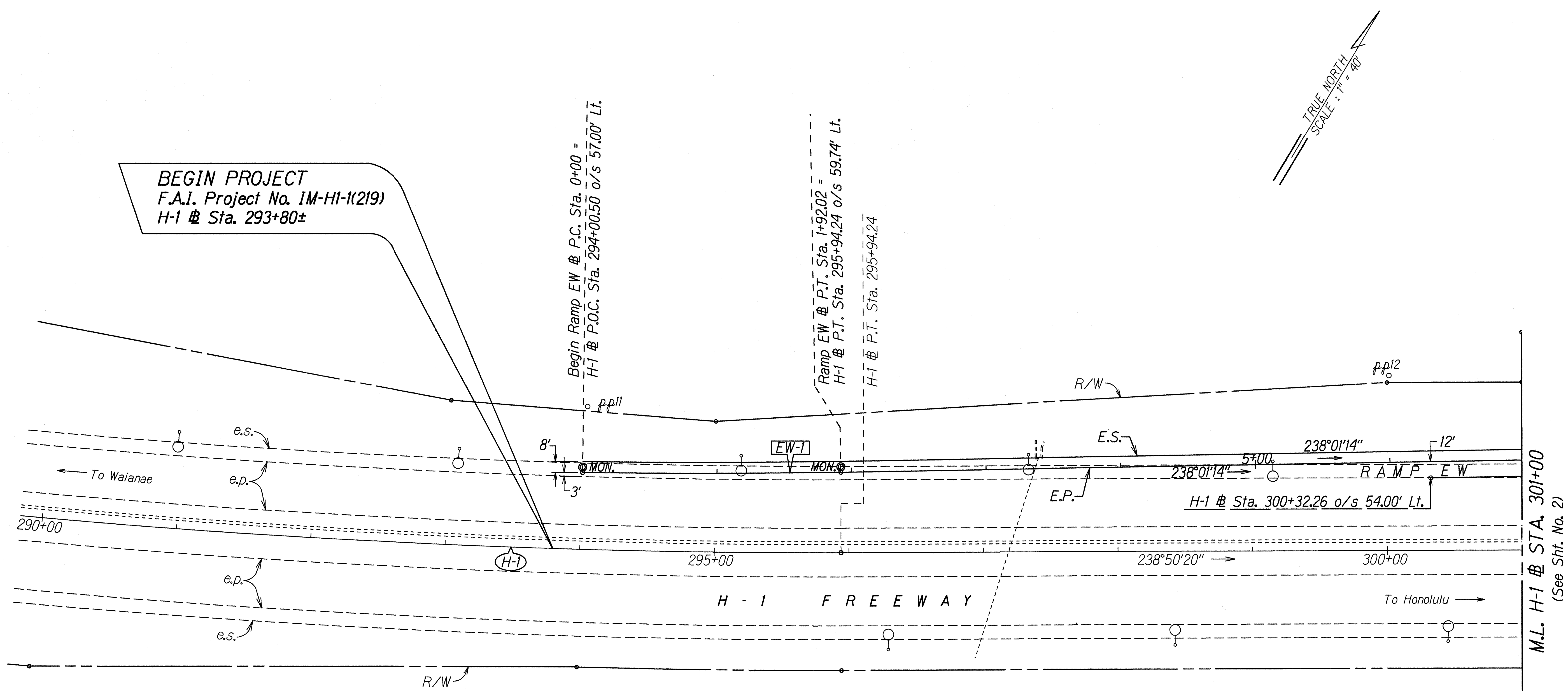


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	30	378



TRUE NORTH
SCALE: 1" = 40'

BEGIN PROJECT
F.A.I. Project No. IM-HI-1(219)
H-1 @ Sta. 293+80±

Begin Ramp EW @ P.C. Sta. 0+00 =
H-1 @ P.O.C. Sta. 294+00.50 o/s 57.00' Lt.

Ramp EW @ P.T. Sta. 1+92.02 =
H-1 @ P.T. Sta. 295+94.24 o/s 59.74' Lt.

H-1 @ P.T. Sta. 295+94.24

CURVE DATA		
	(H-1)	EW-1
Δ	8°23'30"	1°42'23.70"
R	6,500.00'	6,446.77'
T	476.85'	96.02'
C	951.15'	192.01'
Lc	952.00'	192.02'

GENERAL NOTE
Origin of Azimuths : Kapuai New Δ .
Coordinates referred to Kapuai New Δ .
Kapuai New Azimuth =
Hawaiian Plane Azimuth (- 0°01'40").

