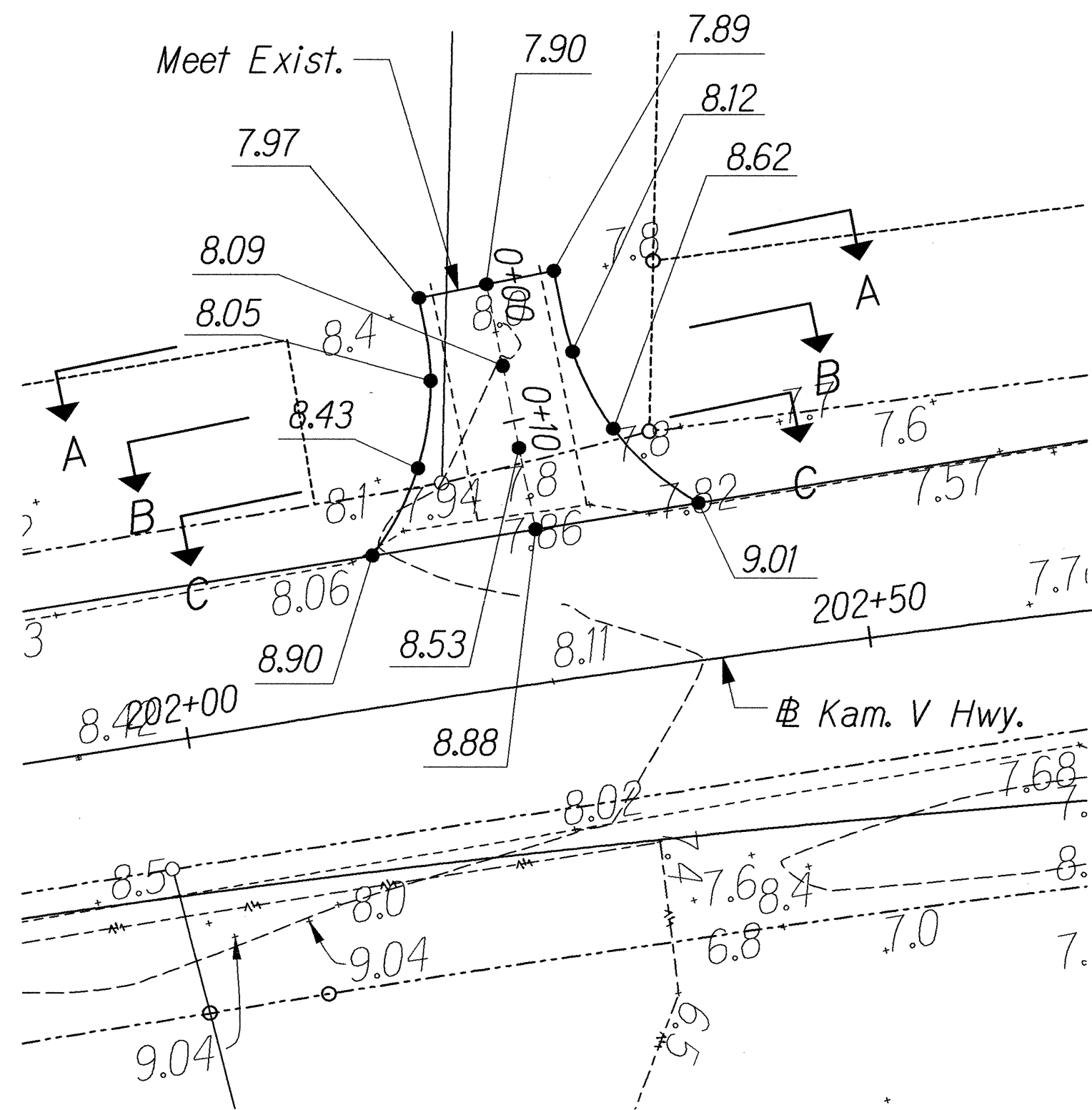
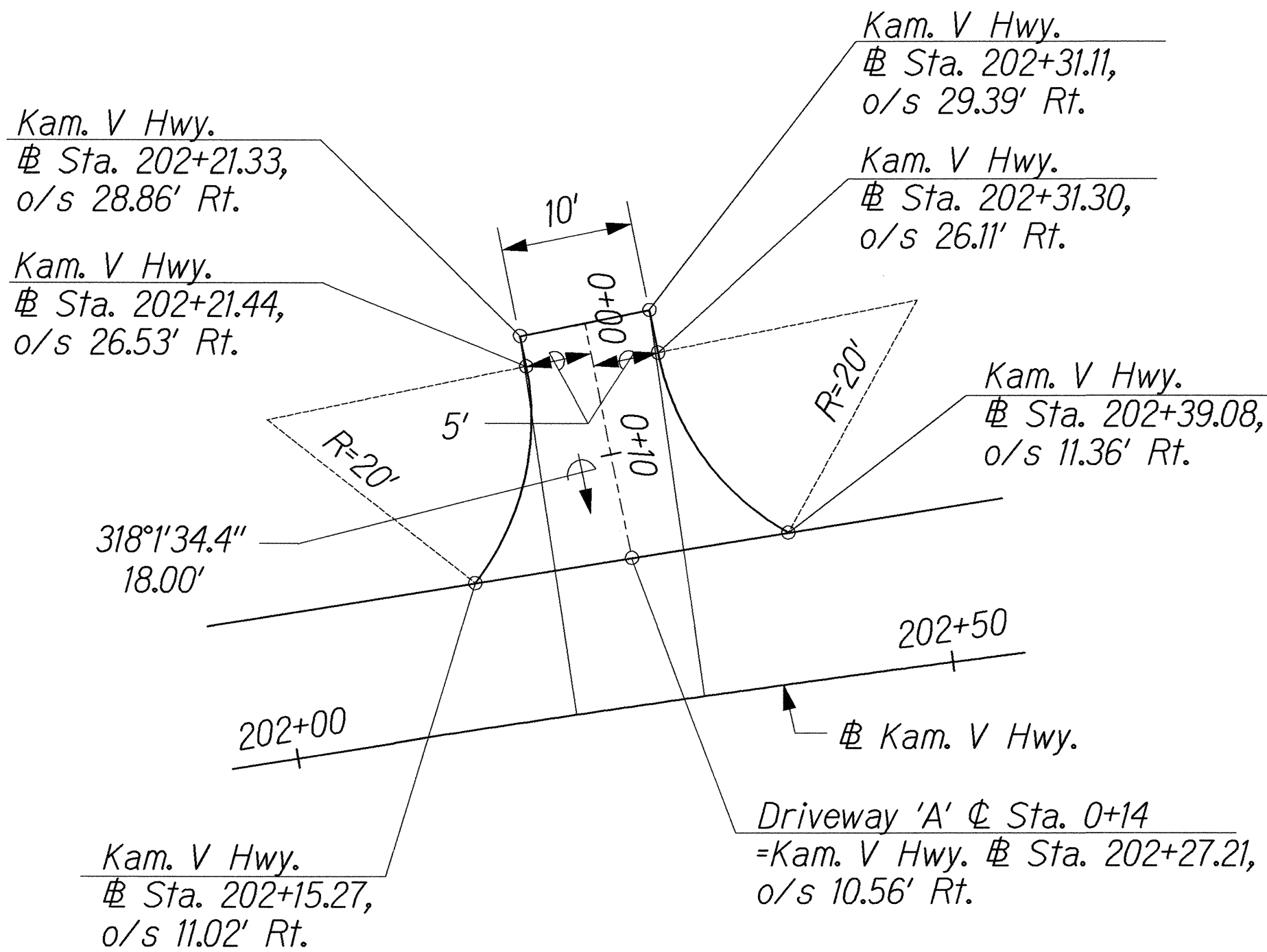


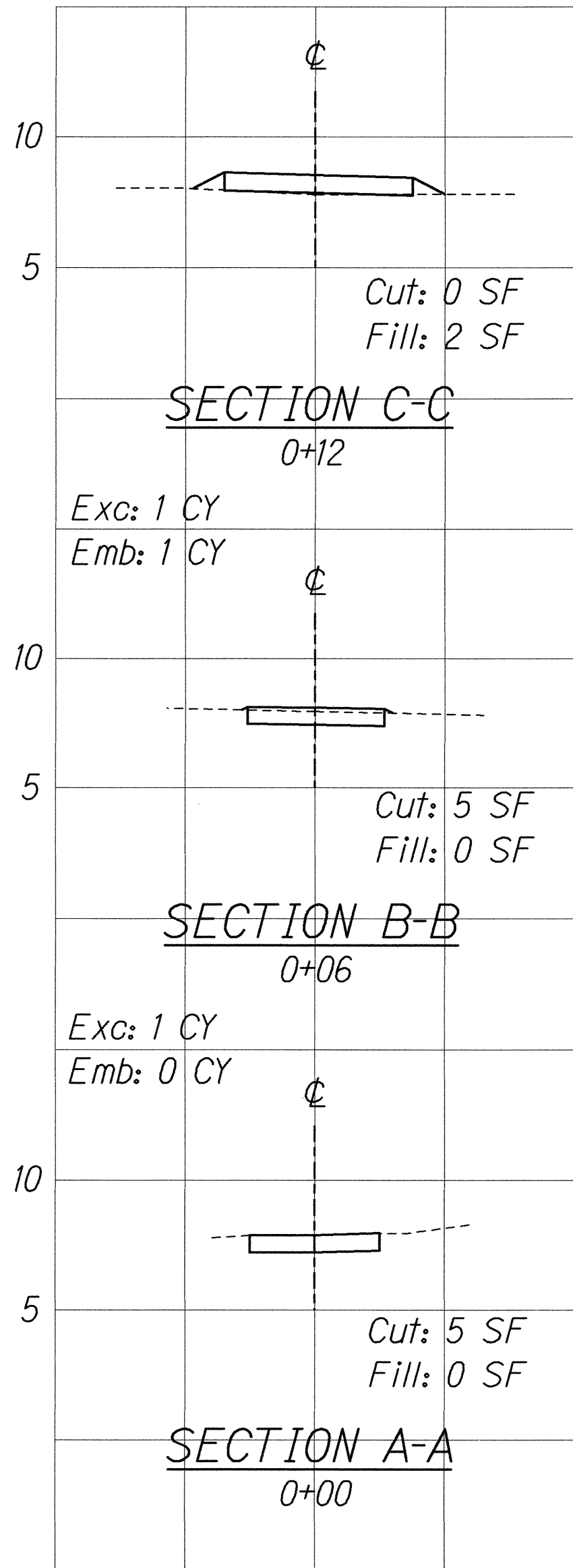
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(4)	2003	20	76



