FED. ROAD	STATE	FEDERAL AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	ER-24(008)	2023	13	23

#### STRUCTURAL GENERAL NOTES

#### **GENERAL SPECIFICATIONS:**

A. State of Hawaii Department of Transportation Hawaii Standard Specifications Road and Bridge Construction 2005 together with Special Provisions prepared for this contract.

#### **GENERAL:**

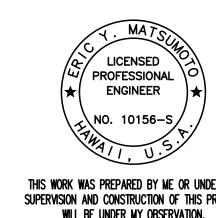
- A. The contract documents are complementary. Any requirement in one document is as binding as though occurring in all. A stricter requirement prevails over any less strict requirement. The stricter requirement will be the requirement that provides the greater product life, durability, strength and function.
- B. Existing conditions are shown on the drawings to the best of the designer's knowledge and are intended to aid the contractor during construction. Bridge dimensions, where shown on the drawings, are based on available as-built plans and field measurements. Existing dimensions and elevations shown may not be exact and are provided for information only. Contractor shall field verify all existing dimensions and elevations prior to construction. All discrepancies shall be promptly called to the attention of the Engineer and shall be resolved prior to proceeding with any construction work.
- C. Drawings are based on 1929 As-Built drawings and field measurements taken on November 11, 2021.
- D. Bridge is posted at 8 tons.
- E. No storage of materials or heavy equipment is allowed on the existing bridge.
- F. Contractor shall submit for approval construction procedure and equipment list for concrete grout filled concrete fabric bags.

# CONSTRUCTION SEQUENCE

- 1. Install BMPs.
- 2. Remove all loose material, soft and otherwise unsuitable subgrade soils, sharp objects and debris from the location of work and properly dispose.
- 3. Install empty concrete fabric bags into the scour cavity.
- 4. Install required temporary formwork.
- 5. Pump concrete grout into concrete fabric bags.
- 6. Remove BMPs.

### CONSTRUCTION SEQUENCE NOTES

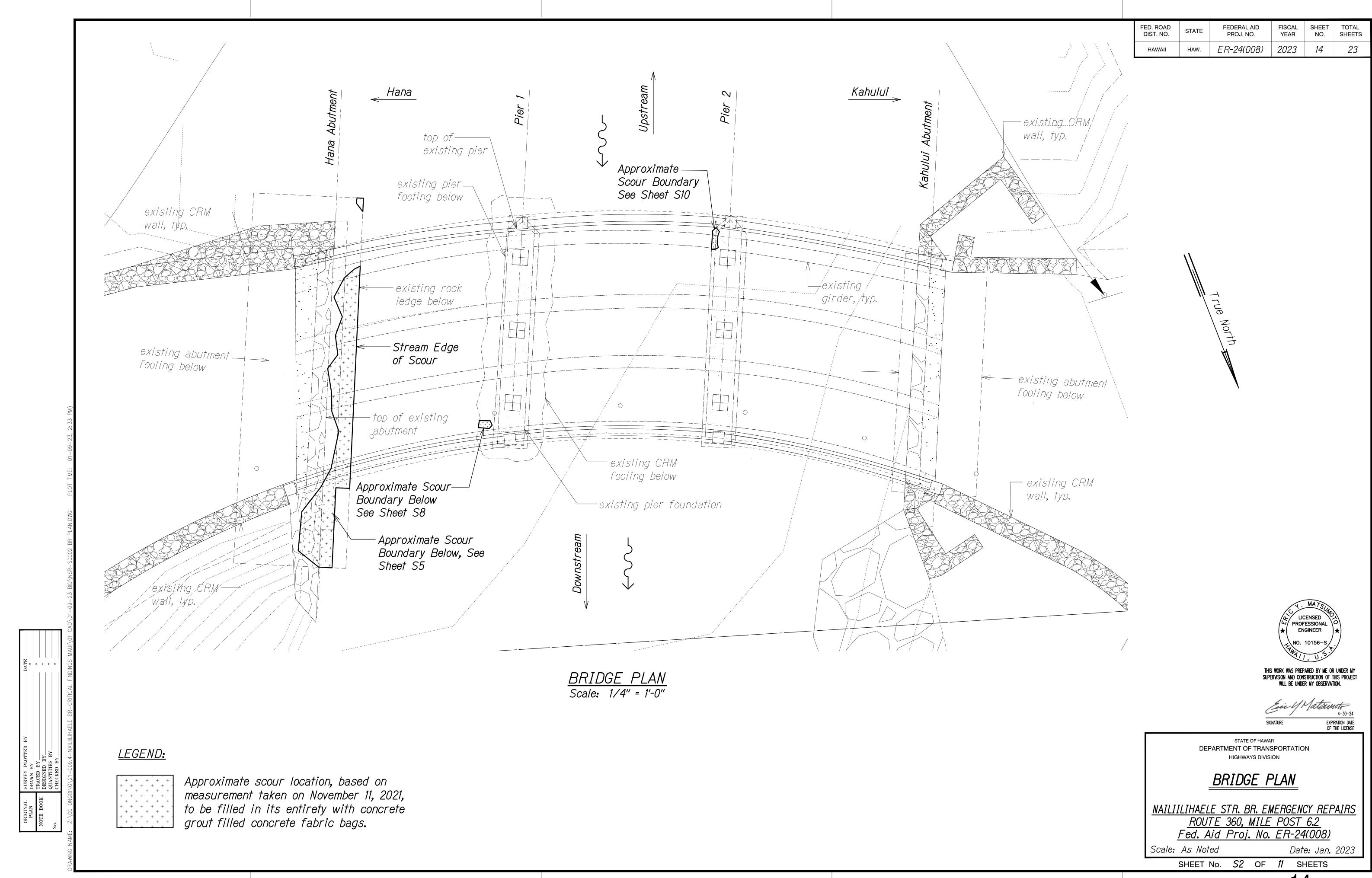
- 1. Order of Construction Sequence shall not be changed unless approved by the Engineer.
- 2. Each sequence stage shall be completely finished before proceeding to the next stage unless otherwise noted. The Engineer will be the sole judge of whether the sequence stage is complete, and may direct the Contractor to stop work on a sequence stage to complete work on the preceding sequence stage.

