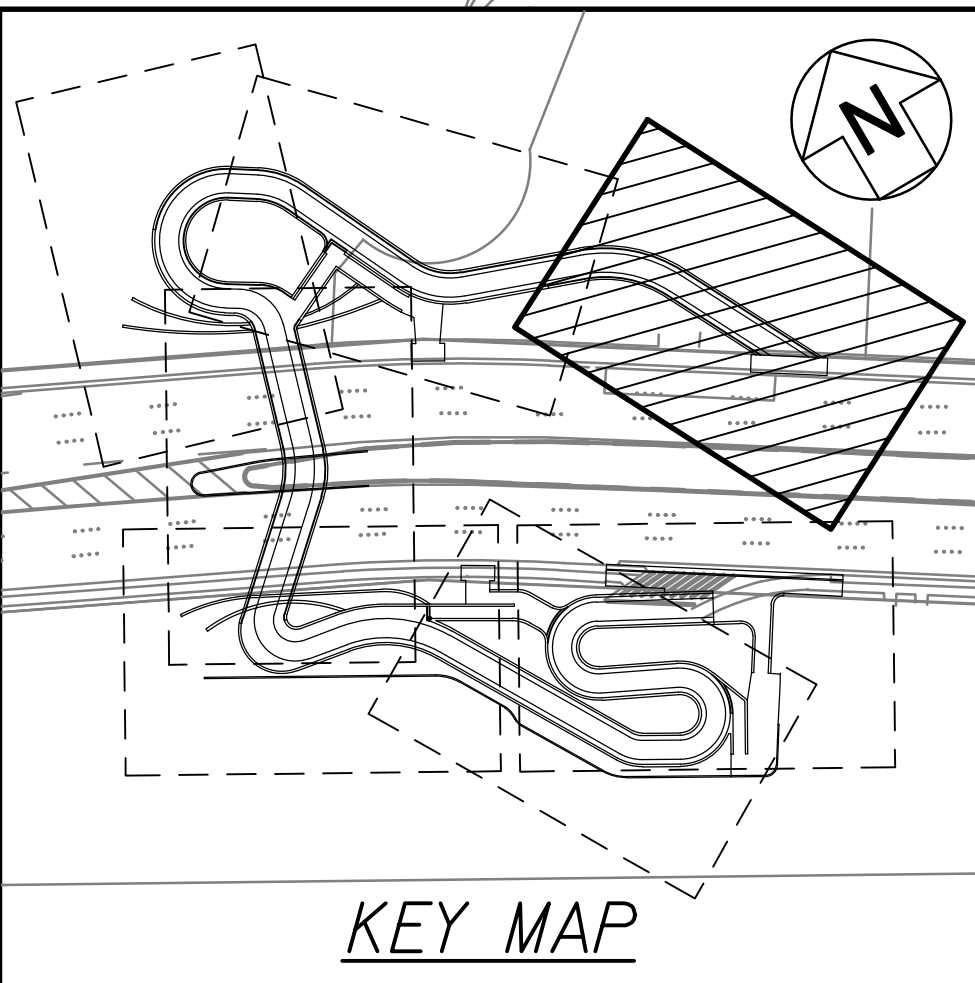
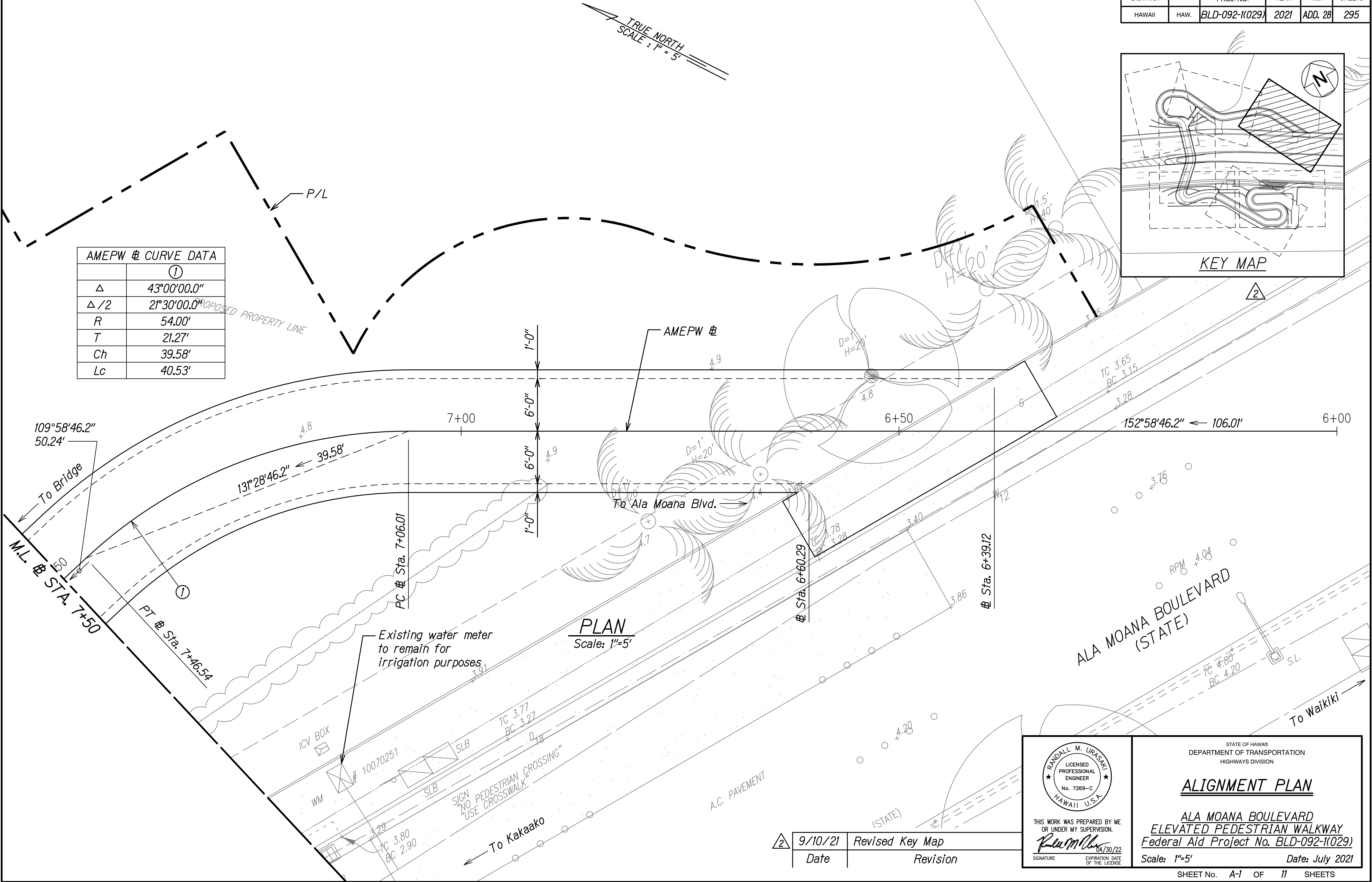


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 28	295



AMEPW @ CURVE DATA	
	①
Δ	43°00'00.0"
$\Delta/2$	21°30'00.0"
R	54.00'
T	21.27'
Ch	39.58'
Lc	40.53'



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

△2	9/10/21	Revised Key Map
	Date	Revision

★

RANDALL M. URASAKI

★

LICENSED PROFESSIONAL ENGINEER

No. 7269-C

HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Randall M. Urasaki

SIGNATURE

04/30/22

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ALIGNMENT PLAN

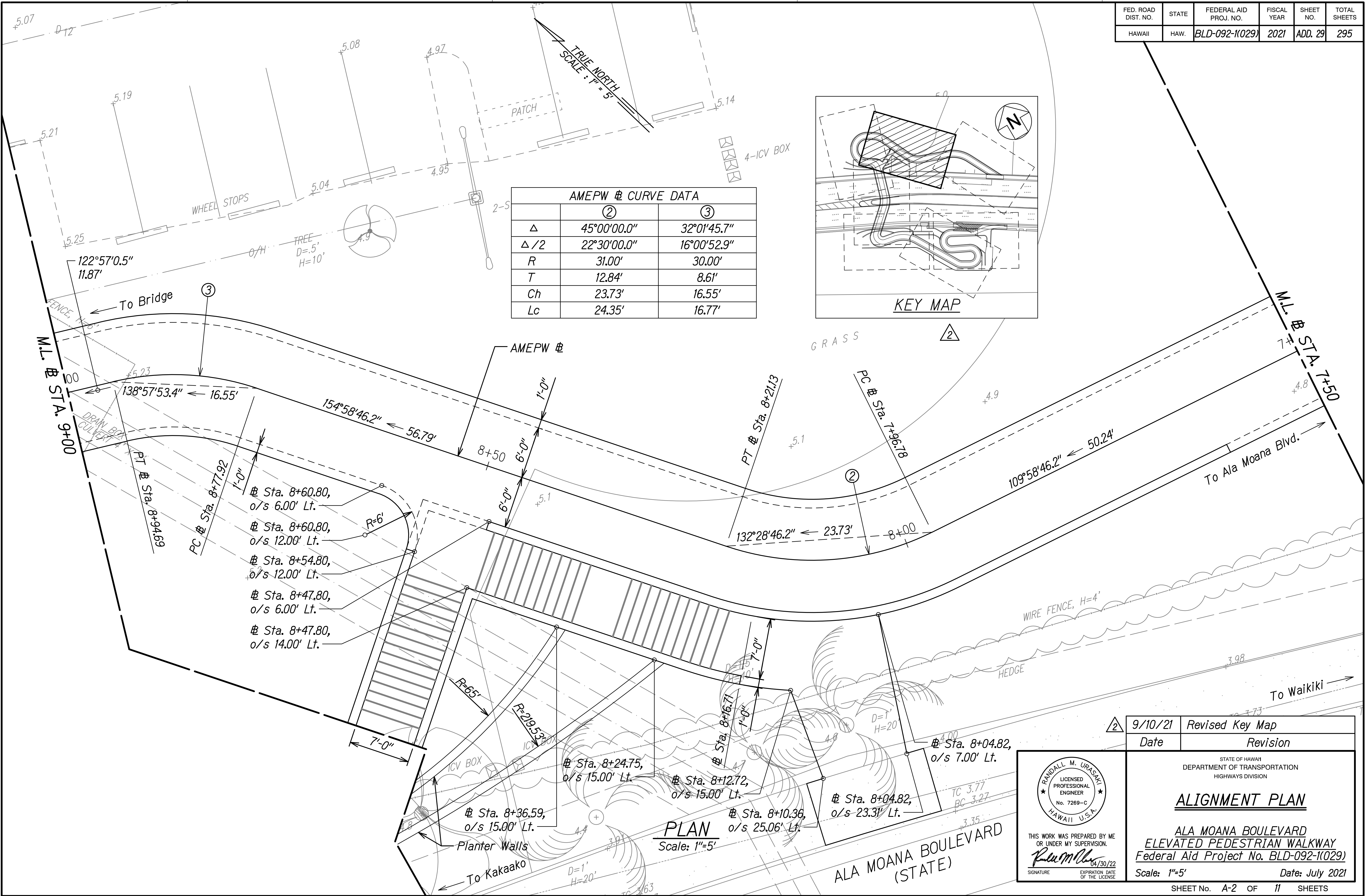
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: 1"=5' Date: July 2021

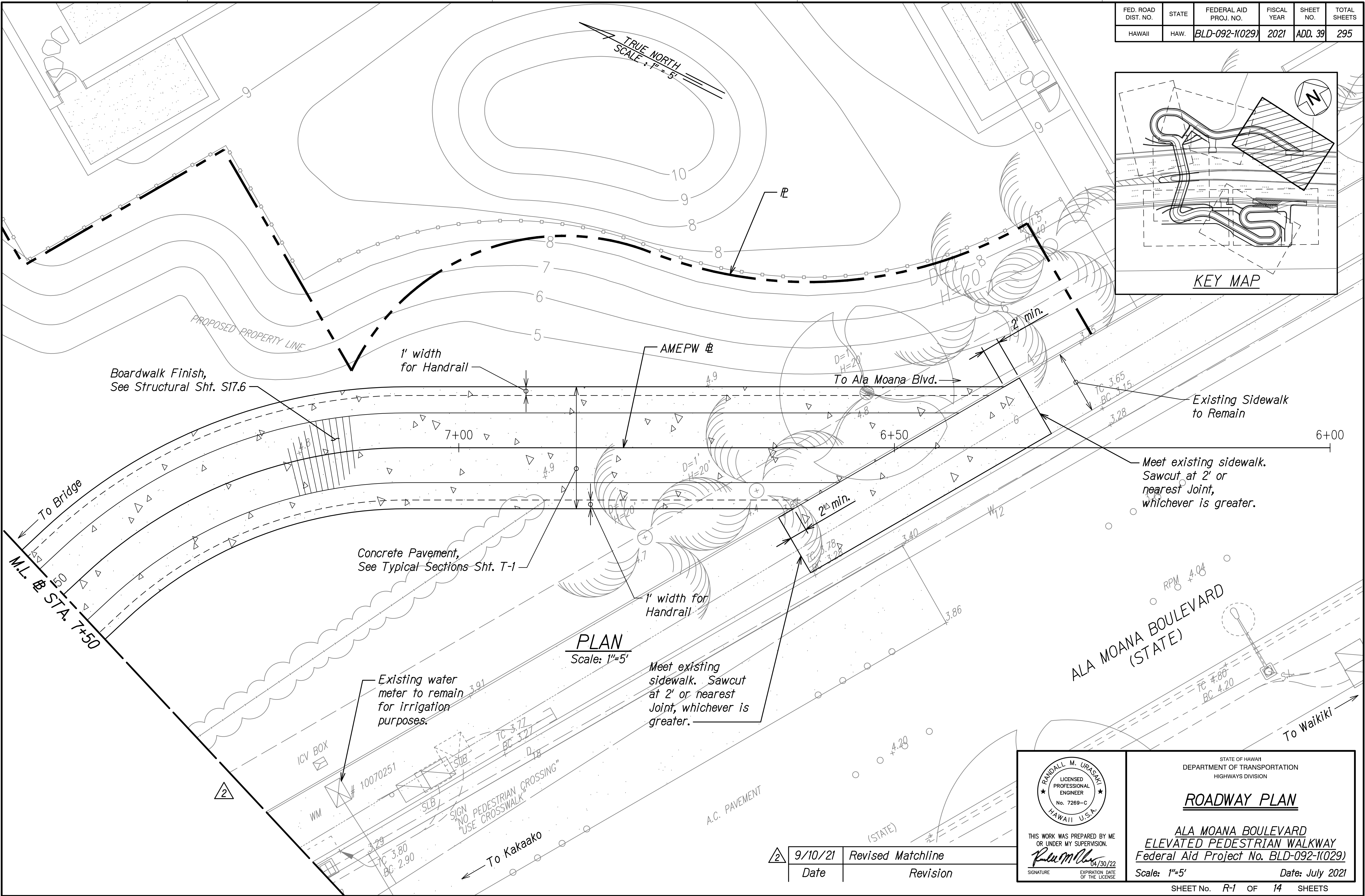
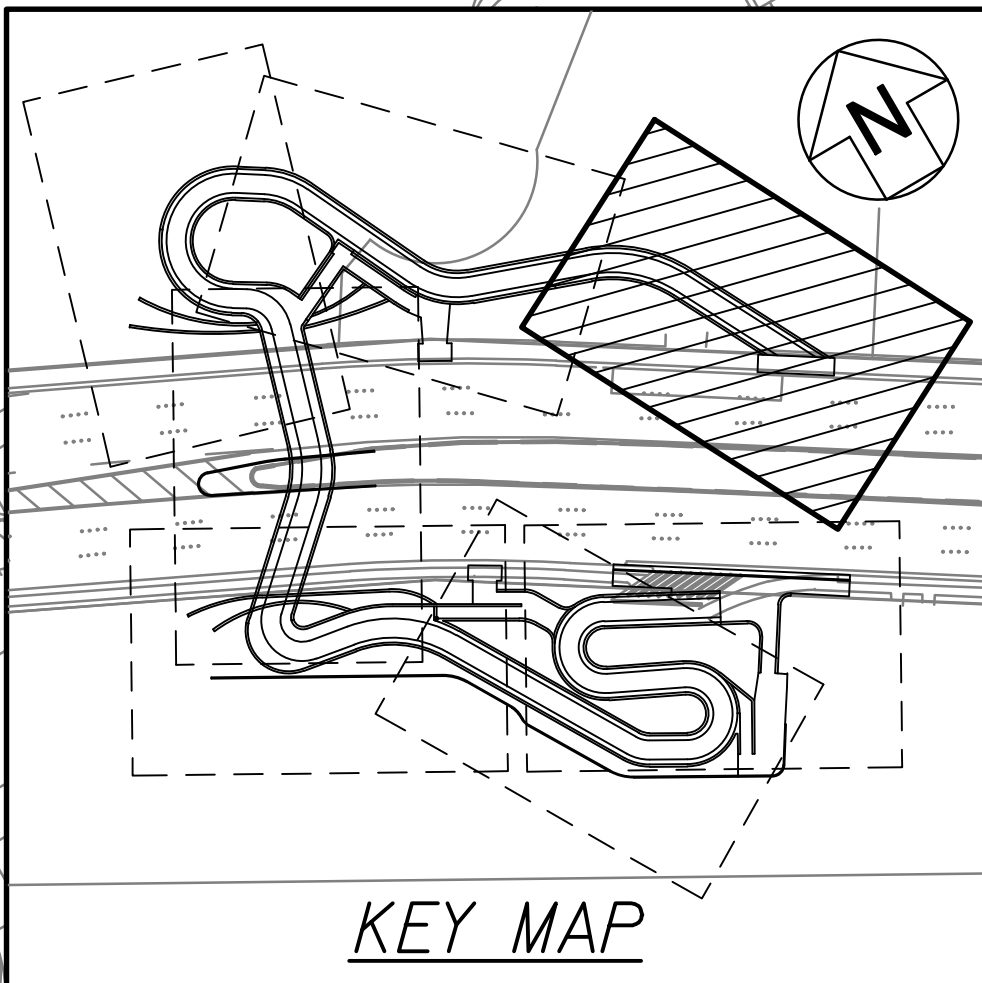
SHEET No. A-1 OF 11 SHEETS

ADD. 28

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 29	295



FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 39	295



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

△	9/10/21	Revised Matchline
	Date	Revision

RANDALL M. URASAKI

LICENSED PROFESSIONAL ENGINEER

No. 7269-C

HAWAII U.S.A.

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R. M. Urasaki

SIGNATURE

04/30/22

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ROADWAY PLAN

ALA MOANA BOULEVARD

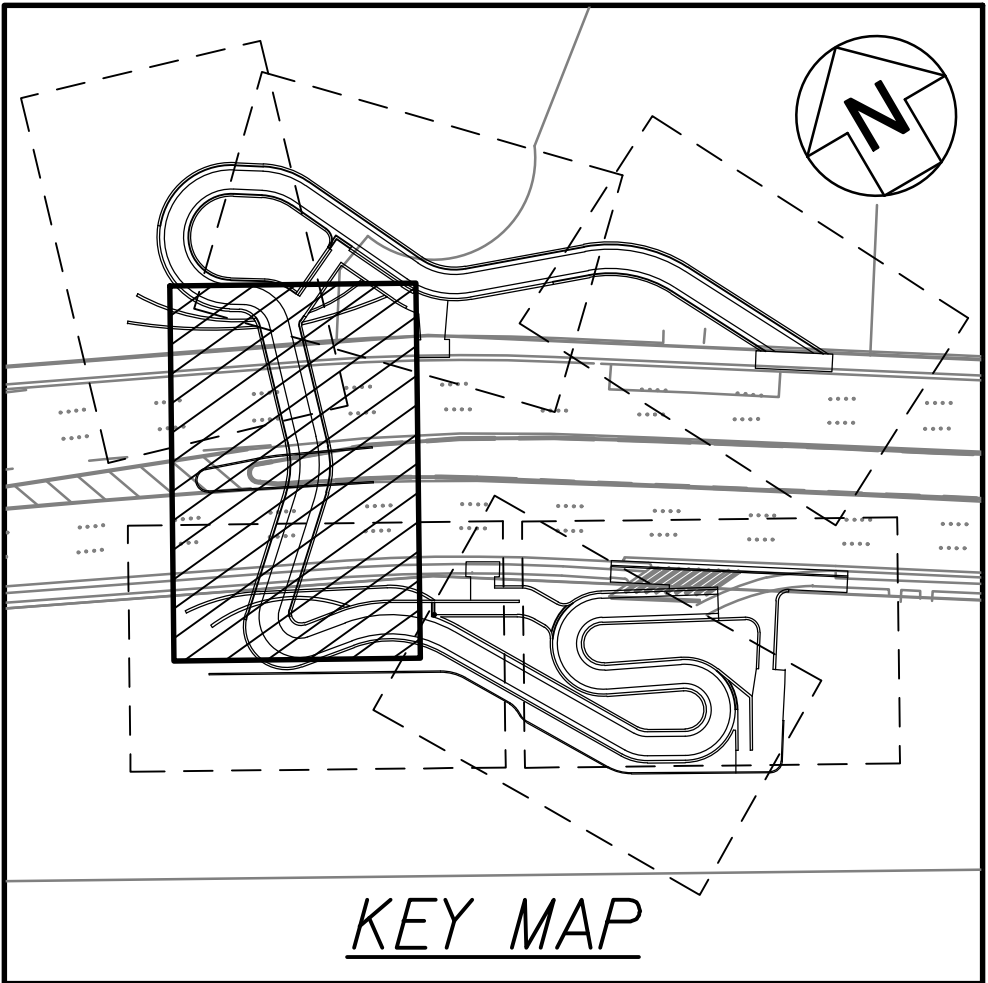
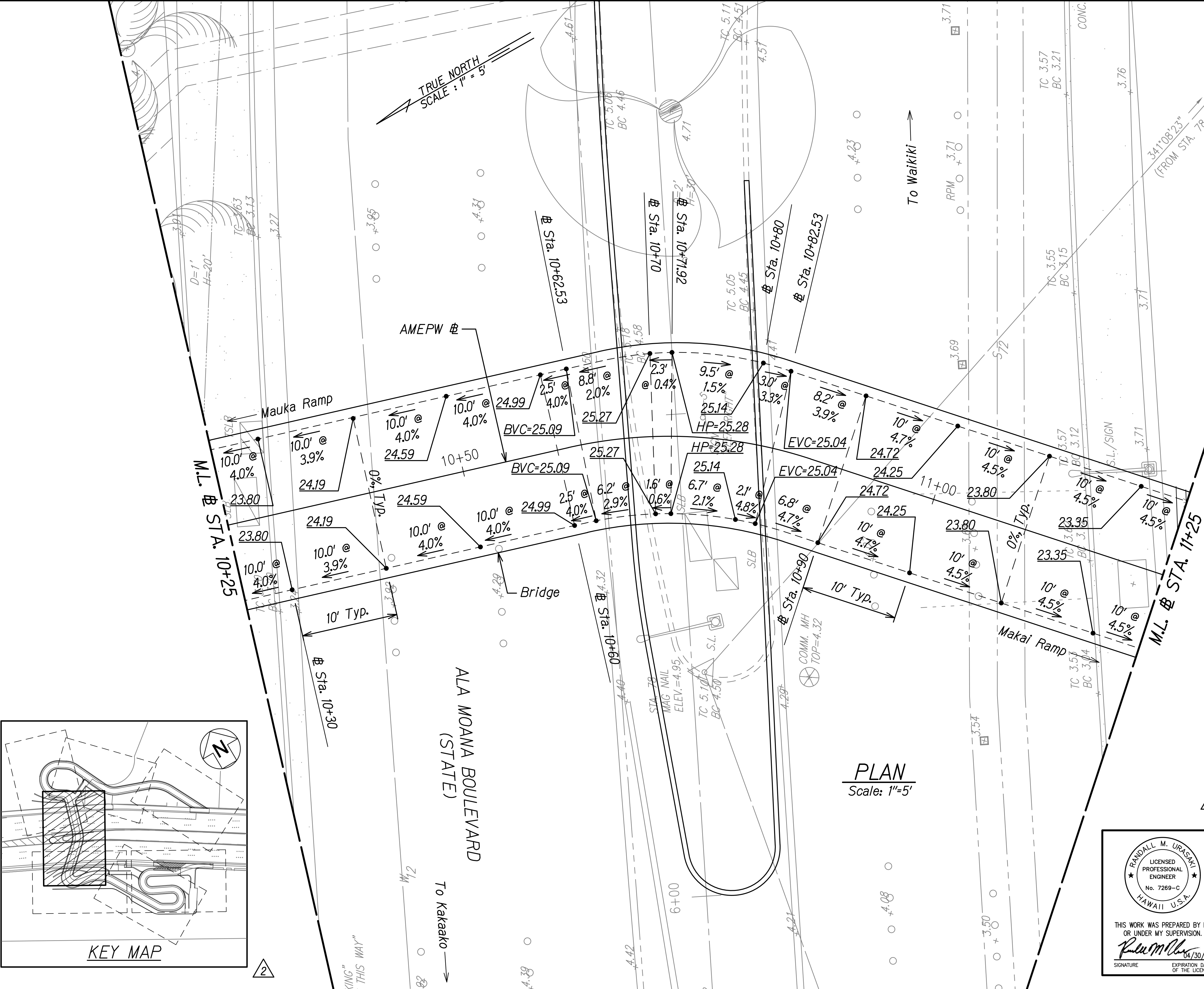
ELEVATED PEDESTRIAN WALKWAY

Federal Aid Project No. BLD-092-1(029)

Scale: 1"=5'

Date: July 2021

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 56	295



PLAN
Scale: 1"=5'

RAINDALL M. URASAKI

LICENSED PROFESSIONAL ENGINEER

No. 7269-C

HAWAII U.S.A.

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R. M. Urasaki

SIGNATURE

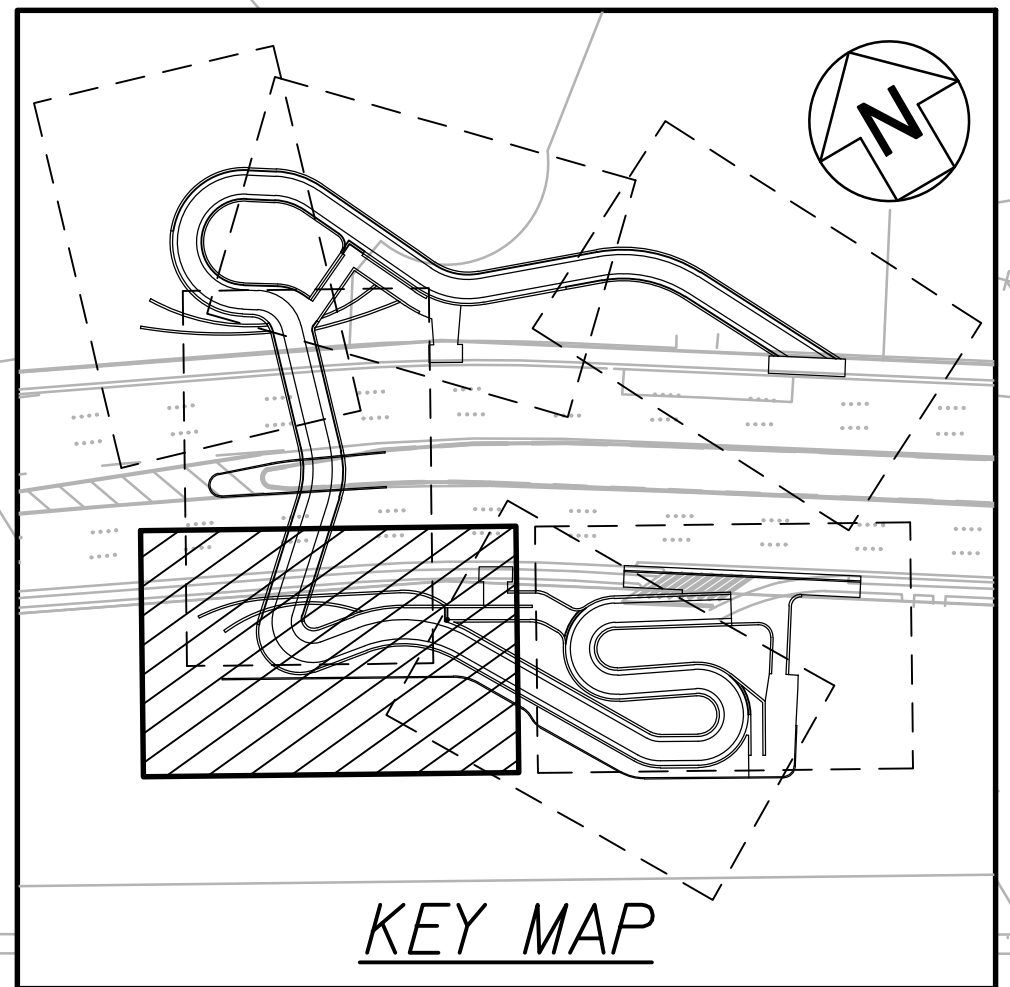
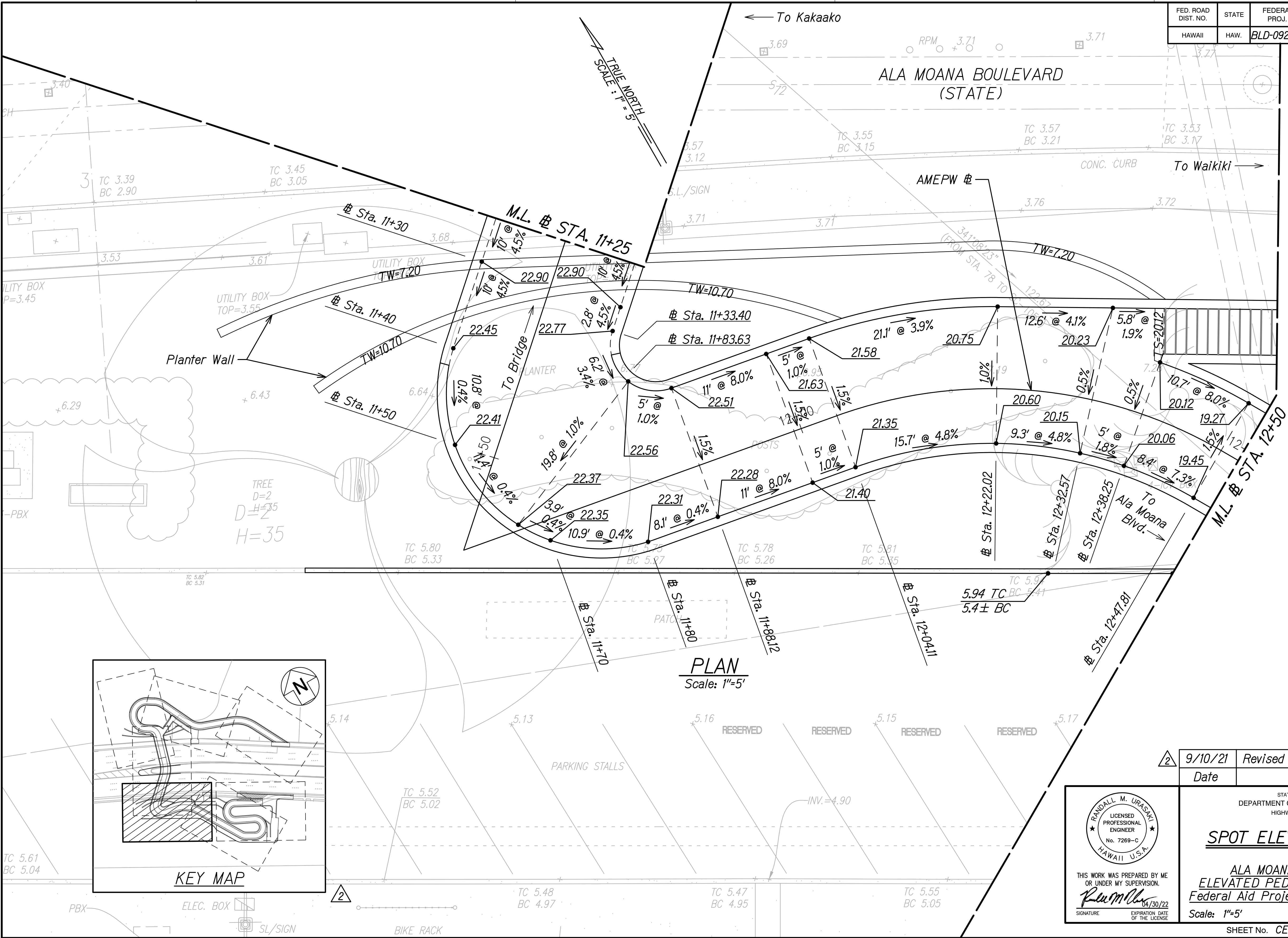
04/30/22

EXPIRATION DATE OF THE LICENSE

9/10/21	Revised Key Map
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SPOT ELEVATION PLAN	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: 1"=5'	Date: July 2021
SHEET No. CE-4 OF 7 SHEETS	

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

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 57	295



DATE	9/10/21
SURVEY PLOTTED BY	DATE
DRAWN BY	DATE
DESIGNED BY	DATE
NOTED BY	DATE
CHECKED BY	DATE

9/10/21	Revised Key Map
Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPOT ELEVATION PLAN

**ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY**
Federal Aid Project No. BLD-092-1(029)

Scale: 1"=5' Date: July 2021

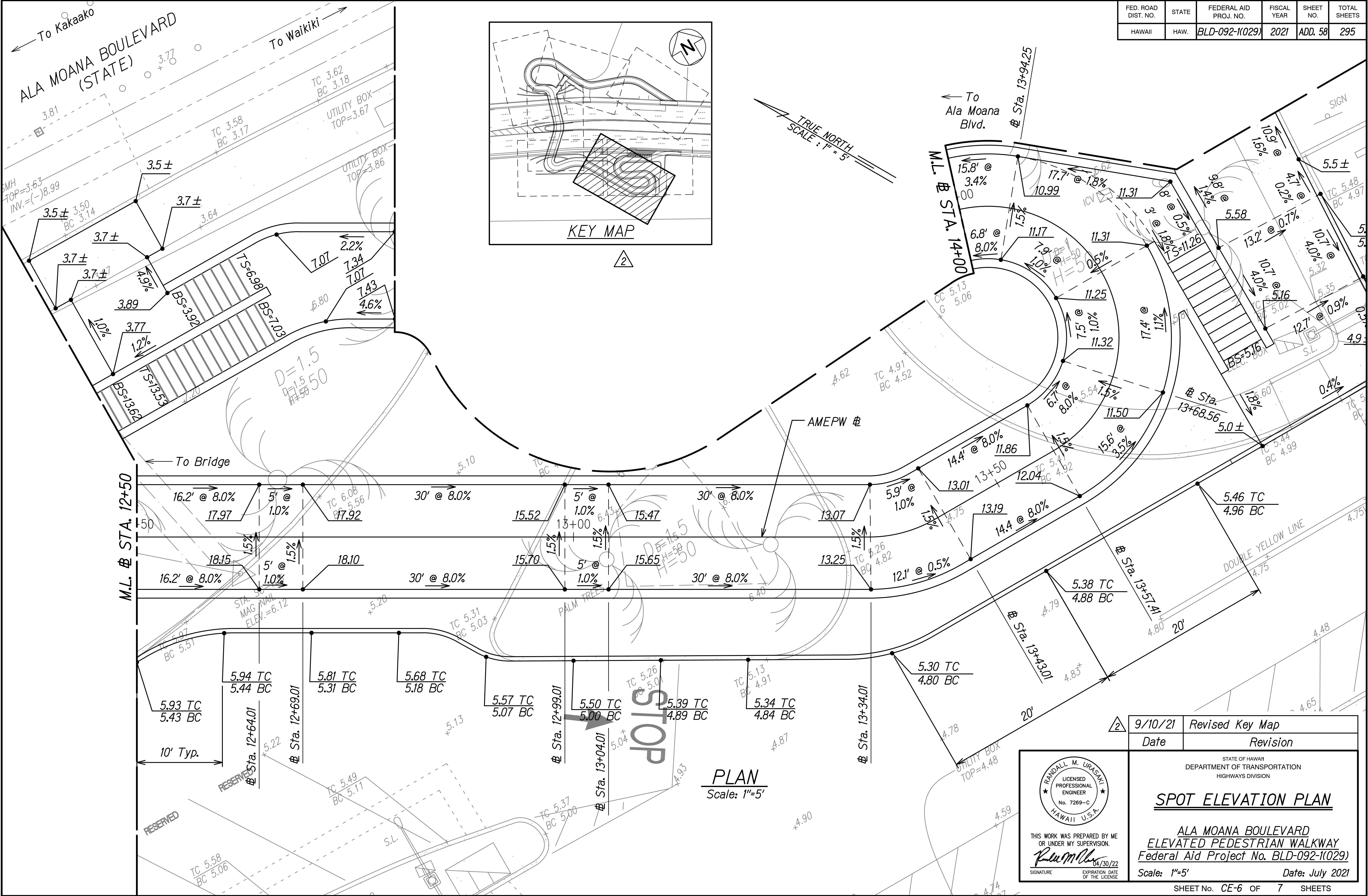
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Randall M. Urasaki
SIGNATURE

EXPIRATION DATE OF THE LICENSE: 04/30/22

SHEET No. CE-5 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 58	295

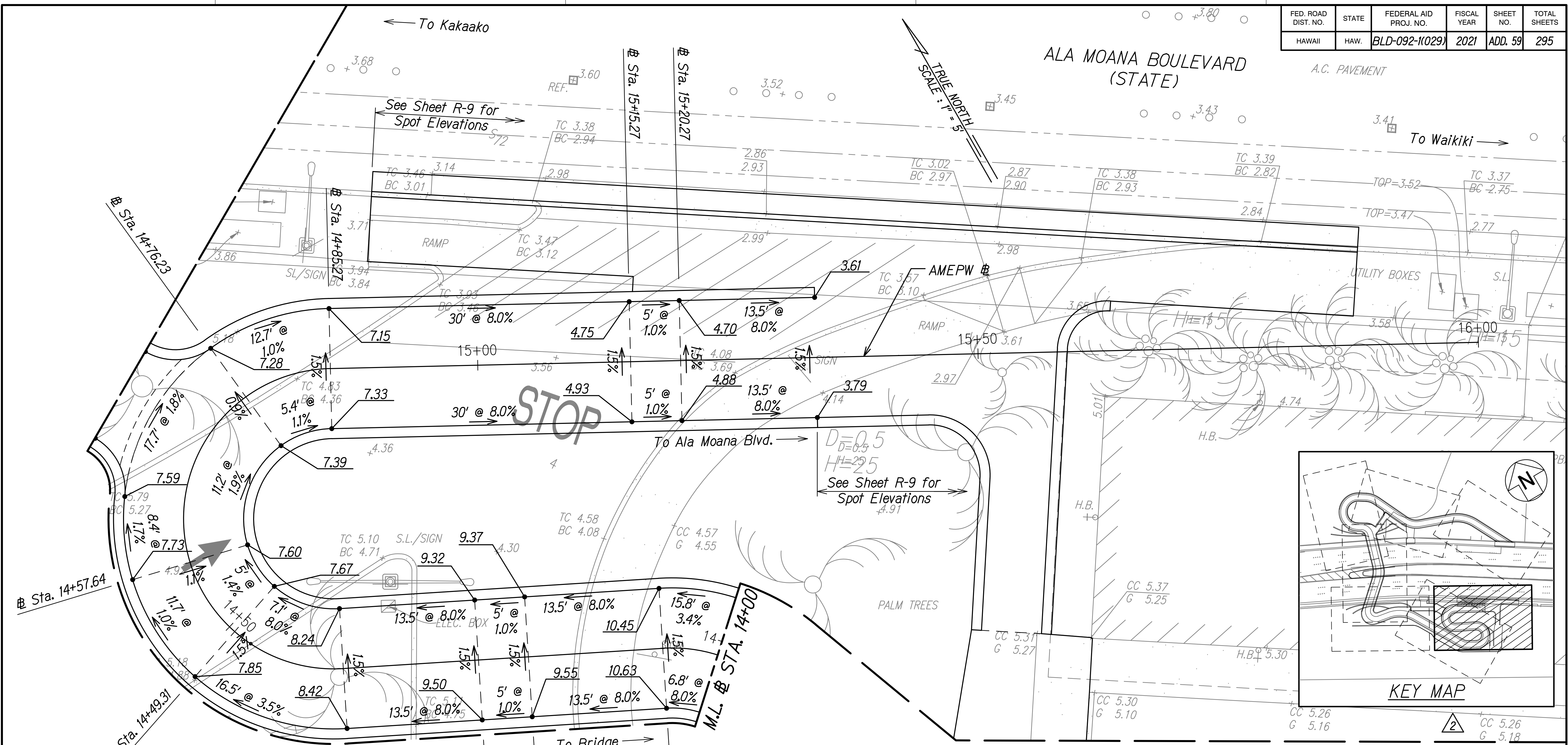


ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
N.	