GRADING PLAN - DRIVEWAY 'A'
Scale: 1"=10'

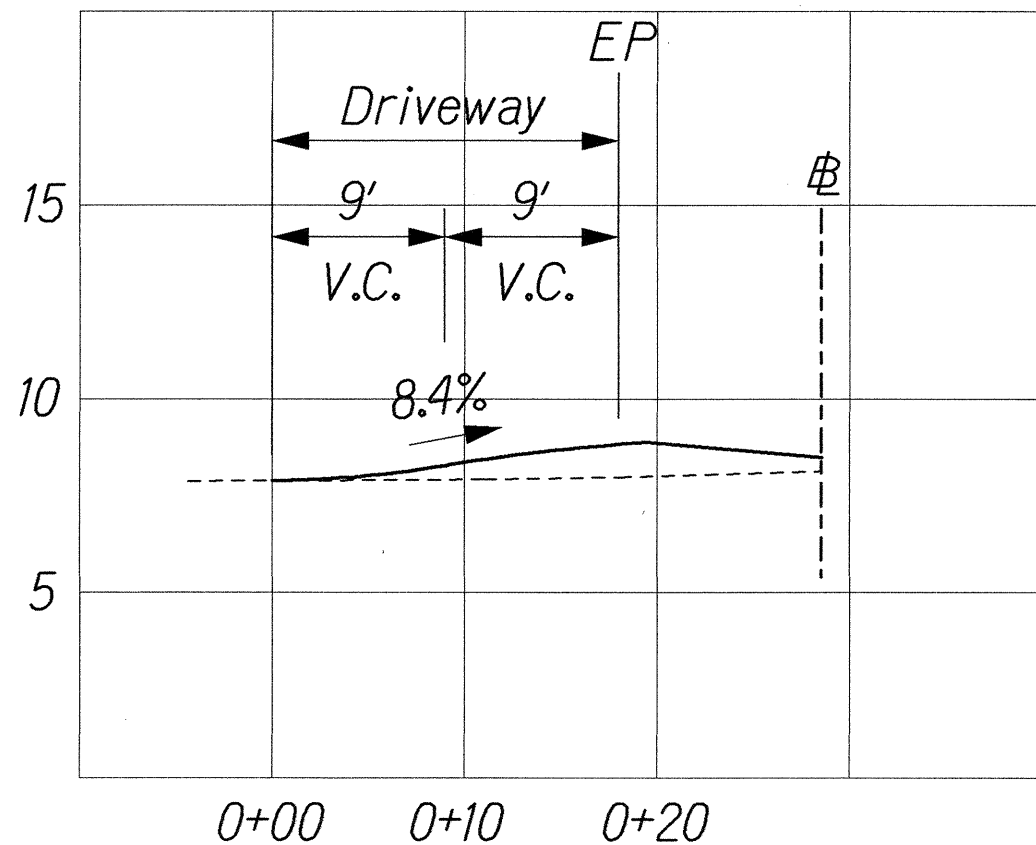


DRIVEWAY 'A' - LAYOUT PLAN
Scale: 1"=10'

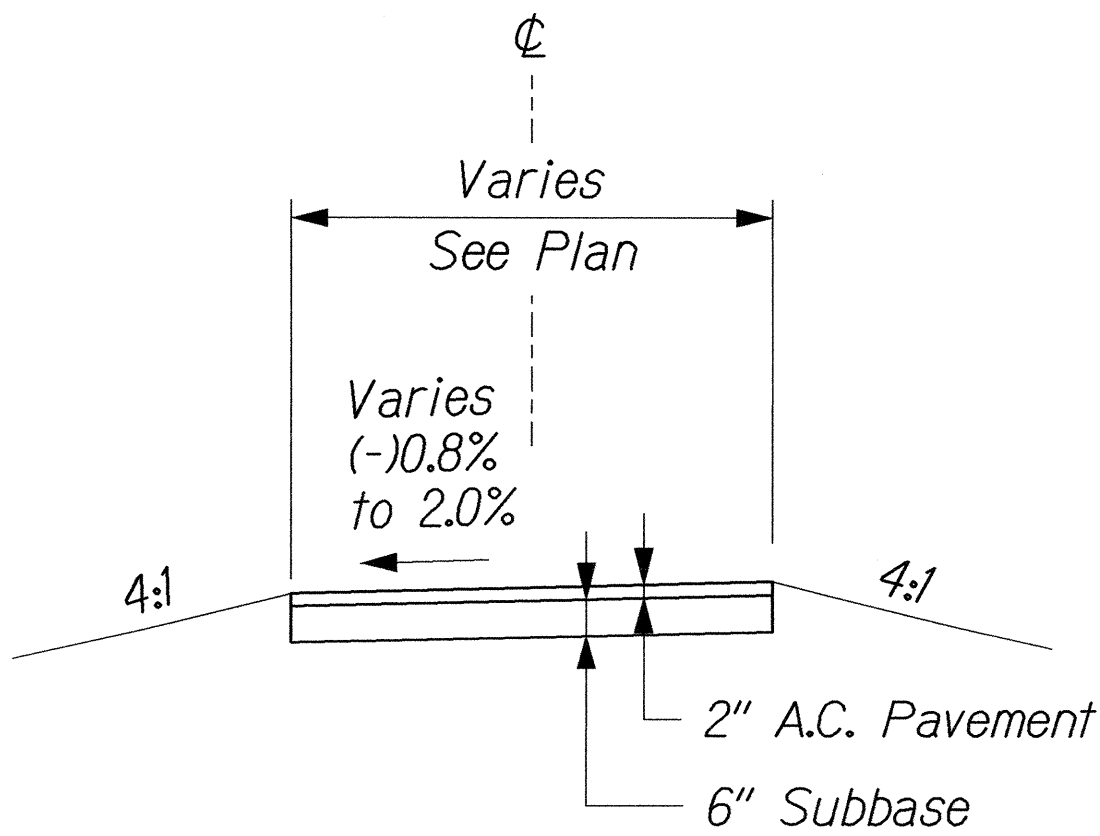


**CROSS SECTIONS
DRIVEWAY 'A'**
Scale: Horiz. 1"=10'
Vert. 1"=5'

EARTHWORK SUMMARY
Total Cut = 10 SF
Total Fill = 2 SF
Total Exc. = 2 CY
Total Emb. = 1 CY

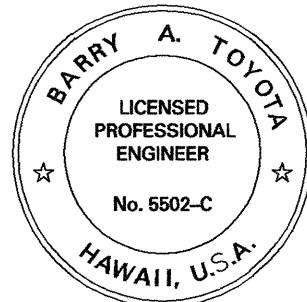


PROFILE - DRIVEWAY 'A'
Scale: Horiz. 1"=10'
Vert. 1"=5'



TYPICAL SECTION - DRIVEWAY 'A'
Scale: 1/4"=1'-0'

NOTE:
All stationings are based on new Kamehameha V Highway baseline.