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

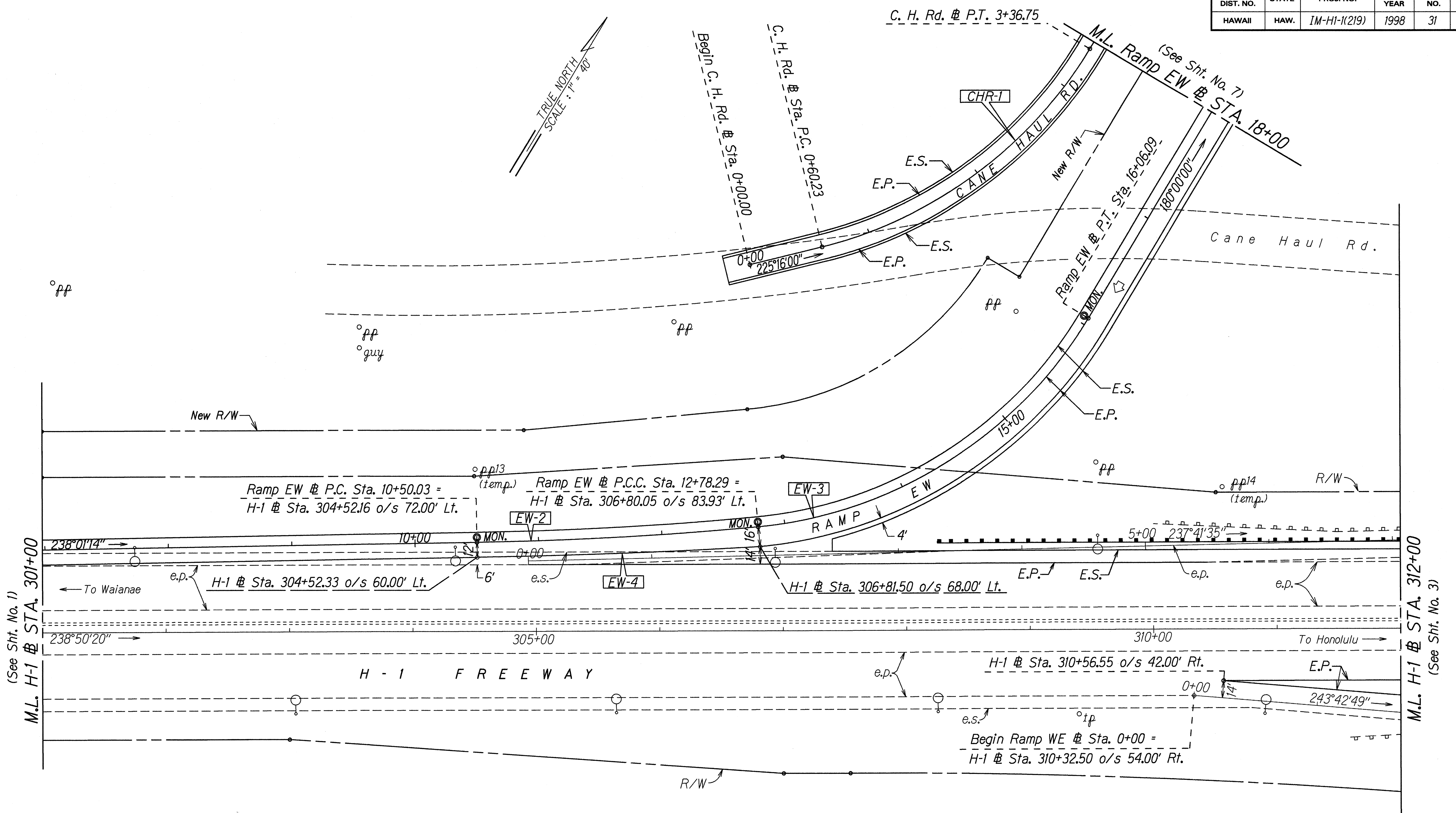
ALIGNMENT PLAN
INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. IM-HI-1(219)

Scale: 1"=40'
Date: Oct. 1997

SHEET No. 1 OF 11 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY M. Hendrix, M. P. Wang	9-30-97
DESIGNED BY M. Quigley		
QUANTITIES BY		
CHECKED BY		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	31	378



CURVE DATA				
	EW-2	EW-3	EW-4	CHR-1
Δ	4°21'34"	53°39'39.75"	2°21'43"	45°16'00"
R	3,000.00'	350.00'	5,562.92'	350.00'
T	114.19'	177.03'	114.68'	145.93'
C	228.21'	315.95'	229.31'	269.38'
Lc	228.26'	327.80'	229.32'	276.52'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

INTERSTATE ROUTE H-1

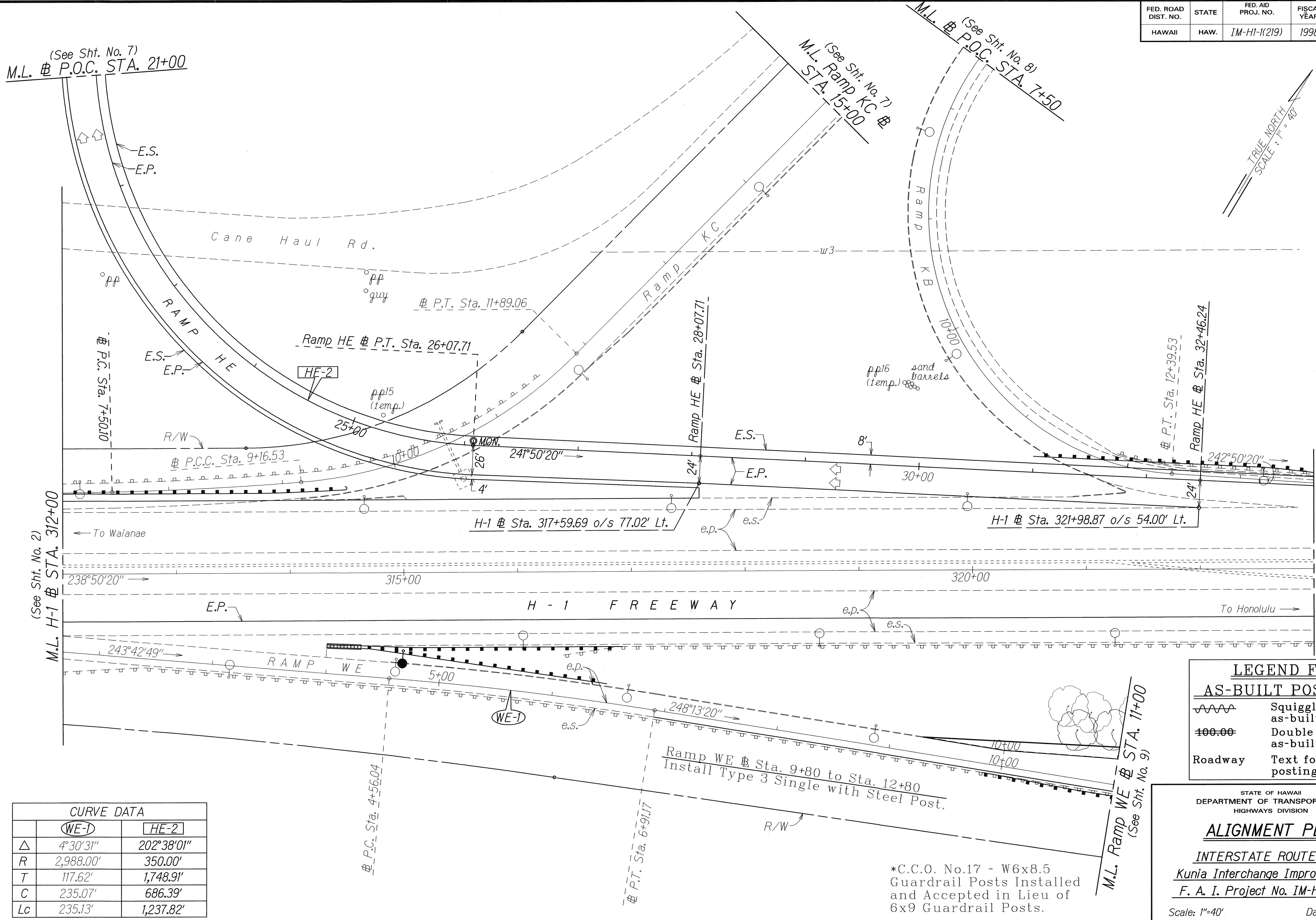
Kunia Interchange Improvements

F. A. I. Project No. IM-HI-1(219)

Scale: 1"=40'
Date: Oct. 1997

SURVEY PLOTTED BY: DATE: 9/30/97
 DRAWN BY: M. Howells, P. Wong
 CHECKED BY: M. Quodaa
 NOTE BOOK: ddmm
 QUANTITIES BY: N. dhariz2
 CHECKED BY:

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-K(219)	1998	32	378



CURVE DATA		
	WE-1	HE-2
Δ	4°30'31"	202°38'01"
R	2,988.00'	350.00'
T	117.62'	1,748.91'
C	235.07'	686.39'
Lc	235.13'	1,237.82'

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

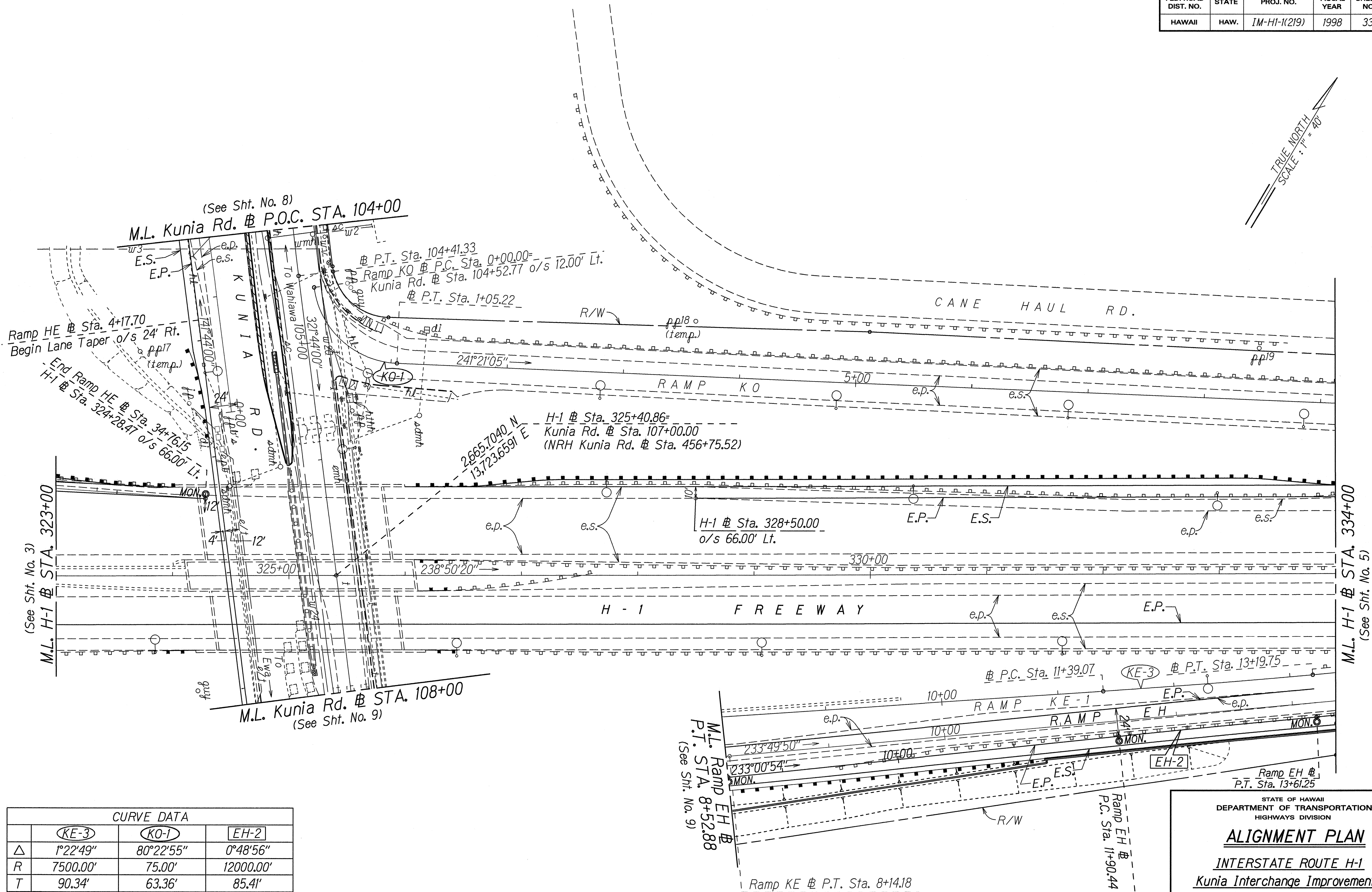
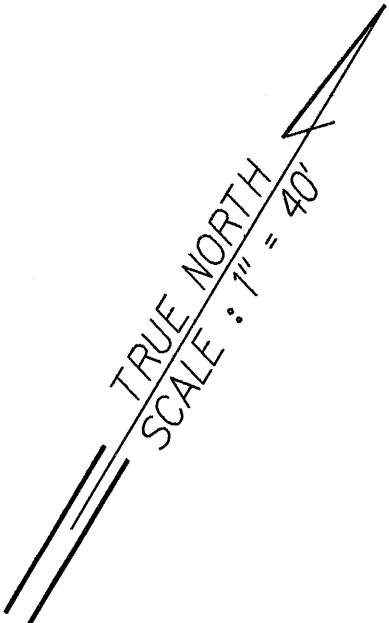
ALIGNMENT PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. IM-H1-K(219)

Scale: 1"=40' Date: Oct. 1997

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	TRACED BY	
NOTE BOOK	DESIGNED BY	
QUANTITIES BY	CHECKED BY	
N. 0110203		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	33	378