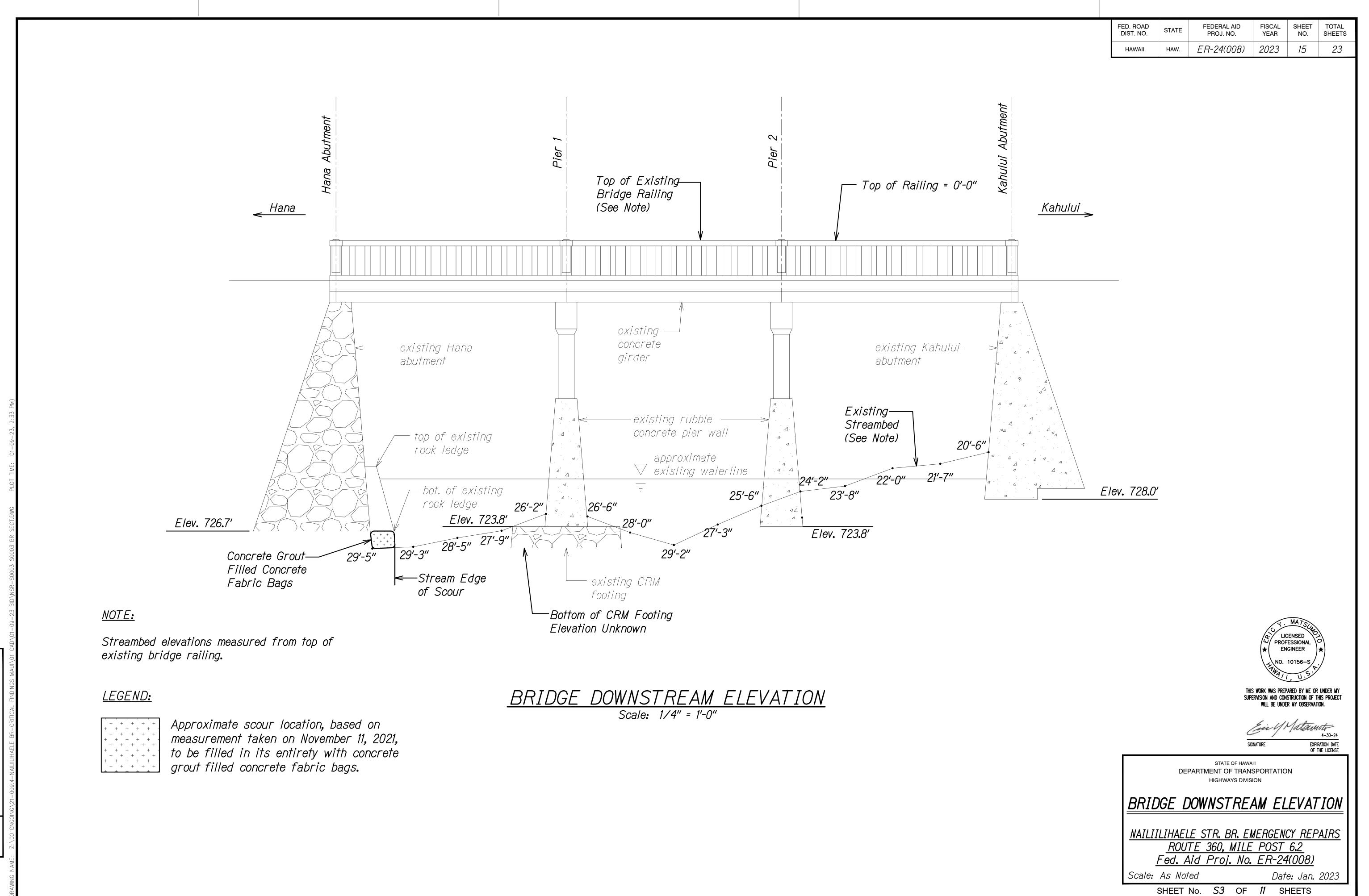


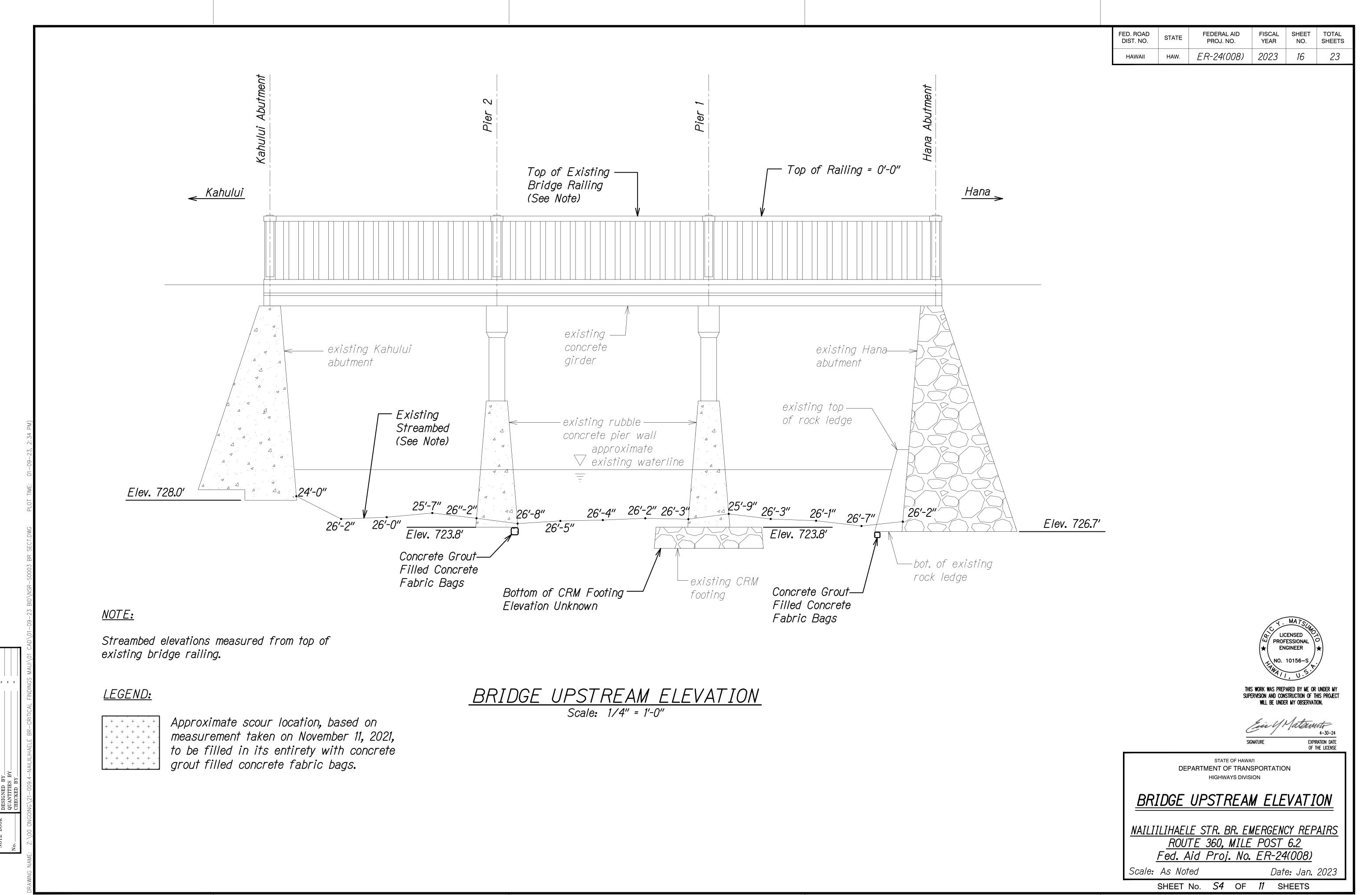


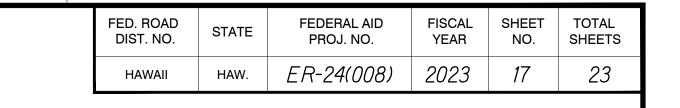
SHEET No. S1 OF 11 SHEETS

STATE OF HAWAI'I STRUCTURAL GENERAL NOTES AND CONSTRUCTION SEQUENCE NAILIILIHAELE STR. BR. EMERGENCY REPAIRS ROUTE 360, MILE POST 6.2 Fed. Aid Proj. No. ER-24(008) Date: Jan. 2023

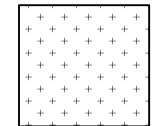








### <u>LEGEND:</u>



Approximate scour location, based on measurement taken on November 11, 2021, to be filled in its entirety with concrete grout filled concrete fabric bags.

Station	(Y) High (Inches)	(X) Deep (Inches)
(-) 0+08	8	24
(-) 0+06	10	54
(-) 0+04	12	50
(-) 0+02	16	36
0+00	12	34
0+02	22	26
0+04	16	22
0+06	24	16
0+08	23	26
0+10	24	30
0+12	24	36
0+14	24	24
0+16	16	28
0+18	25	20
0+20	18	26
0+22	0	20
0+28	6	6



		Sta. 0+00
		+ + + + + + + + + + + + + + + + + + +
DATE	existing CRM	+ + + + + + + + + + + + + + + + + + +
VEY PLOTTED BY  WN BY  CED BY  IGNED BY  ANTITIES BY  CKED BY	Wall, Typ.  Wall, Typ.	Downstream

HANA ABUTMENT FOUNDATION PLAN

Scale: 3/8" = 1'-0"

existing CRM ----

wall, typ.