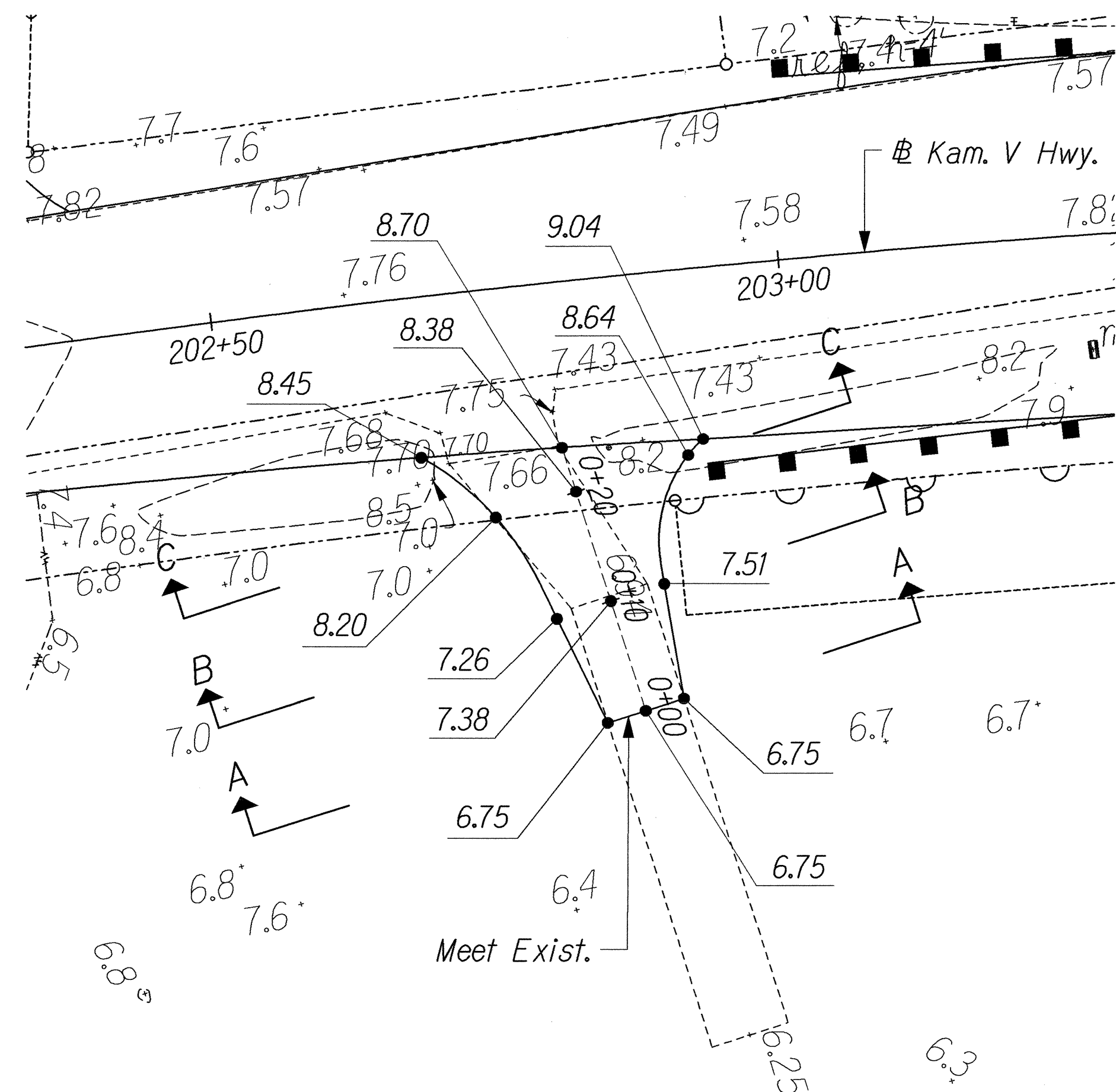


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April 30, 2004
Expiration Date of the License

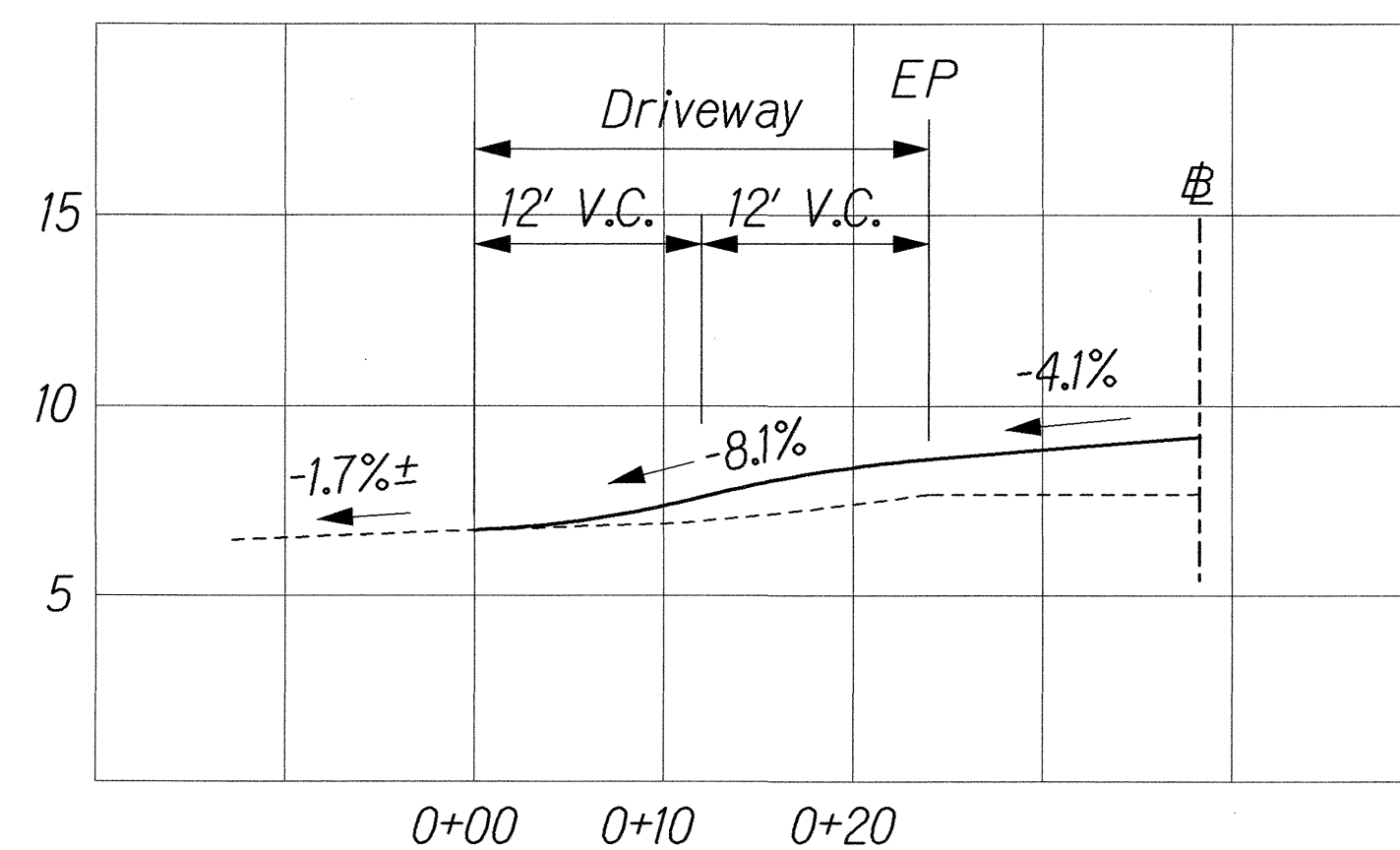
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRIVEWAY DETAILS	
KAMEHAMEHA V HIGHWAY EMERGENCY REPLACEMENT OF KAWAIKAPU BRIDGE FEDERAL AID PROJECT NO. ER-12(4)	
Scale: As Shown	Date: November 25, 2002
SHEET No. C17 OF 46 SHEETS	

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

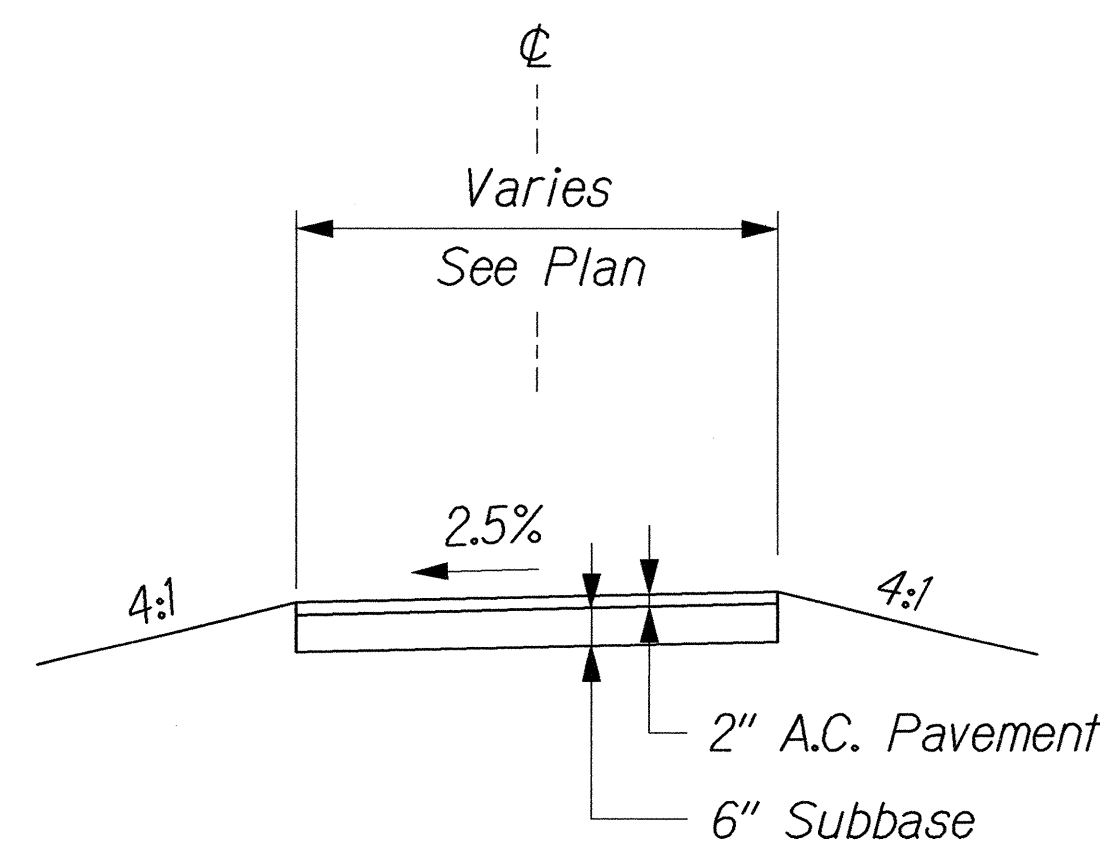
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(4)	2003	21	76



GRADING PLAN - DRIVEWAY 'B'
Scale: 1"=10'



PROFILE - DRIVEWAY 'B'
Scale: Horiz. 1"=10'
Vert. 1"=5'



TYPICAL SECTION - DRIVEWAY 'B'
Scale: 1/4"=1'-0"

Driveway 'B' @ Sta. 0+24
=Kam. V Hwy. @ Sta. 202+79.37,
o/s 14.28' Rt.

Kam. V Hwy.
@ Sta. 202+66.91
o/s 13.77' Rt.

Kam. V Hwy.
@ Sta. 202+91.88,
o/s 14.80' Rt.

Kam. V Hwy.

