

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(38)	2002	C.O. ADD. 17	73

40 30 20 10 0 10 20 30 40 50 60 70 80

30 20 10 0 10 20 30 40 50 60 70 80

CUT = 4.82 SF
FILL = 0.00 SF

270+25

EXC = 10.38 CY
EMB = 0.01 CY

CUT = 15.77 SF
FILL = 0.00 SF

EXC = 18.05 CY
EMB = 0.00 CY

CUT = 5.20 SF
FILL = 0.00 SF

270+00

EXC = 4.64 CY
EMB = 0.00 CY

CUT = 17.60 SF
FILL = 0.02 SF

EXC = 15.45 CY
EMB = 0.01 CY

CUT = 0.00 SF
FILL = 0.00 SF

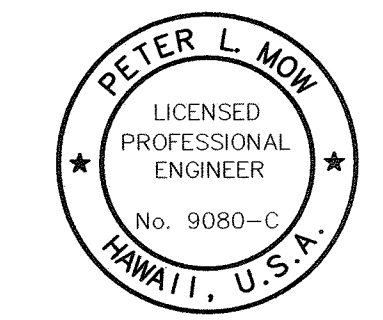
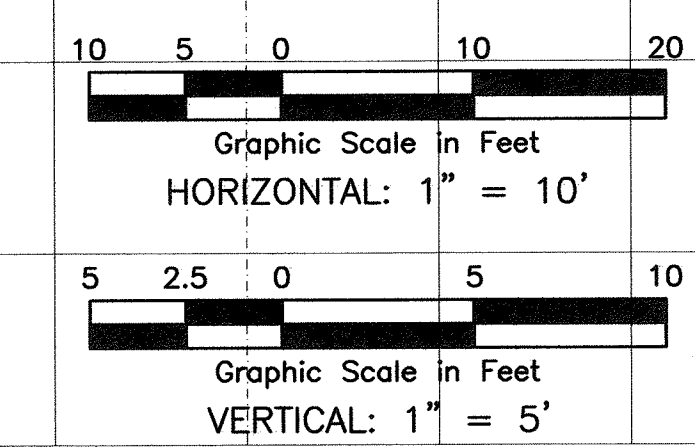
269+60.75
HAWAII BELT ROAD

60 70 80

60 70 80

LEGEND FOR
AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Roadway Text for as-built posting



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
PETER L. MOW
ENGINEERS SURVEYORS HAWAII, INC.

02/17/04	Revised Cut & Fill Slopes & Earthwork
02/05/03	Revised Cut & Fill Slopes & Earthwork
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CROSS SECTIONS
HAWAII BELT ROAD
Kupapaulua Bridge Widening
Hamakua District
Federal-Aid Project No. BR-019-2(38)
Scale: As Noted Date: Feb. 2004
SHEET No. C-15 OF 41 SHEETS

