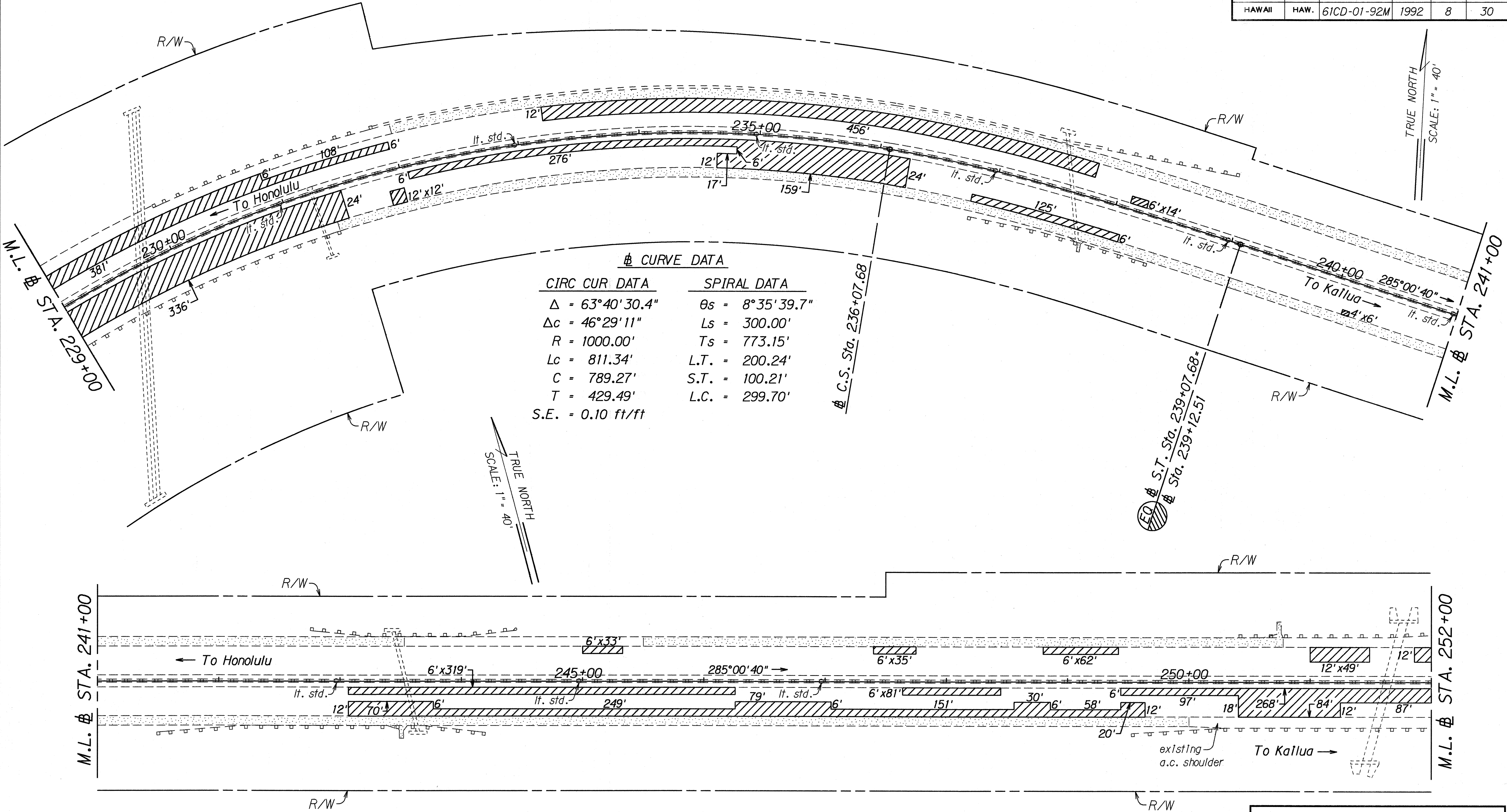


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61CD-01-92M	1992	8	30



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
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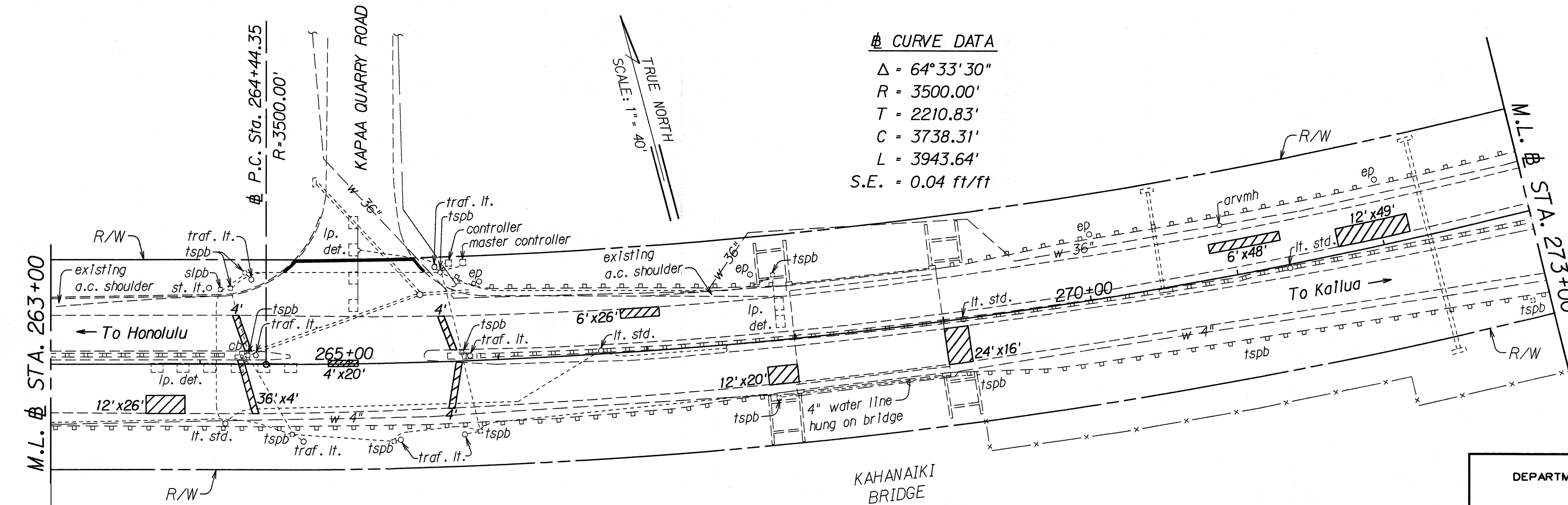
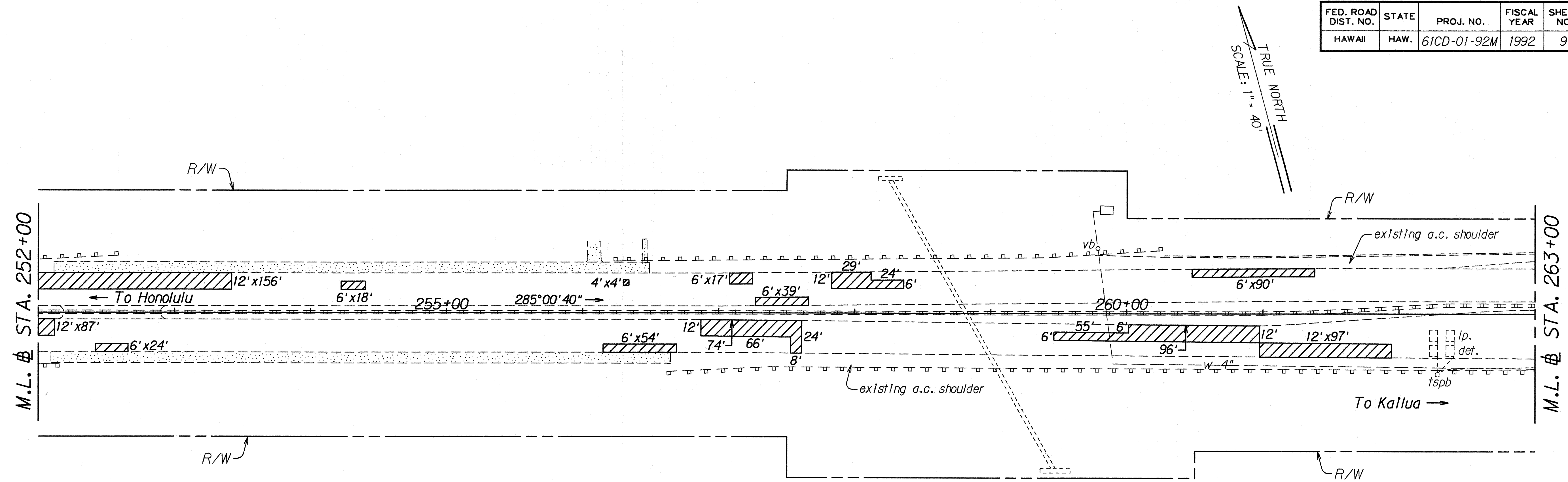
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KALANIANA'OLE HIGHWAY &
KAILUA ROAD RESURFACING
Castle Junction to Kawaiauli Bridge
Project No. 61CD-01-92M

Scale: 1" = 40'
Date: March, 1992
SHEET No. 2 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61CD-01-92M	1992	9	30



CURVE DATA
 $\Delta = 64^\circ 33' 30''$
 $R = 3500.00'$
 $T = 2210.83'$
 $C = 3738.31'$
 $L = 3943.64'$
 $S.E. = 0.04 \text{ ft/ft}$

