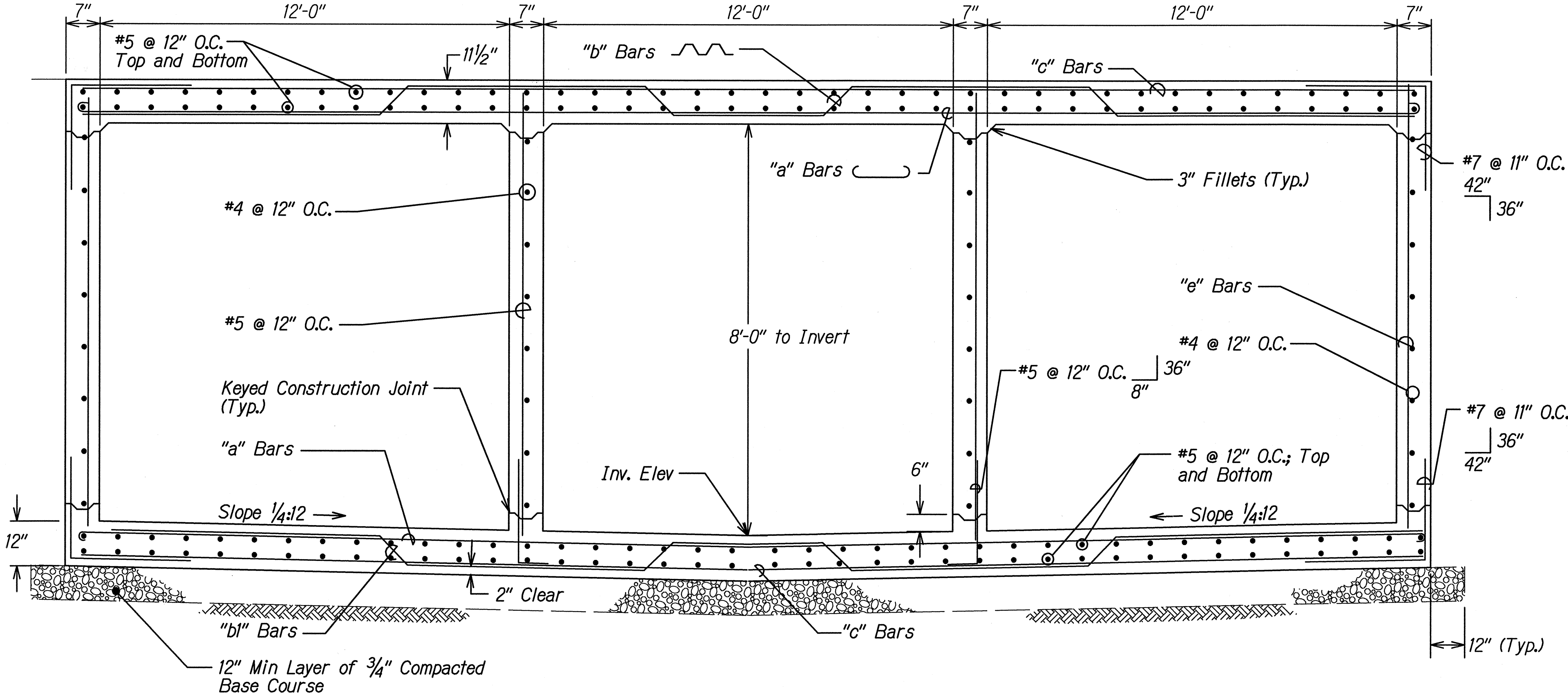


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130B-01-92	1997	37	115

SPAN		12'-0"
HEIGHT		8'-0"
STRENGTH CLASSIFICATION		A
MAX FILL OVER TOP		10
Conc	Top Slab	T ₁
	Bottom Slab	T ₂
	Sidewalls	T ₃
Reinf. Steel	"a"	Size Bar #
		Spacing
		Length
	"b"	Size Bar #
		Spacing
		Length
	"c"	Size Bar #
		Spacing
		Length
	"e" bars	Size Bar #
Quantities	Concrete: CY per lin. ft	
	Reinf. lbs per lin ft.	



TYPICAL SECTION

Note:
For Joint Details and Typical Flashing
Compound Detail See Standard Plan B-01

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DESIGNED BY	DRAWN BY	
CHECKED BY	NOTED BY	
	DATE	



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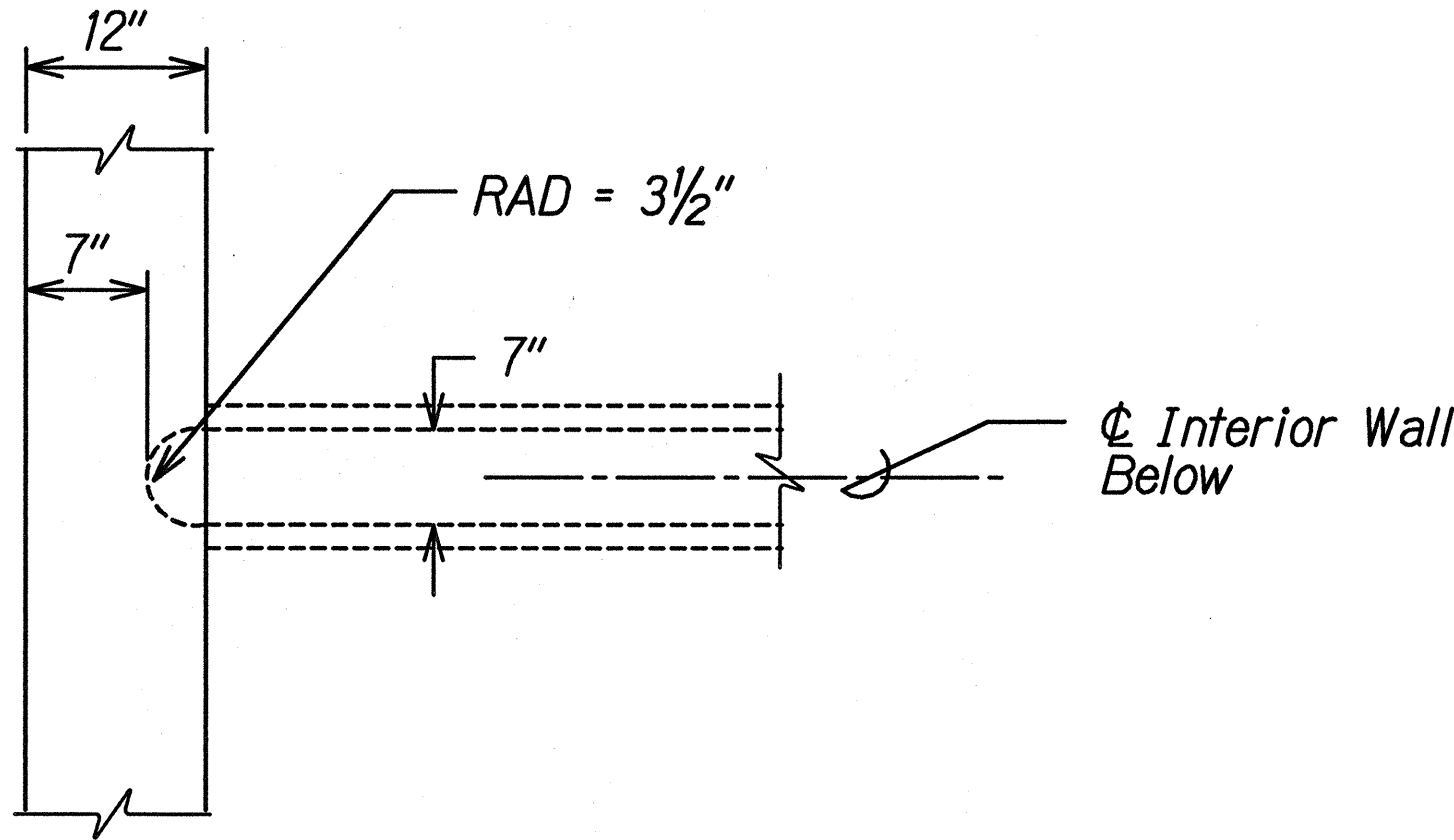
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRIPLE BOX CULVERT

