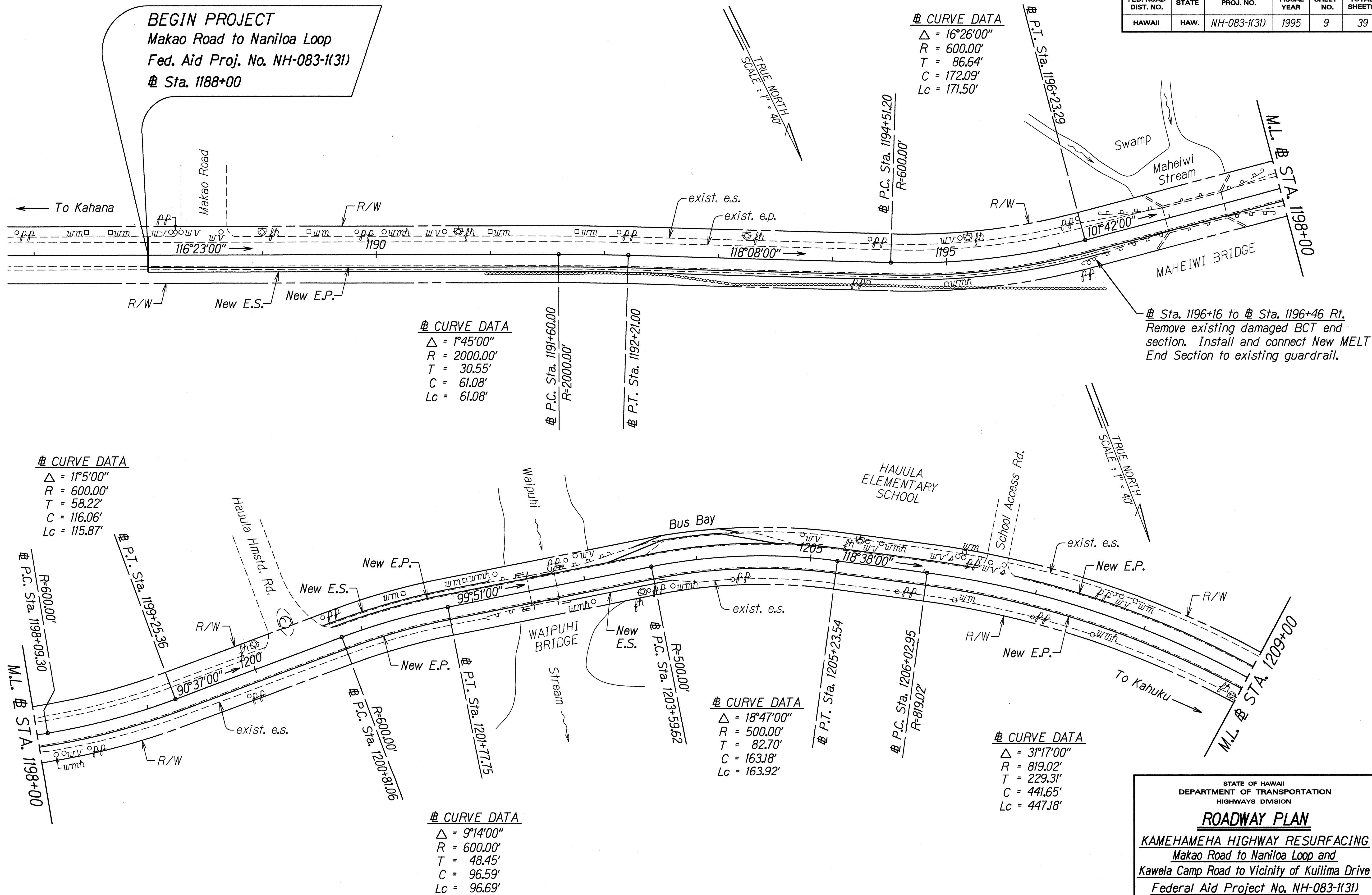


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	9	39



DATE	12-23-95
SURVEY PLOTTED BY	J. Malsam
DRAWN BY	J. Malsam
DESIGNED BY	C. Otero
CHECKED BY	ad4/jason
ORIGINAL PLAN	ad4/jason
NOTE BOOK	ad4/jason
CHECKED BY	ad4/jason
ORIGINAL PLAN	ad4/jason