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

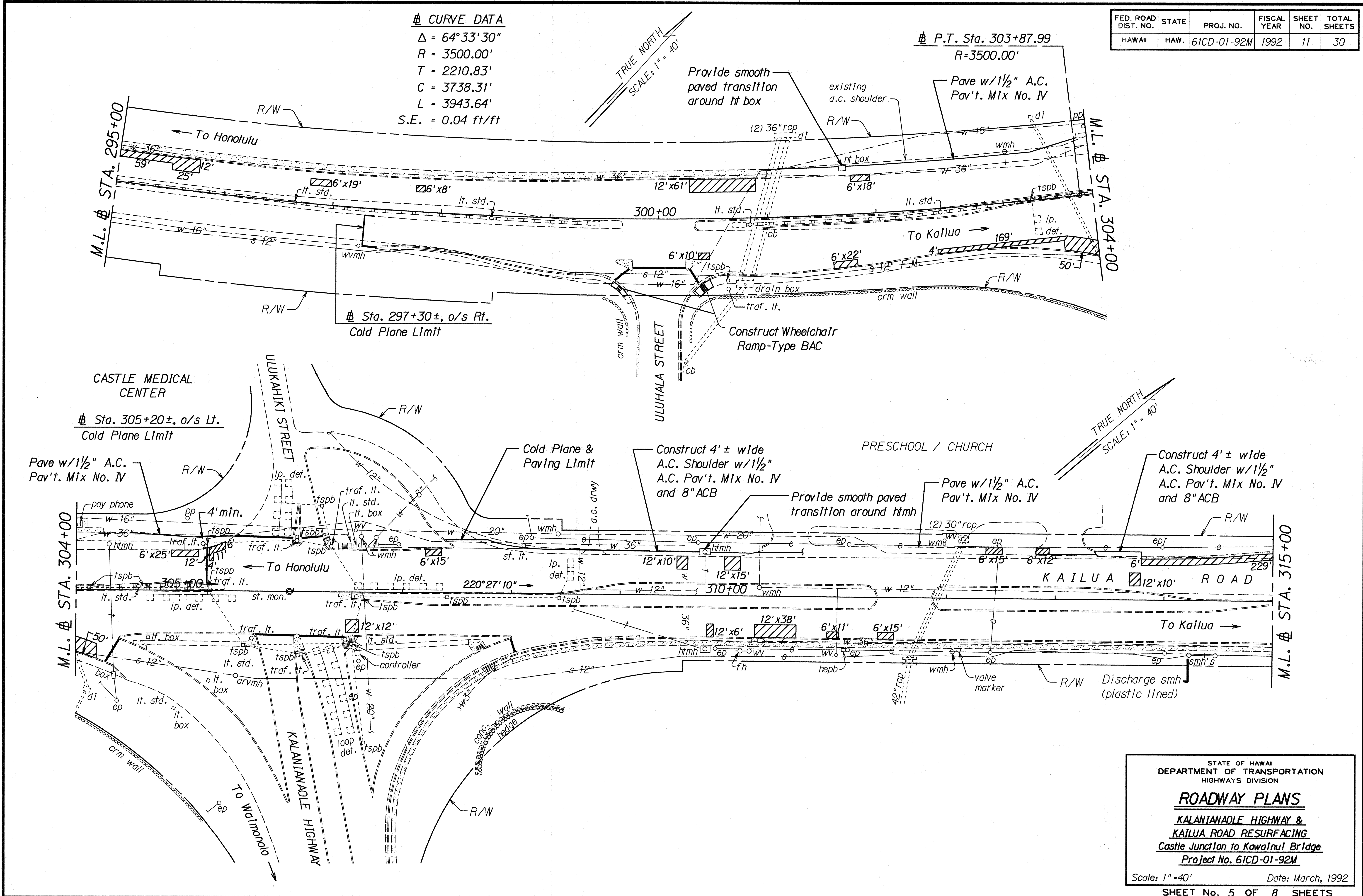
ROADWAY PLANS

KALANIANA'OLE HIGHWAY & KAILUA ROAD RESURFACING
Castle Junction to Kawa Inui Bridge
Project No. 61CD-01-92M

Scale: 1" = 40' Date: March, 1992

SHEET No. 3 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61CD-01-92M	1992	11	30



