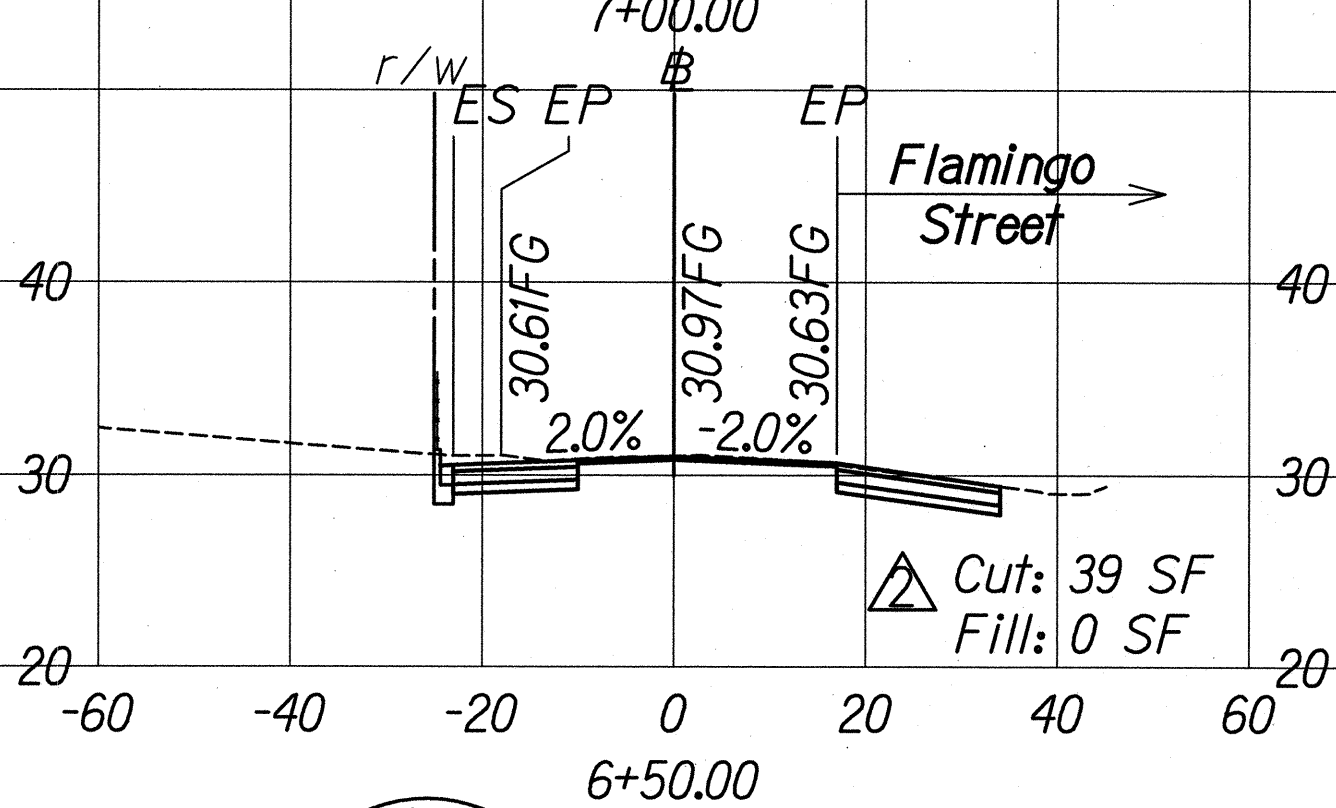
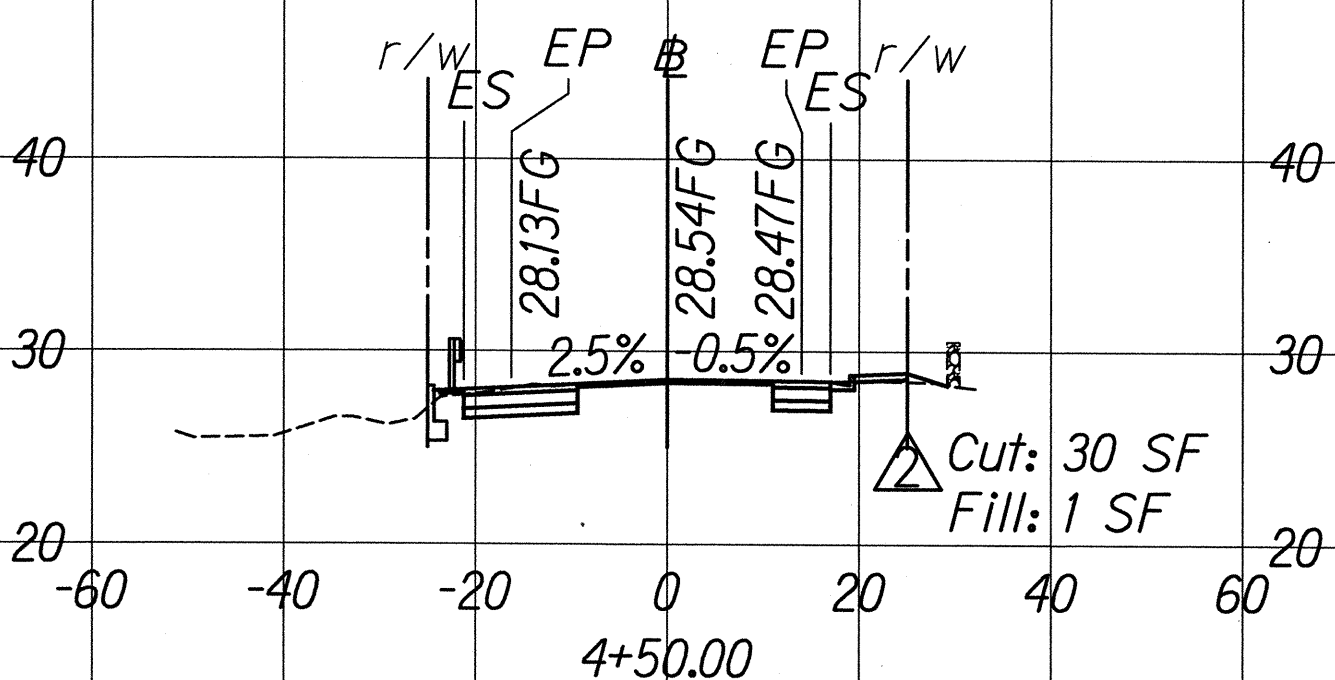
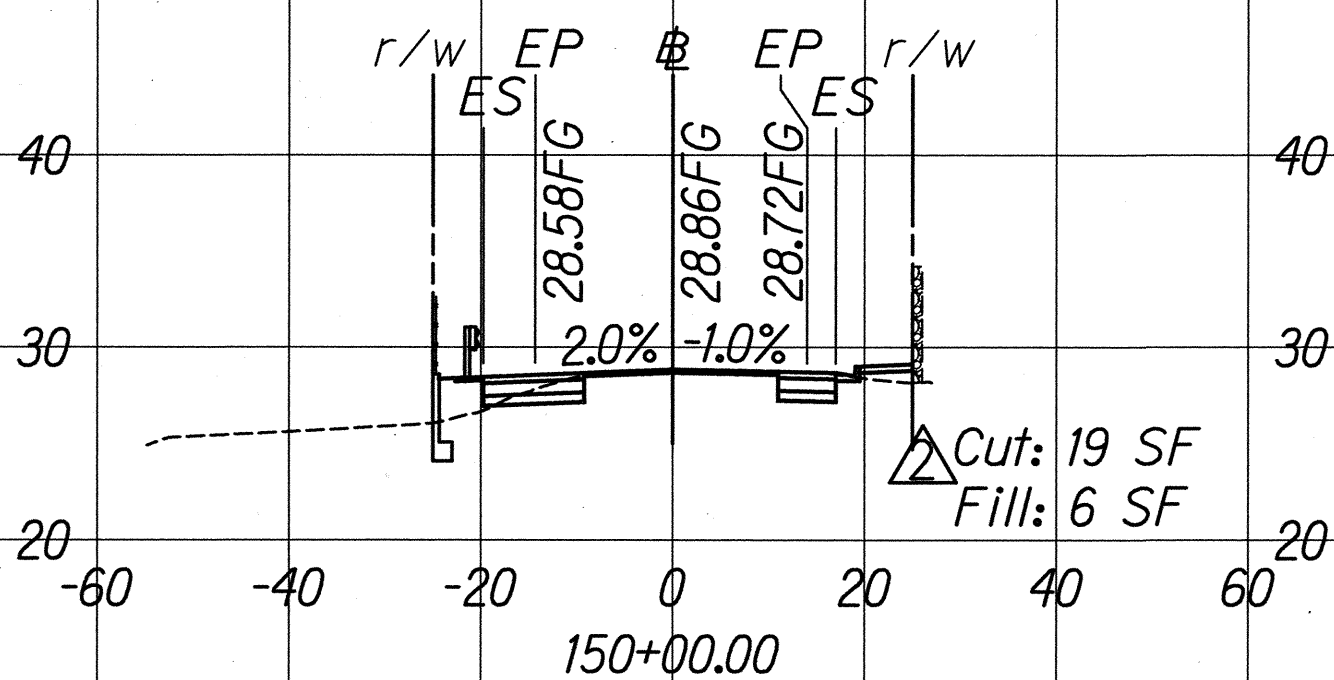
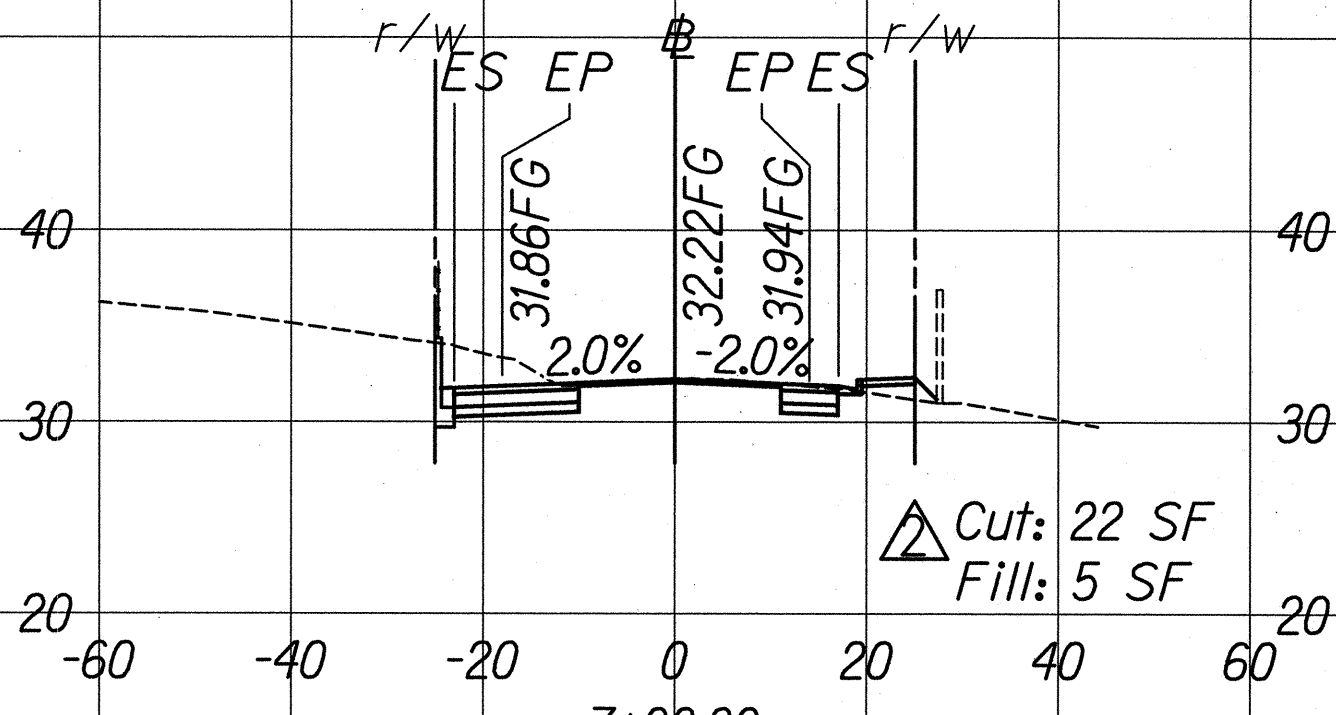
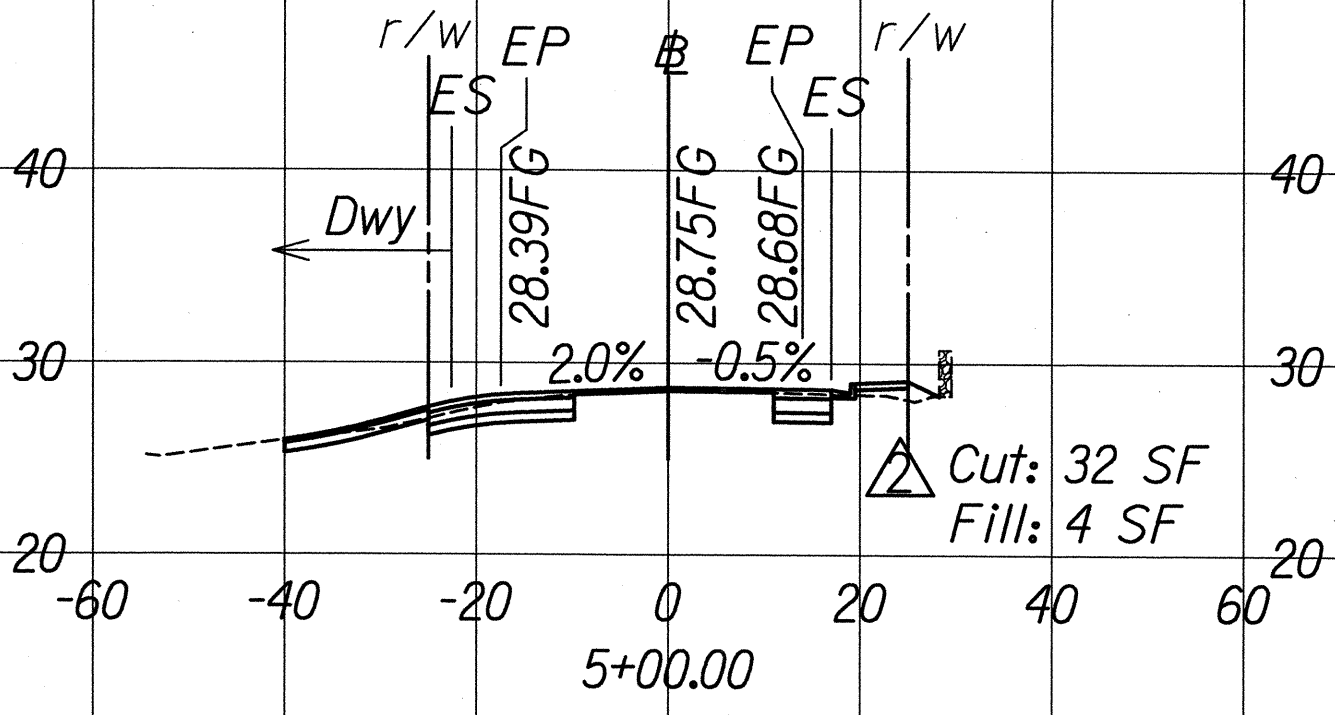
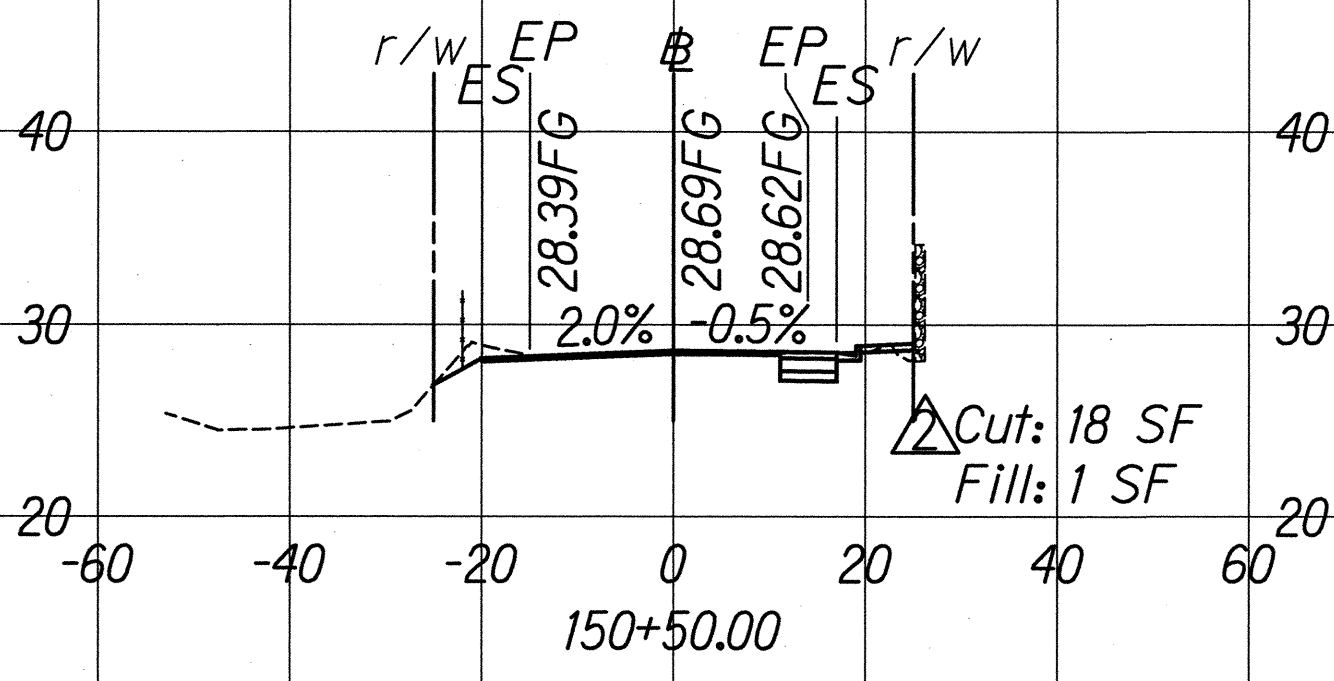
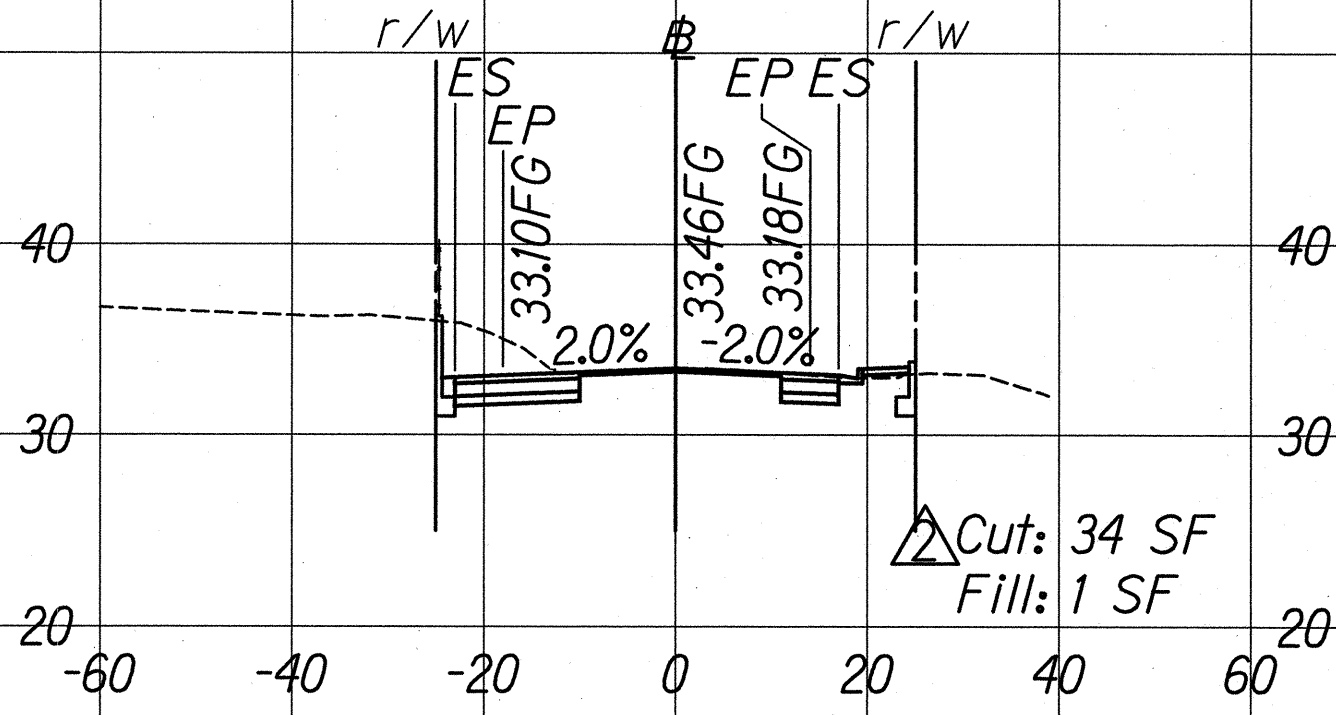
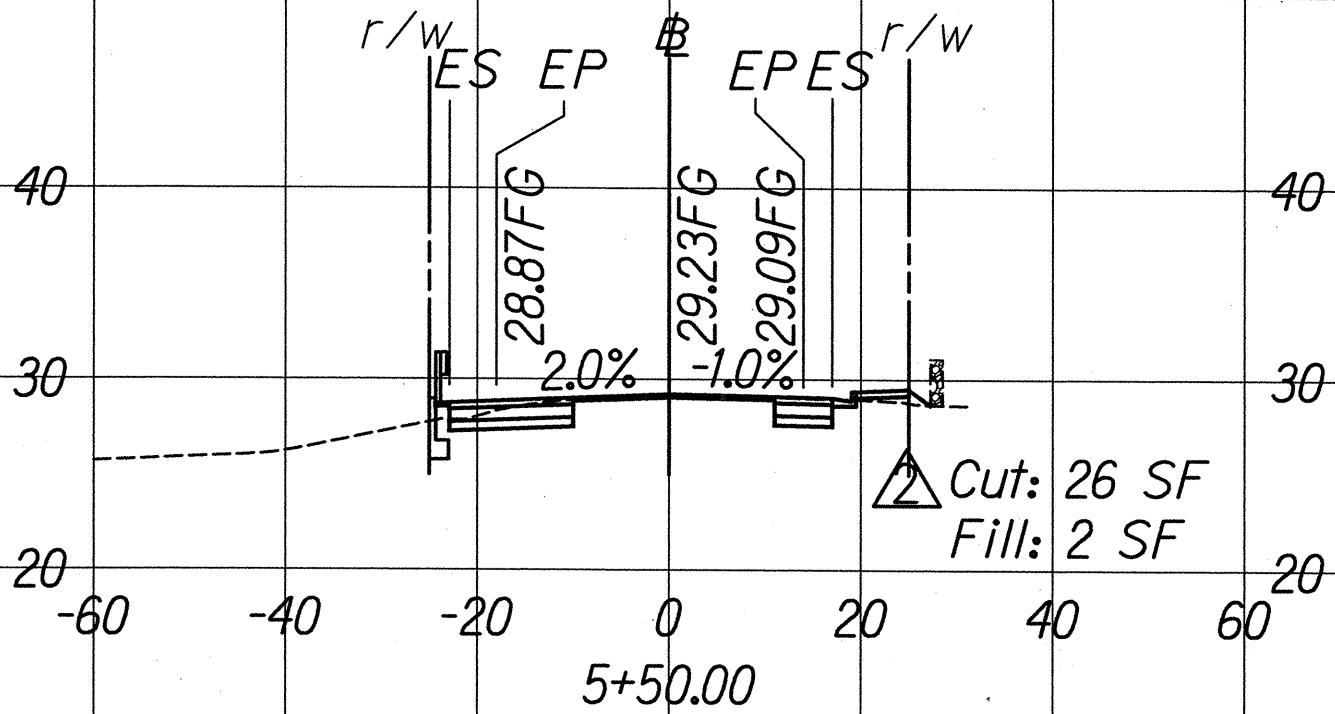
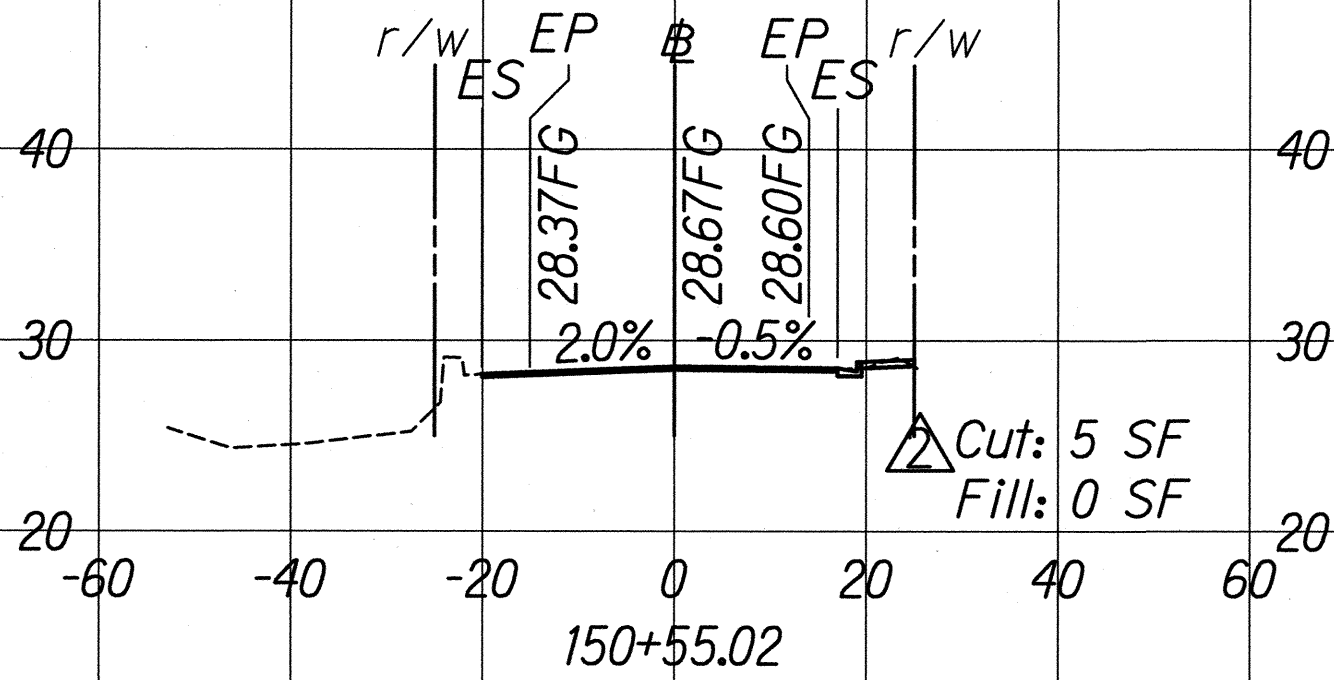
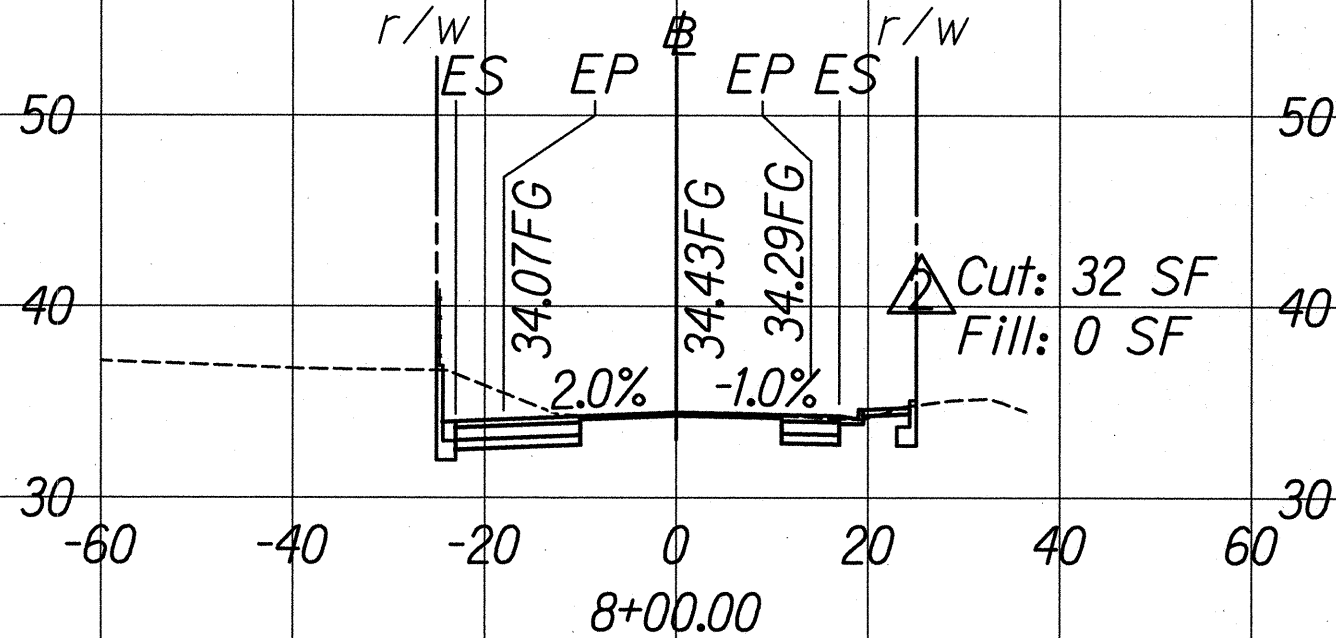
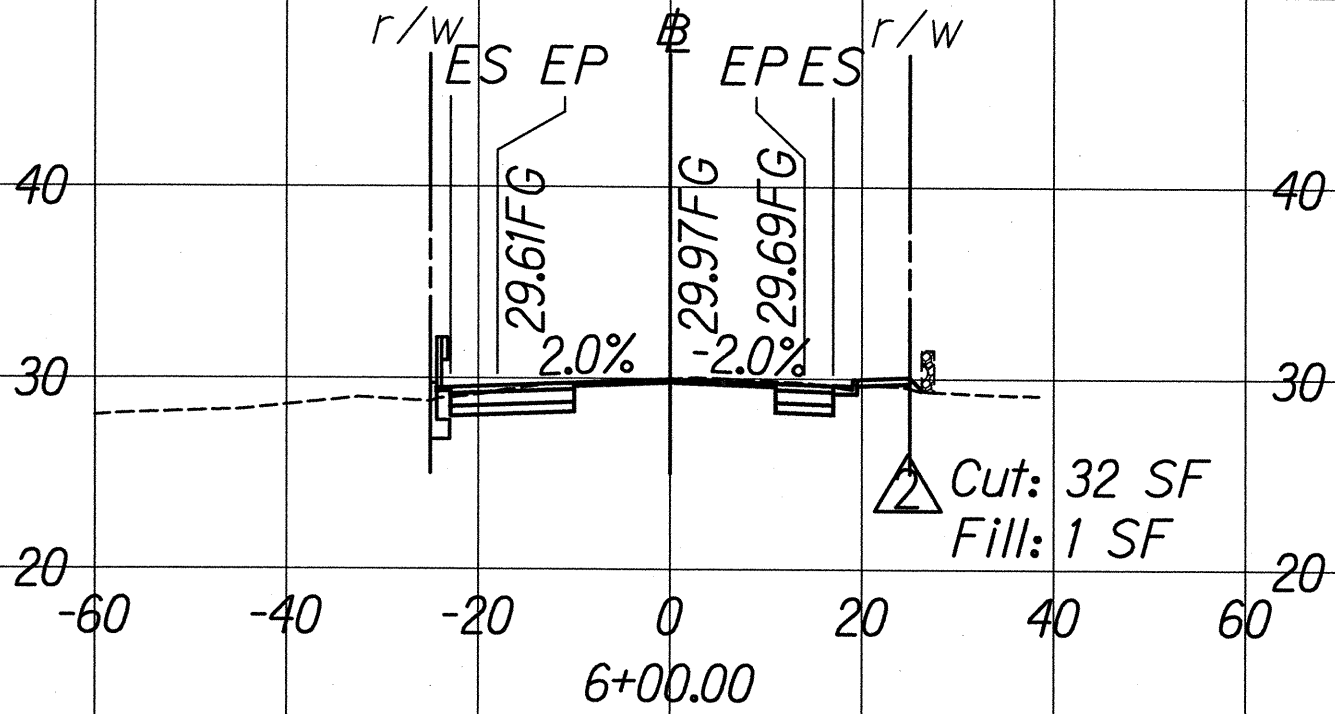
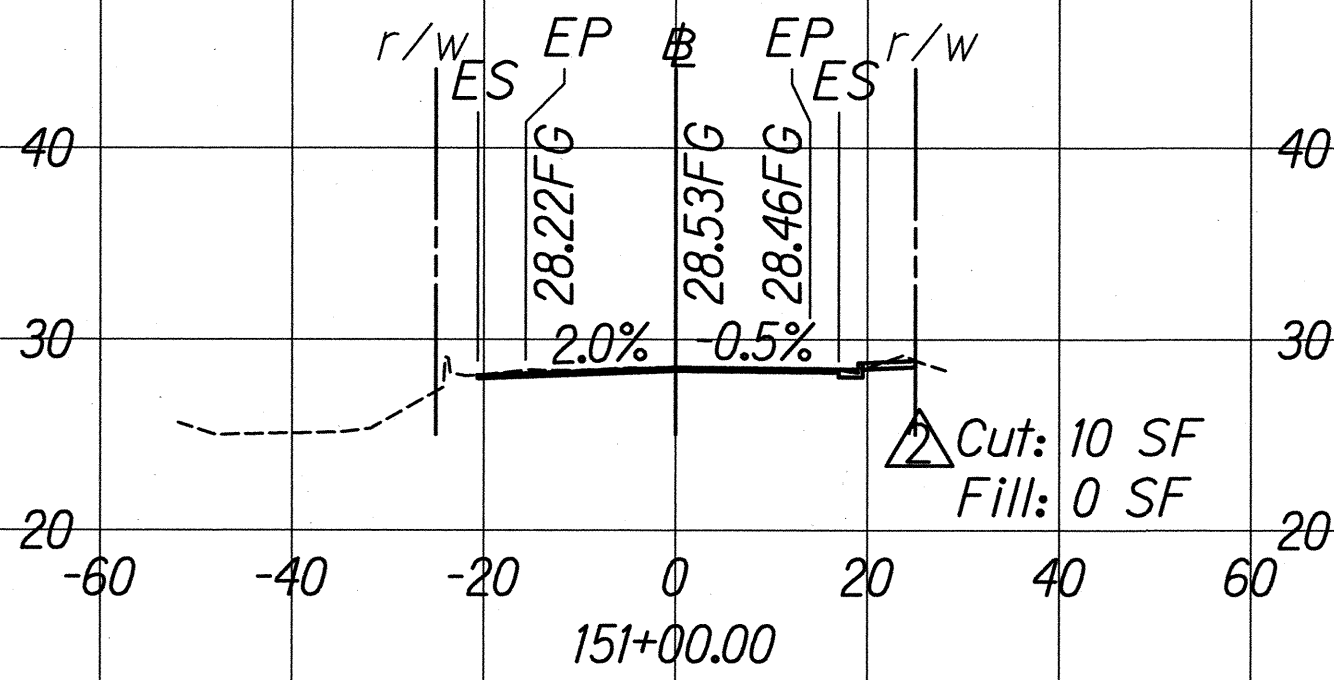