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.
Ram M. Urasaki
SIGNATURE
EXPIRATION DATE OF THE LICENSE 04/30/22

Date	Revision
9/10/21	Revised Key Map
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
SPOT ELEVATION PLAN	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: 1"=5'	Date: July 2021
SHEET No. CE-6 OF 7 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 59	295



PLAN
Scale: 1"=5'

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

Date	Revision
9/10/21	Revised Key Map

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature: *R. Urasaki* 04/30/22
SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

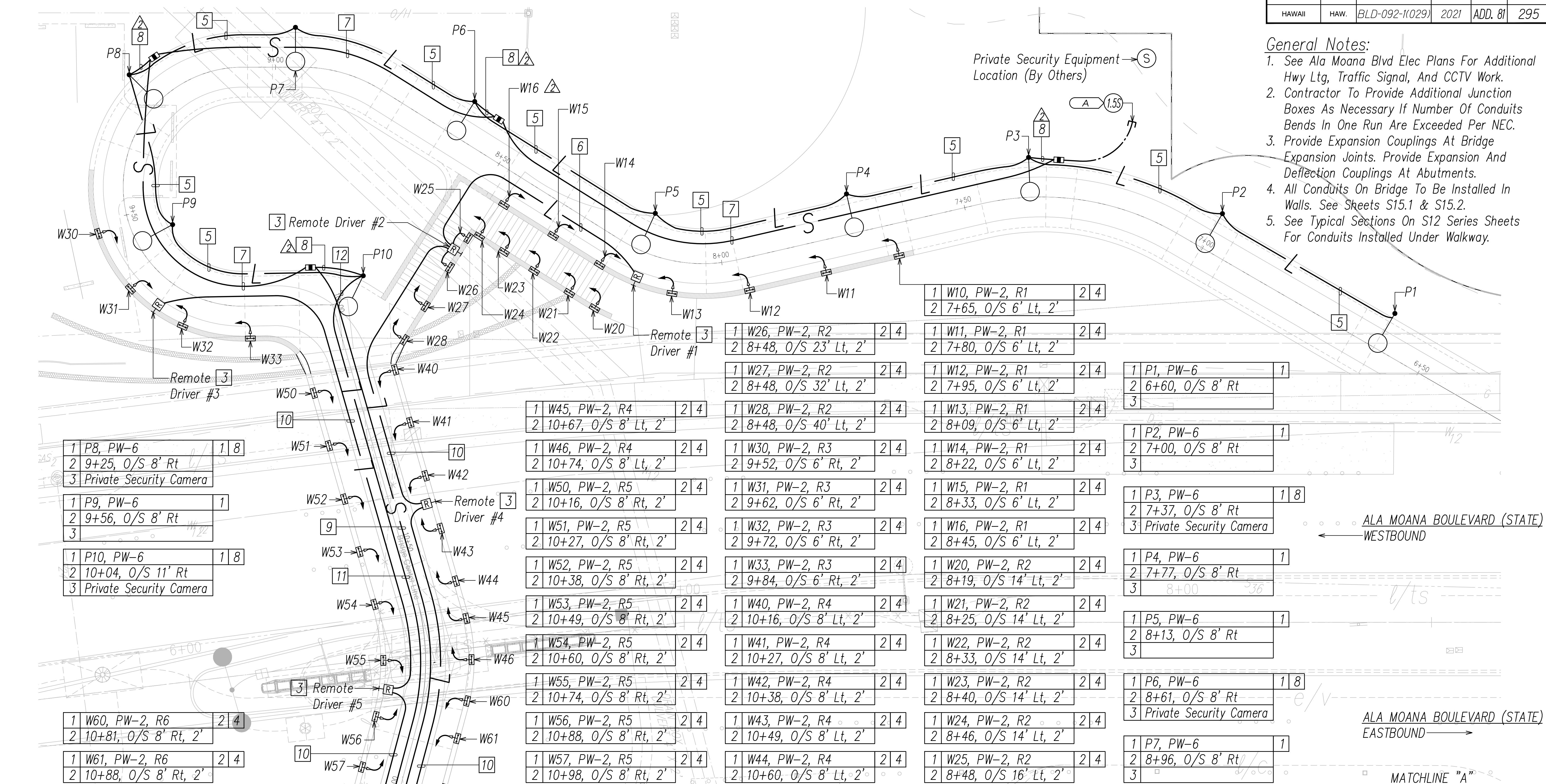
SPOT ELEVATION PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: 1"=5' Date: July 2021

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 81	295

- General Notes:
1. See Ala Moana Blvd Elec Plans For Additional Hwy Ltg, Traffic Signal, And CCTV Work.
 2. Contractor To Provide Additional Junction Boxes As Necessary If Number Of Conduits Bends In One Run Are Exceeded Per NEC.
 3. Provide Expansion Couplings At Bridge Expansion Joints. Provide Expansion And Deflection Couplings At Abutments.
 4. All Conduits On Bridge To Be Installed In Walls. See Sheets S15.1 & S15.2.
 5. See Typical Sections On S12 Series Sheets For Conduits Installed Under Walkway.



Notes:

1 New Pedestrian Walkway Pole Light. See Sht S16.3 For Foundation Details.

2 New Pedestrian Walkway Wall Recessed Light.

10' 5' 0 10' 20' 30'

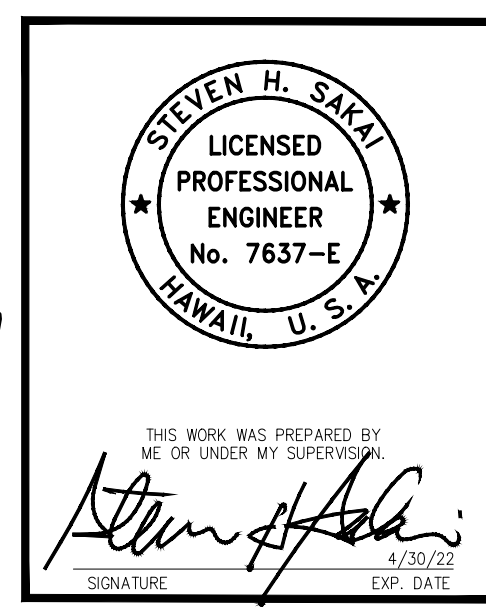
SCALE: 1"=10'

GRAPHIC SCALE

- 3 12"Sq. x 6"D Wall Recessed Junction Box, Nema 4X, Stainless Steel. Mount Remote Driver In JBox. Box To Be Accessible From Inside Wall Face.
- 4 Provide 3/4"C, 2#10, #10 Gnd To Remote Driver. Install Conduit In Wall. See General Notes 3 & 4 On This Sheet.
- 5 3/4"C, 2#10, #10 Gnd. Route Conduit Under Concrete Walkway. See General Note 5 On This Sheet.
- 6 1"C, 2#8, #8 Gnd. Install Conduit In Wall And/Or Under Concrete Walkway. See General Notes On This Sheet.
- 7 1 1/2"C, Pullstring. Route Conduit Under Concrete Walkway. See General Note 5 On This Sheet.
- 8 Provide 3/4"C, Pullstring From Pullbox & Stub Into Pole Base For Future Private Security Camera.
- 9 1 1/2"C, Pullstring. Install Conduit In Wall On Bridge. Transition And Route Conduit Under Concrete Walkway Off Bridge. See General Notes On This Sheet.
- 10 1"C, 2#8, #8 Gnd. Install Conduit In Wall. See General Notes 3 & 4 On This Sheet.
- 11 1"C, 2#10, #10 Gnd. Install Conduit In Wall. See General Notes 3 & 4 On This Sheet.
- 12 1"C, 2#10, #10 Gnd. Install Conduit Under Concrete Walkway. Transition To Wall Conduit On Bridge From Underground. See General Notes On This Sheet.

PEDESTRIAN WALKWAY ELECTRICAL PLAN I

SCALE: 1"=10'



09/10/21 Date

SEE CONT. SHT. E-5 Added Callouts Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

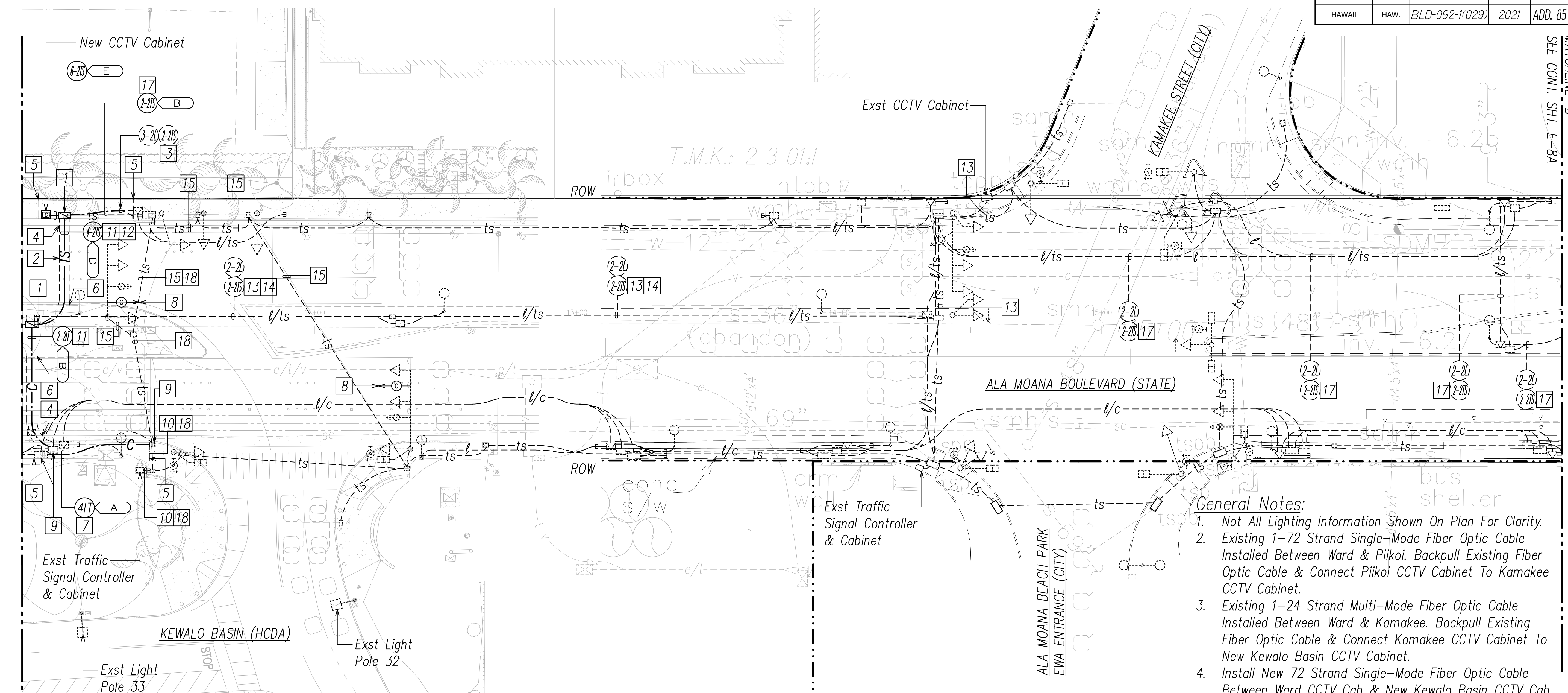
PEDESTRIAN WALKWAY
ELECTRICAL PLAN I

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Shown Date: July 2021

SHEET No. E-4 OF 33 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 85	295



MATCHLINE "C"
SEE CONT. SHIT. E-7

Notes:

- 1

Relace Exst Pullbox With New Type "C" Traffic Signal Pullbox.
- 2

Sawcut Exst AC Pavement & Demo Pavement Prior To Trench Excavation. Repair AC Pavement Per HDOT Stds.
- 3

Expose Exst Conduit Stub-Out, Provide Couplings & Extend Conduits.
- 4

Sawcut Exst Concrete Curb & Gutter & Demo Curb & Gutter Prior To Trench Excavation. Repair Concrete Curb & Gutter Per HDOT Stds.
- 5

Sawcut Exst Concrete Sidewalk At Scorelines & Demo Sidewalk Prior To Trench Excavation. Construct Full Width Concrete Sidewalk Per HDOT Standards.
- 6

Sawcut Exst AC Curb & Demo Curb Prior To Trench Excavation. Repair AC Curb Per HDOT Stds.
- 7

New 4"C, Provide New Innerduct & 1-Type 3 Interconnect Cable.
- 8

Mount New HDOT CCTV Camera To Exst TSS Type II Mast Arm.
- 9

Penetrate Exst Pullbox To Terminate Conduits. Repair To Match Exst.
- 10

Exst Conduit. Provide 1-Type 3 Interconnect Cable.
- 11

2"C, Pullstring. 2"C, Provide New Innerduct, 1-72 Strand Single Mode & 1-24 Strand Multi-Mode Fiber Optic Cable. See General Notes 4 Thru 6.
- 12

2"C, Pullstring. 2"C, Provide New Innerduct & 1-72 Strand Single Mode Fiber Optic Cable; Backpull Exst 1-24 Strand Multi-Mode Fiber Optic Cable. See General Notes 2 Thru 6.
- 13

Exst 2"C, 1-72 Strand Single Mode & 1-24 Strand Multi-Mode Fiber Optic Cable. Backpull Fiber Optic Cables. Install New 1-72 Strand Fiber Optic Cable Between Kewalo Basin CCTV Cabinet and Kamakee CCTV Cabinet In Exst Conduit. See General Notes 2 Thru 6.
- 14

Exst 2"C, 1-Type 3 Cable To Remain.
- 15

Exst Conduit. Provide Camera Cables To New CCTV Cabinet.
- 16

2"C, 2#6, #6 Gnd. 2"C, 2-Camera Cables.
- 17

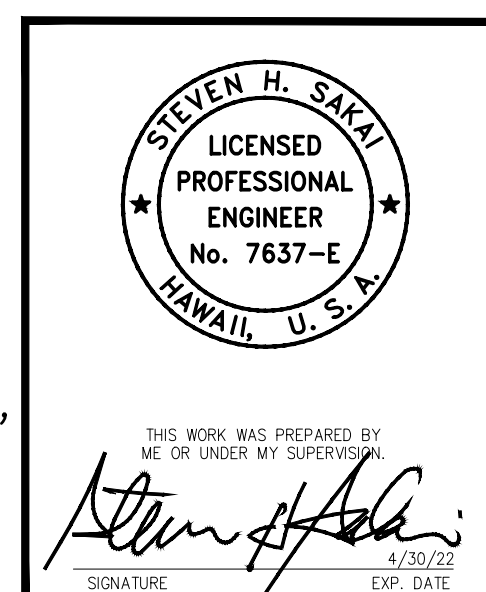
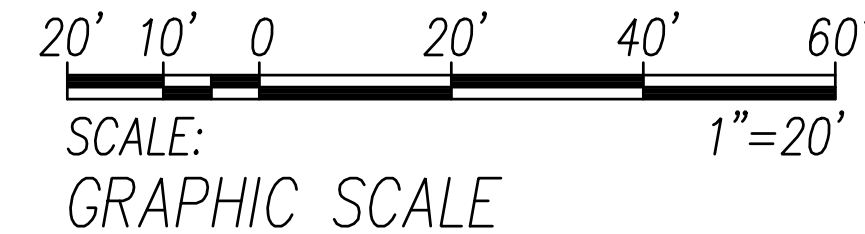
Exst 2"C, 2-Fiber Optic Cables. Backpull Exst 1-72 Strand Single Mode Fiber Optic Cable Between Piikoi St CCTV Cabinet and Kamakee St CCTV Cabinet In Exst Conduit. See General Note 2.
- 18

Provide 2#6, #6 Gnd In Exst Conduit.

General Notes:

- Not All Lighting Information Shown On Plan For Clarity.
- Existing 1-72 Strand Single-Mode Fiber Optic Cable Installed Between Ward & Piikoi. Backpull Existing Fiber Optic Cable & Connect Piikoi CCTV Cabinet To Kamakee CCTV Cabinet.
- Existing 1-24 Strand Multi-Mode Fiber Optic Cable Installed Between Ward & Kamakee. Backpull Existing Fiber Optic Cable & Connect Kamakee CCTV Cabinet To New Kewalo Basin CCTV Cabinet.
- Install New 72 Strand Single-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.
- Install New 72 Strand Single-Mode Fiber Optic Cable Between New Kewalo Basin CCTV Cab & Kamakee CCTV Cab.
- Install New 24 Strand Multi-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.

ALA MOANA BLVD ELECTRICAL PLAN III
SCALE: 1"=20'

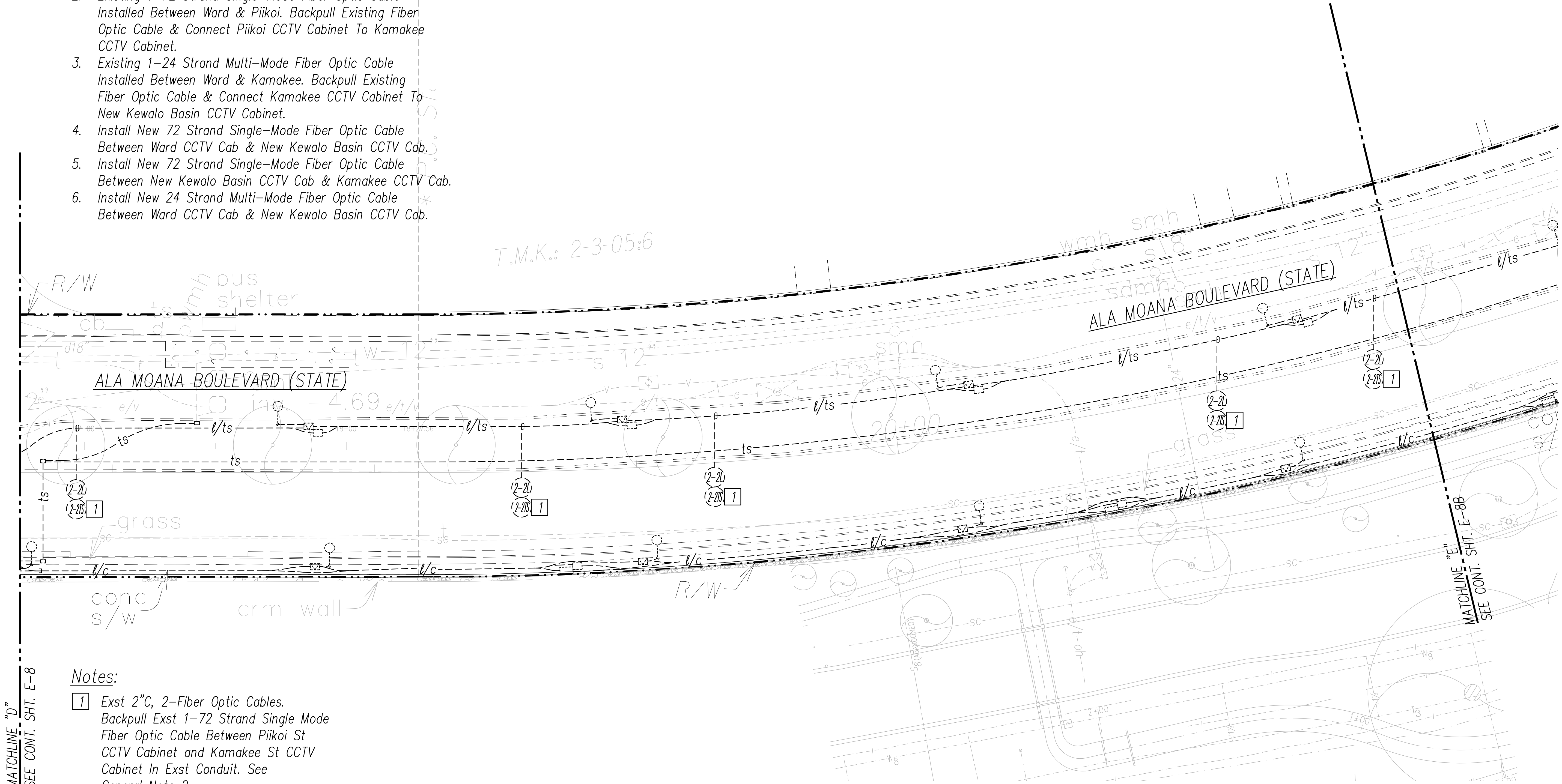


Date	Revision
09/10/21	Added Matchline
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ALA MOANA BOULEVARD ELECTRICAL PLAN III	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: As Shown	Date: July 2021
SHEET No. E-8 OF 33 SHEETS	

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(K029)	2021	ADD. 85S-1	295

General Notes:

1. Not All Lighting Information Shown On Plan For Clarity.
2. Existing 1-72 Strand Single-Mode Fiber Optic Cable Installed Between Ward & Piikoi. Backpull Existing Fiber Optic Cable & Connect Piikoi CCTV Cabinet To Kamakee CCTV Cabinet.
3. Existing 1-24 Strand Multi-Mode Fiber Optic Cable Installed Between Ward & Kamakee. Backpull Existing Fiber Optic Cable & Connect Kamakee CCTV Cabinet To New Kewalo Basin CCTV Cabinet.
4. Install New 72 Strand Single-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.
5. Install New 72 Strand Single-Mode Fiber Optic Cable Between New Kewalo Basin CCTV Cab & Kamakee CCTV Cab.
6. Install New 24 Strand Multi-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.



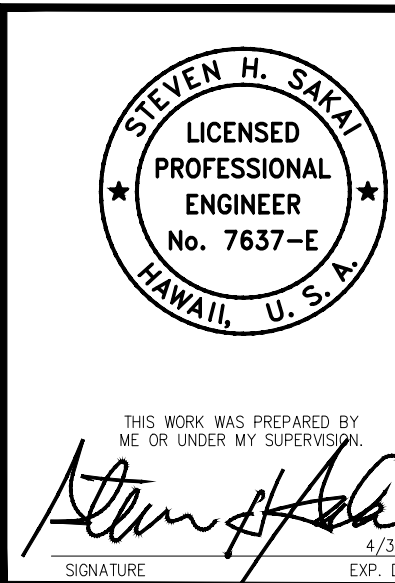
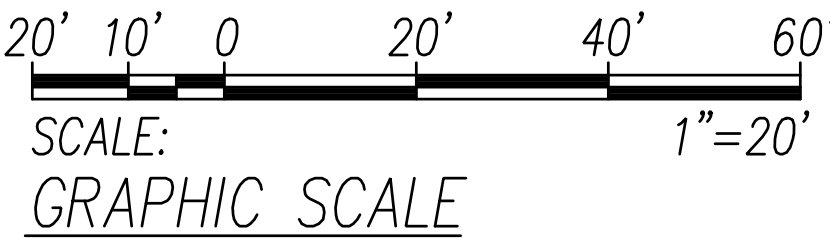
Notes:

- 1 Exst 2"C, 2-Fiber Optic Cables.
Backpull Exst 1-72 Strand Single Mode
Fiber Optic Cable Between Piikoi St
CCTV Cabinet and Kamakee St CCTV
Cabinet In Exst Conduit. See
General Note 2.

MATCHLINE "D"
SEE CONT. SHT. E-8



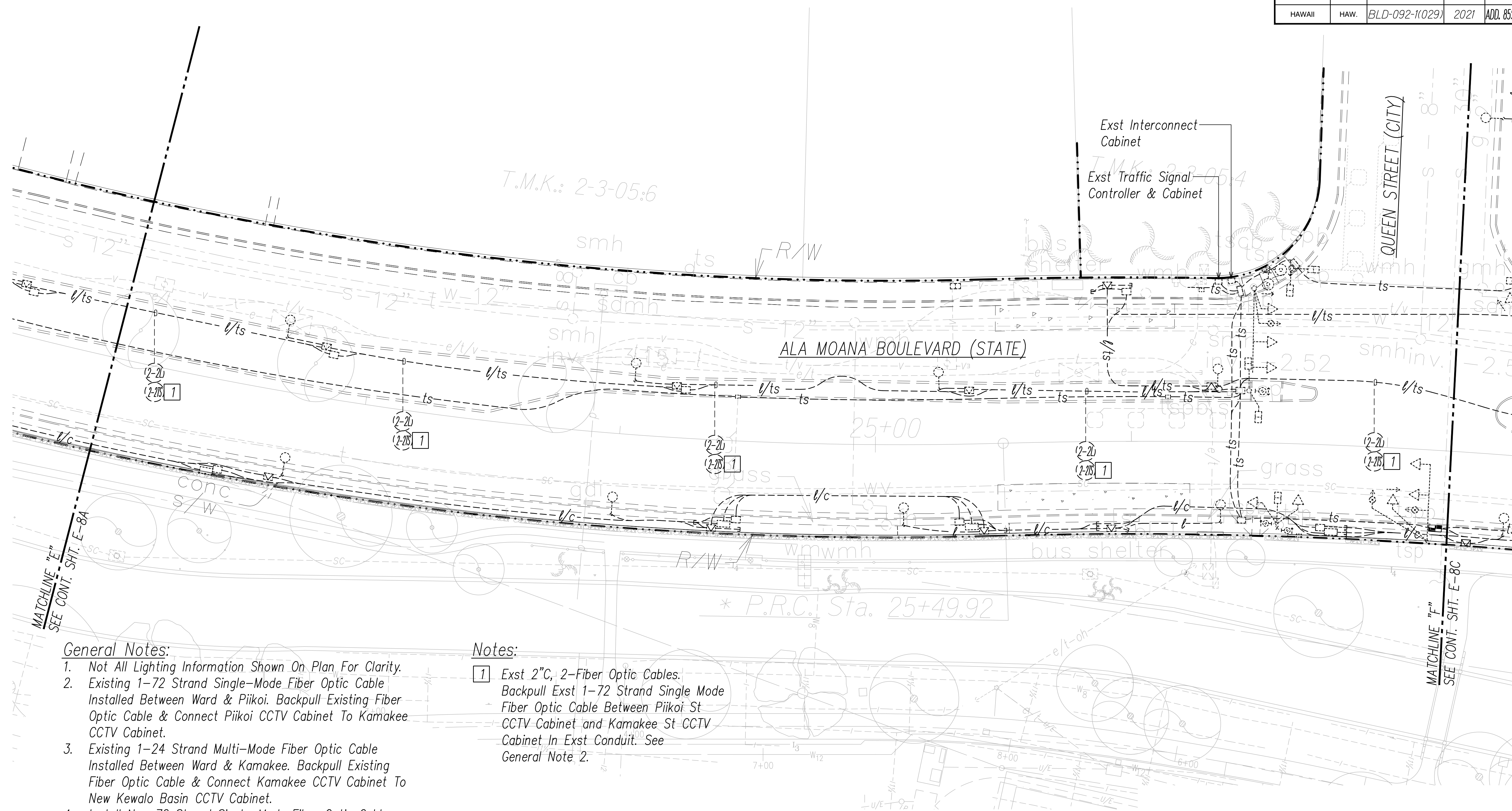
ALA MOANA BLVD ELECTRICAL PLAN IV
SCALE: 1"=20'



Date	Revision
09/10/21	Added New Sheet
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ALA MOANA BOULEVARD ELECTRICAL PLAN IV	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(K029)	
Scale: As Shown	Date: July 2021
SHEET No. E-8A OF 33 SHEETS	

ADD. 85S-1

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 85S-2	295

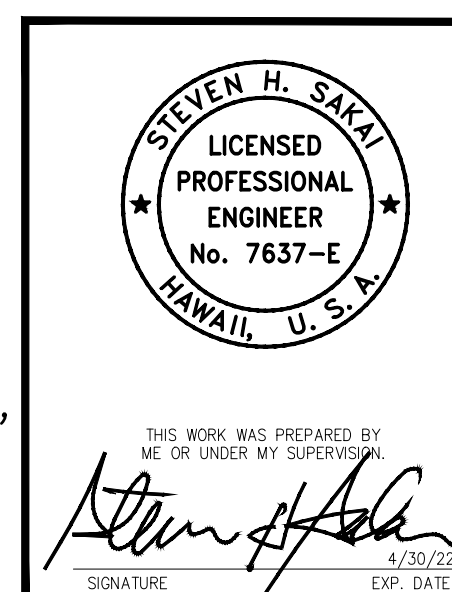
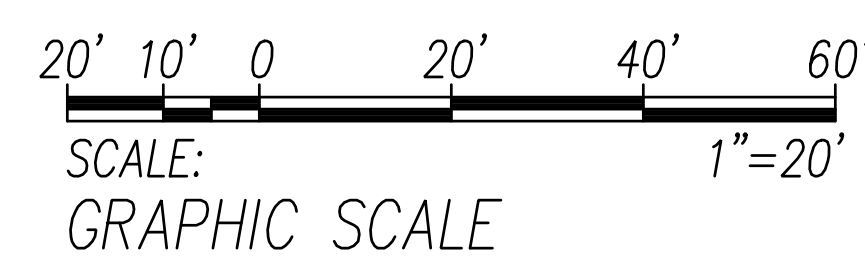


- General Notes:**
1. Not All Lighting Information Shown On Plan For Clarity.
 2. Existing 1-72 Strand Single-Mode Fiber Optic Cable Installed Between Ward & Piikoi. Backpull Existing Fiber Optic Cable & Connect Piikoi CCTV Cabinet To Kamakee CCTV Cabinet.
 3. Existing 1-24 Strand Multi-Mode Fiber Optic Cable Installed Between Ward & Kamakee. Backpull Existing Fiber Optic Cable & Connect Kamakee CCTV Cabinet To New Kewalo Basin CCTV Cabinet.
 4. Install New 72 Strand Single-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.
 5. Install New 72 Strand Single-Mode Fiber Optic Cable Between New Kewalo Basin CCTV Cab & Kamakee CCTV Cab.
 6. Install New 24 Strand Multi-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.

- Notes:**
- 1 Exst 2" C, 2-Fiber Optic Cables. Backpull Exst 1-72 Strand Single Mode Fiber Optic Cable Between Piikoi St CCTV Cabinet and Kamakee St CCTV Cabinet In Exst Conduit. See General Note 2.



ALA MOANA BLVD ELECTRICAL PLAN V
SCALE: 1"=20'



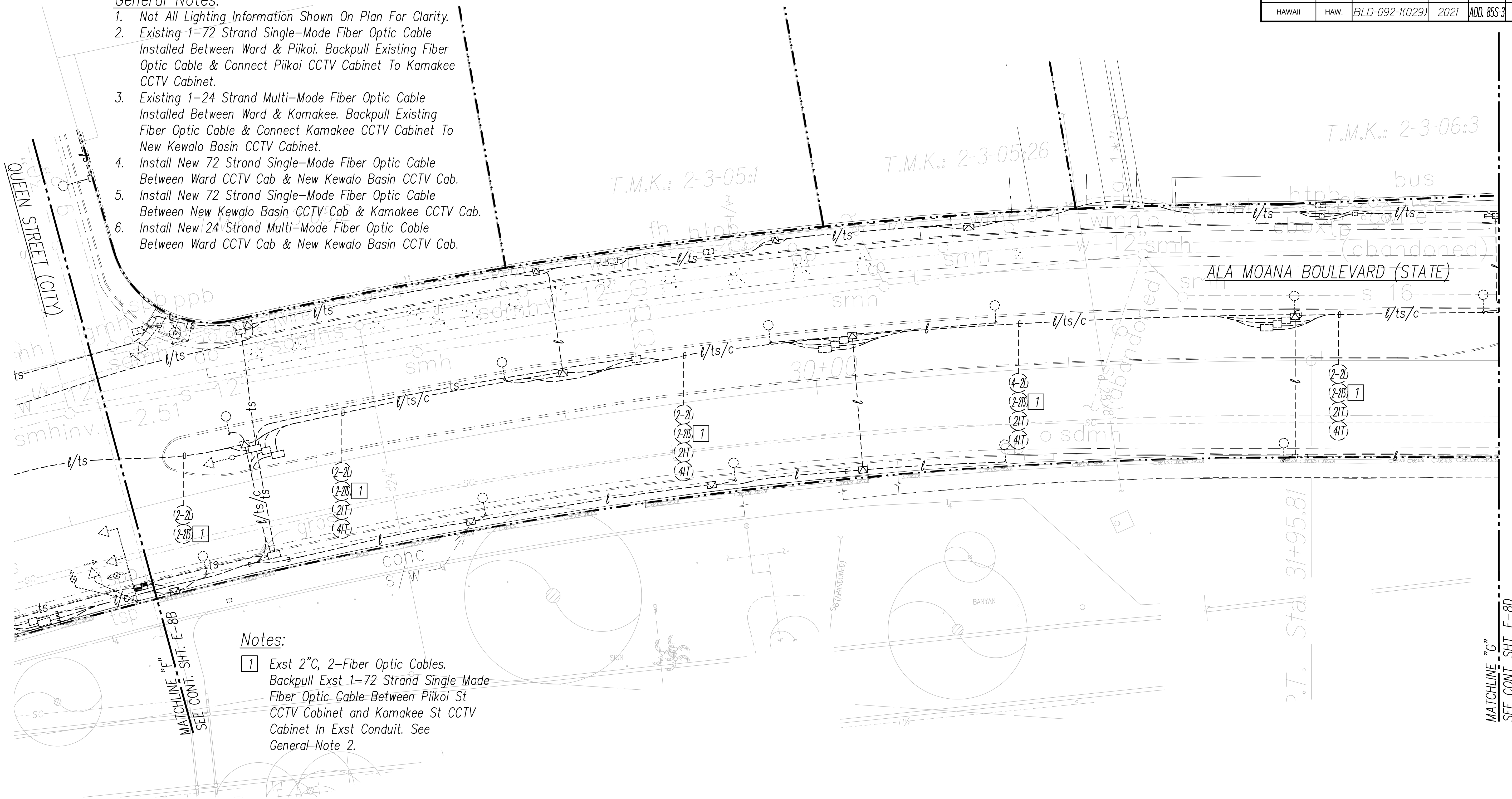
09/10/21	Added New Sheet
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ALA MOANA BOULEVARD ELECTRICAL PLAN V	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: As Shown	Date: July 2021
SHEET No. E-8B OF 33 SHEETS	

ADD. 85S-2

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 85S-3	295

General Notes:

1. Not All Lighting Information Shown On Plan For Clarity.
2. Existing 1-72 Strand Single-Mode Fiber Optic Cable Installed Between Ward & Piikoi. Backpull Existing Fiber Optic Cable & Connect Piikoi CCTV Cabinet To Kamakee CCTV Cabinet.
3. Existing 1-24 Strand Multi-Mode Fiber Optic Cable Installed Between Ward & Kamakee. Backpull Existing Fiber Optic Cable & Connect Kamakee CCTV Cabinet To New Kewalo Basin CCTV Cabinet.
4. Install New 72 Strand Single-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.
5. Install New 72 Strand Single-Mode Fiber Optic Cable Between New Kewalo Basin CCTV Cab & Kamakee CCTV Cab.
6. Install New 24 Strand Multi-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.

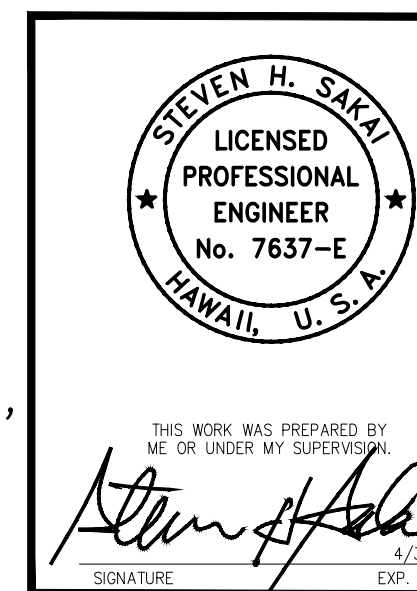
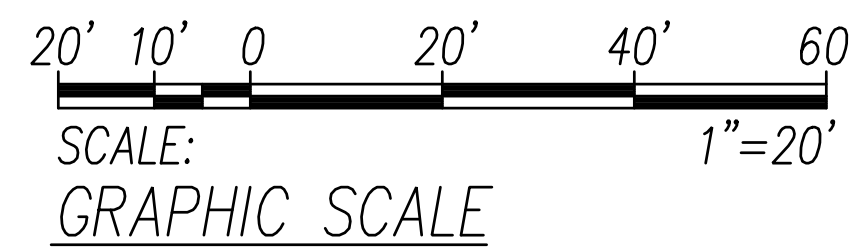


Notes:

- 1 Exst 2"C, 2-Fiber Optic Cables. Backpull Exst 1-72 Strand Single Mode Fiber Optic Cable Between Piikoi St CCTV Cabinet and Kamakee St CCTV Cabinet In Exst Conduit. See General Note 2.



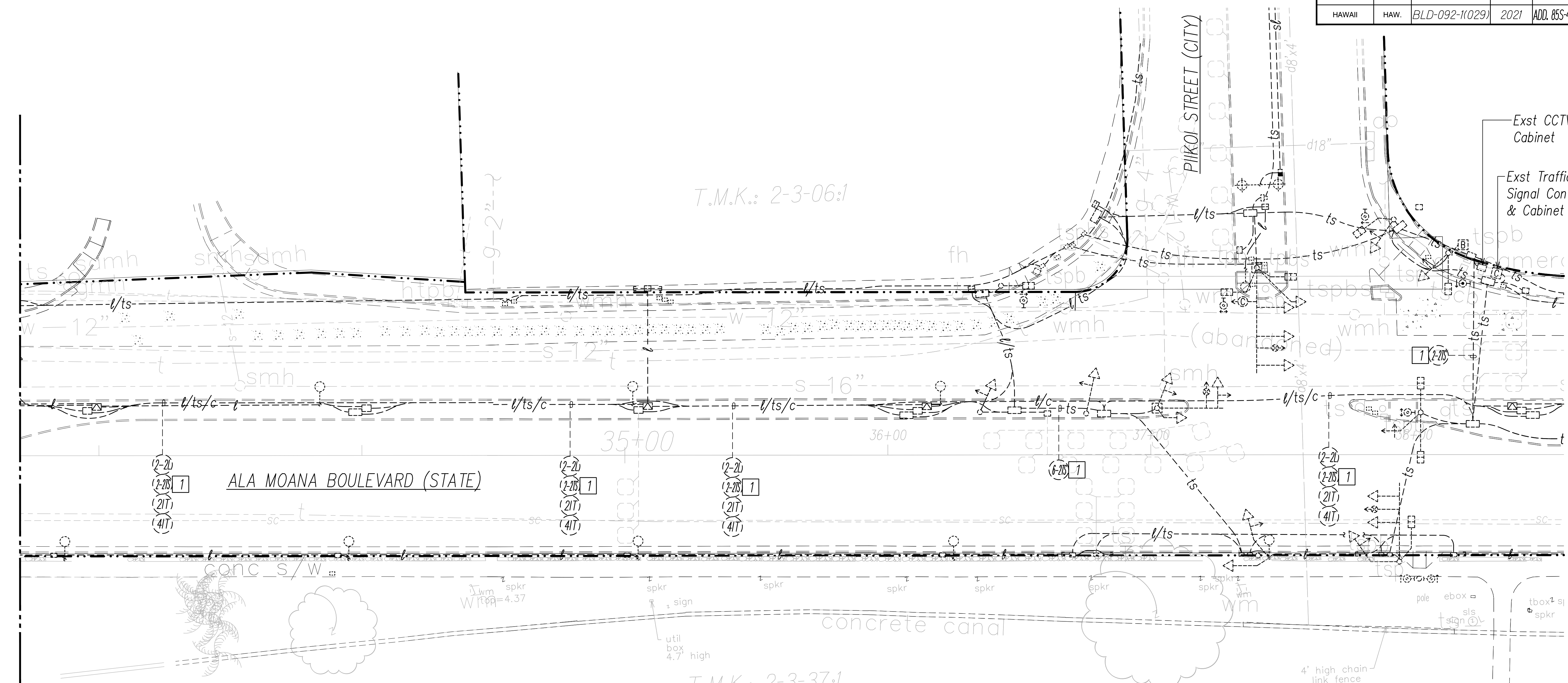
ALA MOANA BLVD ELECTRICAL PLAN VI
SCALE: 1"=20'



Date	Revision
09/10/21	Added New Sheet
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ALA MOANA BOULEVARD ELECTRICAL PLAN VI	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: As Shown	Date: July 2021
SHEET No. E-8C OF 33 SHEETS	

ADD. 85S-3

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 85S-4	295



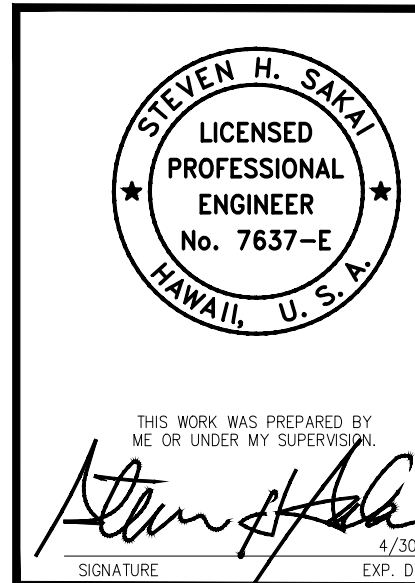
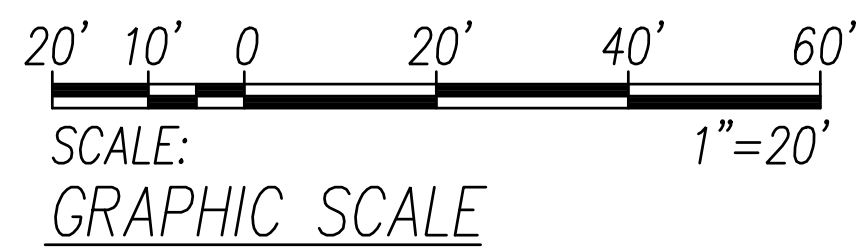
MATCHLINE "G"
SEE CONT. SHT. E-8C

- General Notes:**
- Not All Lighting Information Shown On Plan For Clarity.
 - Existing 1-72 Strand Single-Mode Fiber Optic Cable Installed Between Ward & Piikoi. Backpull Existing Fiber Optic Cable & Connect Piikoi CCTV Cabinet To Kamakee CCTV Cabinet.
 - Existing 1-24 Strand Multi-Mode Fiber Optic Cable Installed Between Ward & Kamakee. Backpull Existing Fiber Optic Cable & Connect Kamakee CCTV Cabinet To New Kewalo Basin CCTV Cabinet.
 - Install New 72 Strand Single-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.
 - Install New 72 Strand Single-Mode Fiber Optic Cable Between New Kewalo Basin CCTV Cab & Kamakee CCTV Cab.
 - Install New 24 Strand Multi-Mode Fiber Optic Cable Between Ward CCTV Cab & New Kewalo Basin CCTV Cab.

- Notes:**
- Exst 2"C, 2-Fiber Optic Cables. Backpull Exst 1-72 Strand Single Mode Fiber Optic Cable Between Piikoi St CCTV Cabinet and Kamakee St CCTV Cabinet In Exst Conduit. See General Note 2.