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

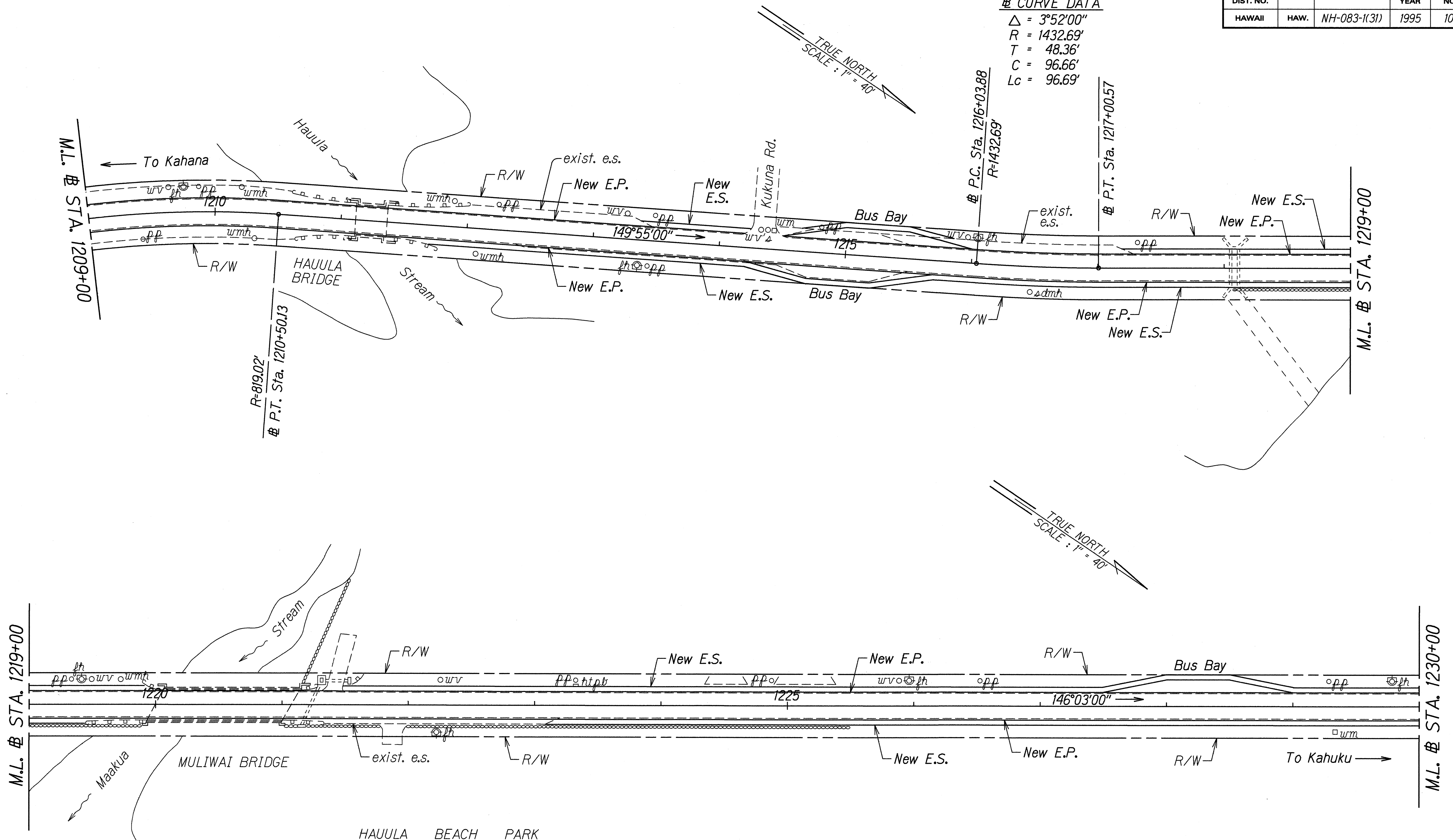
ROADWAY PLAN
KAMEHAMEHA HIGHWAY RESURFACING
Makao Road to Naniloa Loop and
Kawela Camp Road to Vicinity of Kuilima Drive
Federal Aid Project No. NH-083-1(31)
Scale: 1"=40' Date: July, 1994

SHEET No. 1 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	10	39

§ CURVE DATA

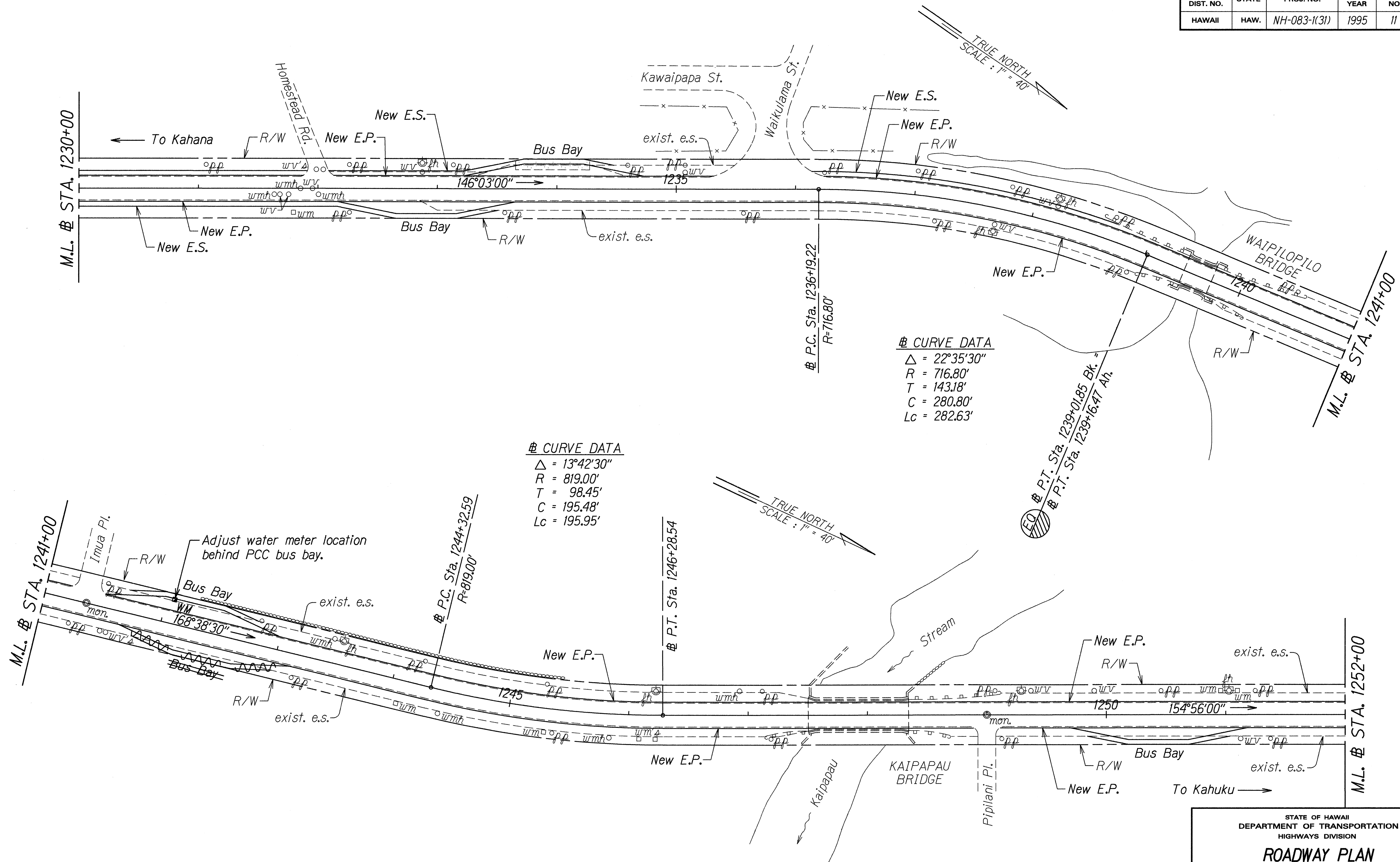
$\Delta = 3^\circ 52' 00''$
 $R = 1432.69'$
 $T = 48.36'$
 $C = 96.66'$
 $Lc = 96.69'$



