

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

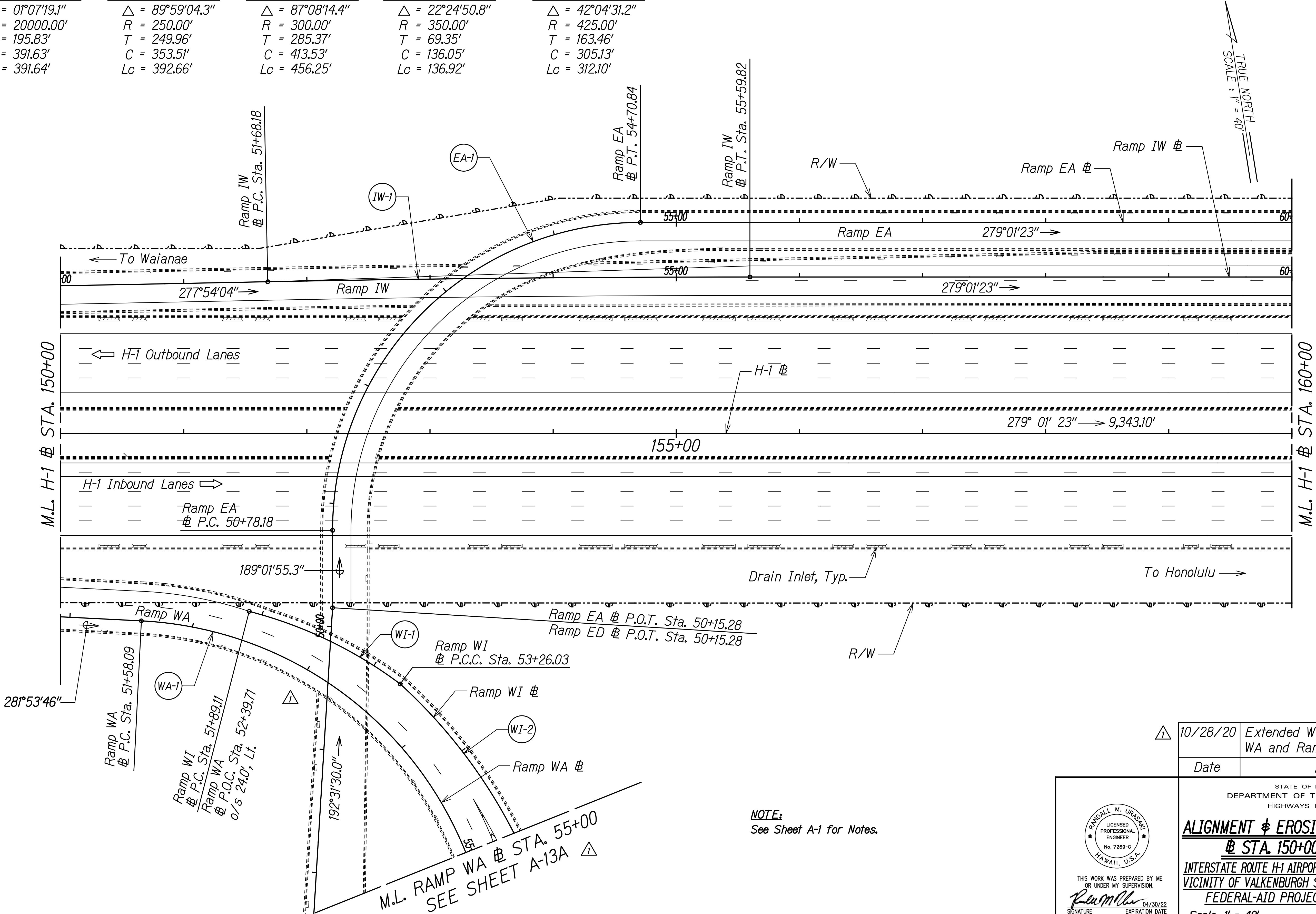
$\Delta = 87^{\circ}08'14.4''$
 $R = 300.00'$
 $T = 285.37'$
 $C = 413.53'$
 $Lc = 456.25'$

WI-1 CURVE DATA

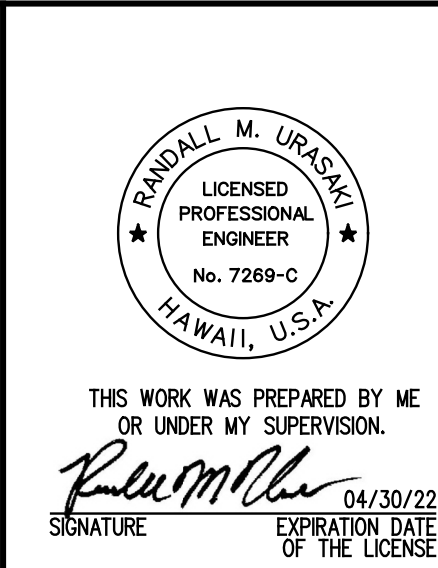
$\Delta = 22^{\circ}24'50.8''$
 $R = 350.00'$
 $T = 69.35'$
 $C = 136.05'$
 $Lc = 136.92'$

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	



Δ	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

$\Delta = 2^{\circ}48'30.9''$
 $R = 11000.00'$
 $T = 269.66'$
 $C = 539.16'$
 $Lc = 539.21'$

IW-2 CURVE DATA

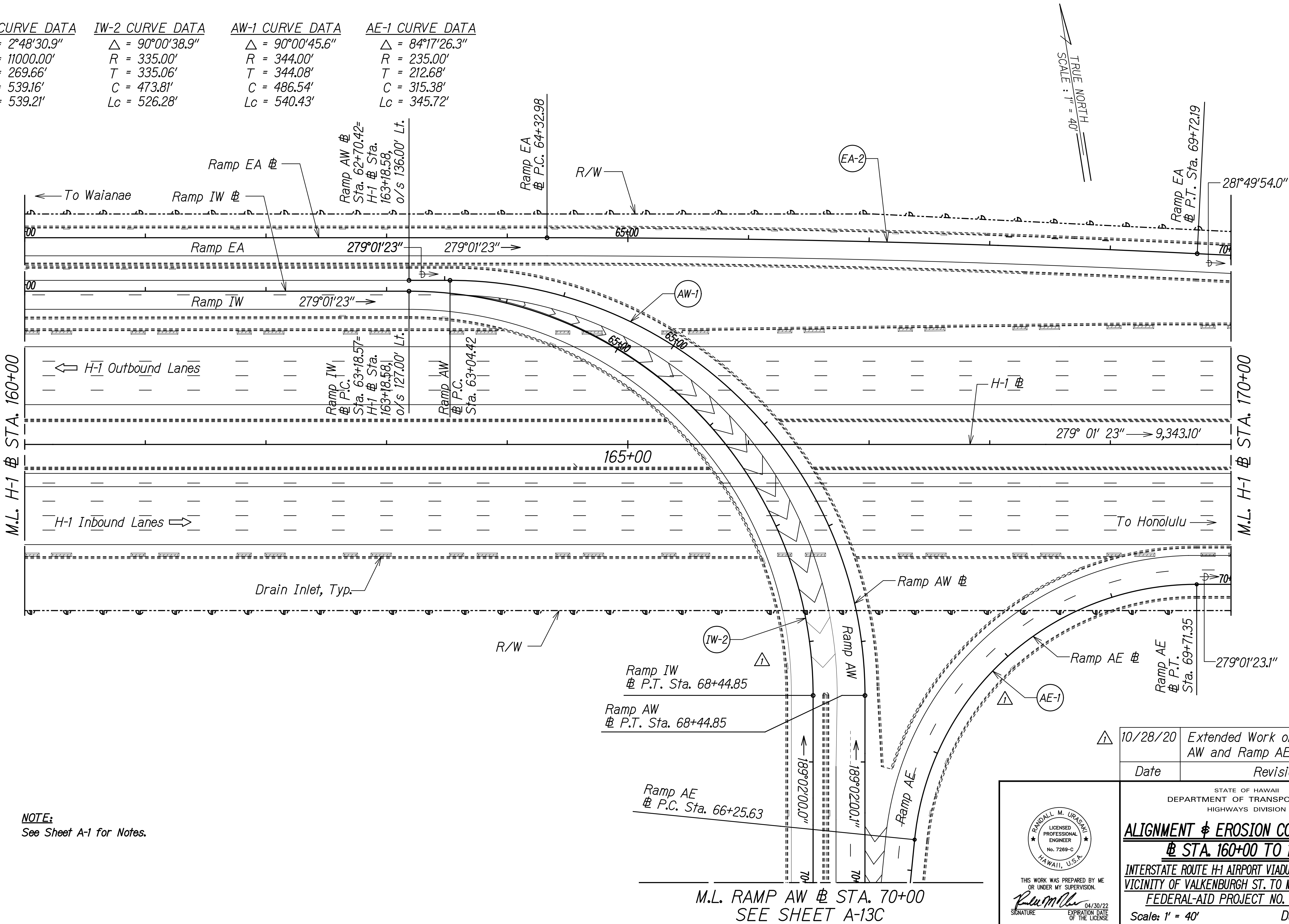
$\Delta = 90^{\circ}00'38.9''$
 $R = 335.00'$
 $T = 335.06'$
 $C = 473.81'$
 $Lc = 526.28'$

AW-1 CURVE DATA

$\Delta = 90^{\circ}00'45.6''$
 $R = 344.00'$
 $T = 344.08'$
 $C = 486.54'$
 $Lc = 540.43'$

AE-1 CURVE DATA

$\Delta = 84^{\circ}17'26.3''$
 $R = 235.00'$
 $T = 212.68'$
 $C = 315.38'$
 $Lc = 345.72'$



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

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

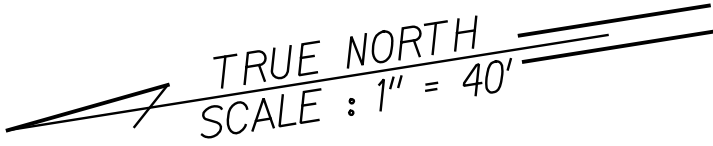
$\Delta = 42^{\circ}04'31.2''$
 $R = 425.00'$
 $T = 163.46'$
 $C = 305.13'$
 $L_c = 312.10'$

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.

Ramp WI
P.T. Sta. 65+93.11

Ramp WI
P.C. Sta. 62+54.30

Drain Inlet, Typ.

Ramp WI #

Ramp WA
P.C. Sta. 60+42.95

Ramp WA #

Ramp WA

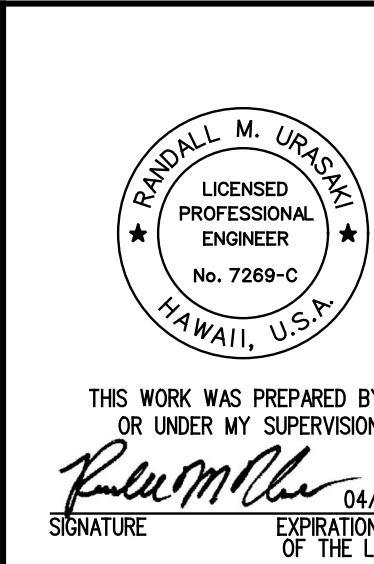
Ramp WD
P.C. Sta. 60+99.15

Ramp WD #

Ramp WA
P.T. Sta. 56+14.34
Ramp WD
P.O.T. Sta. 56+14.34

M.L. RAMP WA @ STA. 55+00
SEE SHEET A-5

M.L. RAMP WA @ STA. 63+00
SEE SHEET A-13B



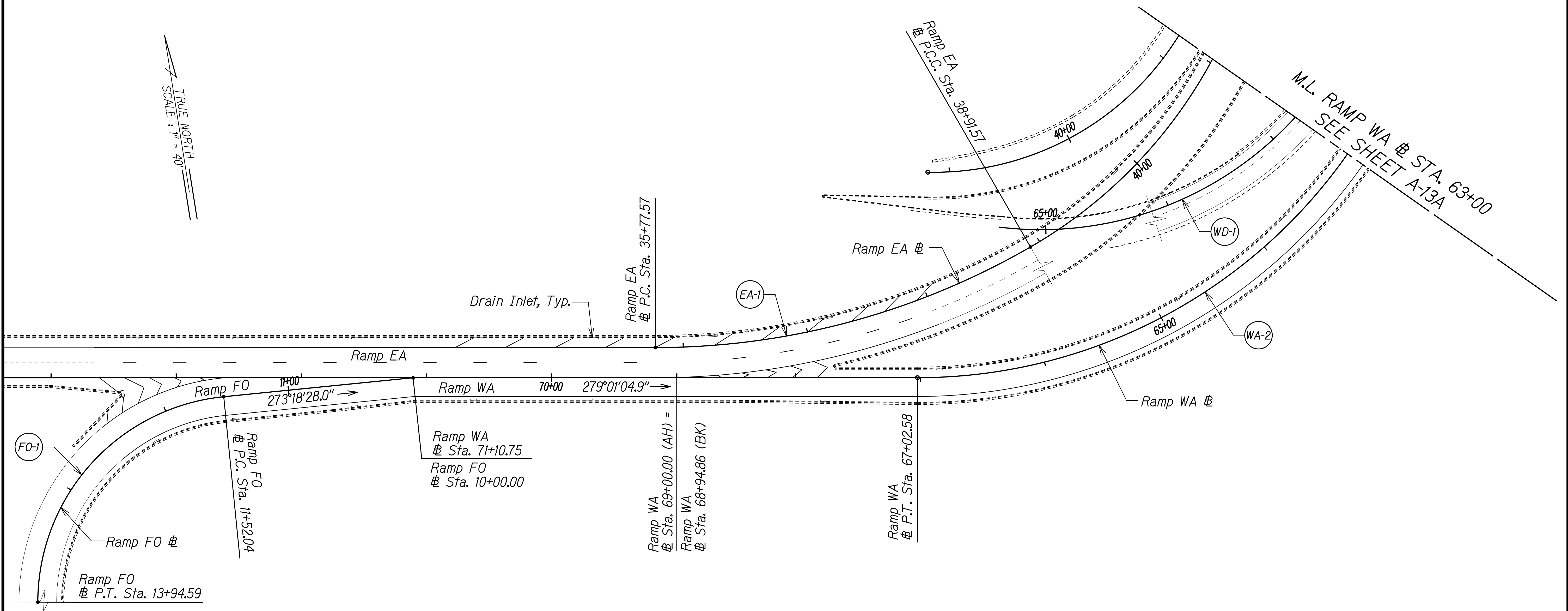
10/28/20	Added Sheet.
Date	Revision

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

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

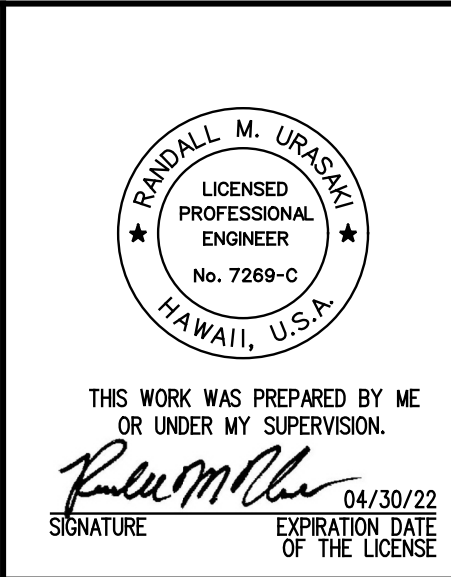
EA-1 CURVE DATA

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

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	
N ^o	



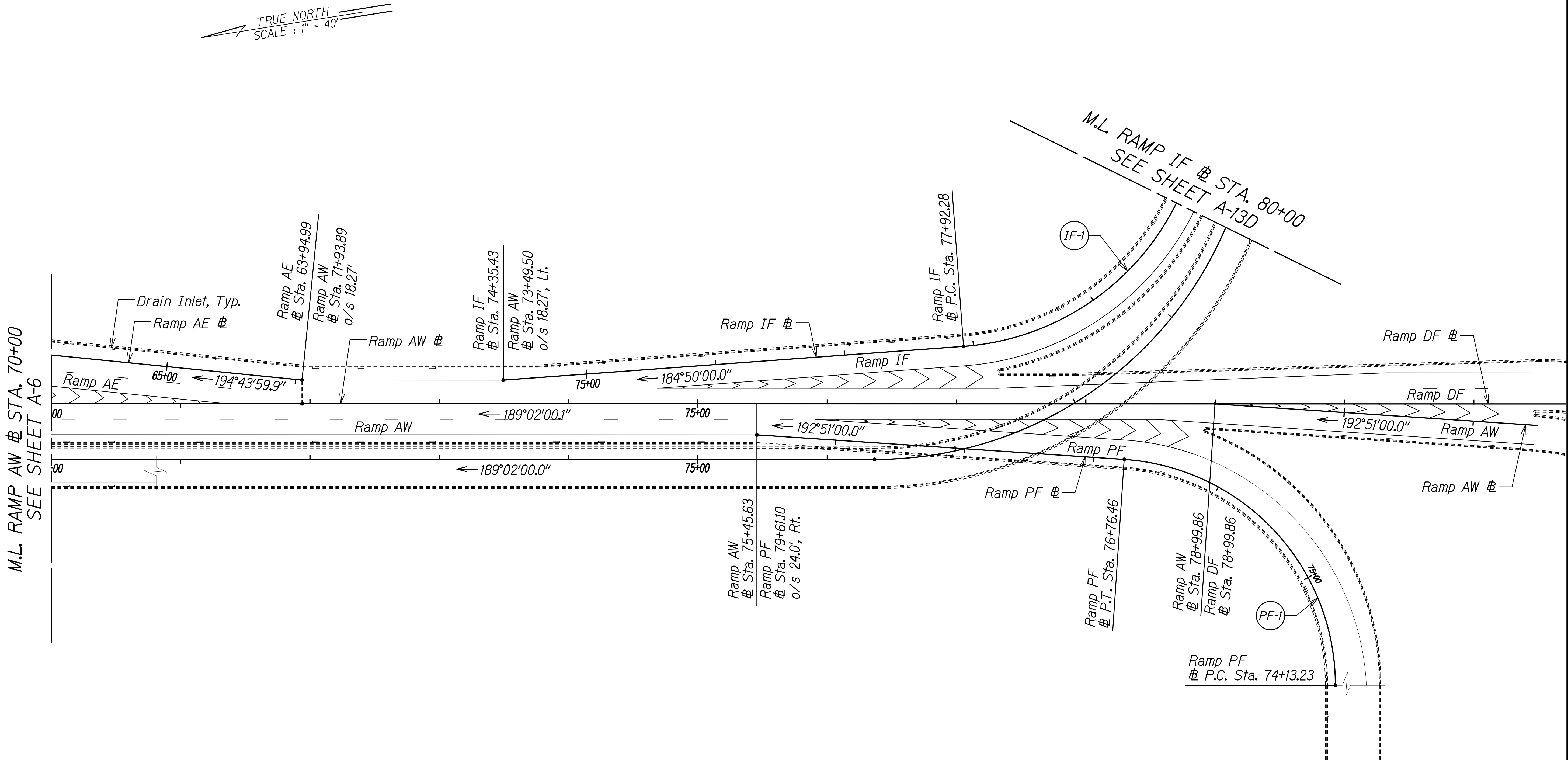
10/28/20	Added Sheet.
Date	Revision

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

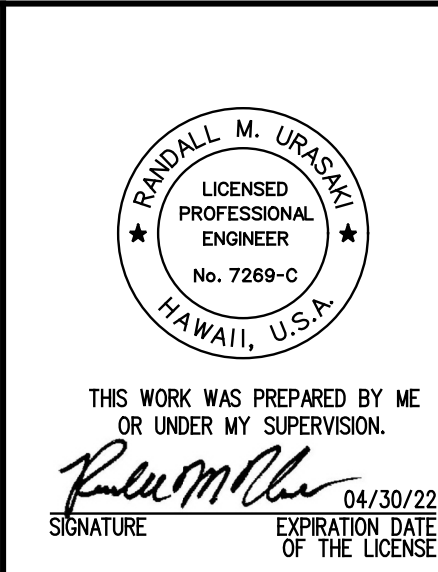
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 20S-3	214



NOTE:
See Sheet A-1 for Notes.

IF-1 CURVE DATA	PF-1 CURVE DATA
$\Delta = 85^{\circ}48'01.55''$	$\Delta = 86^{\circ}10'57.63''$
$R = 200.00'$	$R = 175.00'$
$T = 185.85'$	$T = 163.71'$
$C = 272.29'$	$C = 239.11'$
$Lc = 299.50'$	$Lc = 263.23'$

10/28/20	Added Sheet.
Date	Revision



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT & EROSION CONTROL PLAN
RAMPS AE, IF, AW & PF

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

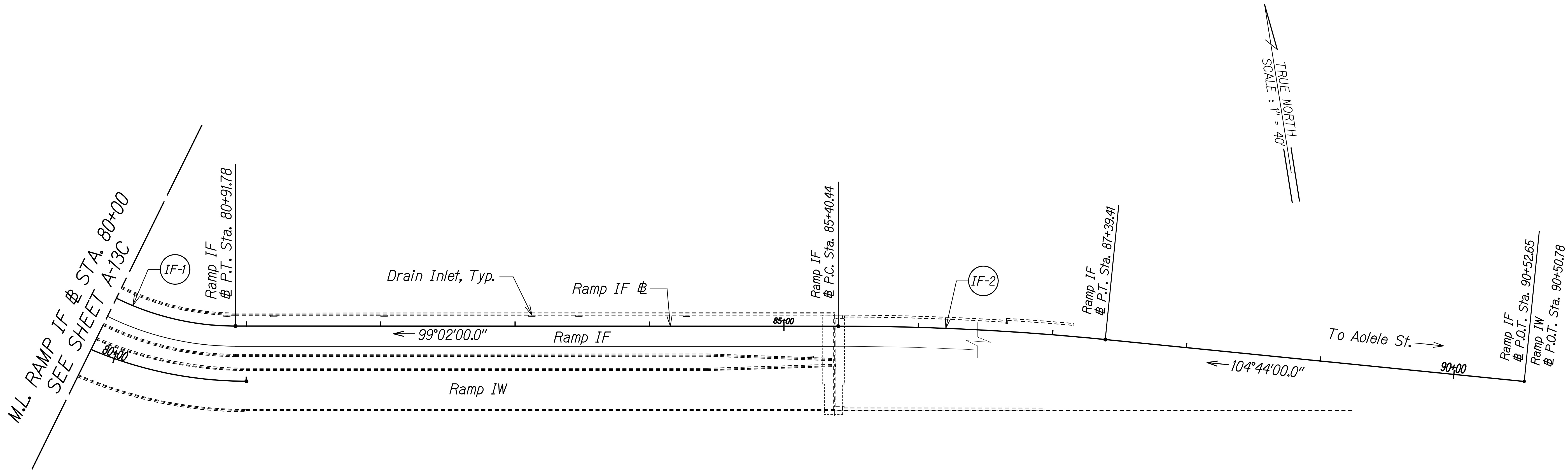
Scale: 1' = 40' Date: Aug. 2020

SHEET No. A-13C OF 13 SHEETS

ADD. 20S-3

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

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



IF-1 CURVE DATA

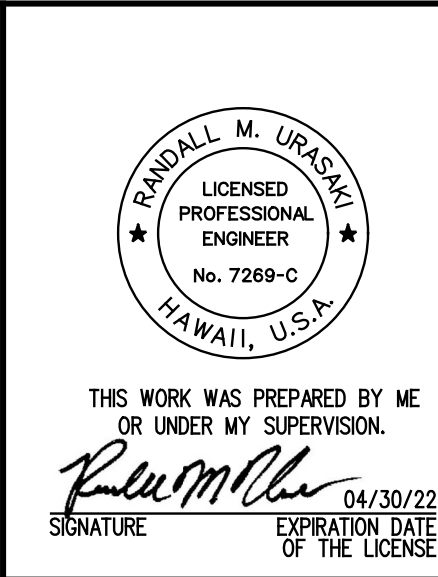
$\Delta = 85^{\circ}48'01.55''$
 $R = 200.00'$
 $T = 185.85'$
 $C = 272.29'$
 $L_c = 299.50'$

IF-2 CURVE DATA

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

NOTE:
See Sheet A-1 for Notes.

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

PAVEMENT MARKING NOTES:

1. Location of pavement markers is shown schematically. For exact location of markers in relation to stripe, see Standard Plans T-7, T-8, T-9 & T-10.
2. All pavement striping, legends and symbols shall be retroreflective thermoplastic compound pavement markings.
3. Removal of existing pavement markings shall be considered incidental to the various contract items.
4. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
5. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. The costs shall be incidental to the various pavement marking items.
6. All pavement striping shall be as noted on the legend or plans.
7. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape's manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
8. Dimension reference point for pavement markings shall be bottom of inside parapet (i.e., location where parapet intersects top of deck).

LEGEND

- ①

4" White Guide Lines (Tape, Type I or Thermoplastic Extrusion)
- ②

6" White Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- ③

6" Yellow Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- ④

8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- ⑤

4" White Profiled Thermoplastic Stripe (10'-0" Long)
See Detail Sht. P-15
Type C Raised Pavement Markers @ 40'-0" o.c.
- ⑥

12" White Transverse Marking (Tape, Type III or Thermoplastic Extrusion)
- ⑦

Lane Drop Marking
- ⑧

6" Yellow Stripe with Type H Raised Pavement Markers @ 20'-0" o.c. and 4" Yellow Profiled Thermoplastic Stripe (10'-0" Long) @ 40'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- ⑨

12" Yellow Transverse Shoulder Marking (Tape, Type III or Thermoplastic Extrusion)
- ⑩

12" White Transverse Shoulder Marking (Tape, Type III or Thermoplastic Extrusion)
- ⑪

4" Solid White Stripe with
2' Long 4" White Dash Stripe @ 6' o.c.
with White Flexible Delineators @ 10' o.c. and
2' Offset from Stripe
- HOV Pavement Marking (Tape, Type III or Thermoplastic Extrusion)
- Pavement Word (Thermoplastic Extrusion)
- Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
- Mile Marker (Tape, Type III or Thermoplastic Extrusion)
- Rumble Strip
See Detail on Sht. P-15A

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 21	214

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

	10/28/20	Added Legend Item #10 and #11 and Rumble Strip.
Date	Revision	

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

R. M. Uragami 10/30/22
SIGNATURE EXPIRATION DATE OF THE LICENSE

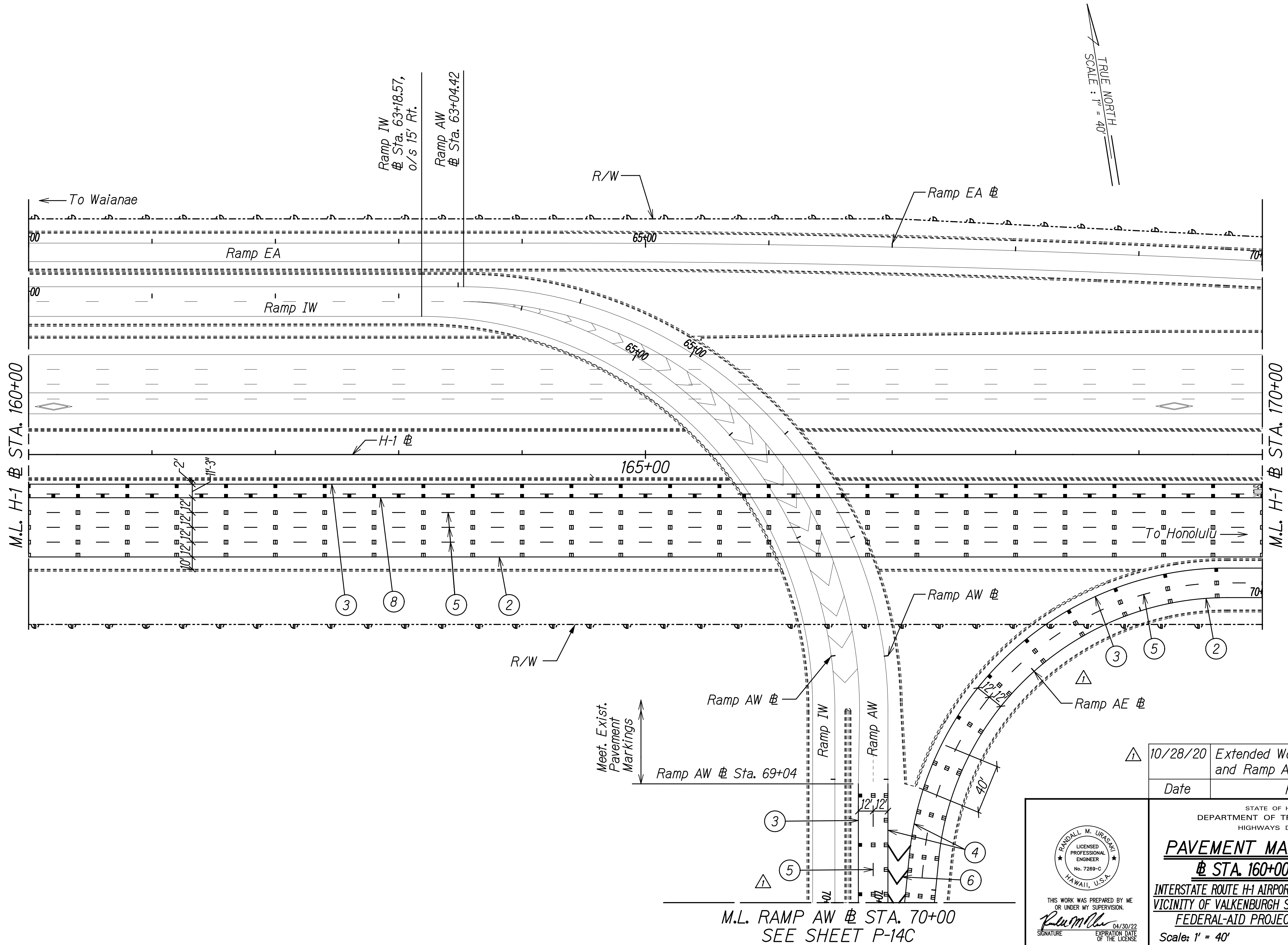
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKINGS
NOTES & LEGEND

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: None 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. 27	214



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

RANDALL M. URASAKI

LICENSED PROFESSIONAL ENGINEER

No. 7289-C

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

R. M. Urasaki

SIGNATURE

04/30/22

EXPIRATION DATE OF THE LICENSE

10/28/20	Extended Work on Ramp AW and Ramp AE.
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PAVEMENT MARKING 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

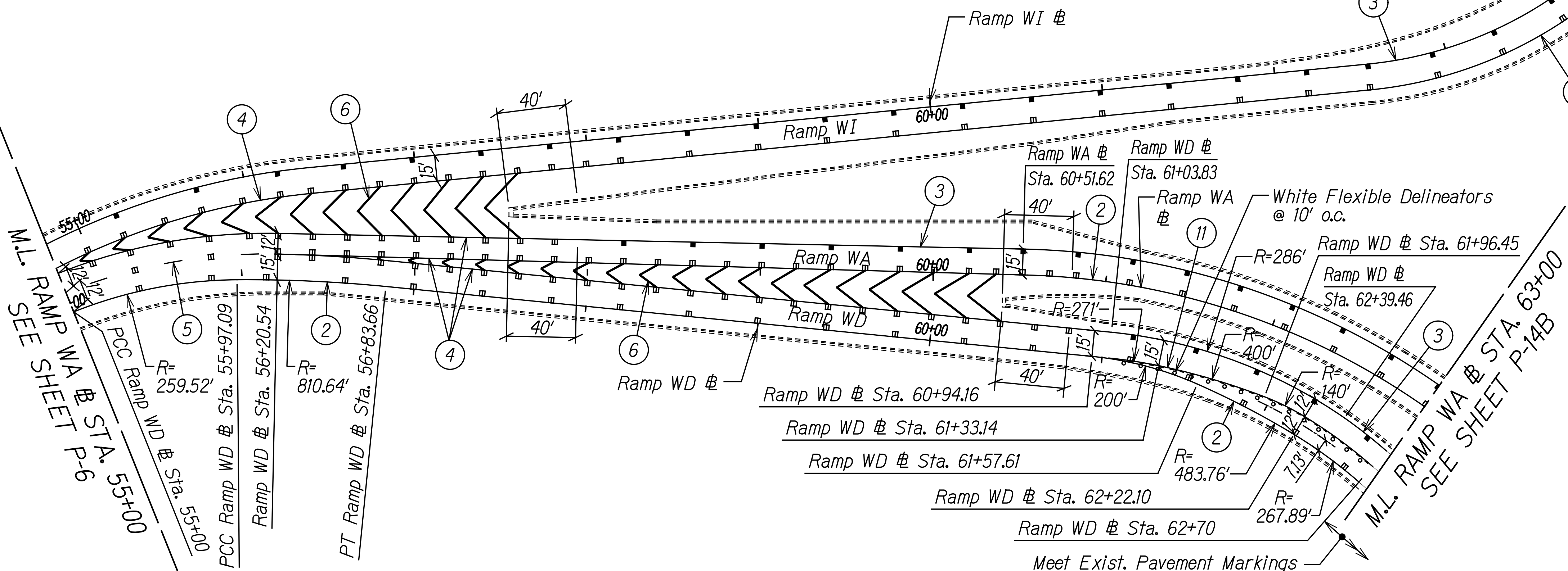
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 34S-1	214

TRUE NORTH
SCALE : 1" = 40'

Meet. Exist.
Pavement
Markings

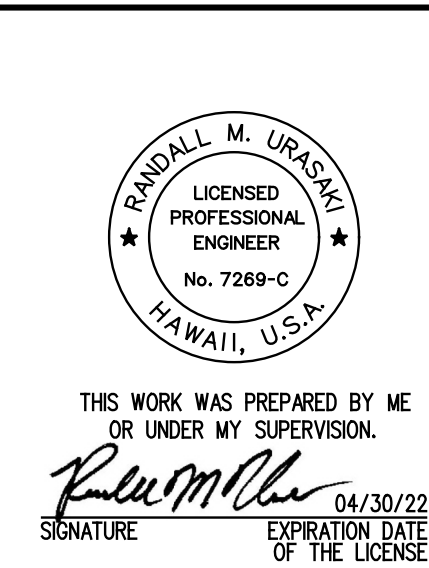
Ramp WI @ Sta. 67+75.12

To Aolele St.



SURVEY DOTTED BY	DATE
ORIGINAL PLAN	
DRAWN BY	
TRACED BY	
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
N.	

10/28/20	Added Sheet.
Date	Revision



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING PLAN
RAMPS WA, WD & WI

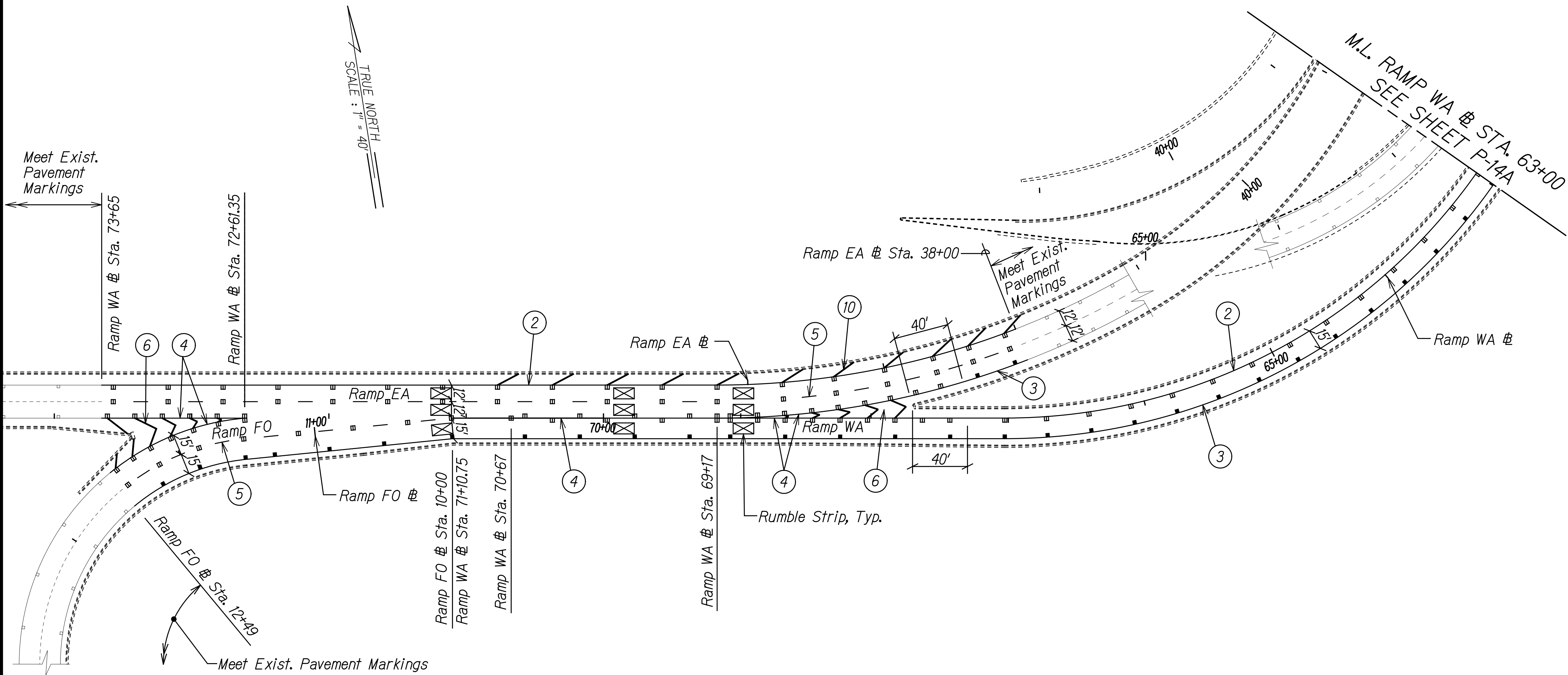
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

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

SHEET No. P-14A OF 15 SHEETS

ADD. 34S-1

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 34S-2	214



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

10/28/20	Added Sheet.
Date	Revision

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Signature: *R. Urasaki* 04/30/22
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

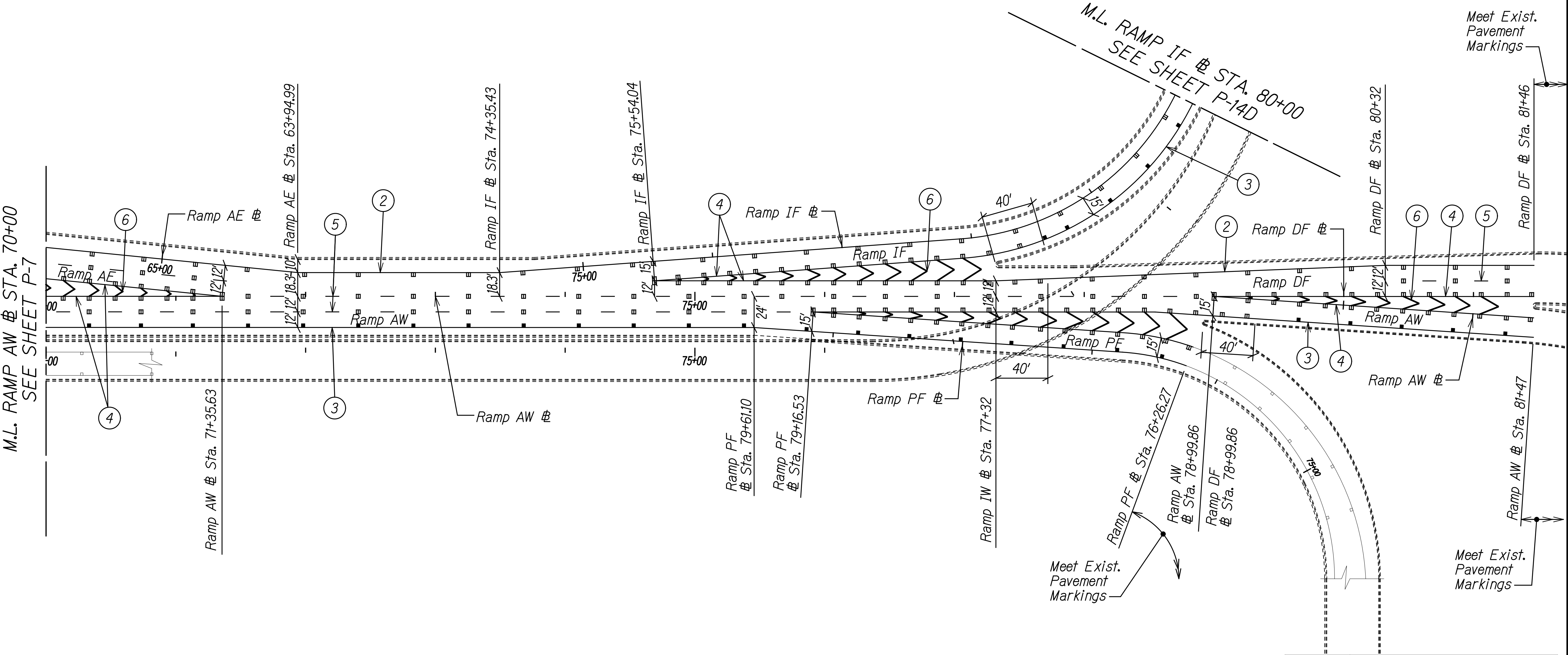
PAVEMENT MARKING PLAN
RAMPS WA, EA & FO
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)
Scale: 1' = 40' Date: Aug. 2020

SHEET No. P-14B OF 15 SHEETS

ADD. 34S-2

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 34S-3	214

TRUE NORTH
SCALE : 1" = 40'



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

10/28/20	Added Sheet.
Date	Revision

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EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING PLAN
RAMPS AE, IF, AW & PF

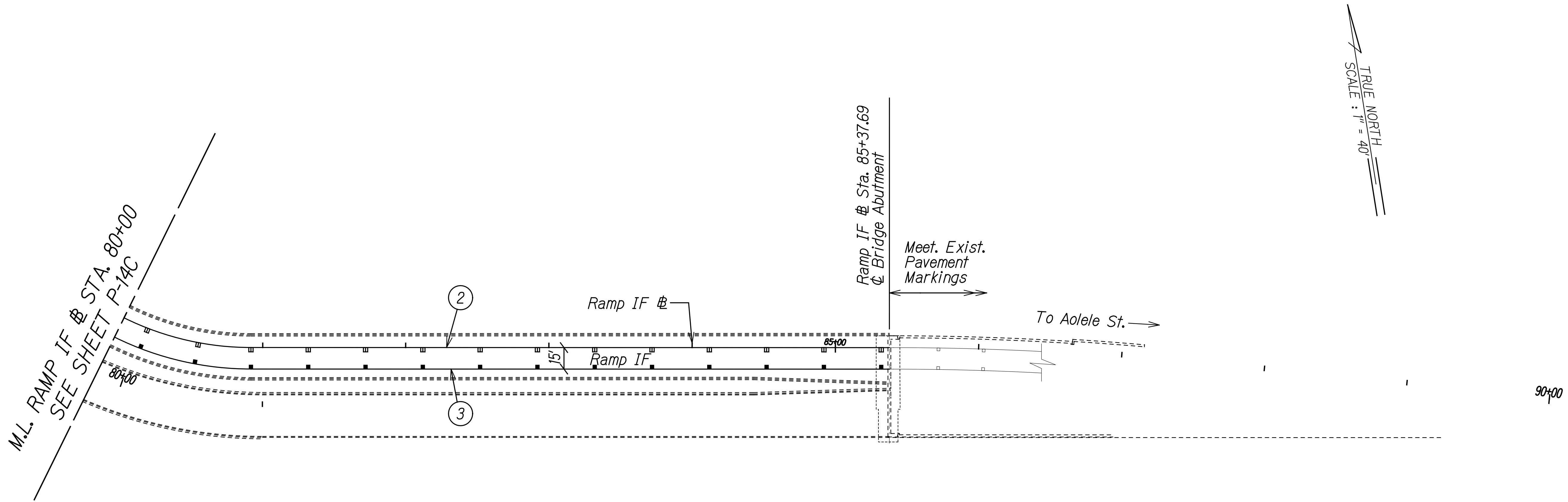
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

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

SHEET No. P-14C OF 15 SHEETS

ADD. 34S-3

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 34S-4	214



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

10/28/20	Added Sheet.
Date	Revision

RANDALL M. URAGAMI

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

PAVEMENT MARKING 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'