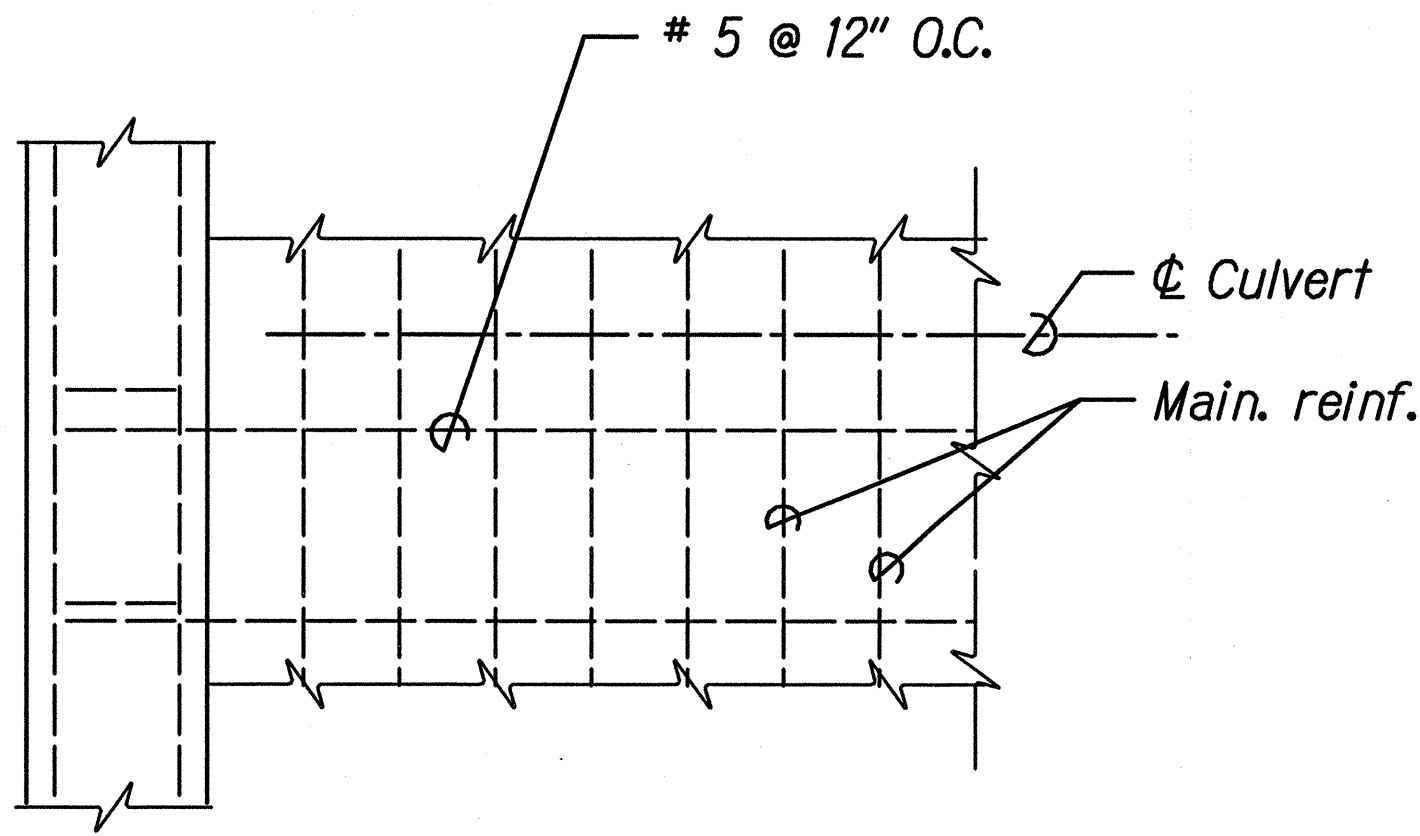
KEA'AU-PAHOA ROAD VICINITY OF
KEA'AU TOWN (KEA'AU BYPASS ROAD)
PROJECT NO. 130B-01-92, PHASE 1
Scale: N.T.S. Date: May, 1997

SHEET No. 1 OF 6 SHEETS

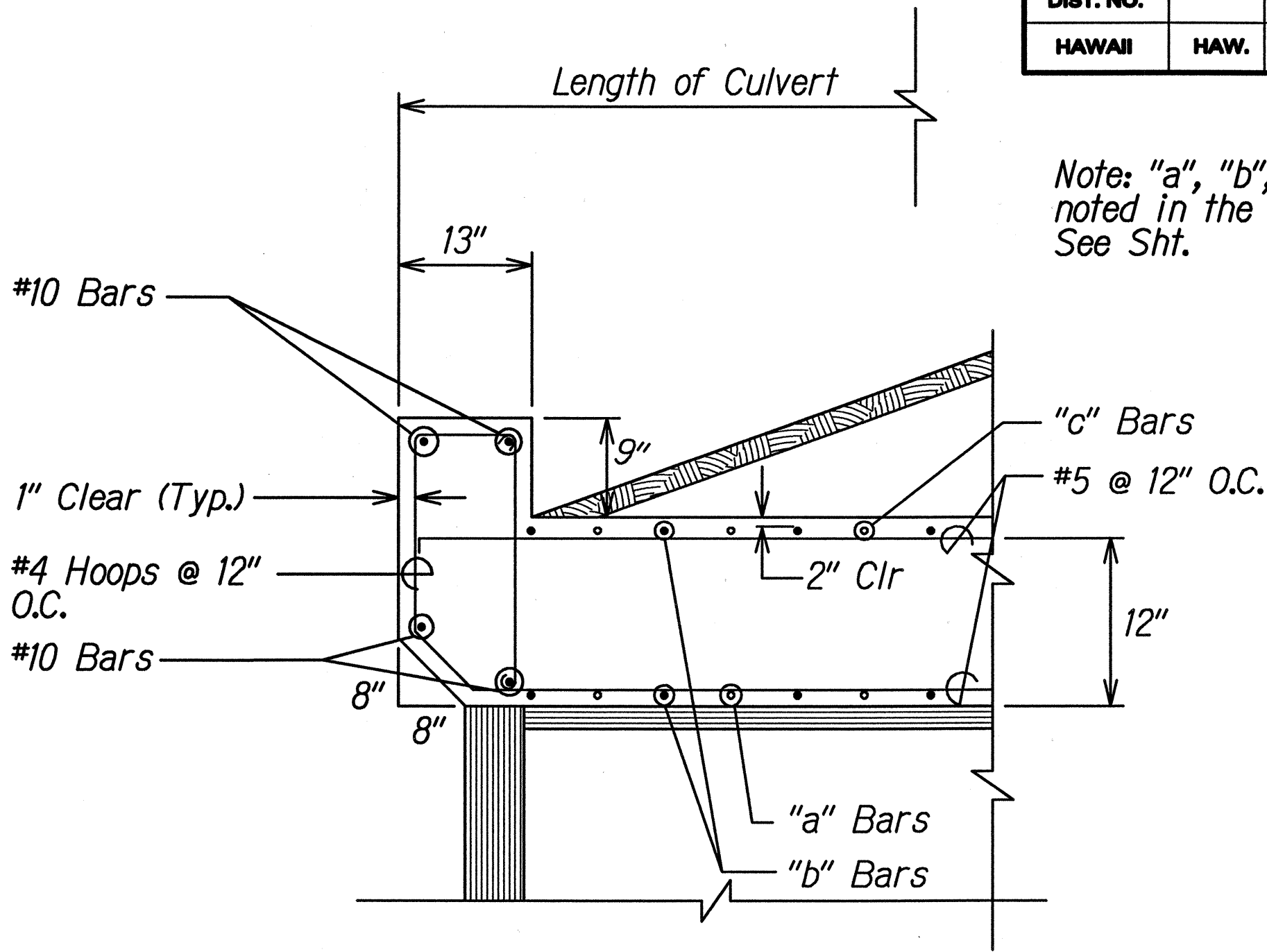
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130B-01-92	1997	38	115



PARTIAL PLAN



PARTIAL PLAN SHOWING REINFORCING

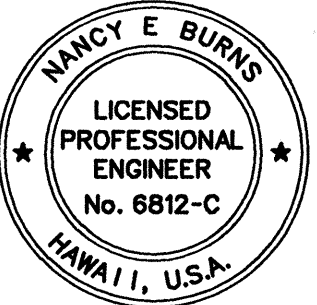


Note: "a", "b", and "c" Bars shall be noted in the triple Box Culvert Detail See Sht.

