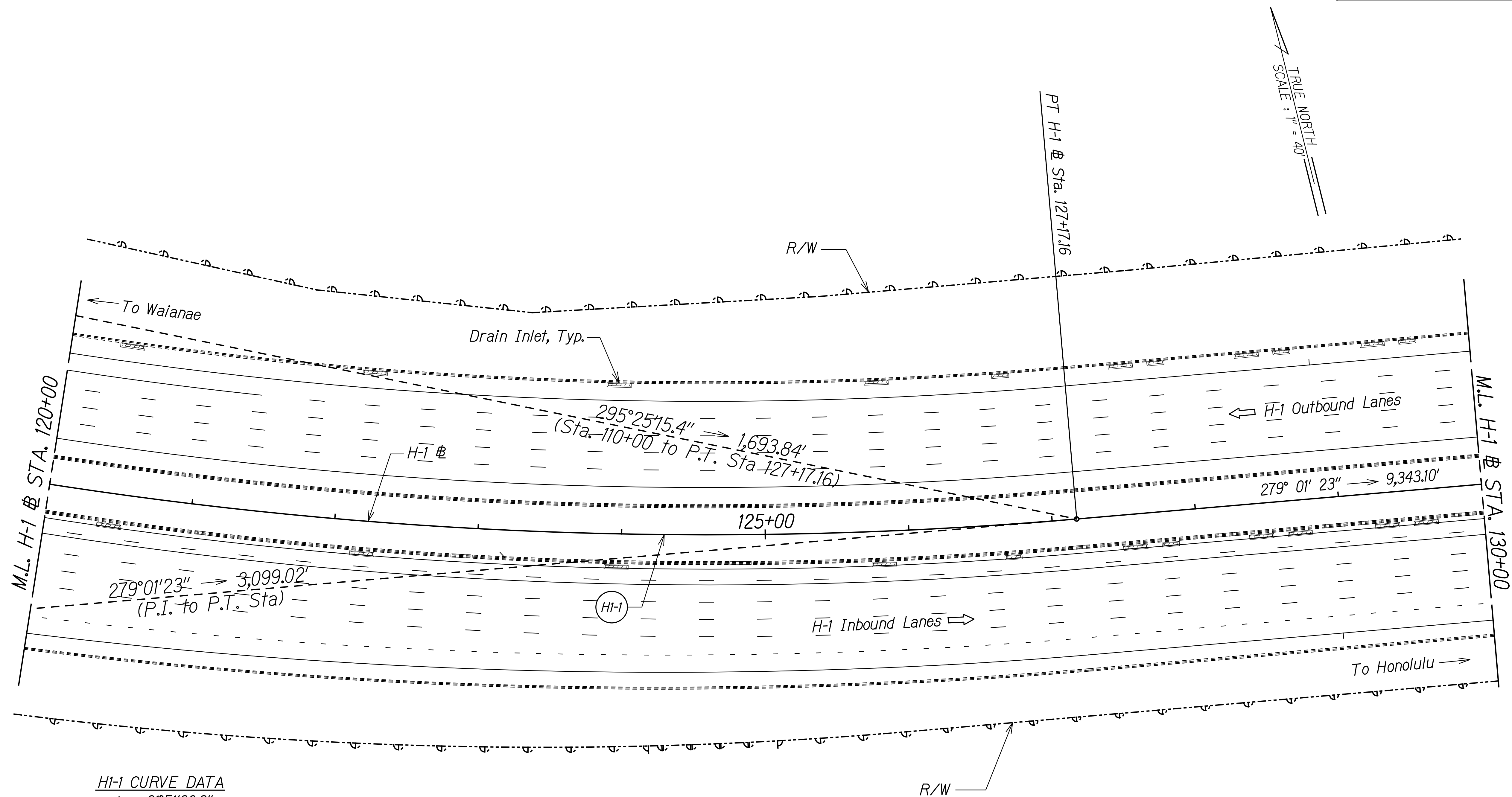


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	9	214



H-1 CURVE DATA

$\Delta = 9^\circ 51' 36.8''$
 $R = 3000.00'$
 $T = 3099.02'$
 $C = 4310.95'$
 $L_c = 4809.79'$

NOTE:
See Sheet A-1 for Notes.

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

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R. M. Uragami 04/30/22
SIGNATURE EXPIRATION DATE OF THE LICENSE

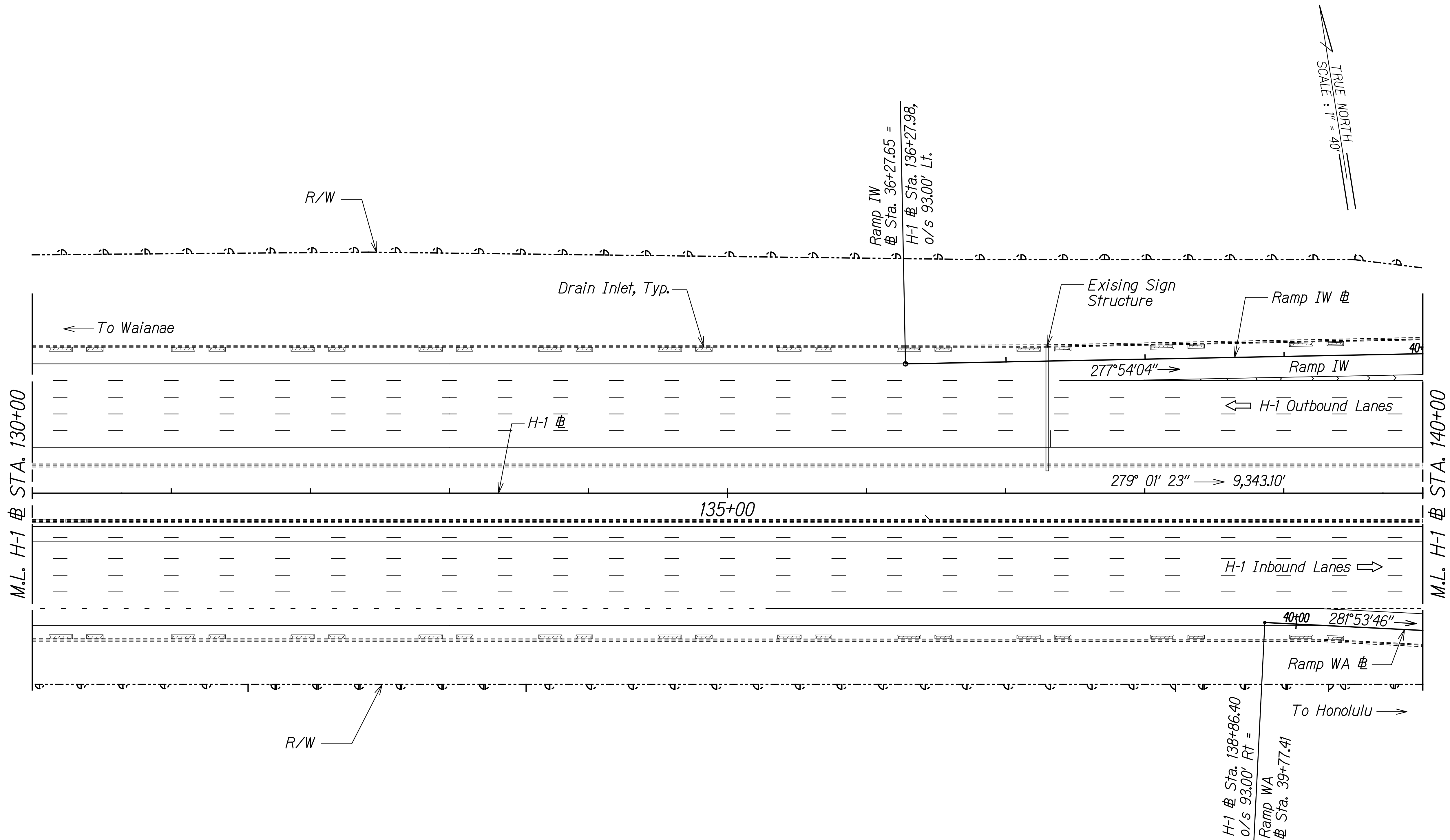
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
@ STA. 120+00 TO 130+00

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1" = 40' Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	10	214



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
IN CHARGE	

NOTE:
See Sheet A-1 for Notes.

RANDALL M. URASAKI

LICENSED PROFESSIONAL ENGINEER

No. 7289-C

HAWAII, U.S.A.