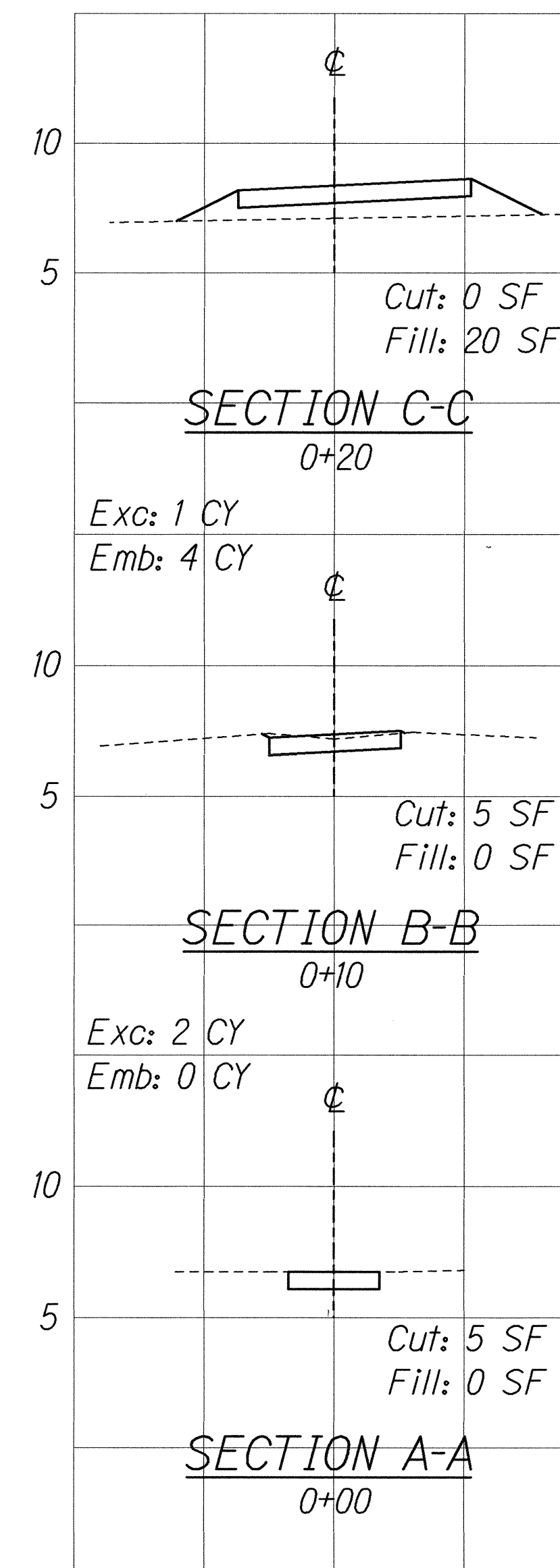
Kam. V Hwy.
@ Sta. 202+76.08,
o/s 25.69' Rt.

DRIVEWAY 'B' - LAYOUT PLAN
Scale: 1"=10'

EARTHWORK SUMMARY

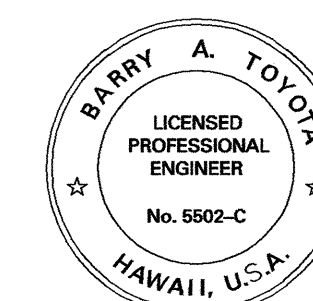
Total Cut = 10 SF
Total Fill = 20 SF

Total Exc. = 3 CY
Total Emb. = 4 CY



CROSS SECTIONS
DRIVEWAY 'B'
Scale: Horiz. 1"=10'
Vert. 1"=5'

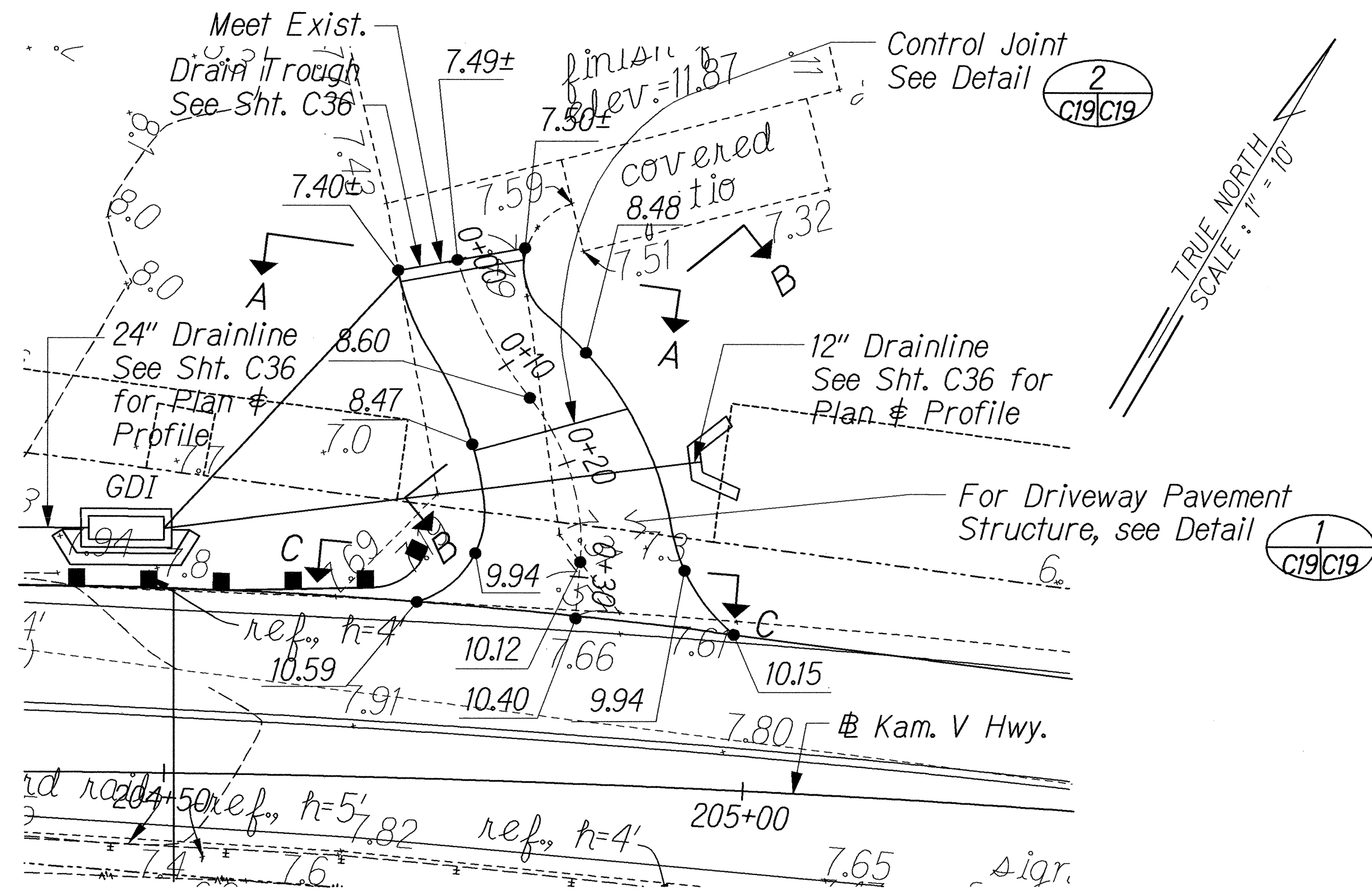
DATE	DATE
DESIGNED BY	DESIGNED BY
CHECKED BY	CHECKED BY
NOTED BY	NOTED BY
ORIGINAL PLAN	ORIGINAL PLAN



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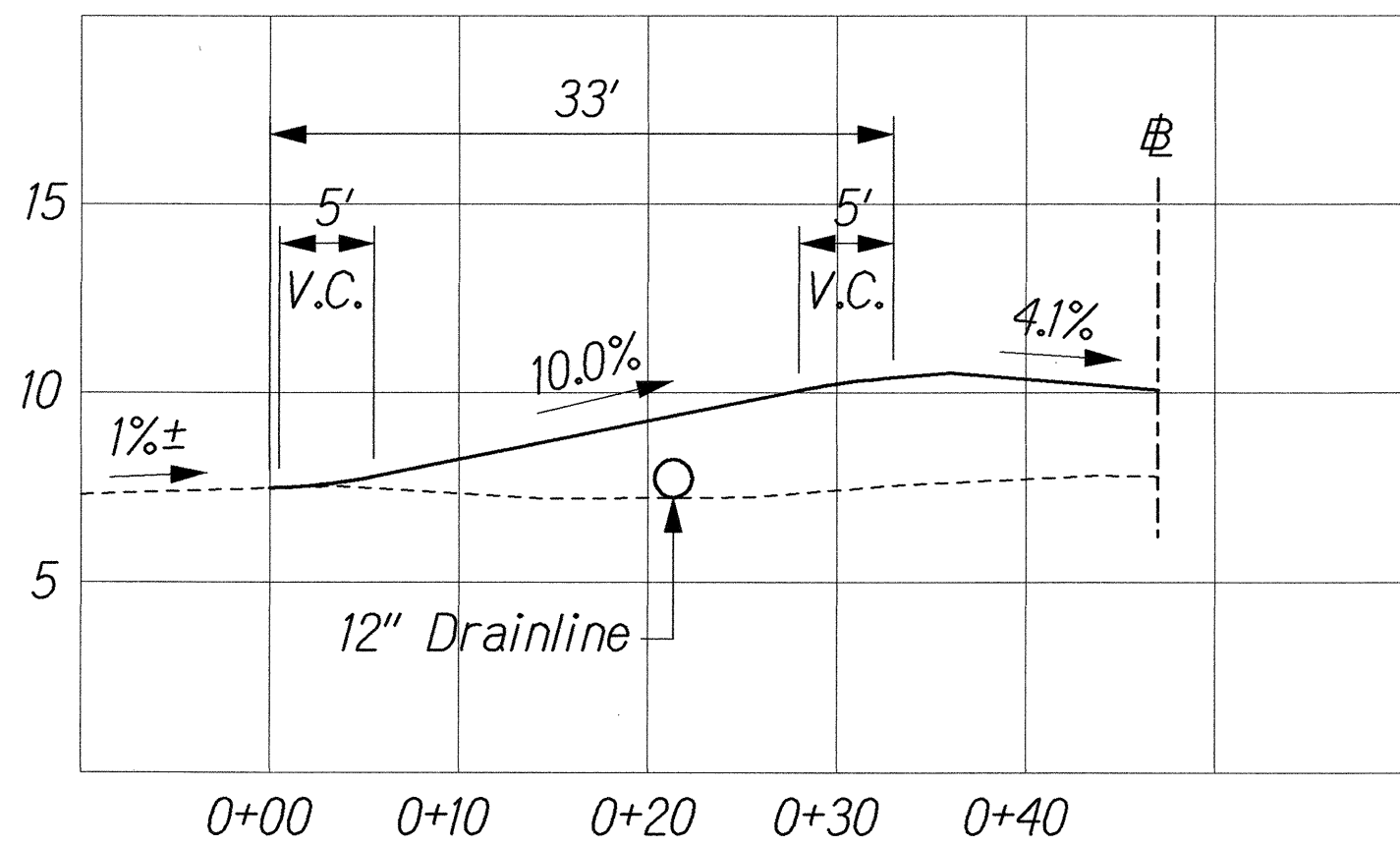
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DRIVEWAY DETAILS KAMEHAMEHA V HIGHWAY EMERGENCY REPLACEMENT OF KAWAIKAPU BRIDGE FEDERAL AID PROJECT NO. ER-12(4) Scale: As Shown Date: November 25, 2002	
SHEET No. C18 OF 46 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(4)	2003	22	76