-Edge of Bridge

Deck Above

Sta. 0+28

Sta. 0+25

rock ledge

rock ledge

Sta. 0+20

Sta. 0+15

Sta. 0+10

Sta. 0+05

Deck Above

-Edge of Bridge

-existing abutment footing

-Stream Edge of Scour

existing boulder

-top of existing

-bottom of existing

existing boulder

AS-BUILT DRAWINGS This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field GLOBAL SPECIALTY CONTRACTORS, INC. 5/14/24

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

EXPIRATION DATE OF THE LICENSE

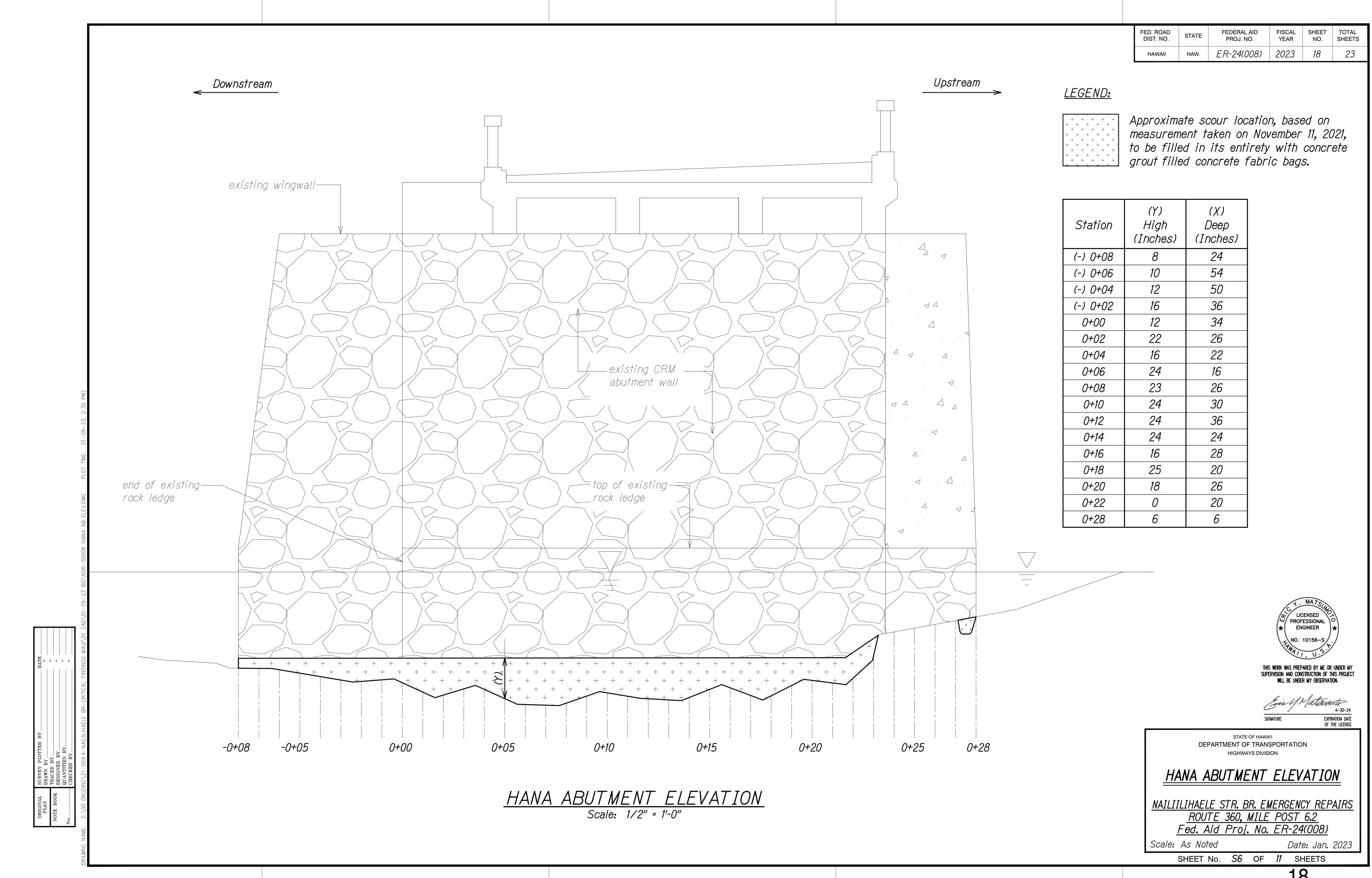
STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

HANA ABUTMENT FOUNDATION PLAN

NAILIILIHAELE STR. BR. EMERGENCY REPAIRS ROUTE 360, MILE POST 6.2 Fed. Aid Proj. No. ER-24(008)