PARTIAL SECTION

PARAPET DETAILS FOR MULTIPLE SPAN CULVERTS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	TRACED BY	
CHECKED BY	DESIGNED BY	
	CHECKED BY	



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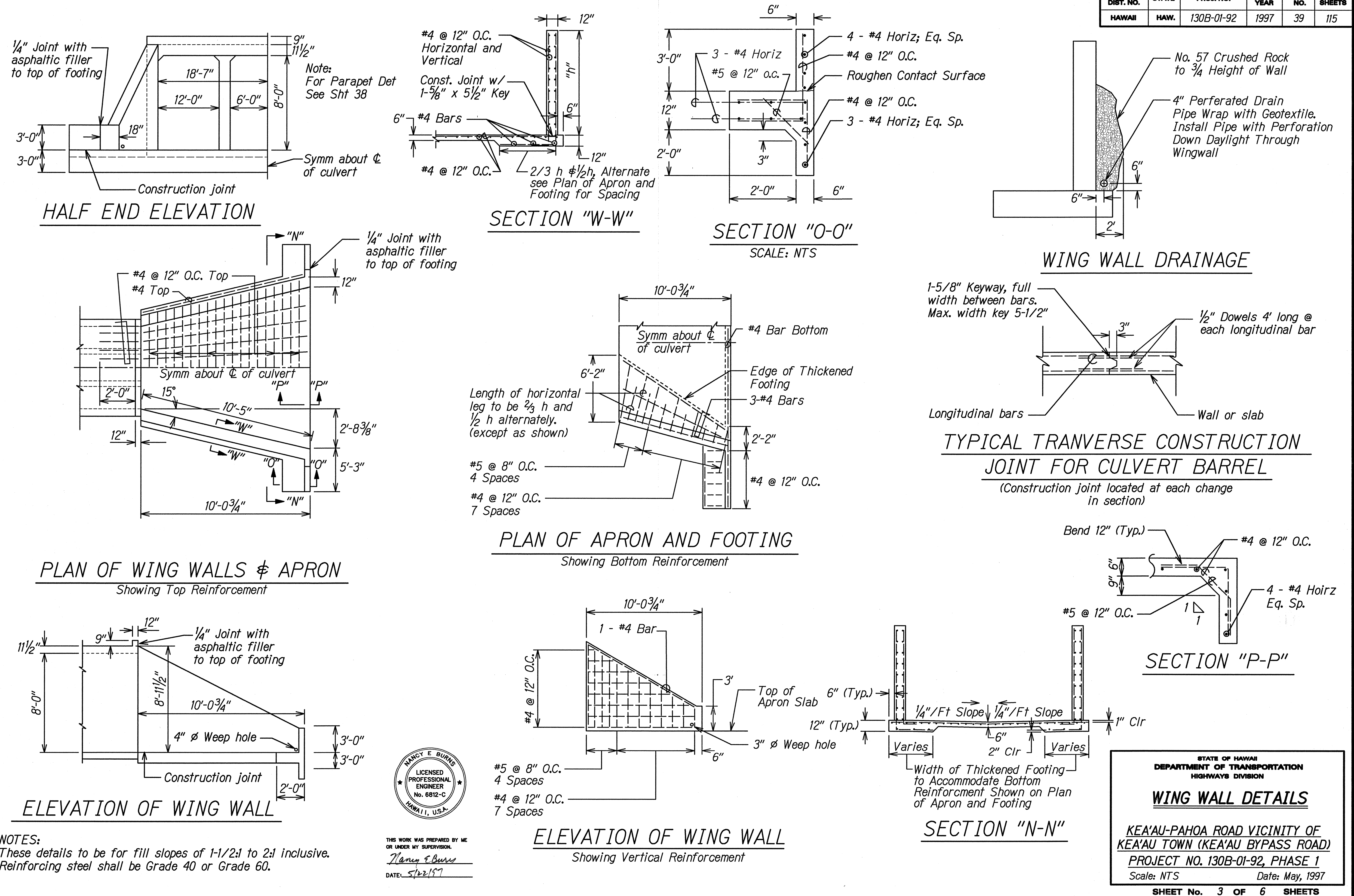
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PARAPET DETAILS FOR
BOX CULVERTS**

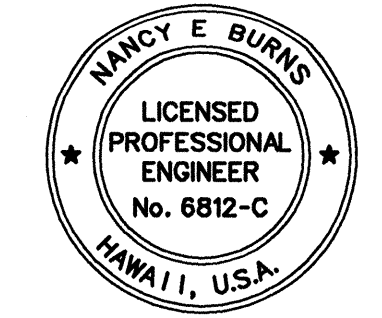
KEA'AU-PAHOA ROAD VICINITY OF
KEA'AU TOWN (KEA'AU BYPASS ROAD)
PROJECT NO. 130B-01-92, PHASE 1
Scale: N.T.S.

Date: May, 1997

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130B-01-92	1997	39	115



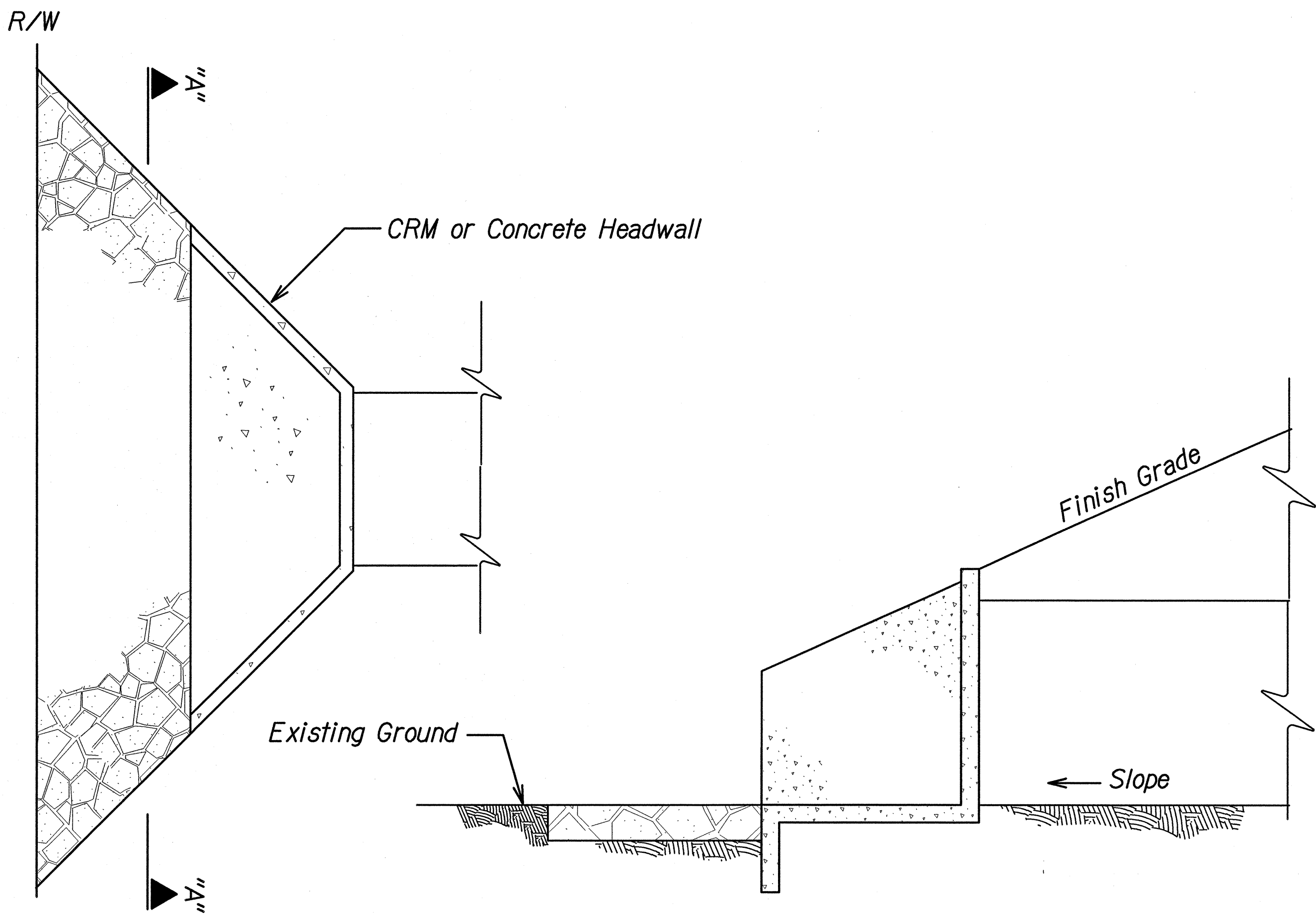
NOTES:
These details to be for fill slopes of 1-1/2:1 to 2:1 inclusive.
Reinforcing steel shall be Grade 40 or Grade 60.