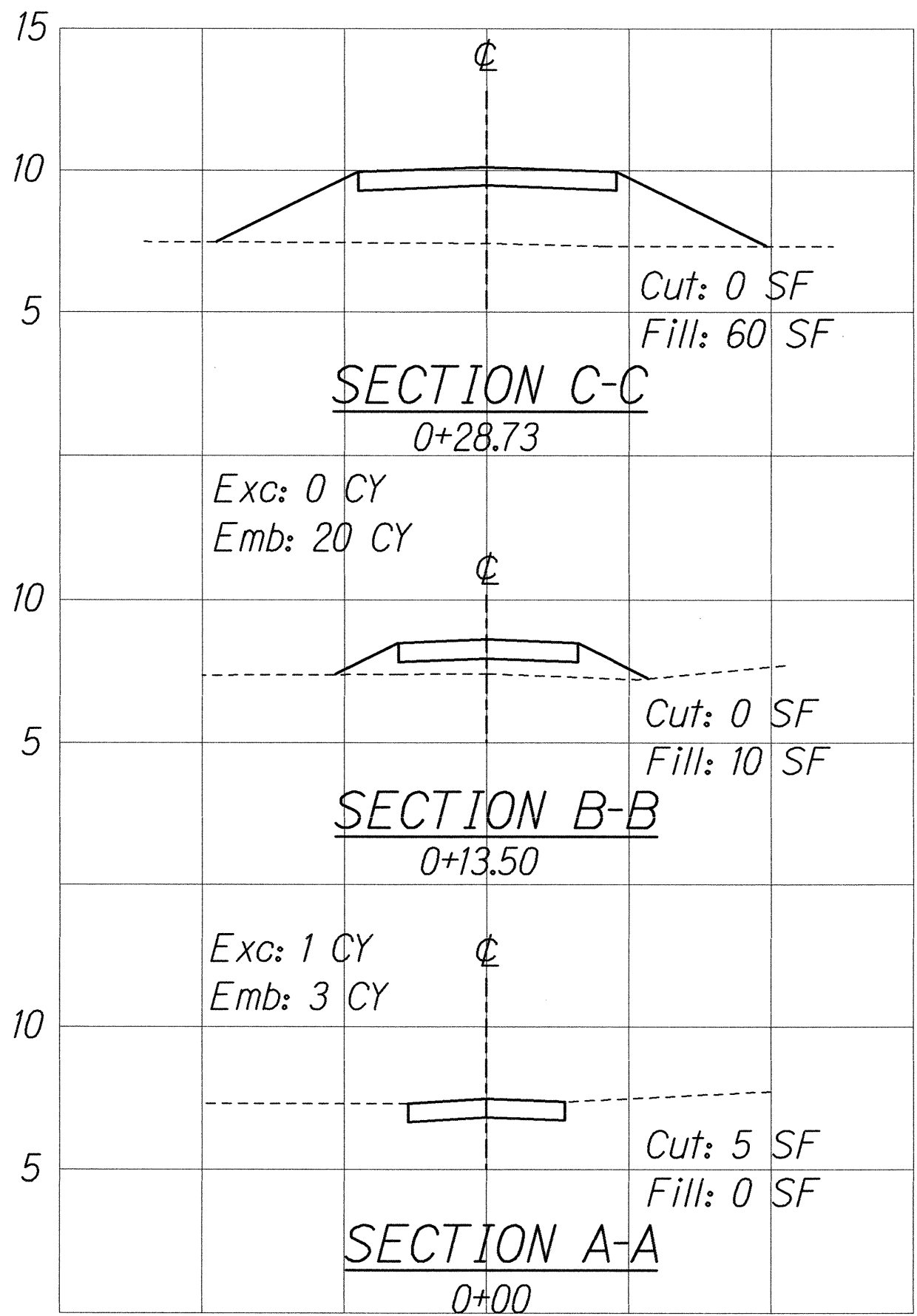


GRADING PLAN - DRIVEWAY 'C'
Scale: 1"=10'

EARTHWORK SUMMARY	
Total Cut = 5 SF	Total Fill = 70 SF
Total Exc. = 1 CY	Total Emb. = 23 CY



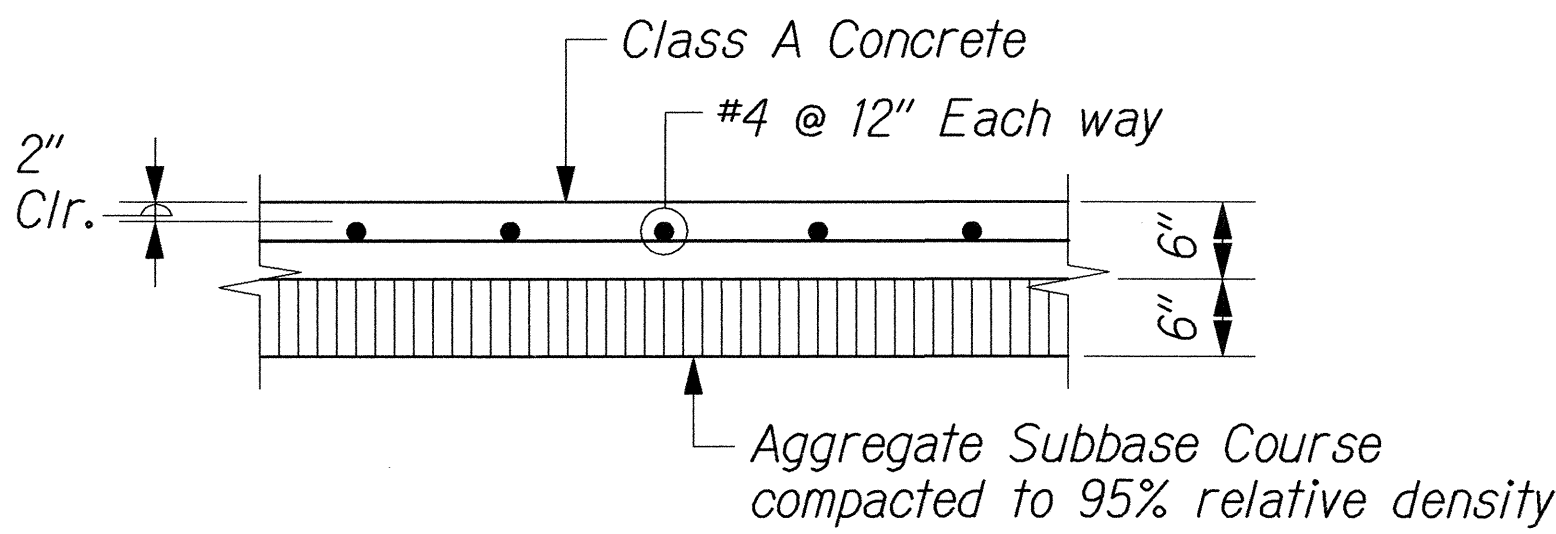
PROFILE - DRIVEWAY 'C'
Scale: Horiz. 1"=10'
Vert. 1"=5'



