

CONSTRUCTION PHASING NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H1-1(219)	1998	69	378

1. The Contractor shall follow the consecutive order of Construction Phasing as follows:

Phase I - North East Quadrant Construction:
Ramp EW, Ramp HE, and New Cane Haul Road

Constructing detour roads; grading; constructing new a.c. pavement; installing new guardrail, fencing, curb and/or gutter, drainage and highway lighting facilities; and landscaping.

Phase IA - Ramp EW, $\pm$ Sta. 0+00 $\pm$ to $\pm$ Sta. 33+00 $\pm$;
Ramp HE, $\pm$ Sta. 9+60 $\pm$ to $\pm$ Sta. 25+85 $\pm$;
Ramp KW, $\pm$ Sta. 27+49 $\pm$ to $\pm$ Sta. 33+42 $\pm$; and
New Cane Haul Road, $\pm$ Sta. 0+00 to $\pm$ Sta. 21+50 $\pm$.

Grading; constructing new a.c. pavement; and installing new guardrail, drainage, fencing, highway lighting facilities and landscaping.

Phase IB - Ramp KW, $\pm$ Sta. 33+42 $\pm$ to $\pm$ Sta. 35+74 $\pm$;
Ramp KC, $\pm$ Sta. 18+00 $\pm$ to Ramp KC-1, $\pm$ Sta. 22+40 $\pm$; and
Ramp EW, $\pm$ Sta. 33+00 $\pm$ to $\pm$ Sta. 33+40 $\pm$.

Constructing a detour road east of Ramp KC-1 and west of Ramp KC; grading; constructing new a.c. pavement; and installing new highway lighting facilities.

Phase IC - Ramp KC, $\pm$ Sta. 20+50 $\pm$ to $\pm$ Sta. 22+20 $\pm$; and
Ramp EW, $\pm$ Sta. 33+40 $\pm$ to $\pm$ Sta. 35+10 $\pm$.

Ramp KC: Constructing a detour road north of Ramp KC.

Ramp EW: Grading; constructing new a.c. pavement; and installing new drainage and highway lighting facilities.

Phase ID - Ramp HE, $\pm$ Sta. 25+85 $\pm$ to $\pm$ Sta. 31+60 $\pm$; and
H-1, $\pm$ Sta. 307+00 $\pm$ to $\pm$ Sta. 328+20 $\pm$

Removing and installing guardrail; grading; constructing new a.c. pavement; and installing curb and/or gutter, landscaping and new drainage and highway lighting facilities.

Phase II - Construction along Kunia Road and Fort Weaver Road.

Grading; constructing new a.c. pavement and a retaining wall; and installing reinforced concrete sidewalk, curb and/or gutter, GRP, concrete barriers, and drainage and highway lighting facilities.

Phase IIA - Ramp HE, $\pm$ Sta. 0+00 $\pm$ to $\pm$ Sta. 5+20 $\pm$

Grading; constructing retaining wall and new a.c. pavement; relocating utilities; and installing GRP, and drainage and highway lighting facilities.

Phase IIB - Fort Weaver Rd., $\pm$ Sta. 57+67 $\pm$ to $\pm$ Sta. 86+12 $\pm$ (Median)

Constructing new a.c. pavement; and installing curb, median concrete barriers, and drainage and highway lighting facilities.

Phase IIC - Fort Weaver Rd., $\pm$ Sta. 59+53 $\pm$ to $\pm$ Sta. 68+34 $\pm$ (Right); and
Ramp WE, $\pm$ Sta. 9+28 $\pm$ to $\pm$ Sta. 11+81 $\pm$ (Left) $\pm$ $\pm$ Sta. 10+80 $\pm$ to $\pm$ Sta. 24+20 $\pm$ (Right)

Grading; constructing detour road and new a.c. pavement; and installing raised island, curb, guardrail, and drainage and highway lighting facilities.

Phase IID - Ramp WE, $\pm$ Sta. 11+20 $\pm$ $\pm$ Sta. 16+25 $\pm$; and
Fort Weaver Rd., $\pm$ Sta. 57+50 $\pm$ to $\pm$ Sta. 60+50 $\pm$ Rt.

Removing detour road; grading; constructing new a.c. pavement; and installing curb and/or gutter, drainage, highway lighting facilities and landscaping.

Phase III - H-1 Outbound Outer Pavement Widening and Ramp HE Construction

Grading; constructing new a.c. pavement; removing and installing guardrail; and installing curb and/or gutter, and drainage and highway lighting facilities.

Phase IIIA - H-1, $\pm$ Sta. 328+50 $\pm$ to $\pm$ Sta. 345+40 $\pm$

Grading; constructing new a.c. pavement; removing and installing guardrail and lighting facilities; and installing drainage facilities.

Phase IIIB - Ramp HE, $\pm$ Sta. 8+60 $\pm$ to $\pm$ Sta. 9+60 $\pm$

Grading; constructing new a.c. pavement; and installing drainage and highway lighting facilities.

Phase IIIC - Ramp HE, $\pm$ Sta. 30+60 $\pm$ to $\pm$ Sta. 34+76 $\pm$; and
H-1, $\pm$ Sta. 320+10 $\pm$ to $\pm$ Sta. 324+30 $\pm$

Constructing new a.c. pavement; removing and installing guardrail and lighting facilities; and installing drainage facilities.

Phase IIID - Ramp HE, $\pm$ Sta. 5+20 $\pm$ to $\pm$ Sta. 9+60 $\pm$

(1) South Lane: Grading; constructing new a.c. pavement; and installing drainage and highway lighting facilities.

(2) North Lane: Grading; constructing new a.c. pavement; and installing curb and/or gutter, landscaping, drainage and highway lighting facilities.

Phase IV - Ramps EH and Fort Weaver Road Outer Pavement Widening

Grading; constructing new a.c. pavement, raised island, and retaining and noise walls; removing and installing guardrail and sidewalks; landscaping; and installing drainage and highway lighting facilities.

Phase IVA - Ramp EH, $\pm$ Sta. 0+00 to $\pm$ Sta. 20+22 $\pm$

Grading; constructing new a.c. pavement and retaining and noise walls; removing and installing guardrail; landscaping; and installing drainage and highway lighting facilities.

Phase IVB - Ramp EH, $\pm$ Sta. 2+31 $\pm$ to $\pm$ Sta. 8+05 $\pm$;
Ramp KE-1, $\pm$ Sta. 5+06 $\pm$ to $\pm$ Sta. 7+71 $\pm$; and
Kunia Rd., $\pm$ Sta. 108+65 $\pm$ to Fort Weaver Rd., $\pm$ Sta. 61+05 $\pm$

Grading; constructing new a.c. pavement and raised island; removing and installing sidewalks; landscaping; and installing drainage and highway lighting facilities.

Phase IVC - Kunia Rd. Median, $\pm$ Sta. 101+00 $\pm$ to $\pm$ Sta. 108+00 $\pm$

Removing existing curbing; constructing new curbing; constructing glarescreens; installing QuadGuard; lanscaping; paving.

Phase V - Final A.C. Lift for Ramps EH $\pm$ EW; Signing; and Final Striping.

Ramps EH $\pm$ EW: Laying final a.c. lift.

Entire Project: Installing signs and final striping.

(CONTINUED ON NEXT SHEET)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING

NOTES

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

Date: Oct. 1997

SHEET No. 69 OF 41 SHEETS

ORIGINAL PLAN	DATE	11-4-97
NOTE BOOK	DESIGNED BY	LA
QUANTITIES BY	CHECKED BY	NC/10/97

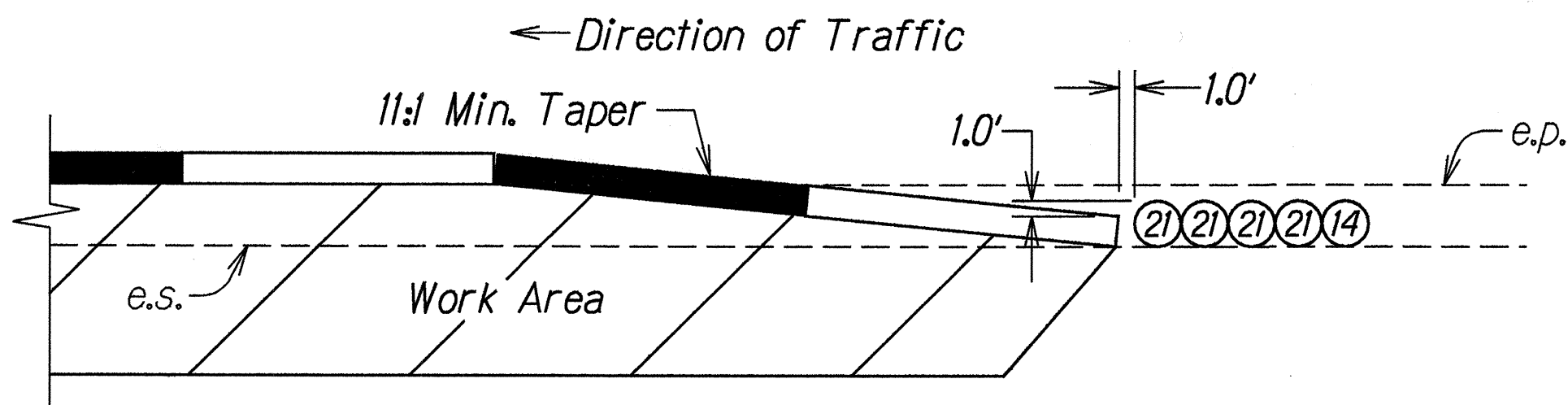
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HAWAII	HAW.	1M-HI-1(219)	1998	70	378

CONSTRUCTION PHASING NOTES (CONT.)

- Contractor shall not proceed to the next construction Phase without approval by the Engineer. Any requests for adjustments in sequence of Construction Phasing shall be submitted in writing and approved by the Engineer. The Contractor's attention is directed to Subsection 108.08 - Failure to Complete on Time and Liquidated Damages of the Special Provisions.
- Relocation and/or removal of temporary signs, posts and portable concrete barriers used for Construction Phasing shall be considered incidental to their respective contract items.
- All temporary signs and delineators for the purposes of Construction Phasing shall become the property of the Contractor at the completion of the project.
- The Contractor shall delete the use of the ground anchorage steel pin for State Furnished Portable Concrete Barrier.
- Portable concrete barrier panels not in use during construction work shall not be stockpiled or otherwise stored within the highway rights-of-way except at locations approved by the Engineer.
- The Contractor shall periodically wash down signs, delineators and portable concrete barriers called for in the Construction Phasing Plans as deemed necessary by the Engineer. This work shall be considered incidental to the various contract items and no payment will be made therefore.
- The location of pavement markings and signs, delineators and portable concrete guardrail panels used in the Construction Phasing shall be as shown on the plans and/or as determined in the field by the Engineer.
- Damage to signs, temporary pavement markers, delineators and portable concrete barriers caused by the public shall be repaired or replaced by the Contractor as directed by the Engineer. This work shall be paid for under Item No. 645.0200 - Police Officers and/or Additional Traffic Control Devices. Damage caused by the Contractor's negligence shall be repaired or replaced at the Contractor's expense.
- Work required in the State's Construction Phase Plans will be paid under applicable contract items or as otherwise specified herein. All other traffic control work shall be in accordance with Section 645 - Traffic Control. Work required for lane closures during the working day will not be paid for but shall be considered incidental to various contract items. Advance Construction Warning Signs as required under Section 645 of the Special Provisions shall be installed on all approaches to construction areas including on-ramps. This work shall be considered incidental to the various contract items.
- Install Steady Burn Amber Lamps on portable concrete barrier @ 20.0' o.c. Installing, maintaining and changing batteries of the Portable Mounted Steady Burn Amber Lamps shall be considered incidental to Item No. 606.4230 - State Furnished Portable Concrete Barrier (Intermediate Panel).

LEGEND

- Portable Concrete Barrier
- Phase Area
- Detour Road
(3" A.C. Pavement Mix No. IV,
6" A.C. Base Course)
- Inertial Barrier System
(Numbers indicate weight
of sand in 100 lb. units)



TYPICAL DETAIL
5-MODULE INERTIAL BARRIER

Scale: 1" = 10'

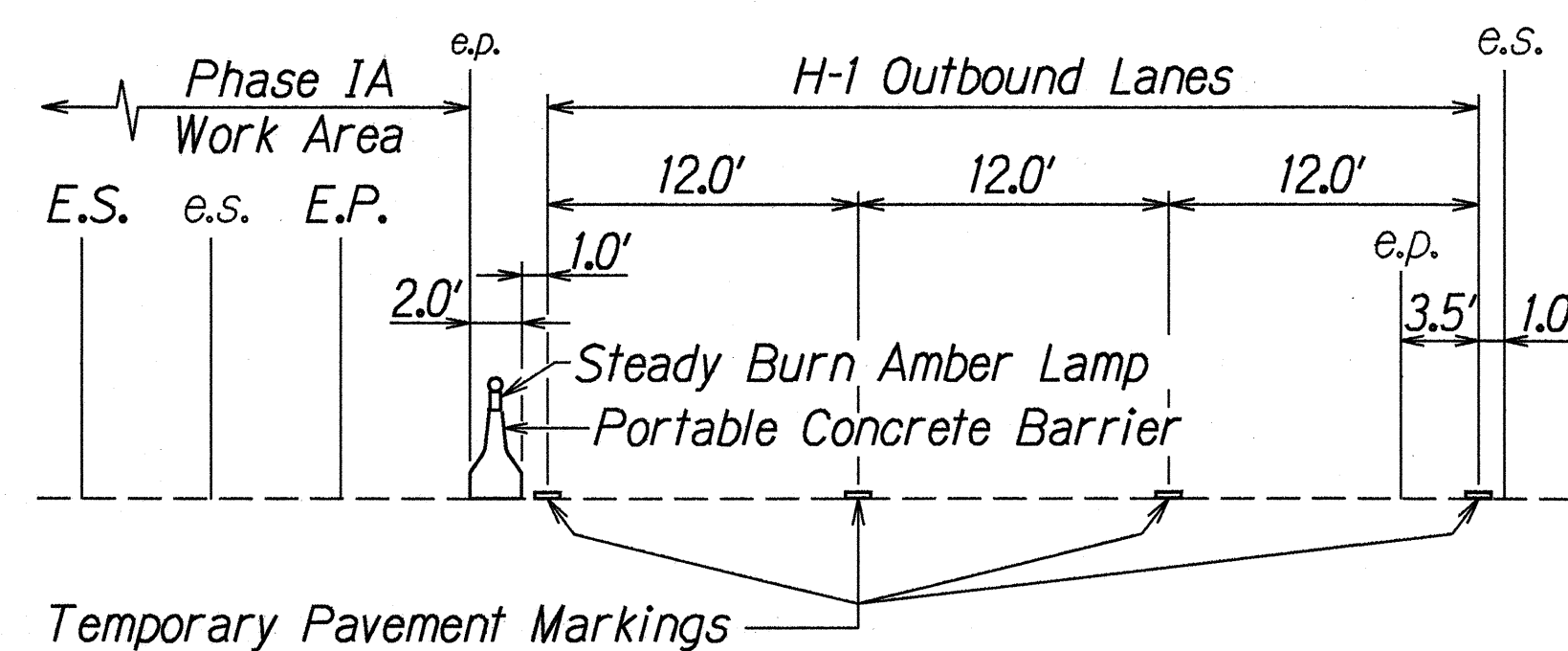
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NOTE BOOK	DRAWN BY	10-24-97
DESIGNED BY	DESIGNED BY	
QUANTITIES BY	QUANTITIES BY	
CHECKED BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

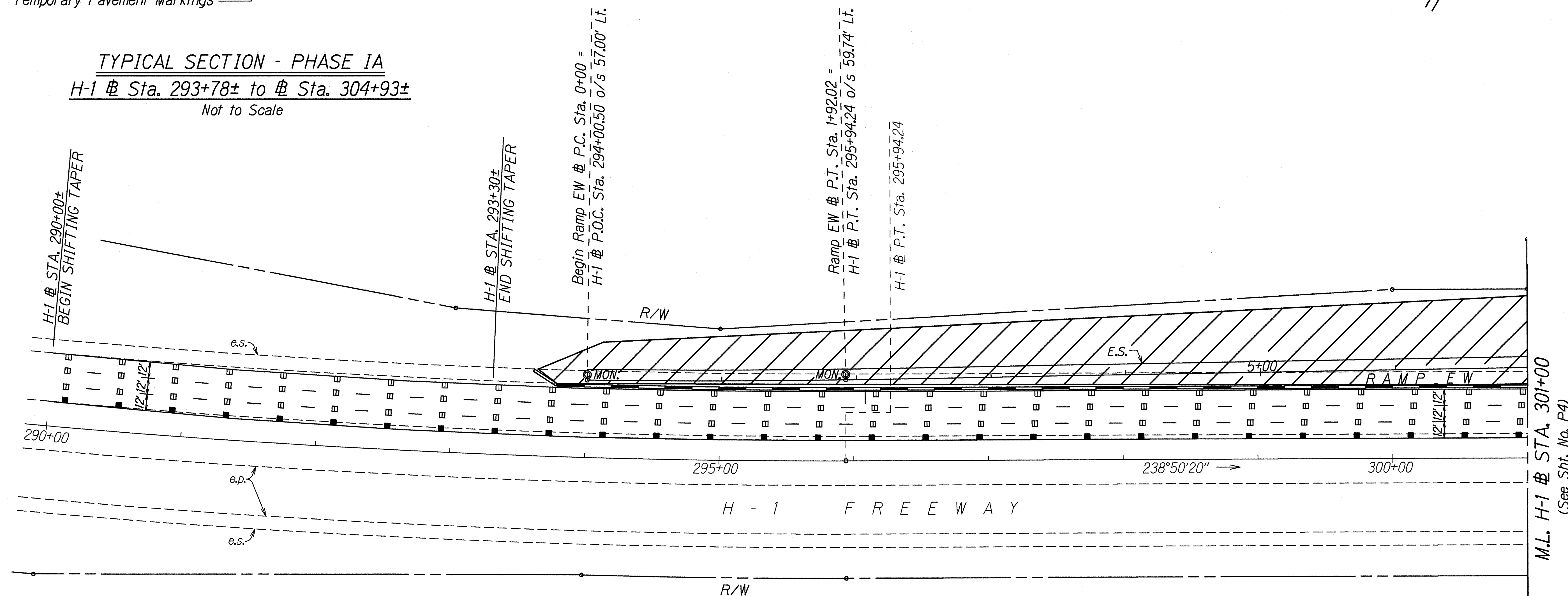
CONSTRUCTION PHASING
NOTES, LEGEND & DETAIL
INTERSTATE ROUTE H-1
Kunia Interchange Improvements
F. A. I. Project No. 1M-HI-1(219)
Date: Oct. 1997

SHEET No. P2 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	71	378



TYPICAL SECTION - PHASE IA
H-1 @ Sta. 293+78± to @ Sta. 304+93±
Not to Scale



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IA

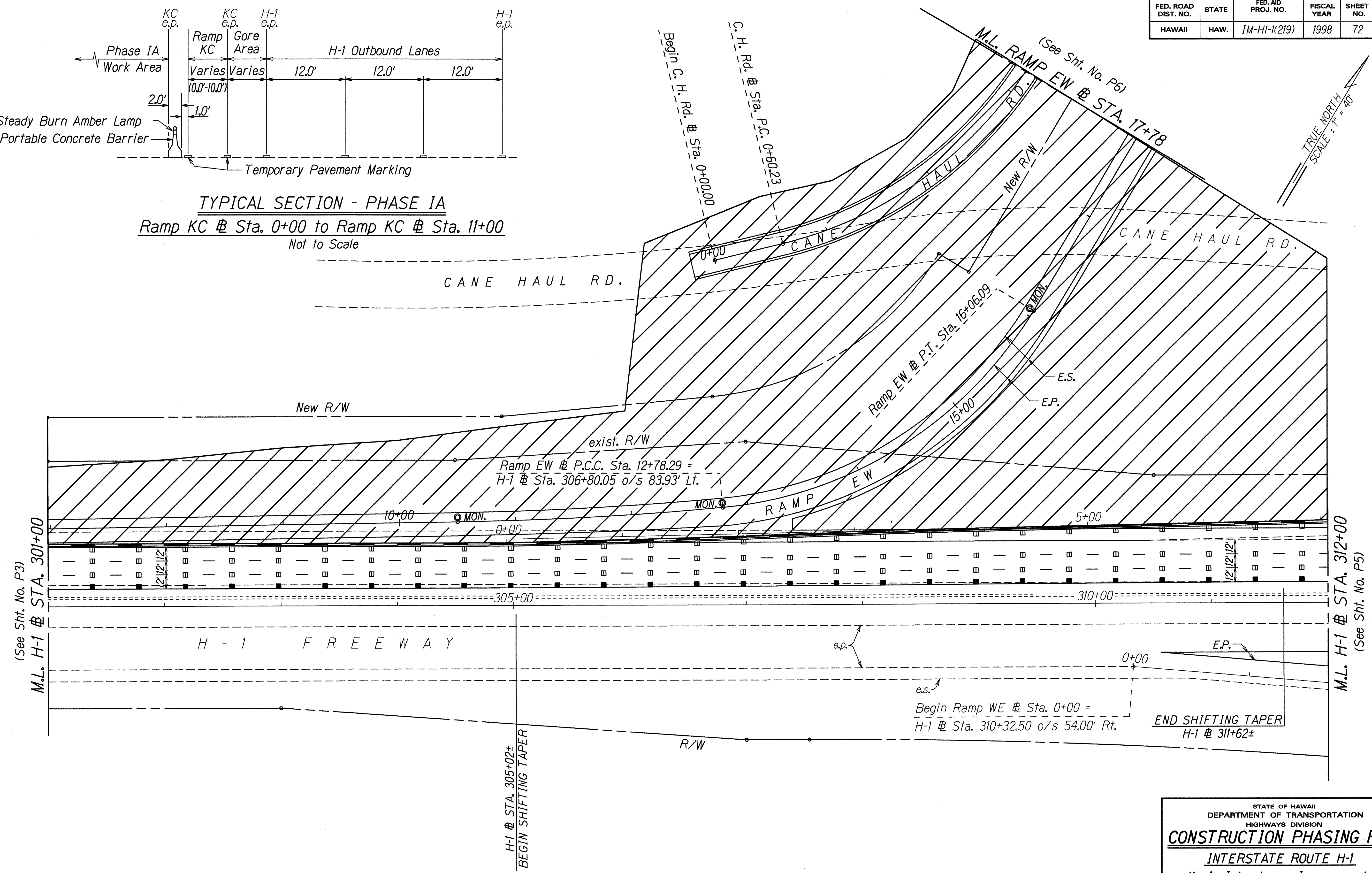
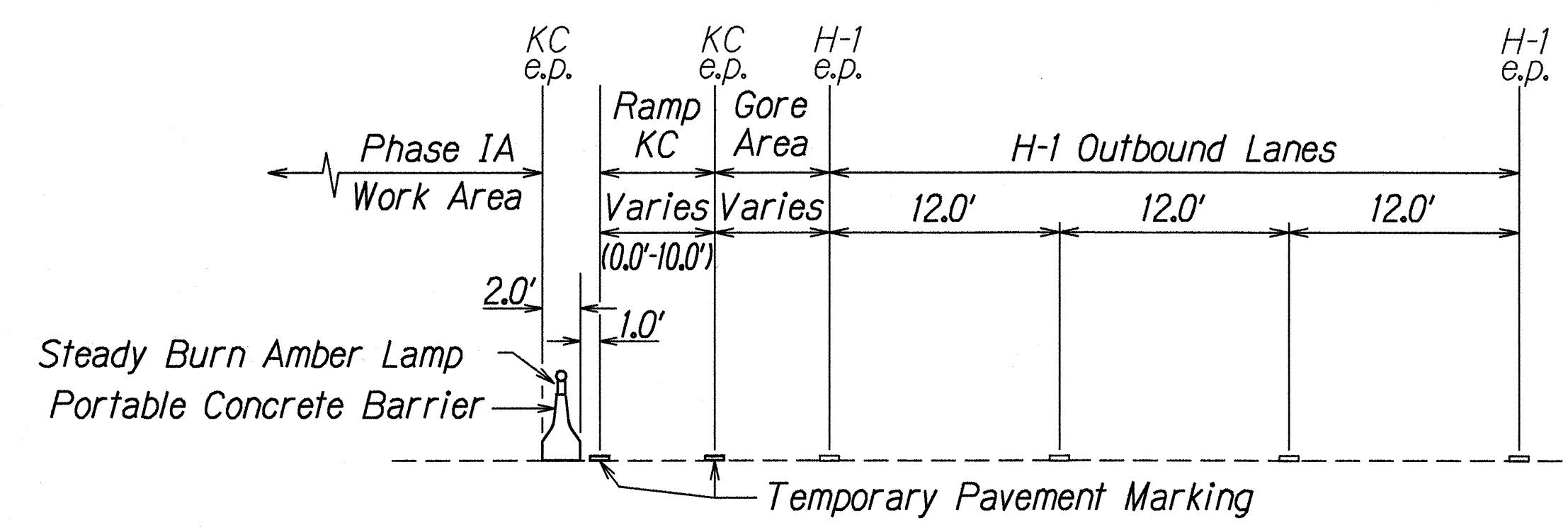
F. A. I. Project No. IM-HI-1(219)

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

SHEET No. P3 OF 41 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-21-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY	DESIGNED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	72	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY J. E. King, M.L. MT	10-21-97
DESIGNED BY J. A. G. K.		
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

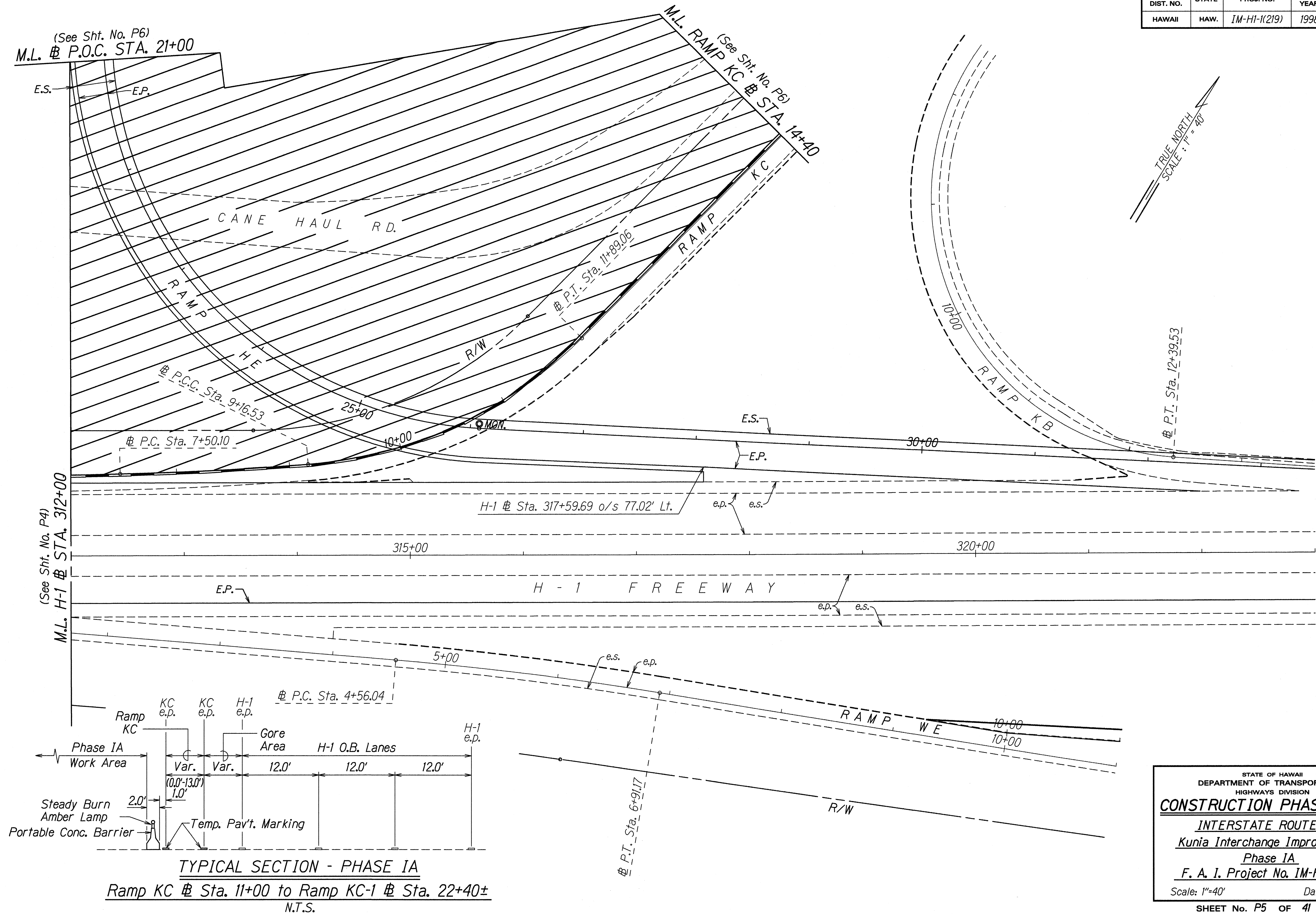
INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IA