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Signature

04/30/22

EXPIRATION DATE OF THE LICENSE

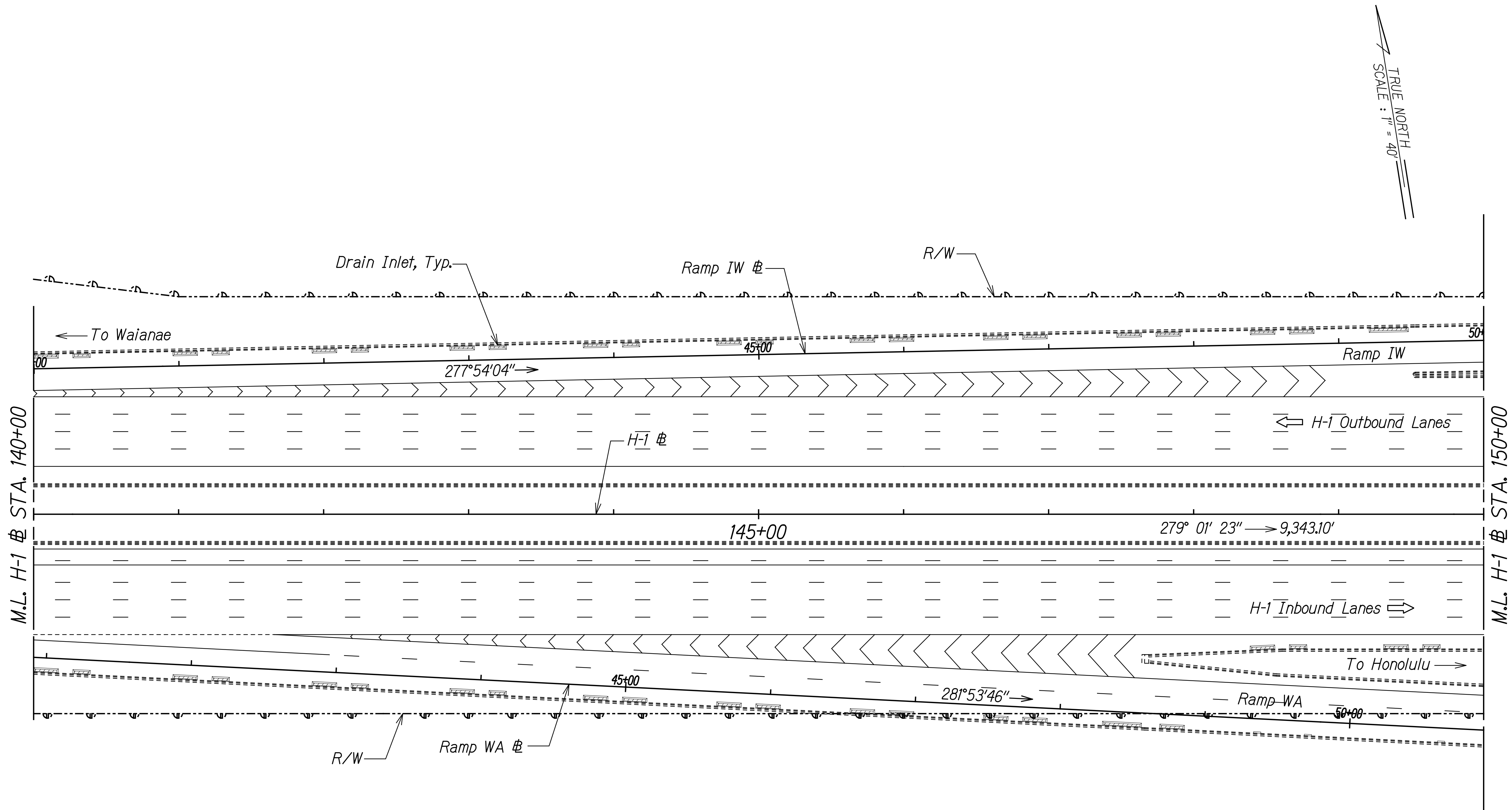
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
@ STA. 130+00 TO 140+00
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)
Scale: 1" = 40'
Date: Aug. 2020

SHEET No. A-3 OF 13 SHEETS

10

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	11	214



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

NOTE:
See Sheet A-1 for Notes.

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R. M. Uragami
SIGNATURE

04/30/22
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
@ STA. 140+00 TO 150+00

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1" = 40' Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 12	214

IW-1 CURVE DATA

$\Delta = 01^{\circ}07'19.1''$
 $R = 20000.00'$
 $T = 195.83'$
 $C = 391.63'$
 $Lc = 391.64'$

EA-1 CURVE DATA

$\Delta = 89^{\circ}59'04.3''$
 $R = 250.00'$
 $T = 249.96'$
 $C = 353.51'$
 $Lc = 392.66'$

WA-1 CURVE DATA

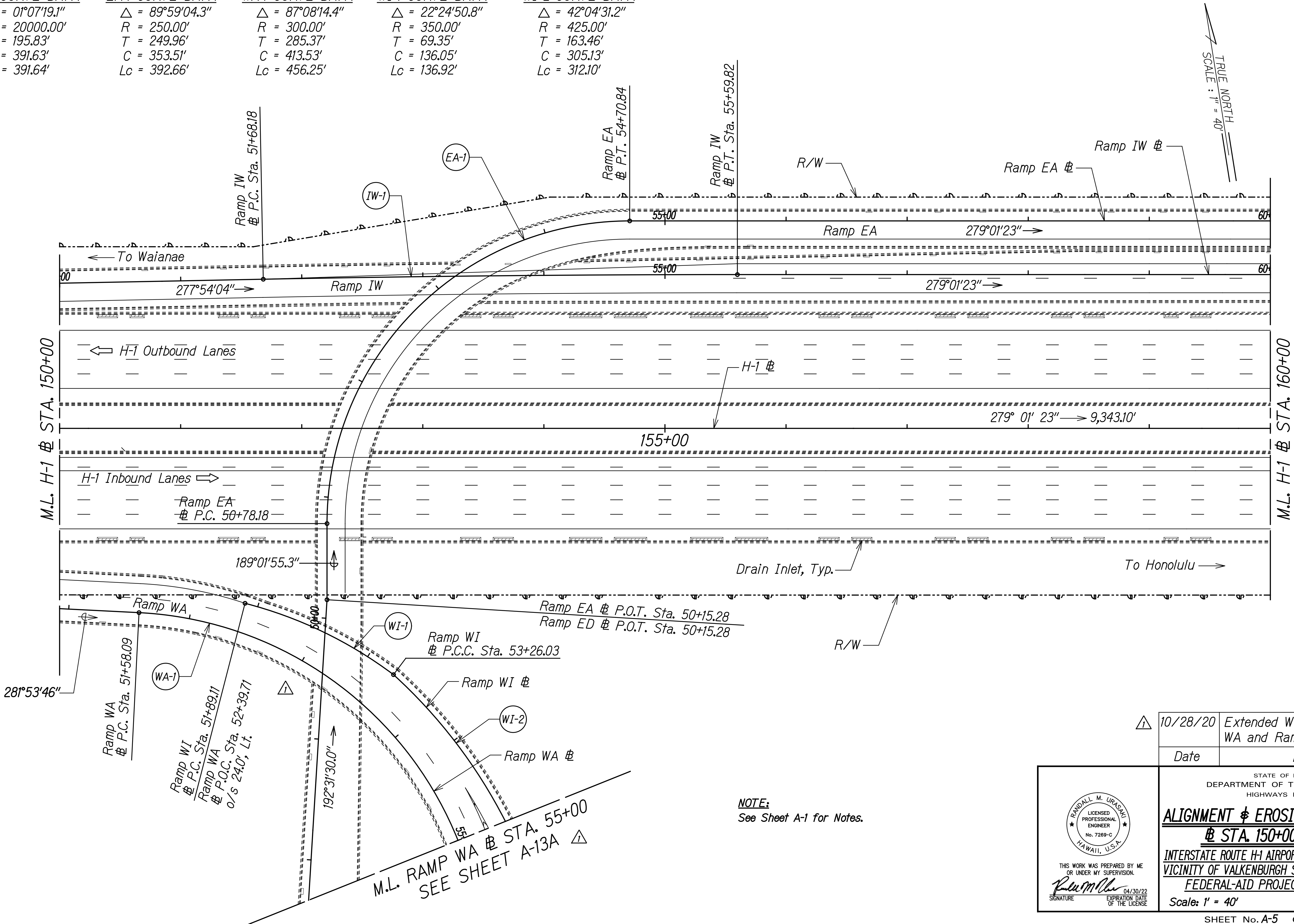
$\Delta = 87^{\circ}08'14.4''$
 $R = 300.00'$
 $T = 285.37'$
 $C = 413.53'$
 $Lc = 456.25'$