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

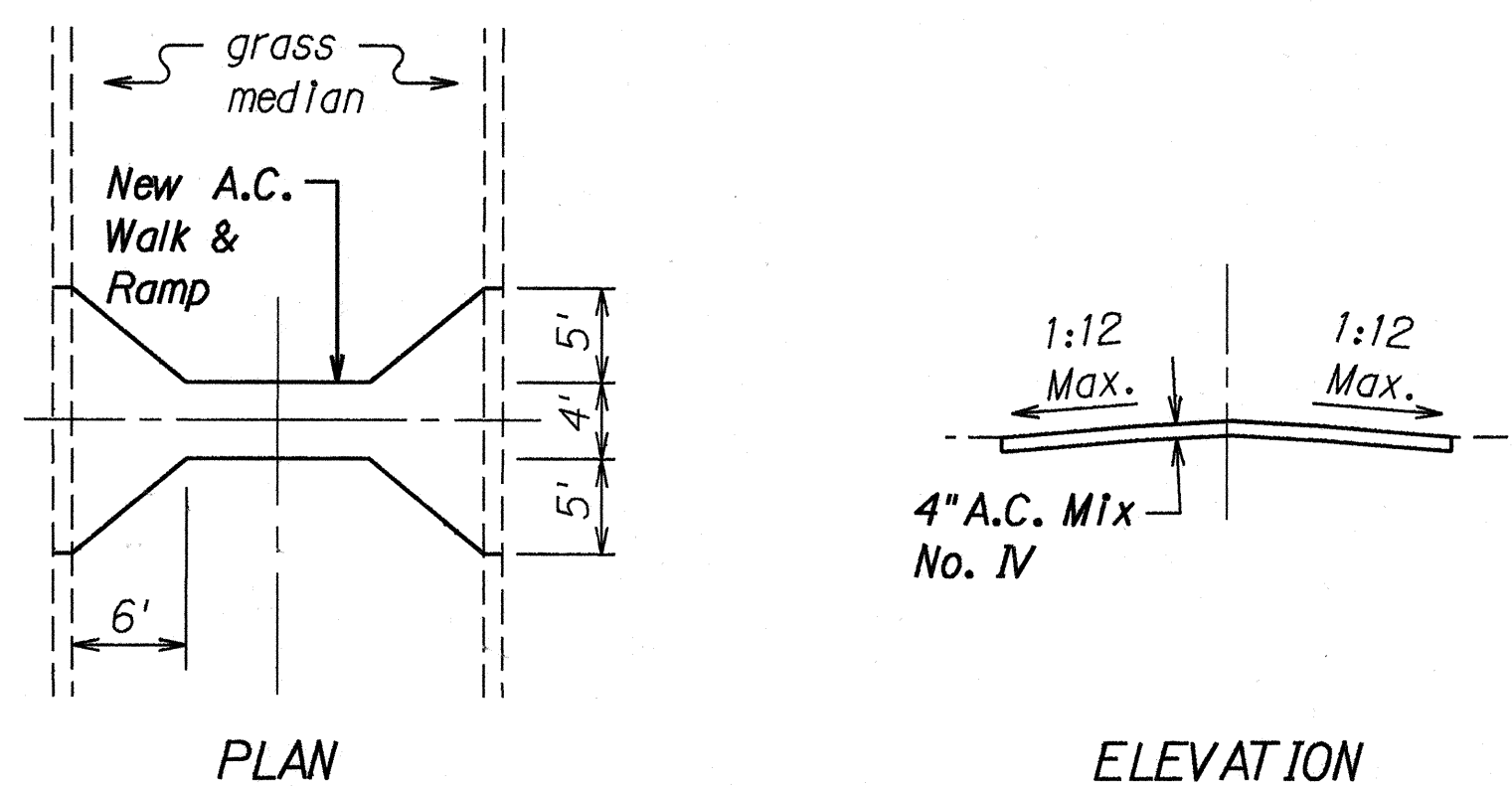
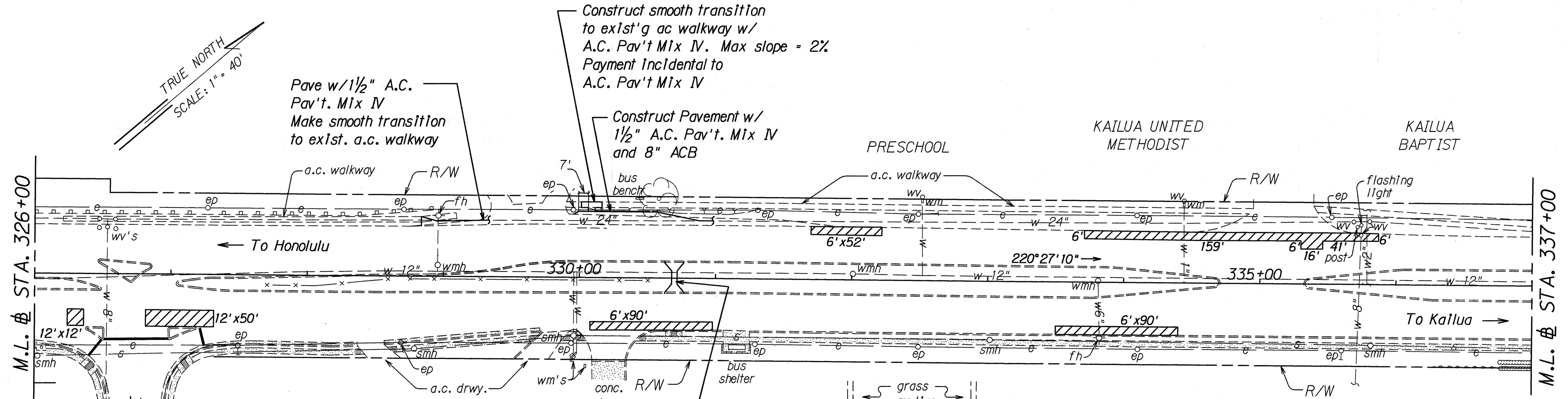
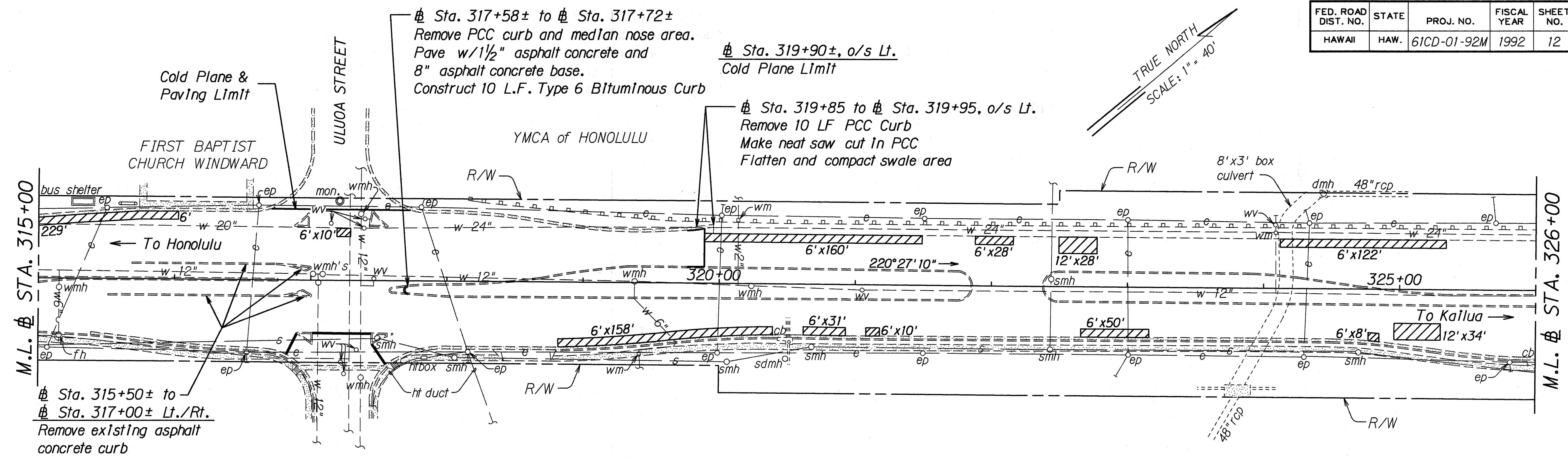
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KALANIANA'OLE HIGHWAY &
KAILUA ROAD RESURFACING
Castle Junction to Kawaiauli Bridge
Project No. 61CD-01-92M