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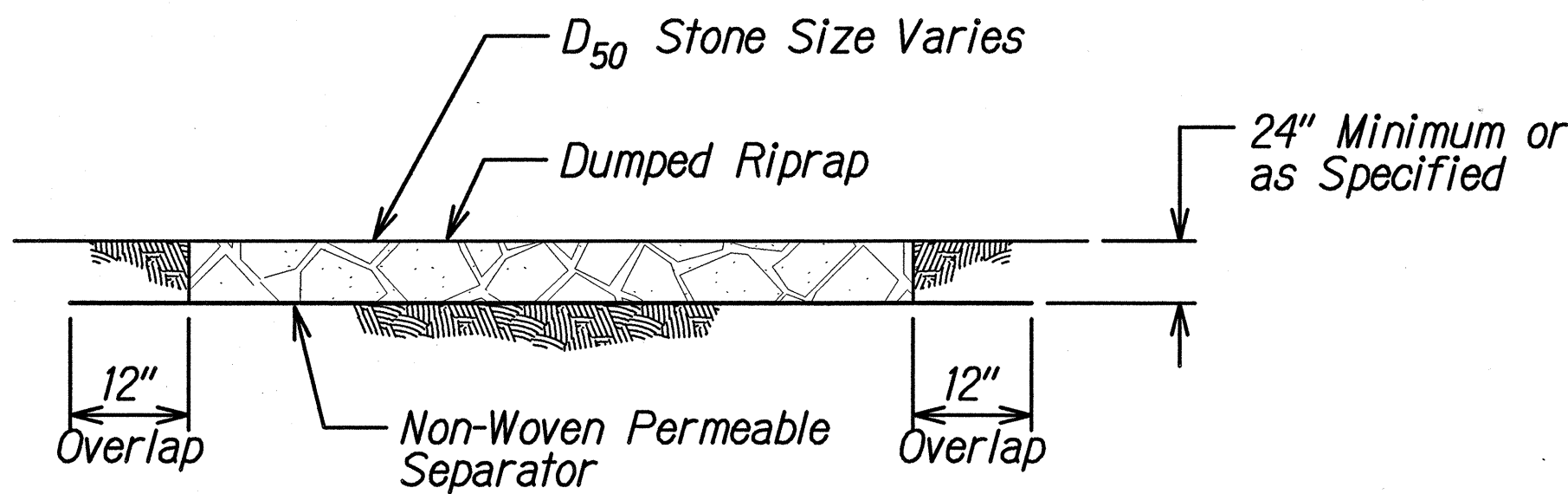
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY	NOTED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130B-01-92	1997	40	115



Plan

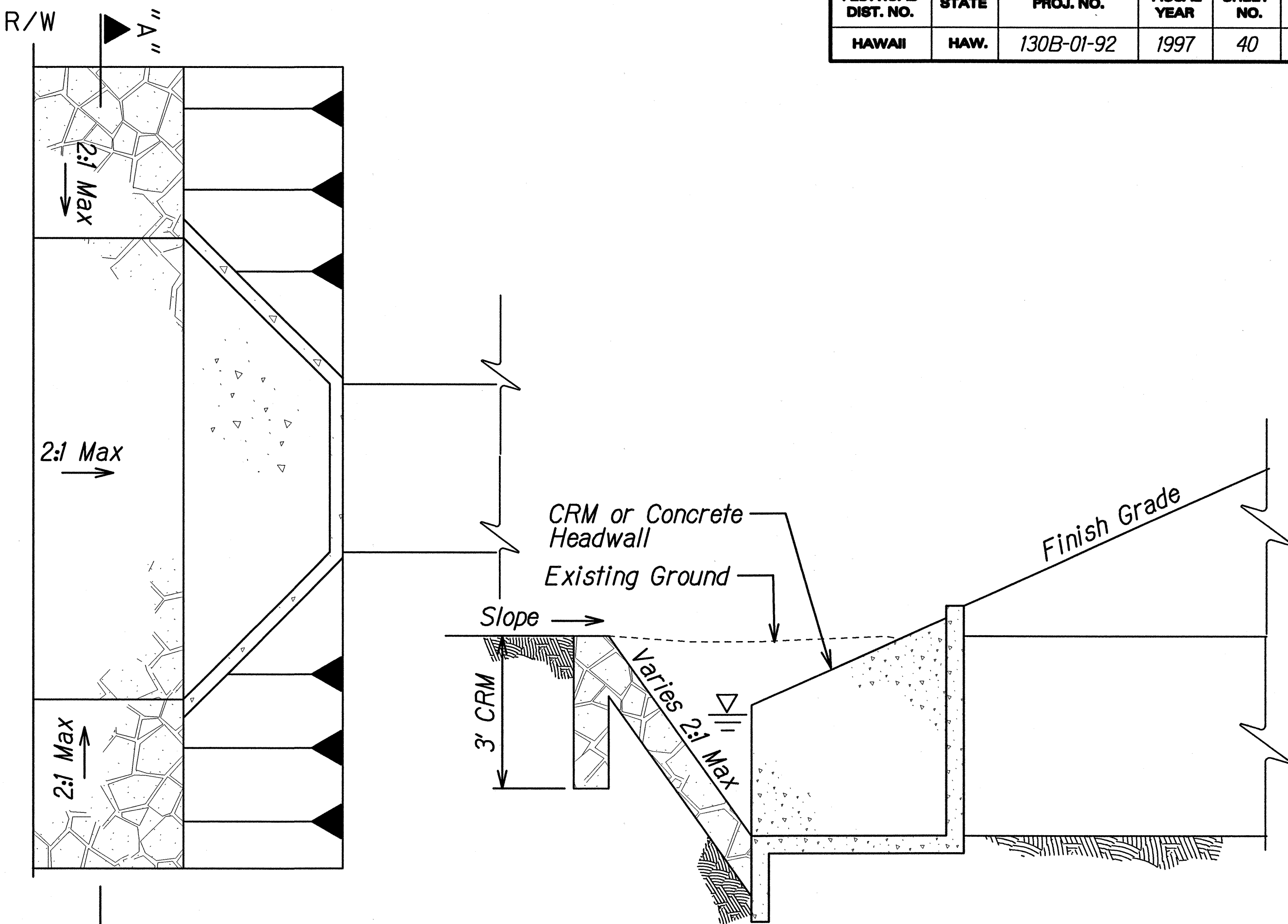
Elevation



Section "A"-"A"

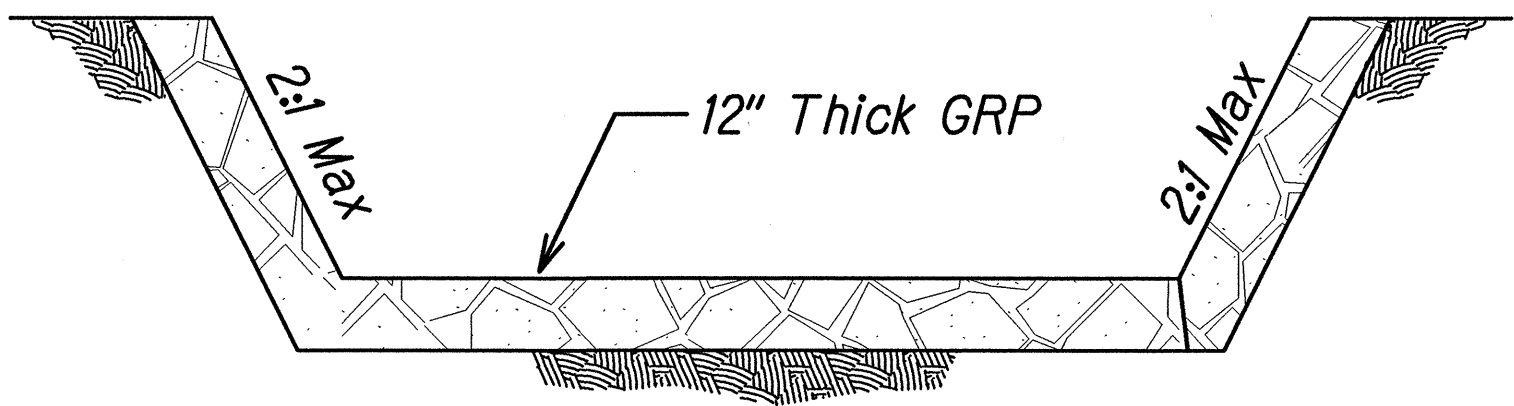
Riprap Thickness	D ₅₀ Stone Size	D ₅₀ Stone Weight
24 in	8 in	25 lb
42 in	24 in	700 lb