WI-1 CURVE DATA

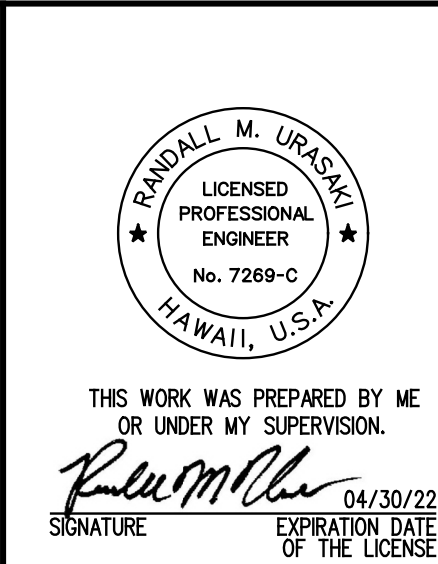
$\Delta = 22^{\circ}24'50.8''$
 $R = 350.00'$
 $T = 69.35'$
 $C = 136.05'$
 $Lc = 136.92'$

WI-2 CURVE DATA

$\Delta = 42^{\circ}04'31.2''$
 $R = 425.00'$
 $T = 163.46'$
 $C = 305.13'$
 $Lc = 312.10'$



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



10/28/20	Extended Work on Ramp WA and Ramp WI.
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
@ STA. 150+00 TO 160+00

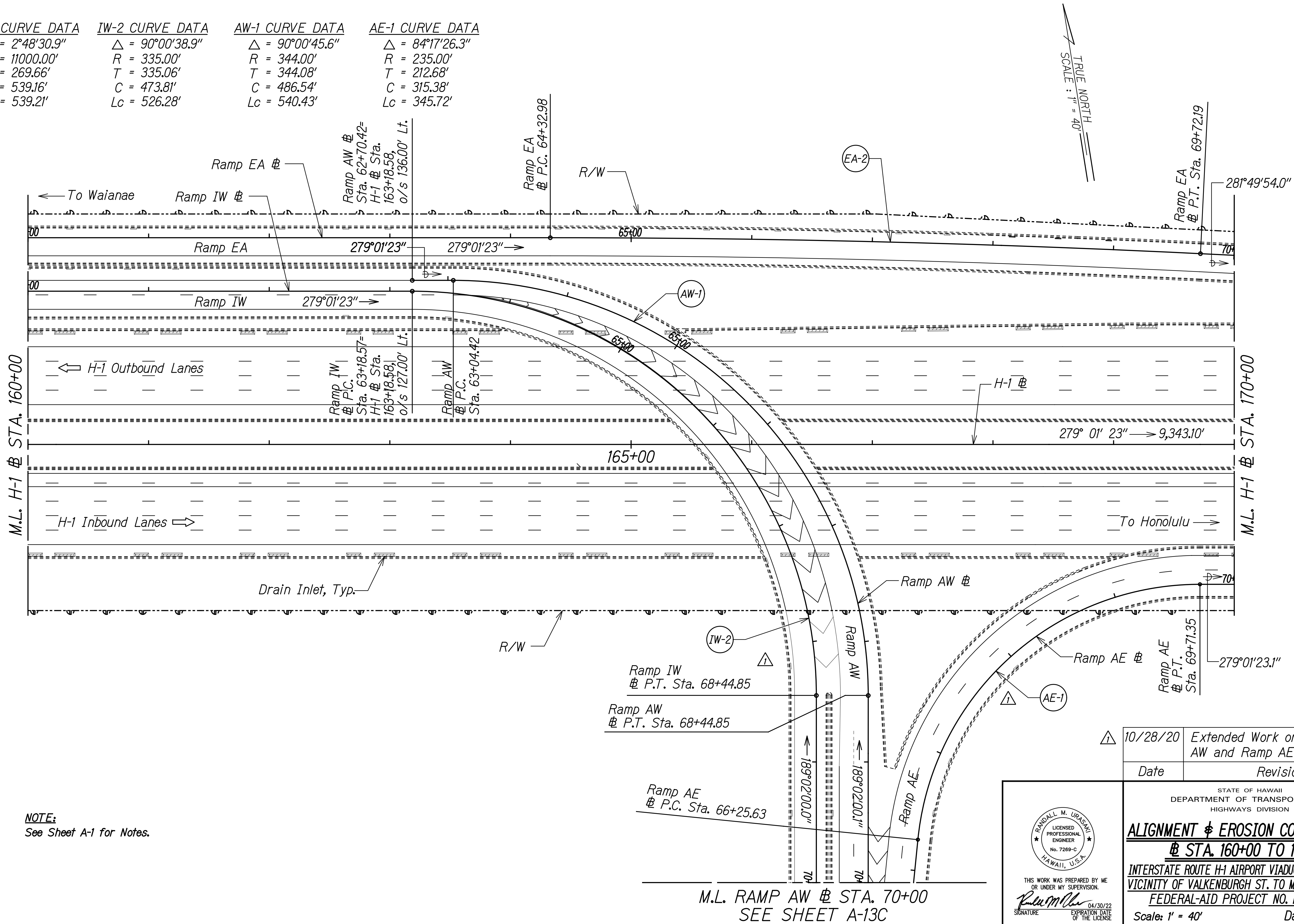
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1' = 40' Date: Aug. 2020

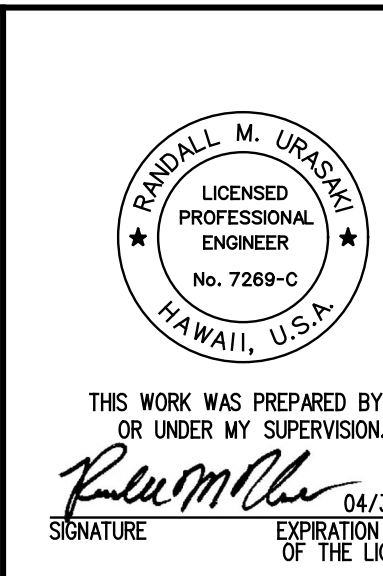
SHEET No. A-5 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 13	214

EA-2 CURVE DATA	IW-2 CURVE DATA	AW-1 CURVE DATA	AE-1 CURVE DATA
$\Delta = 2^{\circ}48'30.9''$	$\Delta = 90^{\circ}00'38.9''$	$\Delta = 90^{\circ}00'45.6''$	$\Delta = 84^{\circ}17'26.3''$
$R = 11000.00'$	$R = 335.00'$	$R = 344.00'$	$R = 235.00'$
$T = 269.66'$	$T = 335.06'$	$T = 344.08'$	$T = 212.68'$
$C = 539.16'$	$C = 473.81'$	$C = 486.54'$	$C = 315.38'$
$Lc = 539.21'$	$Lc = 526.28'$	$Lc = 540.43'$	$Lc = 345.72'$