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY J. Matsunaga	12/2/94
DESIGNED BY C. Otero		
CHECKED BY N. Kanda		

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLAN
 KAMEHAMEHA HIGHWAY RESURFACING
 Makao Road to Naniloa Loop and
 Kawela Camp Road to Vicinity of Kuilima Drive
 Federal Aid Project No. NH-083-1(31)
 Scale: 1"=40' Date: July, 1994
 SHEET No. 2 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	11	39



ORIGINAL PLAN	DATE
TRACED BY J. Matsubami	11/27/95
NOTED BY C. Ojano	
QUANTITIES BY	
CHECKED BY	
dd4/ason	
SA Kemop3	

LEGEND FOR AS-BUILT POSTINGS

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

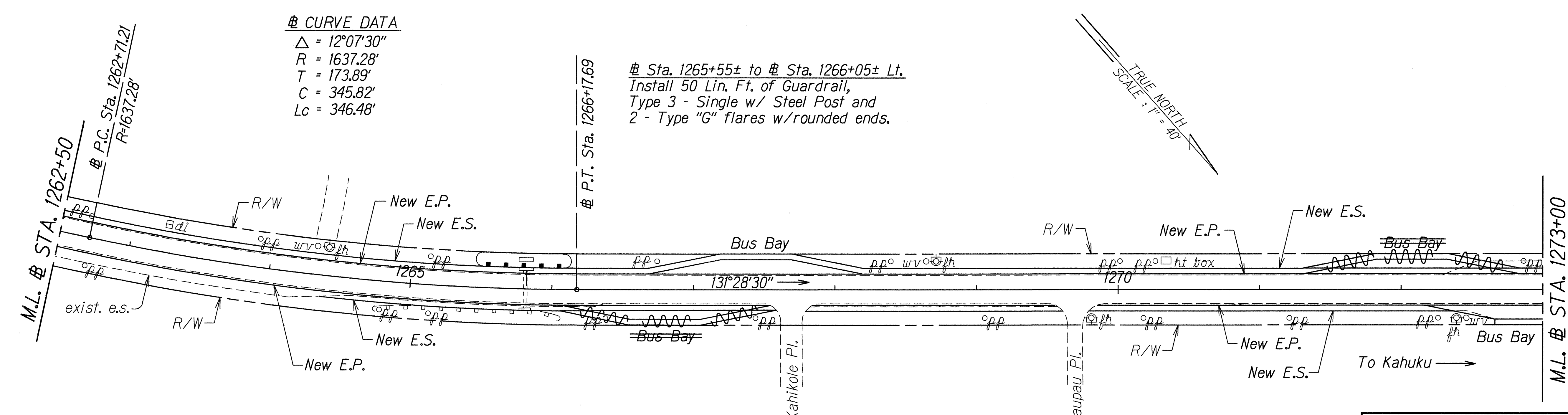
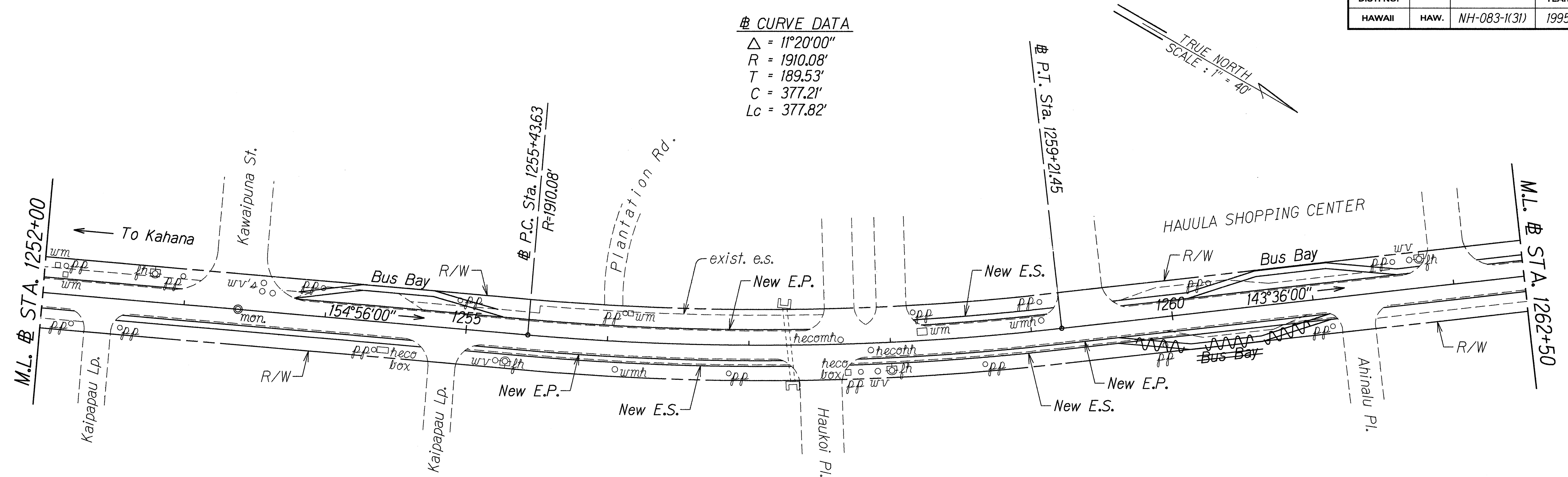
ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Makao Road to Naniloa Loop and
Kawela Camp Road to Vicinity of Kuilima Drive
Federal Aid Project No. NH-083-1(31)