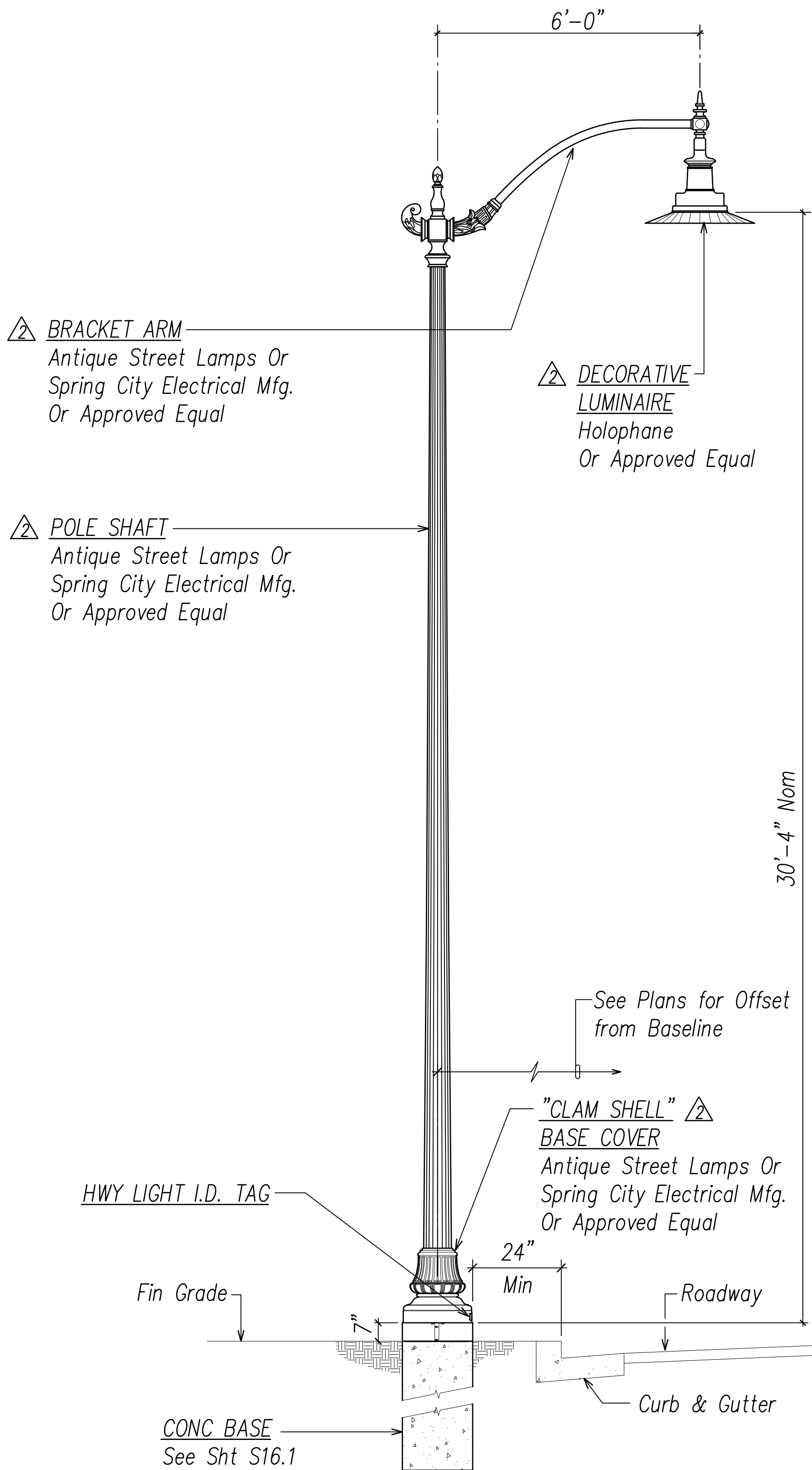
ALA MOANA BLVD ELECTRICAL PLAN VII
SCALE: 1"=20'



Date	Revision
09/10/21	Added New Sheet
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: As Shown	Date: July 2021
SHEET No. E-8D OF 33 SHEETS	

ADD. 85S-4

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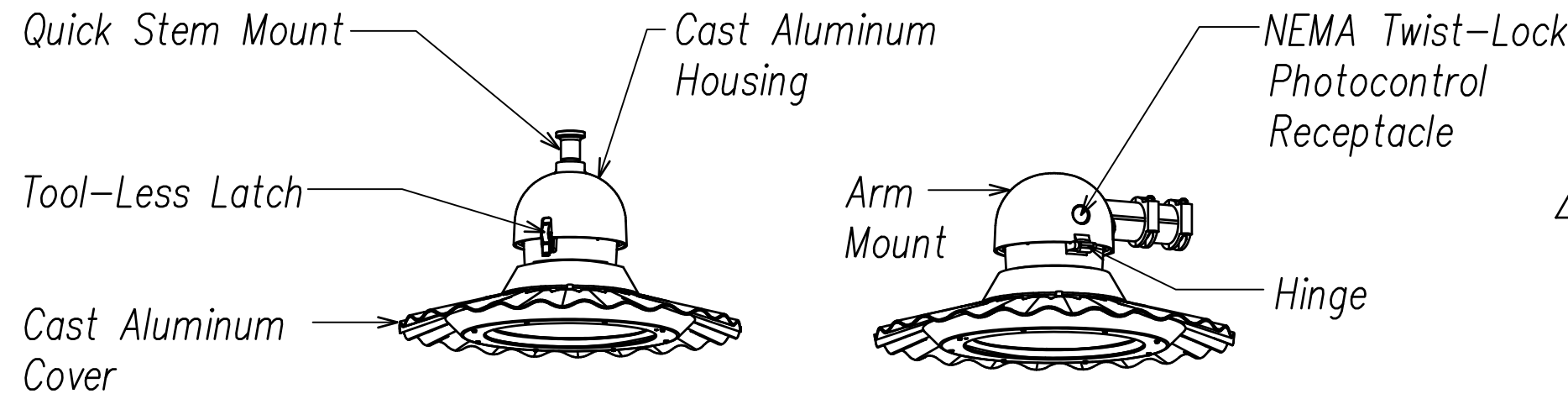


Notes:

1. See Sheet E-33 For Decorative Type "B" Highway Light Standard Dual Arm Detail.

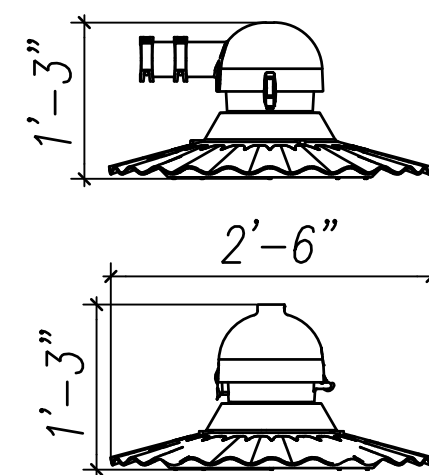
ELEVATION

DECORATIVE TYPE "B" HIGHWAY LIGHT STANDARD
Not to Scale (Single Arm)



Notes:

1. Maximum Effective Projected Area – 1.3 Ft Sq.
2. Maximum Weight – 45 Lbs.



Luminaire Description:
GRLF3-P60-40K-HVOLT-QSM-GN-PR7
Full Cutoff

Manufacturer:
Holophane Or Approved Equal

GE LightGrid Node:
ELWN-1-A-8-U-B-A-A-XX-AD-2
(480V), Network "A" for HWY, See LightGrid Notes.

GE LightGrid Notes:

1. Contractor To Verfiy LightGrid Nodes Will Connect To HDOT Highways Network Prior To Ordering.
2. Contractor To Photograph Unique ID Number At Bottom Of Node For Each New Node. Contractor To Submit All Photographs Of Node Unique ID Numbers To HDOT.
3. Contractor To Coordinate Work With HDOT.

DECORATIVE TYPE "B" LUMINAIRE DETAIL
Not to Scale

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 93	295

SPECIFICATIONS

GENERAL DESCRIPTION

The Architectural Luminaire Consists Of A LED Flat Optical Assembly Shielded By Decorative Formed Housing And A Top Mounted Cast Aluminum Electrical Assembly. The Optical Assembly Is Seamlessly Integrated Into The Form Factor For Beautiful Daytime Appearance And Exceptionally Uniform Lighting At Night.

OPTICAL ASSEMBLY

The Optical Assembly Consists Of An Edgelit Waveguide Light Engine For Unmatched Visual Comfort. Light From The LED Module Is Distributed By Proprietary Wave Guide Technology To Maximize Uniformity And Minimize Glare. Configurable With CCT Options Of 2700K, 3000K, And 4000K. CRI Is 70 Minimum. Available With Asymmetric, Symmetric, Or Pathway Distributions.

MOUNTING STYLE

Quick Lock Stem
GlasWerks Decorative Arm Fitter (GWDF)

ELECTRICAL ASSEMBLY

The Cast Aluminum Electrical Housing Has A Smooth Domed Contour. A (3) Station Terminal Block Is Provided That Accepts #14 Through #2 Size Wire And Has A Quick Disconnect Receptacle. The Electrical Housing Is Hinged With a Tool-Less Latch To Provide Easy Access To The Gear Assembly. The Unitized Electrical Assembly, Containing The Electronic Driver And Other Electrical Components, Plugs Into The Quick Disconnect Receptacle. The Pendant Mount Version Has A Welded Stem (Quick Lock Stem Mounting), Which Aides In Installation Speed. The Arm Mount Version Is Provided With Two U-Bolts With Washers And Nuts And Two Leveling Set Screws That Lock The Housing To A 2 Inch Nominal (2-3/8" O.D.) Horizontal Arm And Allow a +/-5 Degrees Adjustment From Horizontal To The Cover.

ELECTRICAL SYSTEM

Programmable LED Driver With 0-10V Dimming. Optional DALI Dimming. Driver Life Is Rated To At Least 100,000 Hours. Luminaire Surge Protection Rating Of 20kV/10kA Per ANSI/IEEE C62.41.2.

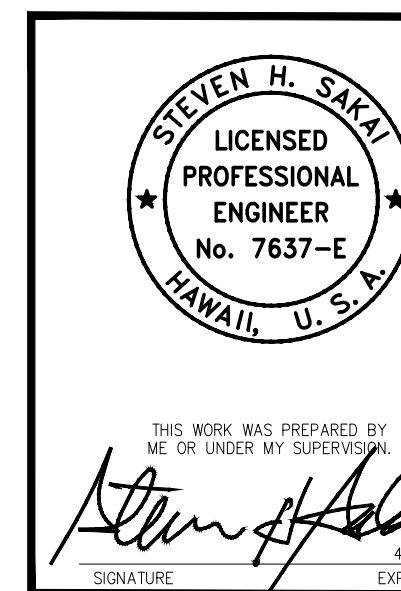
FINISH

The Luminaire Is Finished With Corrosion Resistance Super Durable Powder Coat Paint To Ensure Maximum Durability. Finish Is Rated To 5,000 Hours Salt Spray Per ASTM B117.

LISTING

The Luminaire Is Certified To US And Canadian Standards. IP55 Rated Electrical Chamber, IP66 Rated LED Optic Chamber. 20kV/10kA Extreme Surge Protection Per ANSI/IEEE C136.2. Suitable For Operation In Ambient Temperatures From -40° C To 40° C.

Date	Revision
09/10/21	Revised Notes & Luminaire Details



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DECORATIVE TYPE "B"
HIGHWAY LIGHT DETAILS I
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)
Scale: As Shown Date: July 2021

SHEET No. E-16 OF 33 SHEETS

Technical drawing of Detail A, showing a vertical assembly. A horizontal plate is mounted on a cylindrical base. A vertical rod passes through the plate, secured with a nut and washer. The rod has a 3-inch diameter at the top. The height of the plate is 9 inches. A section line is shown on the left side of the plate.

DETAIL A

A diagram of a circular manhole cover with a crosshair indicating orientation. The top is labeled 90°, the bottom 270°, the left 180°, and the right 0°. To the left of the circle is the text "House Side Handhole" and to the right is "Street Side Luminaire".

POLE SHAFT DETAIL
Not to Scale (Type "B")

BRACKET ARM DETAIL
Not to Scale (Type "B")

SHEET No. *E-17* OF *33* SHEETS

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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 96	295

Housing/Fitter: Die-cast aluminum construction. The luminaire slip fits a 3" O.D. pole top or tenon and is secured by six (6) socket head stainless steel screws threaded into stainless steel inserts. Die castings are marine grade, copper free (less than or equal 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Clear acrylic diffuser held in place by die-cast aluminum frame. Fully gasketed for weather tight operation using a molded silicone gasket.

Electrical: 23.6W LED luminaire, 28 total system watts. Integral 120V through 277V electronic LED driver.

Finish: Polyester powder coat with minimum 3 mil thickness. Color: Black (BLK).

CSA certified to U.S. standards, suitable for wet locations. Protection class IP65.

Weight: 21.4 lbs.

EPA (Effective projection area): 0.73 sq. ft.

Housing Finish: Black

Lens: Acrylic

Distribution: Asymmetric

Lamp Type: Integrated LED

CCT: 2700

Lamp Wattage: 28

Number of Lamps: 1

Luminaire Lumens: 2297

Power Interface Details:

Type: Driver

Mounting: Integral

Dimming Type: Non-Dim

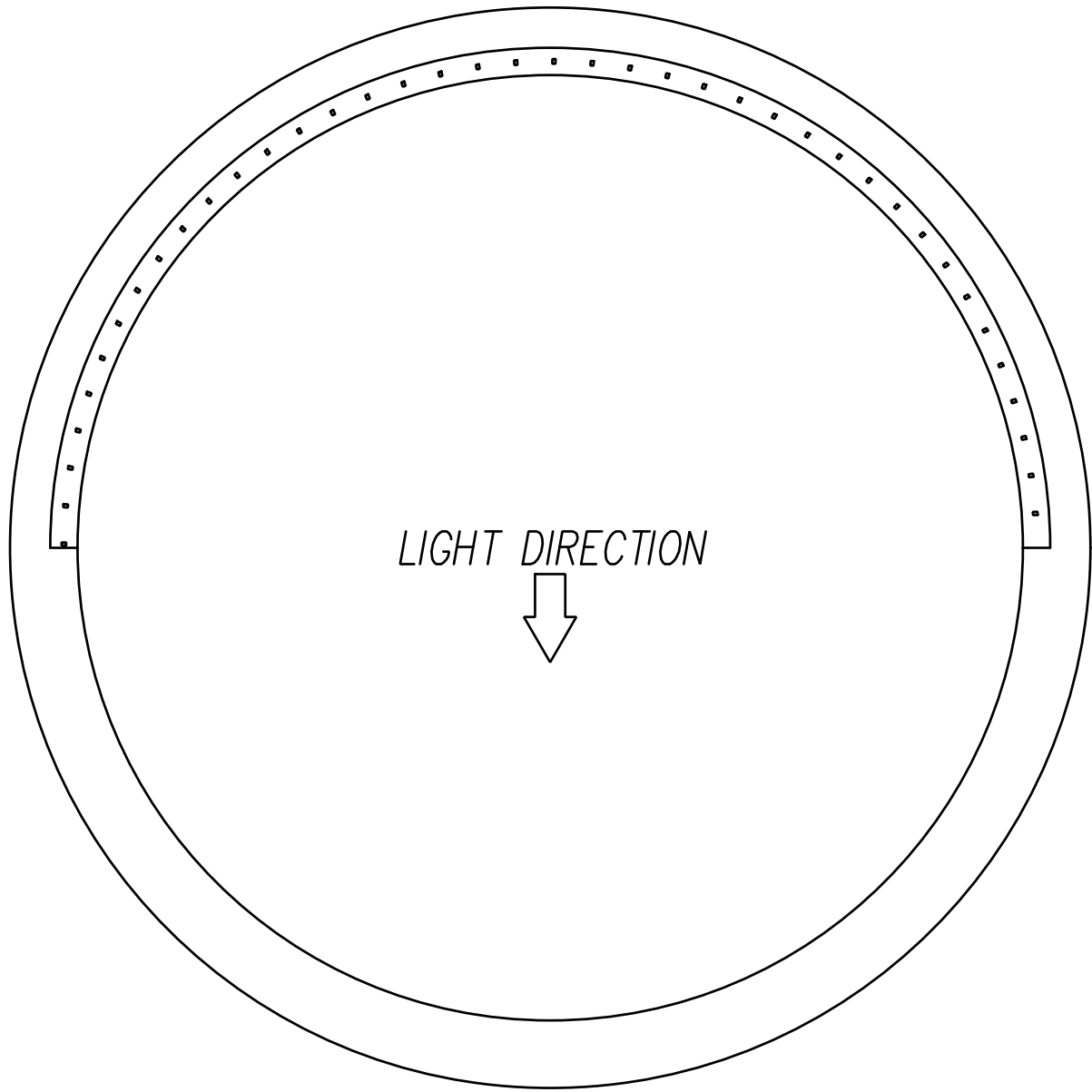
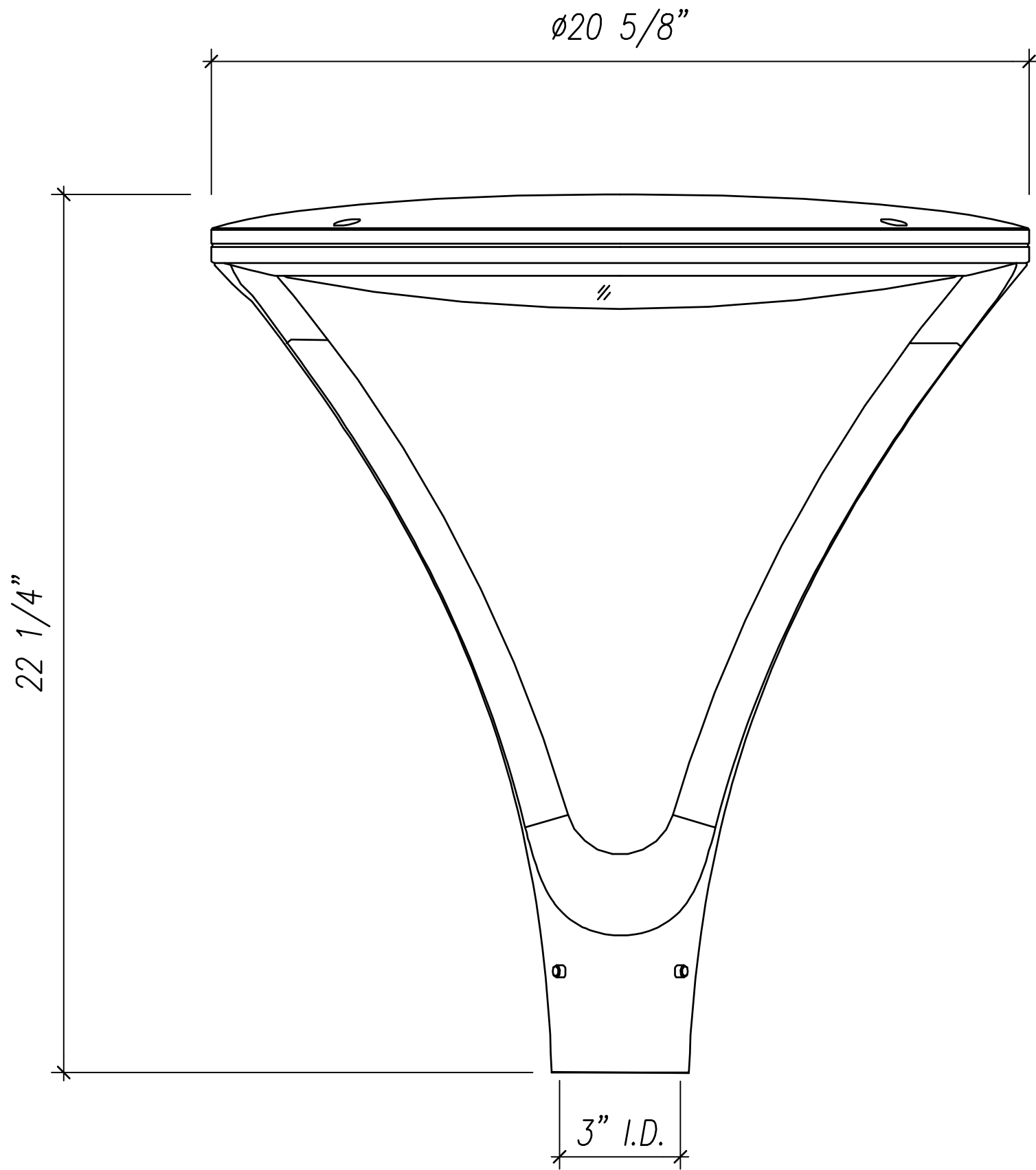
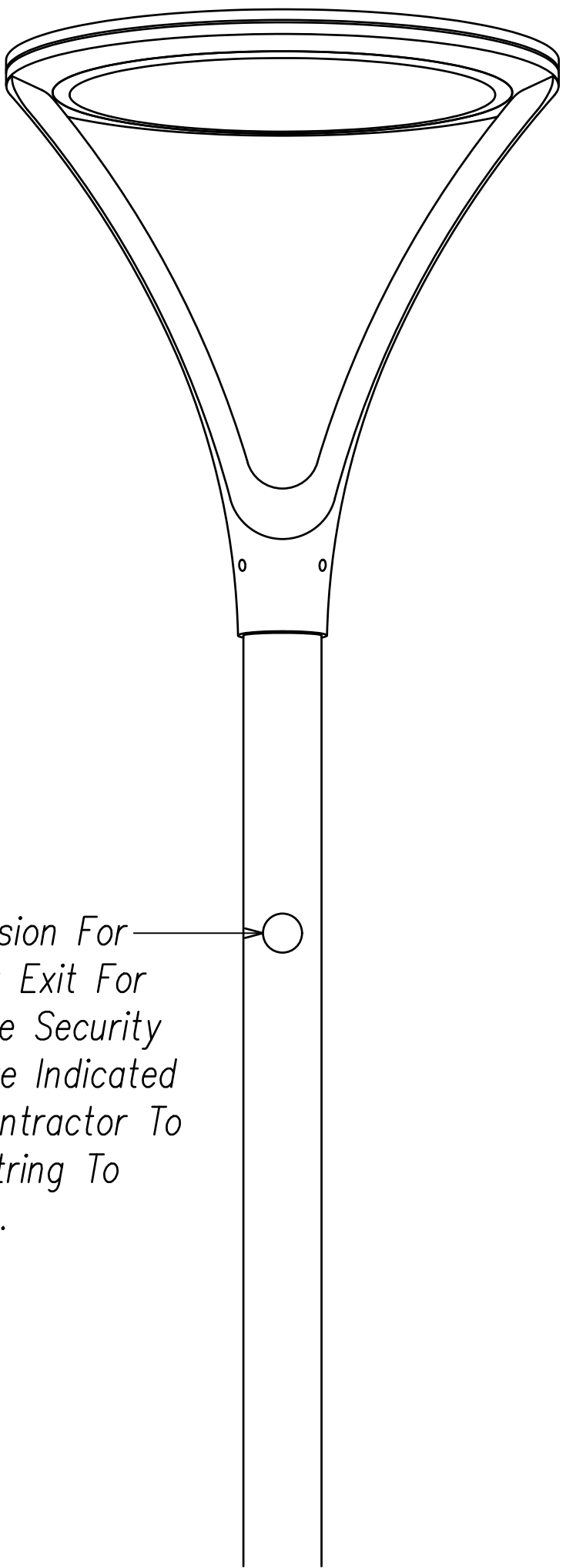
Luminaire Wattage: 28

Input Voltage: 277

⚠ Manufacturer: BEGA, Selux, Lithonia, Or Approved Equal

Model No.: 84 121 – K27 – Black – 1308HR Or Approved Equal

Provide Provision For 3/4" Conduit Exit For Future Private Security Camera Where Indicated On Plans. Contractor To Provide Pullstring To This Location.



GENERAL NOTES:

- Pedestrian Walkway Pole Lighting Shall Conform To Meet The New Design Requirements For State Highway Standards. See Sheet E-15.
- Manufacturer To Provide Certification That Pedestrian Walkway Pole Lighting Meet Code of Federal Regulations Section 635.410 – Buy America Requirements.
- All Hardware Shall Be Stainless Steel Unless Indicated Otherwise.
- All Nuts, Washers, And Bolts Shall be Stainless Steel.

POLE TOP LUMINAIRE DETAIL
NOT TO SCALE

09/10/21	Revised Note
Date	Revision

STEVEN H. SAKAI

LICENSED PROFESSIONAL ENGINEER

No. 7637-E

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE

4/30/22

EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PEDESTRIAN WALKWAY
LIGHTING DETAILS I

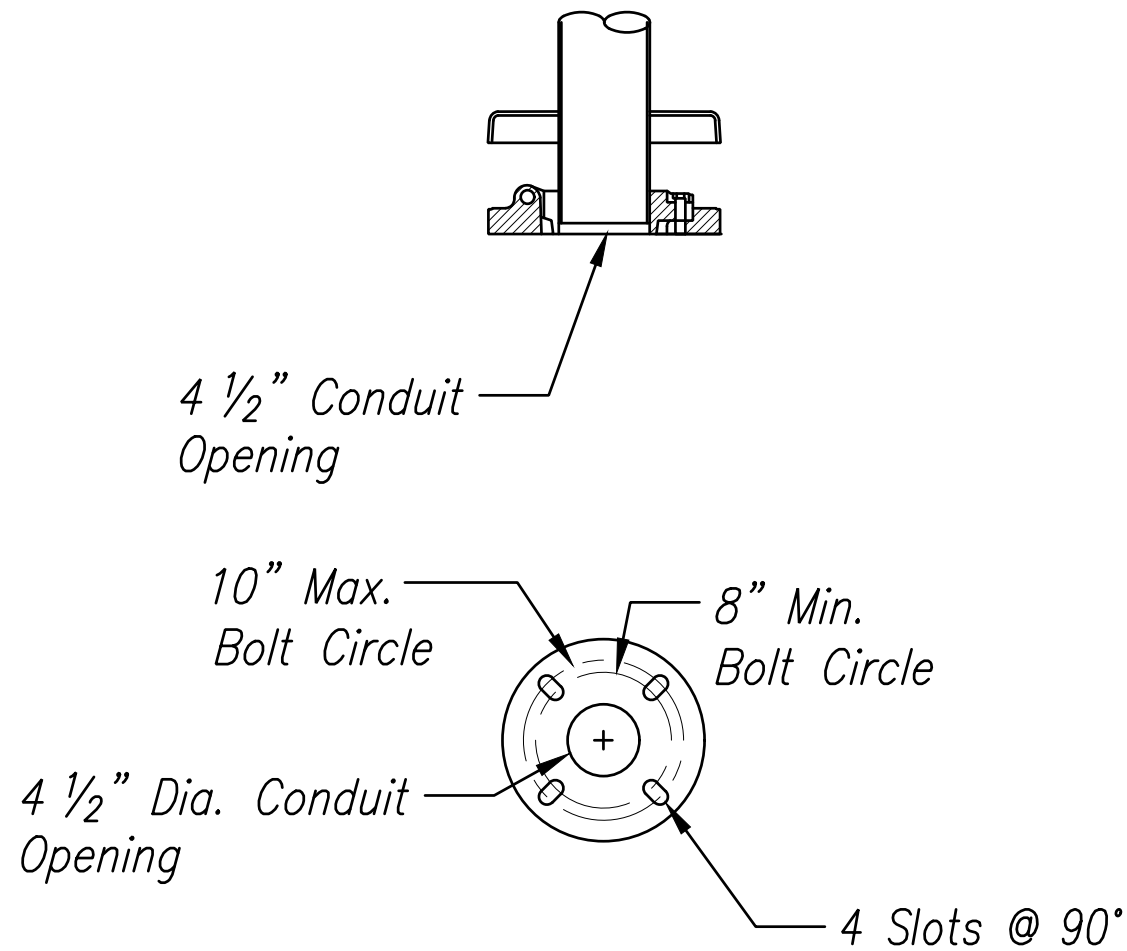
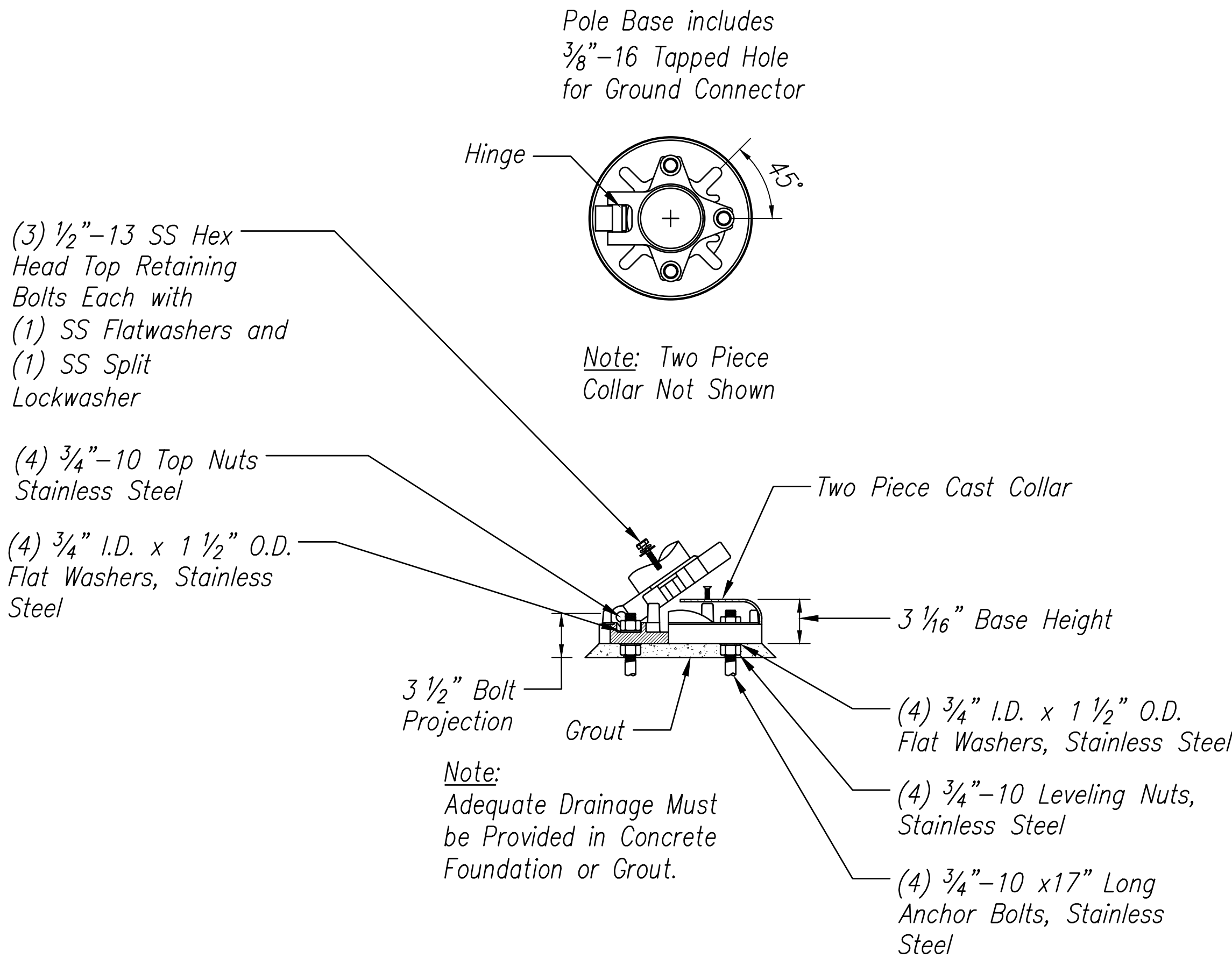
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Shown

Date: July 2021

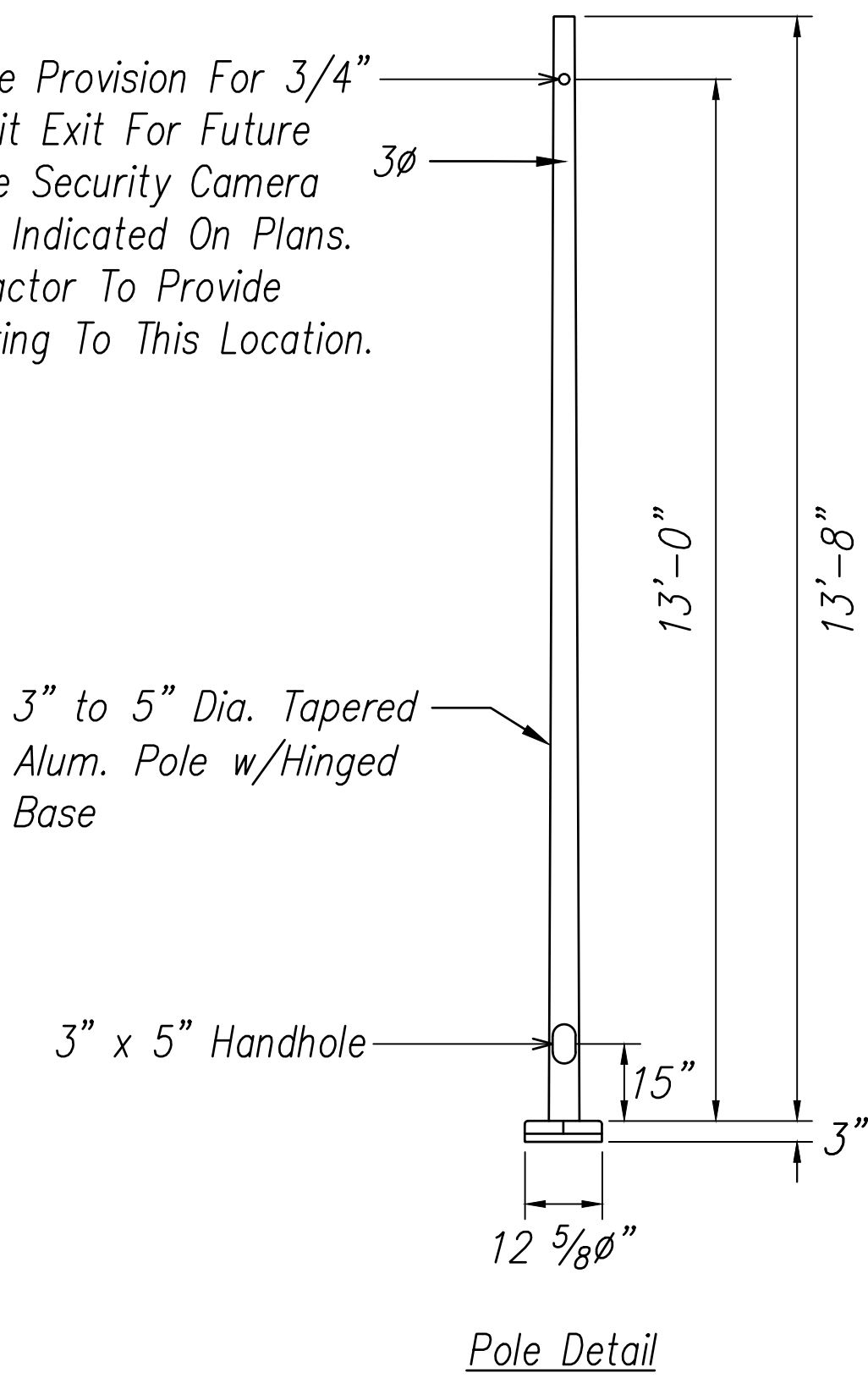
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 97	295



Base Detail
Standard (4) $\frac{3}{4}$ " x 17"
Anchor Bolts & Mounting Template
Supplied with Pole or in
Advance

Provide Provision For $\frac{3}{4}$ "
Conduit Exit For Future
Private Security Camera
Where Indicated On Plans.
Contractor To Provide
Pullstring To This Location.



Pole: 3"-5" Tapered Round Hinged Pole
Shaft: Extruded from All New Seamless 6068 Aluminum Alloy Tubing, Heat Treated to a T-6 Condition.

Anchor Base: Round Cast Aluminum A356 Alloy, Heat Treated to a T-6 Condition. Anchor Base and Shaft Continuously Welded at the Outside Top and Inside Bottom of the Anchor Base Casting. Pole Base to be Round Hinged Two Piece Casting. Hinge Pole Shaft to be Welded to Upper Base Casting which is Secured to Lower Base Casting by Three (3) Stainless Steel Bolts. Bolts to be Fastened to Cast-In Stainless Threaded Inserts in Lower Casting. Cast Round Two Piece Base Cover Supplied with Pole.

Anchor Bolts: Four (4) $\frac{3}{4}$ " x 17" Stainless Steel Anchor Bolts Supplied with Stainless Steel Double Nuts and Stainless Steel Washers.
Maximum Bolt Projection 3 $\frac{1}{2}$ ".

Weight: 62.0 lbs

MPH					
EPA	15.6	11.5	8.7	6.7	4.6

Caution: Raising or Lowering of the Pole Requires Adequate Preparation. Do Not Underestimate the Force Required to Raise or Lower Pole with Heavy Luminaires at the Top.

△ Manufacturer: BEGA, Selux, Lithonia, Or Approved Equal

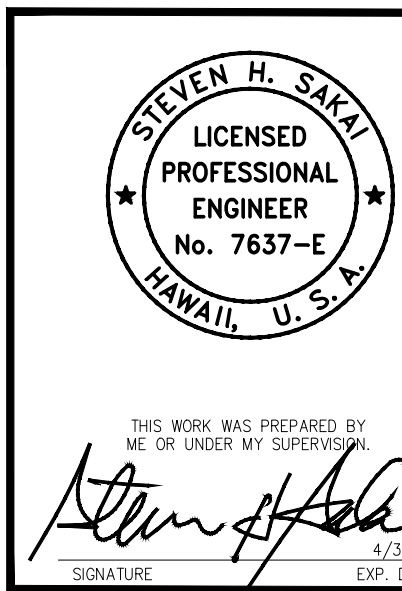
Model No.: 1308HR Or Approved Equal

GENERAL NOTES:

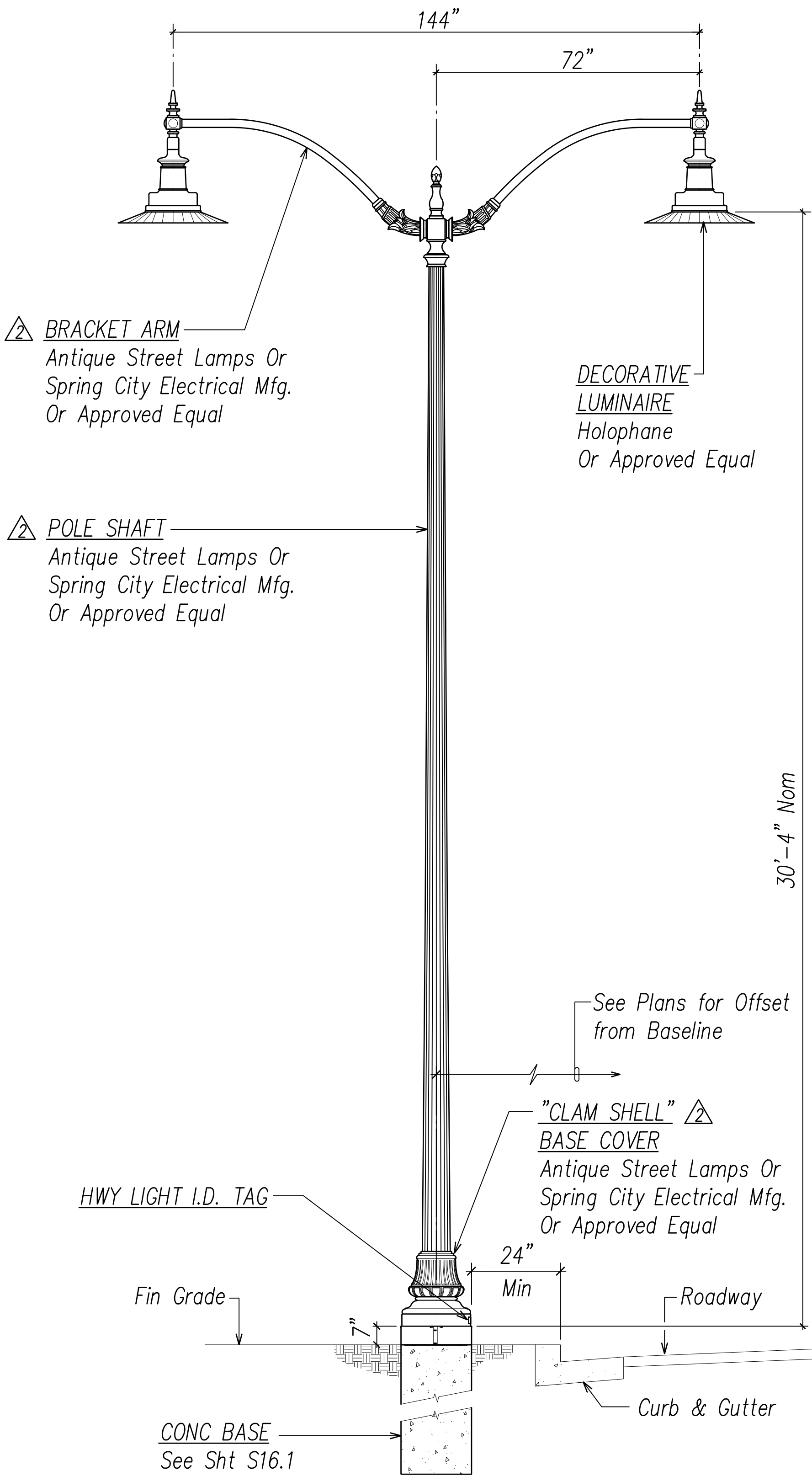
- Pedestrian Walkway Pole Lighting Shall Conform To Meet The New Design Requirements For State Highway Standards. See Sheet E-15.
- Details Shown On This Sheet Shall Be Modified To Meet AASHTO LRFD Design Requirements For State Highway Standards. See Sheet E-15.
- Manufacturer To Provide Certification That Pedestrian Walkway Pole Lighting Meet Code of Federal Regulations Section 635.410 - Buy America Requirements.
- All Hardware Shall Be Stainless Steel Unless Indicated Otherwise.
- All Nuts, Washers, And Bolts Shall be Stainless Steel.
- See Sheet S16.3 For Foundation Details.