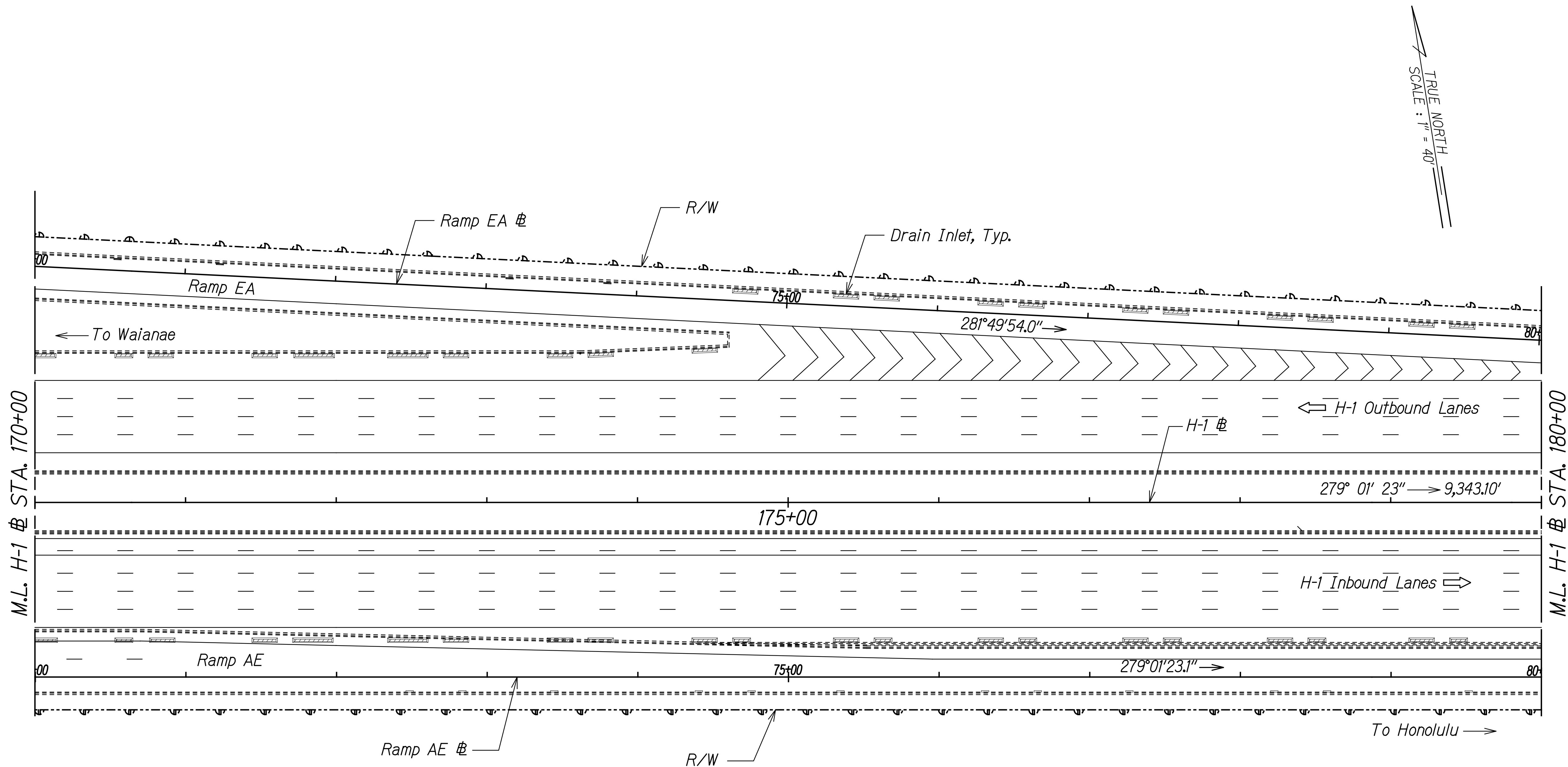
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	



Date	Revision
10/28/20	Extended Work on Ramp AW and Ramp AE.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
ALIGNMENT & EROSION CONTROL PLAN @ STA. 160+00 TO 170+00
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2 FEDERAL-AID PROJECT NO. NH-HI-1(276)
Scale: 1' = 40' Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	14	214



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
Nº	

NOTE:
See Sheet A-1 for Notes.

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R. Uragami
SIGNATURE

04/30/22
EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
@ STA. 170+00 TO 180+00

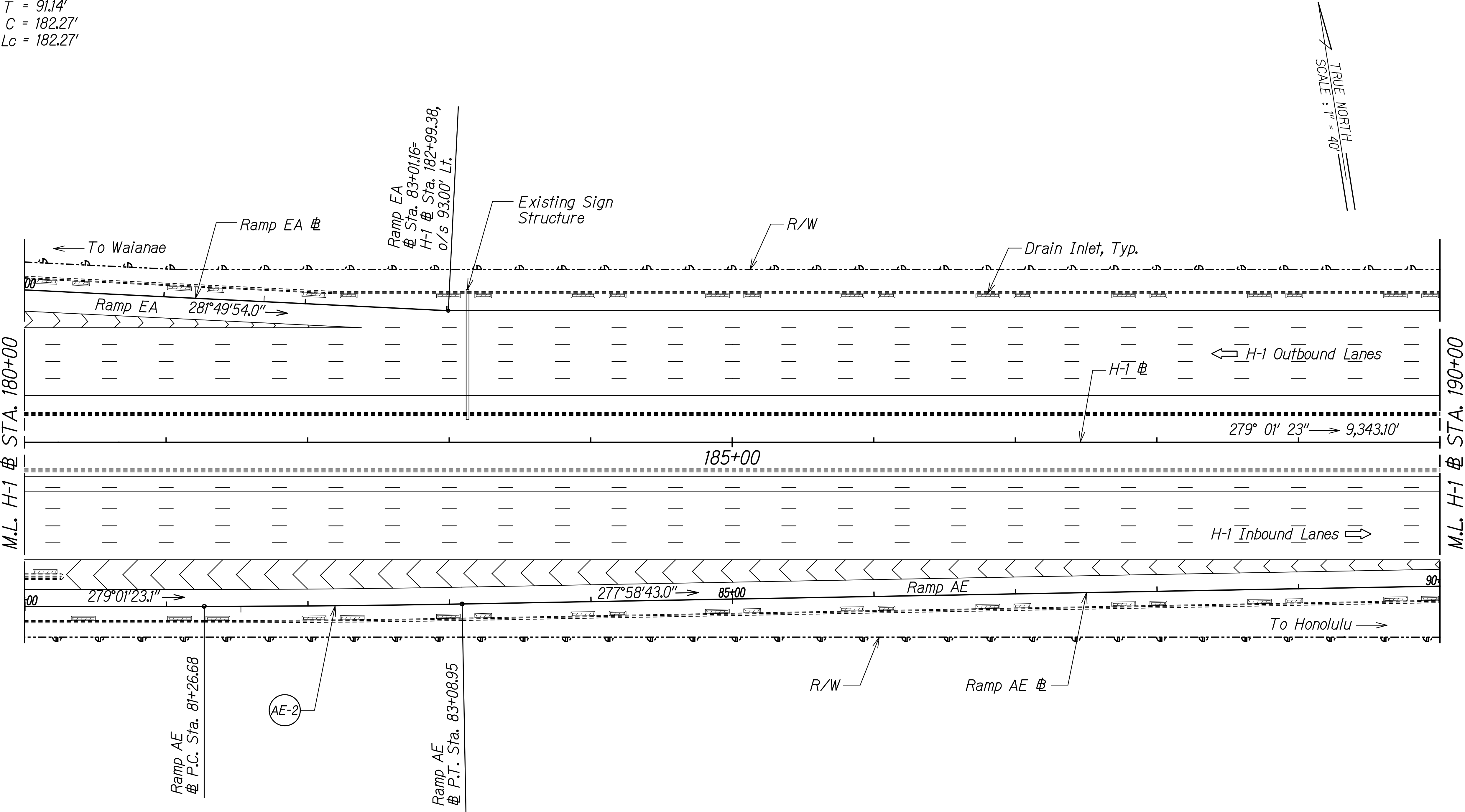
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1' = 40' Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	15	214

AE-2 CURVE DATA

$\Delta = 1^{\circ}02'39.6''$
 $R = 10000.00'$
 $T = 91.14'$
 $C = 182.27'$
 $L_c = 182.27'$



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTE BOOK DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

NOTE:
See Sheet A-1 for Notes.