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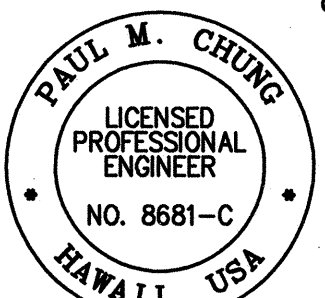
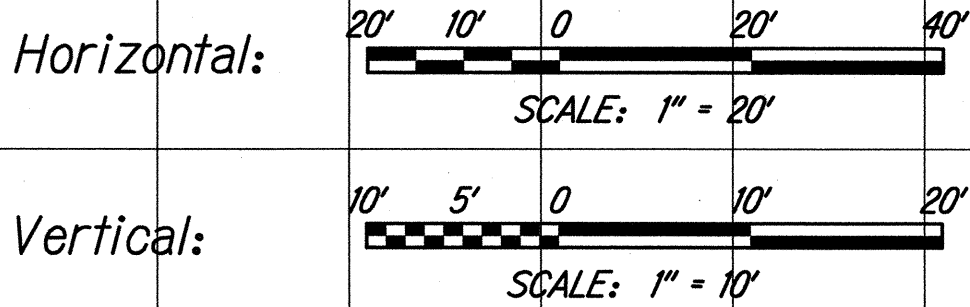
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10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 2	OF 7 SHEETS