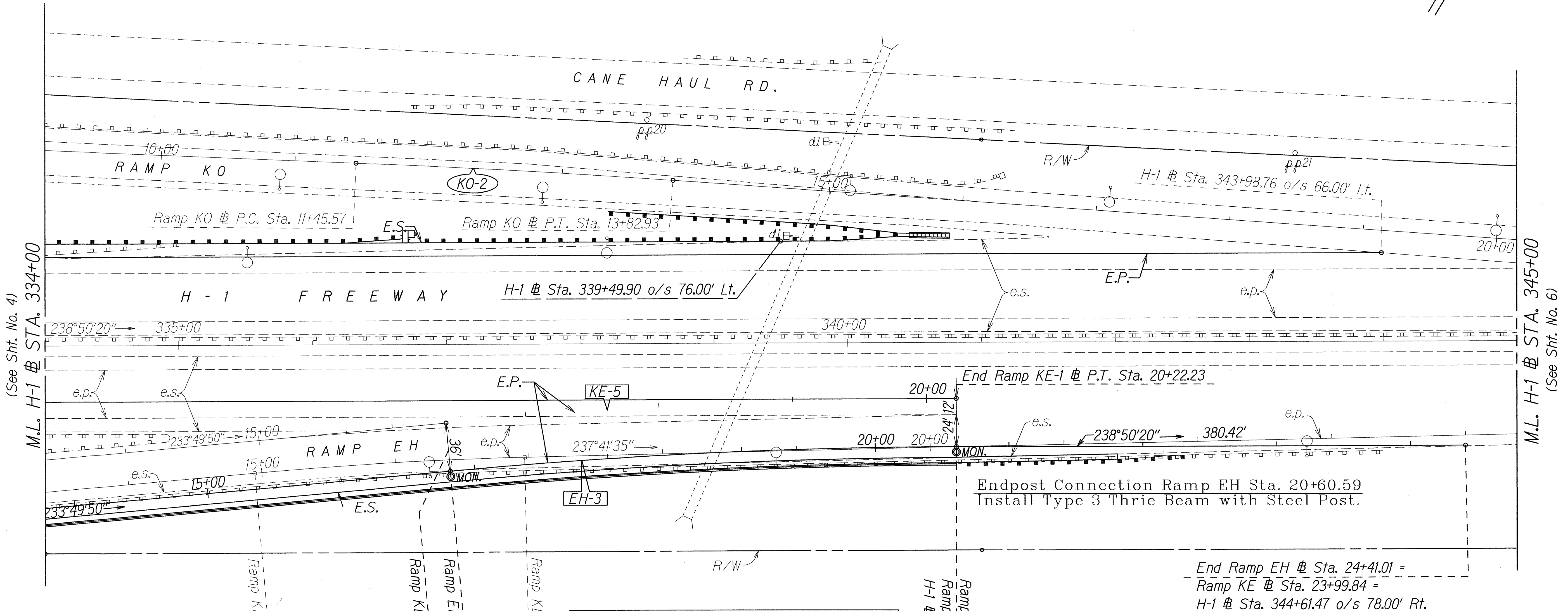
CURVE DATA			
	KE-3	KO-1	EH-2
Δ	1°22'49"	80°22'55"	0°48'56"
R	7500.00'	75.00'	12000.00'
T	90.34'	63.36'	85.41'
C	180.67'	96.80'	170.81'
Lc	180.68'	105.22'	170.81'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ALIGNMENT PLAN
INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. IM-HI-1(219)
Scale: 1"=40' Date: Oct. 1997
SHEET No. 4 OF 11 SHEETS

DATE	11-25-97
DESIGNED BY	M. Oshida
CHECKED BY	N. Jindou
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-K(219)	1998	34	378

TRUE NORTH
SCALE: 1" = 40'



*C.C.O. No.17 - W6x8.5 Guardrail Posts Installed and Accepted in Lieu of 6x9 Guardrail Posts.

CURVE DATA				
	EH-3	KE-5	KO-2	
Δ	5°00'30"	5°00'30"	1°42'00"	
R	4332.32'	4368.32'	8000.00'	
T	189.47'	191.04'	118.69'	
C	378.58'	381.72'	237.36'	
Lc	378.70'	381.84'	237.36'	

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting

DATE	REVISION
4-02-99	Extended Ramp EH and deleted New Guardrail on H-1 o/s Rt.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

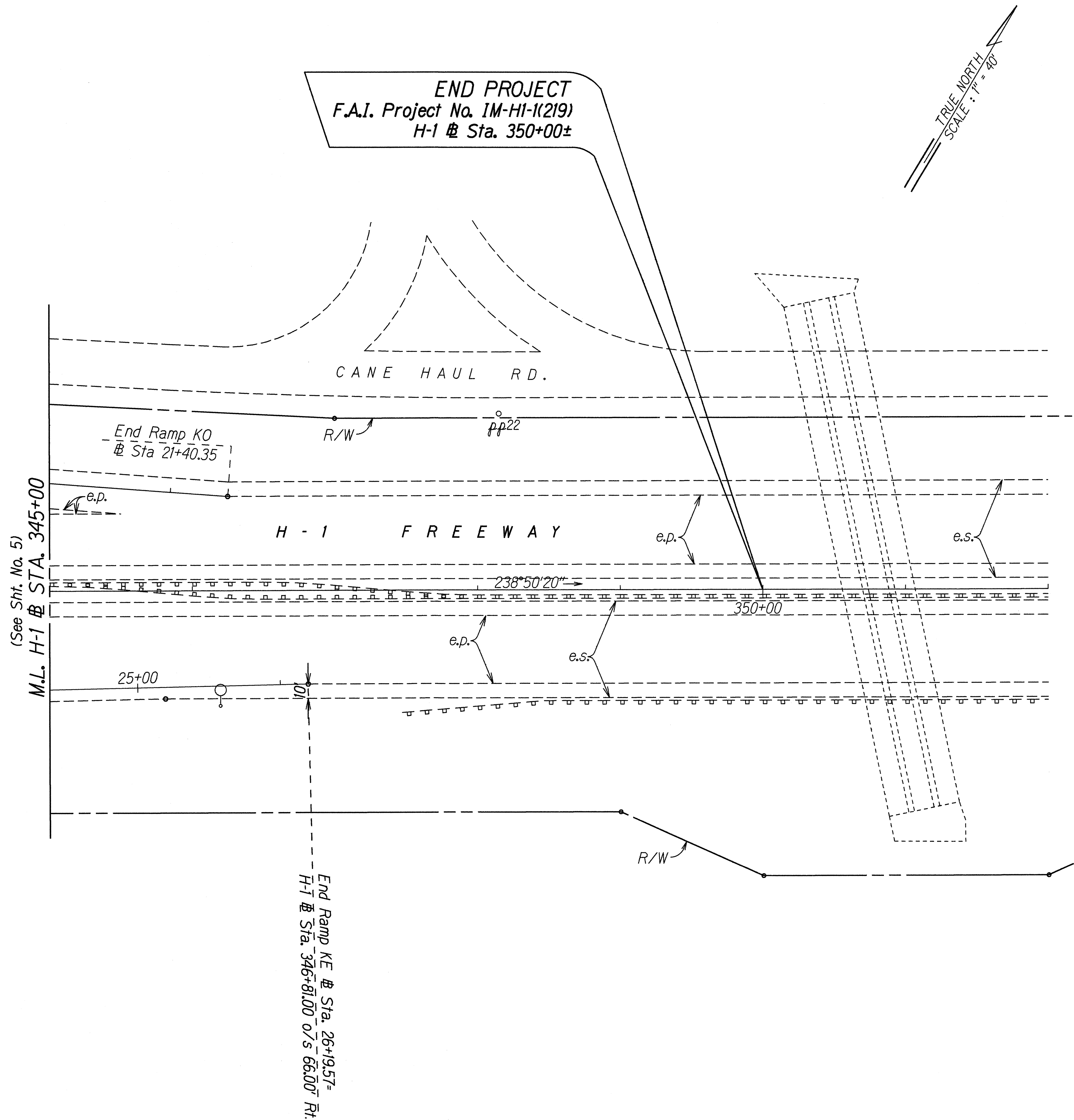
ALIGNMENT PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. IM-H1-K(219)