Scale: 1"=40' Date: July, 1994

SHEET No. 3 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	12	39



SURVEY PLOTTED BY	DATE
DRAWN BY	12.6.95
TRACED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	
CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

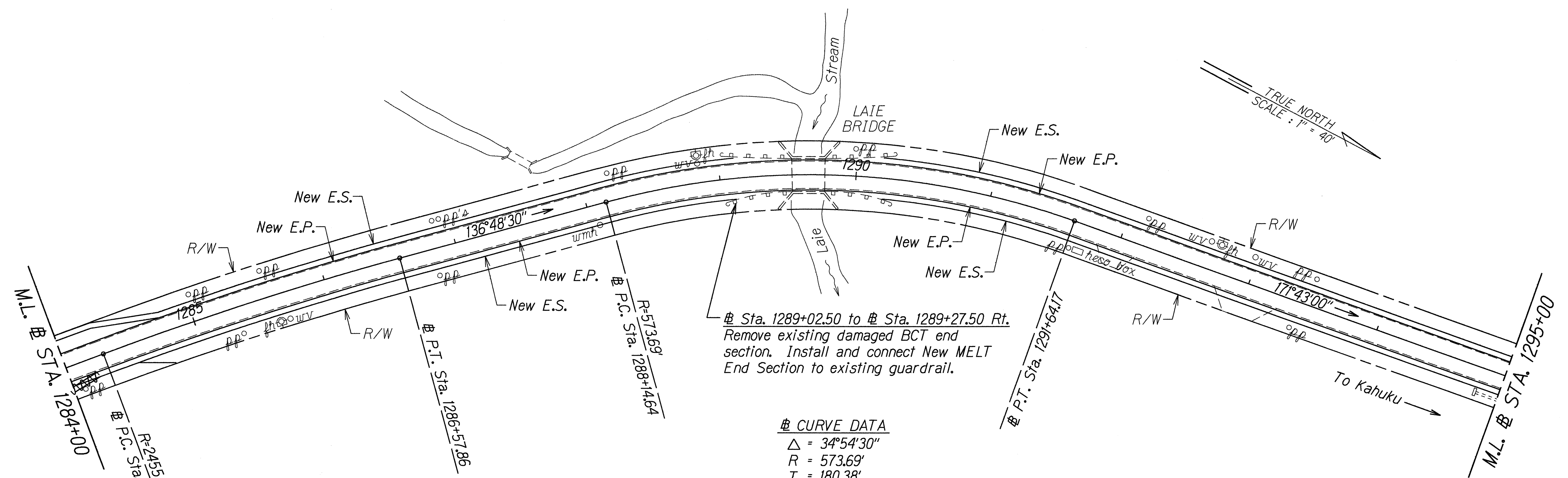
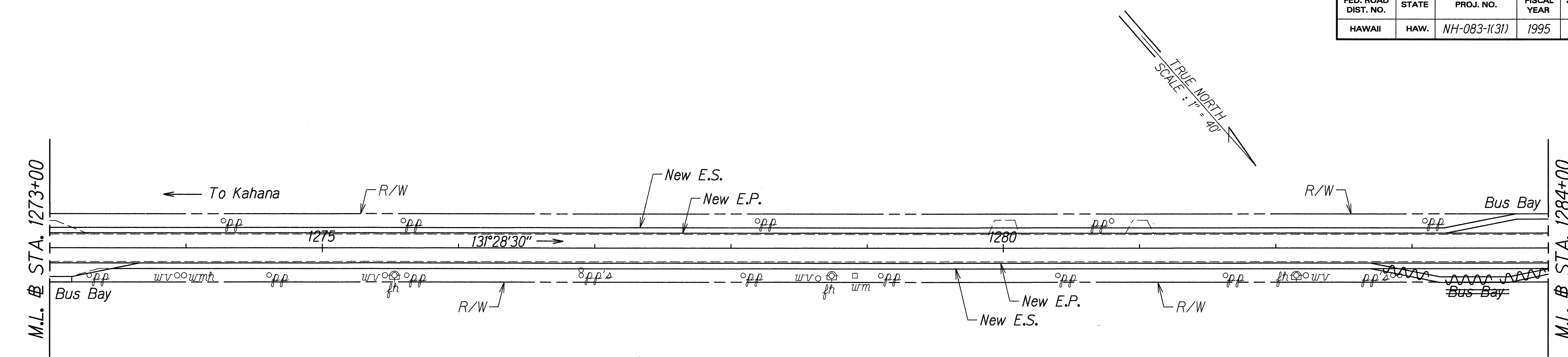
ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Makao Road to Naniloa Loop and
Kawela Camp Road to Vicinity of Kuilima Drive
Federal Aid Project No. NH-083-1(31)

Scale: 1"=40'
Date: July, 1994

SHEET No. 4 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	13	39



CURVE DATA
 $\Delta = 5^{\circ}20'00''$
 $R = 2455.70'$
 $T = 114.38'$
 $C = 228.50'$
 $Lc = 228.58'$

CURVE DATA
 $\Delta = 34^{\circ}54'30''$
 $R = 573.69'$
 $T = 180.38'$
 $C = 344.15'$
 $Lc = 349.53'$