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

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

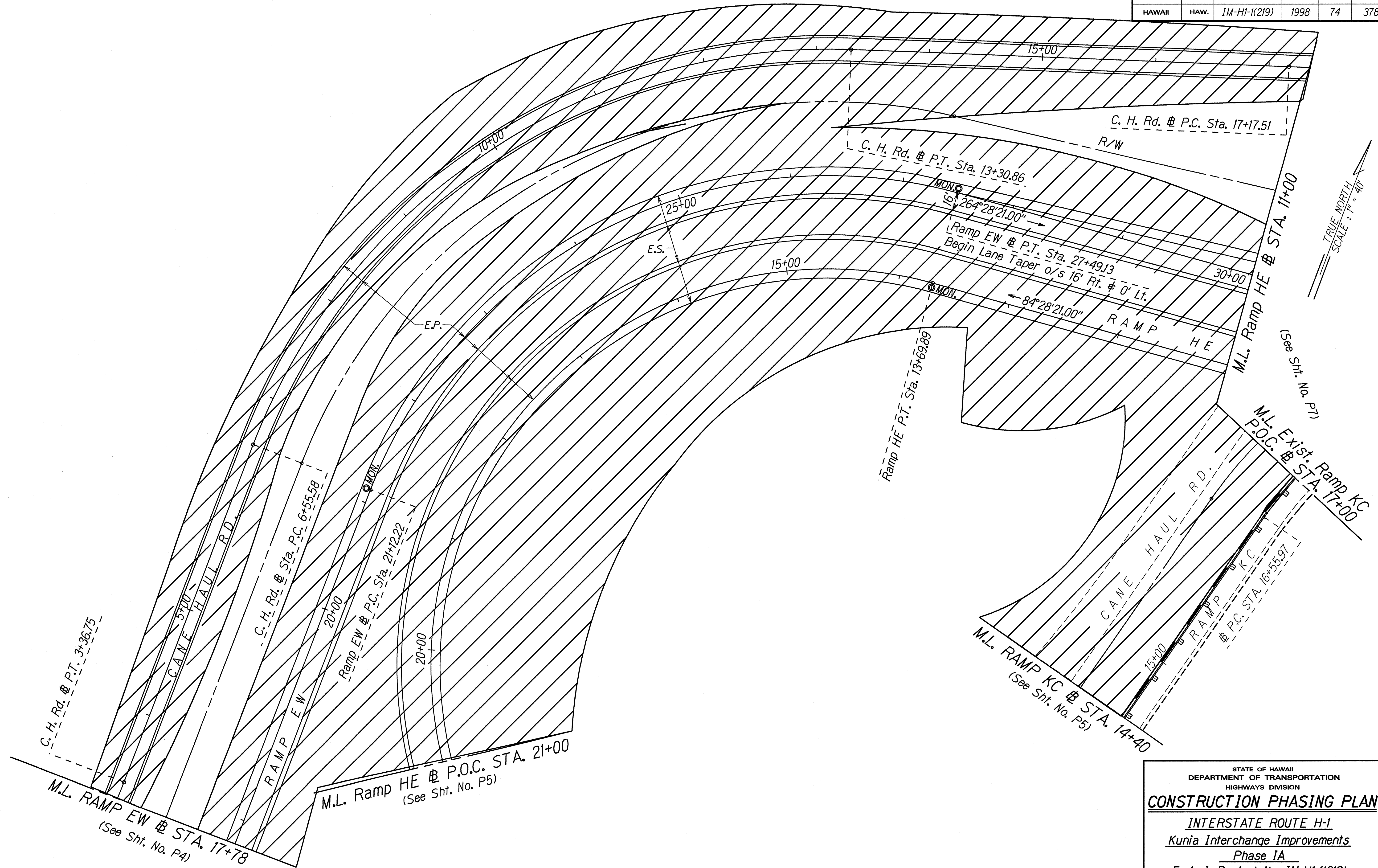
SHEET No. P4 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	73	378



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	DRAWN BY <i>Lapzamb/P. Wang</i>	<i>10-1-97</i>
	TRACED BY	
NOTE BOOK	DESIGNED BY <i>Lp.</i>	
<i>delimh</i>	QUANTITIES BY	
<i>dimdima2</i>	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	74	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10/2/97
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delmi	QUANTITIES BY	
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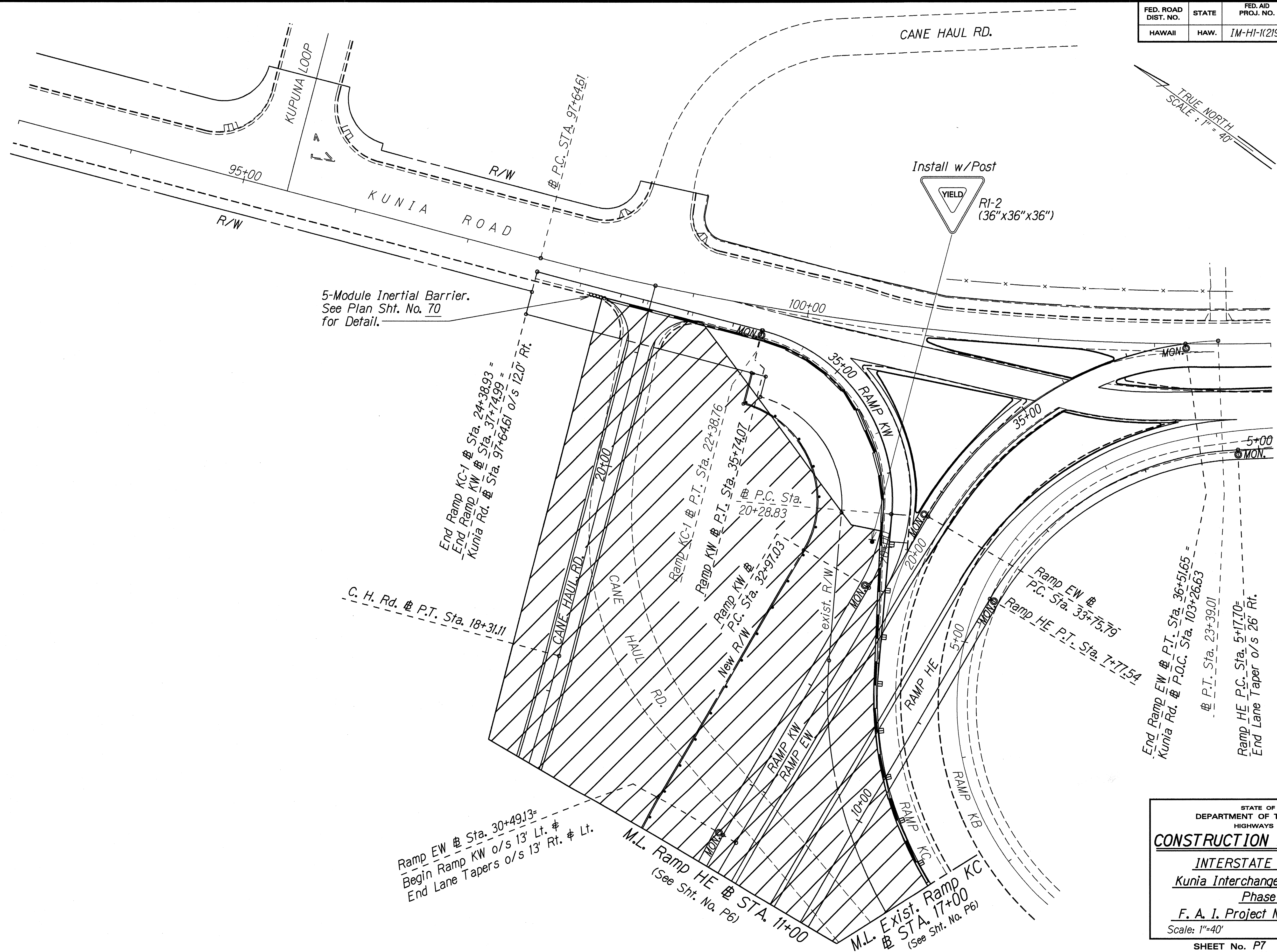
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

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

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	75	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-21-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

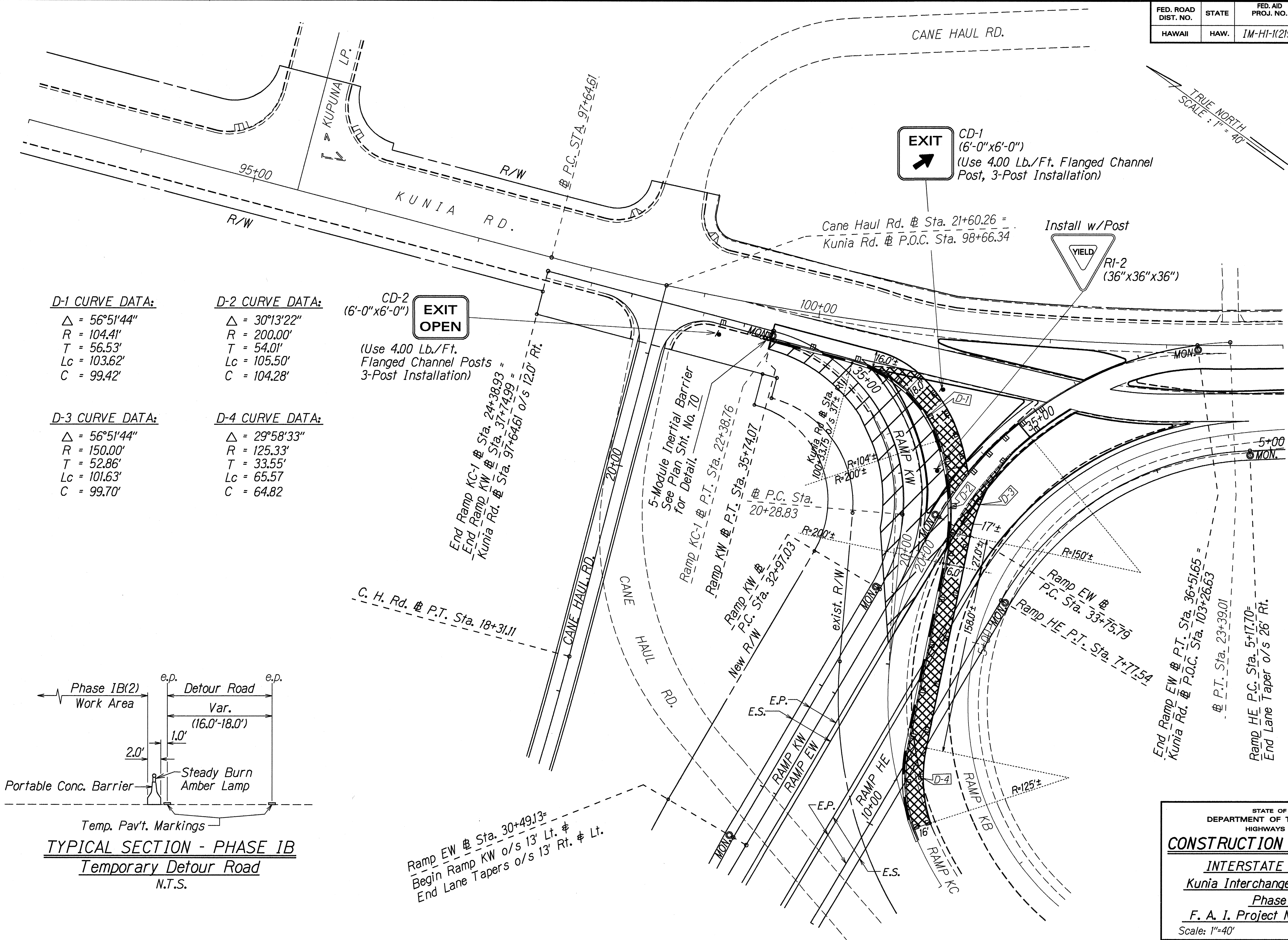
CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IA

F. A. I. Project No. IM-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

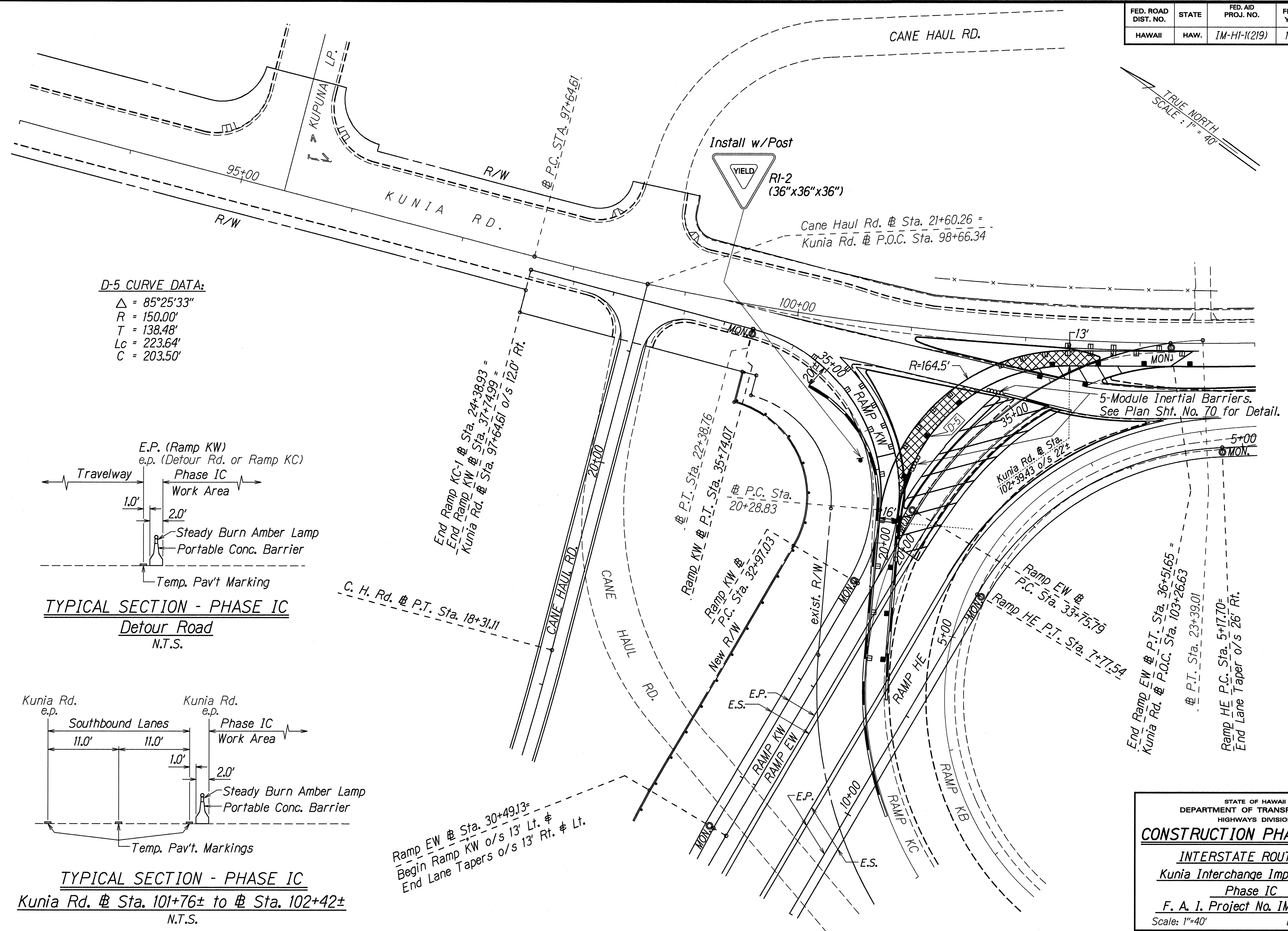
SHEET No. P7 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	76	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-21-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY	IN CHARGE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	77	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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NOTE BOOK	TRACED BY	
<i>delimp</i>	DESIGNED BY <i>L. J. GK</i>	
<i>dnhdifd</i>	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

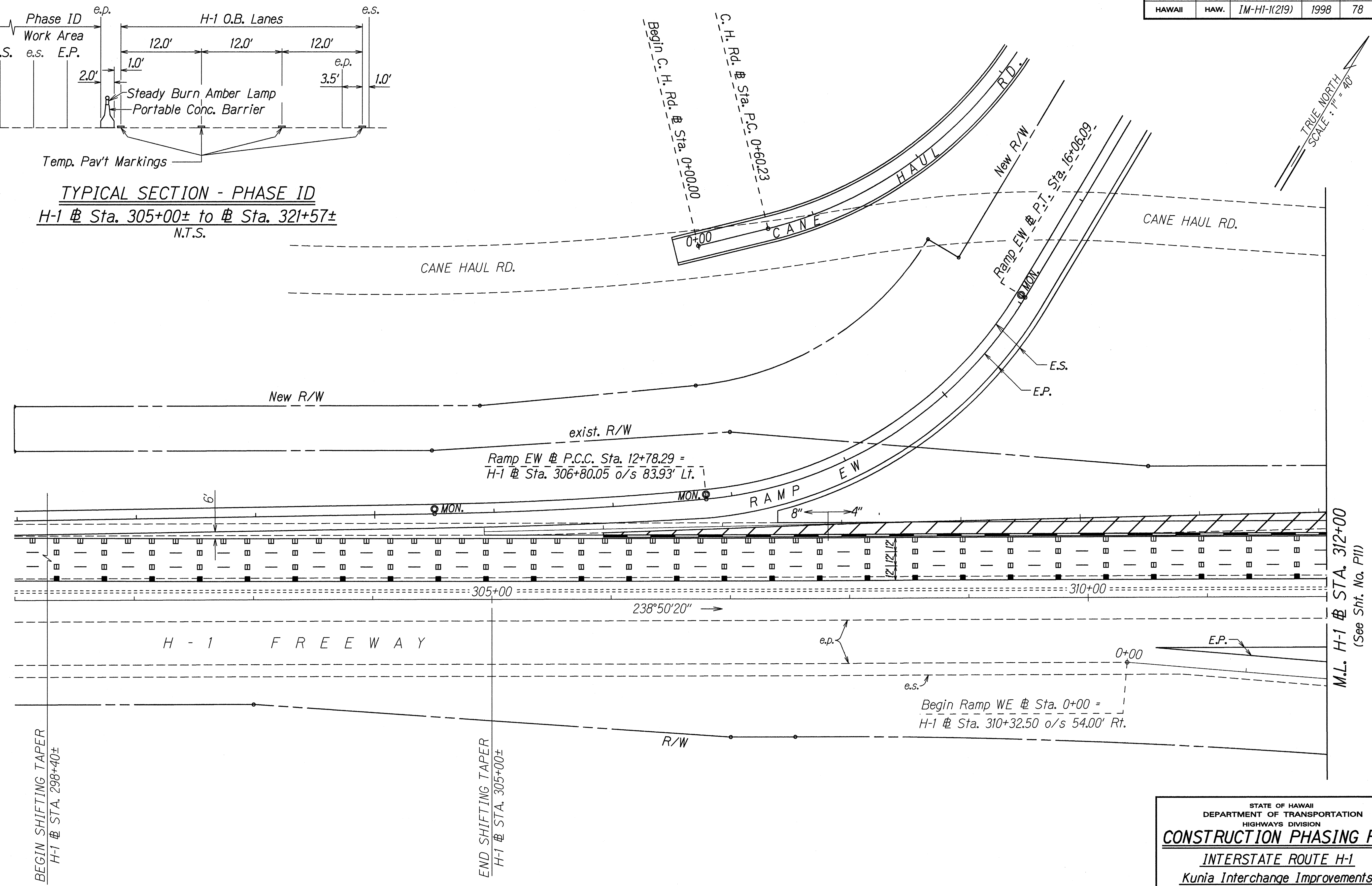
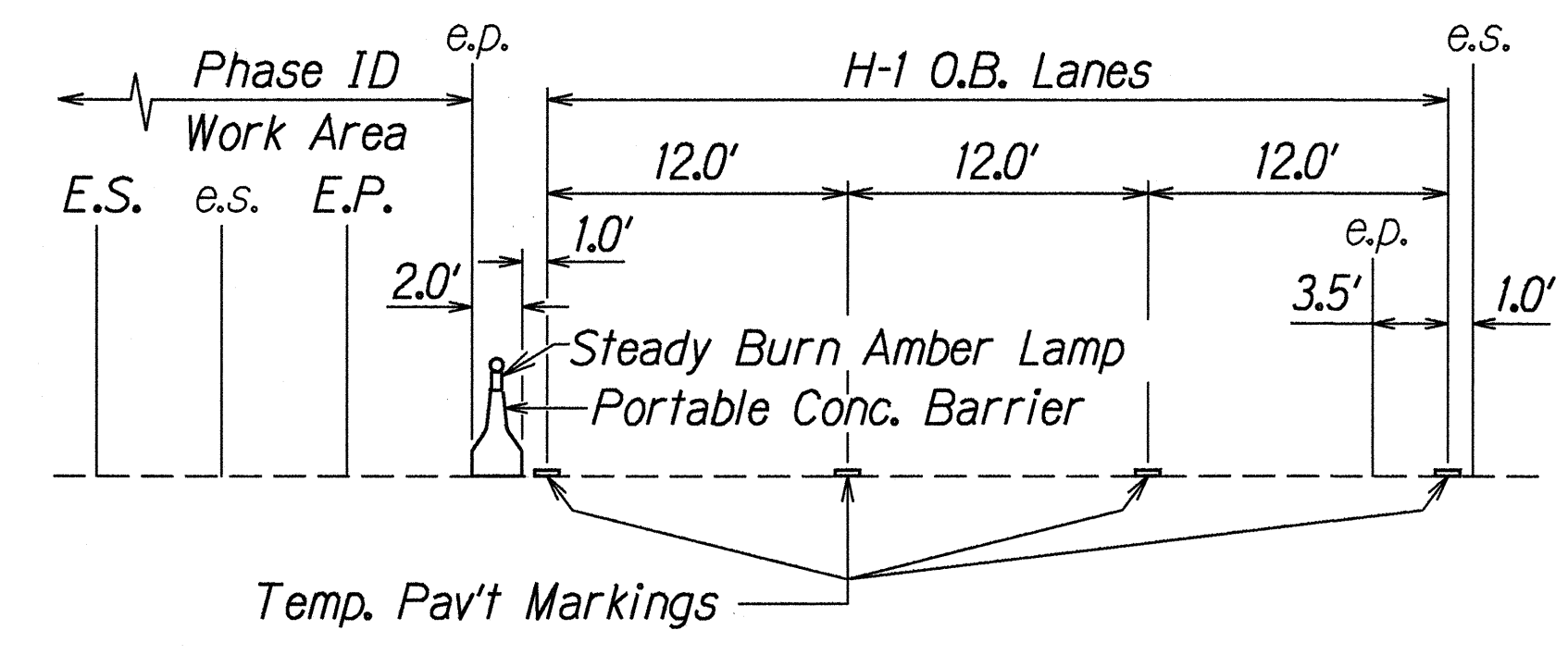
CONSTRUCTION PHASING PLAN

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

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

SHEET No. *P9* OF *41* SHEETS

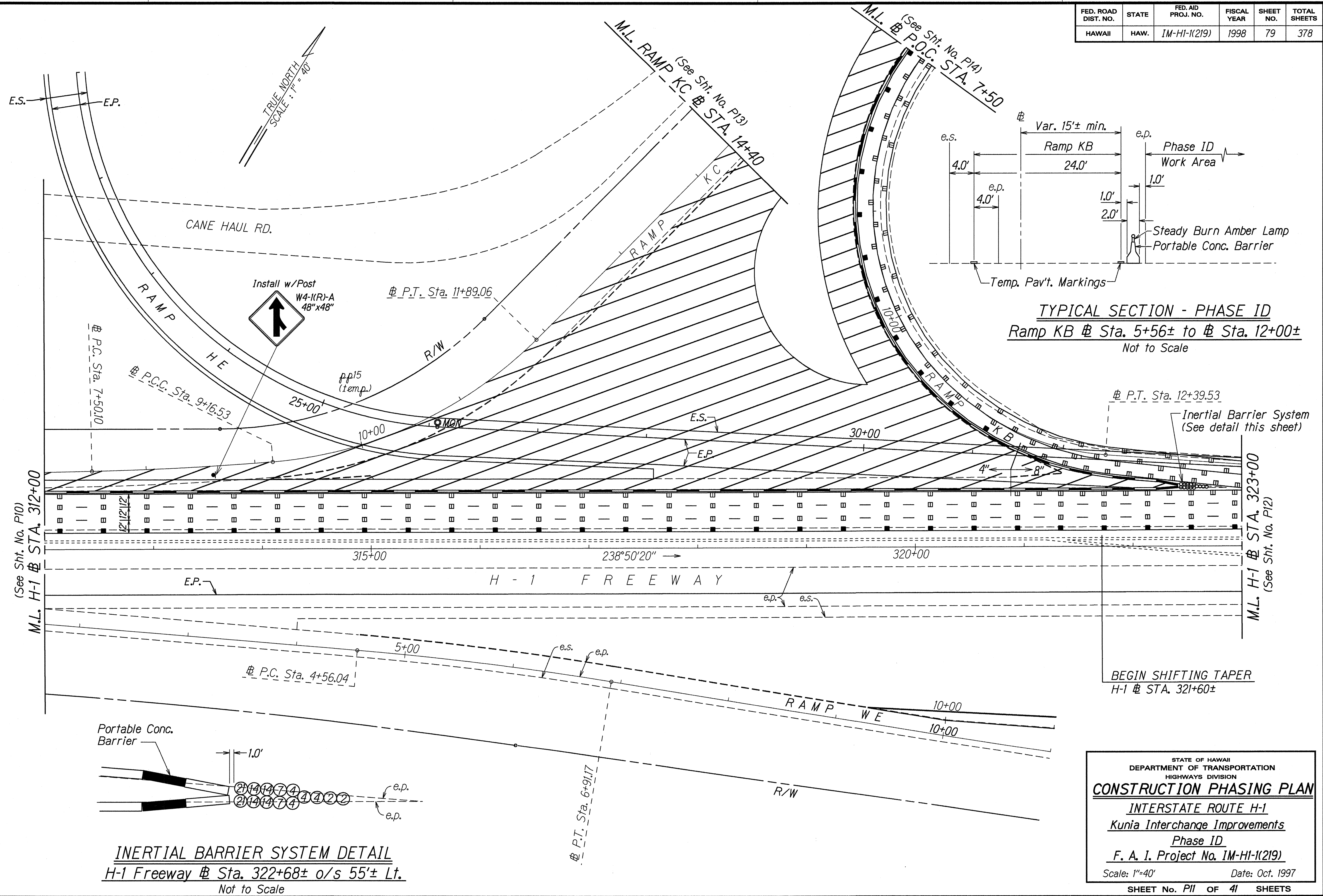
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	78	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-28-97
addm	DESIGNED BY	
No. modified	CHECKED BY	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN
 INTERSTATE ROUTE H-1
 Kunia Interchange Improvements
 Phase ID
 F. A. I. Project No. IM-HI-1(219)
 Scale: 1"=40' Date: Oct. 1997
 SHEET No. P10 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	79	378



SURVEY PLOTTED BY	DATE
DRAWN BY	10-29-97
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