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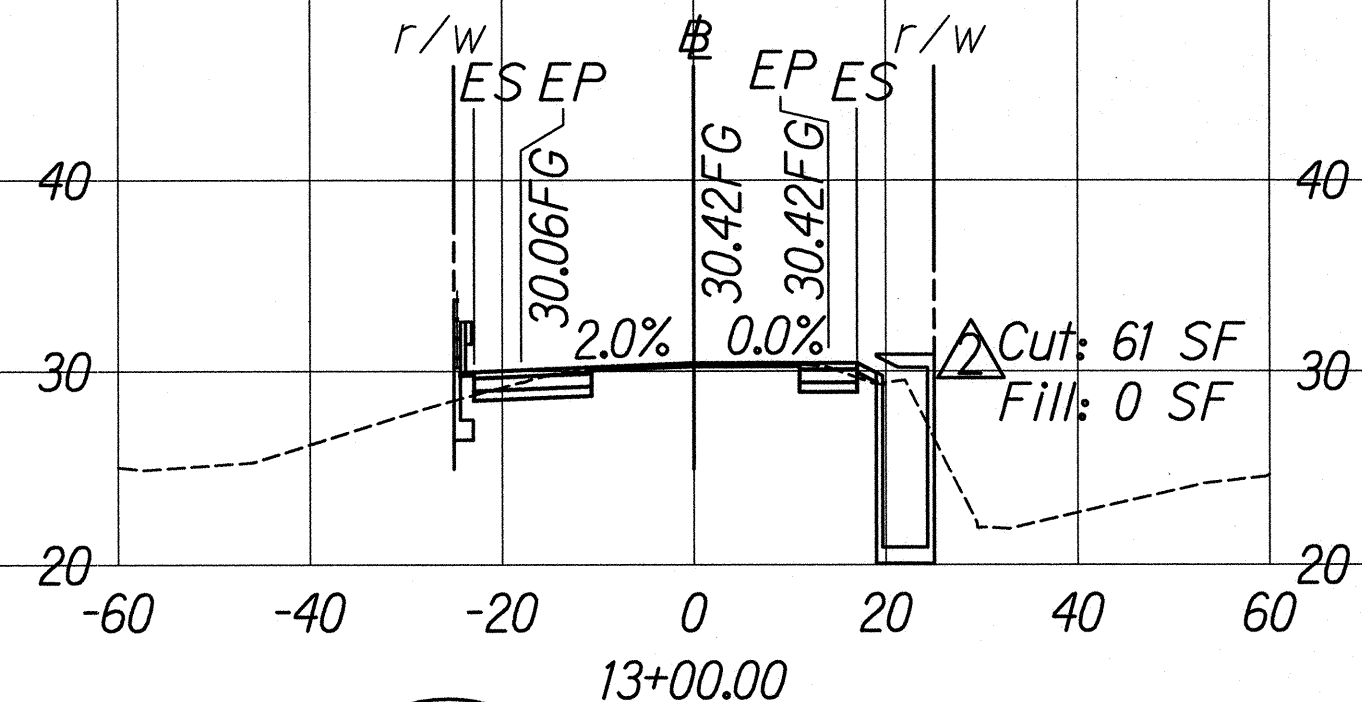
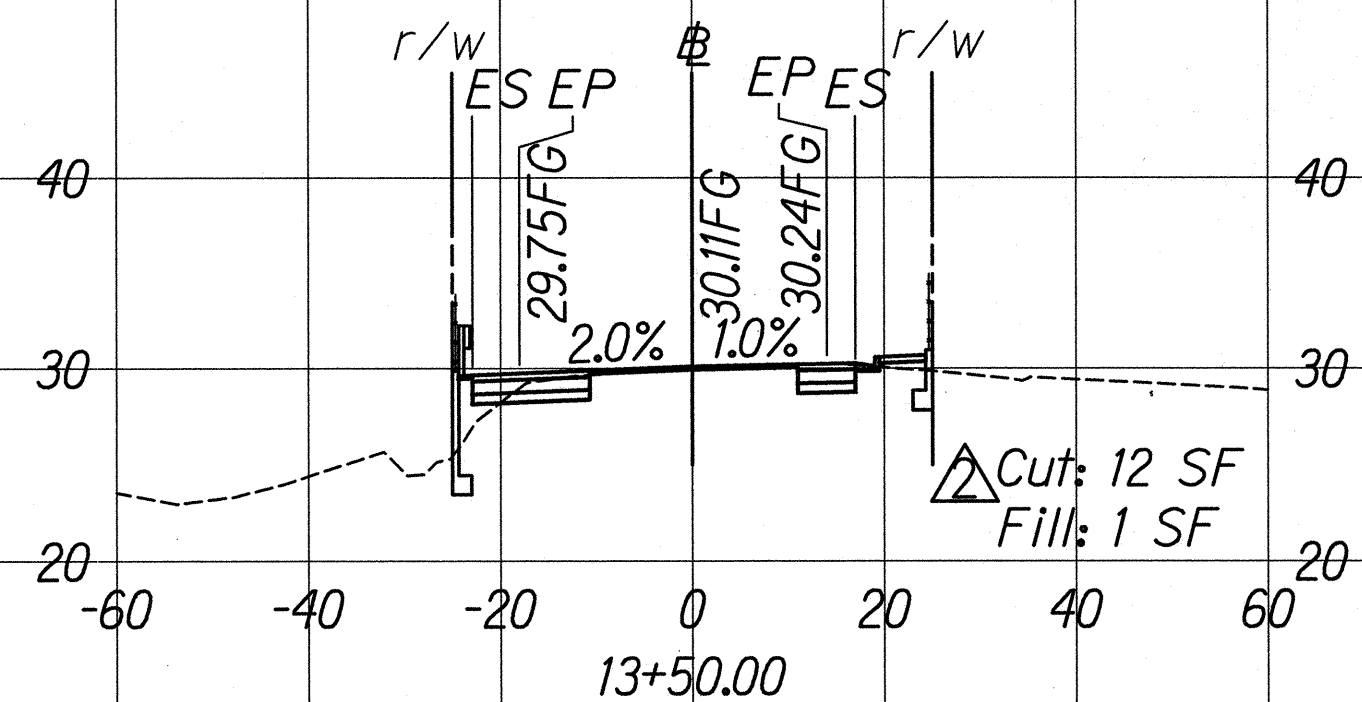
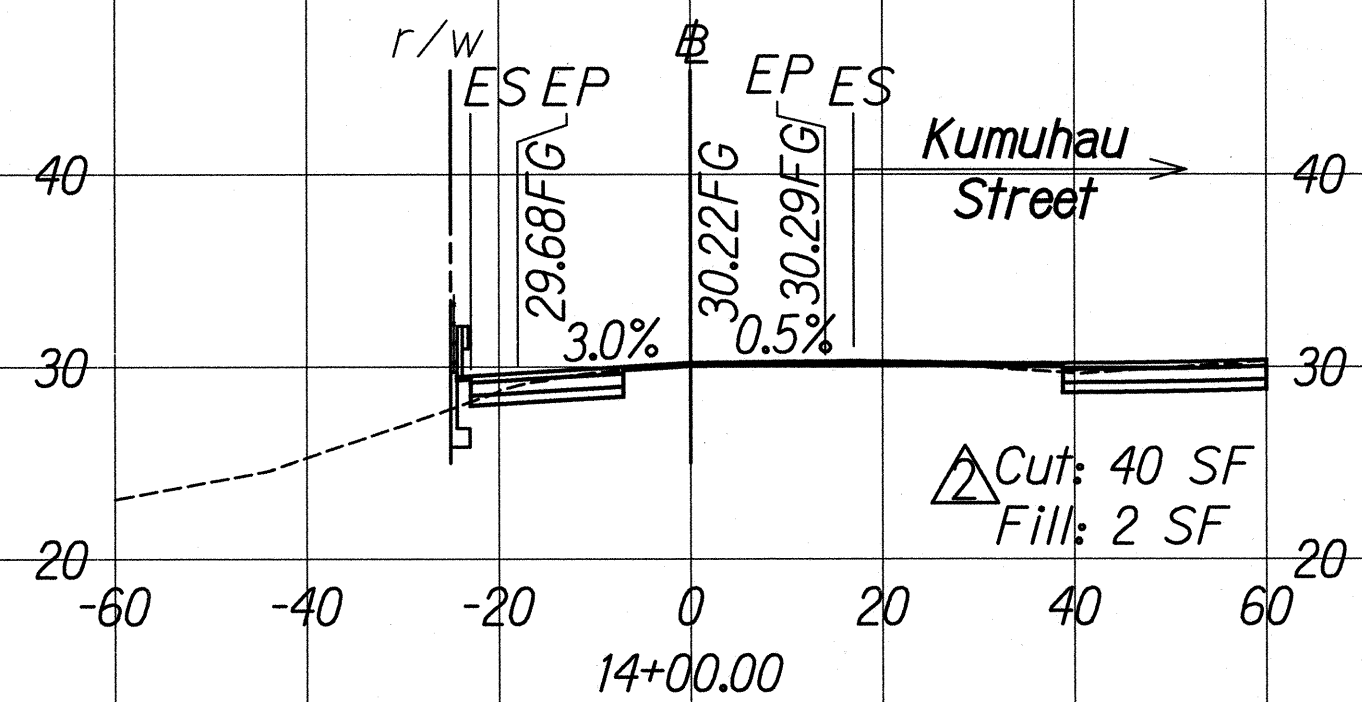
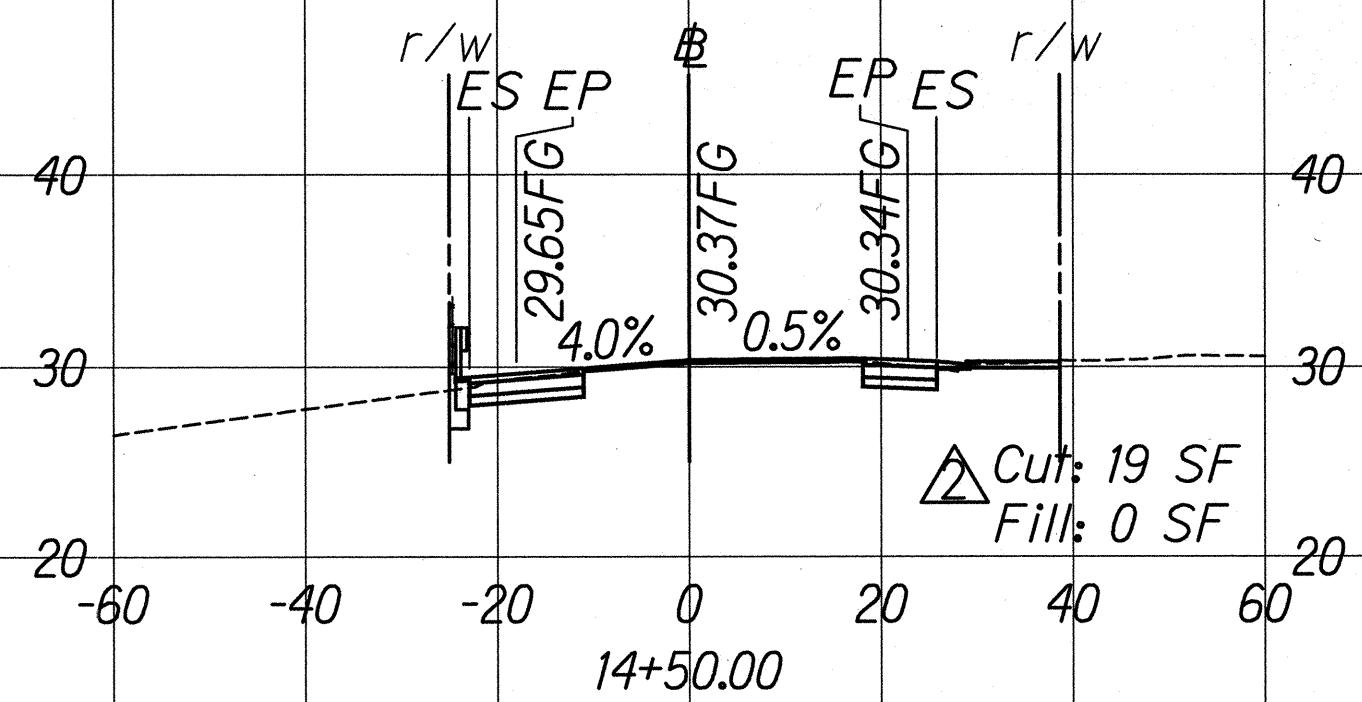
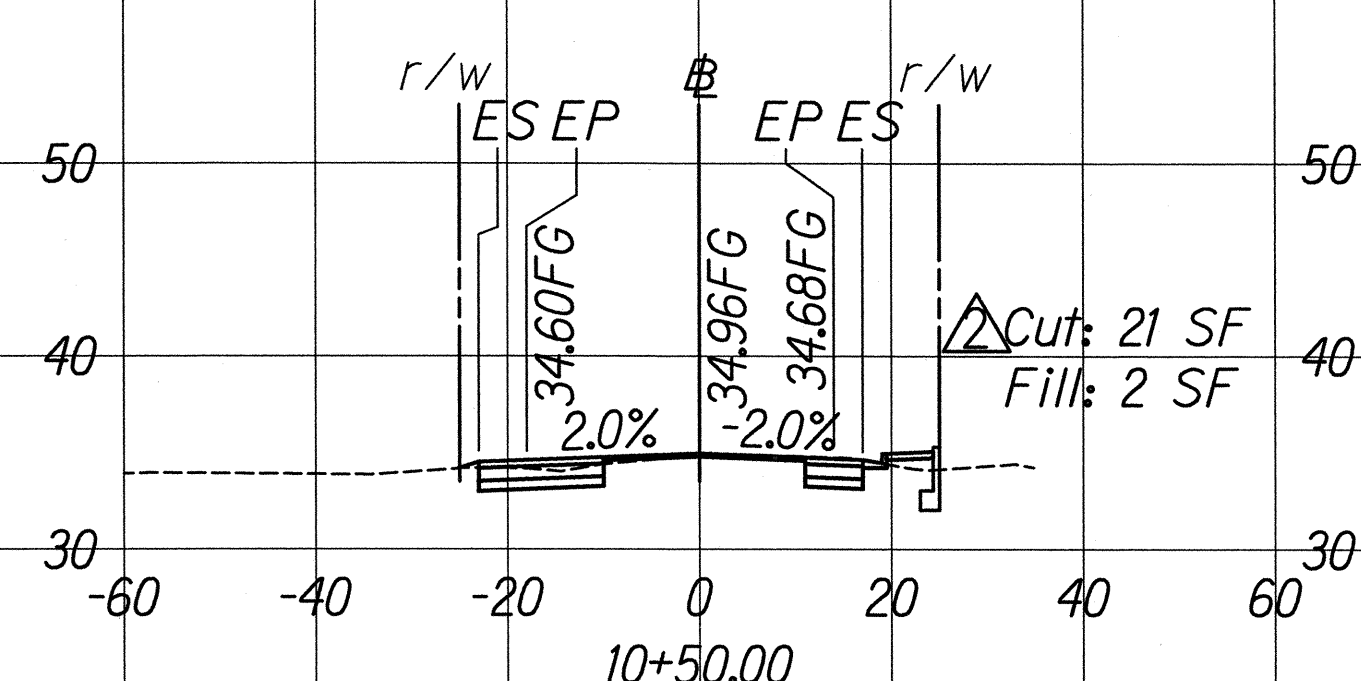
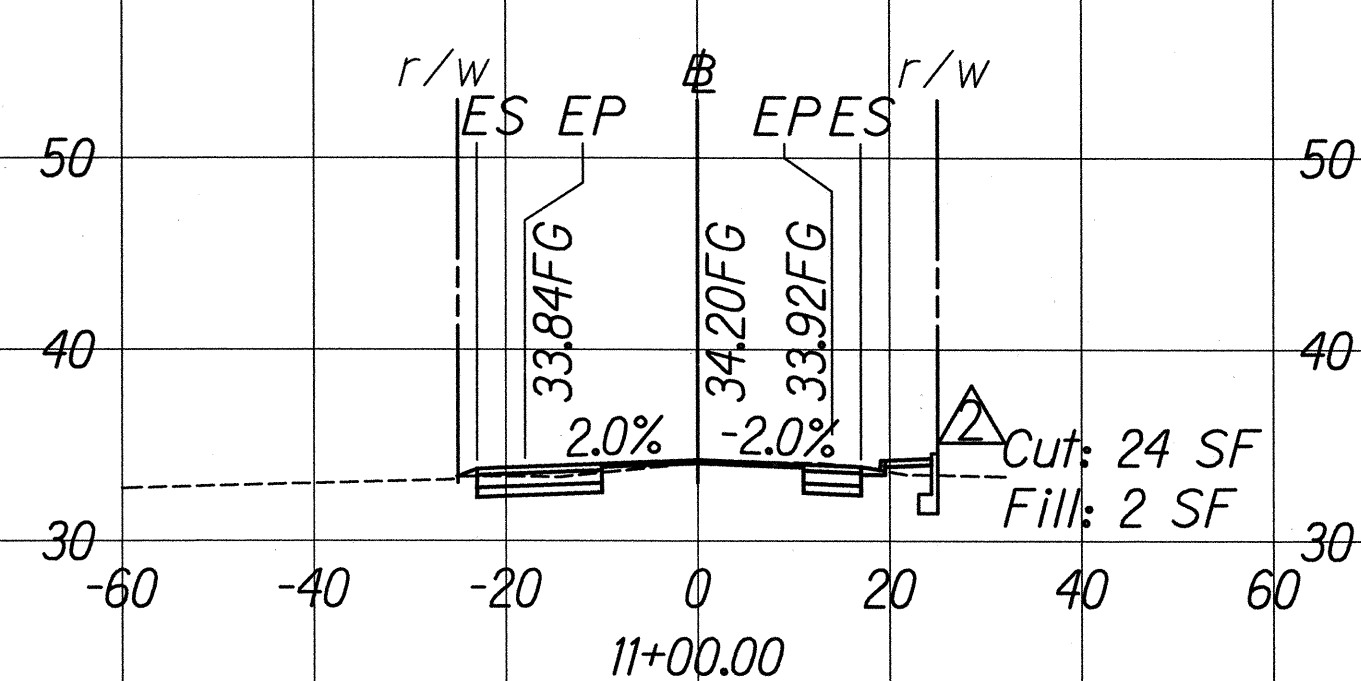
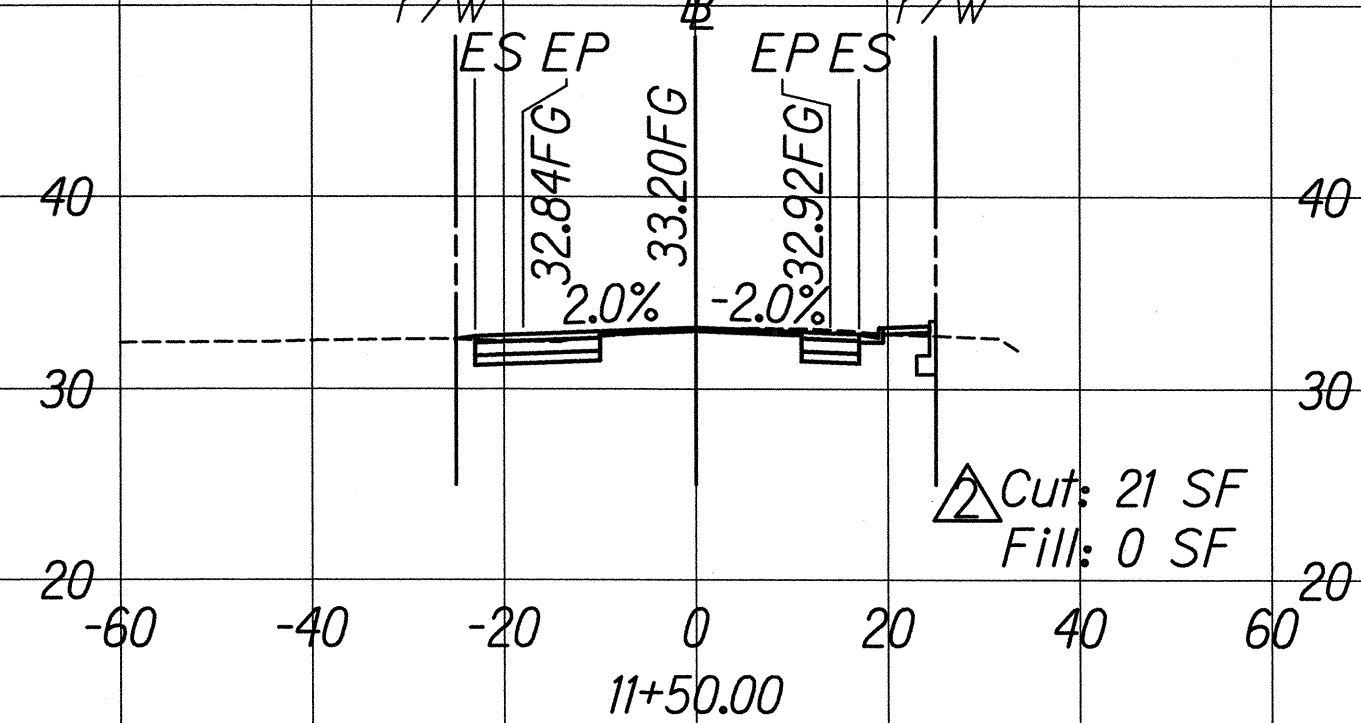
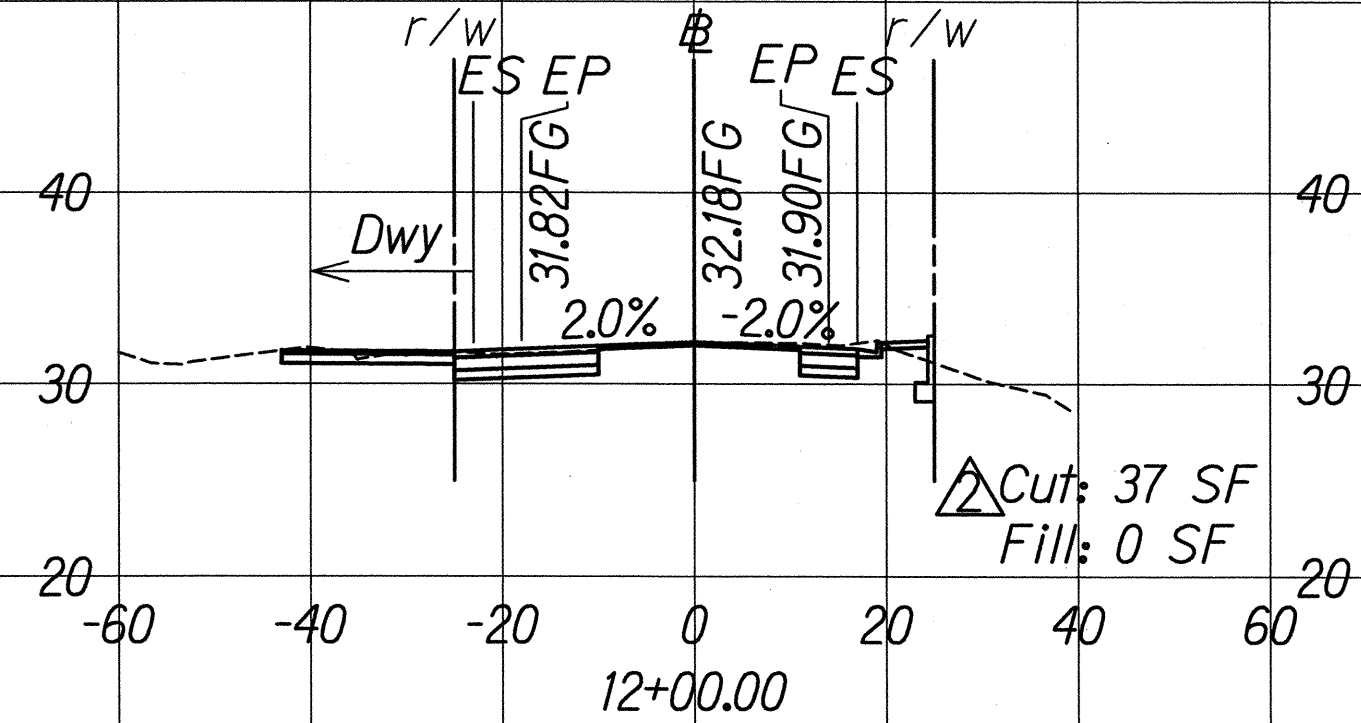
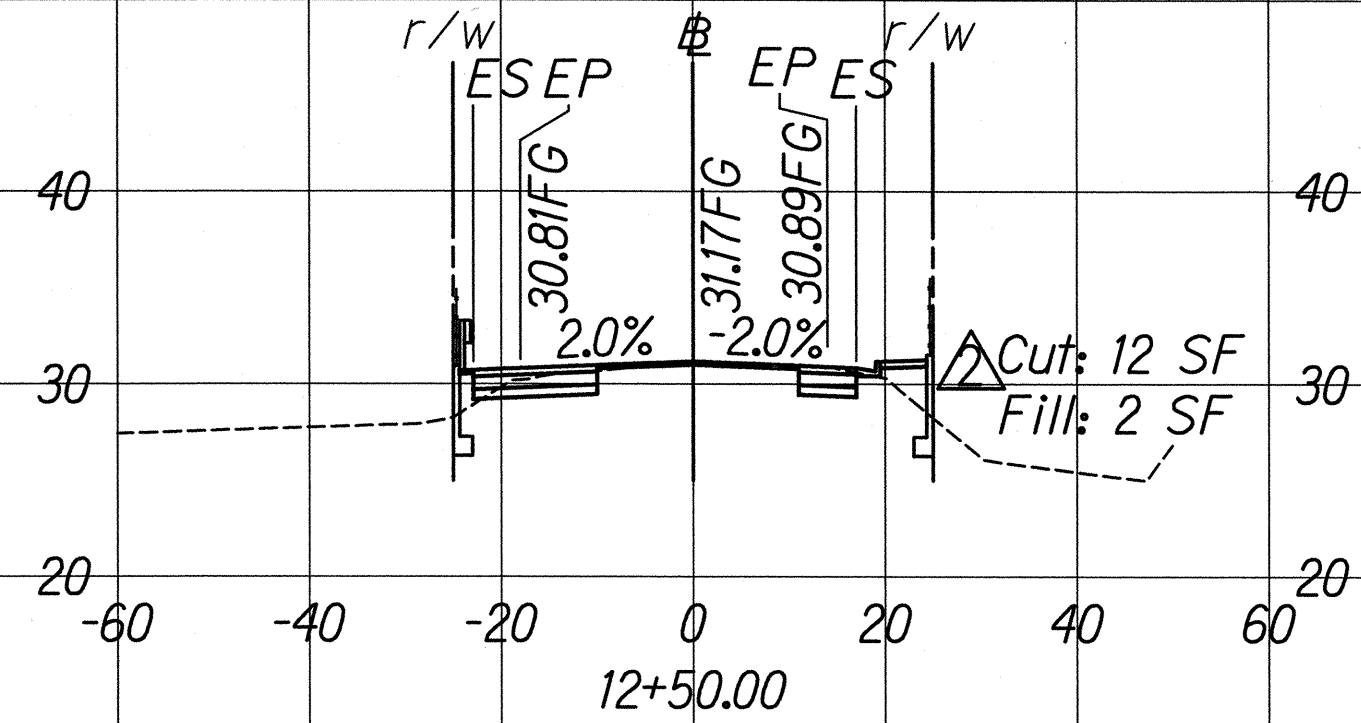
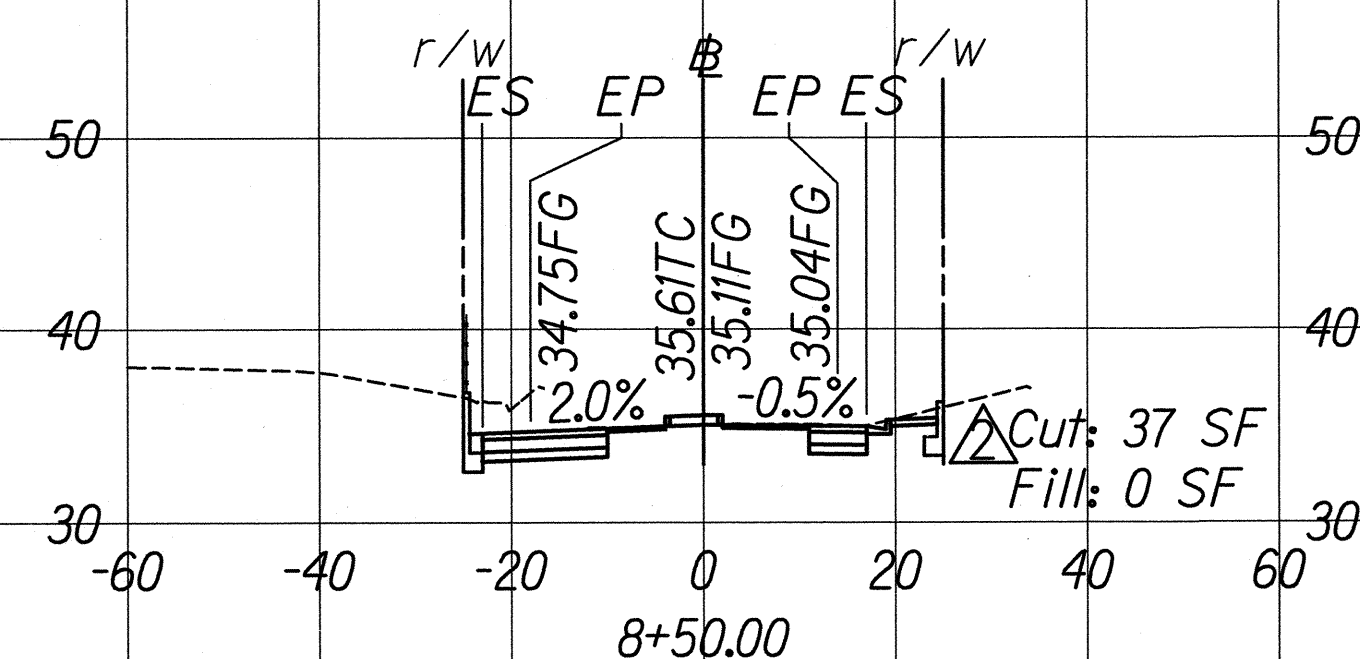
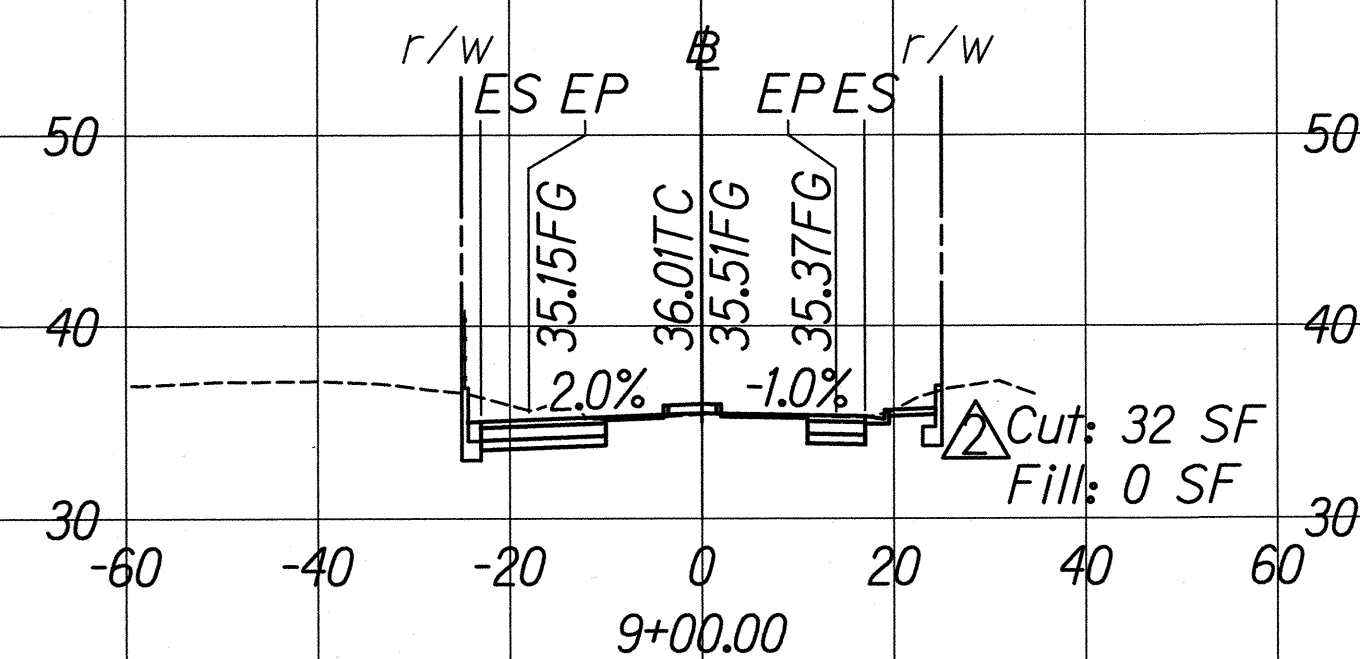
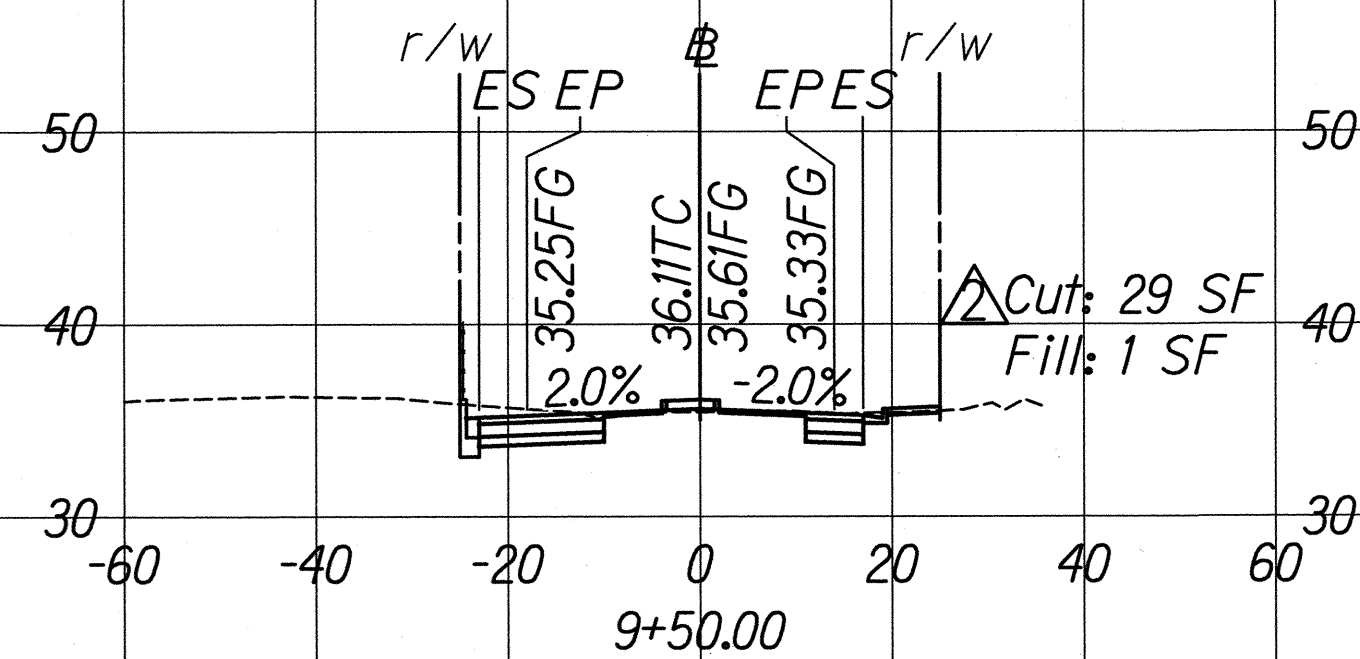
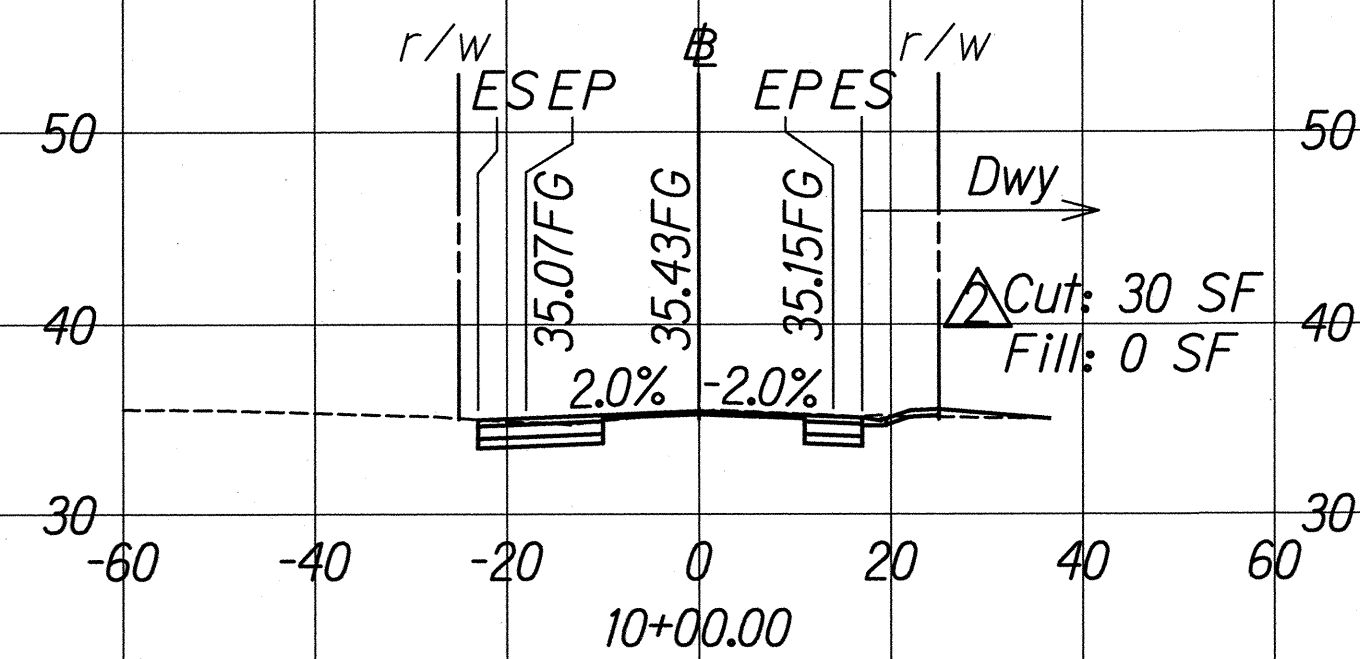
SIGNATURE: [Signature] EXPIRATION DATE OF THE LICENSE: 04/30/16