Scale: As Noted

Date: Jan. 2023 SHEET No. S5 OF 11 SHEETS

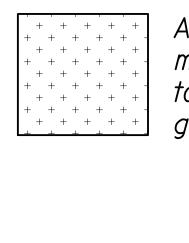


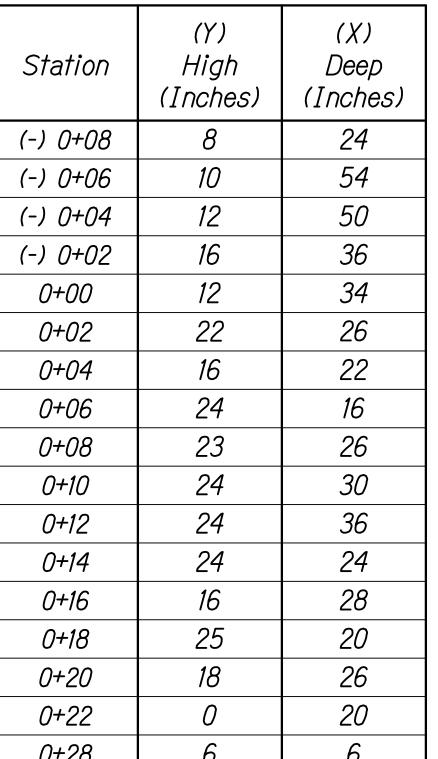
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-24(008)	2023	19	23

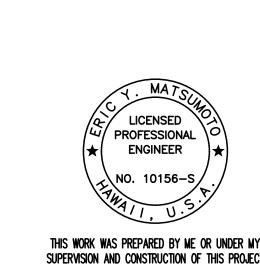
#### <u>Legend:</u>

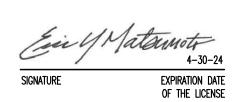
Approximate scour location, based on measurement taken on November 11, 2021, to be filled in its entirety with concrete grout filled concrete fabric bags.

		r
Station	(Y) High (Inches)	(X) Deep (Inches)
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0+06	24	16
0+08	23	26
0+10	24	30
0+12	24	36
0+14	24	24
0+16	16	28
0+18	25	20
0+20	18	26
0+22	0	20
0+28	6	6









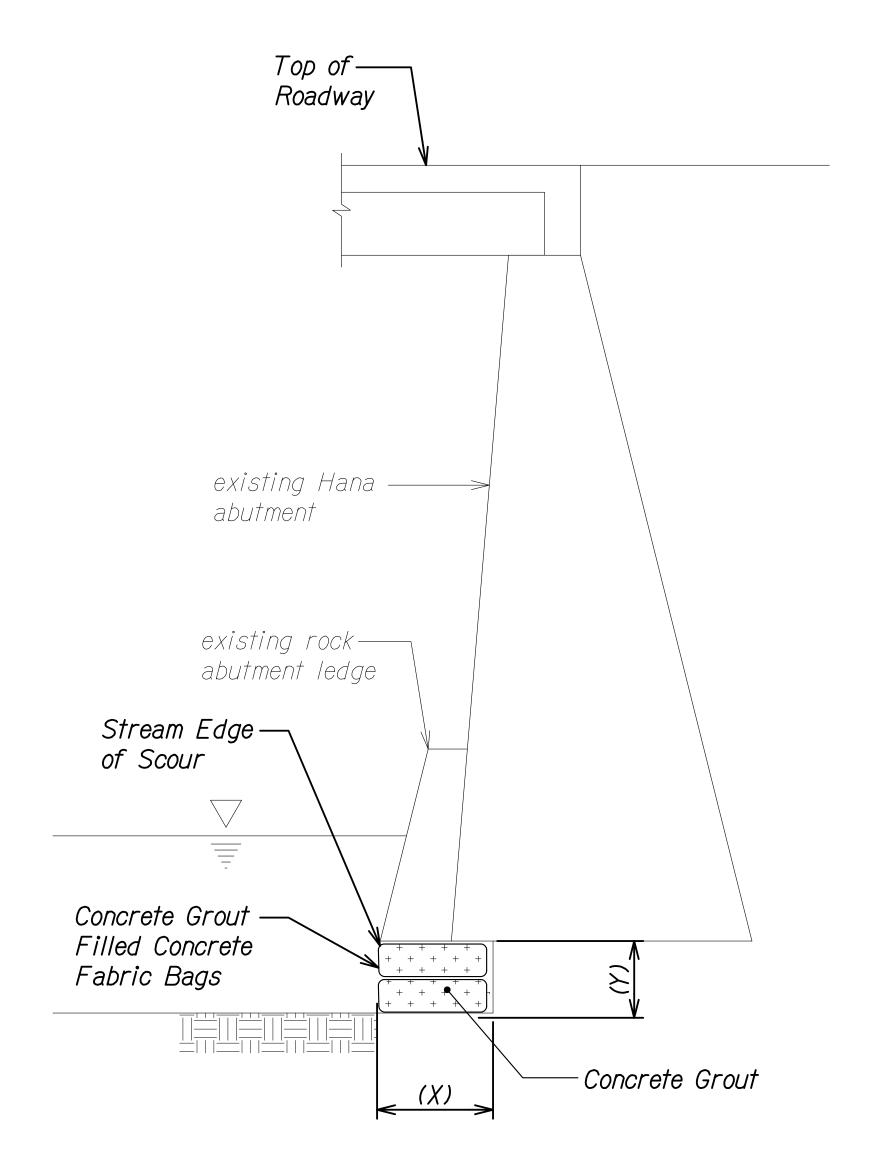
STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

### HANA ABUTMENT SECTIONS

NAILIILIHAELE STR. BR. EMERGENCY REPAIRS ROUTE 360, MILE POST 6.2 Fed. Aid Proj. No. ER-24(008)