SURVEY PLOTTED BY: _____ DATE: _____
DRAWN BY: _____
CHECKED BY: _____
ORIGINAL PLAN NOTE BOOK NO. _____

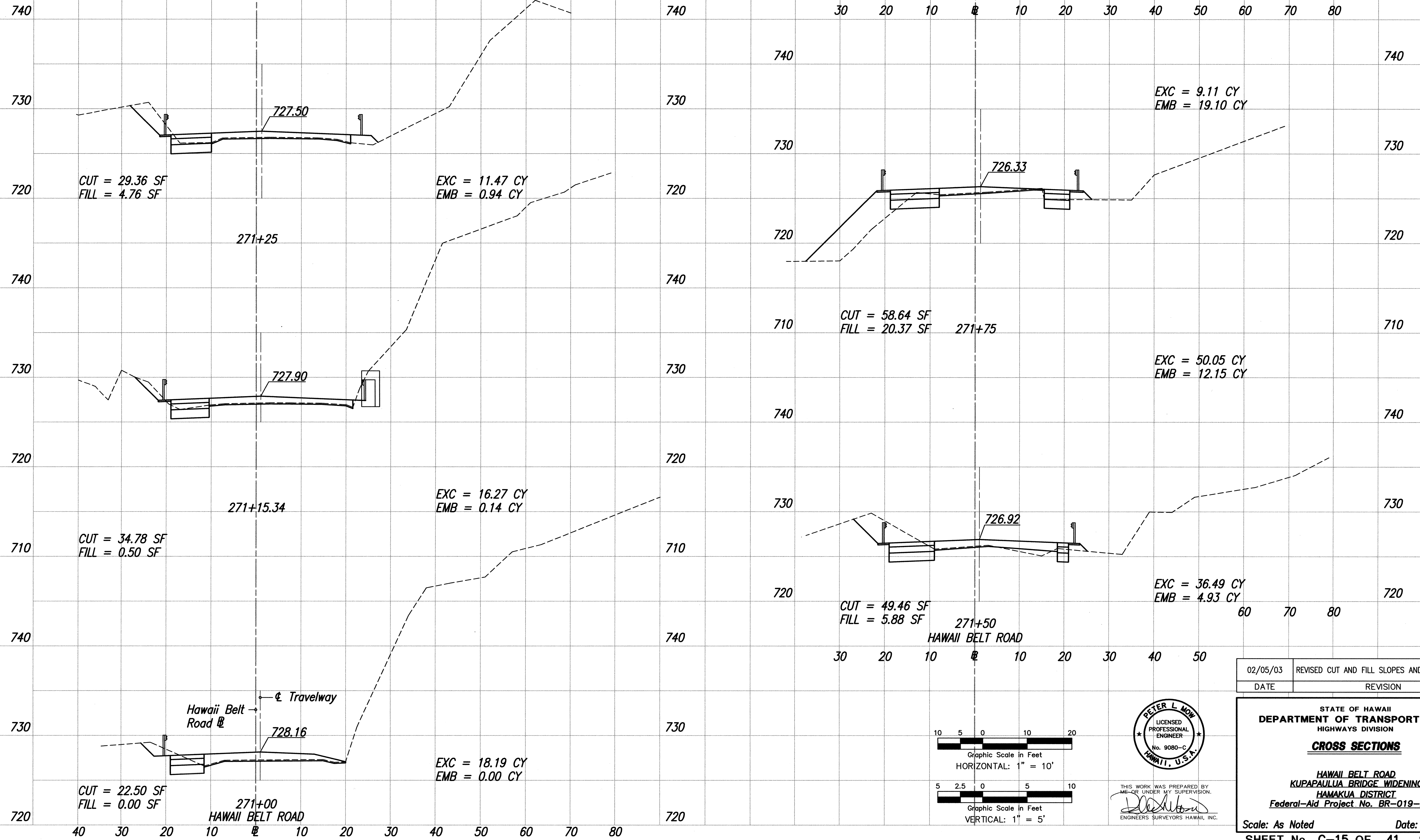
"AS-BUILT"

