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| FED. ROAD<br>DIST. NO. | STATE | FEDERAL AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAW.  | NH-HI-1(276)             | 2020           | ADD. 159     | 214             |

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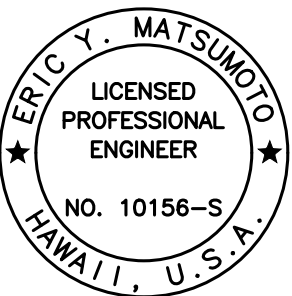
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DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\1.AVR-50001 INDEX ADD1.DWG PLOT TIME: 10-29-20, 4:22 PM

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| 10/28/20 |  Add. 1 - Revised Index |
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STATE OF HAWAII  
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**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)**

Scale: None      Date: Aug. 2020

SHEET No. *S0.1* OF 3 SHEETS



STRUCTURAL GENERAL NOTES:

|                     |       |                       |             |           |              |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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1. General Specifications:

- A. Hawaii Department of Transportation (HDOT), Standard Specifications for Road and Bridge Construction 2005, together with Special Provisions prepared for this project.

2. Materials:

- A. Very Early Strength Latex Modified Concrete (VESLMC) shall consist of the following:
- Western Materials Fastrac 246 concrete or approved equal.
  - Amine carboxylate corrosion inhibiting admixture or approved equal.
  - Western Materials ready-to-use Fastrac Polymer or approved equal.

When combined, VESLMC shall produce a rapid-setting material capable of achieving 3000 psi compressive strength within 3 hours. See section 682 - DEFECTIVE CONCRETE REPAIRS of the Special Provisions.

- B. A penetrating sealer shall be used to fill cracks on the existing bridge deck and shall rapidly cure to allow return to traffic within 3 hours. See section 683 - PENETRATING SEALER FOR BRIDGE DECKS of the special provisions.
- C. Surface treatment shall produce an impermeable layer on top of the existing bridge deck and shall rapidly cure to allow return to traffic within 3 hours. See section 680 - SURFACE TREATMENT of the special provisions.
- D. Hybrid Polymer Concrete (HPC) shall produce a rapid setting material capable of achieving 1000 psi in 3 hours. See section 678 - HYBRID POLYMER CONCRETE (HPC) and Section 682 - DEFECTIVE CONCRETE REPAIRS of the Special Provisions.

3. Reinforcement:

- A. Unless otherwise noted, the clear covering measured from the surface of the concrete to the face of any reinforcing steel bars shall be as follows:
- Deck
    - Top bars = 1 1/2"
  - All others = 2"
- B. Reinforcing steel shall conform to ASTM A706 W, Grade 60 deformed bars unless otherwise noted.
- C. Minimum clear spacing between parallel bars shall be 1 1/2 times the maximum size of the coarse aggregate or 1 1/2 inches, whichever is greater, except when bundled.
- D. Reinforcing bars shall be placed and installed in accordance with the CRSI Manual of Standard Practice and CRSI Placing Reinforcing Bars, unless otherwise noted.

3. Reinforcement (Cont.):

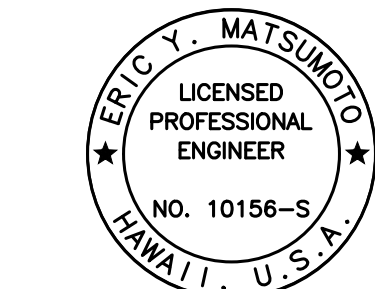
- E. Existing reinforcing shall not be damaged during demolition work, unless otherwise permitted.
- F. Reinforcing bars shall be securely tied at all intersections and lap splices except where the spacing of the intersections is less than 12 inches in each direction, in which case alternate intersections shall be tied.
- G. Unless otherwise noted, reinforcing splices shall be staggered. Minimum distance between staggered lap splice shall be equal to the length required for the lap splice. Number of bars spliced at sections normal to axis of member shall not exceed 50 percent of the total main reinforcing in the member.
- H. Minimum lap splice length for steel reinforcing shall be 40 bar diameters or 2'-0", whichever is greater, unless otherwise noted. Increase lap length by 1.3 for bars having more than 12" of fresh concrete below bars.

4. General Construction Notes:

- A. The Contractor shall verify all dimensions and site conditions and shall report any discrepancies in writing to the Engineer before commencing work or ordering materials.
- B. The Contractor shall verify all site conditions and not rely upon these plans for existing viaduct azimuths, stream channel locations, roads, roadway gutters, curbs and sidewalks, etc. Conditions may differ from those shown.
- C. The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing and new structures from damage due to construction. Repairing any damage shall be at the Contractor's own expenses, to the satisfaction of the Engineer.
- D. Unless otherwise noted, all vertical dimensions are measured plumb.
- E. Unless otherwise noted, all exposed concrete surfaces shall be chamfered 3/4" x 3/4".
- F. The Contractor shall conduct a Non-Destructive Testing (NDT) deck survey on the Inbound, Outbound and Ramp concrete decks.
- G. If the Contractor removes more than 50% depth of the existing concrete bridge deck, then the Contractor will be responsible for performing a full depth repair upon approval of the Engineer at no increase in contract time and price. Contractor shall provide full depth repair details and traffic control for approval.
- H. All repair work shown on Contract Drawings is subject to change based on the Non-Destructive Testing (NDT) deck survey results and the Engineer determination.
- I. Construction Sequence, See Sheet S5.1.

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STRUCTURAL GENERAL NOTES

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. S02 OF 3 SHEETS

## SYMBOLS AND ABBREVIATIONS



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

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*Eric Y. Matsumoto*

4-30-22

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| 10/28/20 |  Add. 1 - Added Abbreviation |
| DATE     | REVISION                                                                                                          |

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## *SYMBOLS AND ABBREVIATIONS*

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

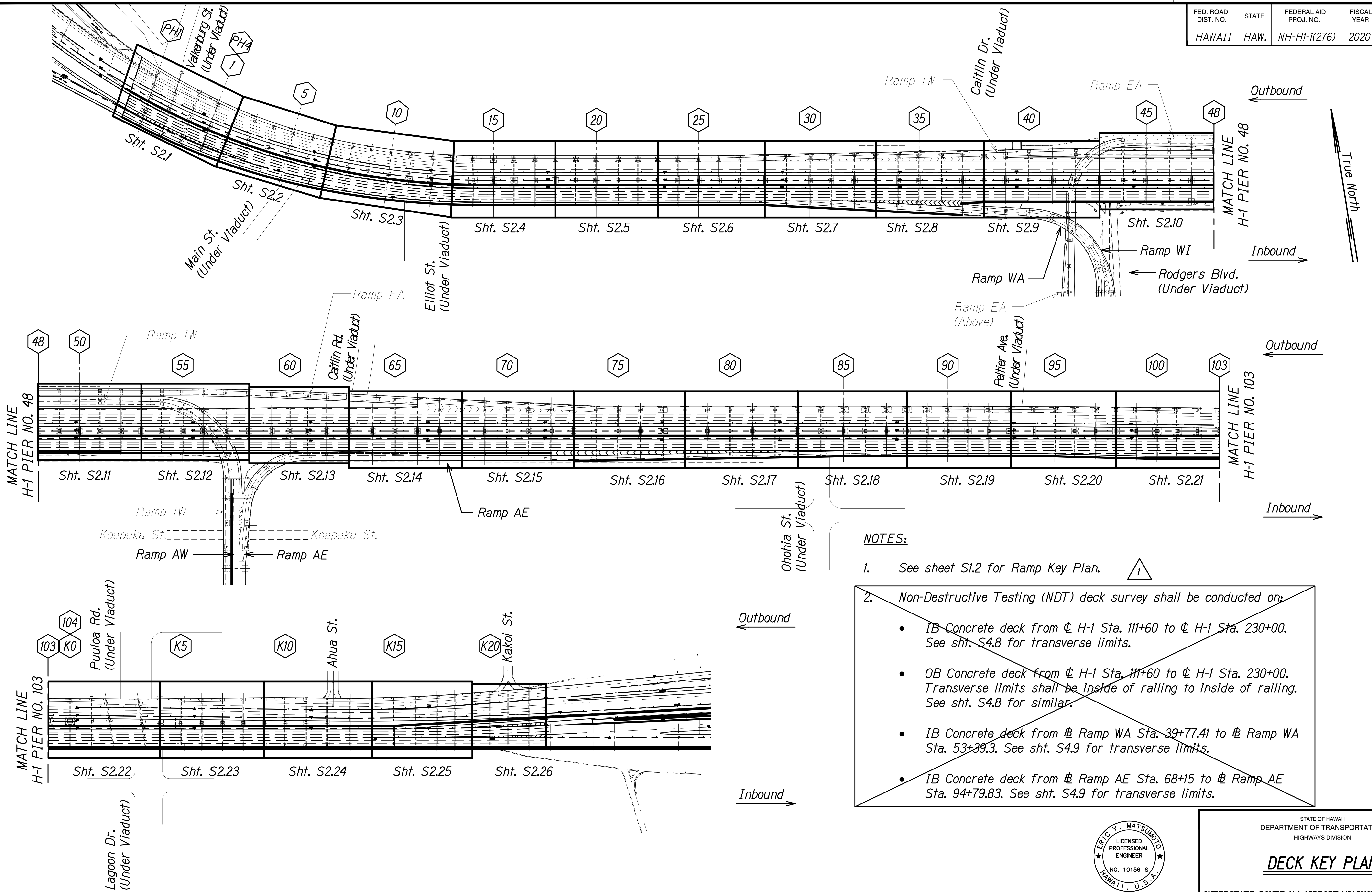
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SHEET No. *S0.3* OF *3* SHEETS

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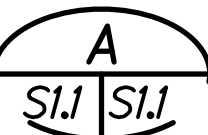
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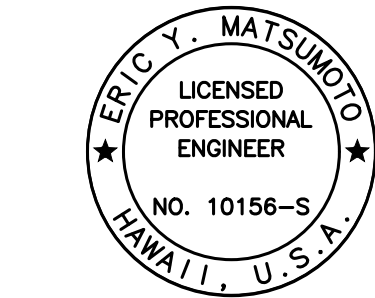
NOTES:

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

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



|          |                          |
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| 10/28/20 | 1 Add. 1 - Revised Notes |
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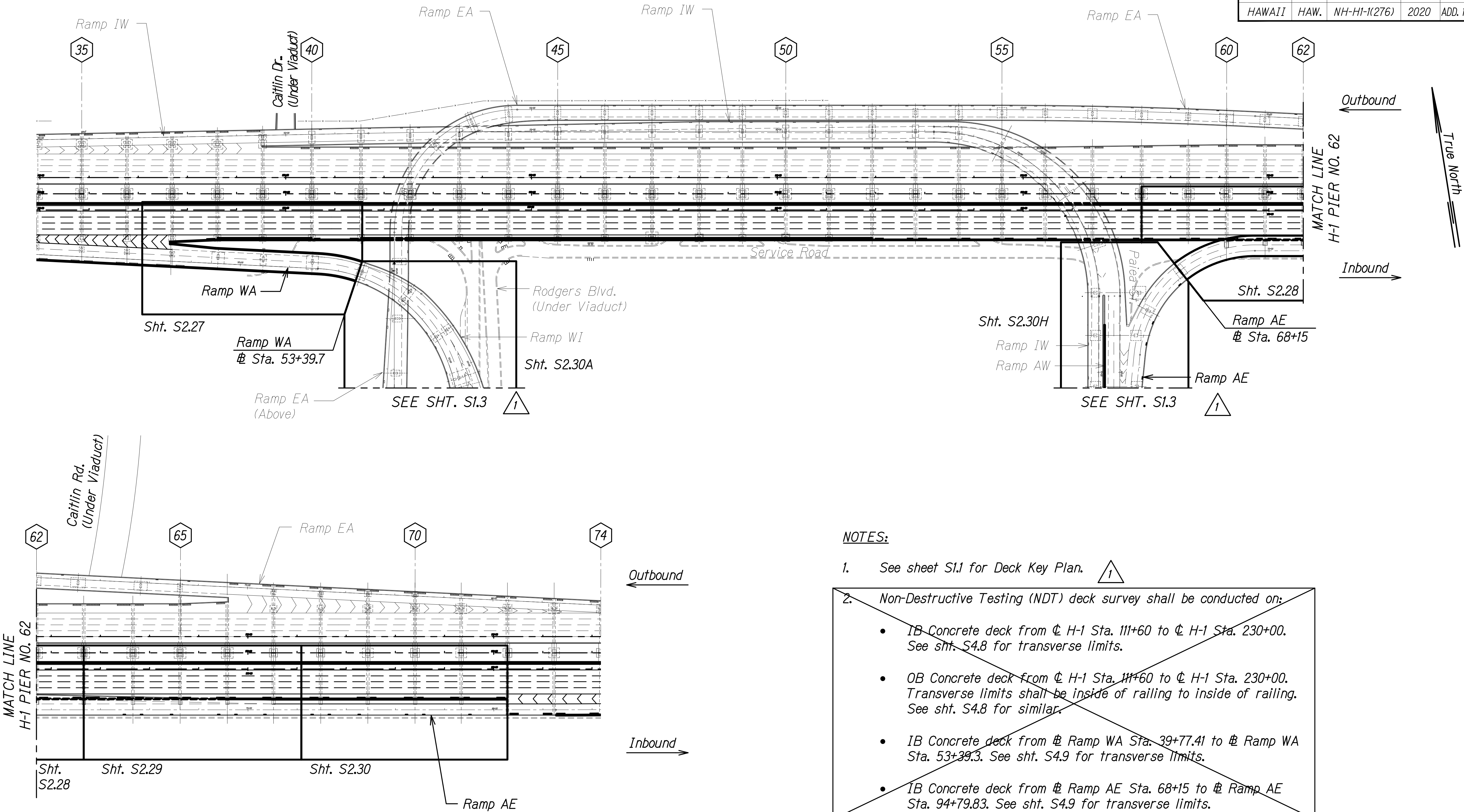
**DECK KEY PLAN**

**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

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NOTES:

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

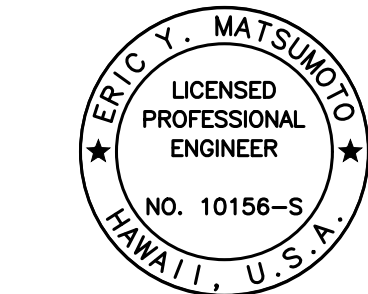
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RAMP KEY PLAN  
Scale: 1" = 100'-0"

A  
S1.2 S1.2

|          |   |                                            |
|----------|---|--------------------------------------------|
| 10/28/20 | 1 | Add. 1 - Revised Notes & Added Match Lines |
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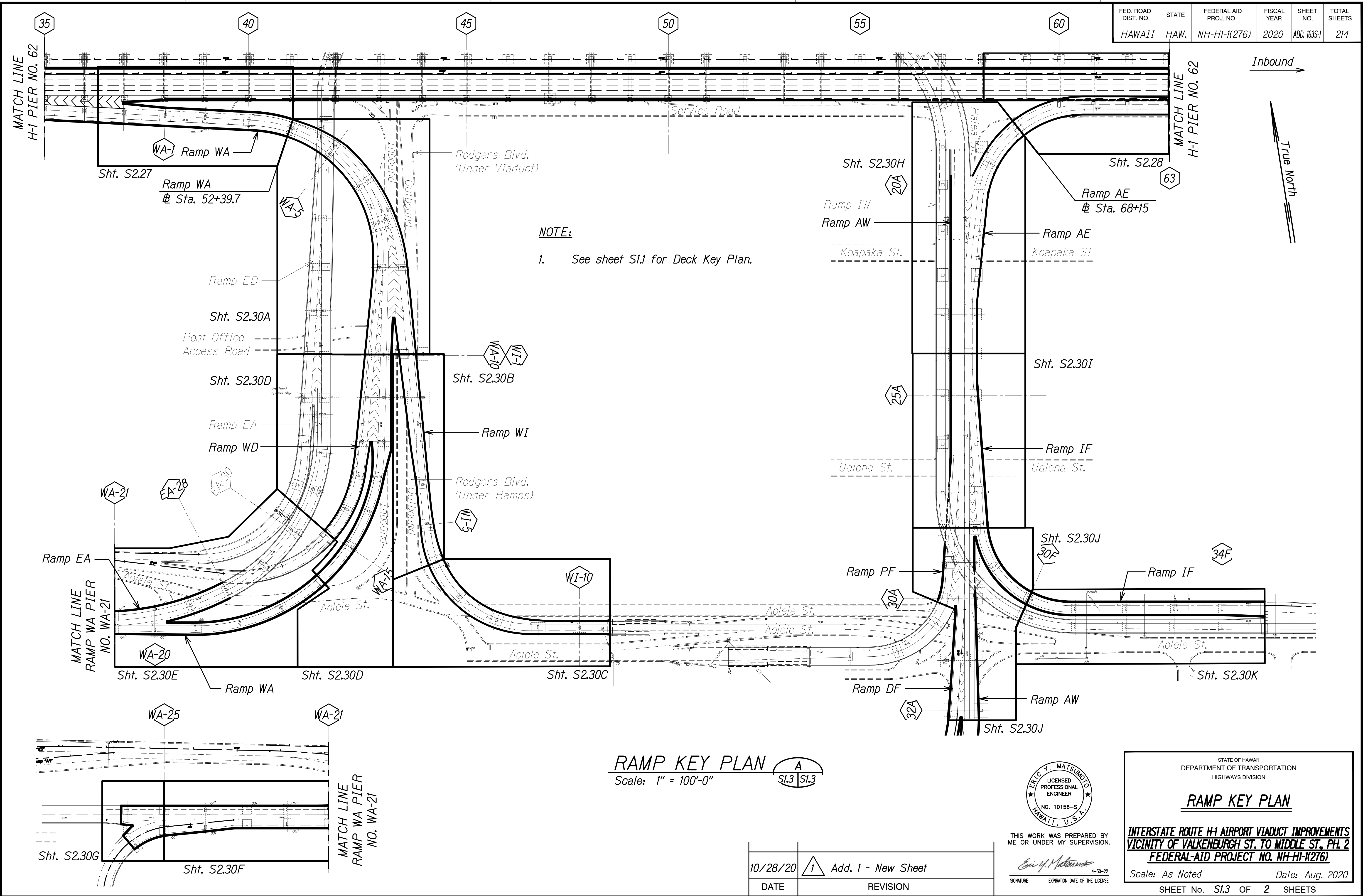
RAMP KEY PLAN

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

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SHEET No. S1.2 OF 2 SHEETS

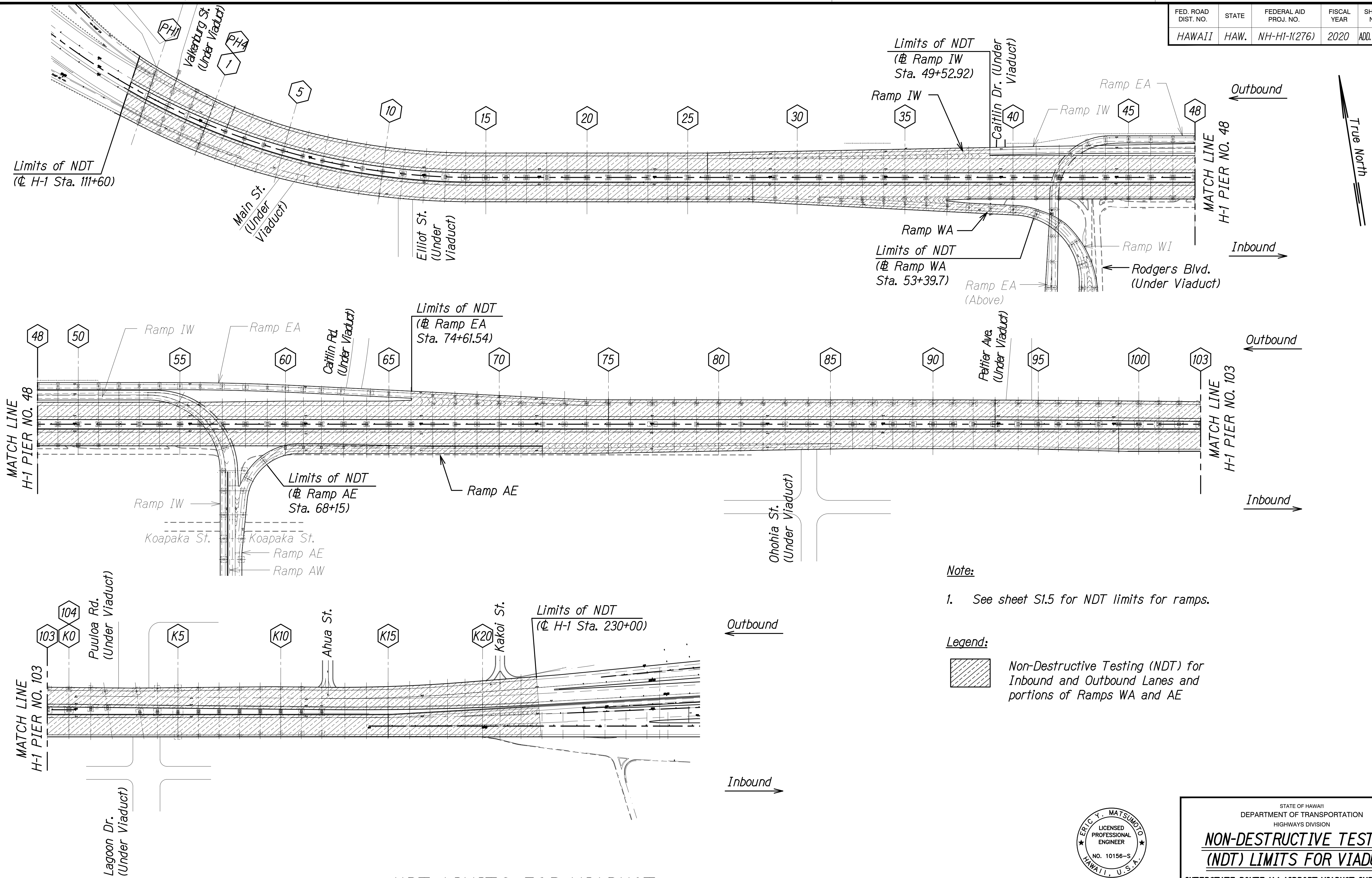
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| HAWAII              | HAW.  | NH-HI-1(K276)         | 2020        | ADD. 163S-1 | 214          |



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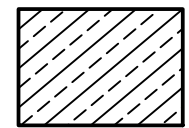
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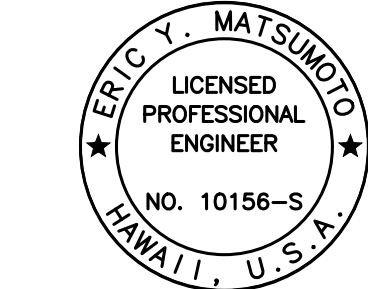
- Note:**
- See sheet S1.5 for NDT limits for ramps.

**Legend:**

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

**NDT LIMITS FOR VIADUCT** A  
 Scale: 1" = 200'-0" S1.4 S1.4

|          |                                                                                  |
|----------|----------------------------------------------------------------------------------|
| 10/28/20 | <span style="border: 1px solid black; padding: 2px;">1</span> Add. 1 - New Sheet |
| DATE     | REVISION                                                                         |



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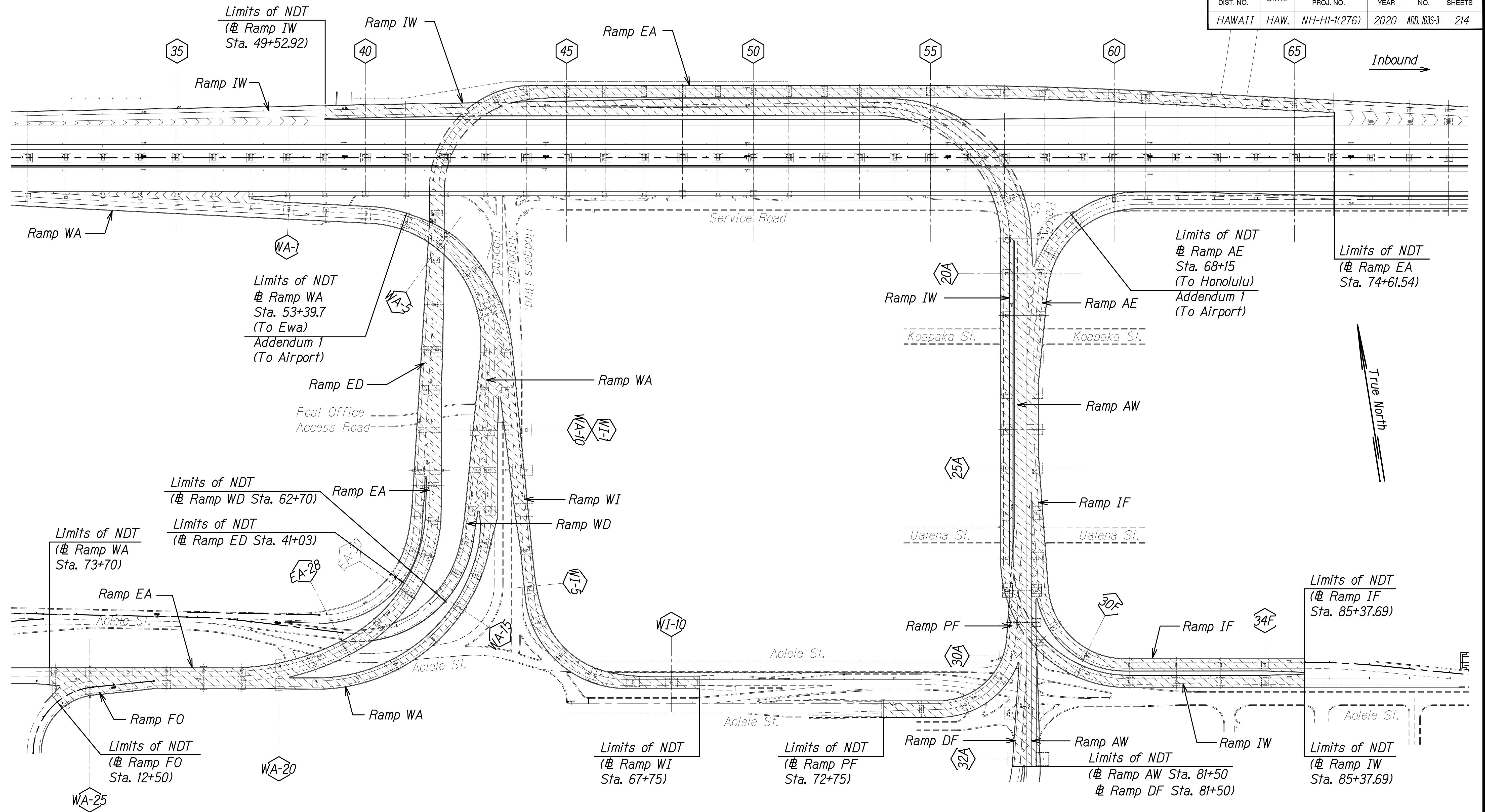
**NON-DESTRUCTIVE TESTING  
(NDT) LIMITS FOR VIADUCT**

**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

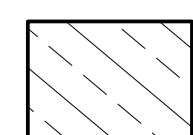
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**Note:**

- See sheet S1.4 for NDT limits for viaduct.

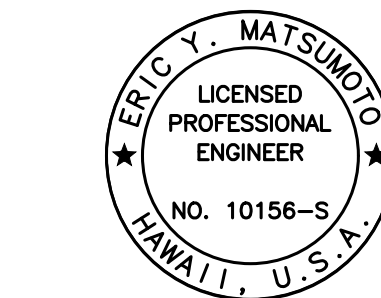
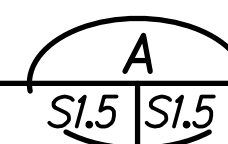
**Legend:**



Non-Destructive Testing  
(NDT) for Ramps

**NDT LIMITS FOR RAMPS**

Scale: 1" = 120'-0"



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**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**

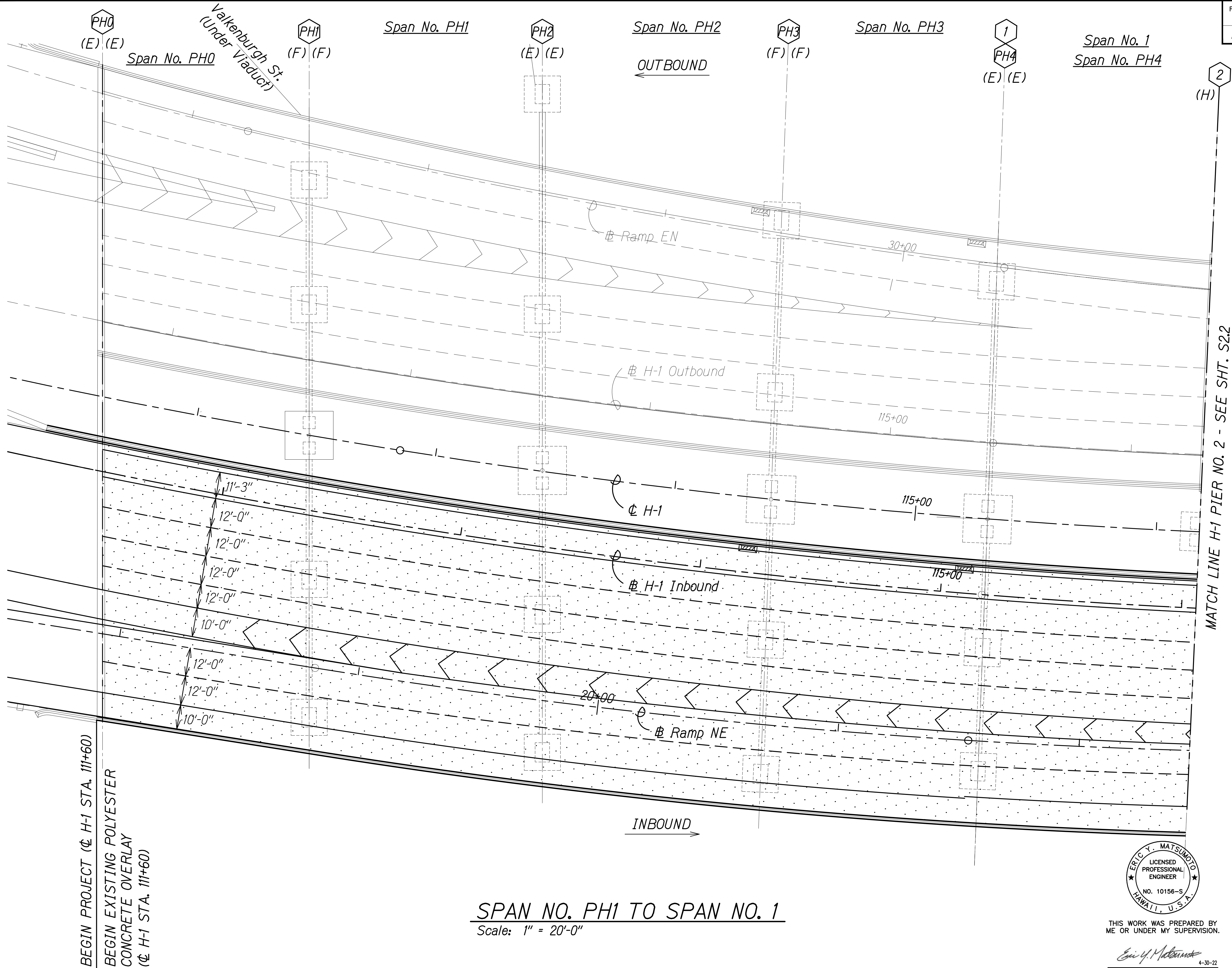
|                   |                    |
|-------------------|--------------------|
| DATE              | 10/28/20           |
| SURVEY PLOTTED BY | ADD. 1 - New Sheet |
| DRAWN BY          |                    |
| DESIGNED BY       |                    |
| NOTED BY          |                    |
| CHECKED BY        |                    |

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD.163S-3\01 NDT PLANS ADD.1.DWG PLOT TIME: 10-29-20, 4:29 PM

| 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          |

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\AVR-50201 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        |      |



Notes:

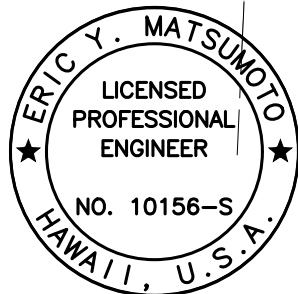
1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE EXPIRATION DATE OF THE LICENSE

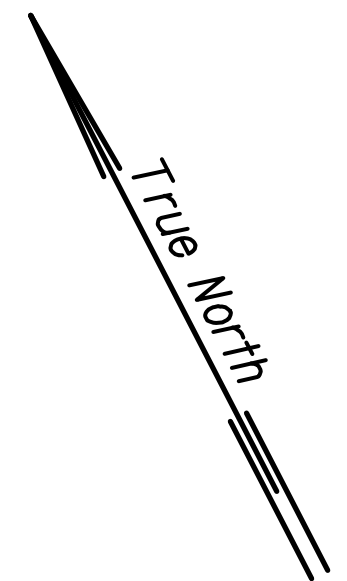
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**IB REPAIR PLAN**  
**SPAN NO. PH1 TO SPAN NO. 1**  
**INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS**  
**VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2**  
**FEDERAL-AID PROJECT NO. NH-HI-1(276)**

Scale: As Noted Date: Aug. 2020

SHEET No. S21 OF 34 SHEETS

ADD. 164

| 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

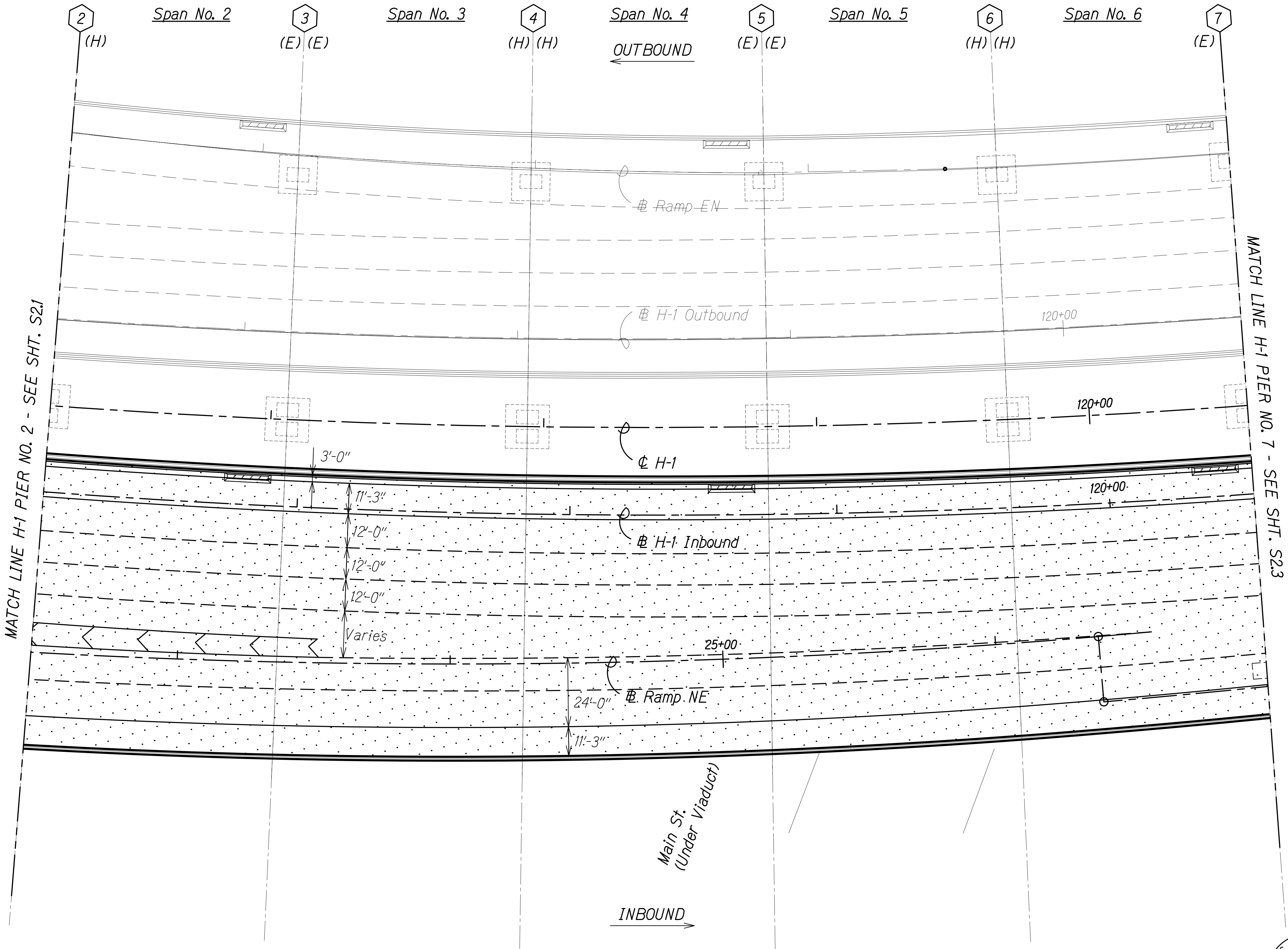
DATE REVISION

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)**

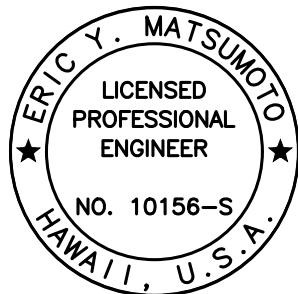
Scale: As Noted Date: Aug. 2020

SHEET No. S2.2 OF 34 SHEETS

ADD. 165



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



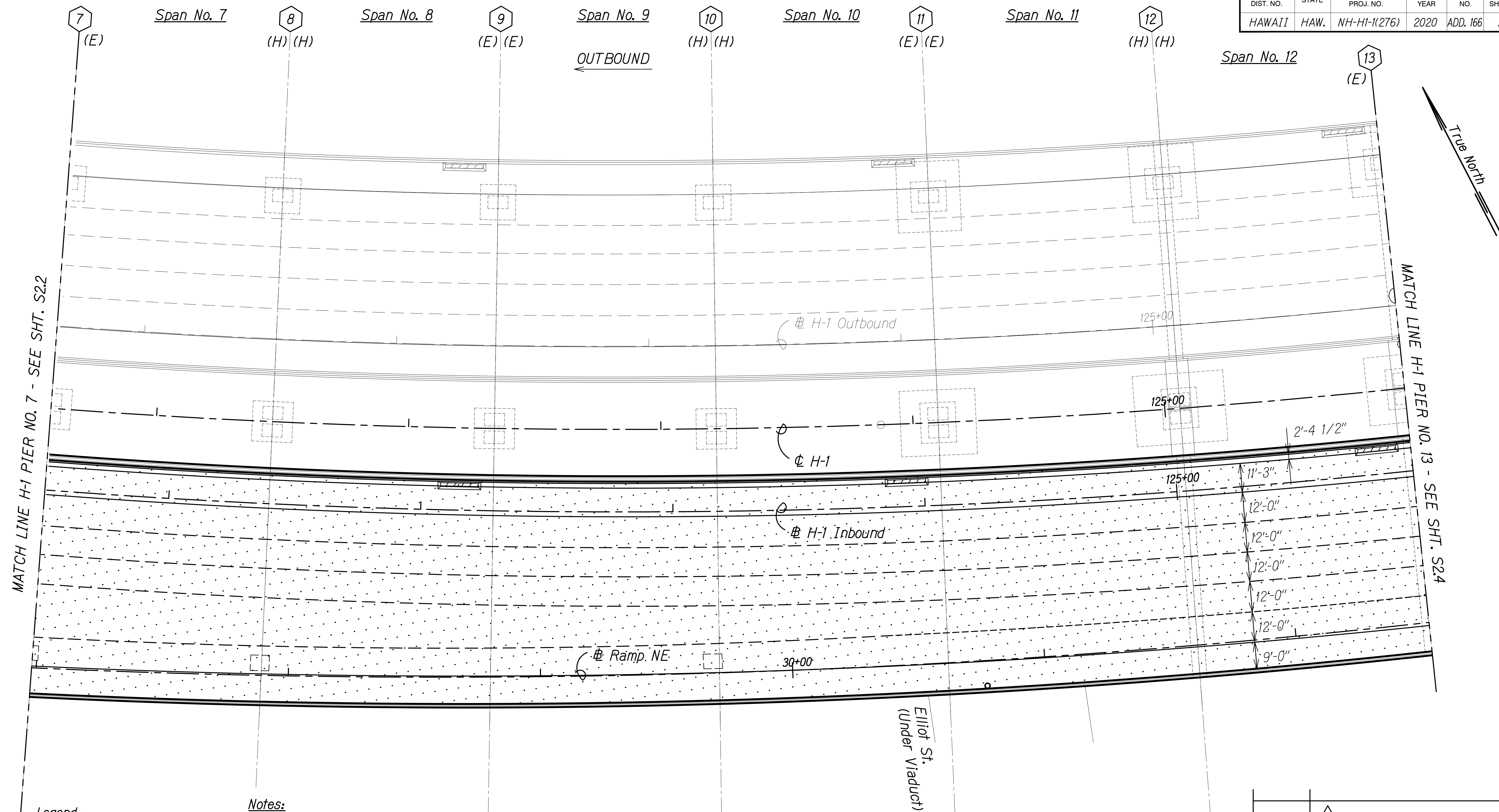
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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

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

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

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<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |                 |                       |
| <b>IB REPAIR PLAN</b>                                                |                 |                       |
| <b>SPAN NO. 7 TO SPAN NO. 12</b>                                     |                 |                       |
| <b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b>             |                 |                       |
| <b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b>              |                 |                       |
| <b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b>                          |                 |                       |
| Scale: As Noted                                                      | Date: Aug. 2020 |                       |
| SHEET No. S23 OF 34 SHEETS                                           |                 |                       |

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-HI-1(K276)         | 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(K276)**

Scale: As Noted Date: Aug. 2020

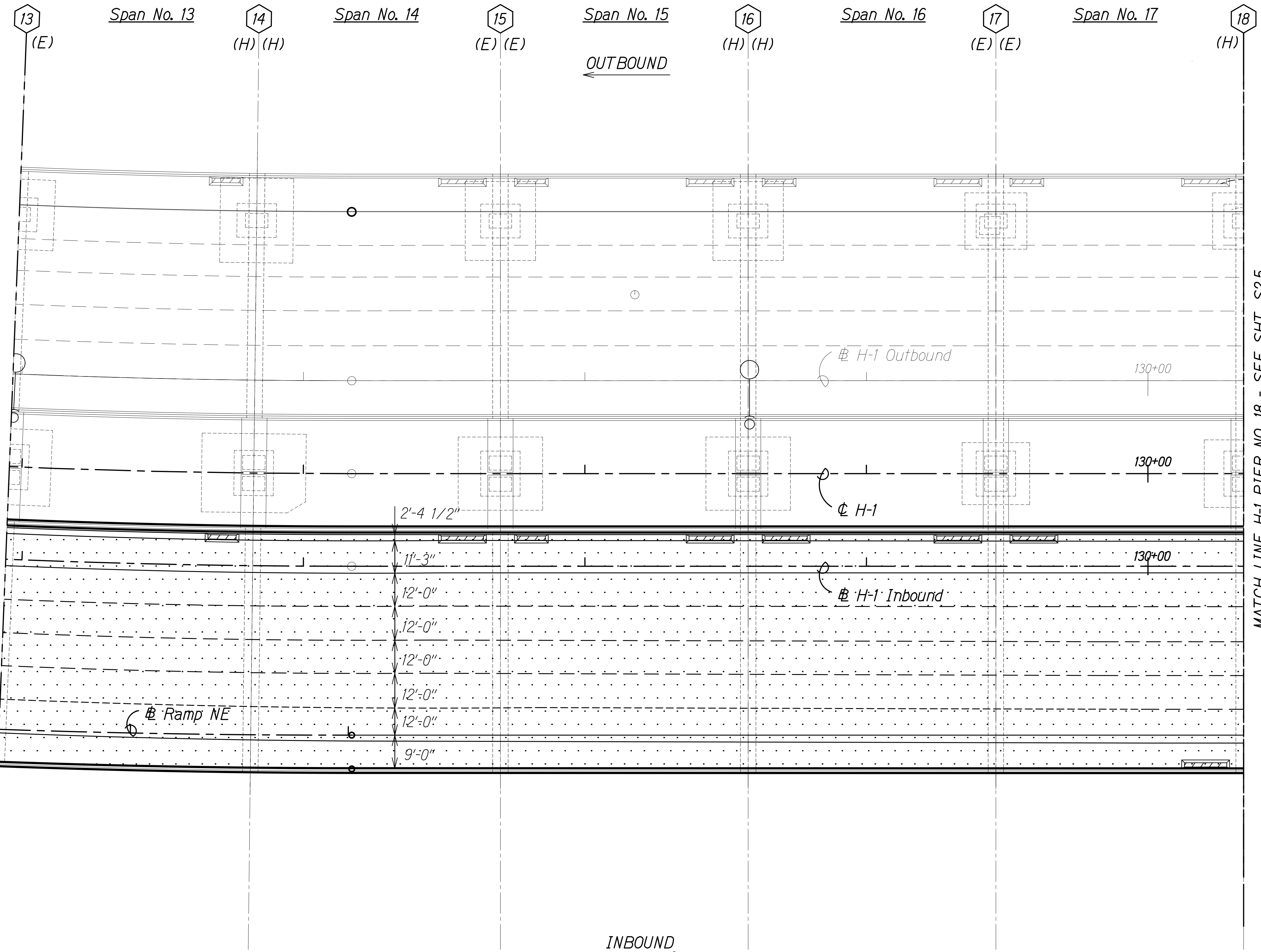
SHEET No. S2.4 OF 34 SHEETS

ADD. 167

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\AVR-S0204 CIP2 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:31 PM

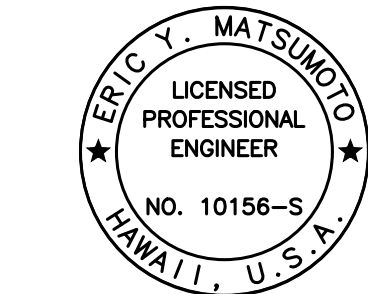
|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
|               | DESIGNED BY       |      |
|               | QUANTITIES BY     |      |
|               | CHECKED BY  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

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"



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. 168  | 214          |

Notes:

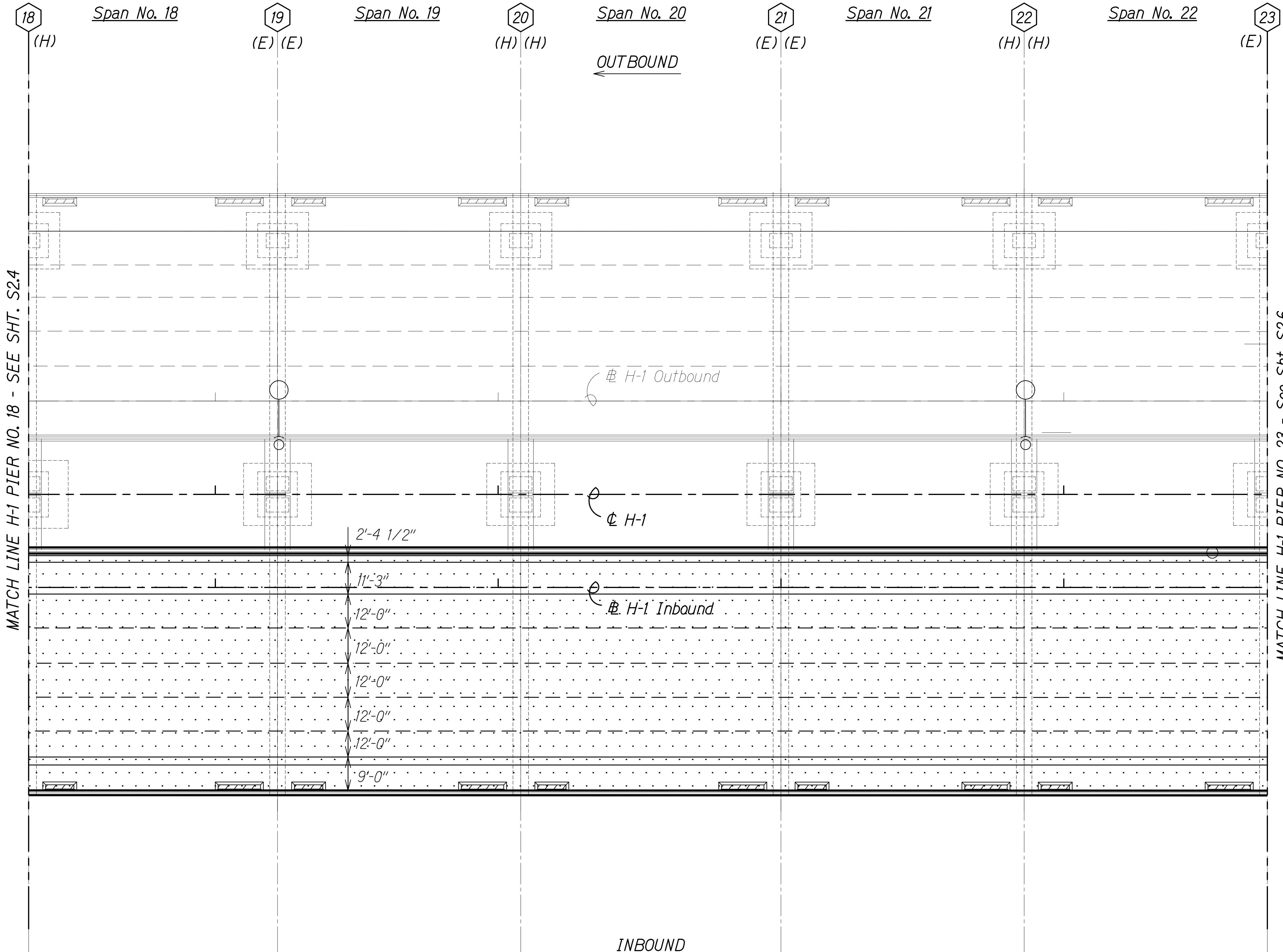
1. See Sheet S1.4 for NDT limits.  
2. See Sheet S0.2, Note 4.H.