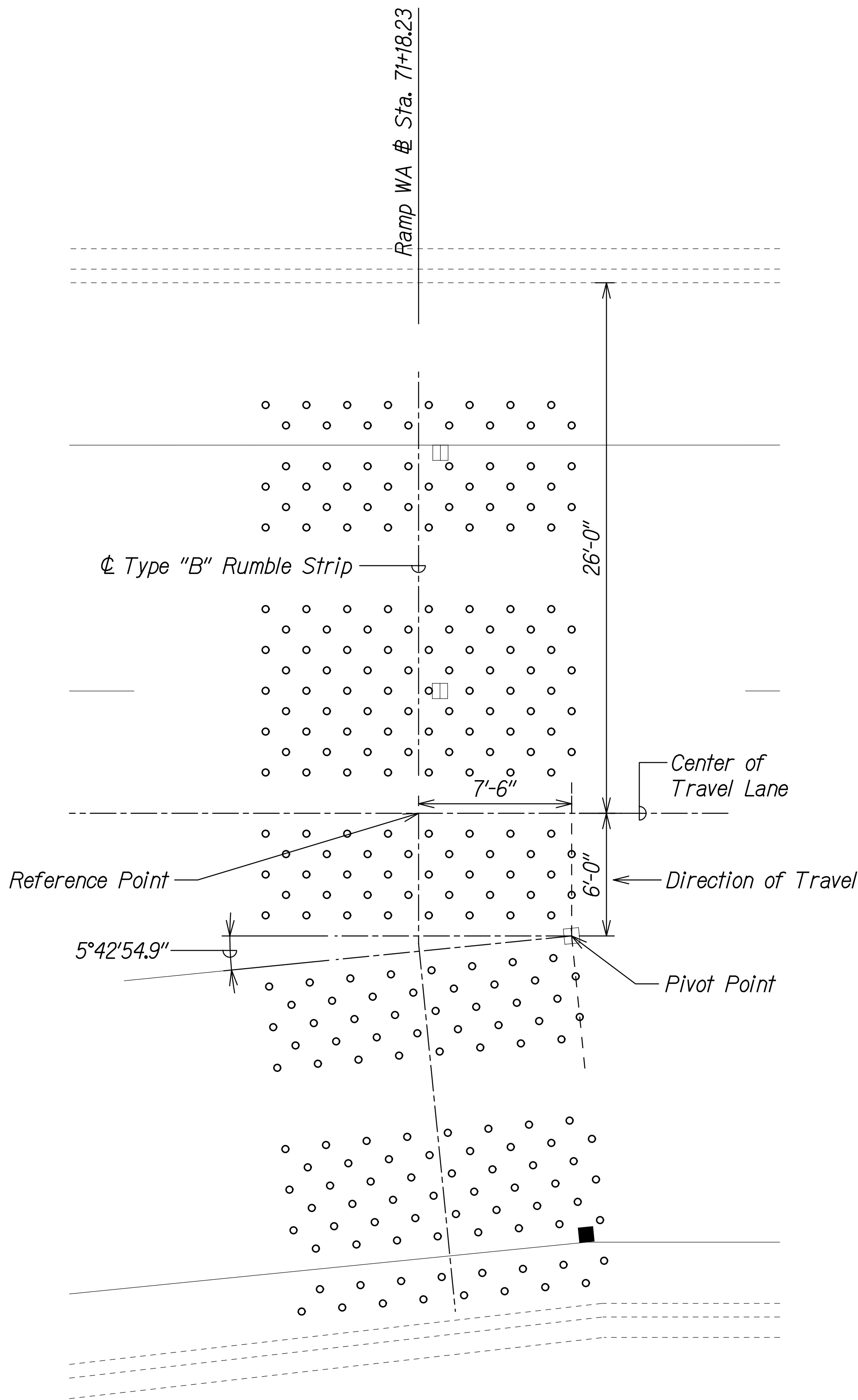
Date: Aug. 2020

SHEET No. P-14D OF 15 SHEETS

ADD. 34S-4

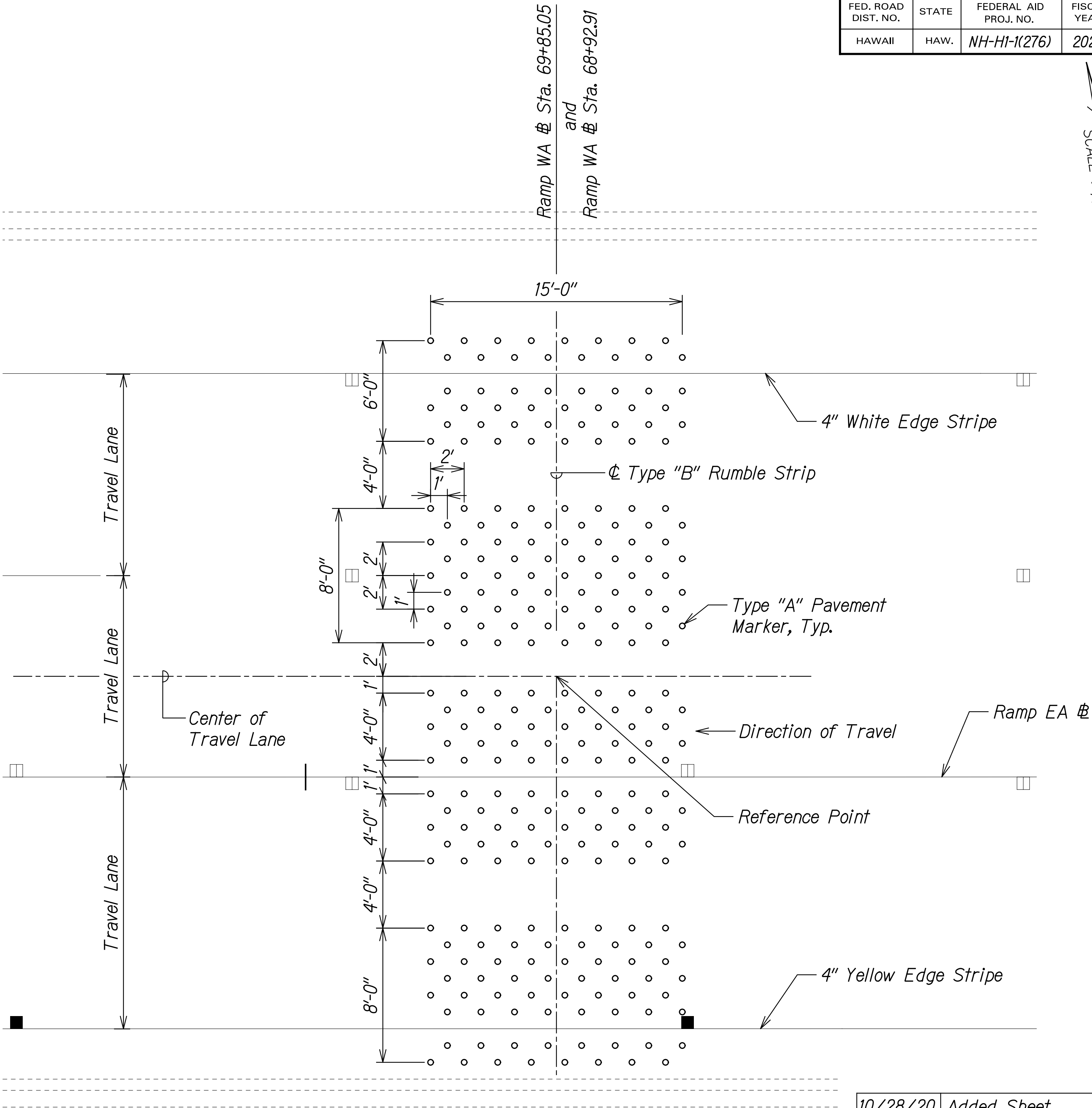
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 35S-1	214

TRUE NORTH
SCALE: 1/4" = 1'



NOTE:
Contractor to locate Rumble Strip based on the center line and reference point as shown on detail

RUMBLE STRIP DETAIL (TYPE "B")
Scale: 1/4"=1'-0"



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

10/28/20	Added Sheet.
Date	Revision

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EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**RUMBLE STRIP
PAVEMENT MARKING DETAIL**

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: 1/4" = 1'-0" Date: Aug. 2020

Construction Phasing Schedule			
H-1 Traffic Control with Corresponding Nimitz Highway Traffic Control			
H-1 VIADUCT		NIMITZ HIGHWAY / AIRPORT ROADWAYS	
Phase	Description	Phase	Description
E1	Close Eastbound Right Shoulder thru Lane 4. Maintain 3 Lanes (1 thru 3) for traffic. Lane 4 is a buffer lane between traffic.	NE1	Close Eastbound Lanes 2 and 3 and Right Auxiliary Lane
		NE2	Close Frontage Roads, when applicable
E2	Close Eastbound Right Shoulder thru Lane 3. Maintain 2 Lanes (1 and 2) for traffic. Lane 3 is a buffer lane between traffic.	NE1	Close Eastbound Lanes 2 and 3 and Right Auxiliary Lane
		NE2	Close Frontage Roads, when applicable
E3	Close Eastbound Shoulder Lane 1 thru Lane 3, Maintain 2 Lanes (4 and 5) for traffic. Lane 3 is a buffer lane between traffic.	NE3	Close Eastbound Lanes 1 and 2, Median Auxiliary Lane, and Median Shoulder
E4	Close Eastbound Shoulder Lane 1 thru Lane 4, Maintain 1 Lane (Lane 5) for traffic. Lane 4 is a buffer lane between traffic. This closure is primarily for work in Lane 3 and should not be used for other Lane work.	NE3	Close Eastbound Lanes 1 and 2, Median Auxiliary Lane, and Median Shoulder or, if more applicable Close Eastbound Lanes 2 and 3 and Right Auxiliary Lane
WA	Close Eastbound Off-Ramp to Airport (Ramp WA)	NE2	Close Frontage Roads See Note 6.
AE	Close Eastbound On-Ramp from Airport (Ramp AE)	NE2	Close Frontage Roads See Note 6.
W1	Close Westbound Right Shoulder thru Lane 3. Maintain 2 Lanes (1 & 2) for traffic. Lane 3 is a buffer lane between traffic.		Nimitz Westbound open, no lane closures
W2	Close Westbound Right Shoulder thru Lane 2. Maintain 1 Lane (Lane 1) for traffic. Lane 2 is a buffer lane between traffic.		Nimitz Westbound open, no lane closures
W3	Close Westbound Median Shoulder thru Lane 2, Maintain 2 thru Lanes (3 and 4) for traffic. Lane 2 is a buffer lane between traffic.		Nimitz Westbound open, no lane closures
W4	Close Westbound Median Shoulder thru Lane 3, Maintain 1 Lane (Lane 4) for traffic. Lane 3 is a buffer lane between traffic. This closure is primarily for work in Lane 2 and should not be used for other Lane work.		Nimitz Westbound open, no lane closures
IW	Close Westbound On-Ramp from Airport (Ramp IW)		Nimitz Westbound open, no lane closures See Note 6.
EA	Close Westbound Off-Ramp to Airport (Ramp EA)		Nimitz Westbound open, no lane closures

The diagram illustrates the lane configurations and traffic phases for the H-1 Viaduct, divided into Westbound and Eastbound directions.

Westbound:

- Phases IW/EA:** Corresponds to the top two lanes: *Shoulder* and *Ramp/Auxiliary Lane (where present)*.
- Phase W4:** Corresponds to the next three lanes: *Lane 4*, *Lane 3*, and *Lane 2*.
- Phase W3:** Corresponds to the bottom two lanes: *Lane 1* and *Shoulder*.

Eastbound:

- Phase E3:** Corresponds to the top two lanes: *Shoulder Lane 1* and *HOV/Lane 2*.
- Phase E4:** Corresponds to the next three lanes: *Lane 3*, *Lane 4*, and *Lane 5*.
- Phases WA/AE:** Corresponds to the bottom two lanes: *Ramp/Auxiliary Lane (where present)* and *Shoulder*.

The diagram also includes a legend for lane types: *Shoulder* (hatched pattern), *Ramp/Auxiliary Lane (where present)* (solid line), and *Lane* (solid line with arrow).

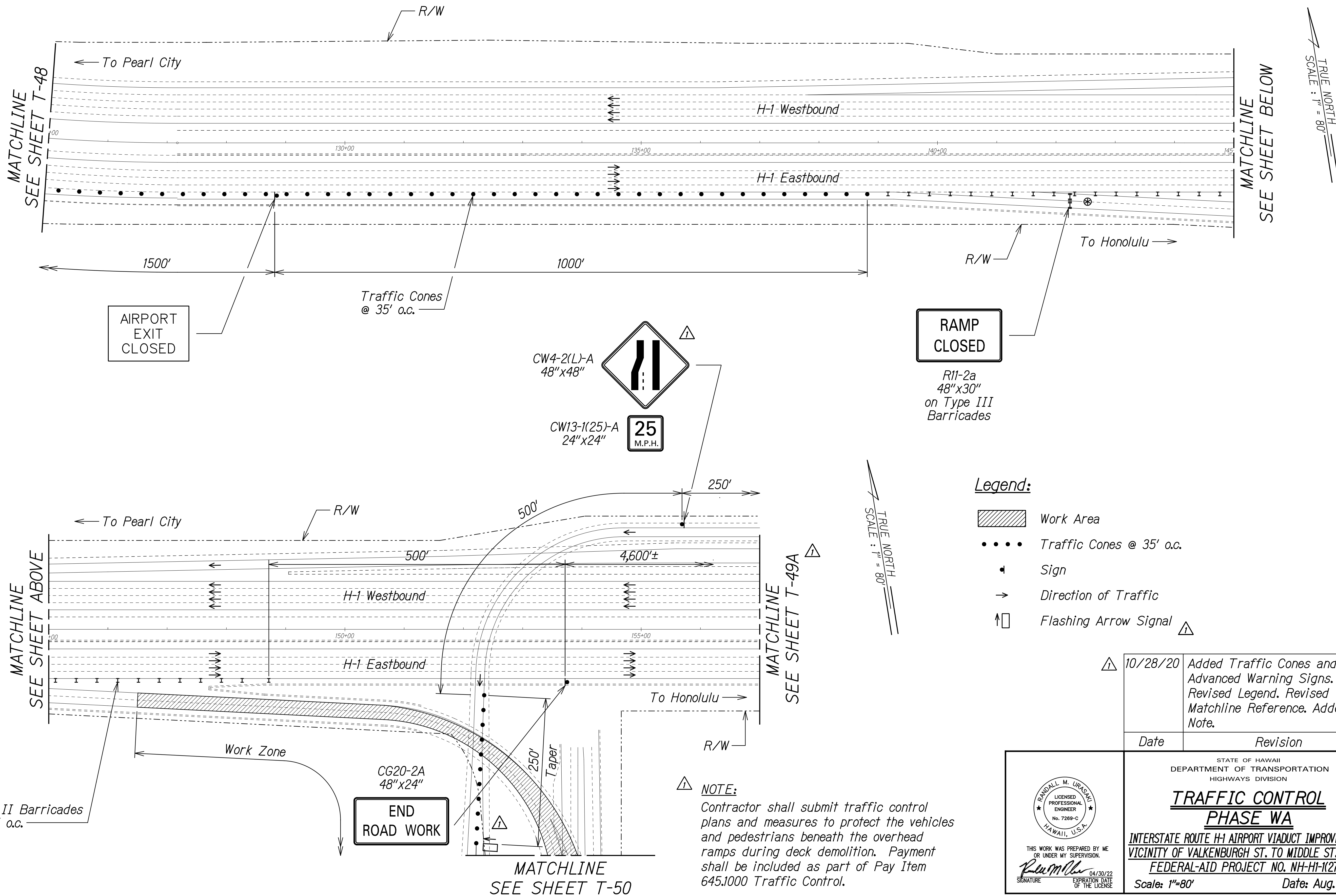
NIMITZ HIGHWAY

	STATE OF HAWAII
	DEPARTMENT OF TRANSPORTATION
	HIGHWAYS DIVISION
	<u><u>CONSTRUCTION</u></u> <u><u>PHASING NOTES</u></u>
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  SIGNATURE	<u>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</u> <u>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</u> <u>FEDERAL-AID PROJECT NO. NH-HI-1(276)</u>
	04/30/22 EXPIRATION DATE OF THE LICENSE
	Scale: None Date: Aug. 2020

ADD. 39

△ 6. Contractor shall submit traffic control plans and measures to protect the vehicles and pedestrians beneath the overhead airport ramps during deck demolition. Payment shall be included as part of Pay Item 645.1000 Traffic Control.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 84	214



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EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL
PHASE WA**

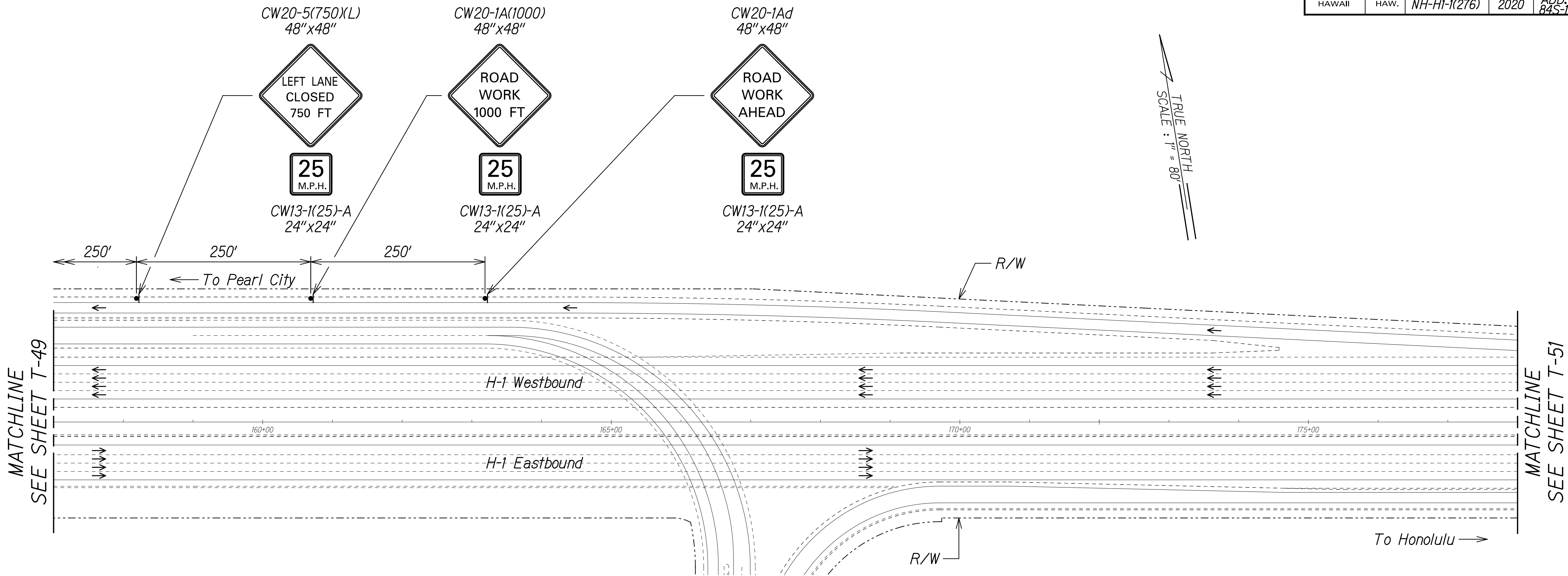
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1"=80' Date: Aug. 2020

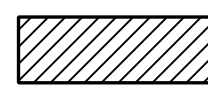
Date	Revision
10/28/20	Added Traffic Cones and Advanced Warning Signs. Revised Legend. Revised Matchline Reference. Added Note.

SHEET No. T-49 OF 123 SHEETS

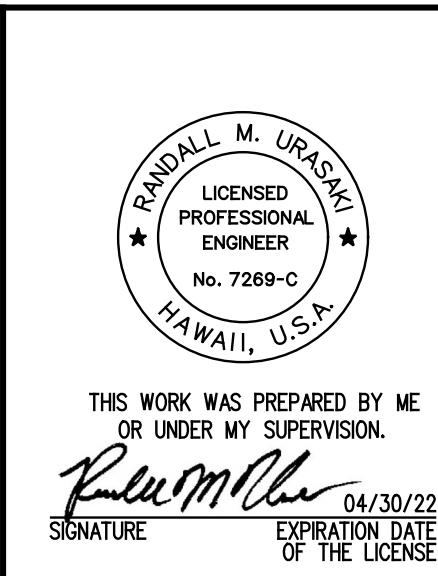
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 84S-1	214



Legend:

-  Work Area
-  Traffic Cones @ 35' o.c.
-  Sign
-  Direction of Traffic

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ORIGINAL PLAN	
NOTE BOOK	
No.	



10/28/20	New Sheet
Date	Revision

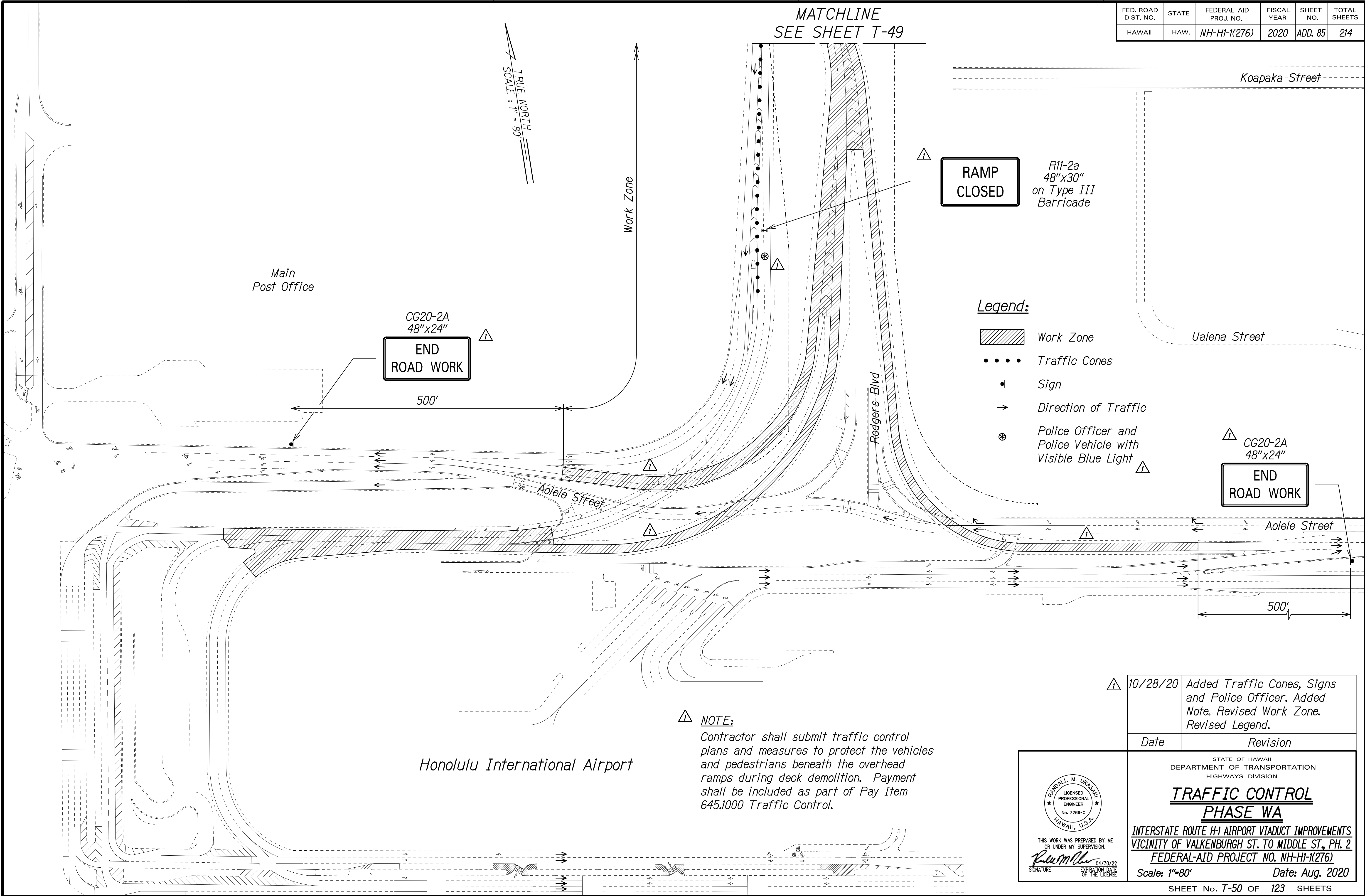
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL
PHASE WA**

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

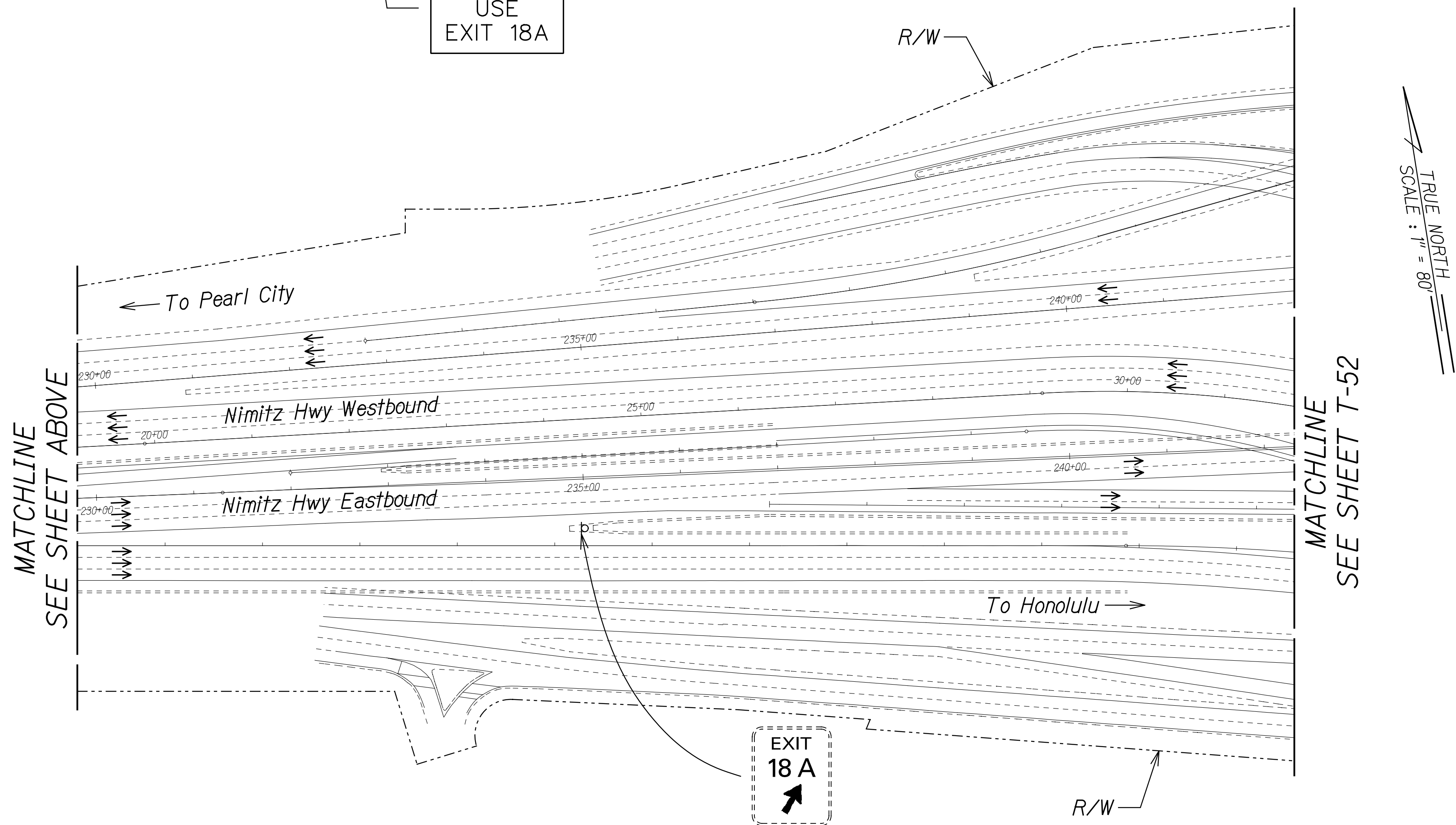
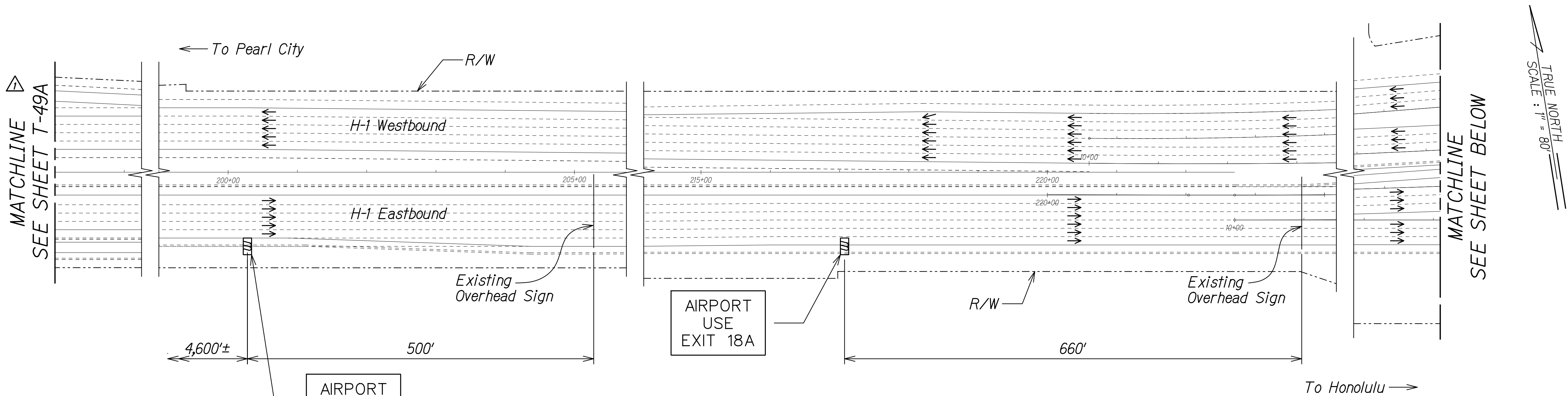
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 85	214



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 86	214



Legend:

- Existing Sign
- Portable Message Board
- Direction of Traffic

SURVEY PLOTTED BY	DATE
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DESIGNED BY	
QUANTITIES BY	
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No.	

Date	Revised Matchline Reference
10/28/20	

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

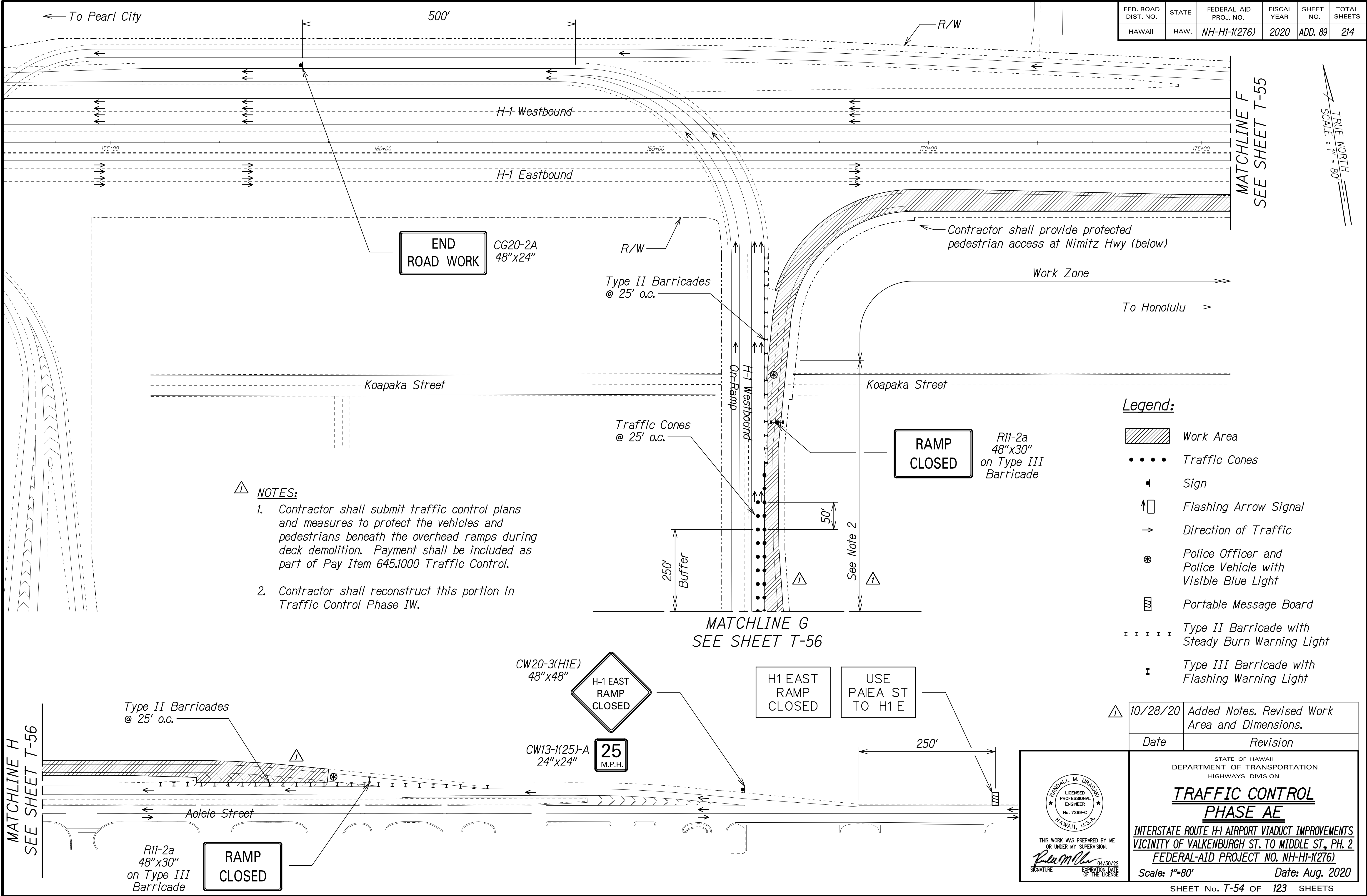
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL
PHASE WA**

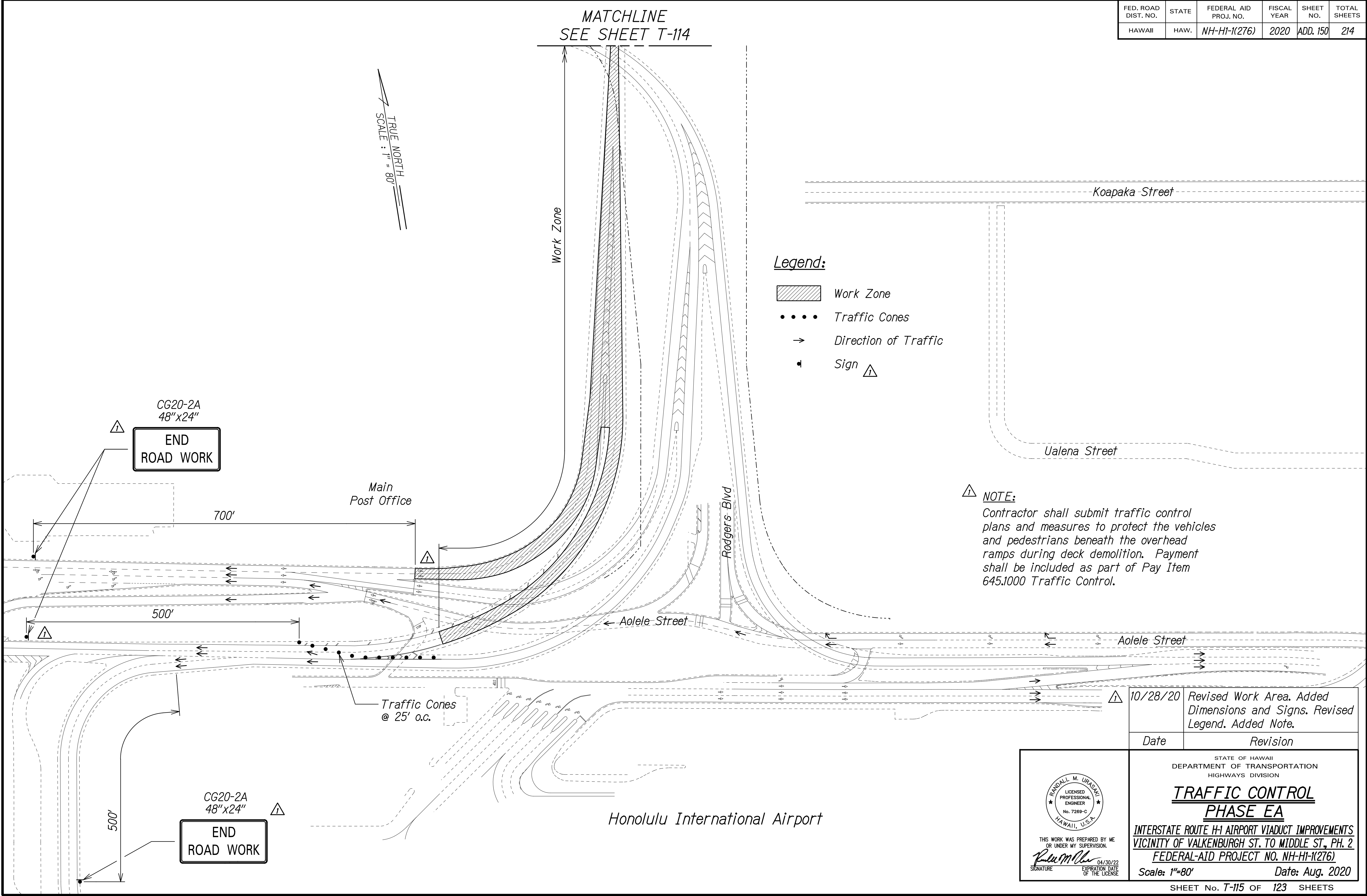
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: 1"=80' 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. 89	214



FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 150	214



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HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 157	214

TRUE NORTH
SCALE : 1" = 80'

MATCHLINE A
SEE SHEET T-121

← To Pearl City Work Zone

H-1 Westbound

H-1 Eastbound

R/W

R/W



Work Zone

To Honolulu →

Koapaka Street

Koapaka Street

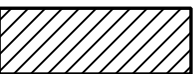


NOTE:

Contractor shall submit traffic control plans and measures to protect the vehicles and pedestrians beneath the overhead ramps during deck demolition. Payment shall be included as part of Pay Item 645.1000 Traffic Control.



Legend:



Work Area



Direction of Traffic

MATCHLINE B
SEE SHEET T-123

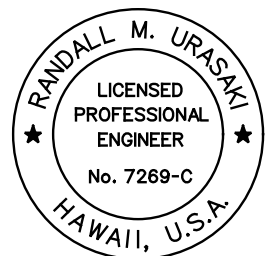


10/28/20

Revised Work Area. Deleted Signs, Dimensions and Cones. Moved Matchline C to Sheet T-122A. Revised Legend. Added Note.

Date

Revision



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OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL
PHASE 1W**

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

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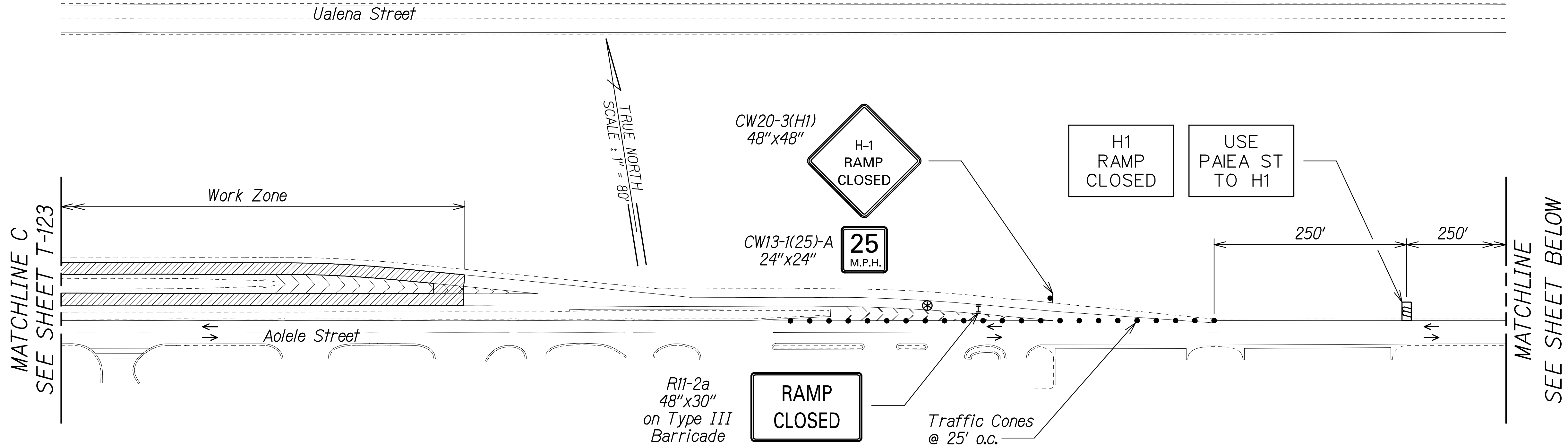
Date: Aug. 2020

SHEET No. T-122 OF 123 SHEETS

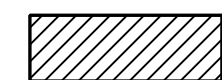
ADD. 157

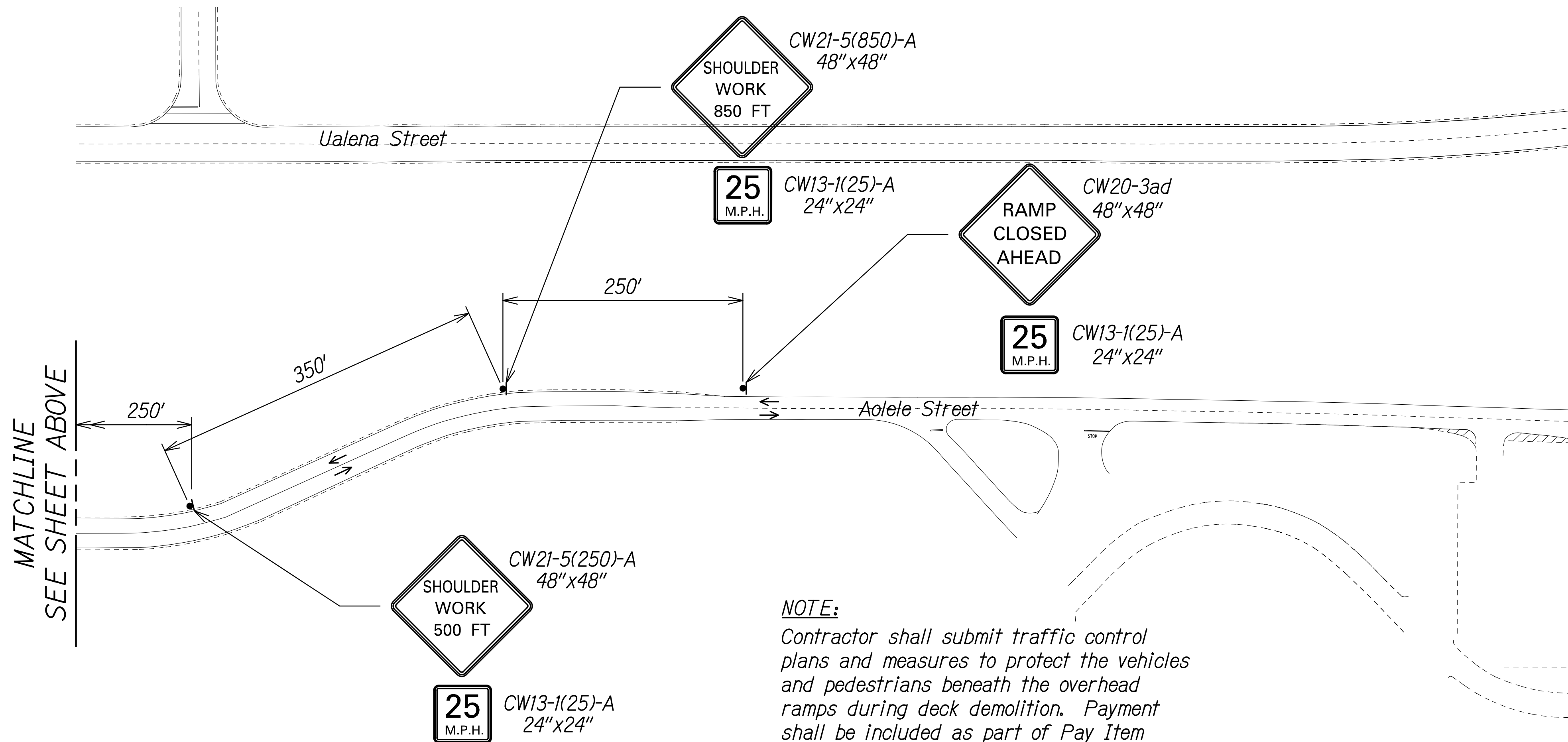
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 157S-1	214



Legend:

-  Work Area
-  Traffic Cones
-  Sign
-  Direction of Traffic
-  Police Officer and Police Vehicle with Visible Blue Light
-  Portable Message Board
-  Type III Barricade with Flashing Warning Light

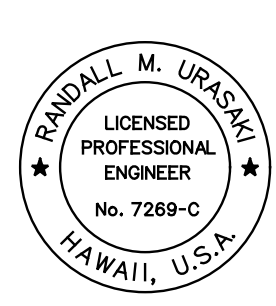


NOTE:

Contractor shall submit traffic control plans and measures to protect the vehicles and pedestrians beneath the overhead ramps during deck demolition. Payment shall be included as part of Pay Item 645.1000 Traffic Control.

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10/28/20	New Sheet. Moved Matchline C from Sheet T-122 to this Sheet. Added Signs, Dimensions and Note.
Date	Revision



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R. M. Urasaki

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04/30/22

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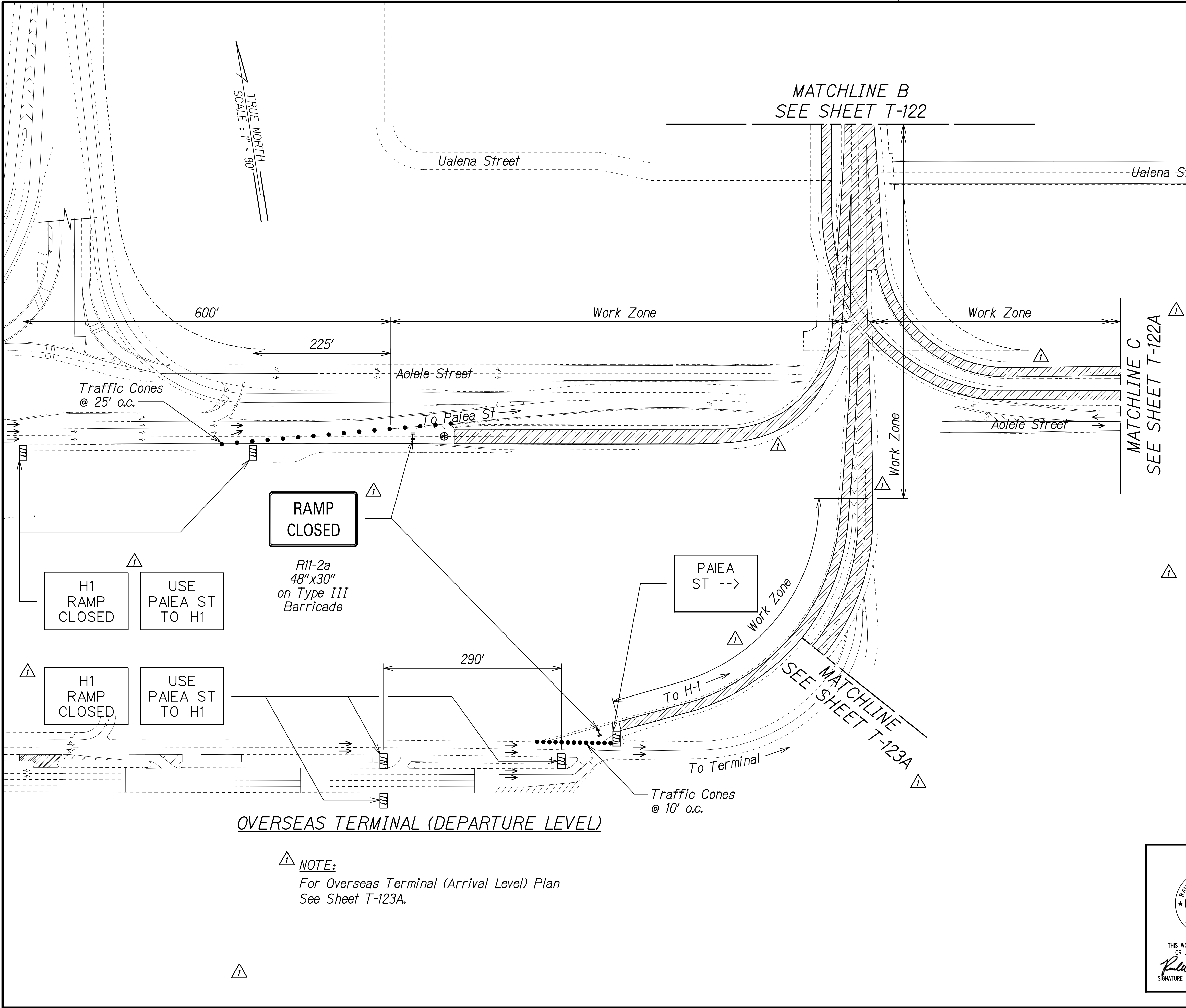
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL
PHASE IV**

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"=80' 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. 158	214



Legend:

- Work Area
- Traffic Cones
- Sign
- Flashing Arrow Signal
- Direction of Traffic
- Police Officer and Police Vehicle with Visible Blue Light
- Portable Message Board
- Type II Barricade with Steady Burn Warning Light
- Type III Barricade with Flashing Warning Light

NOTE:
Contractor shall submit traffic control plans and measures to protect the vehicles and pedestrians beneath the overhead ramps during deck demolition. Payment shall be included as part of Pay Item 645.1000 Traffic Control.