Scale: 1" = 40'
Date: March, 1992
SHEET No. 5 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61CD-01-92M	1992	12	30

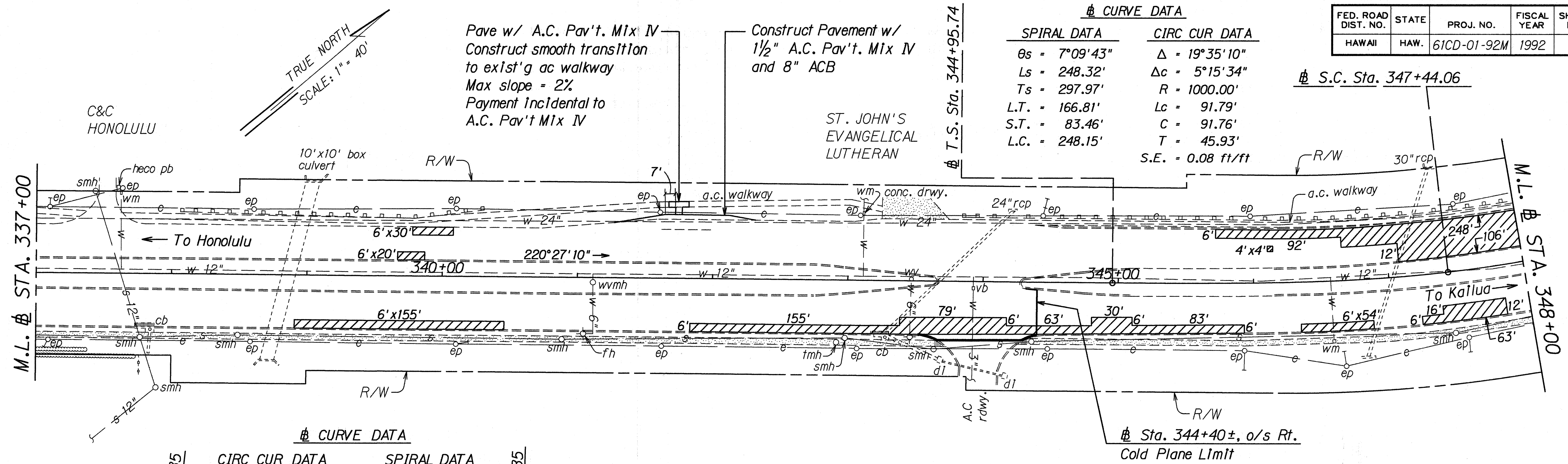


PLAN
 ELEVATION
 Wheelchair Ramp- Type AAC
 Not to Scale

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLANS
 KALANIANA'OLE HIGHWAY &
 KAILUA ROAD RESURFACING
 Castle Junction to Kawaiauli Bridge
 Project No. 61CD-01-92M
 Scale: 1" = 40' Date: March, 1992
 SHEET No. 6 OF 8 SHEETS