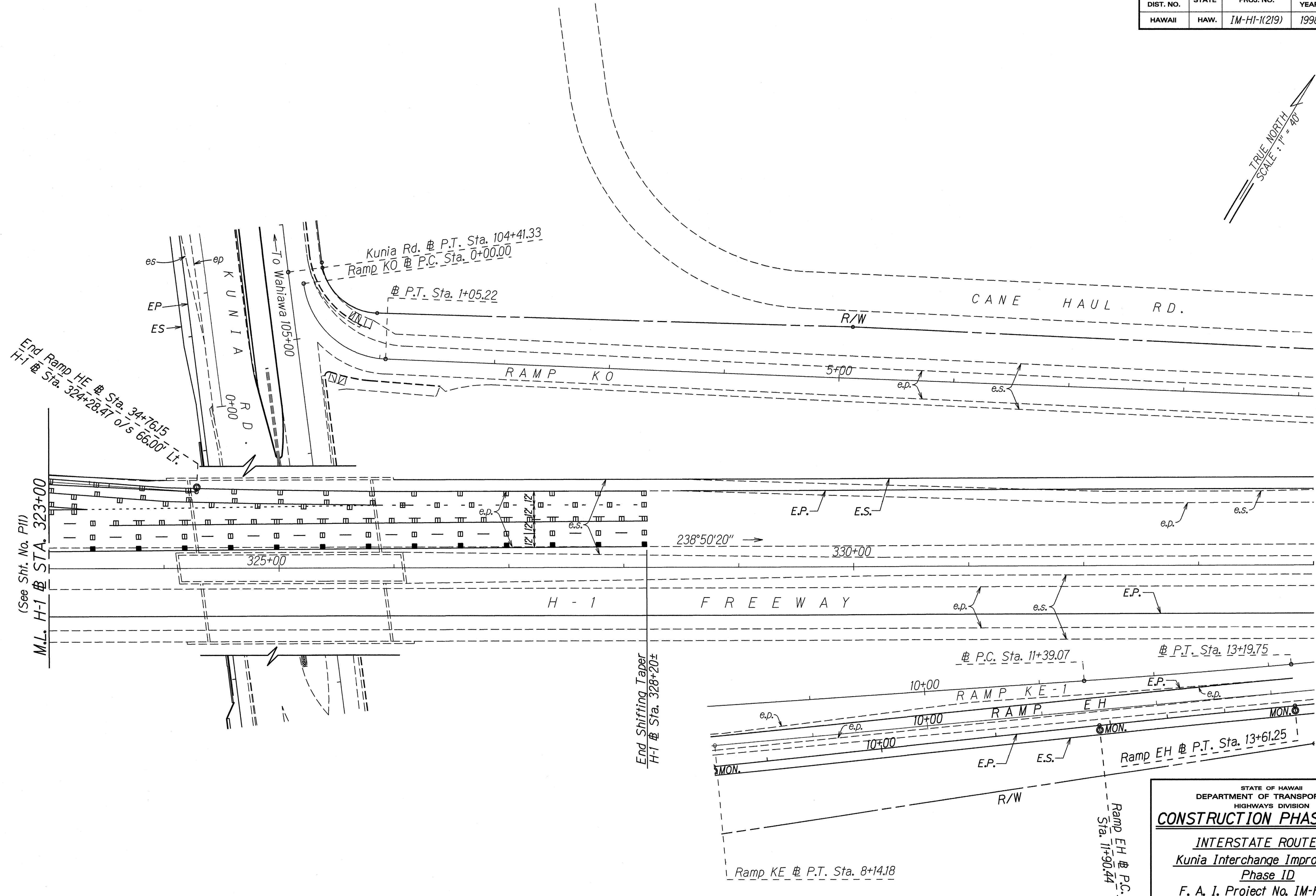
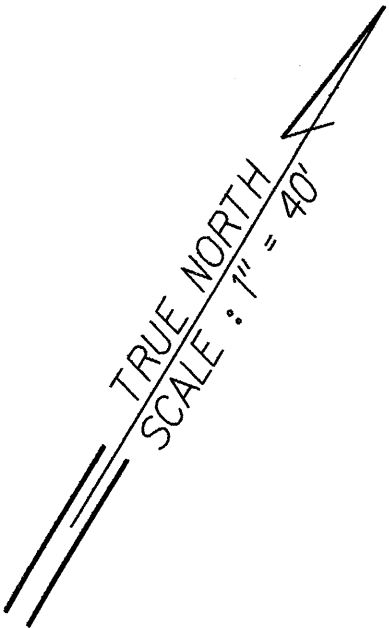
CONSTRUCTION PHASING PLAN

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

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

SHEET No. 79 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	80	378



End Ramp HE @ Sta. 34+76.15
H-1 @ Sta. 324+28.47 o/s 66.00' Lt.
M.L. H-1 @ STA. 323+00
(See Sht. No. P11)

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-21-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY	NOTED BY	

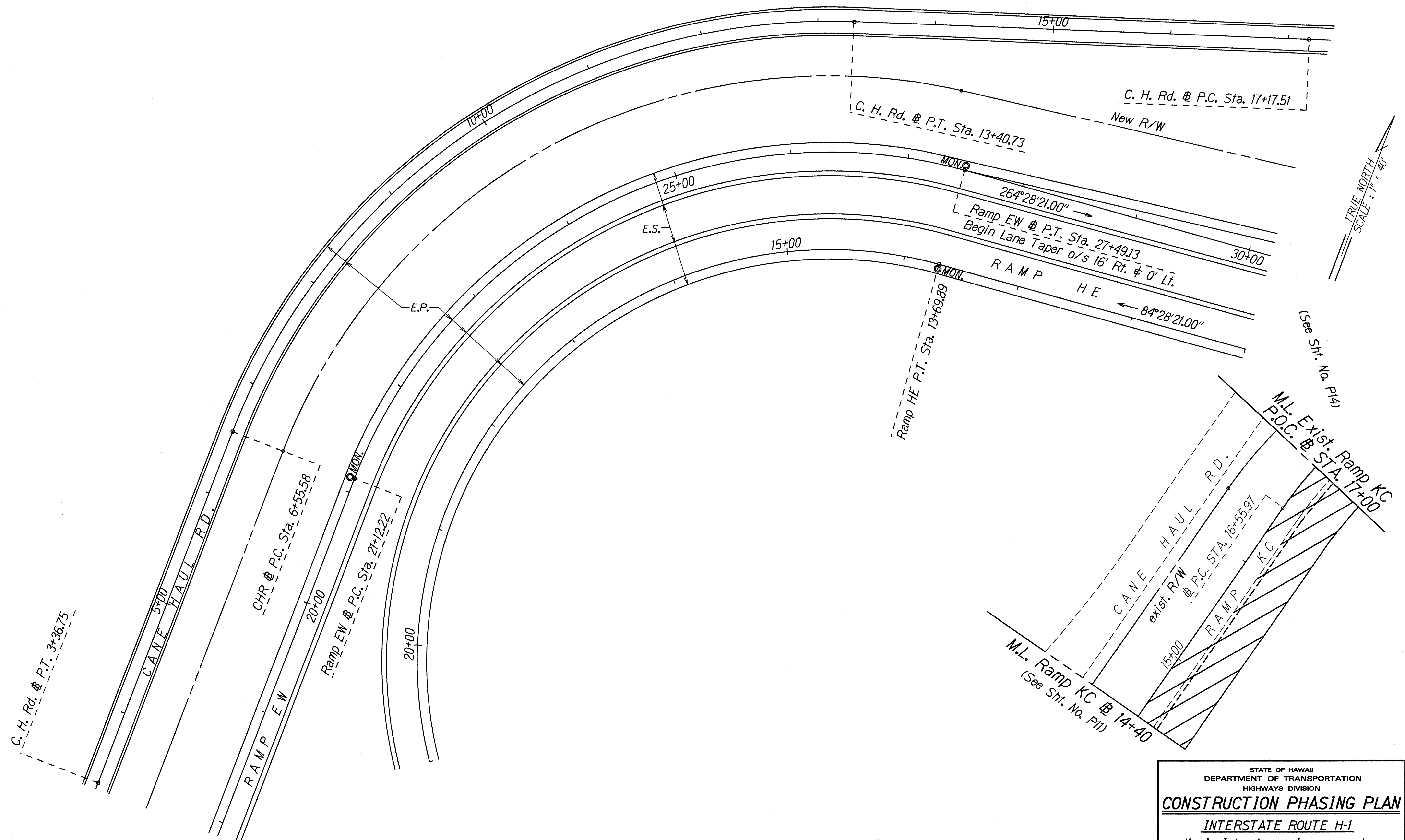
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase ID
F. A. I. Project No. 1M-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

SHEET No. P12 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	81	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10/1/97
adl/mh	DESIGNED BY	
adl/mh	QUANTITIES BY	
adl/mh	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

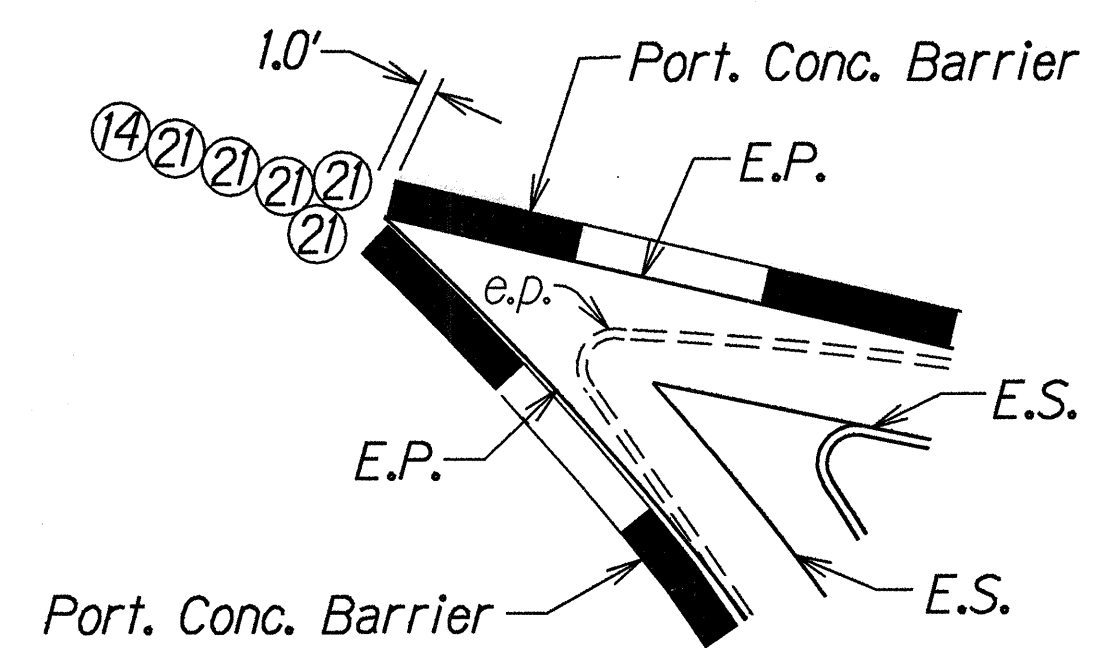
CONSTRUCTION PHASING PLAN

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

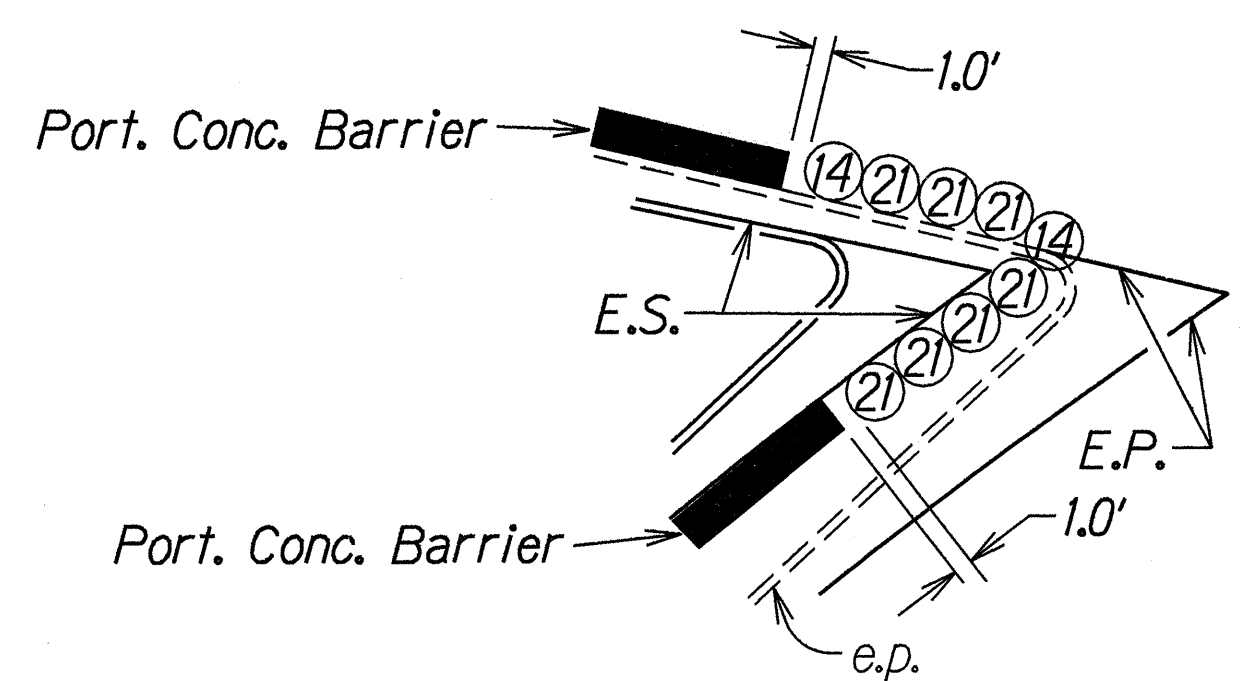
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SHEET No. P13 OF 41 SHEETS

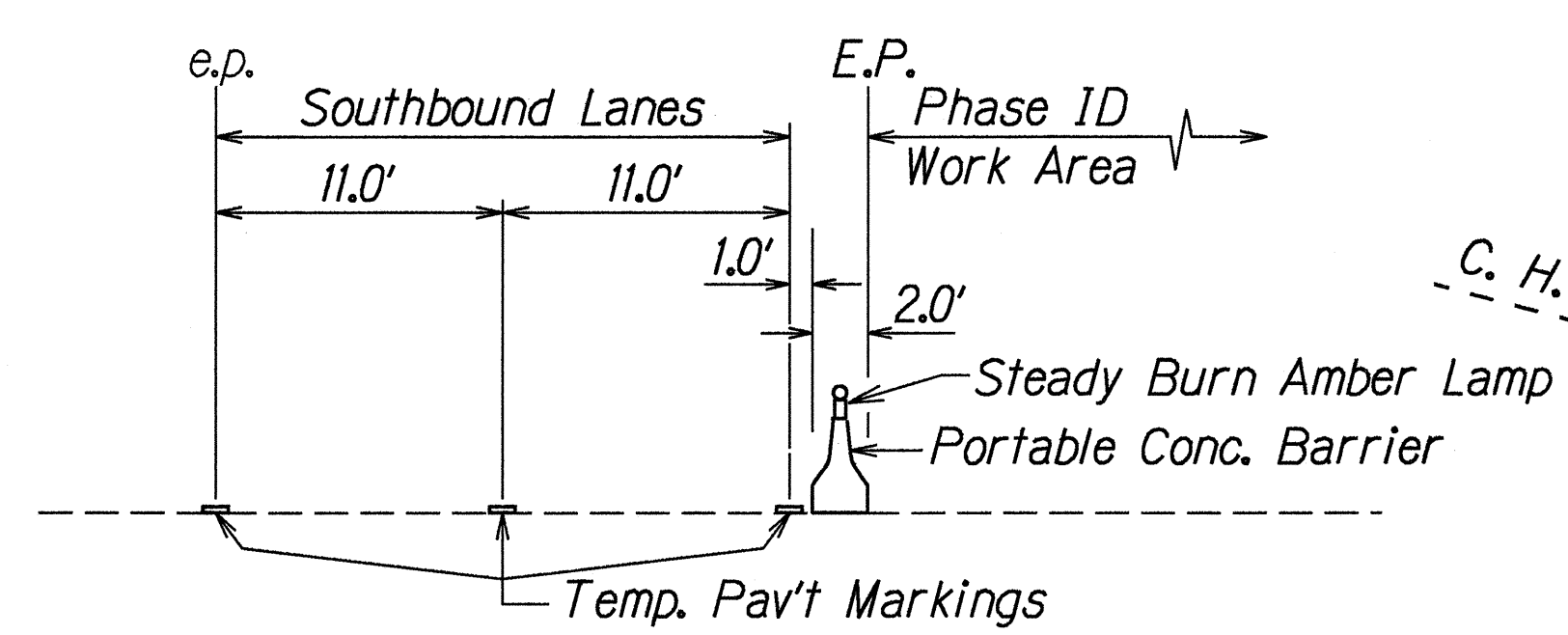
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HAWAII	HAW.	1M-HI-1(219)	1998	82	378



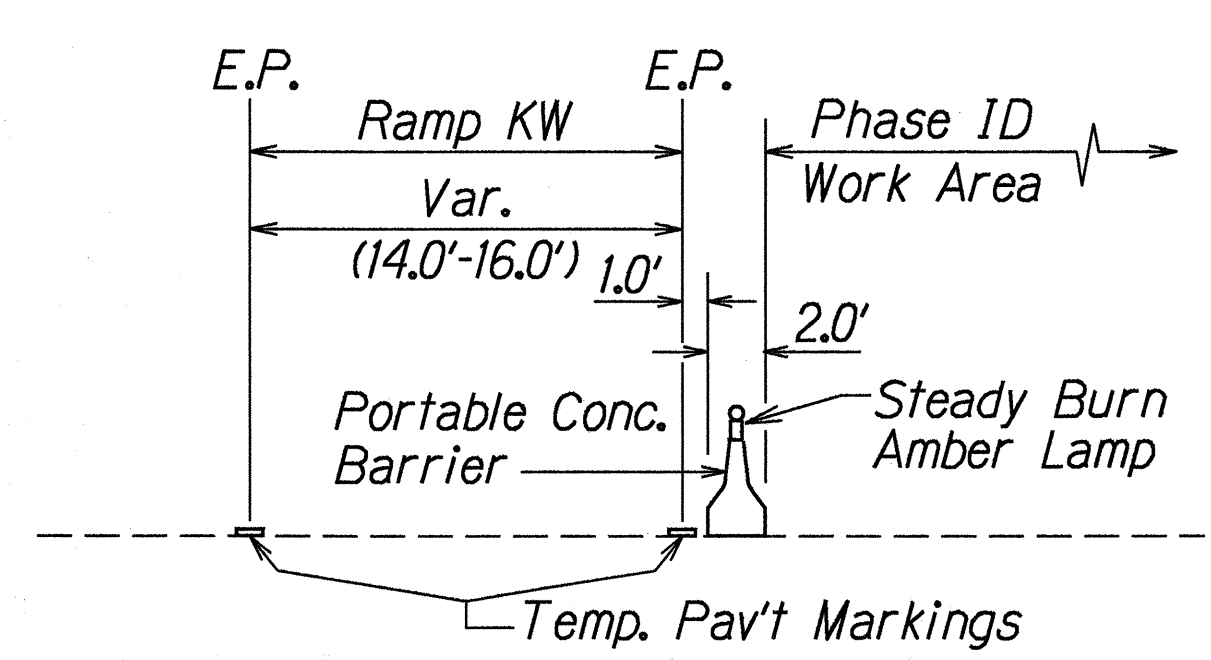
INERTIAL BARRIER SYSTEM DETAIL
 Kunia Road @ Sta. 100+28± o/s 30'± Rt.
 Not to Scale



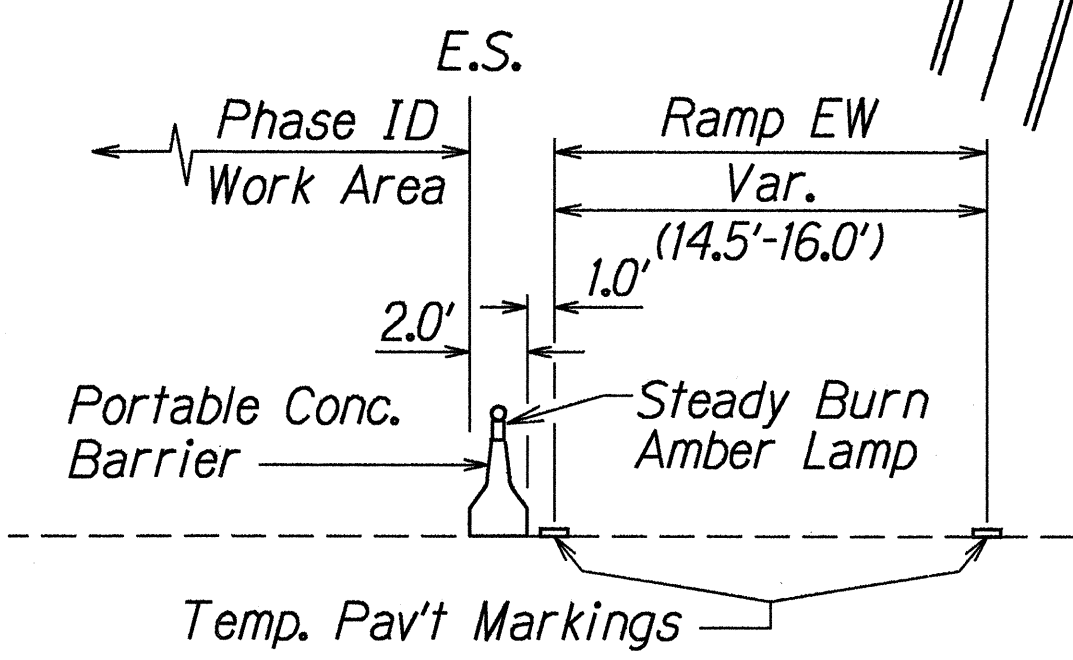
INERTIAL BARRIER SYSTEM DETAIL
 Kunia Road @ Sta. 101+92± o/s 52'± Rt.
 Scale: 1" = 10'



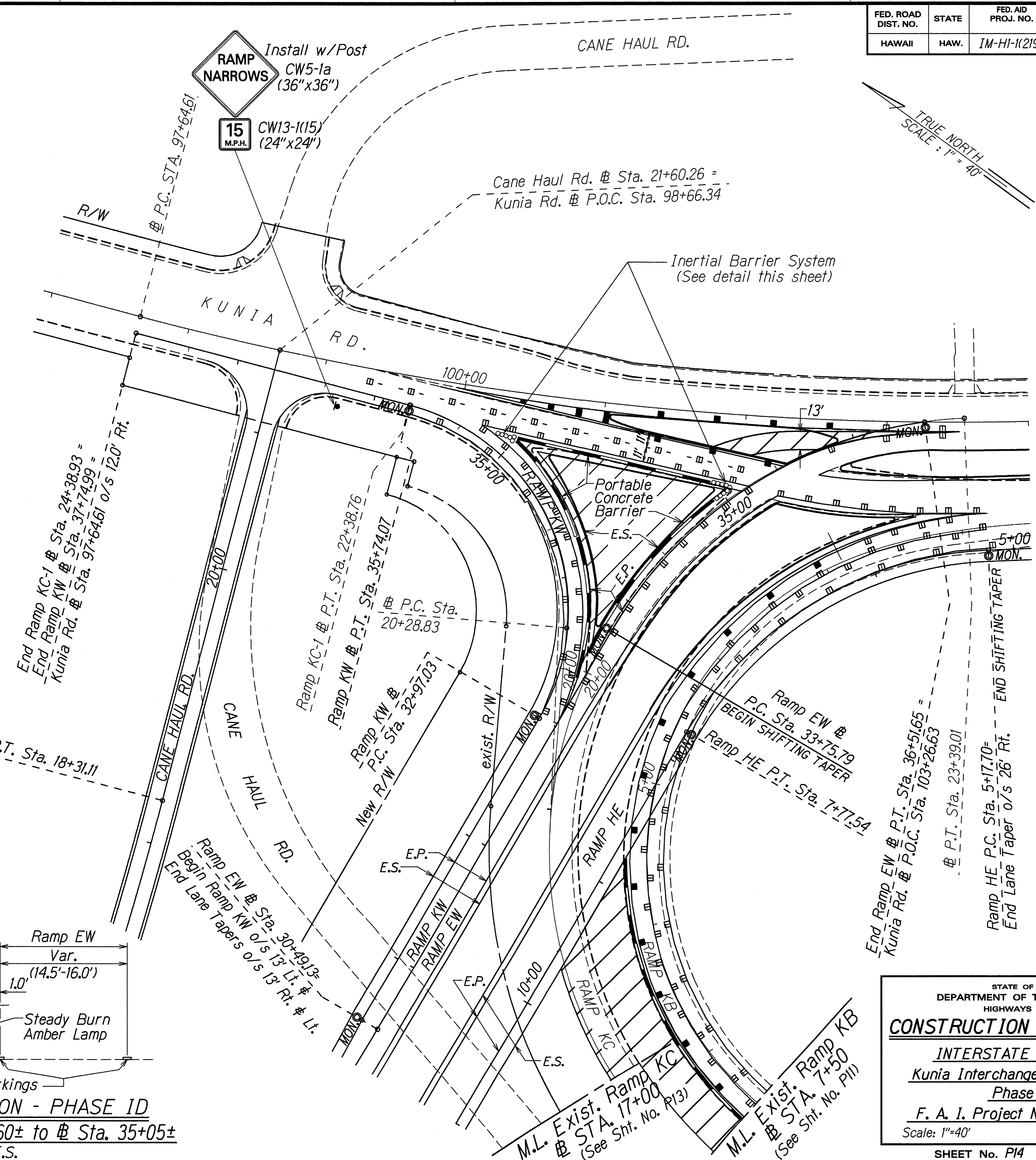
TYPICAL SECTION - PHASE ID
 Kunia Road @ Sta. 100+50± to @ Sta. 101+90±
 N.T.S.



TYPICAL SECTION - PHASE ID
 Ramp KW @ Sta. 33+60± to @ Sta. 34+95±
 N.T.S.



TYPICAL SECTION - PHASE ID
 Ramp EW @ Sta. 33+60± to @ Sta. 35+05±
 N.T.S.



STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1

Kunia Interchange Improvements

Phase ID

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

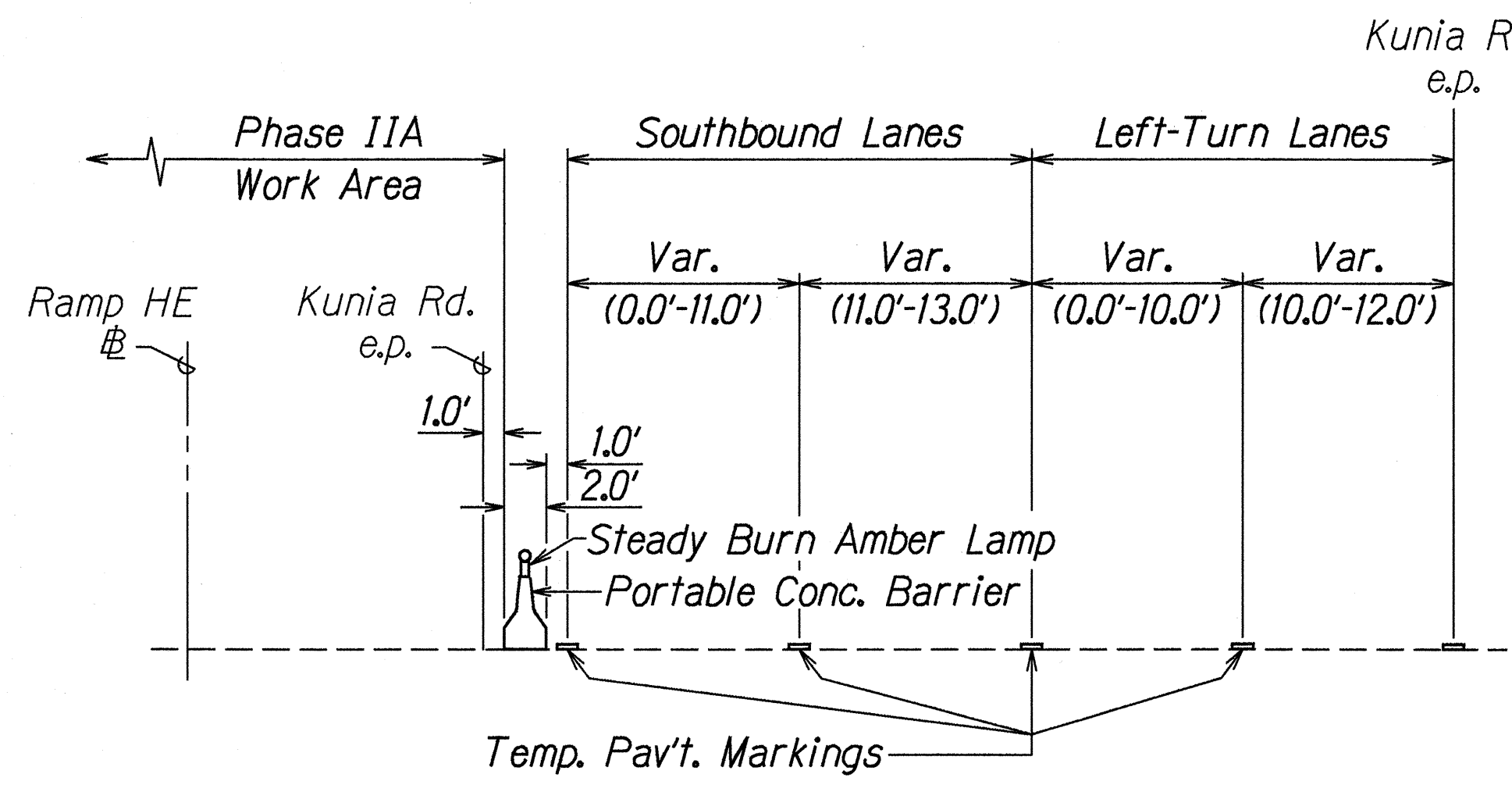
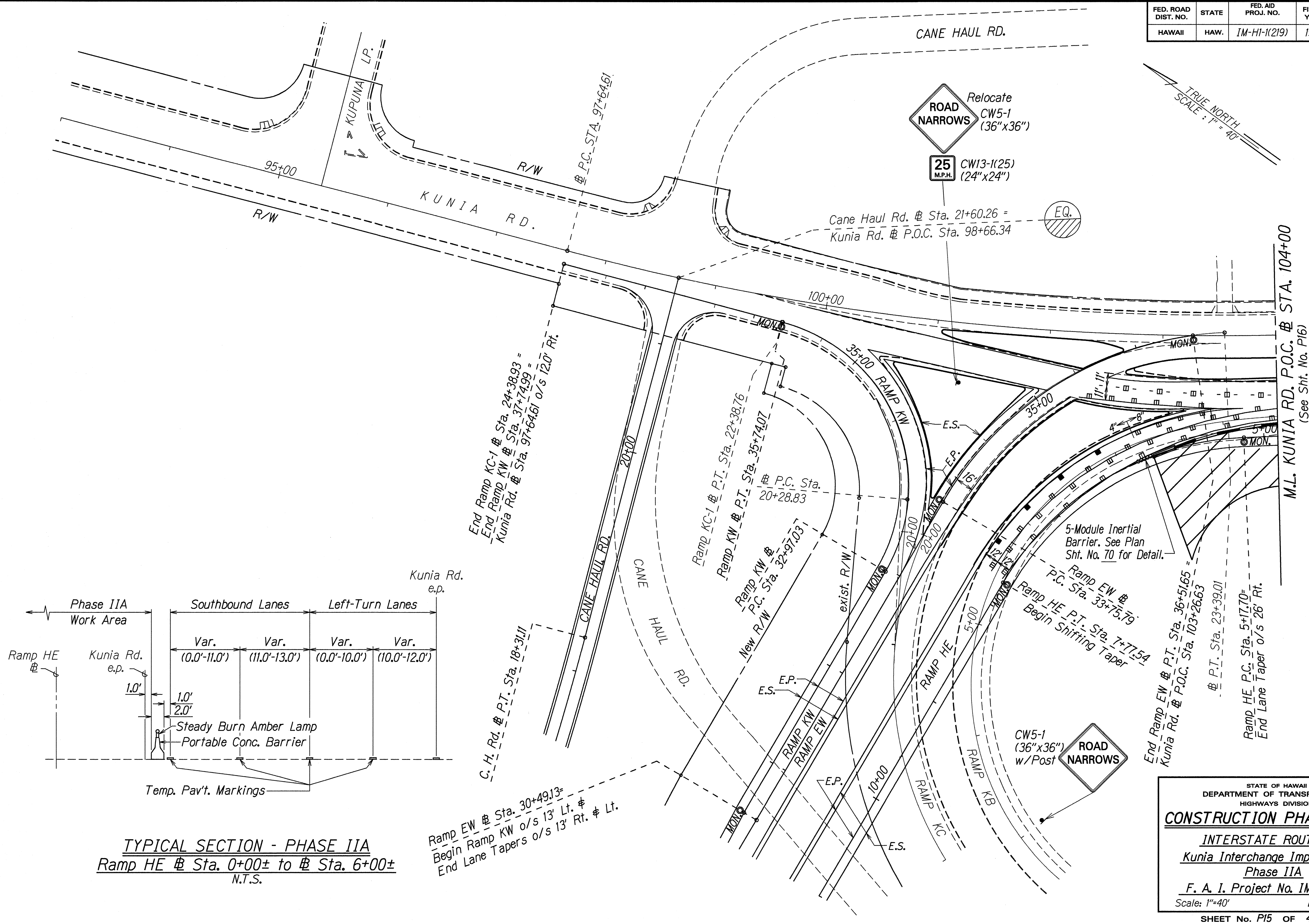
Scale: 1"=40'

Date: Oct. 1997

SHEET No. P14 OF 41 SHEETS

ORIGINAL PLAN	DATE
NOTE BOOK	10-29-97
DESIGNED BY	
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	83	378



TYPICAL SECTION - PHASE IIA
 Ramp HE @ Sta. 0+00± to Sta. 6+00±
 N.T.S.

Ramp EW @ Sta. 30+49.13±
 Begin Ramp KW o/s 13' Lt. & Lt.
 End Lane Tapers o/s 13' Rt. & Lt.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1

Kunia Interchange Improvements

Phase IIA

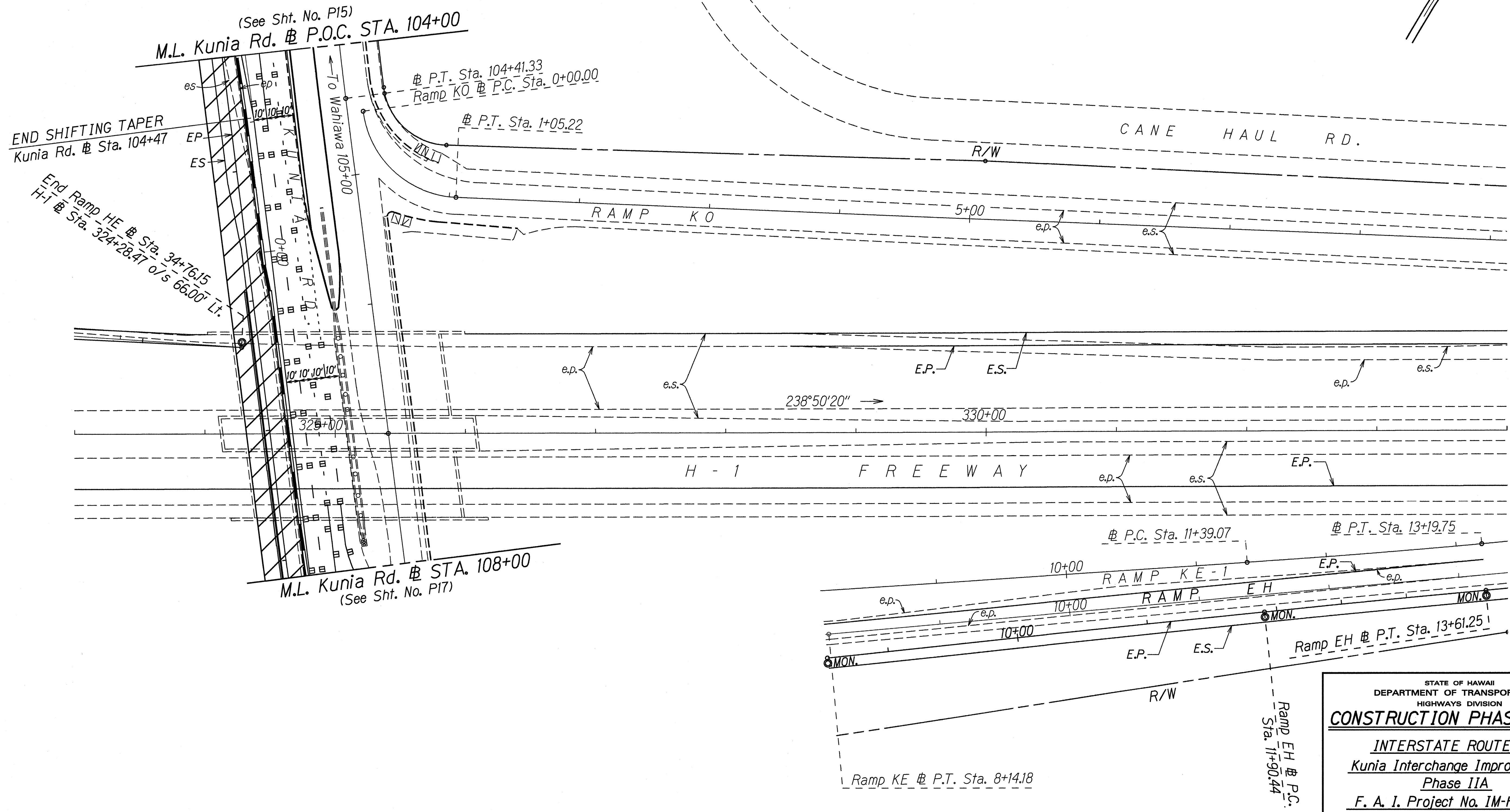
F. A. I. Project No. IM-HI-1(219)

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

SHEET No. P15 OF 41 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	10-29-97
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	
BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	84	378



ORIGINAL PLAN	DATE
NOTED	10/21/97
DESIGNED BY	Wang, M.T.
QUANTITIES BY	Wang, M.T.
CHECKED BY	Wang, M.T.

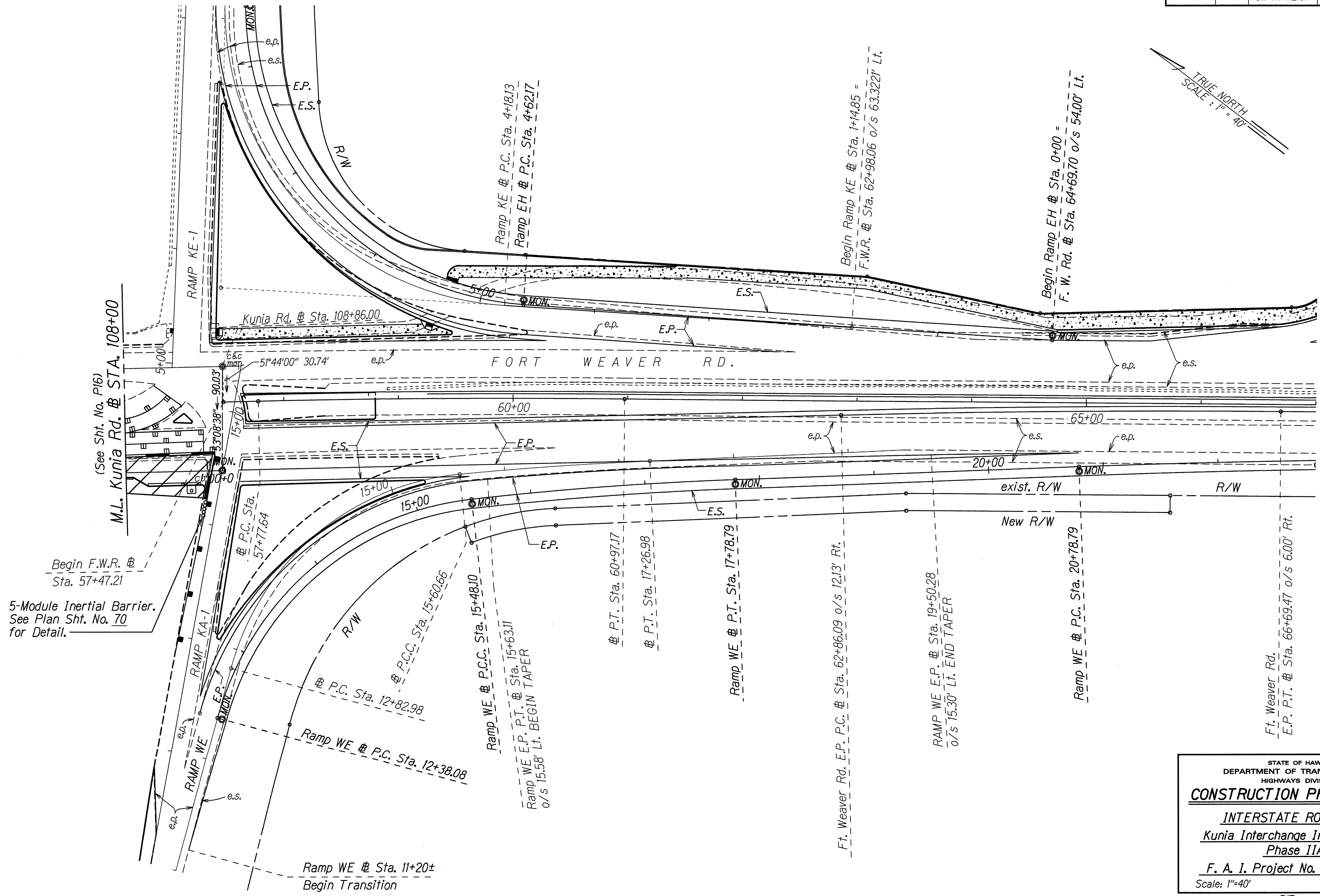
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIA
F. A. I. Project No. 1M-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

SHEET No. P16 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	85	378



TRUE NORTH
SCALE: 1" = 40'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-21-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY	NOTED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

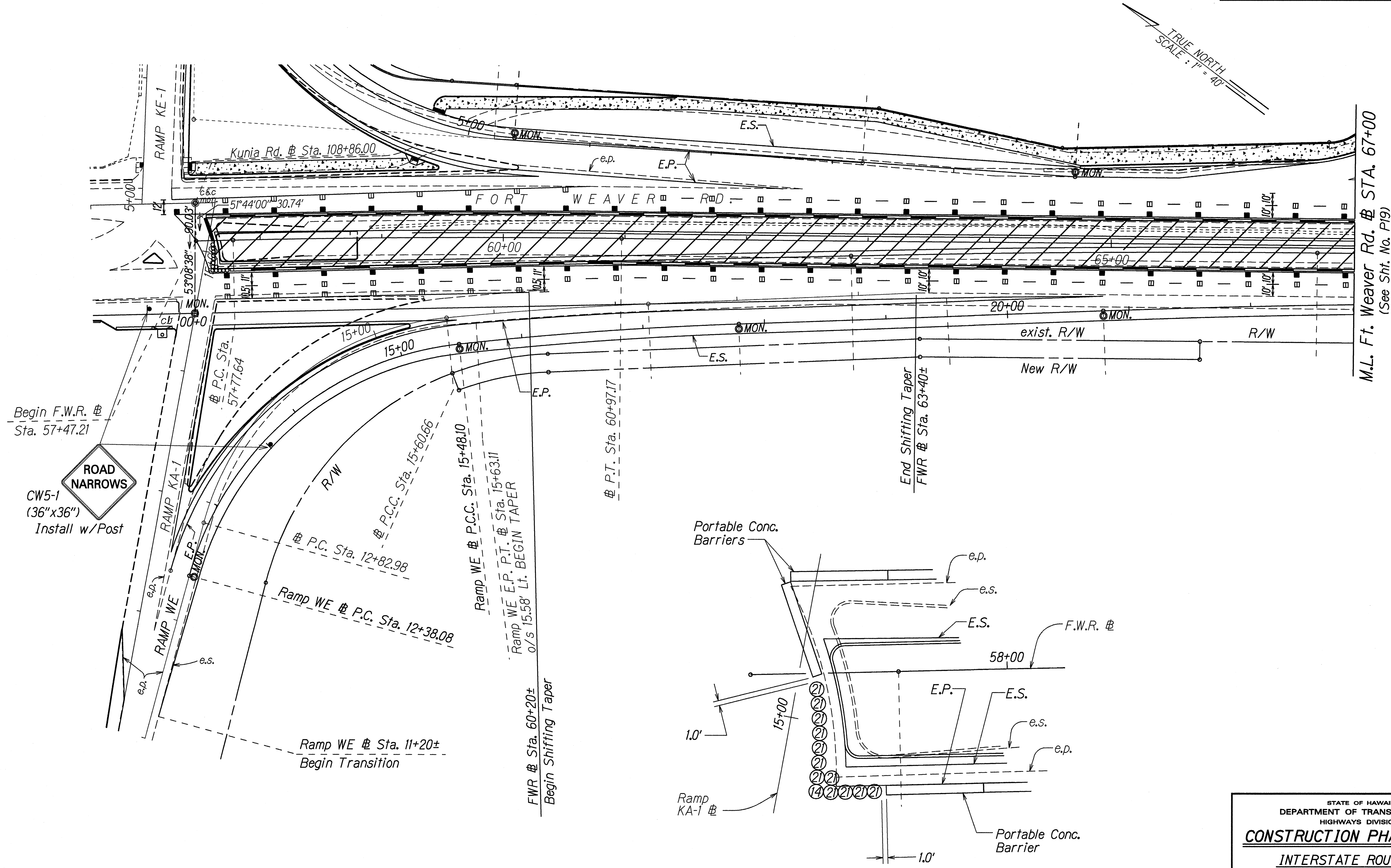
CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIA

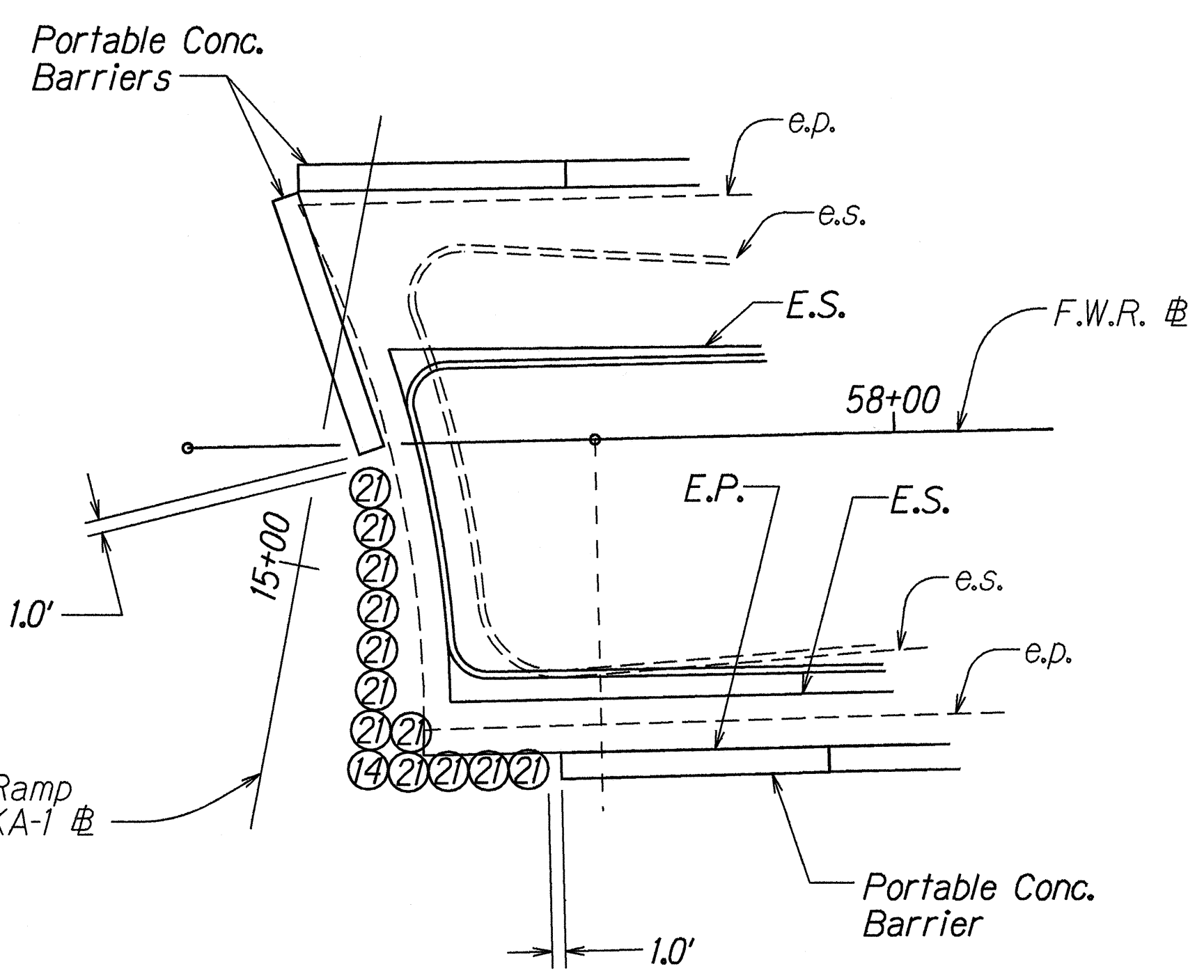
F. A. I. Project No. IM-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

SHEET No. P17 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-K(219)	1998	86	378



TRUE NORTH
SCALE : 1" = 40'



INERTIAL BARRIER SYSTEM DETAIL
Fort Weaver Rd. Sta. 57+60± o/s 24± Rt.
Scale : 1" = 10'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

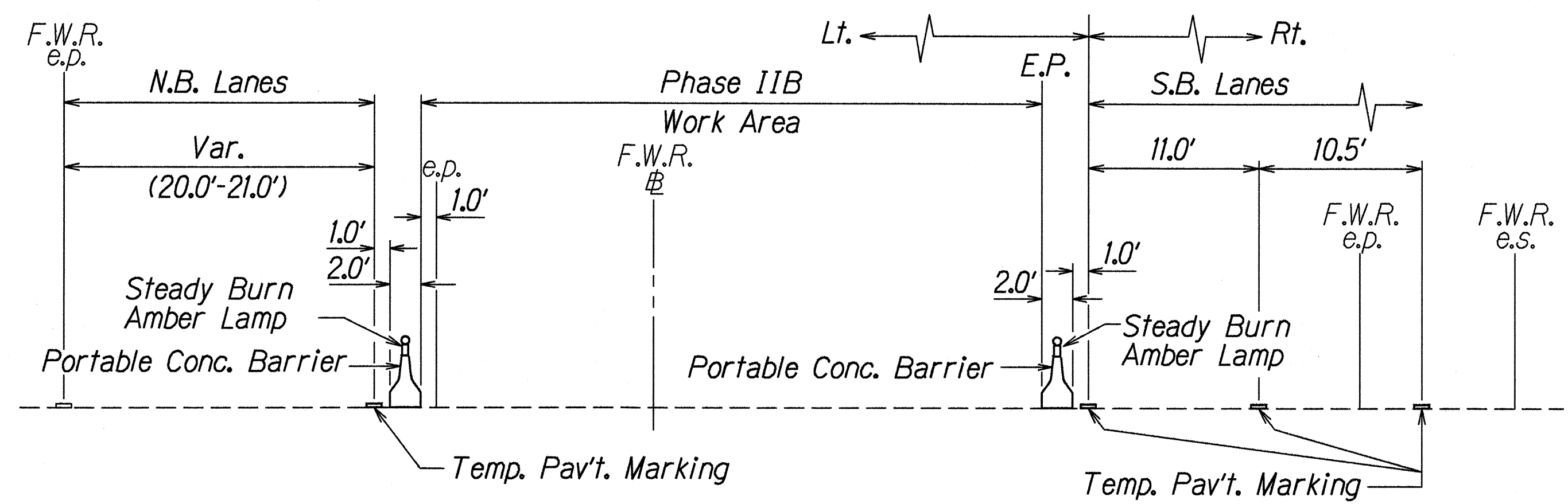
INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIB

F. A. I. Project No. 1M-HI-K(219)
Scale: 1"=40' Date: Oct. 1997

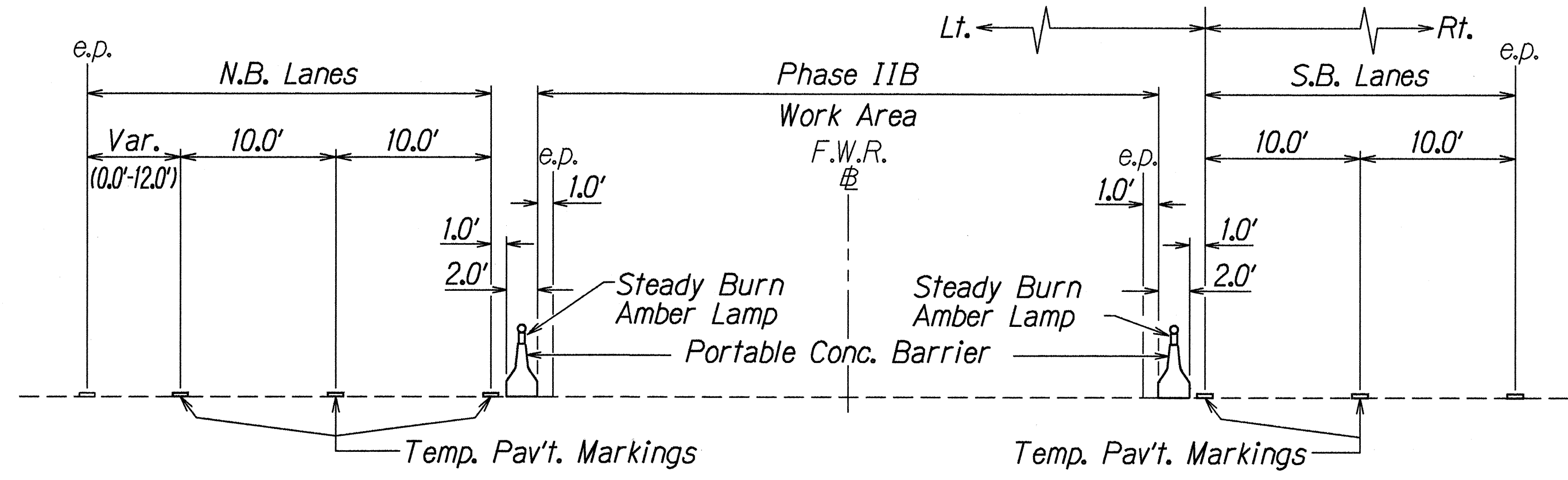
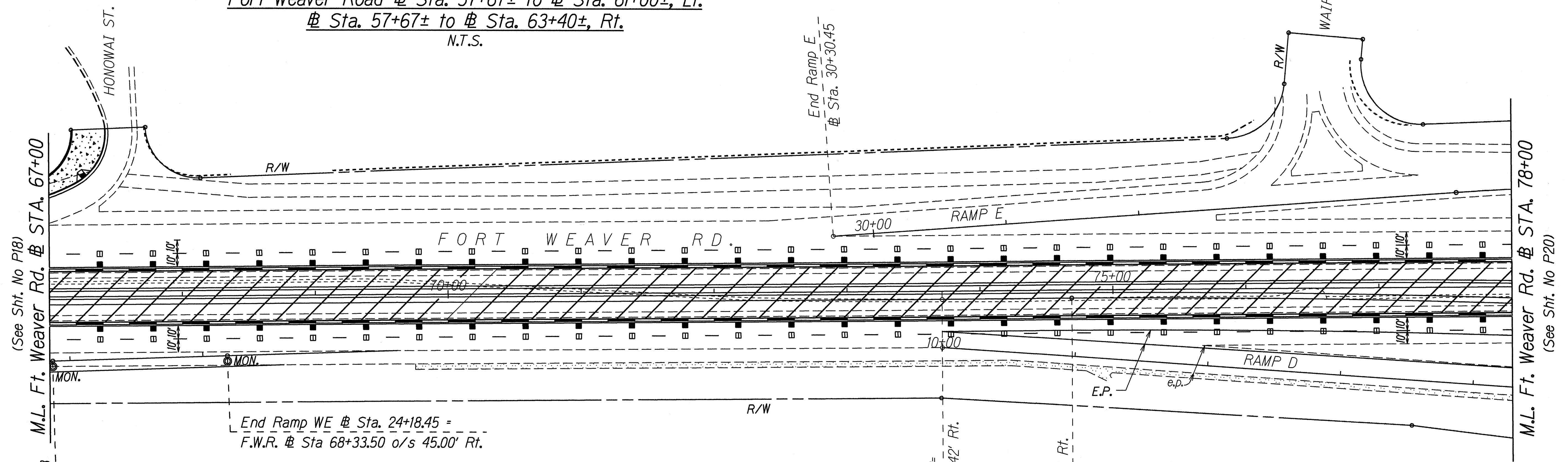
SHEET No. P18 OF 41 SHEETS

ORIGINAL PLAN	DATE
NOTE BOOK	10-22-97
DESIGNED BY	P. Wang / MT
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	87	378



TYPICAL SECTION - PHASE IIB
Fort Weaver Road # Sta. 57+67± to # Sta. 61+00±, Lt.
Sta. 57+67± to # Sta. 63+40±, Rt.
N.T.S.



TYPICAL SECTION - PHASE IIB
Fort Weaver Road # Sta. 61+00± to # Sta. 86+12±, Lt.
Sta. 63+40± to # Sta. 86+12±, Rt.
N.T.S.