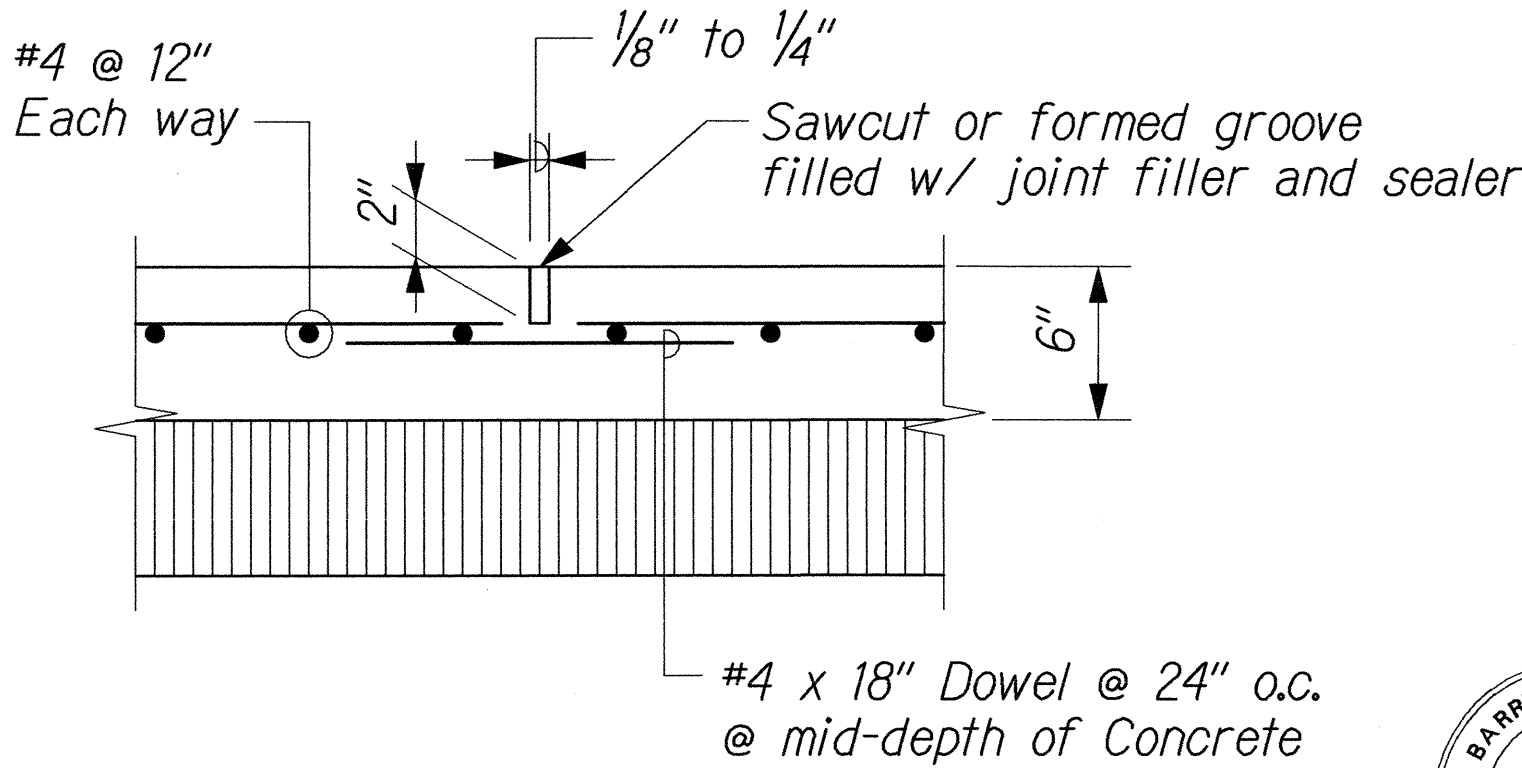
CROSS SECTIONS DRIVEWAY 'C'
Scale: Horiz. 1"=10'
Vert. 1"=5'

- 1** CL CURVE DATA
 $\Delta = 22^\circ 6' 16''$
 $R = 35'$
 $T = 6.84'$
 $C = 13.42'$
 $Lc = 13.50'$
- 2** CL CURVE DATA
 $\Delta = 43^\circ 37' 12''$
 $R = 20'$
 $T = 8.00'$
 $C = 14.86'$
 $Lc = 15.23'$
- 3** CL CURVE DATA
 $\Delta = 22^\circ 11' 32''$
 $R = 20'$
 $T = 3.92'$
 $C = 7.70'$
 $Lc = 7.75'$
- 4** CL CURVE DATA
 $\Delta = 26^\circ 15' 35''$
 $R = 30'$
 $T = 7.00'$
 $C = 13.63'$
 $Lc = 13.75'$
- 5** CL CURVE DATA
 $\Delta = 68^\circ 4' 25''$
 $R = 5.50'$
 $T = 3.71'$
 $C = 6.16'$
 $Lc = 6.53'$
- 6** CL CURVE DATA
 $\Delta = 41^\circ 27' 40''$
 $R = 30'$
 $T = 11.35'$
 $C = 21.24'$
 $Lc = 21.71'$

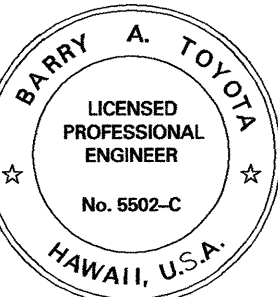
DRIVEWAY 'C' LAYOUT PLAN
Scale: 1"=10'



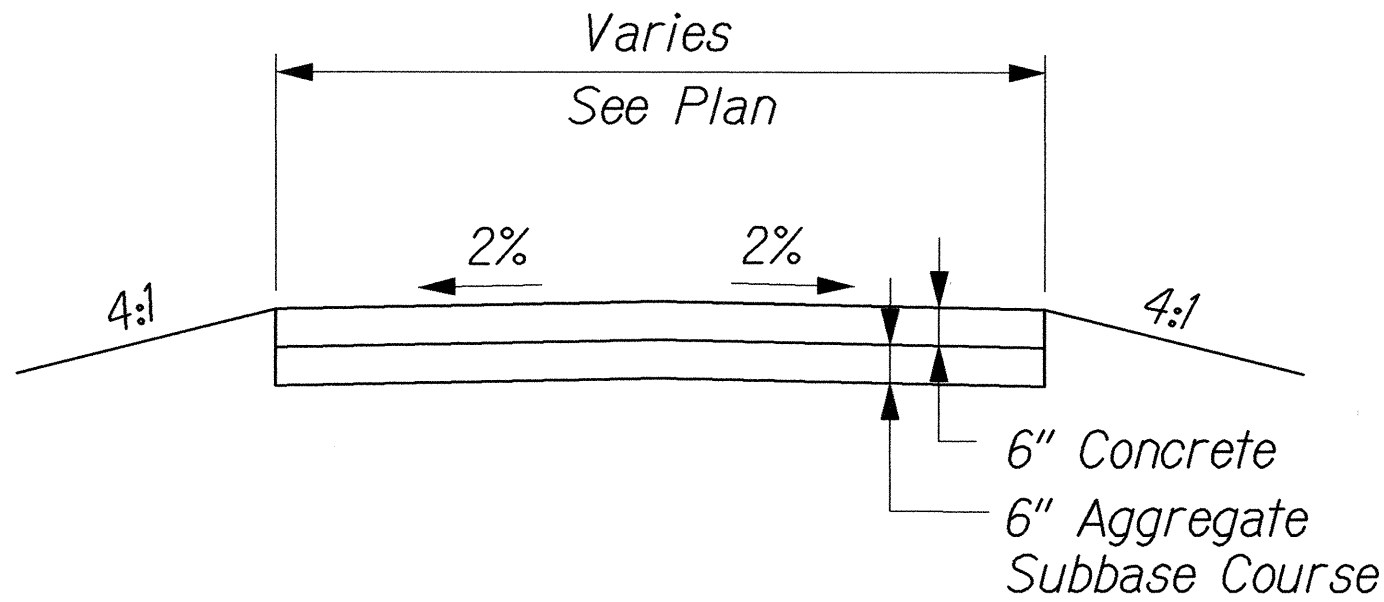
DETAIL
Not to Scale
1 C19C19



DETAIL
Not to Scale
2 C19C19



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 Date: April 30, 2004
 Expiration Date of the License



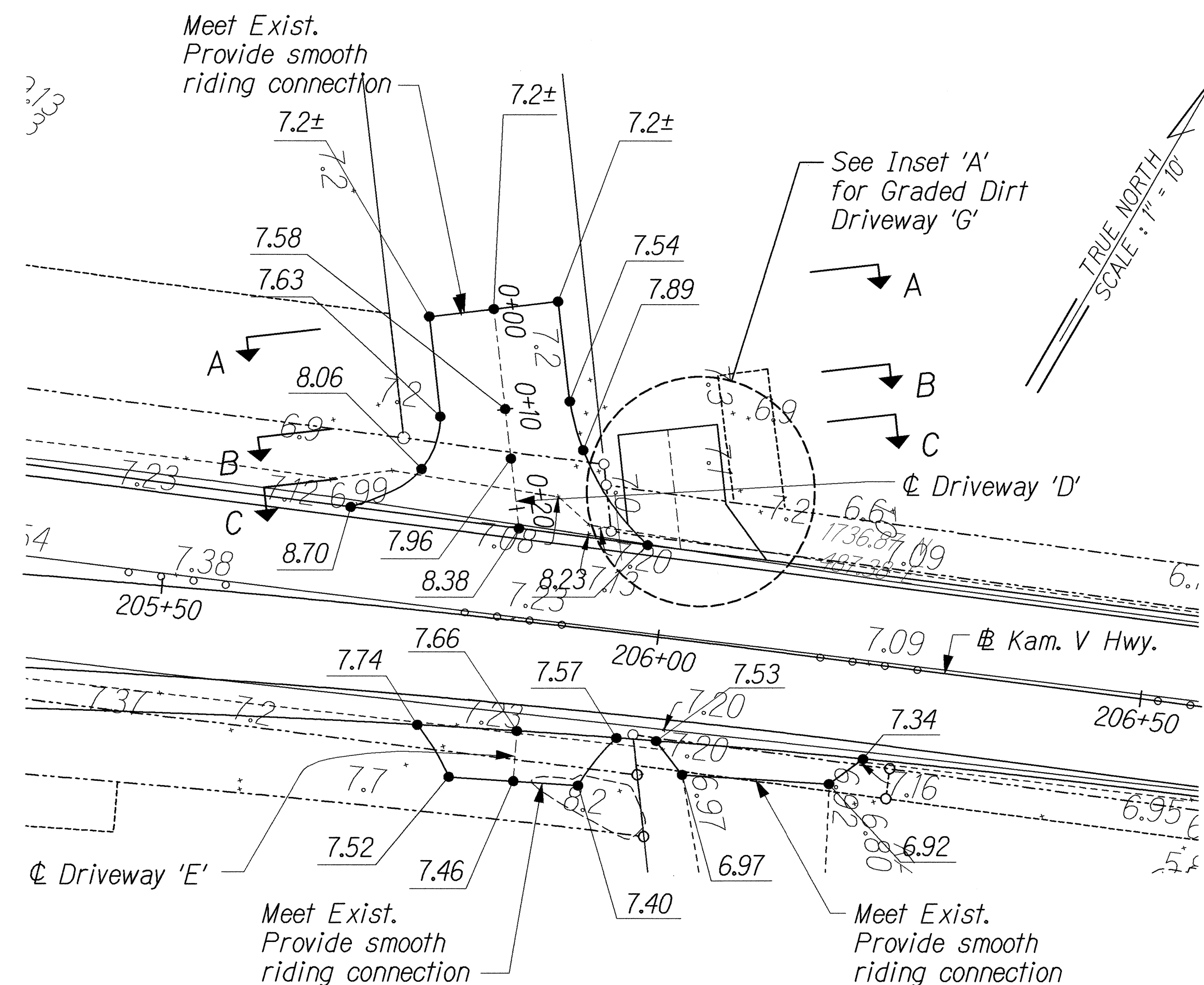
TYPICAL SECTION DRIVEWAY 'C'
Scale: 1/4"=1'-0"

NOTE:
 All stationings are based on new Kamehameha V Highway baseline.