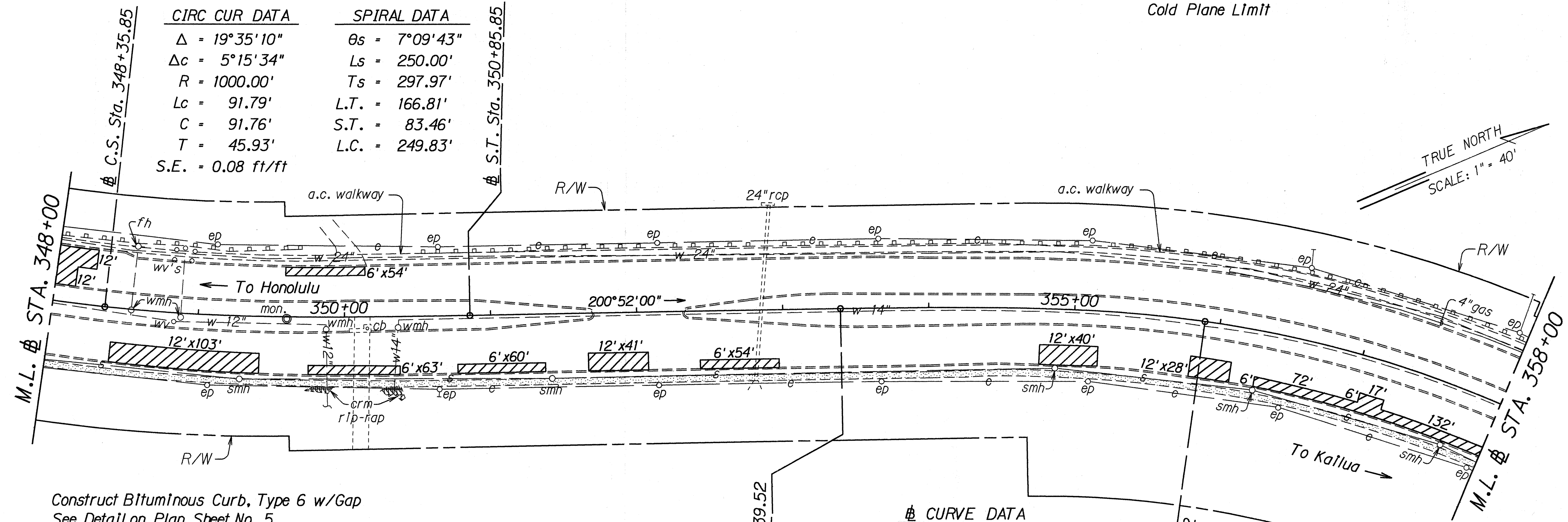
SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61CD-01-92M	1992	13	30



CURVE DATA	
SPIRAL DATA	CIRC CUR DATA
$\theta_s = 7^\circ 09' 43''$	$\Delta = 19^\circ 35' 10''$
$L_s = 248.32'$	$\Delta c = 5^\circ 15' 34''$
$T_s = 297.97'$	$R = 1000.00'$
$L.T. = 166.81'$	$L_c = 91.79'$
$S.T. = 83.46'$	$C = 91.76'$
$L.C. = 248.15'$	$T = 45.93'$
	$S.E. = 0.08 \text{ ft/ft}$

CURVE DATA	
CIRC CUR DATA	SPIRAL DATA
$\Delta = 19^\circ 35' 10''$	$\theta_s = 7^\circ 09' 43''$
$\Delta c = 5^\circ 15' 34''$	$L_s = 250.00'$
$R = 1000.00'$	$T_s = 297.97'$
$L_c = 91.79'$	$L.T. = 166.81'$
$C = 91.76'$	$S.T. = 83.46'$
$T = 45.93'$	$L.C. = 249.83'$
$S.E. = 0.08 \text{ ft/ft}$	



CURVE DATA	
SPIRAL DATA	CIRC CUR DATA
$\theta_s = 8^\circ 57' 09''$	$\Delta = 36^\circ 08' 00''$
$L_s = 250.00'$	$\Delta c = 18^\circ 13' 42''$
$T_s = 386.92'$	$R = 800.00'$
$L.T. = 166.88'$	$L_c = 254.52'$
$S.T. = 83.53'$	$C = 253.44'$
$L.C. = 249.73'$	$T = 128.34'$
	$S.E. = 0.10 \text{ ft/ft}$

Construct Bituminous Curb, Type 6 w/Gap
See Detail on Plan Sheet No. 5.

Right Side

- Sta. 344+40± to Sta. 350+00±, o/s 38' Rt.*
- Sta. 350+00± to Sta. 361+10±, o/s 38' Rt.*

Left Side

- Sta. 343+85± to Sta. 348+45±, o/s 40' Lt.
- Sta. 348+50± to Sta. 349+70±, o/s 35' Lt.
- Sta. 350+50± to Sta. 352+40±, o/s 35' Lt.
- Sta. 352+40± to Sta. 360+00±, o/s 35' Lt.*