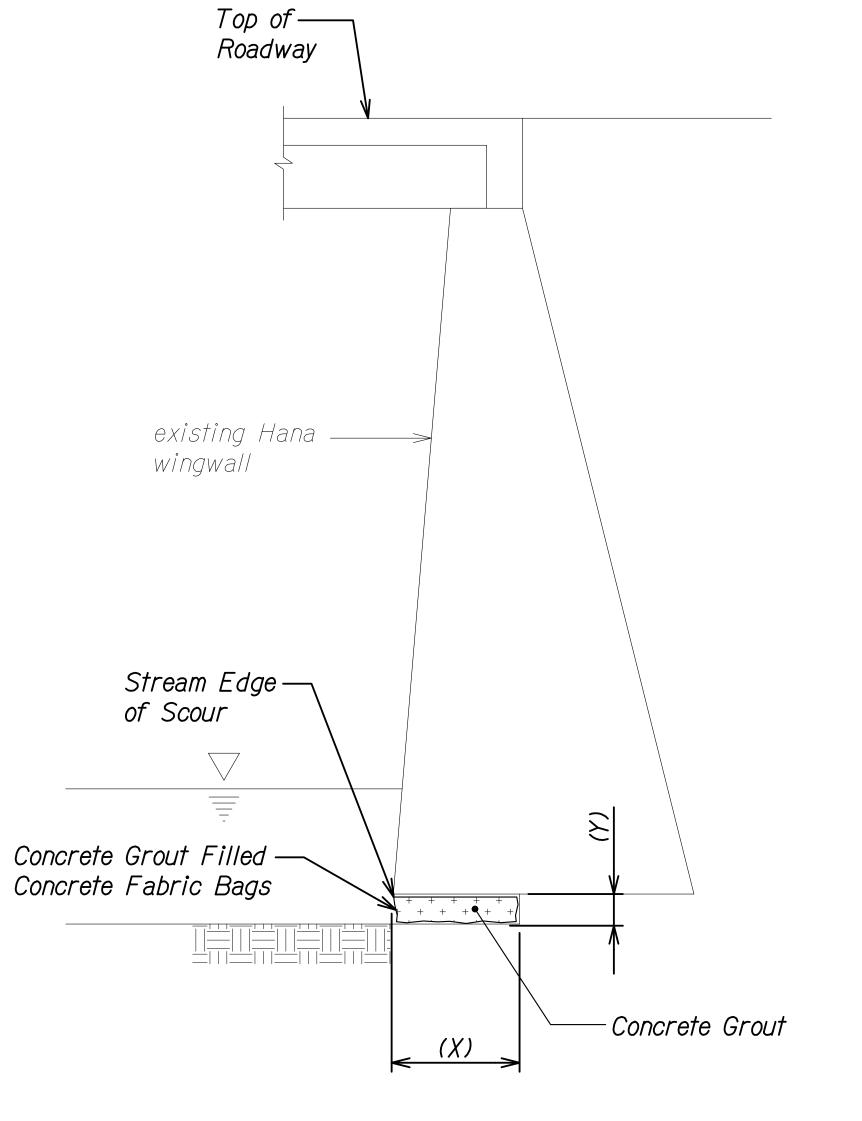
Scale: As Noted Date: Jan. 2023

SHEET No. S7 OF 11 SHEETS



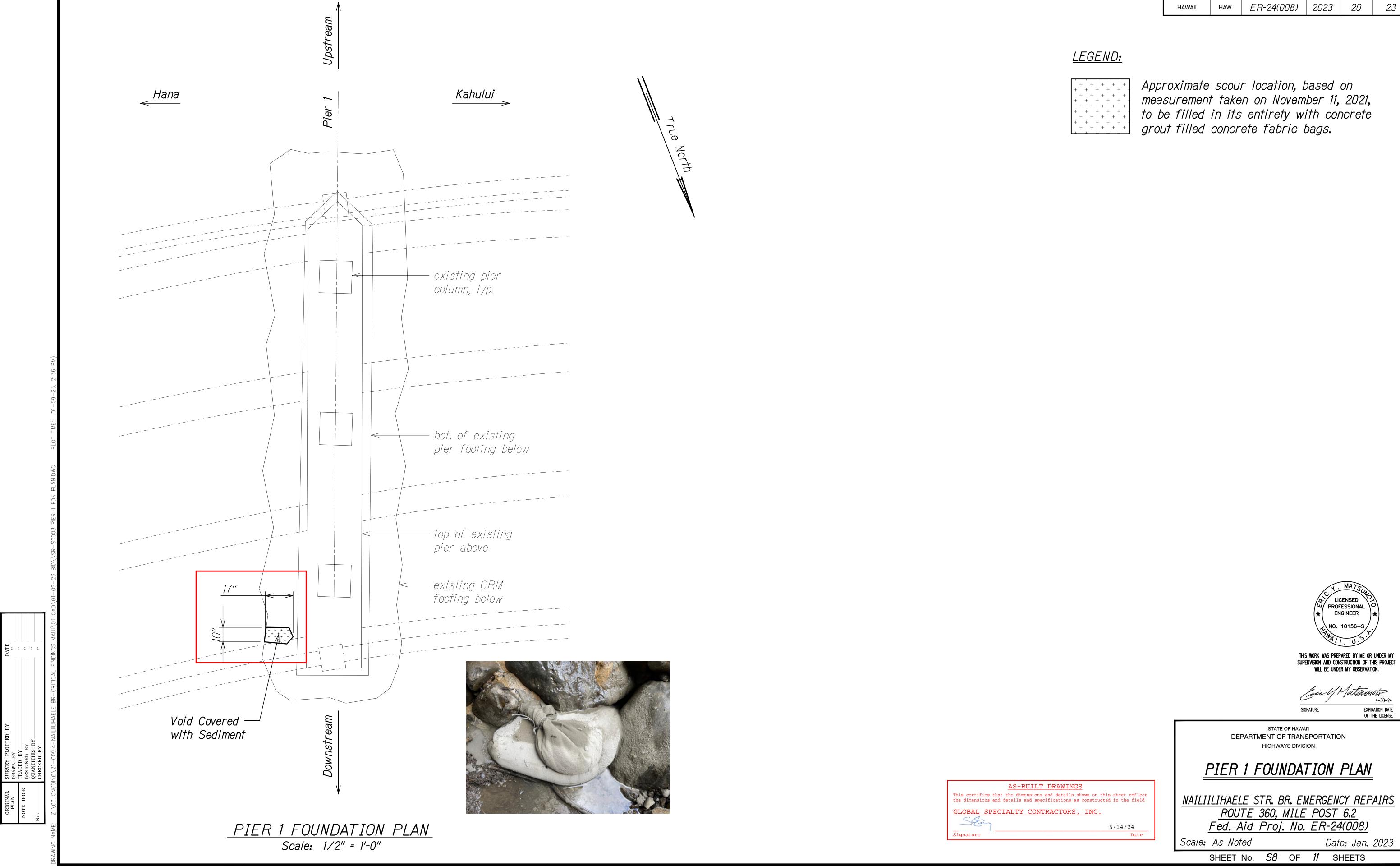