Scale: 1"=40' Date: Oct. 1997

SHEET No. 5 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	35	378



4-02-99 Deleted New Guardrail on H-1 o/s Rt.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. 1M-HI-1(219)

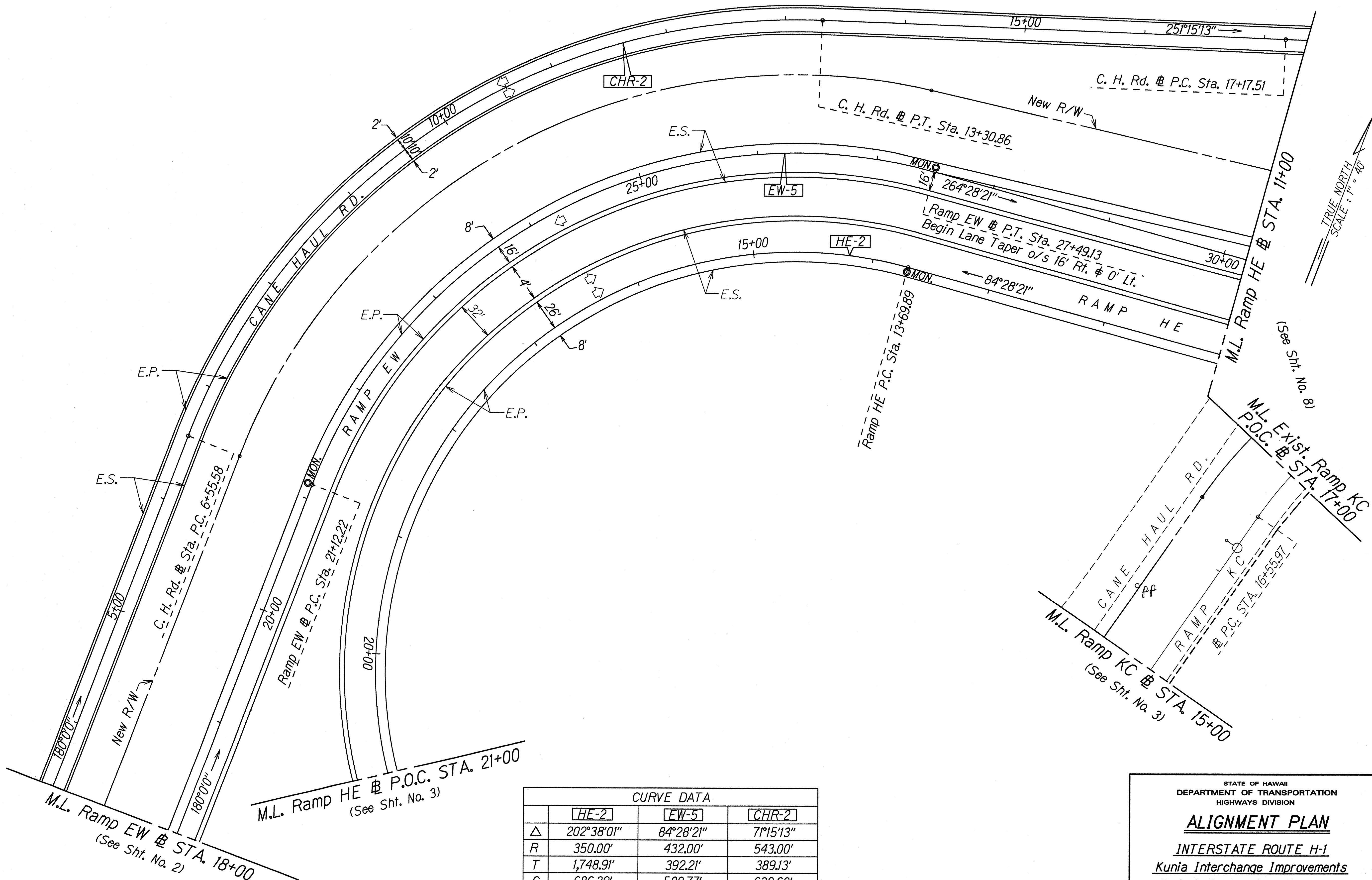
Scale: 1"=40' Date: Oct. 1997

SHEET No. 6 OF 11 SHEETS

C.O. 35

ORIGINAL PLAN	DATE
4-02-99	
SURVEY PLOTTED BY	
DRAWN BY M. HENDELIS, P. WOOD	
DESIGNED BY M. QUINLAN	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
ddm	
N. 010026	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	36	378



ORIGINAL PLAN	DATE
DESIGNED BY	3-20-97
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