10/28/20	Revised Work Area. Added Traffic Cones and Signs. Moved Overseas Terminal (Arrival Level) Plan to Sheet T-123A. Added Note. Revised Matchline Reference. Revised Legend. Added Matchline.
Date	Revision

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EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC CONTROL
PHASE IV**

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"=80' Date: Aug. 2020

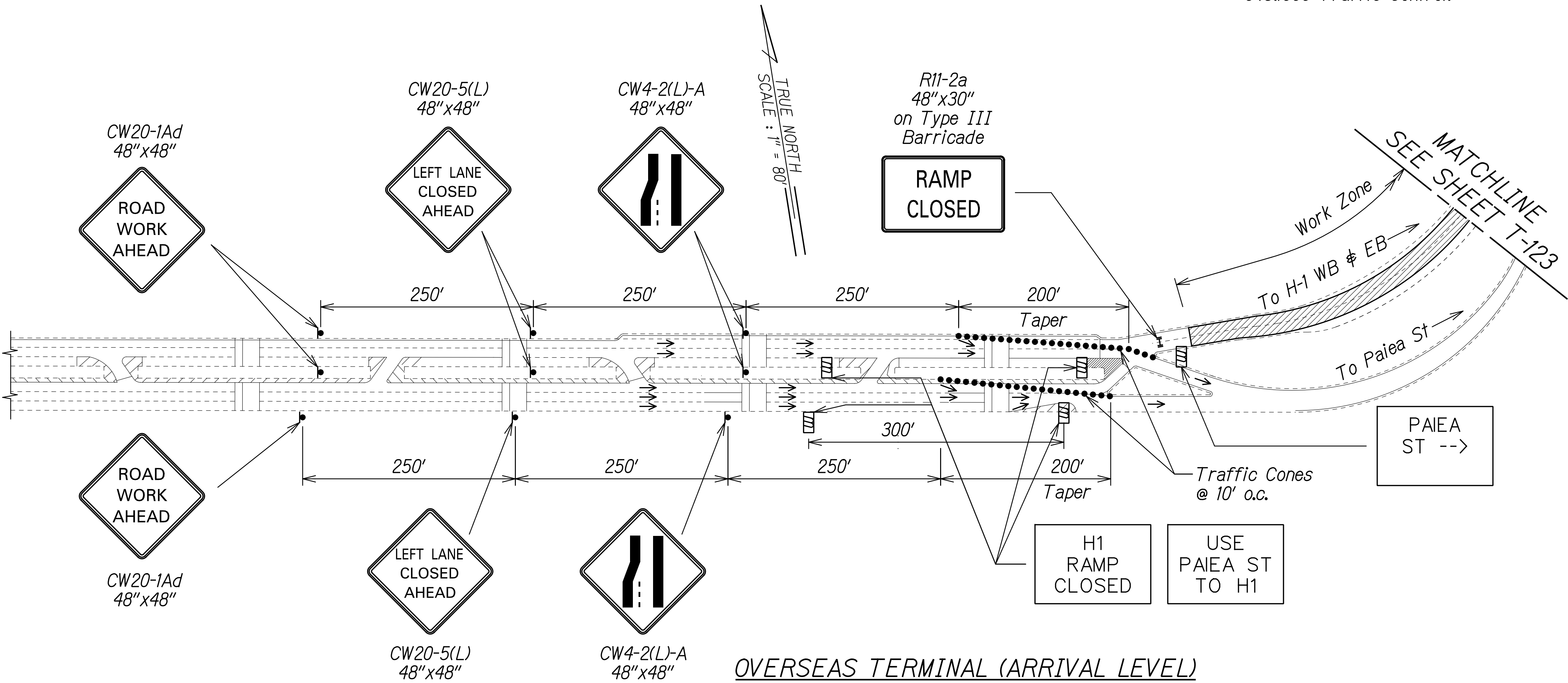
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ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 158S-1	214

Legend:

- Work Area
- Traffic Cones
- Sign
- Direction of Traffic
- Police Officer and Police Vehicle with Visible Blue Light
- Portable Message Board
- Type III Barricade with Flashing Warning Light

NOTE:
Contractor shall submit traffic control plans and measures to protect the vehicles and pedestrians beneath the overhead ramps during deck demolition. Payment shall be included as part of Pay Item 645.1000 Traffic Control.



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ORIGINAL PLAN	
NOTE BOOK	
DATE	

10/28/20	New Sheet. Moved Overseas Terminal (Arrival Level) Plan from Sheet T-123 to this sheet. Added Signs, Dimensions and Note.
Date	Revision

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STATE OF HAWAII
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HIGHWAYS DIVISION

**TRAFFIC CONTROL
PHASE IV**

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"=80' 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. 159	214

INDEX TO DRAWINGS

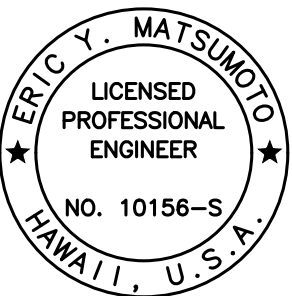
SHT. NO.	DESCRIPTION
S0.1	INDEX TO DRAWINGS
S0.1A	INDEX TO DRAWINGS 
S0.2	STRUCTURAL GENERAL NOTES
S0.3	SYMBOLS AND ABBREVIATIONS
S1.1	DECK KEY PLAN
S1.2	RAMP KEY PLAN
S1.3	RAMP KEY PLAN 
S1.4	NON-DESTRUCTIVE TESTING (NDT) LIMITS FOR VIADUCT 
S1.5	NON-DESTRUCTIVE TESTING (NDT) LIMITS FOR RAMPS 
S2.1	IB REPAIR PLAN SPAN NO. PH1 TO SPAN NO. 1
S2.2	IB REPAIR PLAN SPAN NO. 2 TO SPAN NO. 6
S2.3	IB REPAIR PLAN SPAN NO. 7 TO SPAN NO. 12
S2.4	IB REPAIR PLAN SPAN NO. 13 TO SPAN NO. 17
S2.5	IB REPAIR PLAN SPAN NO. 18 TO SPAN NO. 22
S2.6	IB ϕ RAMP WA REPAIR PLAN SPAN NO. 23 TO SPAN NO. 27
S2.7	IB ϕ RAMP WA REPAIR PLAN SPAN NO. 28 TO SPAN NO. 32
S2.8	IB ϕ RAMP WA REPAIR PLAN SPAN NO. 33 TO SPAN NO. 37
S2.9	IB REPAIR PLAN SPAN NO. 38 TO SPAN NO. 42
S2.10	IB REPAIR PLAN SPAN NO. 43 TO SPAN NO. 47
S2.11	IB REPAIR PLAN SPAN NO. 48 TO SPAN NO. 52
S2.12	IB REPAIR PLAN SPAN NO. 53 TO SPAN NO. 57
S2.13	IB REPAIR PLAN SPAN NO. 58 TO SPAN NO. 62
S2.14	IB REPAIR PLAN SPAN NO. 63 TO SPAN NO. 67
S2.15	IB ϕ RAMP AE REPAIR PLAN SPAN NO. 68 TO SPAN NO. 72
S2.16	IB ϕ RAMP AE REPAIR PLAN SPAN NO. 73 TO SPAN NO. 77
S2.17	IB ϕ RAMP AE REPAIR PLAN SPAN NO. 78 TO SPAN NO. 82
S2.18	IB ϕ RAMP AE REPAIR PLAN SPAN NO. 83 TO SPAN NO. 87
S2.19	IB REPAIR PLAN SPAN NO. 88 TO SPAN NO. 92
S2.20	IB REPAIR PLAN SPAN NO. 93 TO SPAN NO. 97
S2.21	IB REPAIR PLAN SPAN NO. 98 TO SPAN NO. 102
S2.22	IB REPAIR PLAN SPAN NO. 103 TO SPAN NO. K3
S2.23	IB REPAIR PLAN SPAN NO. K4 TO SPAN NO. K8
S2.24	IB REPAIR PLAN SPAN NO. K9 TO SPAN NO. K13
S2.25	IB REPAIR PLAN SPAN NO. K14 TO SPAN NO. K18

SHT. NO.	DESCRIPTION
S2.26	IB REPAIR PLAN SPAN NO. K19 TO SPAN NO. K22
S2.27	RAMP WA REPAIR PLAN SPAN NO. WA-1 TO SPAN NO. WA-4
S2.28	RAMP AE REPAIR PLAN SPAN NO. 3C TO SPAN NO. 6C
S2.29	RAMP AE REPAIR PLAN SPAN NO. 7C TO SPAN NO. 11C
S2.30	RAMP AE REPAIR PLAN SPAN NO. 12C TO SPAN NO. 15C
S2.30A	RAMPS WD, WA ϕ WI REPAIR PLAN SPAN NO. 5 TO SPAN NO. 10 
S2.30B	RAMP WI REPAIR PLAN SPAN NO. 2 TO SPAN NO. 6 
S2.30C	RAMP WI REPAIR PLAN SPAN NO. 7 TO SPAN NO. 11 
S2.30D	RAMPS WD ϕ WA REPAIR PLAN SPAN NO. 11 TO SPAN NO. 4A 
S2.30E	RAMPS WA ϕ EA REPAIR PLAN SPAN NO. 5A TO SPAN NO. 9A 
S2.30F	RAMPS WA ϕ FO REPAIR PLAN SPAN NO. 10A TO SPAN NO. 13A 
S2.30G	RAMPS WA ϕ FO REPAIR PLAN SPAN NO. 14A 
S2.30H	RAMPS AE ϕ AW REPAIR PLAN SPAN NO. 20 TO SPAN NO. 24 
S2.30I	RAMPS AW, IF ϕ PF REPAIR PLAN SPAN NO. 25 TO SPAN NO. 28 
S2.30J	RAMPS AW, DF, IF ϕ PF REPAIR PLAN SPAN NO. 29 TO SPAN NO. 32 
S2.30K	RAMP IF REPAIR PLAN SPAN NO. 2 TO SPAN NO. 7 
S2.31	IB DECK REPAIR SCHEDULES
S2.32	IB DECK REPAIR SCHEDULES
S2.33	IB DECK REPAIR SCHEDULES
S2.34	RAMPS WA ϕ AE REPAIR SCHEDULES
S2.35	RAMPS WA, WD, WI ϕ IF REPAIR SCHEDULES 
S3.1	PENETRATING SEALER AND SURFACE TREATMENT LAYOUT
S3.2	PENETRATING SEALER AND SURFACE TREATMENT LAYOUT
S3.3	PENETRATING SEALER AND SURFACE TREATMENT LAYOUT
S3.4	PENETRATING SEALER AND SURFACE TREATMENT LAYOUT 
S3.5	PENETRATING SEALER AND SURFACE TREATMENT LAYOUT 

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\1.AVR-50001 INDEX ADD1.DWG PLOT TIME: 10-29-20, 4:22 PM

10/28/20	 Add. 1 - Revised Index
DATE	REVISION



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

INDEX TO DRAWINGS

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

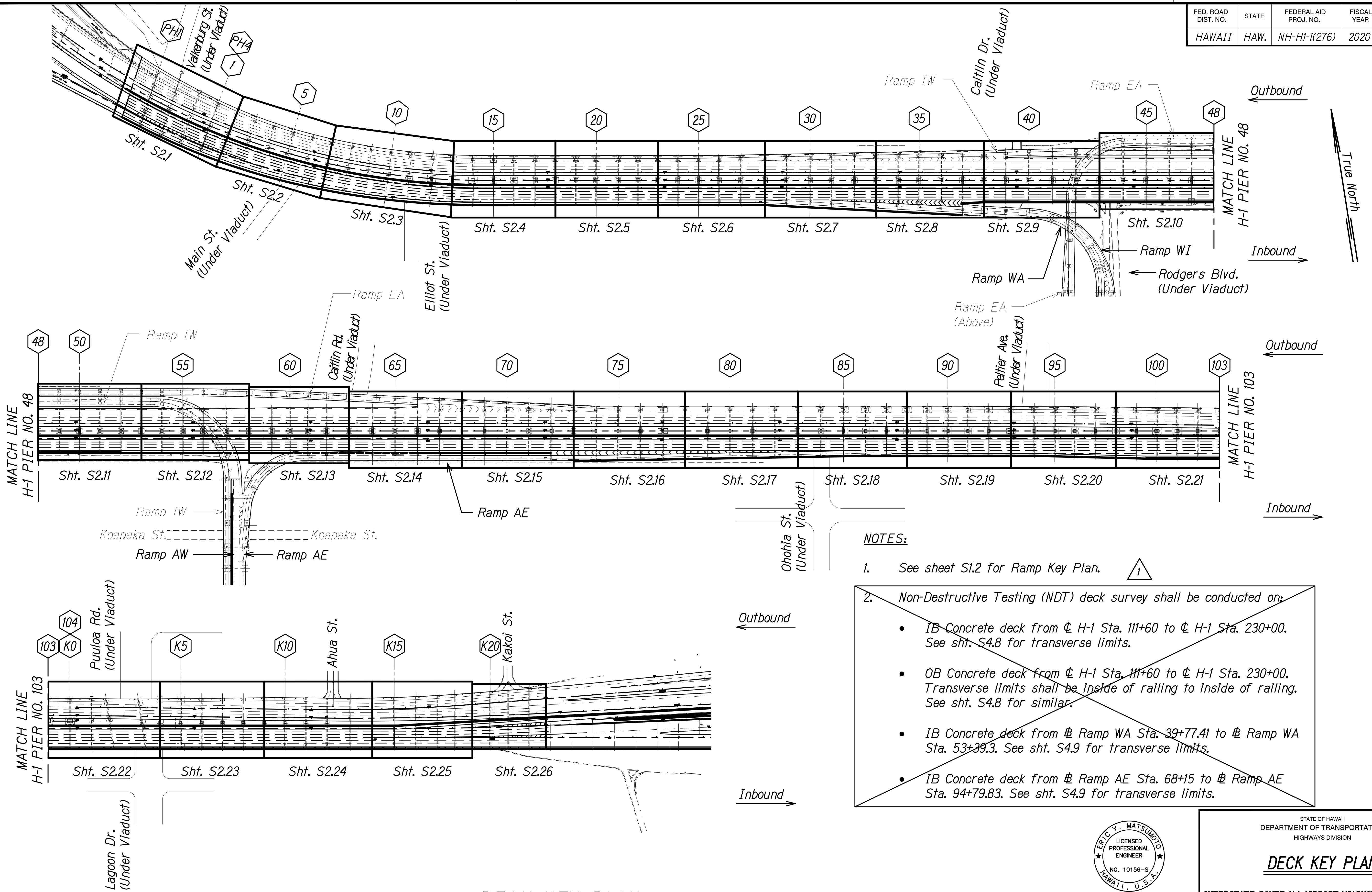
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SHEET No. S0.1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 162	214

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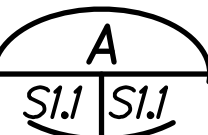
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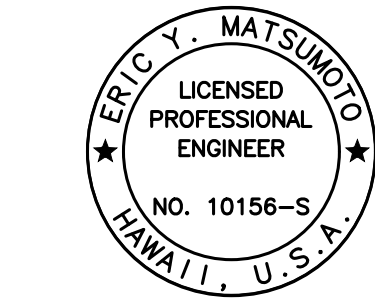
NOTES:

- See sheet S1.2 for Ramp Key Plan.
- Non-Destructive Testing (NDT) deck survey shall be conducted on:
 - IB Concrete deck from CL H-1 Sta. 111+60 to CL H-1 Sta. 230+00. See sht. S4.8 for transverse limits.
 - OB Concrete deck from CL H-1 Sta. 111+60 to CL H-1 Sta. 230+00. Transverse limits shall be inside of railing to inside of railing. See sht. S4.8 for similar.
 - IB Concrete deck from CL Ramp WA Sta. 39+77.41 to CL Ramp WA Sta. 53+39.3. See sht. S4.9 for transverse limits.
 - IB Concrete deck from CL Ramp AE Sta. 68+15 to CL Ramp AE Sta. 94+79.83. See sht. S4.9 for transverse limits.

DECK KEY PLAN
Scale: 1" = 200'-0"



10/28/20	1 Add. 1 - Revised Notes
DATE	REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

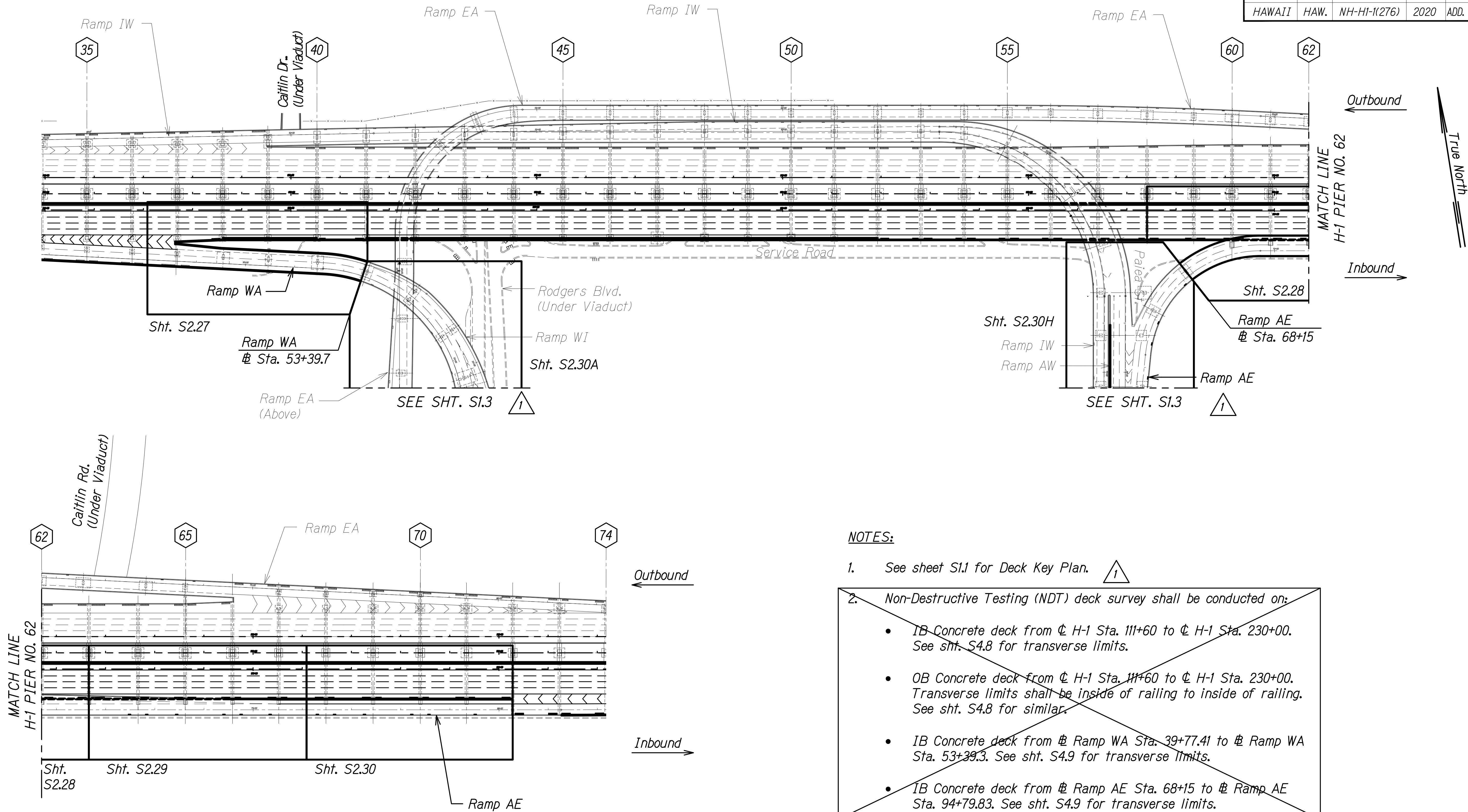
DECK KEY PLAN

**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: As Noted Date: Aug. 2020

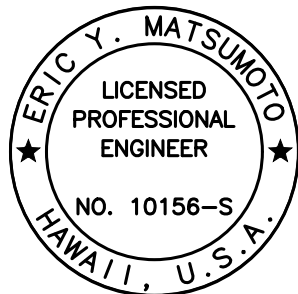
SHEET No. S11 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 163	214



NOTES:

- See sheet S1.1 for Deck Key Plan.
- Non-Destructive Testing (NDT) deck survey shall be conducted on:
 - IB Concrete deck from ϕ H-1 Sta. 111+60 to ϕ H-1 Sta. 230+00. See sht. S4.8 for transverse limits.
 - OB Concrete deck from ϕ H-1 Sta. 111+60 to ϕ H-1 Sta. 230+00. Transverse limits shall be inside of railing to inside of railing. See sht. S4.8 for similar.
 - IB Concrete deck from ϕ Ramp WA Sta. 39+77.41 to ϕ Ramp WA Sta. 53+39.3. See sht. S4.9 for transverse limits.
 - IB Concrete deck from ϕ Ramp AE Sta. 68+15 to ϕ Ramp AE Sta. 94+79.83. See sht. S4.9 for transverse limits.



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Eric Y. Matsumoto
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

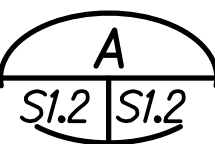
RAMP KEY PLAN

**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: As Noted Date: Aug. 2020

SHEET No. S1.2 OF 2 SHEETS

RAMP KEY PLAN
Scale: 1" = 100'-0"

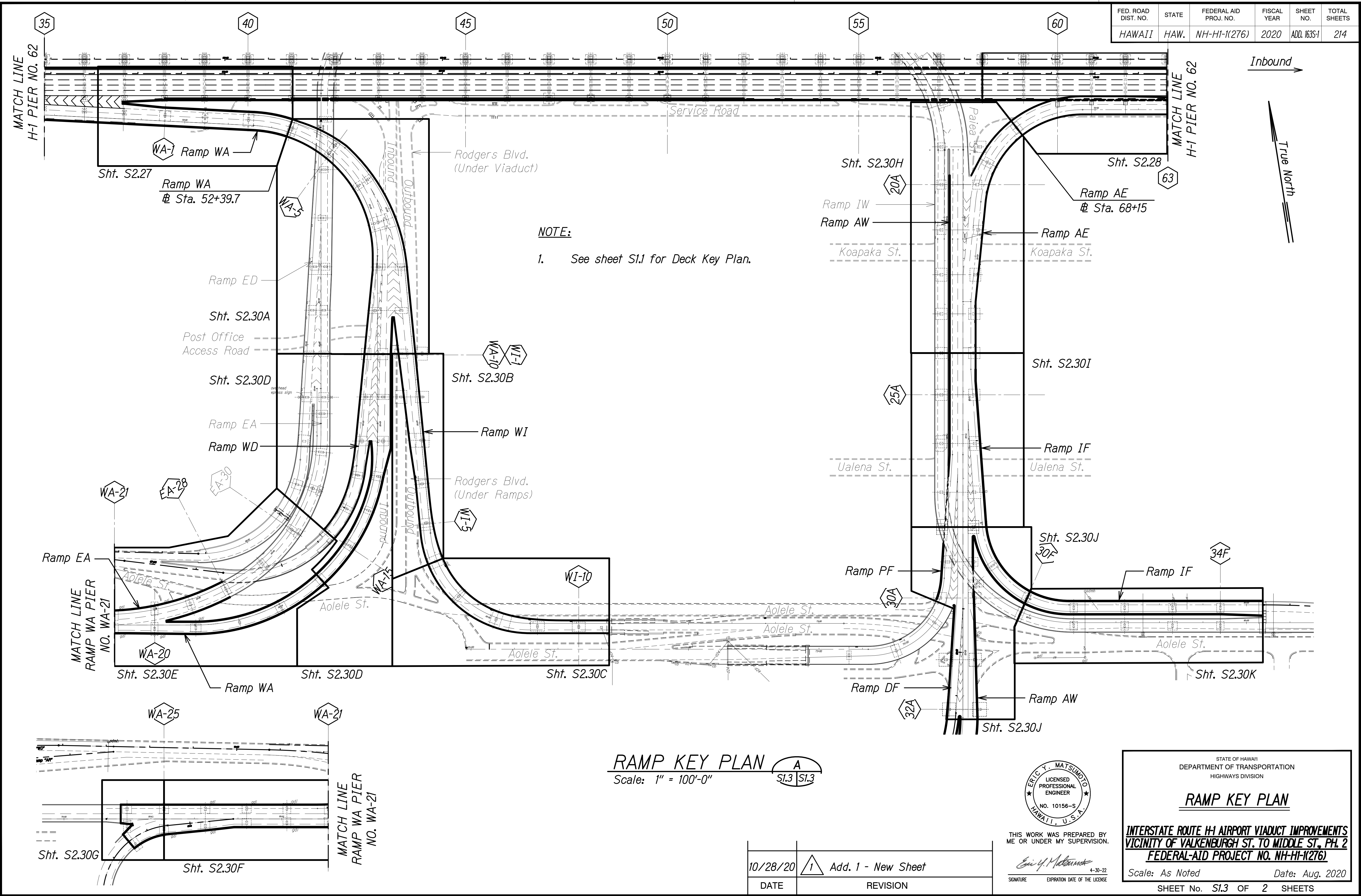


10/28/20		Add. 1 - Revised Notes & Added Match Lines
DATE		REVISION

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0101 KEYPLANS ADD1.DWG PLOT TIME: 10-29-20, 4:26 PM

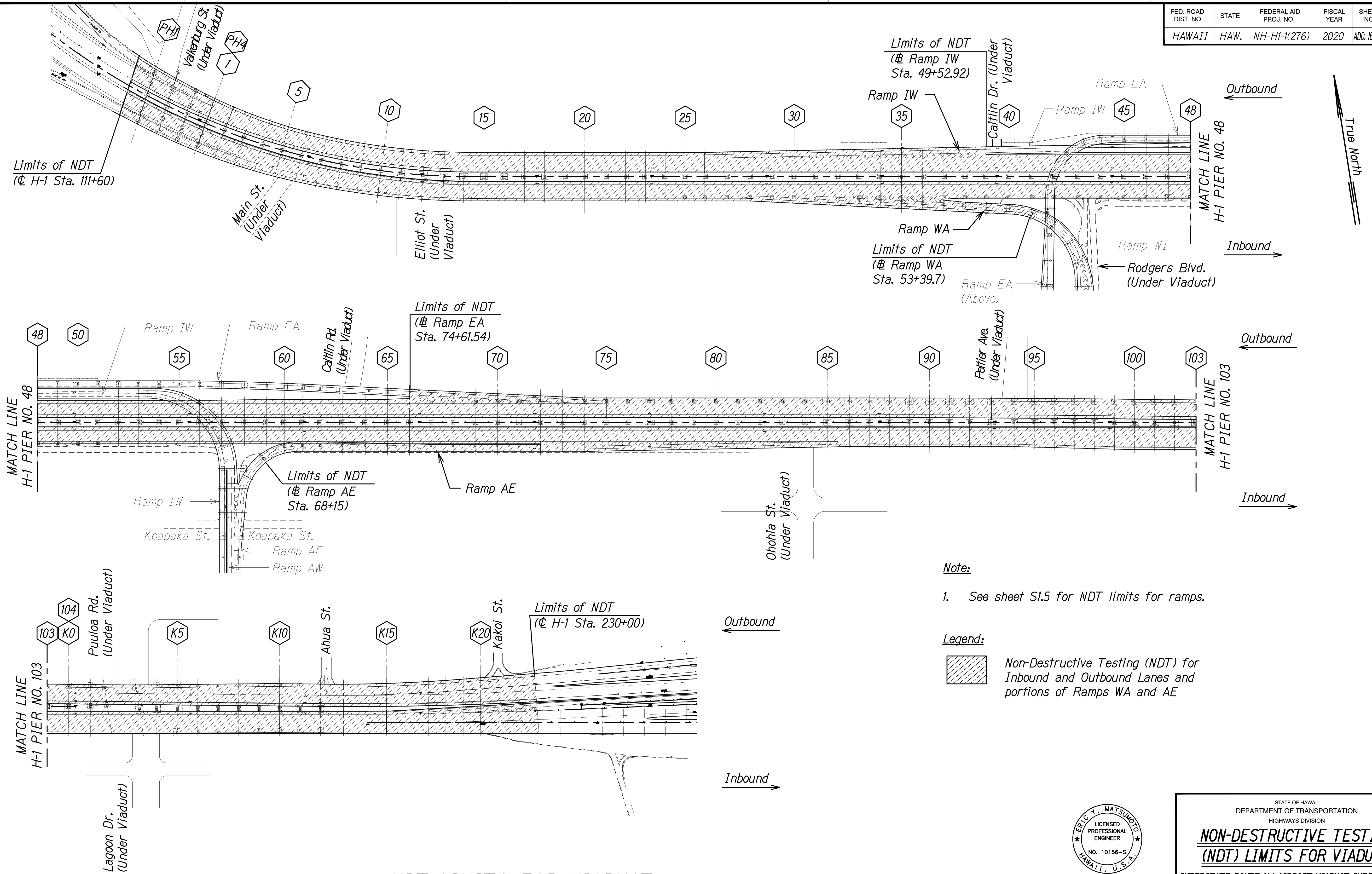
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(K276)	2020	ADD. 163S-1	214



FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 163S-2	214

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-50104 NDT PLANS ADD1.DWG PLOT TIME: 10-29-20, 4:29 PM

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	



- Note:**
- See sheet S1.5 for NDT limits for ramps.

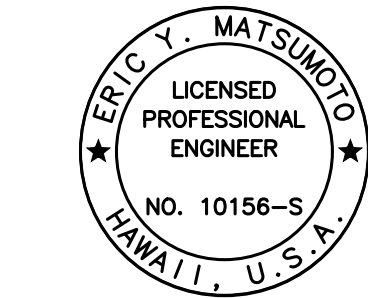
Legend:

Non-Destructive Testing (NDT) for Inbound and Outbound Lanes and portions of Ramps WA and AE

NDT LIMITS FOR VIADUCT
Scale: 1" = 200'-0"

A
S1.4 S1.4

10/28/20	1	Add. 1 - New Sheet
DATE		REVISION



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Eric Y. Matsumoto
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NON-DESTRUCTIVE TESTING (NDT) LIMITS FOR VIADUCT

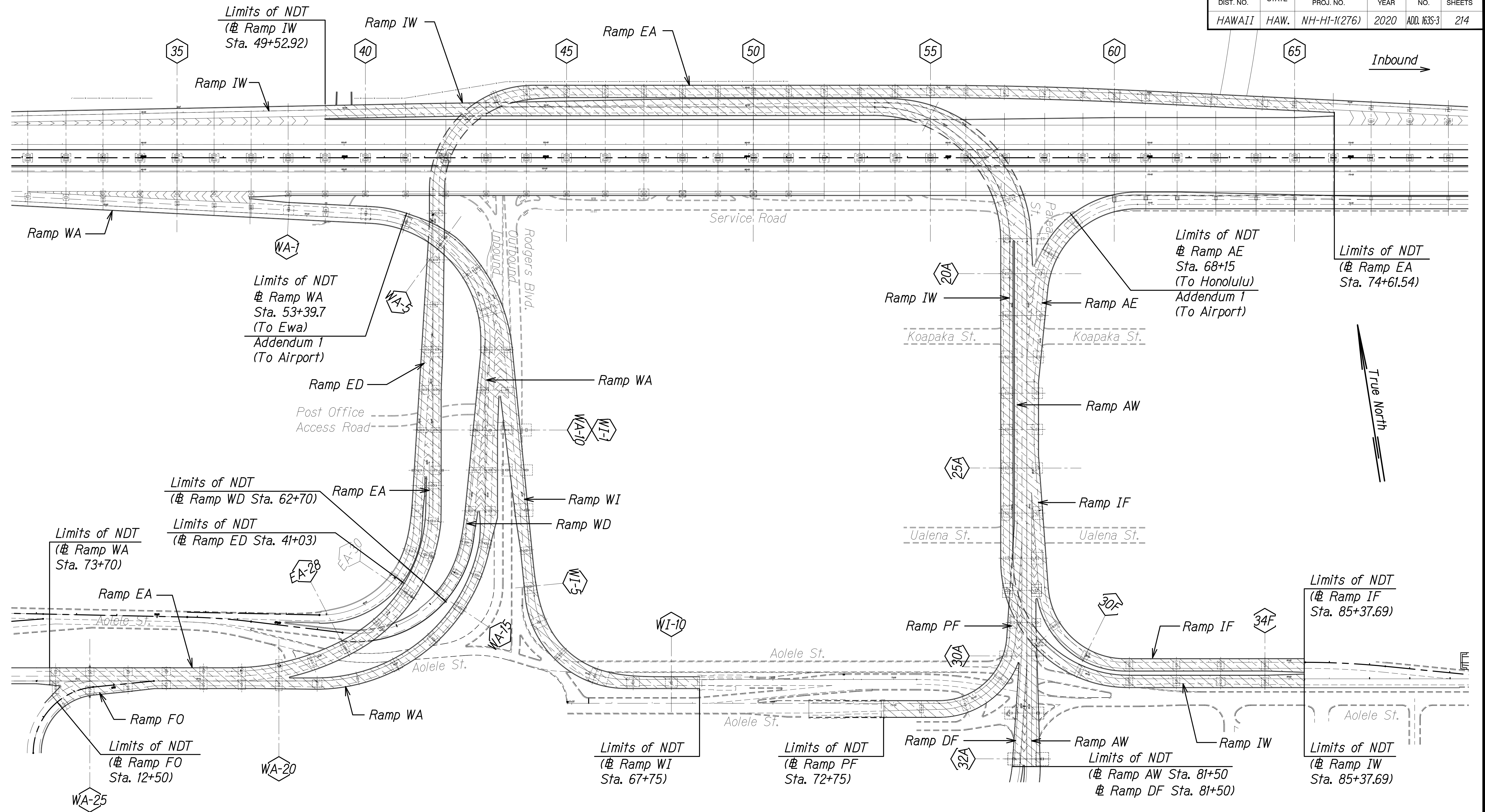
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2

FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: As Noted Date: Aug. 2020

SHEET No. S1.4 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 163S-3	214



- Note:**
- See sheet S1.4 for NDT limits for viaduct.

Legend:

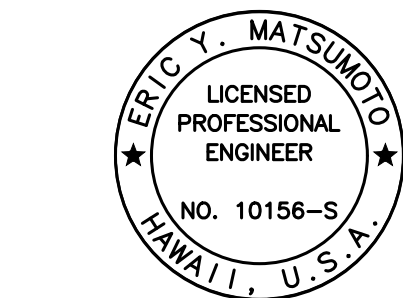
Non-Destructive Testing (NDT) for Ramps

NDT LIMITS FOR RAMPS

Scale: 1" = 120'-0"

A
S1.5 S1.5

10/28/20	1	Add. 1 - New Sheet
DATE	REVISION	



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Eric Y. Matsumoto

SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

NON-DESTRUCTIVE TESTING (NDT) LIMITS FOR RAMPS

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2

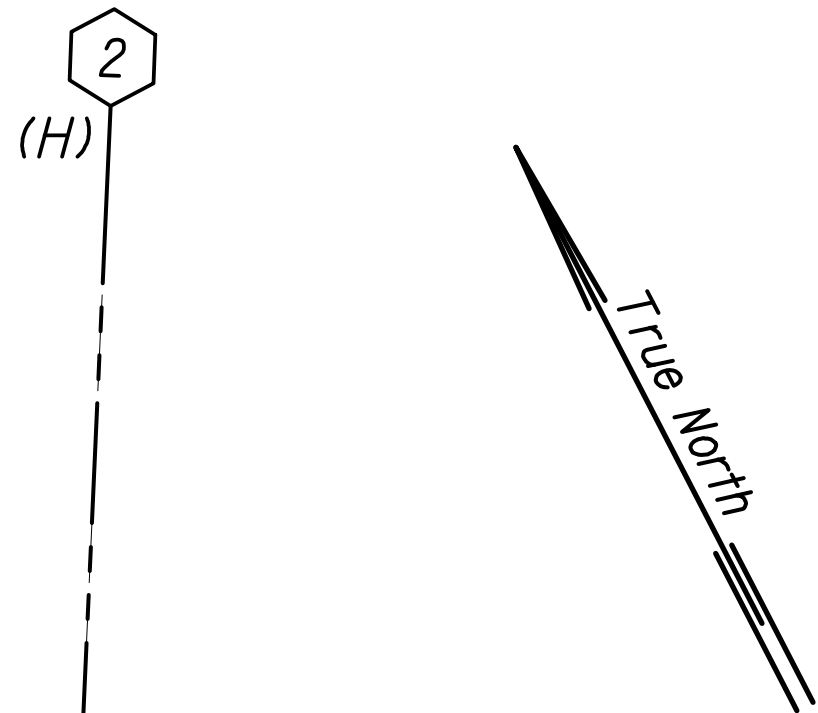
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: As Noted Date: Aug. 2020

SHEET No. S1.5 OF 2 SHEETS

ADD. 163S-3

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 164	214



Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- Existing Polyester Concrete Overlay
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. PH1 TO SPAN NO. 1
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

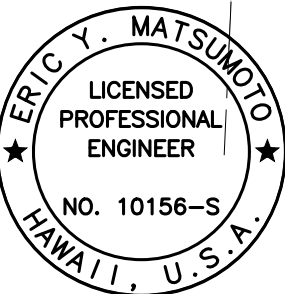
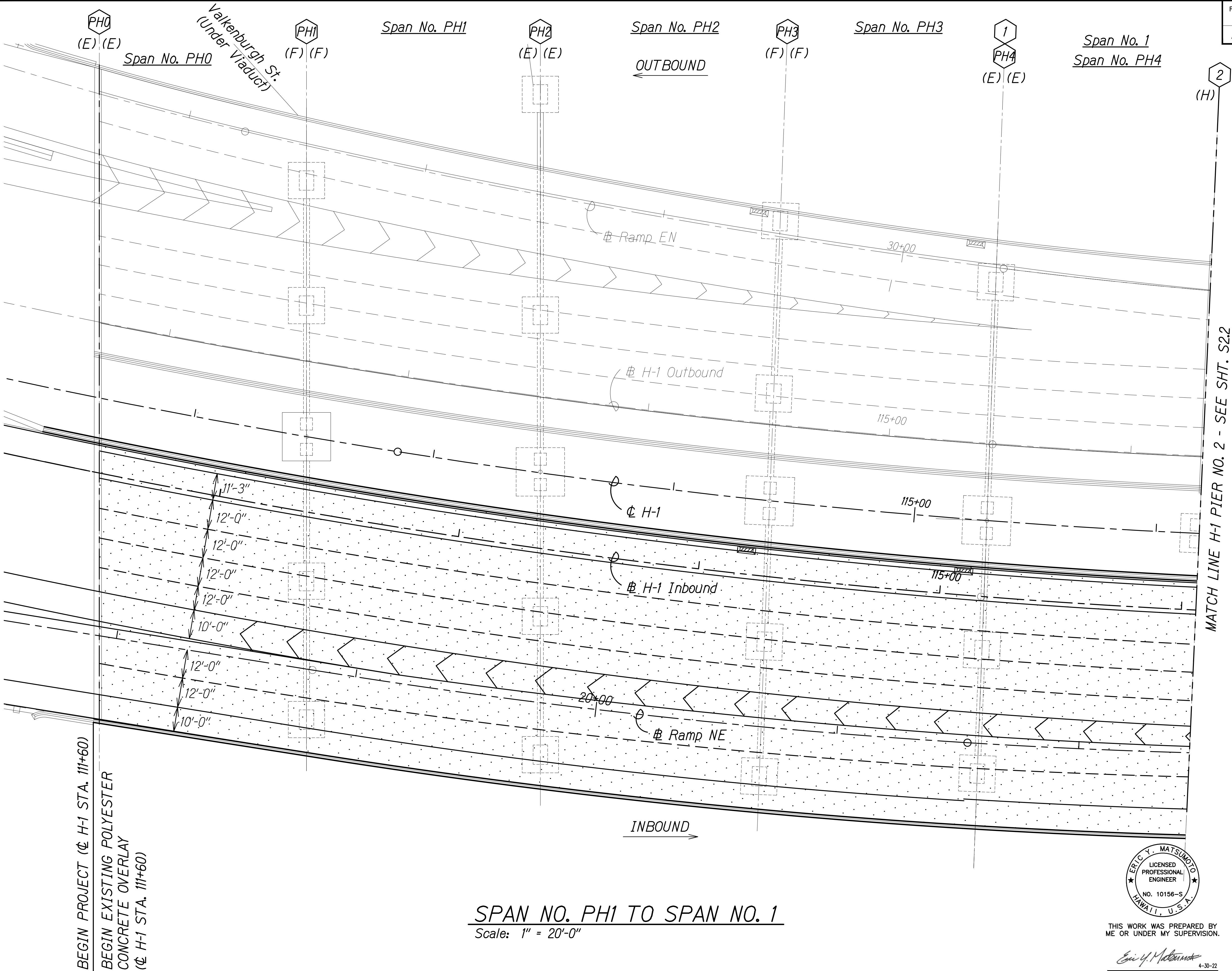
Scale: As Noted Date: Aug. 2020

SHEET No. S21 OF 34 SHEETS

ADD. 164

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0201 CUP1 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20, 4:30 PM)

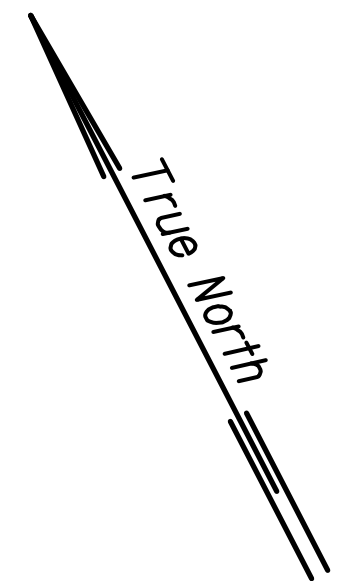
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	



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Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 165	214



Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- Existing Polyester Concrete Overlay
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

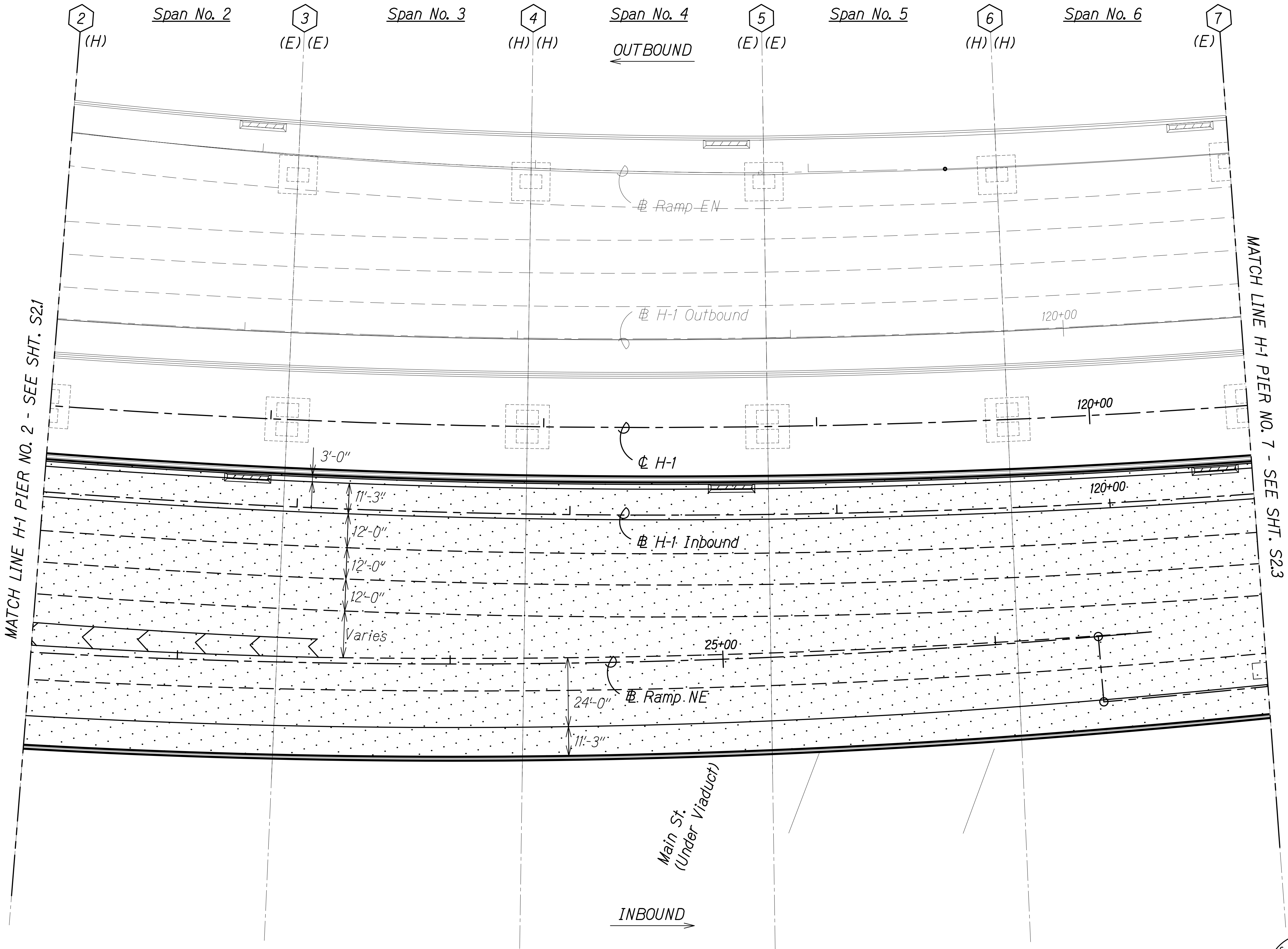
IB REPAIR PLAN
SPAN NO. 2 TO SPAN NO. 6

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

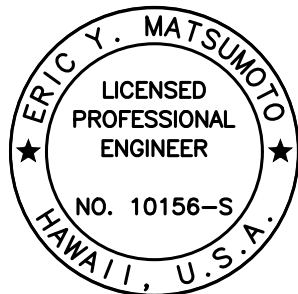
Scale: As Noted Date: Aug. 2020

SHEET No. S2.2 OF 34 SHEETS

ADD. 165



SPAN NO. 2 TO SPAN NO. 6
Scale: 1" = 20'-0"