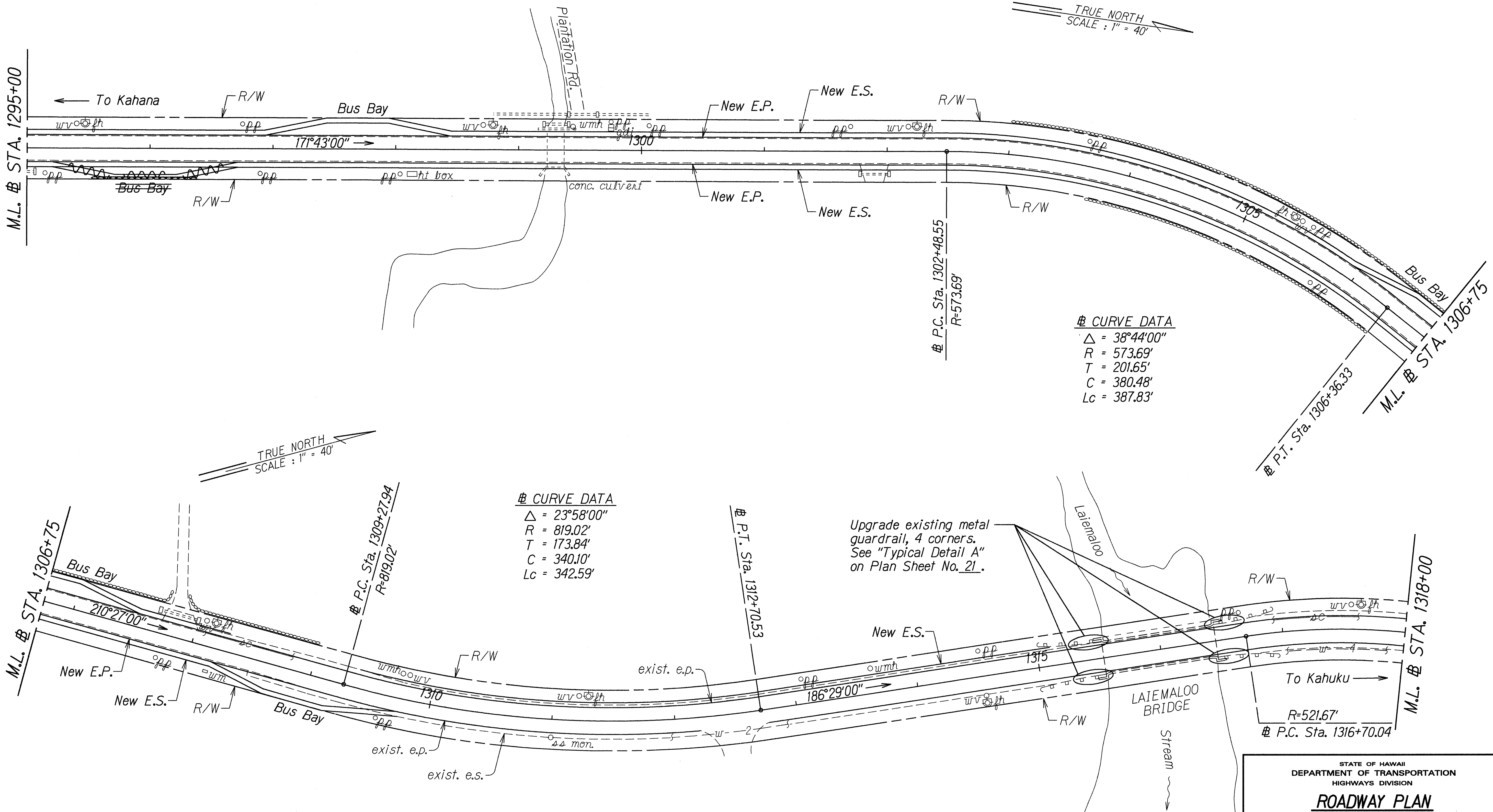
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAMEHAMEHA HIGHWAY RESURFACING
Makao Road to Naniloa Loop and
Kawela Camp Road to Vicinity of Kuilima Drive
Federal Aid Project No. NH-083-1(31)
Scale: 1"=40' Date: July, 1994
SHEET No. 5 OF 12 SHEETS

ORIGINAL PLAN	DATE
NOTED BY	11-08-95
DESIGNED BY	
CHECKED BY	
DATE	
NOTED BY	
DESIGNED BY	
CHECKED BY	
DATE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	14	39



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY J. Malsiani	7-14-95
	TRACED BY C. Otero	
	NOTED BY	
NOTE BOOK	QUANTITIES BY	
	004/jason	
No. Remarks	CHECKED BY	
	N. Kemps	