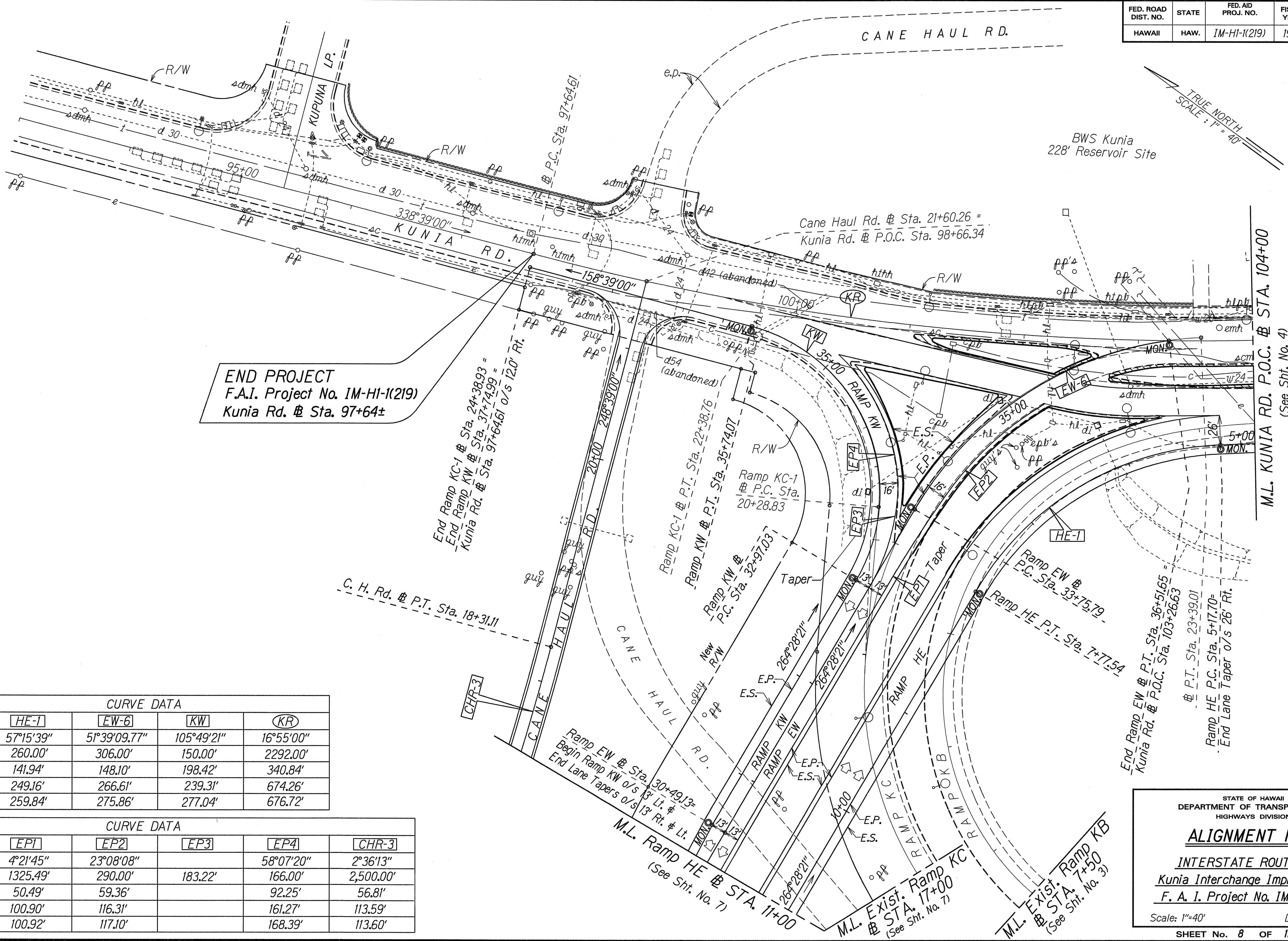
ALIGNMENT PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. IM-HI-1(219)

Scale: 1"=40'
Date: Oct. 1997

SHEET No. 7 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	37	378



CURVE DATA				
	HE-1	EW-6	KW	KR
Δ	57°15'39"	51°39'09.77"	105°49'21"	16°55'00"
R	260.00'	306.00'	150.00'	2292.00'
T	141.94'	148.10'	198.42'	340.84'
C	249.16'	266.61'	239.31'	674.26'
Lc	259.84'	275.86'	277.04'	676.72'

CURVE DATA					
	EPI	EP2	EP3	EP4	CHR-3
Δ	4°21'45"	23°08'08"		58°07'20"	2°36'13"
R	1325.49'	290.00'	183.22'	166.00'	2,500.00'
T	50.49'	59.36'		92.25'	56.81'
C	100.90'	116.31'		161.27'	113.59'
Lc	100.92'	117.10'		168.39'	113.60'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

INTERSTATE ROUTE H-1

Kunia Interchange Improvements

F. A. I. Project No. IM-HI-1(219)

Scale: 1"=40' Date: Oct. 1997

SHEET No. 8 OF 11 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY M. HAWAII, P. WONG	11-25-97
DESIGNED BY M. OGDEN		
QUANTITIES BY		
CHECKED BY		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	38	378