DATE	REVISION
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	DRIVEWAY DETAILS
	KAMEHAMEHA V HIGHWAY EMERGENCY REPLACEMENT OF KAWAIKAPU BRIDGE FEDERAL AID PROJECT NO. ER-12(4)
Scale: As Shown	Date: November 25, 2002

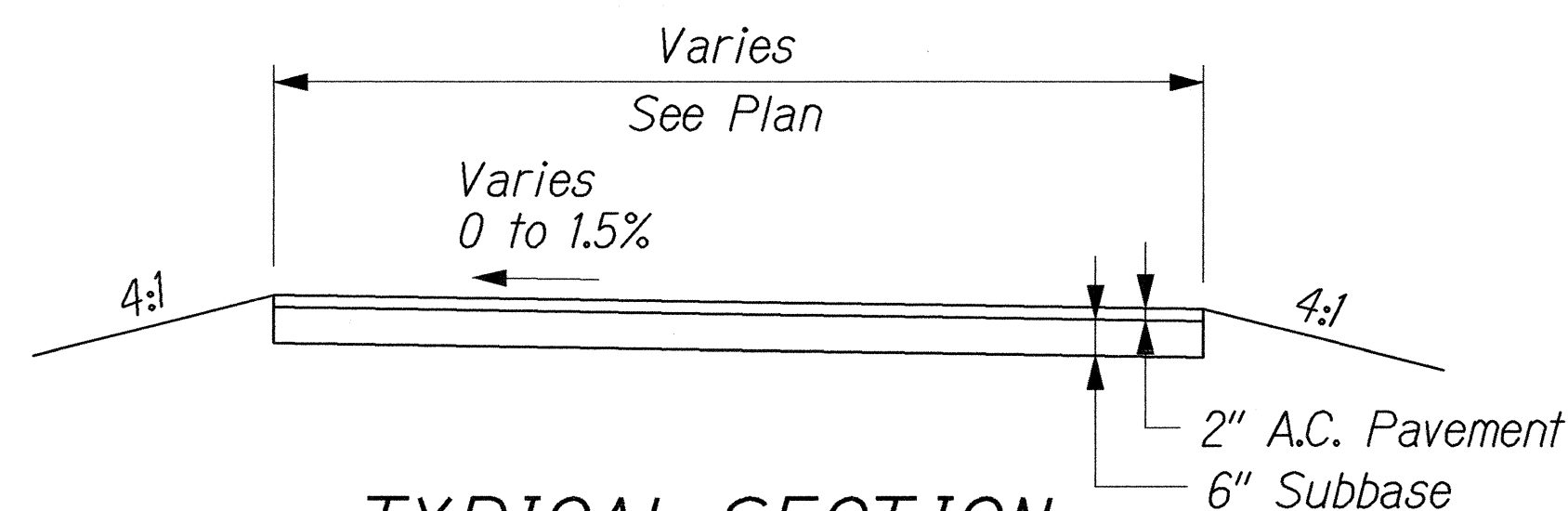
SHEET No. C19 OF 46 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(4)	2003	23	76



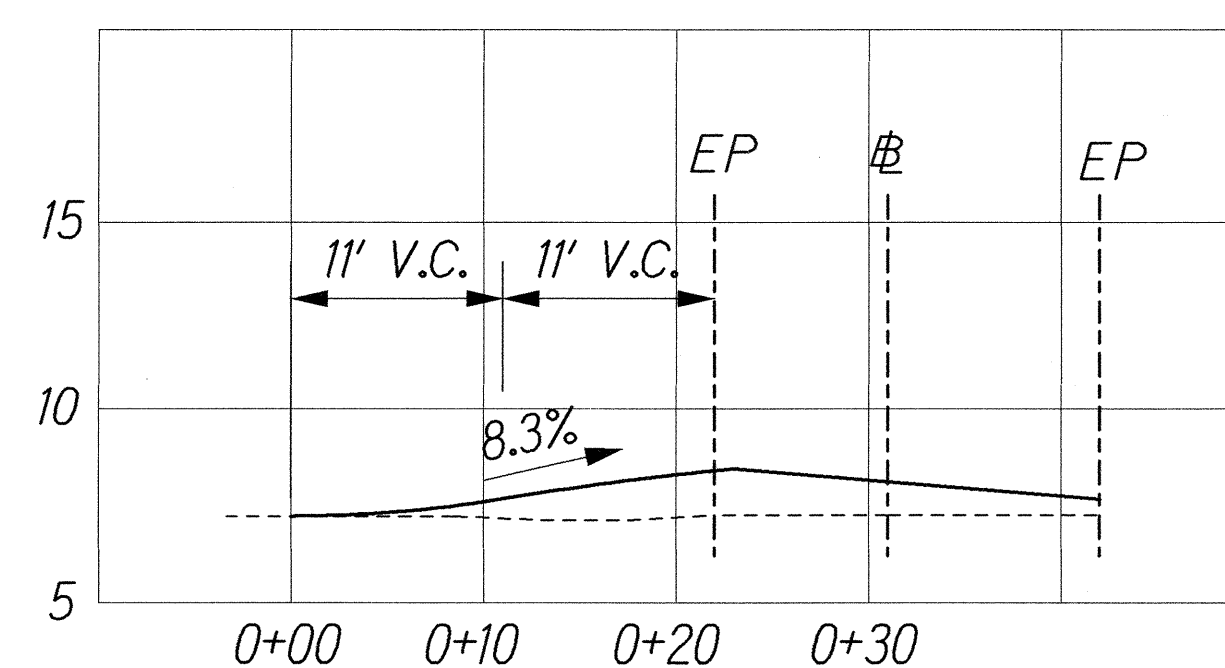
GRADING PLAN - DRIVEWAY 'D', 'E' & 'F'

Scale: 1"=10'



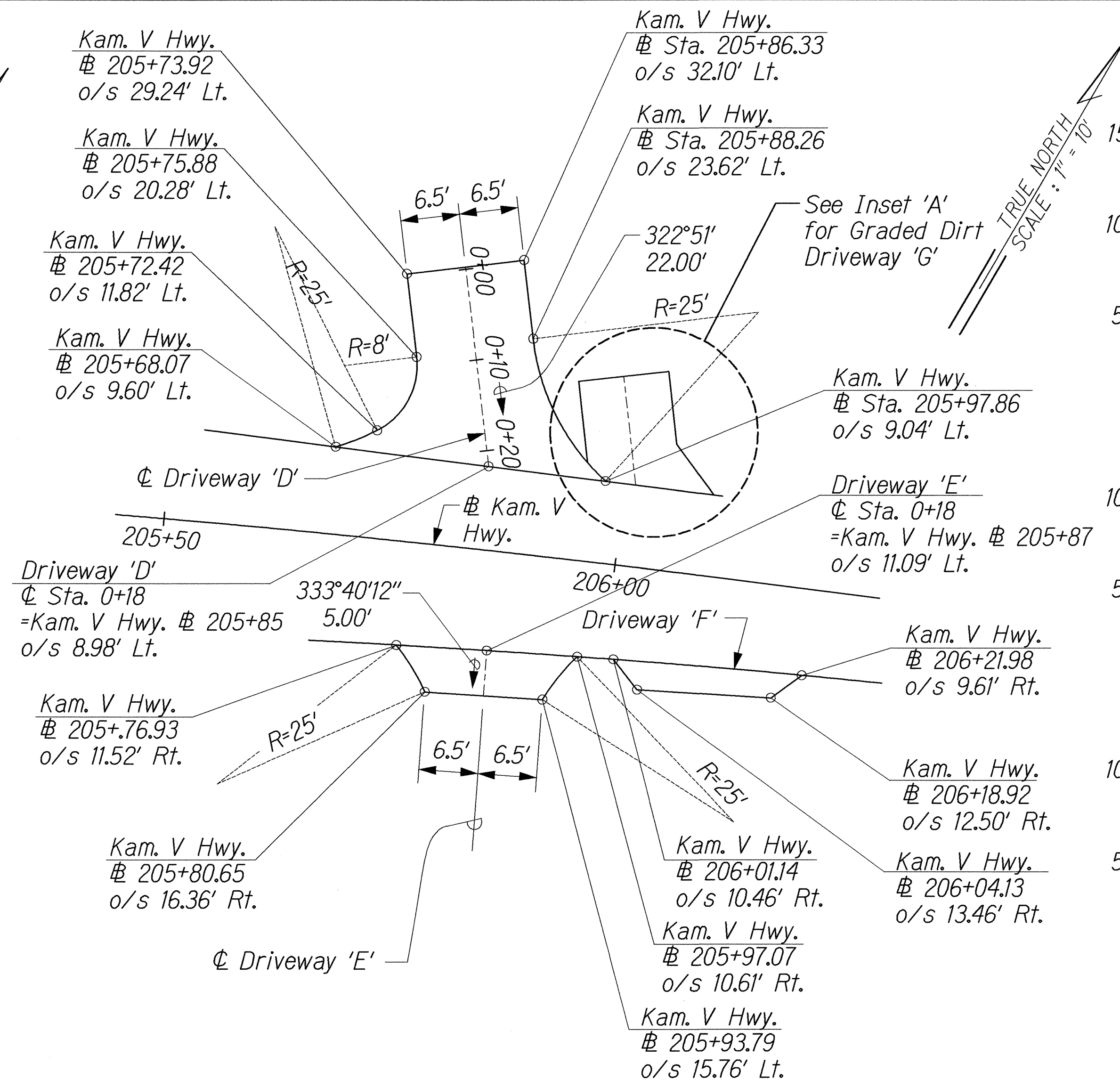
TYPICAL SECTION
DRIVEWAY 'D', 'E' & 'F'