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

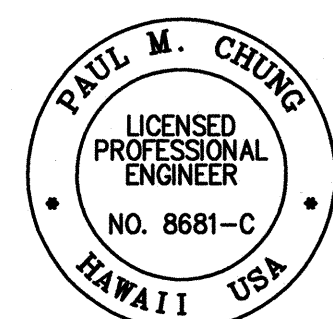
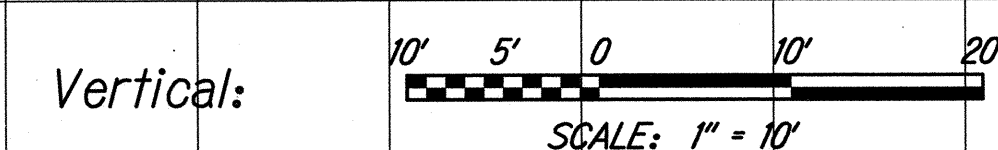
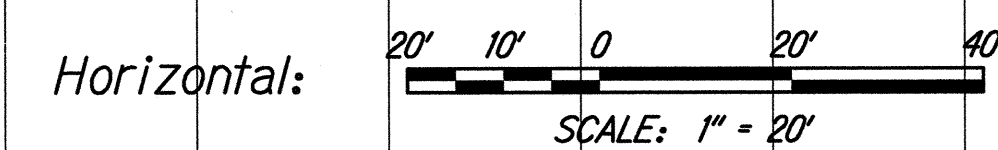
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ORIGINAL PLAN	DATE
NO. 1	10/23/15
NO. 2	10/23/15
NO. 3	10/23/15
NO. 4	10/23/15
NO. 5	10/23/15
NO. 6	10/23/15
NO. 7	10/23/15
NO. 8	10/23/15
NO. 9	10/23/15
NO. 10	10/23/15

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:

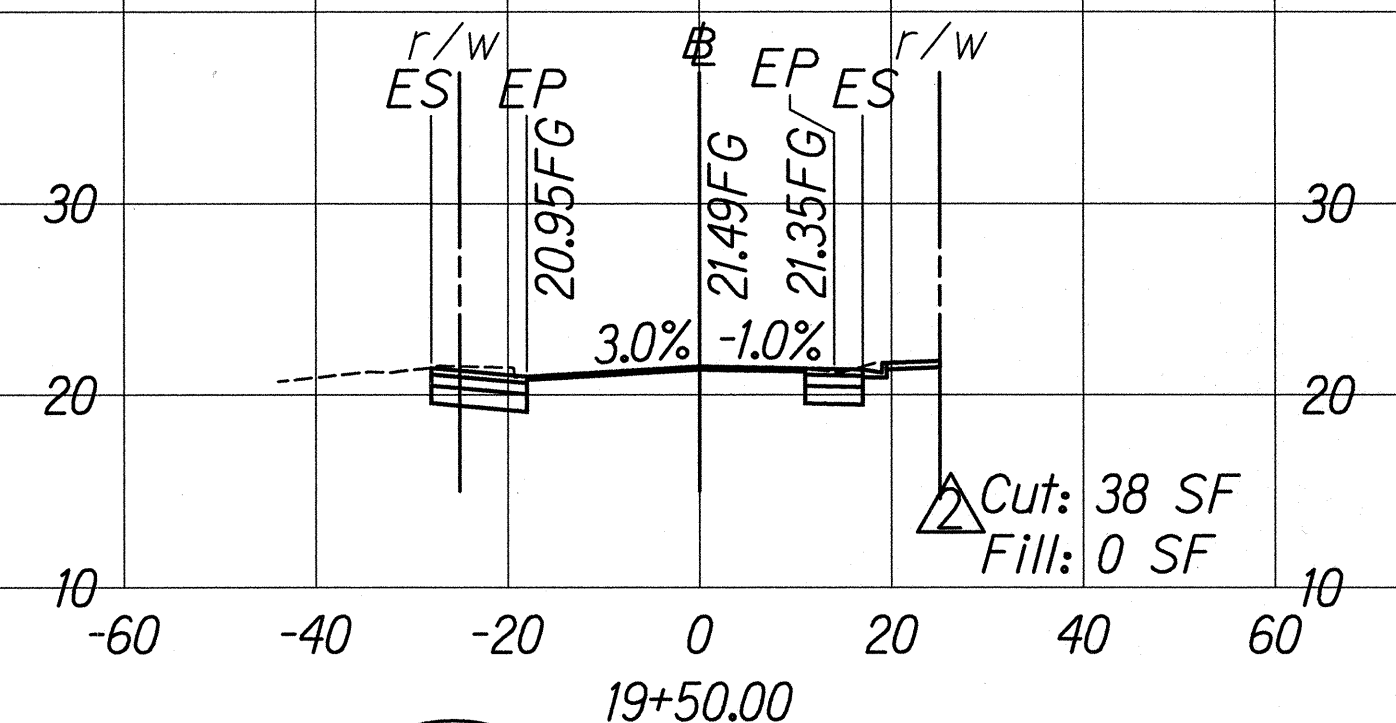
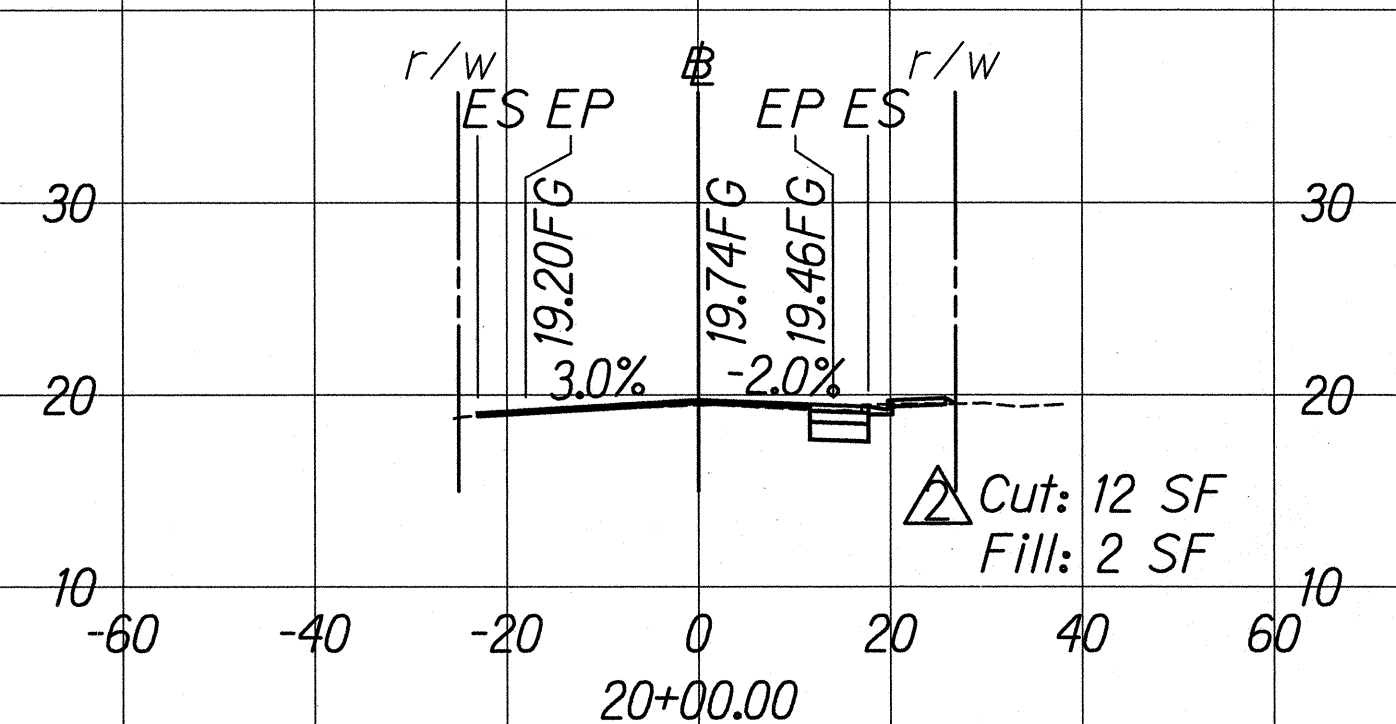
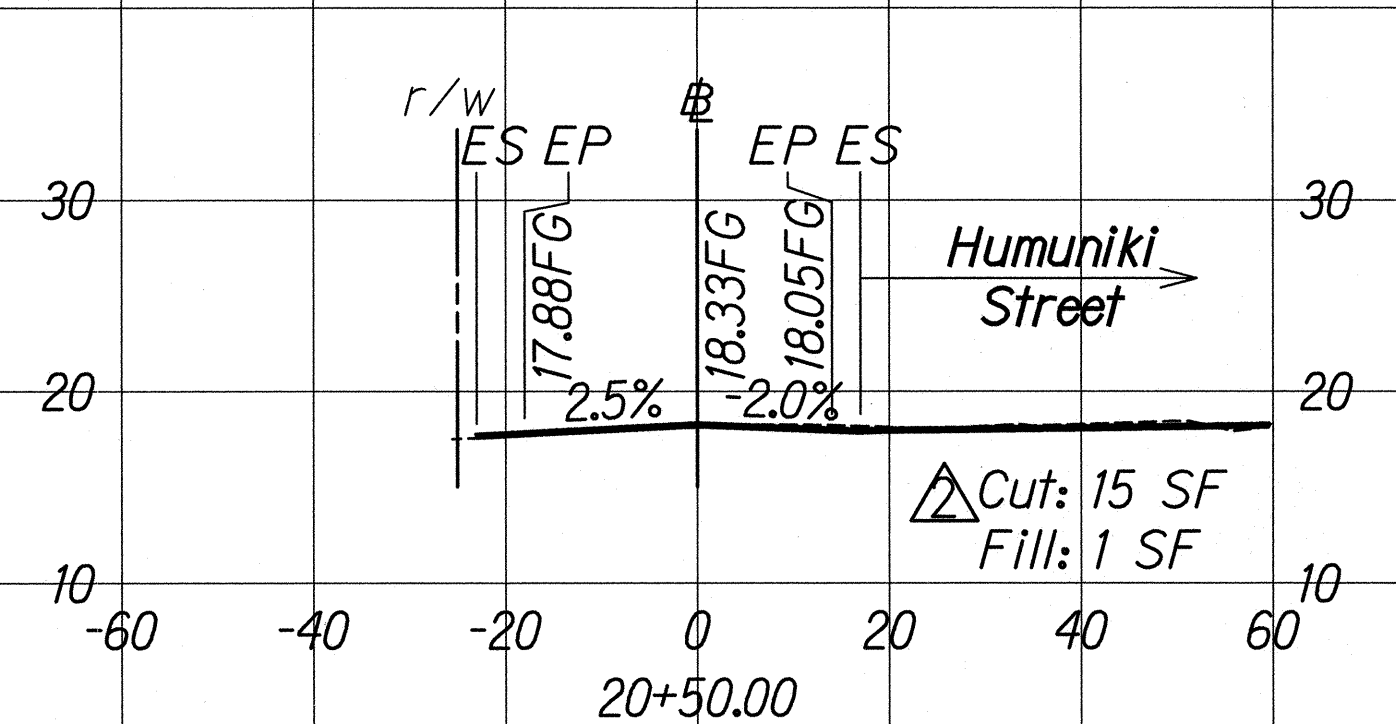
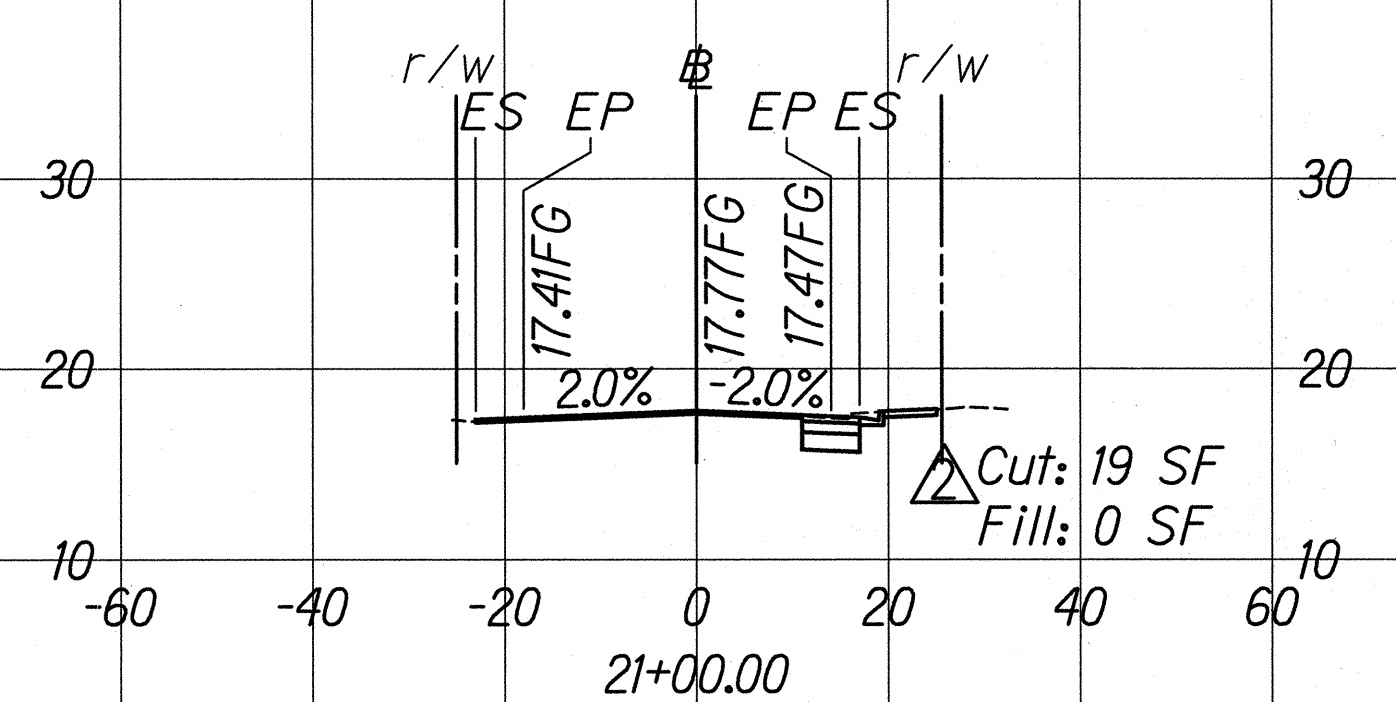
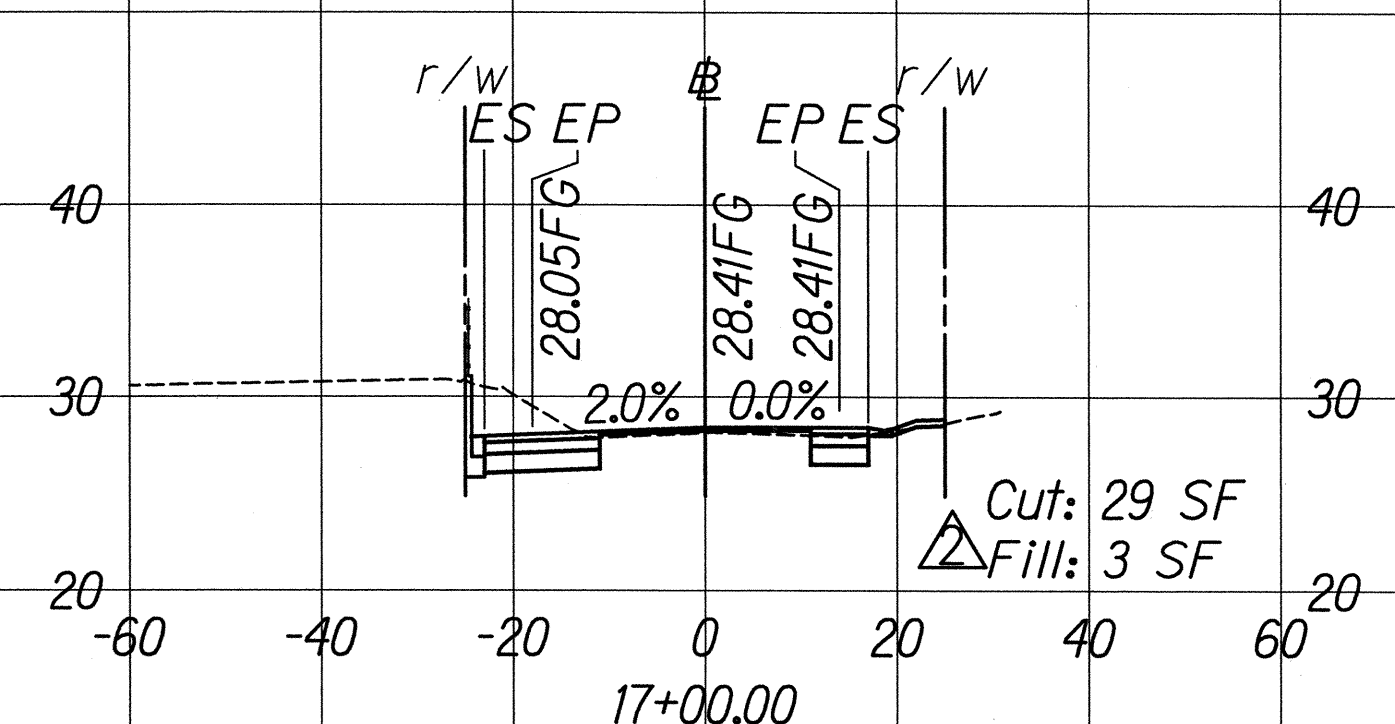
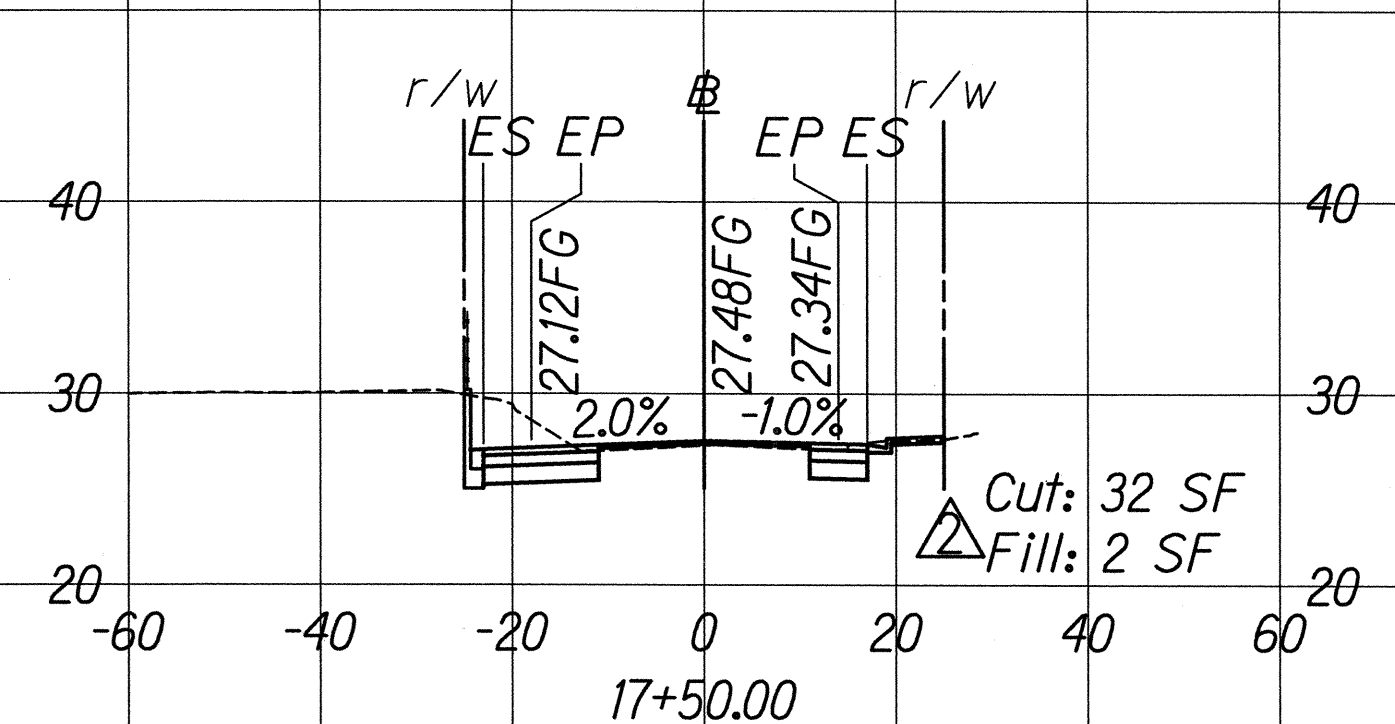
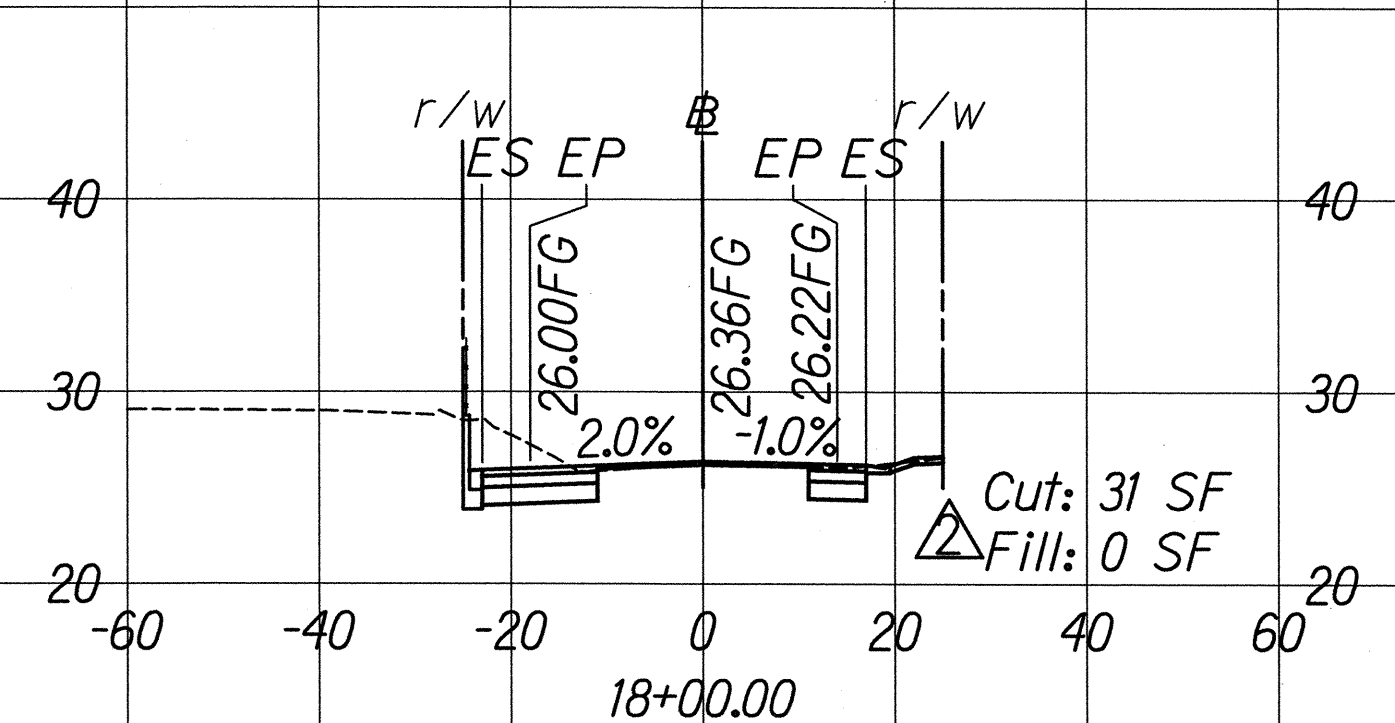