Legend:

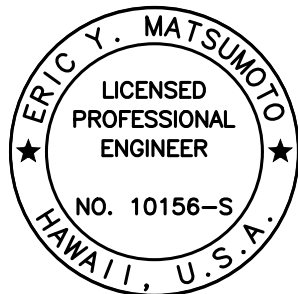
- # Pier No.  
Existing Polyester Concrete Overlay  
(E) Expansion Joint  
(F) Fixed Joint  
(H) Hinged Joint

|                                                                                                                                                                                                                                                                                                                                             |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 10/28/20                                                                                                                                                                                                                                                                                                                                    | 1 Add. 1 - Revised Note |
| DATE                                                                                                                                                                                                                                                                                                                                        | REVISION                |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>IB REPAIR PLAN</b><br><b>SPAN NO. 18 TO SPAN NO. 22</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b><br>Scale: As Noted Date: Aug. 2020 |                         |
| SHEET No. S25 OF 34 SHEETS                                                                                                                                                                                                                                                                                                                  |                         |

True North



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



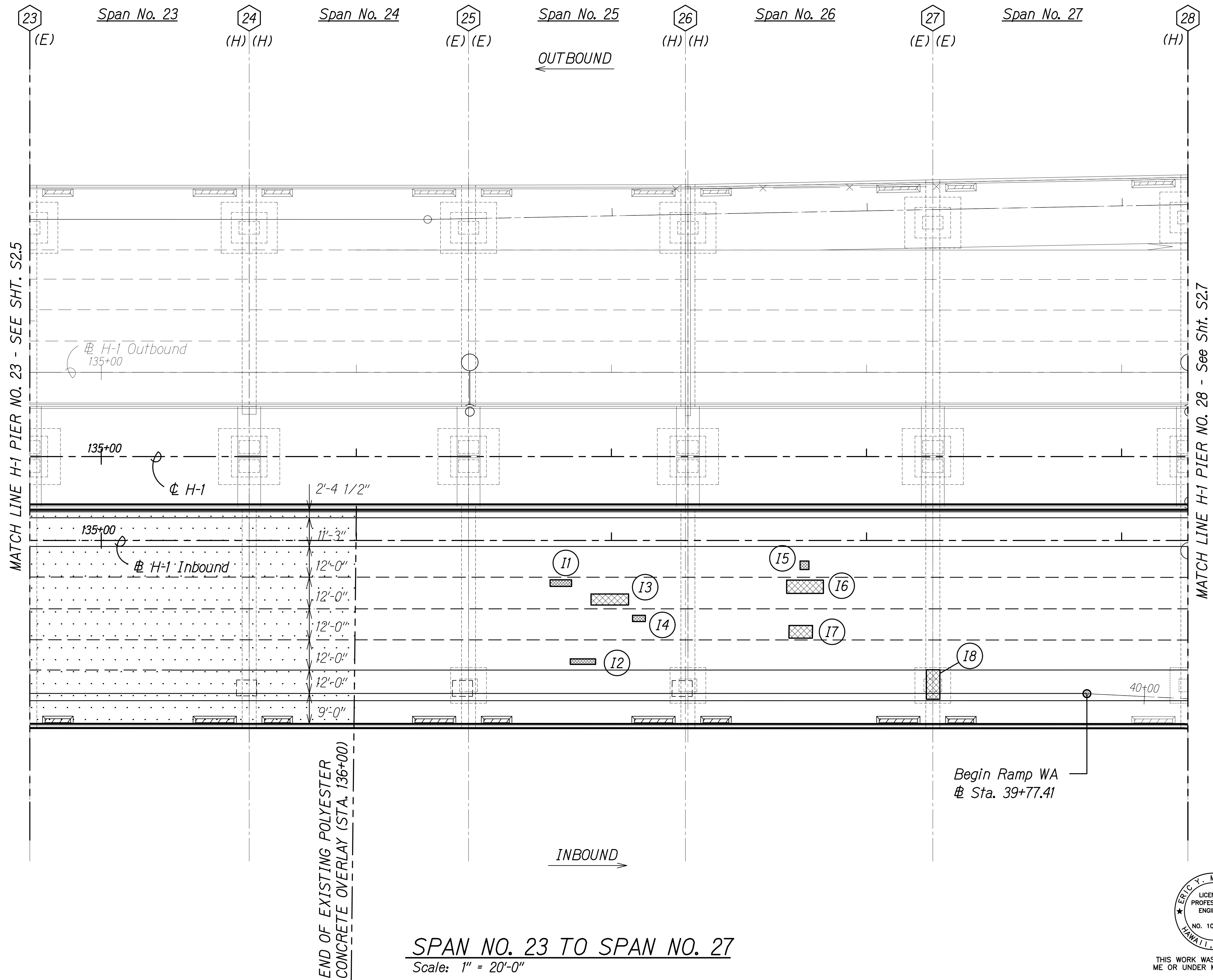
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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 ADD1.AVR-50204 CUP2 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. 169  | 214          |



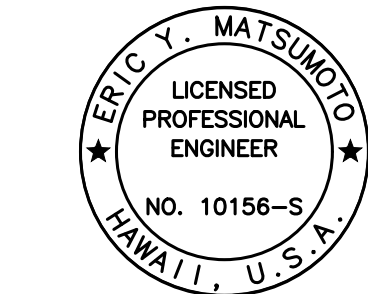
Notes:

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<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>IB &amp; RAMP WA REPAIR PLAN</b><br><b>SPAN NO. 23 TO SPAN NO. 27</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b> |                         |
| Scale: As Noted                                                                                                                                                                                                                                                                                                        | Date: Aug. 2020         |
| SHEET No. S2.6 OF 34 SHEETS                                                                                                                                                                                                                                                                                            |                         |



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ME OR UNDER MY SUPERVISION.

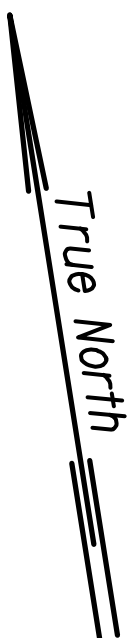
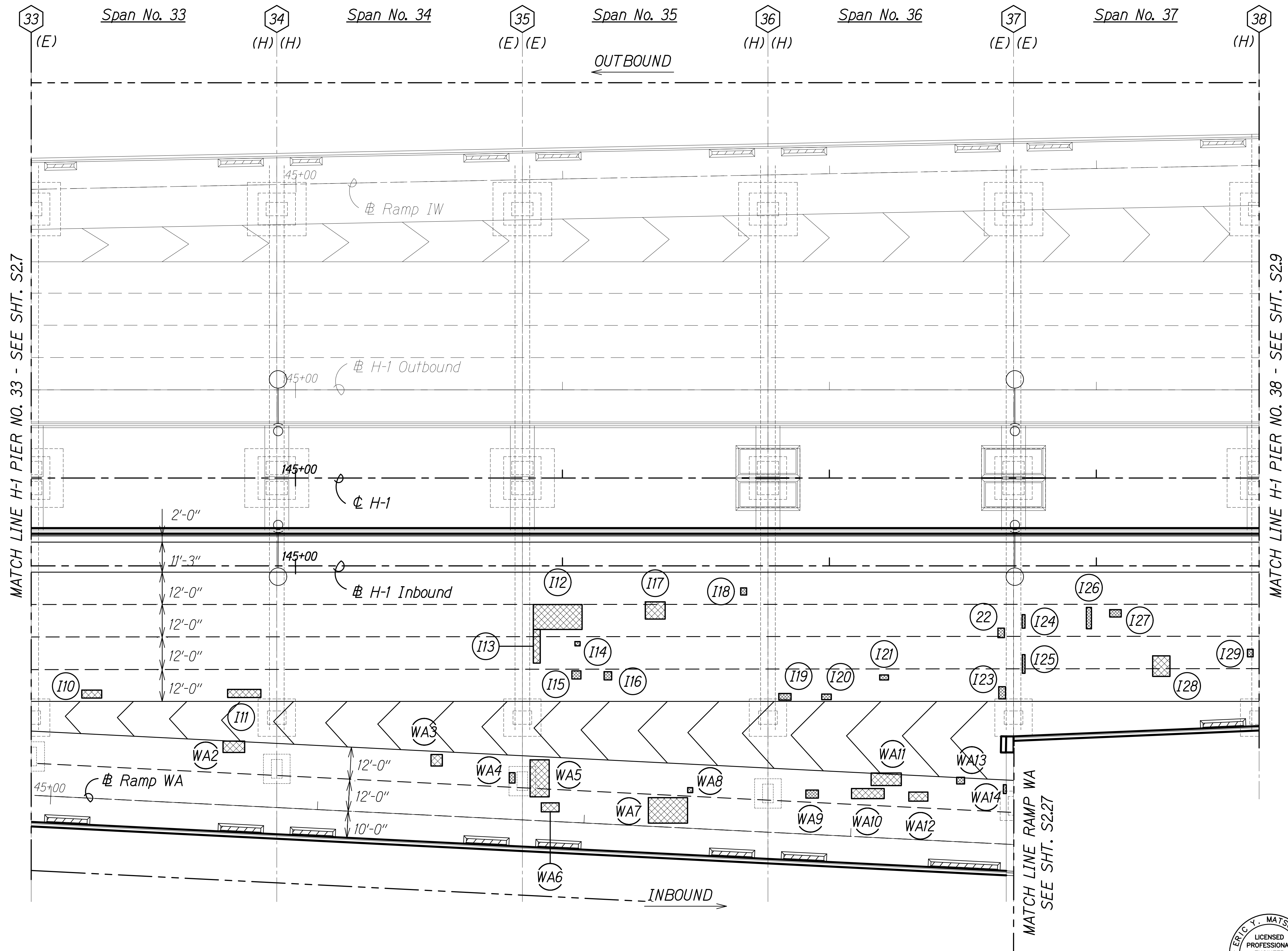
Signature: *Eric Y. Matsumoto*  
4-30-22  
EXPIRATION DATE OF THE LICENSE

|               |                   |      |
|---------------|-------------------|------|
| 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          |



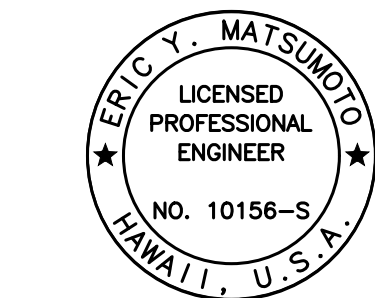
Notes:

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                                                                                                                                                                                                                                                                                                               | 1 Add. 1 - Revised Note |
| DATE                                                                                                                                                                                                                                                                                                                   | REVISION                |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>IB &amp; RAMP WA REPAIR PLAN</b><br><b>SPAN NO. 33 TO SPAN NO. 37</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b> |                         |
| Scale: As Noted                                                                                                                                                                                                                                                                                                        | Date: Aug. 2020         |
| SHEET No. S2.8 OF 34 SHEETS                                                                                                                                                                                                                                                                                            |                         |



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ME OR UNDER MY SUPERVISION.

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

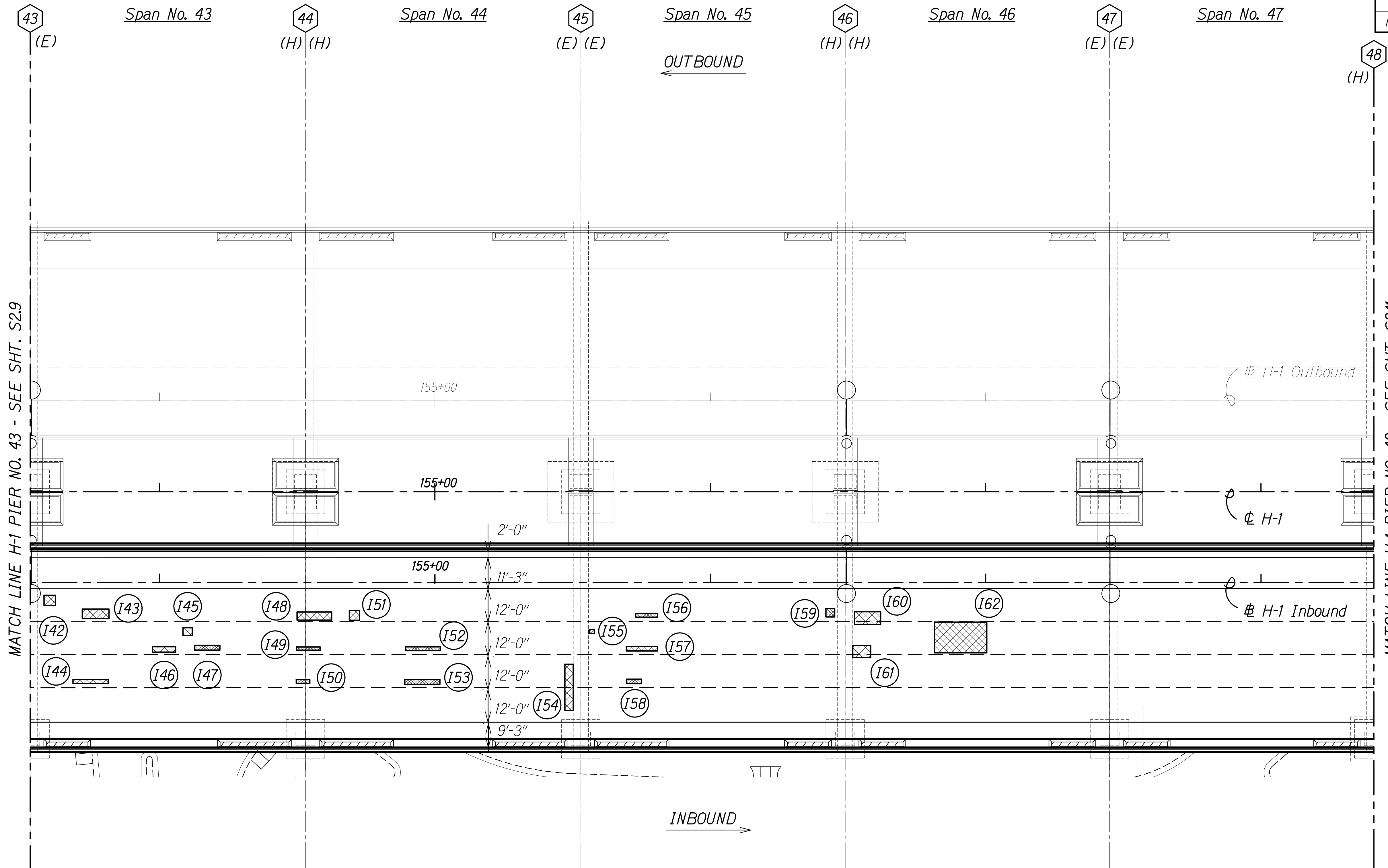
SPAN NO. 33 TO SPAN NO. 37  
Scale: 1" = 20'-0"

|               |      |
|---------------|------|
| ORIGINAL PLAN | DATE |
| 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-50208 CUP3 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:33 PM



| 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

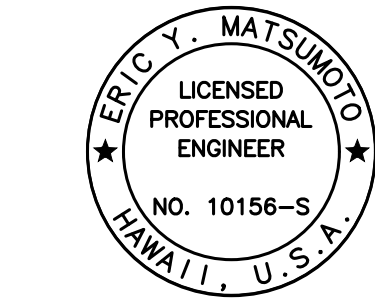
SHEET No. S2.10 OF 34 SHEETS

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:

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

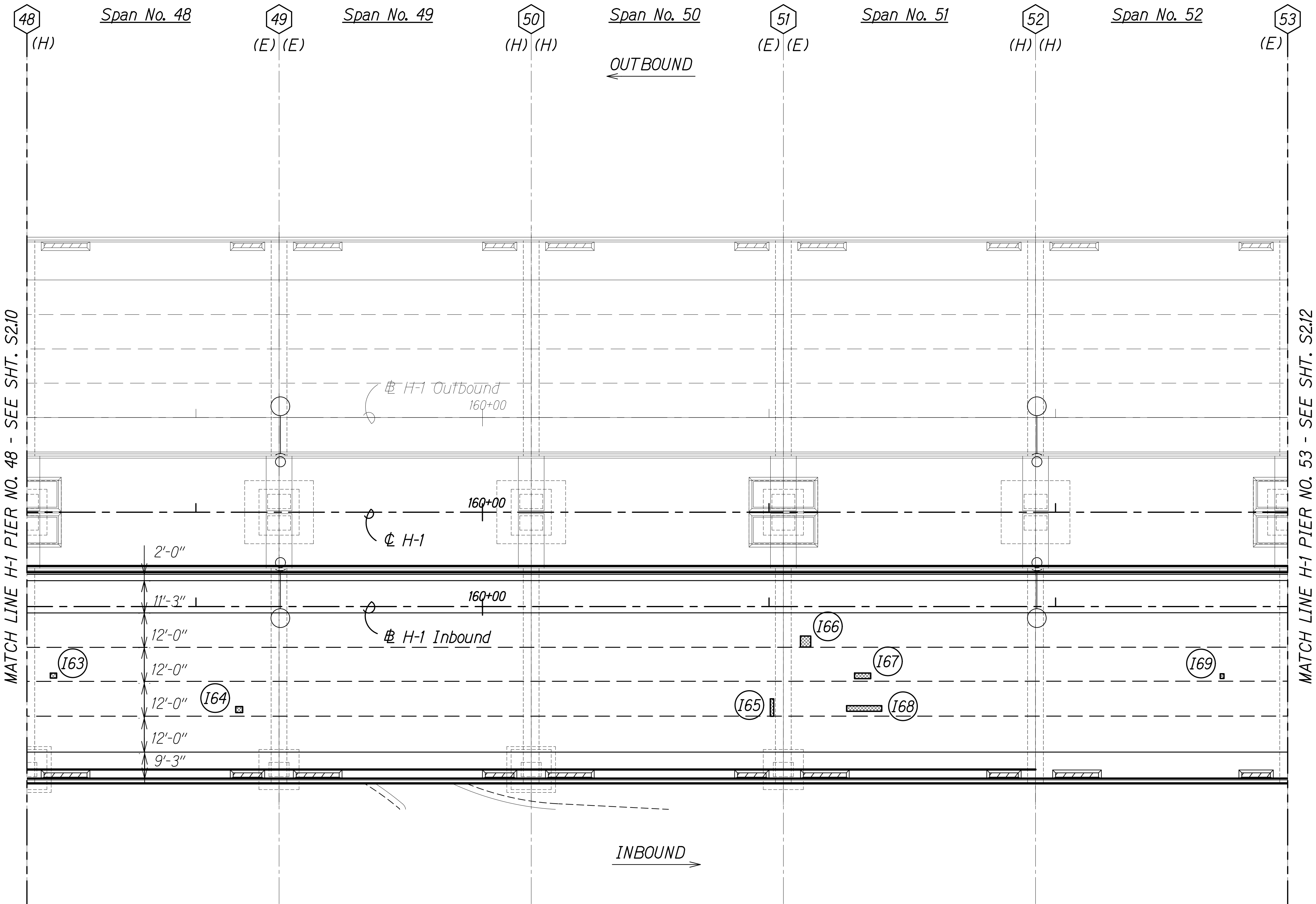
**IB REPAIR PLAN**  
**SPAN NO. 48 TO SPAN NO. 52**

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

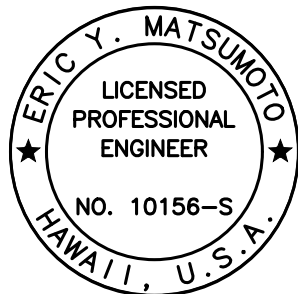
Scale: As Noted Date: Aug. 2020

SHEET No. S2.11 OF 34 SHEETS

ADD. 174



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



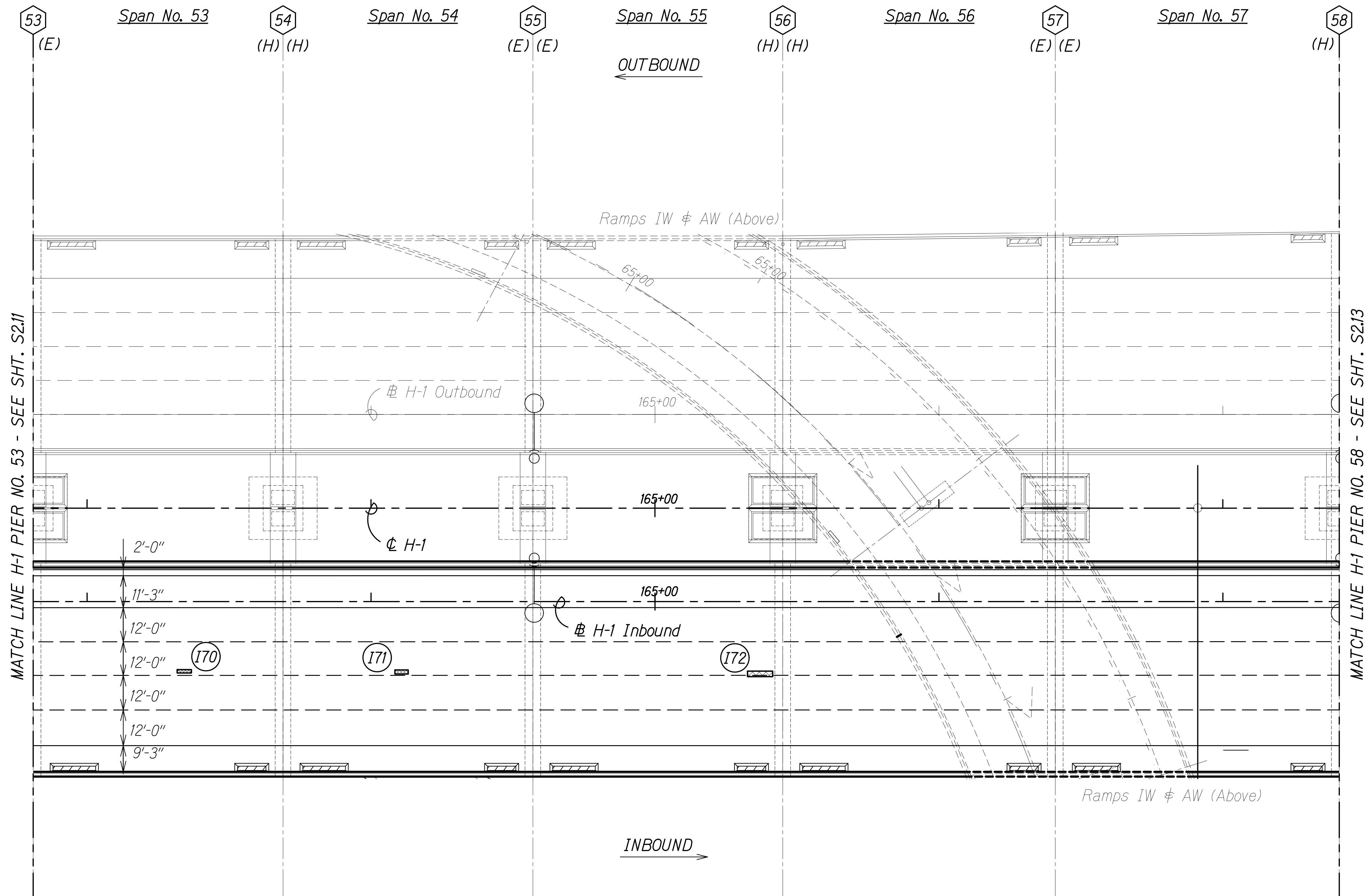
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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.174-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          |

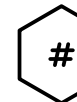


Notes:



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

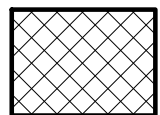
Legend:



Pier No.



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



Repair Area

(E) Expansion Joint

(F) Fixed Joint

(H) Hinged Joint

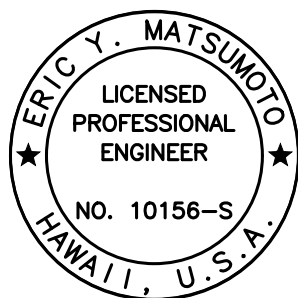
10/28/20



Add. 1 - Revised Note

DATE

REVISION



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  
**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)**

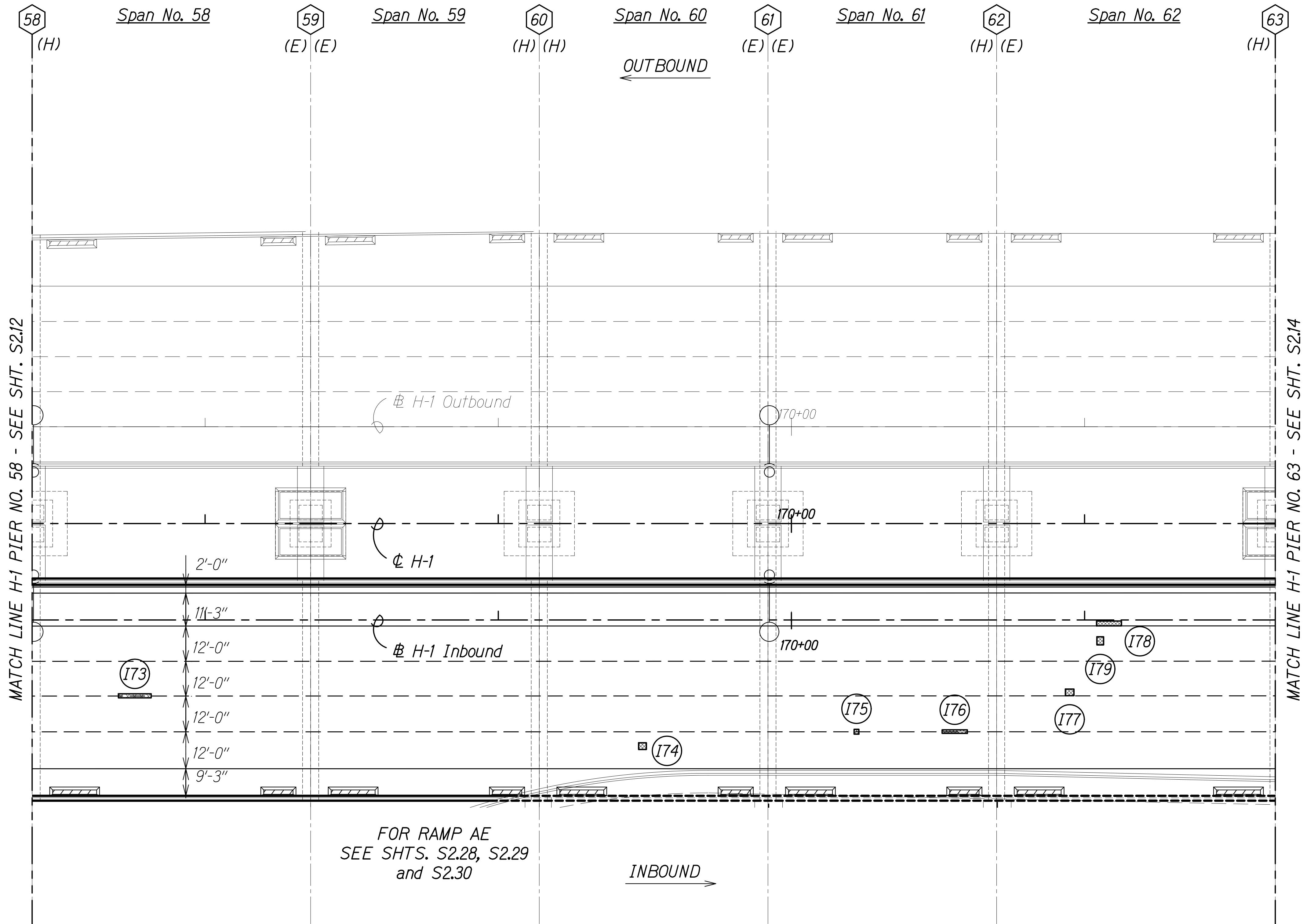
Scale: As Noted

Date: Aug. 2020

SHEET No. S2.12 OF 34 SHEETS

ADD. 175

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-HI-1(276)          | 2020        | ADD. 176  | 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 Add. 1 - Revised Note

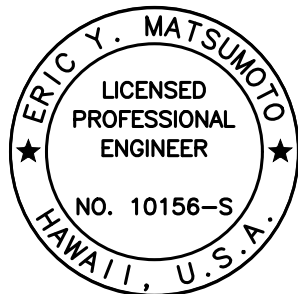
DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**IB REPAIR PLAN**  
**SPAN NO. 58 TO SPAN NO. 62**  
**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. 176



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

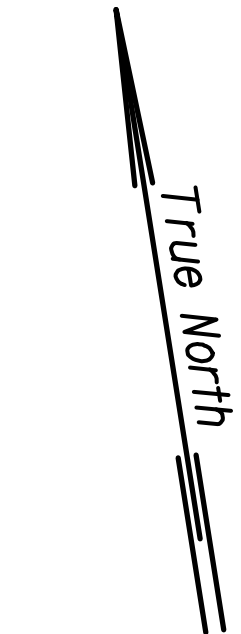
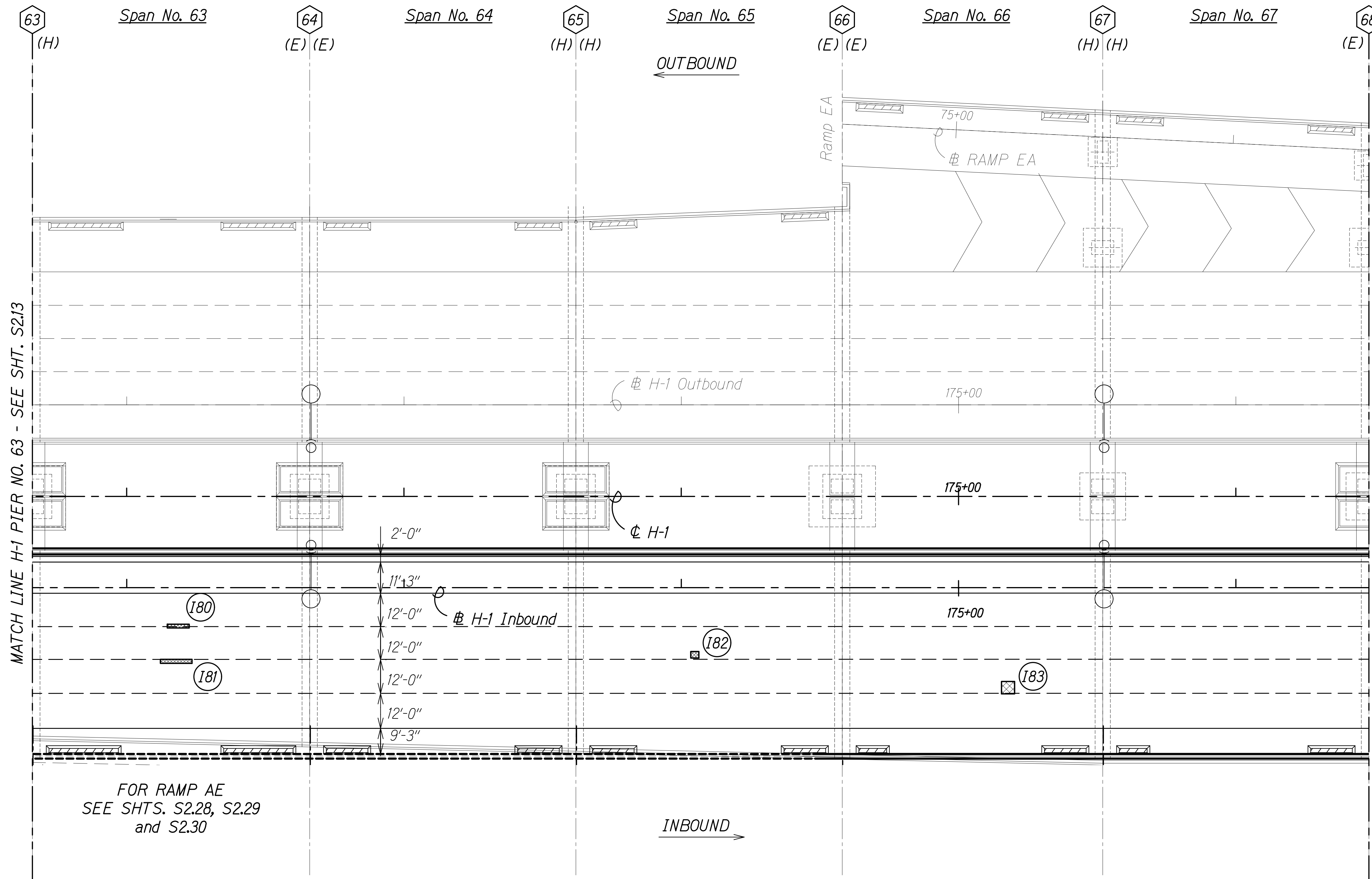
Signature: Eric Y. Matsumoto

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-S0212 CIP4 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:36 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:

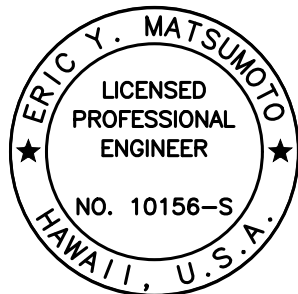
- See Sheet S1.4 for NDT limits.
- See Sheet S0.2, Note 4.H.

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"



THIS WORK WAS PREPARED BY  
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

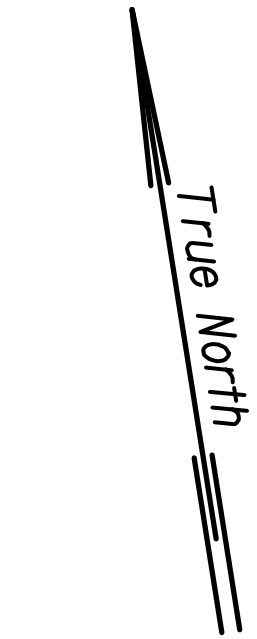
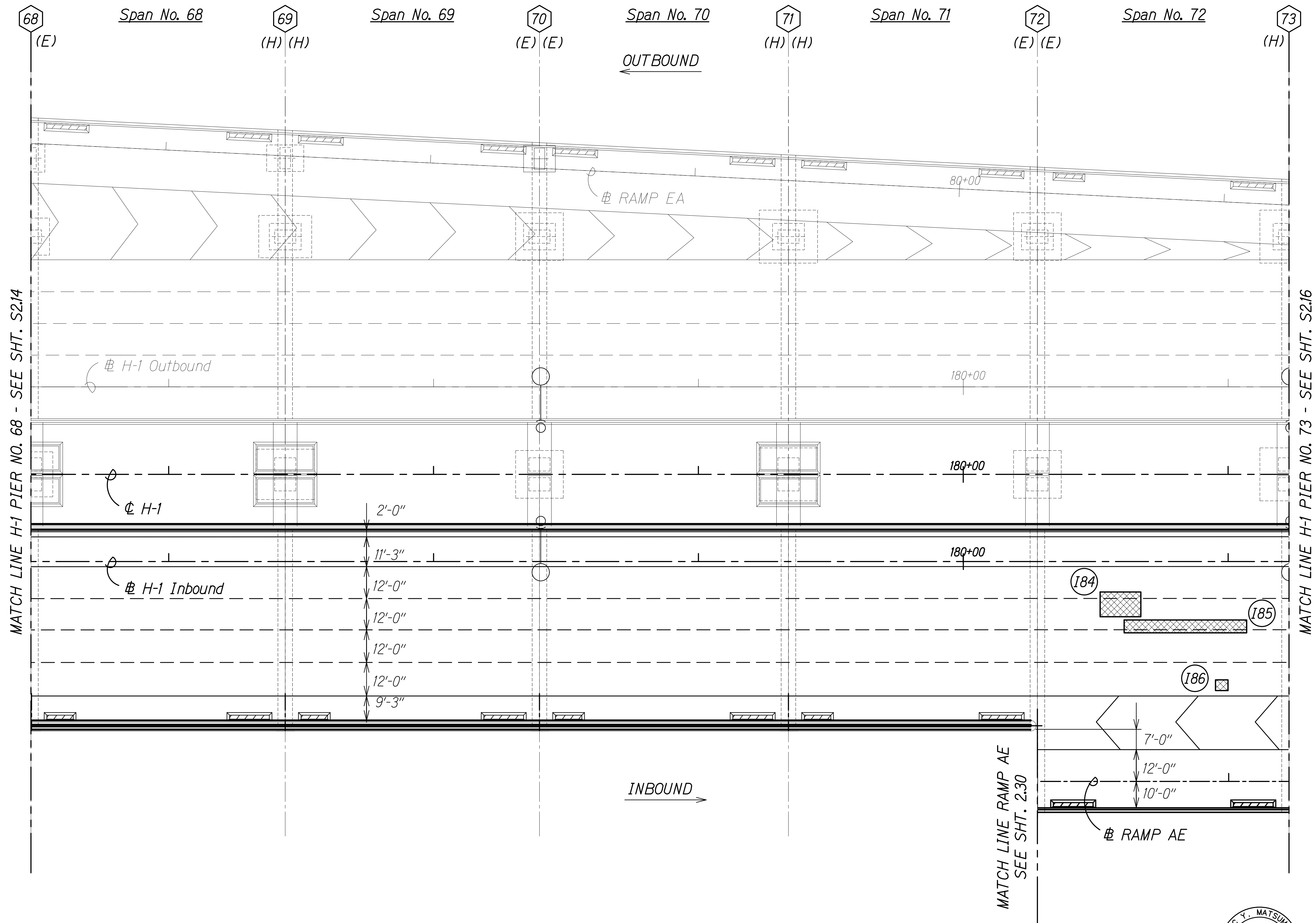
SHEET No. S2.14 OF 34 SHEETS

ADD. 177

|               |                   |      |
|---------------|-------------------|------|
| 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-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. 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 Add. 1 - Revised Note

DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

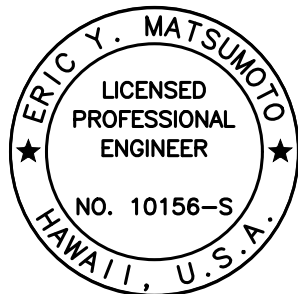
**IB & RAMP AE REPAIR PLAN**  
**SPAN NO. 68 TO SPAN NO. 72**

**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. S215 OF 34 SHEETS

ADD. 178



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto  
4-30-22  
SIGNATURE 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

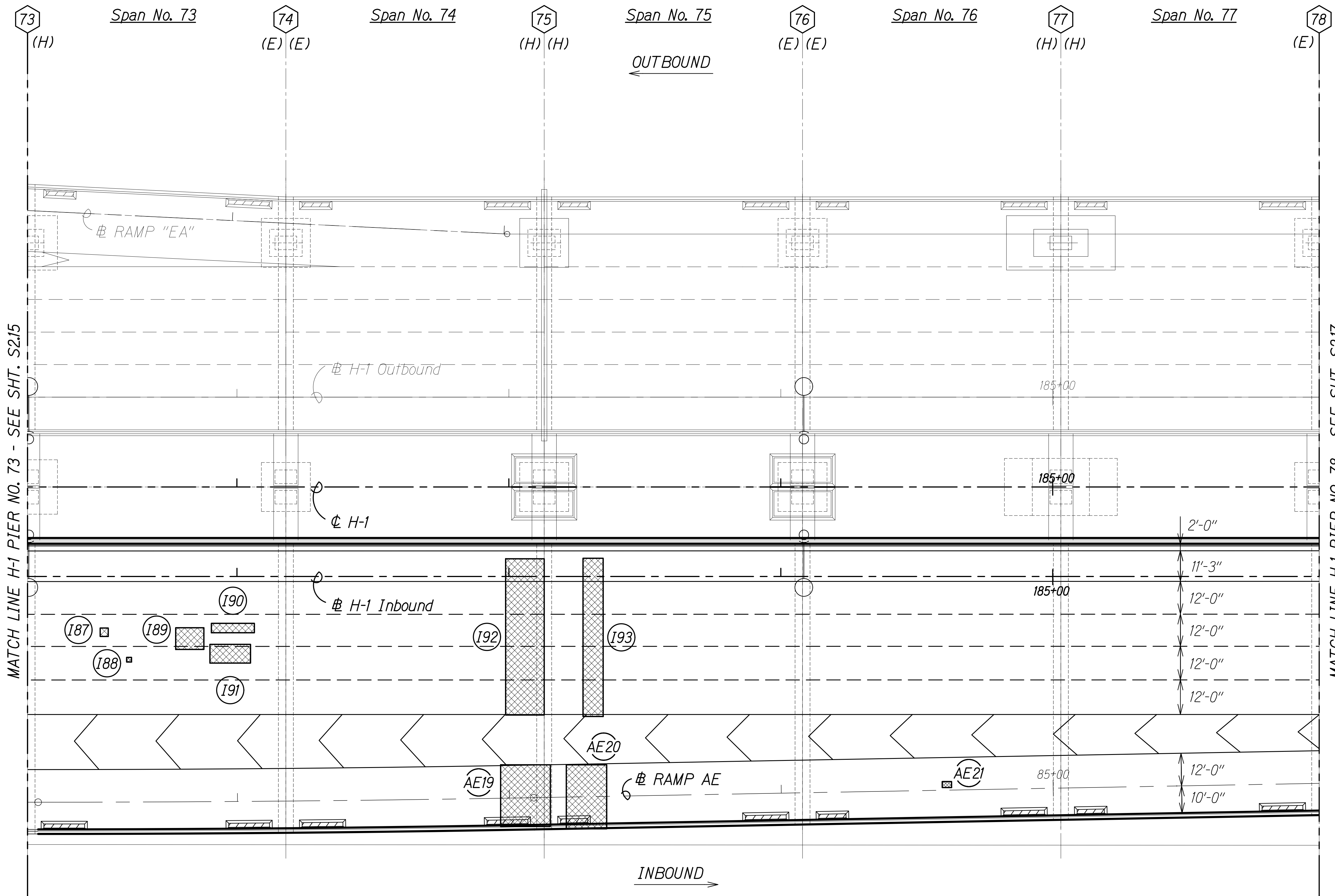
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**IB & RAMP AE REPAIR PLAN**  
**SPAN NO. 73 TO SPAN NO. 77**

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

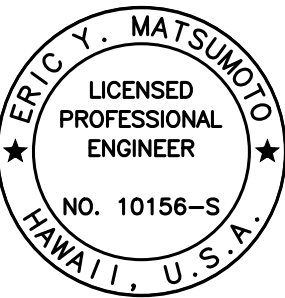
Scale: As Noted Date: Aug. 2020

SHEET No. S2.16 OF 34 SHEETS

ADD. 179



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



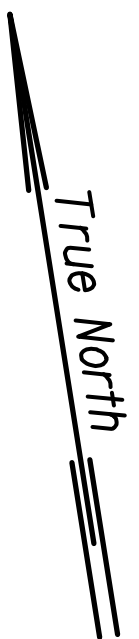
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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