SURVEY PLOTTED BY	DATE
DRAWN BY	10-22-97
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

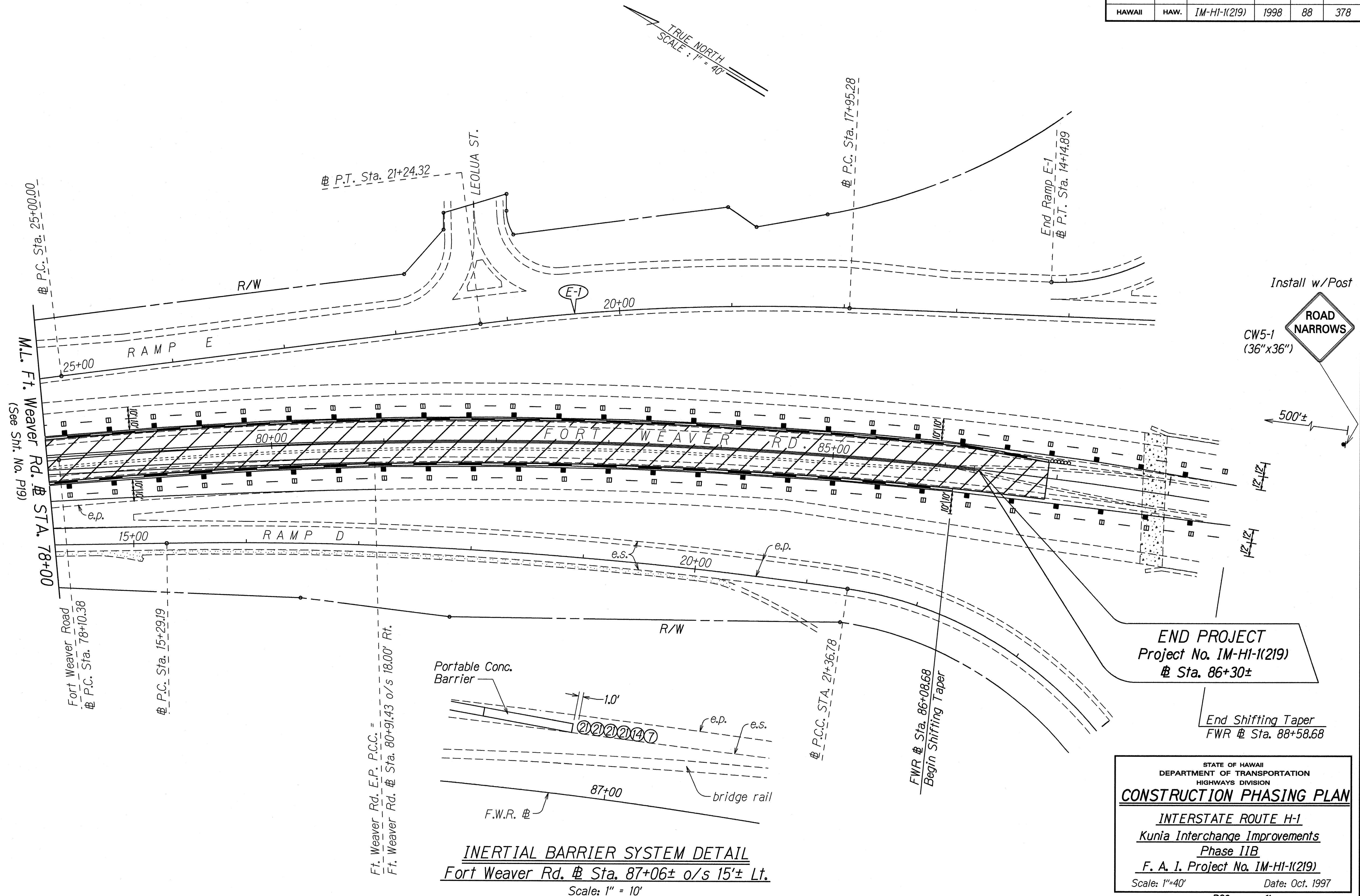
CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIB

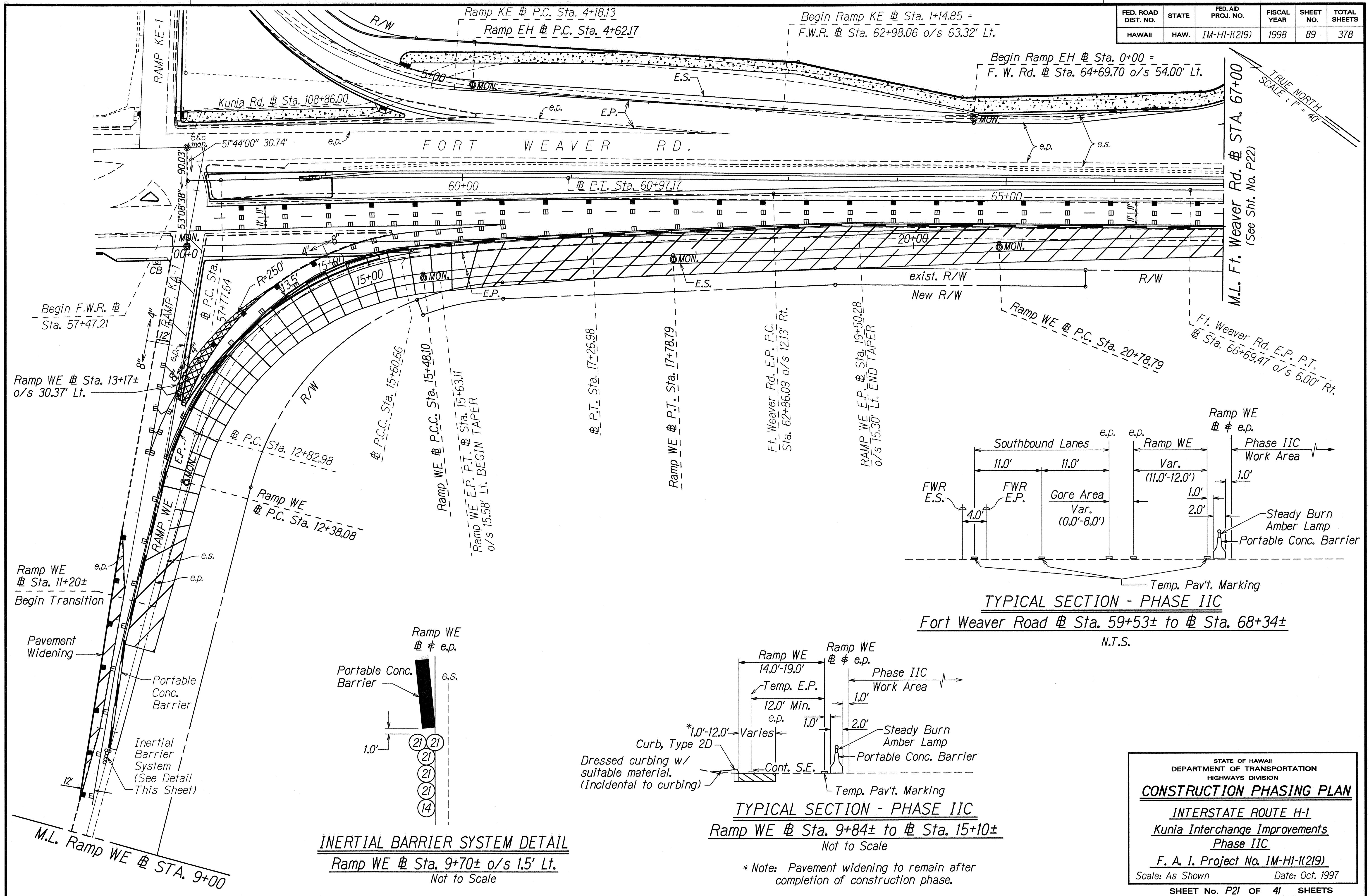
F. A. I. Project No. 1M-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

SHEET No. P19 OF 41 SHEETS

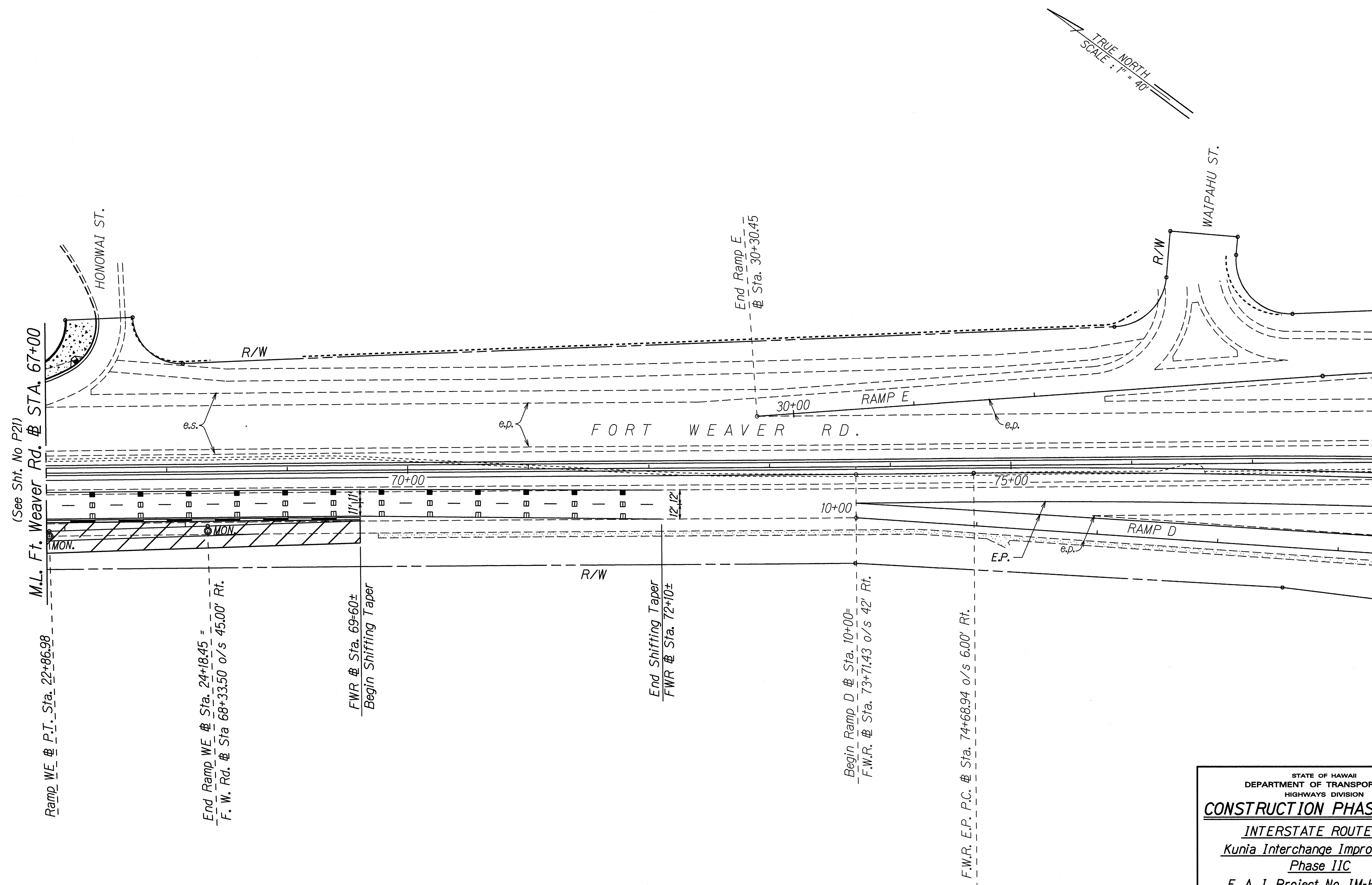
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-H1-1(219)	1998	88	378



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	89	378



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	90	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-22-97
QUANTITIES BY	TRACED BY	
CHECKED BY	IN CHARGE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

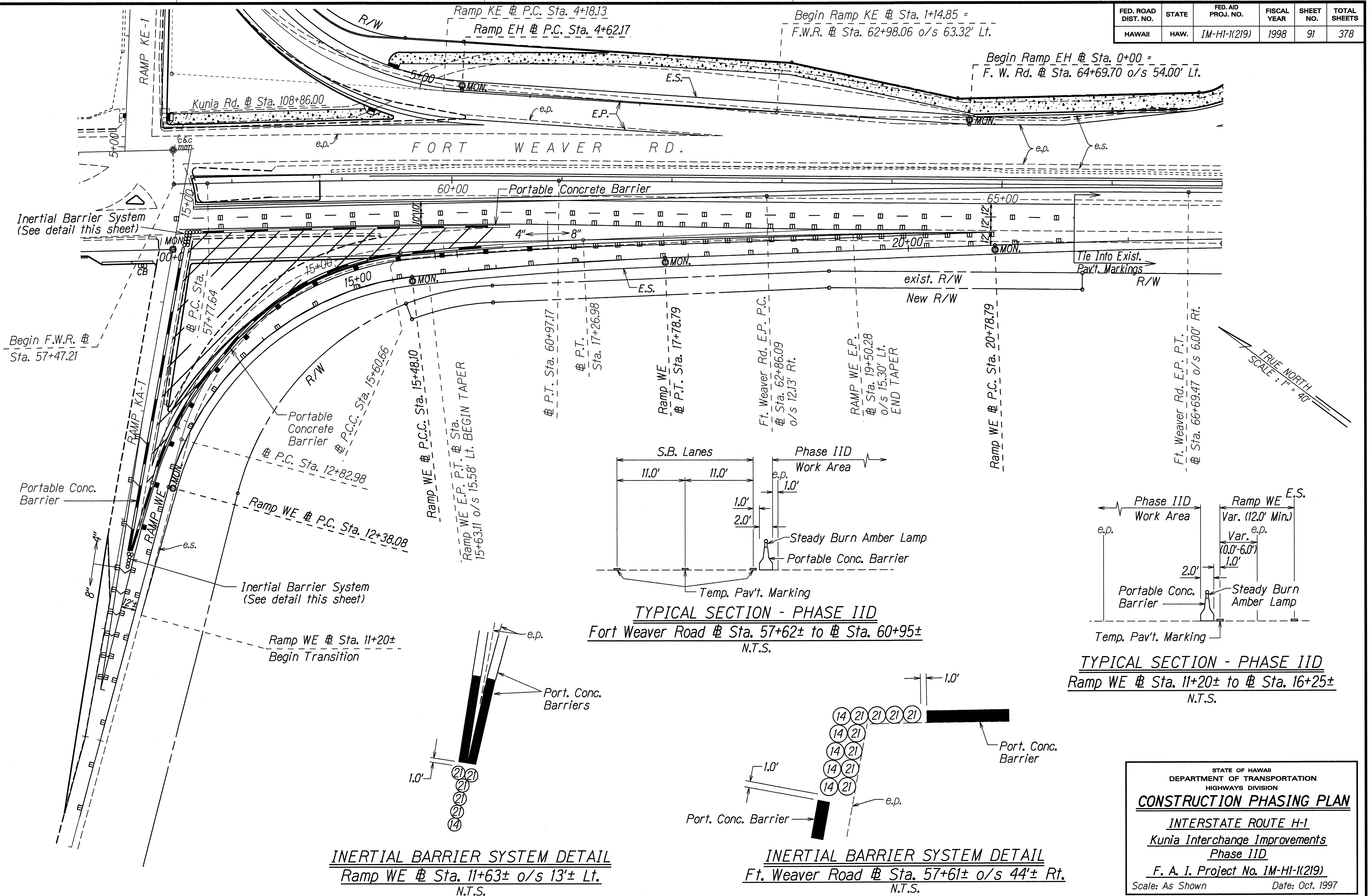
CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIC

F. A. I. Project No. IM-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

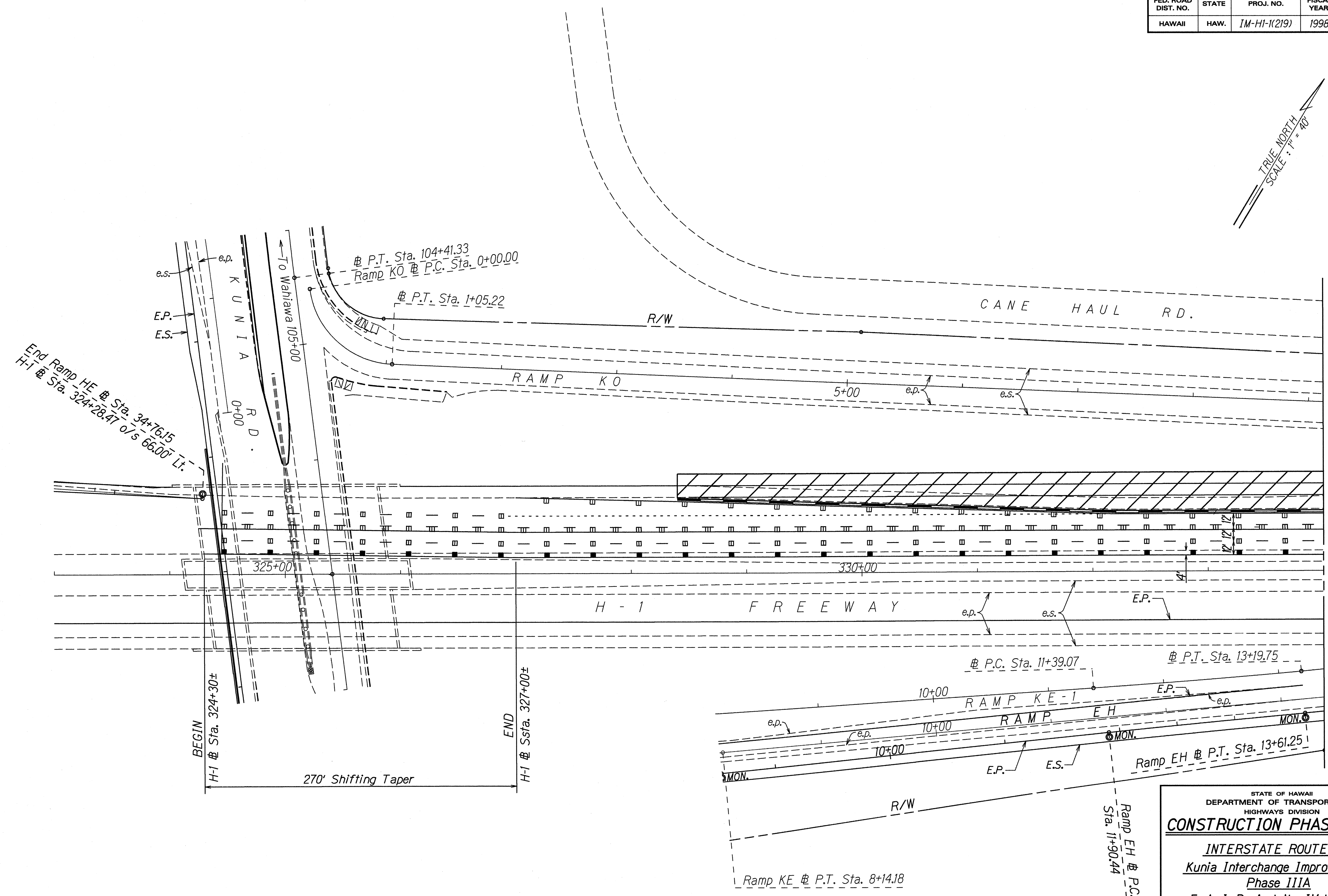
SHEET No. P22 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	91	378



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	92	378

TRUE NORTH
SCALE: 1"=40'



ML H-1 STA. 334+00
(See Sht. No. P25)

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-22-97
DESIGNED BY	DESIGNED BY	
QUANTITIES BY	QUANTITIES BY	
CHECKED BY	CHECKED BY	

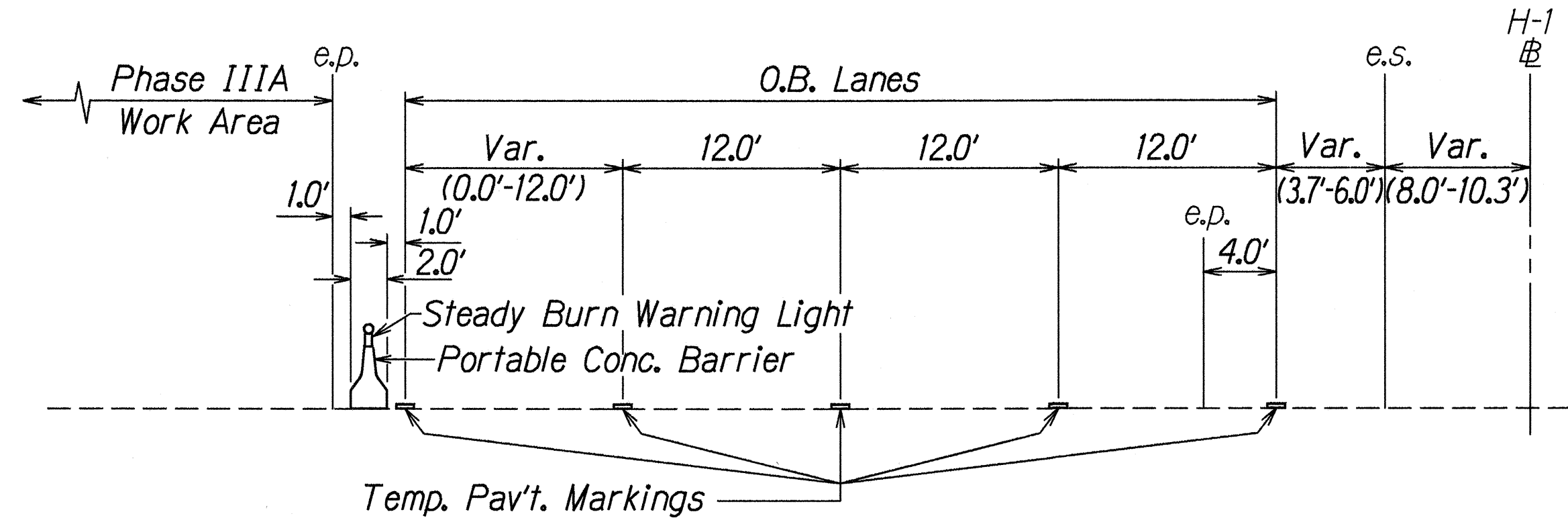
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIIA
F. A. I. Project No. IM-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

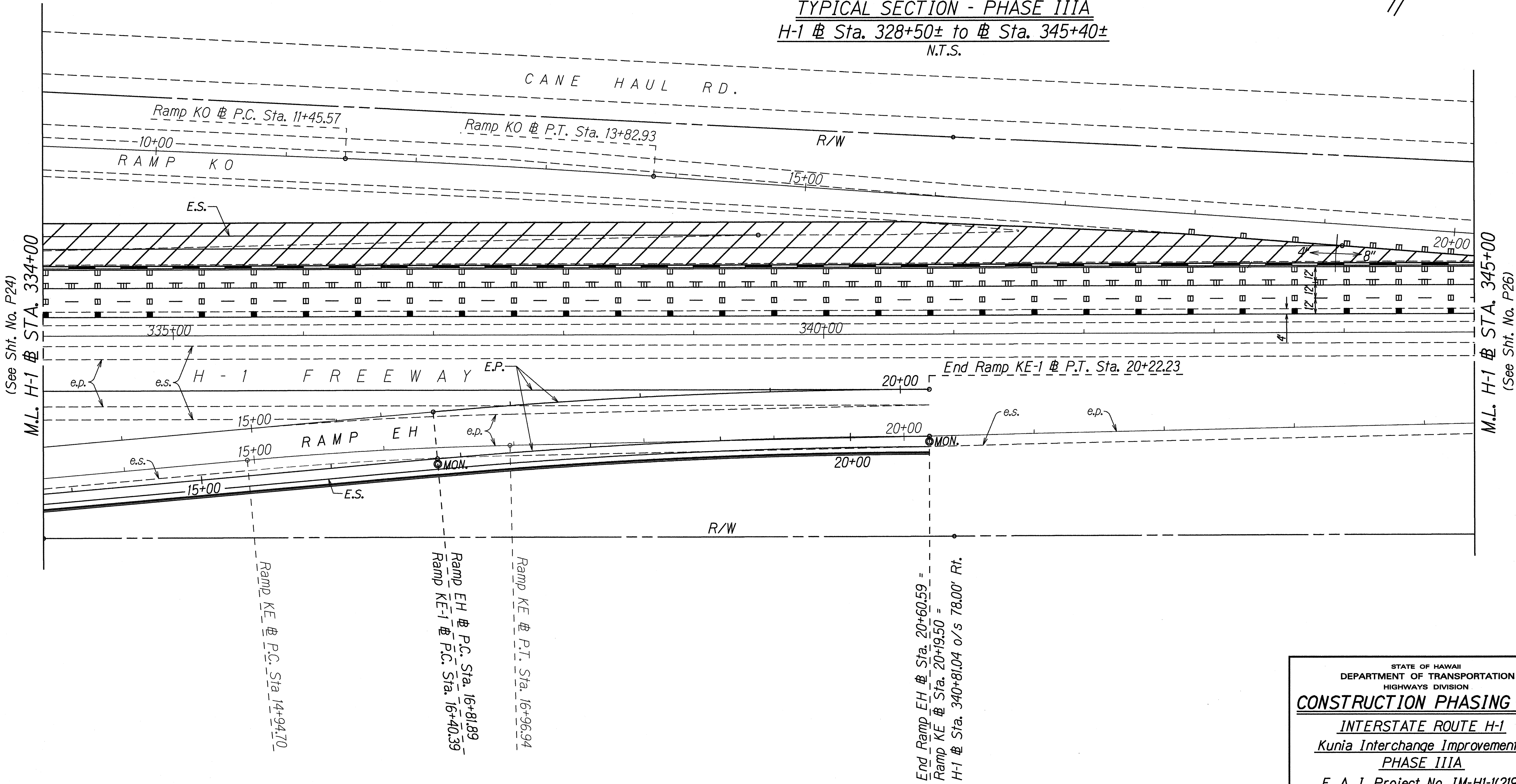
SHEET No. P24 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	93	378



TYPICAL SECTION - PHASE IIIA
H-1 @ Sta. 328+50± to @ Sta. 345+40±
N.T.S.