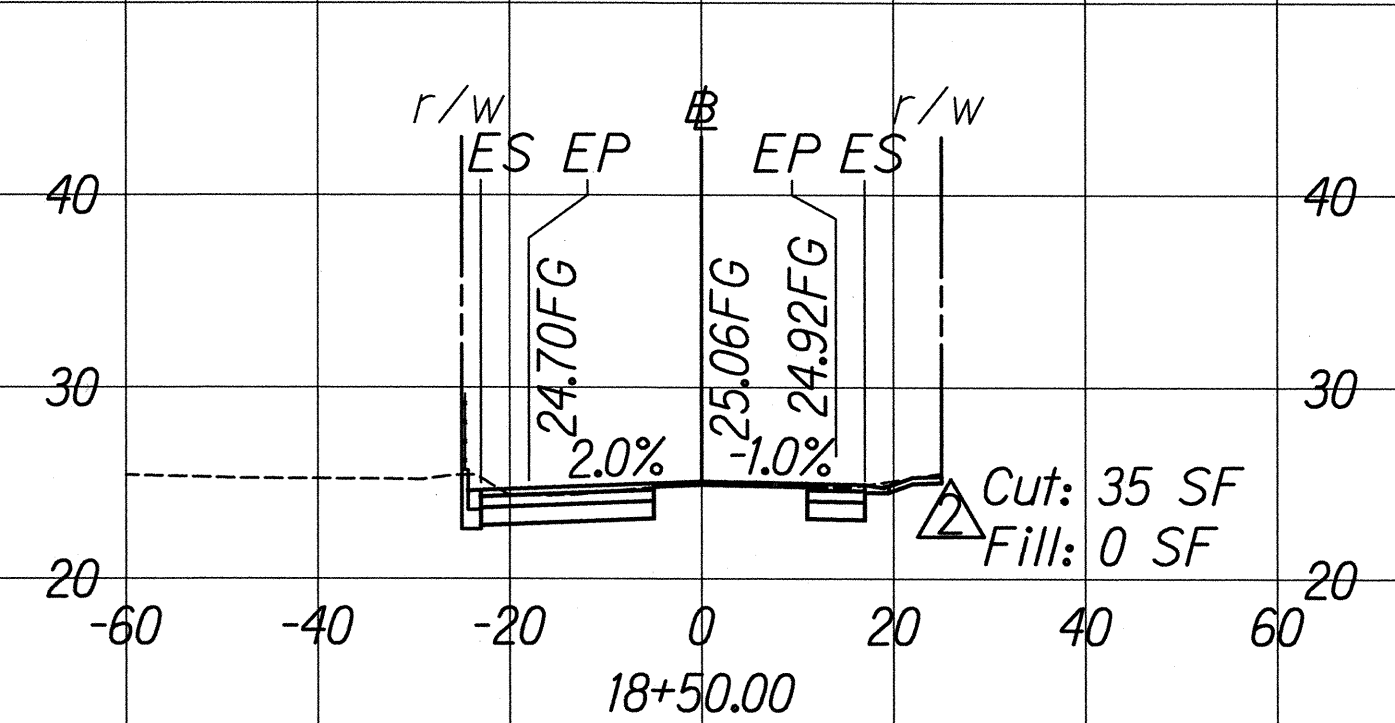
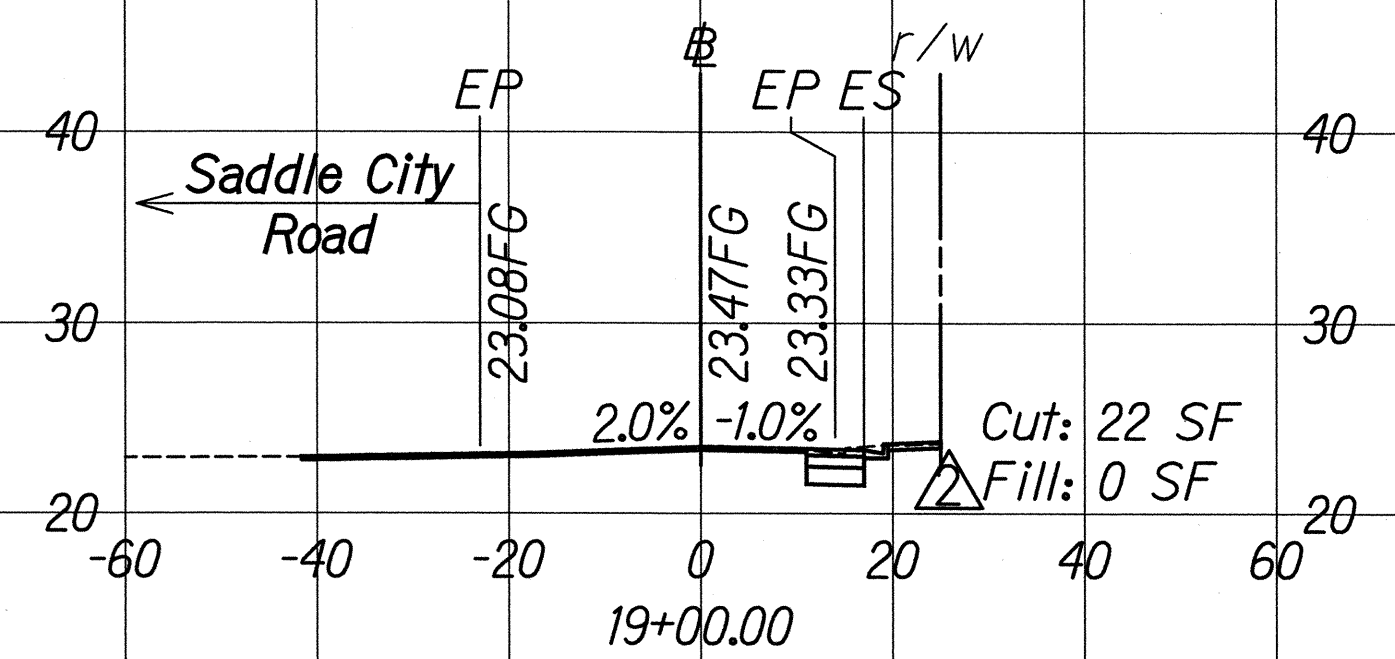
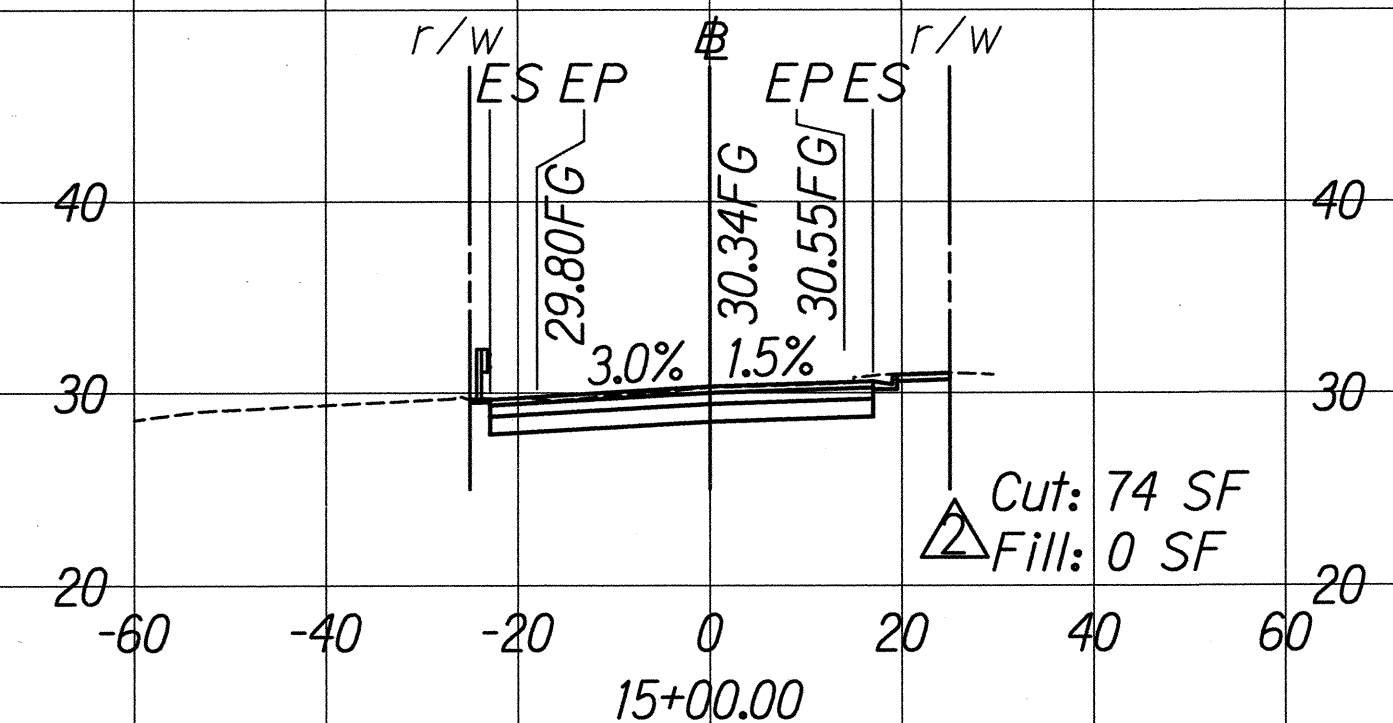
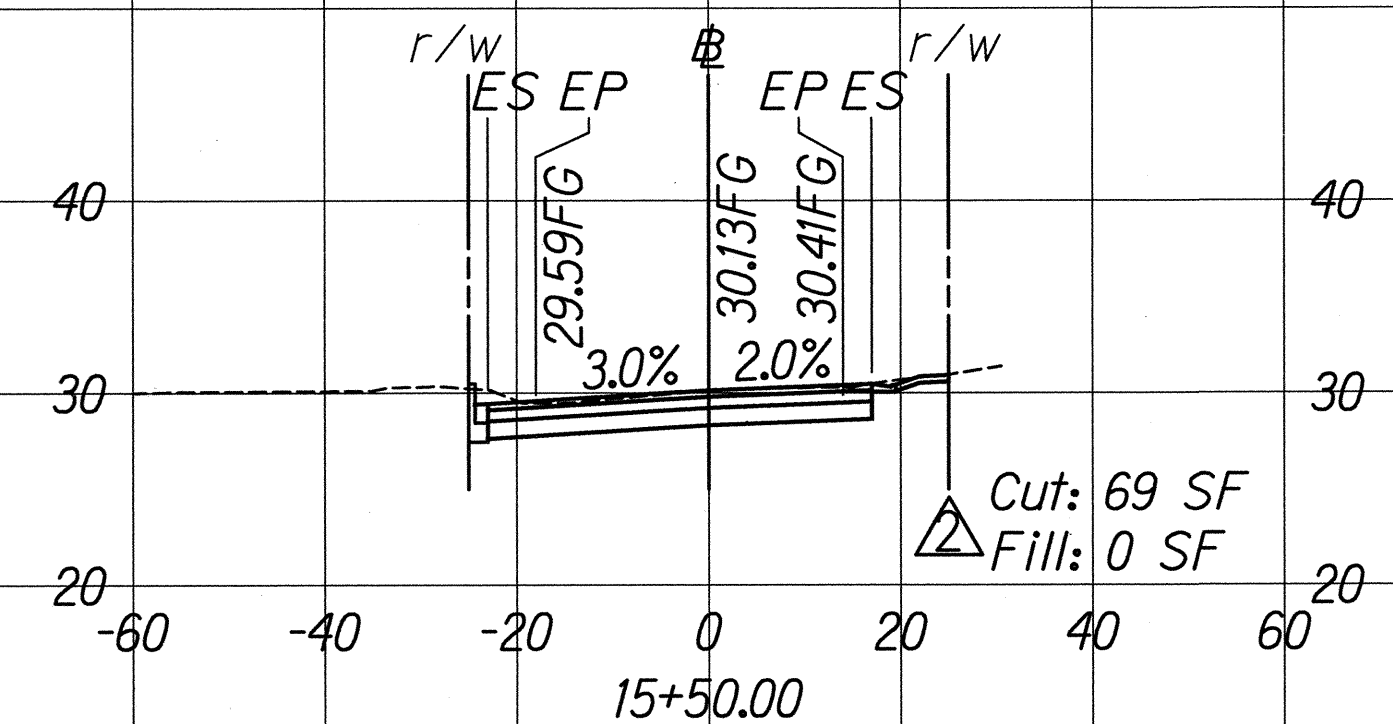
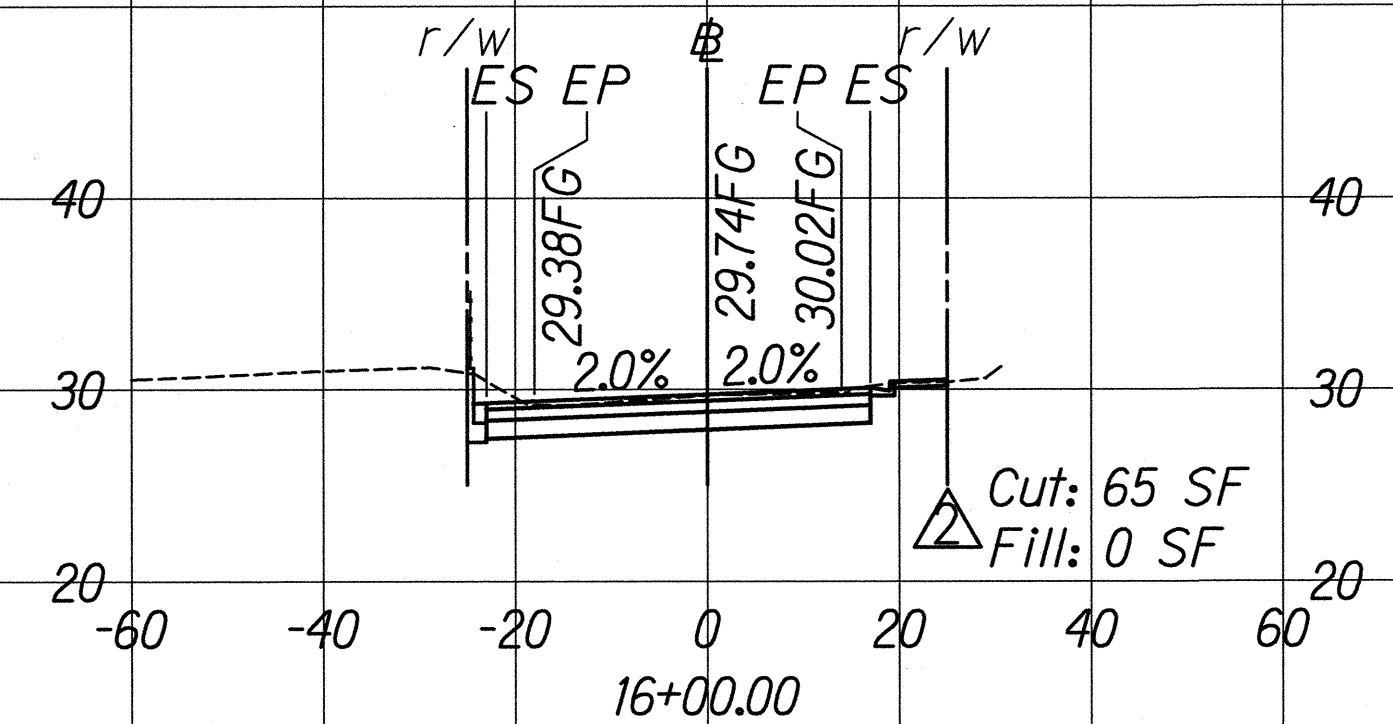
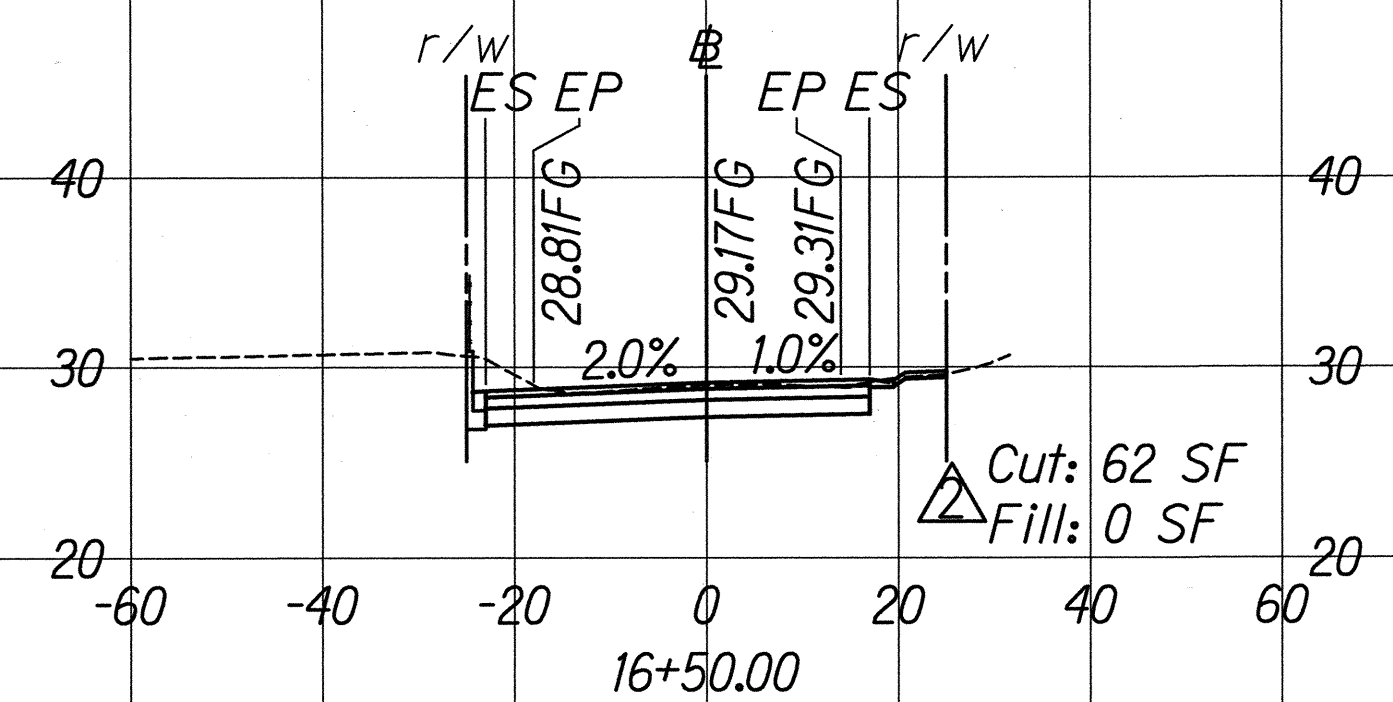