RIPRAP APRON AT CULVERT OUTLET
N.T.S



Plan

Elevation



Section "A"-"A"

GRP PAVED APRON AT CULVERT INLET
N.T.S



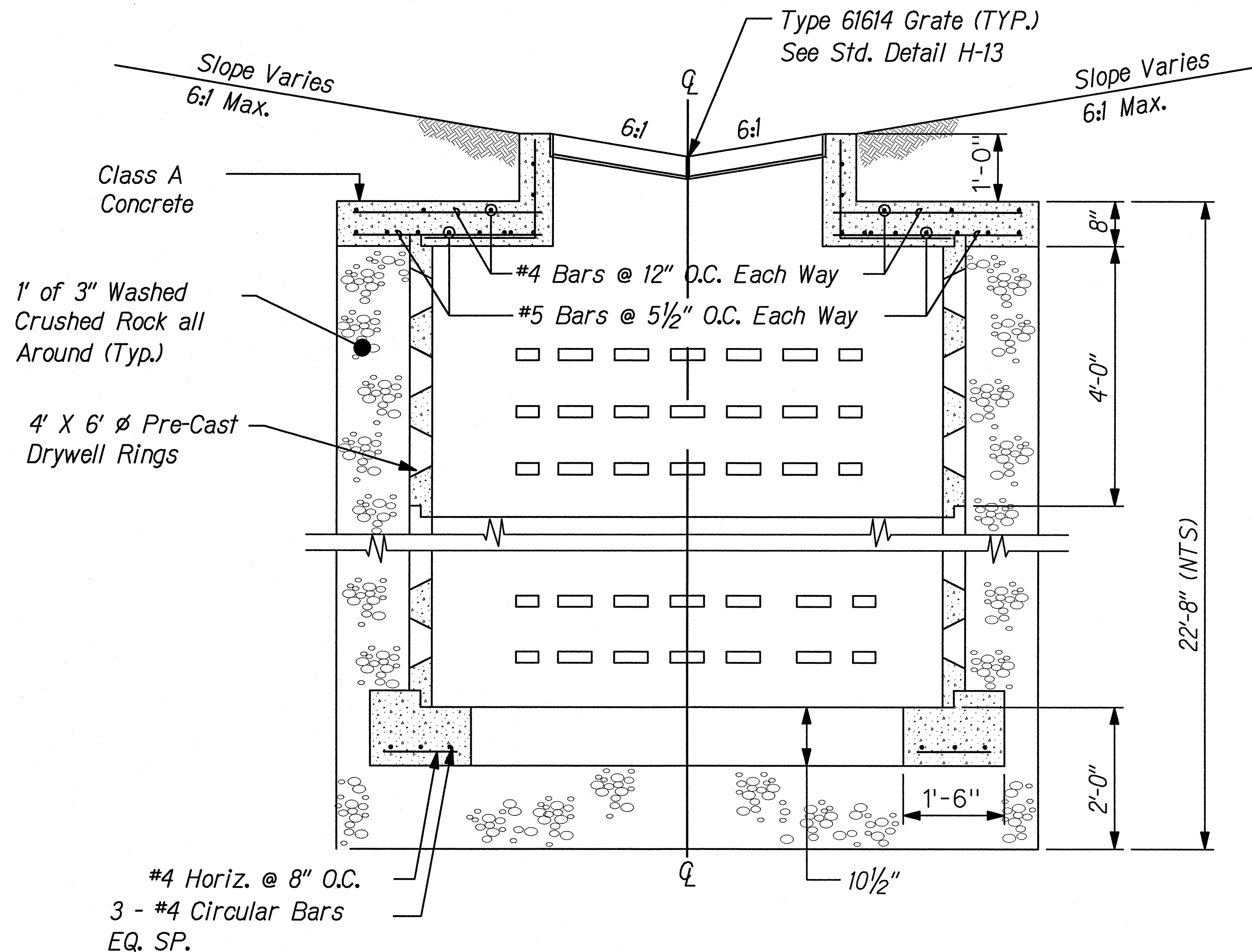
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RIPRAP & GRP APRON
DETAILS

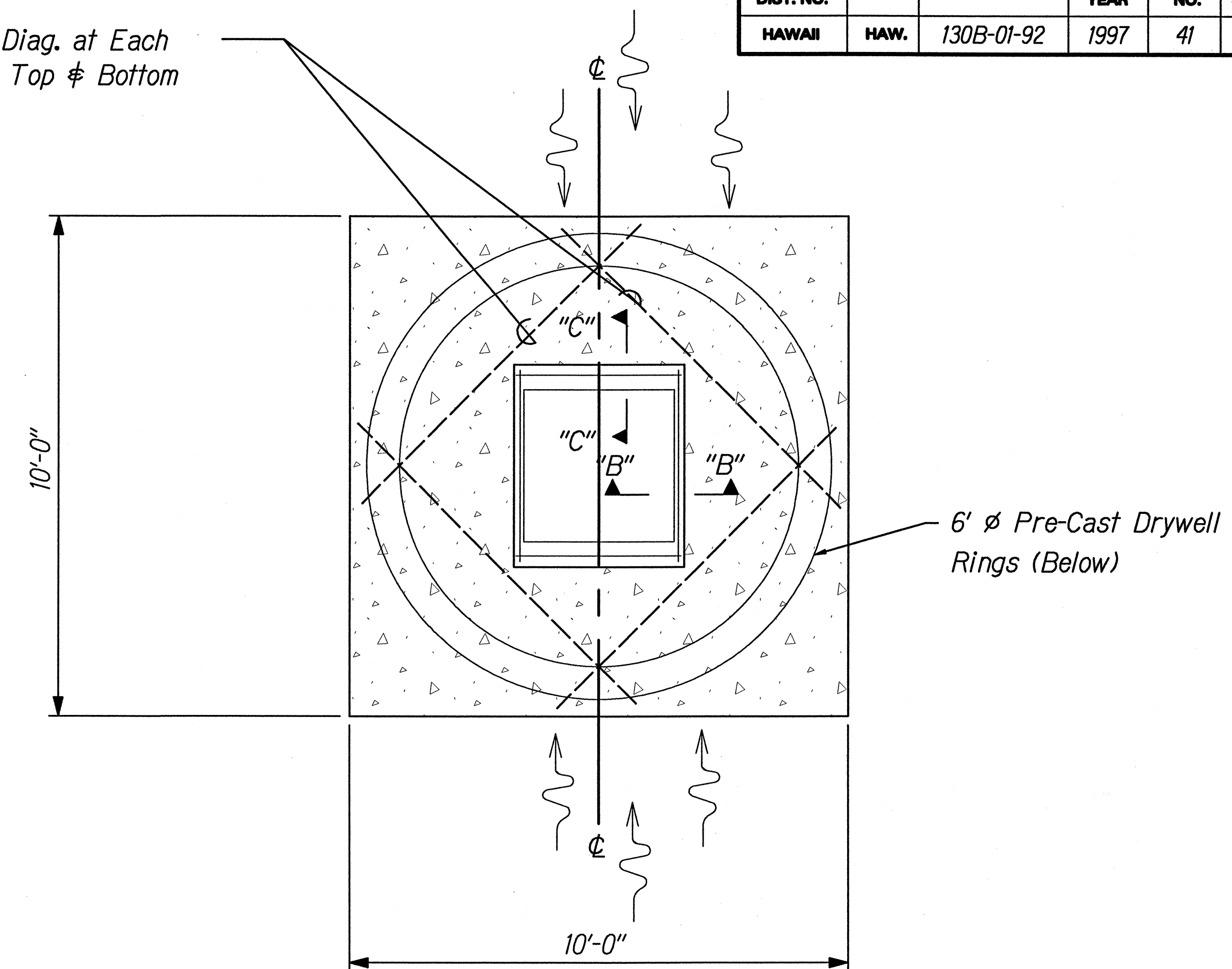
KEA'AU-PAHOA ROAD VICINITY OF
KEA'AU TOWN (KEA'AU BYPASS ROAD)
PROJECT NO. 130B-01-92, PHASE 1
Scale: NTS Date: May, 1997