C.O. ADD. 17

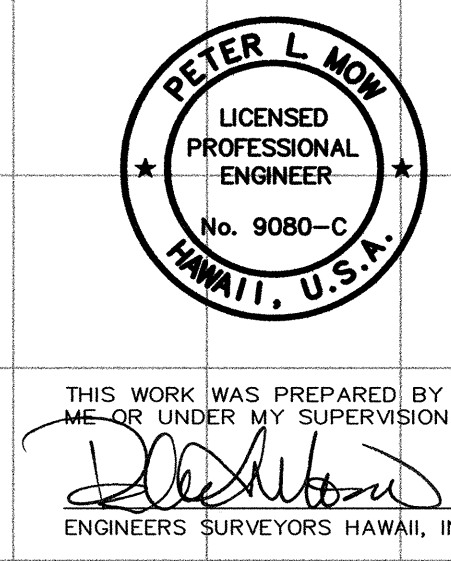
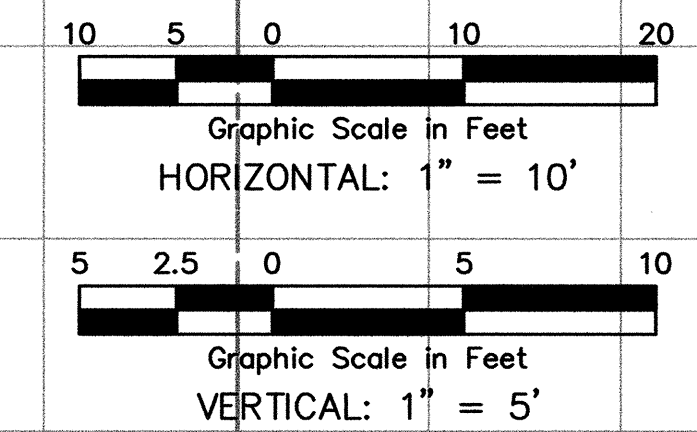
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(38)	2002	C.O. ADD. 17 S-1	73

30 20 10 0 10 20 30 40 50 60 70 80



ORIGINAL PLAN
DATE
DESIGNED BY
CHECKED BY
No.



02/05/03	REVISED CUT AND FILL SLOPES AND EARTHWORK.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CROSS SECTIONS
HAWAII BELT ROAD
KUPAPAUUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project No. BR-019-2(38)
Scale: As Noted Date: Feb. 2003
SHEET No. C-15 OF 41 SHEETS