TRUE NORTH
SCALE: 1" = 40'



(See Sht. No. P24)
M.L. H-1 @ STA. 334+00

M.L. H-1 @ STA. 345+00
(See Sht. No. P26)

ORIGINAL PLAN	DATE
NOTED BY	10-22-97
DESIGNED BY	10-22-97
CHECKED BY	10-22-97

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

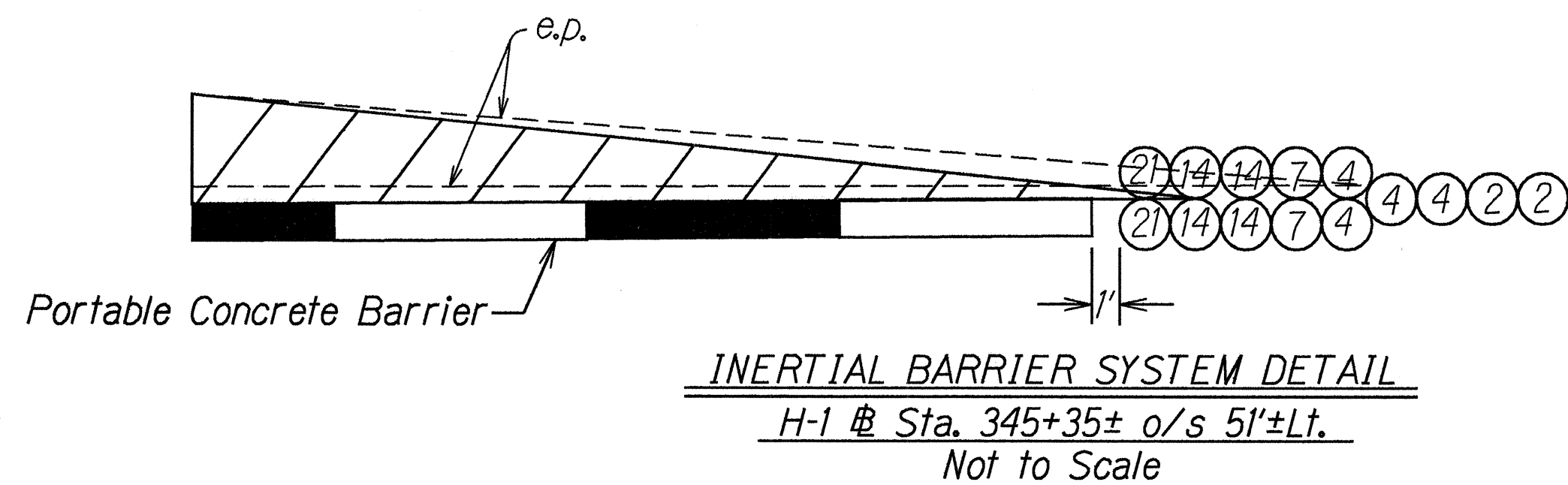
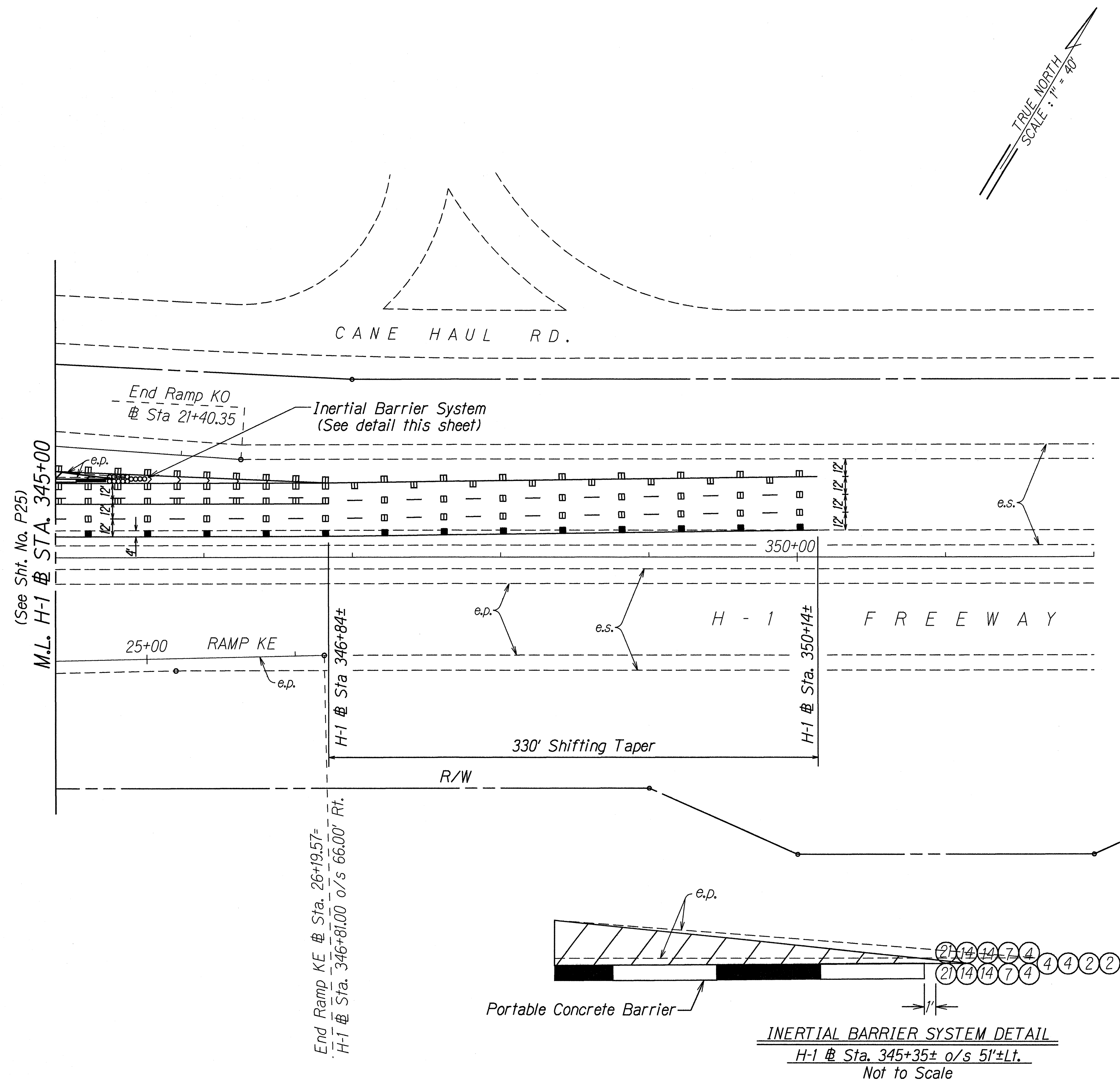
CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
PHASE IIIA

F. A. I. Project No. 1M-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

SHEET No. P25 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	94	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10/22/97
DESIGNED BY	10/22/97	
QUANTITIES BY		
CHECKED BY		

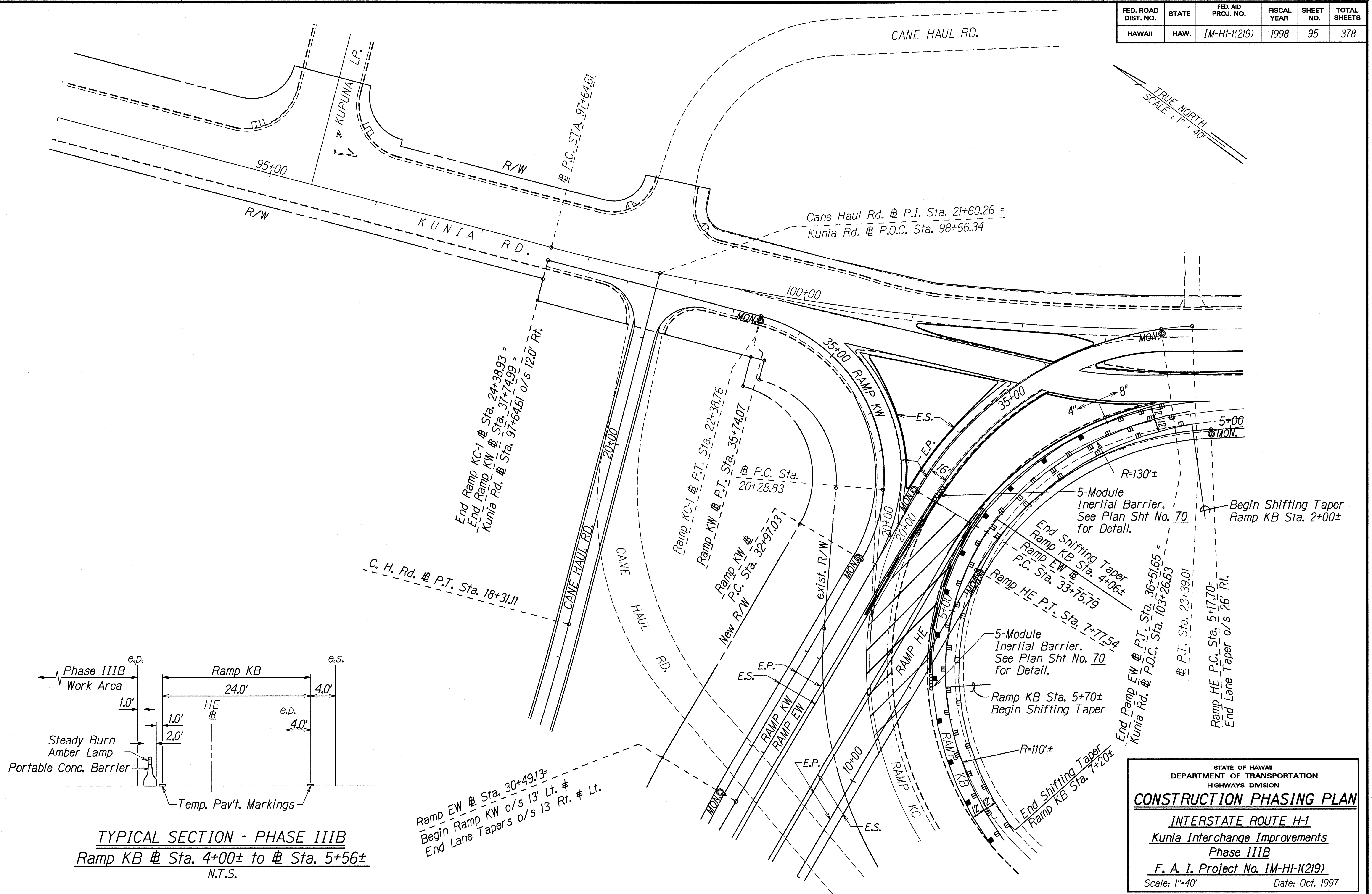
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIIA
F. A. I. Project No. IM-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

SHEET No. P26 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	95	378



TYPICAL SECTION - PHASE IIIB
Ramp KB @ Sta. 4+00± to @ Sta. 5+56±
N.T.S.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

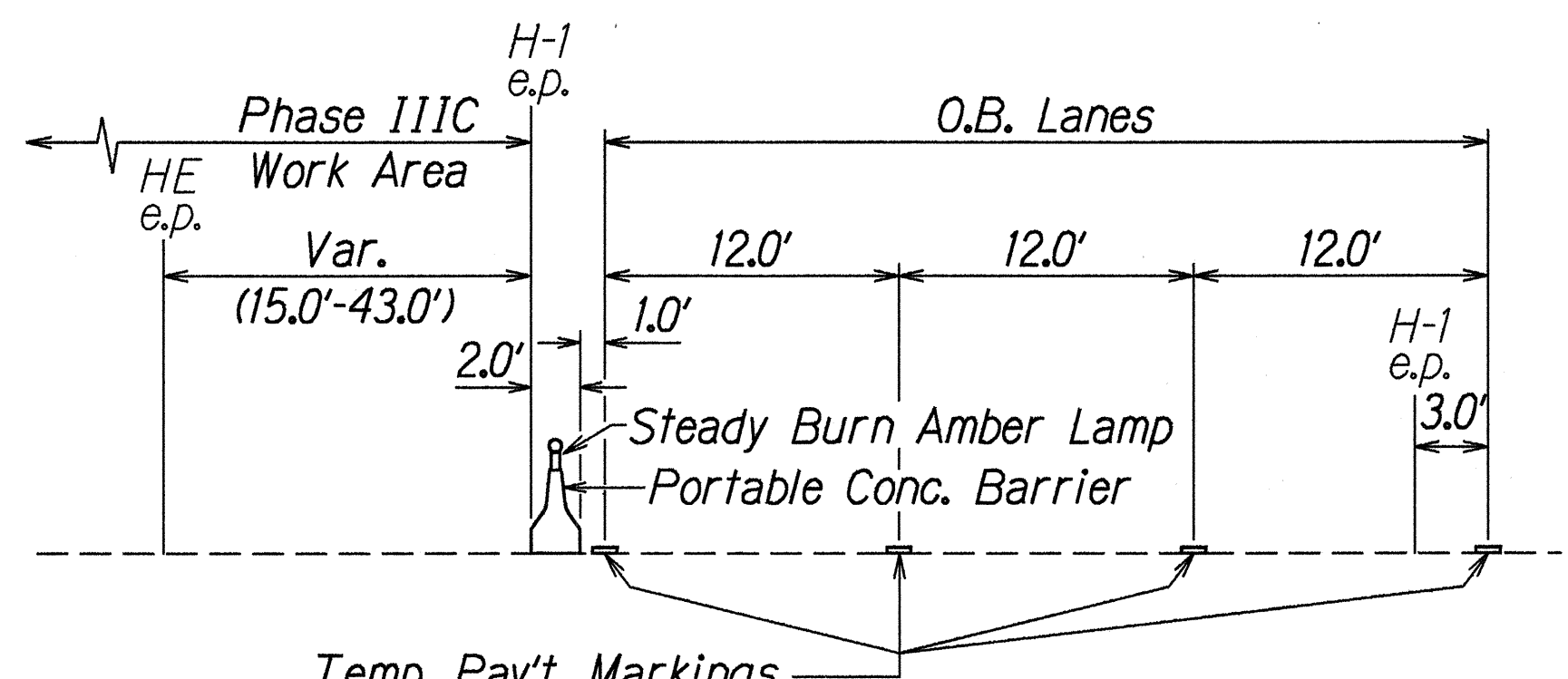
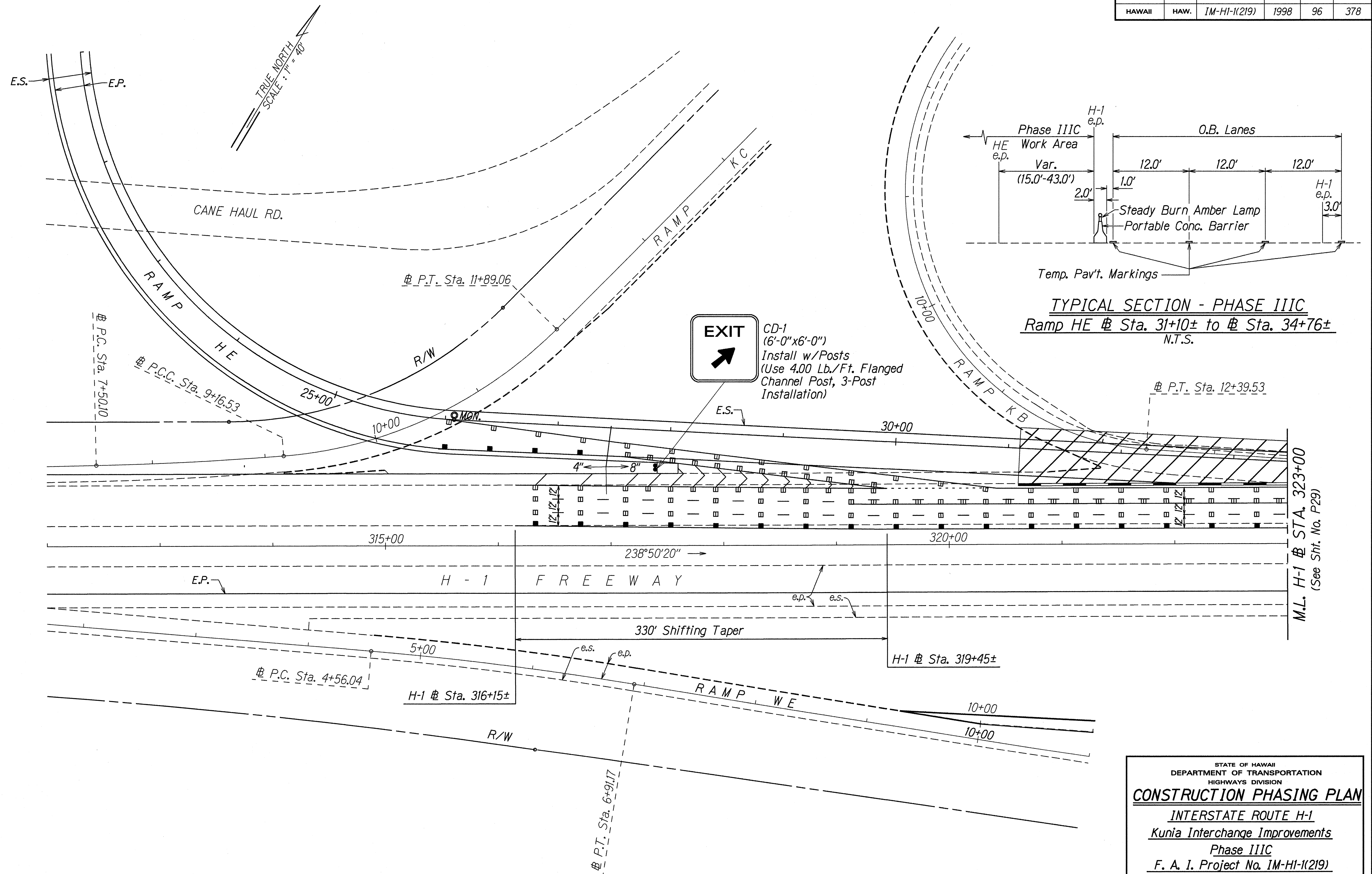
CONSTRUCTION PHASING PLAN

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

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

SHEET No. ***P27*** OF ***41*** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	96	378



TYPICAL SECTION - PHASE IIIC
 Ramp HE # Sta. 31+10± to # Sta. 34+76±
 N.T.S.

M.L. H-1 # STA. 323+00
 (See Sht. No. P29)

SURVEY PLOTTED BY	DATE
DRAWN BY	10-22-97
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

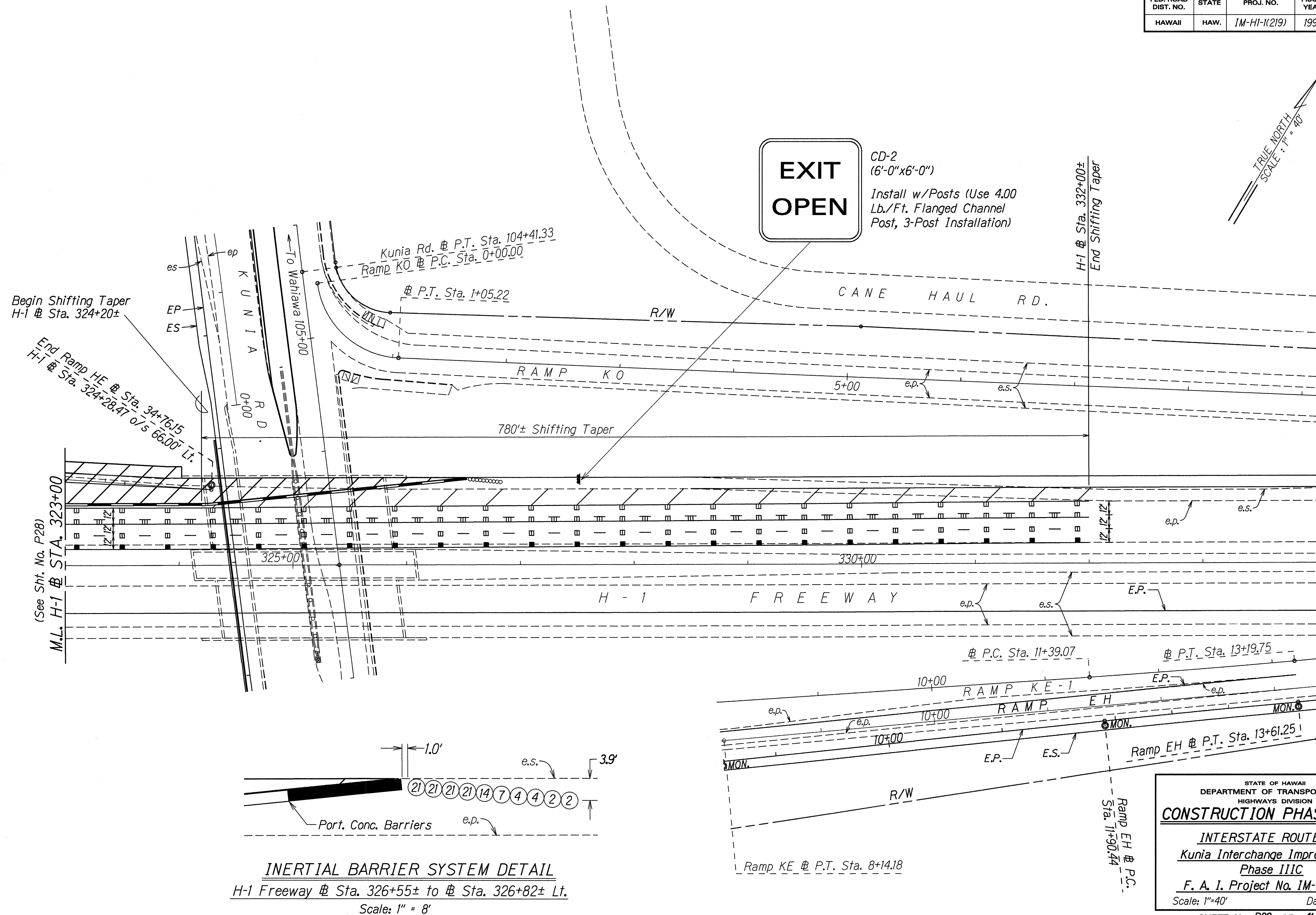
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

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

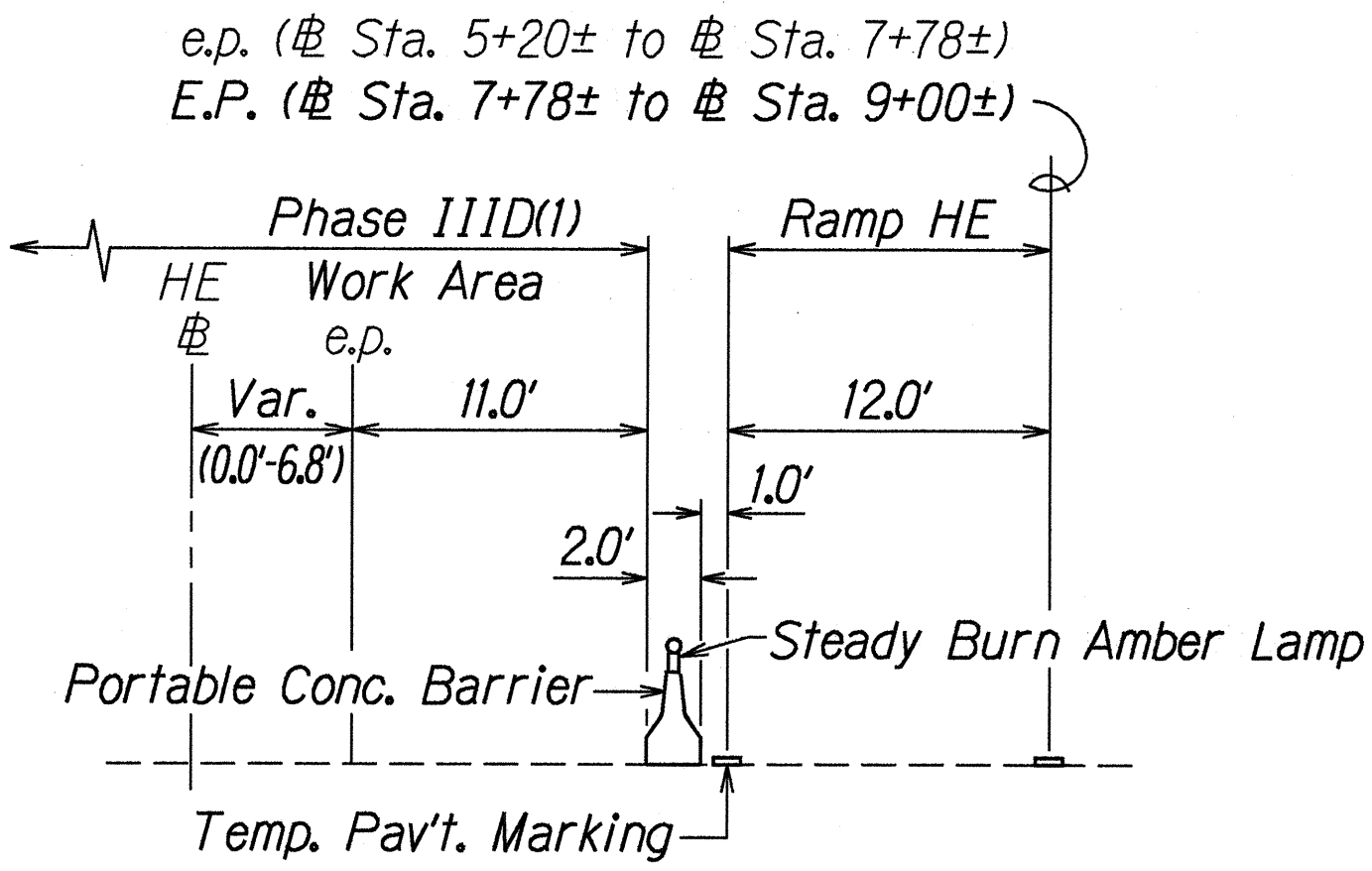
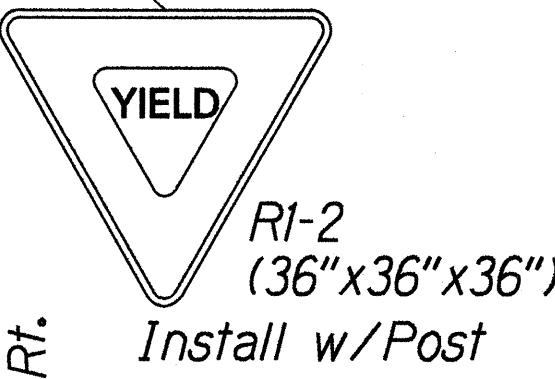
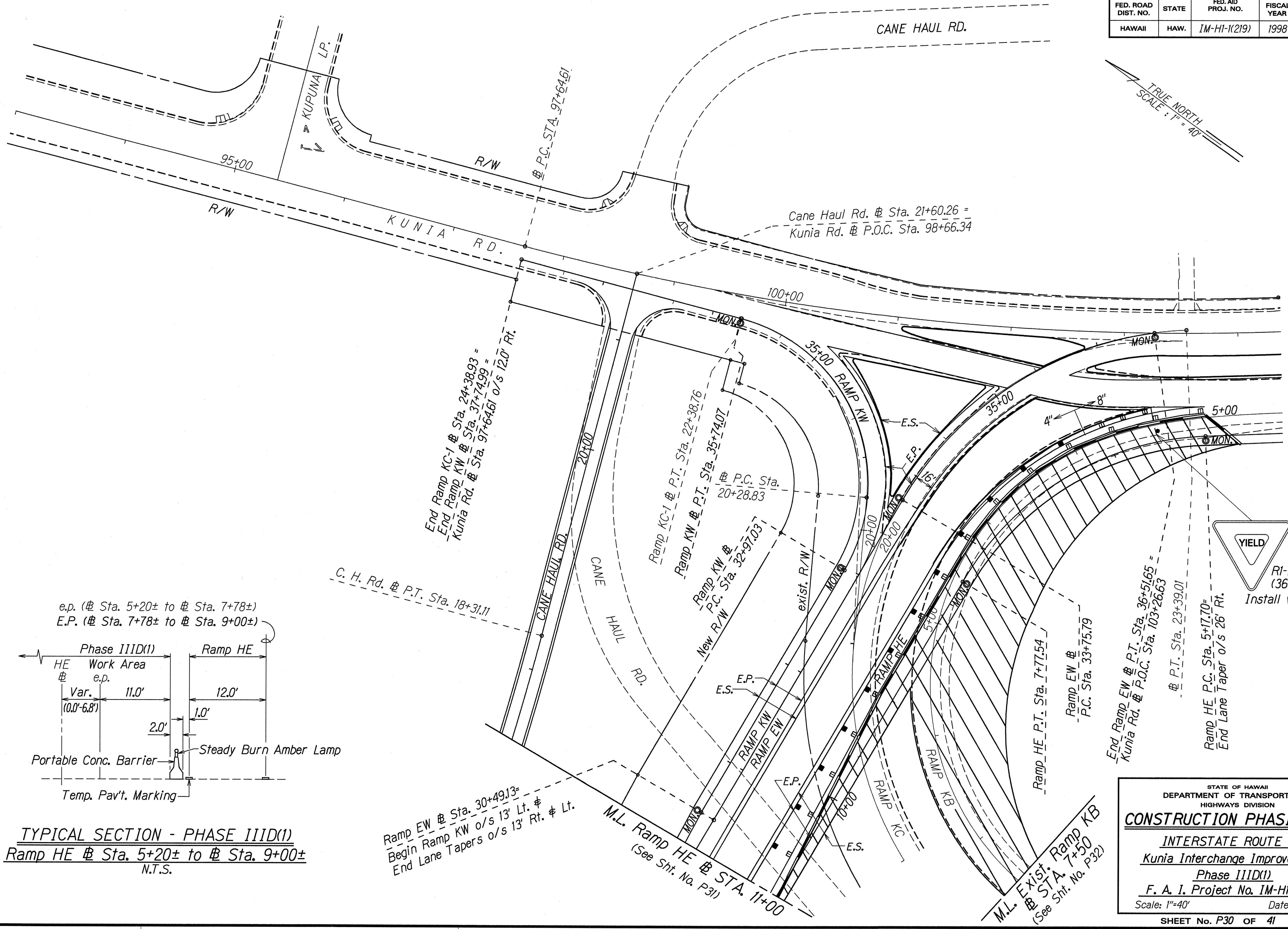
Scale: 1"=40' Date: Oct. 1997

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	97	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-22-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY	NOTED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	98	378



TYPICAL SECTION - PHASE IIID(1)
 Ramp HE Sta. 5+20± to Sta. 9+00±
 N.T.S.

Ramp EW Sta. 30+49.13±
 Begin Ramp KW o/s 13' Lt. & Lt.
 End Lane Tapers o/s 13' Rt. & Lt.