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130B-01-92	1997	41	115

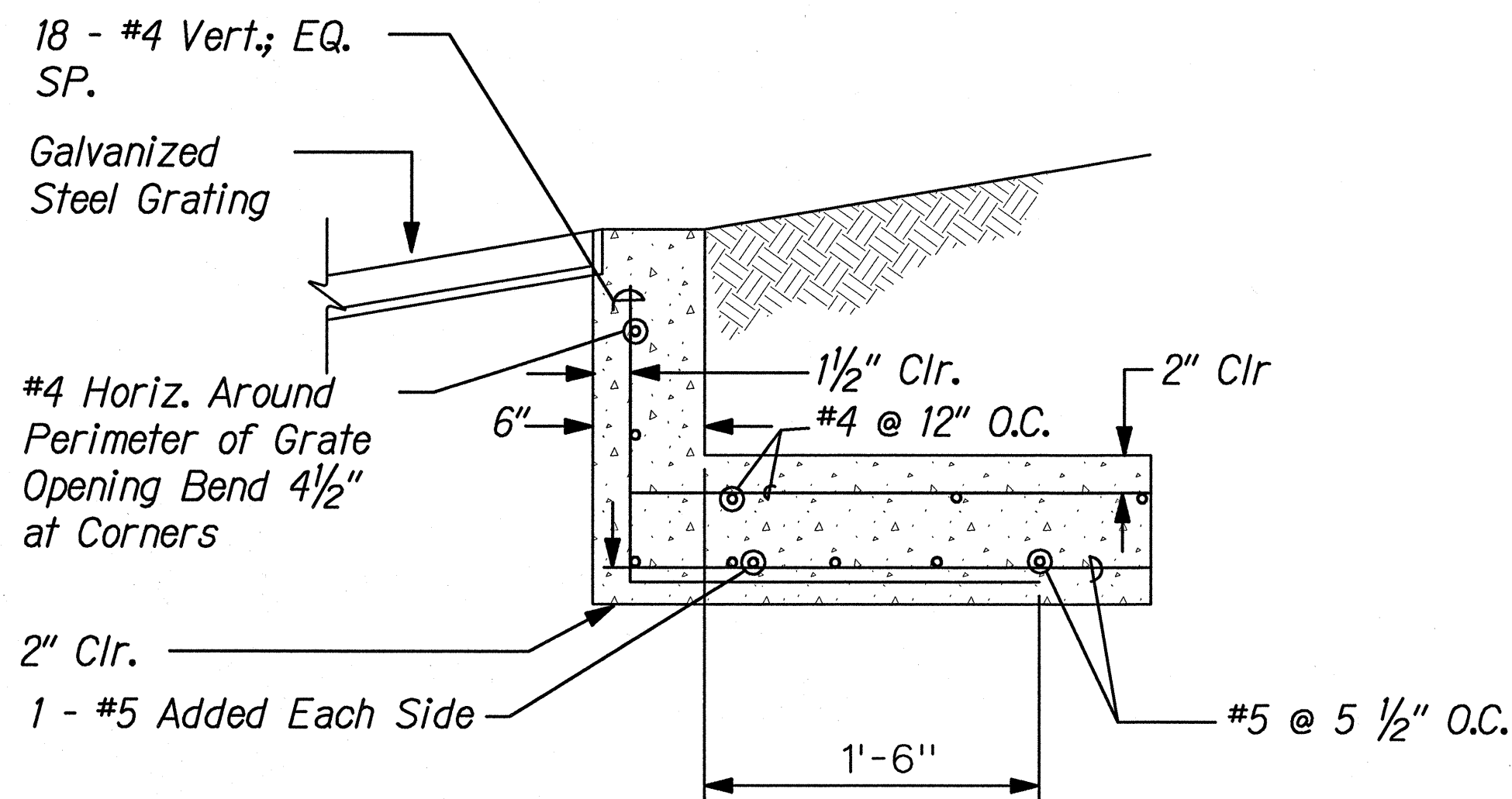


SECTION "A" - "A"
SCALE: 3/4" = 1'-0"
FILE: DW-4.DGN

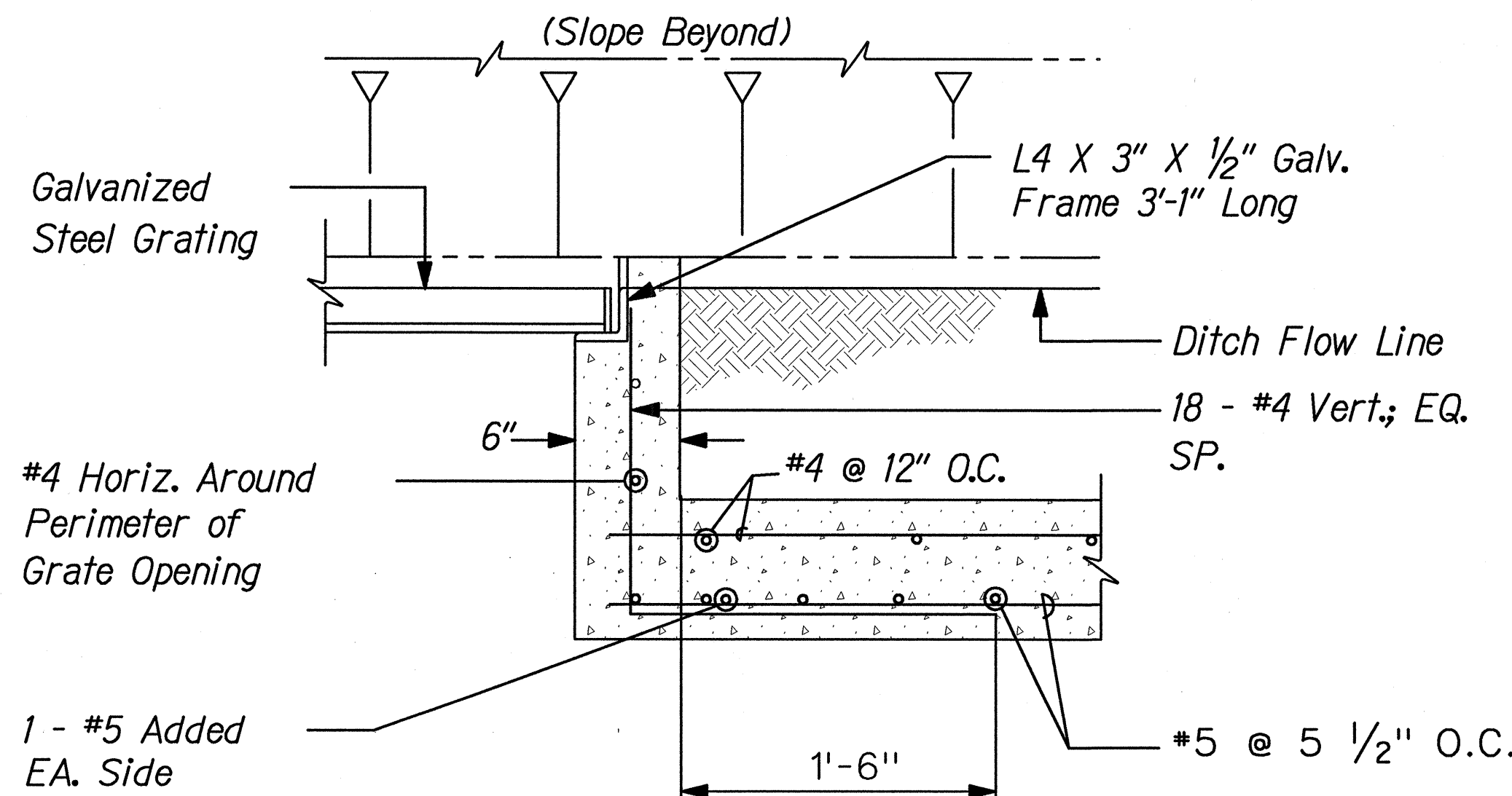
1 - #5 Diag. at Each Corner Top & Bottom



DRYWELL COVER PLAN
SCALE: 1/2" = 1'-0"
FILE: DW-1.DGN



SECTION "B" - "B"



SECTION "C" - "C"