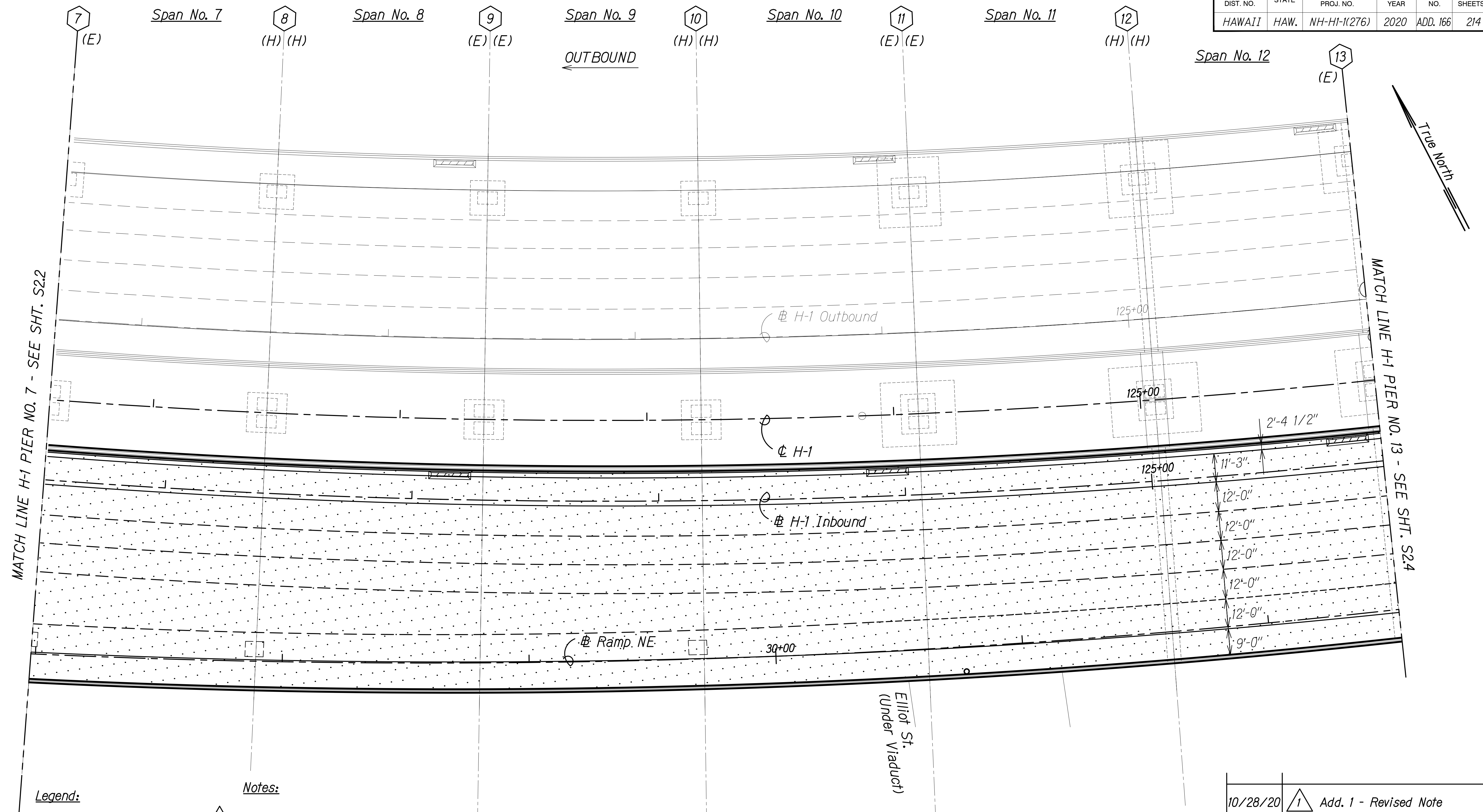
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0201 CUP1 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:30 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 166	214



Legend:

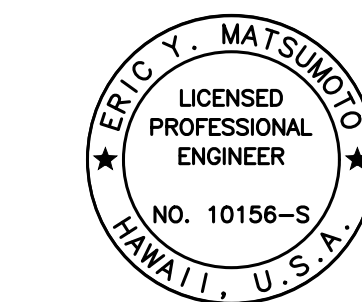
- # Pier No.
- Existing Polyester Concrete Overlay
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

INBOUND

SPAN NO. 7 TO SPAN NO. 12
Scale: 1" = 20'-0"



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SIGNATURE: *Eric Y. Matsumoto* 4-30-22
EXPIRATION DATE OF THE LICENSE

10/28/20	1 Add. 1 - Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION IB REPAIR PLAN SPAN NO. 7 TO SPAN NO. 12 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: As Noted	Date: Aug. 2020
SHEET No. S2.3 OF 34 SHEETS	

ADD.166

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 167	214

Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- Existing Polyester Concrete Overlay
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. 13 TO SPAN NO. 17
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: As Noted Date: Aug. 2020

SHEET No. S2.4 OF 34 SHEETS

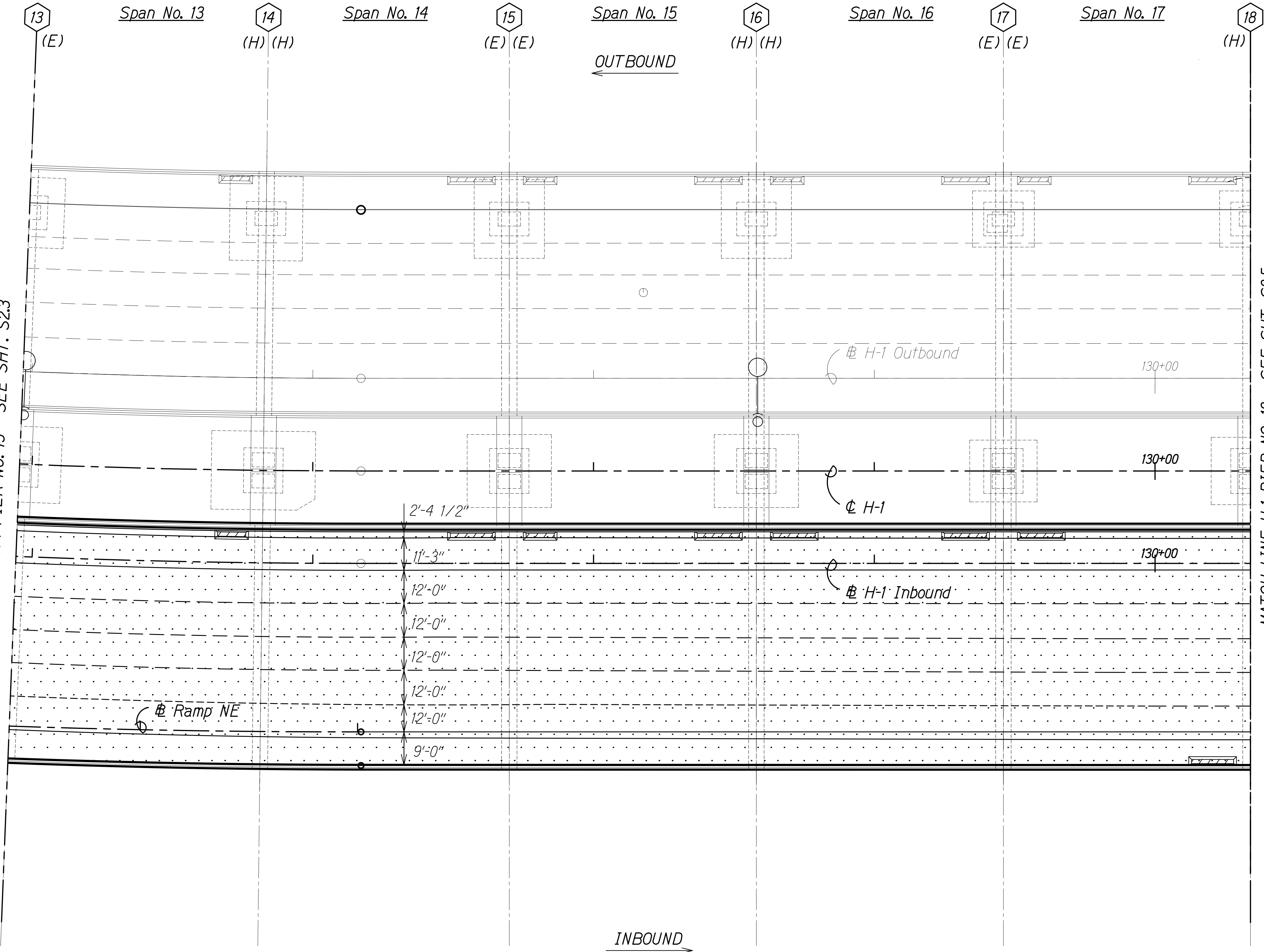
ADD. 167

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\AVR-50204 CIP2 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:31 PM

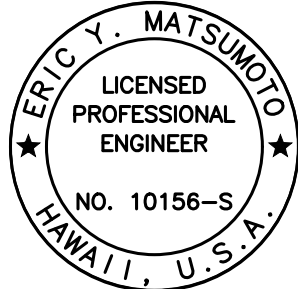
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

MATCH LINE H-1 PIER NO. 13 - SEE SHT. S2.3

MATCH LINE H-1 PIER NO. 18 - SEE SHT. S2.5



SPAN NO. 13 TO SPAN NO. 17
Scale: 1" = 20'-0"



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Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 168	214

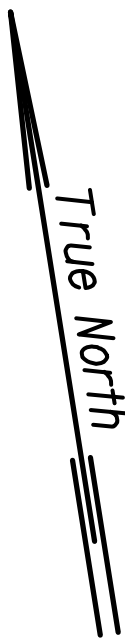
Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

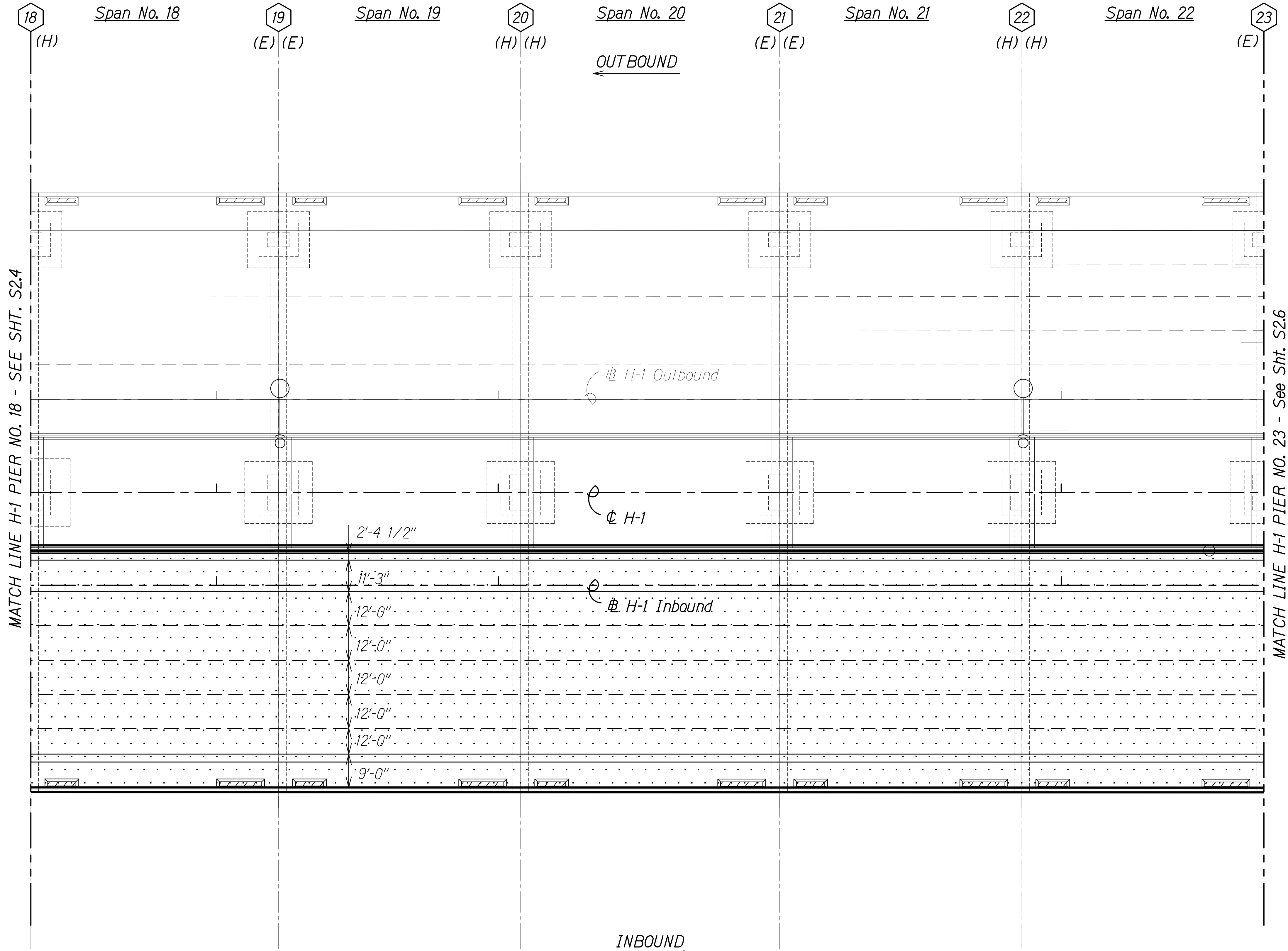
- # Pier No.
Existing Polyester Concrete Overlay
(E) Expansion Joint
(F) Fixed Joint
(H) Hinged Joint

10/28/20	1 Add. 1 - Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION IB REPAIR PLAN SPAN NO. 18 TO SPAN NO. 22 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: As Noted Date: Aug. 2020	
SHEET No. S25 OF 34 SHEETS	

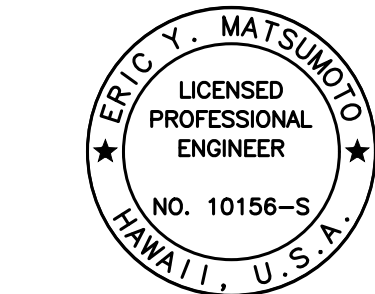


DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-50204 CUP2 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:32 PM

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



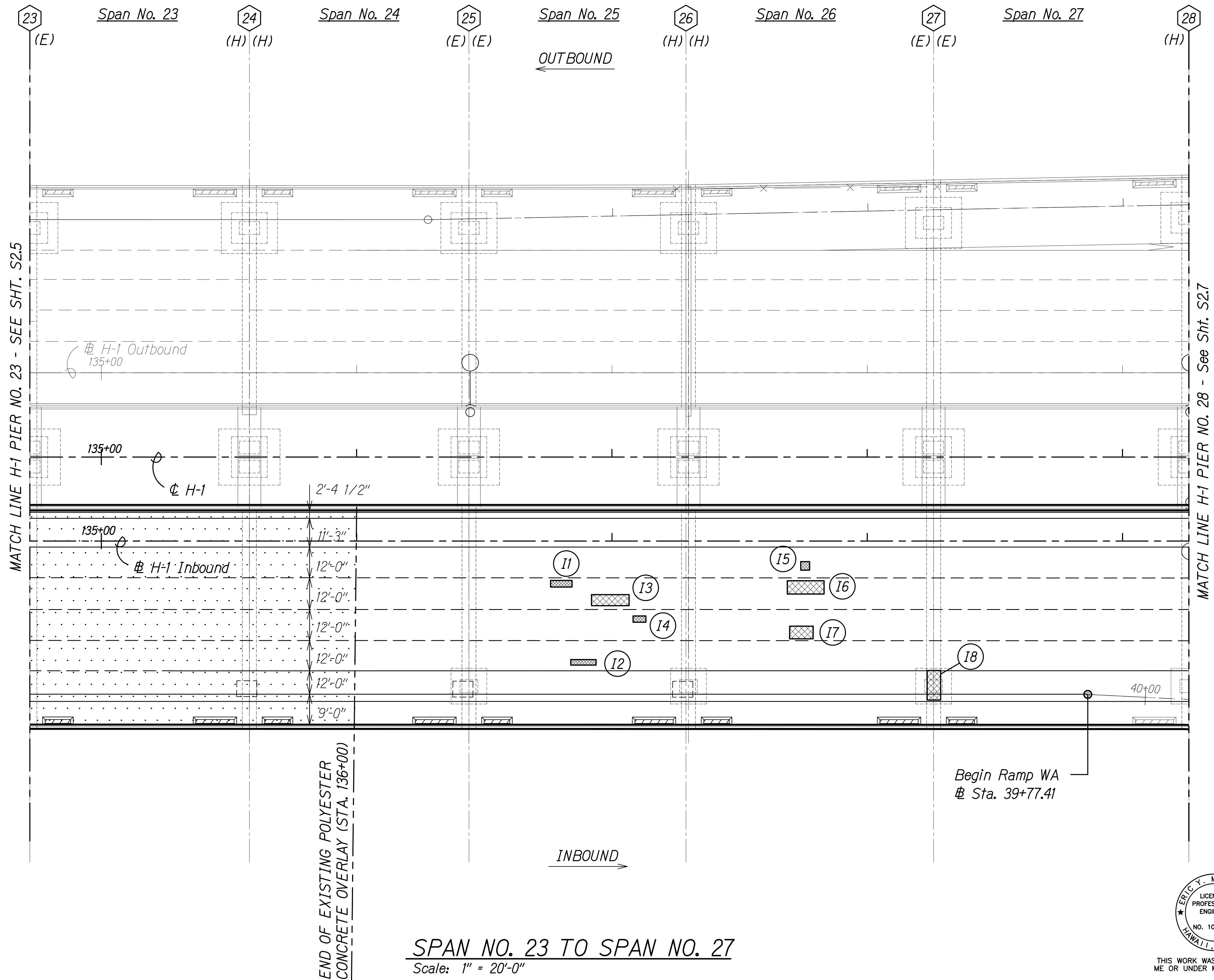
SPAN NO. 18 TO SPAN NO. 22
Scale: 1" = 20'-0"



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Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 169	214



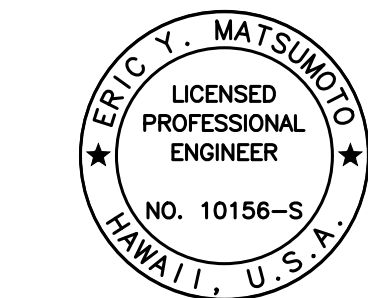
Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair
(See Schedule on
Sheets S2.31 to S2.33)
- Existing Polyester
Concrete Overlay
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20	1 Add. 1 - Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION IB & RAMP WA REPAIR PLAN SPAN NO. 23 TO SPAN NO. 27 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: As Noted	Date: Aug. 2020
SHEET No. S2.6 OF 34 SHEETS	



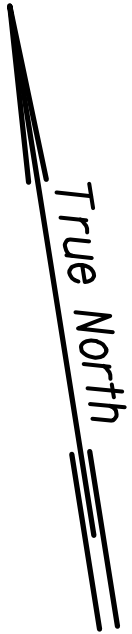
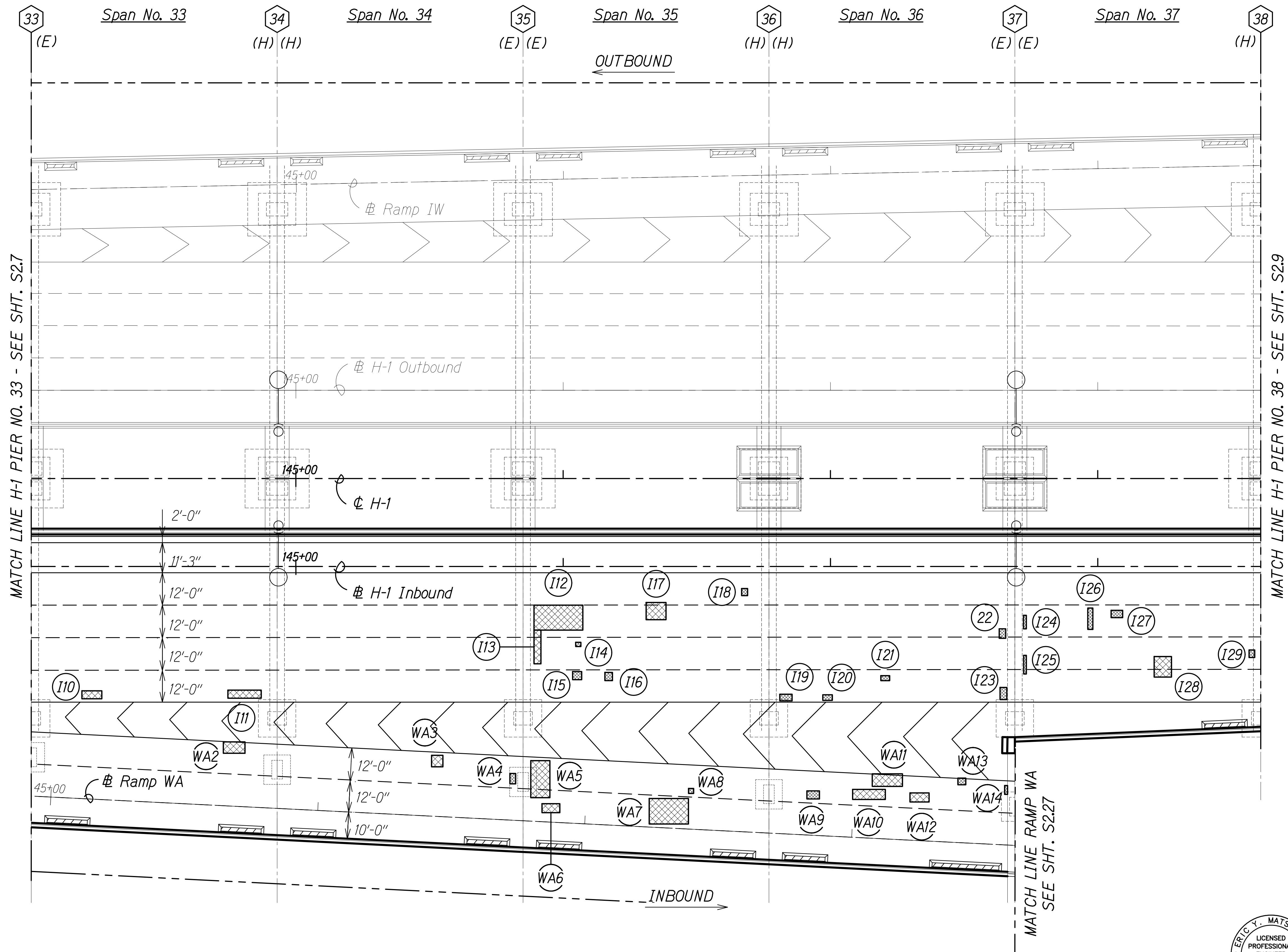
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: *Eric Y. Matsumoto*
4-30-22
EXPIRATION DATE OF THE LICENSE

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0204 CLIP2 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20, 4:32 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 171	214



Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair (See Schedule on Sheets S2.31 to S2.33)
- WA# Ramp WA Repair (See Schedule on Sheet S2.34)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

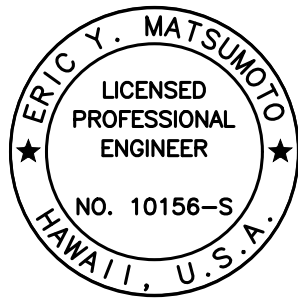
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB & RAMP WA REPAIR PLAN
SPAN NO. 33 TO SPAN NO. 37
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: As Noted Date: Aug. 2020

SHEET No. S2.8 OF 34 SHEETS

ADD. 171



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

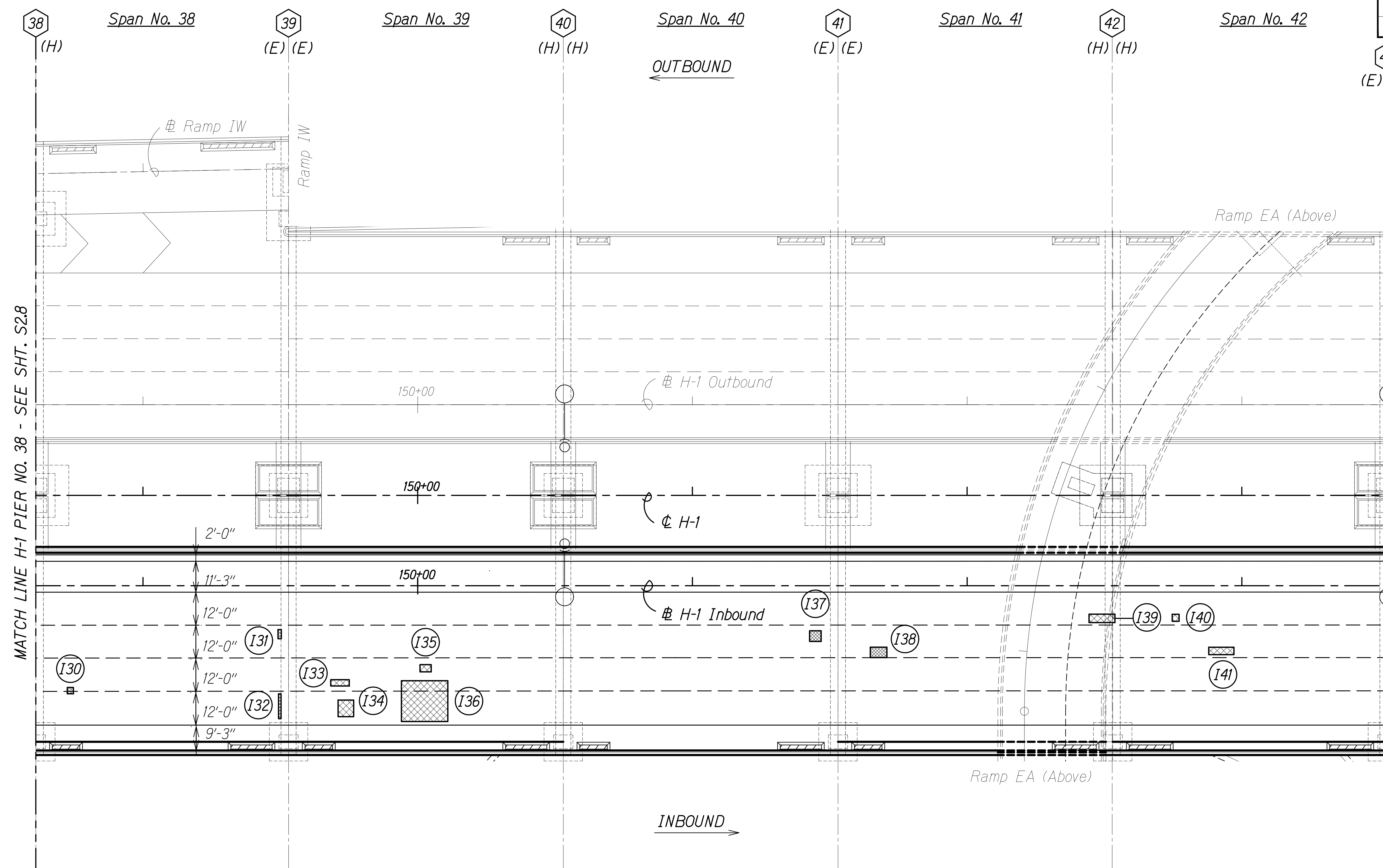
Signature: Eric Y. Matsumoto
EXPIRATION DATE OF THE LICENSE: 4-30-22

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0208 CUP3 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:33 PM

SPAN NO. 33 TO SPAN NO. 37
Scale: 1" = 20'-0"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 172	214



Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

-  *Pier No.*
-  *Inbound Repair*
(See Schedule on
Sheets S2.31 to S2.33)
-  *Repair Area*
- (E) *Expansion Joint*
- (F) *Fixed Joint*
- (H) *Hinged Joint*

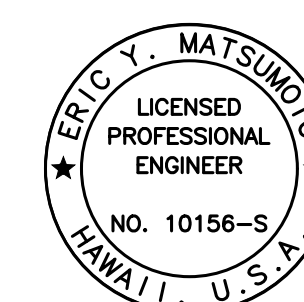
MATCH LINE H-1 PIER NO. 38 - SEE SHT. S2.8

MATCH LINE H-1 PIER NO. 43 - SEE SHT. S2.10

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	" _____
	TRACED BY _____	" _____
NOTE BOOK	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
No. _____	CHECKED BY _____	" _____

DRAWING NAME: 7\00 ONGOING\19-009 8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\AVR-S0208 CIP3 H1 PLAN ADD1 DWG PLOT TIME: 10-29-20 4:34 PM

SPAN NO. 38 TO SPAN NO. 42
Scale: 1" = 20'-0"



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Eui Y. Matsumoto 4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

10/28/20	 Add. 1 - Revised Note
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IB REPAIR PLAN

SPAN NO. 38 TO SPAN NO. 42

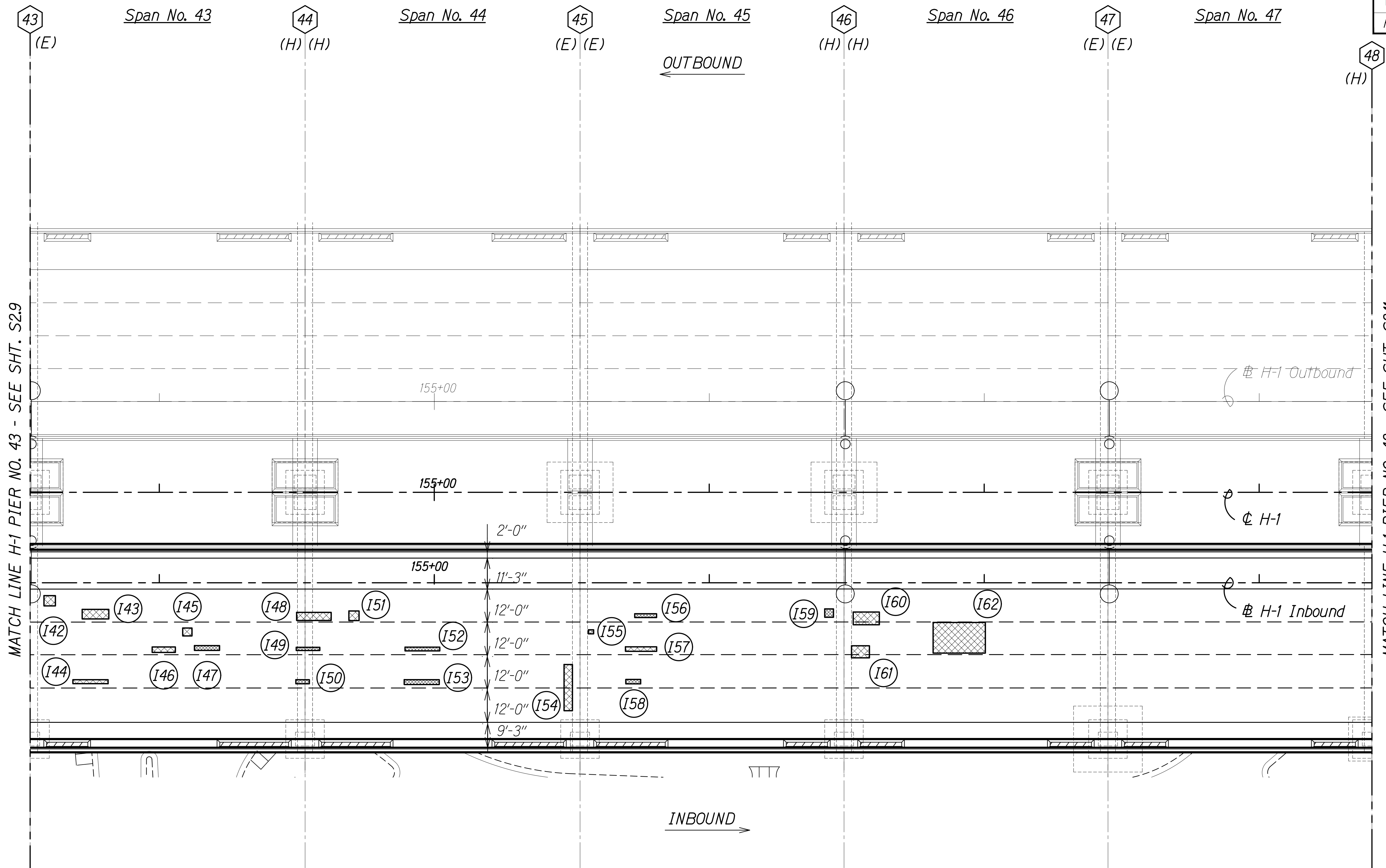
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: As Noted Date: Aug. 2020

SHEET No. *S2.9* OF *34* SHEETS

ADD. 172

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 173	214



- Notes:**
- See Sheet S1.4 for NDT limits.
 - See Sheet S0.2, Note 4.H.

- Legend:**
- # Pier No.
 - I# Inbound Repair (See Schedule on Sheets S2.31 to S2.33)
 - Repair Area
 - (E) Expansion Joint
 - (F) Fixed Joint
 - (H) Hinged Joint

10/28/20	1 Add. 1 - Revised Note
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. 43 TO SPAN NO. 47
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: As Noted Date: Aug. 2020

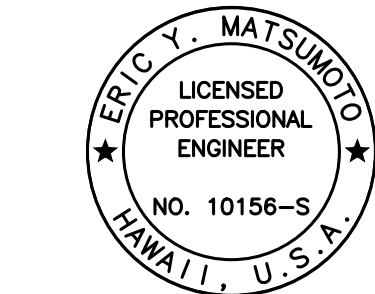
SHEET No. S2.10 OF 34 SHEETS

ADD. 173

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0208 CUP3 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:34 PM

SPAN NO. 43 TO SPAN NO. 47
Scale: 1" = 20'-0"



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 174	214

True North

Notes:

- See Sheet S1.4 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair
(See Schedule on
Sheets S2.31 to S2.33)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

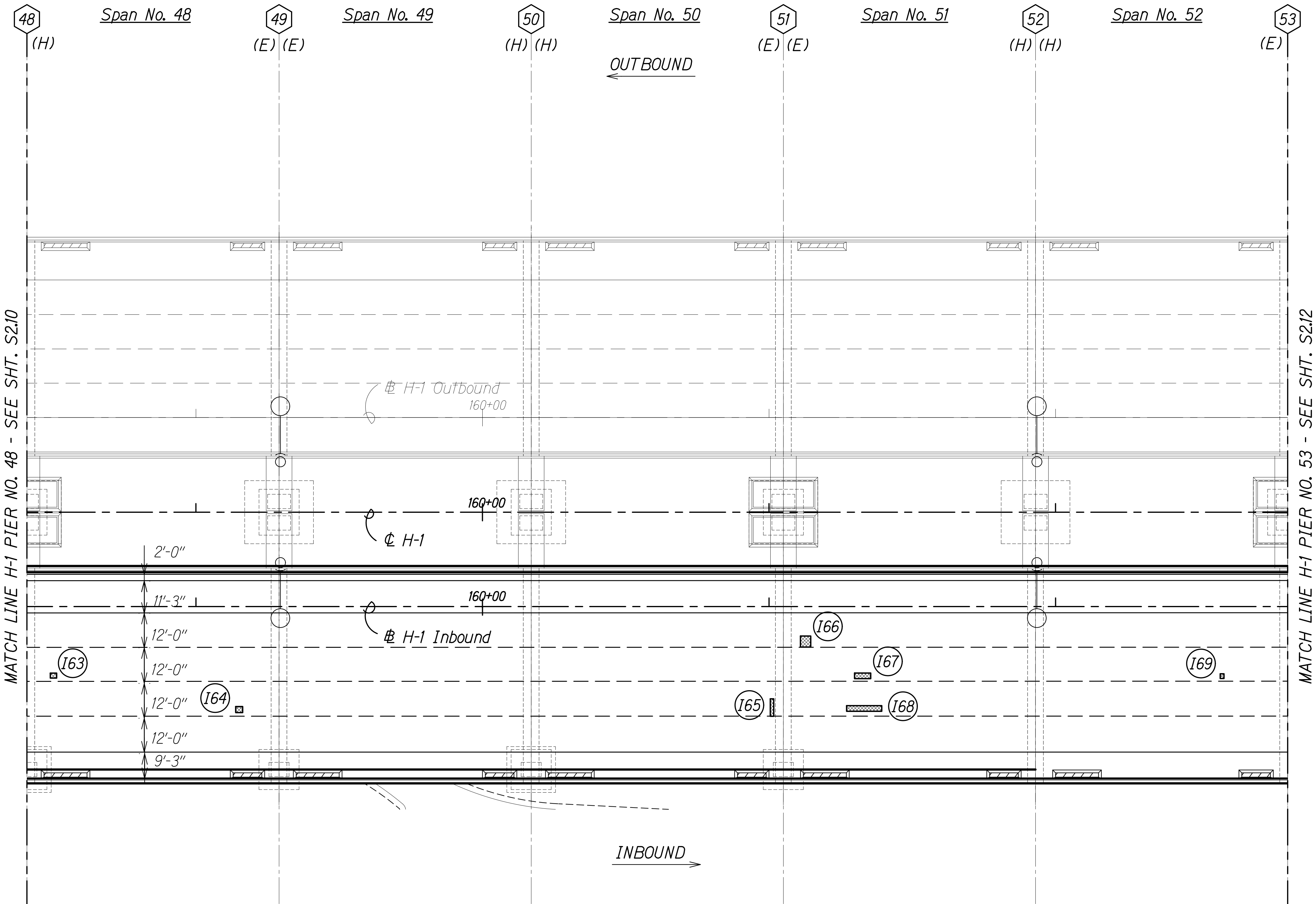
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. 48 TO SPAN NO. 52
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

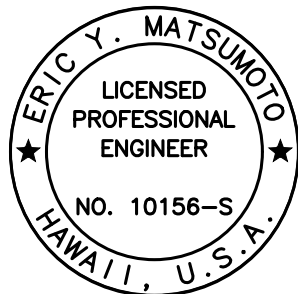
Scale: As Noted Date: Aug. 2020

SHEET No. S2.11 OF 34 SHEETS

ADD. 174



SPAN NO. 48 TO SPAN NO. 52
Scale: 1" = 20'-0"



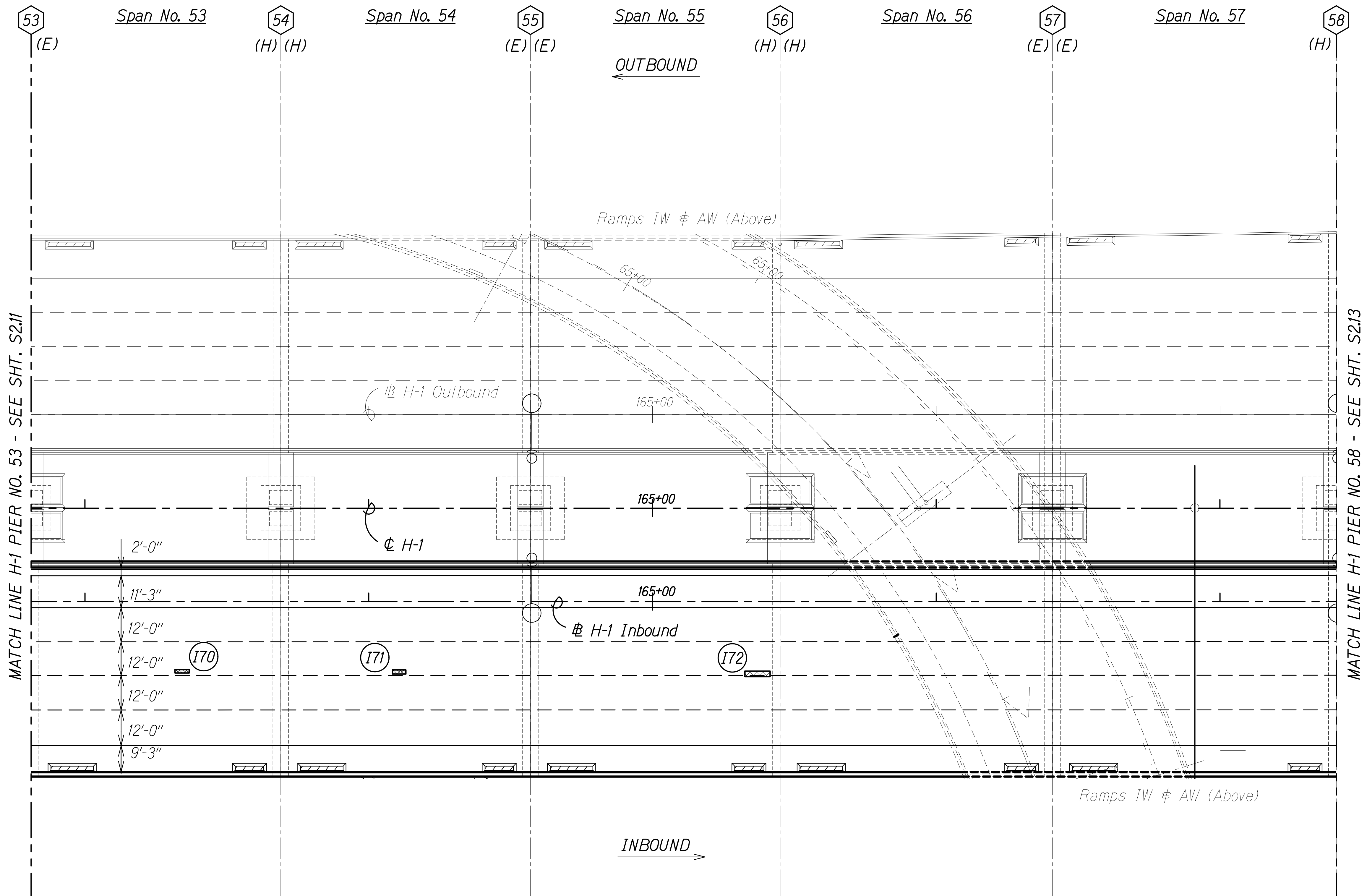
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.1.AVR-S0208 CUP3 H1 PLAN ADD.1.DWG PLOT TIME: 10-29-20, 4:35 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 175	214



Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair (See Schedule on Sheets S2.31 to S2.33)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

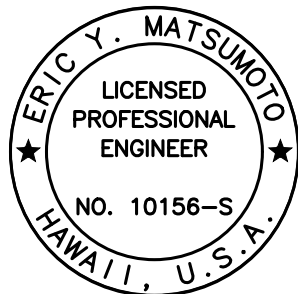
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. 53 TO SPAN NO. 57
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: As Noted Date: Aug. 2020

SHEET No. S2.12 OF 34 SHEETS

ADD. 175



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ME OR UNDER MY SUPERVISION.