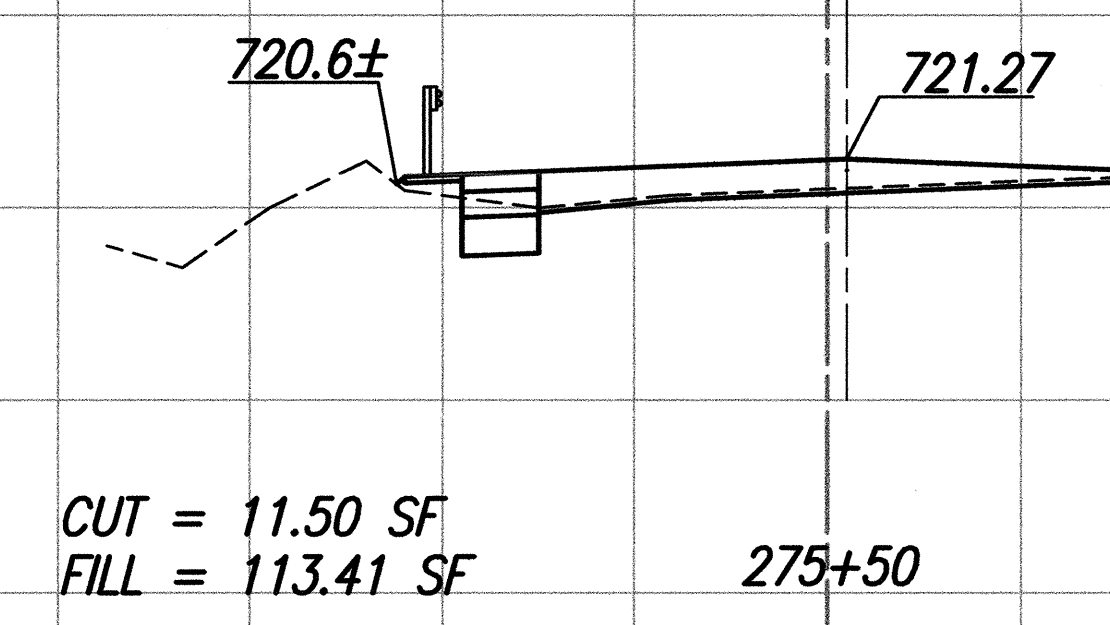
C.O. ADD. 17 S-1

40 30 20 10 0 10 20 30 40 50 60 70 80

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(38)	2002	C.O. ADD. 18	73

740 30 20 10 0 10 20 30 40 50 60 70 80 740

730
720
710
EXC = 18.84 CY
EMB = 53.23 CY



730

730

730

720

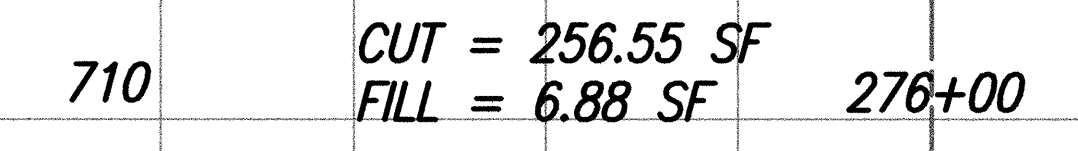
720

720

710

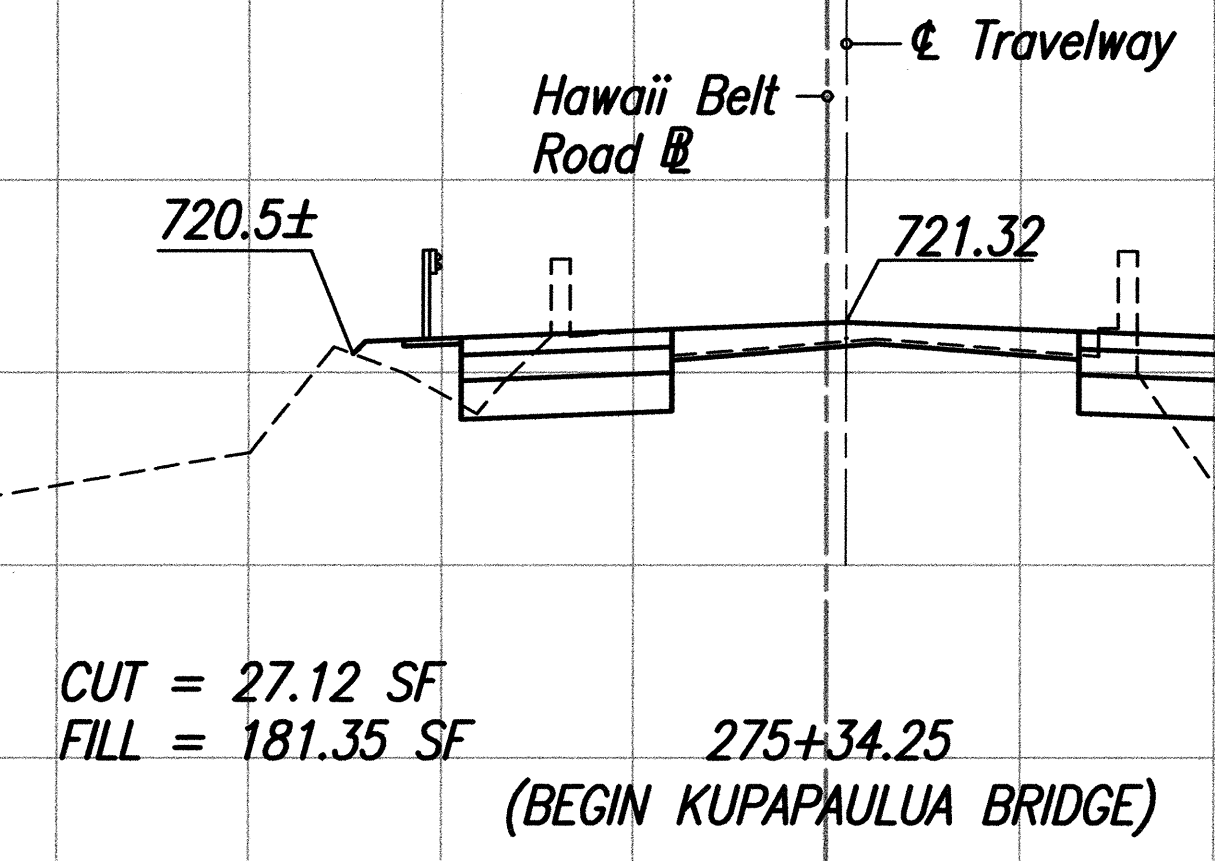
710

710



EXC = 132.29 CY
EMB = 3.91 CY

730
720
710
EXC = 11.26 CY
EMB = 85.97 CY



730

730

730

720

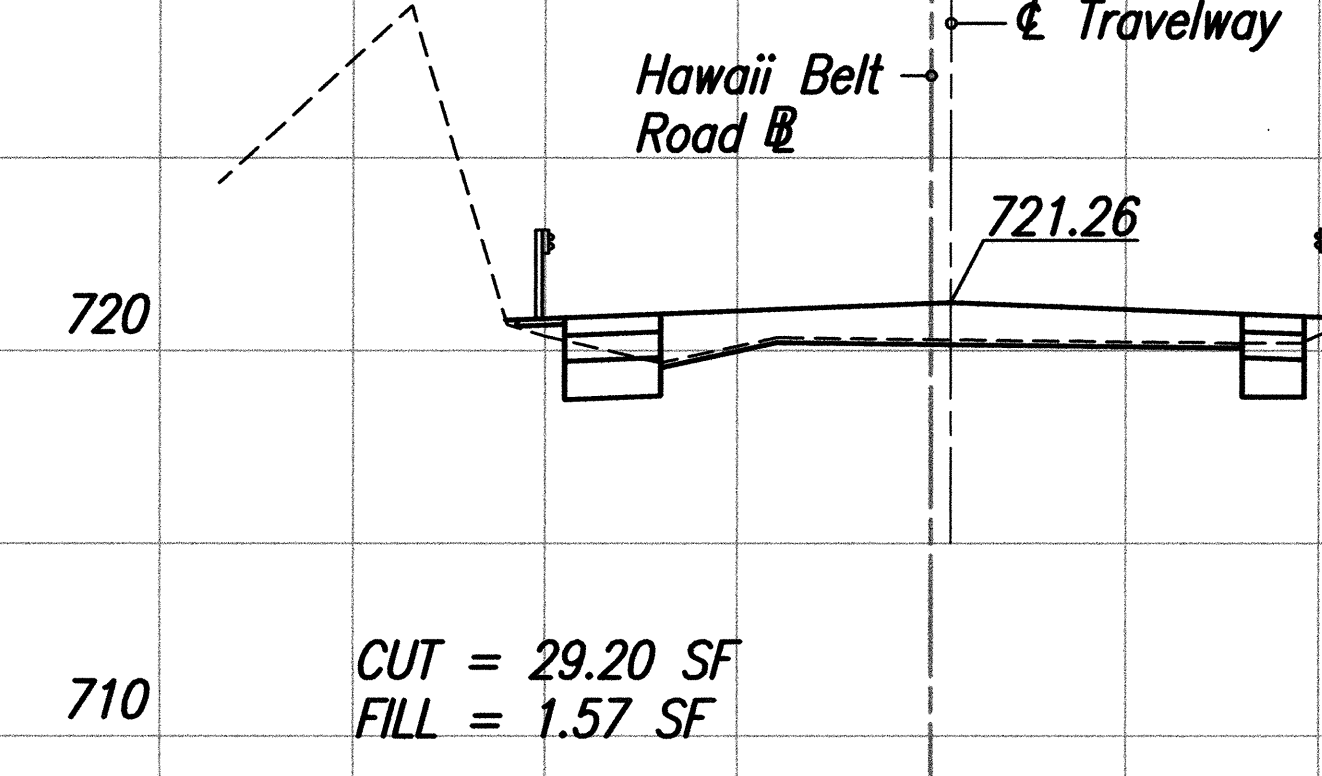
720

720

710

710

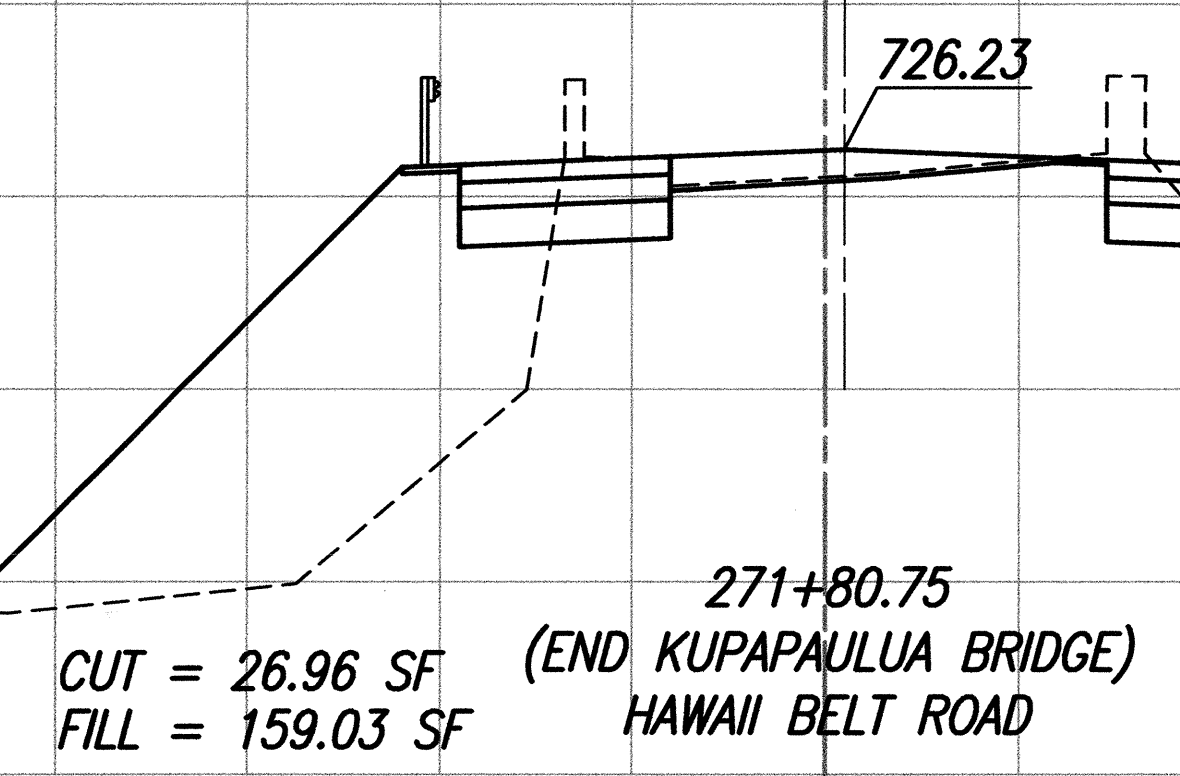