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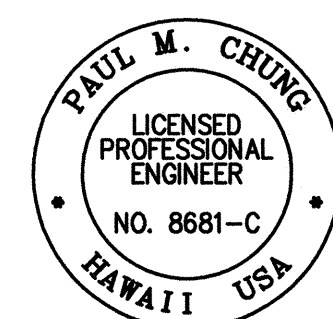
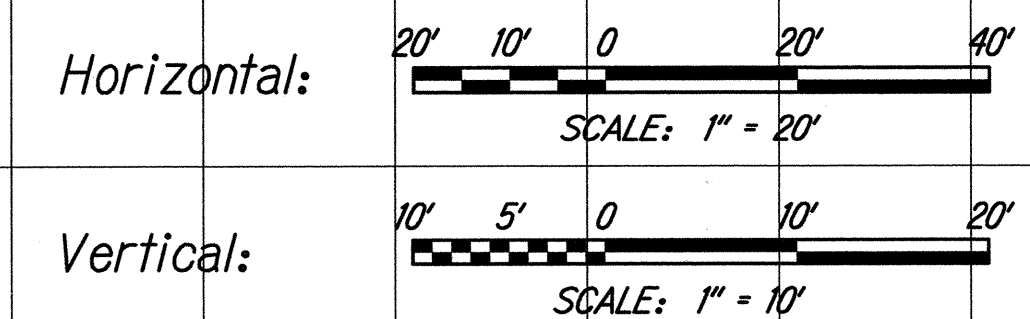
SIGNATURE: [Signature] 04/30/16 EXPIRATION DATE OF THE LICENSE

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:

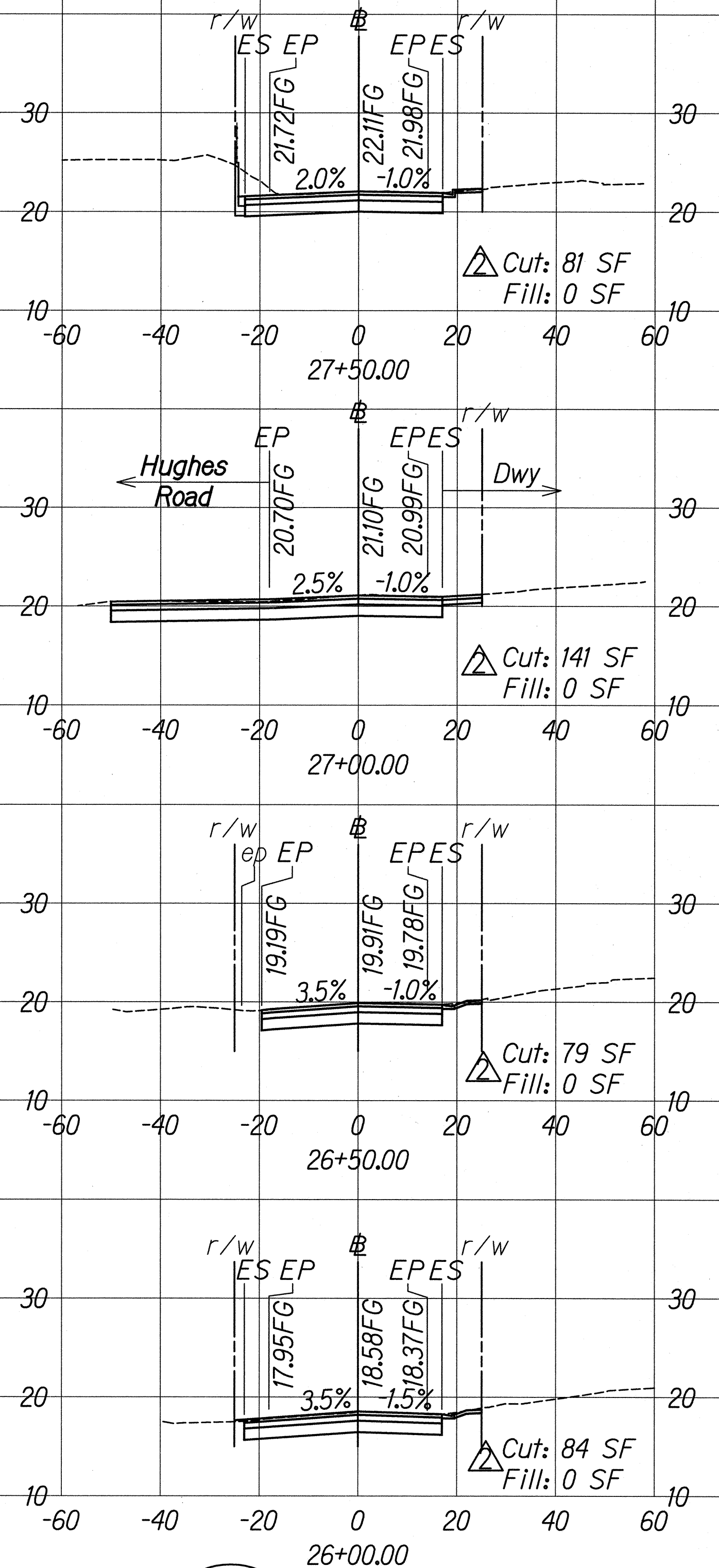
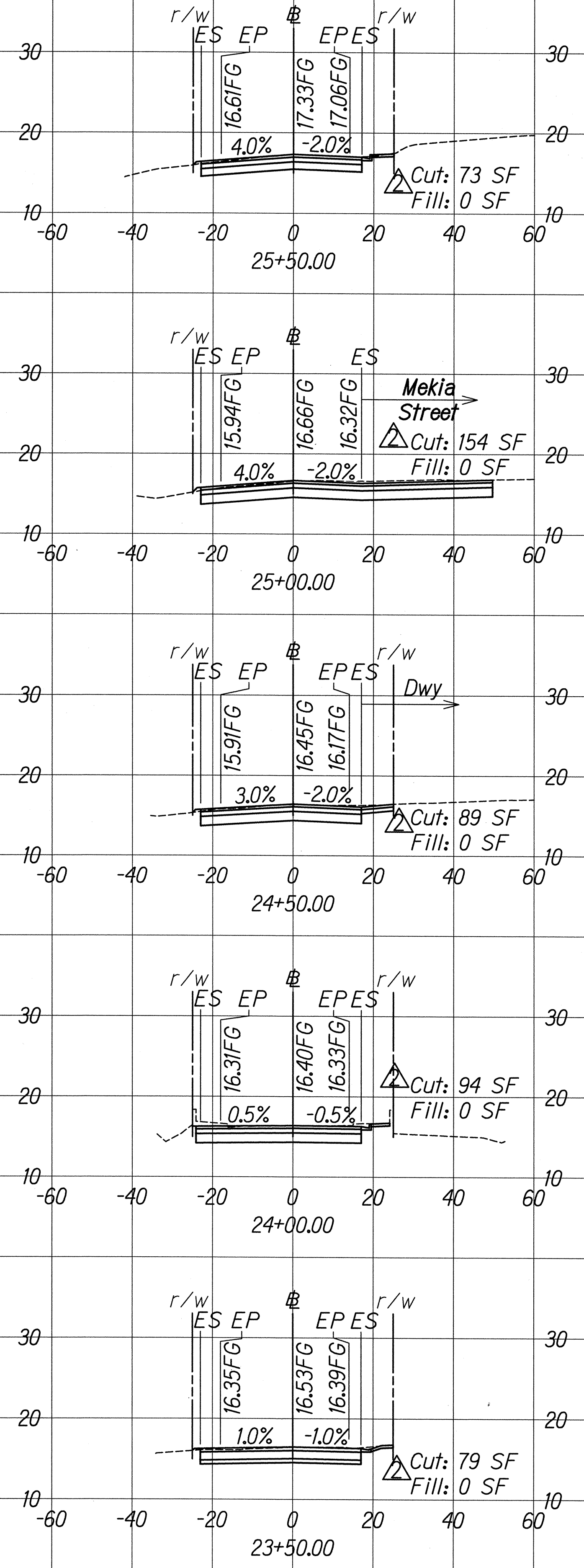
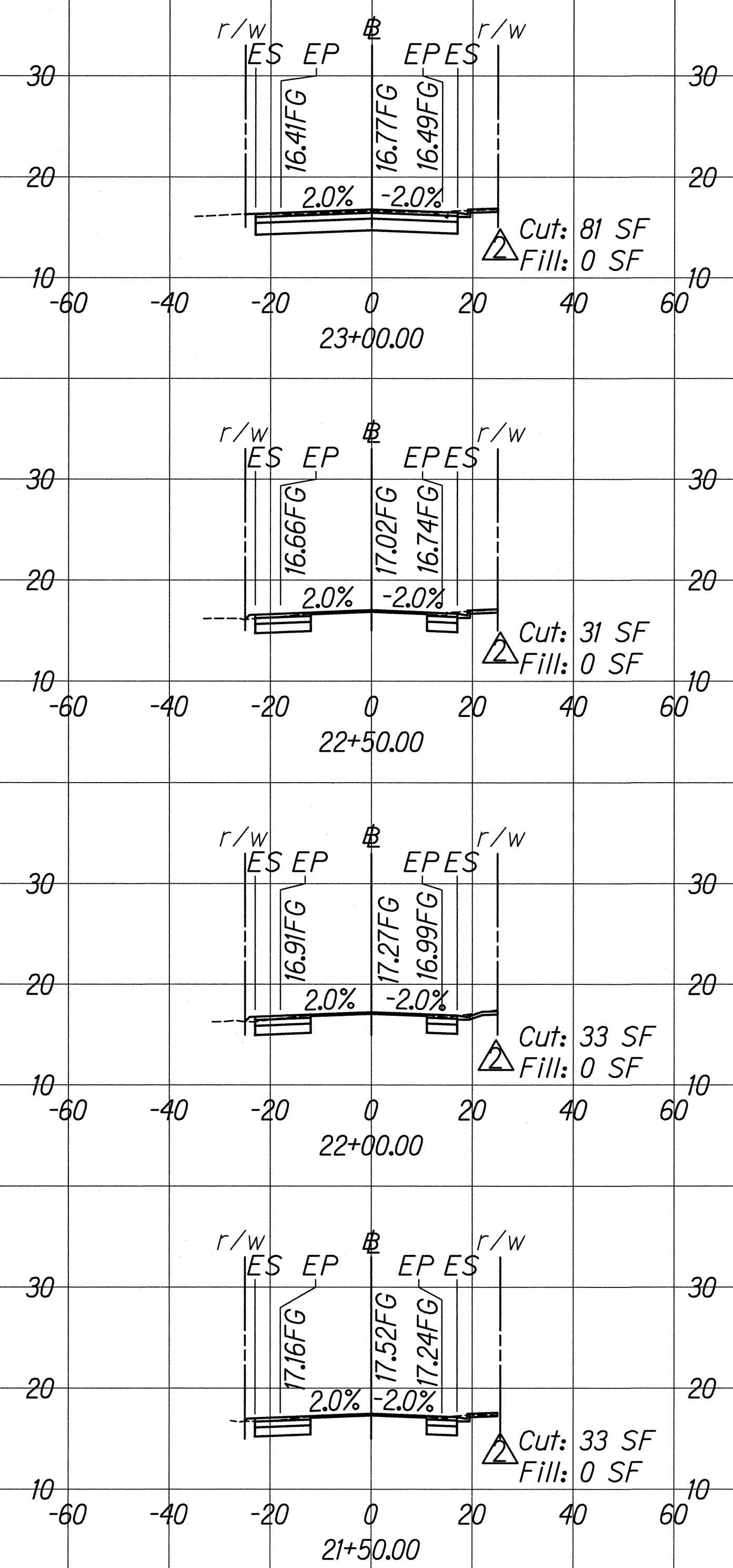


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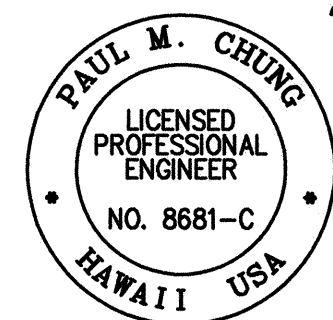
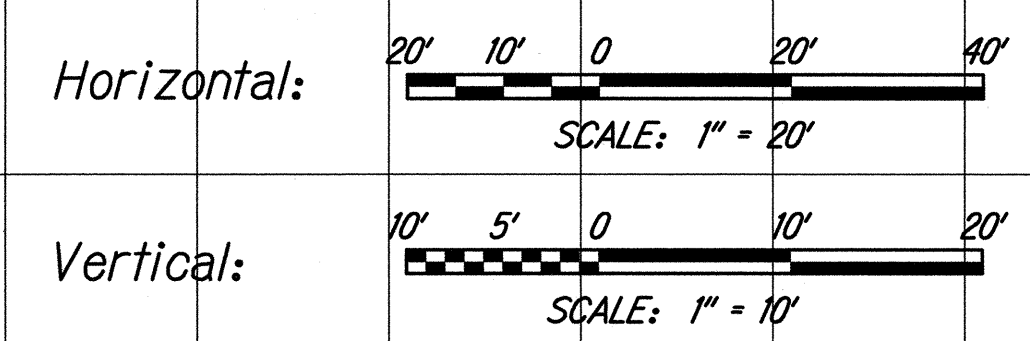
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EXPIRATION DATE OF THE LICENSE

10/23/15	Added cut/fill quantities
DATE	REVISION
SHEET No. 5	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. 116	117



GRAPHICAL SCALES:

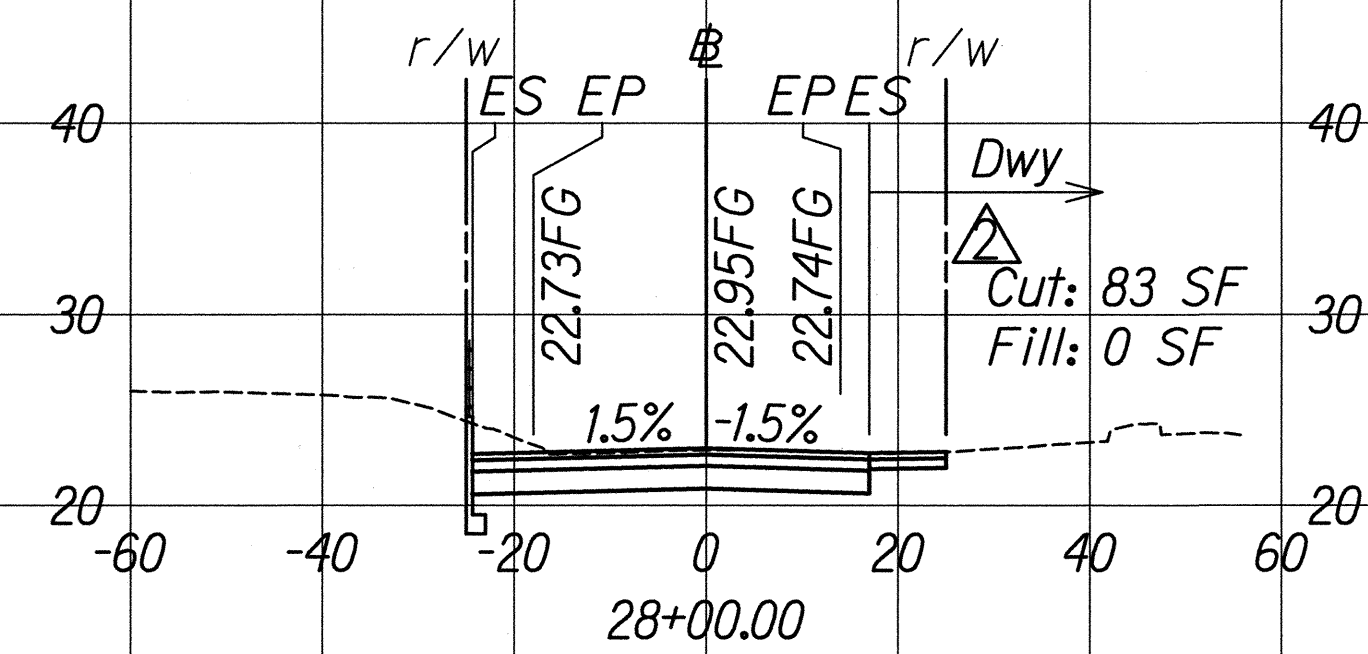
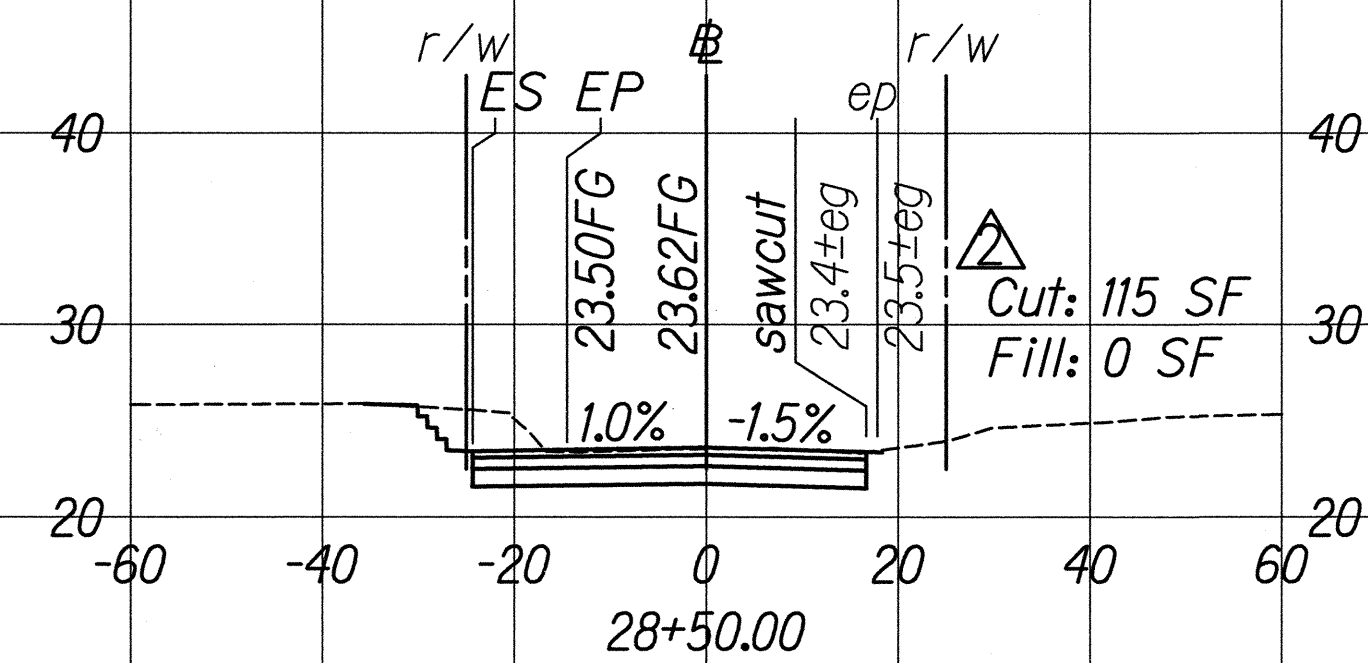
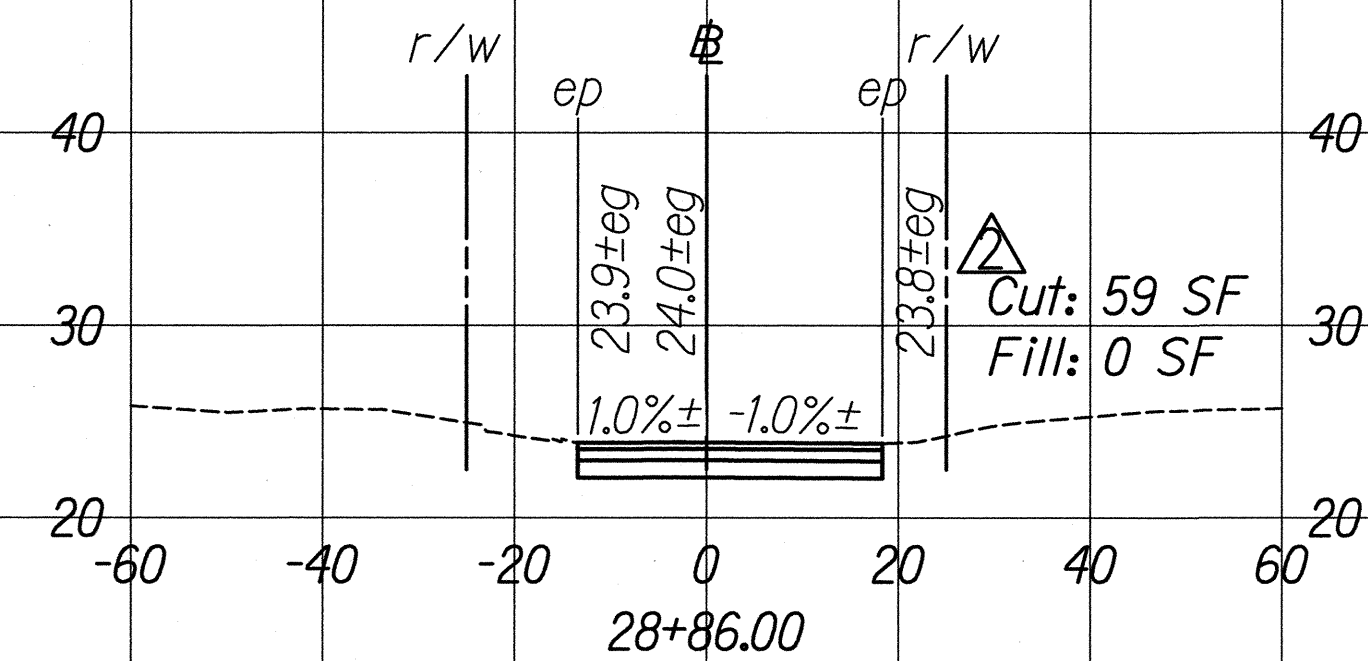


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SIGNATURE: [Signature] EXPIRATION DATE OF THE LICENSE: 04/30/16

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

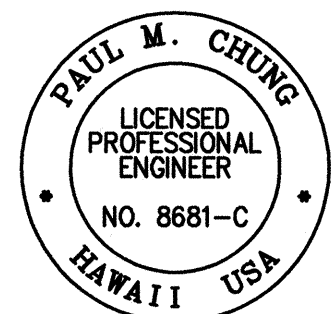
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-072-1(53)	2015	ADD. 117	117



GRAPHICAL SCALES:

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

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



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UNDER MY SUPERVISION

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