(See Sht. No. 4)
M.L. Ramp EH @ P.T. STA. 8+52.88

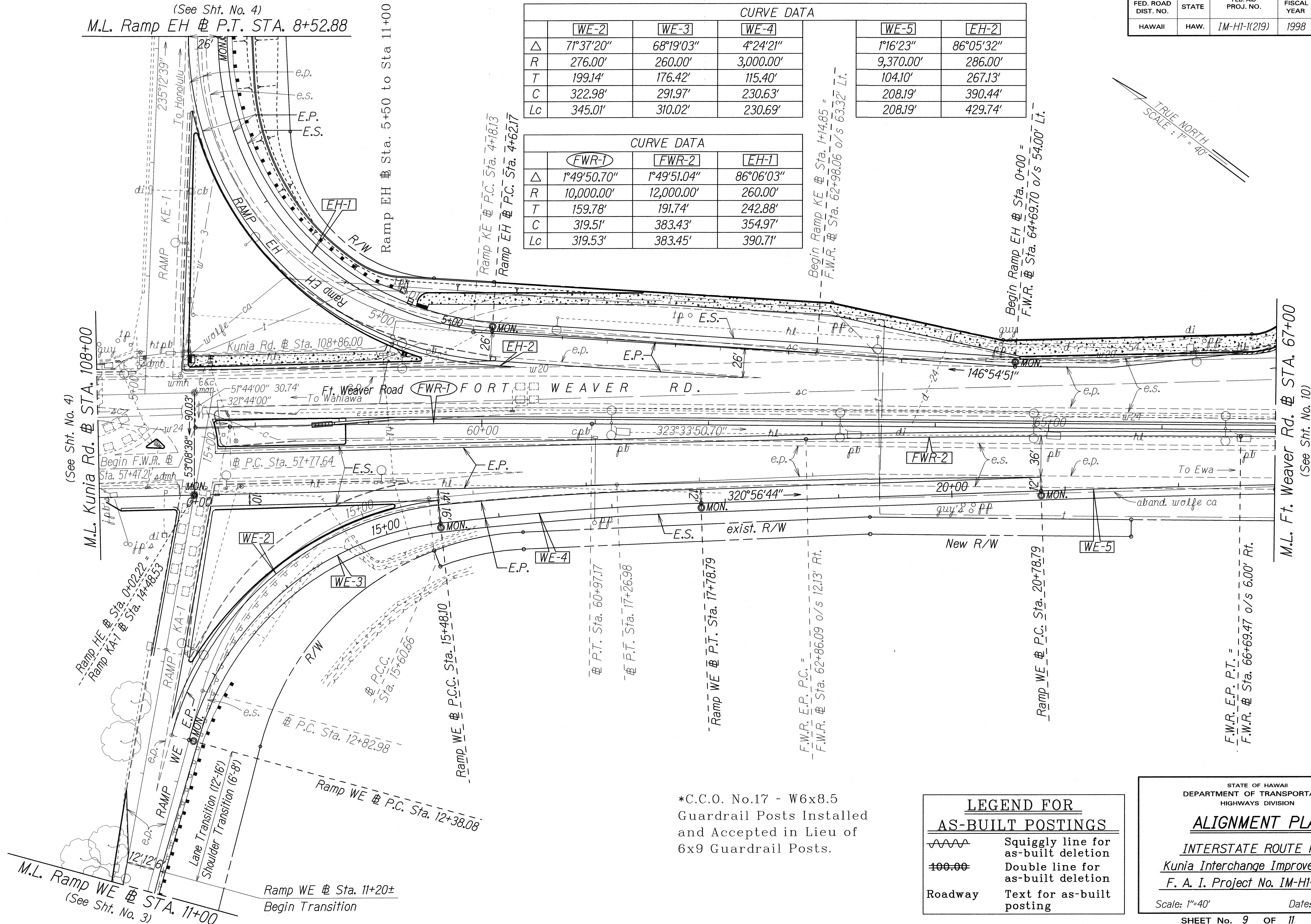
CURVE DATA					
	WE-2	WE-3	WE-4	WE-5	EH-2
Δ	71°37'20"	68°19'03"	4°24'21"	1°16'23"	86°05'32"
R	276.00'	260.00'	3,000.00'	9,370.00'	286.00'
T	199.14'	176.42'	115.40'	104.10'	267.13'
C	322.98'	291.97'	230.63'	208.19'	390.44'
Lc	345.01'	310.02'	230.69'	208.19'	429.74'

CURVE DATA		
	FWR-1	FWR-2
Δ	1°49'50.70"	1°49'51.04"
R	10,000.00'	12,000.00'
T	159.78'	191.74'
C	319.51'	383.43'
Lc	319.53'	383.45'

Begin Ramp KE @ Sta. 1+14.85 =
F.W.R. @ Sta. 62+98.06 o/s 63.32' Lt.

Begin Ramp EH @ Sta. 0+00 =
F.W.R. @ Sta. 64+69.70 o/s 54.00' Lt.

TRUE NORTH
SCALE: 1" = 40'



*C.C.O. No.17 - W6x8.5
Guardrail Posts Installed
and Accepted in Lieu of
6x9 Guardrail Posts.

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

ALIGNMENT PLAN
INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. IM-HI-1(219)

Scale: 1"=40'

Date: Oct. 1997

SHEET No. 9 OF 11 SHEETS

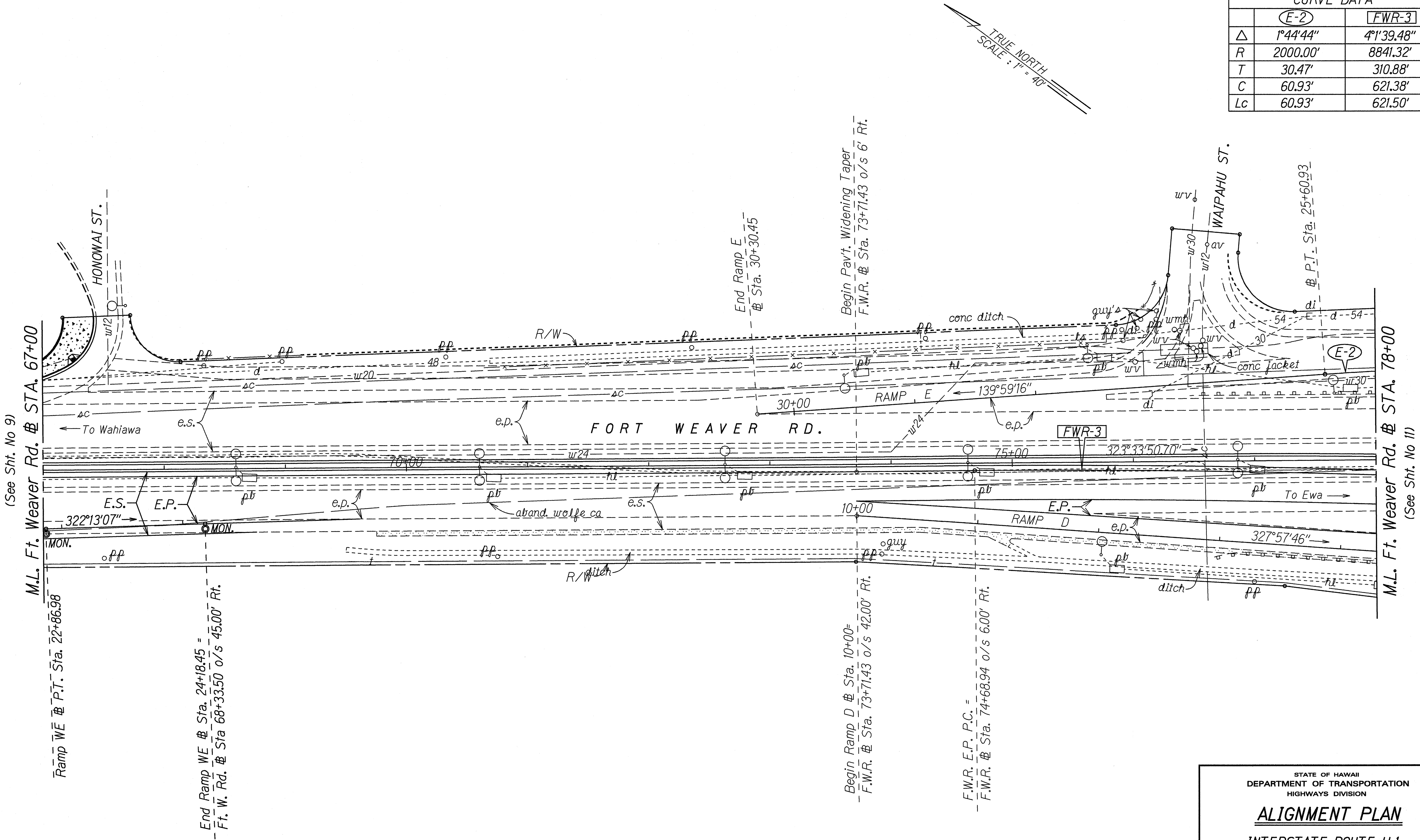
ORIGINAL PLAN	DATE
DESIGNED BY	7-2-97
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