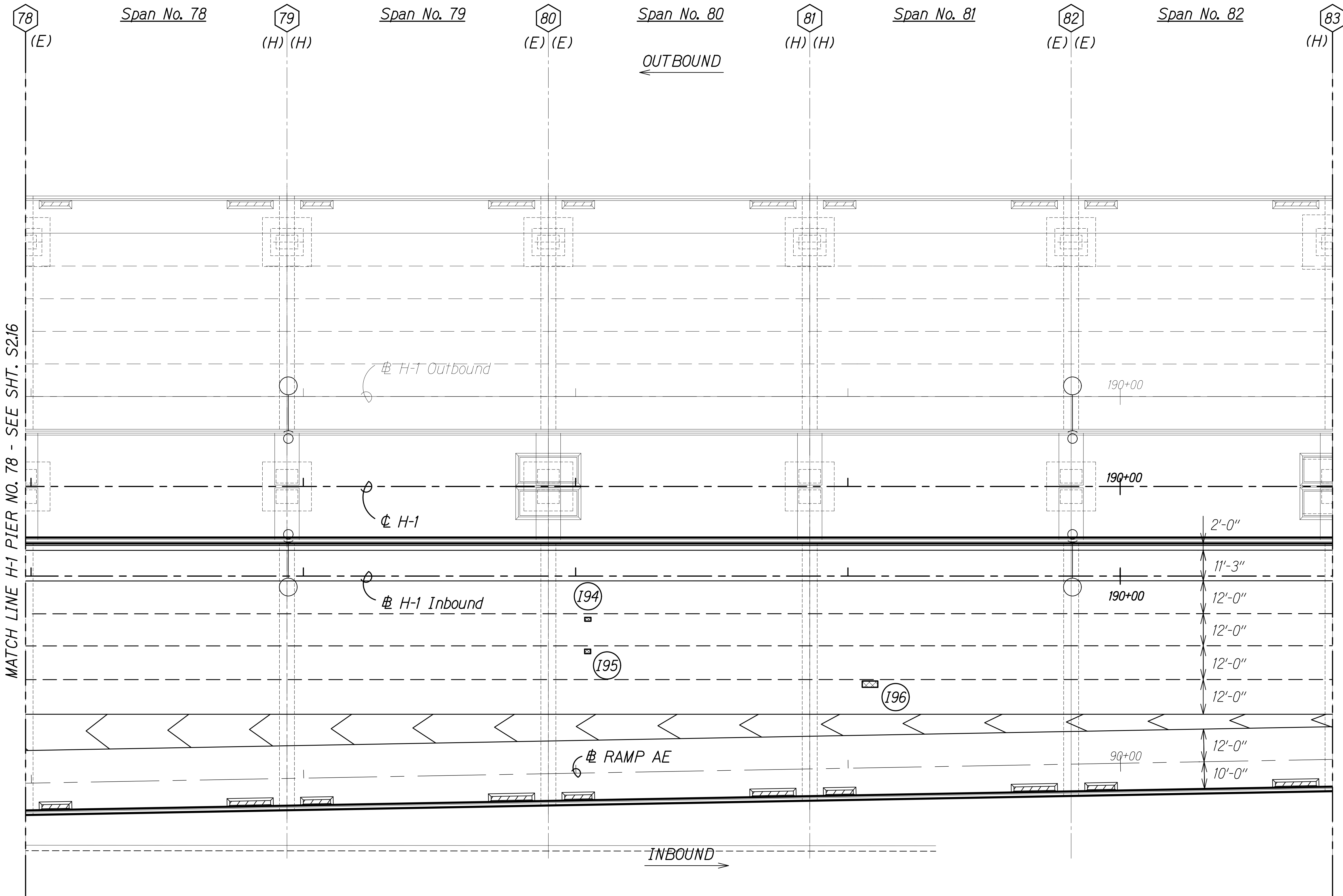
IB & RAMP AE REPAIR PLAN  
SPAN NO. 78 TO SPAN NO. 82

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

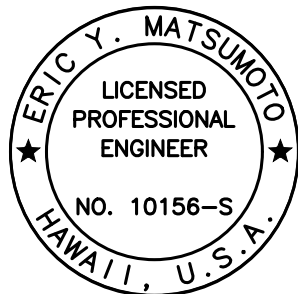
Scale: As Noted Date: Aug. 2020

SHEET No. S2.17 OF 34 SHEETS

ADD. 180



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



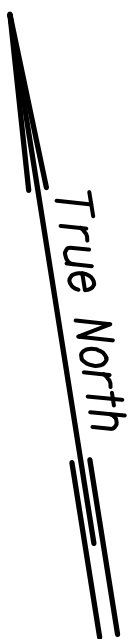
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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

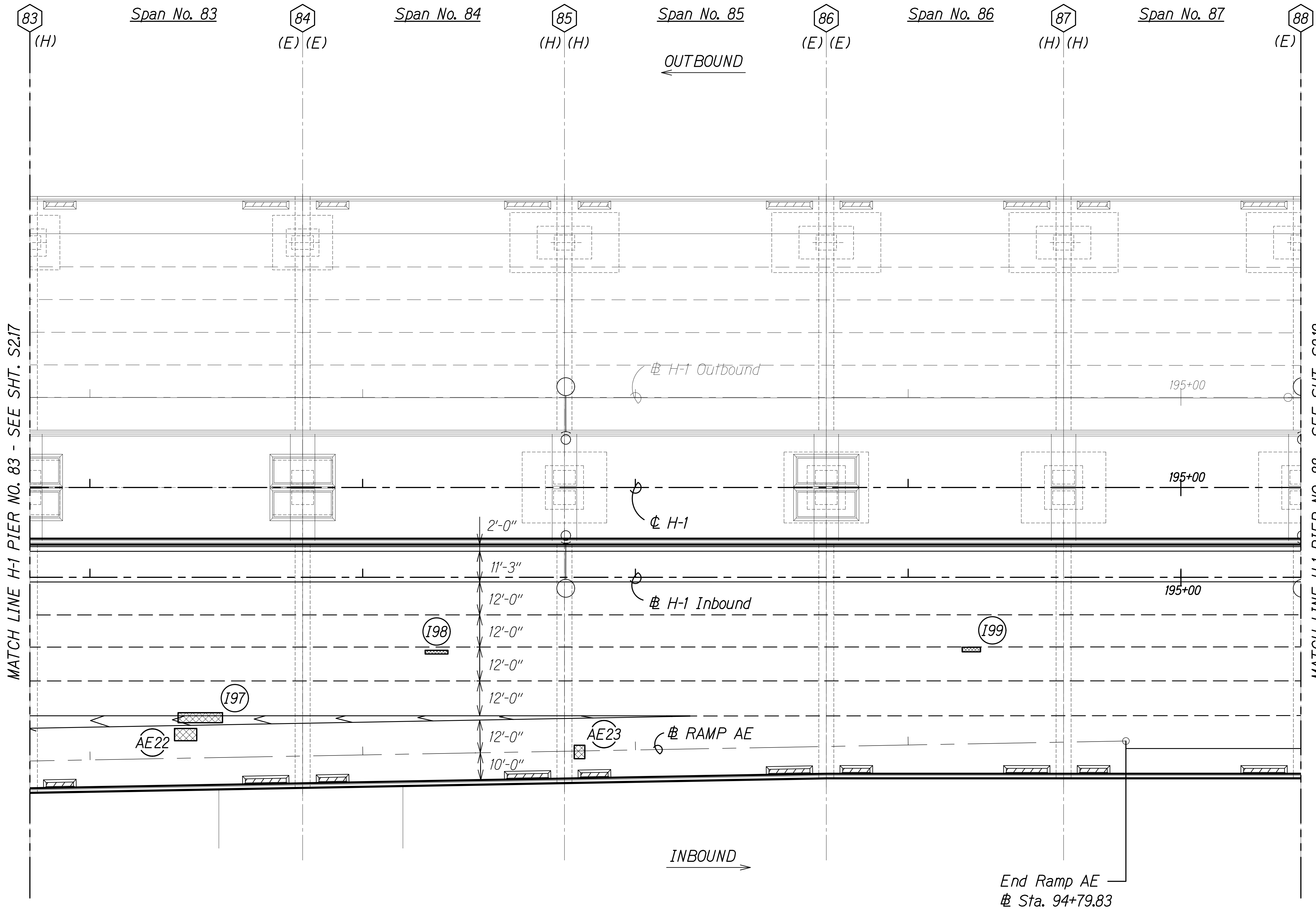
IB & RAMP AE REPAIR PLAN  
SPAN NO. 83 TO SPAN NO. 87

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

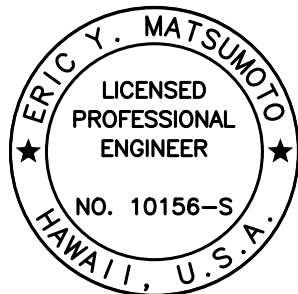
Scale: As Noted Date: Aug. 2020

SHEET No. S2.18 OF 34 SHEETS

ADD. 181



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



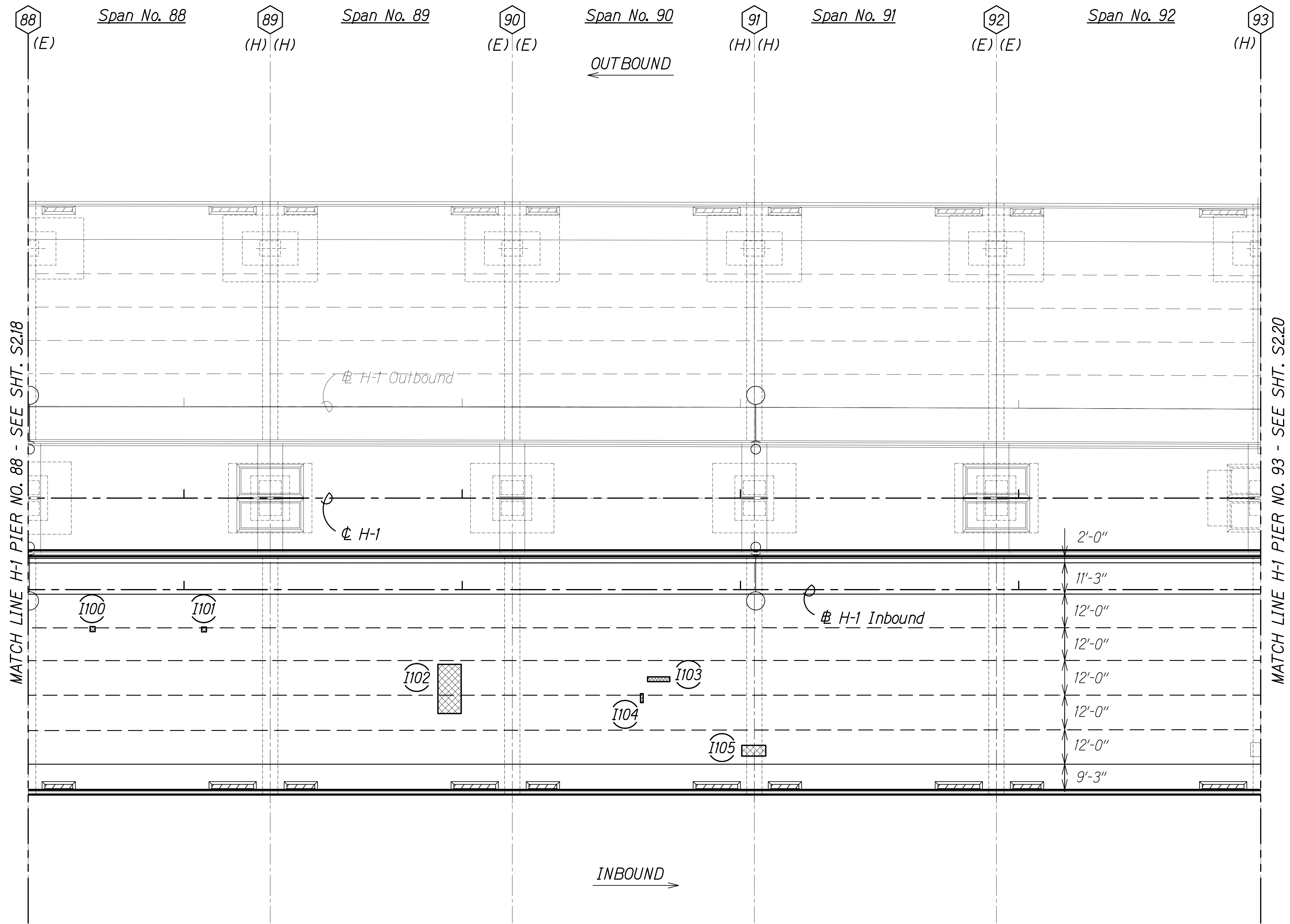
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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

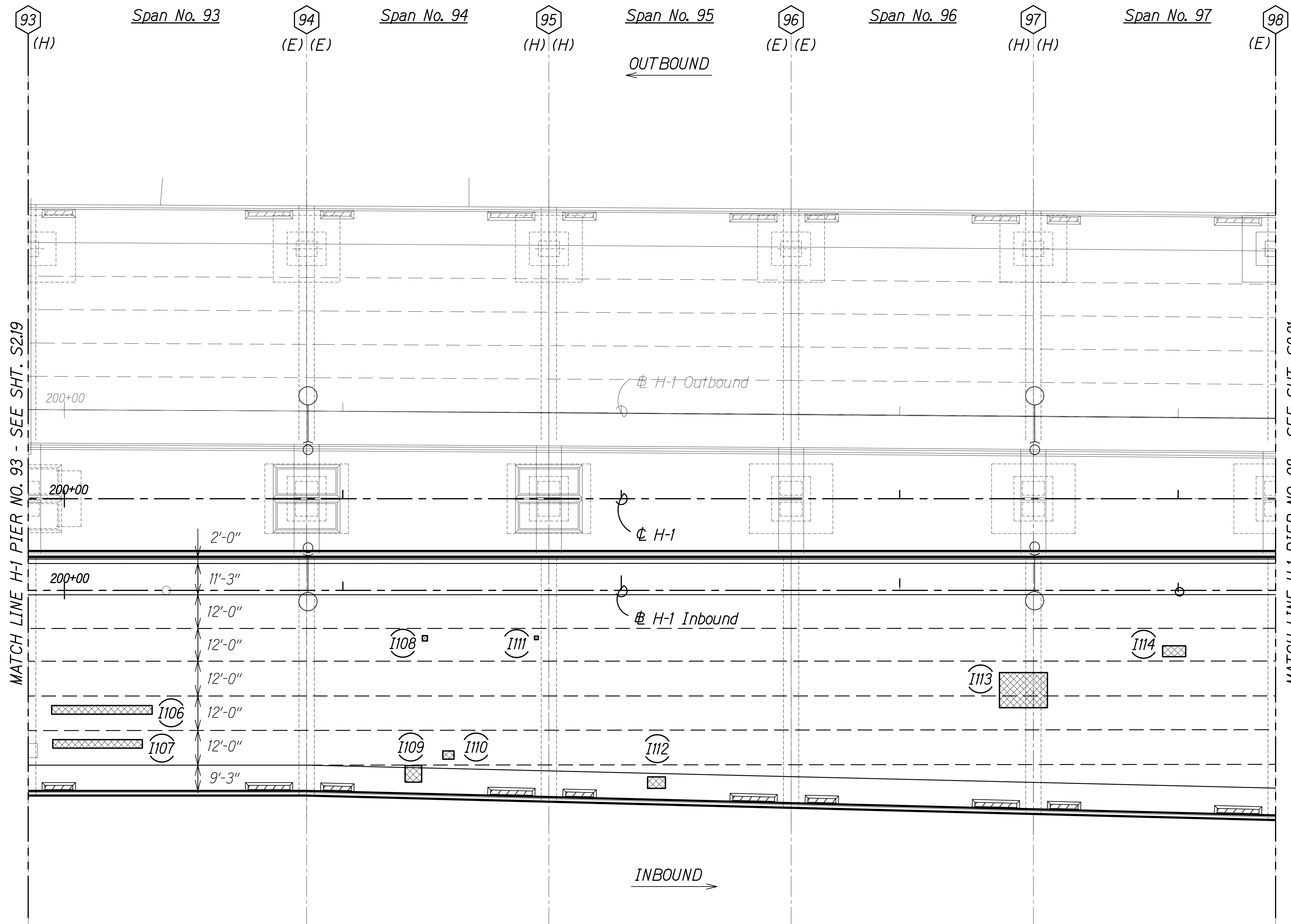
|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
| No.           | DESIGNED BY       |      |
|               | CHECKED BY        |      |

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"

ERIC Y. MATSUMOTO  
LICENSED PROFESSIONAL ENGINEER  
NO. 10156-S  
HAWAII, U.S.A.  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.  
Signature: Eric Y. Matsumoto  
EXPIRATION DATE OF THE LICENSE: 4-30-22

| 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**

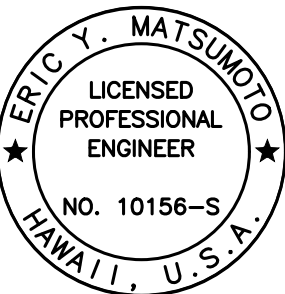
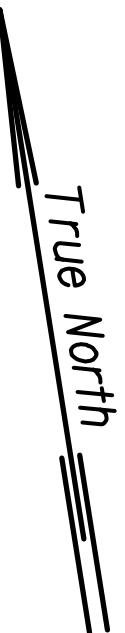
**INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS**  
**VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2**  
**FEDERAL-AID PROJECT NO. NH-HI-1(276)**

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.

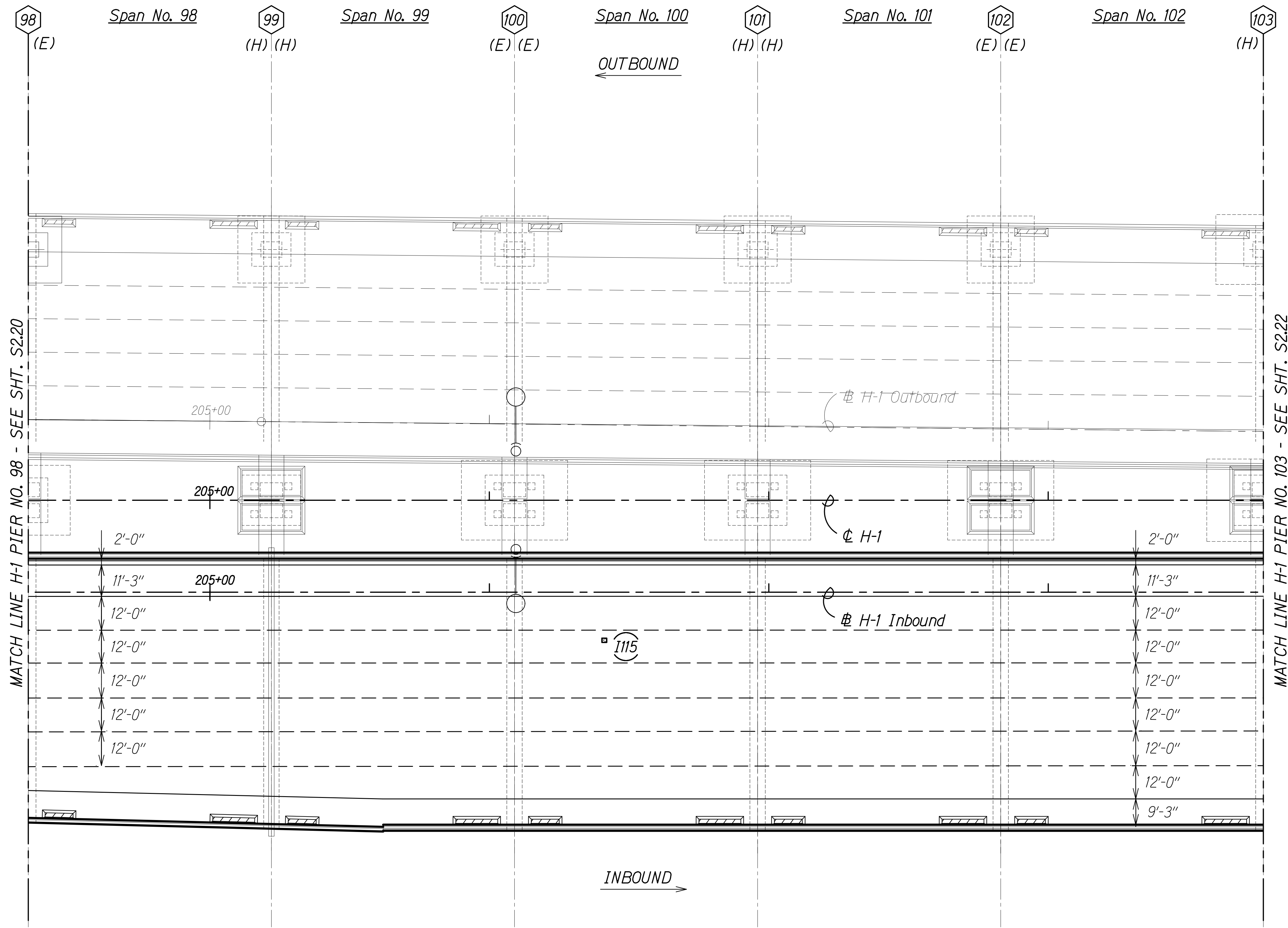
Signature: Eric Y. Matsumoto  
4-30-22  
SIGNATURE EXPIRATION DATE OF THE LICENSE

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

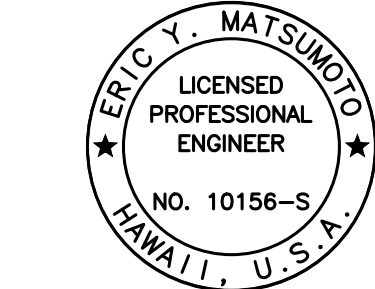
SHEET No. S2.21 OF 34 SHEETS

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-50219 CLIP6 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20 4:41 PM

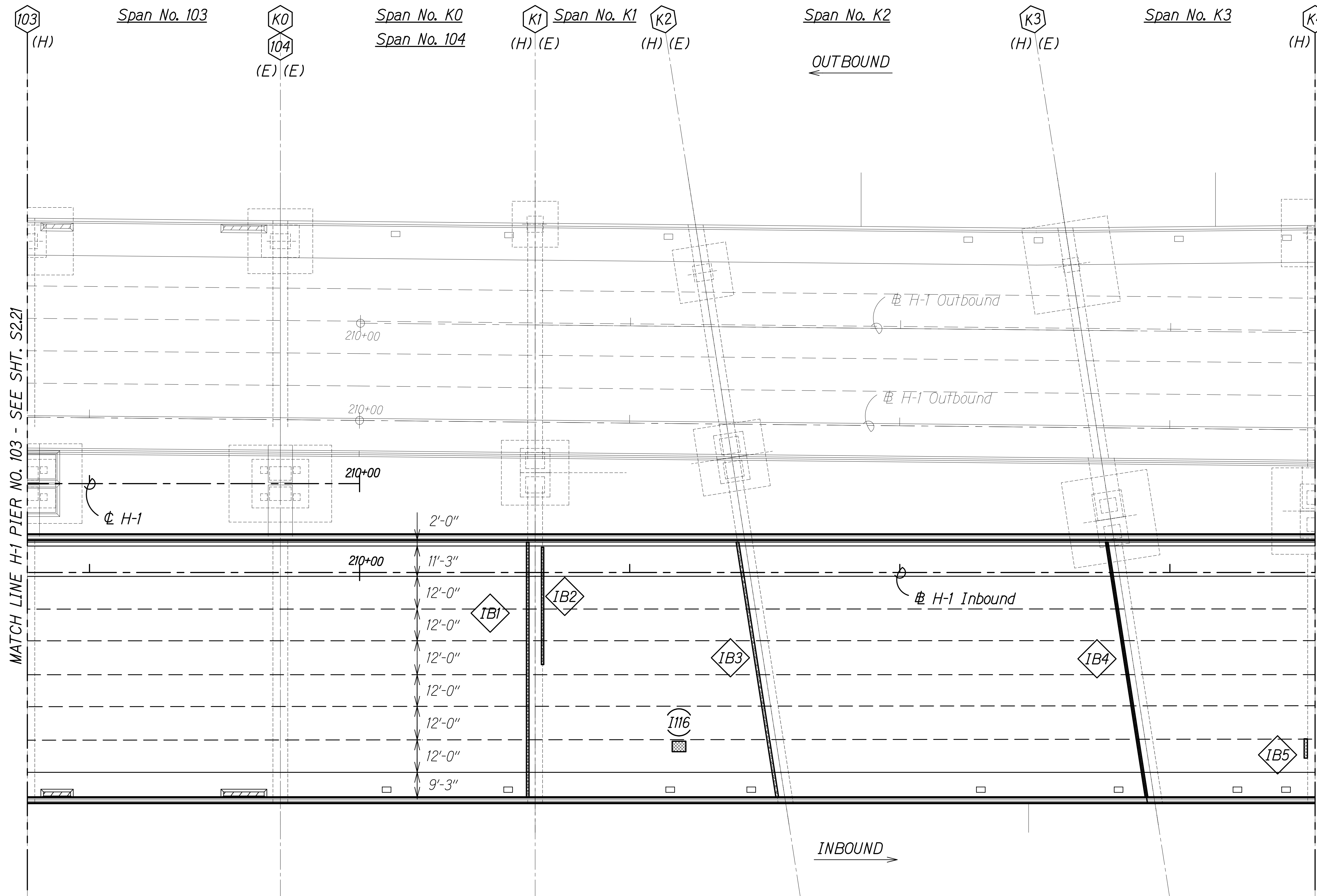
SPAN NO. 98 TO SPAN NO. 102  
Scale: 1" = 20'-0"



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

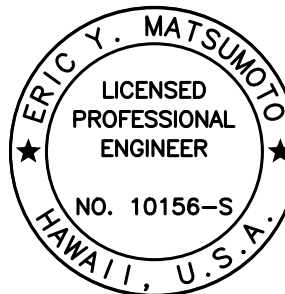
DATE REVISION

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 EXPIRATION DATE OF THE LICENSE 4-30-22

**SPAN NO. 103 TO SPAN NO. K3**  
Scale: 1" = 20'-0"

|               |      |
|---------------|------|
| ORIGINAL PLAN | DATE |
| 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-50219 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

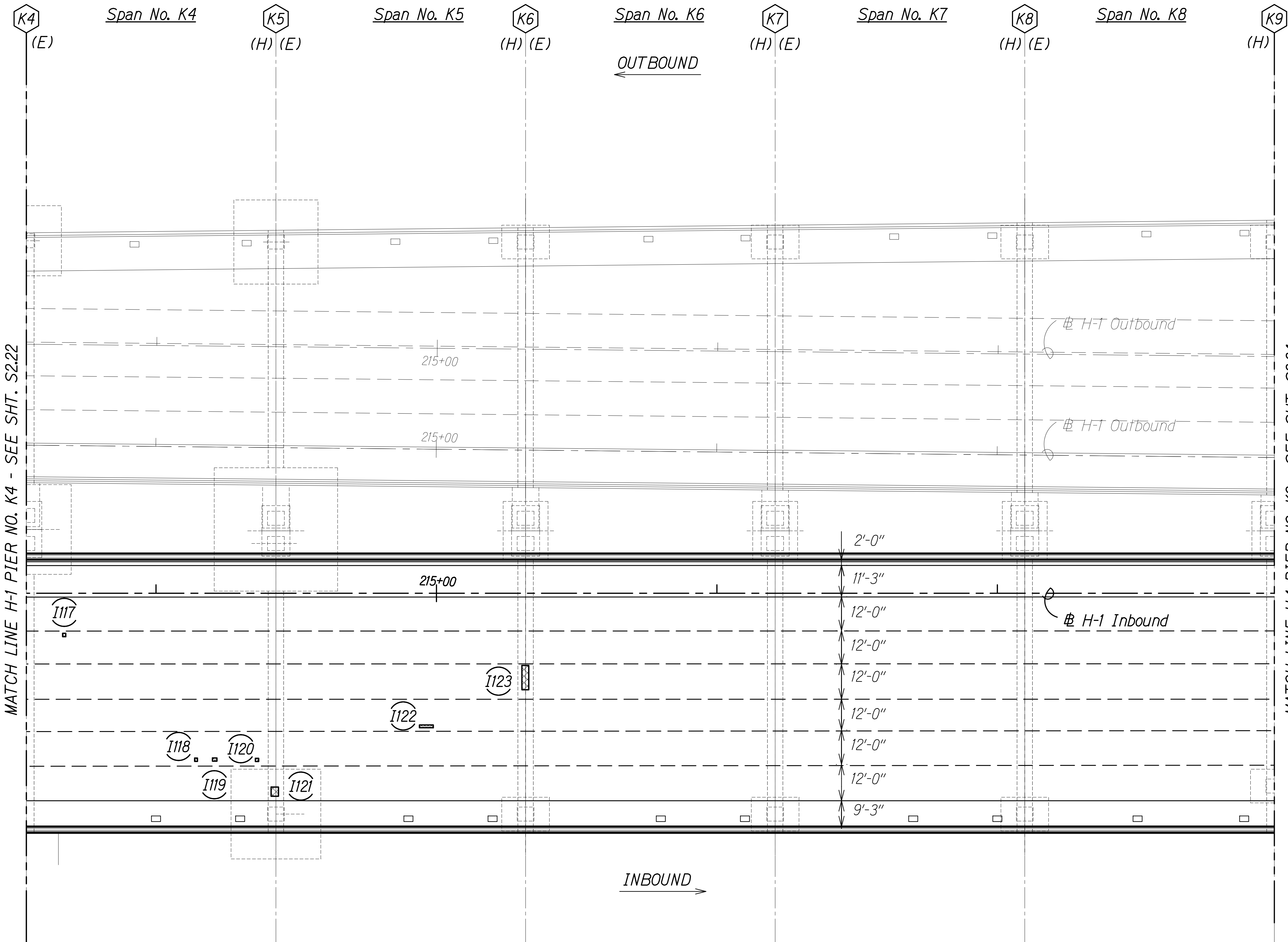
DATE REVISION

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)**

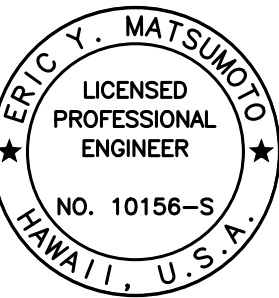
Scale: As Noted Date: Aug. 2020

SHEET No. S2.23 OF 34 SHEETS

ADD. 186



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



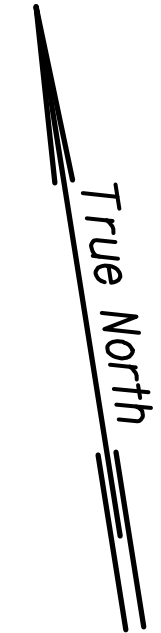
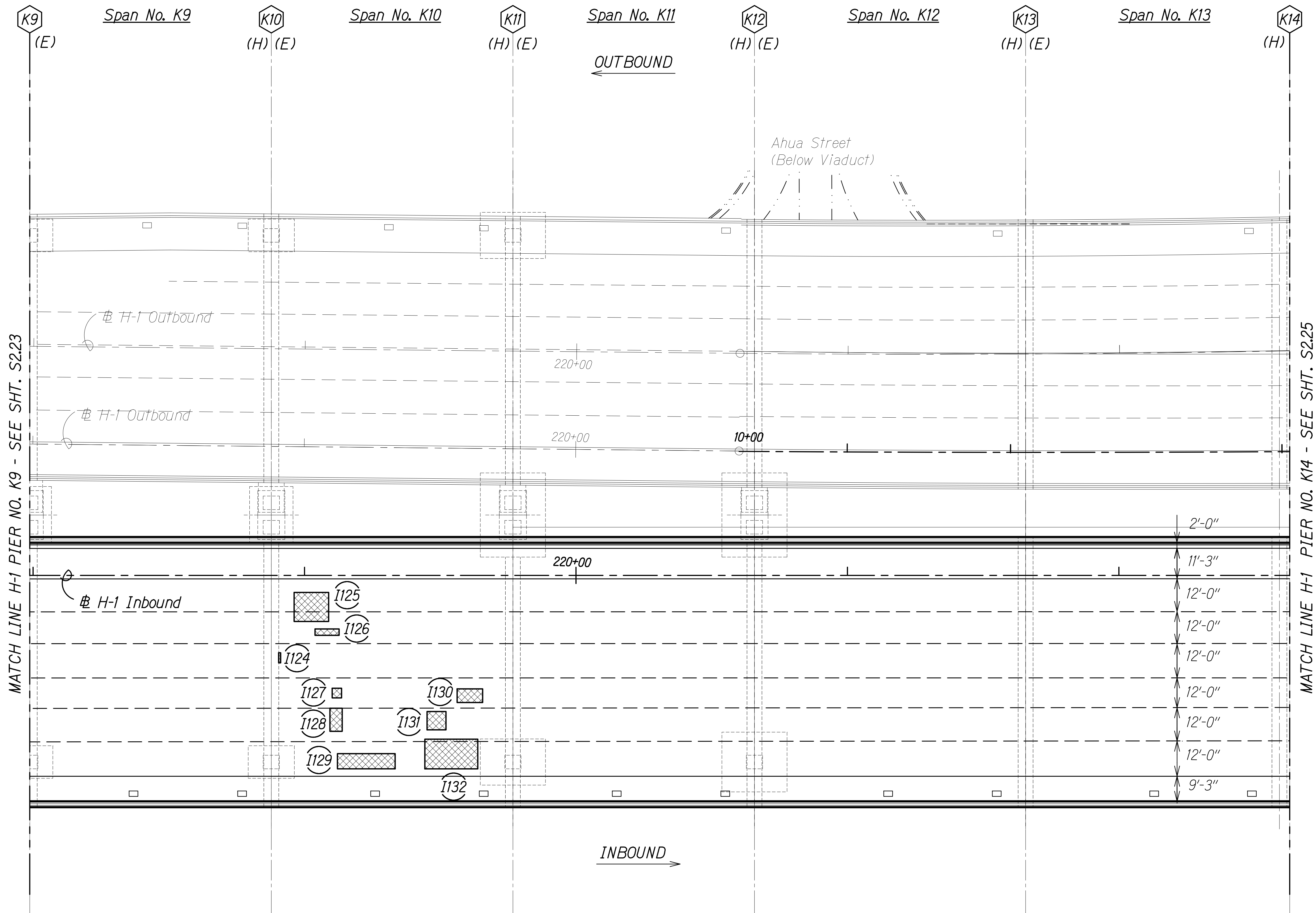
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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

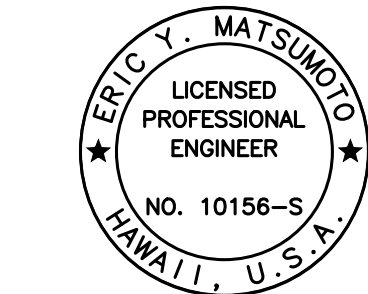
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-HI-1(276)          | 2020        | ADD. 187  | 214          |



- Notes:
- See Sheet S1.4 for NDT limits.
  - 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                                                                                                                                                                                                                                                                                                  | 1 Add. 1 - Revised Note |
| DATE                                                                                                                                                                                                                                                                                                      | REVISION                |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>IB REPAIR PLAN</b><br><b>SPAN NO. K9 TO SPAN NO. K13</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b> |                         |
| Scale: As Noted                                                                                                                                                                                                                                                                                           | Date: Aug. 2020         |
| SHEET No. S2.24 OF 34 SHEETS                                                                                                                                                                                                                                                                              |                         |



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

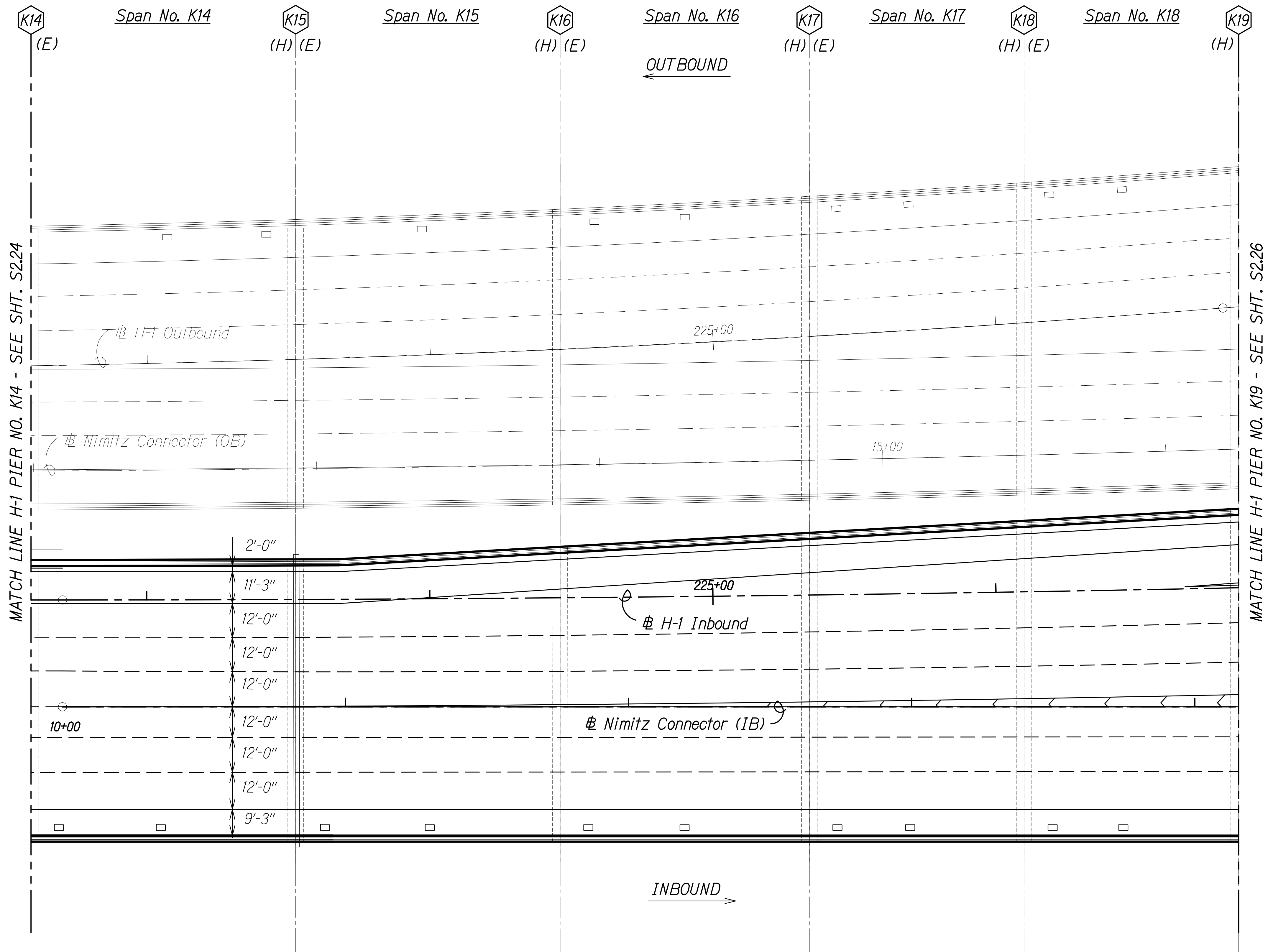
Signature: Eric Y. Matsumoto  
4-30-22  
EXPIRATION DATE OF THE LICENSE

SPAN NO. K9 TO SPAN NO. K13  
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\AVR-S0223 CUP7 H1 PLAN ADD1.DWG PLOT TIME: 10-29-20, 4:44 PM

| 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          |



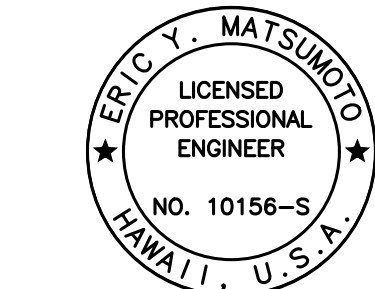
Notes:

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<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>IB REPAIR PLAN</b><br><b>SPAN NO. K14 TO SPAN NO. K18</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b><br>Scale: As Noted Date: Aug. 2020 |                         |
| SHEET No. S2.25 OF 34 SHEETS                                                                                                                                                                                                                                                                                                                  |                         |



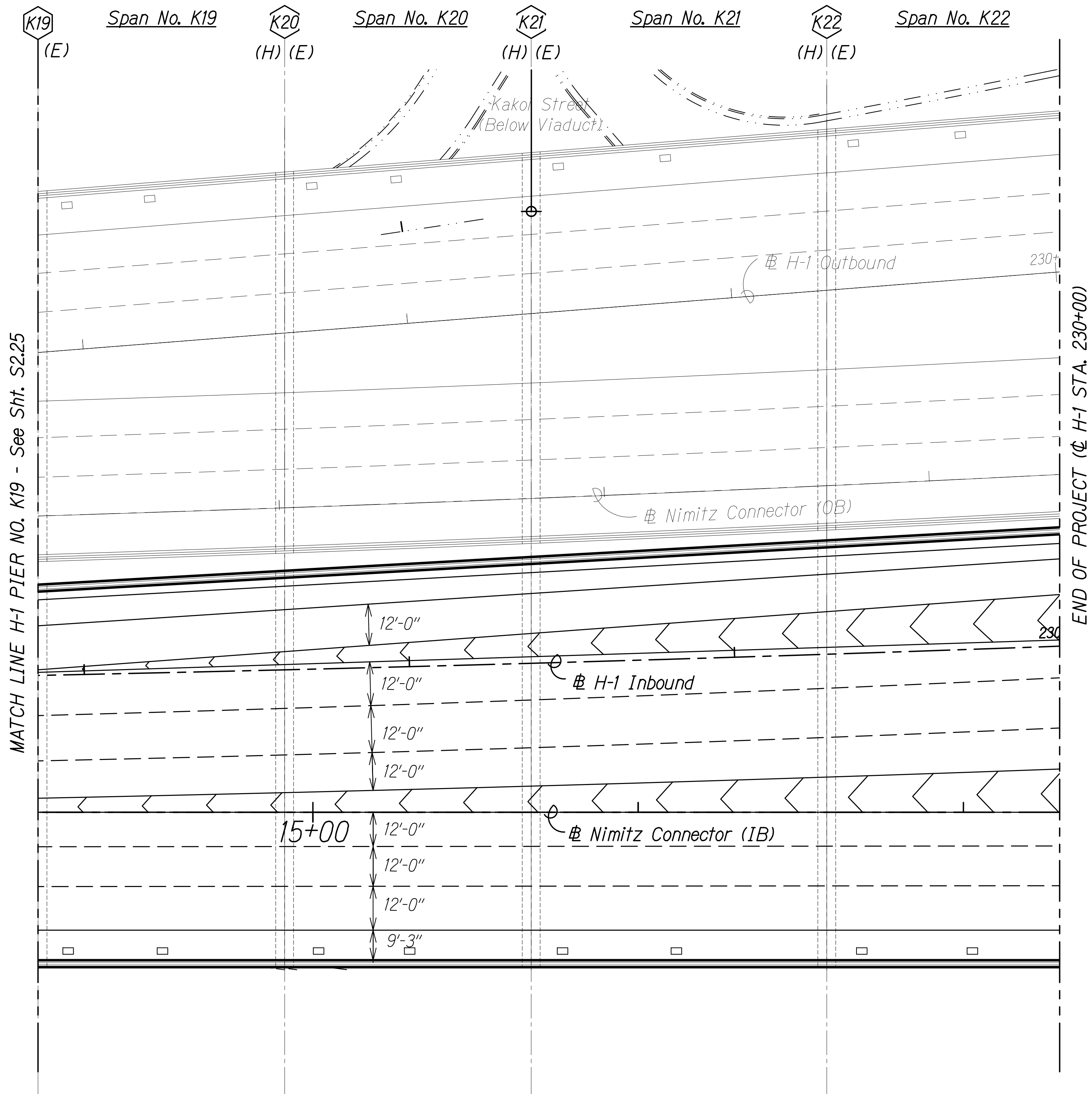
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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\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:

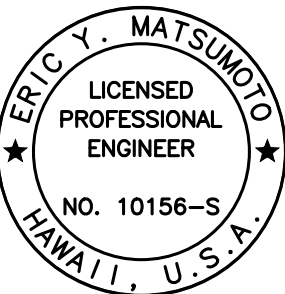
1. See Sheet S1.4 for NDT limits.
2. See Sheet S0.2, Note 4.H.