POLE DETAILS
NOT TO SCALE

09/10/21	Revised Note
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PEDESTRIAN WALKWAY LIGHTING DETAILS II ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029) Scale: As Shown Date: July 2021	



FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 110	295

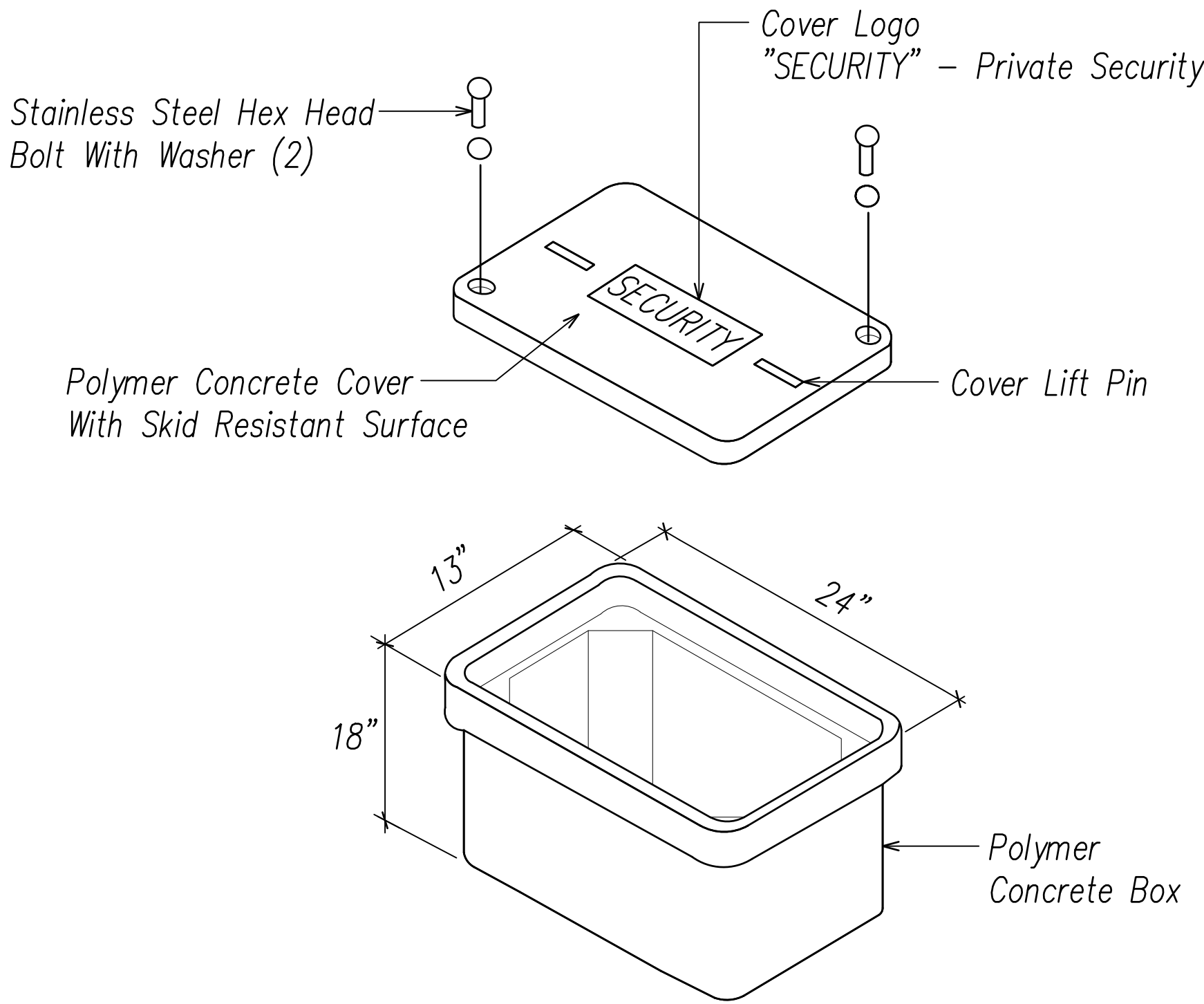


Notes:

1. See Sheets E-16 Thru E-18 For Additional Decorative Type "B" Highway Light Details.

ELEVATION

DECORATIVE TYPE "B" HIGHWAY LIGHT STANDARD
Not to Scale (Dual Arm)



Notes:

1. Box And Cover Assembly Shall Have A 20K Load Rating, ANSI TIER 22.
2. Box Dimensions: 13"W X 24"L X 18"D.
3. Pullbox Shall Be UL Listed.
4. Boxes Shall Be Manufactured By Armorcast Or Approved Equal.

PRIVATE SECURITY PULLBOX DETAIL
NOT TO SCALE

09/10/21	Revised Notes
Date	Revision

STEVEN H. SAKAI
LICENSED PROFESSIONAL ENGINEER
No. 7637-E
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Steven H. Sakai
SIGNATURE
4/30/22
EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PRIVATE SECURITY
PULLBOX DETAIL

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Shown
Date: July 2021

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 AD02X\AMP-50003 GENNOTES ADD1-2.DWG PLOT TIME: 09-09-21, 10:16 AM

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

1. General Specifications:

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

2. Design Specifications:

- A. American Association of State Highway and Transportation Officials (AASHTO) 2020 "LRFD Bridge Design Specifications", 9th Edition as amended by HDOT document dated August 8, 2014 with subject title "Design Criteria for Bridges and Structures".
- B. HDOT Document dated August 8, 2014 with subject title "Design Criteria for Bridges and Structures" and HDOT memorandum dated January 8, 2018 with subject title "Changes to Design Criteria for Bridges and Structures".
- C. AASHTO 2009 "LRFD Guide Specifications for the Design of Pedestrian Bridges", 2nd Edition including all subsequent interim revisions and editions.

3. Design Loads:

- A. Dead Load: A weight of 25 psf for future wearing surface from curb to curb has been provided for in the design.
- B. Utility Load: An allowance of 150 plf on each side of the bridge for utility loads has been provided for in the design.
- C. Live Load: AASHTO Pedestrian Loading = 90 PSF
AASHTO Vehicular Loading = H10 Truck
- D. Seismic Loads:

PGA = 0.174 g F_{PGA} = 1.2 A_s = 0.209 g
S_s = 0.398 g F_a = 1.20 S_{DS} = 0.477 g
S₁ = 0.109 g F_v = 1.691 S_{DI} = 0.185 g
Site Class = C Seismic Zone = 2

4. Concrete:

STRUCTURAL GENERAL NOTES:

A. All concrete strengths shall be as noted below:

Item No.	Structural Parts	Compressive Strength, f'c (28 Days)	Maximum Water / Cementitious (W/C)	Maximum Cementitious Material Content (lbs./cy)	Included Admixtures (See Notes Below in This Section)
(1)	Drilled Shafts	5,000 psi	0.45	720	C
(2)	Drilled Shaft Cap, Pier, and Crash Barriers	7,000 psi	0.40	700	C, D
(3)	Abutments, Retaining Walls, Planter Walls, and Skeg Walls	6,000 psi	0.40	670	C, D, E
△2 (4)	Foundation Slabs	5,000 psi	0.43	645	C, D, E
(5)	Precast Prestressed Planks	10,000 psi	0.35	752	C, D
(6)	Bridge Deck Topping, Edge Beams, Approach Slabs, Sleeper Slabs, End Beams, Corbels, and Pier Diaphragm	6,000 psi	0.40	670	C, D, F
(7)	Pedestrian Railings	5,000 psi	0.45	620	C, D, E
△2 (8)	Stairs and Curb	5,000 psi	0.43	645	C, D, F
△2 (9)	Walkway Slab (Portland Cement Conc. Sidewalk) and Impact Attenuator Foundation Slab	5,000 psi	0.43	645	D, F
(10)	Except as noted otherwise, all others	5,000 psi	0.45	620	C

- B. The use of calcium chloride in any concrete is prohibited.
- C. Amine carboxylate corrosion inhibiting water-based admixture such as Cortec MCI 2005 NS or approved equal shall be added at a dosage of 24 ounces per cubic yard of concrete.
- D. Shrinkage reducing admixture such as Masterlife SRA 35 or approved equal shall be added at a dosage of 128 ounces per cubic yard of concrete or as recommended by the manufacturer.
- E. Alkali resistant structural glass fiber such as CEMFIL, ANTI-CRAK HP67/36 or approved equal shall be added to the concrete mix. The dosage rate shall be 15 lbs. per cubic yard of concrete for CEMFIL or the equivalent amount of approved equal to achieve similar properties as the glass dosage. The fiber shall be added to the concrete as recommended by the manufacturer during the mixing process.
- F. A 1 1/2" long macro synthetic fiber such as Strux 90/40 or a 2 1/4" long macro synthetic fiber such as Forta-Ferro shall be added to the concrete mix. The dosage shall be 7.5 lbs. per cubic yard of concrete or the equivalent amount of approved equal to achieve similar properties.

4. Concrete (Continued):

- G. Contractor is not limited to only adding admixtures listed on these notes. Other admixtures may be added upon approval of the Engineer.
- H. If removal/stripping of formwork occurs within 7 days of concrete placement then concrete shall be cured. All exposed concrete shall be cured using Sinak Lithium Cure 1000 or approved equal at a coverage rate of 200 sq. ft. per gallon.
- I. Remove curing that may affect binding from all areas requiring future bonding unless a curing agent such as Sinak Lithium Cure 1000 or accepted equal that does not affect bond and provide equal or better curing is used.
- J. The Contractor has the option to design the concrete for all items to be pumpable and flowable. All concrete shall be designed for minimum segregation and separation.
- K. All concrete shall include at least one of the three methods stated in Section 601 of the Special Provisions, or approved equal, to reduce the embodied carbon footprint in concrete.

5. Anti-Graffiti Coating:

- A. All concrete surfaces, excluding the soffit of the bridge planks and walking surfaces of the walkway slab, bridge deck, and the stairs shall receive an anti-graffiti coating such as Protectosil Antigraffiti, or approved equal. Coating shall be applied in three coats at a coverage rate of 125 ft²/gallon. Anti-graffiti coating shall be incidental to respective concrete work.

6. Lightweight Cellular Concrete Backfill:

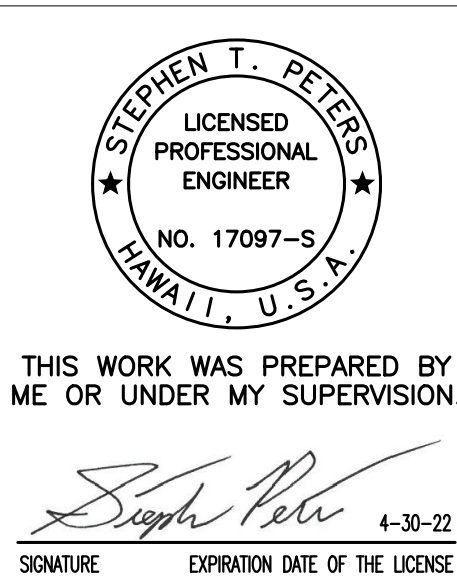
- A. 28-day compressive strength shall be 90 pounds per square inch maximum.
- B. In place density shall be less than 45 pounds per cubic foot
- C. Refer to project specifications and drawings for location and limits of placement.
- D. Lightweight Cellular Concrete Backfill shall be placed in lifts not exceeding 2'-0".

△2

9/10/21 Revised Notes

DATE

REVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRUCTURAL GENERAL NOTES

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

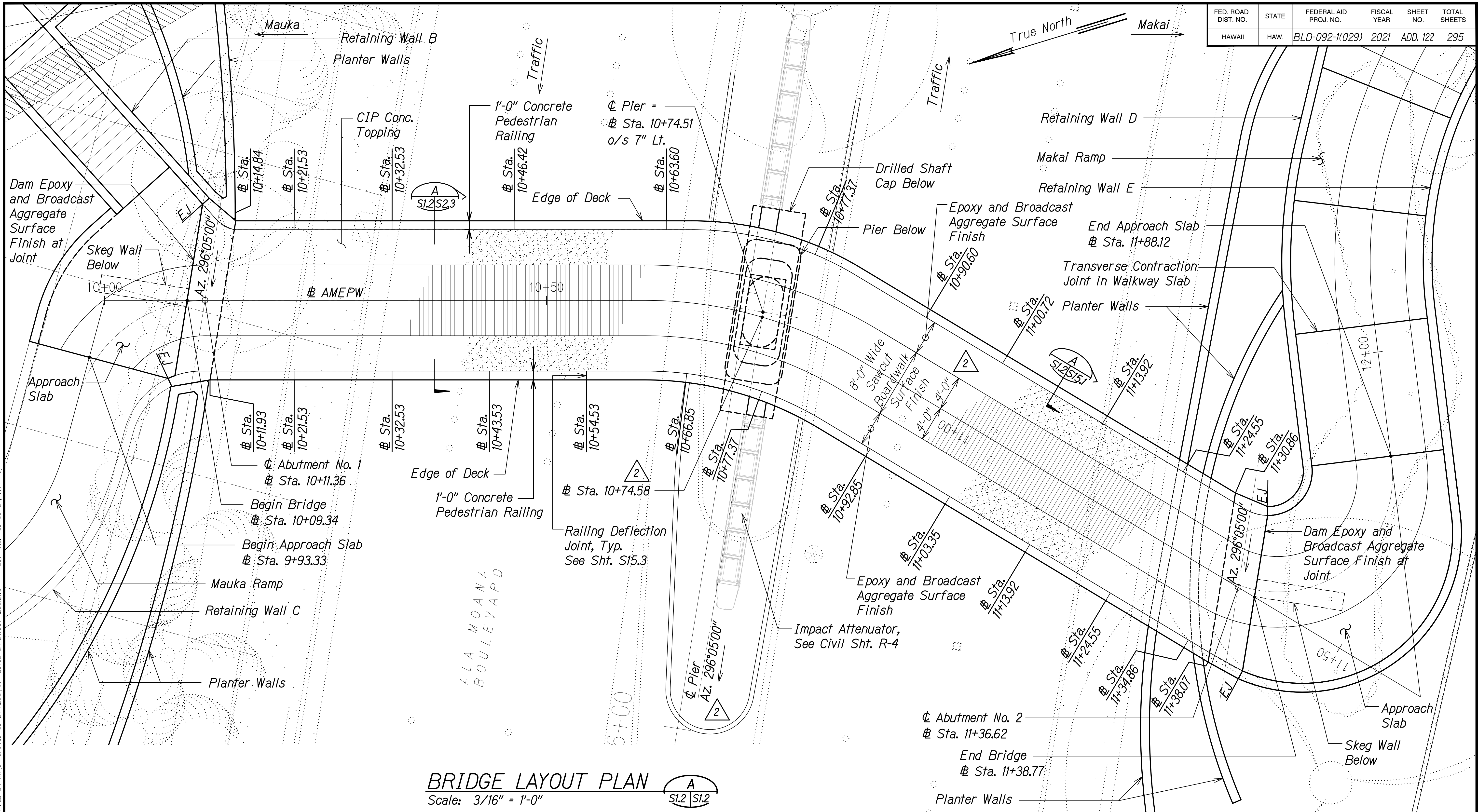
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Date: July 2021

SHEET No. S0.3 OF 6 SHEETS

ADD. 117

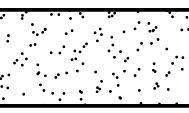
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 122	295



Legend:



8'-0" Wide Sawcut Boardwalk Surface Finish. See 1/S17.6 for Detail



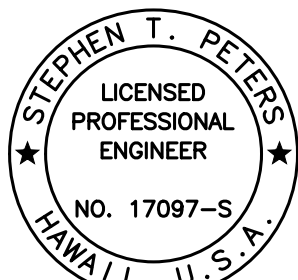
Epoxy and Broadcast Aggregate Surface Finish. See Special Provisions Section 680.

Notes:

- All concrete walkway surfaces and stairs shall receive an initial medium broom finish.
- Sawcut Boardwalk surface finish shall be considered incidental to Pay Item 634.1000.

2

9/10/21	Revised Callouts and Added Dimensions
DATE	REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Stephen T. Peters*
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

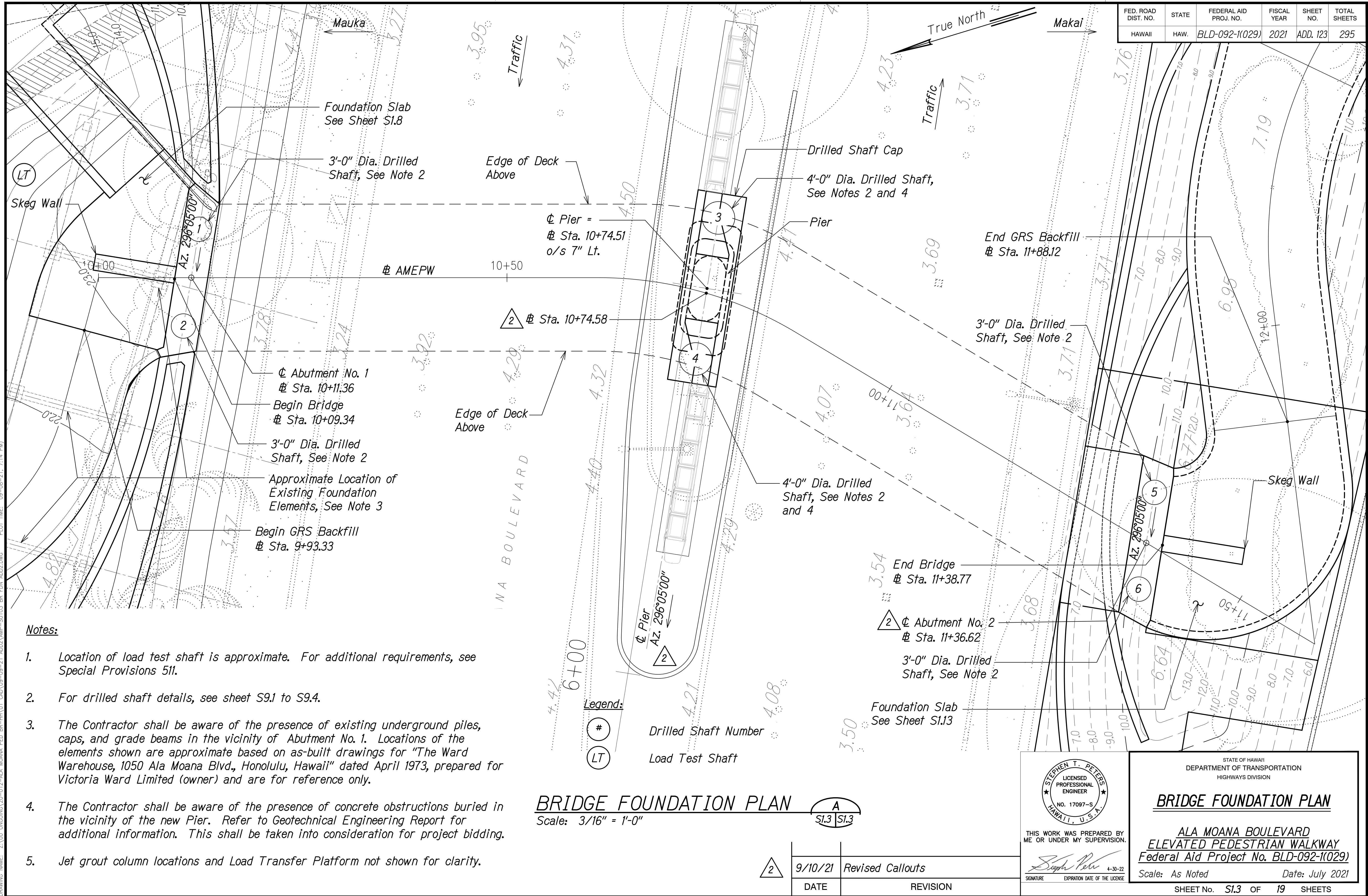
BRIDGE LAYOUT PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.2 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 123	295



Notes:

1. Location of load test shaft is approximate. For additional requirements, see Special Provisions 511.
2. For drilled shaft details, see sheet S9.1 to S9.4.
3. The Contractor shall be aware of the presence of existing underground piles, caps, and grade beams in the vicinity of Abutment No. 1. Locations of the elements shown are approximate based on as-built drawings for "The Ward Warehouse, 1050 Ala Moana Blvd., Honolulu, Hawaii" dated April 1973, prepared for Victoria Ward Limited (owner) and are for reference only.
4. The Contractor shall be aware of the presence of concrete obstructions buried in the vicinity of the new Pier. Refer to Geotechnical Engineering Report for additional information. This shall be taken into consideration for project bidding.
5. Jet grout column locations and Load Transfer Platform not shown for clarity.

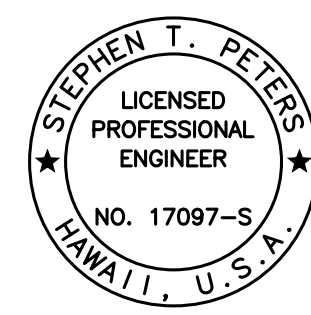
BRIDGE FOUNDATION PLAN

Scale: 3/16" = 1'-0"

A
S1.3 S1.3

2

9/10/21	Revised Callouts
DATE	REVISION



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ME OR UNDER MY SUPERVISION.

Signature: *Stephen T. Peters*
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BRIDGE FOUNDATION PLAN

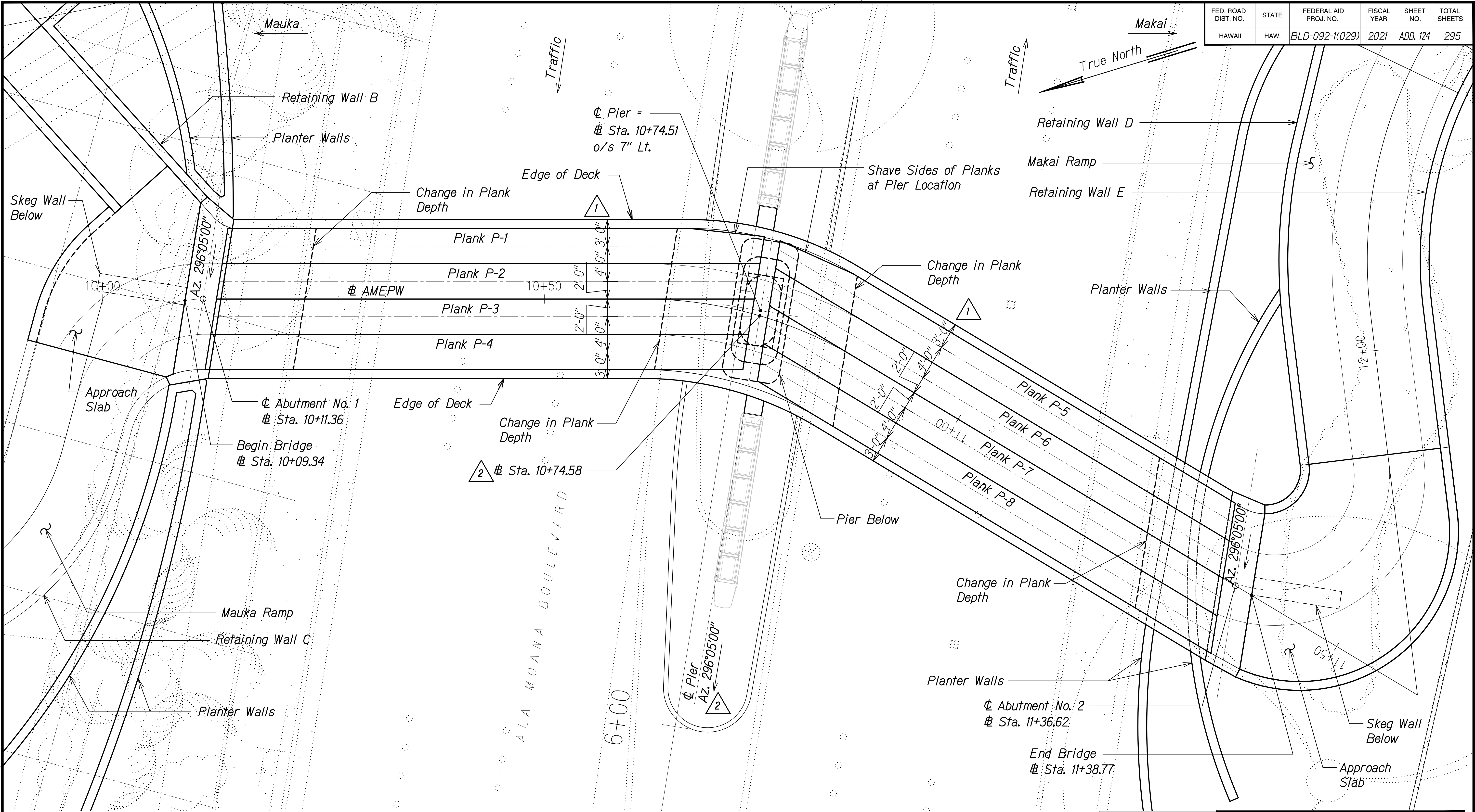
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.3 OF 19 SHEETS

ADD. 123

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 124	295



Notes:

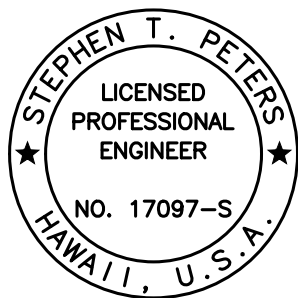
- See S4 series for prestressed concrete plank details.
- Azimuth for Planks P-1 thru P-4 = 16° 54' 19.4"
Azimuth for Planks P-5 thru P-8 = 47° 54' 19.4"

BRIDGE FRAMING PLAN

Scale: 3/16" = 1'-0"

A
S1.4 S1.4

2	9/10/21	Added Note and Revised Callouts
1	8/30/21	Added Dimensions
	DATE	REVISION



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: *Stephen T. Peters*
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

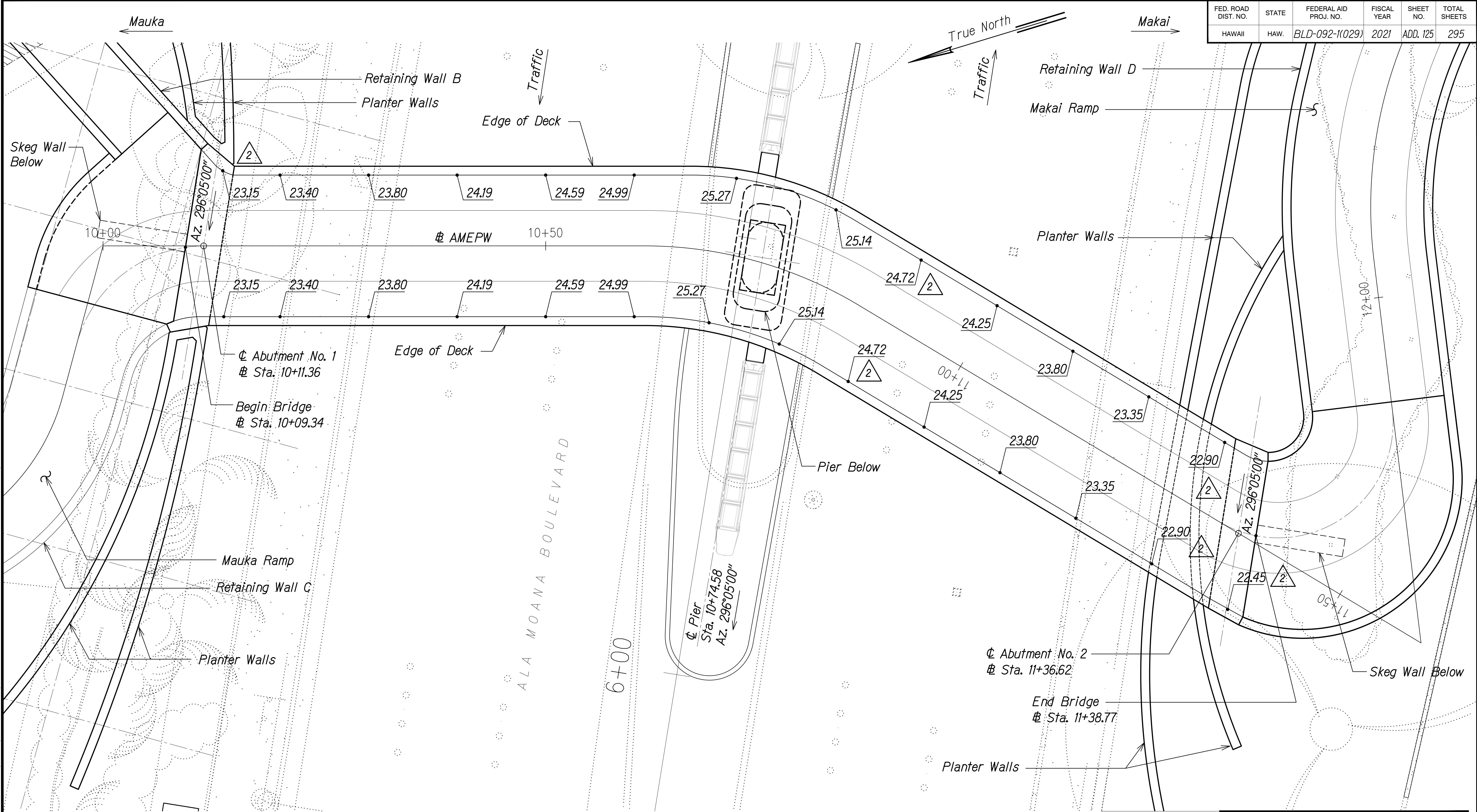
BRIDGE DECK FRAMING PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.4 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 125	295



2 Note:

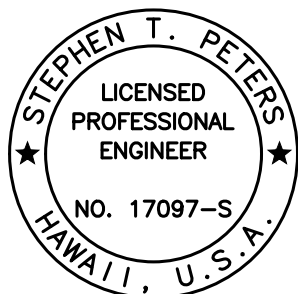
See Civil Sheets CE-3 through CE-5 for on bridge finish grade spot elevations.

BRIDGE FINISH GRADE PLAN
Scale: 3/16" = 1'-0"

A
S1.5 S1.5

2

9/10/21	Revised & Deleted Elev. Callouts and Added Note
DATE	REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: Stephen T. Peters
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

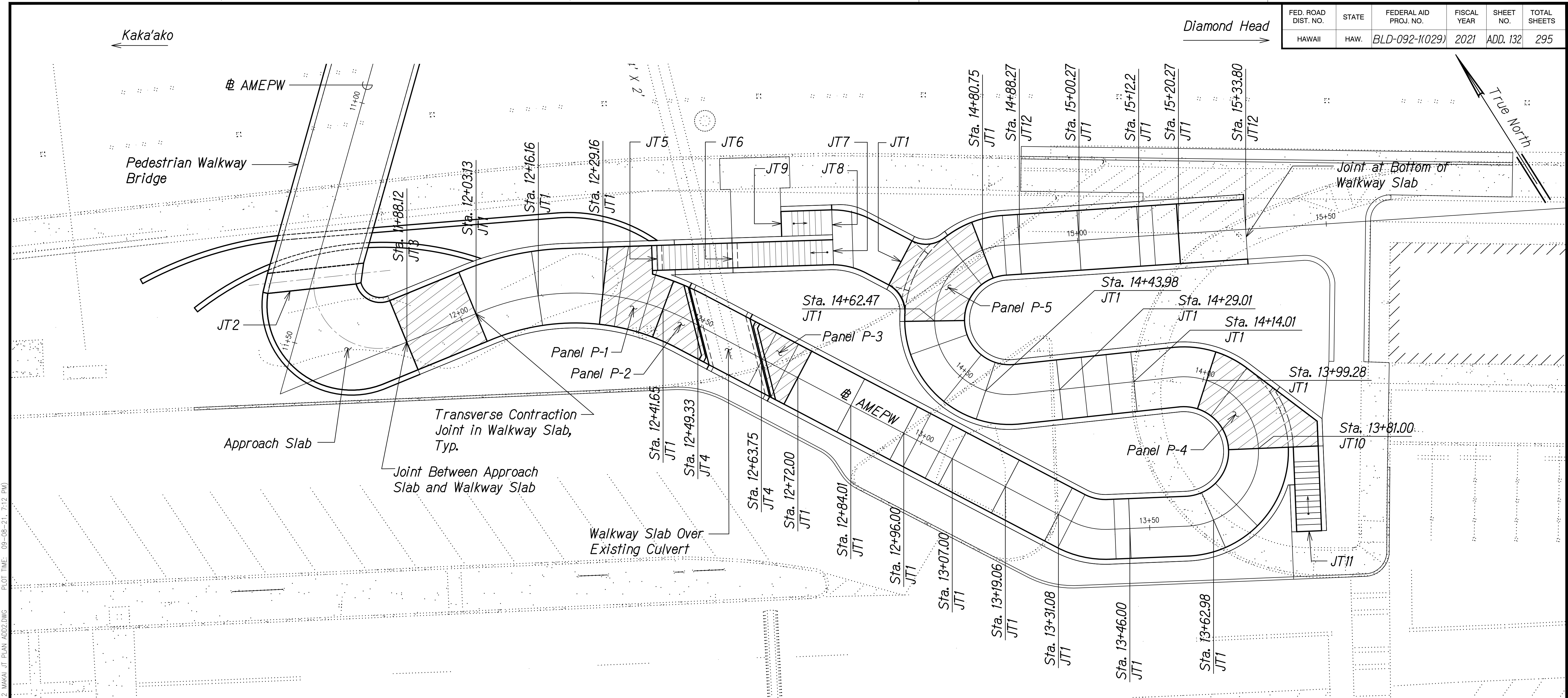
BRIDGE FINISH GRADE PLAN

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S1.5 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 132	295



LEGEND:

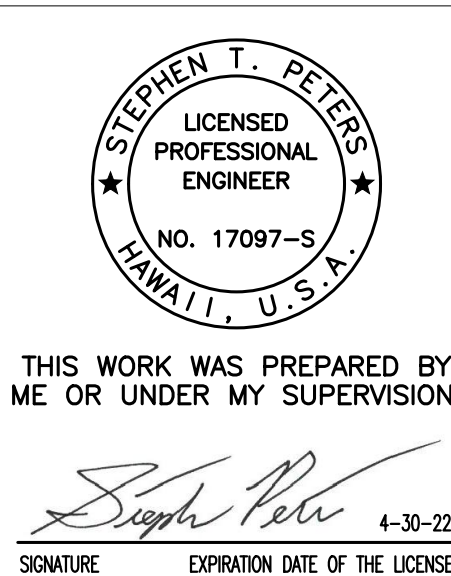
JT1	See 1/S17.1	JT8	See A/S14.10
JT2	See A/S5.12 and A/S10.3	JT9	See A/S14.10
JT3	See B/S10.4	JT10	See A/S14.11
JT4	See A/S13.4	JT11	See A/S14.11
JT5	See A/S14.8	JT12	5/S17.1
JT6	See A/S14.8 and A/S14.9	JT13	6/S17.1
JT7	See A/S14.9		

MAKAI RAMP WALKWAY JOINTING PLAN
Scale: 1" = 10'-0"

Odd Shaped Panel Sections with Added #4 @ 8" o.c. EW, Reinforcing. See Sheet S17.9 for additional added reinforcing in select panels.

2

9/10/21	Revised Note
DATE	REVISION



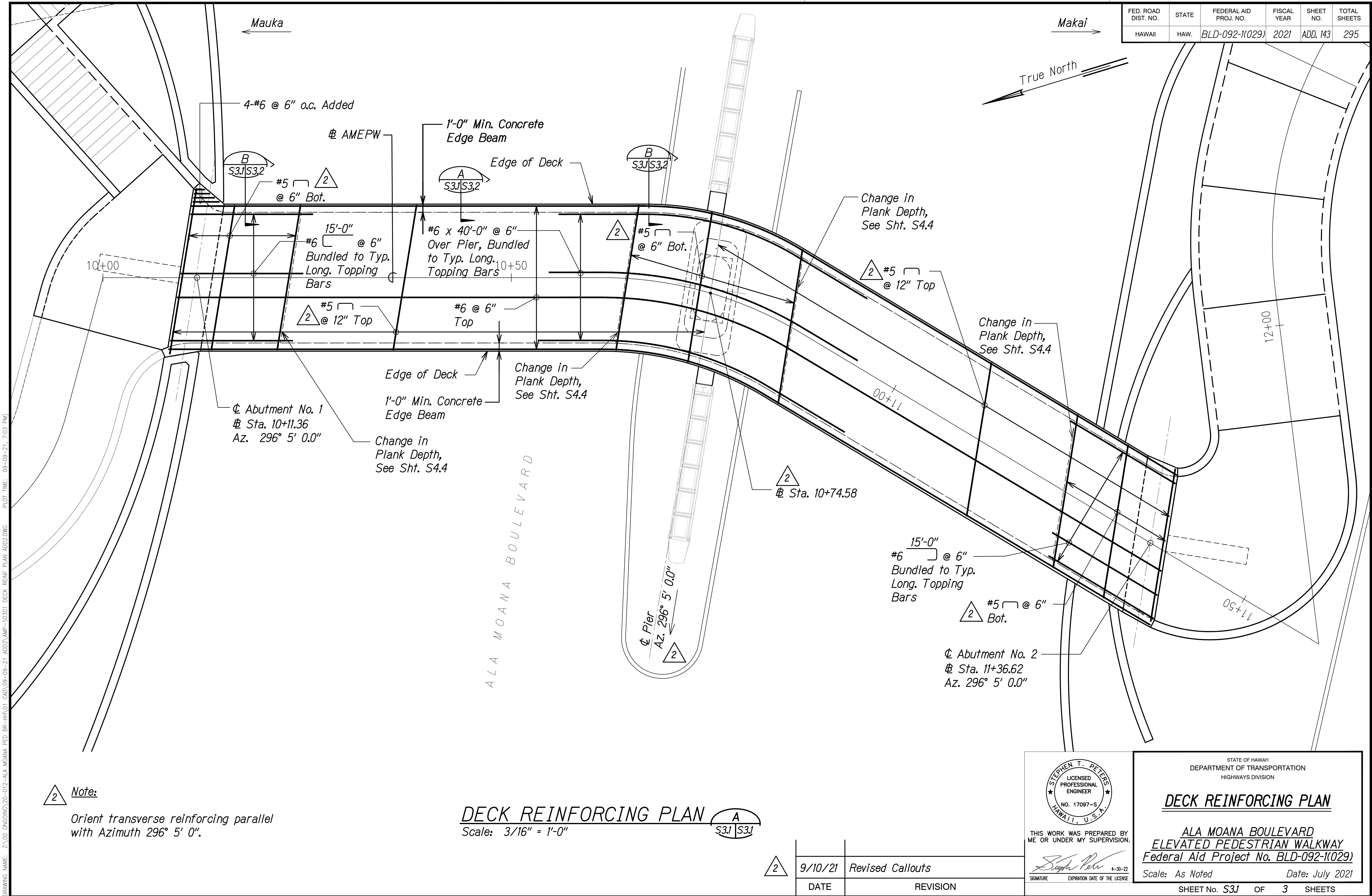
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**MAKAI RAMP WALKWAY
JOINTING PLAN**

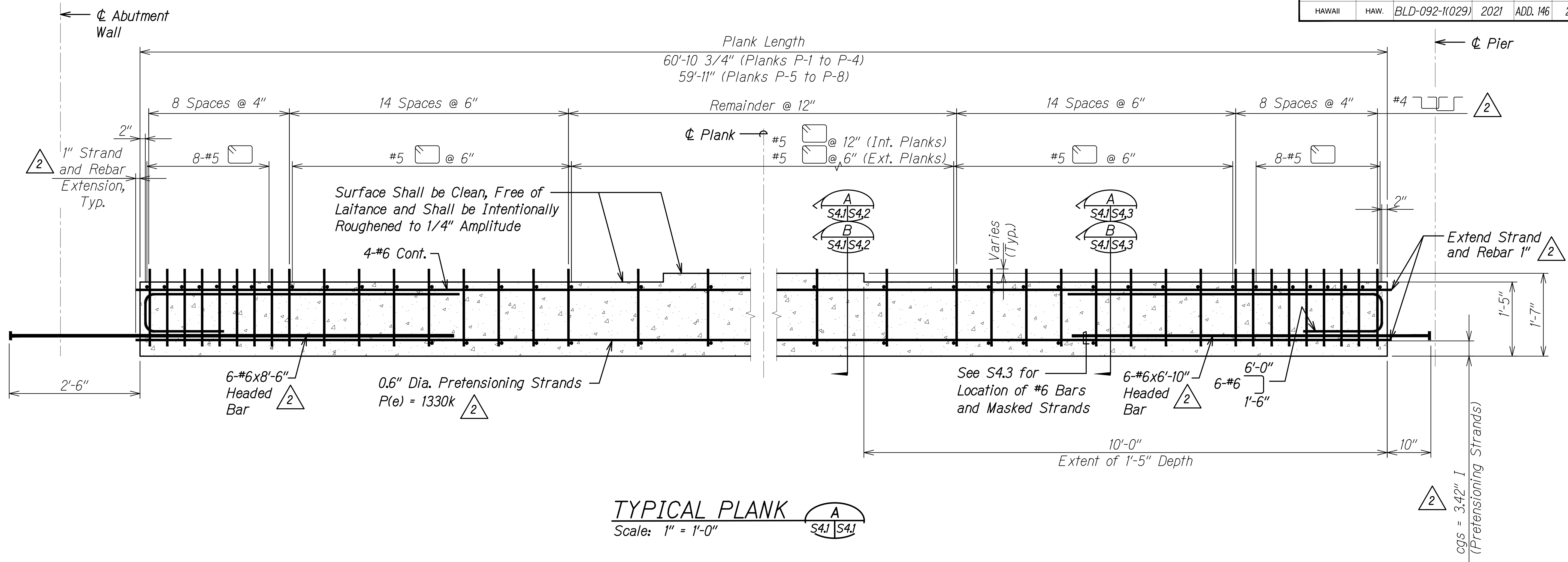
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 143	295



FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 146	295



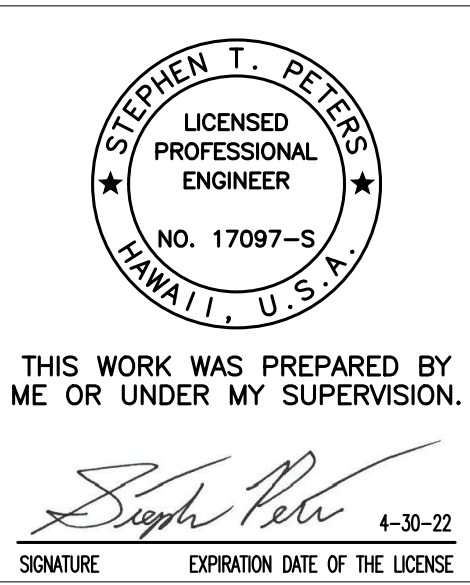
TYPICAL PLANK
Scale: 1" = 1'-0"

PRESTRESSED PLANK NOTES

- Concrete 28 day strength $f'_c = 10,000$ PSI (at time of topping pour). Concrete strength at time of pretensioning strand release $f_{ci} = 5,000$ psi. See Structural General Note for Shrinkage Reducing Admixture (SRA).
- Pretensioned strands shall be 7 wire 0.6" dia. low relaxation steel strands (Area = 0.215 in²) ASTM A416 grade 270 ksi. See Specs. Section 504 for definition of P(e).
- Non-prestressed reinforcing steel shall be ASTM A615 Grade 60.
- Strand pattern shall be symmetrical about the longitudinal ϕ of the plank.
- Strand release sequence shall not induce any lateral deflection of the plank.
- Contractor shall submit shop drawings indicating proposed pretensioned strand details, post tensioning details, calculations, releasing sequence, reinforcing details, hold down device details, and all other applicable details for precast plank to the Engineer prior to fabrication. See Special Provisions Sect. 504 for additional requirements.
- During curing, care shall be taken to avoid any lateral deflection of the plank due to improper orientation.
- Lifting devices shall be placed as close as possible to the centerline of bearing of the plank. Details and locations of lifting devices shall be submitted to the Engineer for approval. Such approval does not relieve the Contractor of his responsibilities if beam is damaged due to failure of the lifting device.
- See sheet S4.3 for pretensioned strand masking. Masking Pattern shall be uniform and symmetrical. Contractor shall submit pattern shop drawings.
- Pretensioned strands, and longitudinal bars (6-#6 —I, and 6-#6 —J) shall be parallel in plan with the alignment of the planks.
- Stirrups and ties shall be in plan with ϕ abutment walls and pier (Az. 296° 05' 00").
- Planks are designed for unshored construction.