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

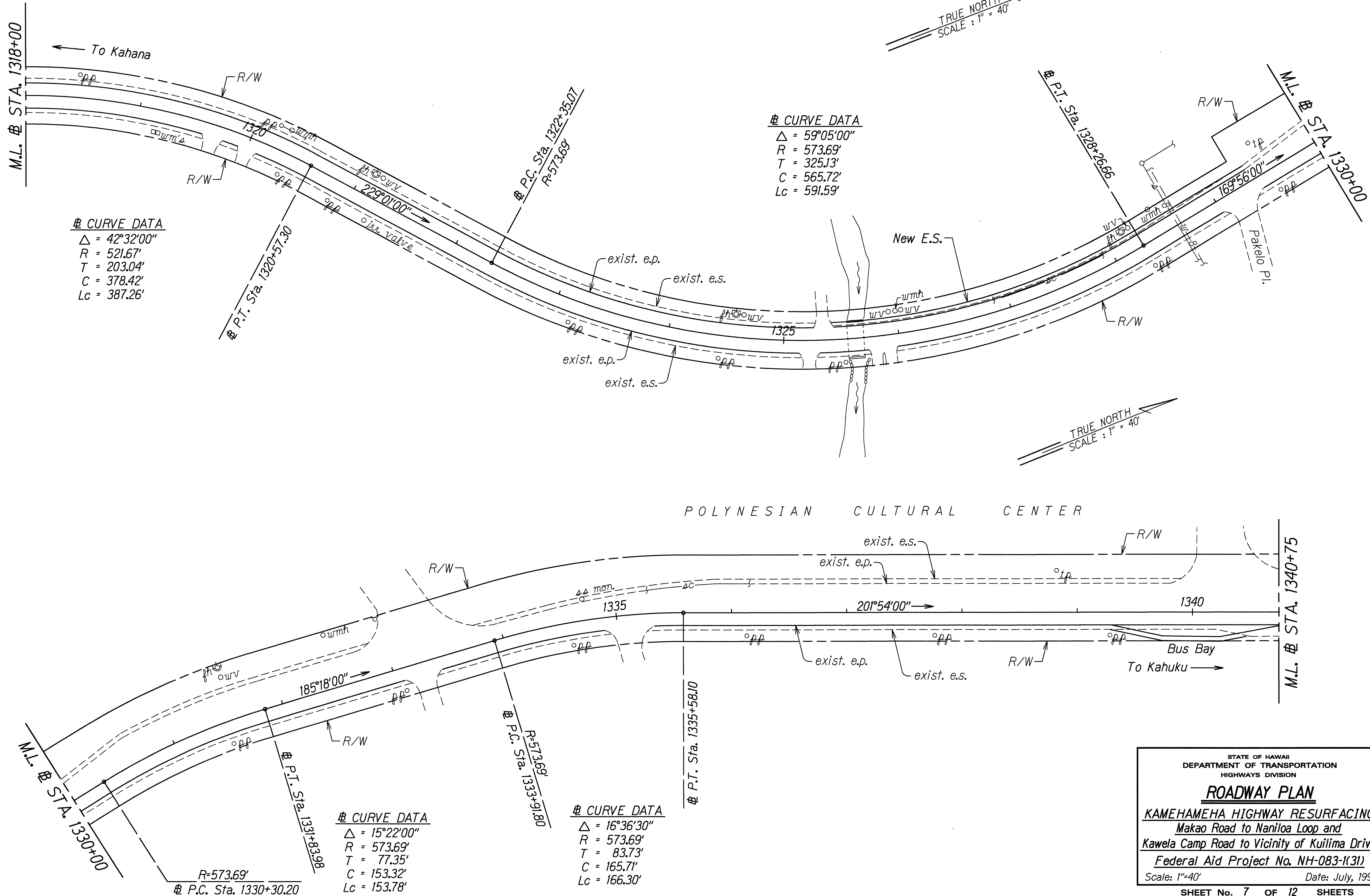
ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Makao Road to Naniloa Loop and
Kawela Camp Road to Vicinity of Kuilima Drive
Federal Aid Project No. NH-083-1(31)

Scale: 1"=40' Date: July, 1994

SHEET No. 6 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	15	39



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	12-23-95
DRAWN BY	J. Matsunaga
NOTED BY	C. O'Leary
CHECKED BY	N. Kameh

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

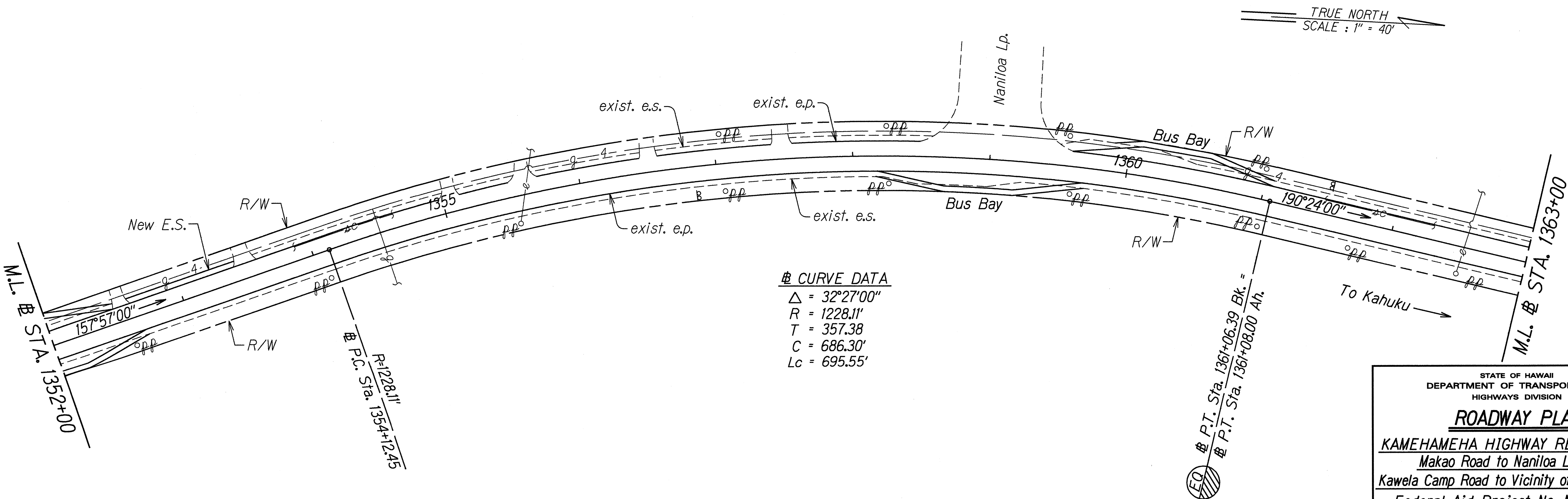
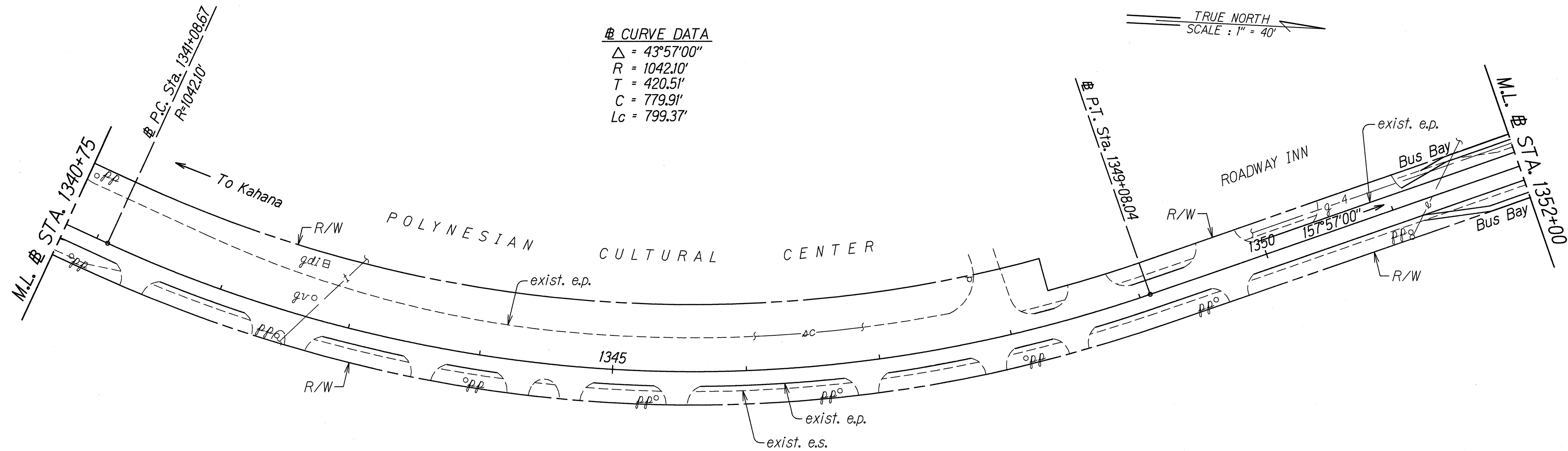
ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Makao Road to Naniloa Loop and
Kawela Camp Road to Vicinity of Kuilima Drive
Federal Aid Project No. NH-083-1(31)