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



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  
**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

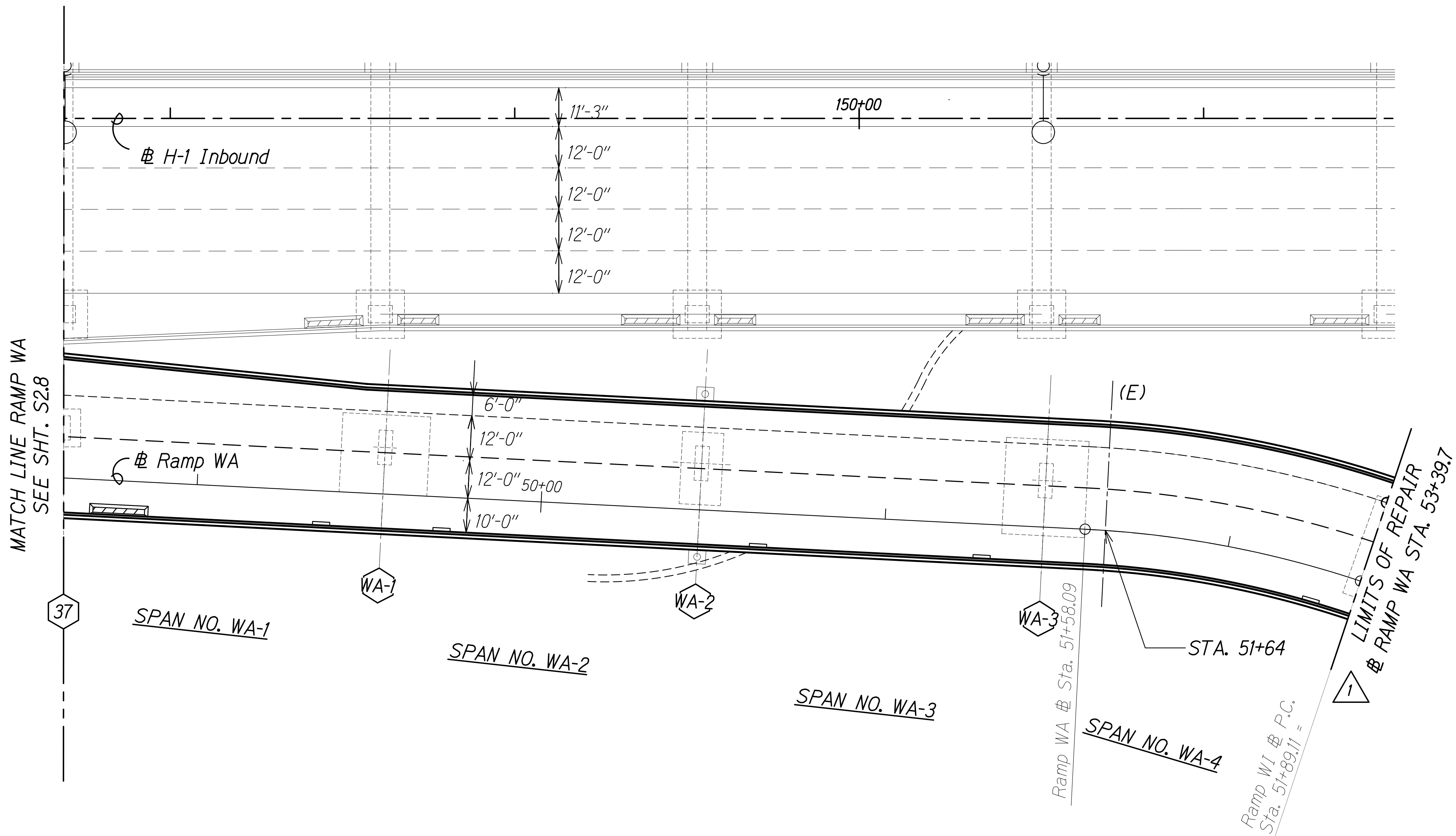
ADD. 189

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        |      |

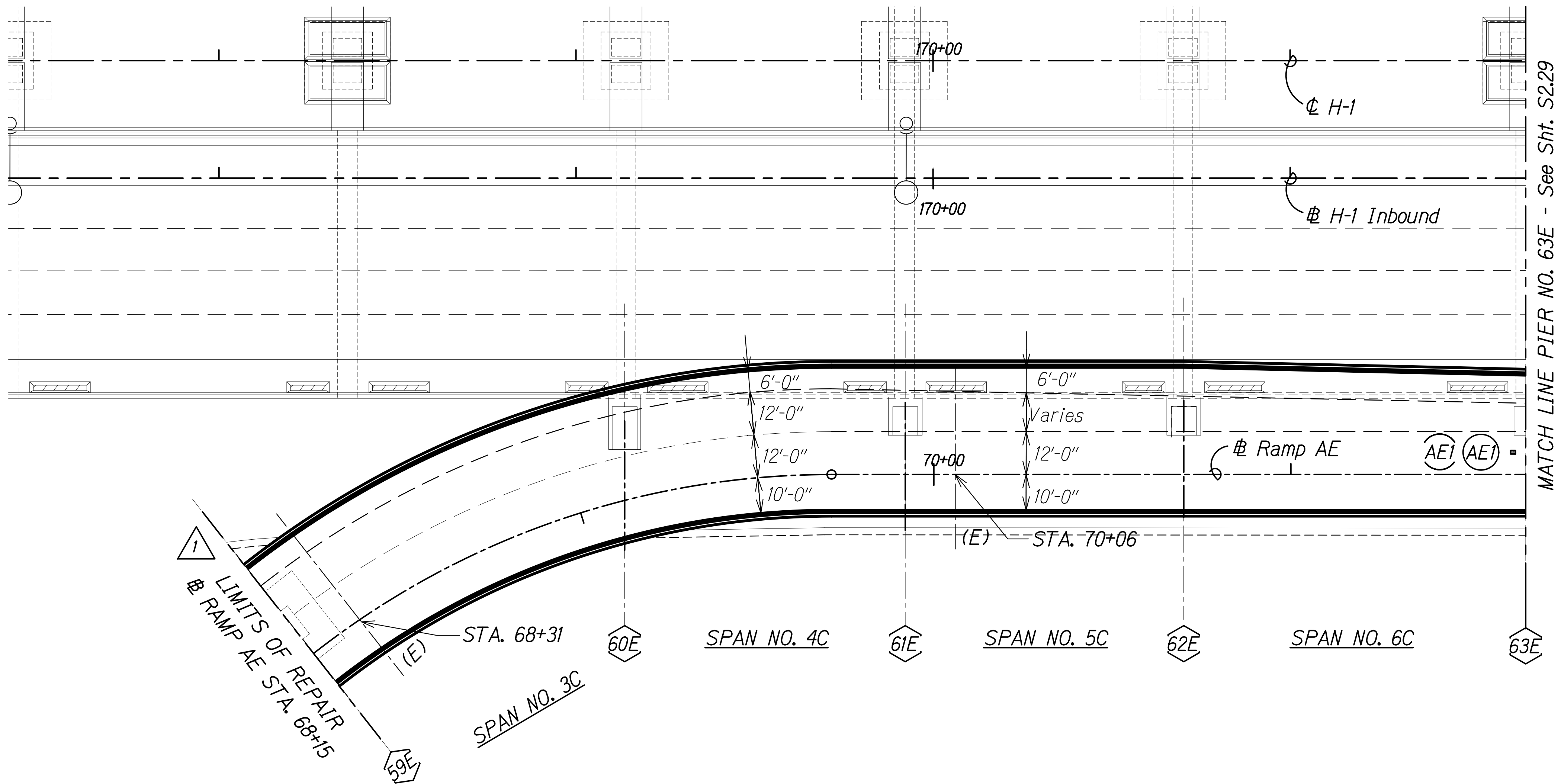
DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\10-28-20 ADD\AVR-S0227 CLIP3 RAMP PLAN ADD1.DWG PLOT TIME: 10-29-20, 4:46 PM)

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

ERIC Y. MATSUMOTO  
LICENSED PROFESSIONAL ENGINEER  
NO. 10156-S  
HAWAII, U.S.A.  
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<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>RAMP WA REPAIR PLAN</b><br><b>SPAN NO. WA-1 TO SPAN NO. WA-4</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b><br>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          |



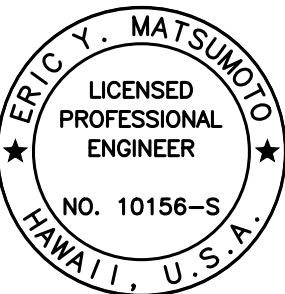
Notes:

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"

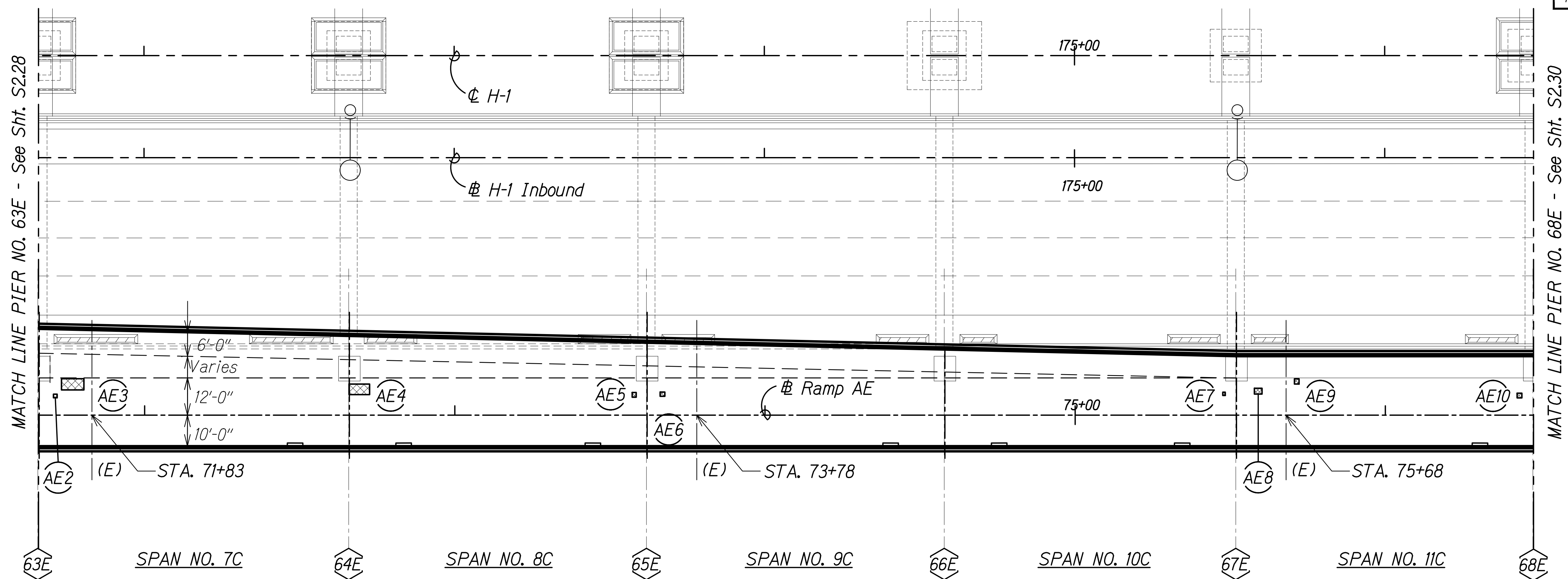


THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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

|                                                                                                                                                                                                                                                                                                                                                                                  |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 10/28/20                                                                                                                                                                                                                                                                                                                                                                         | 1 Add. 1 - Revised Notes |
| DATE                                                                                                                                                                                                                                                                                                                                                                             | REVISION                 |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>RAMP AE REPAIR PLAN</b><br><b>SPAN NO. 3C TO SPAN NO. 6C</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b><br>Scale: As Noted Date: Aug. 2020<br>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          |



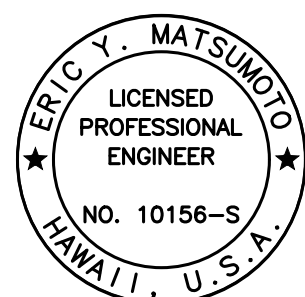
Notes:

- 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

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



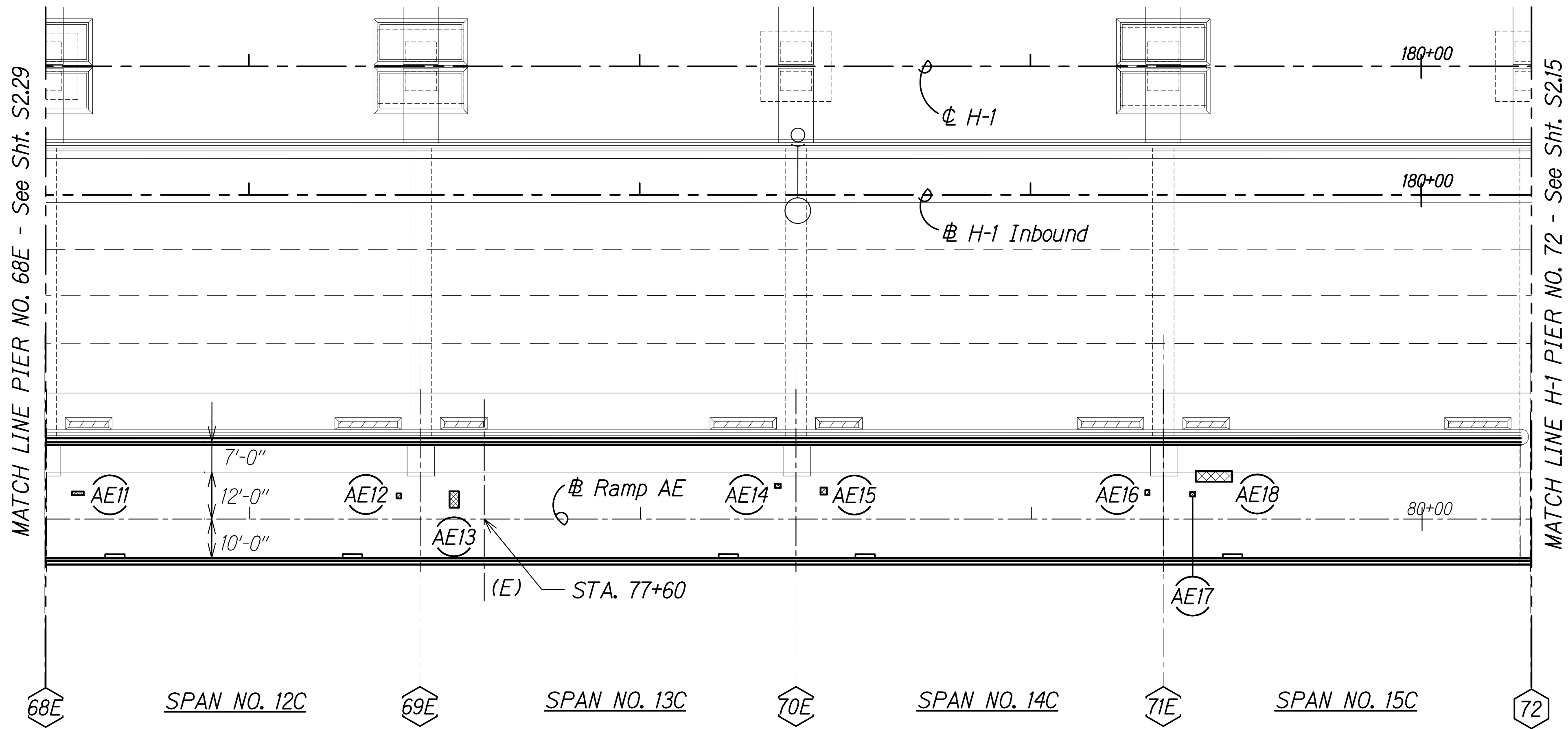
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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

|                                                                                                                                                                                                                                                                                                                                                   |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 10/28/20                                                                                                                                                                                                                                                                                                                                          | 1 Add. 1 - Revised Note |
| DATE                                                                                                                                                                                                                                                                                                                                              | REVISION                |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>RAMP AE REPAIR PLAN</b><br><b>SPAN NO. 7C TO SPAN NO. 11C</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b><br>Scale: As Noted Date: Aug. 2020 |                         |

SHEET No. S2.29 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. 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)

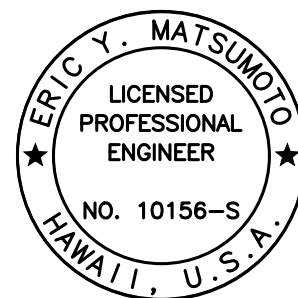
Repair Area

(E) Expansion Joint

(F) Fixed Joint

(H) Hinged Joint

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



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

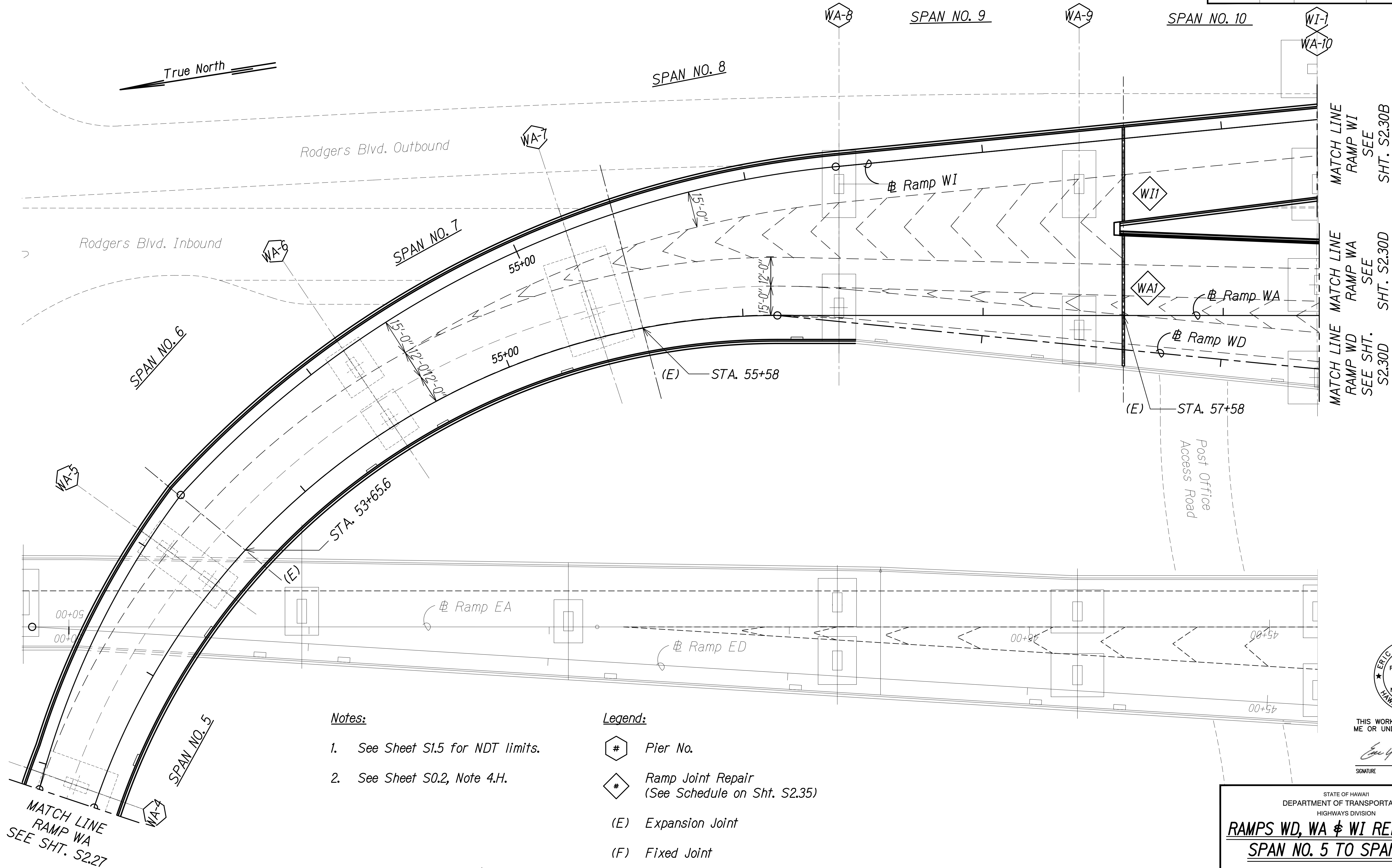
Signature: *Eric Y. Matsumoto*  
4-30-22  
SIGNATURE EXPIRATION DATE OF THE LICENSE

|                                                                                                                                                                                                                                                                                                                                                                                    |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 10/28/20                                                                                                                                                                                                                                                                                                                                                                           | 1 Add. 1 - Revised Note |
| DATE                                                                                                                                                                                                                                                                                                                                                                               | REVISION                |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>RAMP AE REPAIR PLAN</b><br><b>SPAN NO. 12C TO SPAN NO. 15C</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b><br>Scale: As Noted Date: Aug. 2020<br>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-10230A EWA RAMPS ADD.1.DWG PLOT TIME: 10-29-20, 4:48 PM

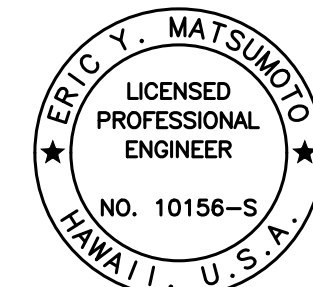
|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
|               | DESIGNED BY       |      |
|               | QUANTITIES BY     |      |
|               | CHECKED BY  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



- 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"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

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

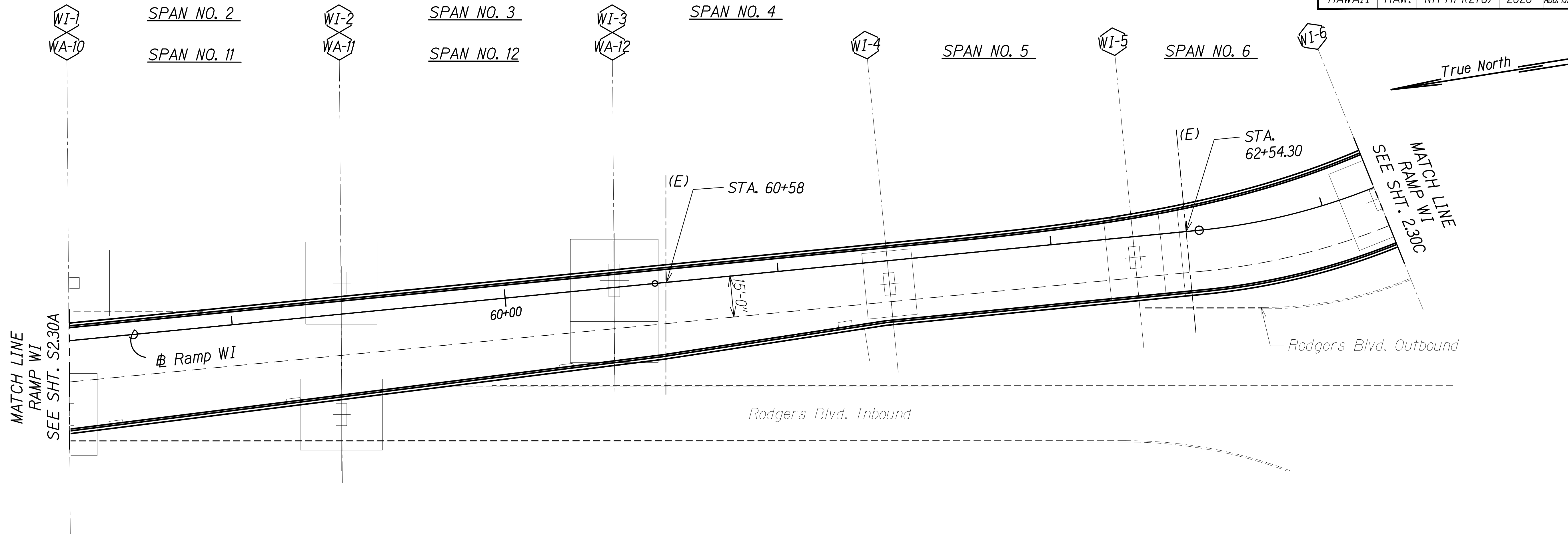
|          |          |                    |
|----------|----------|--------------------|
| 10/28/20 | 1        | Add. 1 - New Sheet |
| DATE     | REVISION |                    |

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

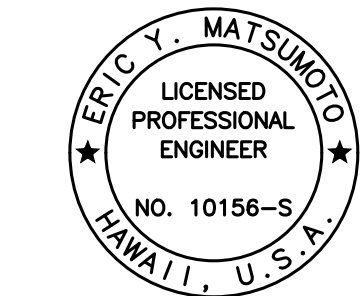
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO.   | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-------------|--------------|
| HAWAII              | HAW.  | NH-HI-1(276)          | 2020        | ADD. 193S-2 | 214          |



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



THIS WORK WAS PREPARED BY 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**

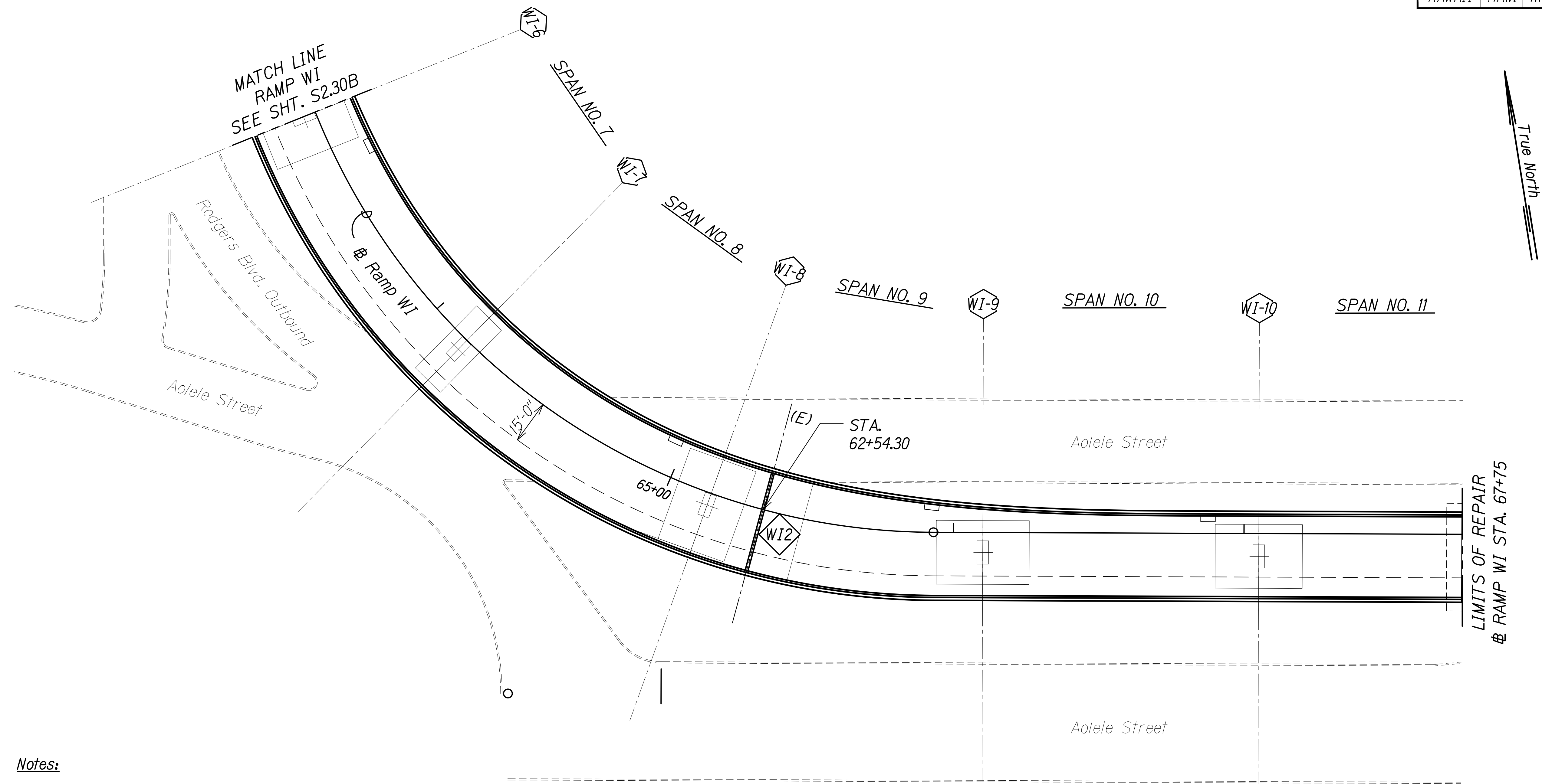
INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS  
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2  
FEDERAL-AID PROJECT NO. NH-HI-1(276)

Scale: As Noted      Date: Aug. 2020

SHEET No. S2.30B OF 34 SHEETS

|          |   |                    |
|----------|---|--------------------|
| 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          |



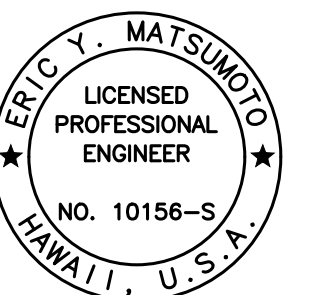
Notes:

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)**

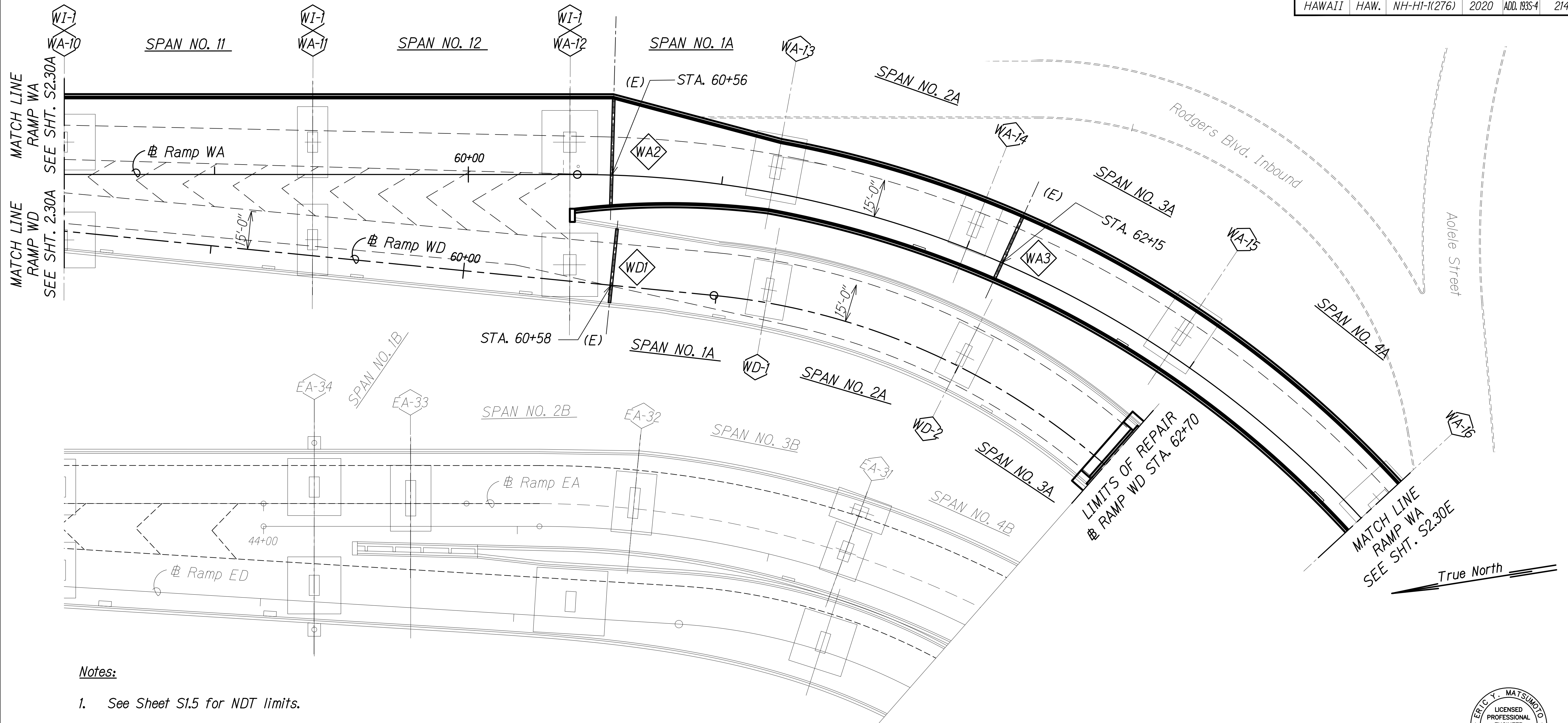
Scale: As Noted Date: Aug. 2020

SHEET No. S2.30C OF 34 SHEETS

**ADD. 193S-3**

|          |   |                    |
|----------|---|--------------------|
| 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-4 | 214          |



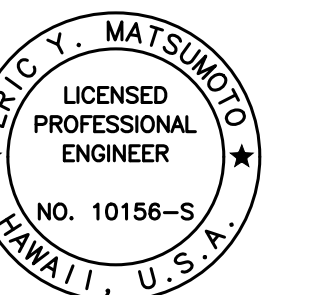
**Notes:**

- 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"



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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 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)**

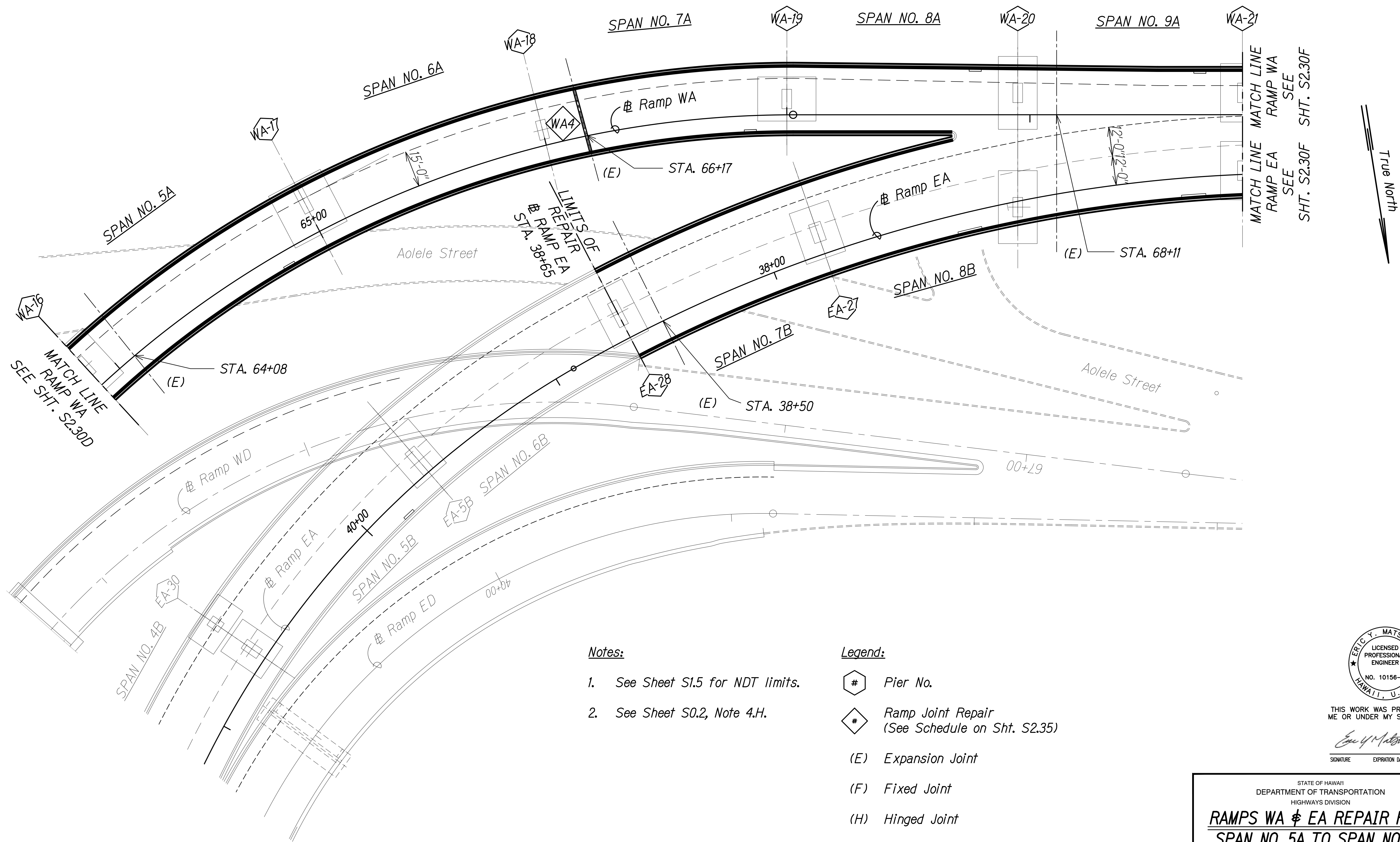
Scale: As Noted Date: Aug. 2020

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:**

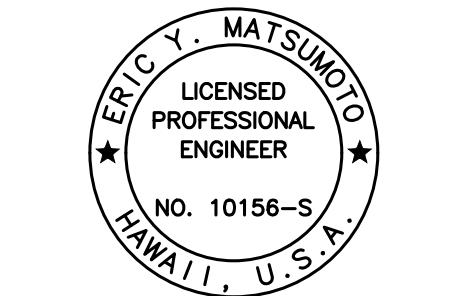
- See Sheet S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

**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           |



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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)**

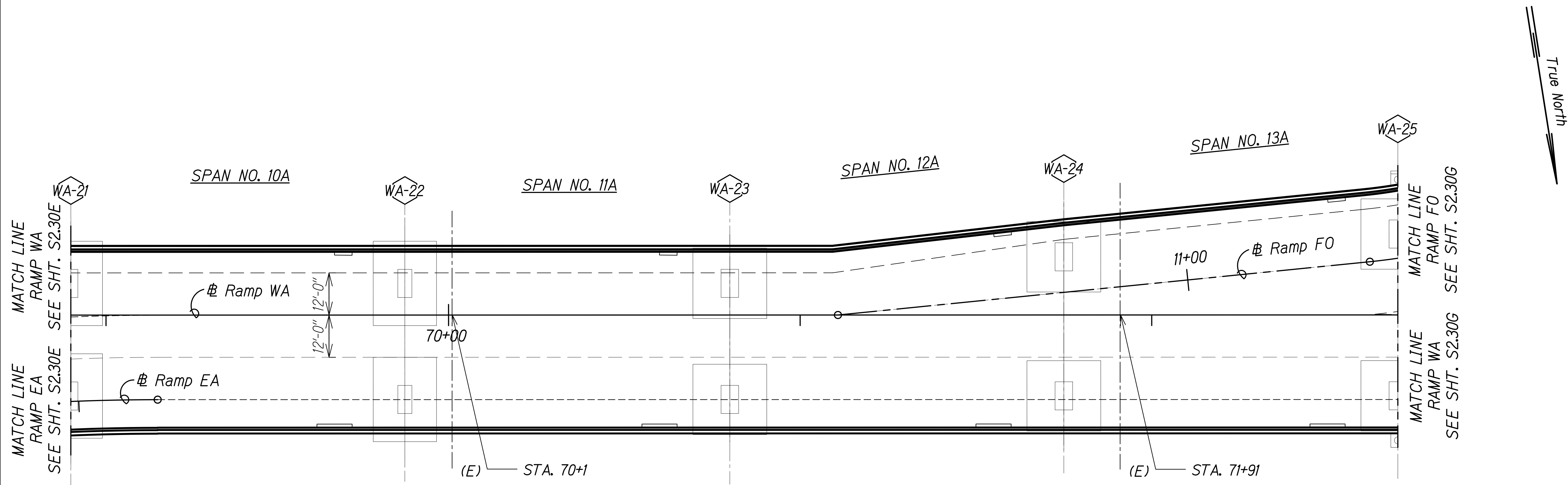
Scale: As Noted Date: Aug. 2020  
SHEET No. S2.30E OF 34 SHEETS

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          |



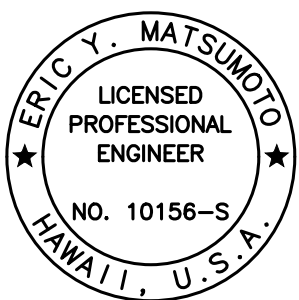
MAKAI RAMPS WA & FO  
SPAN NO. 10A TO SPAN NO. 13A  
Scale: 1" = 20'-0"

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



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. 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)**

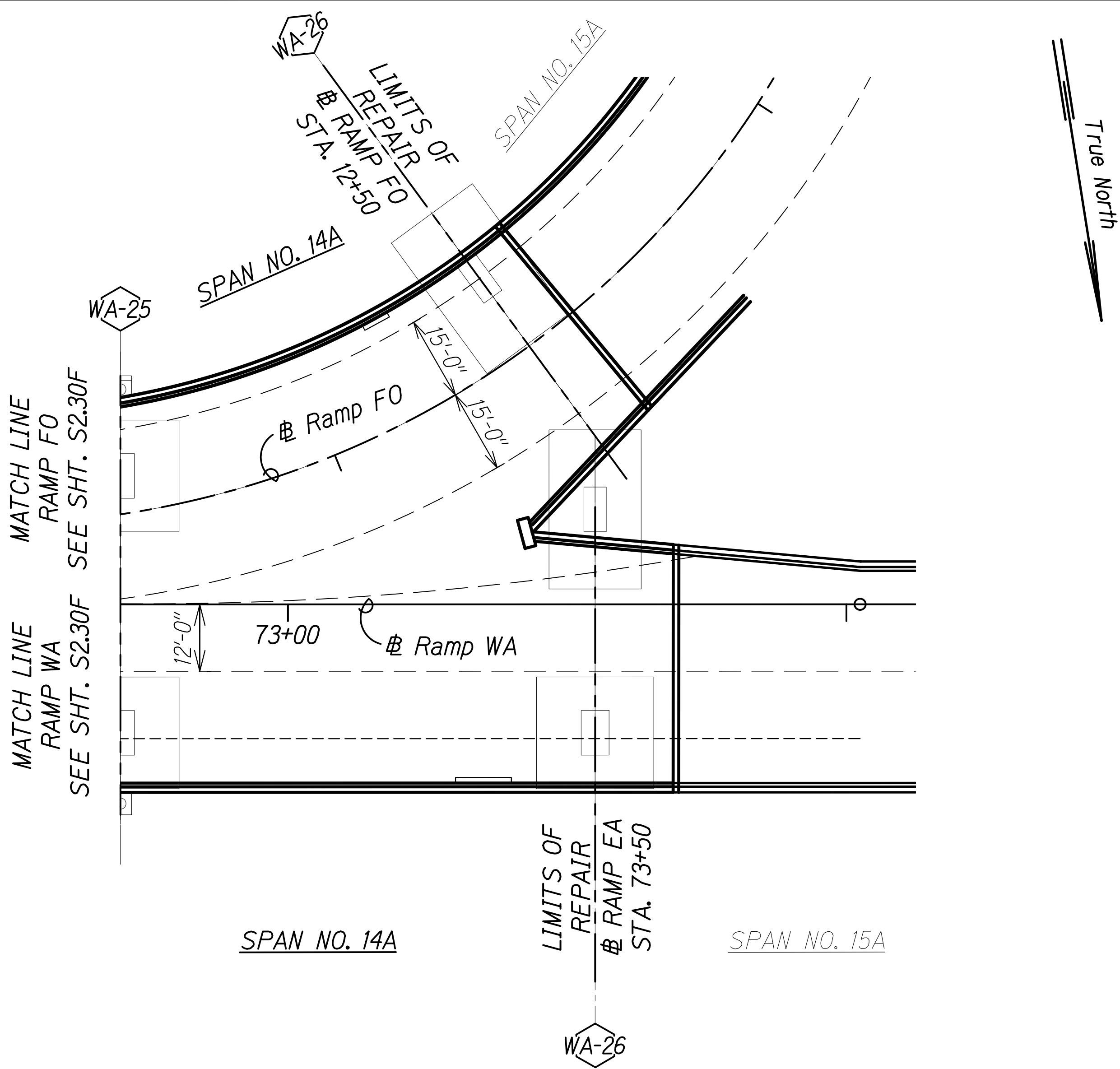
Scale: As Noted Date: Aug. 2020

SHEET No. S2.30F OF 34 SHEETS

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

ADD. 193S-6

| 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          |



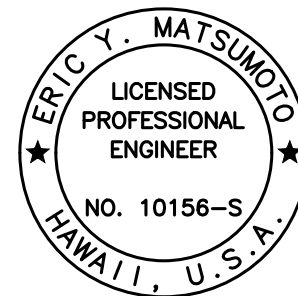
MAKAI RAMPS WA & FO  
SPAN NO. 14A  
Scale: 1" = 20'-0"

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(K276)         | 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

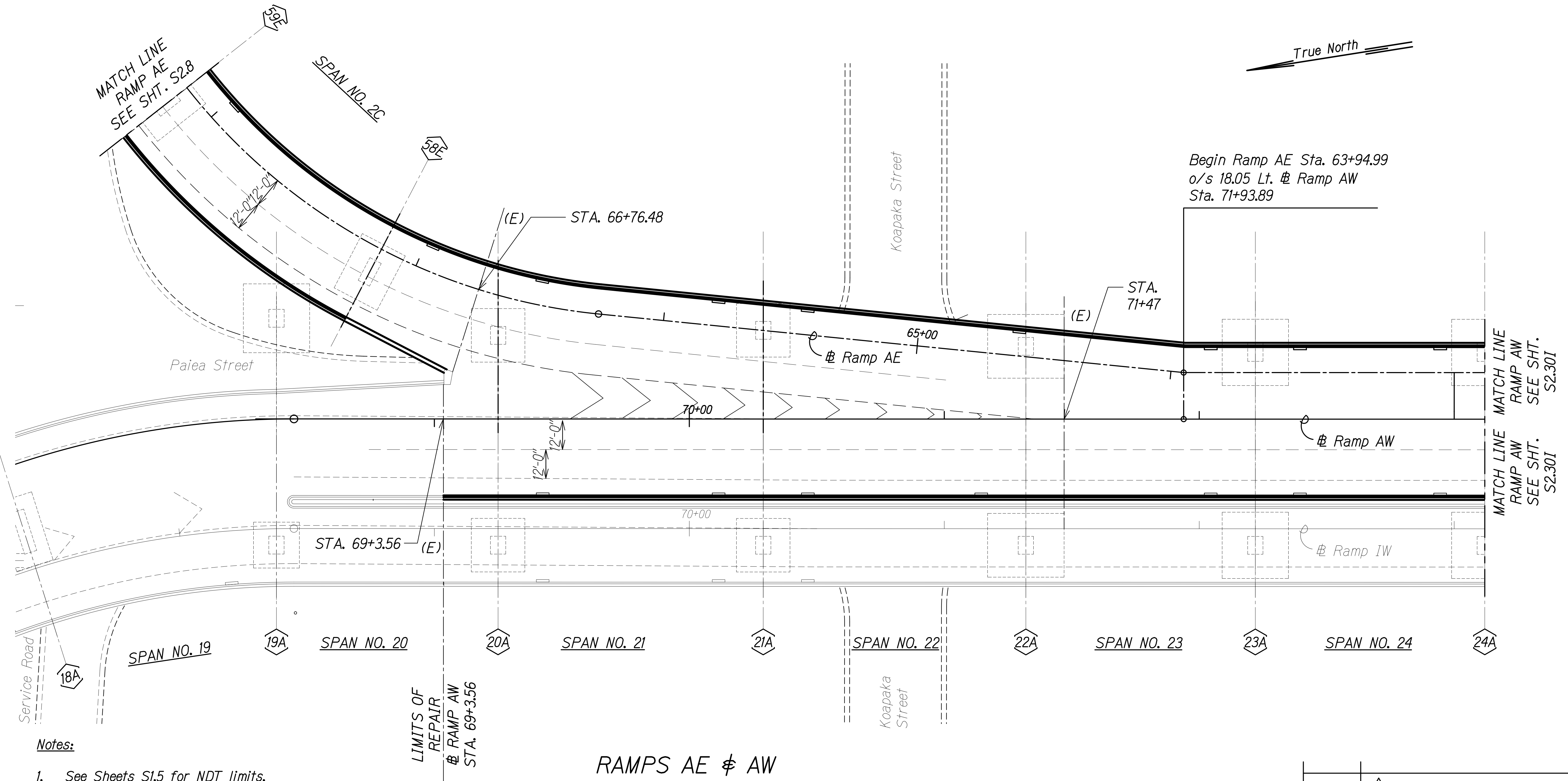
|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
| No.           | DESIGNED BY       |      |
|               | CHECKED BY        |      |

**Notes:**

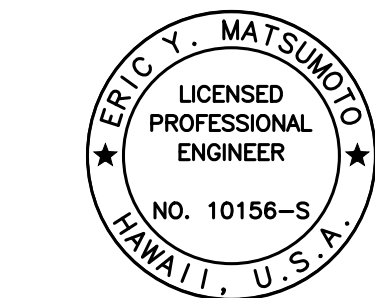
- See Sheets S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

**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"



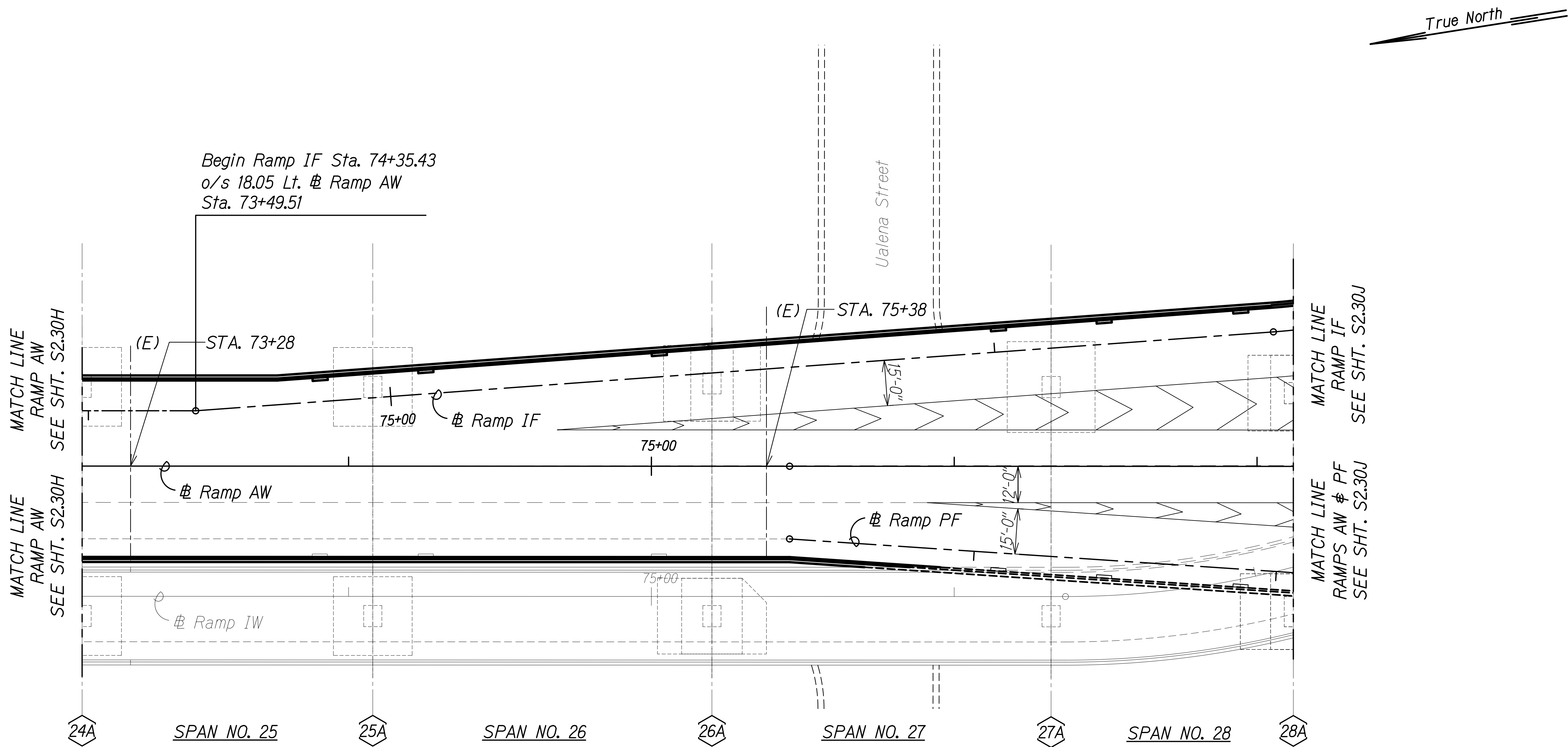
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

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

|                                                                                                                                                                                                                                                                                                                          |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 10/28/20                                                                                                                                                                                                                                                                                                                 | 1 Add. 1 - New Sheet |
| DATE                                                                                                                                                                                                                                                                                                                     | REVISION             |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>RAMPS AE &amp; AW REPAIR PLAN</b><br><b>SPAN NO. 20 TO SPAN NO. 24</b><br><b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(K276)</b> |                      |
| 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:

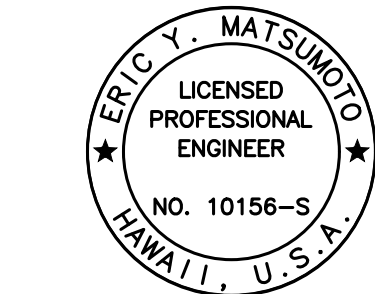
- See Sheets S1.5 for NDT limits.
- See Sheet S0.2, Note 4.H.