Scale: 1/4"=1'-0"



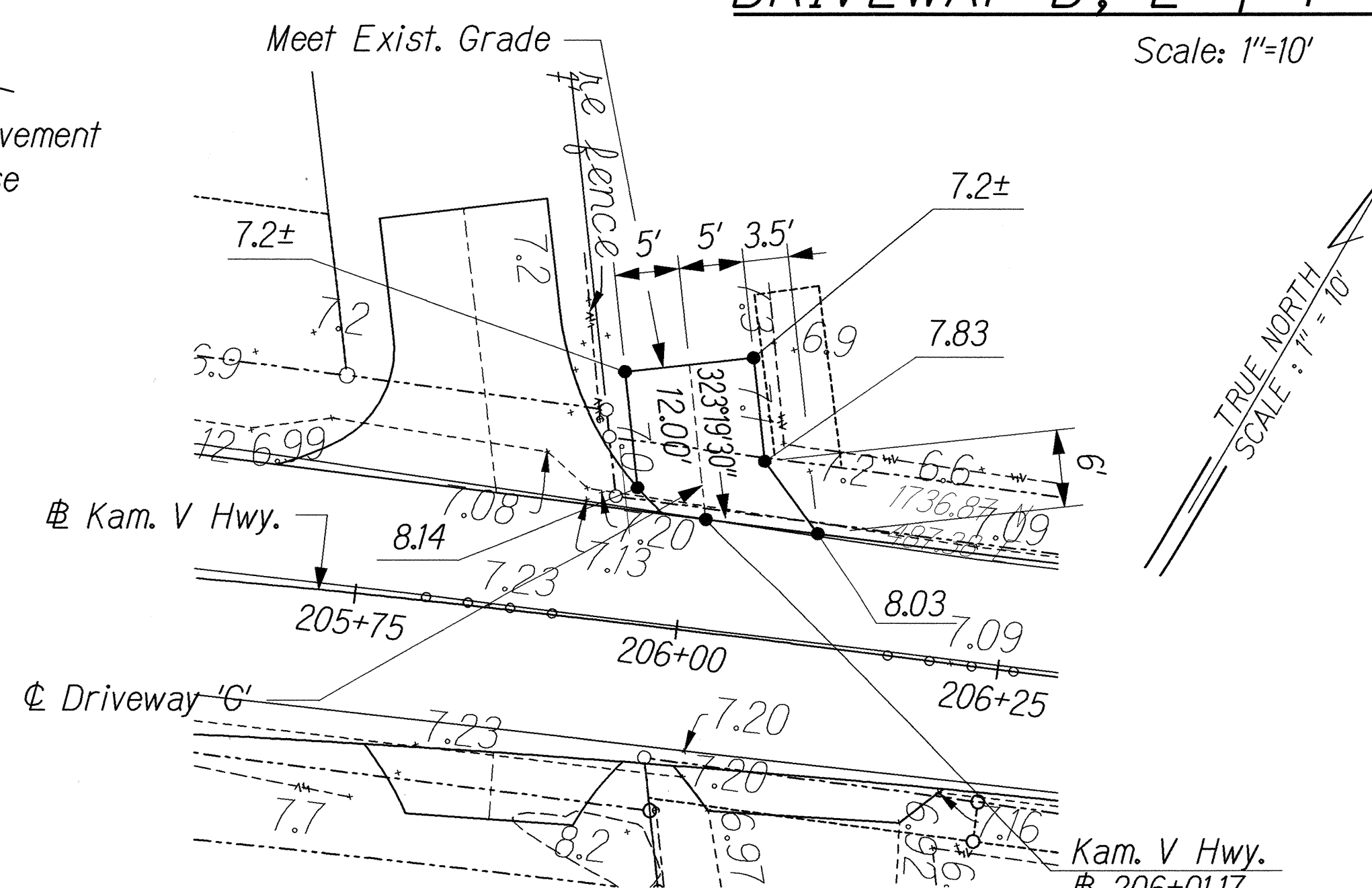
PROFILE - DRIVEWAY 'D'

Scale: Horiz. 1"=10'
Vert. 1"=5'



DRIVEWAY 'D', 'E' & 'F' - LAYOUT PLAN

Scale: 1"=10'

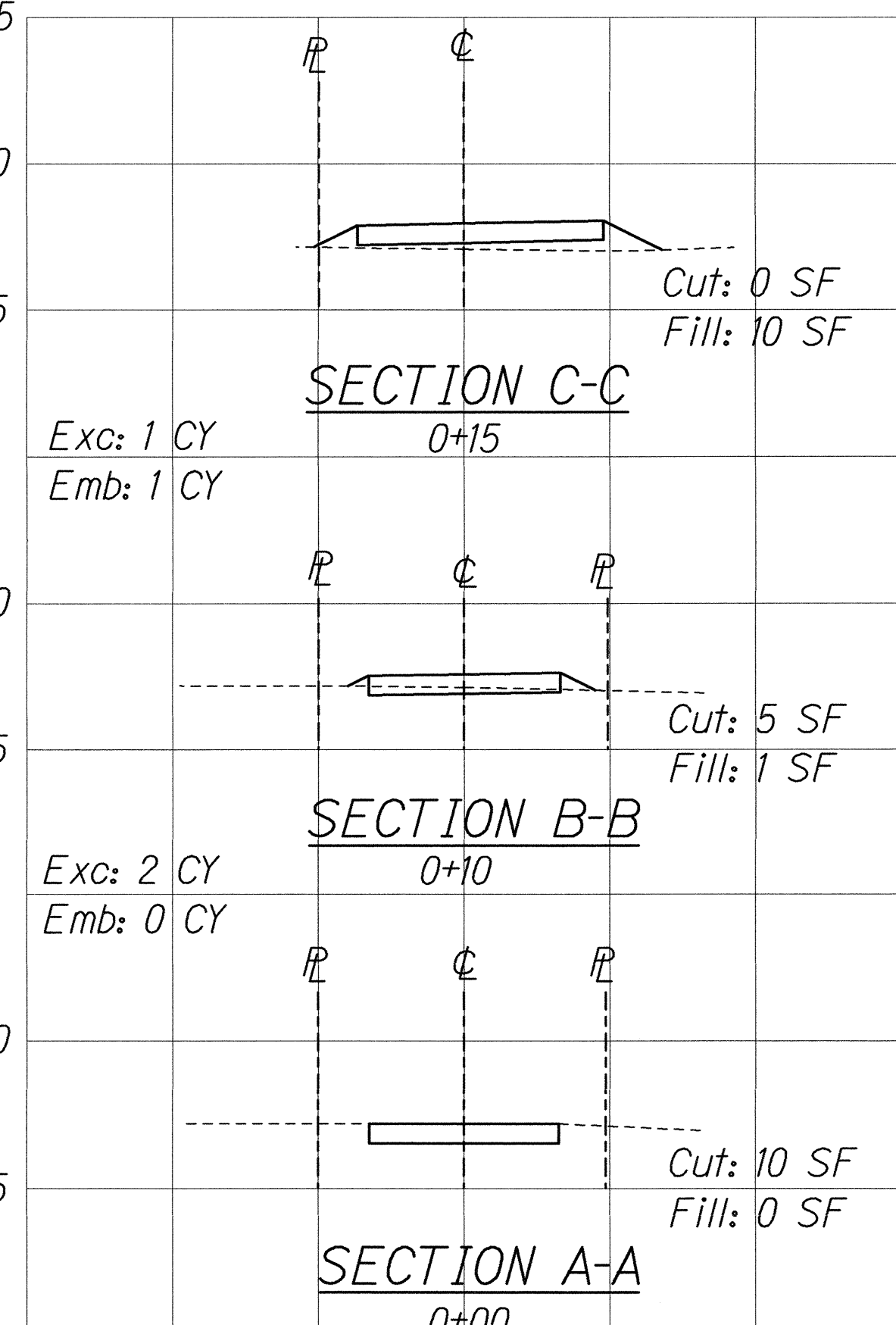


INSET 'A' - GRADED DIRT DRIVEWAY 'G'

Scale: 1"=10'

NOTE:

All stationings are based on new Kamehameha V Highway baseline.



CROSS SECTIONS
DRIVEWAY 'D'

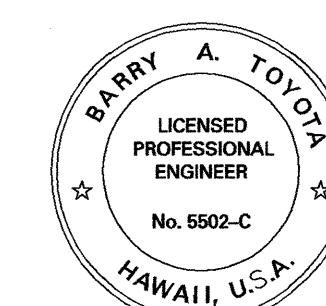
Scale: Horiz. 1"=10'
Vert. 1"=5'

EARTHWORK SUMMARY

Total Cut = 15 SF
Total Fill = 11 SF

Total Exc. = 3 CY
Total Emb. = 1 CY

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



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DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DRIVEWAY DETAILS KAMEHAMEHA V HIGHWAY EMERGENCY REPLACEMENT OF KAWAIKAPU BRIDGE FEDERAL AID PROJECT NO. ER-12(4) Scale: As Shown Date: November 25, 2002	

SHEET No. C20 OF 46 SHEETS