2

9/10/21	Revised Callouts
DATE	REVISION



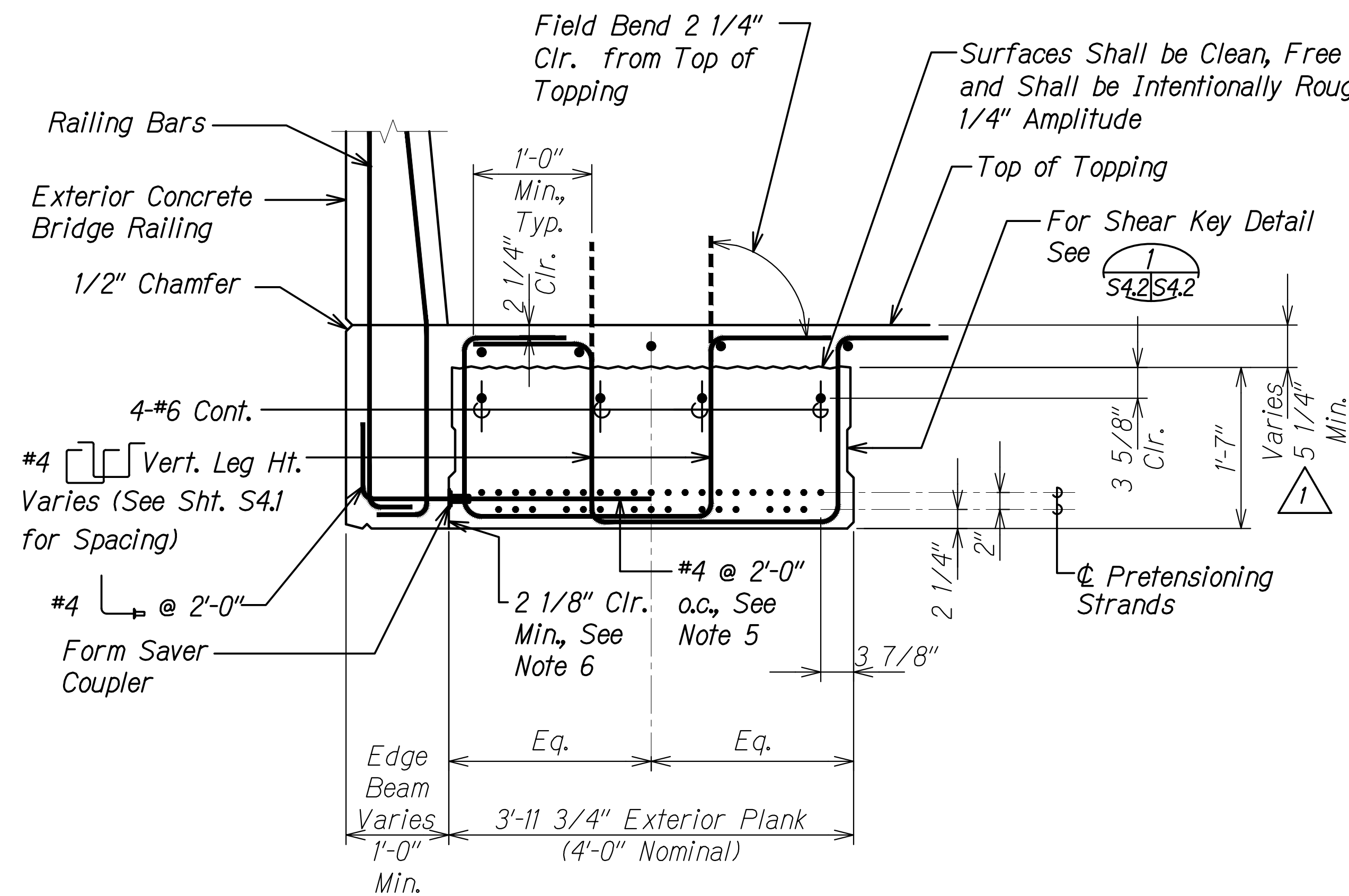
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: *Stephen T. Peters*
EXPIRATION DATE OF THE LICENSE: 4-30-22

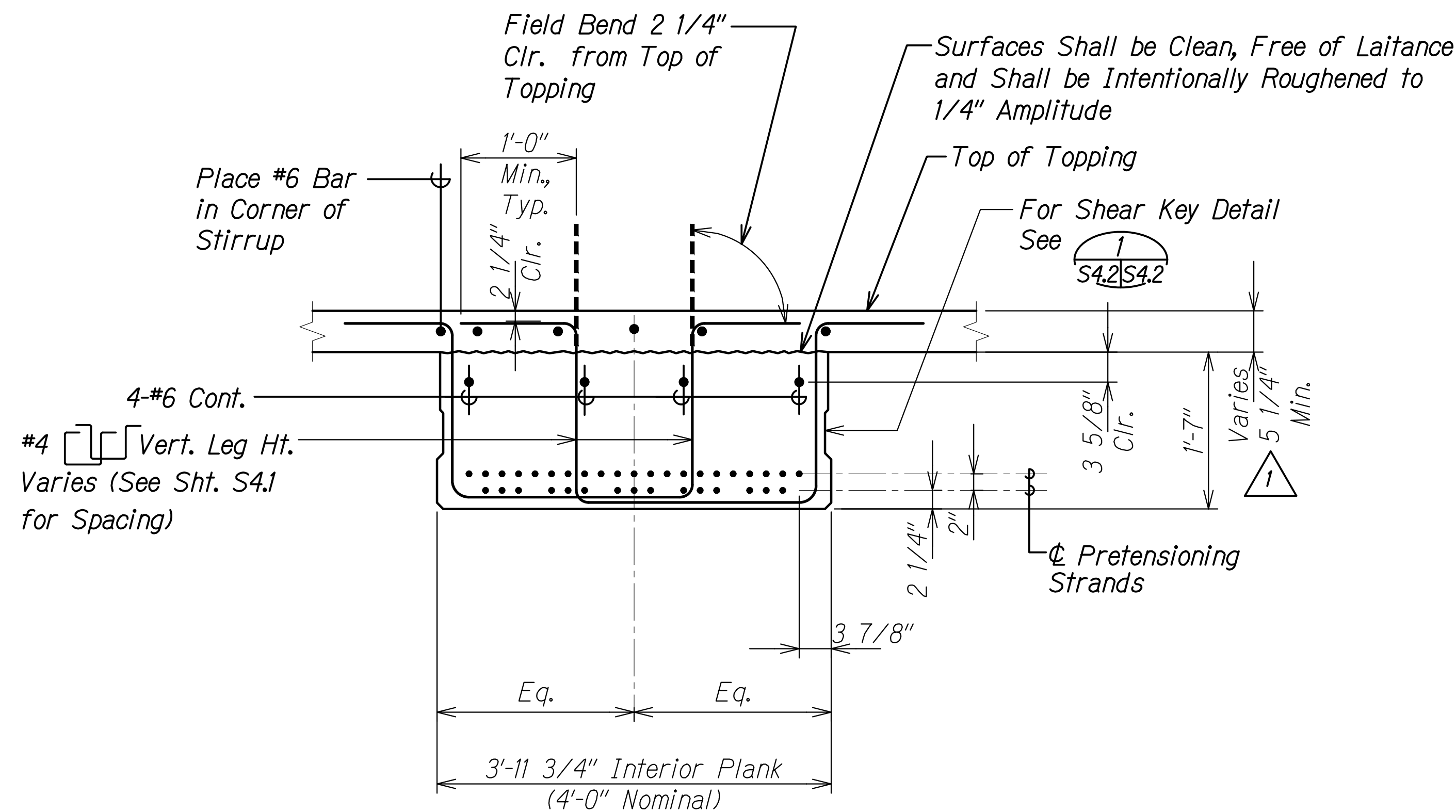
Scale: As Noted Date: July 2021

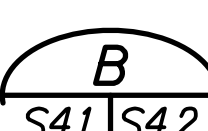
SHEET No. S4.1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 147	295

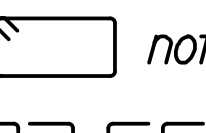
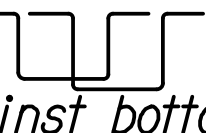


EXTERIOR PLANK  S4.1 S4.2
Scale: 1" = 1'-0"

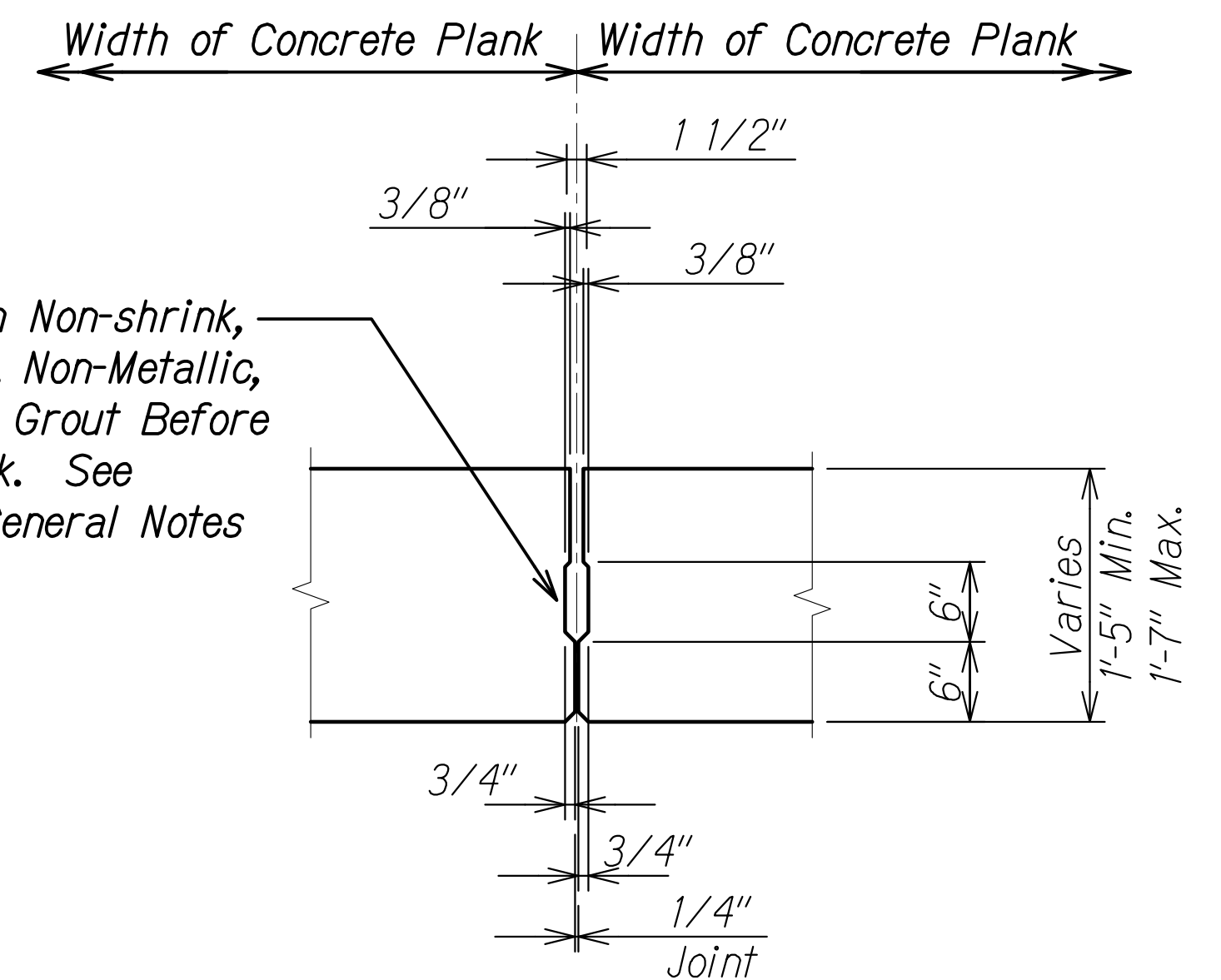


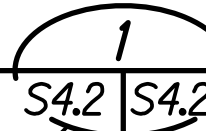
INTERIOR PLANK  S4.1 S4.2
Scale: 1" = 1'-0"

Notes:

- See sheet S3.1 for topping reinforcing.
- For location of stirrups, see sheet S4.1.
- Adjacent planks not shown for clarity.
- #5  not shown for clarity.
-  #4  bars to be placed tight against bottom side of strands.
- Clearance shall be taken to the edge of the formsaver mounting plate.

Fill Key with Non-shrink, Non-Gaseous, Non-Metallic, Cementitious Grout Before Pouring Deck. See Structural General Notes

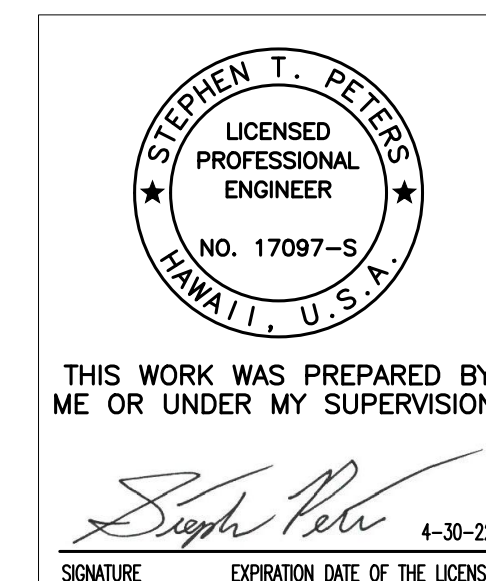


SHEAR KEY DETAIL  S4.2 S4.2
Scale: 1" = 1'-0"

S4.3

ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

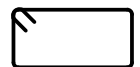
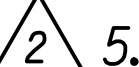
DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA FED BR-HH\01 CAD\09-09-21 ADDX\AMP-S0401 PLANK ADD1-2.DWG PLOT TIME: 09-09-21, 3:53 PM

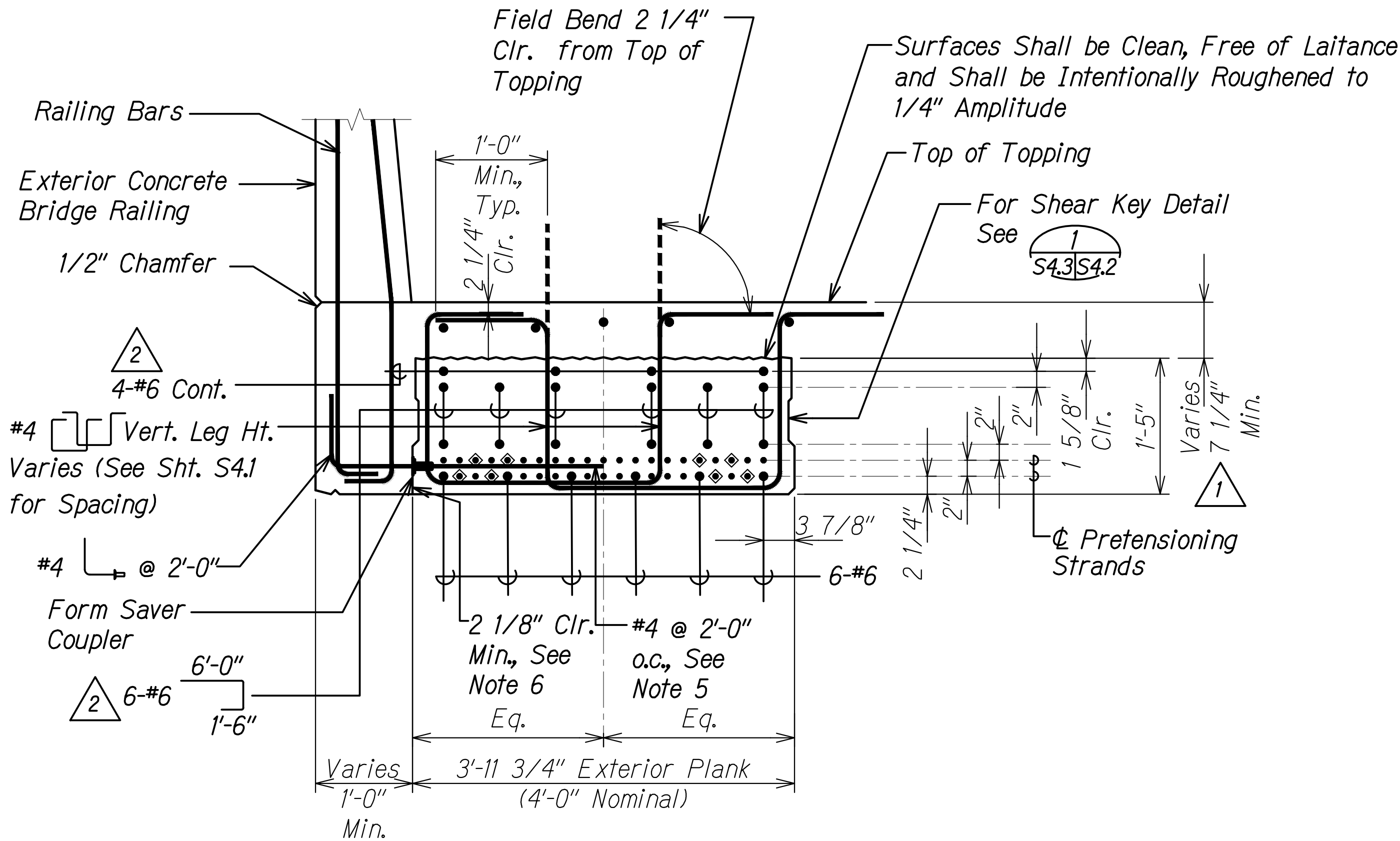


DATE	REVISION
9/10/21	Revised Callout
8/30/21	Revised Dimensions
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	Scale: As Noted Date: July 2021
SHEET No. S4.2 OF 5 SHEETS	

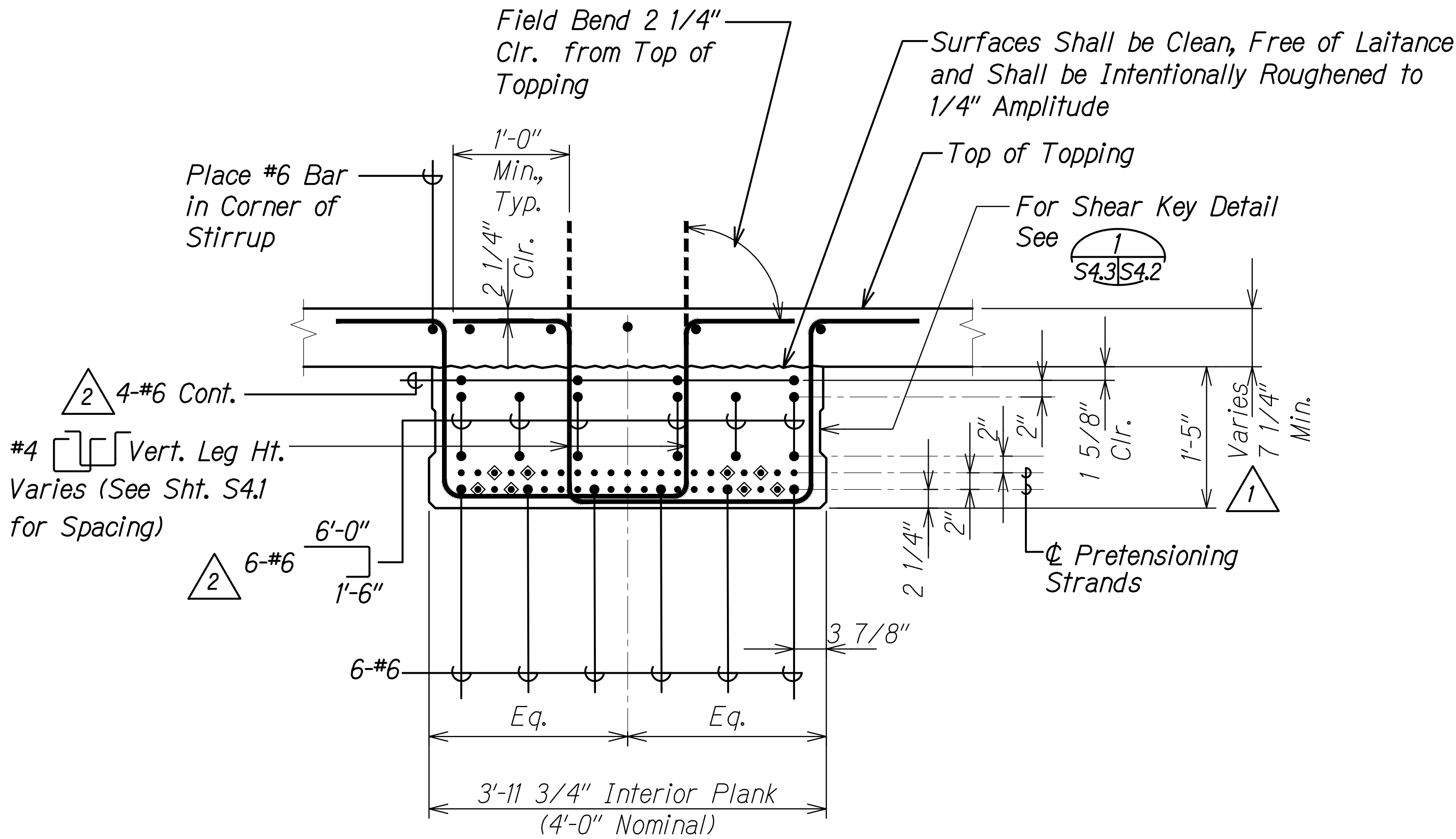
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 148	295

Legend for Int. & Ext. Planks:
◆ Mask strands 6'-0" from ends

- Notes:
- See sheet S3.1 for topping reinforcing.
 - For location of stirrups, see sheet S4.1.
 - Adjacent planks not shown for clarity.
 - #5  not shown for clarity.
 -  #4  to be placed tight against bottom side of strands.
 - Clearance shall be taken to the edge of the formsaver mounting plate.

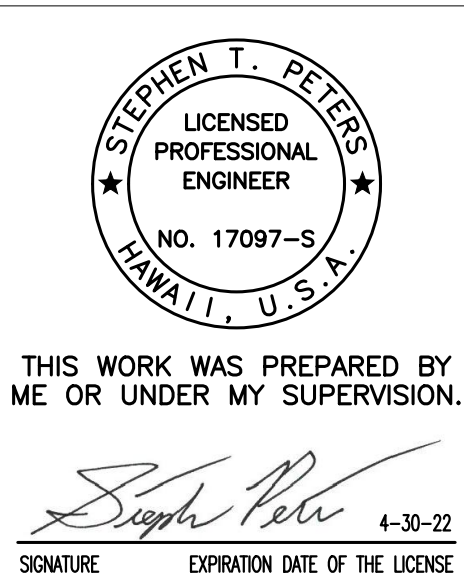


EXTERIOR PLANK 
Scale: 1" = 1'-0"



INTERIOR PLANK 
Scale: 1" = 1'-0"

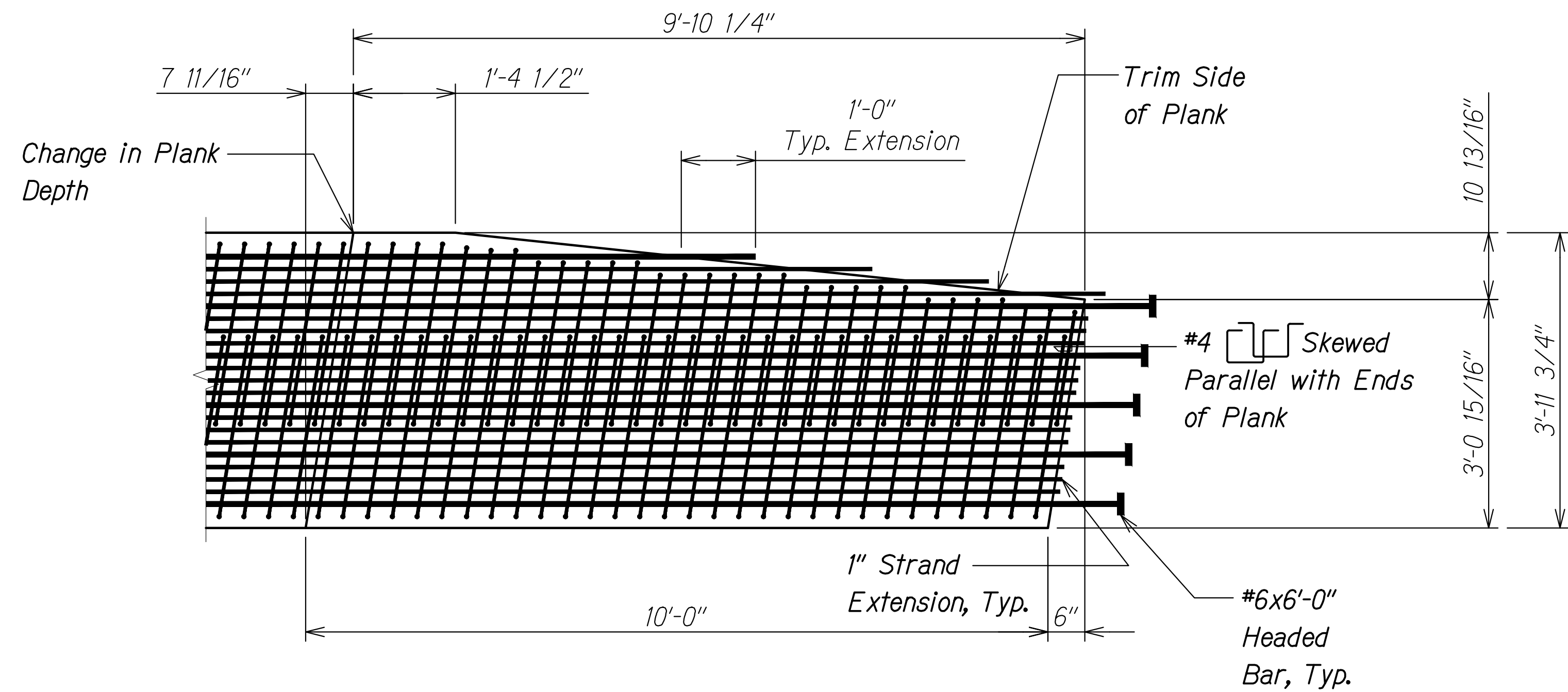
	9/10/21	Revised Callouts
	8/30/21	Revised Dimensions
DATE	REVISION	



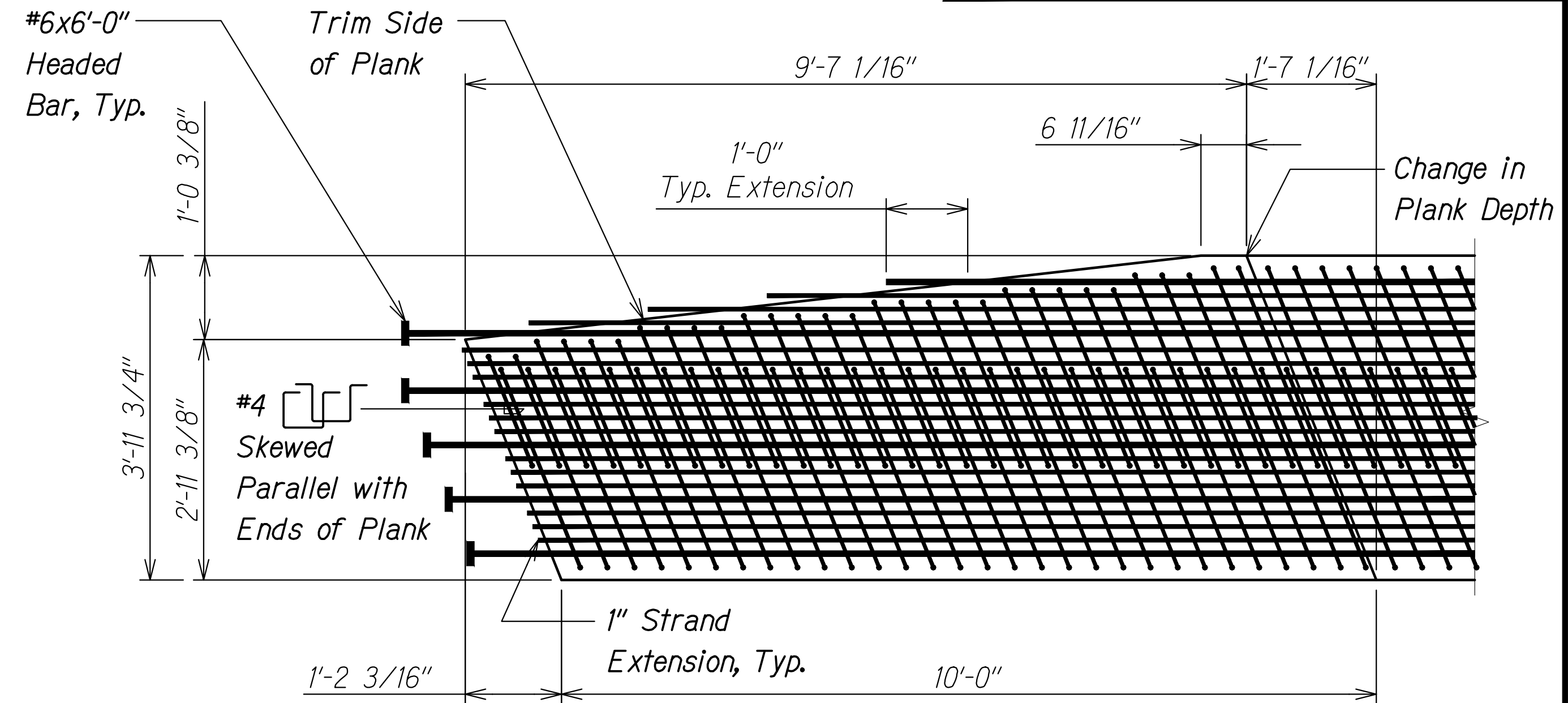
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PLANK SECTIONS	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: As Noted	Date: July 2021

SHEET No. S4.3 OF 5 SHEETS

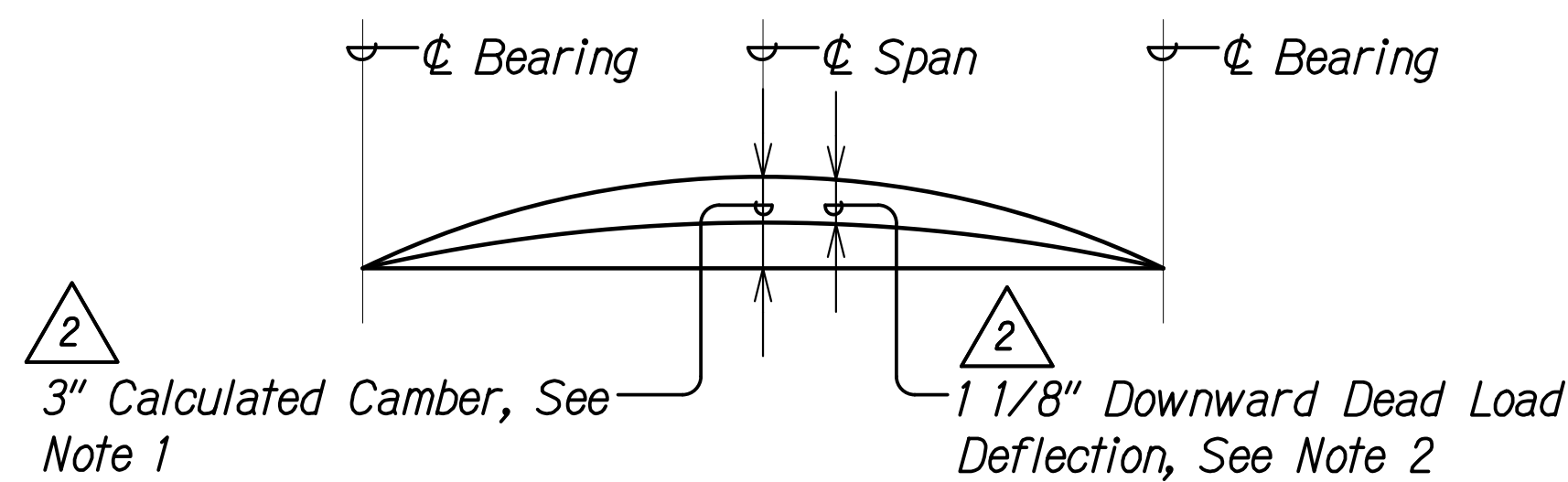
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 150	295



PLANK P-1 DETAIL PLAN AT PIER
Scale: 3/4" = 1'-0"
A
S4.4 S4.5



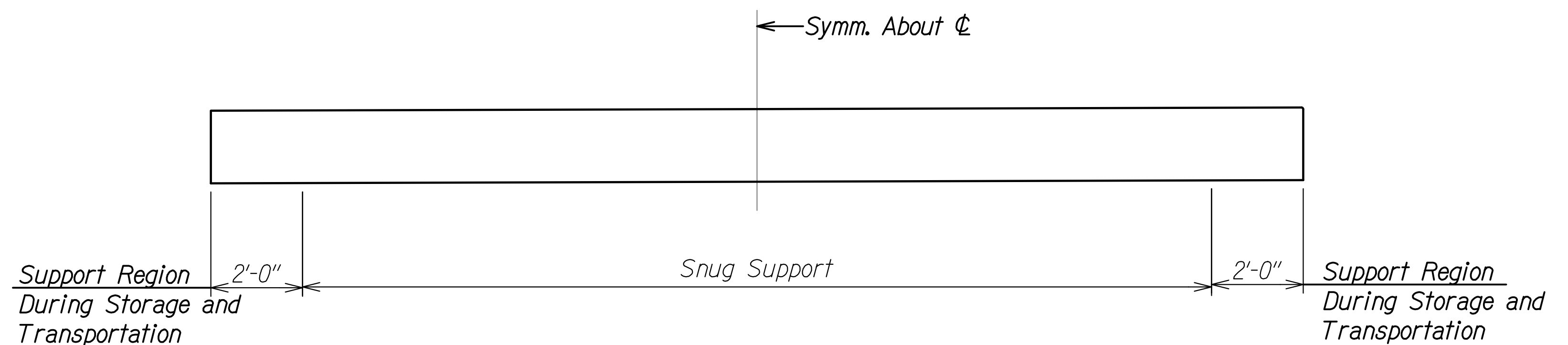
PLANK P-5 DETAIL PLAN AT PIER
Scale: 1/2" = 1'-0"
B
S4.4 S4.5



CAMBER AND DEFLECTION NOTES:

- 2 1. The calculated camber at 60-days includes the effect of the prestress force and the weight of the plank. Positive values shown for calculated camber indicate a net upward deflection. The calculated camber value has been multiplied by creep factors to approximate the effect of camber growth and concrete creep. The actual camber shall not exceed the calculated camber by more than 1/2". Otherwise, plank will be rejected.
2. Dead load deflection is due to weight of the topping.
3. All cambers and deflections are in inches.

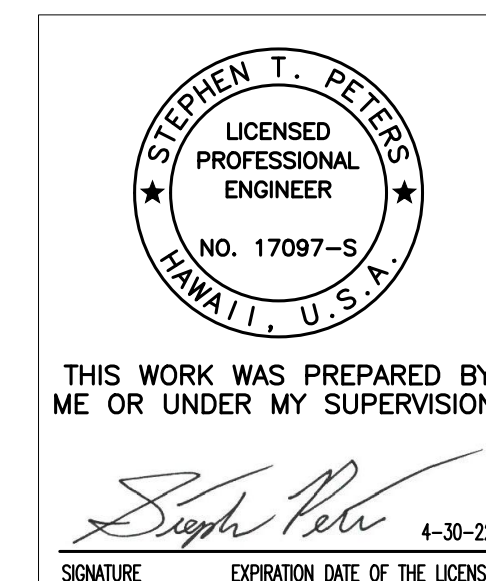
PLANK CAMBER AND
TOPPING DEFLECTION DIAGRAM
Not to Scale