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



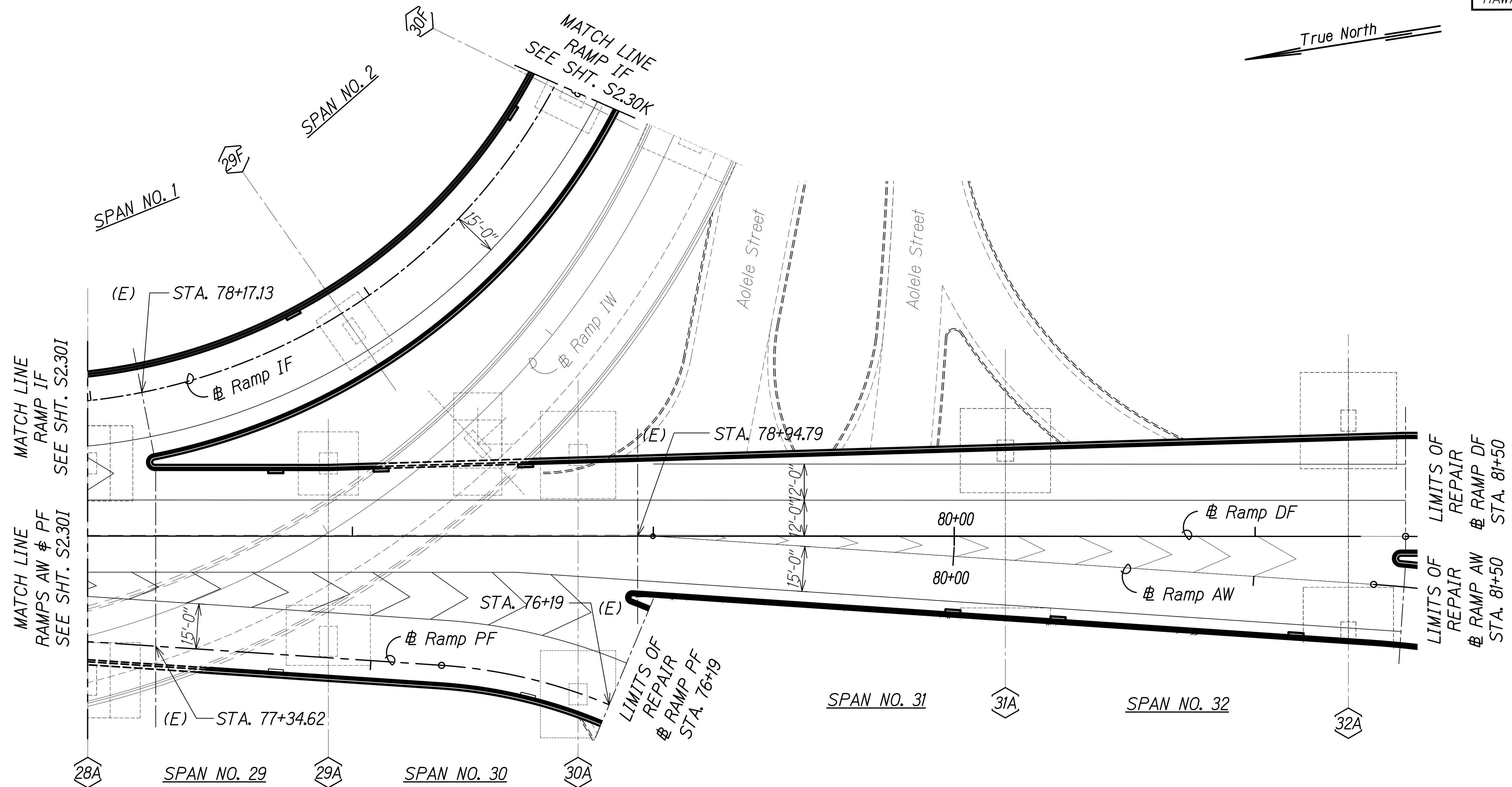
THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.

Signature: Eric Y. Matsumoto  
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.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"

|               |                   |      |
|---------------|-------------------|------|
| 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.193S-10-28-20 DHEAD RAMPS ADD.1.DWG PLOT TIME: 10-29-20 4:58 PM

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

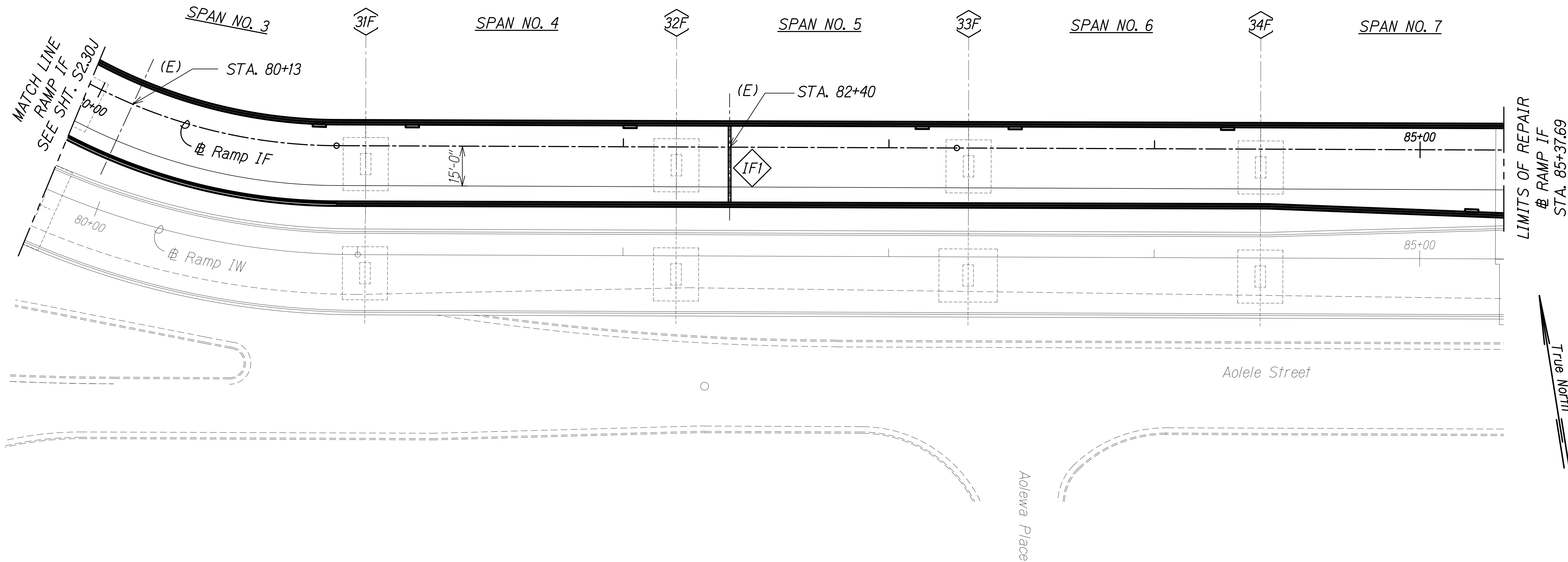
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

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

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

ADD. 193S-10

| 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*  
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

**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<br>DIST. NO. | STATE | FEDERAL AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAW.  | NH-HI-1(276)             | 2020           | 194          | 214             |

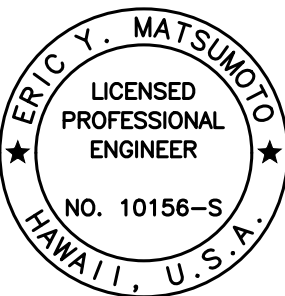
| IB DECK REPAIR SCHEDULE |          |               |           |
|-------------------------|----------|---------------|-----------|
| ITEM NO.                | SPAN NO. | REPAIR DETAIL | AREA (SF) |
| I11                     | 25       |               | 20        |
| I12                     | 25       |               | 20        |
| I13                     | 25       |               | 65        |
| I14                     | 25       |               | 15        |
| I15                     | 26       |               | 10        |
| I16                     | 26       |               | 75        |
| I17                     | 26       |               | 45        |
| I18                     | 27       |               | 60        |
| I19                     | 30       |               | 45        |
| I110                    | 33       |               | 20        |
| I111                    | 33       |               | 40        |
| I112                    | 35       |               | 170       |
| I113                    | 35       |               | 30        |
| I114                    | 35       |               | 10        |
| I115                    | 35       |               | 2         |
| I116                    | 35       |               | 10        |
| I117                    | 35       |               | 45        |
| I118                    | 35       |               | 5         |
| I119                    | 36       |               | 10        |
| I120                    | 36       |               | 10        |

| IB DECK REPAIR SCHEDULE |          |               |           |
|-------------------------|----------|---------------|-----------|
| ITEM NO.                | SPAN NO. | REPAIR DETAIL | AREA (SF) |
| I121                    | 36       |               | 5         |
| I122                    | 36       |               | 10        |
| I123                    | 36       |               | 10        |
| I124                    | 37       |               | 5         |
| I125                    | 37       |               | 5         |
| I126                    | 37       |               | 15        |
| I127                    | 37       |               | 10        |
| I128                    | 37       |               | 50        |
| I129                    | 37       |               | 5         |
| I130                    | 38       |               | 5         |
| I131                    | 38       |               | 5         |
| I132                    | 38       |               | 5         |
| I133                    | 39       |               | 15        |
| I134                    | 39       |               | 35        |
| I135                    | 39       |               | 10        |
| I136                    | 39       |               | 250       |
| I137                    | 40       |               | 15        |
| I138                    | 41       |               | 20        |
| I139                    | 41       |               | 30        |
| I140                    | 42       |               | 5         |

| IB DECK REPAIR SCHEDULE |          |               |           |
|-------------------------|----------|---------------|-----------|
| ITEM NO.                | SPAN NO. | REPAIR DETAIL | AREA (SF) |
| I141                    | 42       |               | 25        |
| I142                    | 43       |               | 15        |
| I143                    | 43       |               | 30        |
| I144                    | 43       |               | 20        |
| I145                    | 43       |               | 10        |
| I146                    | 43       |               | 15        |
| I147                    | 43       |               | 15        |
| I148                    | 44       |               | 35        |
| I149                    | 44       |               | 10        |
| I150                    | 43       |               | 5         |
| I151                    | 44       |               | 10        |
| I152                    | 44       |               | 20        |
| I153                    | 44       |               | 20        |
| I154                    | 44       |               | 50        |
| I155                    | 45       |               | 2         |
| I156                    | 45       |               | 10        |
| I157                    | 45       |               | 20        |
| I158                    | 45       |               | 10        |
| I159                    | 45       |               | 10        |
| I160                    | 46       |               | 45        |

|                  |                   |      |
|------------------|-------------------|------|
| ORIGINAL<br>PLAN | SURVEY PLOTTED BY | DATE |
|                  | DRAWN BY          |      |
|                  | DESIGNED BY       |      |
|                  | QUANTITIES BY     |      |
| NOTE BOOK        | CHECKED BY        |      |
|                  | No.               |      |

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\9-08-20 RVSD TSHT & SHCCT\AVR-S0231.RPP.TBL CLIP 1.DWG PLOT TIME: 09-08-20, 9:10 AM



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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**IB DECK 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. S2.31 OF 34 SHEETS

|                        |       |                          |                |              |                 |
|------------------------|-------|--------------------------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE | FEDERAL AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAW.  | NH-HI-1(276)             | 2020           | 195          | 214             |

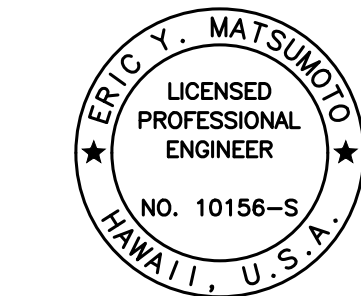
| IB DECK REPAIR SCHEDULE |          |               |           |
|-------------------------|----------|---------------|-----------|
| ITEM NO.                | SPAN NO. | REPAIR DETAIL | AREA (SF) |
| I61                     | 46       |               | 30        |
| I62                     | 46       |               | 210       |
| I63                     | 48       |               | 5         |
| I64                     | 48       |               | 5         |
| I65                     | 50       |               | 10        |
| I66                     | 51       |               | 15        |
| I67                     | 51       |               | 10        |
| I68                     | 51       |               | 15        |
| I69                     | 52       |               | 2         |
| I70                     | 53       |               | 5         |
| I71                     | 54       |               | 5         |
| I72                     | 55       |               | 20        |
| I73                     | 58       |               | 15        |
| I74                     | 60       |               | 5         |
| I75                     | 61       |               | 2         |
| I76                     | 61       |               | 10        |
| I77                     | 60       |               | 5         |
| I78                     | 62       |               | 15        |
| I79                     | 62       |               | 5         |
| I80                     | 63       |               | 10        |

| IB DECK REPAIR SCHEDULE |          |               |           |
|-------------------------|----------|---------------|-----------|
| ITEM NO.                | SPAN NO. | REPAIR DETAIL | AREA (SF) |
| I81                     | 63       |               | 15        |
| I82                     | 65       |               | 5         |
| I83                     | 66       |               | 20        |
| I84                     | 72       |               | 140       |
| I85                     | 72       |               | 225       |
| I86                     | 72       |               | 20        |
| I87                     | 73       |               | 10        |
| I88                     | 73       |               | 2         |
| I89                     | 73       |               | 80        |
| I90                     | 73       |               | 55        |
| I91                     | 73       |               | 100       |
| I92                     | 75       |               | 815       |
| I93                     | 75       |               | 430       |
| I94                     | 80       |               | 2         |
| I95                     | 80       |               | 5         |
| I96                     | 81       |               | 10        |
| I97                     | 83       |               | 60        |
| I98                     | 84       |               | 10        |
| I99                     | 86       |               | 10        |
| I100                    | 88       |               | 5         |

| IB DECK REPAIR SCHEDULE |          |               |           |
|-------------------------|----------|---------------|-----------|
| ITEM NO.                | SPAN NO. | REPAIR DETAIL | AREA (SF) |
| I101                    | 88       |               | 2         |
| I102                    | 89       |               | 150       |
| I103                    | 90       |               | 10        |
| I104                    | 90       |               | 2         |
| I105                    | Pier 91  |               | 30        |
| I106                    | 93       |               | 110       |
| I107                    | 93       |               | 100       |
| I108                    | 94       |               | 2         |
| I109                    | 94       |               | 35        |
| I110                    | 94       |               | 10        |
| I111                    | 94       |               | 2         |
| I112                    | 95       |               | 25        |
| I113                    | 96       |               | 215       |
| I114                    | 97       |               | 30        |
| I115                    | 100      |               | 2         |
| I116                    | K1       |               | 20        |
| I117                    | K4       |               | 2         |
| I118                    | K4       |               | 2         |
| I119                    | K4       |               | 2         |
| I120                    | K4       |               | 2         |

|                  |                         |            |
|------------------|-------------------------|------------|
| ORIGINAL<br>PLAN | SURVEY PLOTTED BY _____ | DATE _____ |
|                  | DRAWN BY _____          | _____      |
|                  | DESIGNED BY _____       | _____      |
|                  | QUANTITIES BY _____     | _____      |
| NOTE BOOK        | CHECKED BY _____        | _____      |
| No. _____        |                         |            |

DRAWING NAME: Z:\00 ONGOING\19-009.8-AIRPORT VIADUCT IMPROVEMENTS\01 CAD\9-08-20 RVSD TSHT & SHC\A\VR-S0231.RPP.TBL CLIP 1.DWG PLOT TIME: 09-08-20, 9:10 AM



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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

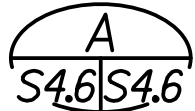
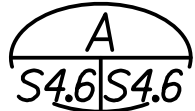
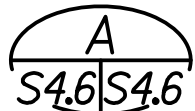
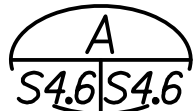
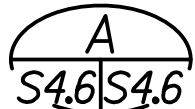
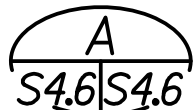
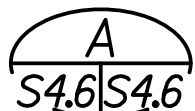
**IB DECK REPAIR SCHEDULES**

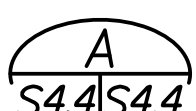
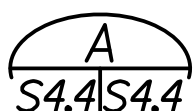
**INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS  
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2  
FEDERAL-AID PROJECT NO. NH-HI-1(276)**

Scale: None Date: Aug. 2020

SHEET No. S2.32 OF 34 SHEETS

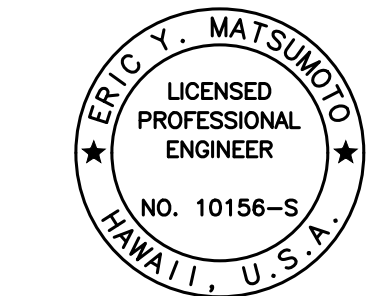
|                        |       |                          |                |              |                 |
|------------------------|-------|--------------------------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE | FEDERAL AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAW.  | NH-HI-1(276)             | 2020           | 196          | 214             |

| IB DECK REPAIR SCHEDULE |          |                                                                                     |           |
|-------------------------|----------|-------------------------------------------------------------------------------------|-----------|
| ITEM NO.                | SPAN NO. | REPAIR DETAIL                                                                       | AREA (SF) |
| I121                    | Pier K5  |    | 10        |
| I122                    | K5       |    | 5         |
| I123                    | Pier K6  |    | 20        |
| I124                    | K10      |    | 2         |
| I125                    | K10      |    | 135       |
| I126                    | K10      |    | 20        |
| I127                    | K10      |    | 10        |
| I128                    | K10      |    | 40        |
| I129                    | K10      |   | 120       |
| I130                    | K10      |  | 50        |
| I131                    | K10      |  | 45        |
| I132                    | K10      |  | 210       |
| Total SF                |          |                                                                                     | 5437      |

| IB JOINT REPAIR SCHEDULE |                      |                                                                                     |             |
|--------------------------|----------------------|-------------------------------------------------------------------------------------|-------------|
| ITEM NO.                 | PIER NO. & DIRECTION | REPAIR DETAIL                                                                       | LENGTH (FT) |
| IB1                      | K1 - Ewa             |  | 95          |
| IB2                      | K1 - Hon.            |  | 43          |
| IB3                      | K2 - Ewa             |  | 97          |
| IB4                      | K3 - Ewa             |  | 97          |
| IB5                      | K4 - Ewa             |  | 7           |
| Total Length (ft.)       |                      |                                                                                     | 339         |

|               |                   |      |
|---------------|-------------------|------|
| 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\9-08-20 RVSD TSHT & SHCCT\AVR-S0231 RPR TBL CLIP 1.DWG PLOT TIME: 09-08-20, 9:10 AM



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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**IB DECK 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. S2.33 OF 34 SHEETS

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

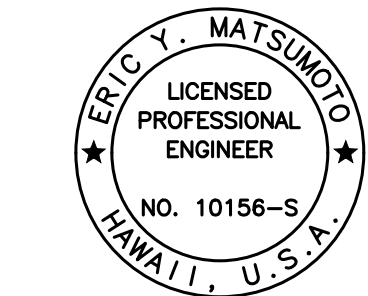
| RAMP WA DECK REPAIR SCHED. |               |               |           |
|----------------------------|---------------|---------------|-----------|
| ITEM NO.                   | RAMP SPAN NO. | REPAIR DETAIL | AREA (SF) |
| WA1                        | 32            |               | 25        |
| WA2                        | 33            |               | 35        |
| WA3                        | 34            |               | 20        |
| WA4                        | 34            |               | 10        |
| WA5                        | 35            |               | 100       |
| WA6                        | 35            |               | 20        |
| WA7                        | 35            |               | 140       |
| WA8                        | 35            |               | 5         |
| WA9                        | 36            |               | 15        |
| WA10                       | 36            |               | 45        |
| WA11                       | 36            |               | 50        |
| WA12                       | 36            |               | 25        |
| WA13                       | 36            |               | 5         |
| WA14                       | 36            |               | 5         |
| Total SF                   |               |               | 500       |

| RAMP AE DECK REPAIR SCHED. |               |               |           |
|----------------------------|---------------|---------------|-----------|
| ITEM NO.                   | RAMP SPAN NO. | REPAIR DETAIL | AREA (SF) |
| AE1                        | 6C            |               | 2         |
| AE2                        | 7C            |               | 2         |
| AE3                        | 7C            |               | 25        |
| AE4                        | 8C            |               | 20        |
| AE5                        | 8C            |               | 2         |
| AE6                        | 9C            |               | 2         |
| AE7                        | 10C           |               | 2         |
| AE8                        | 11C           |               | 5         |
| AE9                        | 11C           |               | 2         |
| AE10                       | 11C           |               | 2         |
| AE11                       | 12C           |               | 2         |
| AE12                       | 12C           |               | 2         |
| AE13                       | 13C           |               | 10        |
| AE14                       | 13C           |               | 2         |
| AE15                       | 14C           |               | 2         |
| AE16                       | 14C           |               | 2         |
| AE17                       | 15C           |               | 2         |
| AE18                       | 15C           |               | 25        |
| AE19                       | 74            |               | 415       |
| AE20                       | 75            |               | 350       |

| RAMP AE DECK REPAIR SCHED. |               |               |           |
|----------------------------|---------------|---------------|-----------|
| ITEM NO.                   | RAMP SPAN NO. | REPAIR DETAIL | AREA (SF) |
| AE21                       | 76            |               | 10        |
| AE22                       | 83            |               | 35        |
| AE23                       | 85            |               | 20        |
| Total SF                   |               |               | 939       |

|                  |                   |      |
|------------------|-------------------|------|
| ORIGINAL<br>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\9-08-20 RVSD TSHT & SHICT\AVR-S0231.RPP TBL CLIP 1.DWG PLOT TIME: 09-08-20, 9:10 AM



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SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**RAMPS WA & AE**  
**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. S2.34 OF 34 SHEETS

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

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

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

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

|                  |                   |      |
|------------------|-------------------|------|
| ORIGINAL<br>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\AVR-50235 RPR TBL RAMP5 ADD1.DWG PLOT TIME: 10-29-20, 5:01 PM)

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

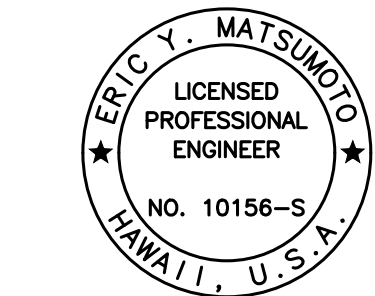
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**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: NoneDate: Aug. 2020

SHEET No. S2.35 OF 34 SHEETS

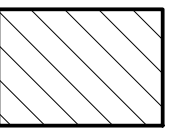


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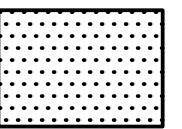
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

| 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:



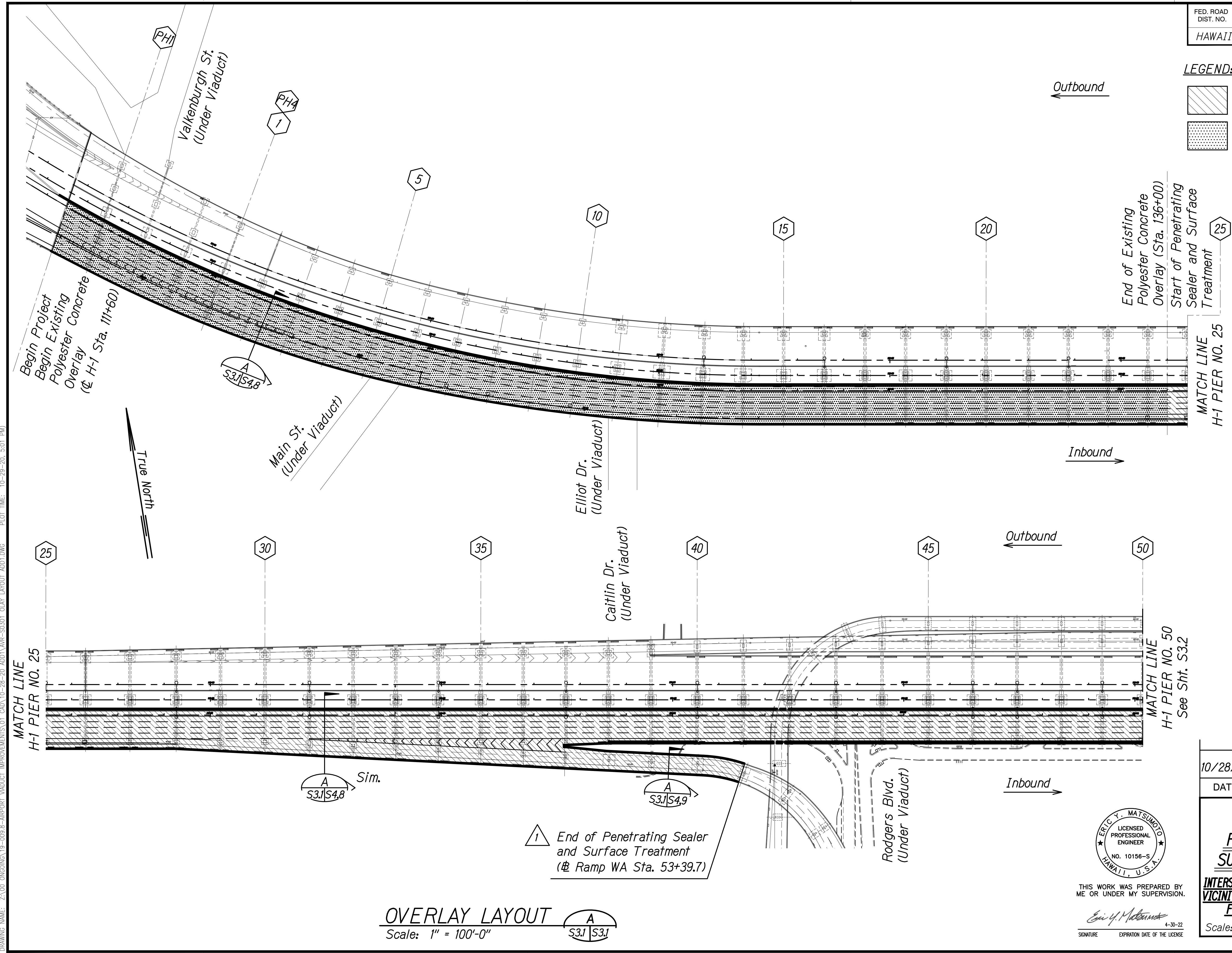
Penetrating Sealer and Surface Treatment



Existing Polyester Concrete Overlay

Note:

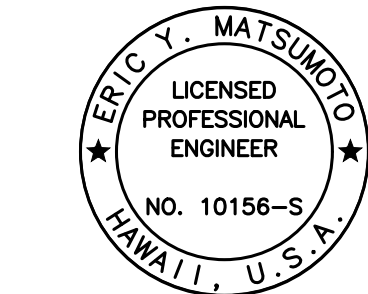
Surface Treatment shall be applied over Penetrating Sealer.



|               |                   |      |
|---------------|-------------------|------|
| 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"

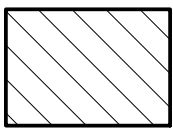


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SIGNATURE EXPIRATION DATE OF THE LICENSE

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

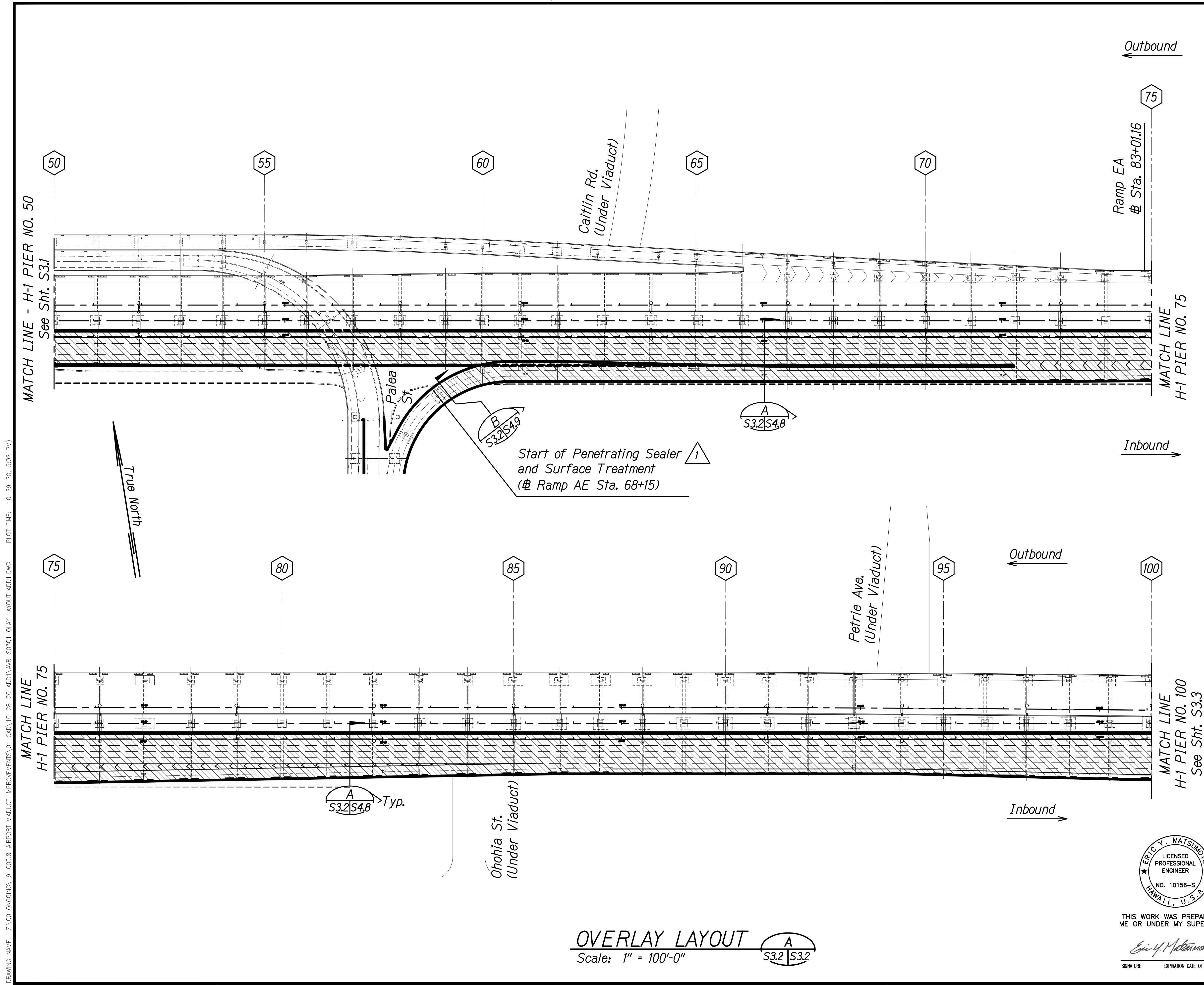
LEGEND:



Penetrating Sealer and Surface Treatment

Note:

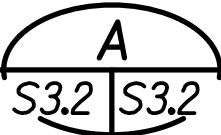
Surface Treatment shall be applied over Penetrating Sealer.



|               |                   |      |
|---------------|-------------------|------|
| 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\AVR-S0301 OLAY LAYOUT ADD1.DWG PLOT TIME: 10-29-20, 5:02 PM

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



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

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

ADD.199

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

LEGEND:



Penetrating Sealer and Surface Treatment

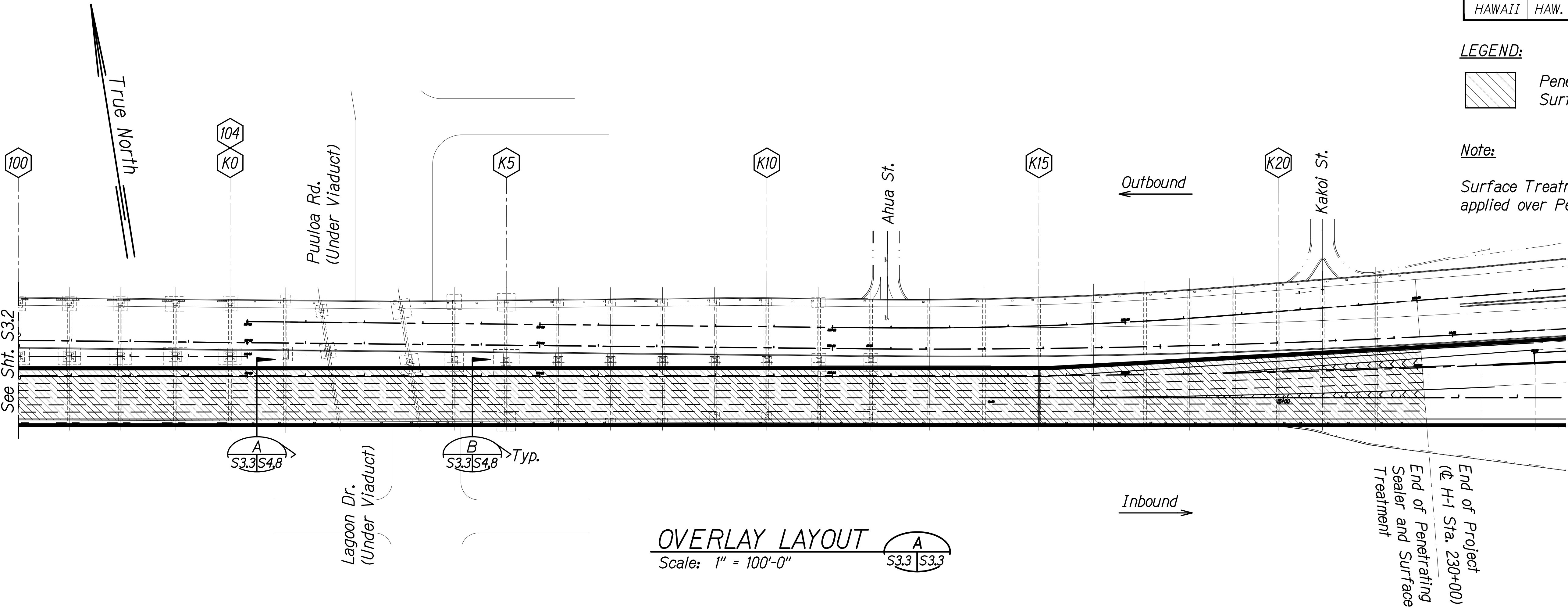
Note:

Surface Treatment shall be applied over Penetrating Sealer.

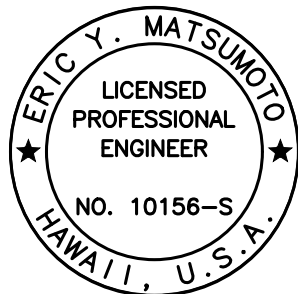
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|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
| No.           | DESIGNED BY       |      |
|               | QUANTITIES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

MATCH LINE - H-1 PIER NO. 100  
See Sht. S3.2



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



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

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

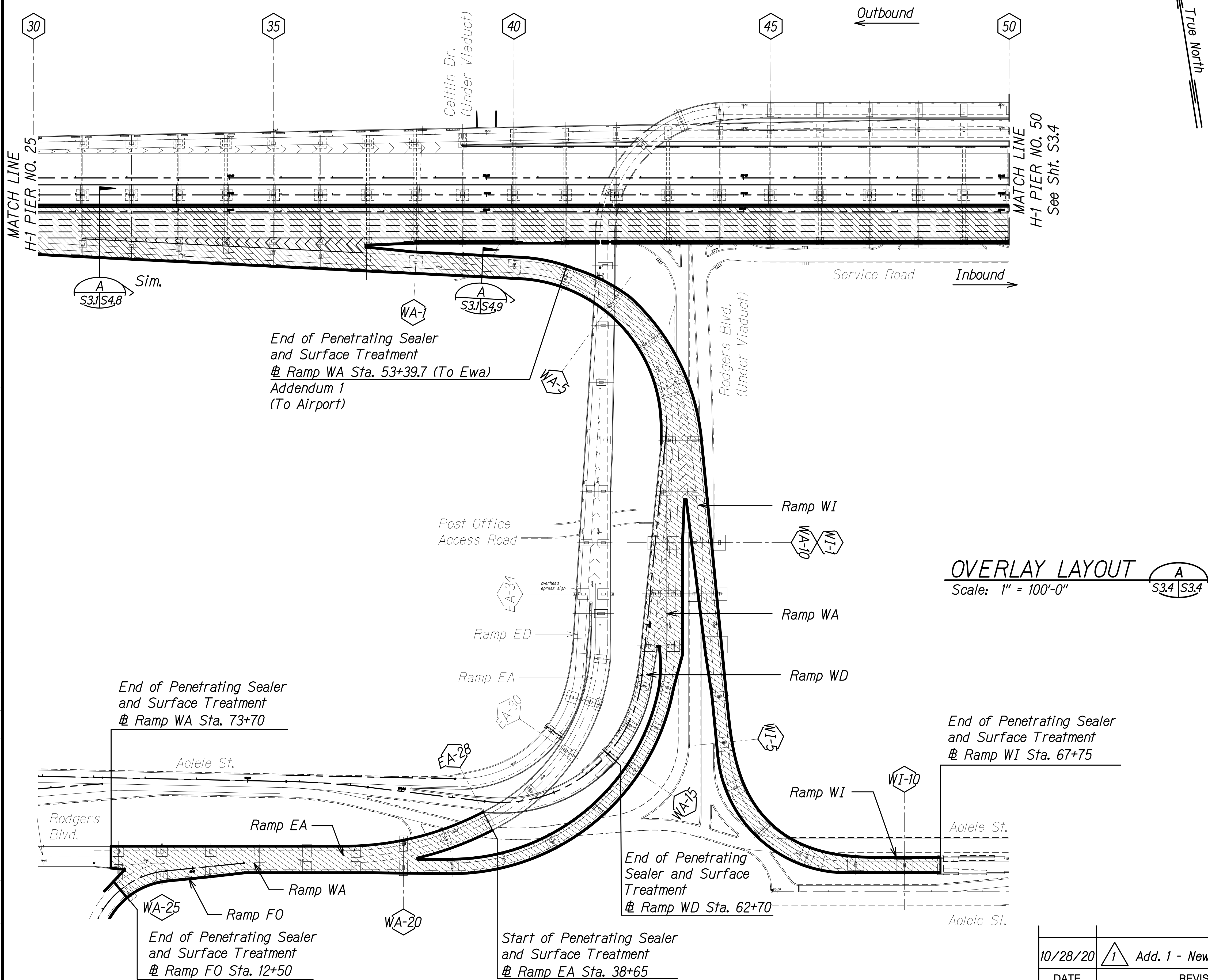
SHEET No. S3.3 OF 3 SHEETS

| 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          |

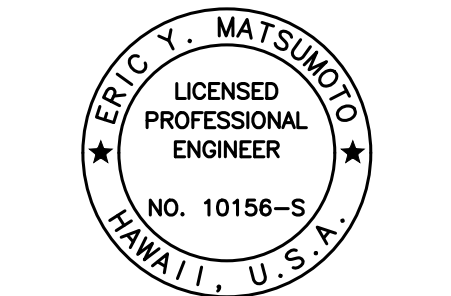
- LEGEND:**
- Penetrating Sealer and Surface Treatment
  - Existing Polyester Concrete Overlay

**Note:**

Surface Treatment shall be applied over Penetrating Sealer.



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



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*Eric Y. Matsumoto*  
SIGNATURE 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

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

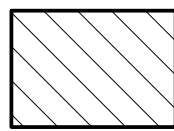
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|          |          |                    |
|----------|----------|--------------------|
| 10/28/20 | 1        | ADD. 1 - New Sheet |
| DATE     | REVISION |                    |

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO.   | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-------------|--------------|
| HAWAII              | HAW.  | NH-HI-1(K276)         | 2020        | ADD. 200S-2 | 214          |



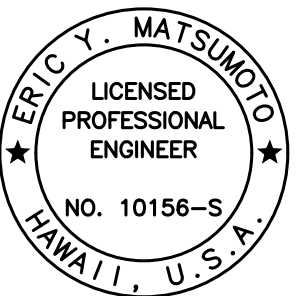
LEGEND:



Penetrating Sealer and Surface Treatment

Note:

Surface Treatment shall be applied over Penetrating Sealer.