HANA ABUTMENT SECTION AT BRIDGE CENTERLINE

Scale: 3/8" = 1'-0"



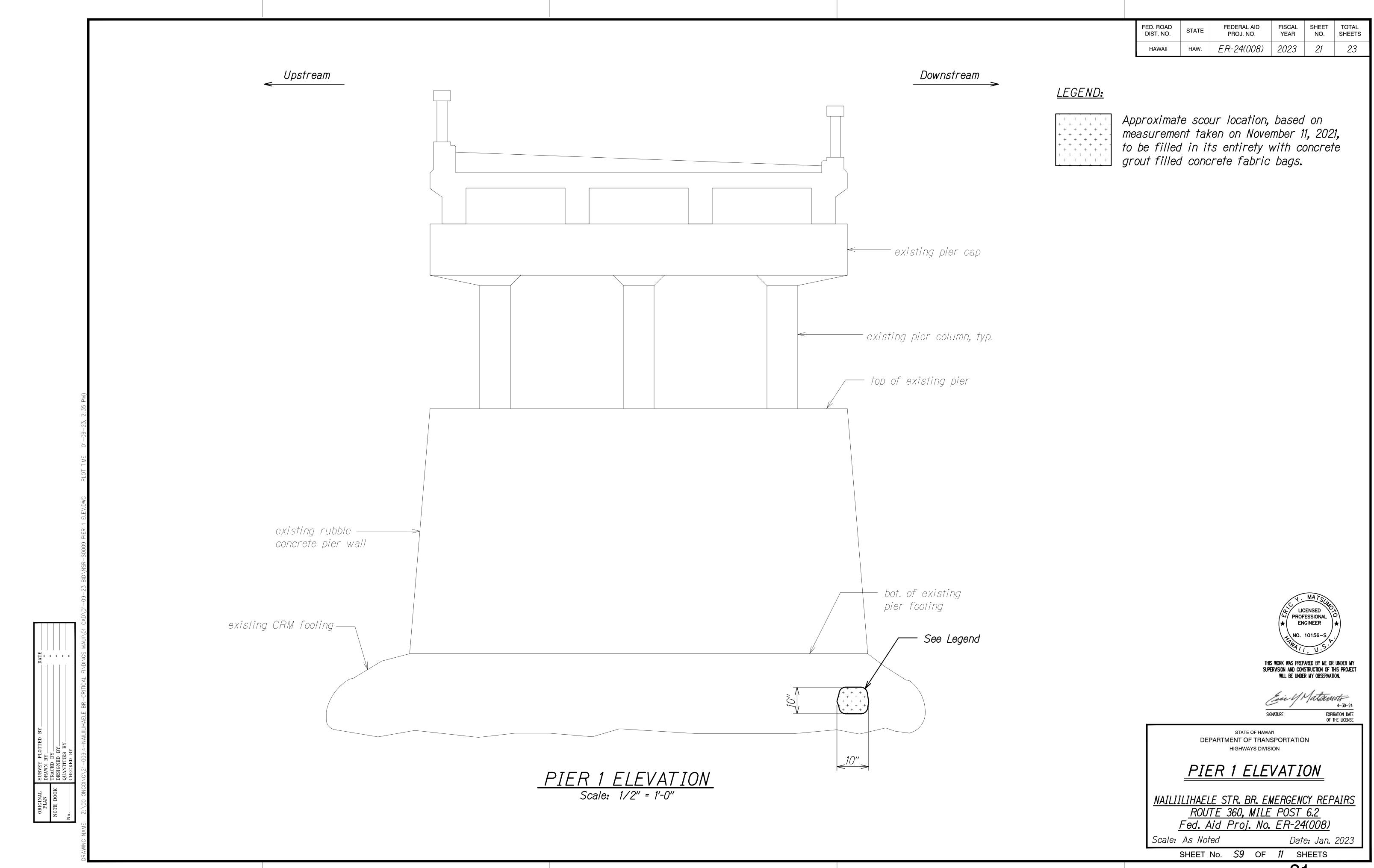
HANA WINGWALL SECTION AT DOWNSTREAM Scale: 3/8" = 1'-0"