M.L. Ramp HE Sta. 11+00
 (See Sht. No. P31)

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

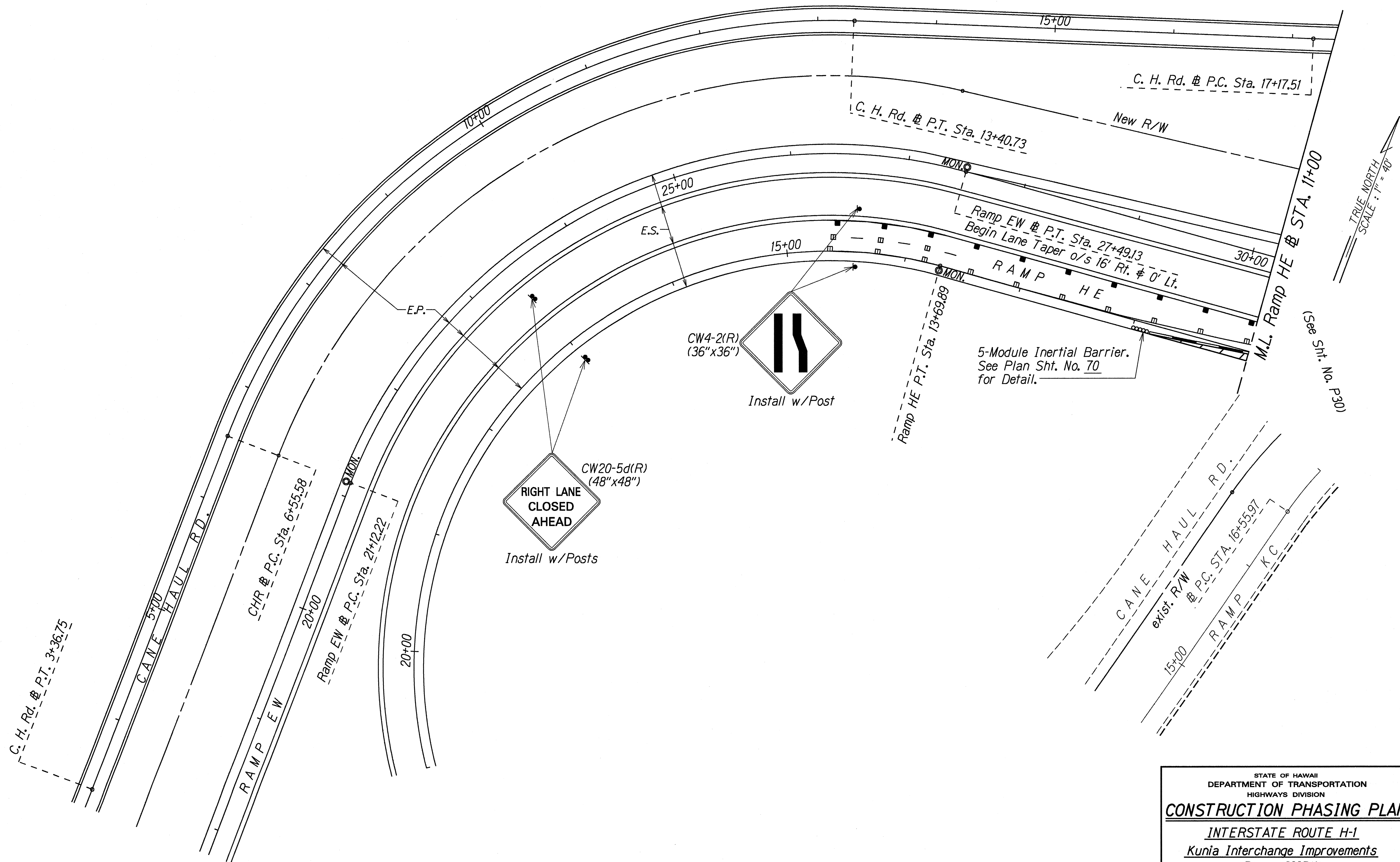
CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIID(1)
F. A. I. Project No. IM-HI-1(219)
 Scale: 1"=40' Date: Oct. 1997

SHEET No. P30 OF 41 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-22-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY	IN CHARGE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	99	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-22-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

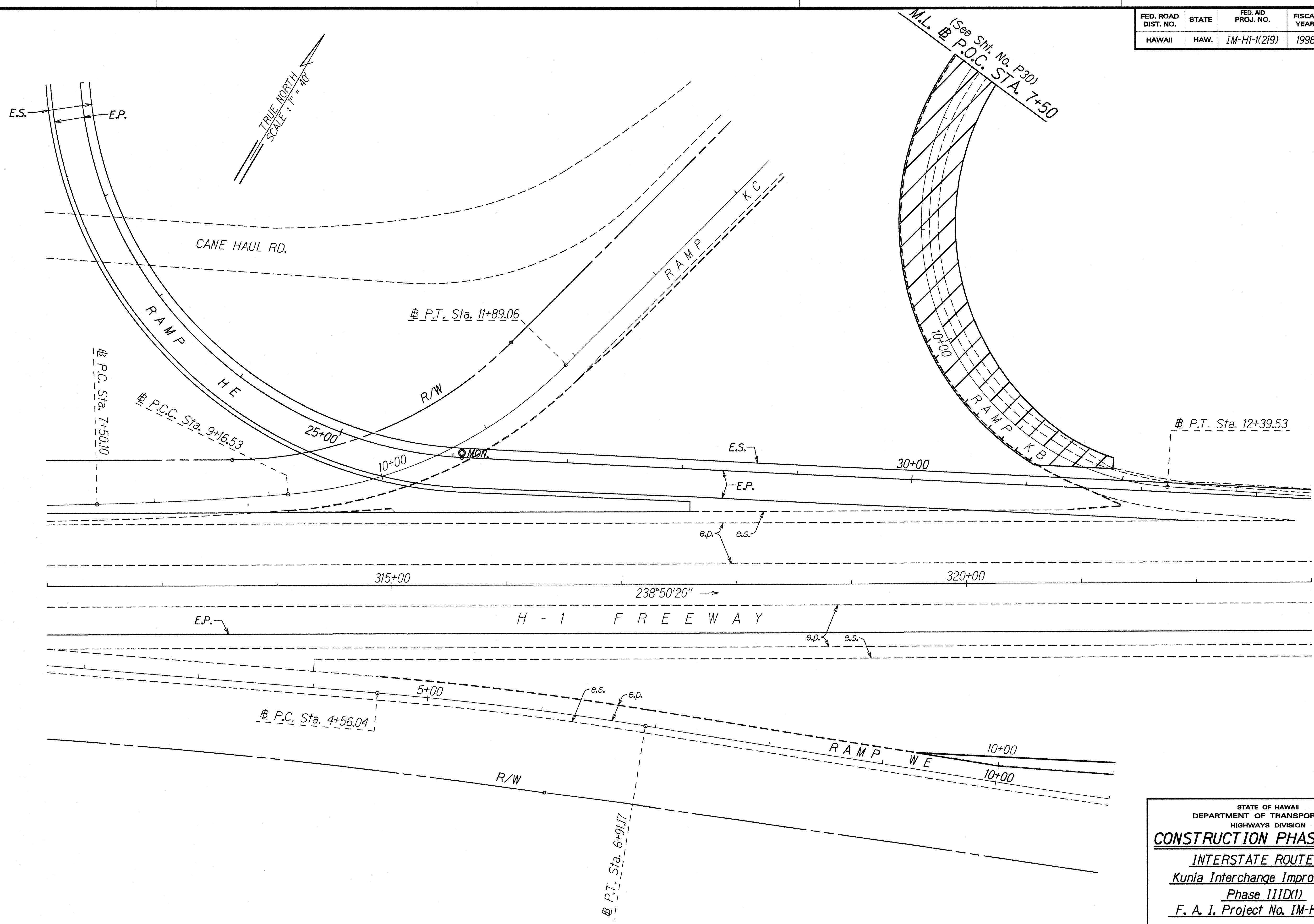
CONSTRUCTION PHASING PLAN

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

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

SHEET No. P31 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	100	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-22-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY	NOTED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

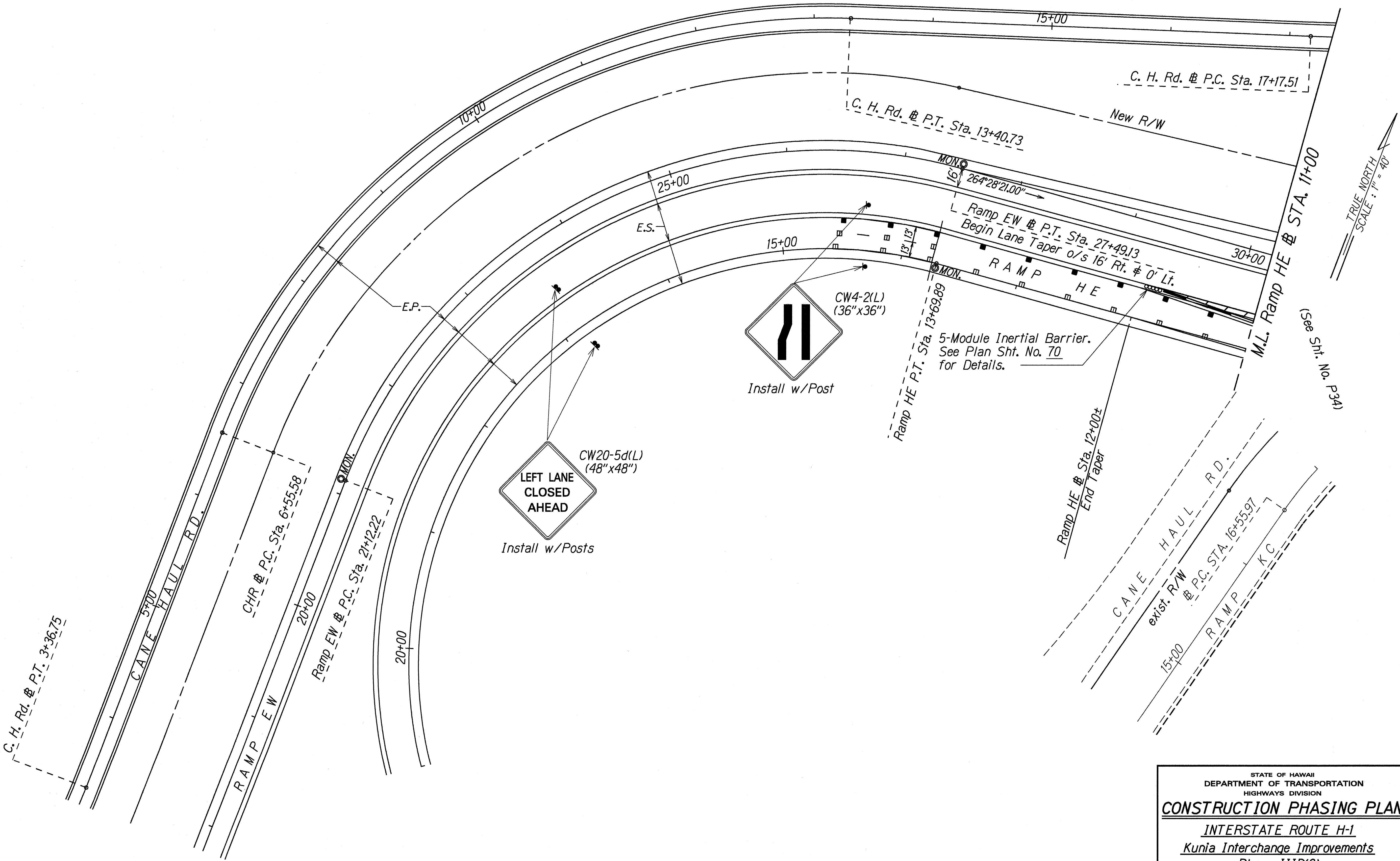
CONSTRUCTION PHASING PLAN

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

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

SHEET No. P32 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-K(219)	1998	101	378



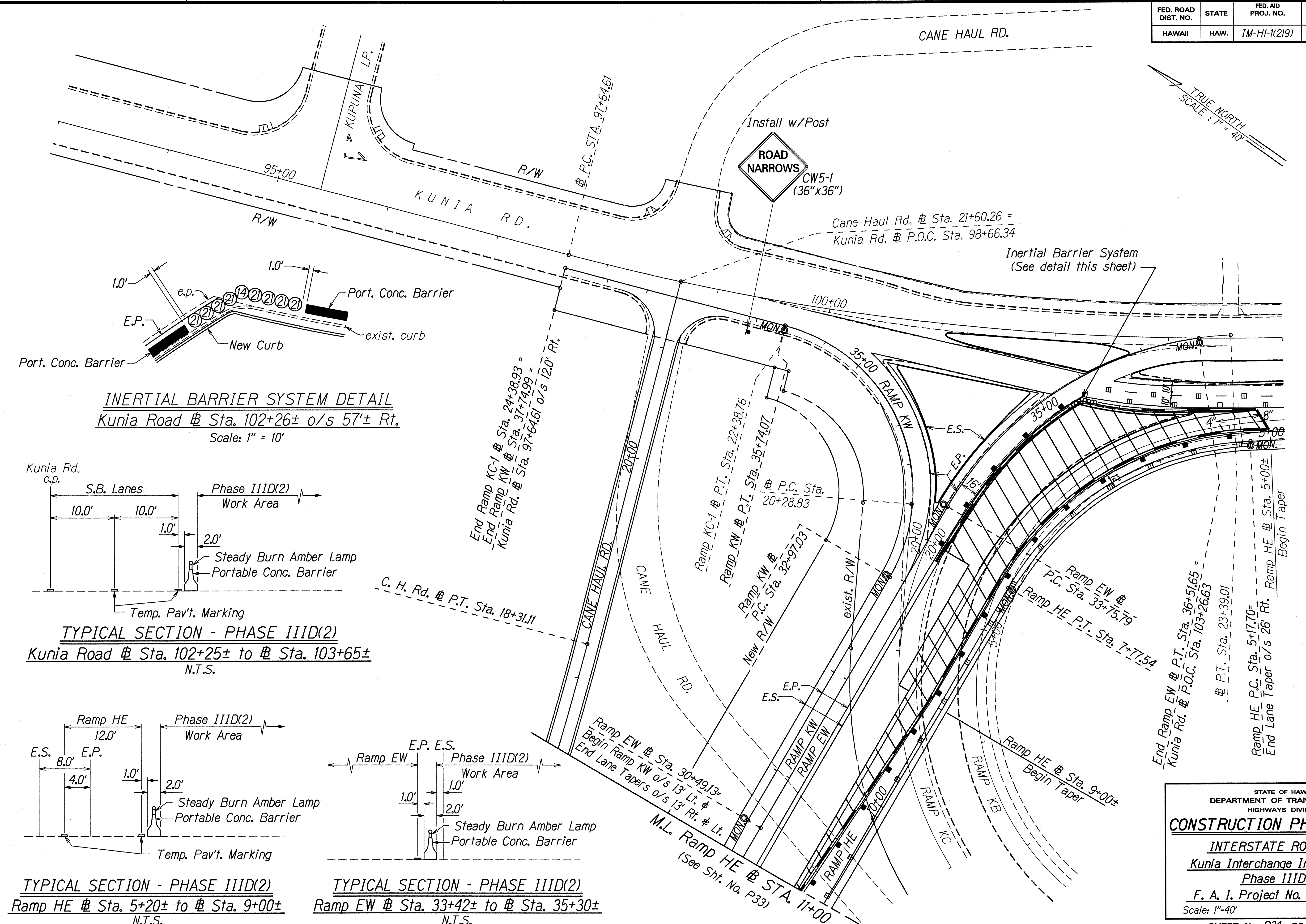
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10-22-97
QUANTITIES BY	DESIGNED BY	
CHECKED BY	NOTED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

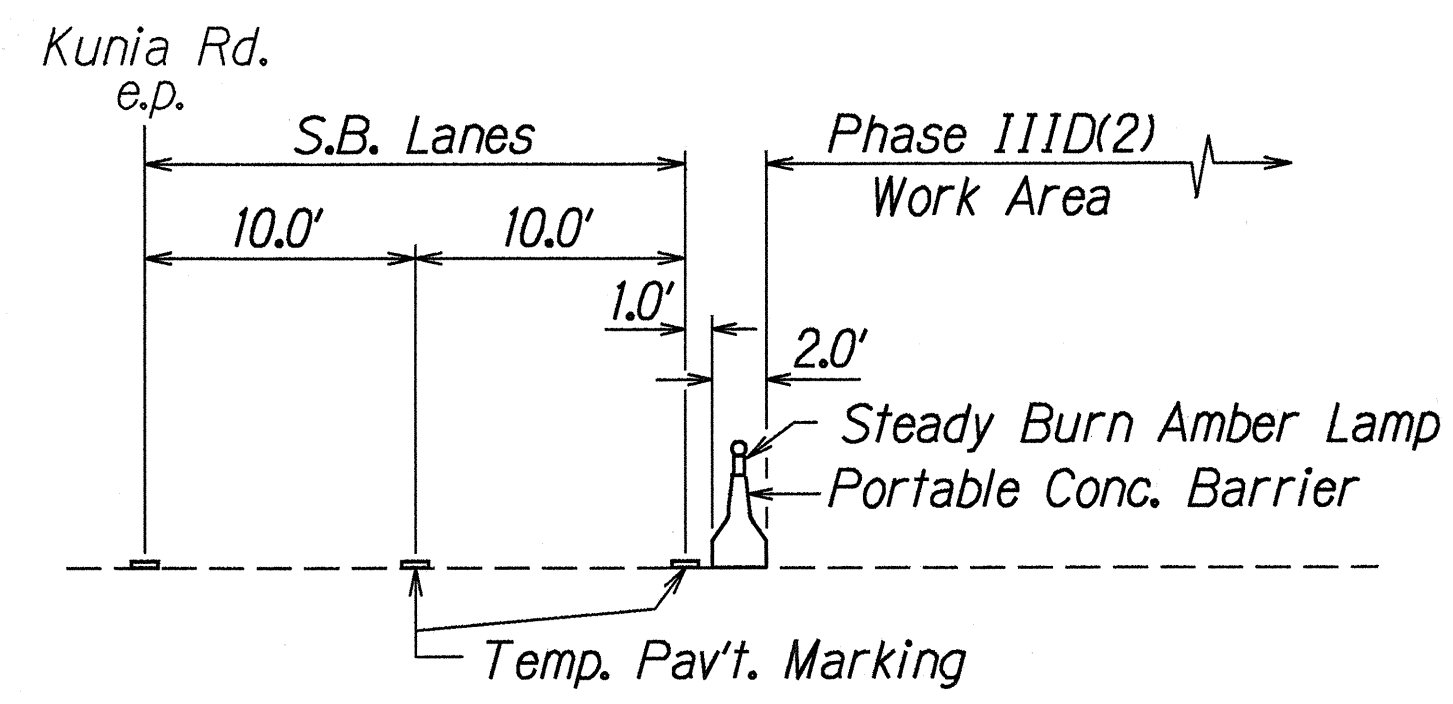
CONSTRUCTION PHASING PLAN
INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIID(2)
F. A. I. Project No. IM-HI-K(219)
Scale: 1"=40' Date: Oct. 1997

SHEET No. P33 OF 41 SHEETS

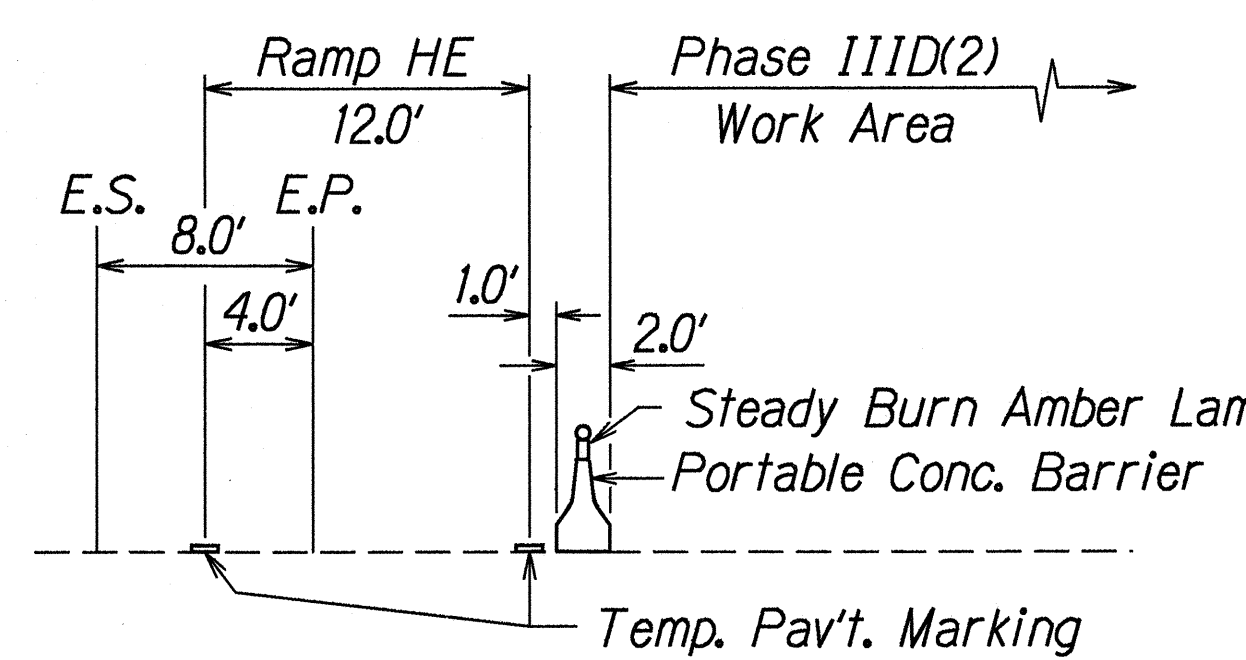
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	102	378



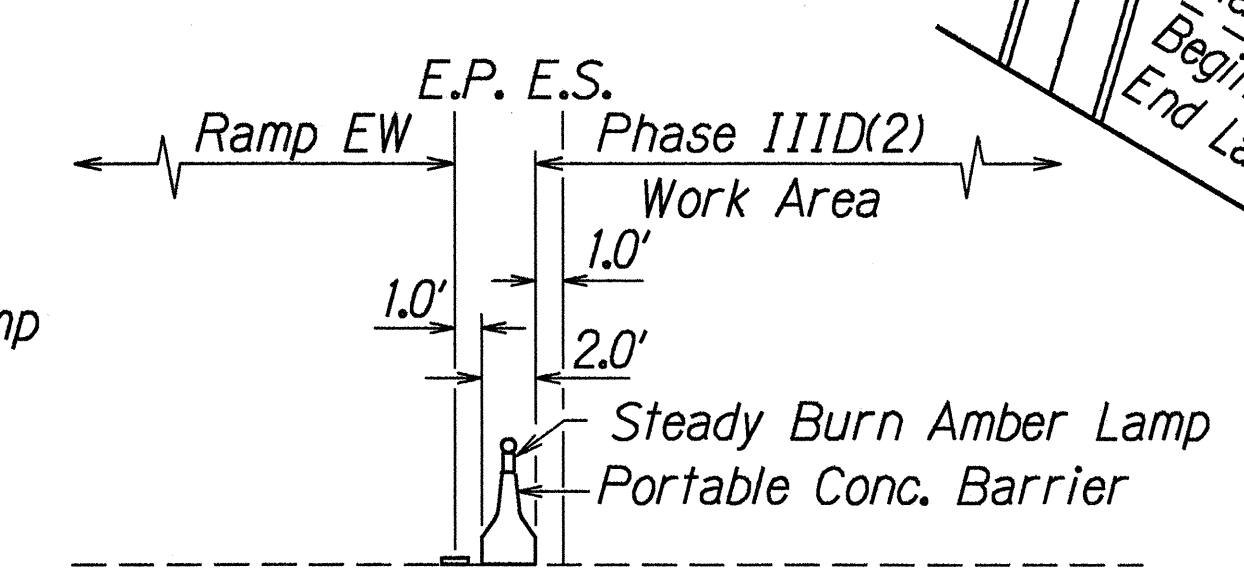
INERTIAL BARRIER SYSTEM DETAIL
 Kunia Road @ Sta. 102+26± o/s 57'± Rt.
 Scale: 1" = 10'



TYPICAL SECTION - PHASE IIID(2)
 Kunia Road @ Sta. 102+25± to @ Sta. 103+65±
 N.T.S.



TYPICAL SECTION - PHASE IIID(2)
 Ramp HE @ Sta. 5+20± to @ Sta. 9+00±
 N.T.S.



TYPICAL SECTION - PHASE IIID(2)
 Ramp EW @ Sta. 33+42± to @ Sta. 35+30±
 N.T.S.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

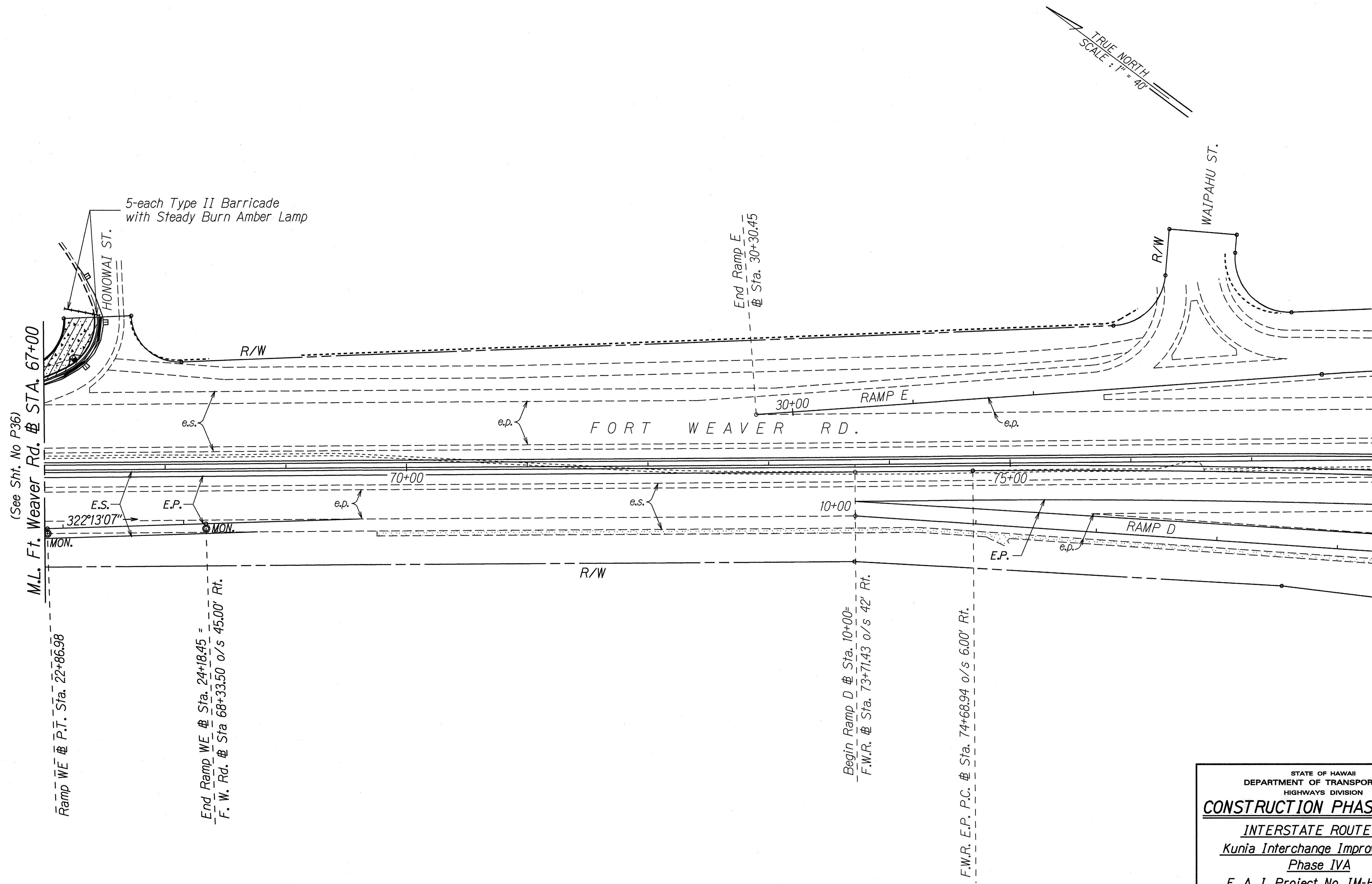
CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IIID(2)
F. A. I. Project No. 1M-HI-1(219)
 Scale: 1"=40' Date: Oct. 1997

SHEET No. P34 OF 41 SHEETS

ORIGINAL PLAN	DATE
NOTE BOOK	10-22-97
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	103	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	10-22-97
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IVA

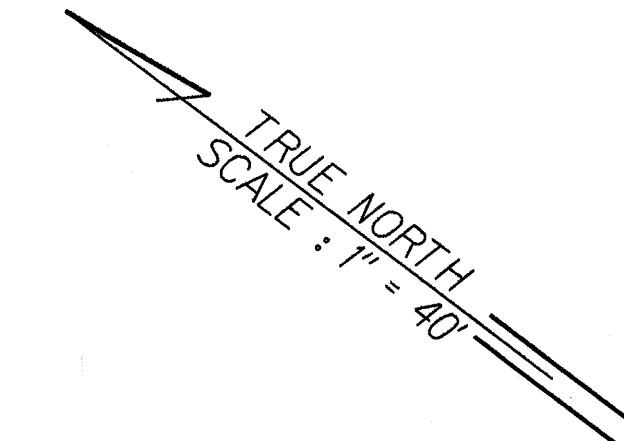
F. A. I. Project No. 1M-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

SHEET No. P35 OF 41 SHEETS

(See Sht. No. P37)