TYPE 61614 DRYWELL & COVER
SCALE: 1.5" = 1'-0"
FILE: DW-3.DGN



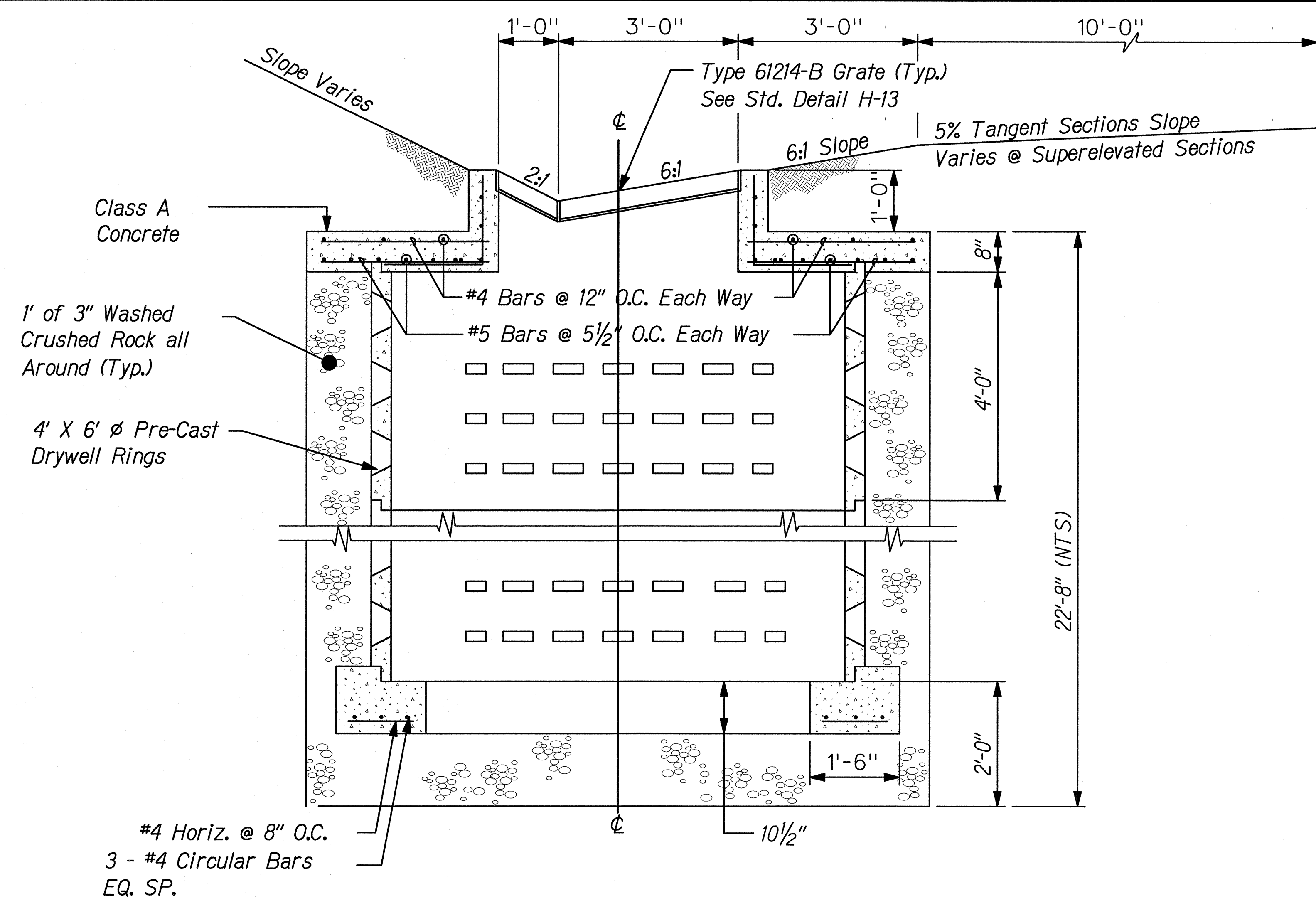
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DATE: 5/22/97

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPE 61614
DRYWELL DETAILS
KEA'AU-PAHOA ROAD VICINITY OF
KEA'AU TOWN (KEA'AU BYPASS ROAD)
PROJECT NO. 130B-01-92, PHASE 1
Scale: NTS Date: May, 1997

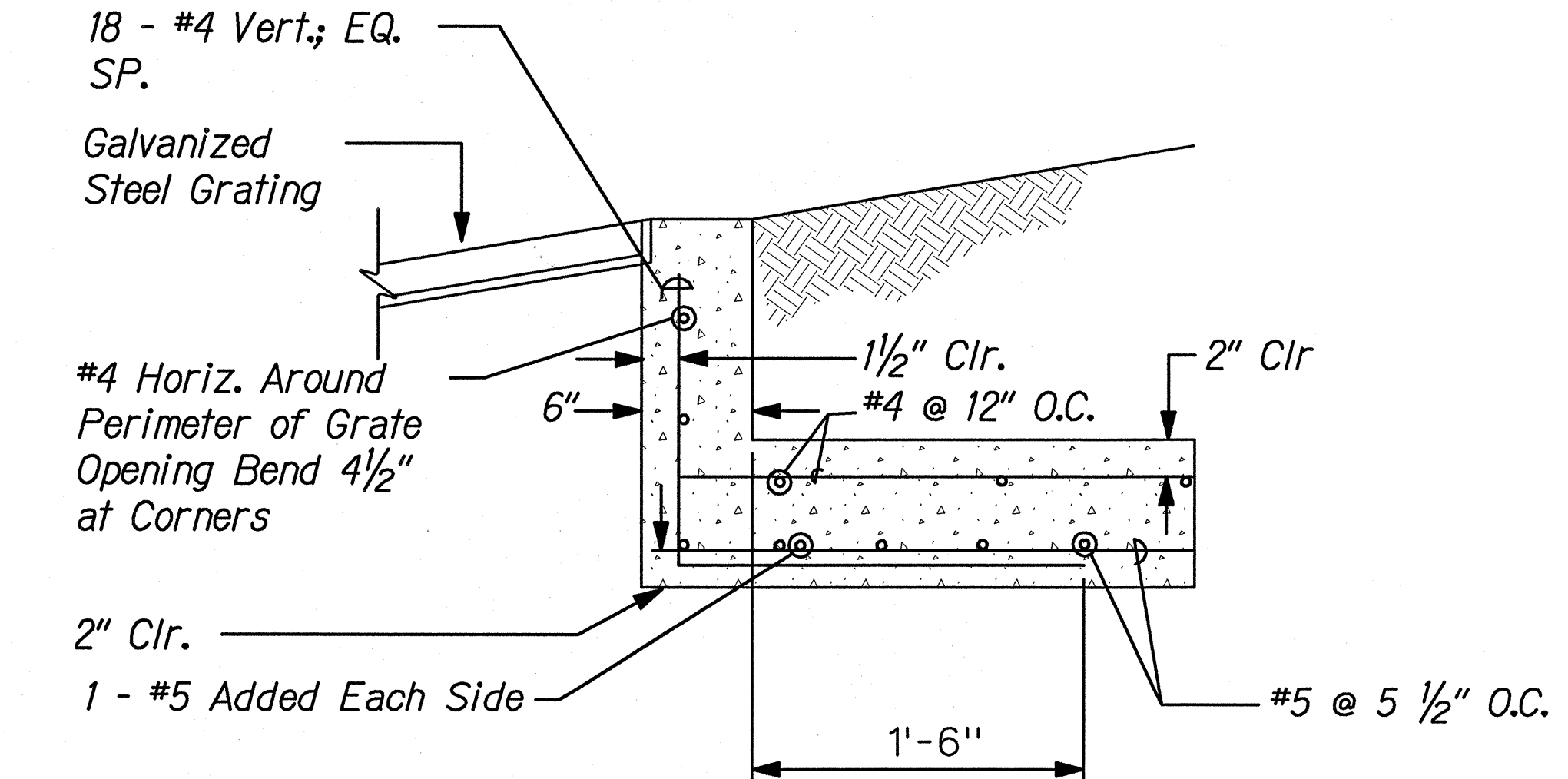
SHEET No. 5 OF 6 SHEETS

DATE	_____
SURVEY PLATTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	130B-01-92	1997	42	115