Scale: 1"=40' Date: July, 1994

SHEET No. 7 OF 12 SHEETS

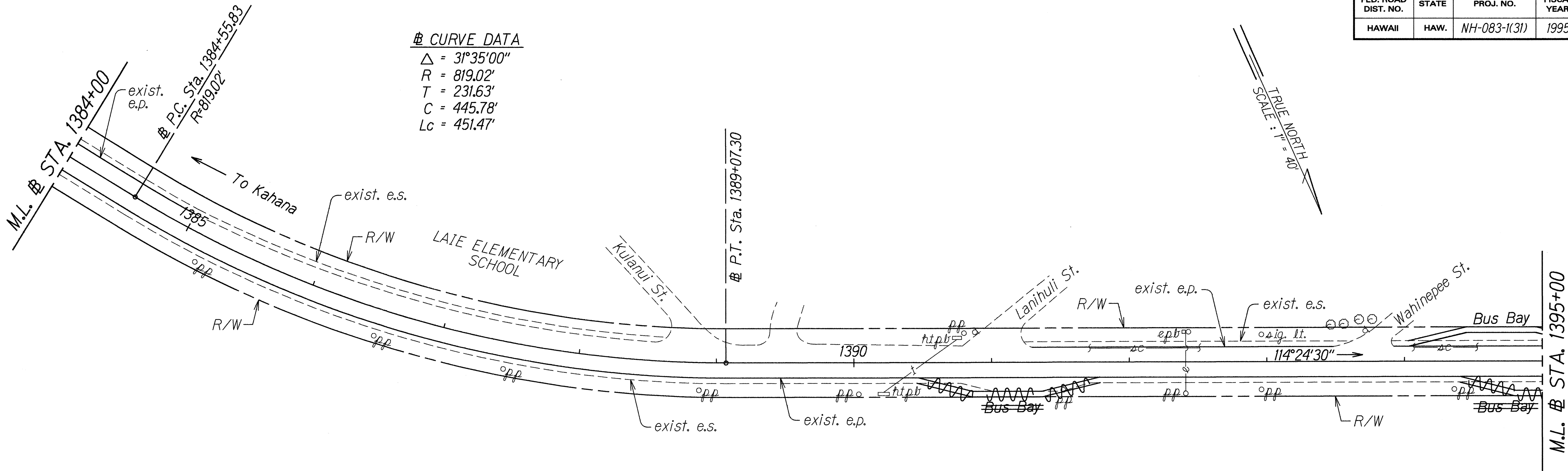
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	16	39



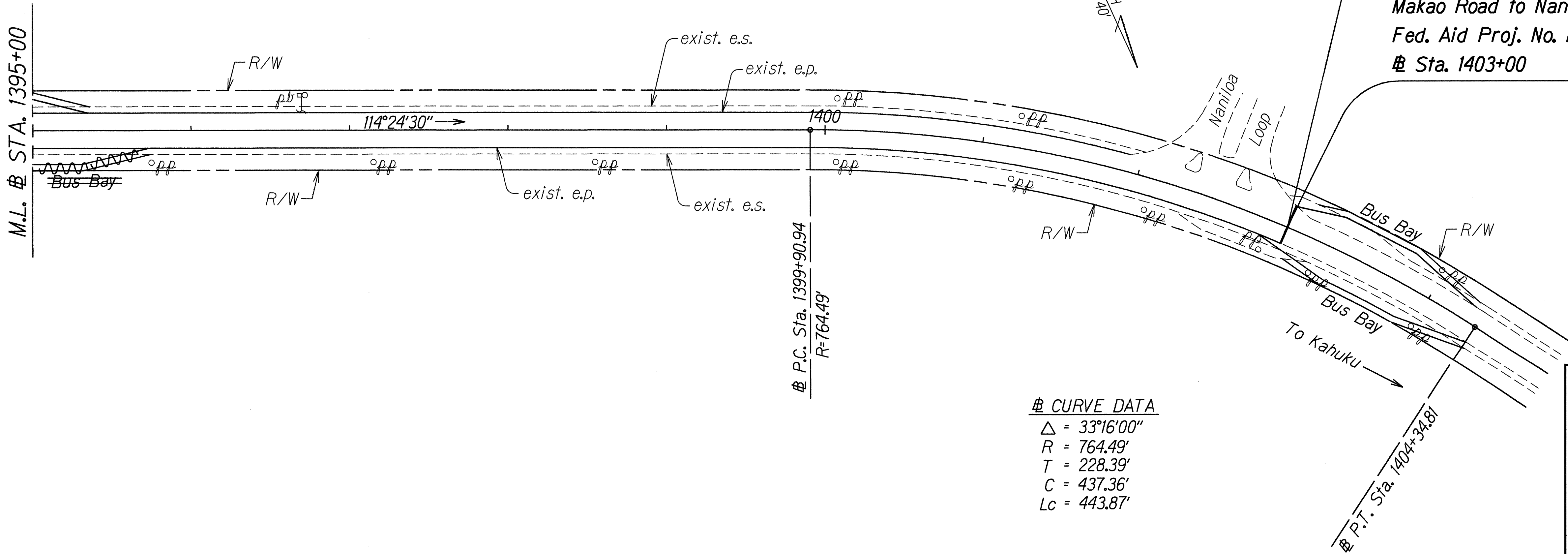
DATE	11-25-95
SURVEY PLOTTED BY	J. Matsunami
DRAWN BY	J. Matsunami
DESIGNED BY	C. Otero
QUANTITIES BY	C. Otero
CHECKED BY	N. Hamada