* Replacement as Necessary

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

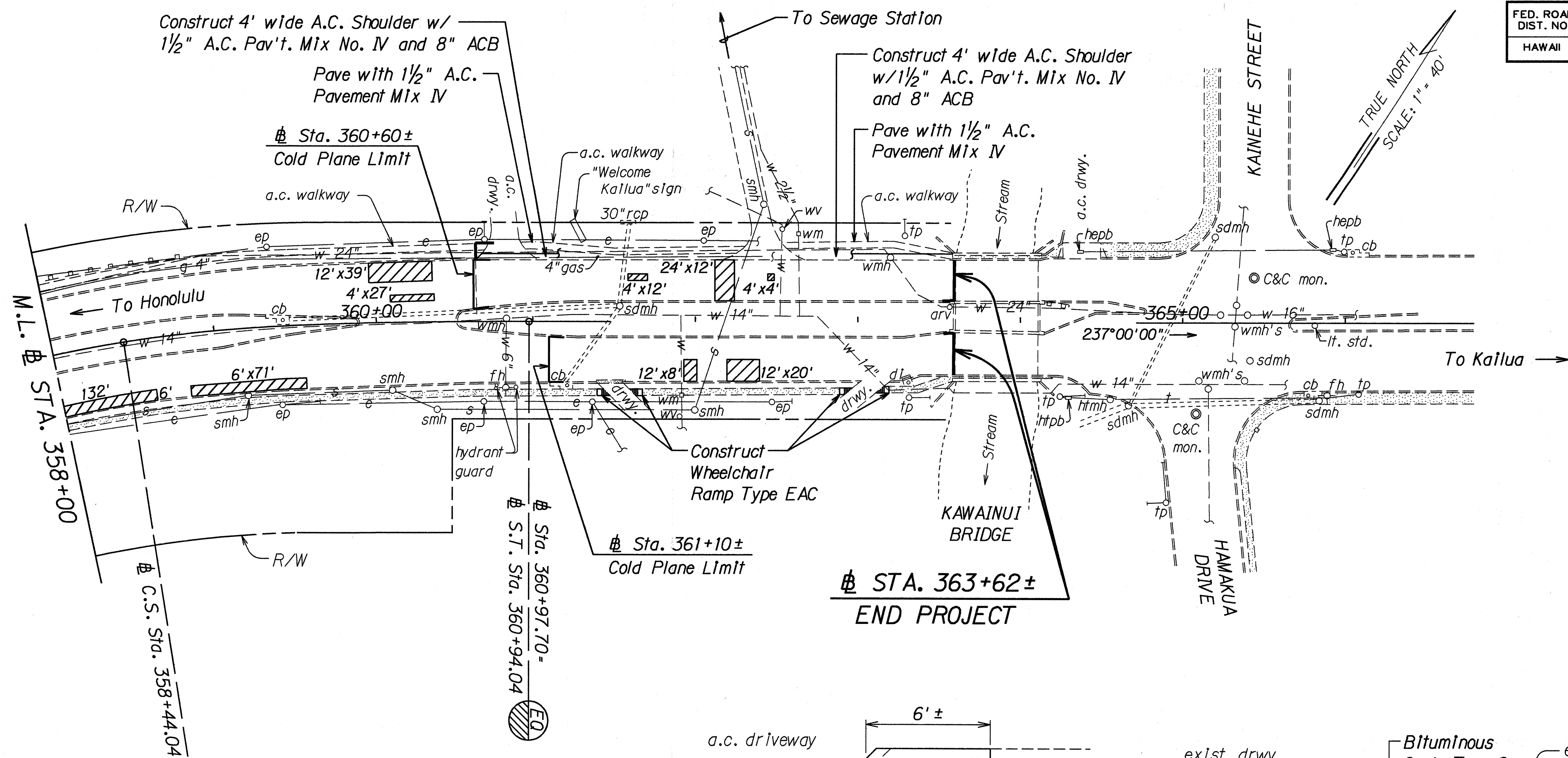
ROADWAY PLANS

KALANIANA'OLE HIGHWAY &
KAILUA ROAD RESURFACING
Castle Junction to Kawaiauli Bridge
Project No. 61CD-01-92M