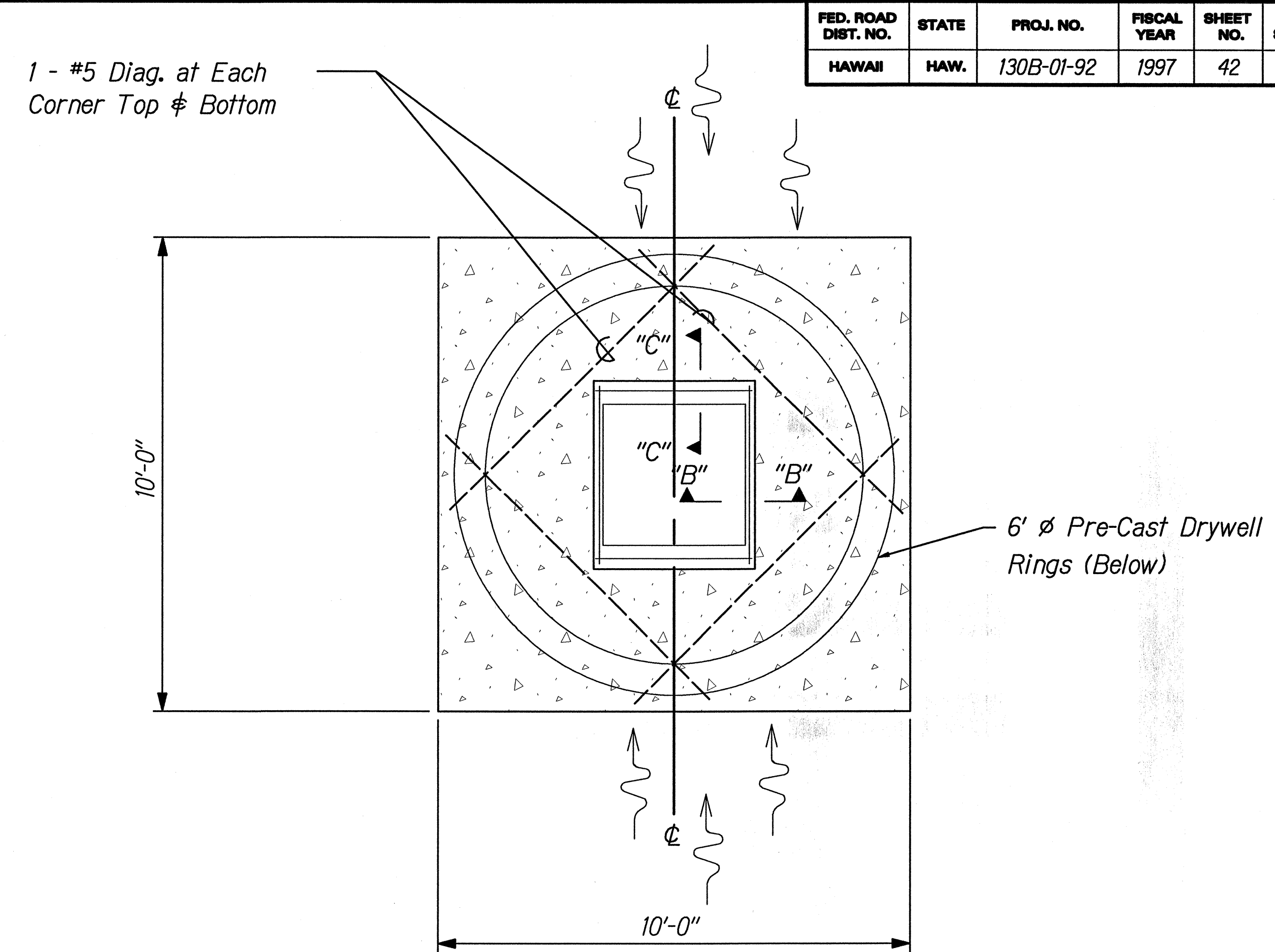


SECTION "A" - "A"
SCALE: 3/4" = 1'-0"
FILE: DW-4BDGN

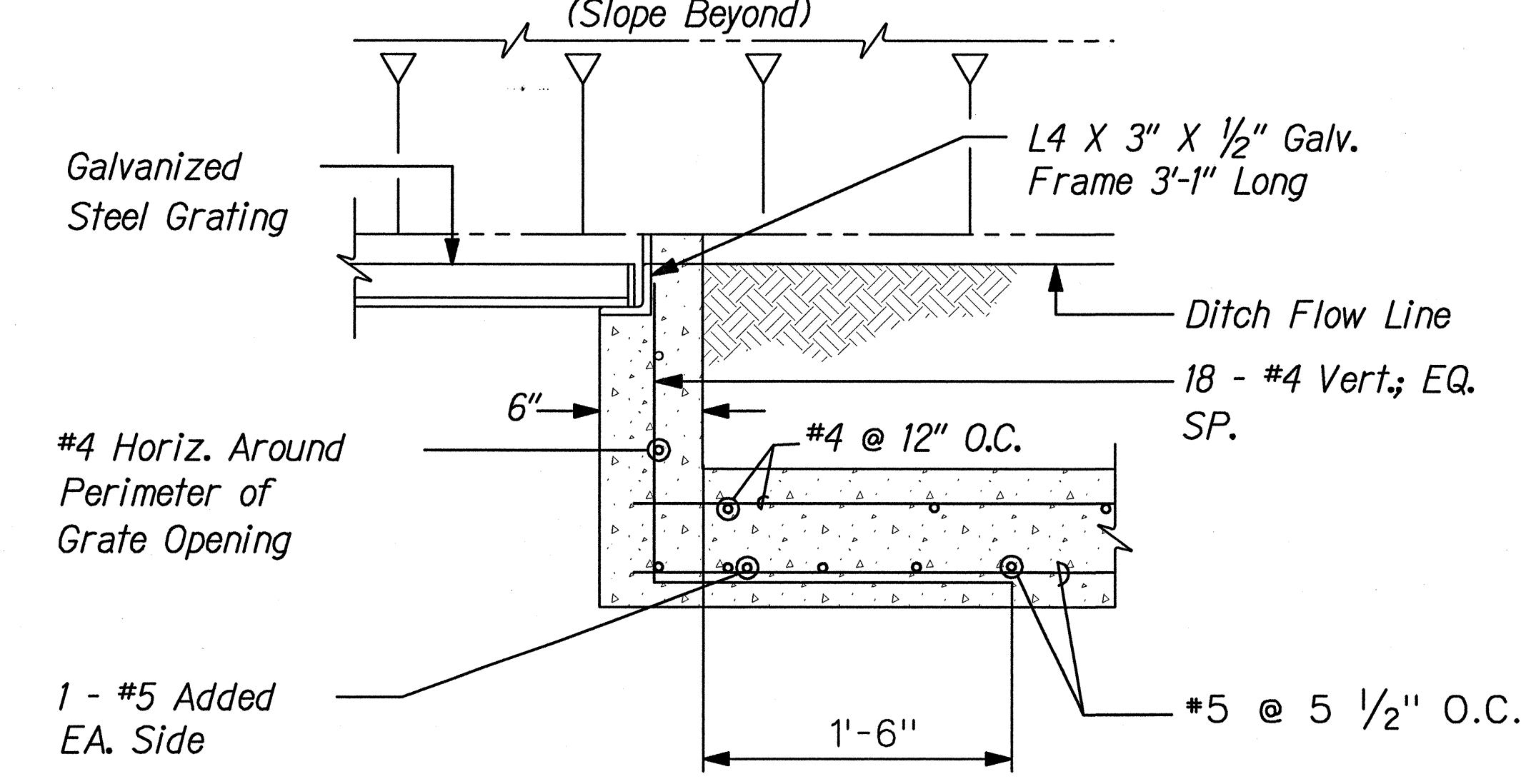


SECTION "B" - "B"

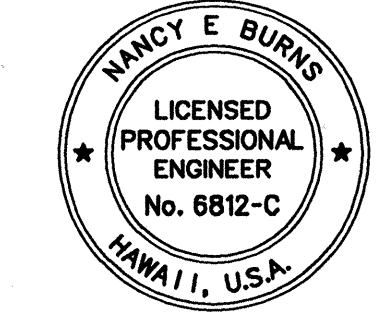
TYPE 61214 DRYWELL & COVER
SCALE: 1/2" = 1'-0"
FILE: DW-3DGN



DRYWELL COVER PLAN
SCALE: 1/2" = 1'-0"
FILE: DW-1DGN



SECTION "C" - "C"



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**TYPE 61214-B
DRYWELL DETAILS**
KEA'AU-PAHOA ROAD VICINITY OF
KEA'AU TOWN (KEA'AU BYPASS ROAD)
PROJECT NO. 130B-01-92, PHASE 1
Scale: NTS Date: May, 1997