710



275+75
HAWAII BELT ROAD

60 70 80

730
720
710



730

730

730

720

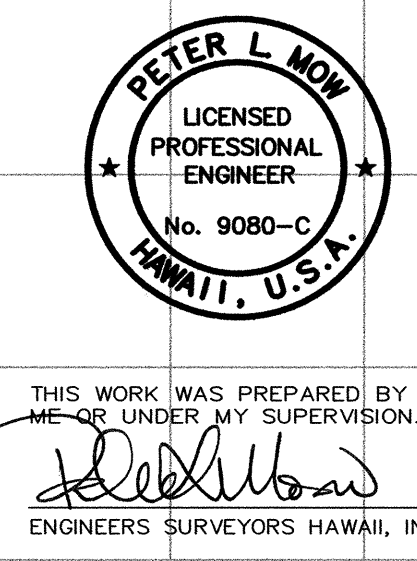
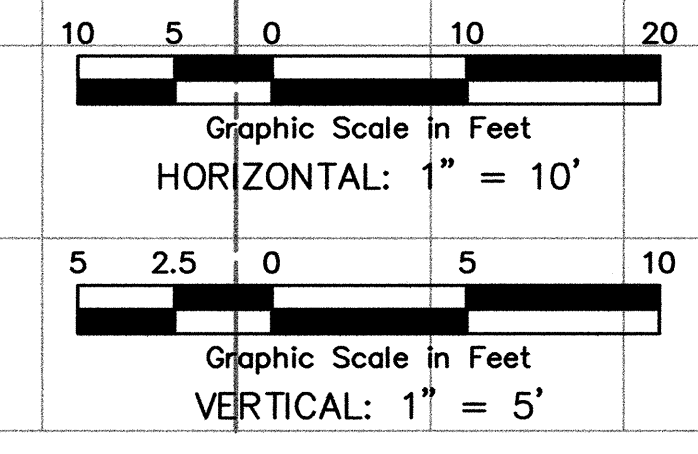
720

720

710

710

710



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ME OR UNDER MY SUPERVISION.
ENGINEERS SURVEYORS HAWAII, INC.

02/05/03	REVISED CUT AND FILL SLOPES AND EARTHWORK.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CROSS SECTIONS
HAWAII BELT ROAD
KUPAPAU LUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project No. BR-019-2(38)
Scale: As Noted Date: Feb. 2003
SHEET No. C-16 OF 41 SHEETS

SURVEY PLOTTED BY