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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(K276)

Scale: As Noted      Date: Aug. 2020

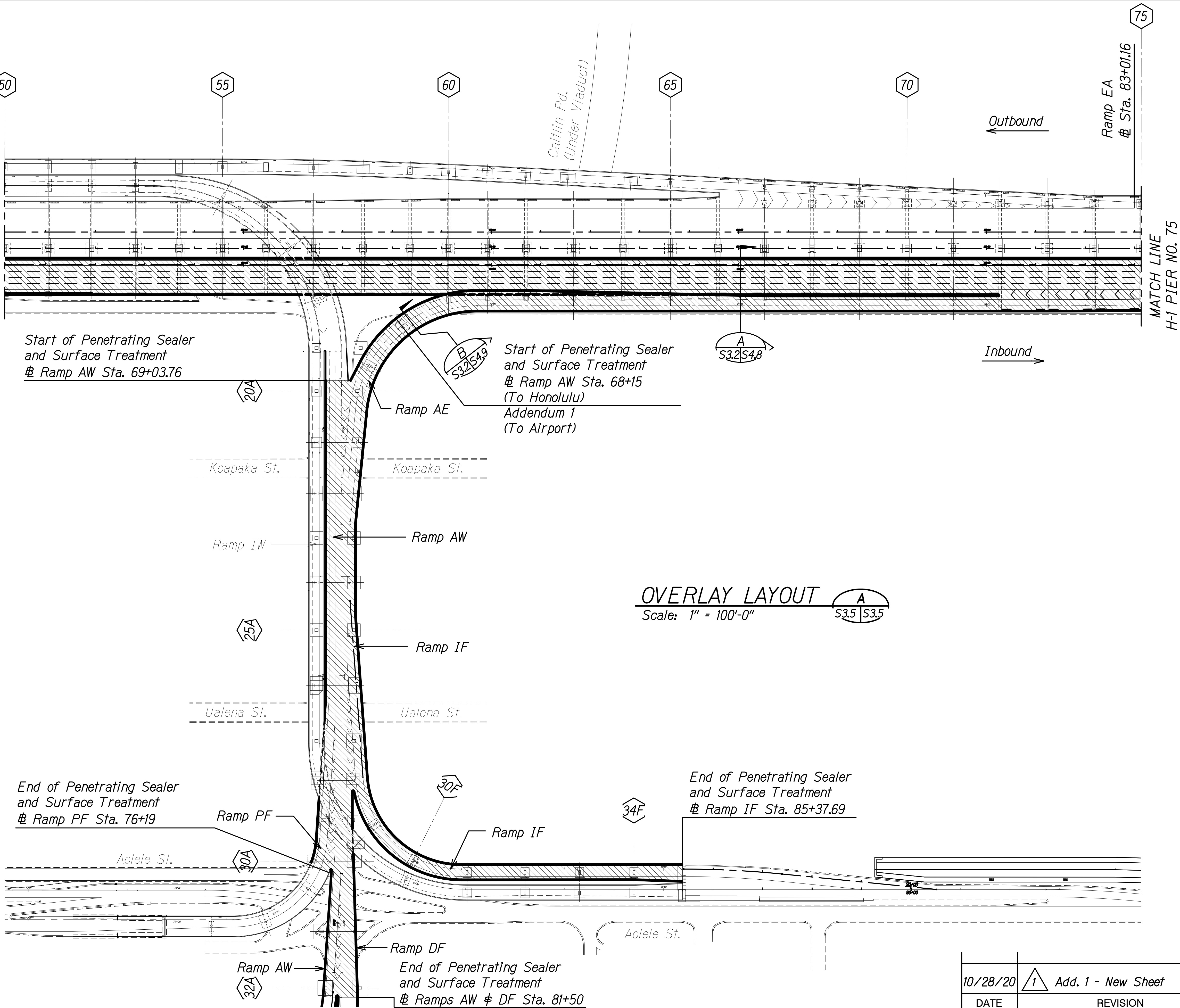
SHEET No. S3.5 OF 3 SHEETS

ADD. 200S-2

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

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

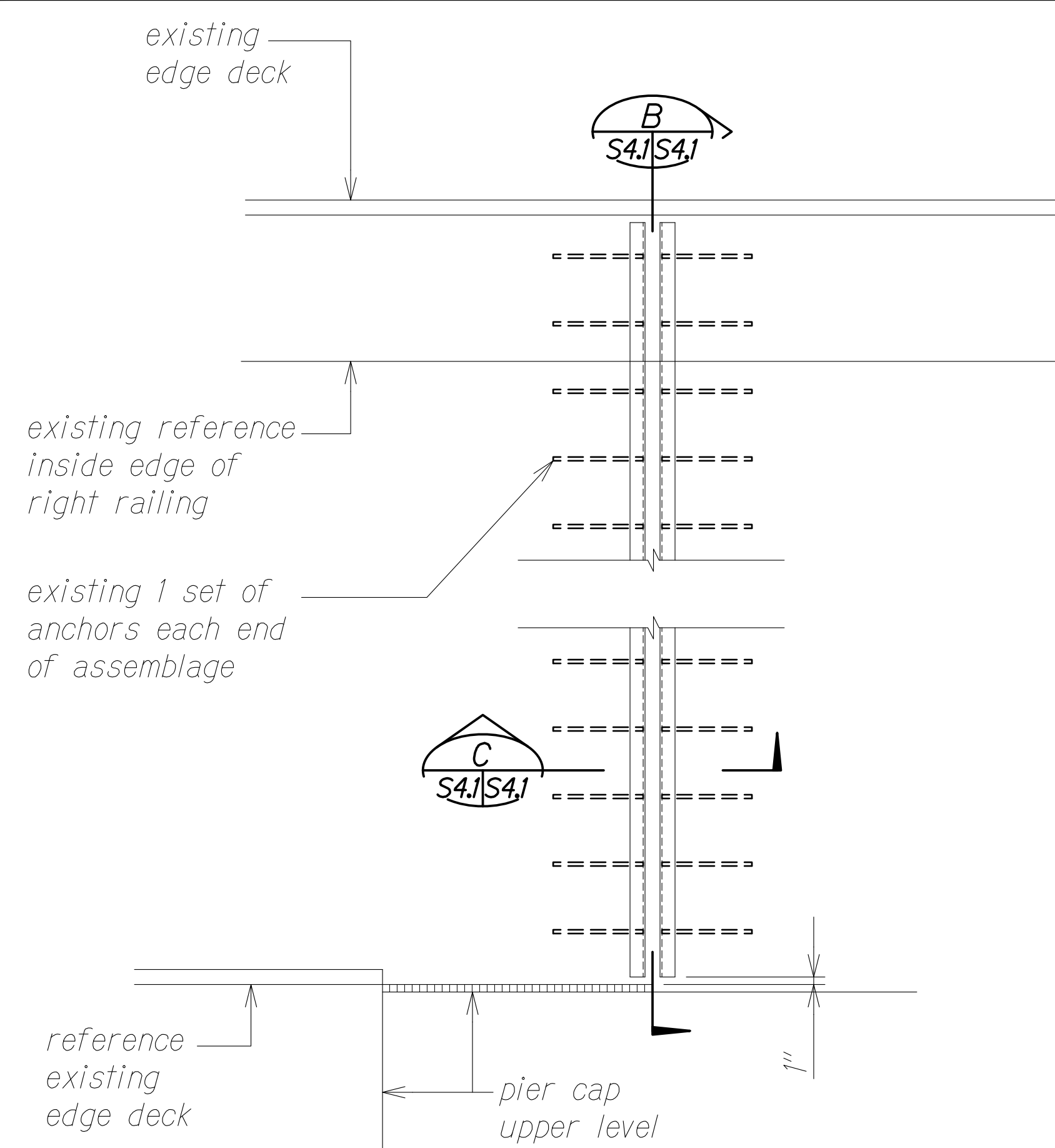
MATCH LINE - H-1 PIER NO. 50  
See Sht. S3.3



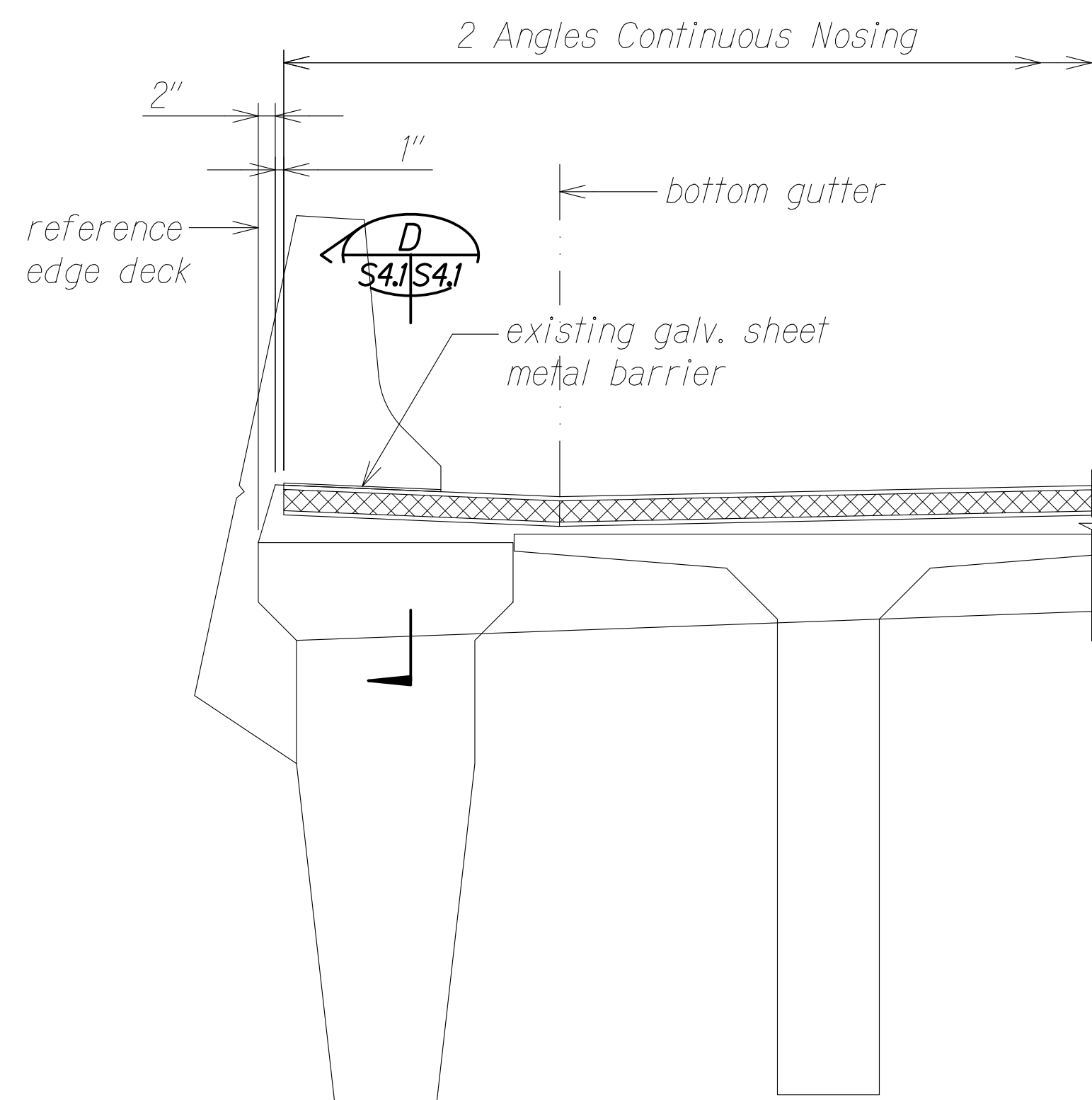
OVERLAY LAYOUT  
Scale: 1" = 100'-0"      A  
S3.2 S4.8      S3.5 S3.5

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

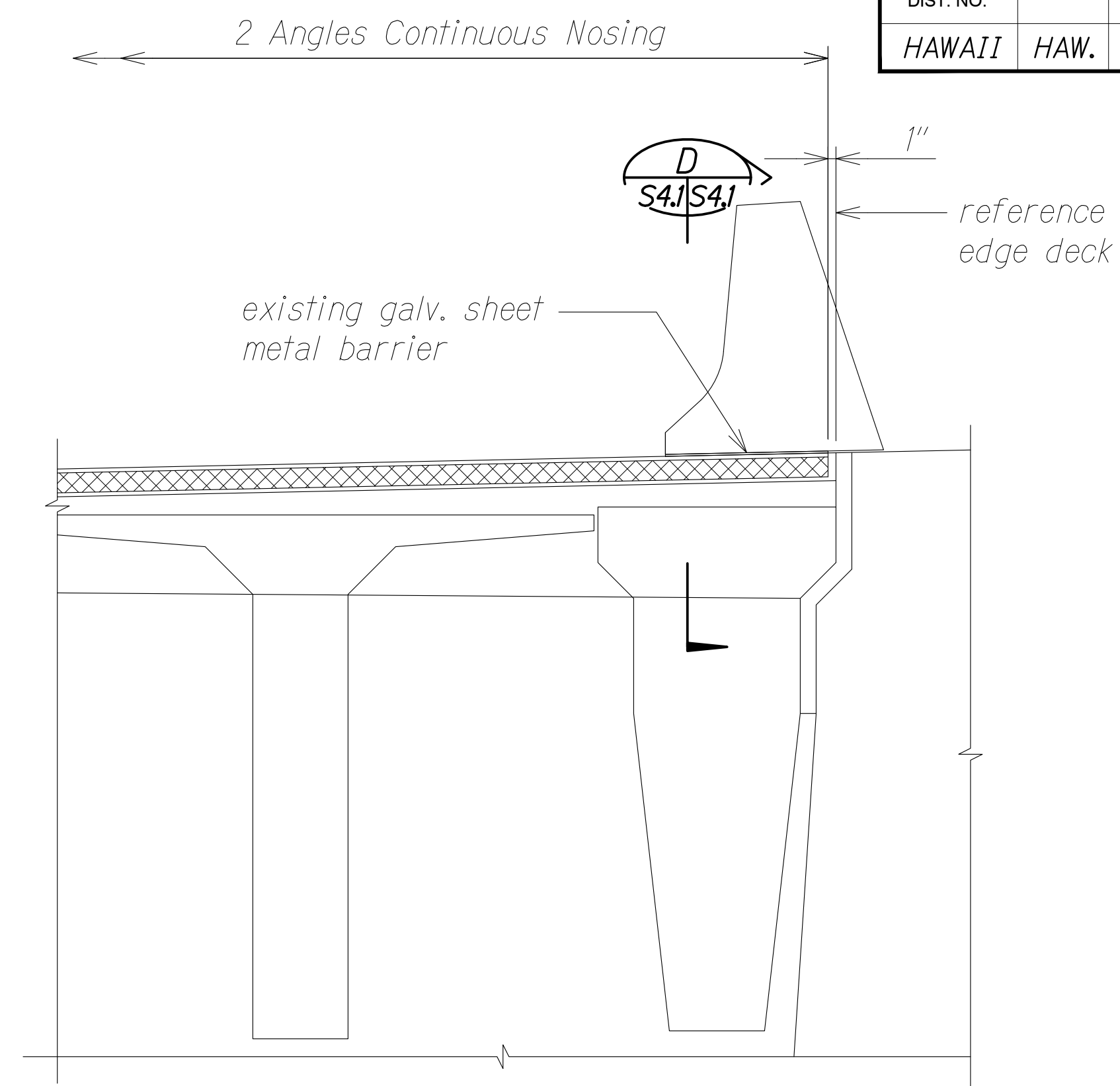
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-HI-1(276)          | 2020        | ADD. 201  | 214          |



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

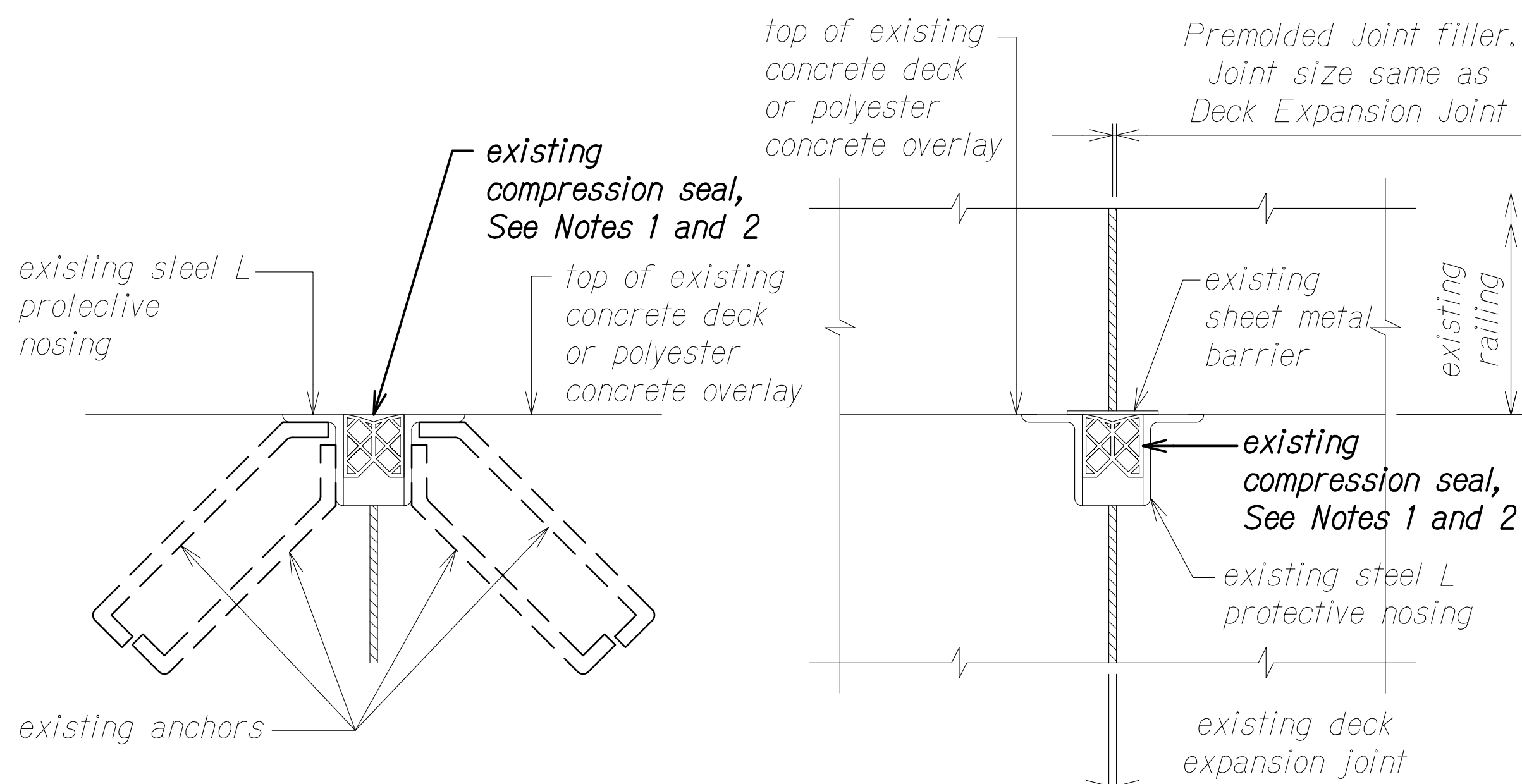


**TYPICAL EXISTING MAKAI CONCRETE RAILING**



**TYPICAL EXISTING MAUKA CONCRETE RAILING**

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

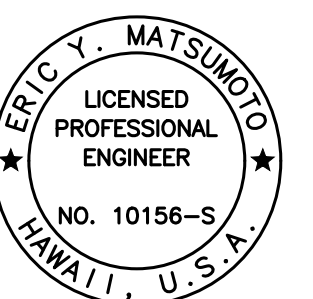


**SECTION C**  
Scale: 3" = 1'-0"  
C  
S4.1/S4.1

**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.



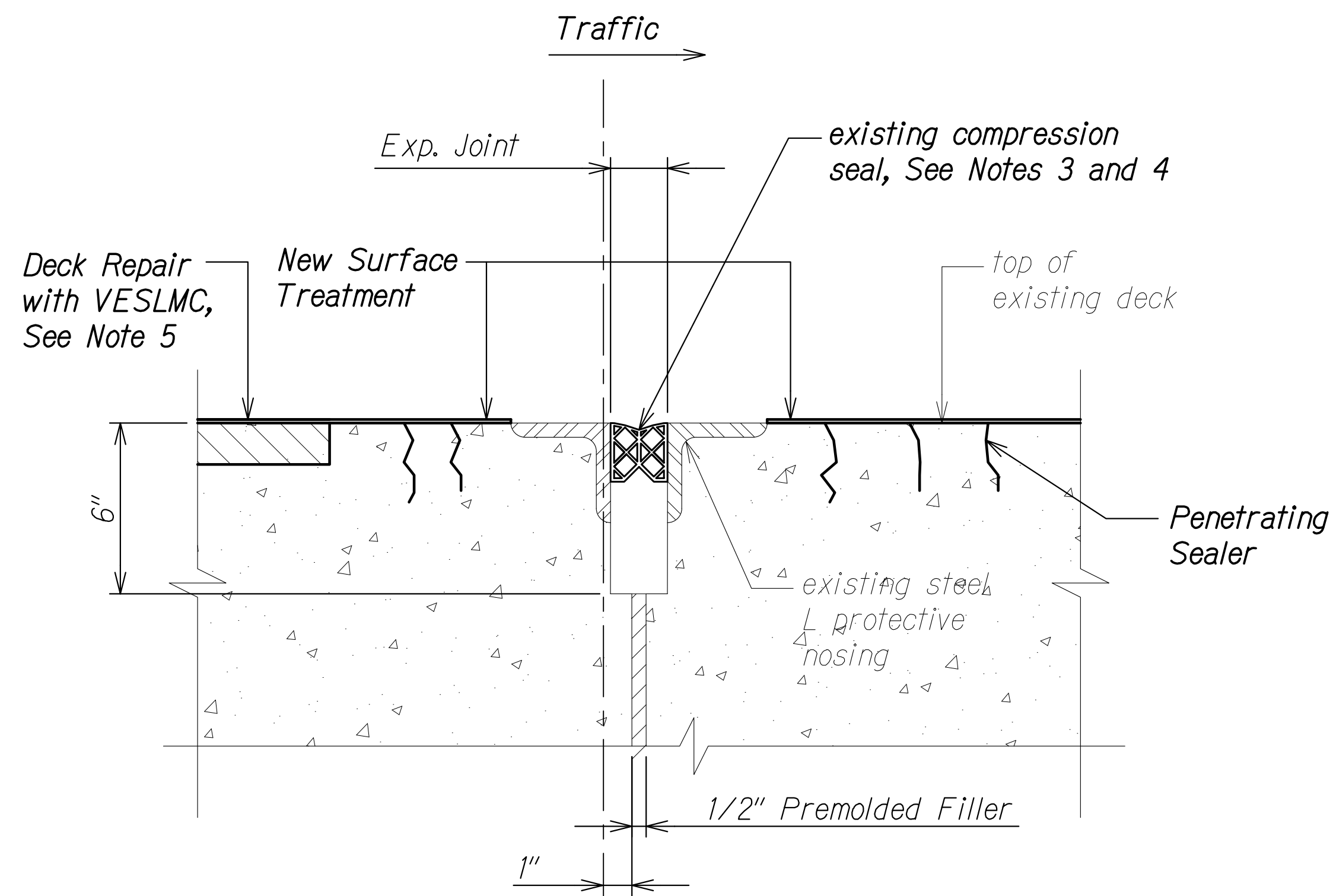
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

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

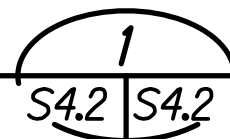
|                                                                                                                                                                    |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION                                                                                               |                 |
| <b>EXISTING EXPANSION JOINT DETAILS</b><br><b>@ STA. 111+60 TO STA. 209+71</b>                                                                                     |                 |
| <b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS</b><br><b>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2</b><br><b>FEDERAL-AID PROJECT NO. NH-HI-1(276)</b> |                 |
| 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(276)          | 2020        | 202       | 214          |



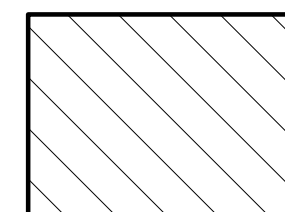
**TYPICAL EXPANSION JOINT DETAIL**  
**@ STA. 136+00 TO STA. 209+71**  
Scale: 3" = 1'-0"



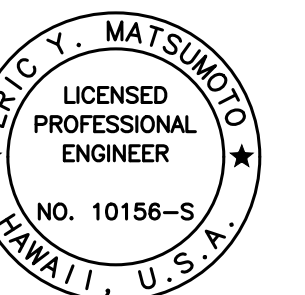
**Notes:**

- Steel L Protective nosing anchors detail is not shown for clarity.
- Follow manufacturer's recommendations for surface prep of existing substrate prior to installing new surface treatment.
- The Contractor shall inspect and assess the condition of the existing compression seal. If existing compression seal is defective, 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  sim.
- Cracks in compression seals shall be referred to as defective compression seal.
- See sheets S2.1 to S2.34, S4.6 and S4.7 for deck repair locations and details. Also see note 4.H on sheet S0.1 and Section 682 DEFECTIVE CONCRETE of the Special Provisions.

**Legend:**



VESLMC



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SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

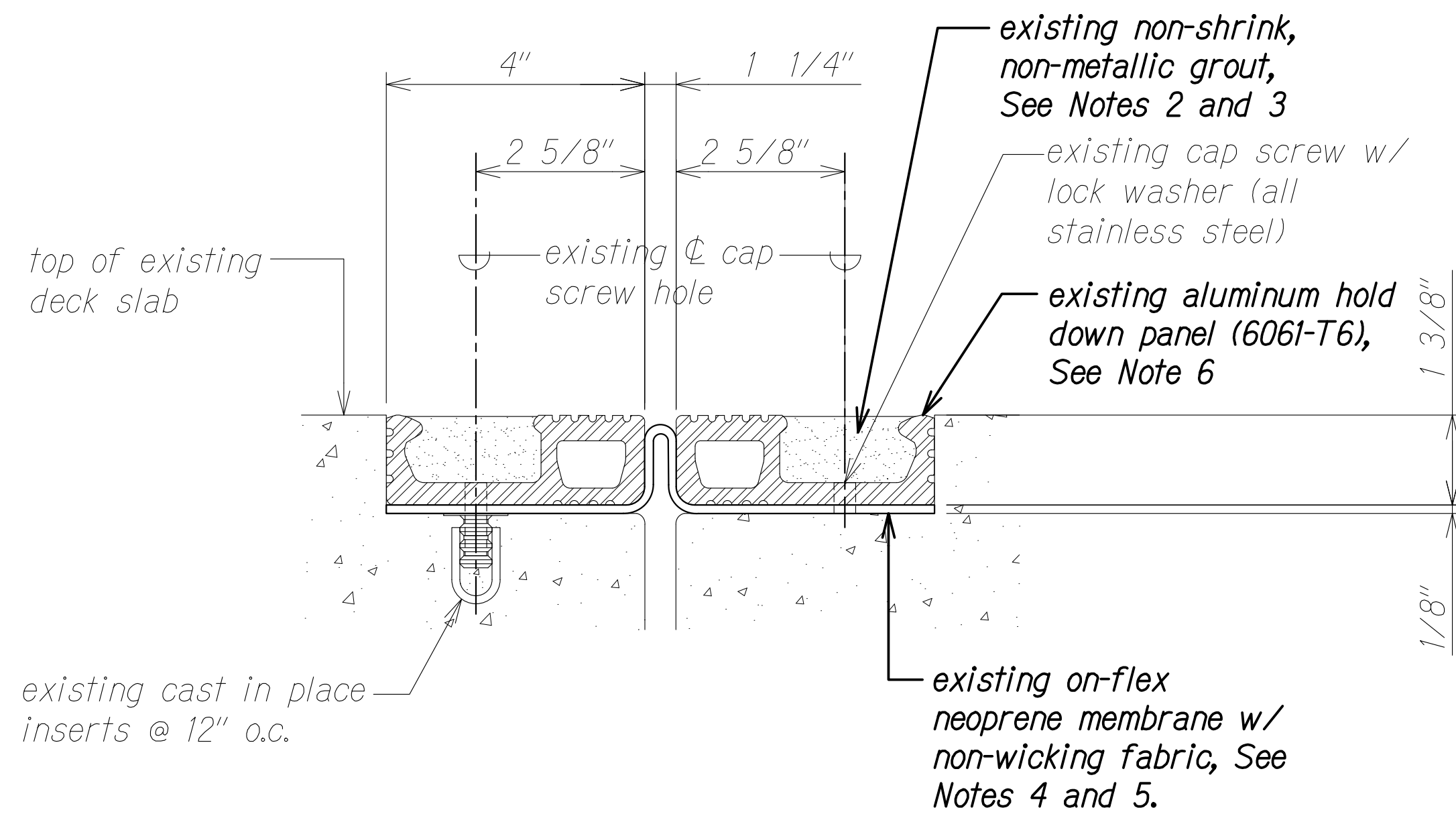
**TYPICAL EXPANSION JOINT DETAIL**  
**@ STA. 130+00 TO STA. 209+71**

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

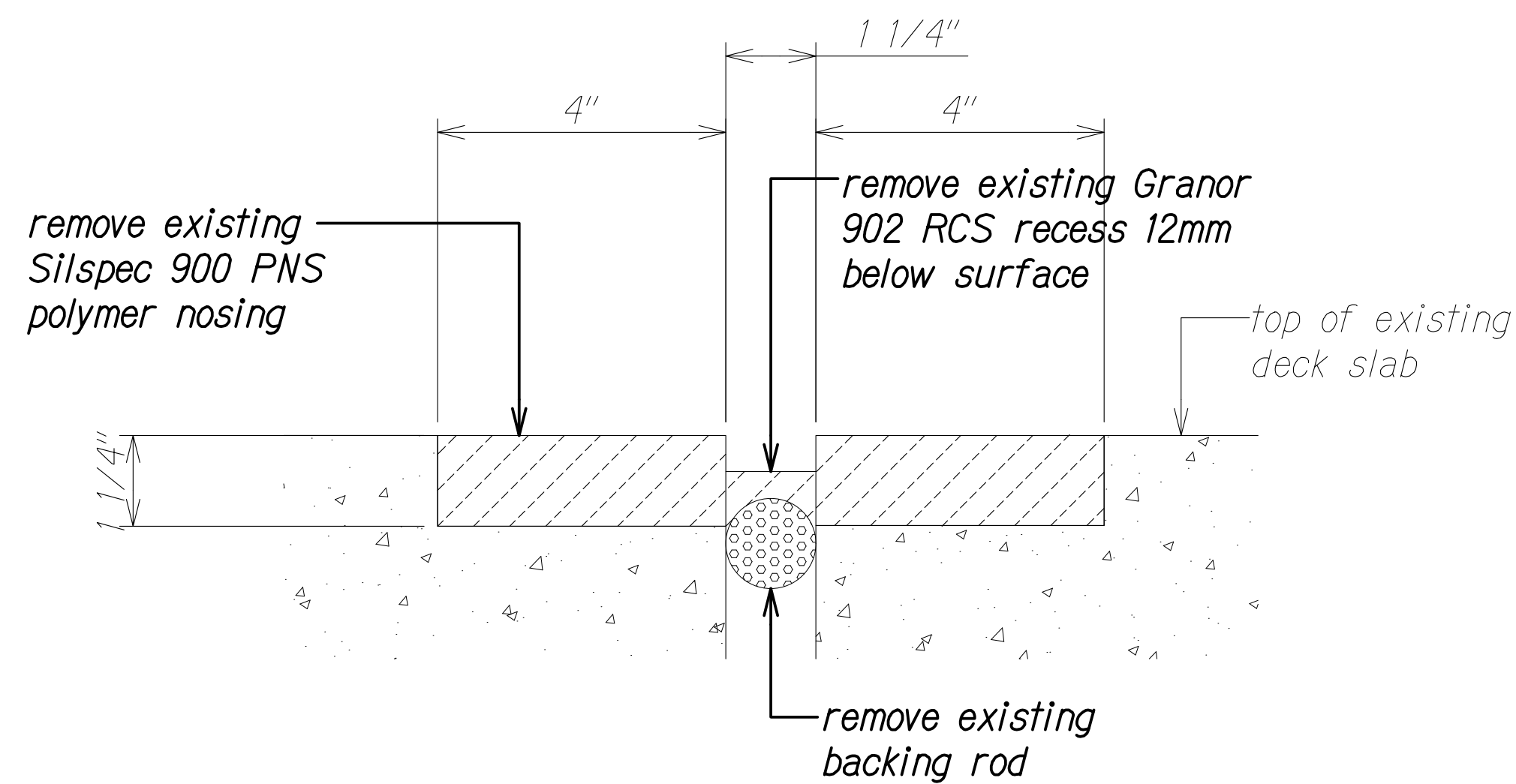
Scale: As Noted Date: Aug. 2020

SHEET No. S4.2 OF 13 SHEETS

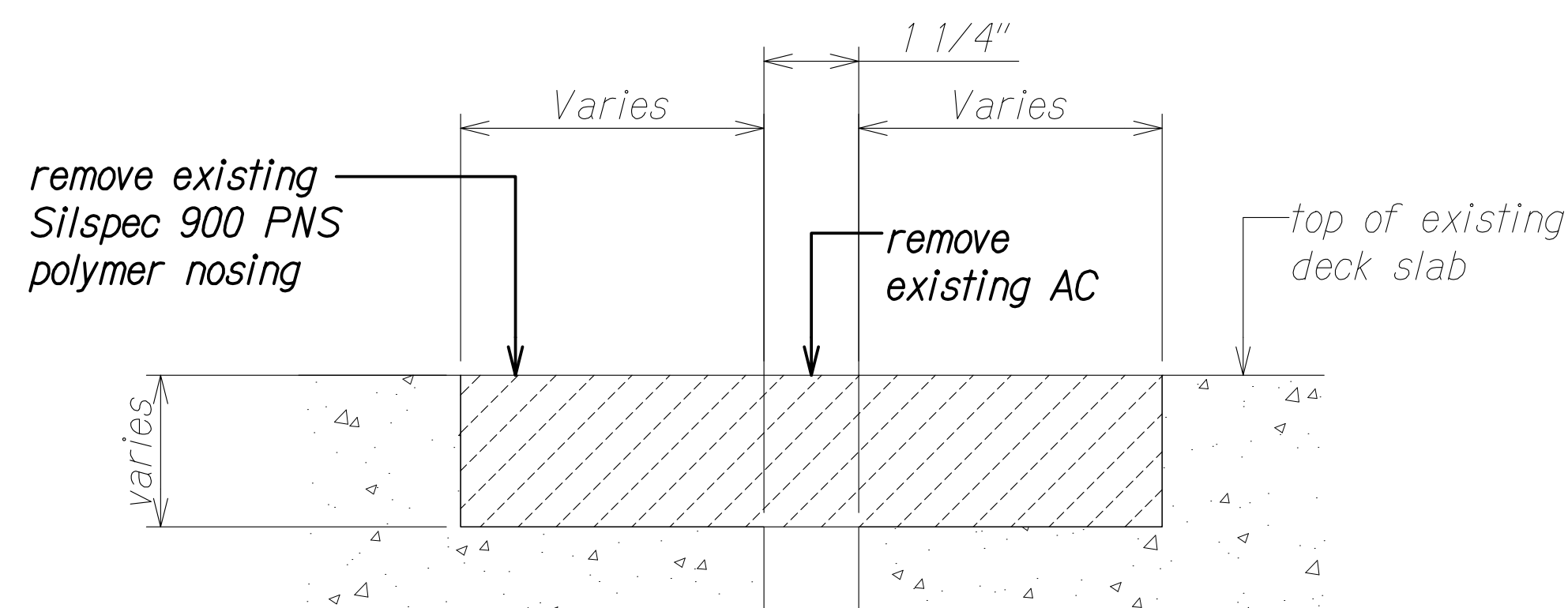
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-HI-1(276)          | 2020        | 203       | 214          |



**EXISTING ON-FLEX 25** A  
Not to Scale S4.3 S4.3



**DAMAGED EXISTING XJS TO BE REMOVED** B  
Not to Scale S4.3 S4.3

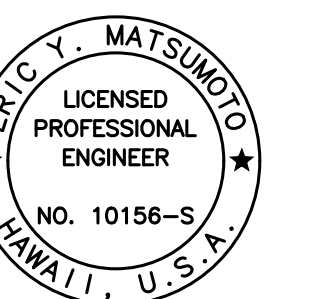


**EXISTING AC TO BE REMOVED** C  
Not to Scale S4.3 S4.3

**Notes:**

1. The Contractor shall inspect and assess the condition of all existing joints.
2. Sound existing grout in existing expansion joints. If existing grout is defective, remove all grout within entire existing expansion joint's aluminum hold down opening. Follow manufacturer's recommendations for surface prep prior to filling with HPC.
3. Cracks, spalls and delaminations in grout shall be referred to as defective grout.
4. If existing on-flex neoprene membrane is defective or missing, the Contractor shall notify the Engineer.
5. Cracks in on-flex neoprene membrane shall be referred to as defective.
6. If aluminum hold down panel is missing, remove entire On-Flex 25 system and repair with detail D S4.5 S4.4.
7. For all defective existing expansion joints not shown on the contract documents, notify Engineer before repair or removal.

**Legend:**



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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

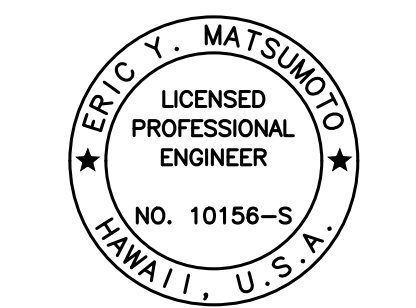
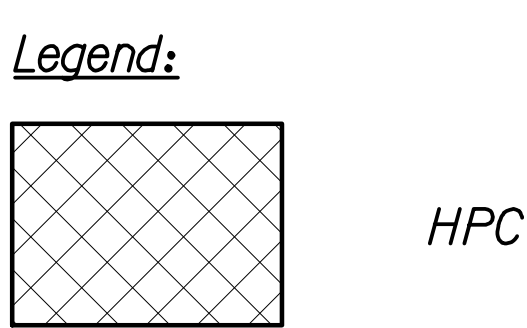
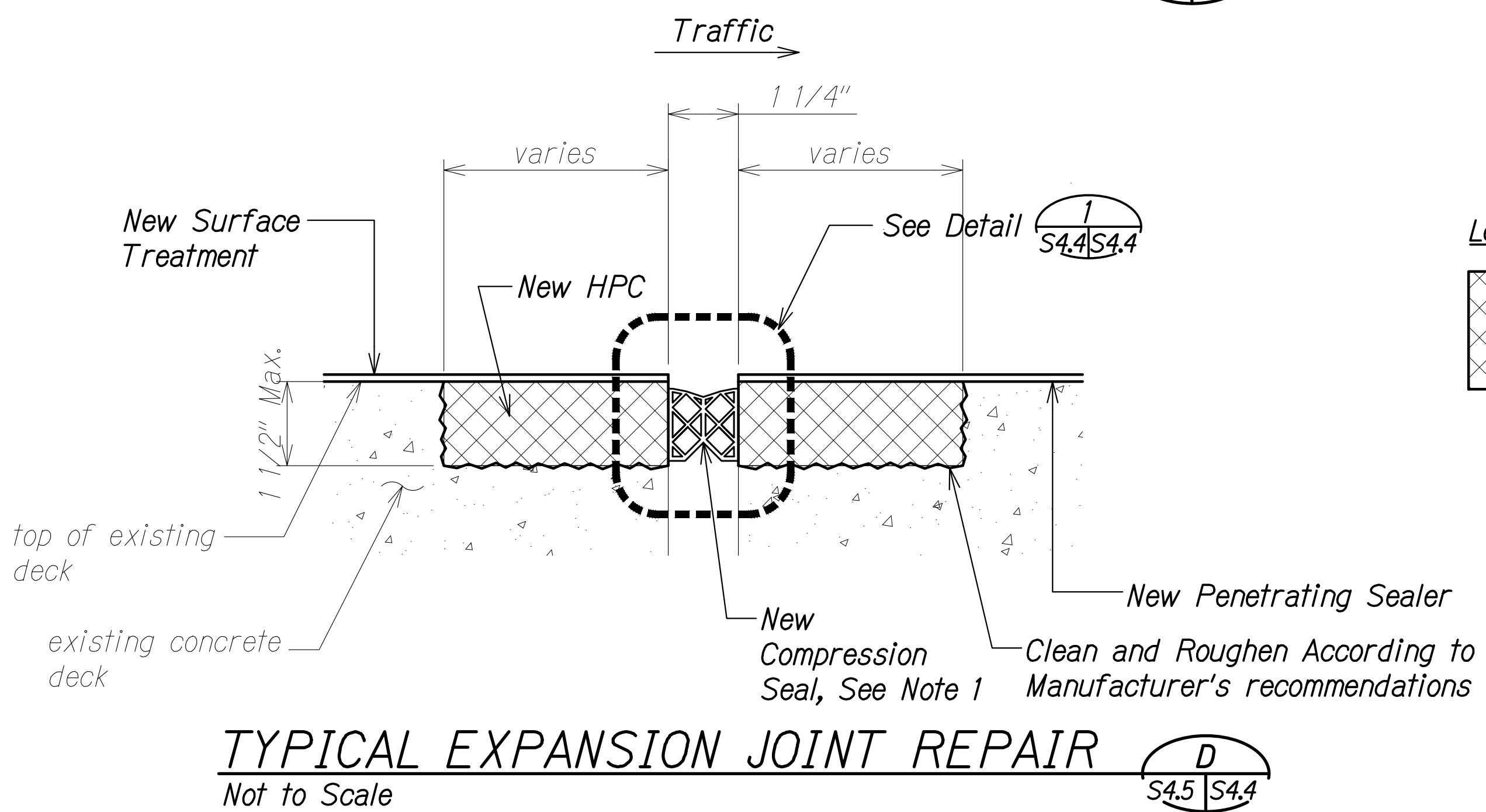
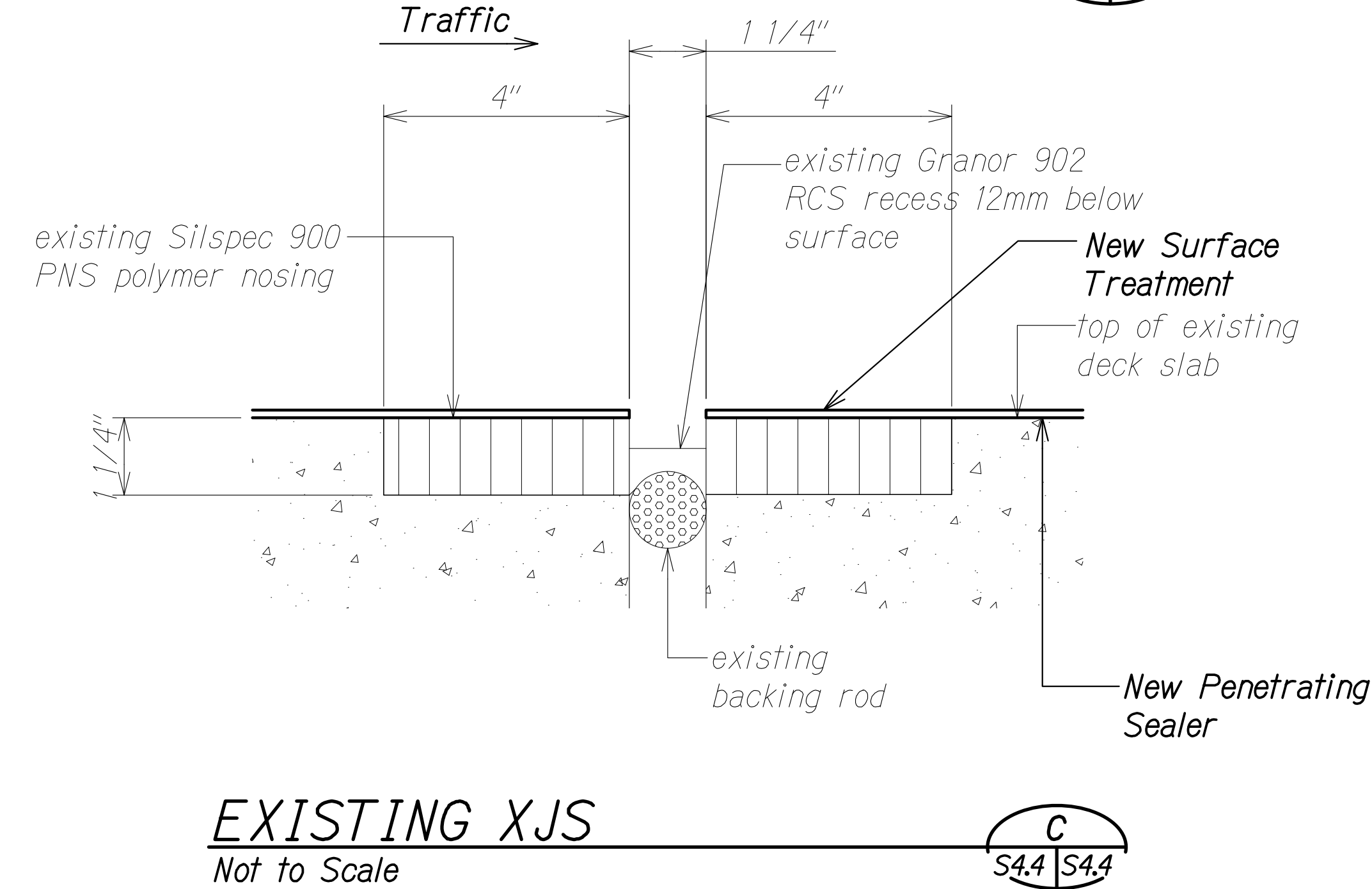
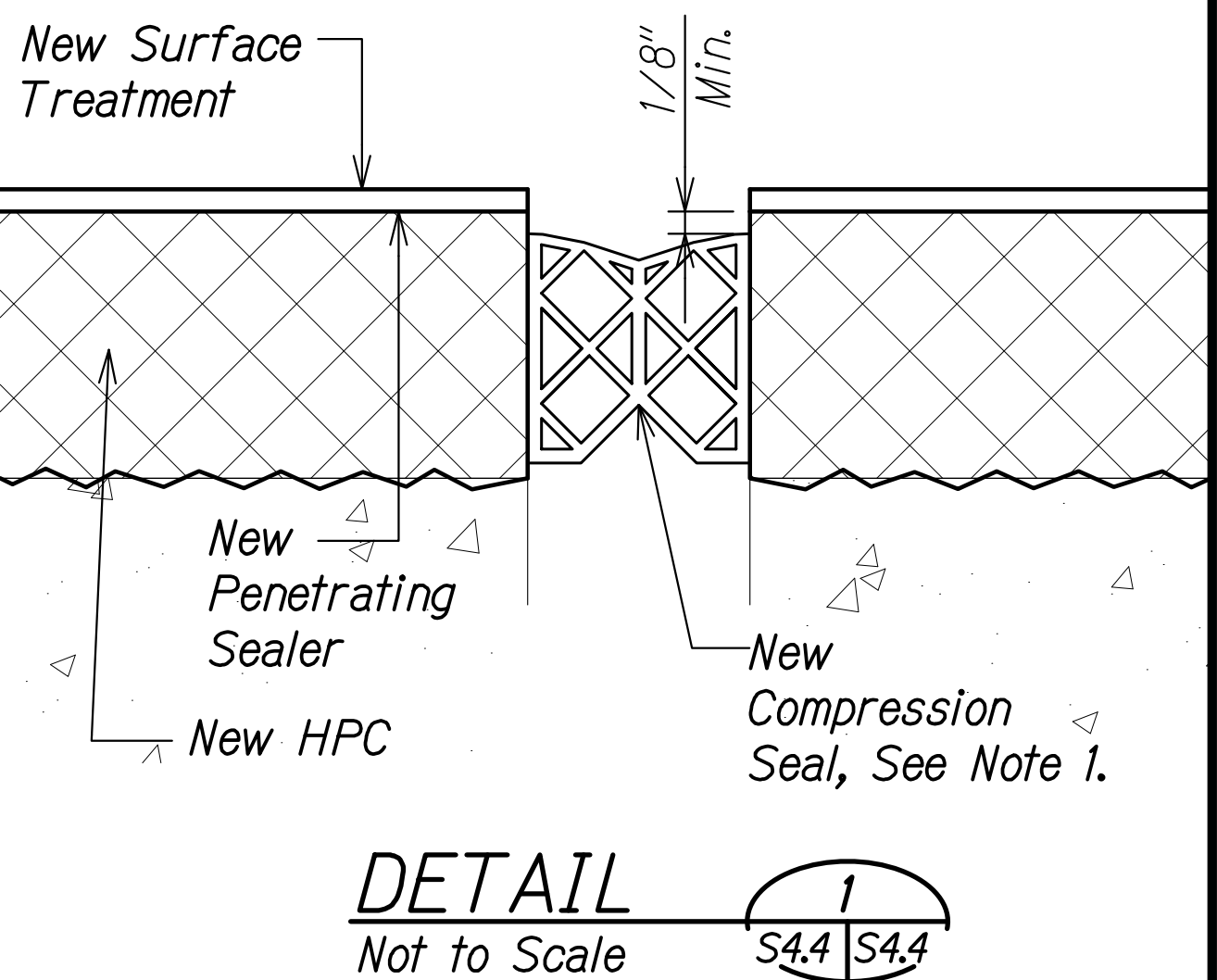
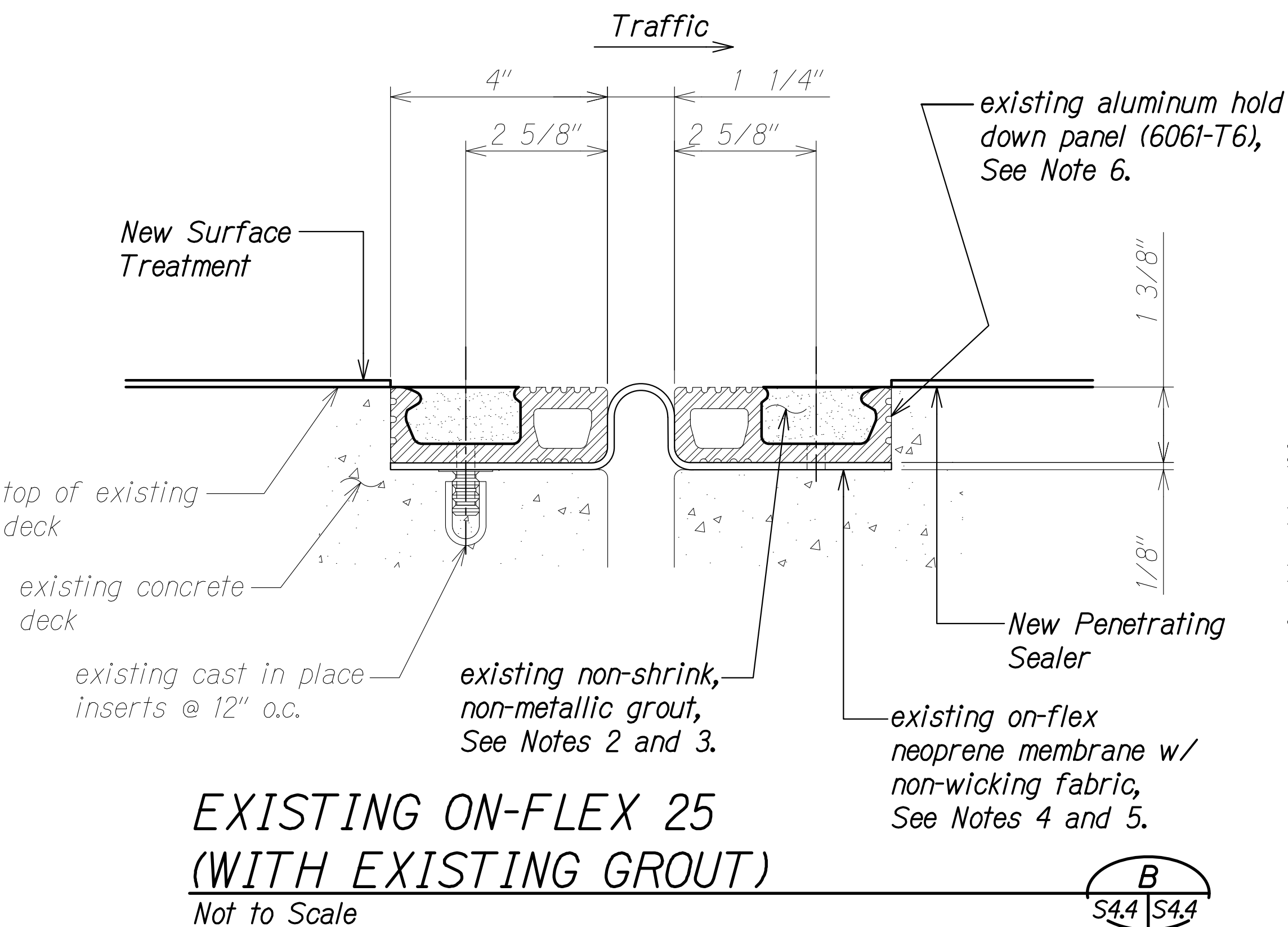
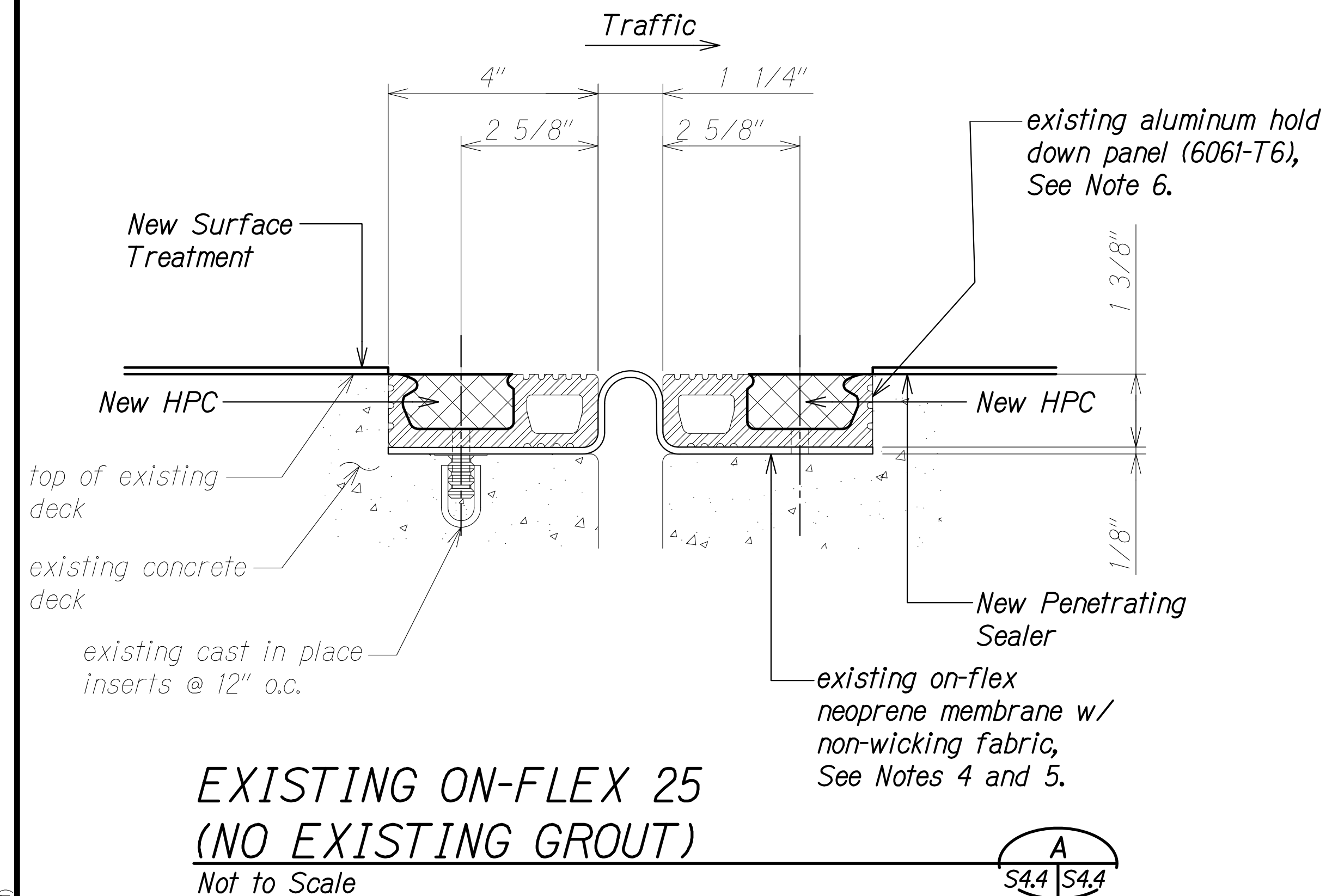
**EXISTING EXPANSION JOINT DETAILS**  
**@ STA. 209+71 TO STA. 230+00**