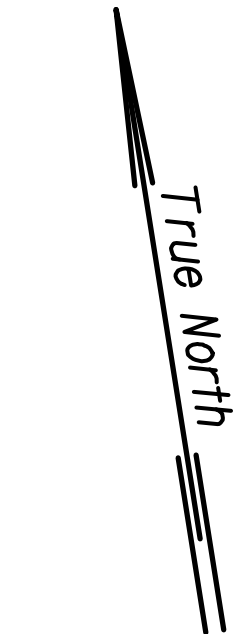
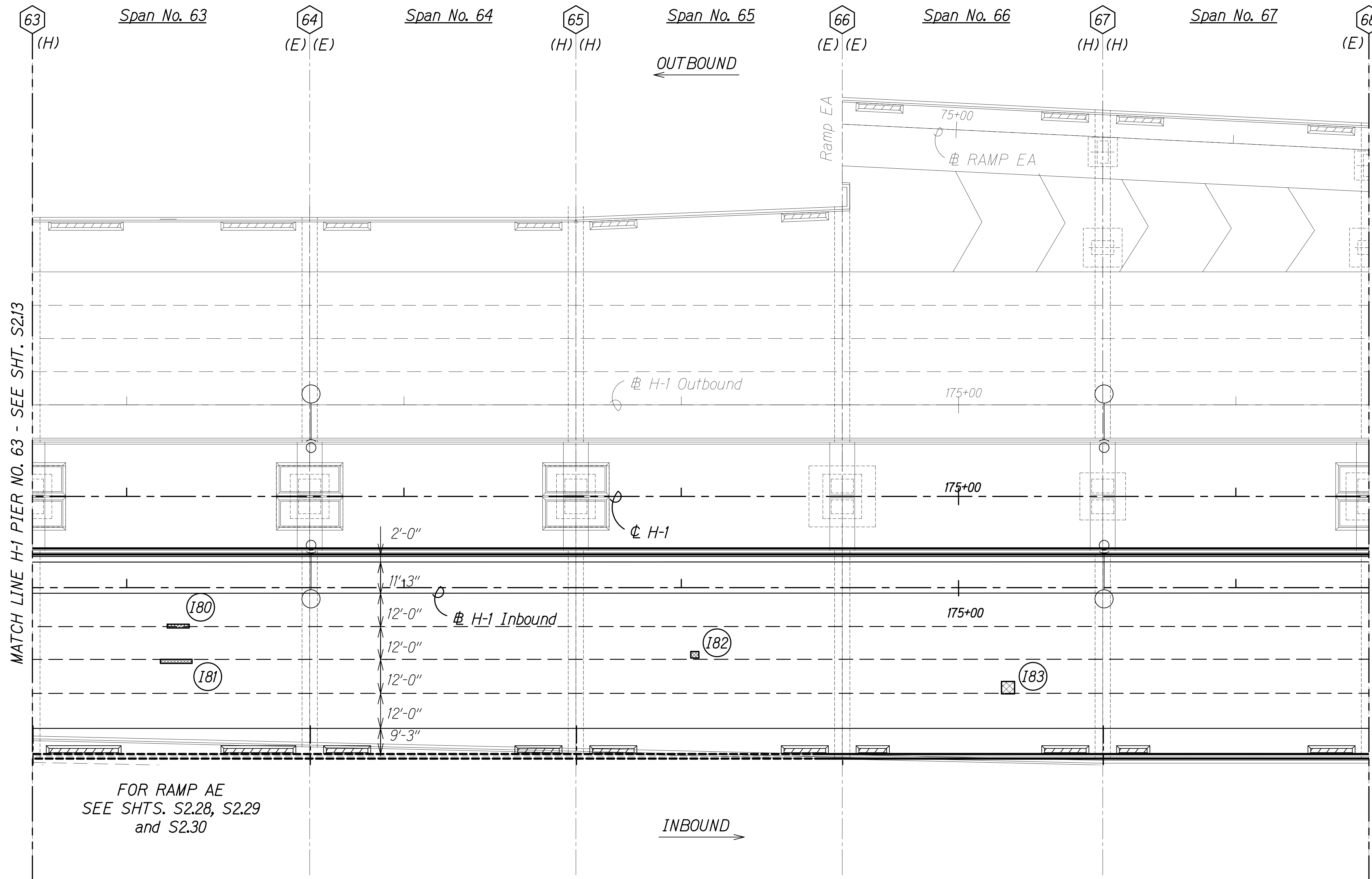
Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

SPAN NO. 53 TO SPAN NO. 57
Scale: 1" = 20'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.1.AVR-S0212 CIP4 H1 PLAN ADD.1.DWG PLOT TIME: 10-29-20 4:35 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 177	214



Notes:

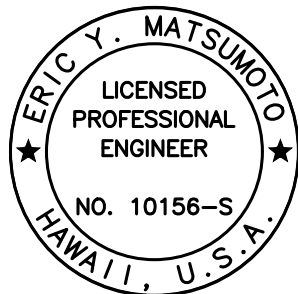
- See Sheet S1.4 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair (See Schedule on Sheets S2.31 to S2.33)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

FOR RAMP AE
SEE SHTS. S2.28, S2.29
and S2.30

SPAN NO. 63 TO SPAN NO. 67
Scale: 1" = 20'-0"



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ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

10/28/20 Add. 1 - Revised Note

DATE REVISION

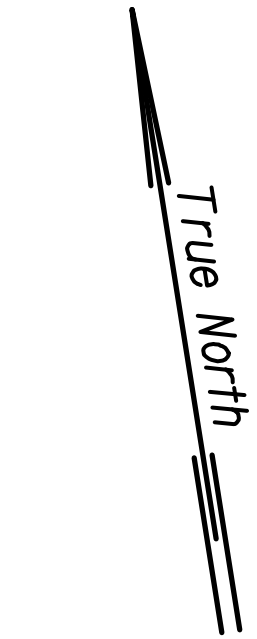
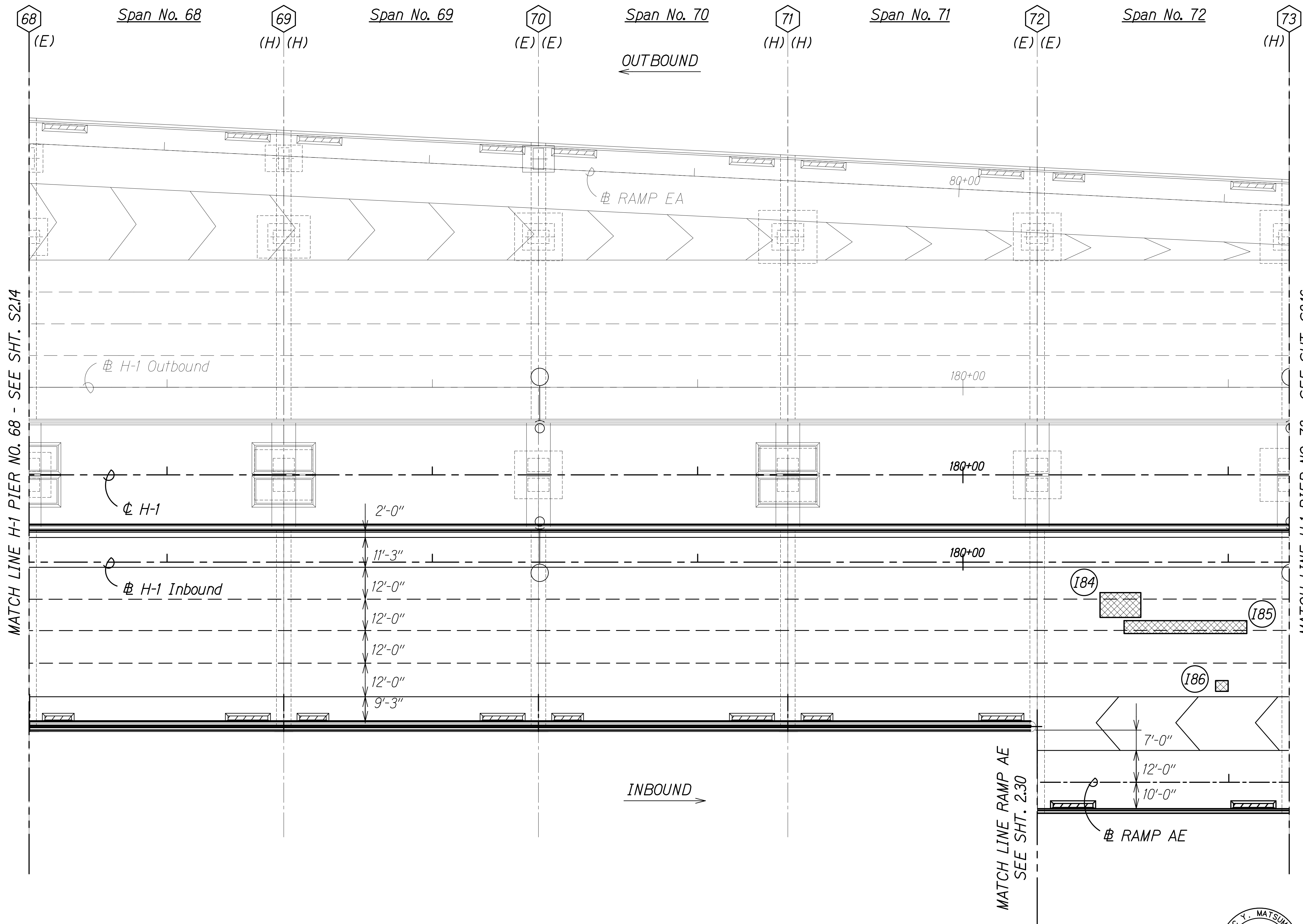
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. 63 TO SPAN NO. 67
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: As Noted Date: Aug. 2020

SHEET No. S2.14 OF 34 SHEETS

ADD. 177

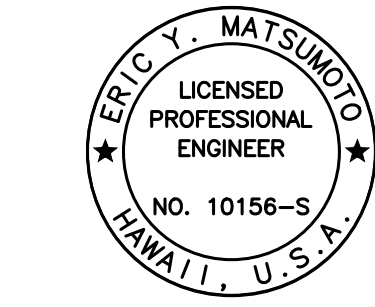
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 178	214



- Notes:
- See Sheet S1.4 for NDT limits.
 - See Sheet S0.2, Note 4.H.

- Legend:
- # Pier No.
 - I# Inbound Repair (See Schedule on Sheets S2.31 to S2.33)
 - AE# Ramp AE Repair (See Schedule on Sheet S2.34)
 - Repair Area
 - (E) Expansion Joint
 - (F) Fixed Joint
 - (H) Hinged Joint

10/28/20	1 Add. 1 - Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION IB # RAMP AE REPAIR PLAN SPAN NO. 68 TO SPAN NO. 72 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: As Noted	Date: Aug. 2020
SHEET No. S2.15 OF 34 SHEETS	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Eric Y. Matsumoto*
4-30-22
EXPIRATION DATE OF THE LICENSE

SPAN NO. 68 TO SPAN NO. 72
Scale: 1" = 20'-0"

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0212 CIP4 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:37 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 179	214



Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
I# Inbound Repair
(See Schedule on Sheets S2.31 to S2.33)
AE# Ramp AE Repair
(See Schedule on Sheet S2.34)
Repair Area
(E) Expansion Joint
(F) Fixed Joint
(H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION

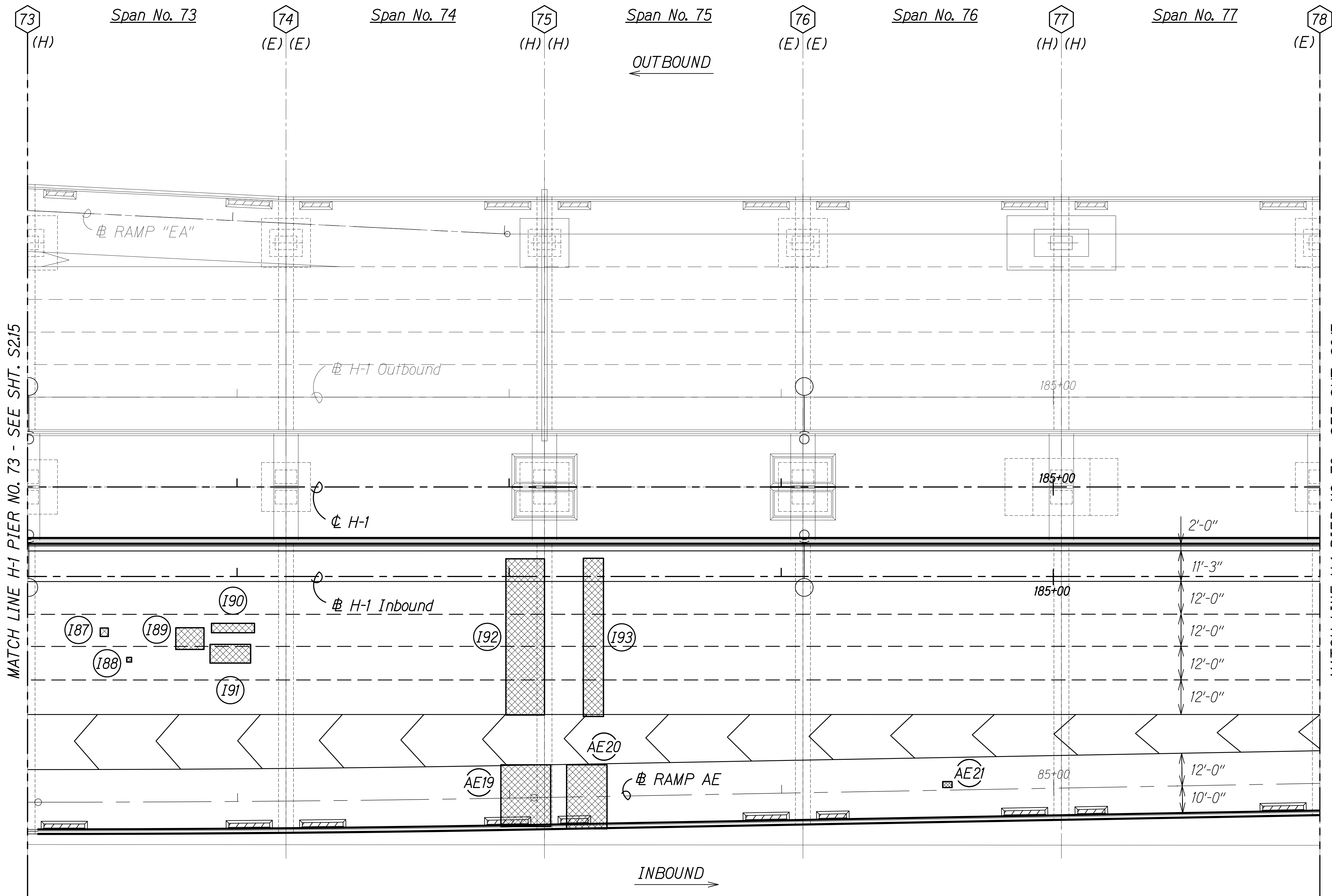
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB & RAMP AE REPAIR PLAN
SPAN NO. 73 TO SPAN NO. 77

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

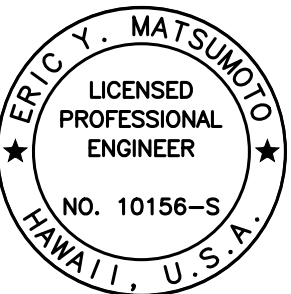
Scale: As Noted Date: Aug. 2020

SHEET No. S2.16 OF 34 SHEETS

ADD. 179



SPAN NO. 73 TO SPAN NO. 77
Scale: 1" = 20'-0"



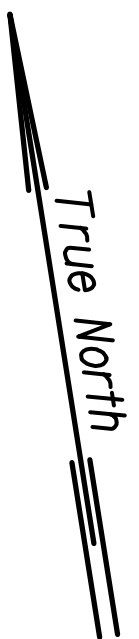
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0216 CLIP5 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:38 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 180	214



Notes:

- See Sheet S1.4 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair
(See Schedule on Sheets S2.31 to S2.33)
- AE# Ramp AE Repair
(See Schedule on Sheet S2.34)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

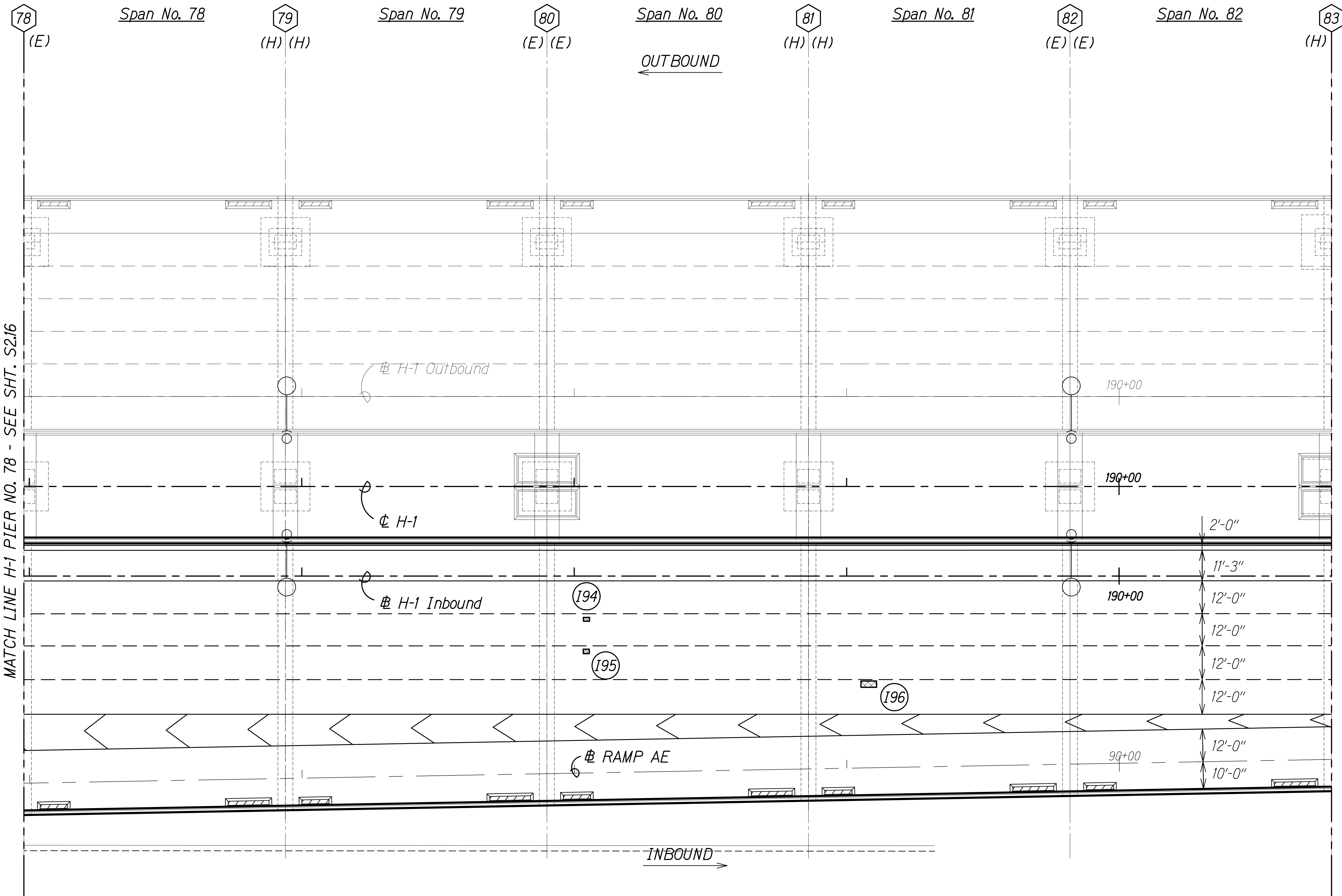
IB & RAMP AE REPAIR PLAN
SPAN NO. 78 TO SPAN NO. 82

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

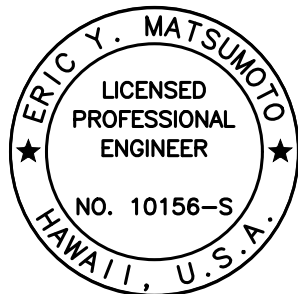
Scale: As Noted Date: Aug. 2020

SHEET No. S2.17 OF 34 SHEETS

ADD. 180



SPAN NO. 78 TO SPAN NO. 82
Scale: 1" = 20'-0"



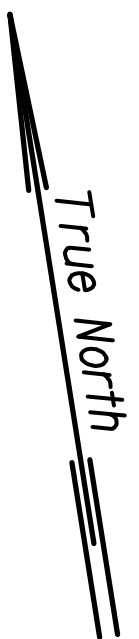
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0216 CLIP5 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:39 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 181	214



Notes:

- See Sheet S1.4 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair
(See Schedule on Sheets S2.31 to S2.33)
- AE# Ramp AE Repair
(See Schedule on Sheet S2.34)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

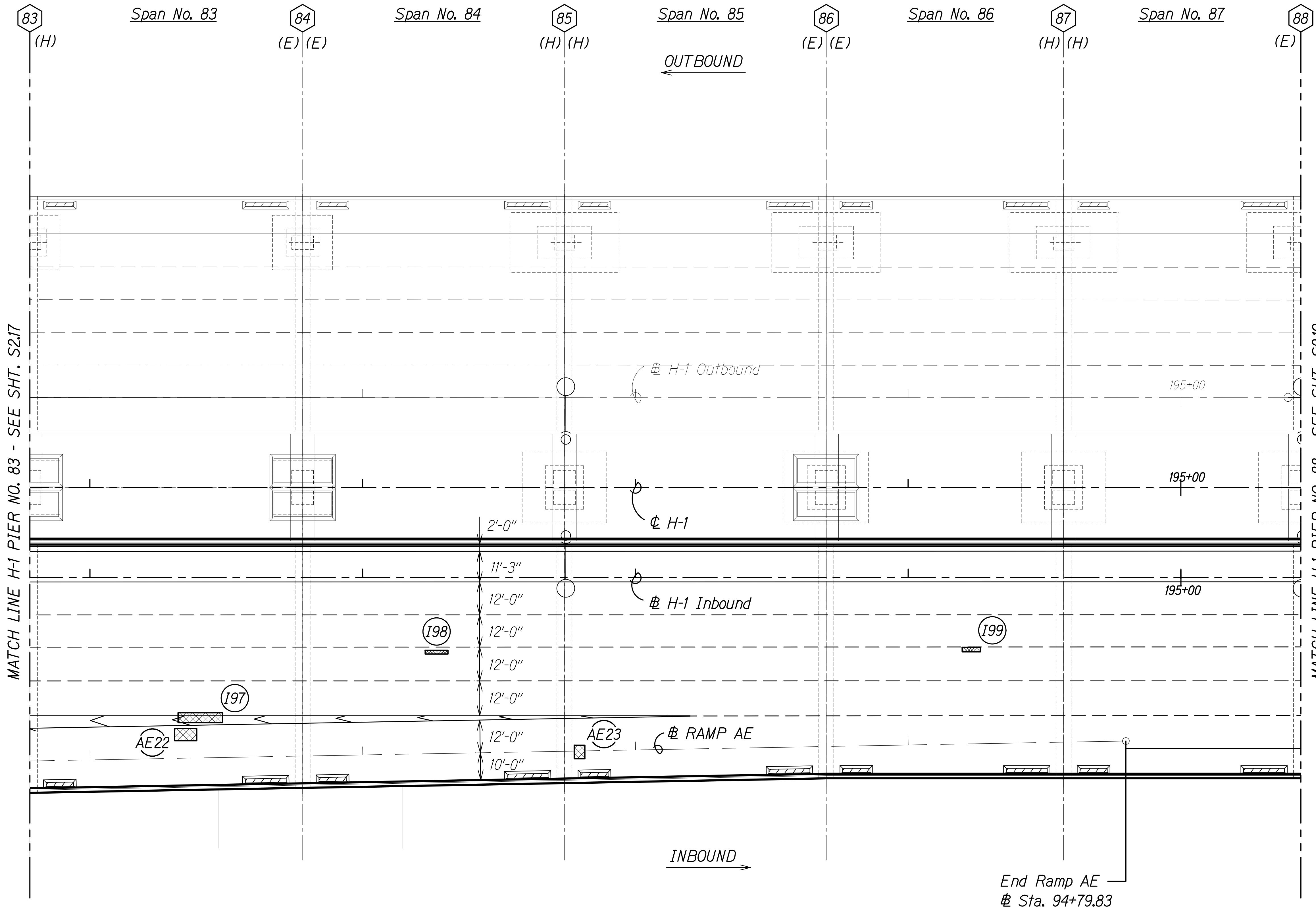
IB & RAMP AE REPAIR PLAN
SPAN NO. 83 TO SPAN NO. 87

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

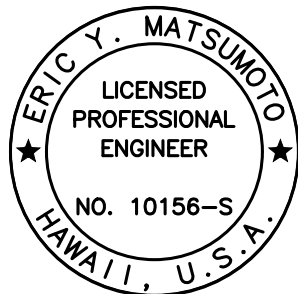
Scale: As Noted Date: Aug. 2020

SHEET No. S2.18 OF 34 SHEETS

ADD. 181



SPAN NO. 83 TO SPAN NO. 87
Scale: 1" = 20'-0"



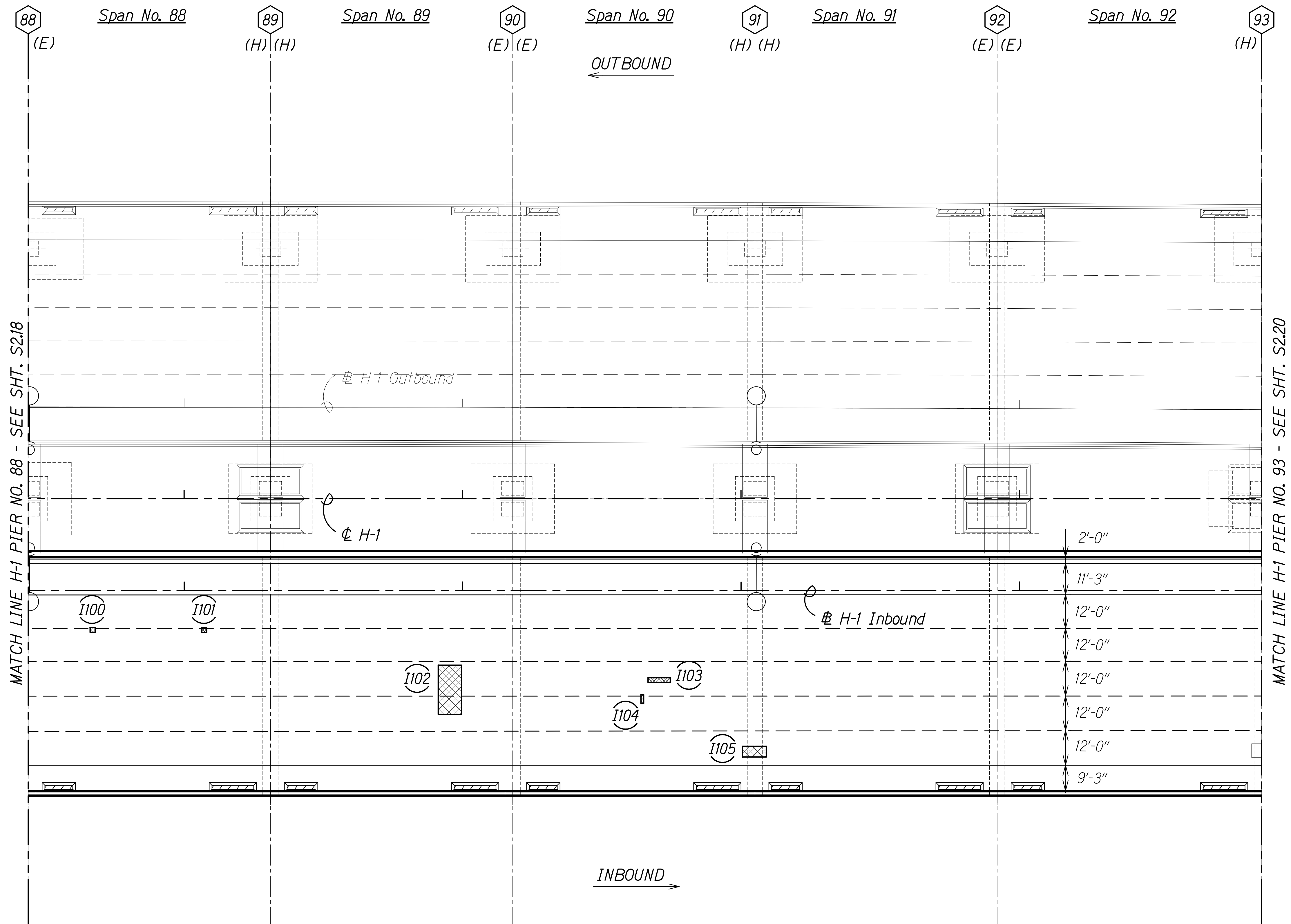
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0216 CLIP5 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20, 4:39 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 182	214



Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair (See Schedule on Sheets S2.31 to S2.33)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. 88 TO SPAN NO. 92
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: As Noted Date: Aug. 2020

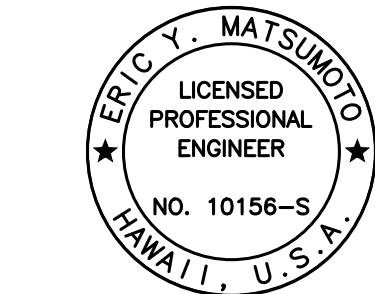
SHEET No. S2.19 OF 34 SHEETS

ADD. 182

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.1 AVR-S0219 CLIP6 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:40 PM

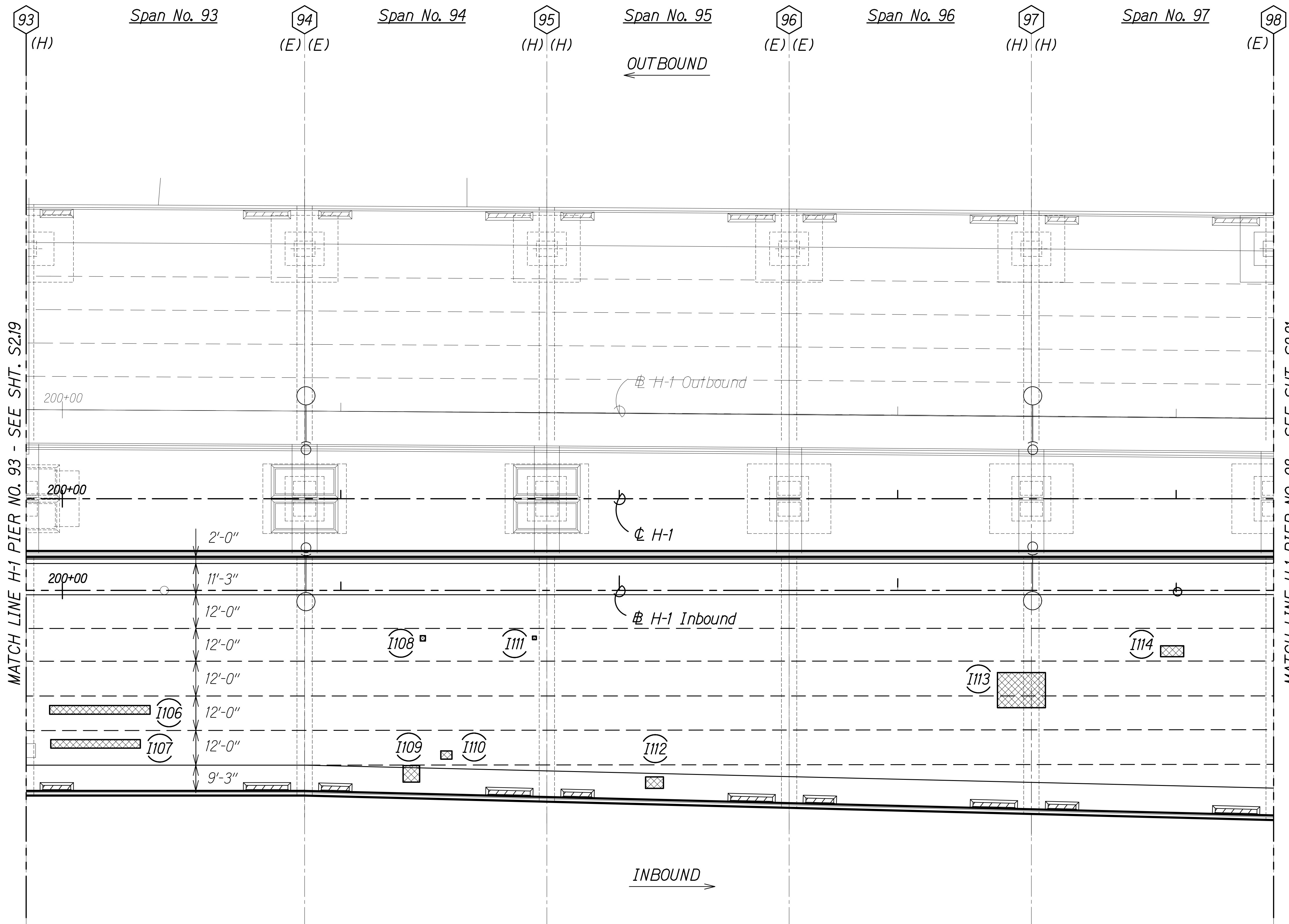
SPAN NO. 88 TO SPAN NO. 92
Scale: 1" = 20'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 183	214



Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

Pier No.

Inbound Repair
(See Schedule on
Sheets S2.31 to S2.33)

Repair Area

(E) Expansion Joint

(F) Fixed Joint

(H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IB REPAIR PLAN
SPAN NO. 93 TO SPAN NO. 97

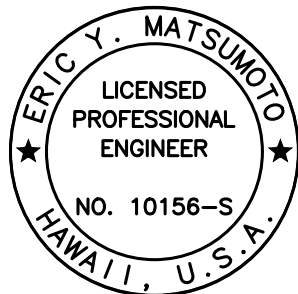
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: As Noted

Date: Aug. 2020

SHEET No. S2.20 OF 34 SHEETS

ADD. 183



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

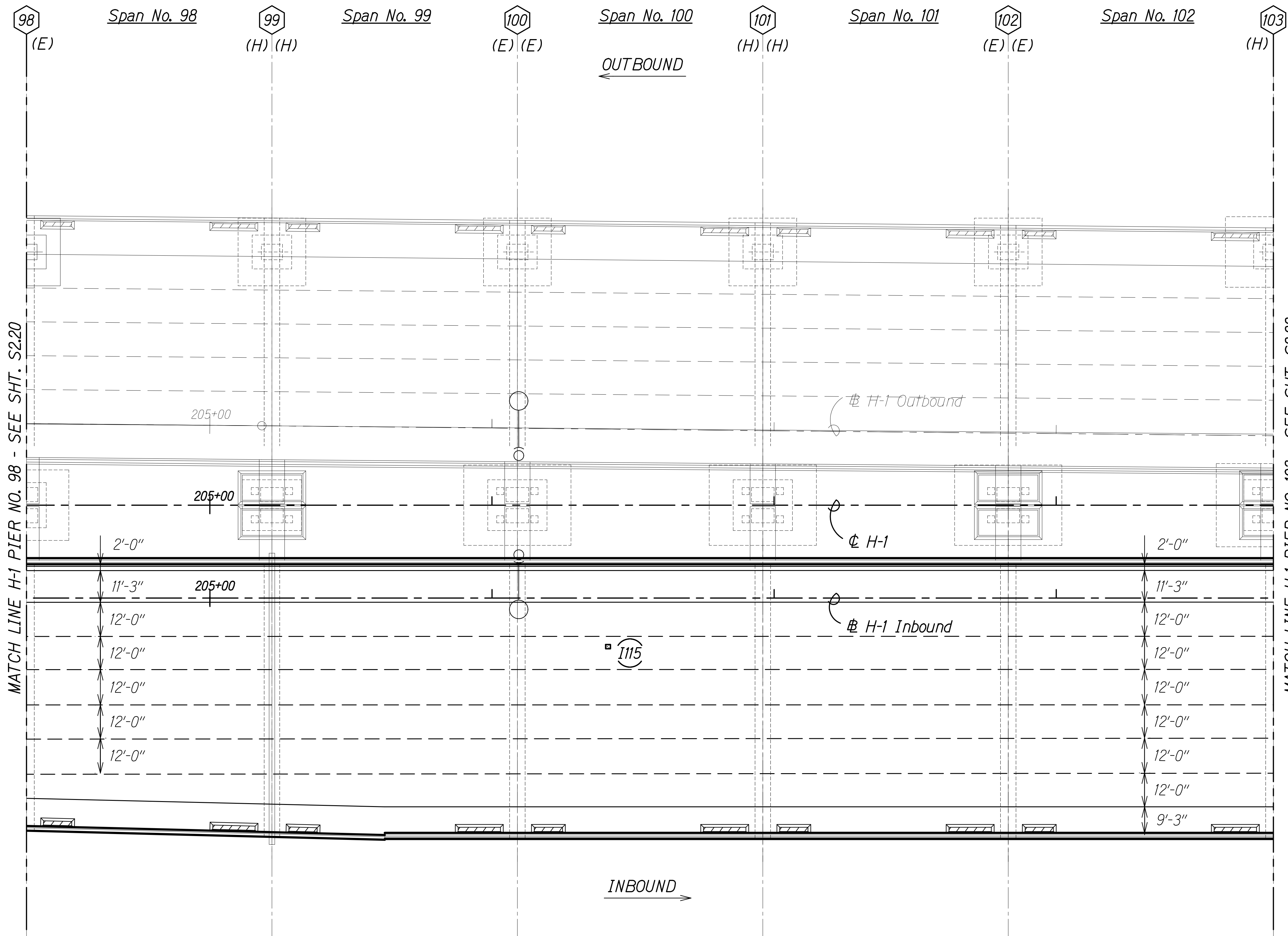
Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.1 AVR-S0219 CLIP6 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:41 PM

SPAN NO. 93 TO SPAN NO. 97
Scale: 1" = 20'-0"

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 184	214



Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

Pier No.

I# Inbound Repair
(See Schedule on
Sheets S2.31 to S2.33)

Repair Area

(E) Expansion Joint

(F) Fixed Joint

(H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

IB REPAIR PLAN
SPAN NO. 98 TO SPAN NO. 102

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: As Noted Date: Aug. 2020

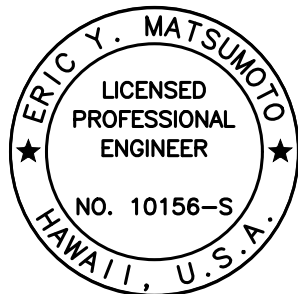
SHEET No. S2.21 OF 34 SHEETS

ADD. 184

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0219 CLIP6 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:41 PM

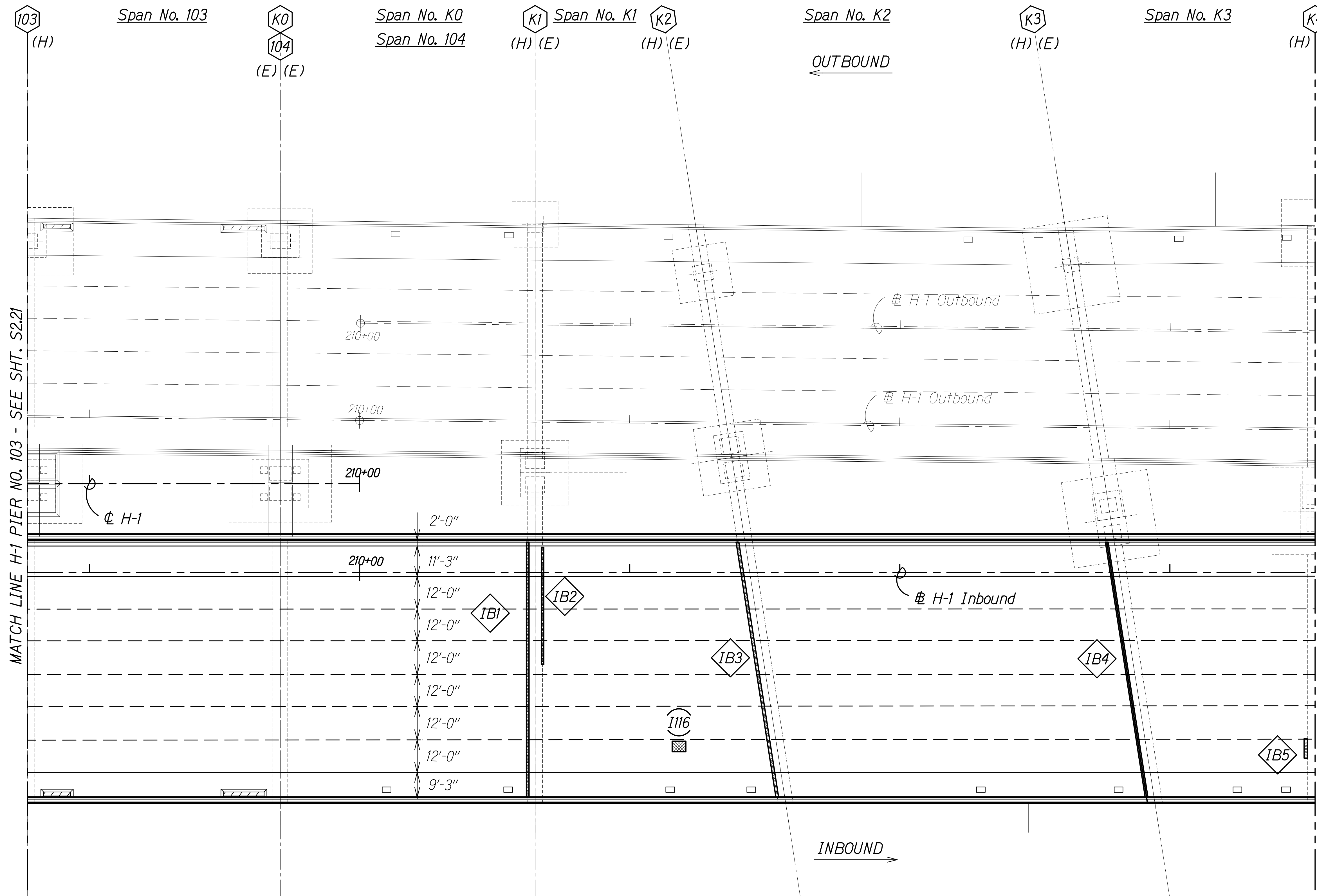
SPAN NO. 98 TO SPAN NO. 102
Scale: 1" = 20'-0"



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 185	214



- Notes:**
- See Sheet S1.4 for NDT limits.
 - See Sheet S0.2, Note 4.H.

- Legend:**
- # Pier No.
 - IB# Inboard Repair (See Schedule on Sheets S2.31 to S2.33)
 - IB# Inboard JT Repair (See Schedule on Sheet S2.33)
 - Repair Area
 - (E) Expansion Joint
 - (F) Fixed Joint
 - (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

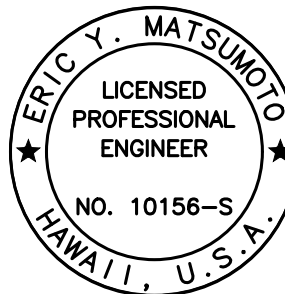
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. 103 TO SPAN NO. K3
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: As Noted Date: Aug. 2020

SHEET No. S2.22 OF 34 SHEETS

ADD. 185



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.1 AVR-S0219 CLIP6 H1 PLAN ADD.1.DWG PLOT TIME: 10-29-20 4:42 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 186	214

True North

Notes:

- See Sheet S1.4 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair
(See Schedule on
Sheets S2.31 to S2.33)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

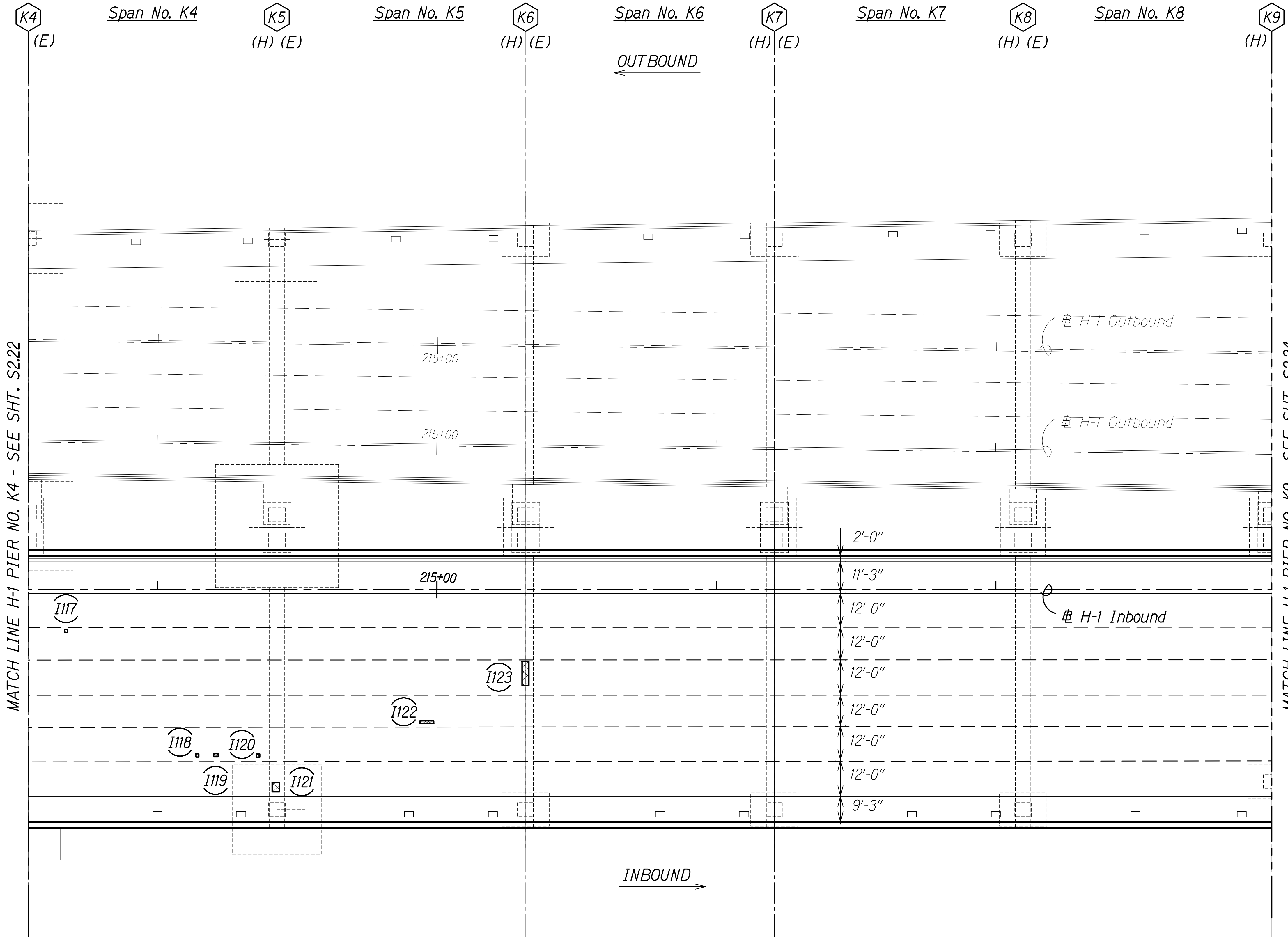
DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. K4 TO SPAN NO. K8
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

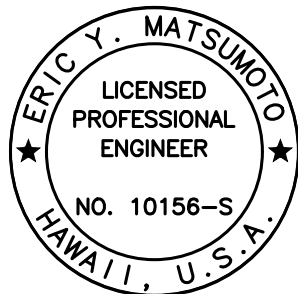
Scale: As Noted Date: Aug. 2020

SHEET No. S2.23 OF 34 SHEETS

ADD. 186



SPAN NO. K4 TO SPAN NO. K8
Scale: 1" = 20'-0"



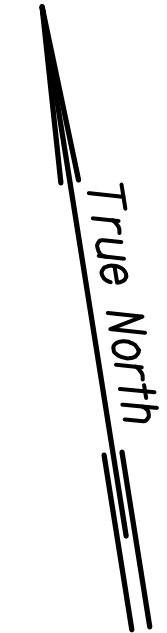
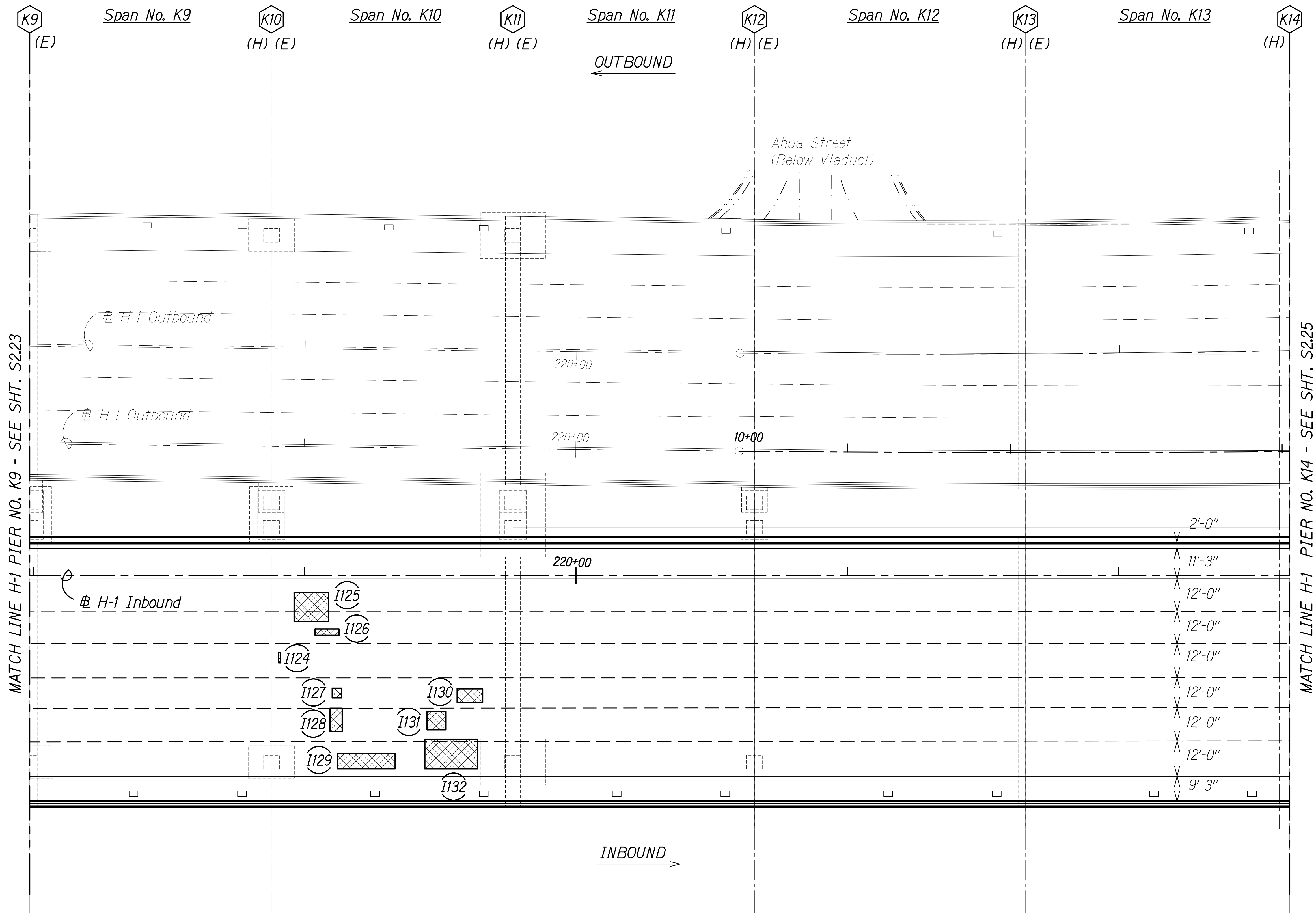
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
EXPIRATION DATE OF THE LICENSE