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SIGNATURE

04/30/22
EXPIRATION DATE
OF THE LICENSE

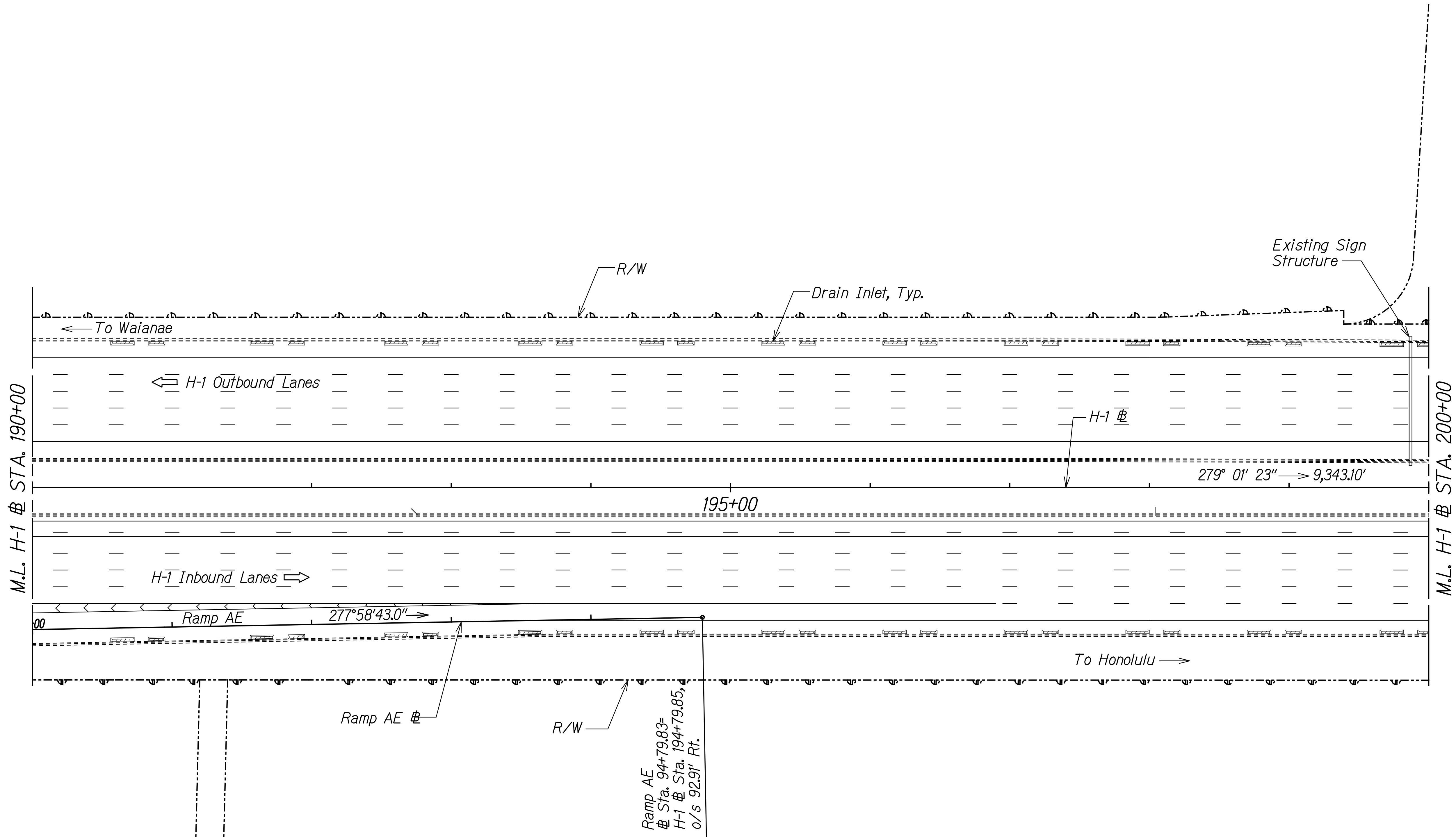
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
@ STA. 180+00 TO 190+00

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1' = 40' Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	16	214



TRUE NORTH
SCALE : 1" = 40'

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

NOTE:
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SIGNATURE

04/30/22
EXPIRATION DATE OF THE LICENSE

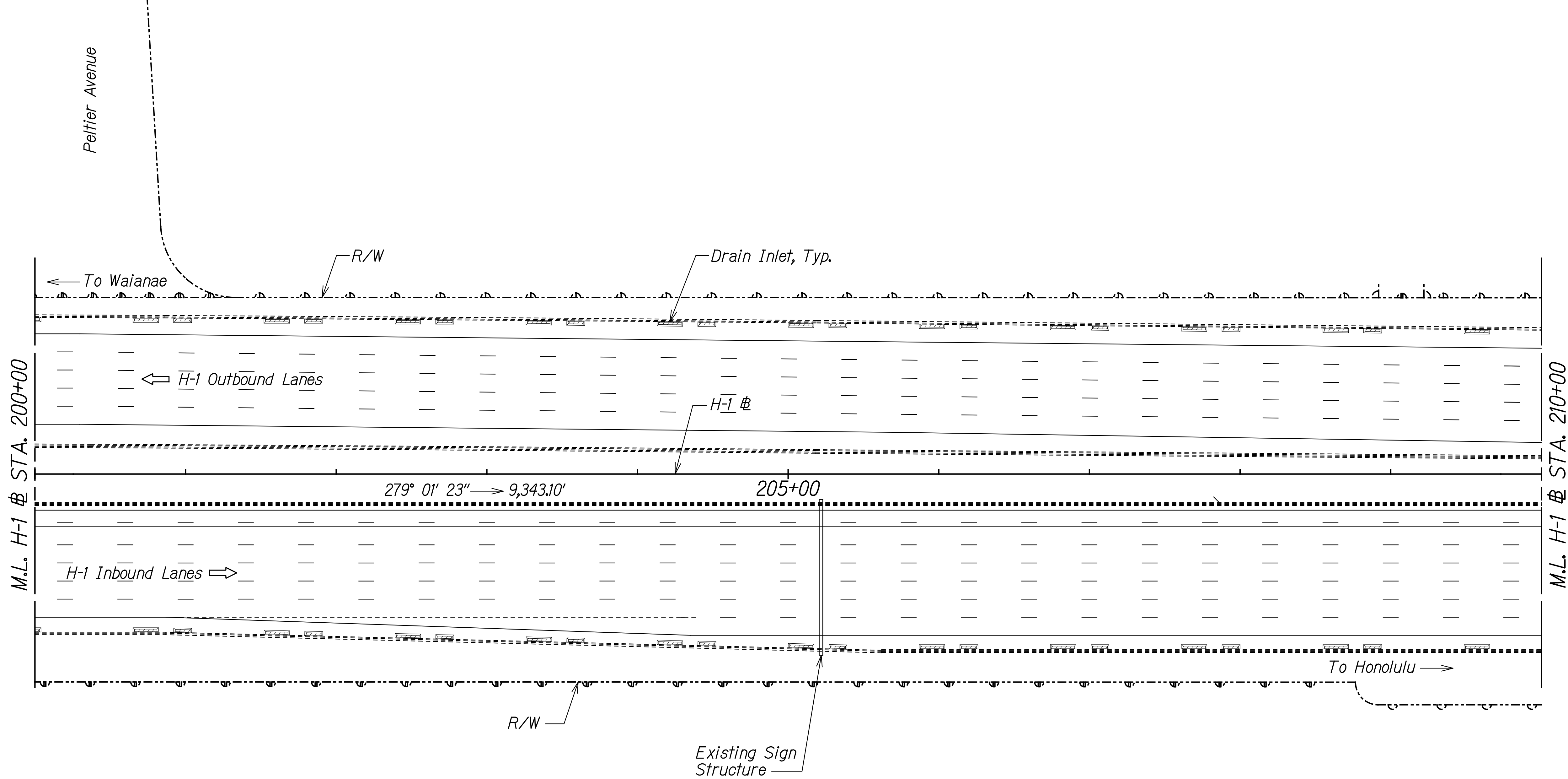
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
@ STA. 190+00 TO 200+00

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1' = 40' Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	17	214



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

NOTE:
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EXPIRATION DATE
OF THE LICENSE

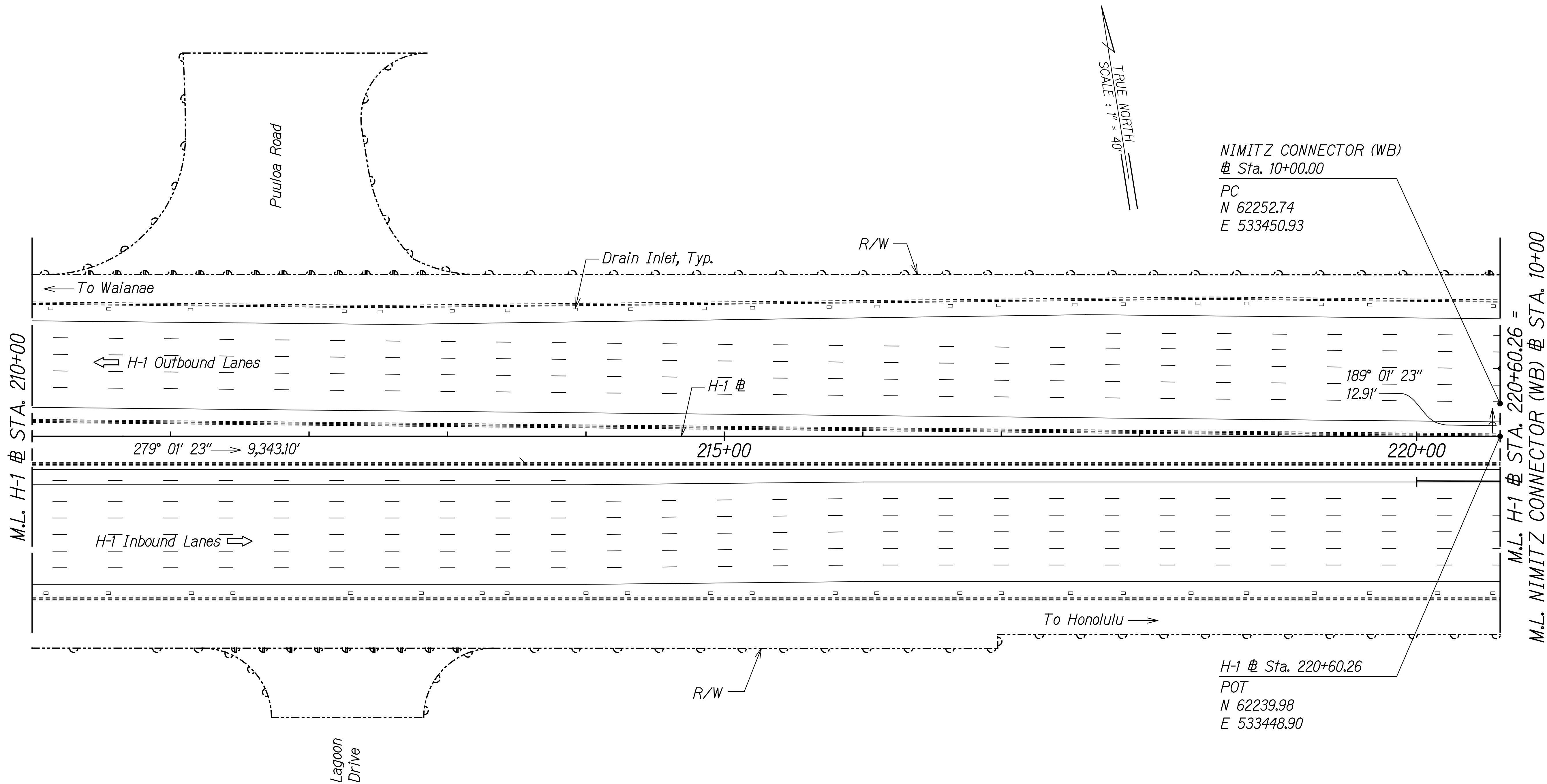
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
@ STA. 200+00 TO 210+00