**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: As Noted Date: Aug. 2020

SHEET No. S4.3 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        | 204       | 214          |



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

**Notes:**

1. New compression seal shall conform to Sectin 515 DECK EXPANSION JOINT of the Special Provisions.
2. Sound existing grout in existing expansion joints. If existing grout is defective, remove all grout within entire existing expansion joint's aluminum hold down opening. Follow manufacturer's recommendations for surface prep prior to filling with HPC.
3. Cracks, spalls and delaminations in grout shall be referred to as defective grout.
4. If existing on-flex neoprene membrane is defective or missing, the Contractor shall notify the Engineer.
5. Cracks in on-flex neoprene membrane shall be referred to as defective.
6. If aluminum hold down panel is missing, remove entire On-Flex 25 system and repair with detail **D**.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

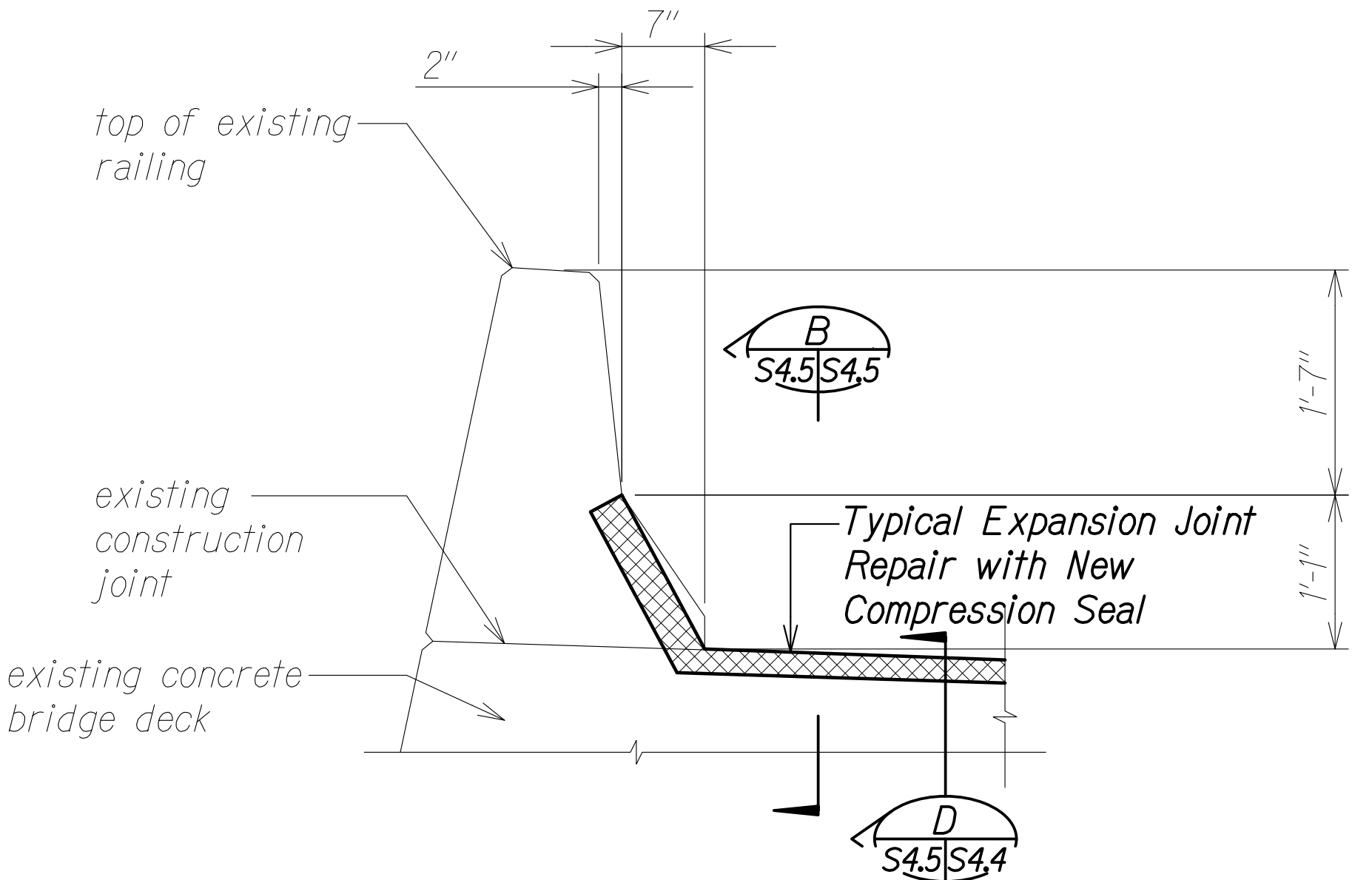
**EXPANSION JOINT DETAILS**  
**@ STA. 209+71 TO STA. 230+00**

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

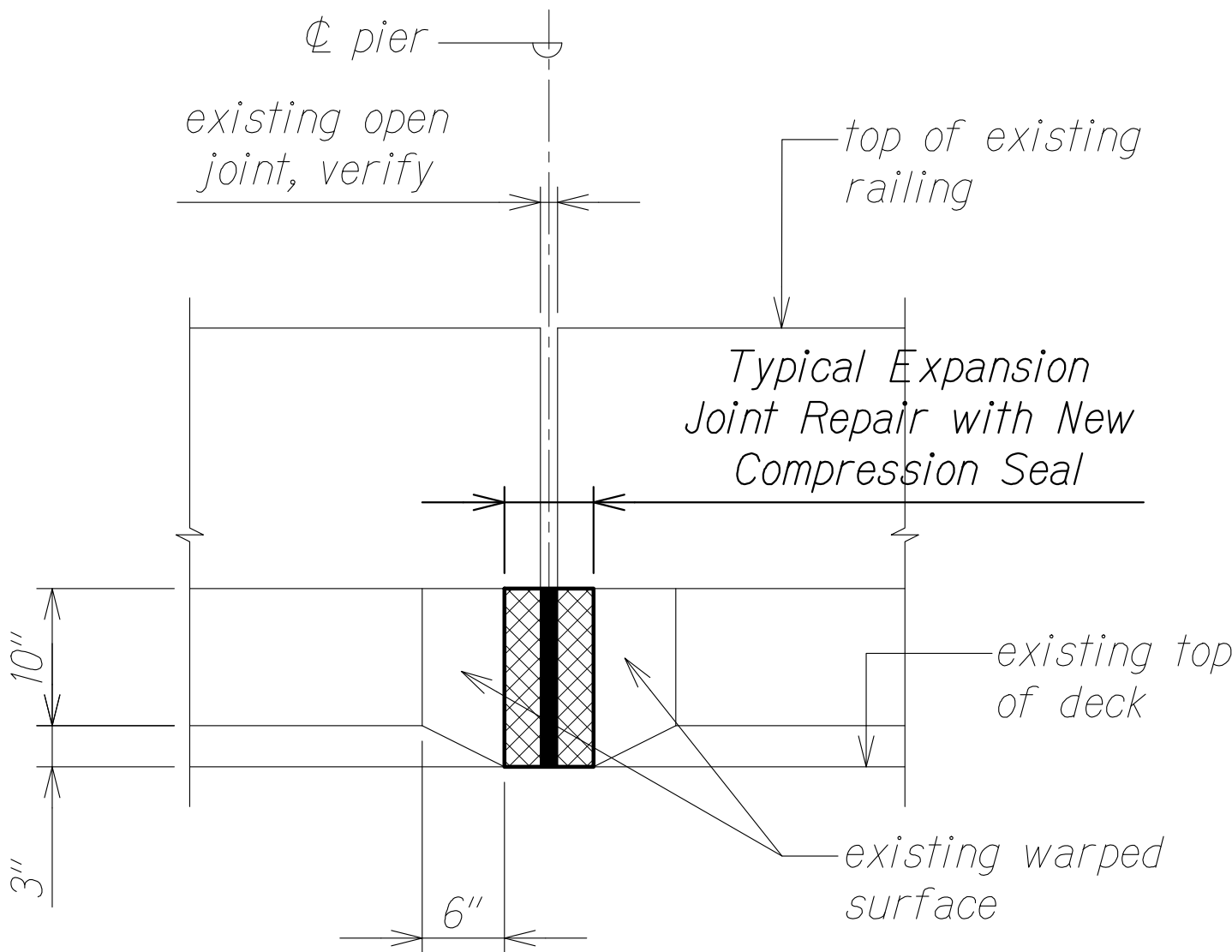
Scale: As Noted Date: Aug. 2020

SHEET No. **S4.4** OF **13** SHEETS

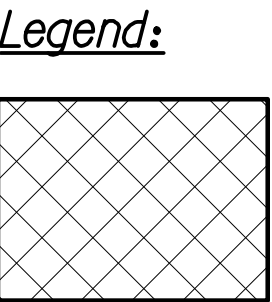
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-HI-1(276)          | 2020        | 205       | 214          |



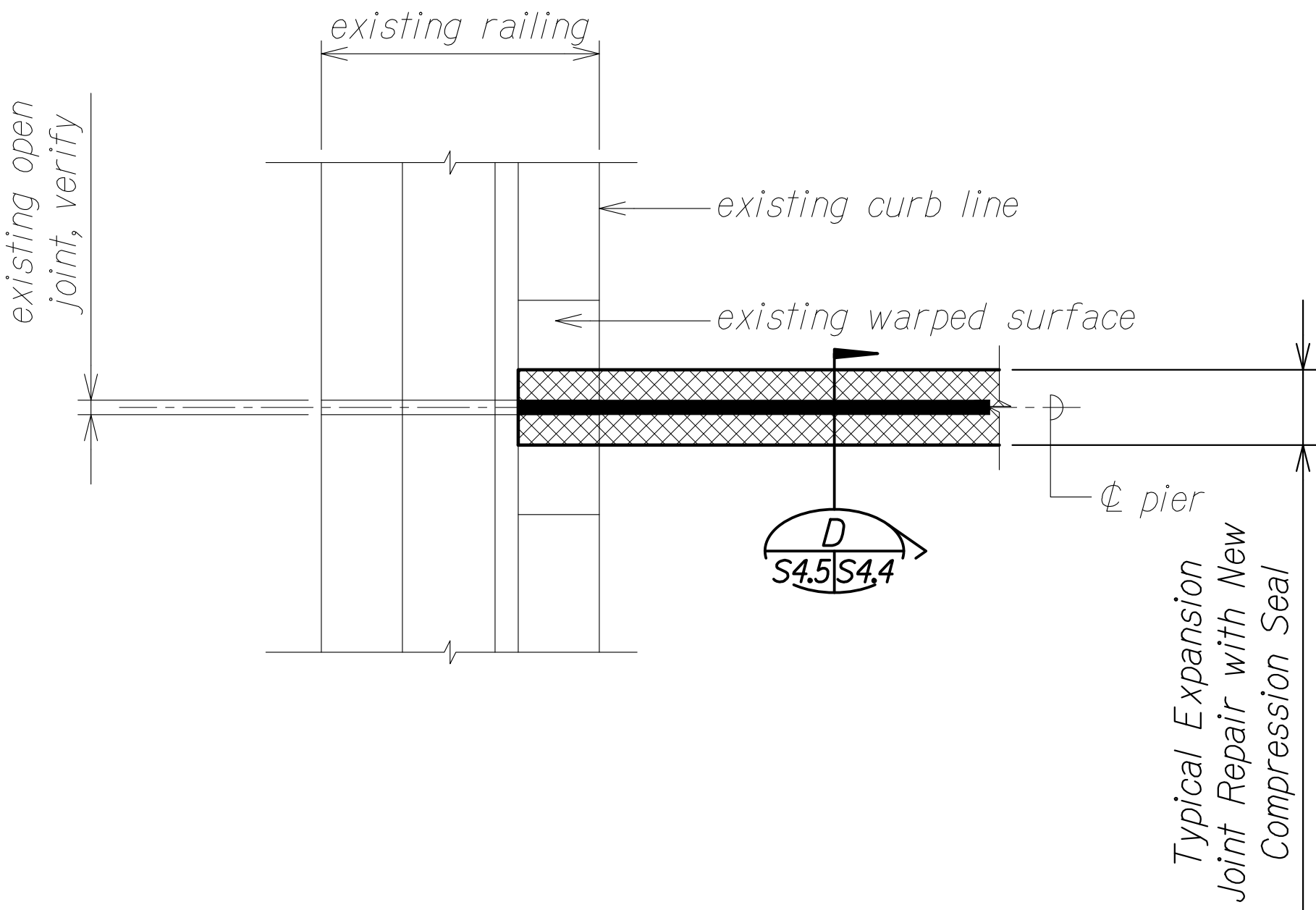
**TYPICAL SECTION AT PARAPET**  
 Scale: 1" = 1'-0" **A**  
 S4.5 S4.5



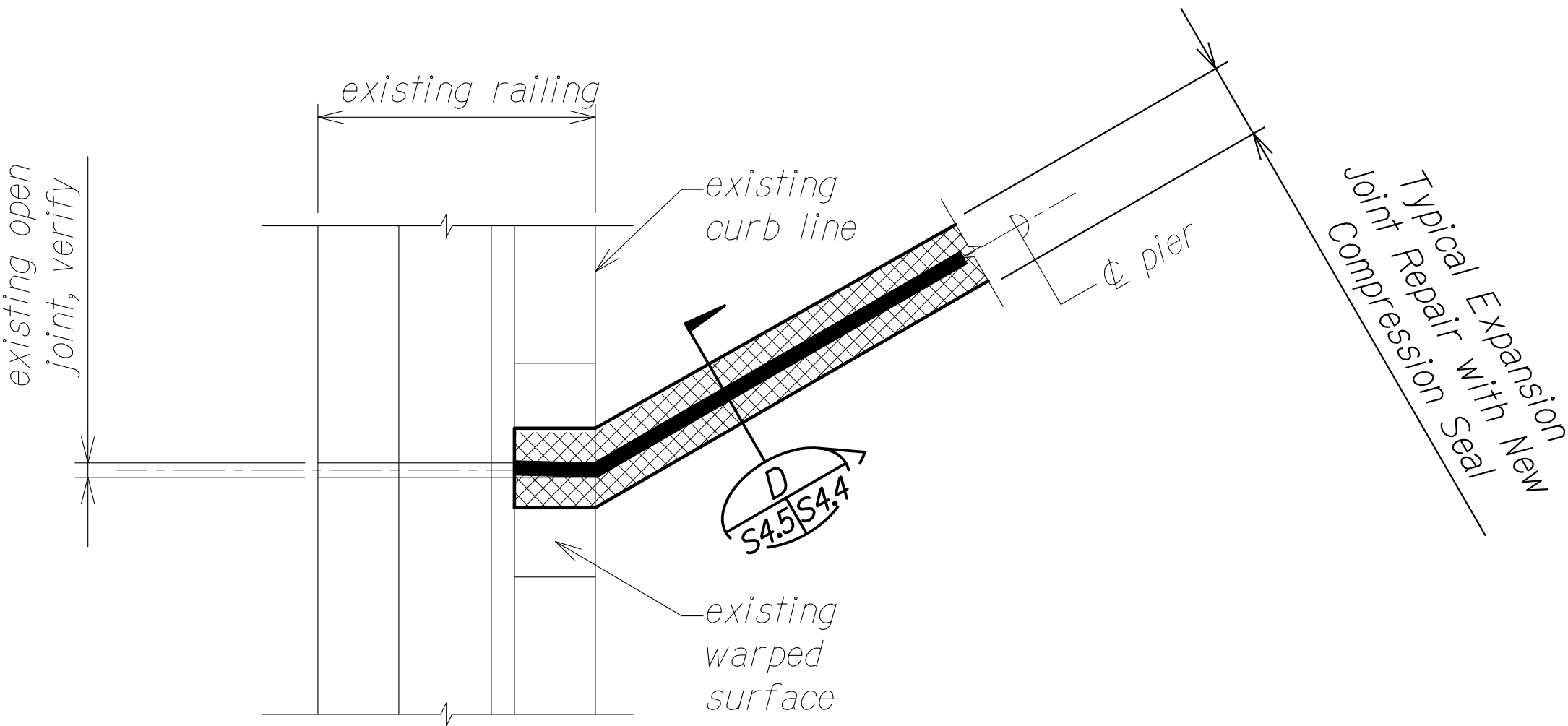
**SECTION B**  
 Scale: 1" = 1'-0" **B**  
 S4.5 S4.5



HPC



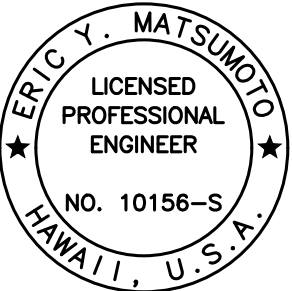
**TYPICAL PLAN-SKEW ANGLE 0° - 15°**  
 Scale: 1" = 1'-0" **C**  
 S4.5 S4.5



**TYPICAL PLAN-SKEW ANGLE OVER 15°**  
 Scale: 1" = 1'-0" **D**  
 S4.5 S4.5

|               |                   |      |
|---------------|-------------------|------|
| 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\9-08-20 R\SD TSHT & SHCT\AVR-S0401 EXIST JOINT.DWG PLOT TIME: 09-08-20, 9:15 AM



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

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

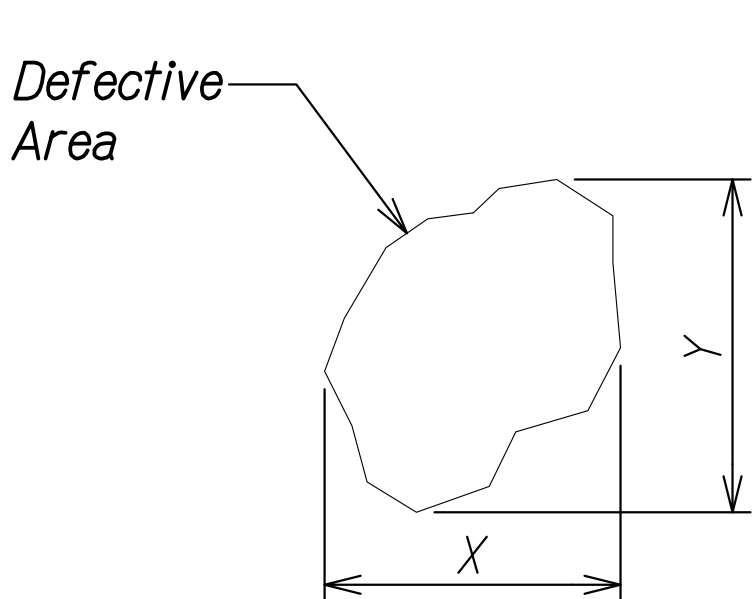
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**TYP. EXPANSION JOINT REPAIR DETAILS**  
**@ STA. 209+77 TO STA. 230+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: As Noted Date: Aug. 2020

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-HI-1(K276)         | 2020        | 206       | 214          |

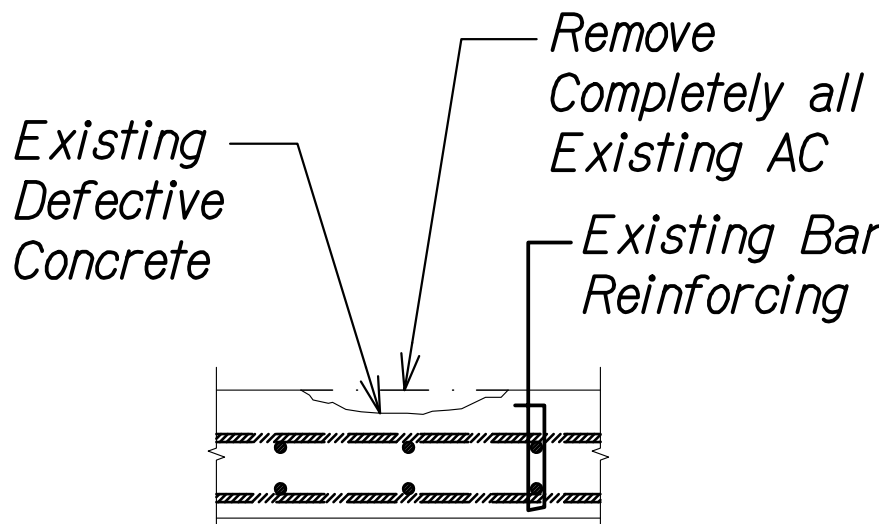
NOTES:

1. The Contractor shall be aware of the extensive repair requirements in Section 682 - DEFECTIVE CONCRETE REPAIR of the Special Provisions.
2. Spalls, delaminations, and honeycombing as noted on the drawings shall all be referred to as defective concrete.
3. The Contractor shall completely remove all AC patches on the top of deck and inspect the entire area for concrete defects. The Contractor shall sound all existing concrete that will be overlayed with Surface Treatment.
4. Any existing defective concrete and cracked concrete that the Contractor discovers throughout the construction process that was not shown on the contract documents shall be brought to the attention of the Engineer.
5. All contaminated concrete containing any oil, dirt, etc. shall be removed. The Contractor shall take necessary precautions to avoid damaging the underlying sound concrete.
6. The defective concrete shall be squared by saw-cutting and chipping the concrete at the perimeter beyond the removal area a minimum of 1-inch to attain a 1/2" inch minimum depth and to prevent feather edge conditions. Exercise great care to avoid vibrating, cutting or damaging any existing embedded steel reinforcing. Angles between adjacent saw-cuts around the perimeter shall not be less than 90 degrees and the shape of each patch shall not be irregular.
7. Existing concrete surfaces within the repair area shall be roughened to ensure proper adhesion. Follow Special Provisions manufacturer's recommendations for further surface preparation.
8. If any reinforcing steel is observed to have section loss during the removal of existing AC patches, removing unsound concrete, or during surface preparation the Contractor shall follow Sheet S4.7 and the requirements in the Special Provisions.
9. Contractor shall use a Very Early Strength Latex Modified Concrete (VESLMC) to repair all defective concrete except as noted in Section 682 lines 15 to 17. VESLMC shall consist of FasTrac 246 concrete, an added amine carboxylate corrosion inhibiting admixture, a Ready-To-Use FasTrac Polymer, and 3/4" long Forta Ferro Fibers or approved equal so that when combined it produces a rapid-setting material capable of achieving 3,000 psi of compression strength within 3 hours. Contractor shall follow manufacturer's recommendations during construction.
10. The Contractor shall not saw-cut beyond the repair limits.
11. For defective Polyester Concrete, see Sheet S4.8 for Polyester Concrete Repair Detail.

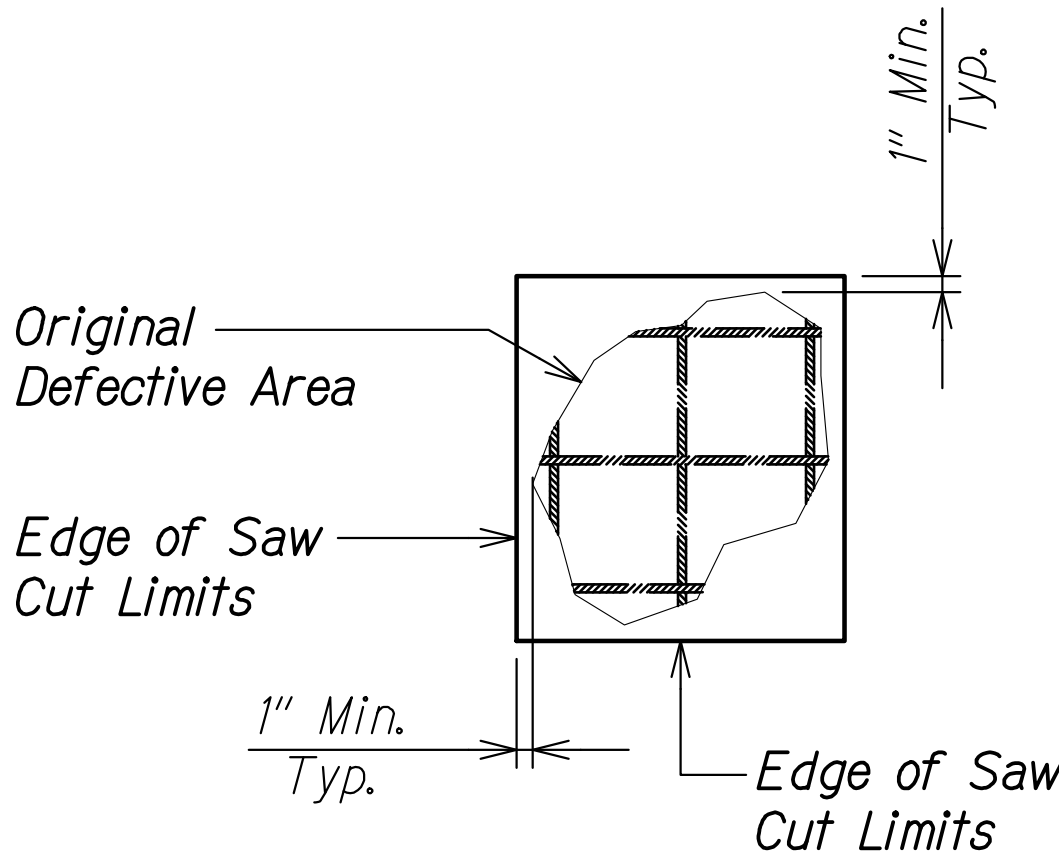


Existing Defective Area =  $X \times Y$

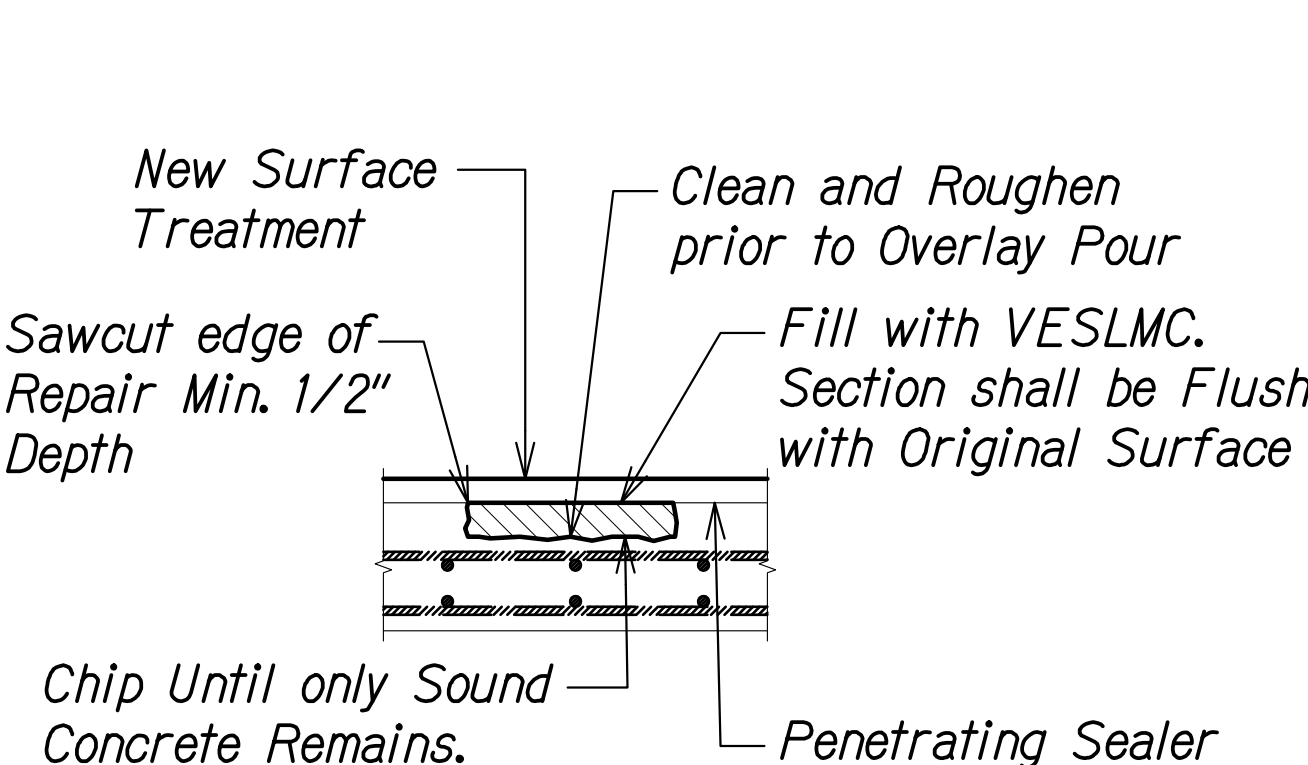
TOP DECK PLAN



DECK SECTION



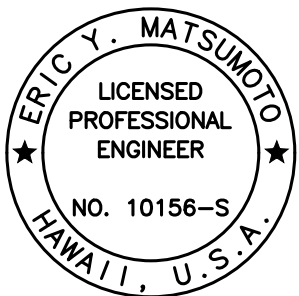
TOP DECK PLAN



DECK SECTION

CONCRETE DECK REPAIR

Scale: 1" = 1'-0"



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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CONCRETE DECK REPAIR DETAIL**

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. S4.6 OF 13 SHEETS

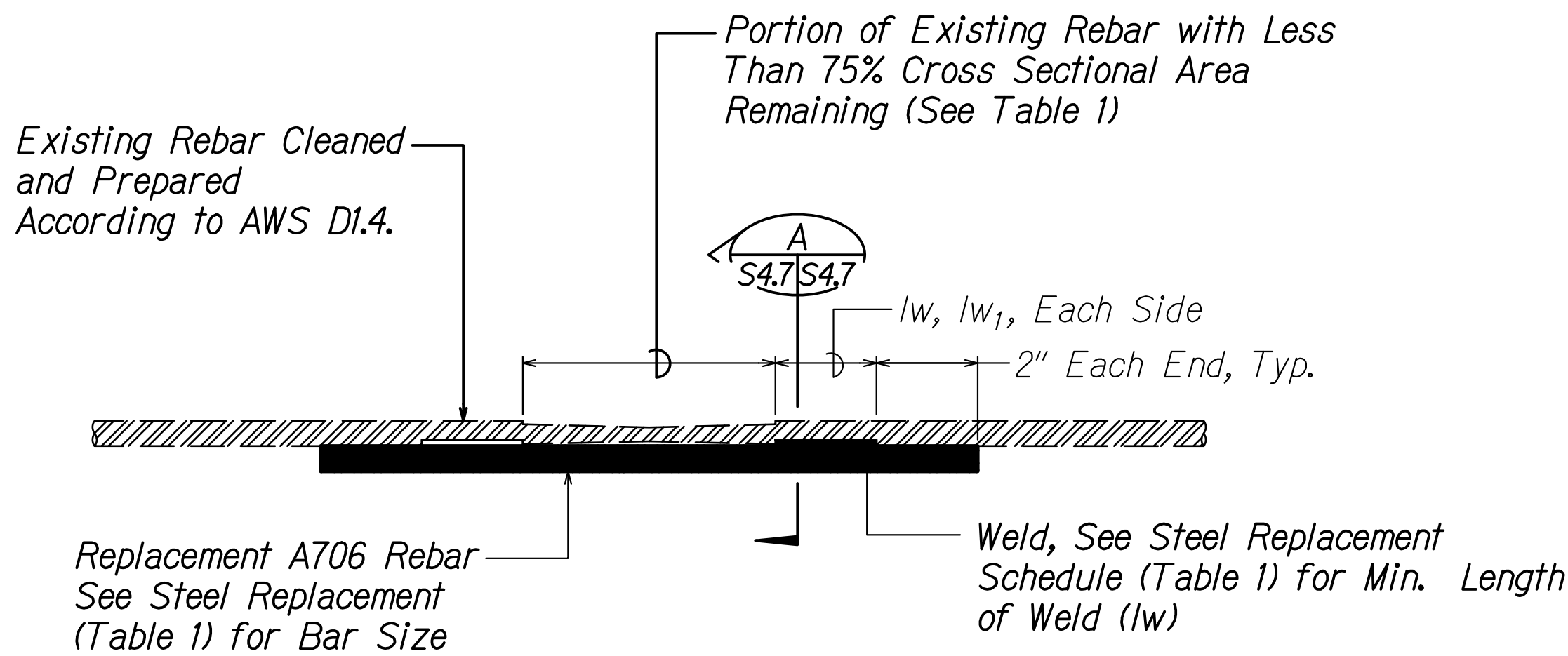
| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-HI-1(276)          | 2020        | 207       | 214          |

TABLE 1

| REPLACEMENT SCHEDULE         |       |                                     |                                            |                                              |
|------------------------------|-------|-------------------------------------|--------------------------------------------|----------------------------------------------|
| SIZE OF EXISTING REINFORCING |       | SIZE OF NEW REPLACEMENT REINFORCING | MINIMUM LENGTH OF WELD EACH SIDE ( $l_w$ ) | MINIMUM LENGTH OF WELD ONE SIDE ( $l_{w1}$ ) |
| SQUARE                       | ROUND |                                     |                                            |                                              |
| 3/8"                         | #3    | #4                                  | 2"                                         | 4"                                           |
|                              | #4    | #4                                  | 2"                                         | 4"                                           |
| 1/2"                         | #5    | #5                                  | 2 1/2"                                     | 5"                                           |
| 5/8"                         | #6    | #6                                  | 3 1/2"                                     | -                                            |
| 3/4"                         | #7    | #7                                  | 4"                                         | -                                            |
| 7/8" OR 1"                   | #8    | #8                                  | 5"                                         | -                                            |

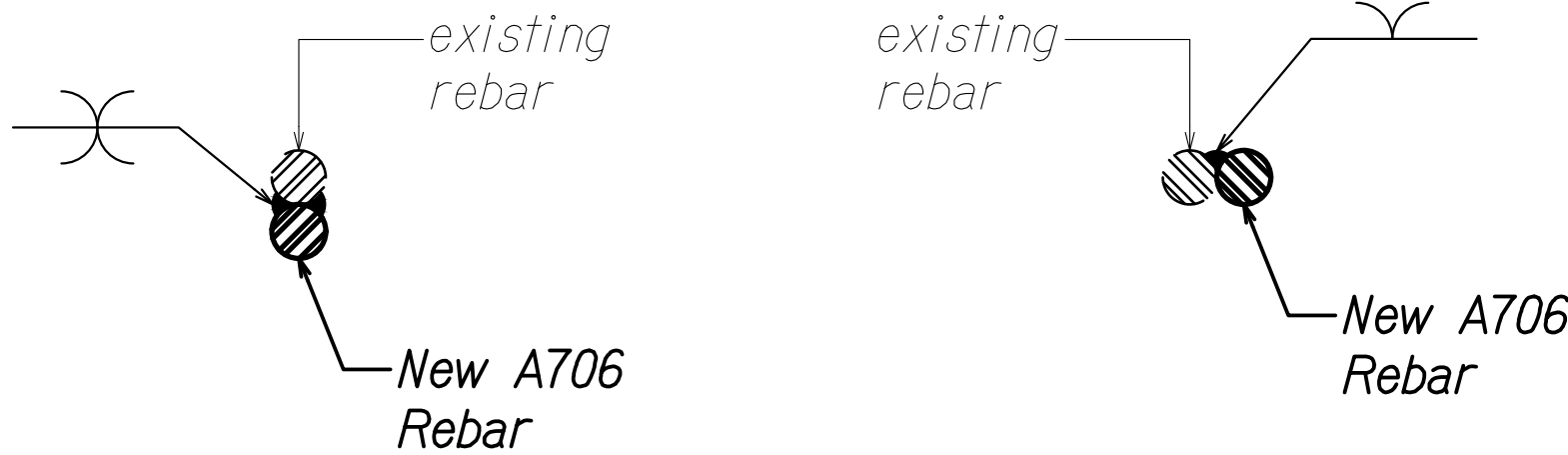
NOTES:

- Replacement reinforcing shall be spliced to existing reinforcing so as not to reduce the existing clear cover.
- For welding of #3, #4, and #5 replacement reinforcing, welding may be performed on one side only, if  $l_w$  is increased to  $l_{w1}$  as shown Table 1.
- Welding shall conform to AWS D1.4. Filler metal shall have a matching strength to the base ASTM A706 metal.
- Do not weld in inclement or wet weather unless protection accepted by the Engineer is provided.