SUPPORT AFTER PRETENSIONING
Not to Scale
C
S4.5 S4.5

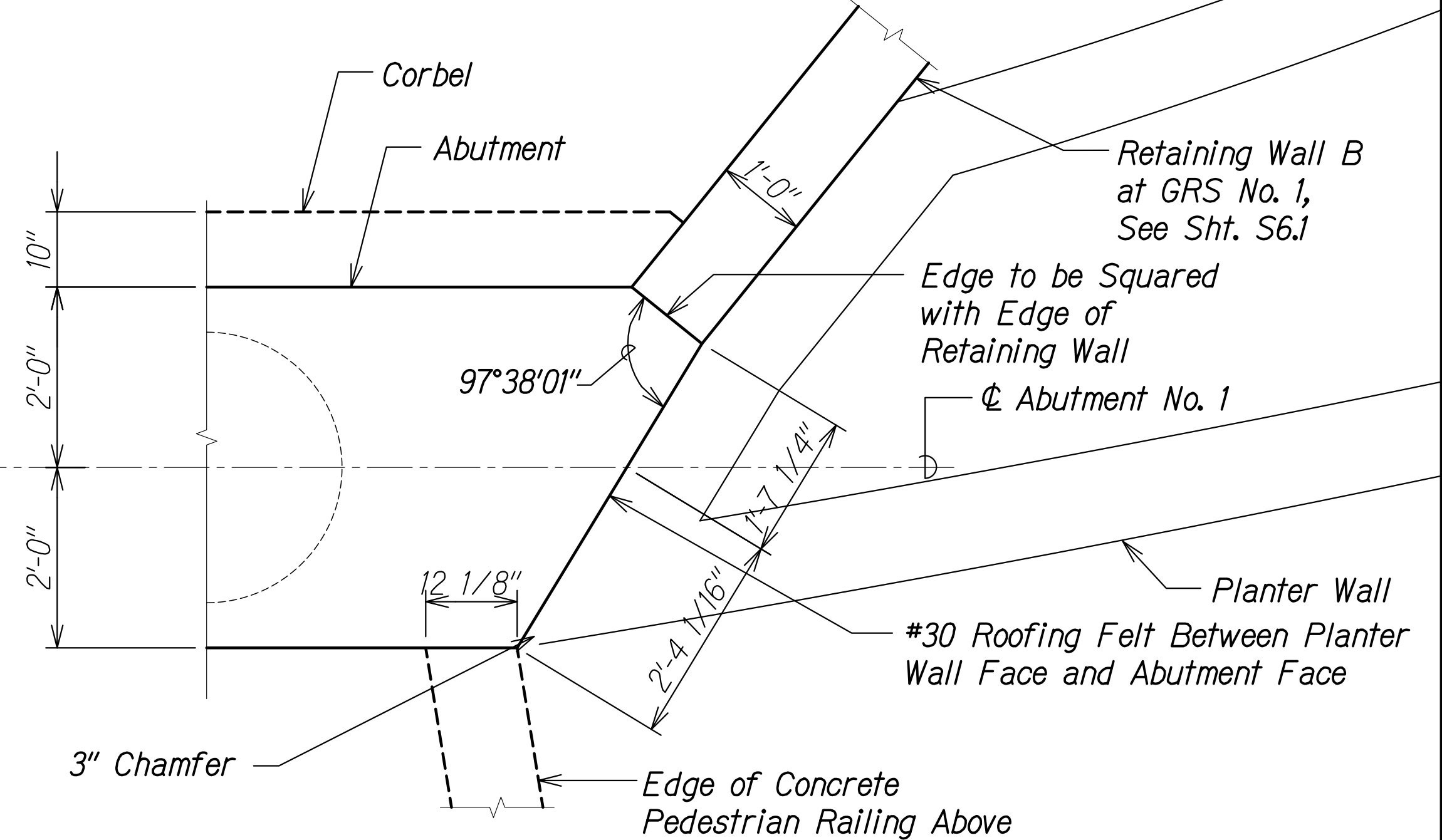
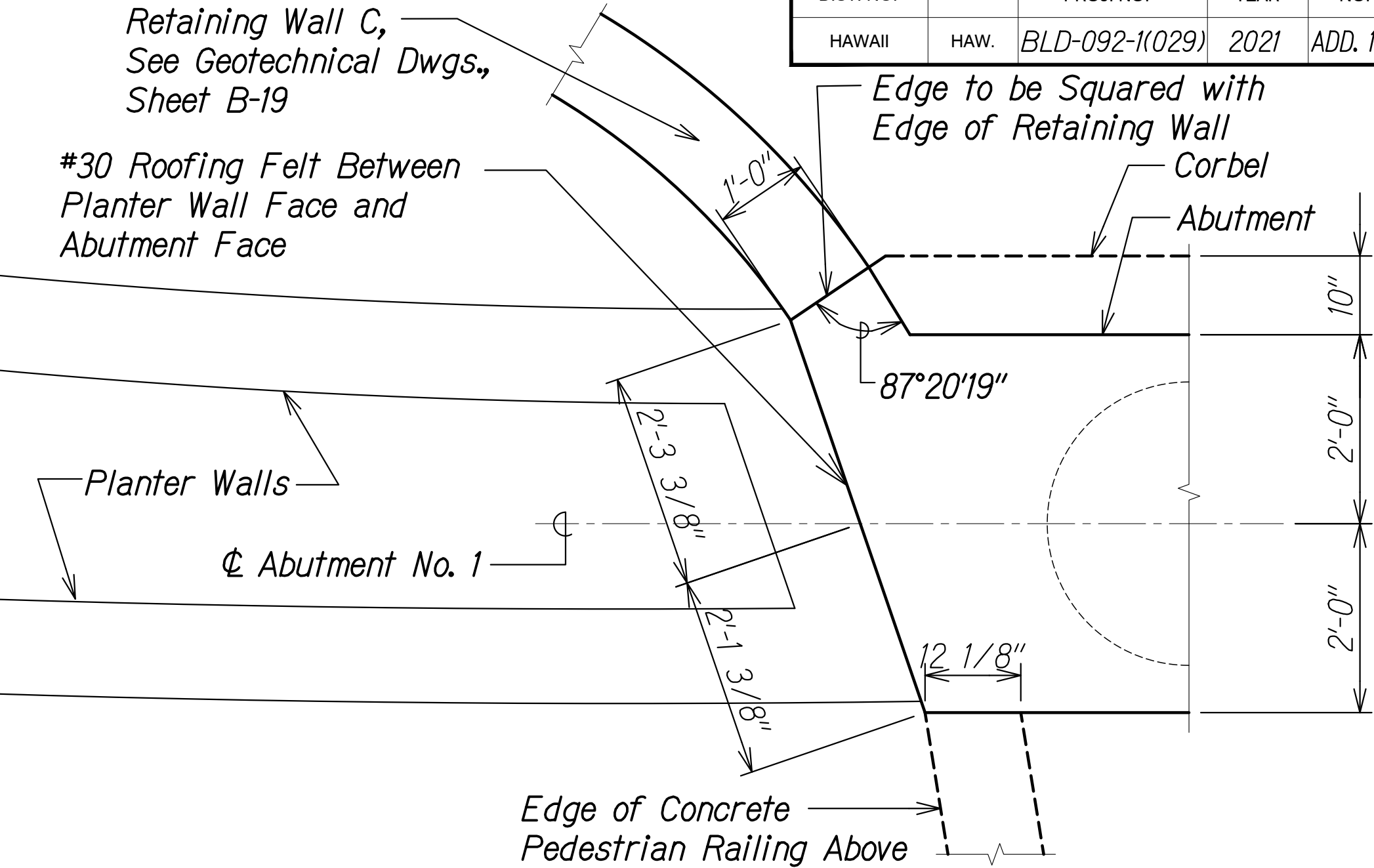
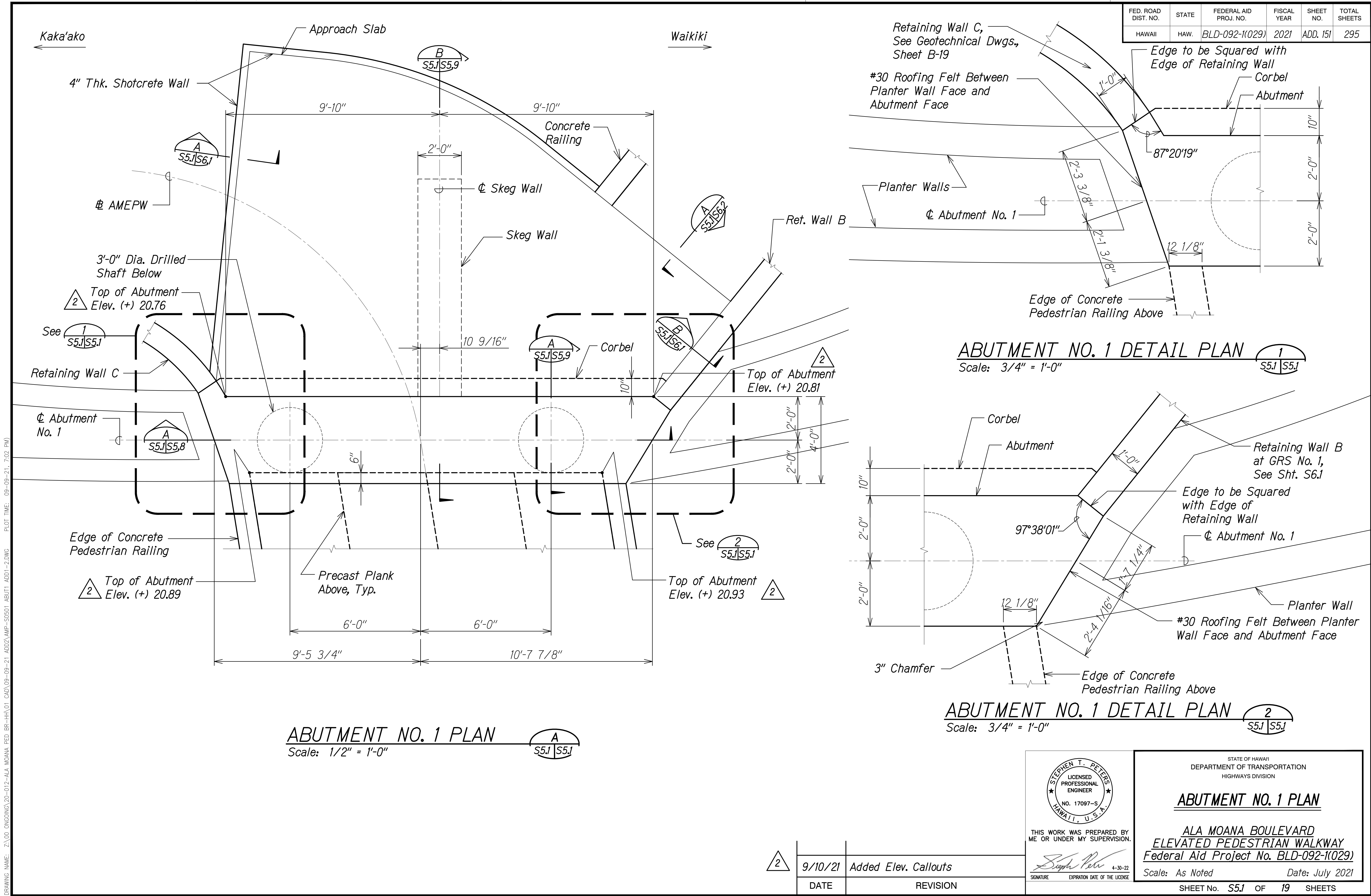
ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA FED BR-HA\01 CAD\09-09-21 ADDX\AMP-S0405 CAMBER ADD2.DWG PLOT TIME: 09-09-21 7:02 PM



2	9/10/21	Revised Camber Callouts and Notes
	DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION PLANK DETAILS, CAMBER DIAGRAM, AND SUPPORT SCHEME ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029) Scale: As Noted Date: July 2021		
SHEET No. S4.5 OF 5 SHEETS		

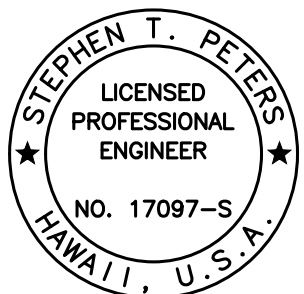
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 151	295



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

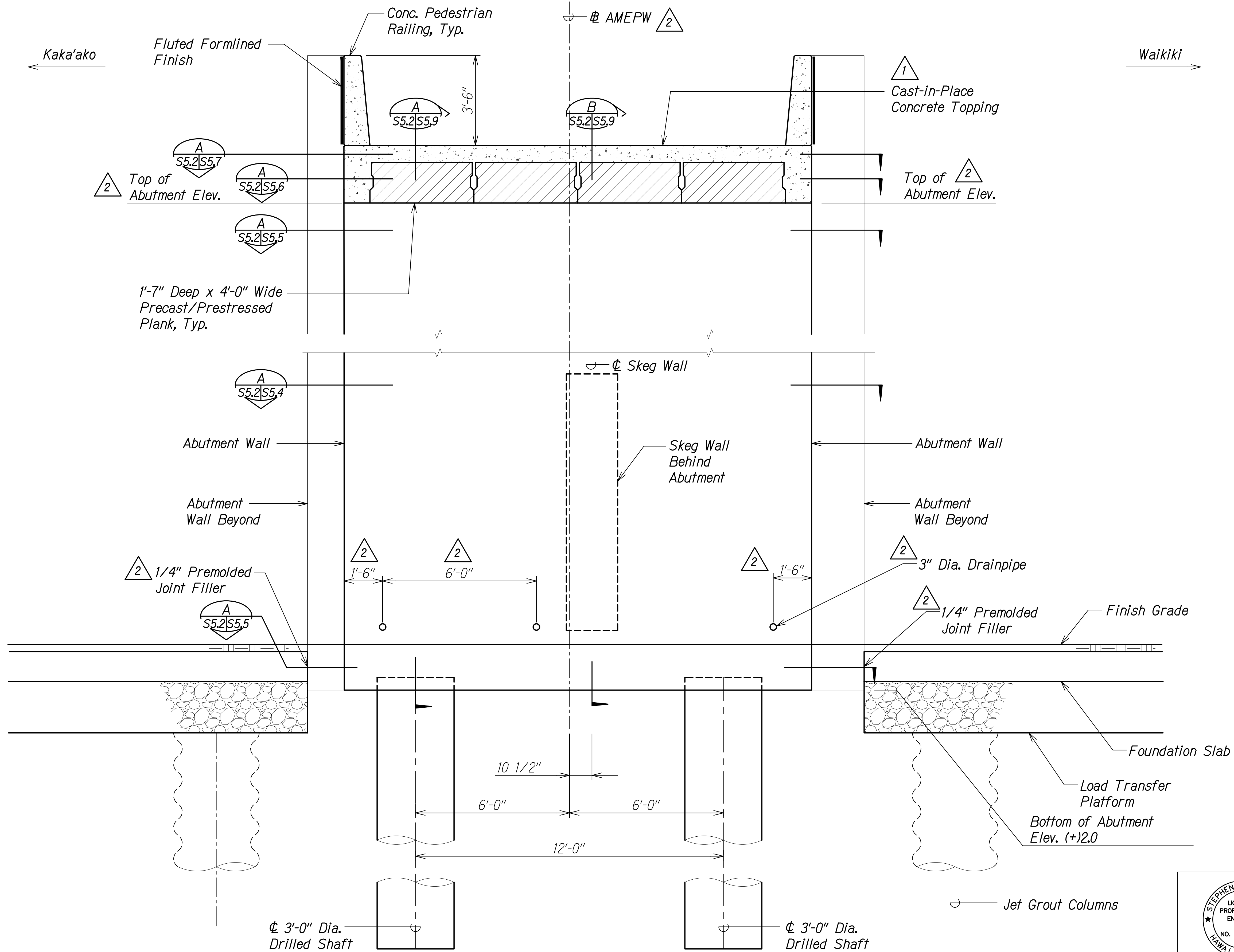
DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADDXAMP-S0501 ABUT1 ADD1-2.DWG PLOT TIME: 09-09-21, 7:02 PM

2	9/10/21	Added Elev. Callouts
	DATE	REVISION


 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 SIGNATURE: *Stephen Peters* 4-30-22
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ABUTMENT NO. 1 PLAN
 ALA MOANA BOULEVARD
 ELEVATED PEDESTRIAN WALKWAY
 Federal Aid Project No. BLD-092-1(029)
 Scale: As Noted Date: July 2021
 SHEET No. S5.1 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 152	295



ABUTMENT NO. 1 ELEVATION
Scale: 1/2" = 1'-0"

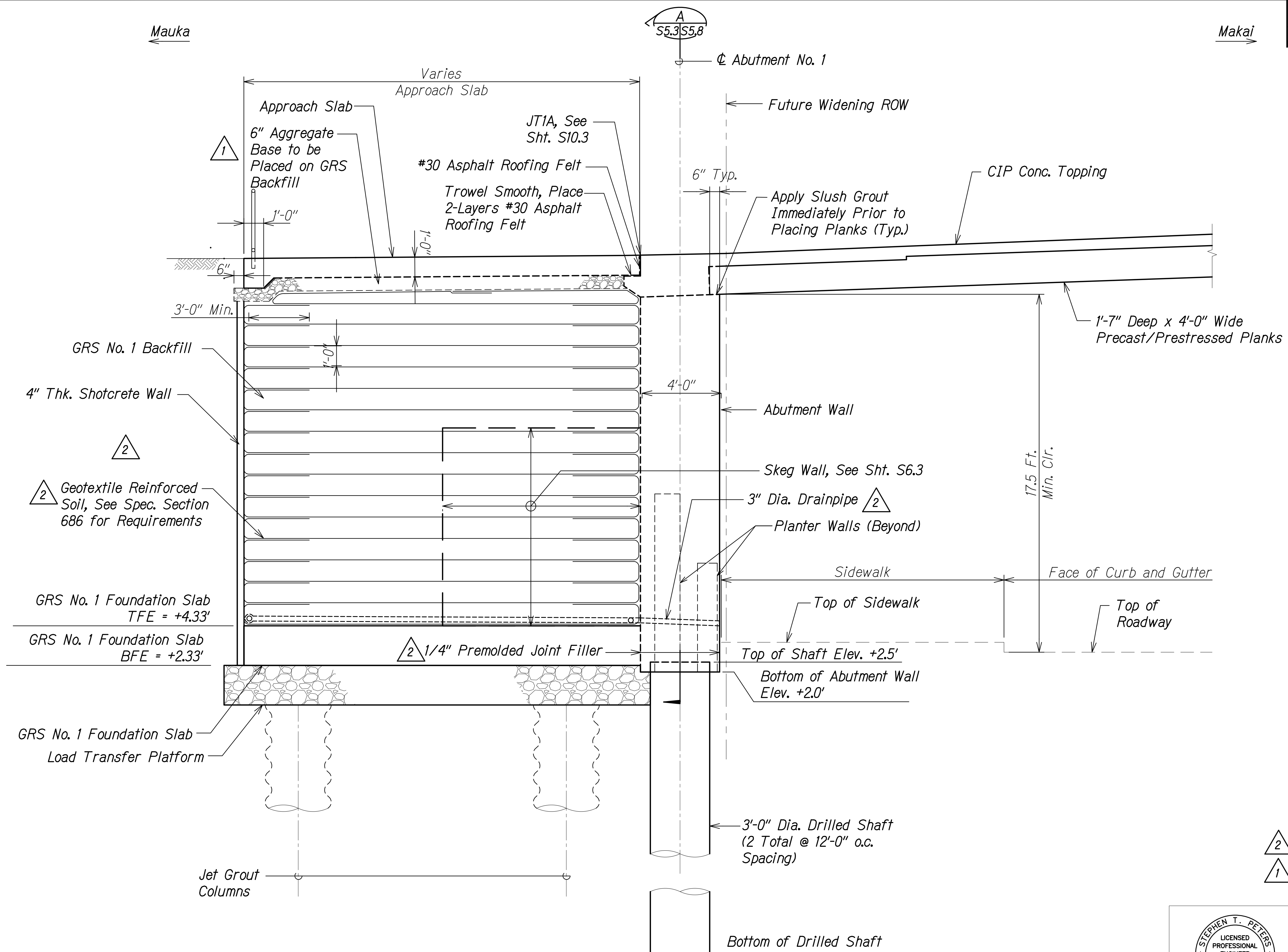
A
S5.2 S5.2

DATE	REVISION
9/10/21	Revised Callouts and Added Dimensions
8/30/21	Revised Note

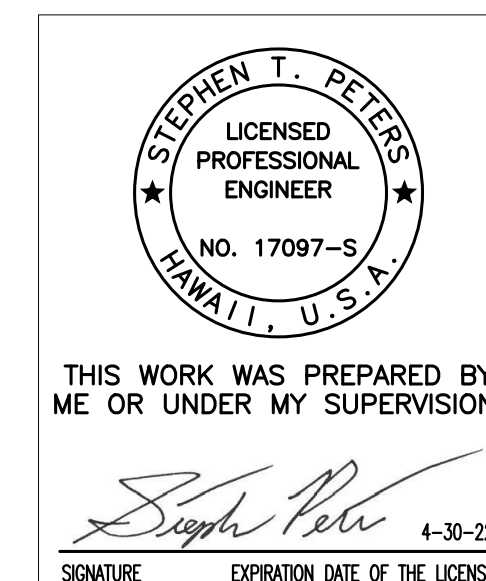
STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
SIGNATURE: *Stephen Peters*
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ABUTMENT NO. 1 ELEVATION
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)
Scale: As Noted Date: July 2021
SHEET No. S5.2 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 153	295



SECTION AT ABUTMENT NO. 1
Scale: 3/8" = 1'-0"



DATE	REVISION
9/10/21	Revised Callouts
8/30/21	Revised Note
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 1 SECTION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

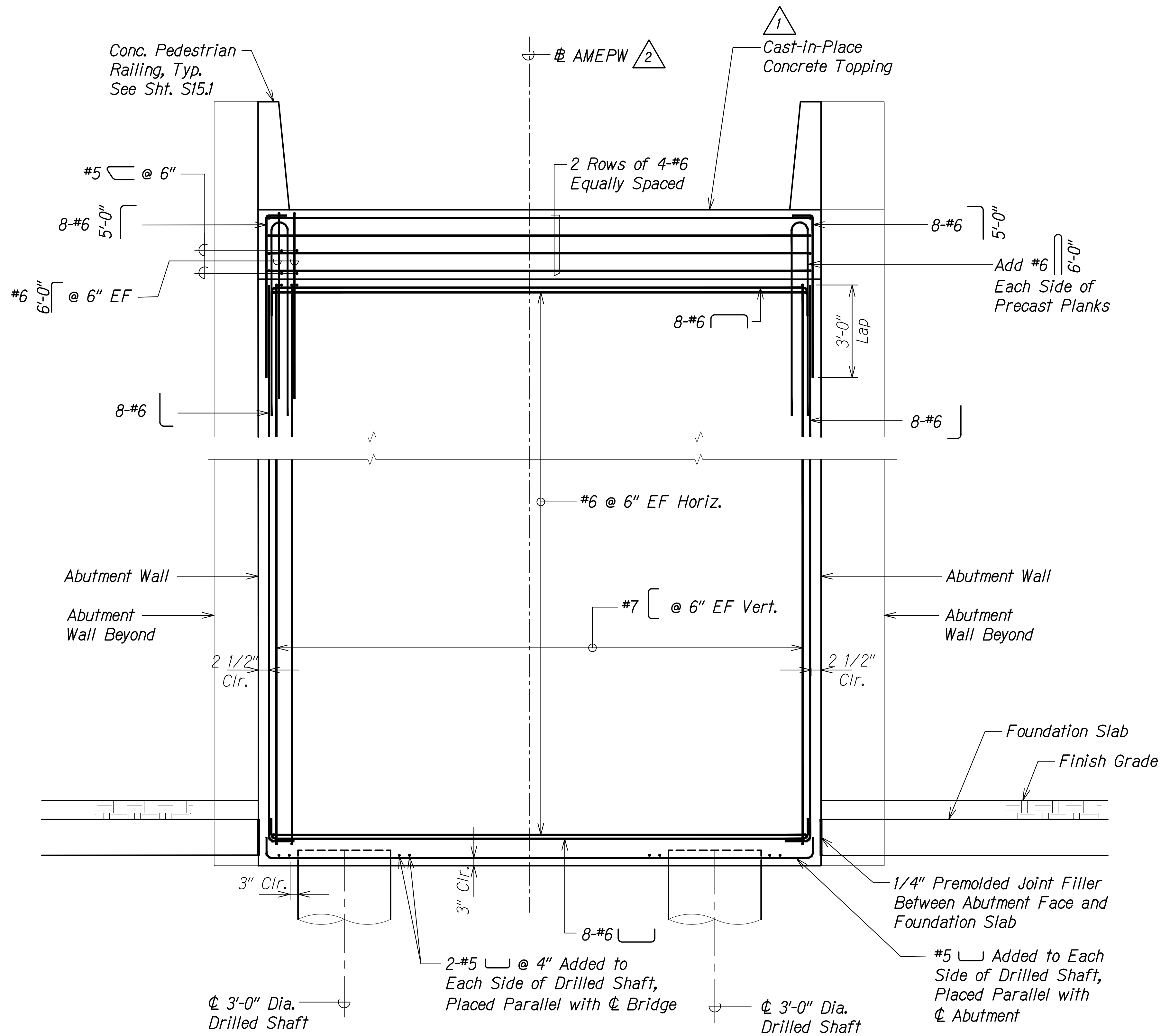
Scale: As Noted Date: July 2021

SHEET No. S5.3 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 158	295

Kaka'ako

Waikiki



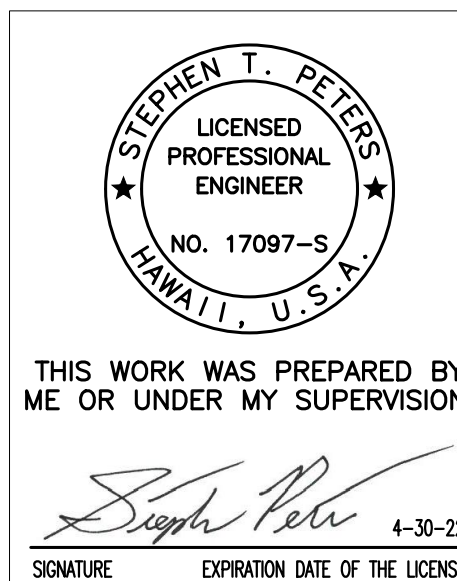
ABUTMENT NO. 1 REINFORCING ELEVATION

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

A
S5.1 S5.8
S5.3

2
1

DATE	REVISION
9/10/21	Revised Callout
8/30/21	Revised Note

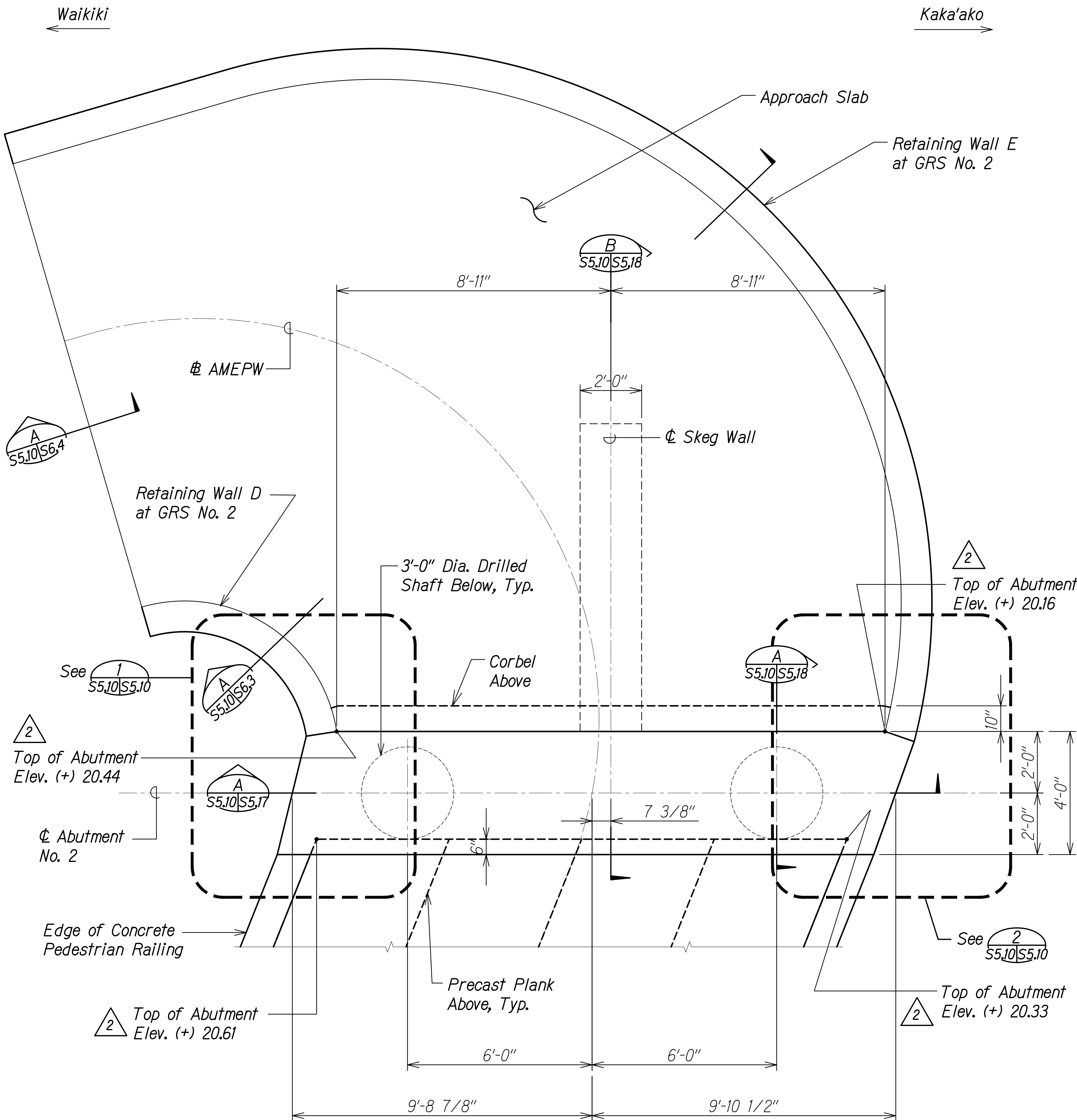


THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.
Stephen Peters
SIGNATURE EXPIRATION DATE OF THE LICENSE 4-30-22

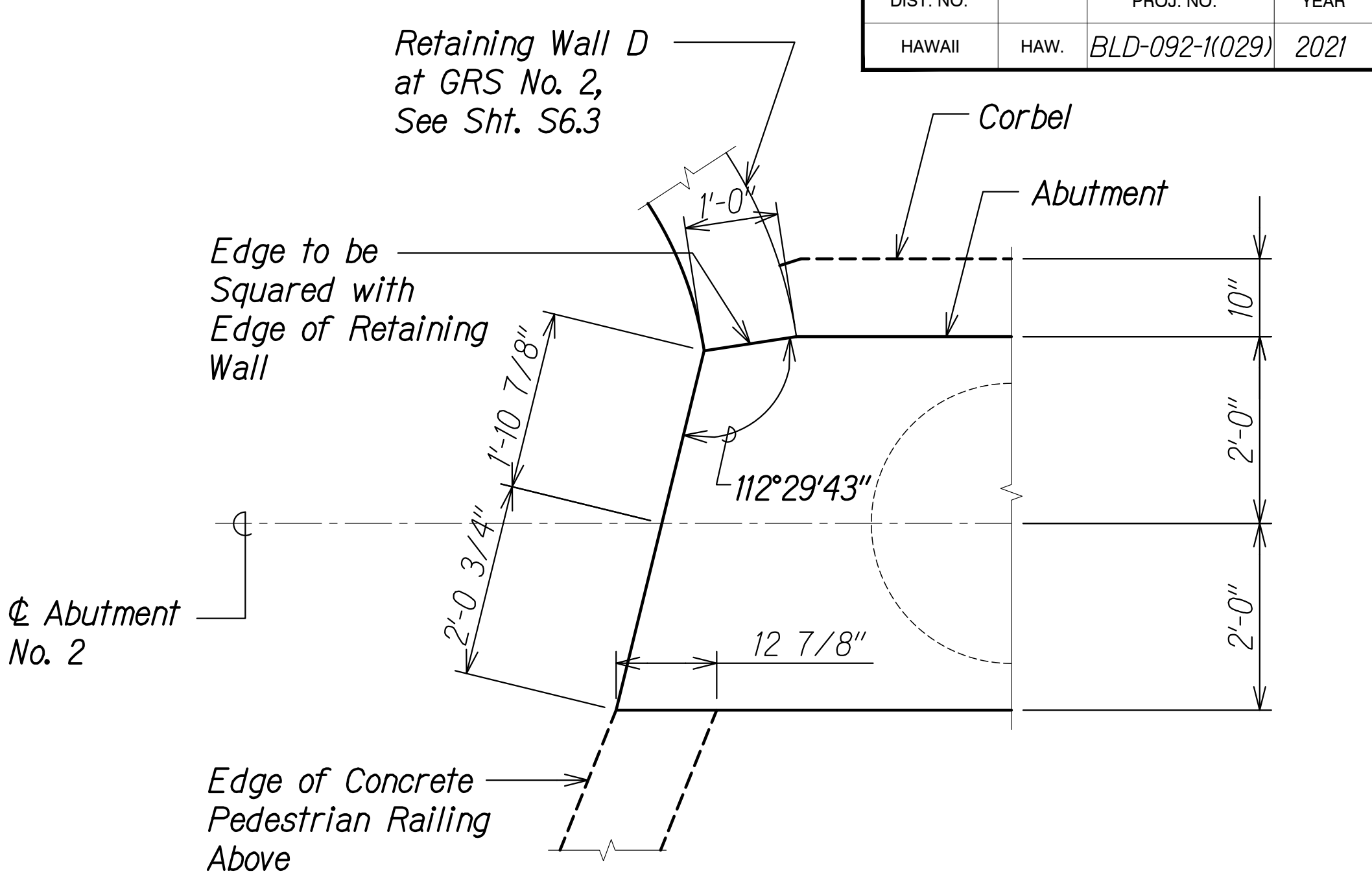
SHEET No. S5.8 OF 19 SHEETS

ADD. 158

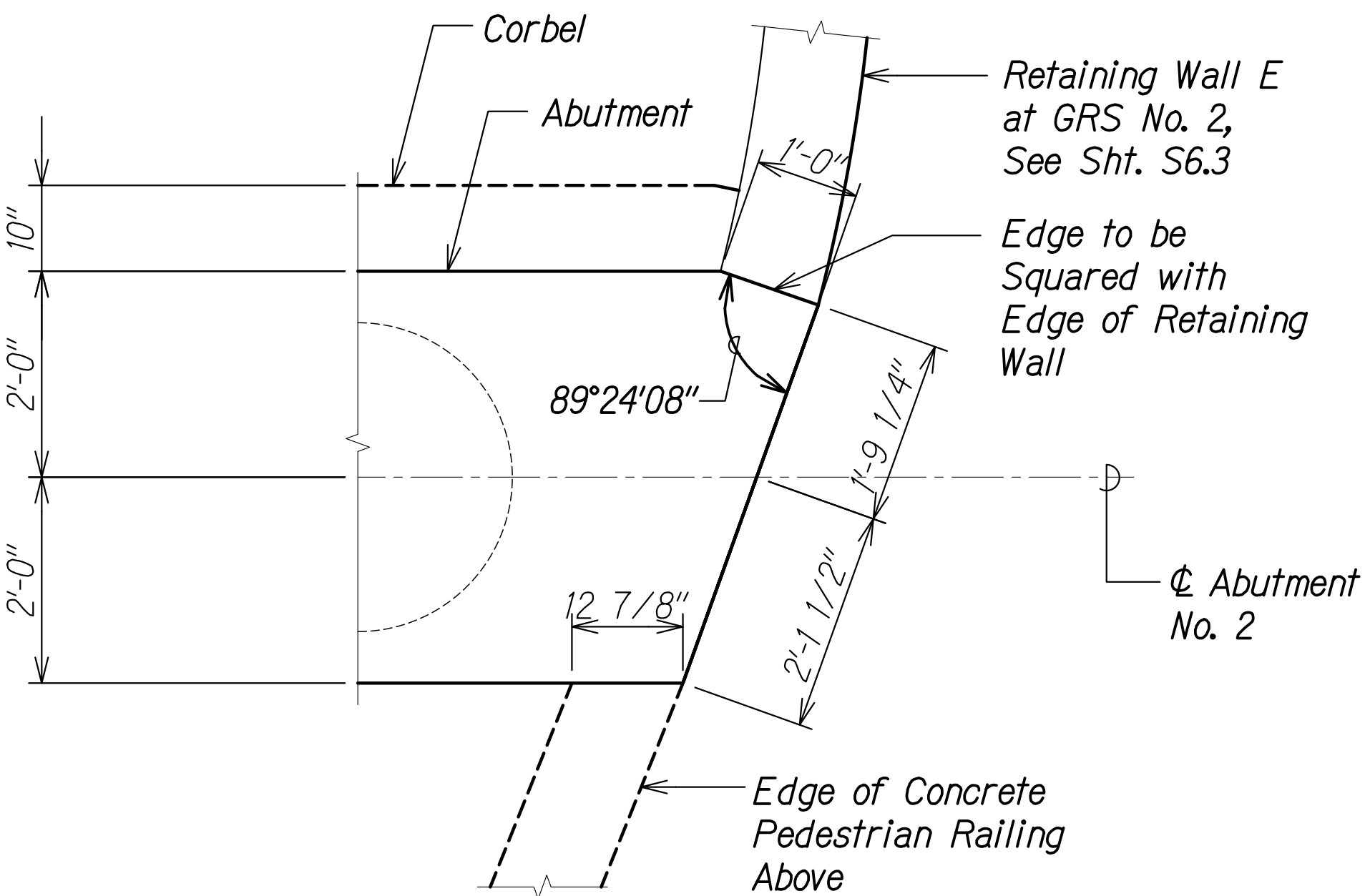
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 160	295



ABUTMENT NO. 2 PLAN
 Scale: 1/2" = 1'-0"



ABUTMENT NO. 2 DETAIL PLAN
 Scale: 3/4" = 1'-0"



ABUTMENT NO. 2 DETAIL PLAN
 Scale: 3/4" = 1'-0"

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Stephen T. Peters* 4-30-22
 SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ABUTMENT NO. 2 PLAN

ALA MOANA BOULEVARD
 ELEVATED PEDESTRIAN WALKWAY
 Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

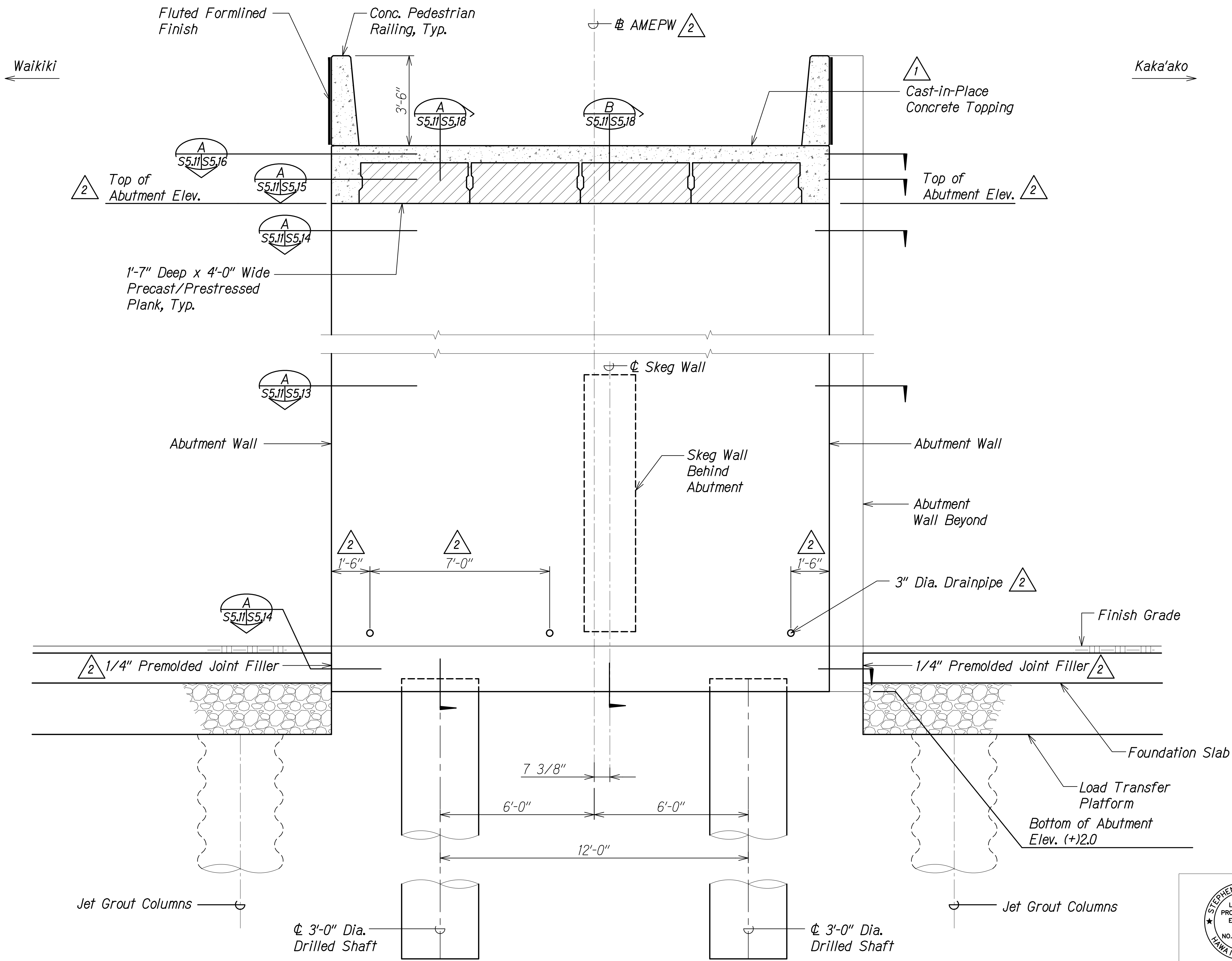
SHEET No. S5.10 OF 19 SHEETS

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

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADDXAMP-S0510 ABUT2 ADD1-2.DWG PLOT TIME: 09-09-21, 7:01 PM

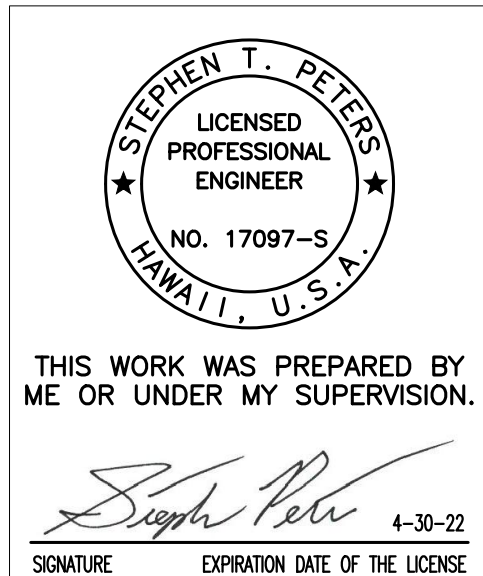
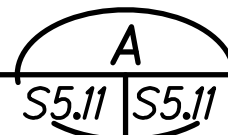
9/10/21	Added Elev. Callouts
DATE	REVISION

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 161	295



ABUTMENT NO. 2 ELEVATION

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



DATE	REVISION
9/10/21	Revised Callouts and Added Dimensions
8/30/21	Revised Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

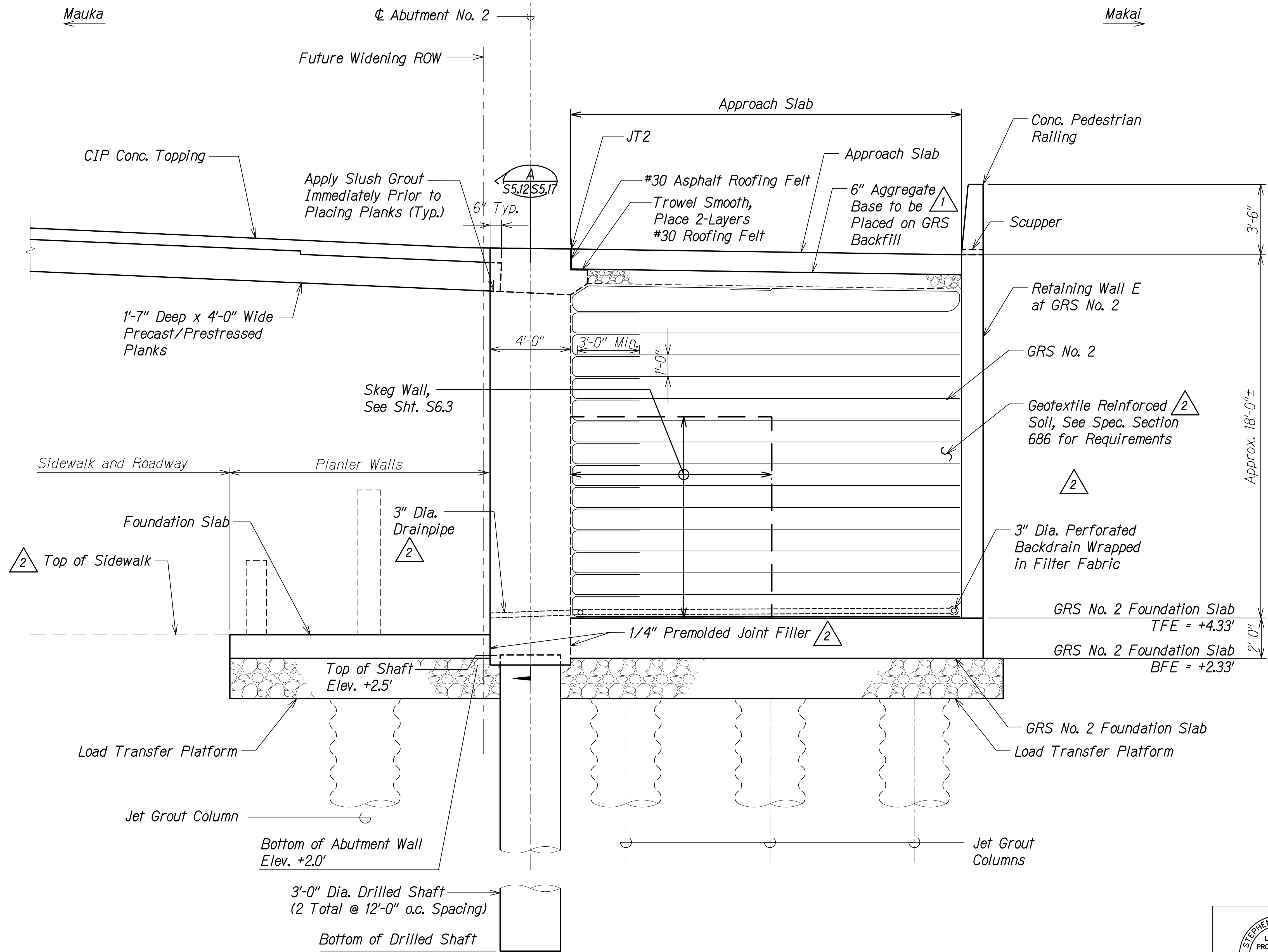
ABUTMENT NO. 2 ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

SHEET No. S5.11 OF 19 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 162	295



SECTION AT ABUTMENT NO. 2
Scale: 3/8" = 1'-0"