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1' = 40' Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	18	214



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

NOTE:
See Sheet A-1 for Notes.

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OR UNDER MY SUPERVISION.

R. M. Uragami
SIGNATURE

04/30/22
EXPIRATION DATE
OF THE LICENSE

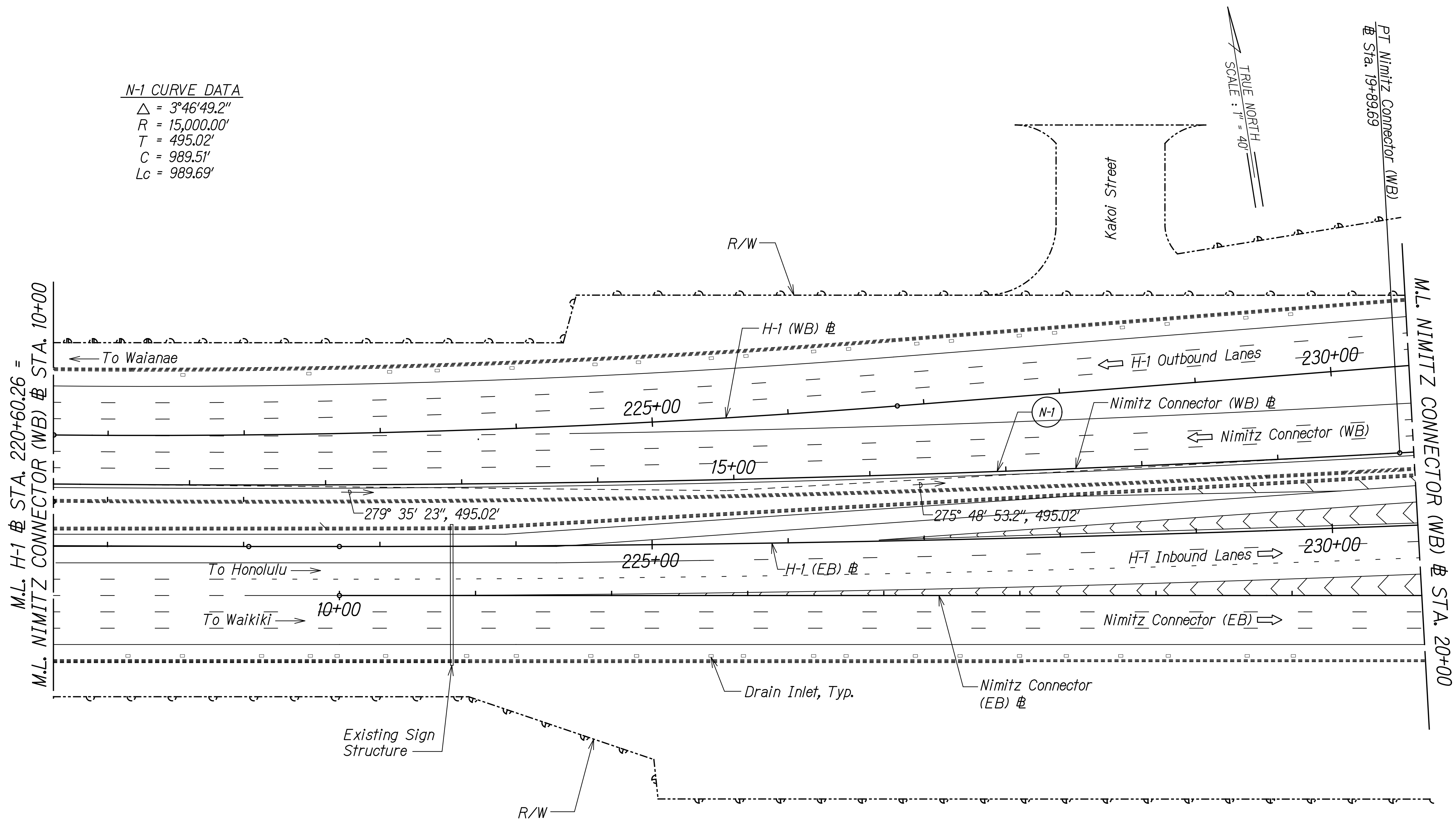
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
& STA. 210+00 TO 220+60.26

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1' = 40' Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	19	214



NOTE:
See Sheet A-1 for Notes.

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
N.	

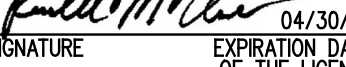
RANDALL M. URAGAMI

LICENSED PROFESSIONAL ENGINEER

No. 7289-C

HAWAII, U.S.A.

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04/30/22

SIGNATURE EXPIRATION DATE OF THE LICENSE

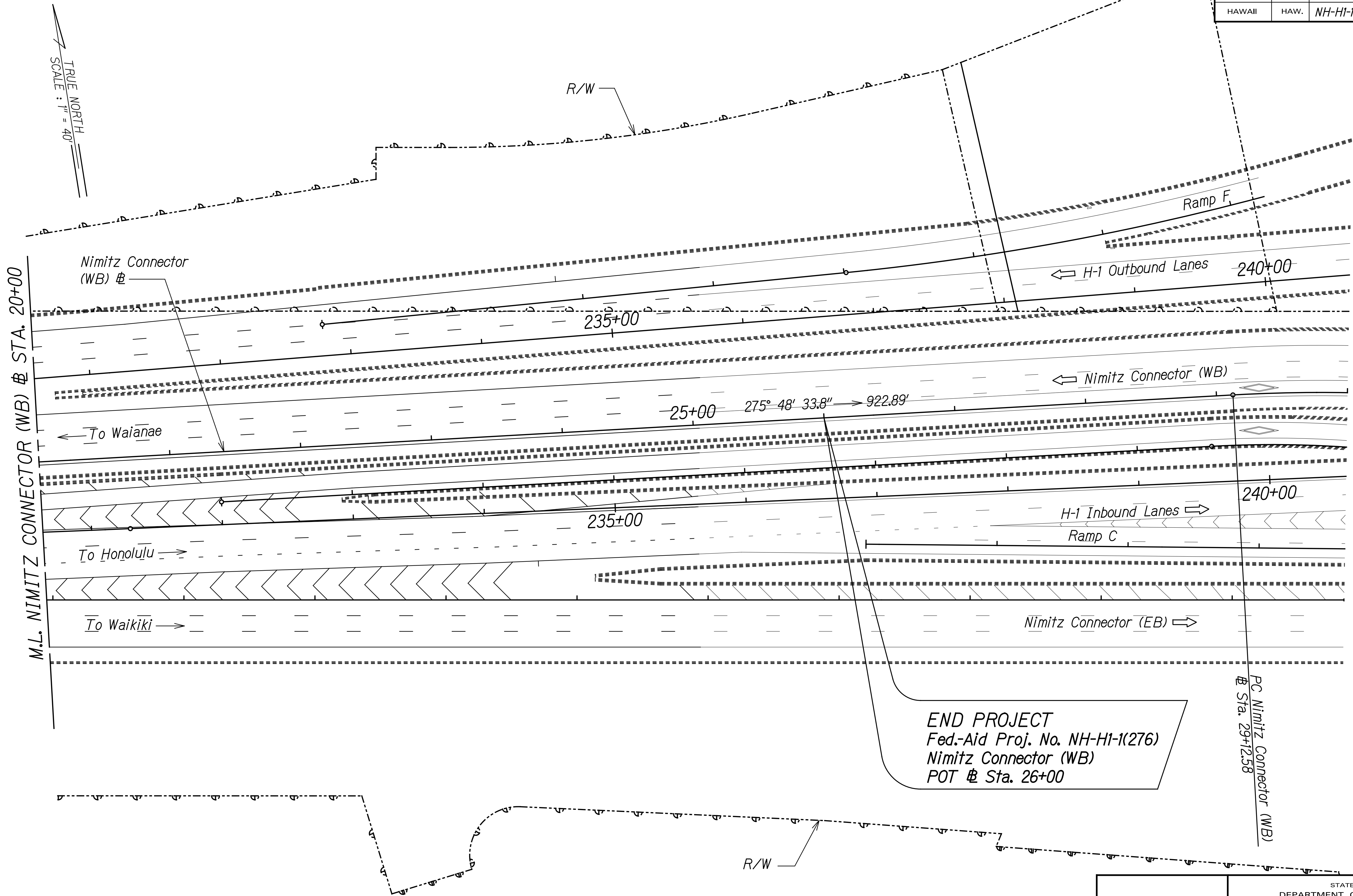
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
NIMITZ WB # STA. 10+00 TO 20+00
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)
Scale: 1" = 40' Date: Aug. 2020