REBAR REPLACEMENT ELEVATION

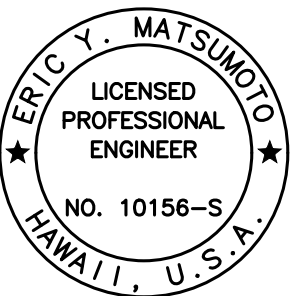
$l_w$  = Length of Weld Each Side  
 $l_{w1}$  = Length of Weld One Side  
(See Table 1)



OPTION NO. 1

OPTION NO. 2

SECTION A  
Scale: 1" = 1'-0" S4.7 S4.7



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

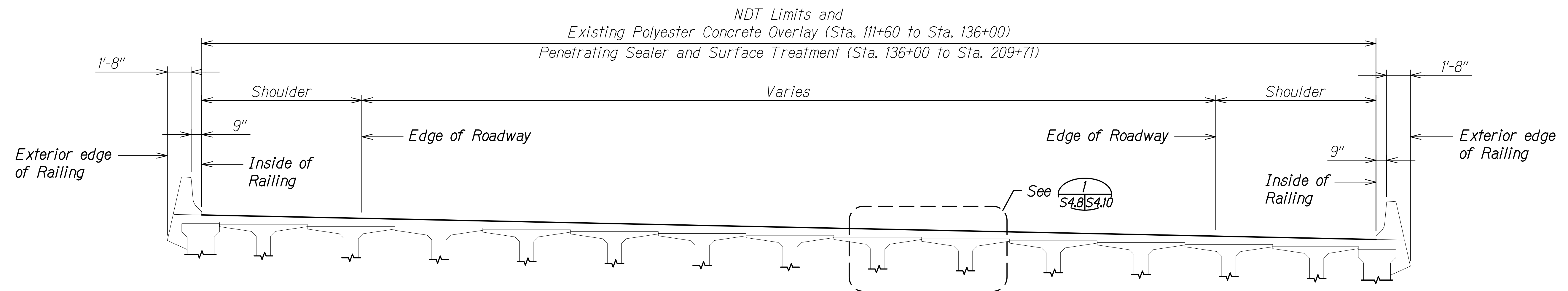
REBAR REPAIR DETAIL

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: As Noted Date: Aug. 2020

SHEET No. S4.7 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        | 208       | 214          |

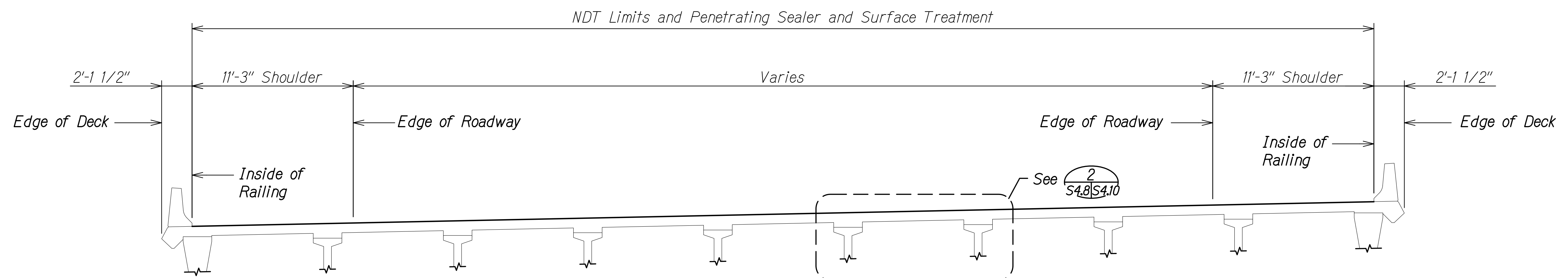


### TYPICAL T-GIRDER DECK SECTION

AT STA. 111+60 TO STA. 209+71

Scale: 1/4" = 1'-0"

A  
S3.1 S4.8  
S3.2, S3.3

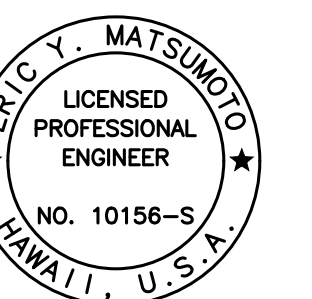


### TYPICAL I-GIRDER DECK SECTION

AT STA. 209+71 TO END OF PROJECT (STA. 230+00)

Scale: 1/4" = 1'-0"

B  
S3.3 S4.8



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EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII  
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HIGHWAYS DIVISION

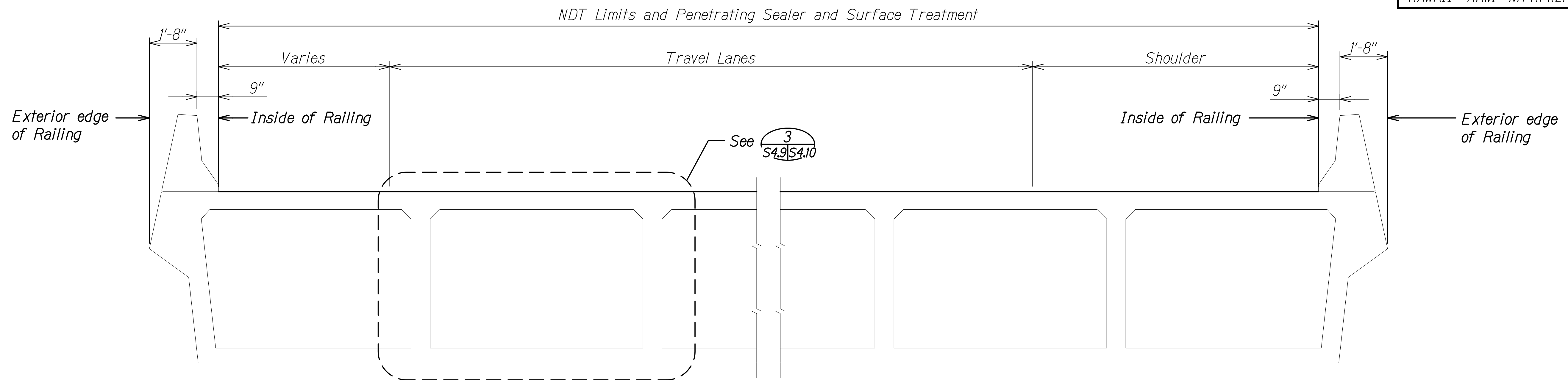
**TYPICAL DECK SECTIONS**

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. S4.8 OF 13 SHEETS

| 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          |

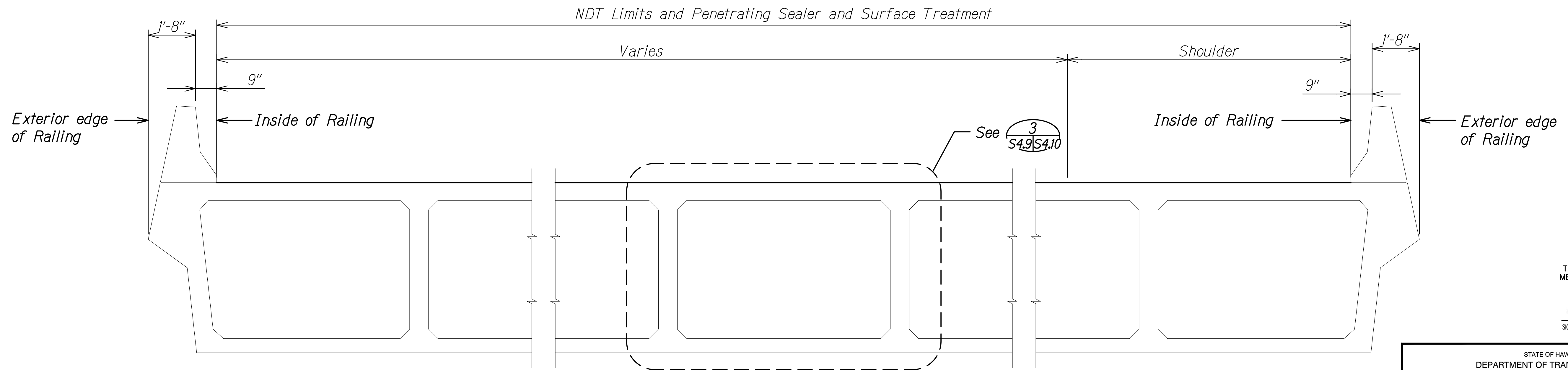


### TYPICAL RAMP WA BOX GIRDER DECK SECTION

STA. 48+61 TO STA. 60+56

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

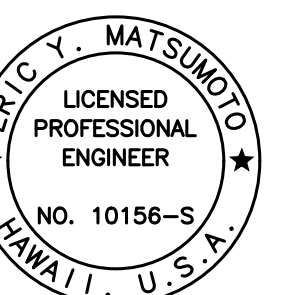
A  
S3.1 S4.9



### TYPICAL RAMP AE BOX GIRDER DECK SECTION AT STA. 68+15 TO STA. 80+28

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

B  
S3.2 S4.9



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|                                                                                                                                                         |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION                                                                                    |                 |
| <b>TYPICAL RAMPS WA AND AE<br/>BOX GIRDER SECTIONS</b>                                                                                                  |                 |
| <b>INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS<br/>VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2<br/>FEDERAL-AID PROJECT NO. NH-HI-1(K276)</b> |                 |
| Scale: As Noted                                                                                                                                         | Date: Aug. 2020 |
| SHEET No. S4.9 OF 13 SHEETS                                                                                                                             |                 |

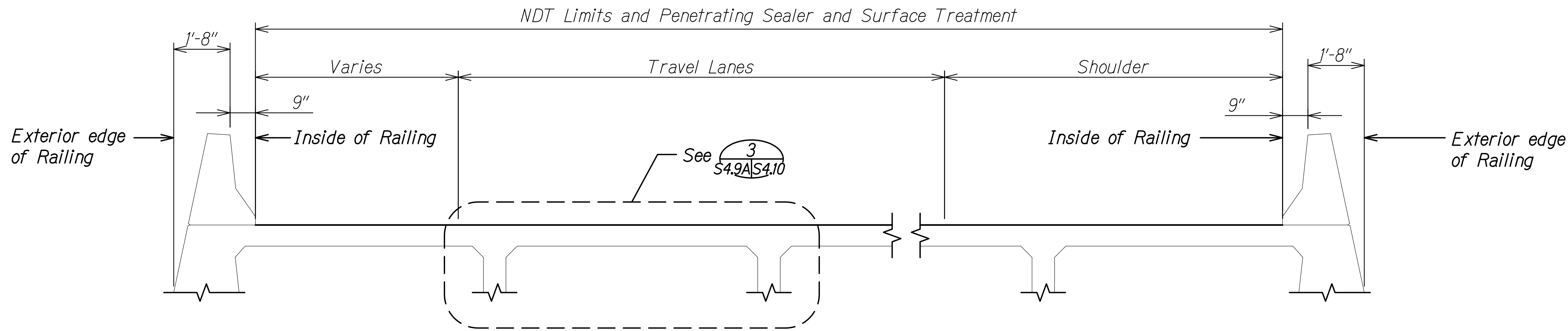
|          |  |                          |
|----------|--|--------------------------|
| 10/28/20 |  | Add. 1 - Revised Station |
| DATE     |  | REVISION                 |

ADD. 209

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

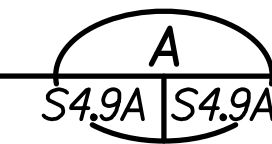
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| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO.   | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-------------|--------------|
| HAWAII              | HAW.  | NH-HI-1(276)     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



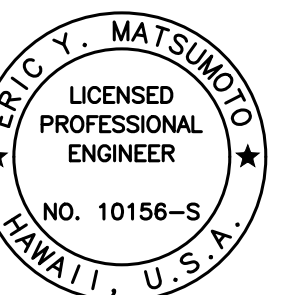
**TYPICAL RAMP BOX GIRDER DECK SECTION**  
**(RAMPS WA, WI, WD, EA, AE, IF, AW, DF AND PF SIMILAR)**

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



|               |                   |      |
|---------------|-------------------|------|
| 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\AVR-S0401 EXIST JOINT ADD1.DWG PLOT TIME: 10-29-20, 5:07 PM)



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*Eric Y. Matsumoto*  
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**

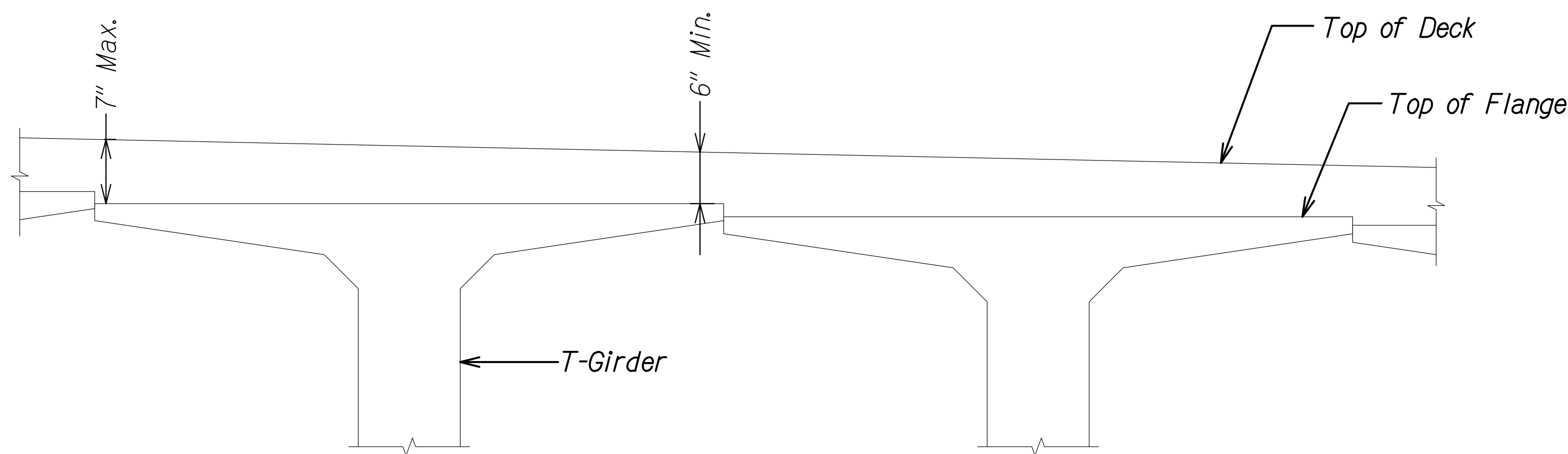
**INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS  
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2  
FEDERAL-AID PROJECT NO. NH-HI-1(276)**

Scale: As Noted Date: Aug. 2020

SHEET No. S4.9A OF 13 SHEETS

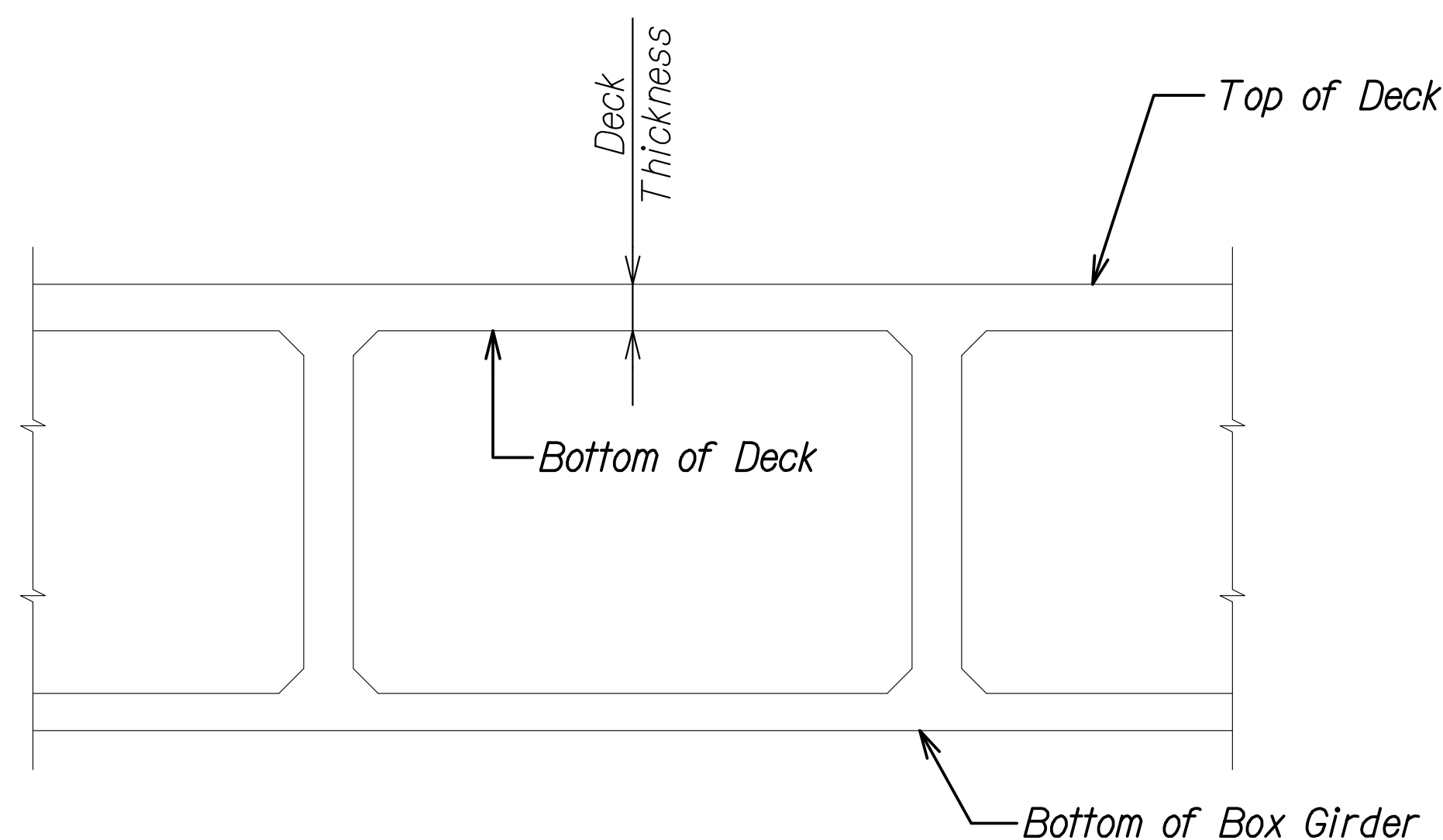
ADD. 209S-1

| 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"

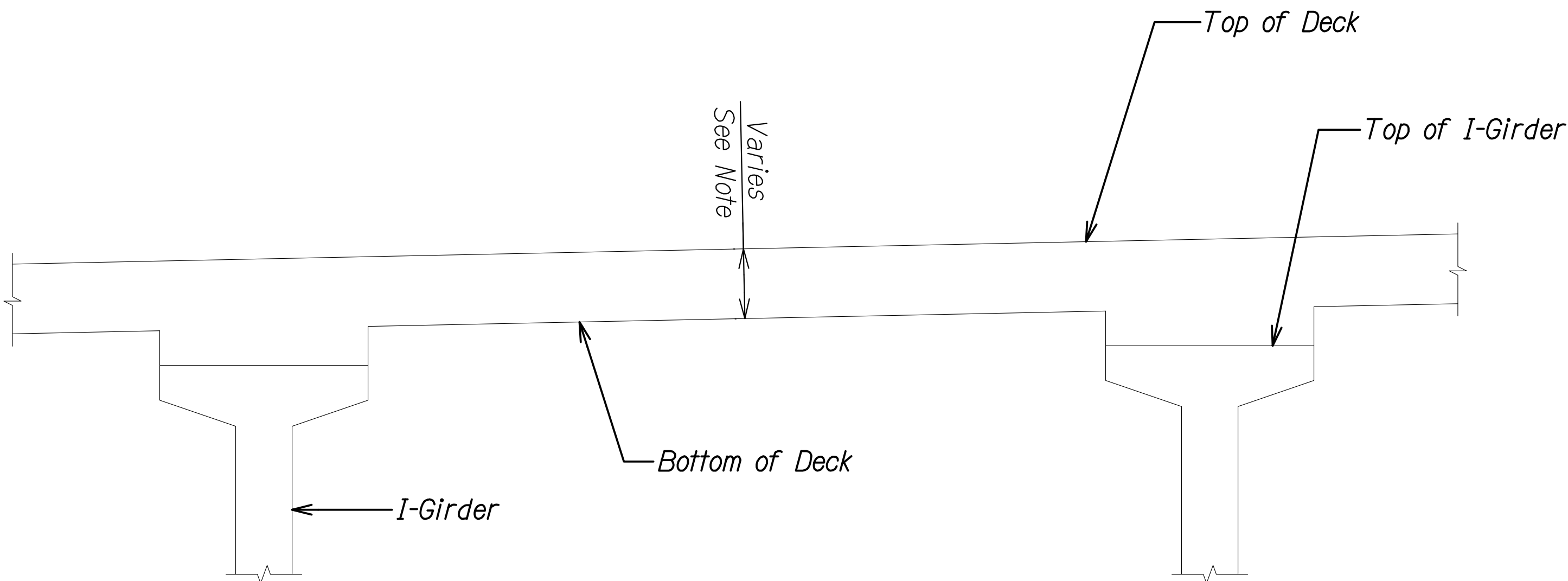
1  
S4.8 | S4.10



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

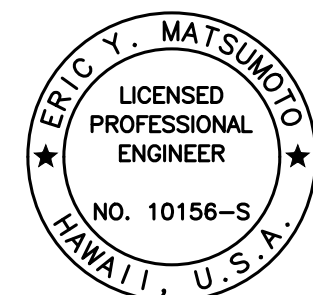
**TYPICAL BOX GIRDER DECK DETAIL**  
**THICKNESS FOR RAMPS WA, WI AND AE**  
Scale: 1/2" = 1'-0"

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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STATE OF HAWAII  
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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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4-30-22

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STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

DECK THICKNESS SCHEDULE

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS

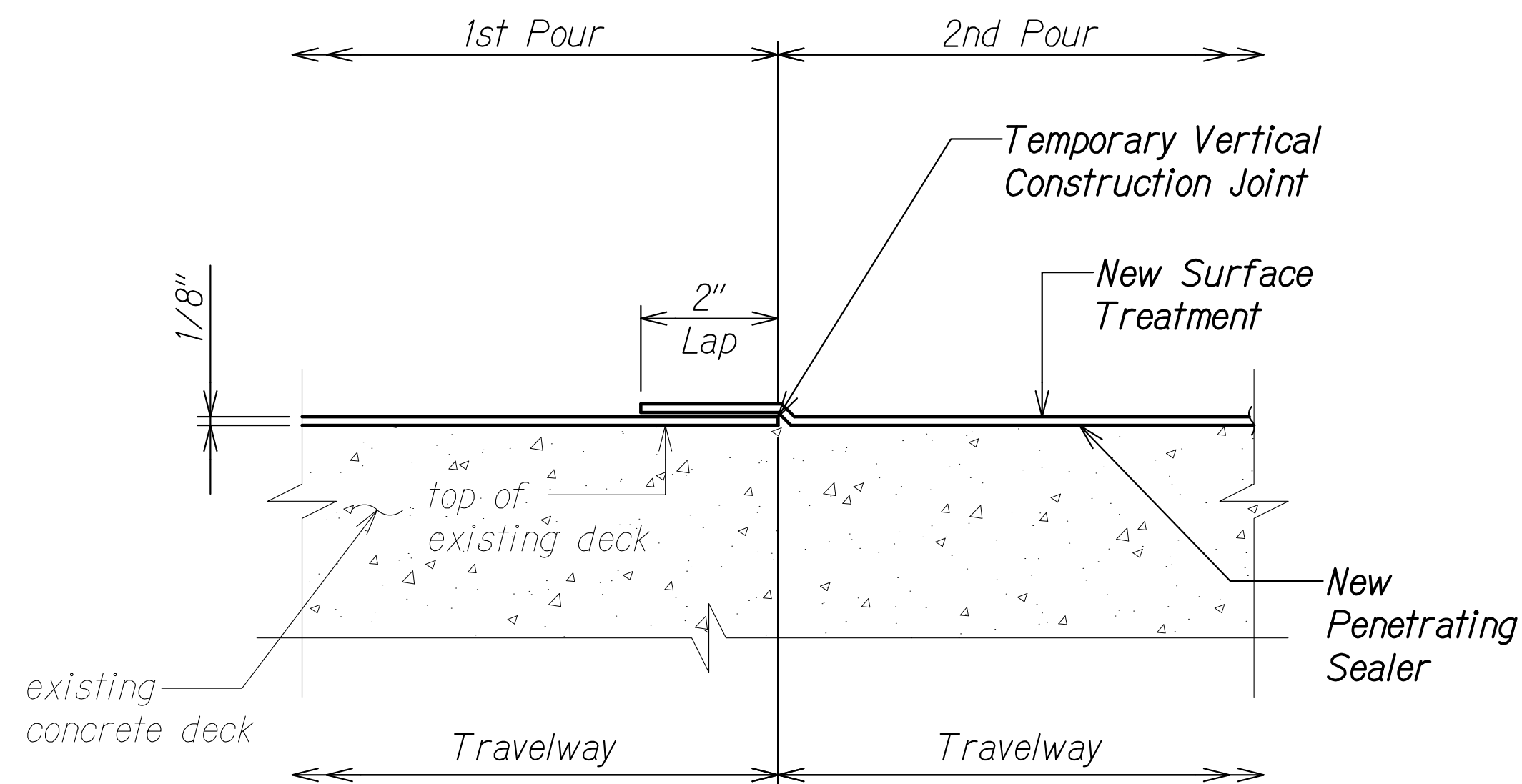
VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 2

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

Scale: NoneDate: Aug. 2020

SHEET No. S4.11 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        | 212       | 214          |



**TYPICAL SURFACE  
TREATMENT CONSTRUCTION JOINT**  
Scale: 6"=1'-0"

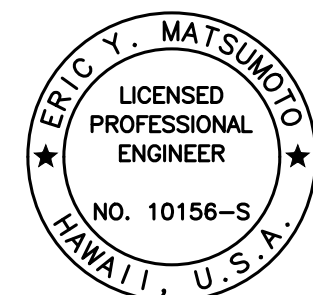


**Note:**

Surface Treatment lap shall be located at lane striping locations and not in the vehicle wheel path.

|               |                   |      |
|---------------|-------------------|------|
| 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\9-08-20 REVSD TSHT & SHCT\AVR-S0401 EXIST JOINT.DWG PLOT TIME: 09-08-20, 9:16 AM



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

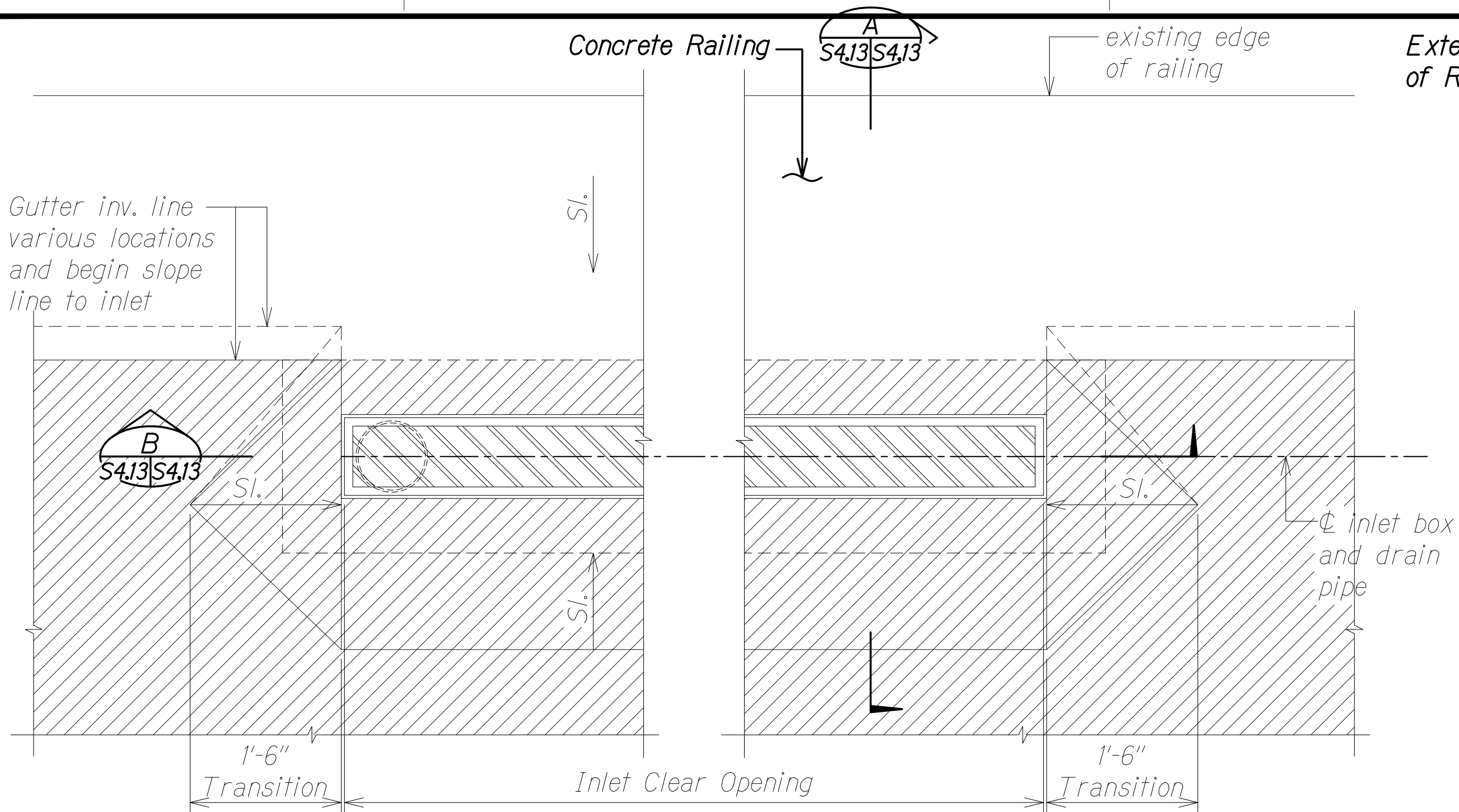
**DECK SECTION DETAILS**

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

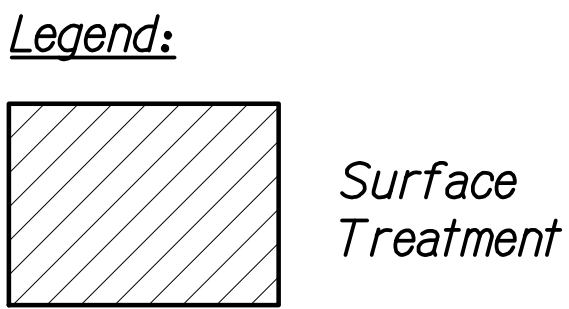
Scale: As Noted      Date: Aug. 2020

SHEET No. S4.12 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        | 213       | 214          |



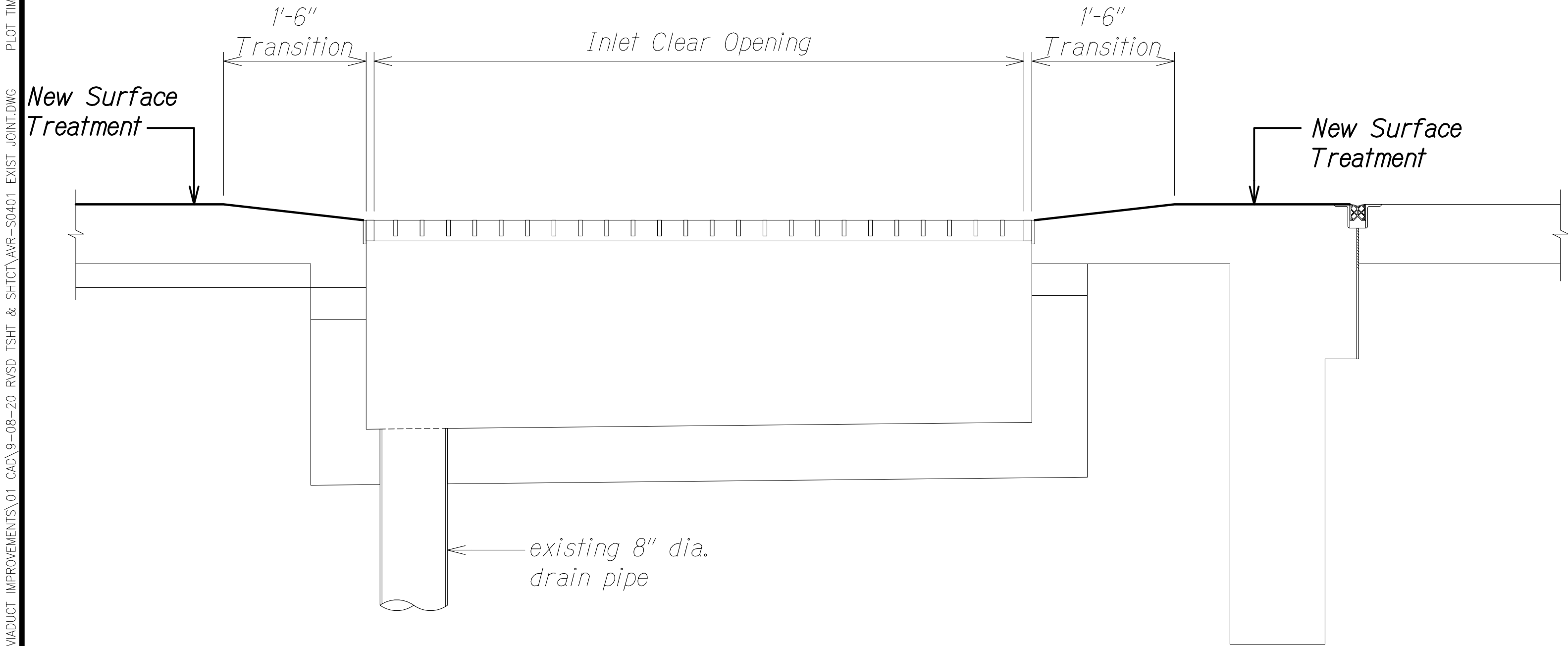
**PLAN - TYPICAL DECK DRAIN INLET BOX TYPE II**  
 Scale: 1" = 1'-0"



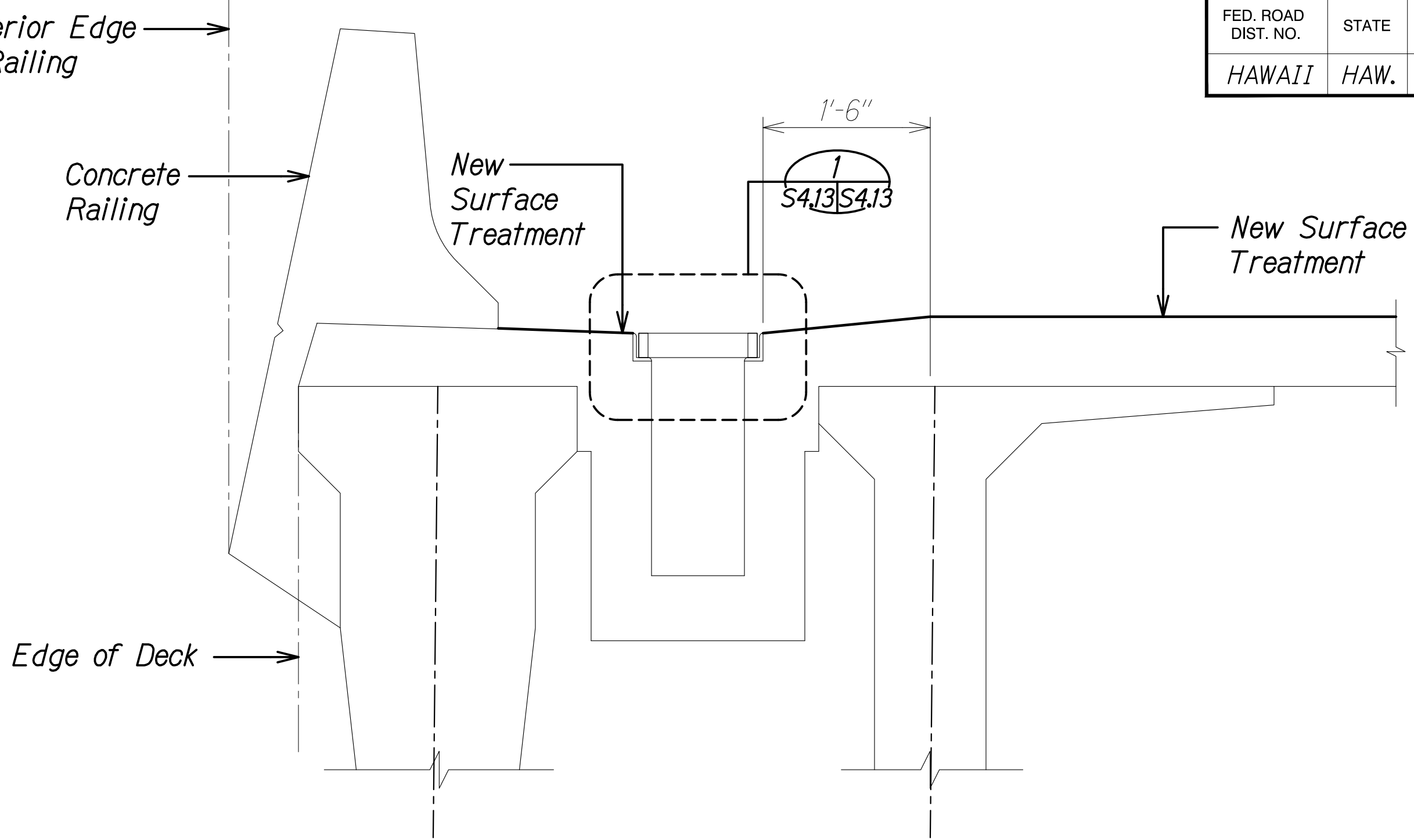
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|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK     | DRAWN BY          |      |
| No.           | DESIGNED BY       |      |
|               | CHECKED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

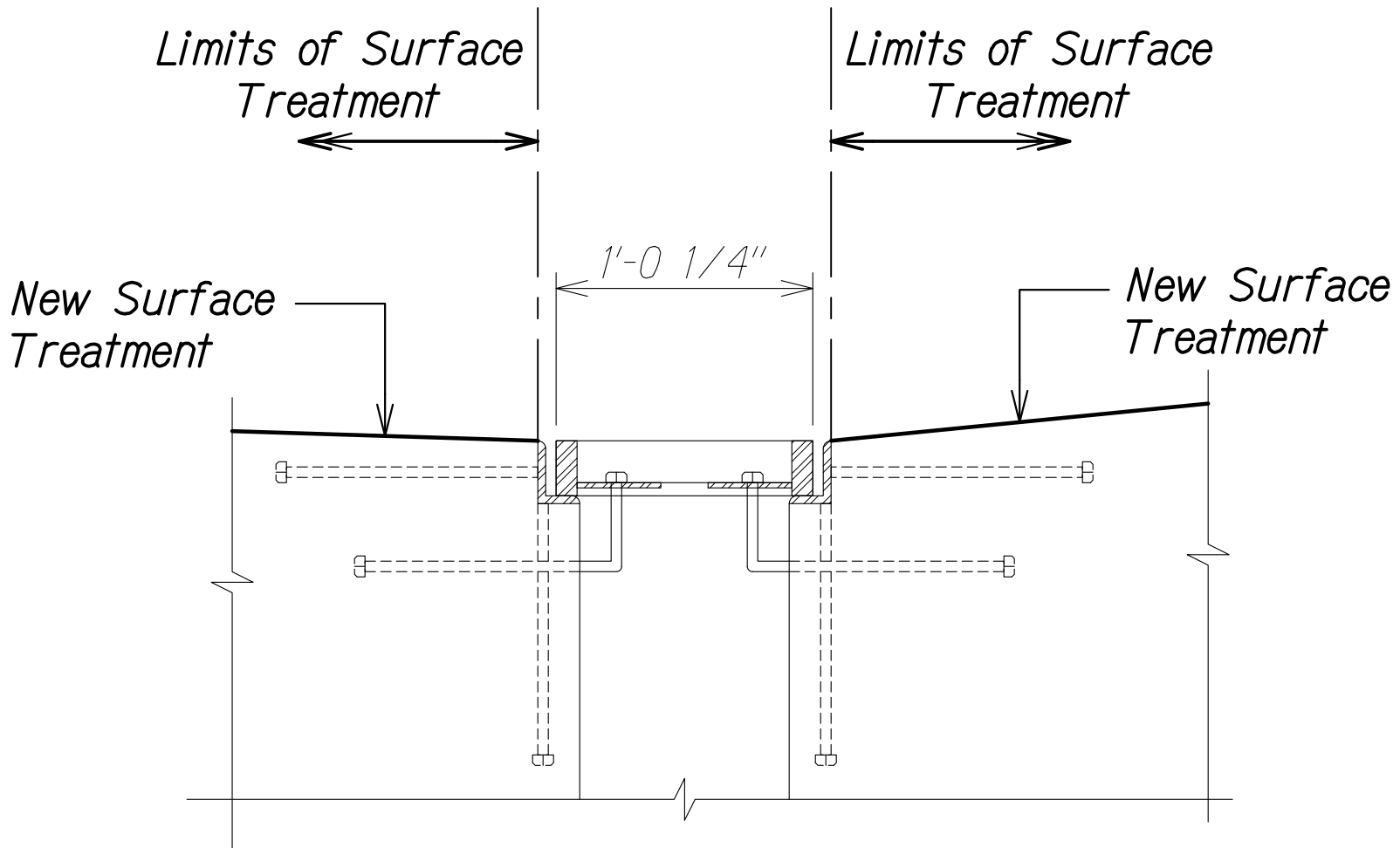
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**SECTION**  
 Scale: 1" = 1'-0"



**SECTION**  
 Scale: 1" = 1'-0"



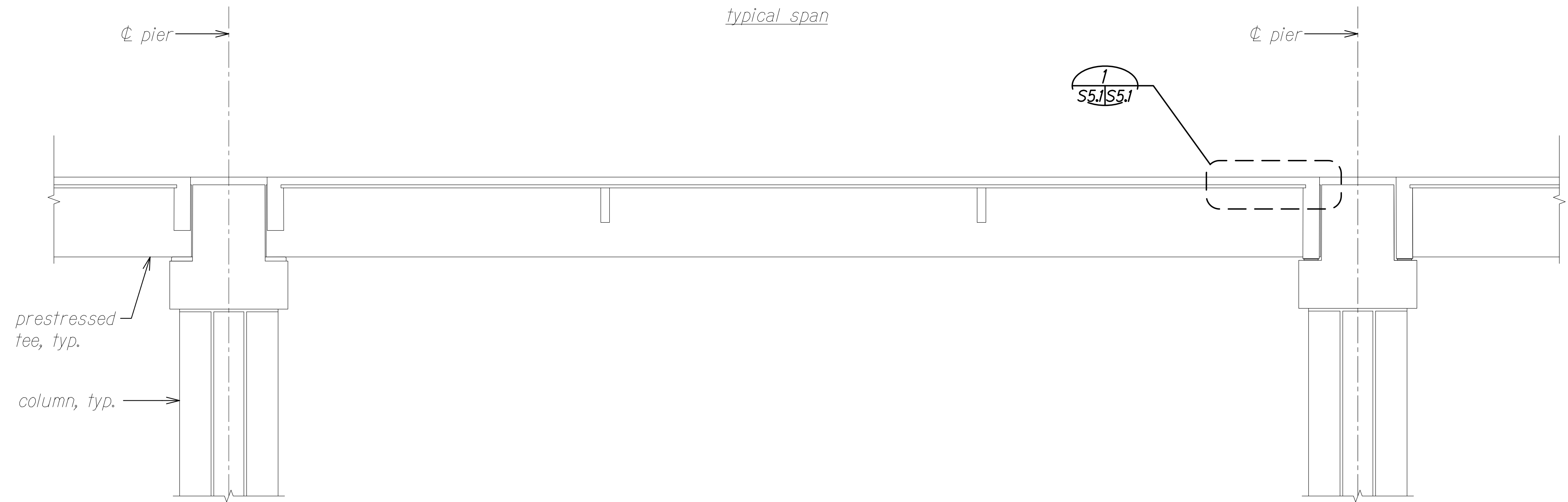
**DETAIL**  
 Scale: 1 1/2" = 1'-0"

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

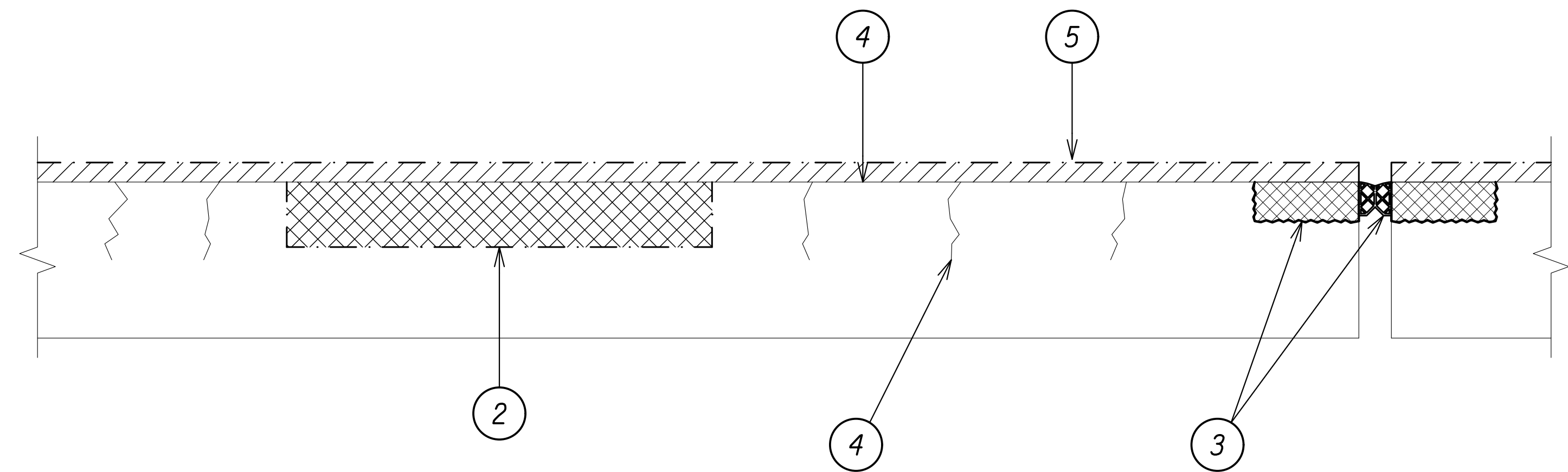
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**DRAIN INLET 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. **S4.13** 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



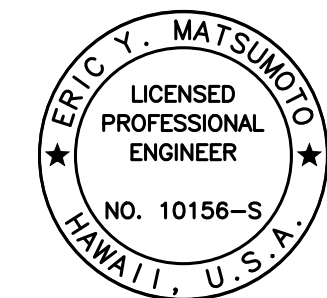
**DETAIL**  
Scale: 3" = 1'-0"  
1  
S5.1/S5.1

**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



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

**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