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.186-S0223 CUP7 H1 PLAN ADD.1.DWG PLOT TIME: 10-29-20. 4:42 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 187	214



Notes:

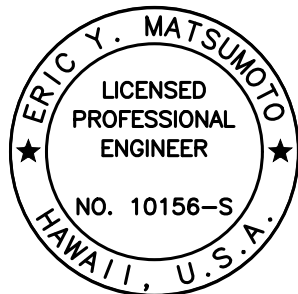
1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- Inbound Repair
(See Schedule on
Sheets S2.31 to S2.33)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

SPAN NO. K9 TO SPAN NO. K13

Scale: 1" = 20'-0"

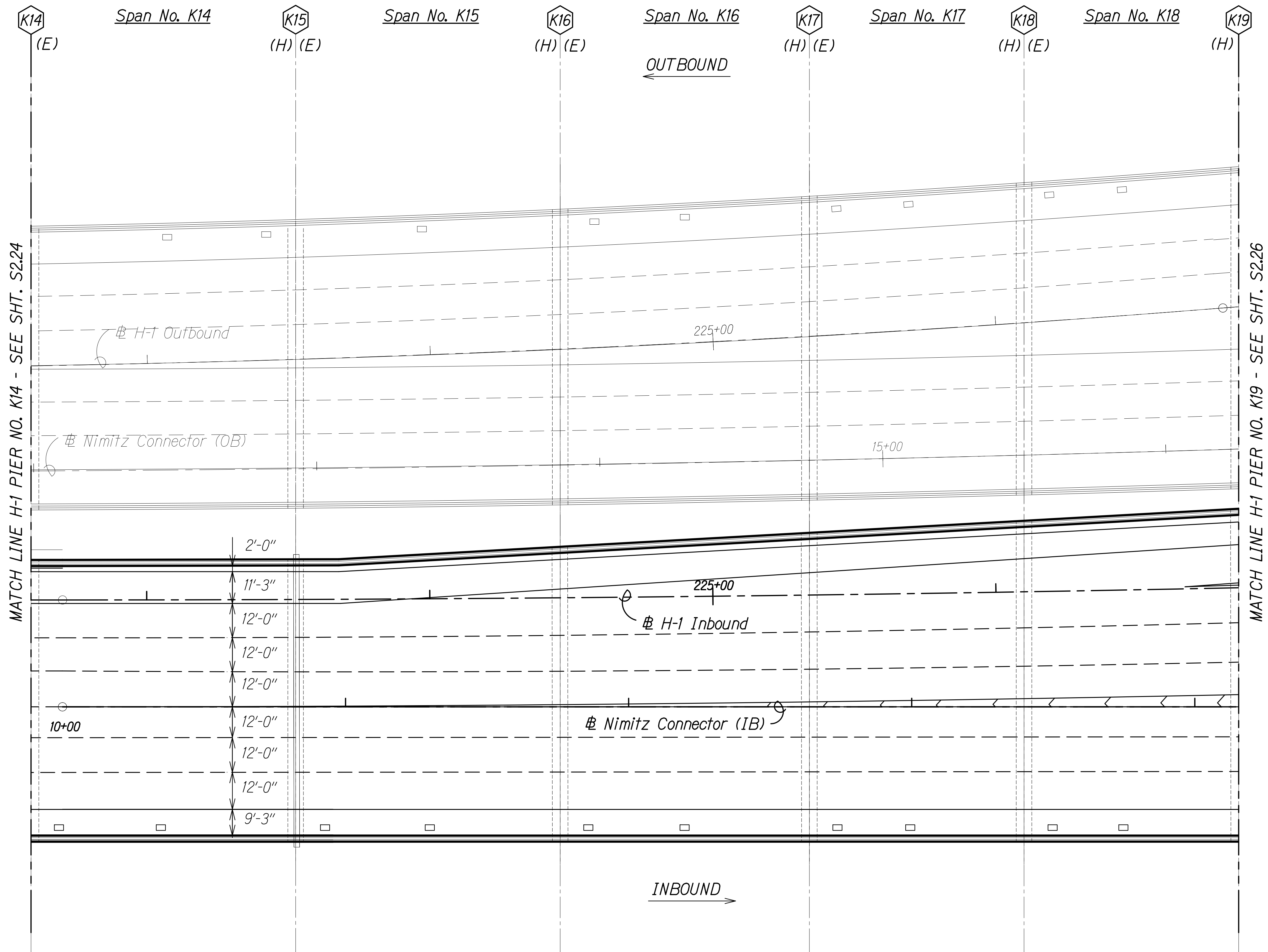


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: *Eric Y. Matsumoto*
4-30-22
EXPIRATION DATE OF THE LICENSE

10/28/20	1 Add. 1 - Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION IB REPAIR PLAN SPAN NO. K9 TO SPAN NO. K13 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: As Noted Date: Aug. 2020 SHEET No. S2.24 OF 34 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 188	214



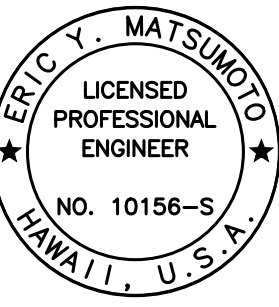
Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair
(See Schedule on
Sheets S2.31 to S2.33)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20	1 Add. 1 - Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION IB REPAIR PLAN SPAN NO. K14 TO SPAN NO. K18 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: As Noted Date: Aug. 2020	
SHEET No. S2.25 OF 34 SHEETS	



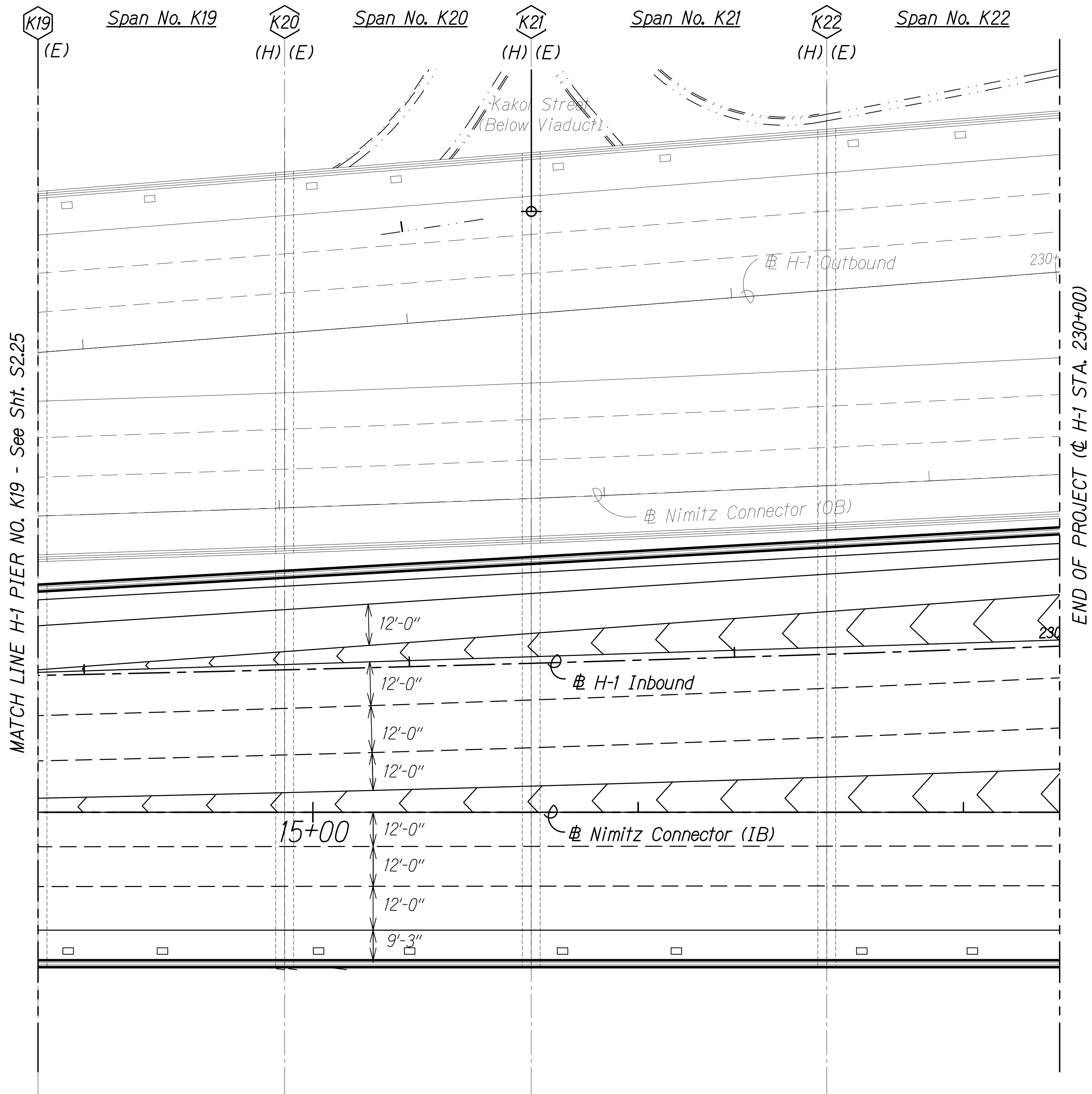
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\1.AVR-S0225 CLIP8 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:45 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 189	214



True North

Notes:

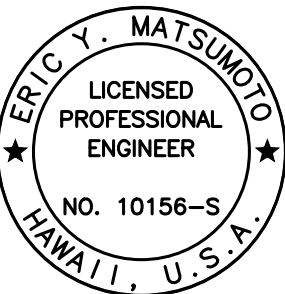
1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- I# Inbound Repair
(See Schedule on
Sheets S2.31 to S2.33)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION



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ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto

4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
IB REPAIR PLAN
SPAN NO. K19 TO SPAN NO. K22
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: As Noted Date: Aug. 2020

SHEET No. S2.26 OF 34 SHEETS

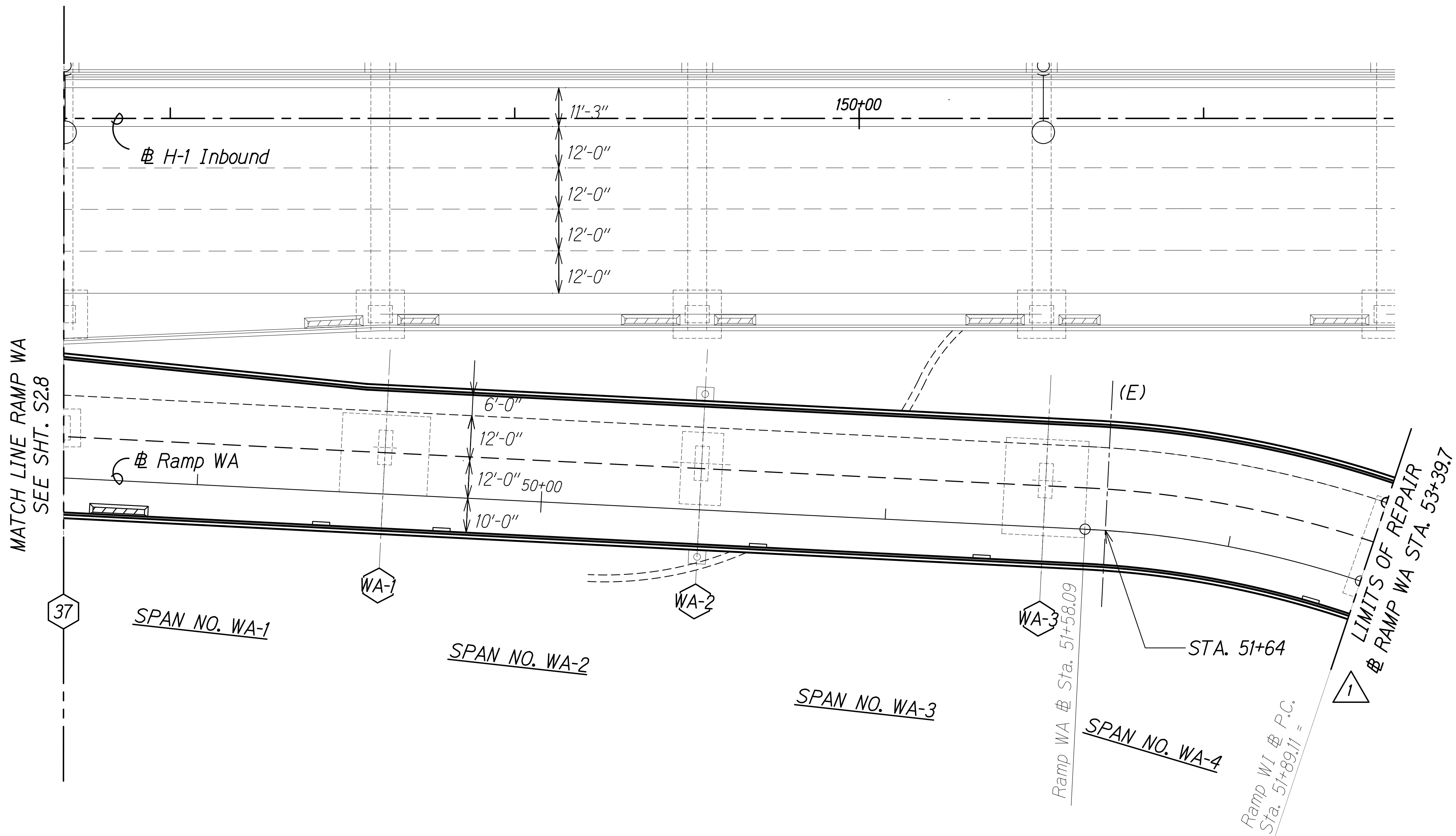
ADD. 189

SPAN NO. K19 TO SPAN NO. K22
Scale: 1" = 20'-0"

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.1 AVR-S0225 CLIP8 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:45 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 190	214



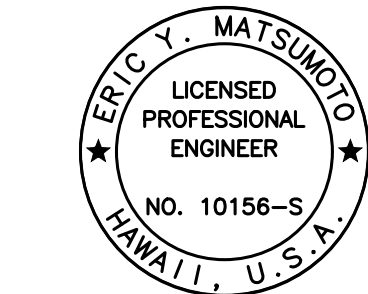
- Notes:
- See Sheet S1.4 for NDT limits.
 - See Sheet S0.2, Note 4.H.

- Legend:
- # Pier No.
 - WA# Ramp WA Repair (See Schedule on Sheet S2.34)
 - Repair Area
 - (E) Expansion Joint
 - (F) Fixed Joint
 - (H) Hinged Joint

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\AVR-S0227 CLIP3 RAMP PLAN ADD1.DWG PLOT TIME: 10-29-20, 4:46 PM)

MAKAI RAMP WA
SPAN NO. WA-1 TO SPAN NO. WA-5
Scale: 1" = 20'-0"

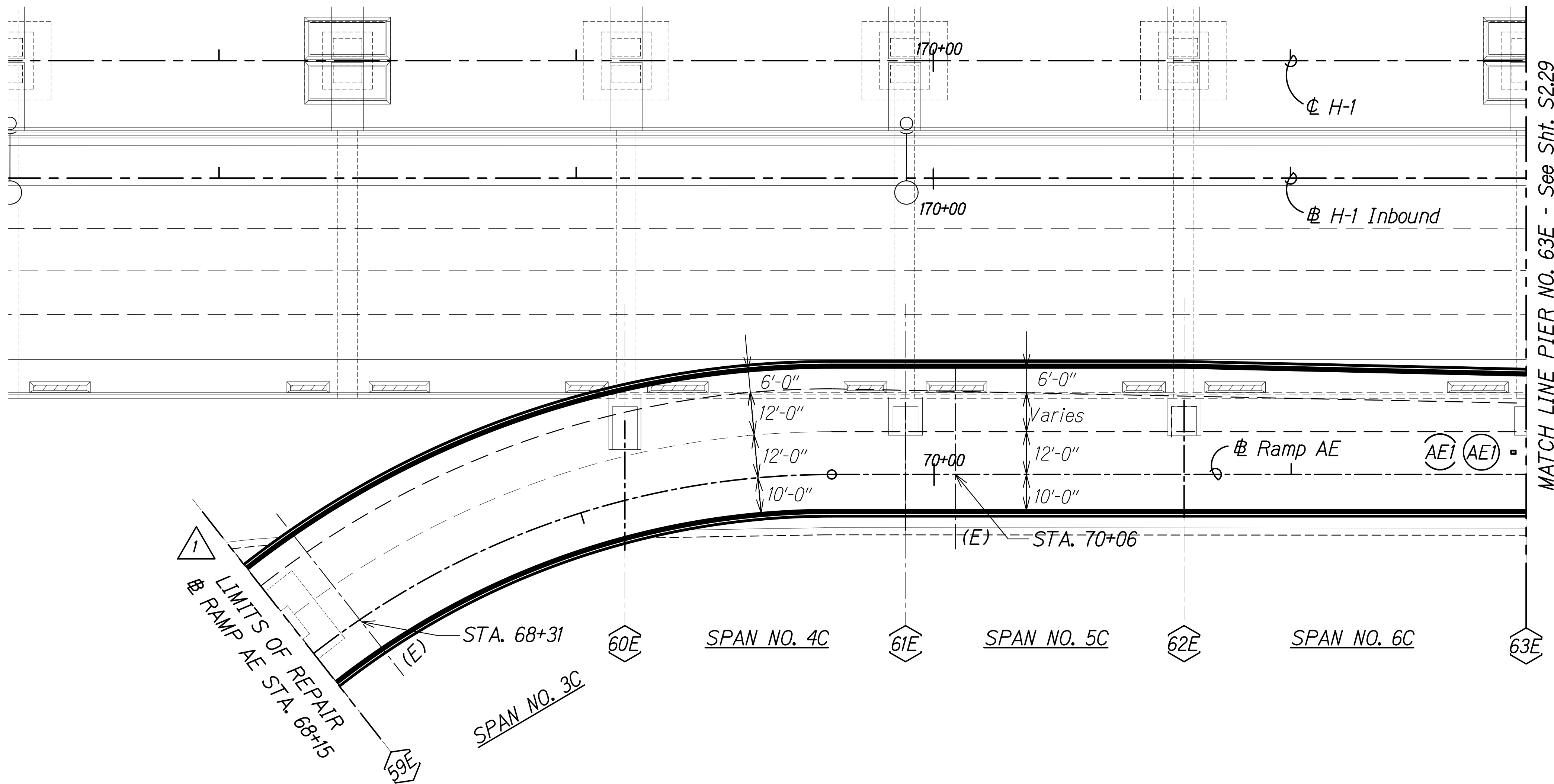


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
EXPIRATION DATE OF THE LICENSE

10/28/20	1 Add. 1 - Revised Notes
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RAMP WA REPAIR PLAN SPAN NO. WA-1 TO SPAN NO. WA-4 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: As Noted Date: Aug. 2020	
SHEET No. S2.27 OF 34 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 191	214



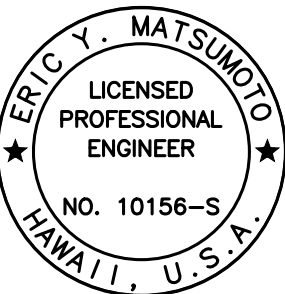
Notes:

1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- AE# Ramp AE Repair (See Schedule on Sheet S2.34)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

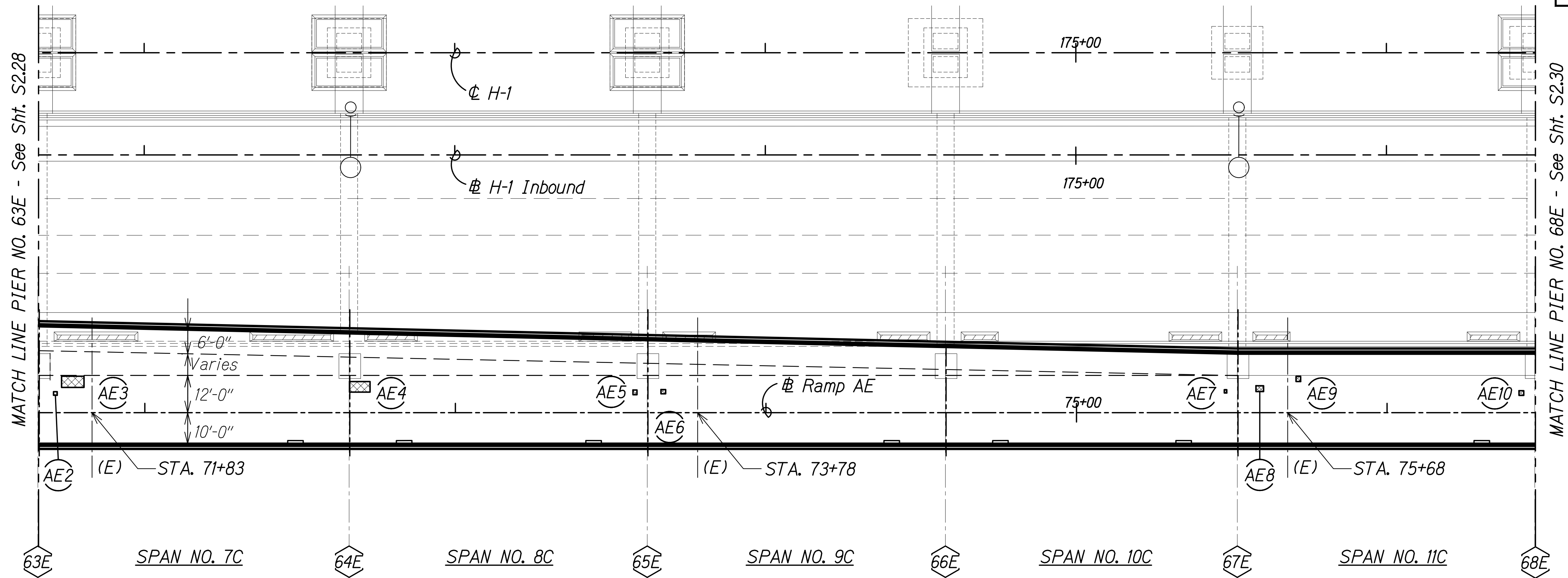
MAKAI RAMP AE
SPAN NO. 3C TO SPAN NO. 5C
Scale: 1" = 20'-0"



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ME OR UNDER MY SUPERVISION.
Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

10/28/20	1 Add. 1 - Revised Notes
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RAMP AE REPAIR PLAN SPAN NO. 3C TO SPAN NO. 6C 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: As Noted Date: Aug. 2020	
SHEET No. S2.28 OF 34 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 192	214



Notes:

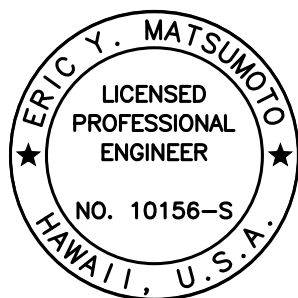
- See Sheet S1.4 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- AE# Ramp AE Repair
(See Schedule on Sheet S2.34)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

10/28/20 Add. 1 - Revised Note

DATE REVISION



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RAMP AE REPAIR PLAN
SPAN NO. 7C TO SPAN NO. 11C
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: As Noted Date: Aug. 2020

SHEET No. S2.29 OF 34 SHEETS

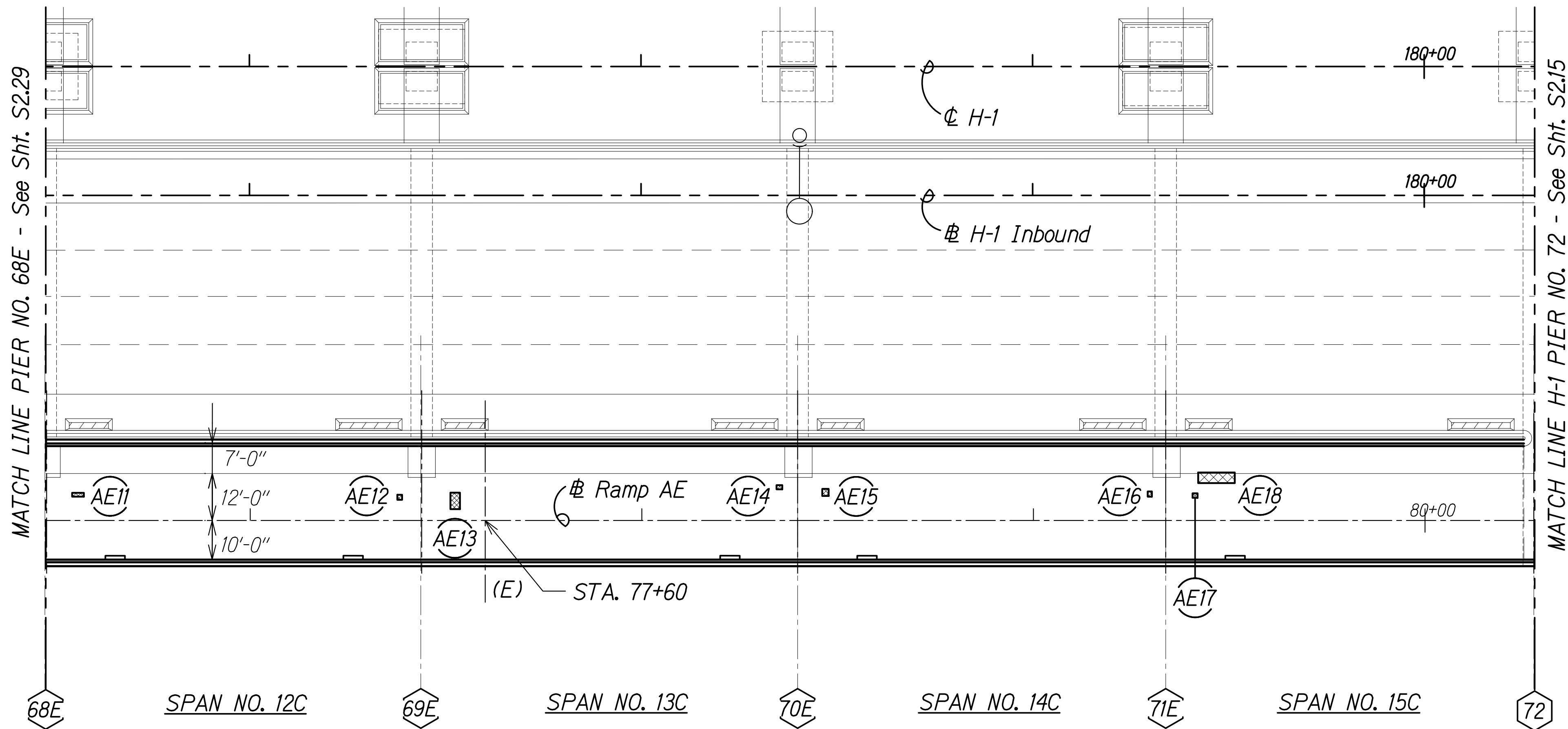
ADD. 192

MAKAI RAMP AE
SPAN NO. 7C TO SPAN NO. 11C
Scale: 1" = 20'-0"

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.1.AVR-S0227 CUP3 RAMP PLAN ADD.1.DWG PLOT TIME: 10-29-20, 4:46 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193	214



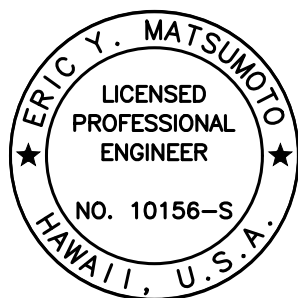
Notes:

- See Sheet S1.4 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- AE# Ramp AE Repair
(See Schedule on Sheet S2.34)
- Repair Area
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

MAKAI RAMP AE
SPAN NO. 12C TO SPAN NO. 15C
Scale: 1" = 20'-0"



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ME OR UNDER MY SUPERVISION.

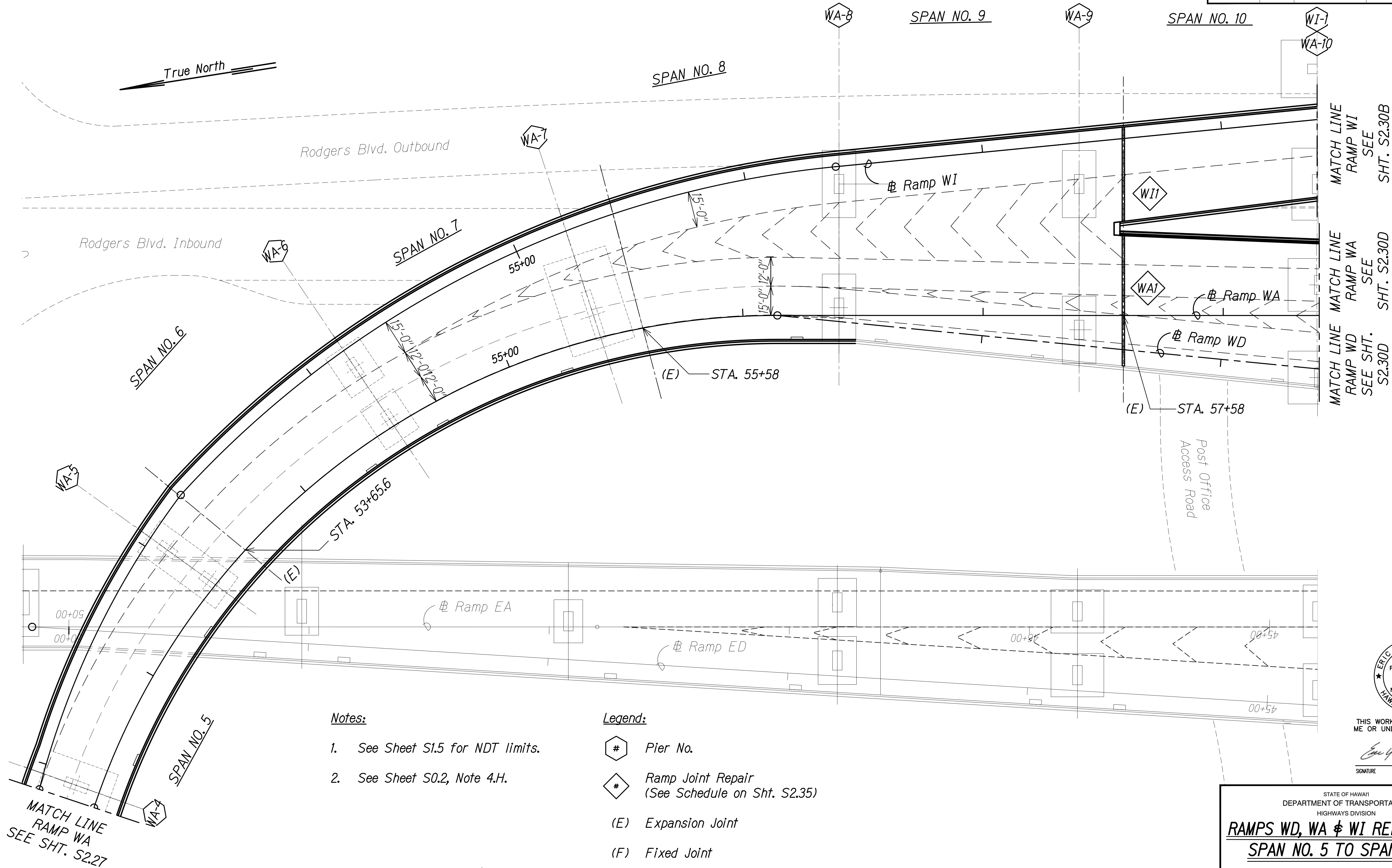
Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

10/28/20	1 Add. 1 - Revised Note
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RAMP AE REPAIR PLAN SPAN NO. 12C TO SPAN NO. 15C 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: As Noted Date: Aug. 2020 SHEET No. S2.30 OF 34 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193S-1	214

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.193S-1 EWA RAMP S ADD.1.DWG PLOT TIME: 10-29-20, 4:48 PM

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



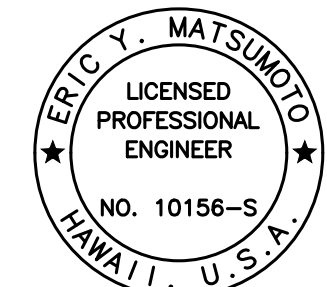
Notes:

- See Sheet S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- * Ramp Joint Repair (See Schedule on Sht. S2.35)
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

MAKAI RAMPS WD, WA & WI
SPAN NO. 5 TO SPAN NO. 10
Scale: 1" = 20'-0"



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SIGNATURE: Eric Y. Matsumoto
EXPIRATION DATE OF THE LICENSE: 4-30-22

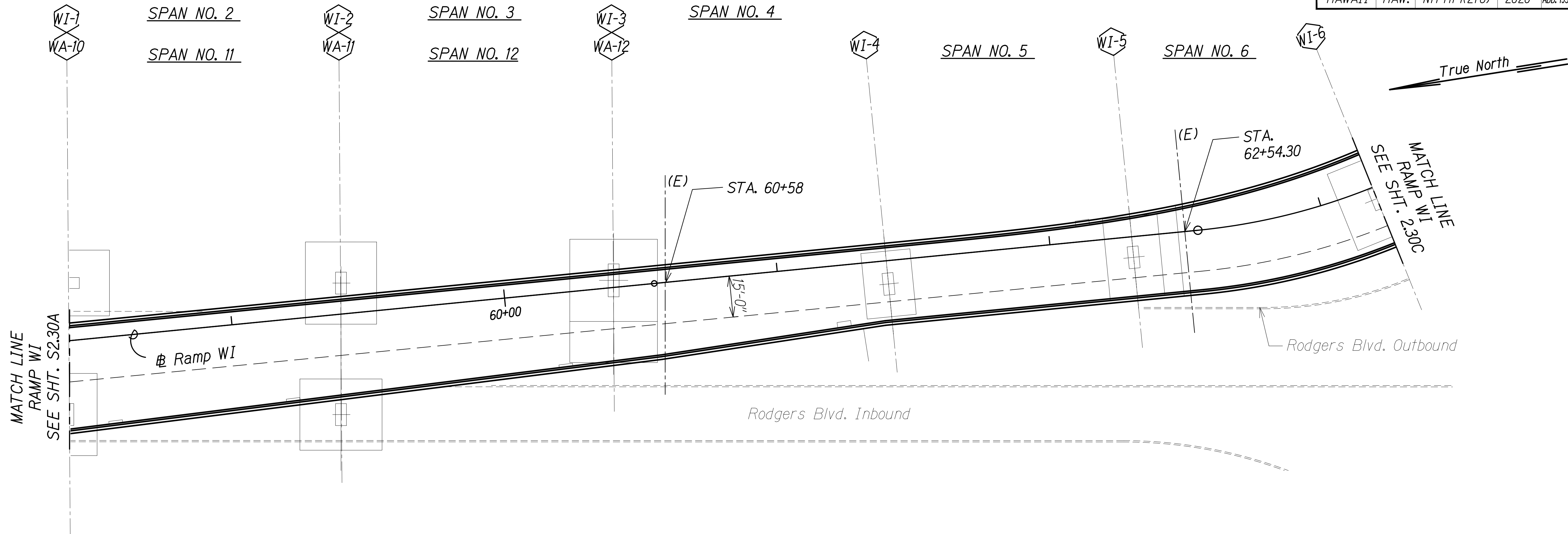
10/28/20	1	Add. 1 - New Sheet
DATE	REVISION	

Scale: As Noted Date: Aug. 2020
SHEET No. S2.30A OF 34 SHEETS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RAMPS WD, WA & WI REPAIR PLAN
SPAN NO. 5 TO SPAN NO. 10
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

ADD. 193S-1

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193S-2	214



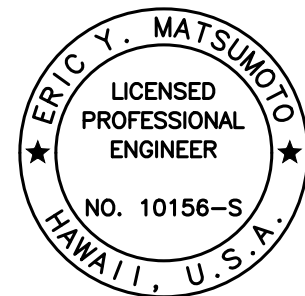
MAKAI RAMP WI
SPAN NO. 2 TO SPAN NO. 6
Scale: 1" = 20'-0"

Notes:

- See Sheet S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint



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ME OR UNDER MY SUPERVISION.

Eric Y. Matsumoto
SIGNATURE 4-30-22
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RAMP WI REPAIR PLAN
SPAN NO. 2 TO SPAN NO. 6
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

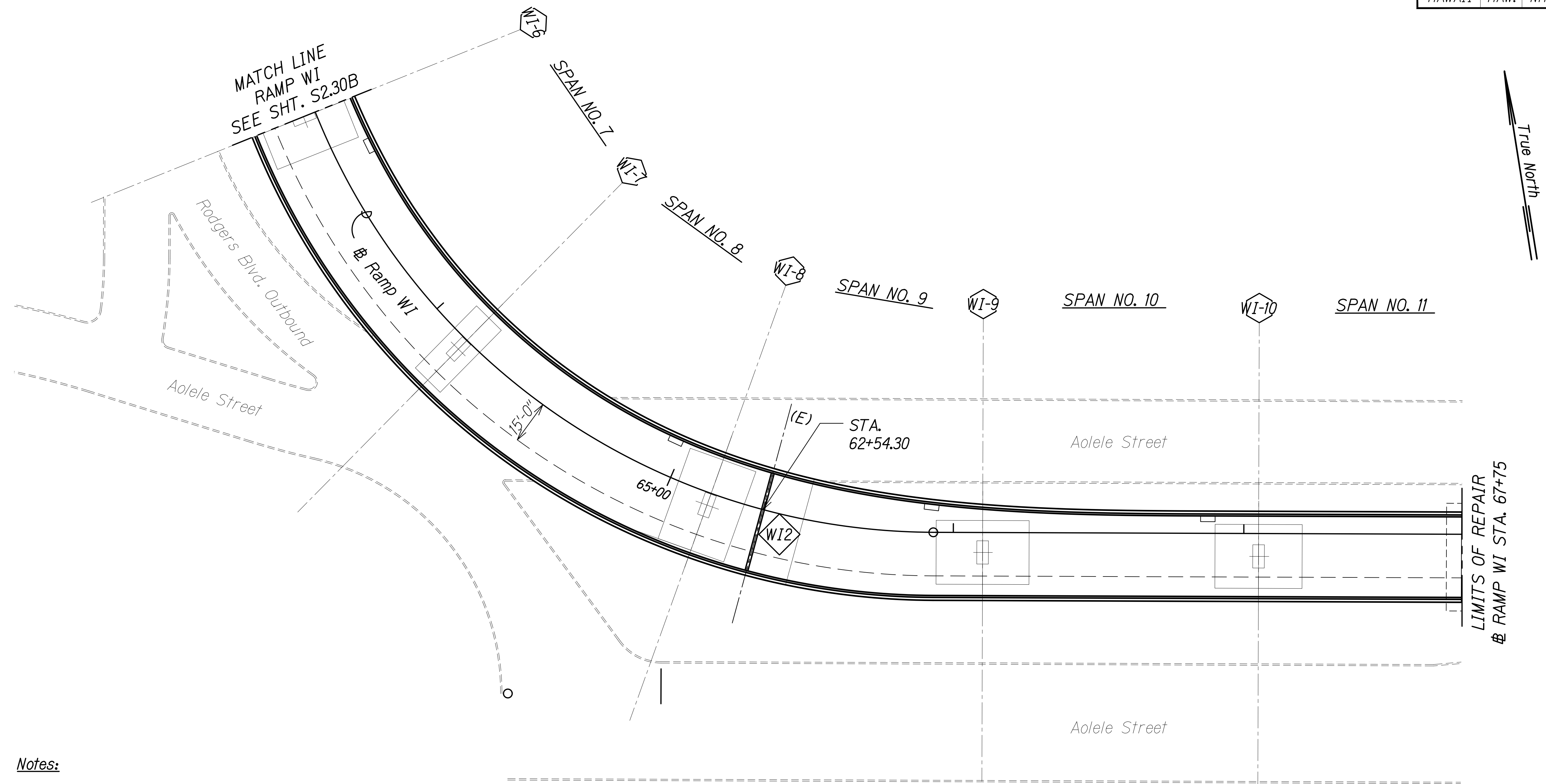
Scale: As Noted Date: Aug. 2020

SHEET No. S2.30B OF 34 SHEETS

ADD. 193S-2

10/28/20	1	Add. 1 - New Sheet
DATE		REVISION

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193S-3	214



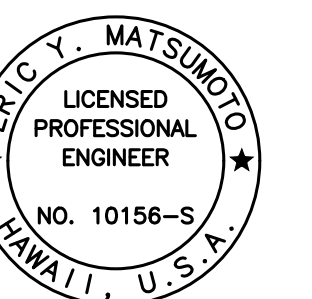
Notes:

1. See Sheet S1.5 for NDT limits.
2. See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- # Ramp Joint Repair
(See Schedule on Sht. S2.35)
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

MAKAI RAMP WI
SPAN NO. 7 TO SPAN NO. 11
Scale: 1" = 20'-0"



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Eric Y. Matsumoto
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RAMP WI REPAIR PLAN
SPAN NO. 7 TO SPAN NO. 11
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: As Noted Date: Aug. 2020
SHEET No. S2.30C OF 34 SHEETS

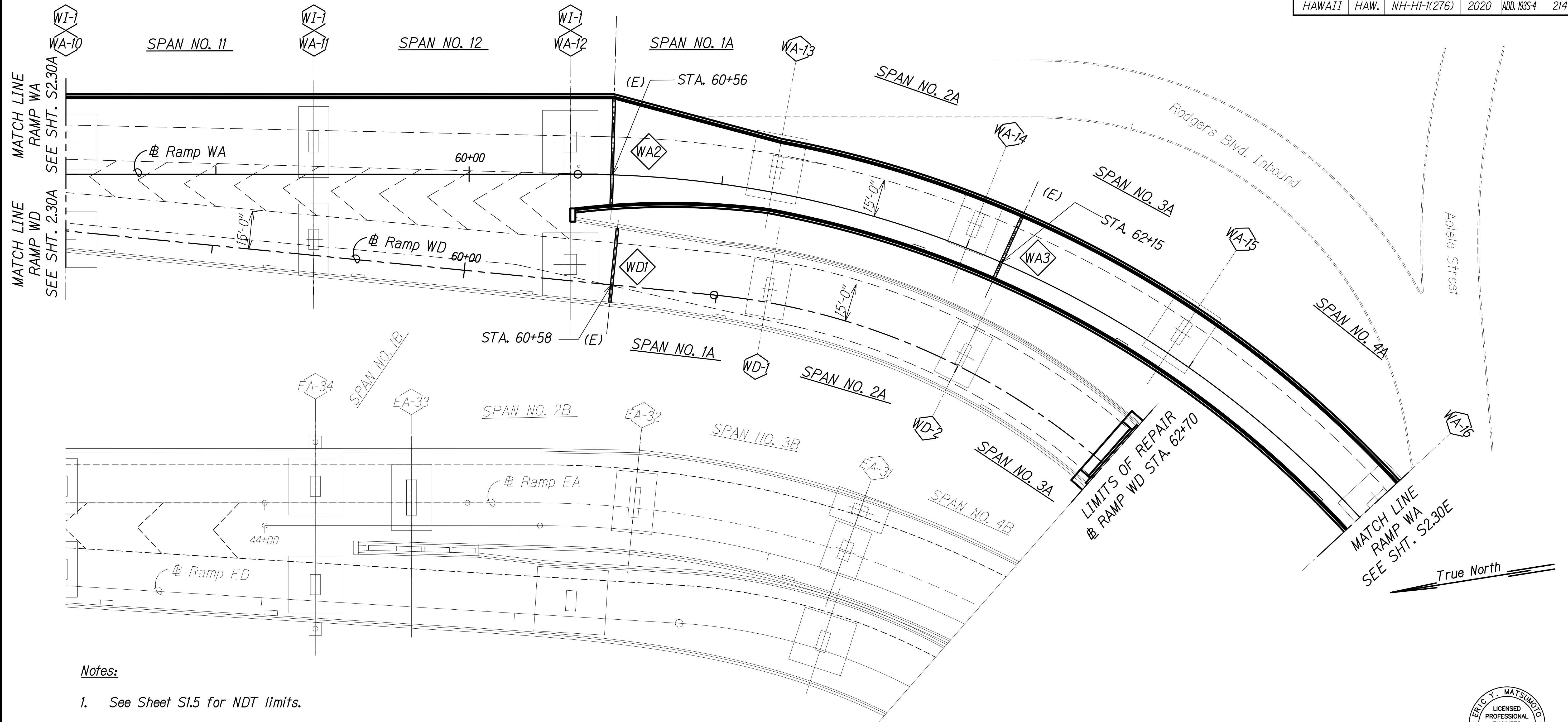
10/28/20	1	Add. 1 - New Sheet
DATE		REVISION

ADD. 193S-3

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0230A EWA RAMP S ADD1.DWG PLOT TIME: 10-29-20, 4:49 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193S-4	214



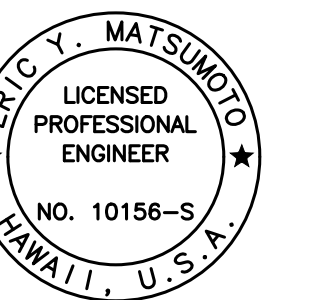
Notes:

- See Sheet S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- ◆ Ramp Joint Repair
(See Schedule on Sht. S2.35)
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

**MAKAI RAMPS WD & WA
SPAN NO. 11 TO SPAN NO. 4A**
Scale: 1" = 20'-0"



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Eric Y. Matsumoto
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**RAMPS WD & WA REPAIR PLAN
SPAN NO. 11 TO SPAN NO. 4A**
**INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)**