DATE	REVISION
9/10/21	Deleted and Revised Callouts
8/30/21	Revised Note

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Stephen Peters*
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABUTMENT NO. 2 SECTION

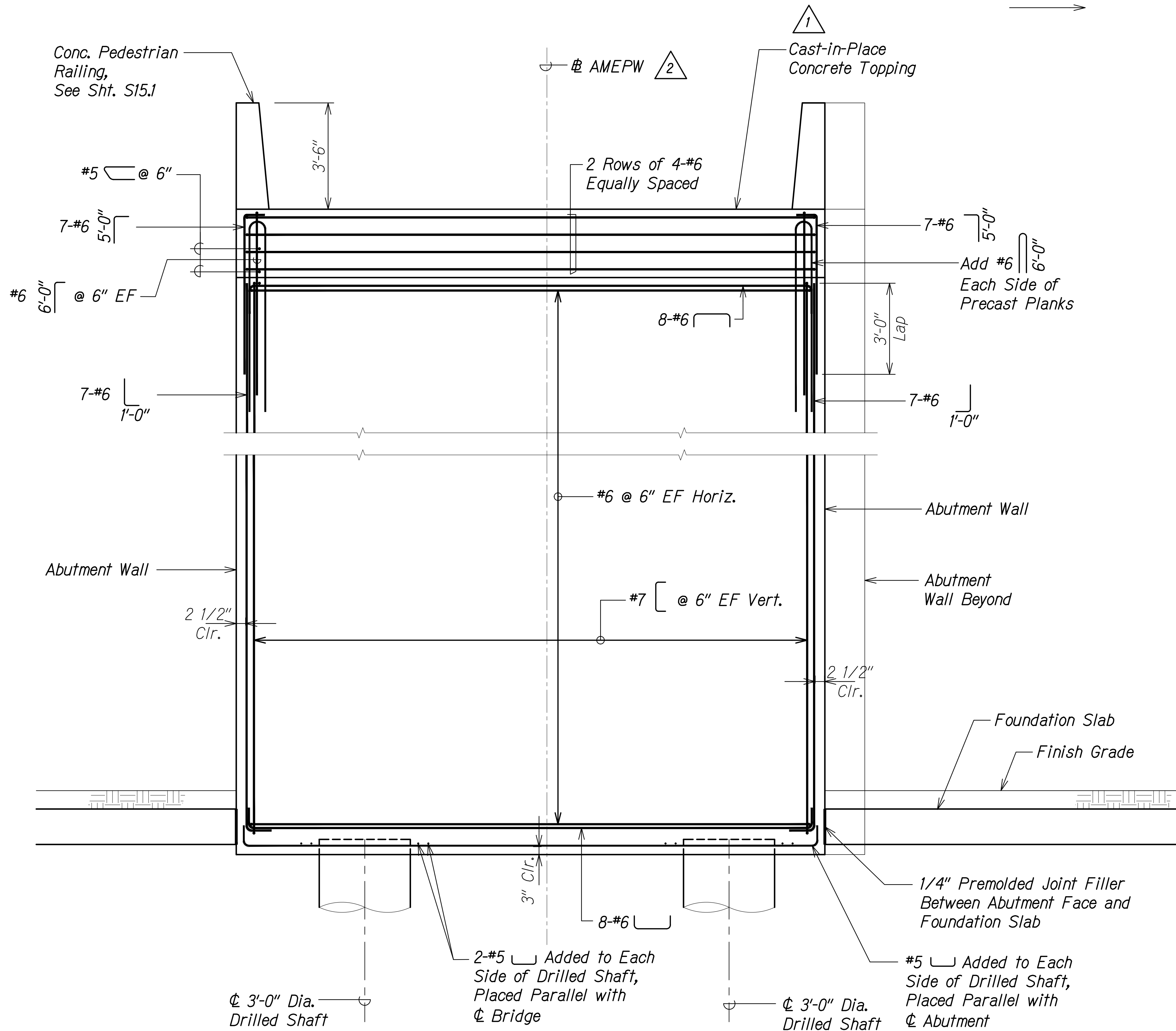
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 167	295

← Waikiki

Kaka'ako →



ABUTMENT NO. 2 REINFORCING ELEVATION

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

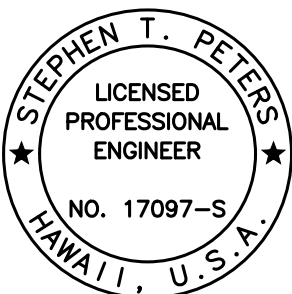
A
S5.10 S5.17
S5.12

2
1

9/10/21 Revised Callout

8/30/21 Revised Note

DATE REVISION



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: Stephen T. Peters
EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**ABUTMENT NO. 2
REINFORCING ELEVATION**
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

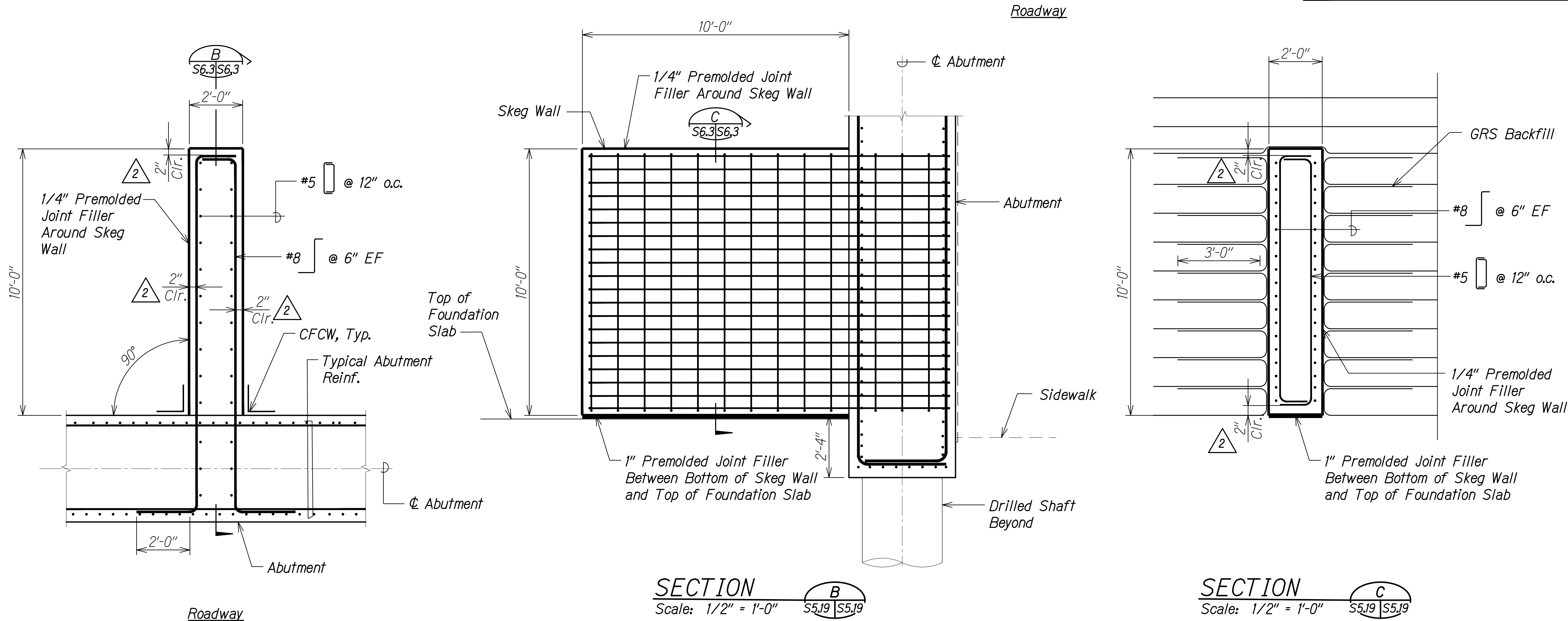
SHEET No. S5.17 OF 19 SHEETS

ADD. 167

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

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADDX AMP-S0513 ABUT2 ADD1-2.DWG PLOT TIME: 09-08-21, 7:03 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 169	295



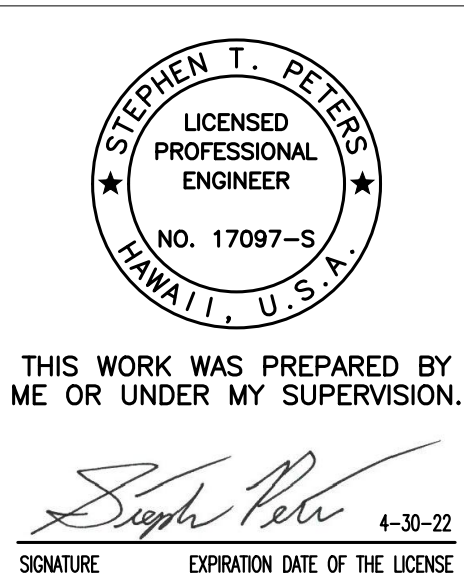
PLAN
Scale: 1/2" = 1'-0" A

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

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

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

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADDX\AMP-S0519 SKEG ADD2.DWG PLOT TIME: 09-08-21, 7:01 PM

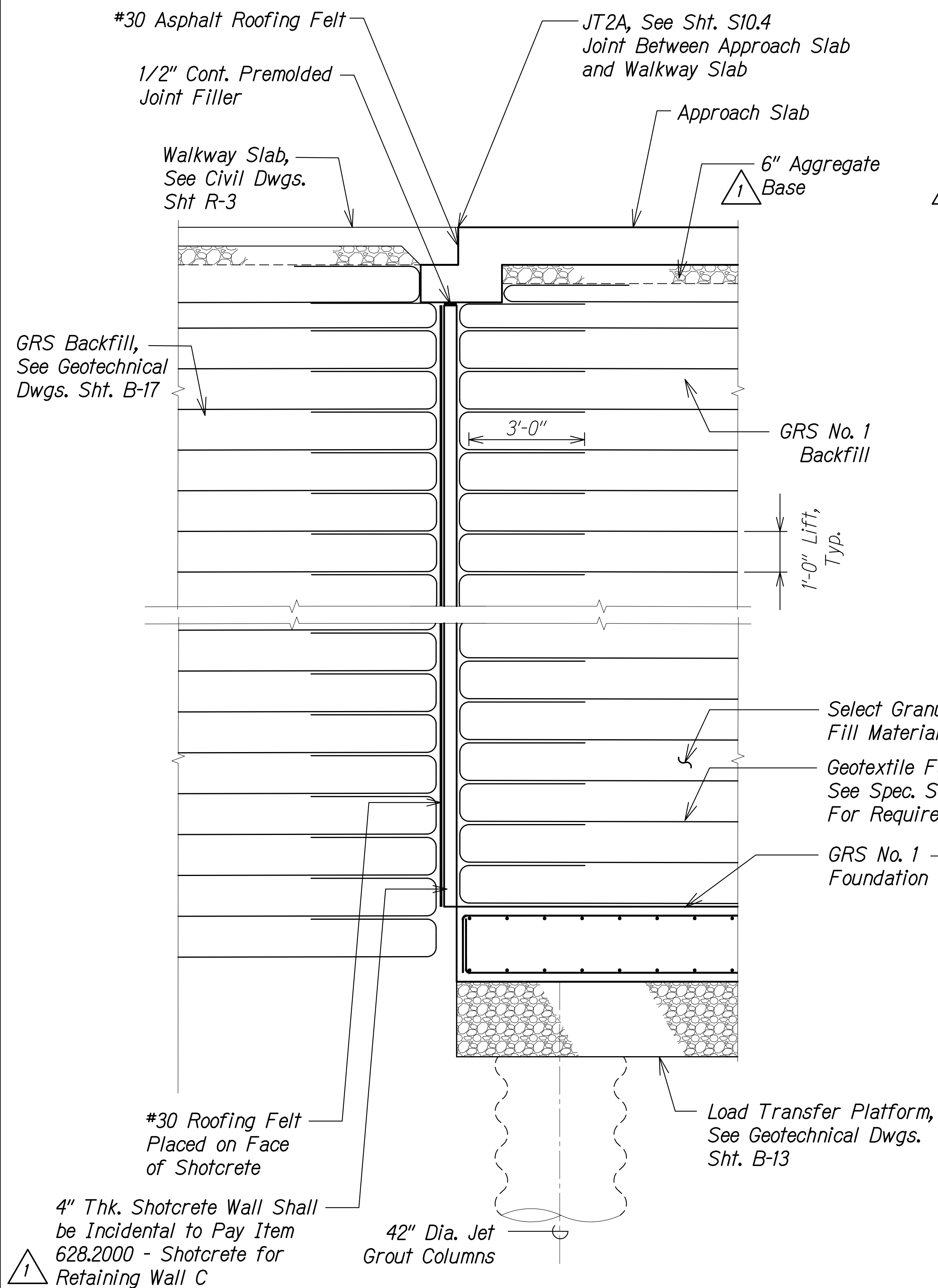


2	9/10/21	Added Dimensions
	DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SKEG WALL ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029) Scale: As Noted Date: July 2021		
SHEET No. S5.19 OF 19 SHEETS		

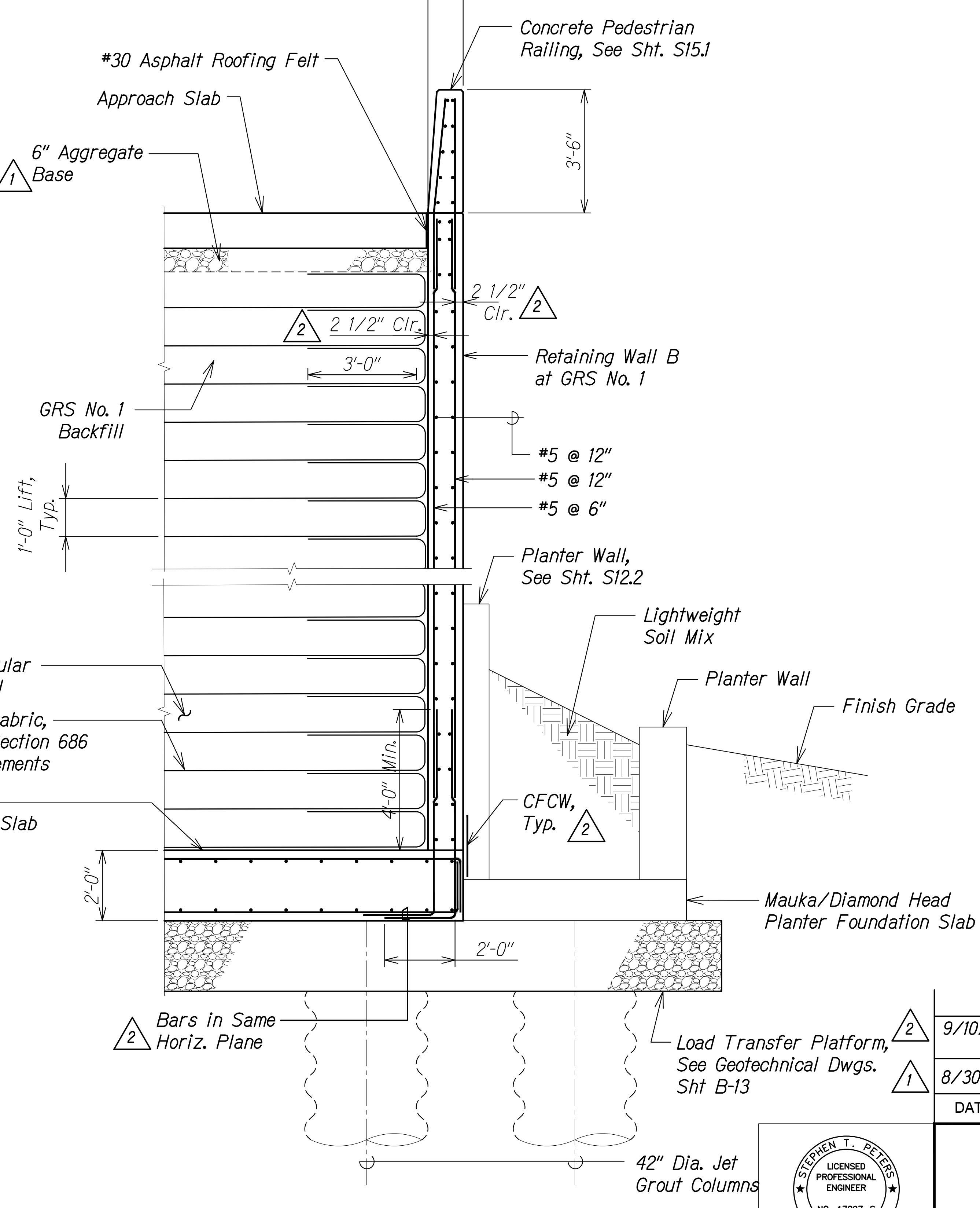
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 170	295

Kaka'ako

Waikiki



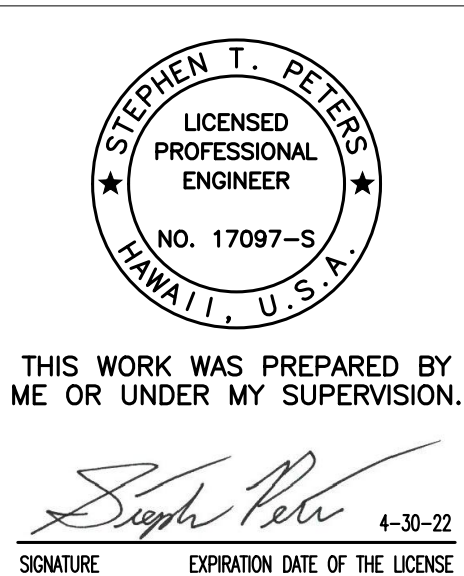
ABUTMENT NO. 1
GRS BACKFILL SECTION A
Scale: 1/2" = 1'-0"



ABUTMENT NO. 1
GRS BACKFILL SECTION B
Scale: 1/2" = 1'-0"

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

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADDX AMP-50601 GRS SECT ADD1-2.DWG PLOT TIME: 09-08-21, 7:00 PM



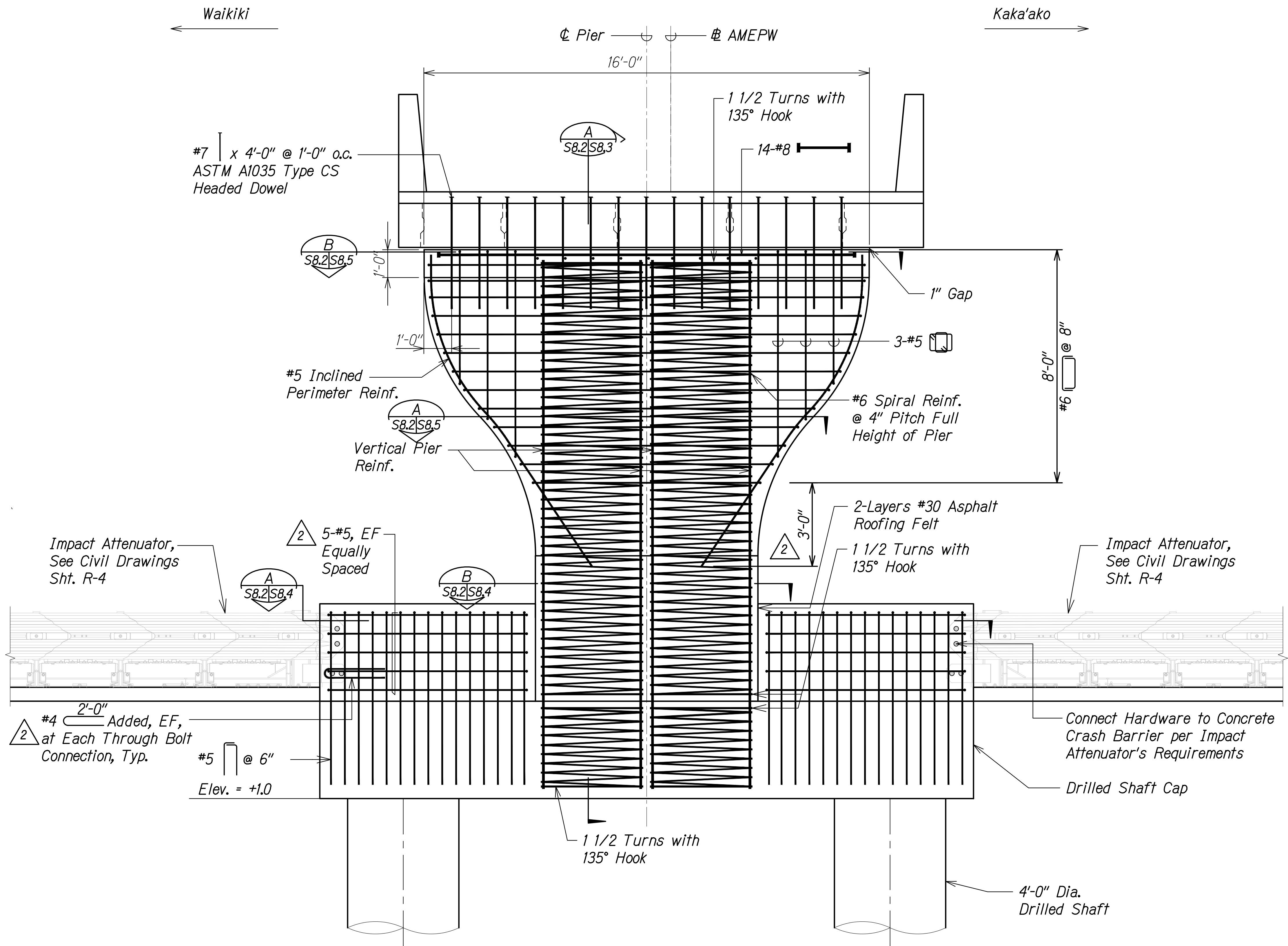
9/10/21	Revised Callouts and Added Dimensions
8/30/21	Revised and Added Notes
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>ABUTMENT NO. 1</u> <u>GRS SECTION</u>	
<u>ALA MOANA BOULEVARD</u> <u>ELEVATED PEDESTRIAN WALKWAY</u> <u>Federal Aid Project No. BLD-092-1(029)</u>	
Scale: As Noted	Date: July 2021

SHEET No. S6.1 OF 4 SHEETS

ADD. 170

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 177	295



PIER REINFORCING ELEVATION
Scale: 1/2" = 1'-0"

2	9/10/21	Revised Callout and Added Reinf., Dimension, Callouts
DATE	REVISION	

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Stephen Peters
SIGNATURE
EXPIRATION DATE OF THE LICENSE: 4-30-22

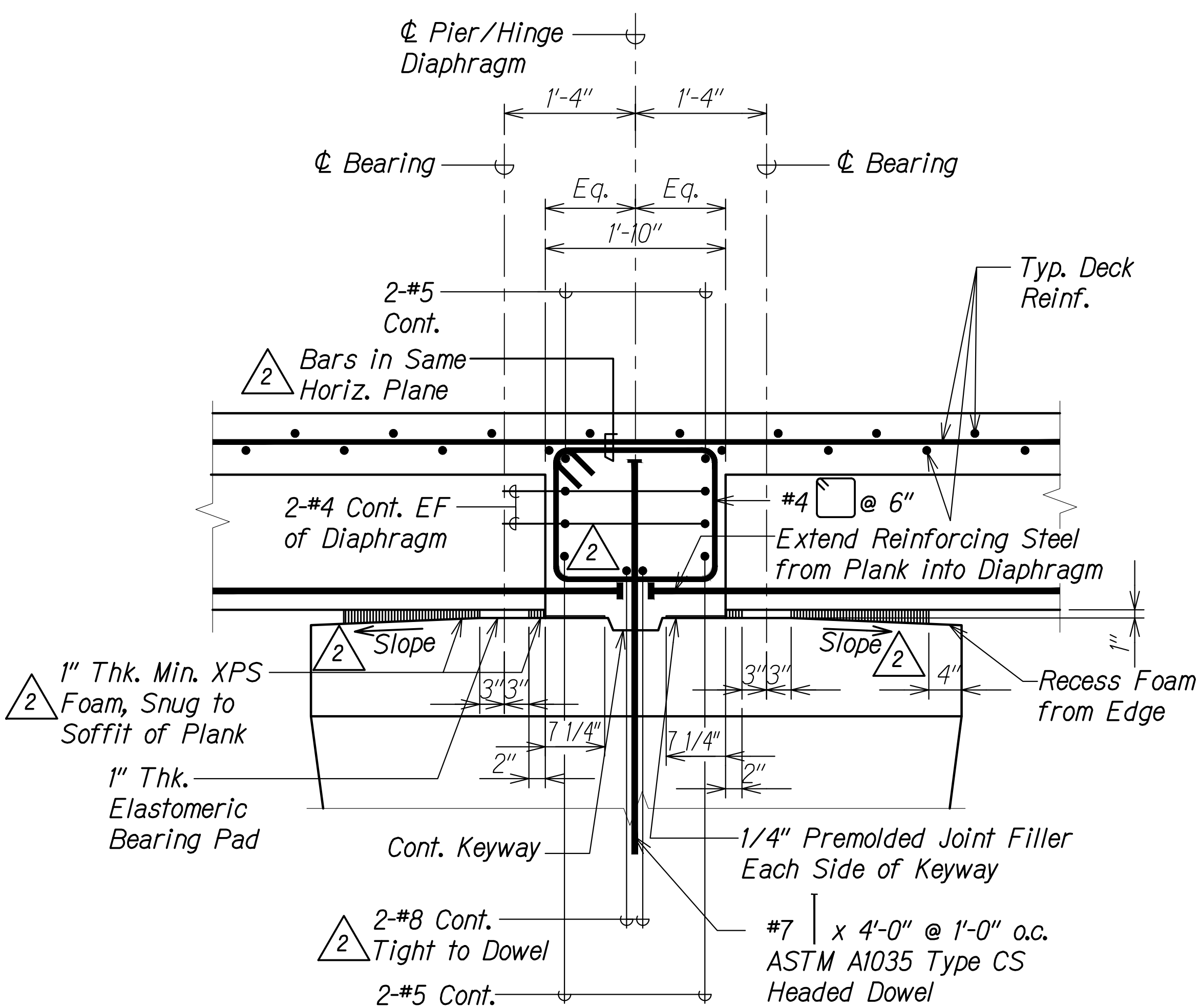
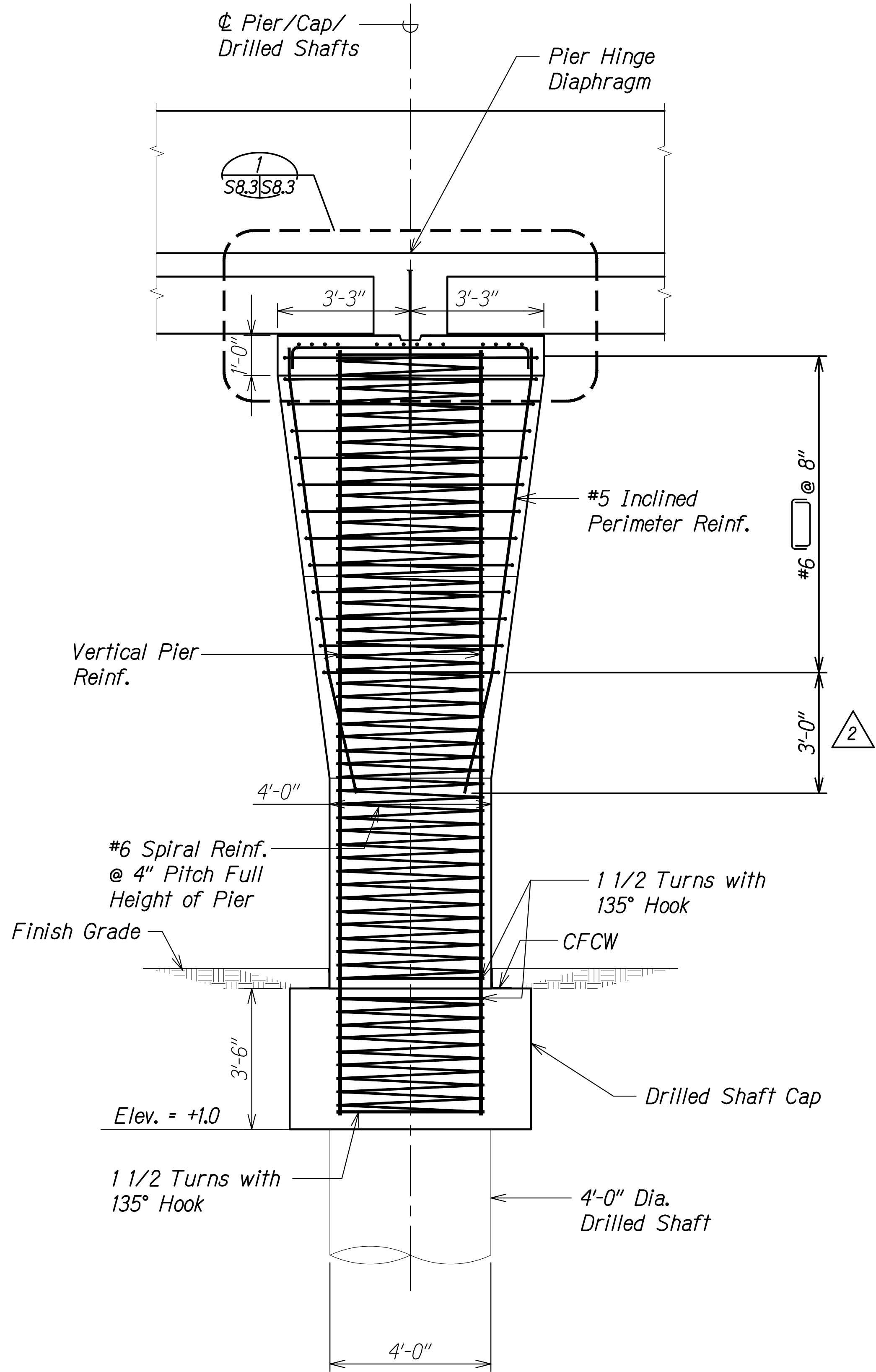
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER REINFORCING ELEVATION

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

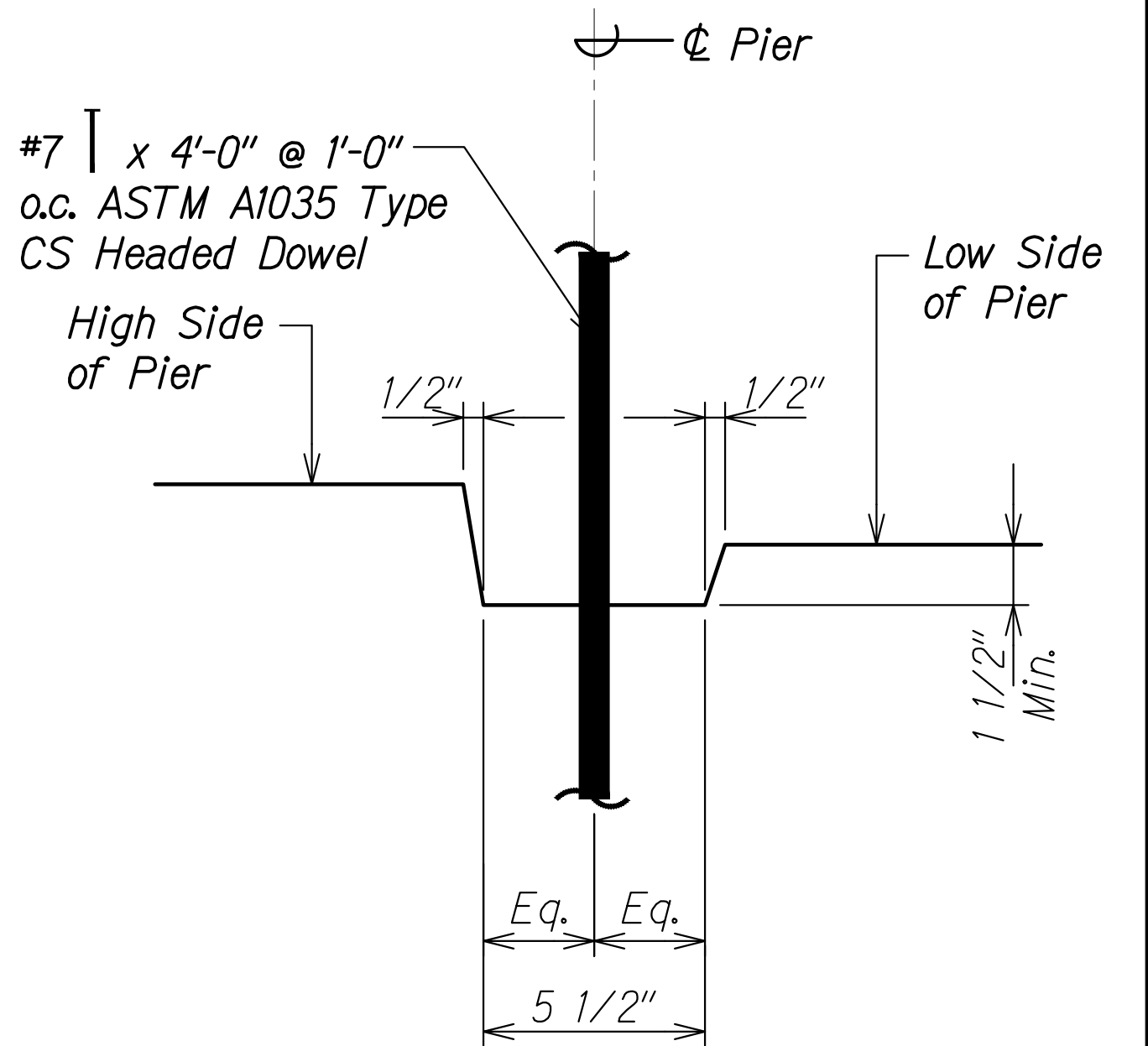
Scale: As Noted Date: July 2021

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 178	295



Notes:

- Elastomeric Bearing Pad and XPS Foam will not be paid for separately and will be considered incidental to concrete pier work.
- Finish grade elevations at top of concrete pier that produce a grade differential shall transition either side of keyway.



DATE	REVISION
9/10/21	Revised Callouts, Notes and Slope; Added Dimension and Detail
DATE	REVISION

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Stephen T. Peters*

EXPIRATION DATE OF THE LICENSE: 4-30-22

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

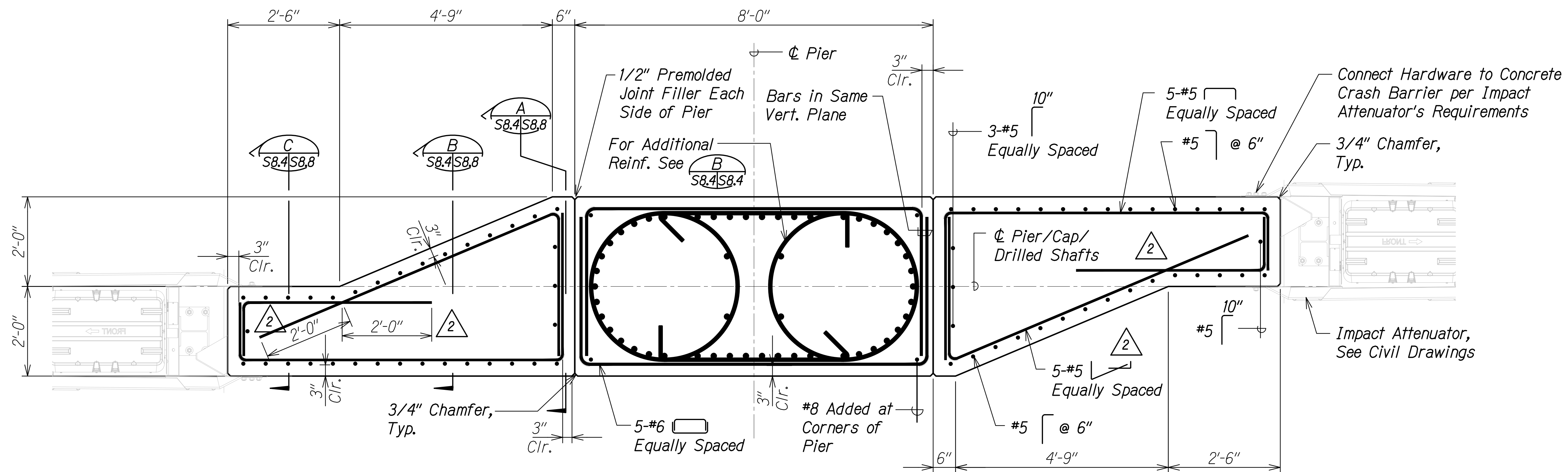
PIER SECTION AND DETAIL

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

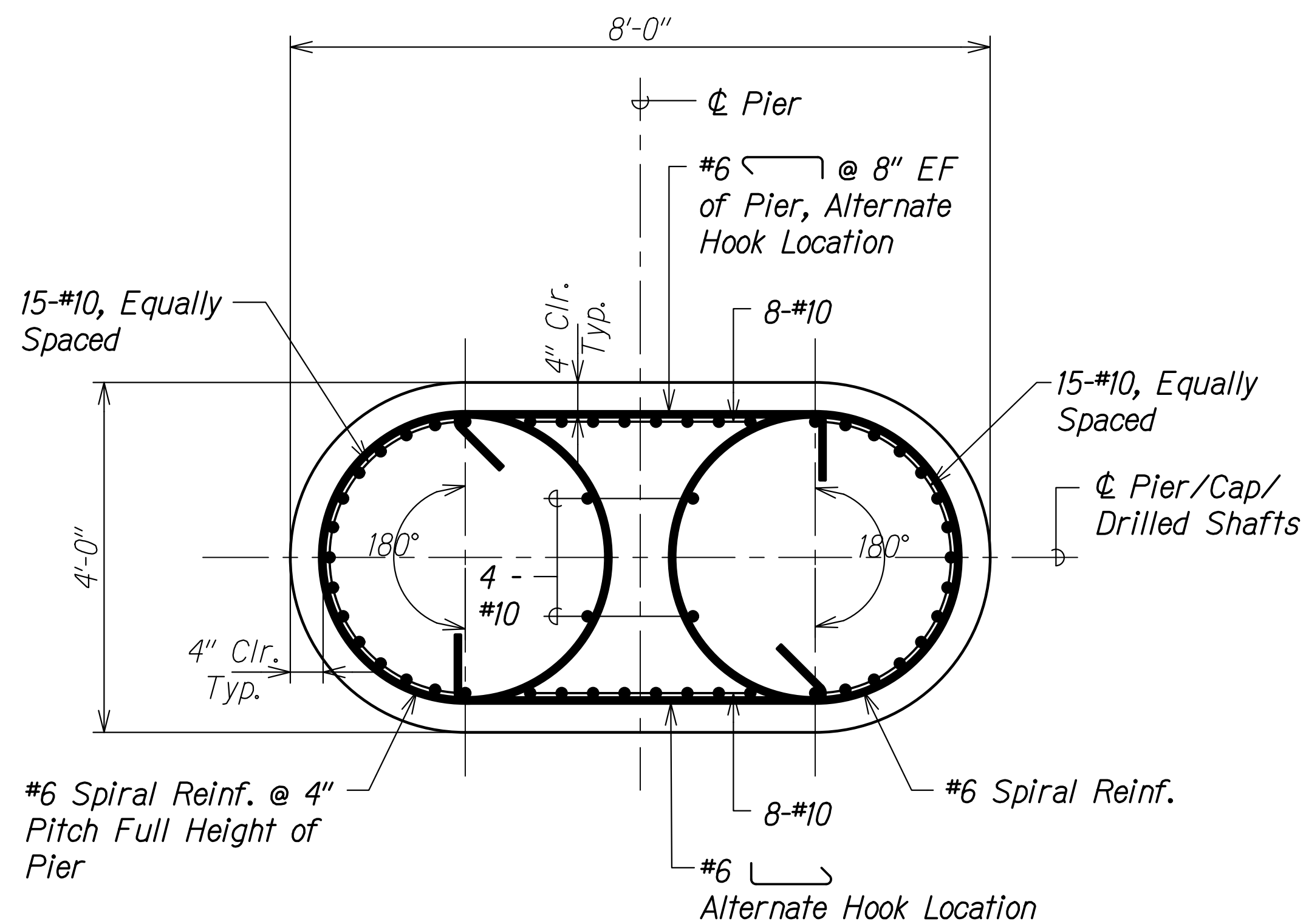
Scale: As Noted Date: July 2021

SHEET No. S8.3 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 179	295



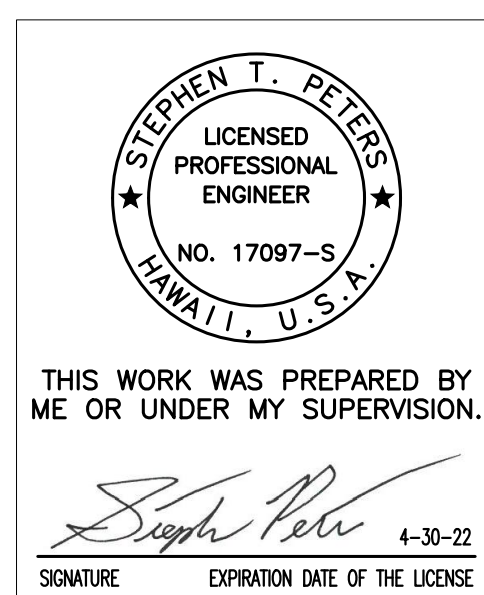
SECTION A
Scale: 3/4" = 1'-0" S8.2 S8.4



SECTION B
Scale: 3/4" = 1'-0" S8.2 S8.4
S8.4, S8.5

2

DATE	REVISION
9/10/21	Revised Reinf.