Scale: 1" = 40' Date: March, 1992
SHEET No. 7 OF 8 SHEETS

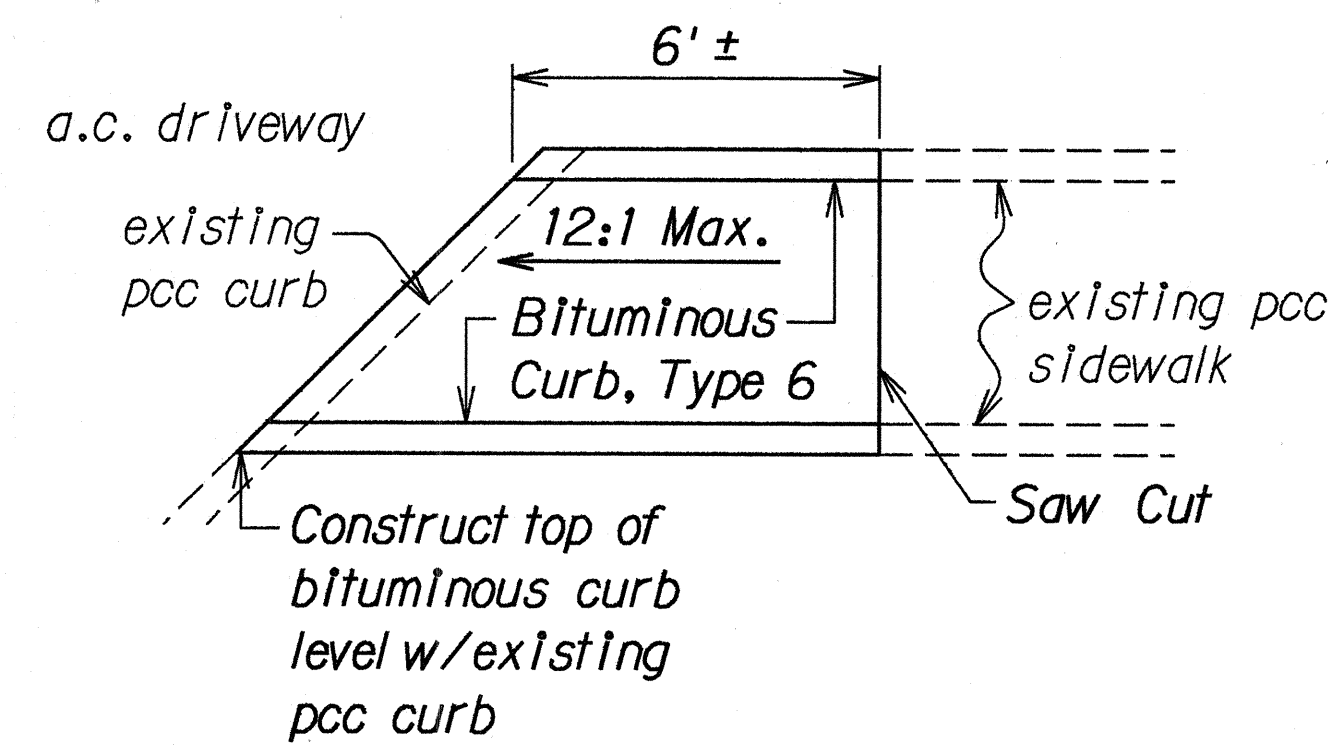
SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
NOTE BOOK	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61CD-01-92M	1992	14	30

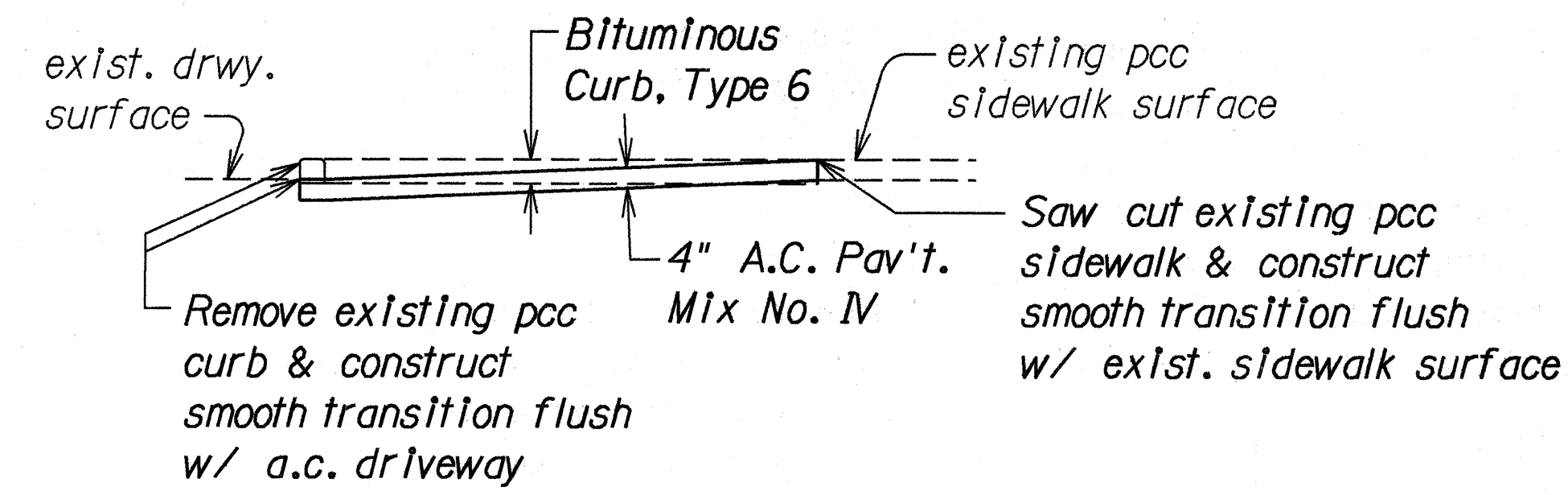


CURVE DATA

CIRC CUR DATA	SPIRAL DATA
$\Delta = 36^{\circ}08'00''$	$\theta_s = 8^{\circ}57'09''$
$\Delta c = 18^{\circ}13'42''$	$L_s = 250.00'$
$R = 800.00'$	$T_s = 386.92'$
$L_c = 254.52'$	$L.T. = 166.88'$
$C = 253.44'$	$S.T. = 83.53'$
$T = 128.34'$	$L.C. = 249.73'$
$S.E. = 0.10 \text{ ft/ft}$	



PLAN



ELEVATION

WHEELCHAIR RAMP- TYPE EAC
Not to Scale

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
KALANIANA'OLE HIGHWAY & KAILUA ROAD RESURFACING
Castle Junction to Kawaiunui Bridge
Project No. 61CD-01-92M

Scale: 1" = 40'
Date: March, 1992
SHEET No. 8 OF 8 SHEETS