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
KAMEHAMEHA HIGHWAY RESURFACING
Makao Road to Nanihoa Loop and
Kawela Camp Road to Vicinity of Kuilima Drive
Federal Aid Project No. NH-083-1(31)
Scale: 1"=40' Date: July, 1994
SHEET No. 8 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	18	39



CURVE DATA
 $\Delta = 31^{\circ}35'00''$
 $R = 819.02'$
 $T = 231.63'$
 $C = 445.78'$
 $L_c = 451.47'$



CURVE DATA
 $\Delta = 33^{\circ}16'00''$
 $R = 764.49'$
 $T = 228.39'$
 $C = 437.36'$
 $L_c = 443.87'$

END PROJECT
Makao Road to Naniloa Loop
Fed. Aid Proj. No. NH-083-1(31)
Sta. 1403+00

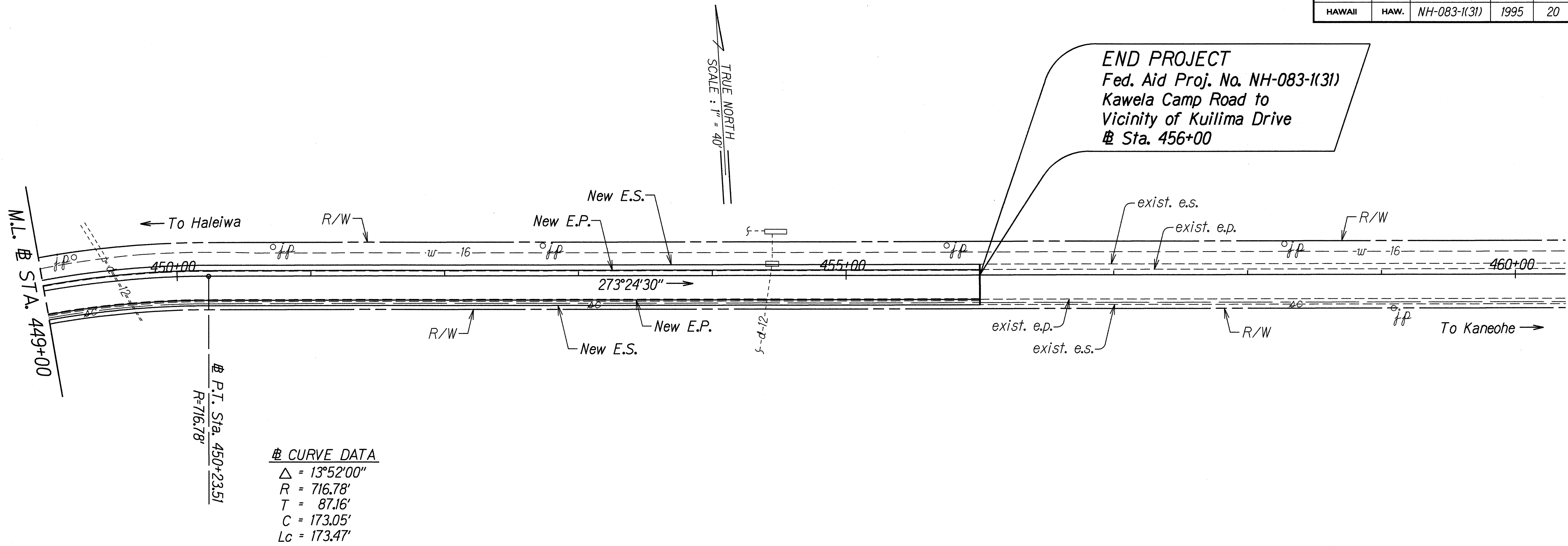
ORIGINAL PLAN	DATE
NOTES BOOK	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KAMEHAMEHA HIGHWAY RESURFACING
Makao Road to Naniloa Loop and
Kawela Camp Road to Vicinity of Kuilima Drive
Federal Aid Project No. NH-083-1(31)
Scale: 1"=40'
Date: July, 1994

SHEET No. 10 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(31)	1995	20	39



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY J. M. Sullivan	10-12-94
ddA, Jason	DESIGNED BY C. Olson	
N. Hanford	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

KAMEHAMEHA HIGHWAY RESURFACING
Makao Road to Naniloa Loop and
Kawela Camp Road to Vicinity of Kuilima Drive
Federal Aid Project No. NH-083-1(31)

Scale: 1"=40' Date: July, 1994

SHEET No. 12 OF 12 SHEETS