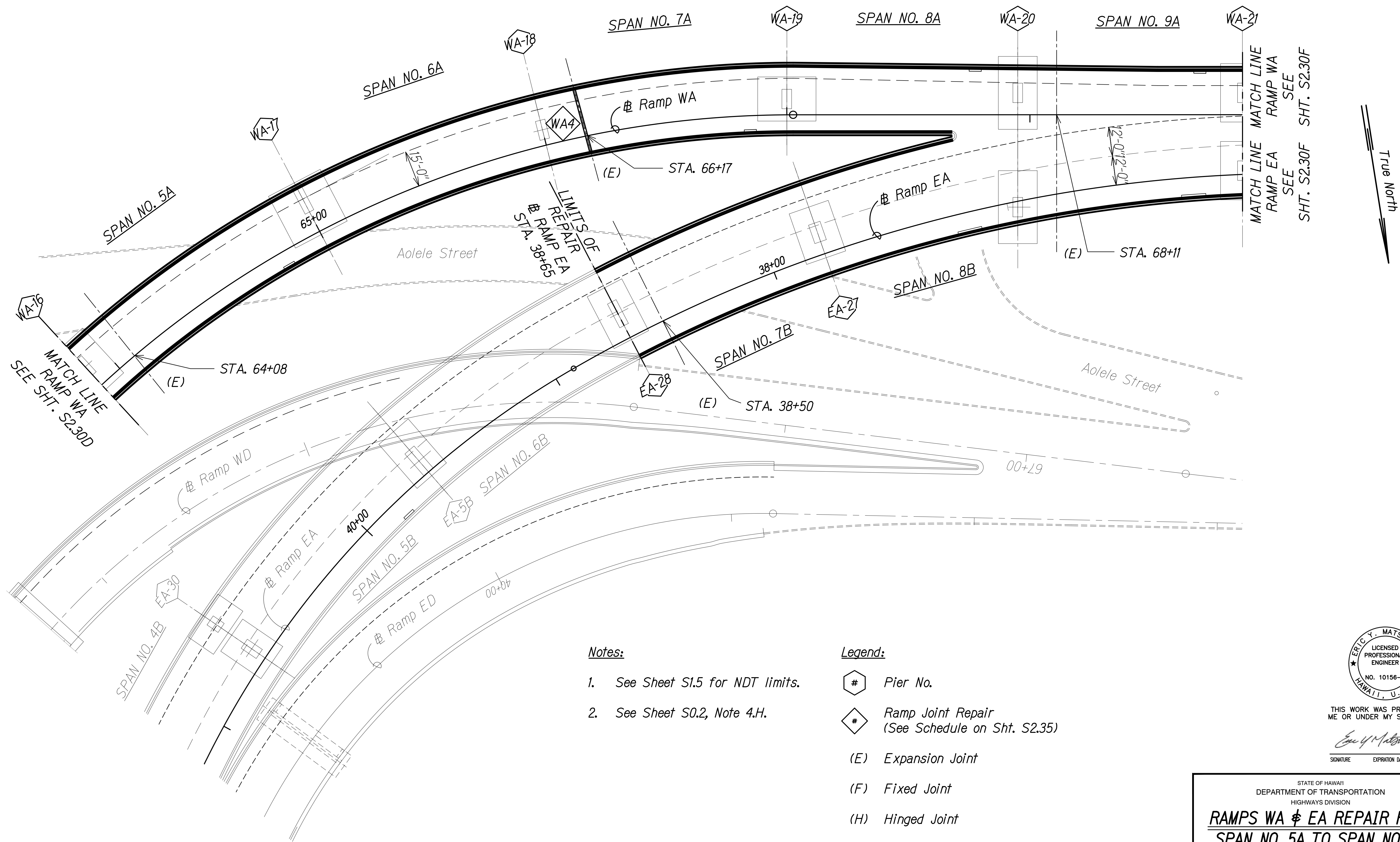
Scale: As Noted Date: Aug. 2020

SHEET No. S2.30D OF 34 SHEETS

ADD. 193S-4

10/28/20	1	Add. 1 - New Sheet
DATE		REVISION

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193S-5	214



Notes:

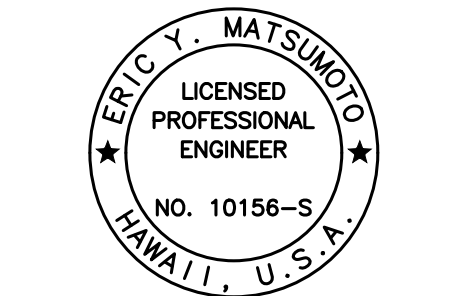
- See Sheet S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- # Ramp Joint Repair (See Schedule on Sht. S2.35)
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

MAKAI RAMPS WA & EA
SPAN NO. 5A TO SPAN NO. 9A
Scale: 1" = 20'-0"

10/28/20	1	Add. 1 - New Sheet
DATE		REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RAMPS WA & EA REPAIR PLAN
SPAN NO. 5A TO SPAN NO. 9A
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: As Noted Date: Aug. 2020

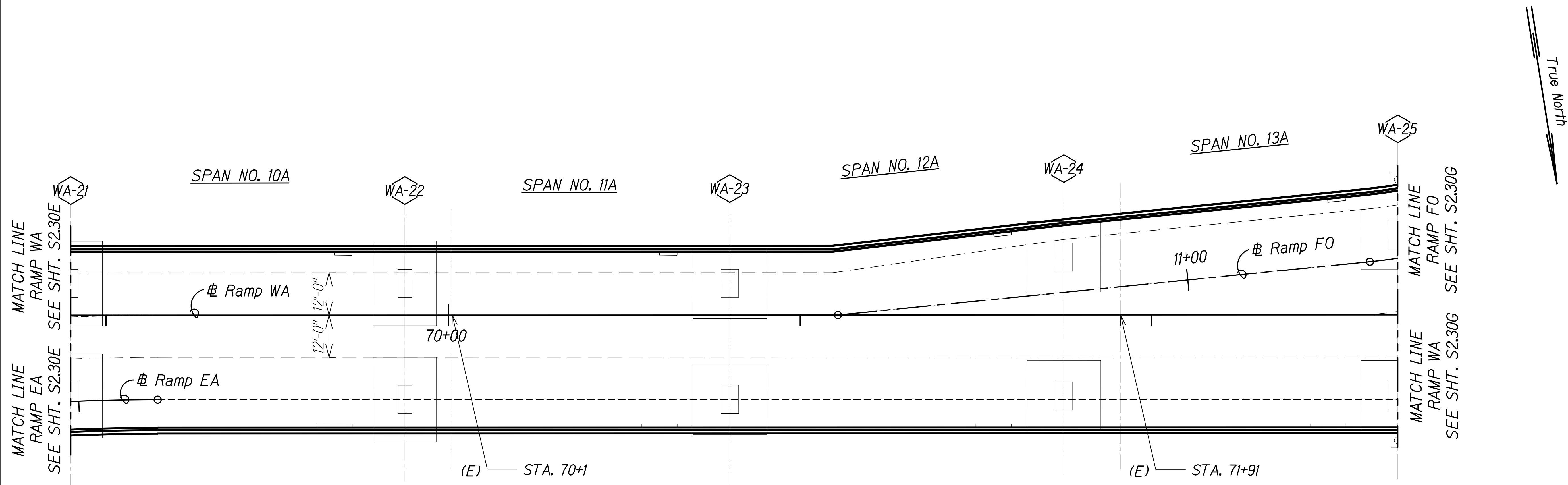
SHEET No. S2.30E OF 34 SHEETS

ADD. 193S-5

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0230A EWA RAMPS ADD1.DWG PLOT TIME: 10-29-20, 4:50 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193S-6	214



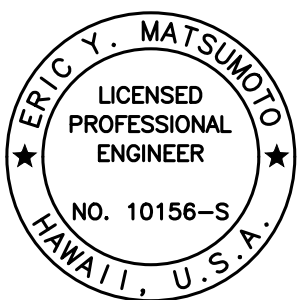
MAKAI RAMPS WA & FO
SPAN NO. 10A TO SPAN NO. 13A
Scale: 1" = 20'-0"

Notes:

- See Sheet S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint



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ME OR UNDER MY SUPERVISION.

Eric Y. Matsumoto
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RAMPS WA & FO REPAIR PLAN
SPAN NO. 10A TO SPAN NO. 13A

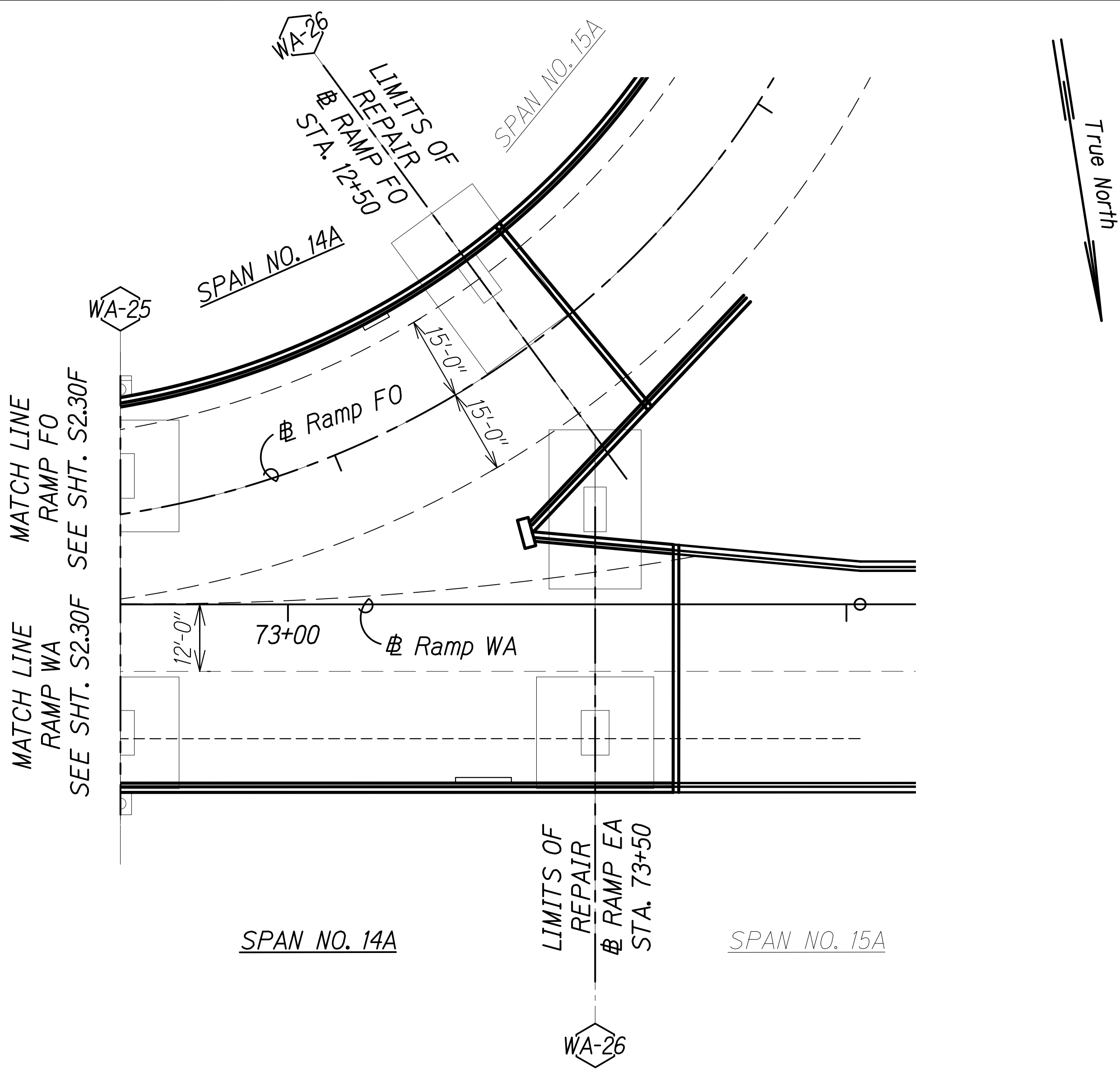
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: As Noted Date: Aug. 2020

SHEET No. S2.30F OF 34 SHEETS

10/28/20	1	Add. 1 - New Sheet
DATE	REVISION	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(K276)	2020	ADD. 193S-7	214



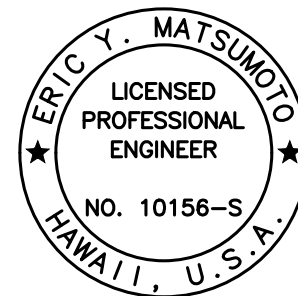
MAKAI RAMPS WA & FO
SPAN NO. 14A
Scale: 1" = 20'-0"

Notes:

- See Sheet S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Eric Y. Matsumoto
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

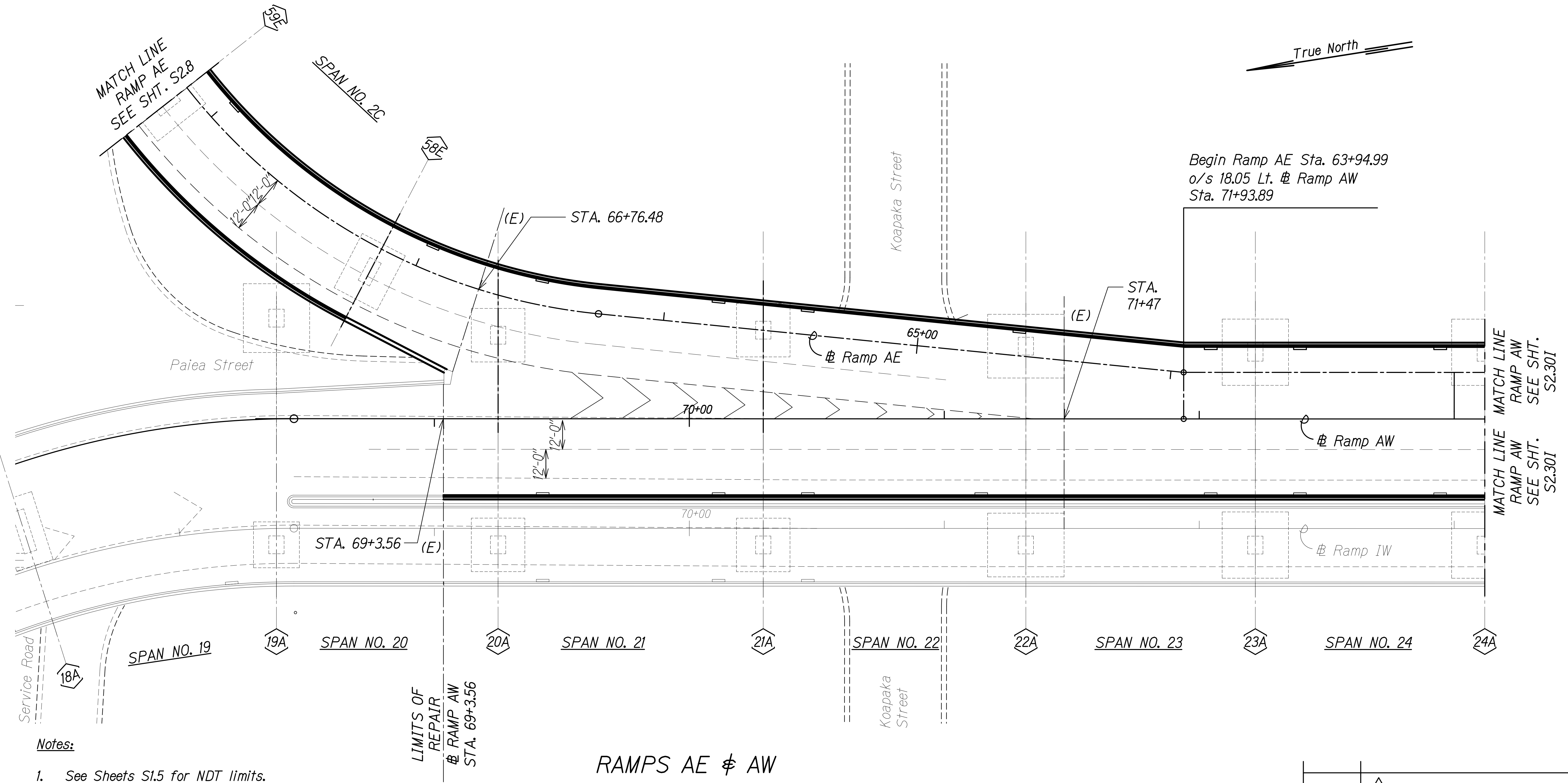
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
RAMPS WA & FO REPAIR PLAN
SPAN NO. 14A
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(K276)
Scale: As Noted Date: Aug. 2020
SHEET No. S2.30G OF 34 SHEETS

10/28/20	1	Add. 1 - New Sheet
DATE	REVISION	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193S-8	214

DRAWING NAME: Z:\00 ONGOING\19-009-8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\19-28-20 ADD1\AVR-50230H DHEAD RAMPS ADD1.DWG PLOT TIME: 10-29-20, 4:57 PM

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	



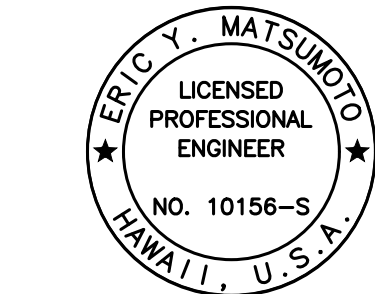
Notes:

- See Sheets S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

RAMPS AE & AW
SPAN NO. 20 TO SPAN NO. 24
Scale: 1" = 20'-0"

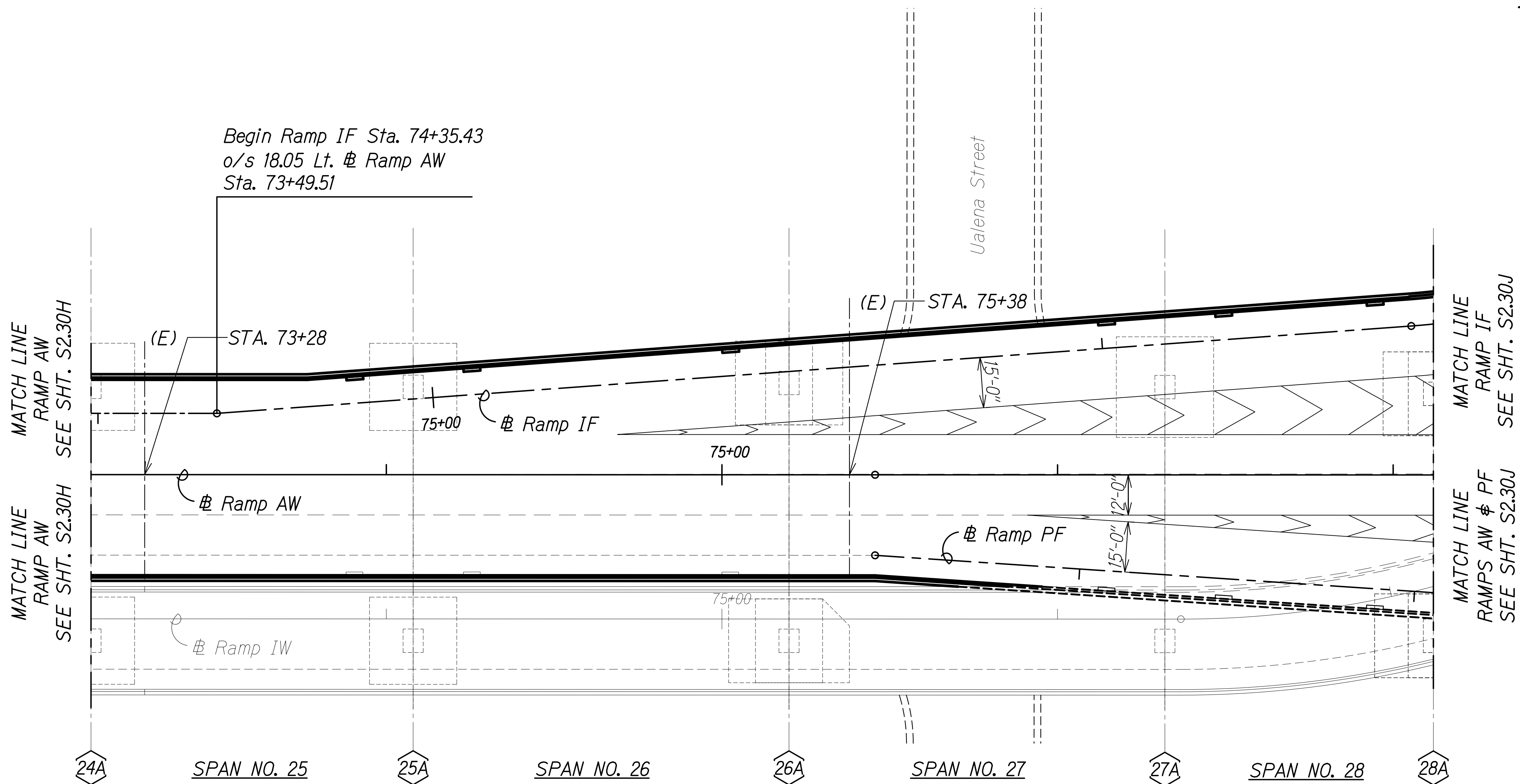


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Eric Y. Matsumoto
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

10/28/20	1 Add. 1 - New Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RAMPS AE & AW REPAIR PLAN SPAN NO. 20 TO SPAN NO. 24 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: As Noted Date: Aug. 2020 SHEET No. S2.30H OF 34 SHEETS	

ADD. 193S-8

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193S-9	214



Notes:

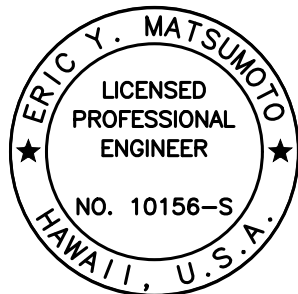
- See Sheets S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

RAMPS AW, IF & PF
SPAN NO. 25 TO SPAN NO. 28
Scale: 1" = 20'-0"

10/28/20		Add. 1 - New Sheet
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
<u>RAMPS AW, IF & PF REPAIR PLAN</u> <u>SPAN NO. 25 TO SPAN NO. 28</u>		
<u>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</u> <u>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</u> <u>FEDERAL-AID PROJECT NO. NH-HI-1(276)</u>		
Scale: As Noted	Date: Aug. 2020	
SHEET No. S2.30I OF 34 SHEETS		



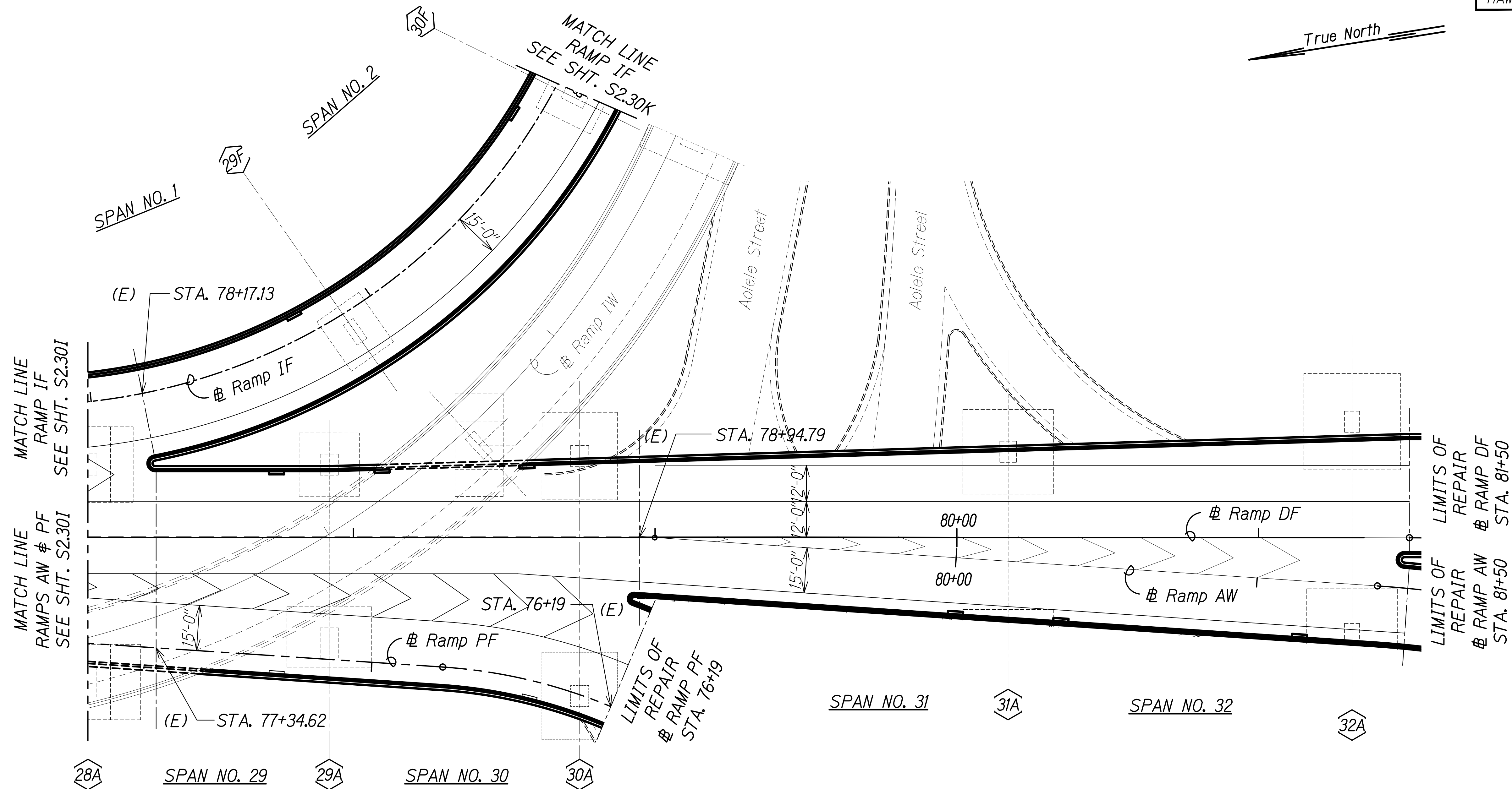
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

SIGNATURE: *Eric Y. Matsumoto*
EXPIRATION DATE OF THE LICENSE: 4-30-22

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.1.AVR-S02.30H.DHEAD RAMPS ADD.1.DWG PLOT TIME: 10-29-20 4:57 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 193S-10	214



Notes:

- See Sheets S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

RAMPS AW, DF, IF & PF
SPAN NO. 29 TO SPAN NO. 32
Scale: 1" = 20'-0"

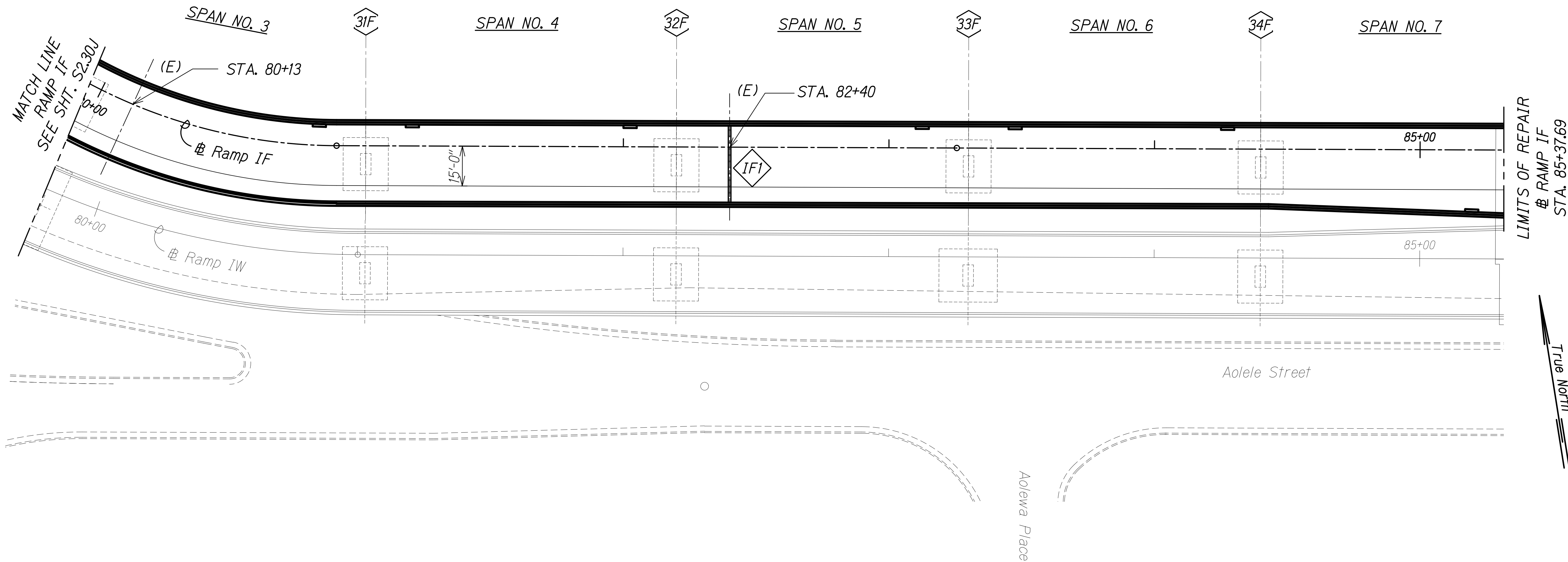
10/28/20	1 Add. 1 - New Sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION RAMPS AW, DF, IF & PF REPAIR PLAN SPAN NO. 29 TO SPAN NO. 32 INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2 FEDERAL-AID PROJECT NO. NH-HI-1(276) Scale: As Noted Date: Aug. 2020	
SHEET No. S2.30J OF 34 SHEETS	

ERIC Y. MATSUMOTO
LICENSED PROFESSIONAL ENGINEER
NO. 10156-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Eric Y. Matsumoto
SIGNATURE
4-30-22
EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(1276)	2020	ADD. 193S-11	214



Notes:

- See Sheets S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

Legend:

- # Pier No.
- * Ramp Joint Repair (See Schedule on Sht. S2.35)
- (E) Expansion Joint
- (F) Fixed Joint
- (H) Hinged Joint

RAMP IF
SPAN NO. 2 TO SPAN NO. 7
Scale: 1" = 20'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\AVR-S0230H DHEAD RAMPS ADD1.DWG PLOT TIME: 10-29-20 4:58 PM

ERIC Y. MATSUMOTO

LICENSED PROFESSIONAL ENGINEER

NO. 10156-S

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Eric Y. Matsumoto

4-30-22

SIGNATURE EXPIRATION DATE OF THE LICENSE

10/28/20	1	Add. 1 - New Sheet
DATE	REVISION	

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

RAMP IF REPAIR PLAN

SPAN NO. 2 TO SPAN NO. 7

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: As Noted

Date: Aug. 2020

SHEET No. S2.30K OF 34 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 197S-1	214

RAMP WA JOINT REPAIR SCHEDULE			
ITEM NO.	PIER NO. & DESCRIPTION	REPAIR DETAIL	LENGTH (FT)
WA1	Near WA-9		54
WA2	Near WA-12		42
WA3	Near WA-14		27
WA4	Near WA-18		26
Total Length (ft.)			149

RAMP WD JOINT REPAIR SCHEDULE			
ITEM NO.	PIER NO. & DESCRIPTION	REPAIR DETAIL	LENGTH (FT)
WD1	Near WA-12		29
Total Length (ft.)			29

RAMP WI JOINT REPAIR SCHEDULE			
ITEM NO.	PIER NO. & DESCRIPTION	REPAIR DETAIL	LENGTH (FT)
WI1	Near WA-9		39
WI2	Near WI-8		35
Total Length (ft.)			74

RAMP IF JOINT REPAIR SCHEDULE			
ITEM NO.	PIER NO. & DESCRIPTION	REPAIR DETAIL	LENGTH (FT)
IF1	Near 32F		29
Total Length (ft.)			29

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\1 AVR-50235 RPR TBL RAMP5 ADD1.DWG PLOT TIME: 10-29-20, 5:01 PM)

10/28/20		Add. 1 - New Sheet
DATE	REVISION	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

RAMPS WA, WD, WI & IF
REPAIR SCHEDULES

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: None Date: Aug. 2020

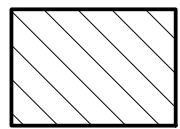
SHEET No. S2.35 OF 34 SHEETS

THIS WORK WAS PREPARED BY
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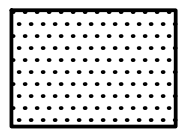
Eric Y. Matsumoto
SIGNATURE 4-30-22
EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 198	214

LEGEND:



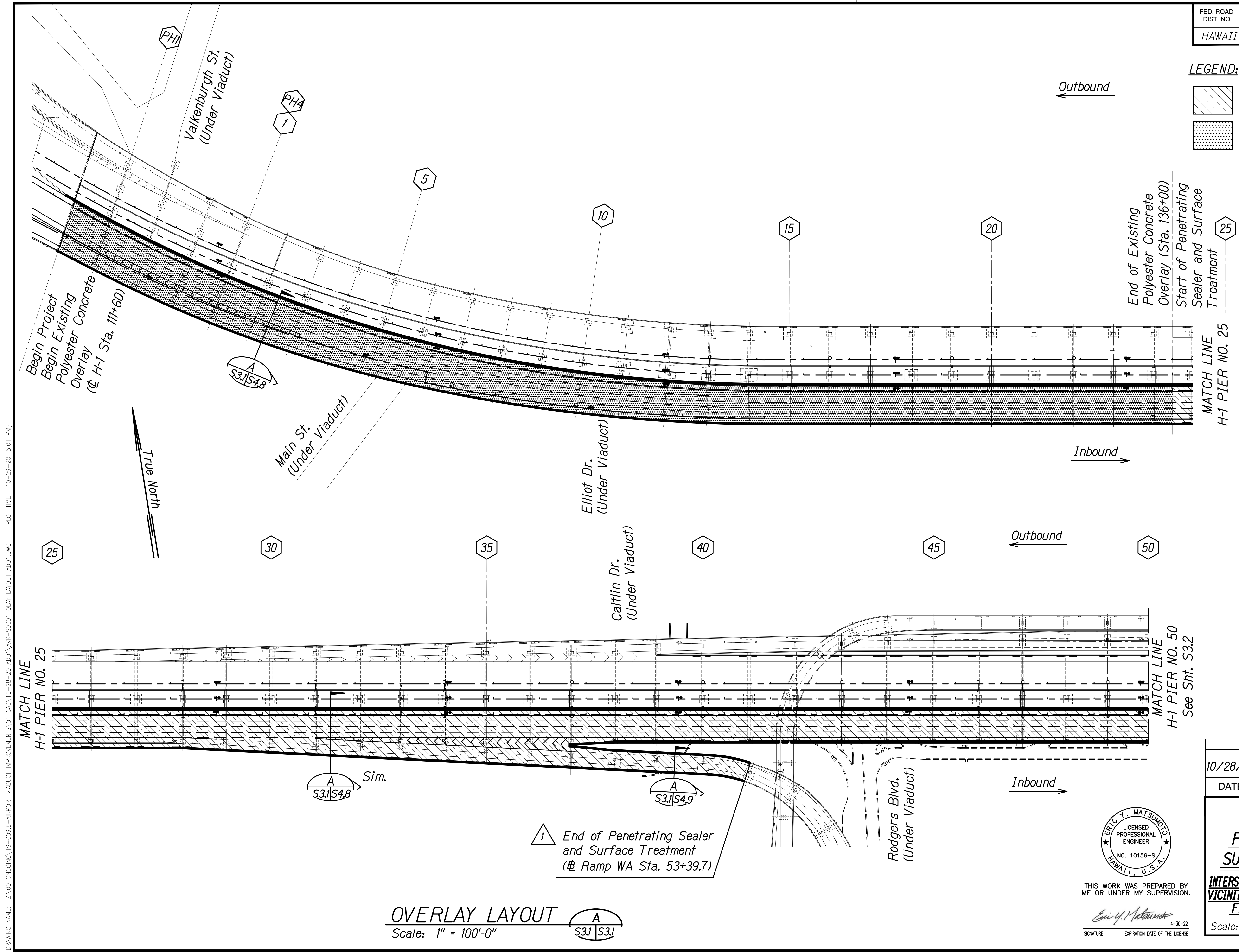
Penetrating Sealer and Surface Treatment



Existing Polyester Concrete Overlay

Note:

Surface Treatment shall be applied over Penetrating Sealer.

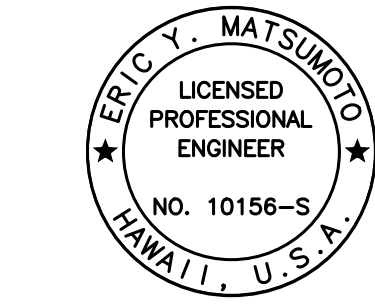


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.1.AVR-S0301 OLAY LAYOUT ADD.1.DWG PLOT TIME: 10-29-20, 5:01 PM

OVERLAY LAYOUT
Scale: 1" = 100'-0"

A
S31/S31



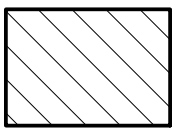
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
EXPIRATION DATE OF THE LICENSE

10/28/20	1	Add. 1 - Revised Notes
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PENETRATING SEALER AND SURFACE TREATMENT LAYOUT 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: As Noted Date: Aug. 2020 SHEET No. S31 OF 3 SHEETS ADD. 198		

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 199	214

LEGEND:



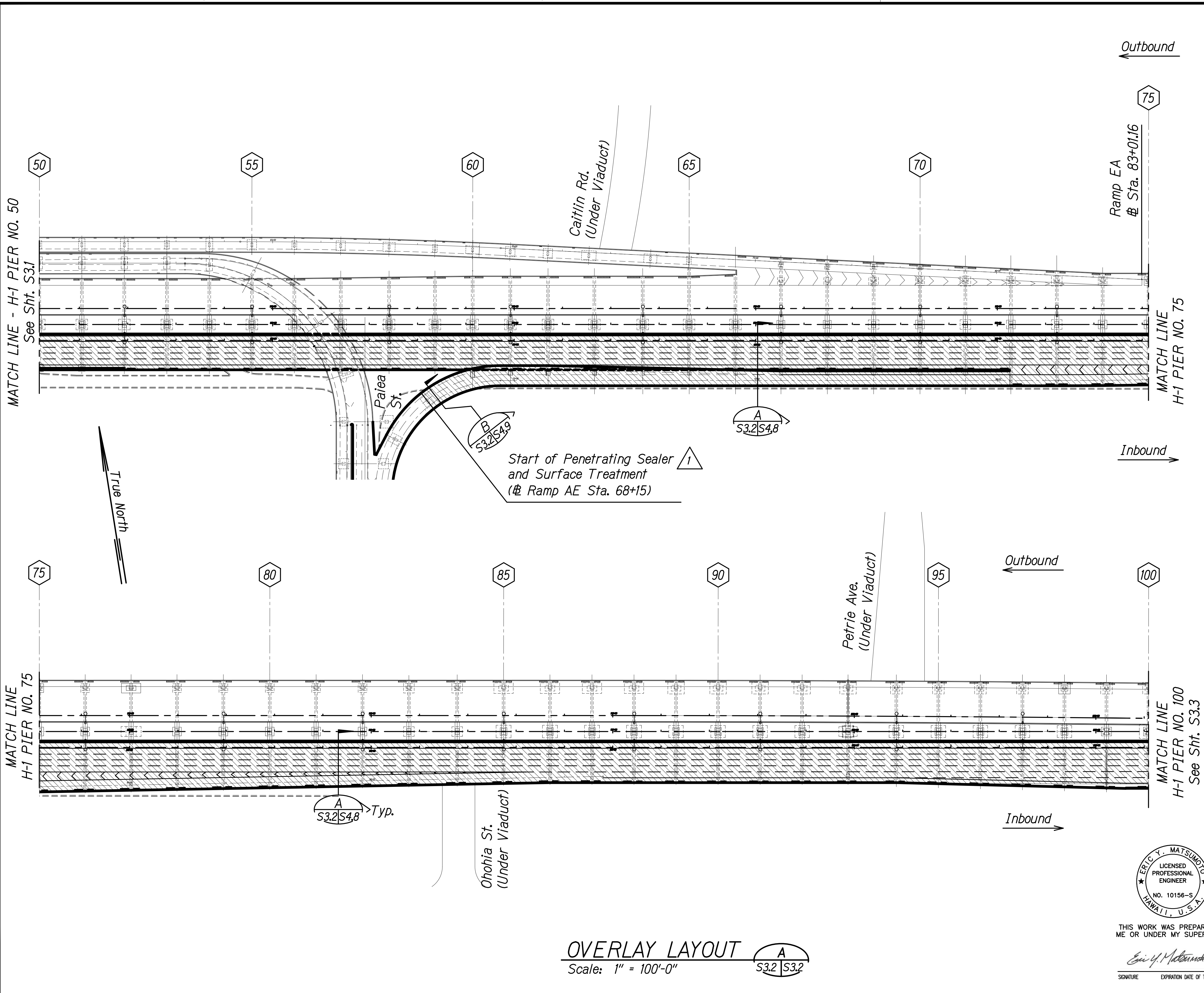
Penetrating Sealer and Surface Treatment

Note:

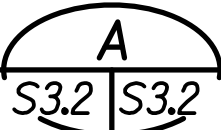
Surface Treatment shall be applied over Penetrating Sealer.

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\AVR-S0301 OLAY LAYOUT ADD1.DWG PLOT TIME: 10-29-20, 5:02 PM

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



OVERLAY LAYOUT
Scale: 1" = 100'-0"

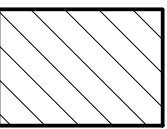


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Eric Y. Matsumoto
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

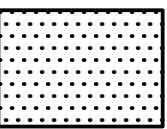
10/28/20	1 Add. 1 - Revised Notes
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PENETRATING SEALER AND SURFACE TREATMENT LAYOUT INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2 FEDERAL-AID PROJECT NO. NH-HI-1(276) Scale: As Noted Date: Aug. 2020	
SHEET No. S3.2 OF 3 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 200S-1	214

LEGEND:



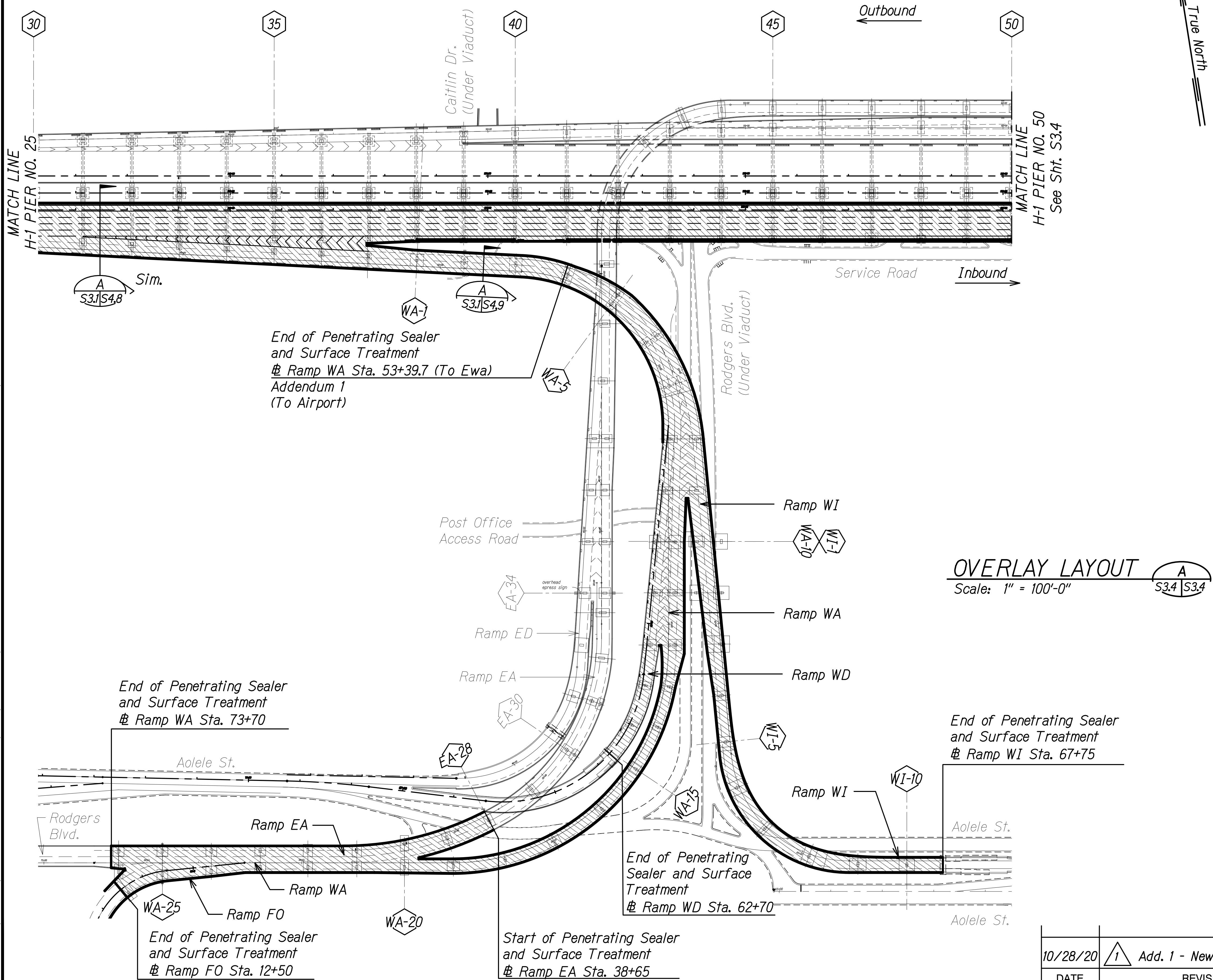
Penetrating Sealer and Surface Treatment



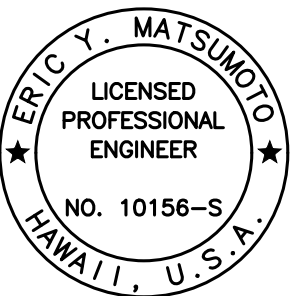
Existing Polyester Concrete Overlay

Note:

Surface Treatment shall be applied over Penetrating Sealer.