SHEET No. A-12 OF 13 SHEETS

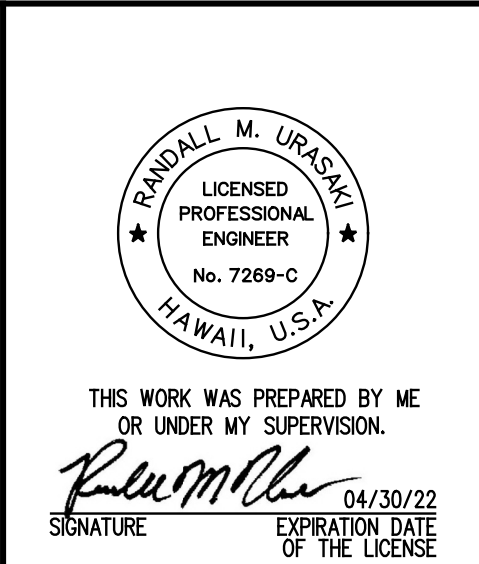
19

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	20	214



NOTE:
See Sheet A-1 for Notes.

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
NIMITZ WB @ STA. 20+00 TO 30+00
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1" = 40'
Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 20S-1	214

WA-1 CURVE DATA

$\Delta = 87^{\circ}08'14.4''$
 $R = 300.00'$
 $T = 285.37'$
 $C = 413.53'$
 $L_c = 456.25'$

WA-2 CURVE DATA

$\Delta = 89^{\circ}59'08.7''$
 $R = 420.00'$
 $T = 419.90'$
 $C = 593.90'$
 $L_c = 659.63'$

WI-2 CURVE DATA

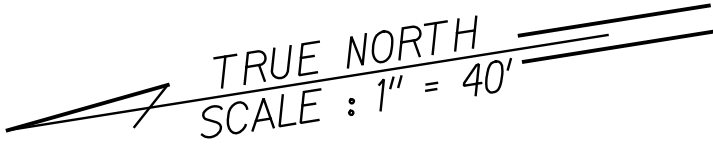
$\Delta = 42^{\circ}04'31.2''$
 $R = 425.00'$
 $T = 163.46'$
 $C = 305.13'$
 $L_c = 312.10'$

WI-3 CURVE DATA

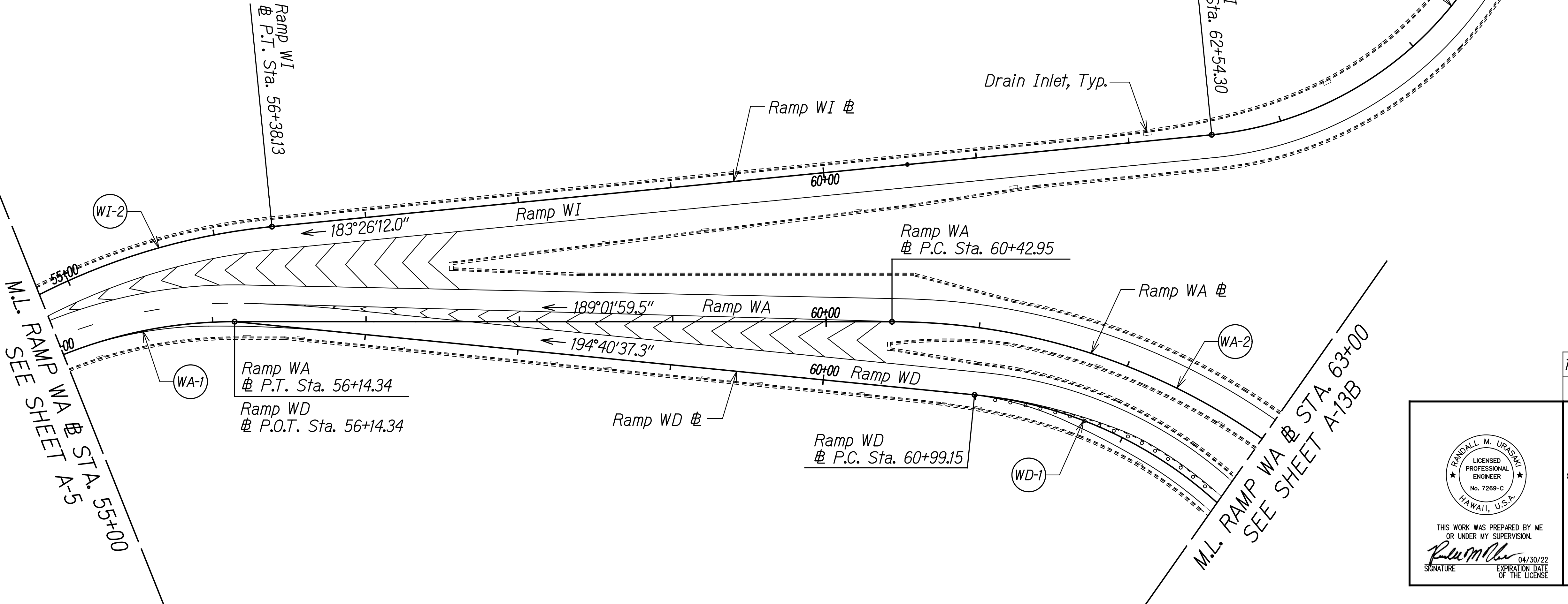
$\Delta = 84^{\circ}24'06''$
 $R = 230.00'$
 $T = 208.56'$
 $C = 309.00'$
 $L_c = 338.81'$

WD-1 CURVE DATA

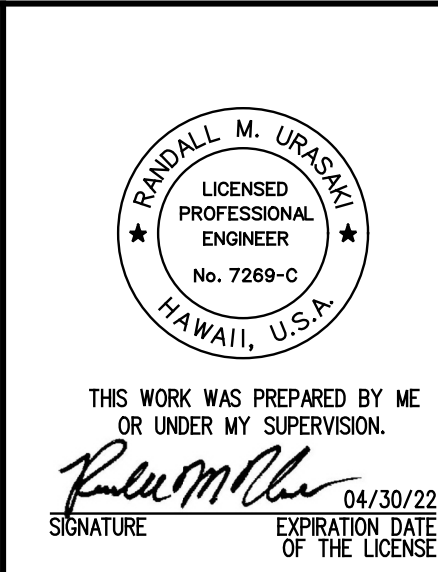
$\Delta = 91^{\circ}14'53.58''$
 $R = 275.00'$
 $T = 281.06'$
 $C = 393.12'$
 $L_c = 437.96'$



NOTE:
See Sheet A-1 for Notes.