DATE
DESIGNED BY
CHECKED BY
NOTE BOOK
QUANTITIES BY
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(38)	2002	C.O. ADD. 18 S-1	73

40 30 20 10 0 10 20 30 40 50 60 70 80

730 730 30 20 10 0 10 20 30 40 50 60 70 80 730

TOTAL APPROXIMATE EARTHWORK QUANTITIES
EXCAVATION = 466.51 CY
EMBANKMENT = 205.13 CY

CUT = 4.00 SF
FILL = 11.54 SF

EXC = 4.00 CY
EMB = 6.41 CY

CUT = 2.99 SF
FILL = 3.02 SF

EXC = 0.52 CY
EMB = 0.49 CY

CUT = 4.64 SF
FILL = 2.30 SF

EXC = 28.28 CY
EMB = 1.49 CY

CUT = 3.56 SF
FILL = 3.16 SF

EXC = 7.00 CY
EMB = 2.93 CY

CUT = 117.55 SF
FILL = 4.15 SF

EXC = 86.60 CY
EMB = 2.55 CY

CUT = 4.00 SF
FILL = 0.00 SF

EXC = 7.41 CY
EMB = 10.69 CY

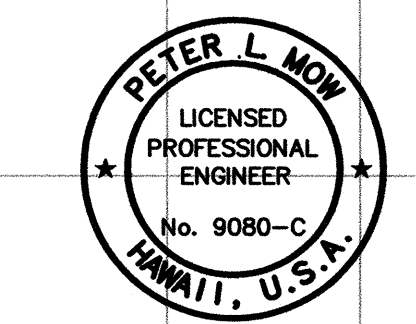
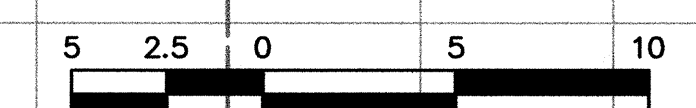
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

Hawaii Belt Road
Travelway

STATE R/W

STATE R/W

FINISH GRADE (TYPICAL)



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DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CROSS SECTIONS
HAWAII BELT ROAD
KUPAPAUHUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project No. BR-019-2(38)

Scale: As Noted Date: Feb. 2003

SHEET No. C-15 OF 41 SHEETS

C.O. ADD. 18 S-1