OVERLAY LAYOUT
Scale: 1" = 100'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: Eric Y. Matsumoto
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PENETRATING SEALER AND SURFACE TREATMENT LAYOUT
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: As Noted Date: Aug. 2020

SHEET No. S3.4 OF 3 SHEETS

ADD. 200S-1

10/28/20	1	ADD. 1 - New Sheet
DATE	REVISION	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 200S-2	214



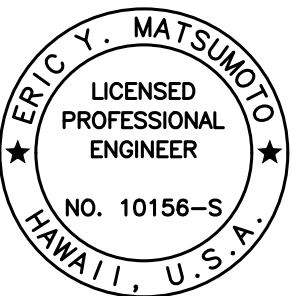
LEGEND:



Penetrating Sealer and Surface Treatment

Note:

Surface Treatment shall be applied over Penetrating Sealer.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

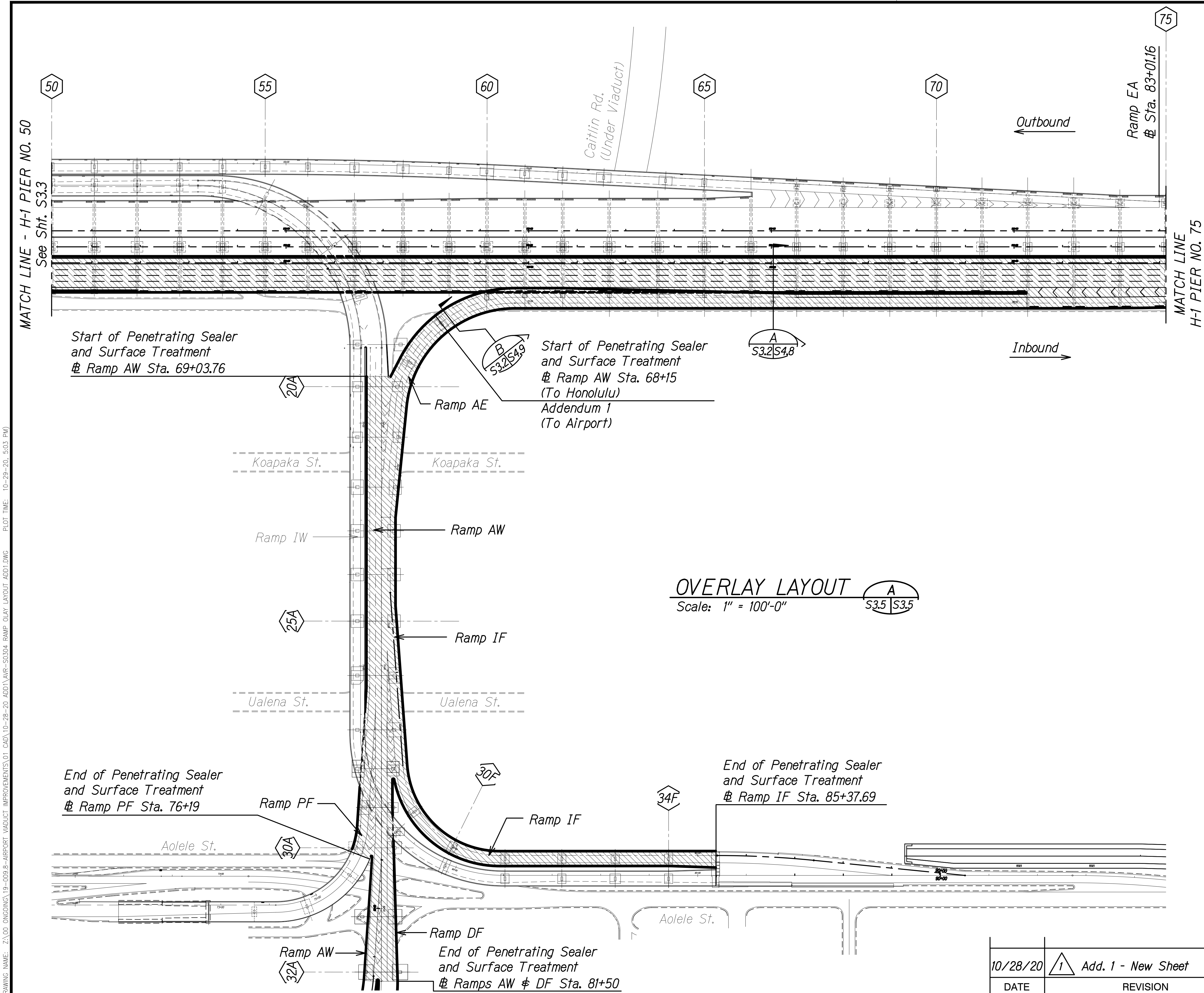
Signature: Eric Y. Matsumoto
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PENETRATING SEALER AND SURFACE TREATMENT LAYOUT
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: As Noted Date: Aug. 2020

SHEET No. S3.5 OF 3 SHEETS

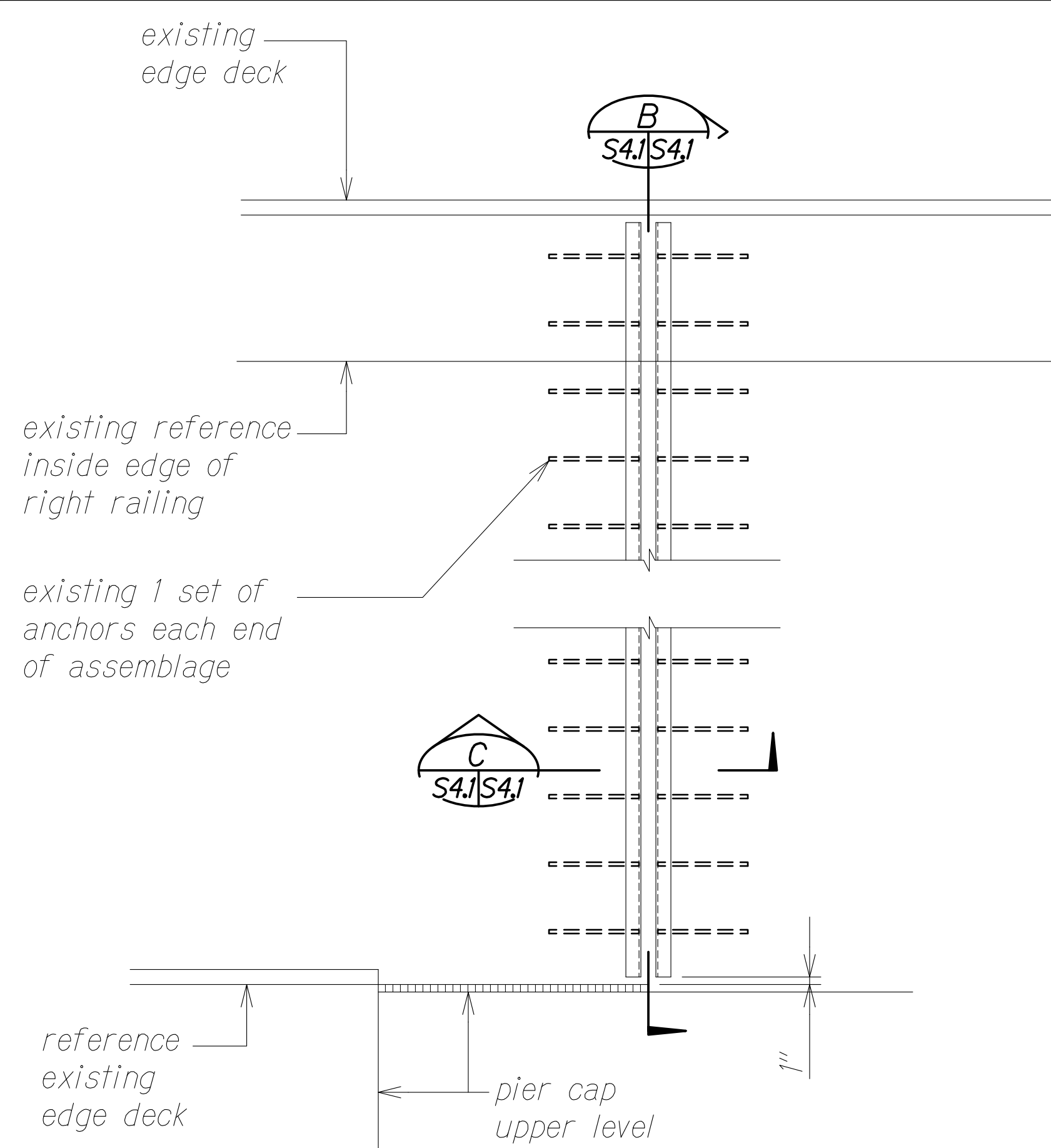
ADD. 200S-2



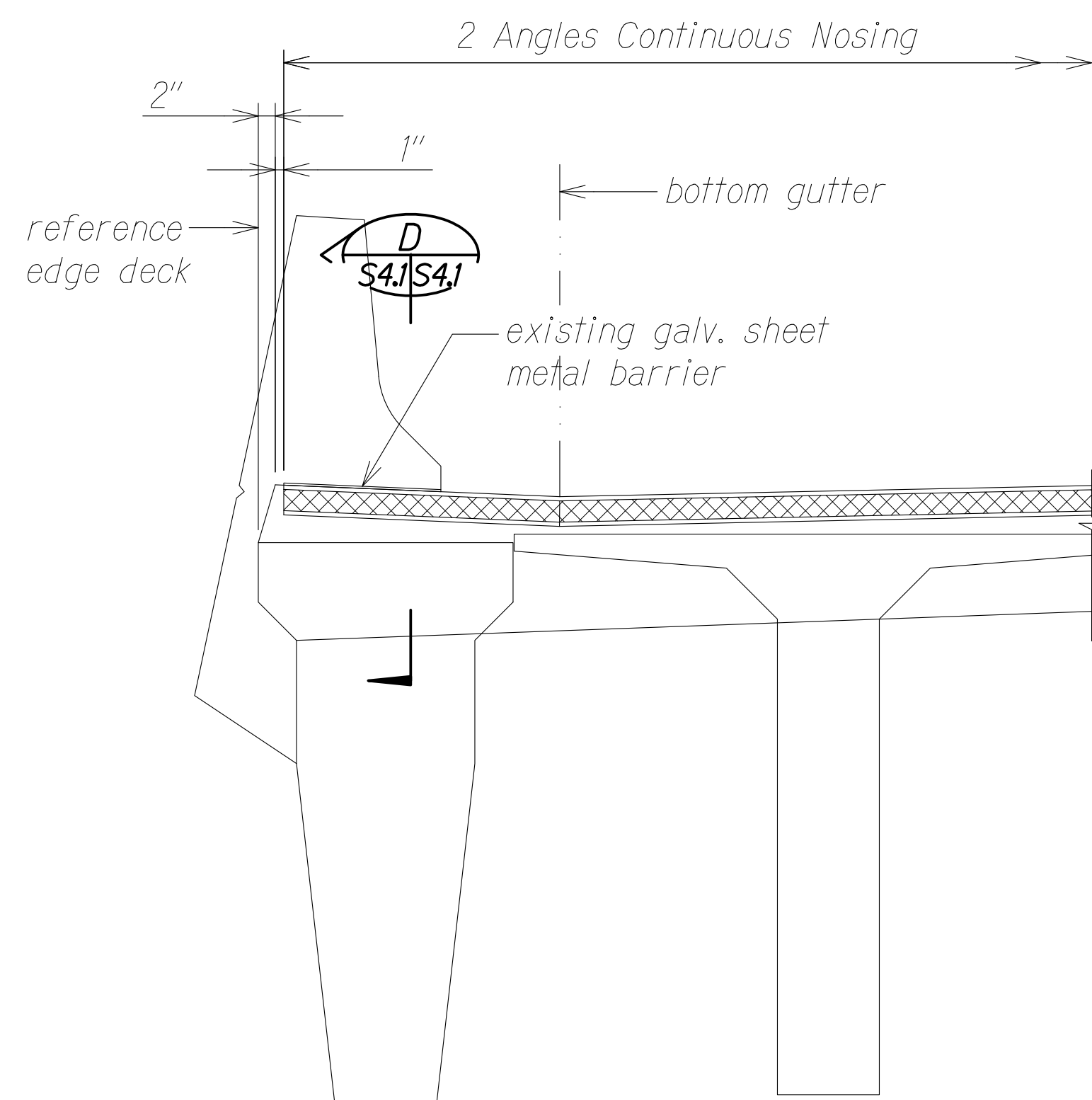
DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-50304 RAMP OLAY LAYOUT ADD1.DWG PLOT TIME: 10-29-20, 5:03 PM

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

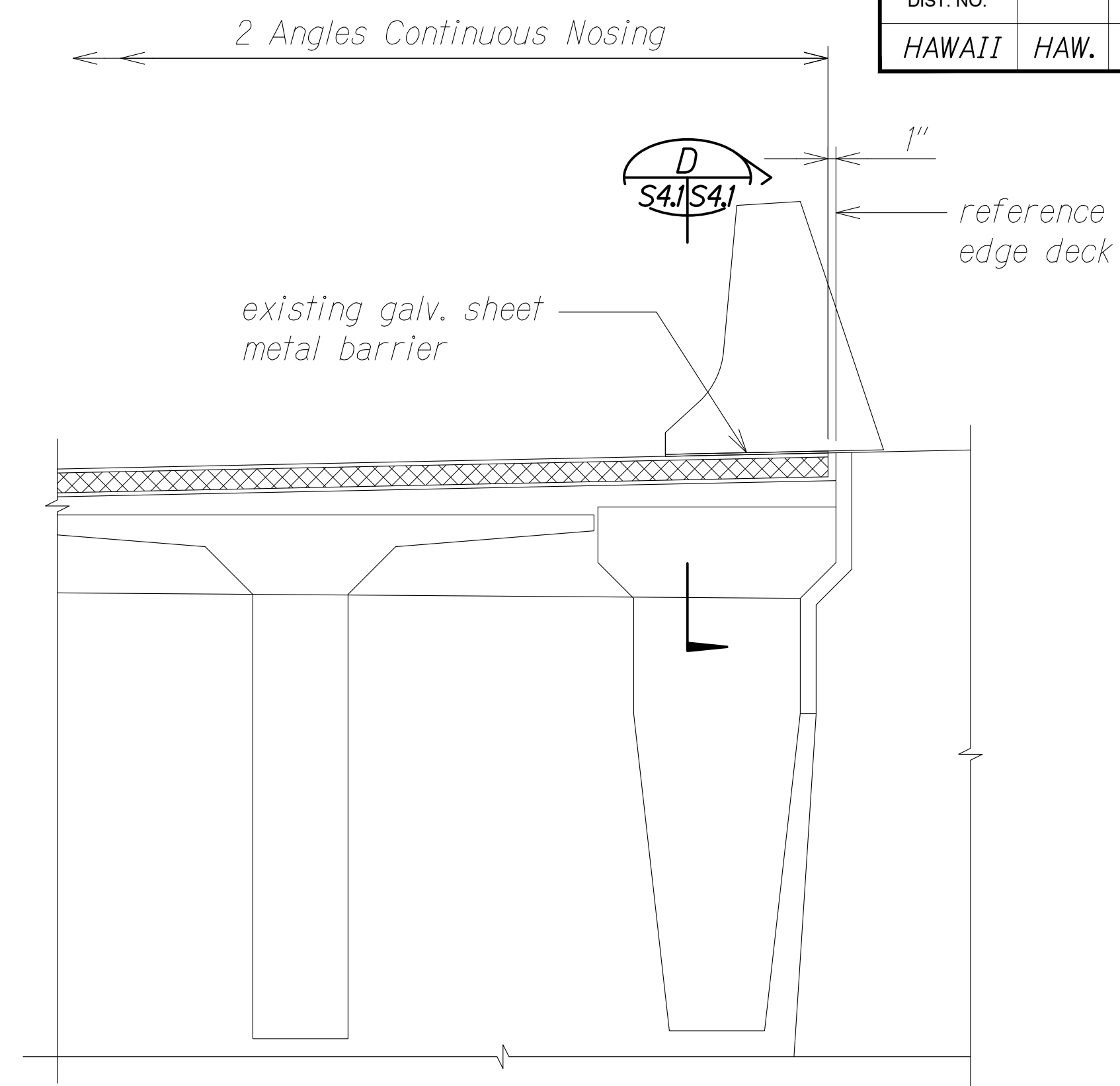
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 201	214



EXISTING TRANSVERSE DECK EXPANSION JOINT PLAN
Scale: 3/4" = 1'-0"
A
S4.1/S4.1

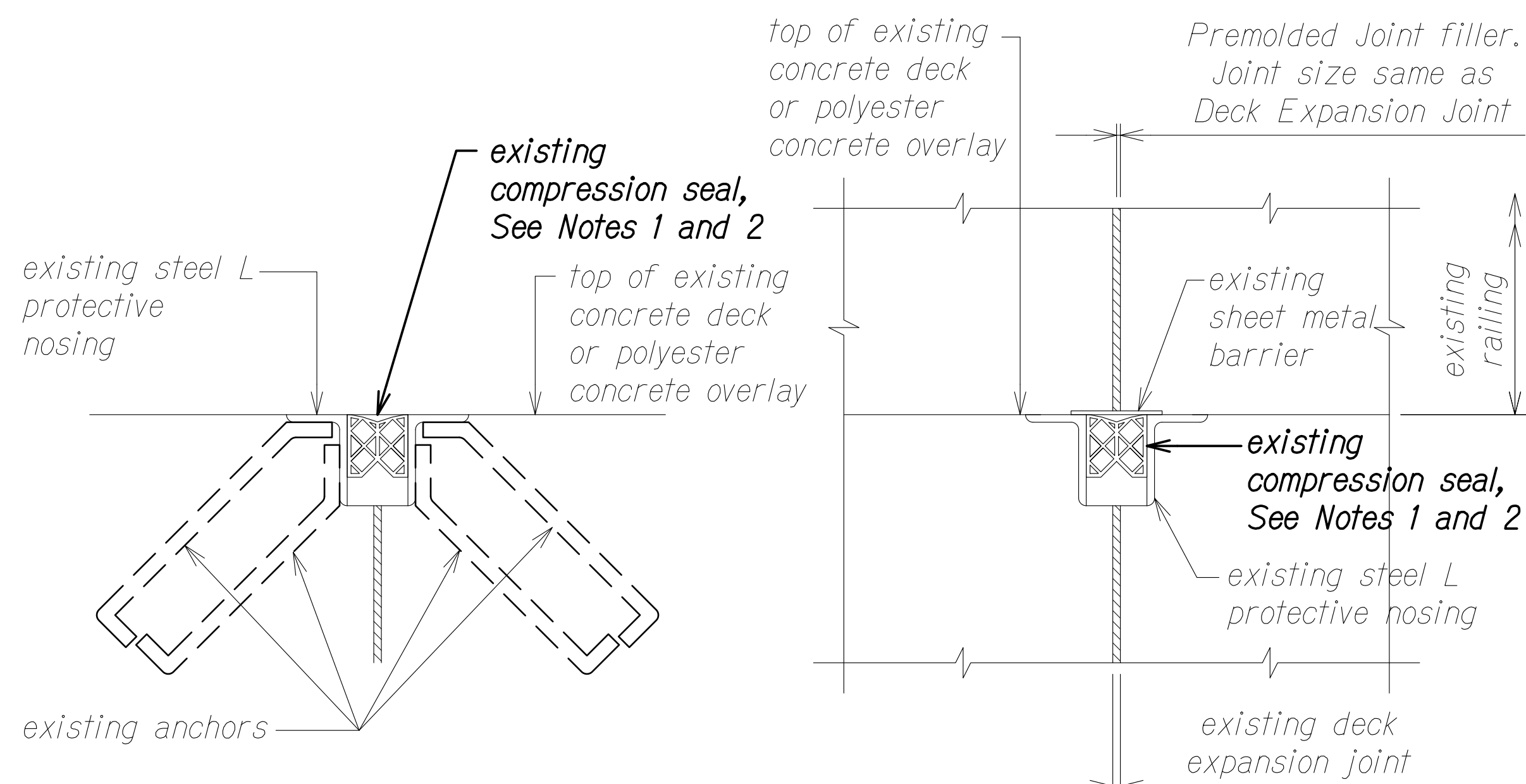


TYPICAL EXISTING MAKAI CONCRETE RAILING



TYPICAL EXISTING MAUKA CONCRETE RAILING

EXISTING INBOUND SECTION
Scale: 3/4" = 1'-0"
B
S4.1/S4.1

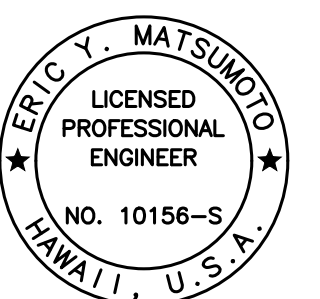


SECTION C
Scale: 3" = 1'-0"
C
S4.1/S4.1

SECTION D
Scale: 3" = 1'-0"
D
S4.1/S4.1

Notes:

1. The Contractor shall inspect and assess the condition of the existing compression seal. If existing compression seal is defective or missing, the Contractor shall remove and replace compression seal. New compression seal shall conform to Section 515 DECK EXPANSION JOINT of the Special Provisions and detail 1 sim.
2. Cracks in compression seals shall be referred to as defective compression seal.



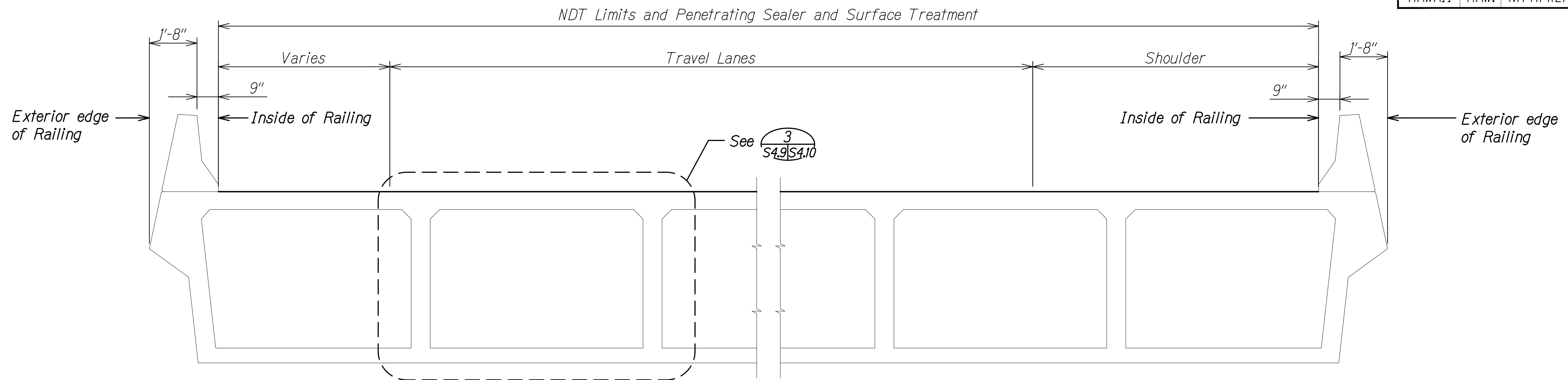
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto
4-30-22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
EXISTING EXPANSION JOINT DETAILS @ STA. 111+60 TO STA. 209+71	
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: As Noted	Date: Aug. 2020
SHEET No. S4.1 OF 13 SHEETS	

10/28/20	1	Add. 1 - Revised Sheet Title
DATE	REVISION	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(K276)	2020	ADD. 209	214

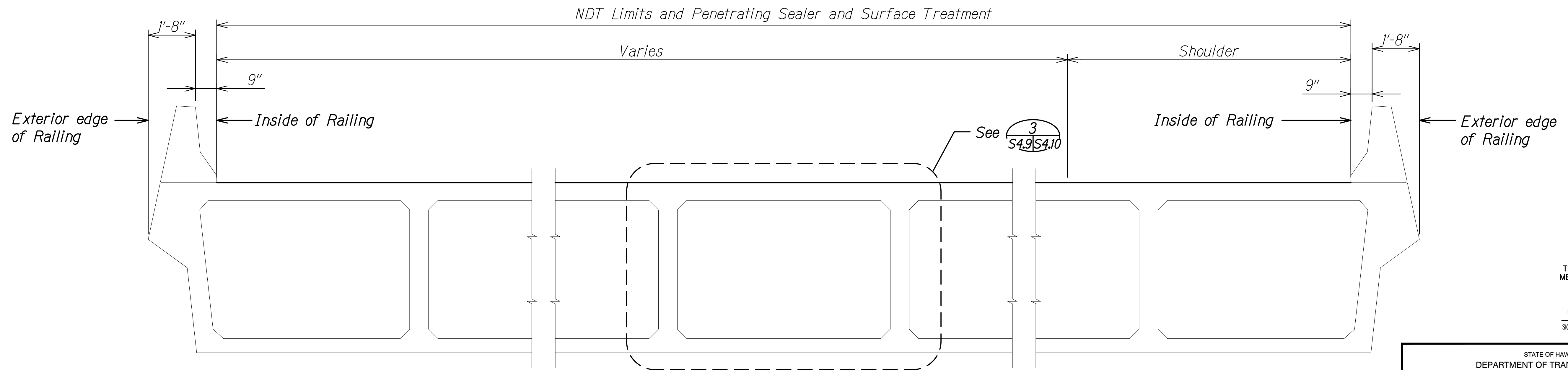


TYPICAL RAMP WA BOX GIRDER DECK SECTION

STA. 48+61 TO STA. 60+56

Scale: 1/2" = 1'-0"

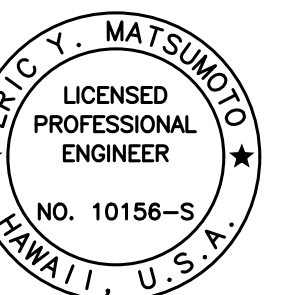
A
S3.1 S4.9



TYPICAL RAMP AE BOX GIRDER DECK SECTION

Scale: 1/2" = 1'-0"

B
S3.2 S4.9



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TYPICAL RAMPS WA AND AE
BOX GIRDER SECTIONS**
**INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(K276)**

Scale: As Noted Date: Aug. 2020

SHEET No. S4.9 OF 13 SHEETS

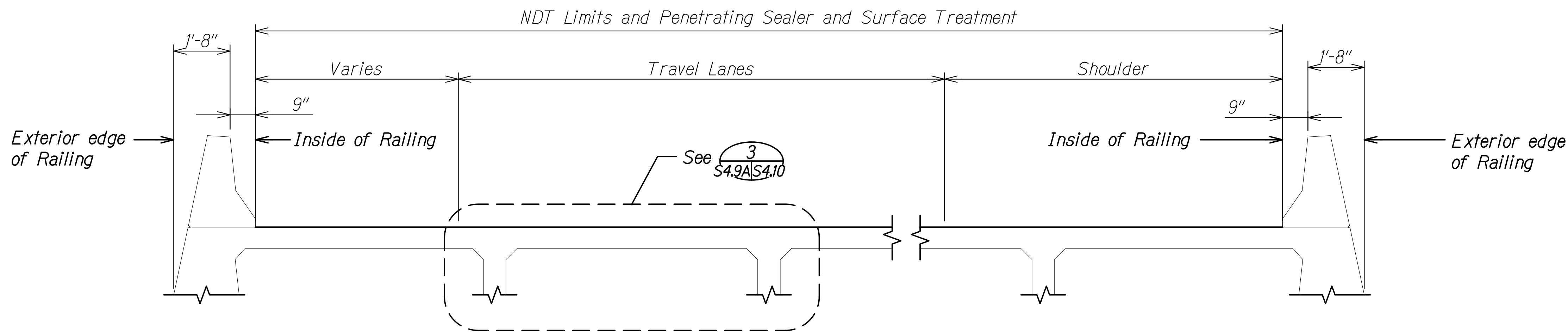
ADD. 209

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0401 EXIST JOINT ADD1.DWG PLOT TIME: 10-29-20, 5:07 PM

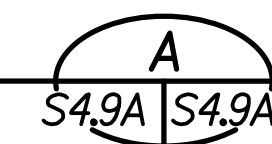
10/28/20	1	Add. 1 - Revised Station
DATE		REVISION

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 209S-1	214



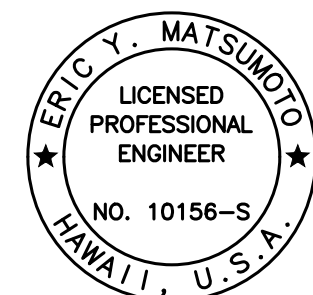
TYPICAL RAMP BOX GIRDER DECK SECTION
(RAMPS WA, WI, WD, EA, AE, IF, AW, DF AND PF SIMILAR)

Scale: 1/2" = 1'-0"



DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\AVR-S0401 EXIST JOINT ADD1.DWG PLOT TIME: 10-29-20, 5:07 PM)

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



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SIGNATURE

4-30-22
EXPIRATION DATE OF THE LICENSE

10/28/20	1	Add. 1 - New Sheet
DATE		REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TYPICAL RAMP
BOX GIRDER SECTION**

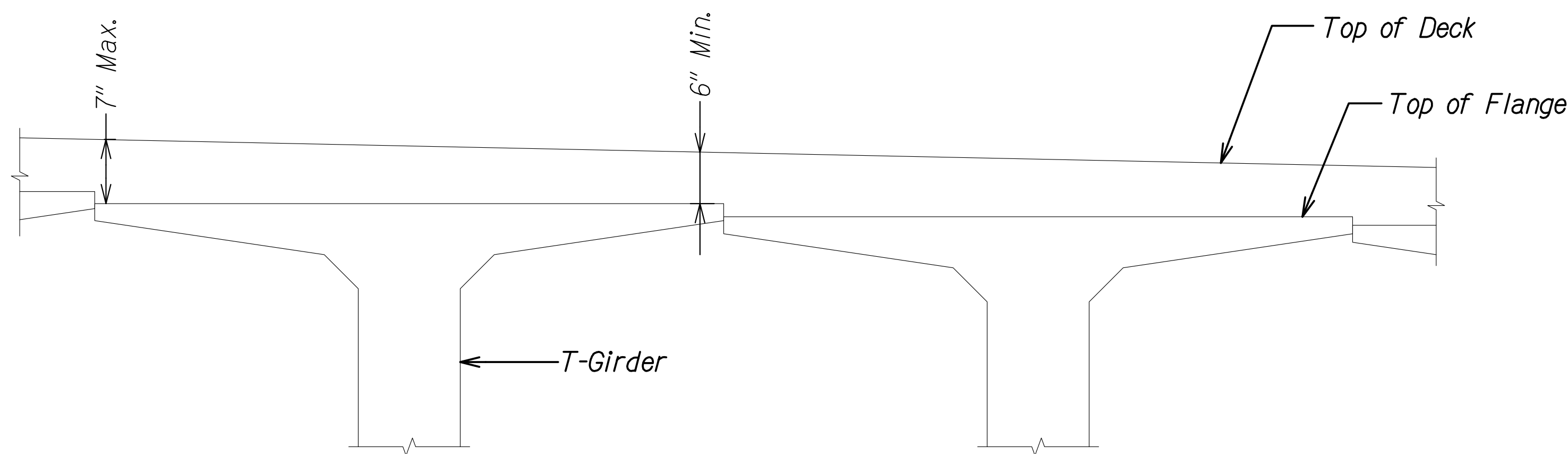
**INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2
FEDERAL-AID PROJECT NO. NH-HI-1(276)**

Scale: As Noted Date: Aug. 2020

SHEET No. S4.9A OF 13 SHEETS

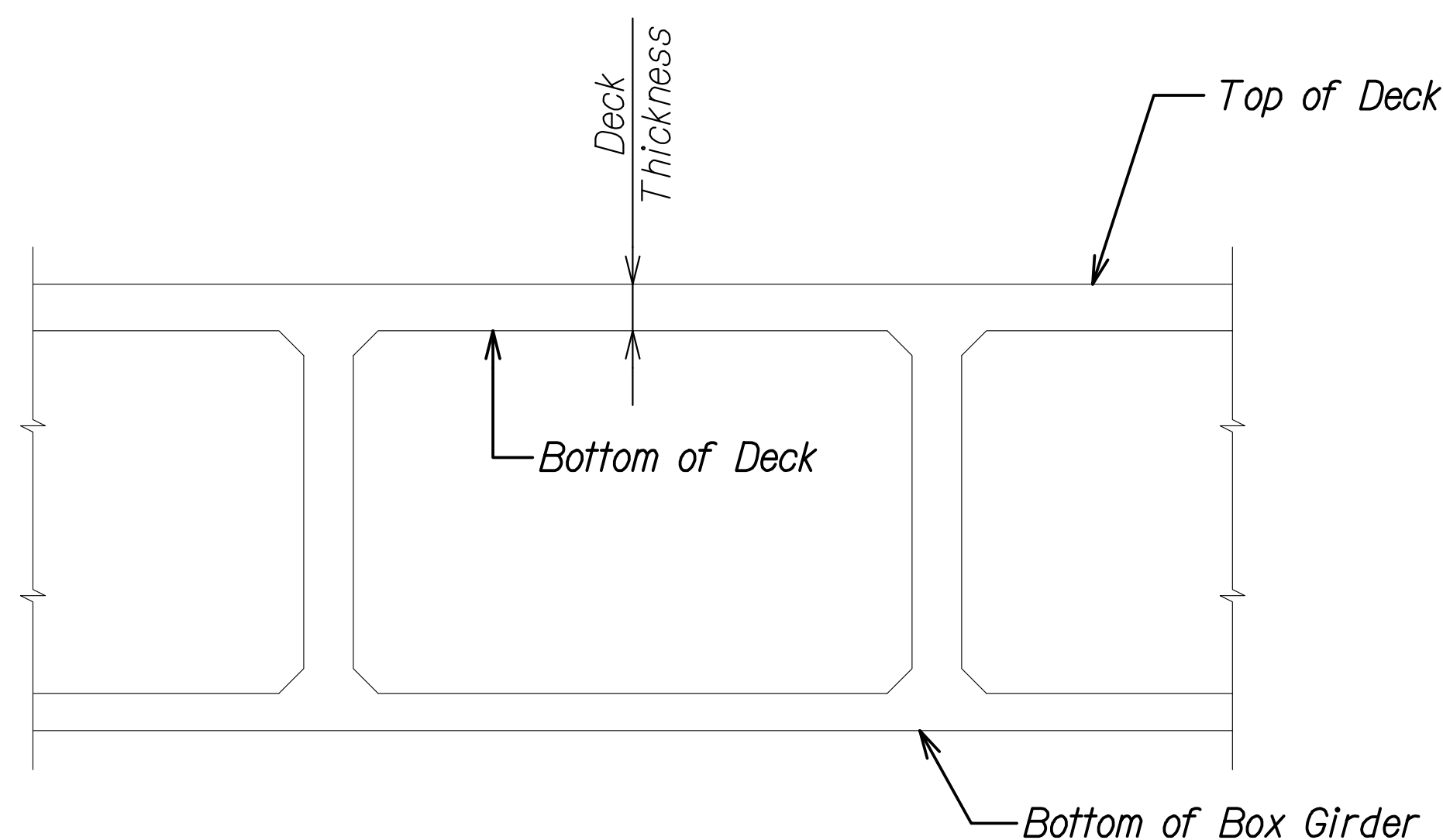
ADD. 209S-1

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 210	214



TYPICAL DECK DETAIL THICKNESS
ABOVE T-GIRDERS AT STA. 111+60 TO STA. 209+71
Scale: 1/2" = 1'-0"

1
S4.8 | S4.10

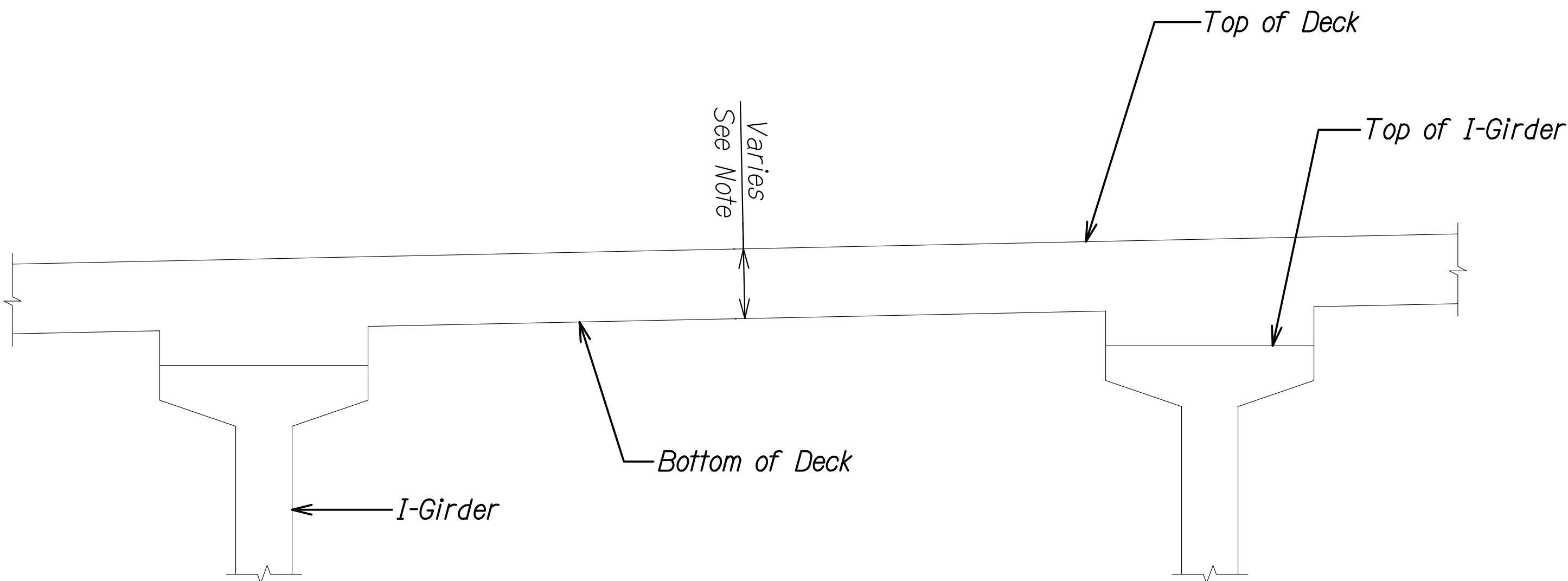


NOTE:
Refer to sheet S4.11 for deck thickness schedule.

TYPICAL BOX GIRDER DECK DETAIL
THICKNESS FOR RAMPS WA, WI AND AE
Scale: 1/2" = 1'-0"

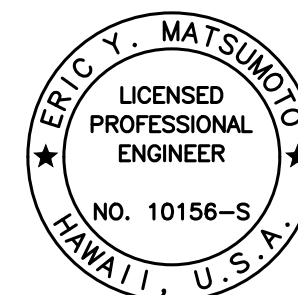
3
S4.9 | S4.10

1 S4.9A



TYPICAL DECK DETAIL THICKNESS
ABOVE I-GIRDERS AT STA. 209+71 TO STA. 230+00
Scale: 1/2" = 1'-0"

2
S4.8 | S4.10



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Eric Y. Matsumoto
SIGNATURE

4-30-22
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DECK DETAILS

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: As Noted Date: Aug. 2020

SHEET No. S4.10 OF 13 SHEETS

10/28/20	1	Add. 1 - Revised Detail Title
DATE		REVISION

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-HI-1(276)	2020	ADD. 211	214

IB DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
PH1 to PH4	6"
1 to 103	6" to 7"
K0	7"
K1	7 1/4"
K2	6 1/4"
K3	7 1/2"
K4 to K11	7 1/4"
K12	6 1/2"
K13 to K22*	6"

NOTES:

- Deck thickness are based on available as-built plans.
- Contractor is to be aware and verify deck thickness as needed.

IB RAMP WA DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
WA-1 to WA-4	7 1/2"
WA-5 to WA-12	8"
1A to 9A	7 1/2"
9A	8"
10A to 13A	7 1/2"
13A & 15A	8"

IB RAMP WI DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
1 to 4	8"
4 to 6	7 1/4"
6 to 9	7 5/8"
9 & 10	7 1/2"
11	7 1/2"

IB RAMP WD DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
1A to 3A	7 1/2"

IB RAMP EA DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
7B, 8B, 9A	7 1/2"

IB RAMP FO DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
15B	8"

IB RAMP AE DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
3C to 15C	7 1/2"

IB RAMP IF DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
25 to 28	7 1/2"
1 to 7	7 1/2"

IB RAMP AW DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
19 to 29	7 1/2"
30-32	7 1/2"

IB RAMP DF DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
31-32	7 1/2"

IB RAMP PF DECK THICKNESS SCHEDULE	
SPAN NO.	THICKNESS
1B to 4B	7 1/2"

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

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD1.AVR-S0411 DECK THKNSS SCHED ADD1.DWG PLOT TIME: 10-29-20, 5:09 PM

10/28/20	1	Add. 1 - Revised and Added Tables
DATE		REVISION

ERIC Y. MATSUMOTO

LICENSED PROFESSIONAL ENGINEER

NO. 10156-S

HAWAII, U.S.A.

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Eric Y. Matsumoto

SIGNATURE

4-30-22

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

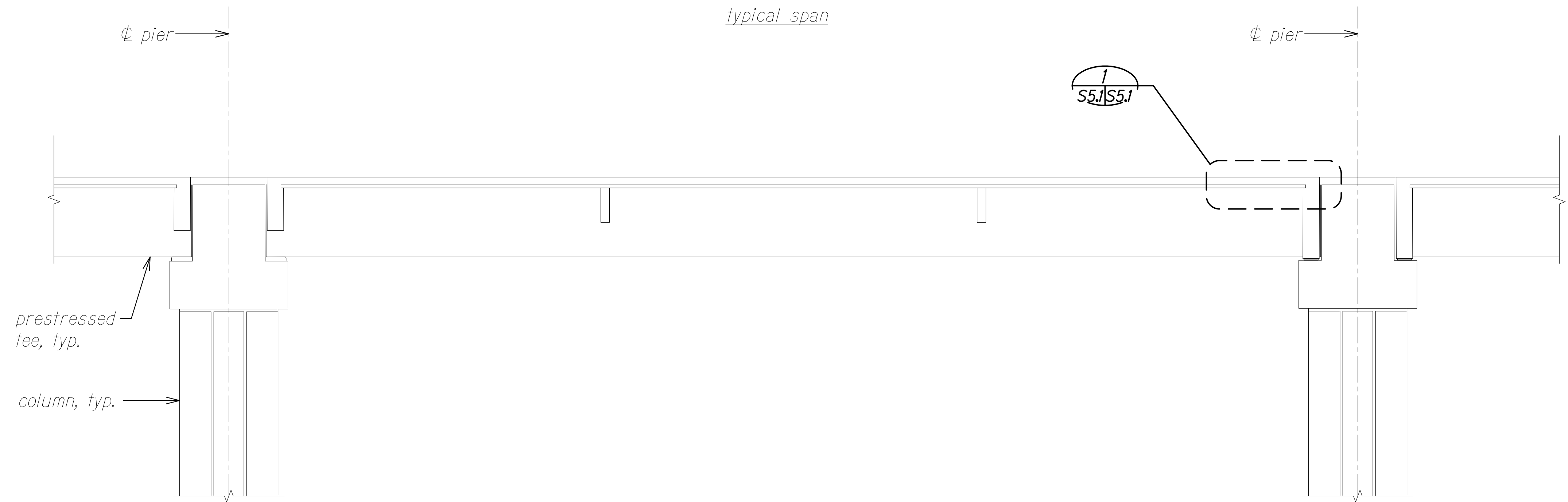
DECK THICKNESS SCHEDULE

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

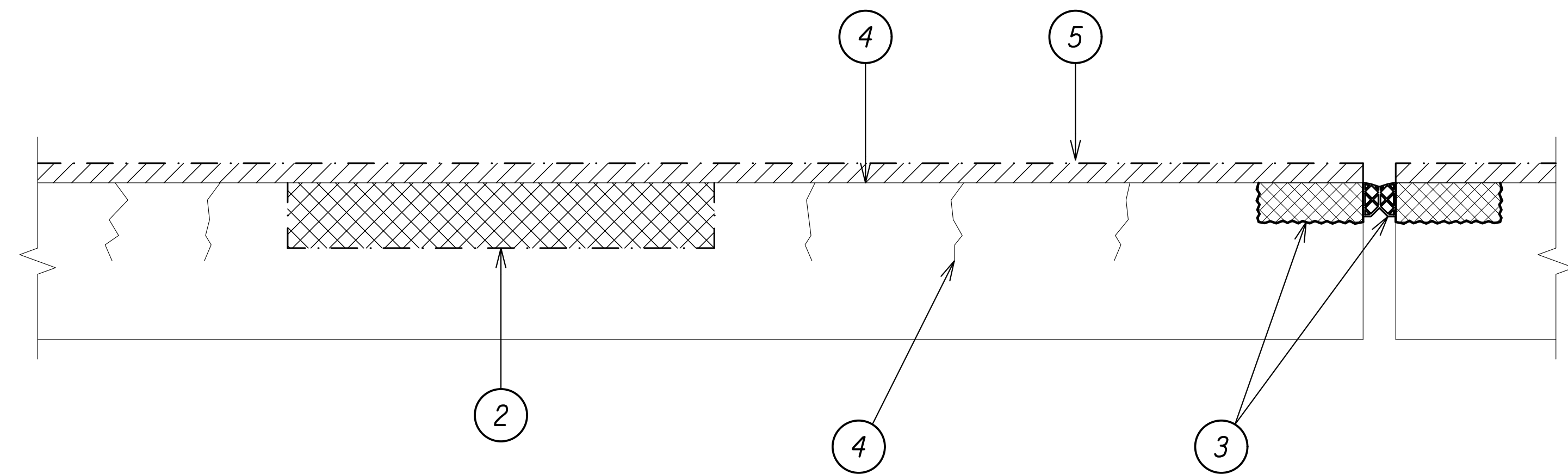
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SHEET No. S411 OF 13 SHEETS

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



TYPICAL LONGITUDINAL SECTION
Scale: 3/16" = 1'-0"
A
S5.1/S5.1



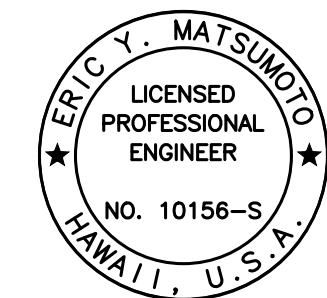
DETAIL
Scale: 3" = 1'-0"
1
S5.1/S5.1

Construction Sequence:

- 1 Perform Non-Destructive Testing (NDT) Deck Survey.
- 2 Remove and repair defective concrete with VESLMC - see Section 682-DEFECTIVE CONCRETE REPAIRS of the Special Provisions.
- 3 Repair damaged expansion joints.
- 4 Roughen existing concrete bridge deck and repaired areas. Apply penetrating sealer with aggregate no later than 48 hours after preping surface and according to Section 683 - PENETRATION SEALER ON BRIDGE DECKS of the Special Provisions.
- 5 Place surface treatment no later than 48 hours after application of penetrating sealer and according to Section 680 - SURFACE TREATMENT of the Special Provisions.

Legend

- Defective Concrete
- Surface Treatment



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Eric Y. Matsumoto
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

10/28/20	1 Add. 1 - Revised Notes
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION SEQUENCE

**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: As Noted Date: Aug. 2020

SHEET No. S5.1 OF 1 SHEETS