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

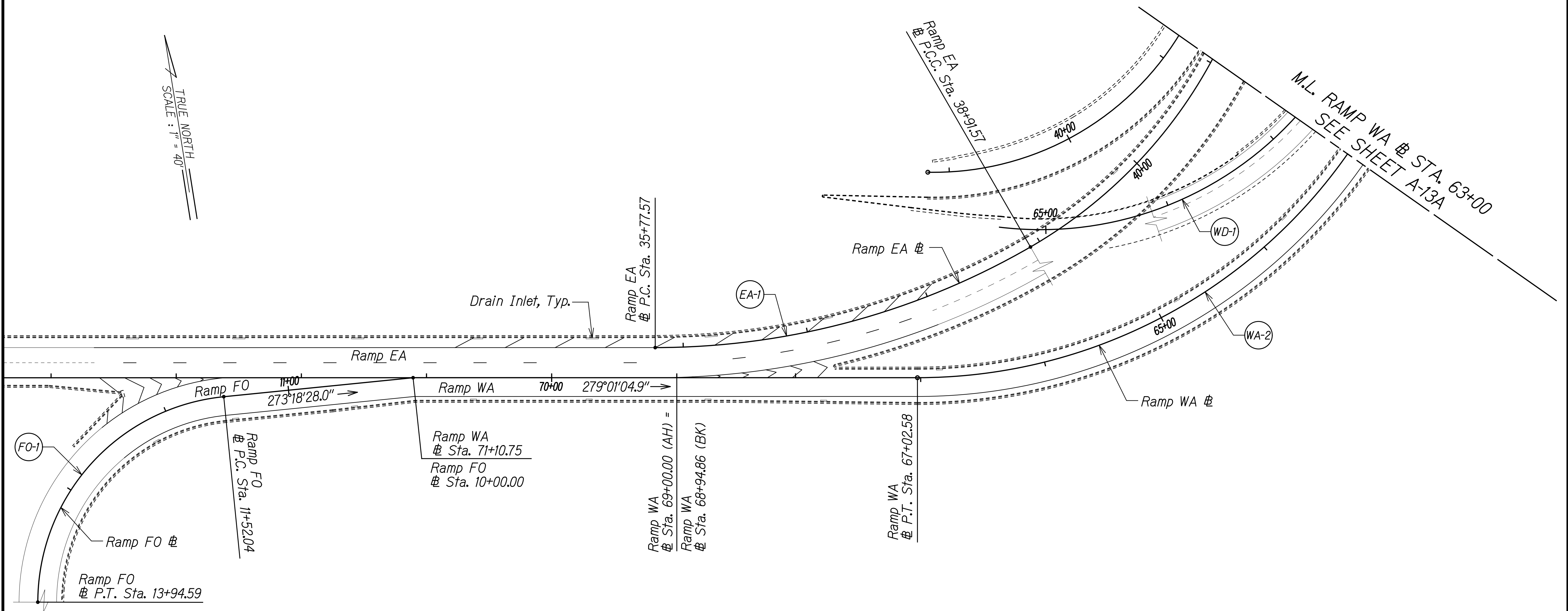


10/28/20	Added Sheet.
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ALIGNMENT & EROSION CONTROL PLAN	
RAMPS WA, WD & WI	
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2 FEDERAL-AID PROJECT NO. NH-HI-1(276)	
Scale: 1' = 40'	Date: Aug. 2020

SHEET No. A-13A OF 13 SHEETS

ADD. 20S-1

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 20S-2	214



NOTE:
See Sheet A-1 for Notes.

WD-1 CURVE DATA

$\Delta = 91^{\circ}14'53.58''$
 $R = 275.00'$
 $T = 281.06'$
 $C = 393.12'$
 $Lc = 437.96'$

WA-2 CURVE DATA

$\Delta = 89^{\circ}59'08.7''$
 $R = 420.00'$
 $T = 419.90'$
 $C = 593.90'$
 $Lc = 659.63'$

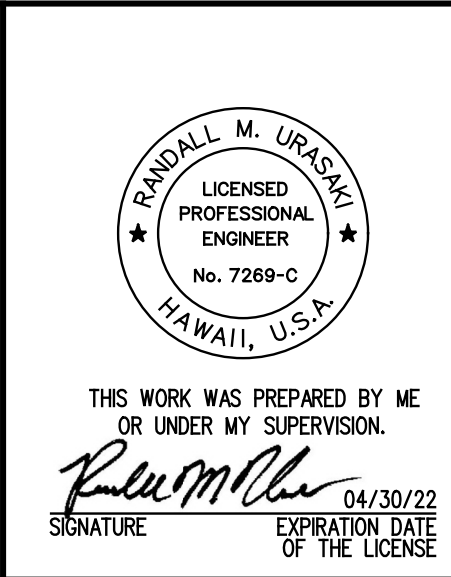
EA-1 CURVE DATA

$\Delta = 29^{\circ}59'05.25''$
 $R = 600.00'$
 $T = 160.68'$
 $C = 310.43'$
 $Lc = 314.00'$

FO-1 CURVE DATA

$\Delta = 84^{\circ}13'29.27''$
 $R = 165.00'$
 $T = 149.15'$
 $C = 221.29'$
 $Lc = 242.55'$

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



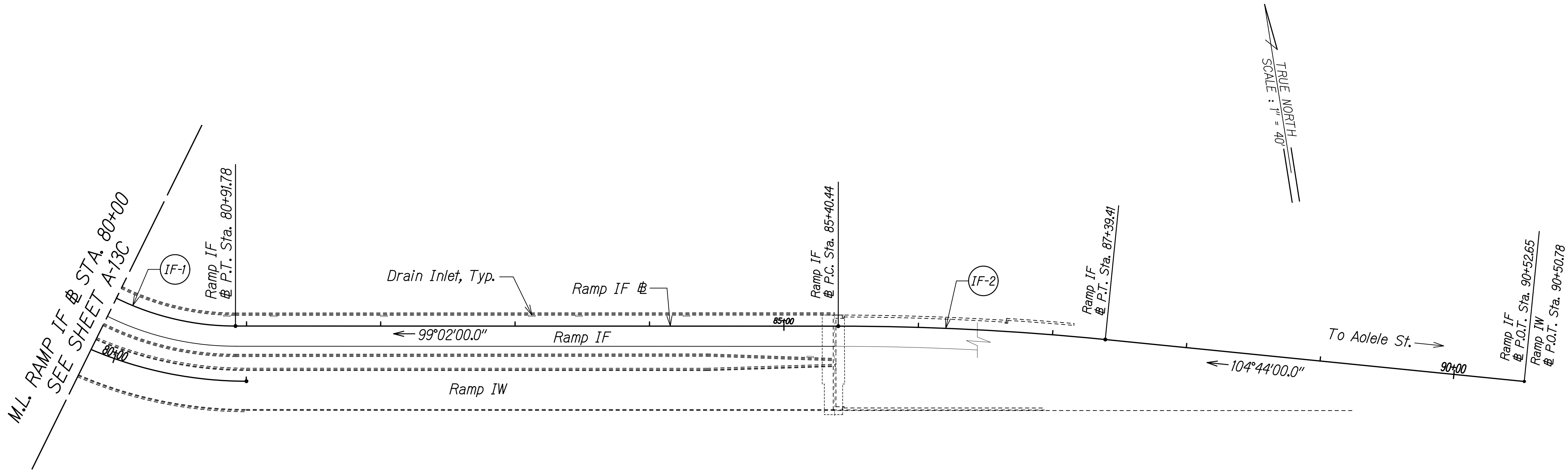
10/28/20	Added Sheet.
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
RAMPS WA, EA & FO
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1' = 40' Date: Aug. 2020

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 20S-4	214



NOTE:
See Sheet A-1 for Notes.

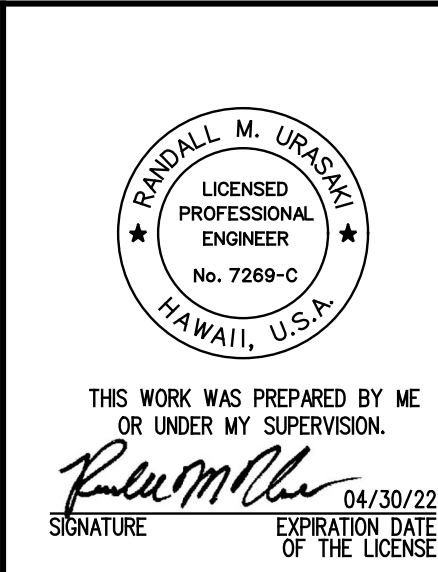
IF-1 CURVE DATA

$\Delta = 85^\circ 48' 01.55''$
 $R = 200.00'$
 $T = 185.85'$
 $C = 272.29'$
 $L_c = 299.50'$

IF-2 CURVE DATA

$\Delta = 05^\circ 42' 00.25''$
 $R = 2000.00'$
 $T = 99.57'$
 $C = 198.89'$
 $L_c = 198.97'$

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	



10/28/20	Added Sheet.
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN

RAMP IF

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1' = 40' Date: Aug. 2020