M.L. Ramp EH @ P.T. STA. 8+52.88

e.p. Fort Weaver Road N.B. Lanes e.p.e.p. Ramp EH Phase IVA Work Area



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

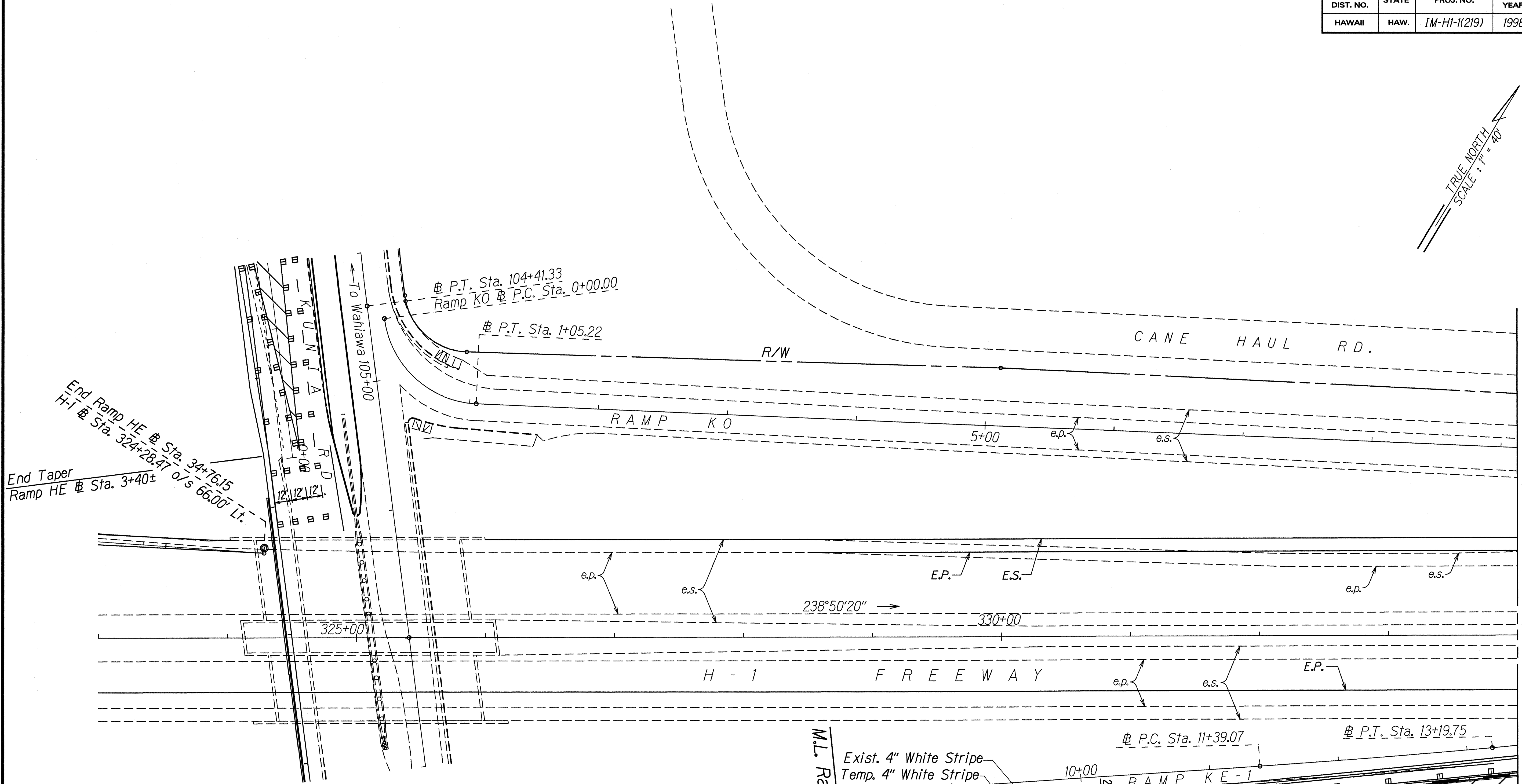
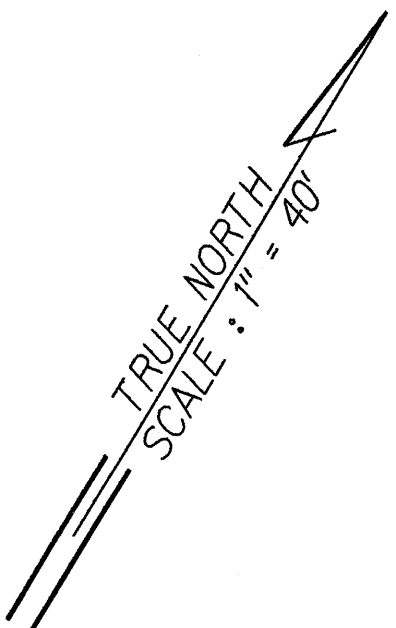
CONSTRUCTION PHASING PLAN

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

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

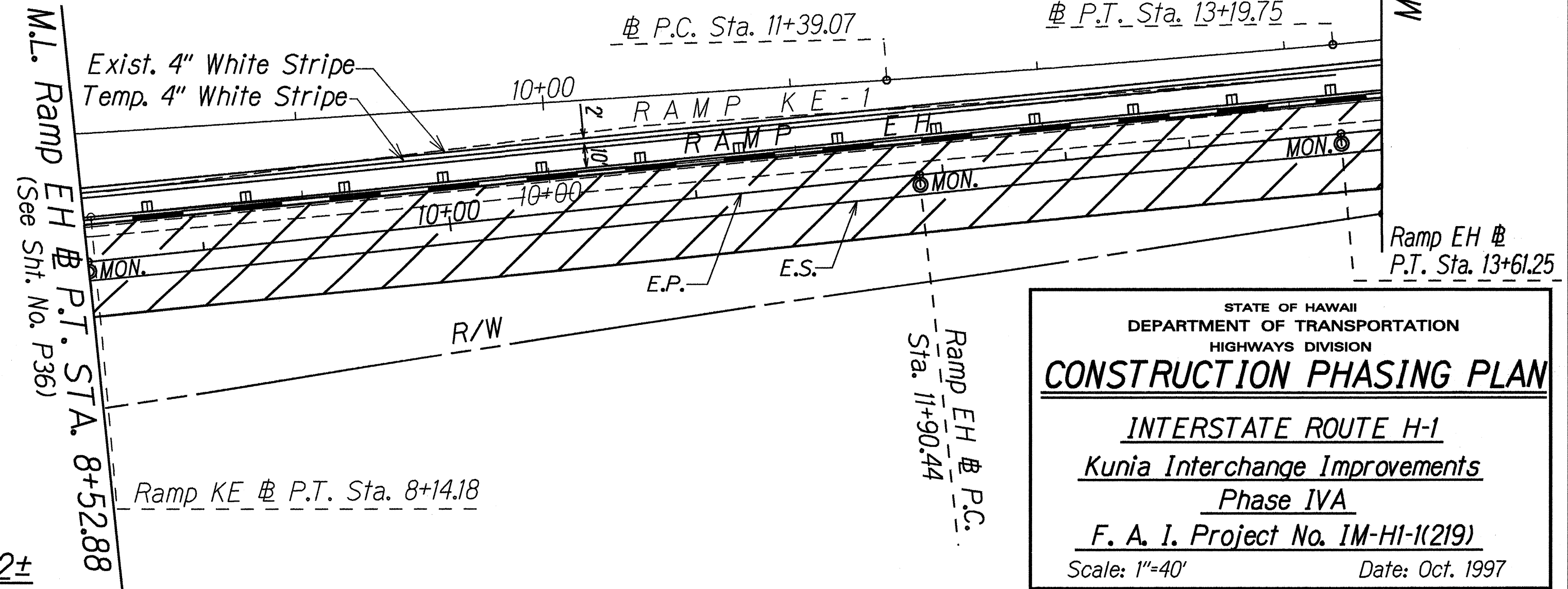
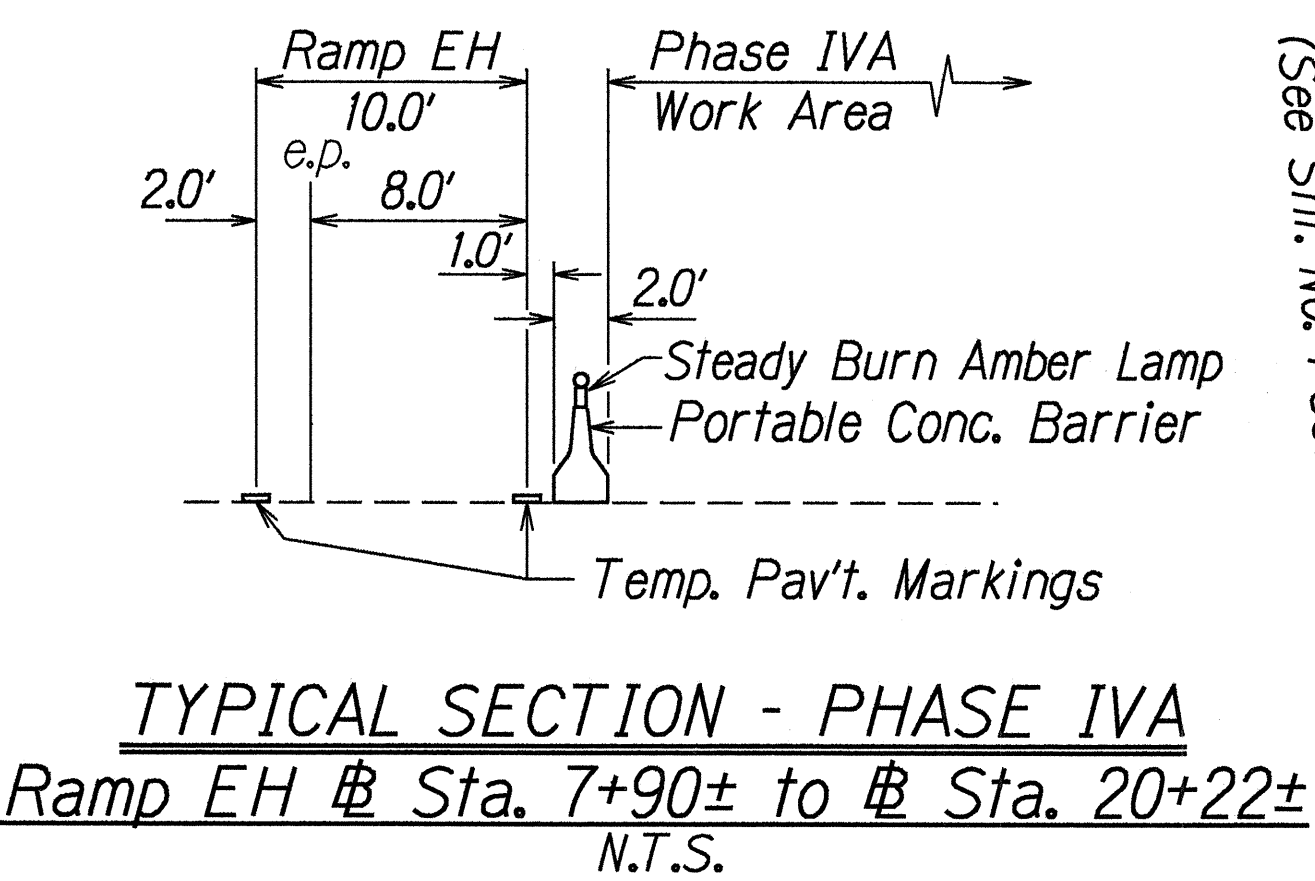
SHEET No. *P36* OF *41* SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	105	378



End Ramp HE # Sta. 34+76.15
 H-1 # Sta. 324+28.47 o/s 66.00' Lt.
 End Taper
 Ramp HE # Sta. 3+40±

M.L. H-1 # STA. 334+00
 (See Sht. No. P38)



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

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

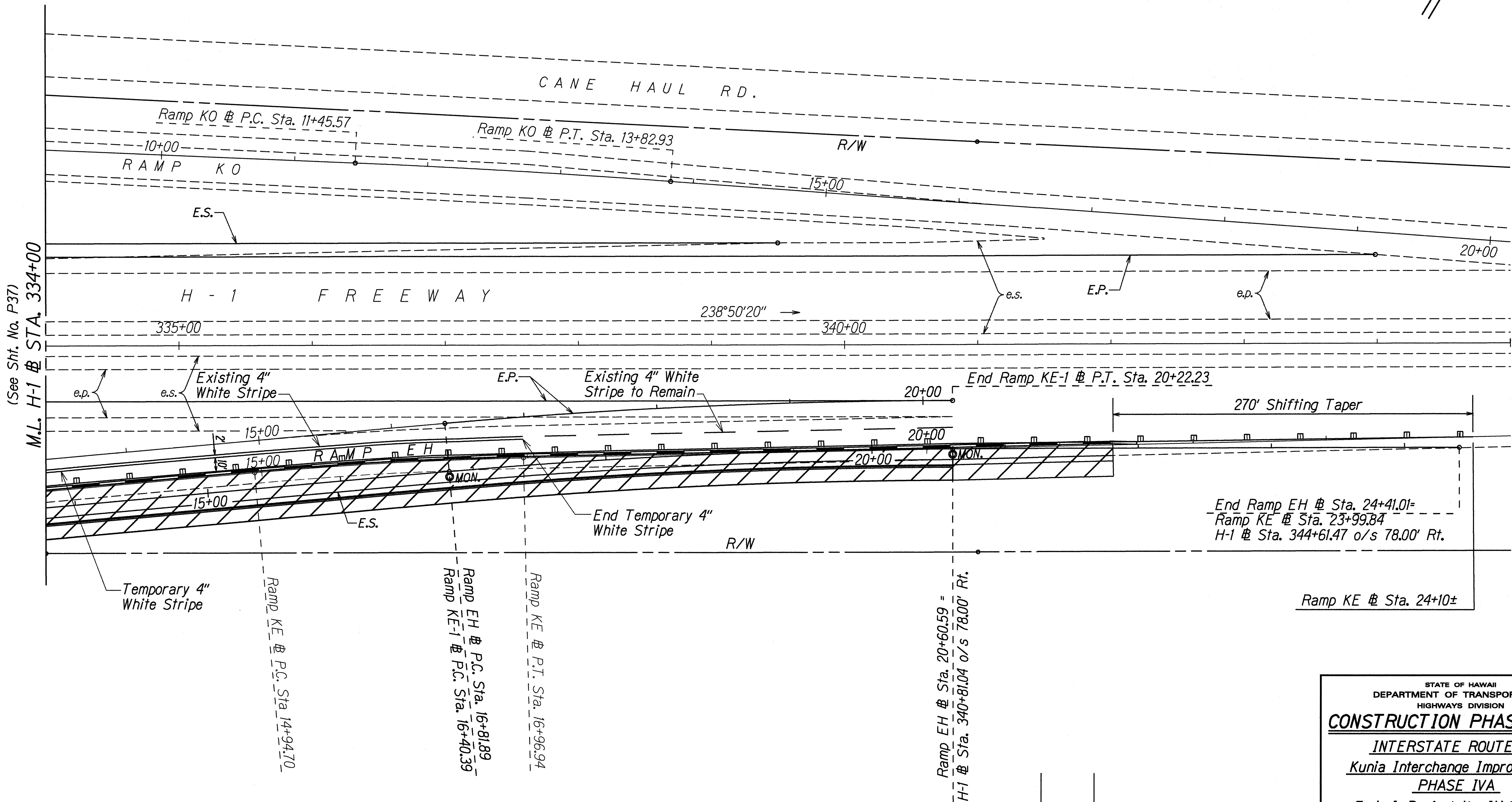
Scale: 1"=40' Date: Oct. 1997

SHEET No. P37 OF 41 SHEETS

ORIGINAL PLAN	DATE
10/22/97	
DESIGNED BY	10/22/97
DESIGNED BY	10/22/97
QUANTITIES BY	10/22/97
CHECKED BY	10/22/97

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1M-HI-1(219)	1998	106	378

TRUE NORTH
SCALE: 1" = 40'

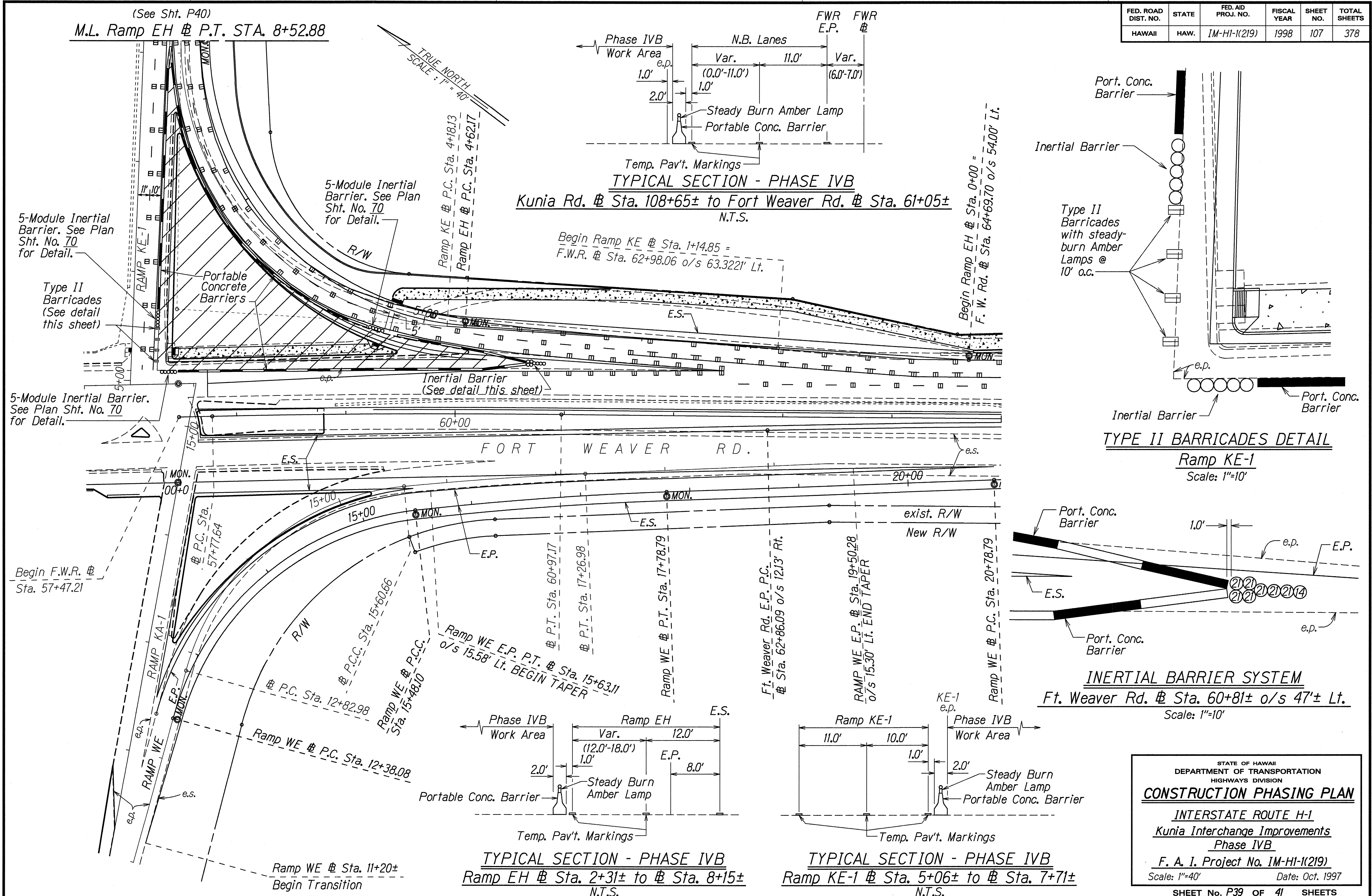


ORIGINAL PLAN	DATE
NOTED BY	4/2/99
QUANTITIES BY	
CHECKED BY	

4-08-99	Extended project limit on Ramp EH.
DATE	REVISION

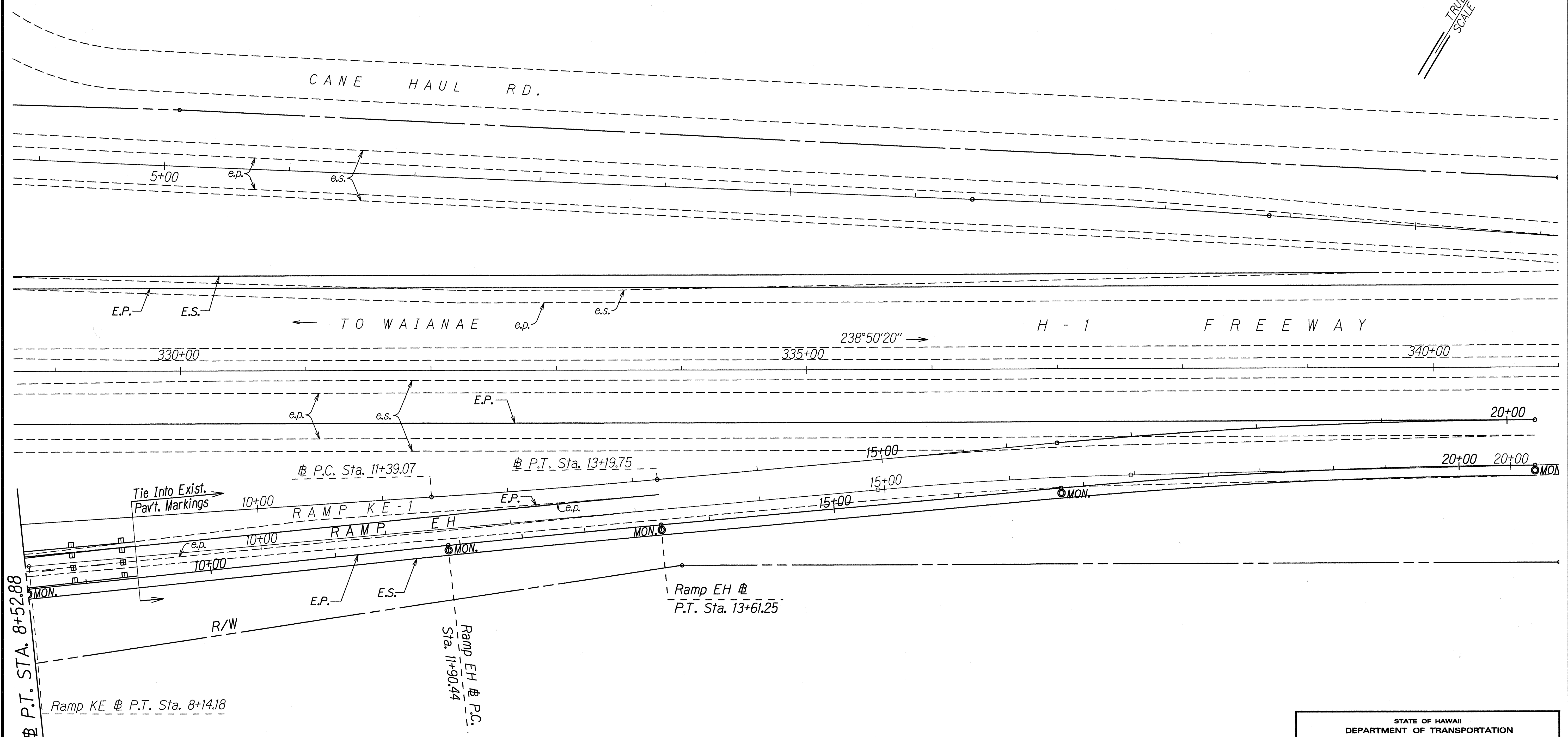
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN
INTERSTATE ROUTE H-1 Kunia Interchange Improvements PHASE IVA
F. A. I. Project No. 1M-HI-1(219)
Scale: 1"=40' Date: Oct. 1997
SHEET No. P38 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	107	378



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	108	378

TRUE NORTH
SCALE: 1" = 40'



(See Sht. P39)
M.L. Ramp EH # P.T. STA. 8+52.88

ORIGINAL PLAN	DATE
NOTE BOOK	10-22-97
DESIGNED BY	ddm
CHECKED BY	ddm

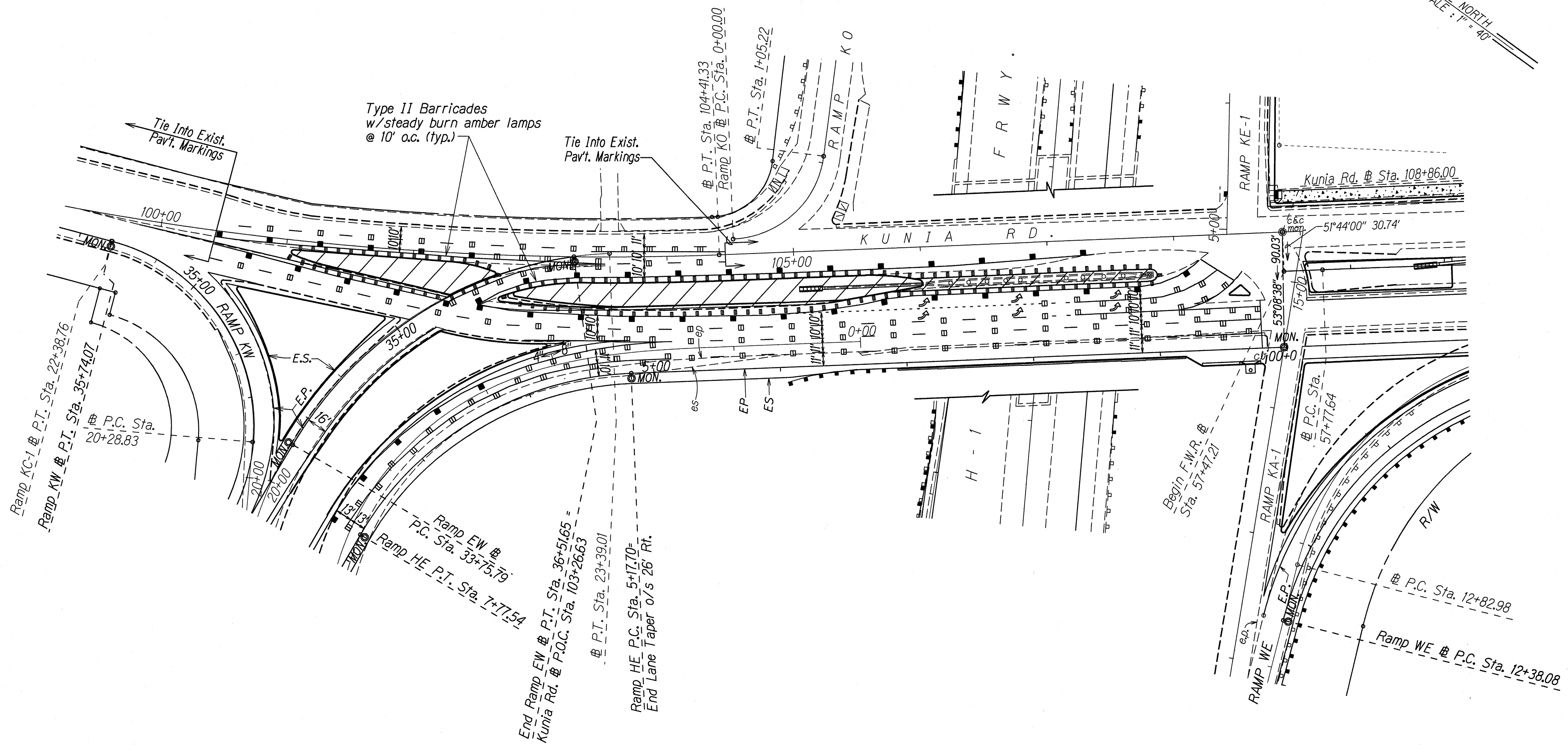
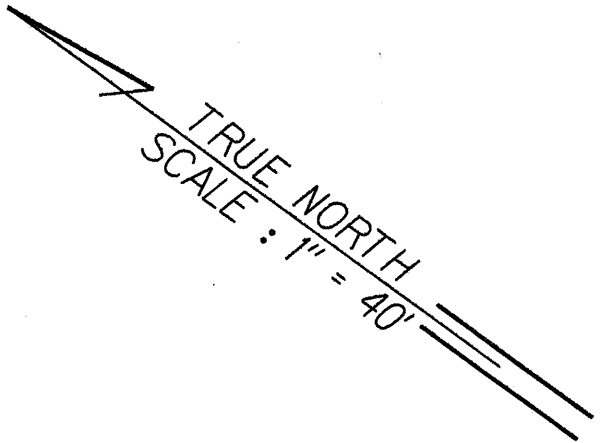
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1
Kunia Interchange Improvements
Phase IVB
F. A. I. Project No. IM-HI-1(219)
Scale: 1"=40' Date: Oct. 1997

SHEET No. P40 OF 41 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-HI-1(219)	1998	109	378



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10/23/97
DESIGNED BY	DESIGNED BY	
QUANTITIES BY	QUANTITIES BY	
CHECKED BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

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

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

SHEET No. 41 OF 41 SHEETS