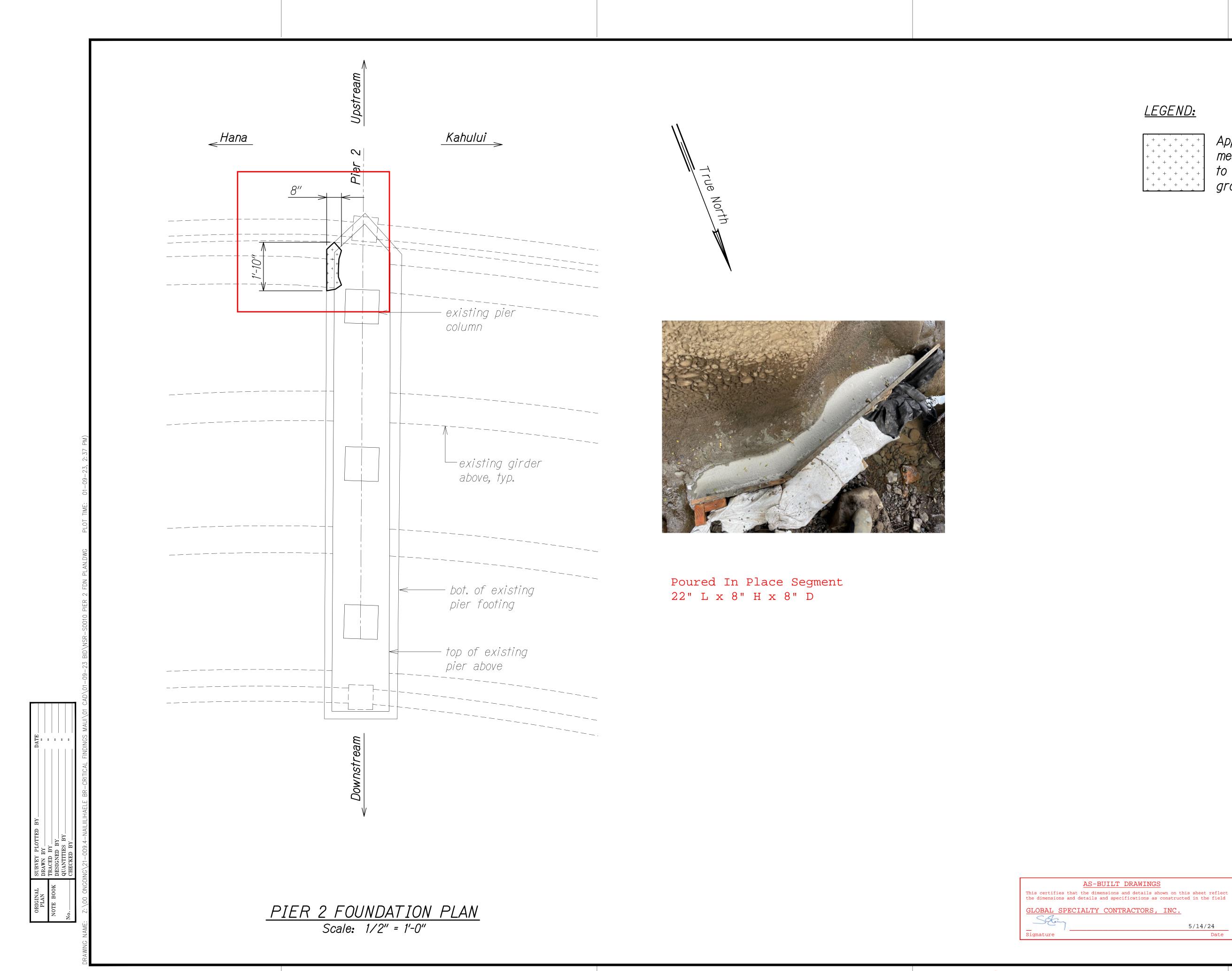
B 54 S7



EXPIRATION DATE OF THE LICENSE

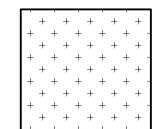
FED. ROAD DIST. NO.





FED. ROAD DIST. NO. ER-24(008) 2023 22 23

### <u>LEGEND:</u>



Approximate scour location, based on measurement taken on November 11, 2021, to be filled in its entirety with concrete grout filled concrete fabric bags.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAI'I

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

## PIER 2 FOUNDATION PLAN

NAILIILIHAELE STR. BR. EMERGENCY REPAIRS

ROUTE 360, MILE POST 6.2

Fed. Aid Proj. No. ER-24(008)

Scale: As Noted

Date: Jan. 2023 SHEET No. S10 OF 11 SHEETS

AS-BUILT DRAWINGS

5/14/24 Date