AS-BUILT

38

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	39	378

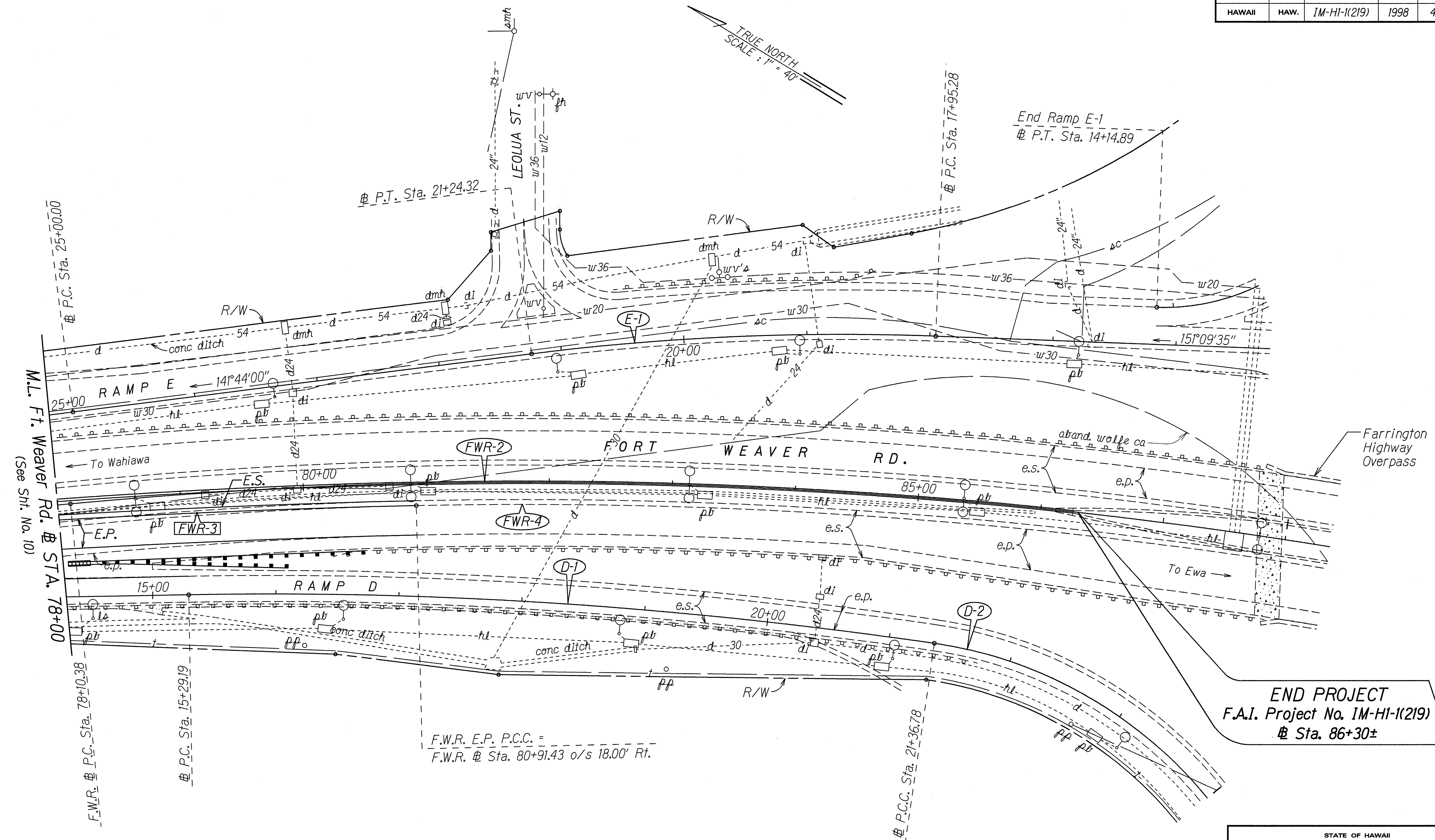
CURVE DATA		
	E-2	FWR-3
Δ	1°44'44"	4°1'39.48"
R	2000.00'	8841.32'
T	30.47'	310.88'
C	60.93'	621.38'
Lc	60.93'	621.50'



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	11-3-97
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ALIGNMENT PLAN
INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. 1M-HI-1(219)
Scale: 1"=40' Date: Oct. 1997
SHEET No. 10 OF 11 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	40	378



CURVE DATA						
	(D-1)	(D-2)	(E-1)	(FWR-2)	(FWR-3)	(FWR-4)
Δ	9°16'59.60"	76°33'31"	9°25'35"	41°28'57.70"	4°1'39.48"	37°27'18"
R	3750.00'	350.00'	2000.00'	4000.00'	8841.32'	3,982.00'
T	304.46'	276.21'	164.89'	1514.77'	310.88'	1,349.96'
C	606.92'	433.65'	328.67'	2833.20'	621.38'	2,556.98'
Lc	607.59'	467.67'	329.04'	2896.04'	621.50'	2,603.09'

DATE	12-19-97
DESIGNED BY	M. P. Wong
CHECKED BY	N. J. J. J.
NOTED BY	N. J. J. J.
QUANTITIES BY	N. J. J. J.
ORIGINAL PLAN	N. J. J. J.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. 1M-HI-1(219)

Scale: 1"=40' Date: Oct. 1997
SHEET No. 11 OF 11 SHEETS