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PIER SECTIONS	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: As Noted	Date: July 2021

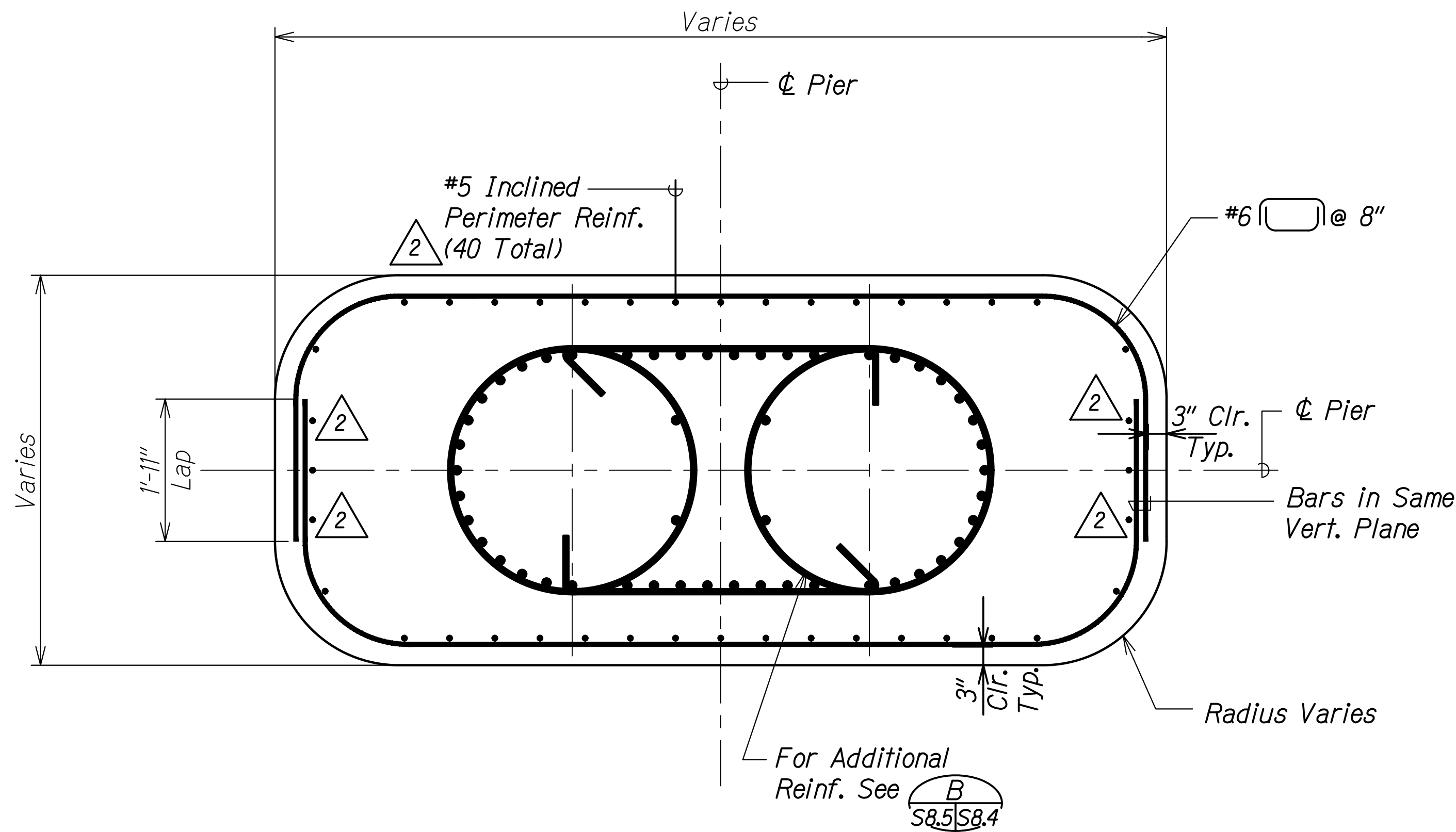
SHEET No. S8.4 OF 8 SHEETS

ADD. 179

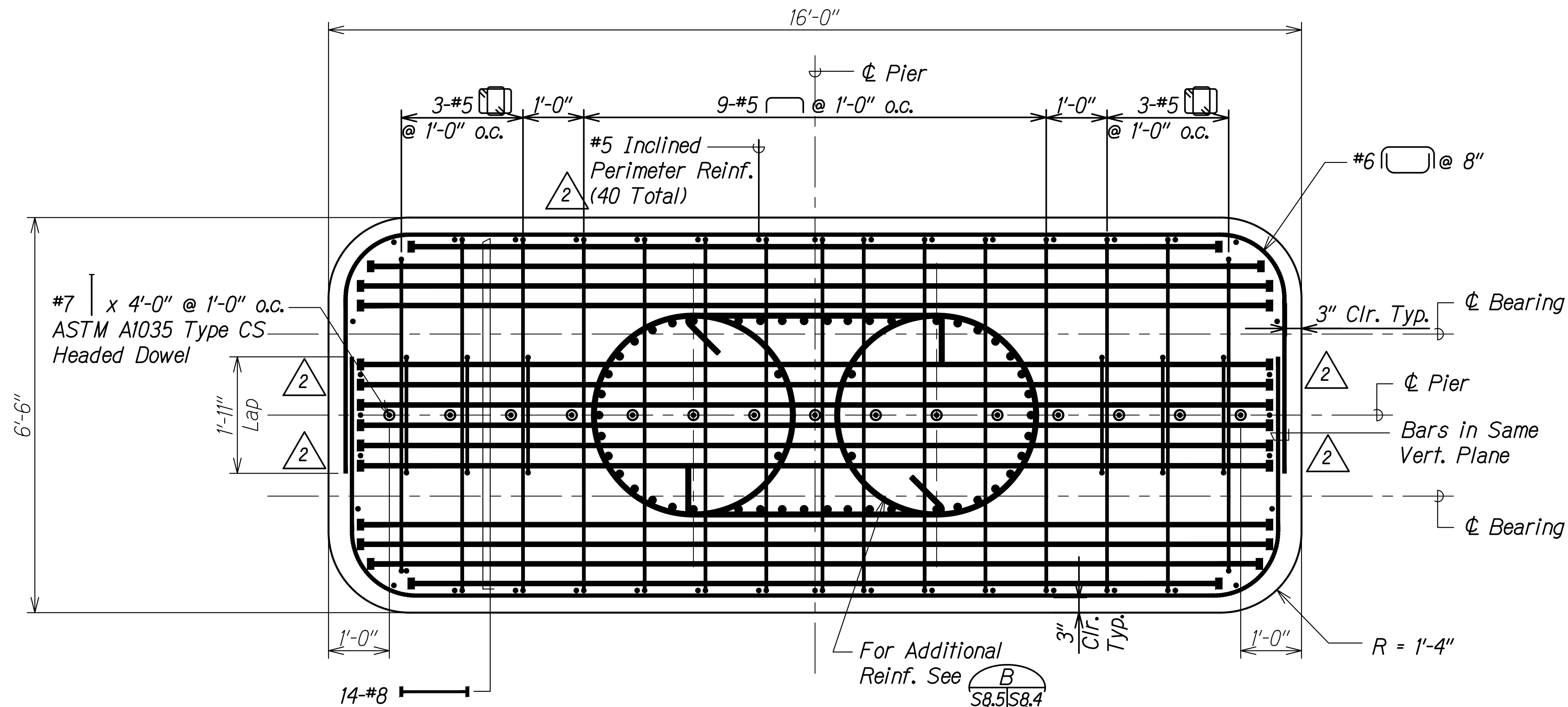
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADDX\AMP-S0804 PIER ADD2.DWG PLOT TIME: 09-08-21 6:59 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 180	295



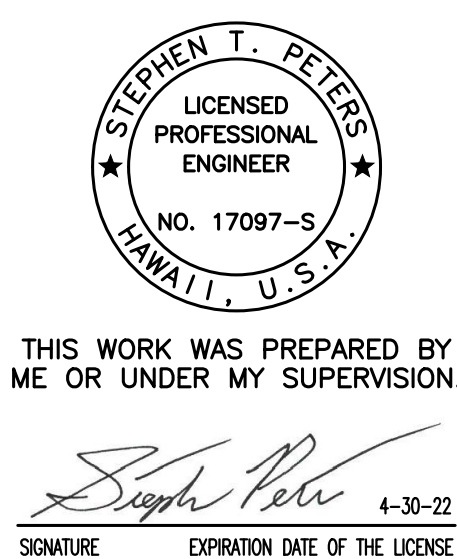
SECTION A
Scale: 3/4" = 1'-0"



SECTION B
Scale: 3/4" = 1'-0"

2

DATE	REVISION
9/10/21	Added Reinf. & Revised Callouts

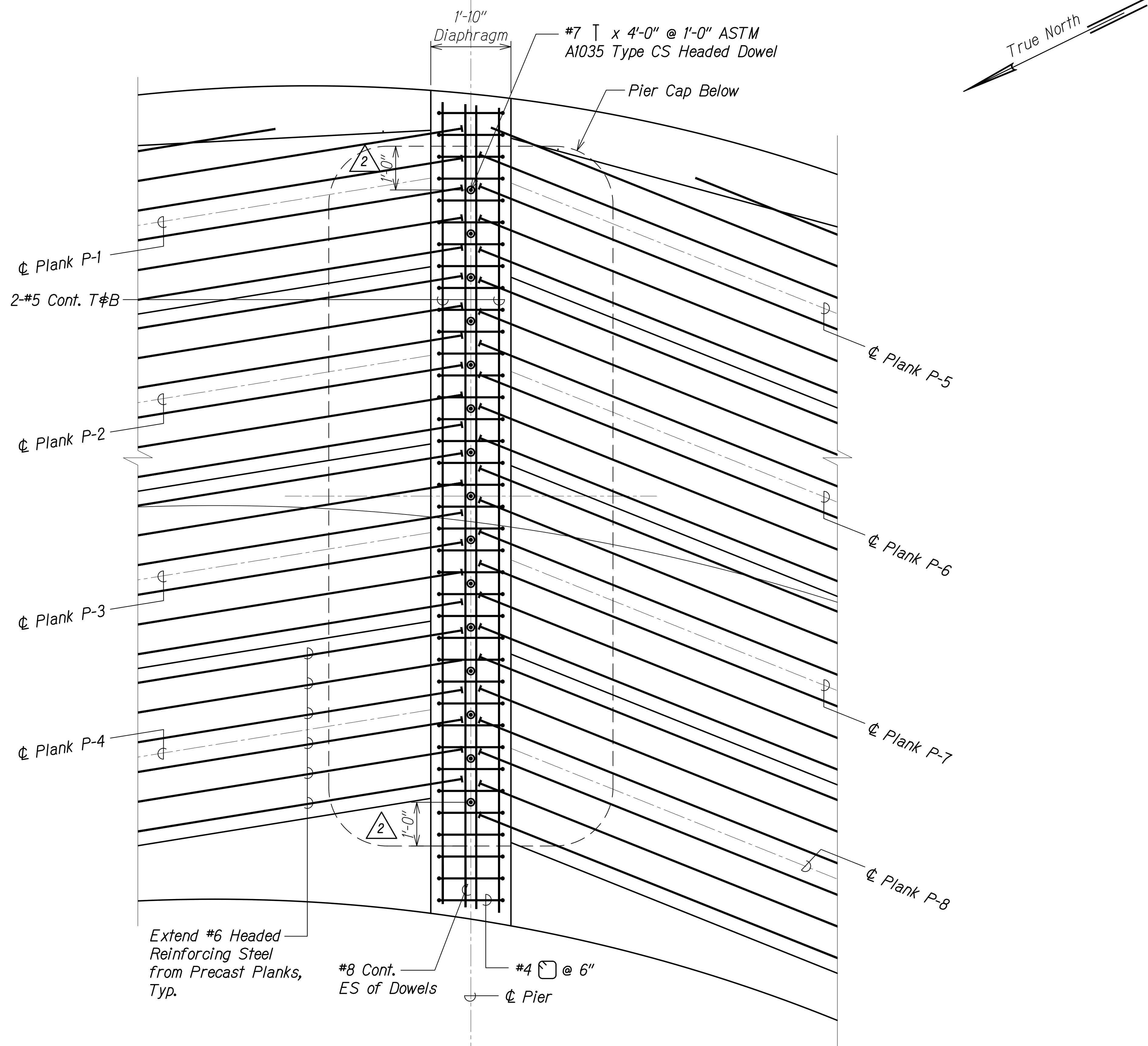


STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PIER SECTIONS	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: As Noted	Date: July 2021

SHEET No. S8.5 OF 8 SHEETS

ADD. 180

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 181	295



HINGE DIAPHRAGM PLAN
Scale: 3/4" = 1'-0"
A
S8.6 | S8.6

2	9/10/21	Added Dimensions
	DATE	REVISION

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Stephen Peters
SIGNATURE

4-30-22
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HINGE DIAPHRAGM PLAN

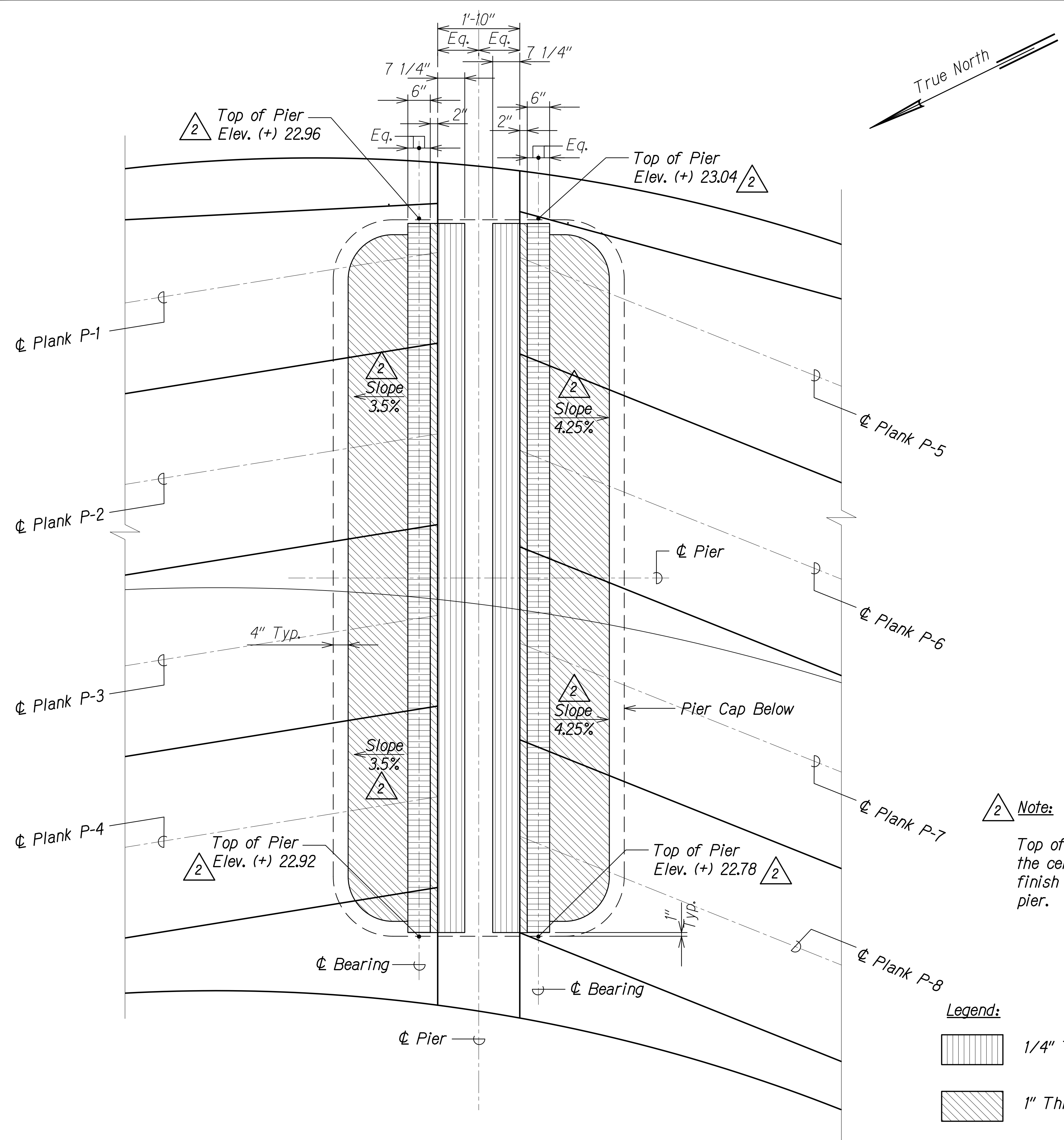
**ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY**
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

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

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HA\01 CAD\09-09-21 ADDXAMP-50806 PIER HINGE ADD2.DWG PLOT TIME: 09-09-21, 10:19 AM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 182	295



PIER PLAN BEARING PAD LAYOUT
Scale: 3/4" = 1'-0"

- Legend:
- 1/4" Thick Premolded Joint Filler
 - 1" Thick Min. XPS Foam
 - 1" Thick Neoprene Bearing Pad

Note:
Top of pier elevations are measured along the centerline of the bearing and denote the finish concrete elevation at the edge of the pier.

STEPHEN T. PETERS
LICENSED PROFESSIONAL ENGINEER
NO. 17097-S
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
SIGNATURE: *Stephen Peters*
EXPIRATION DATE OF THE LICENSE: 4-30-22

DATE	REVISION
9/10/21	Revised and Added Callouts & Note

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

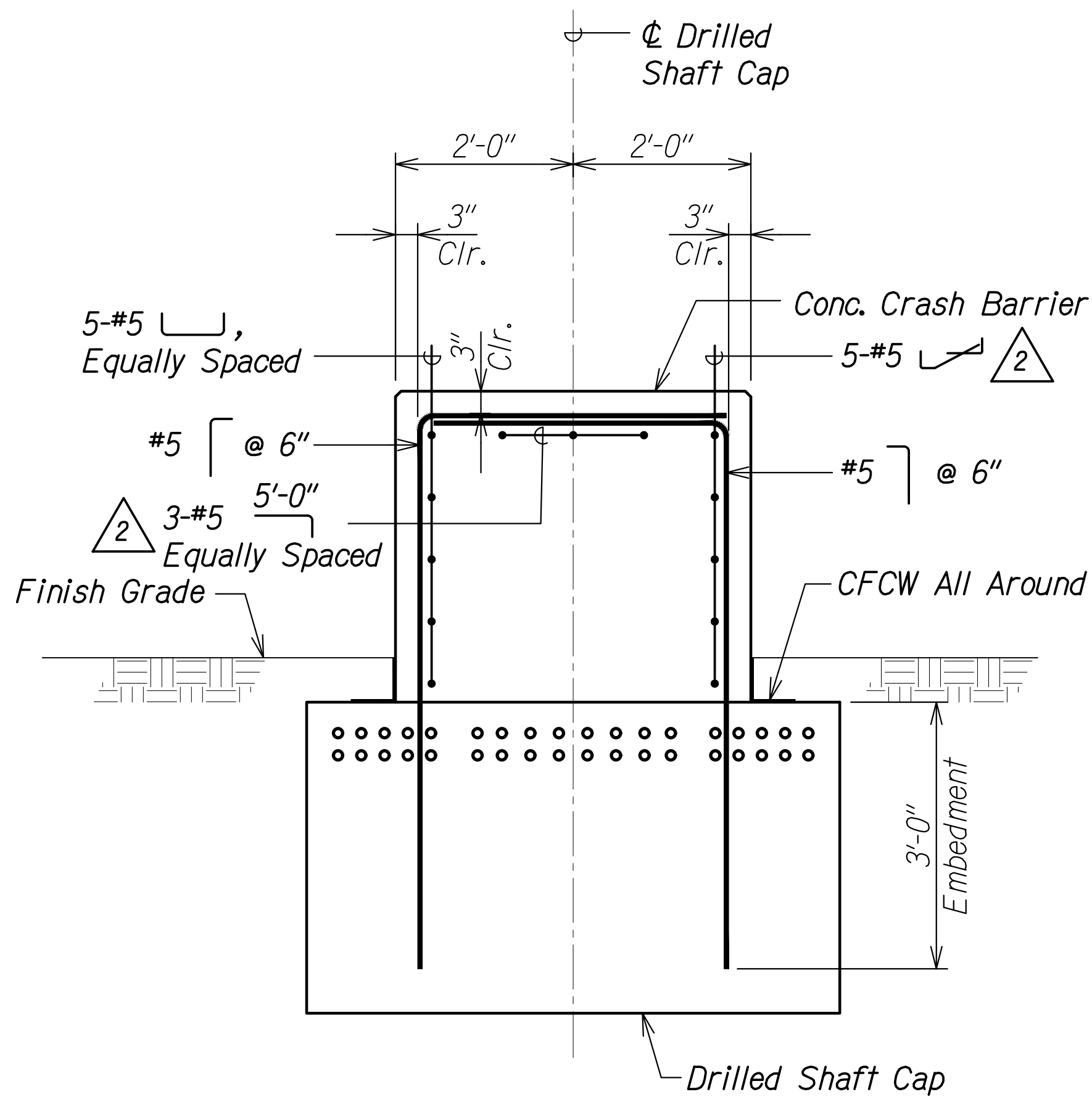
PIER PLAN BEARING PAD LAYOUT

ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)

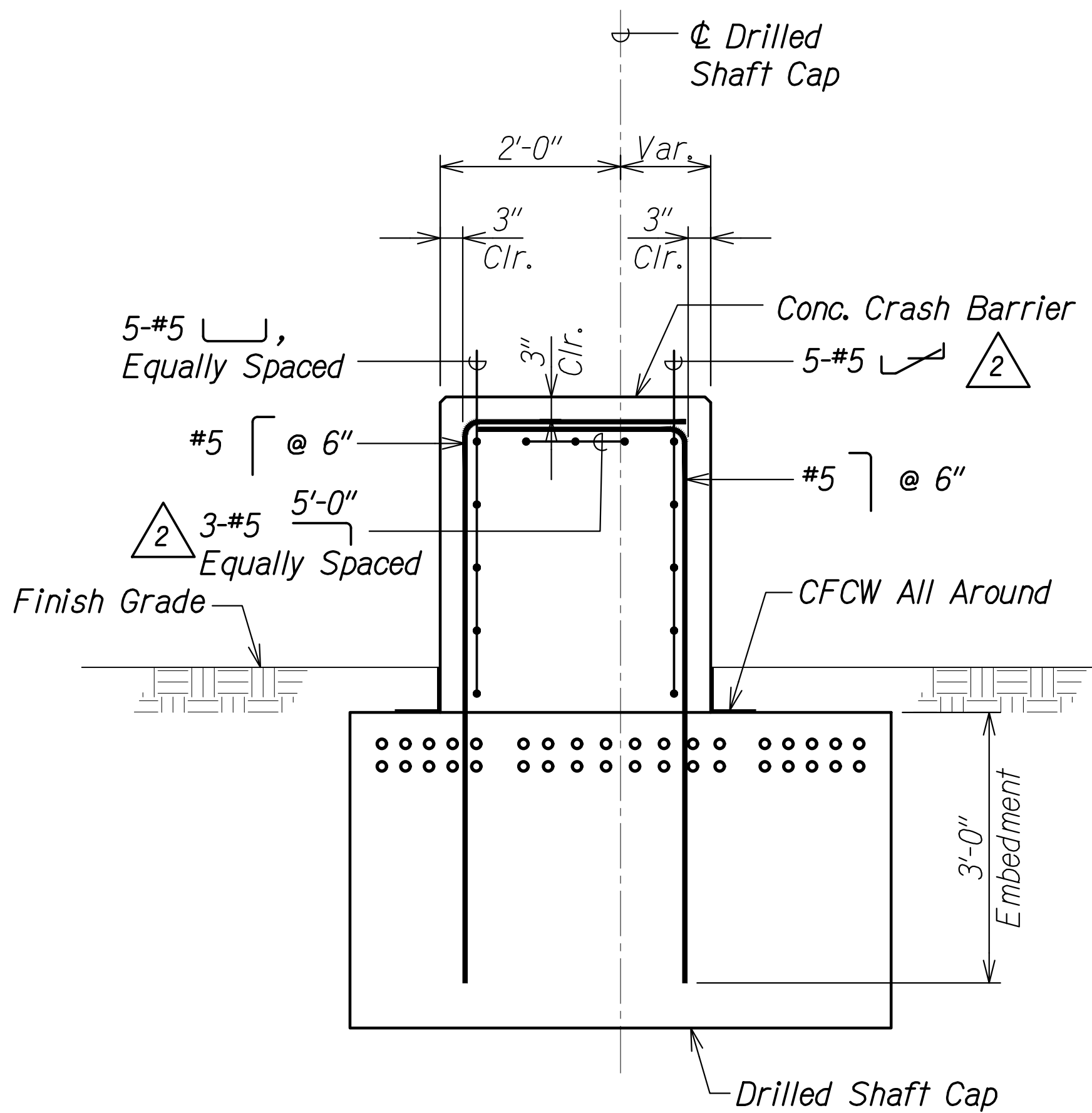
Scale: As Noted Date: July 2021

SHEET No. S8.7 OF 8 SHEETS

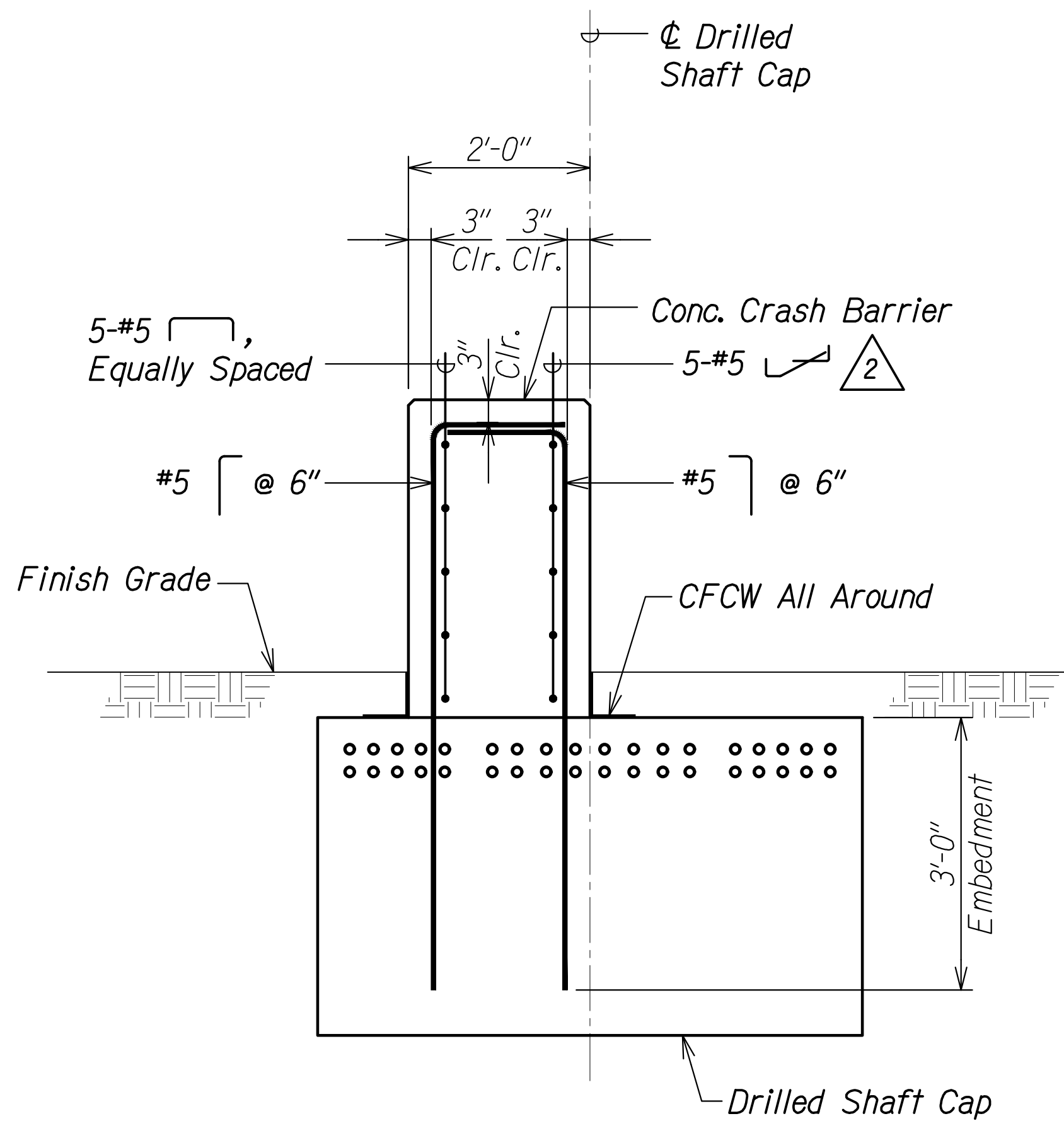
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 183	295



SECTION A
Scale: 3/4" = 1'-0" S8.4 | S8.8



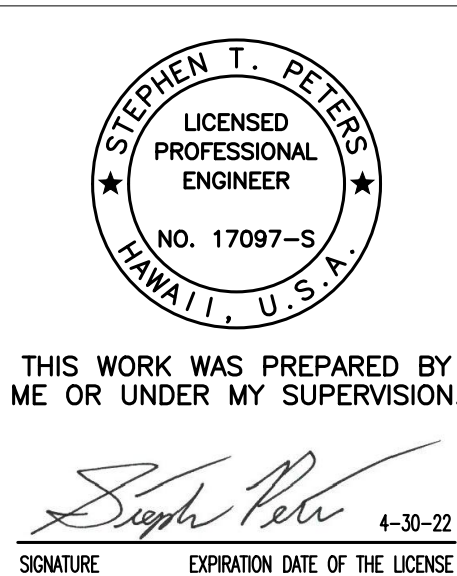
SECTION B
Scale: 3/4" = 1'-0" S8.4 | S8.8



SECTION C
Scale: 3/4" = 1'-0" S8.4 | S8.8

2

DATE	REVISION
9/10/21	Added Reinf. & Revised Callouts



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BARRIER SECTIONS

**ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY**
Federal Aid Project No. BLD-092-1(029)

Scale: As Noted Date: July 2021

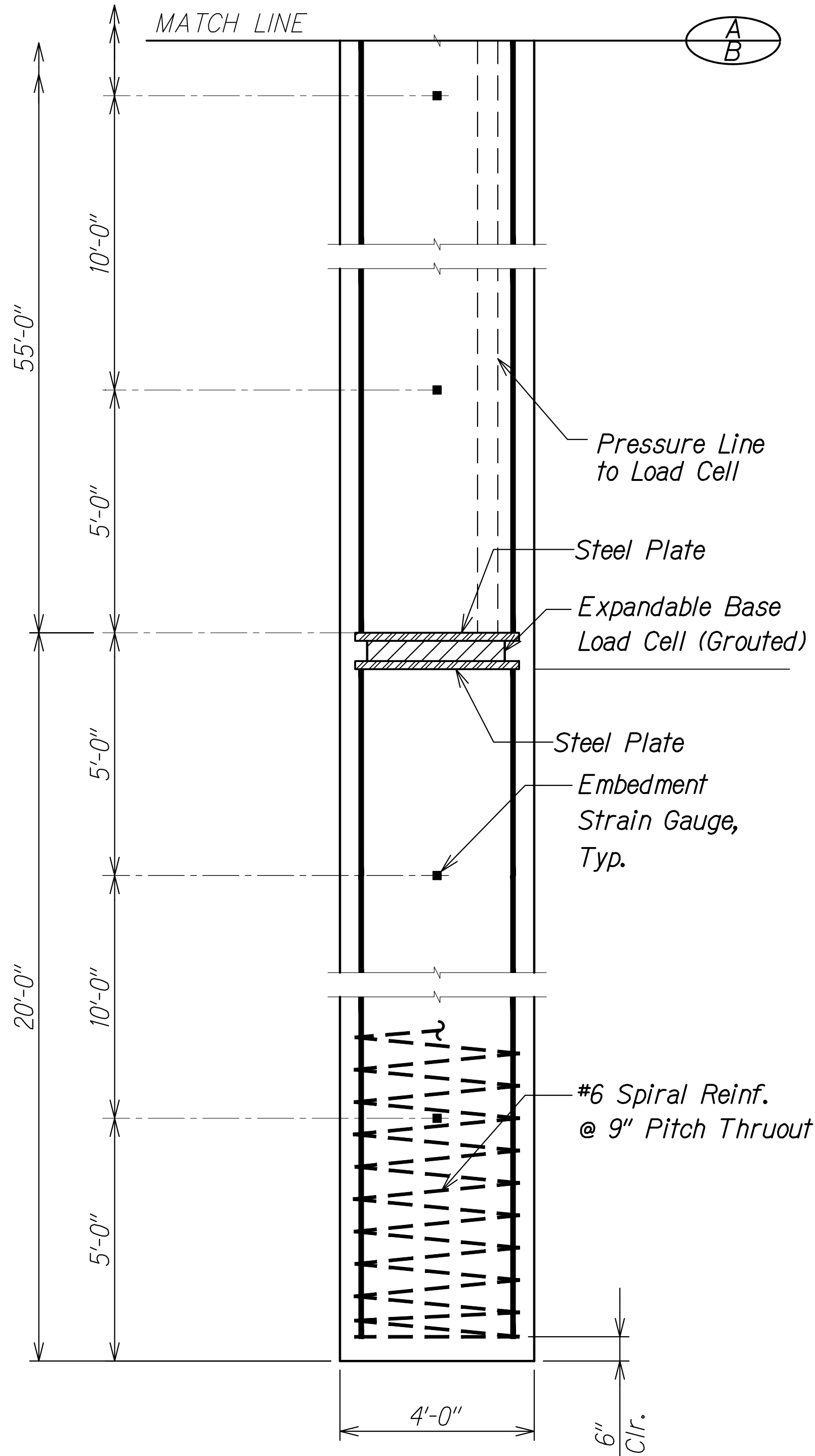
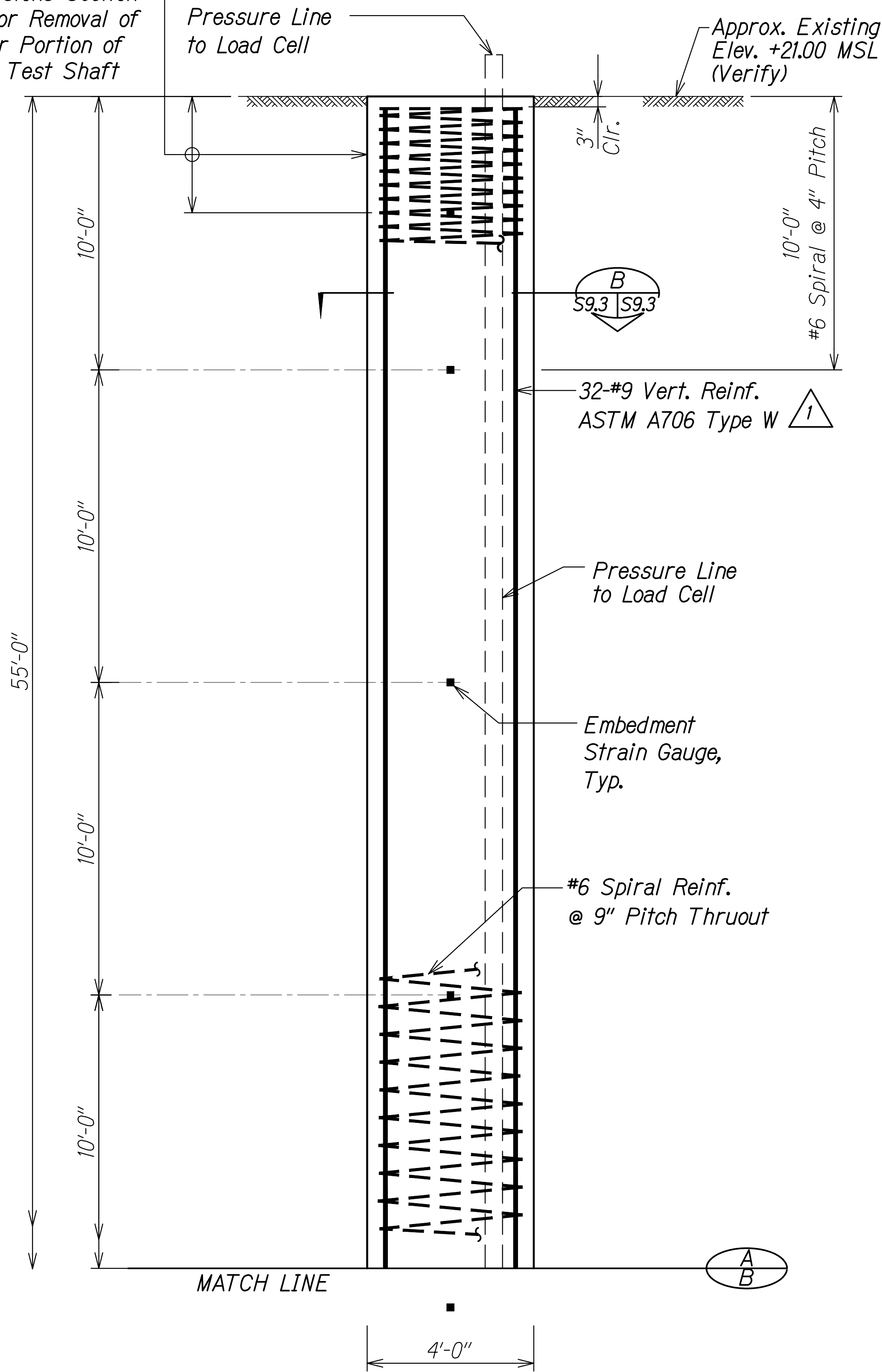
SHEET No. S8.8 OF 8 SHEETS

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

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HH\01 CAD\09-09-21 ADDX AMP-S0808 BARRIER ADD2.DWG PLOT TIME: 09-08-21 6:58 PM

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 186	295

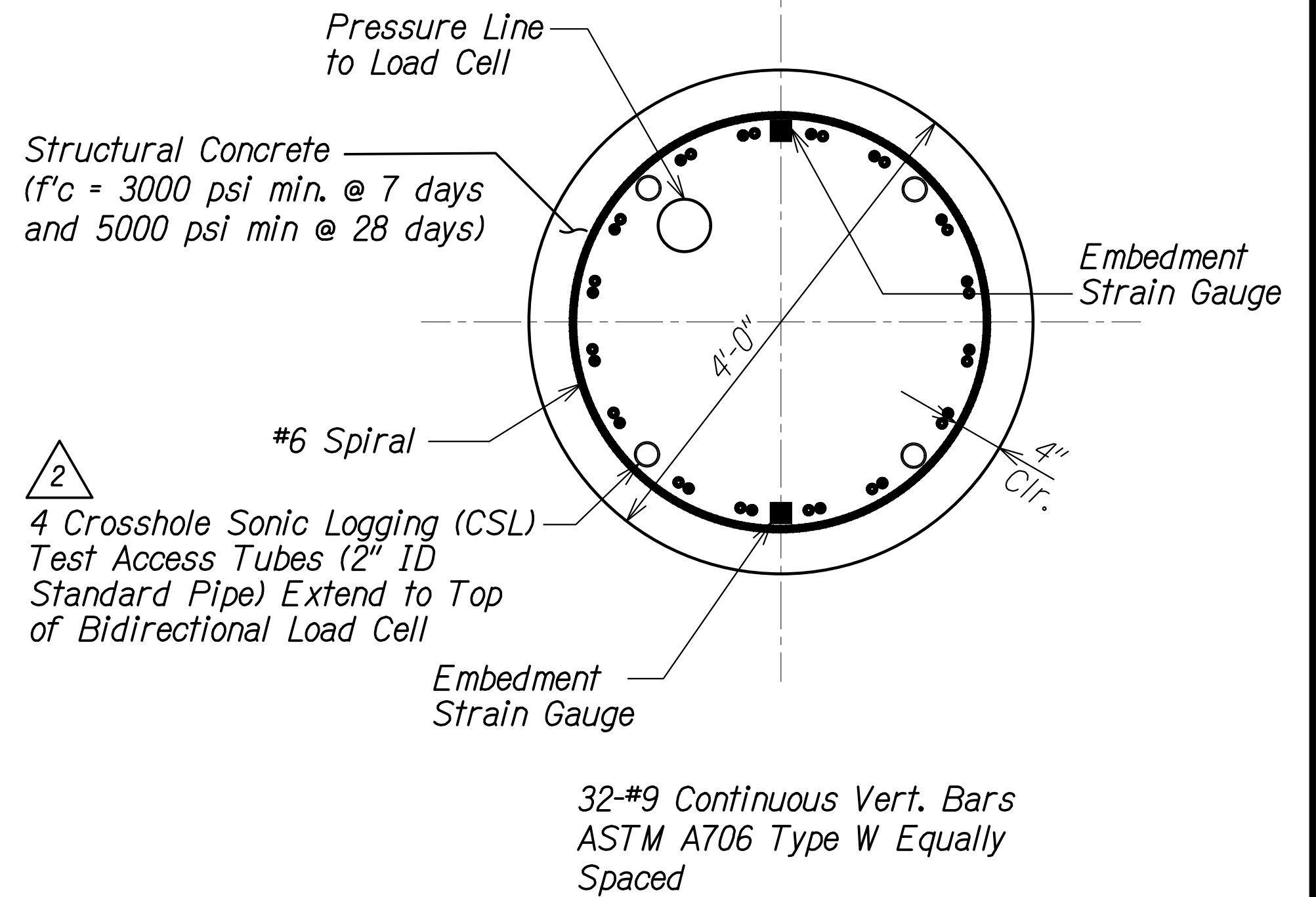
See Special Provisions Section 511 for Removal of Upper Portion of Load Test Shaft



4'-0" DIAMETER LOAD
TEST SHAFT ELEVATION

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

A
S9.3 | S9.3

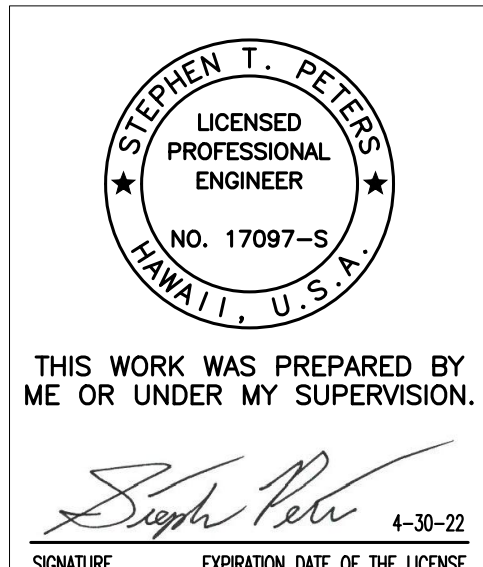


SECTION
Scale: 1" = 1'-0"

B
S9.3 | S9.3

2
1

DATE	REVISION
9/10/21	Added CSL Tube Callout
8/30/21	Revised Shaft Vert. Reinf.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LOAD TEST SHAFT
ALA MOANA BOULEVARD
ELEVATED PEDESTRIAN WALKWAY
Federal Aid Project No. BLD-092-1(029)
Scale: As Noted Date: July 2021

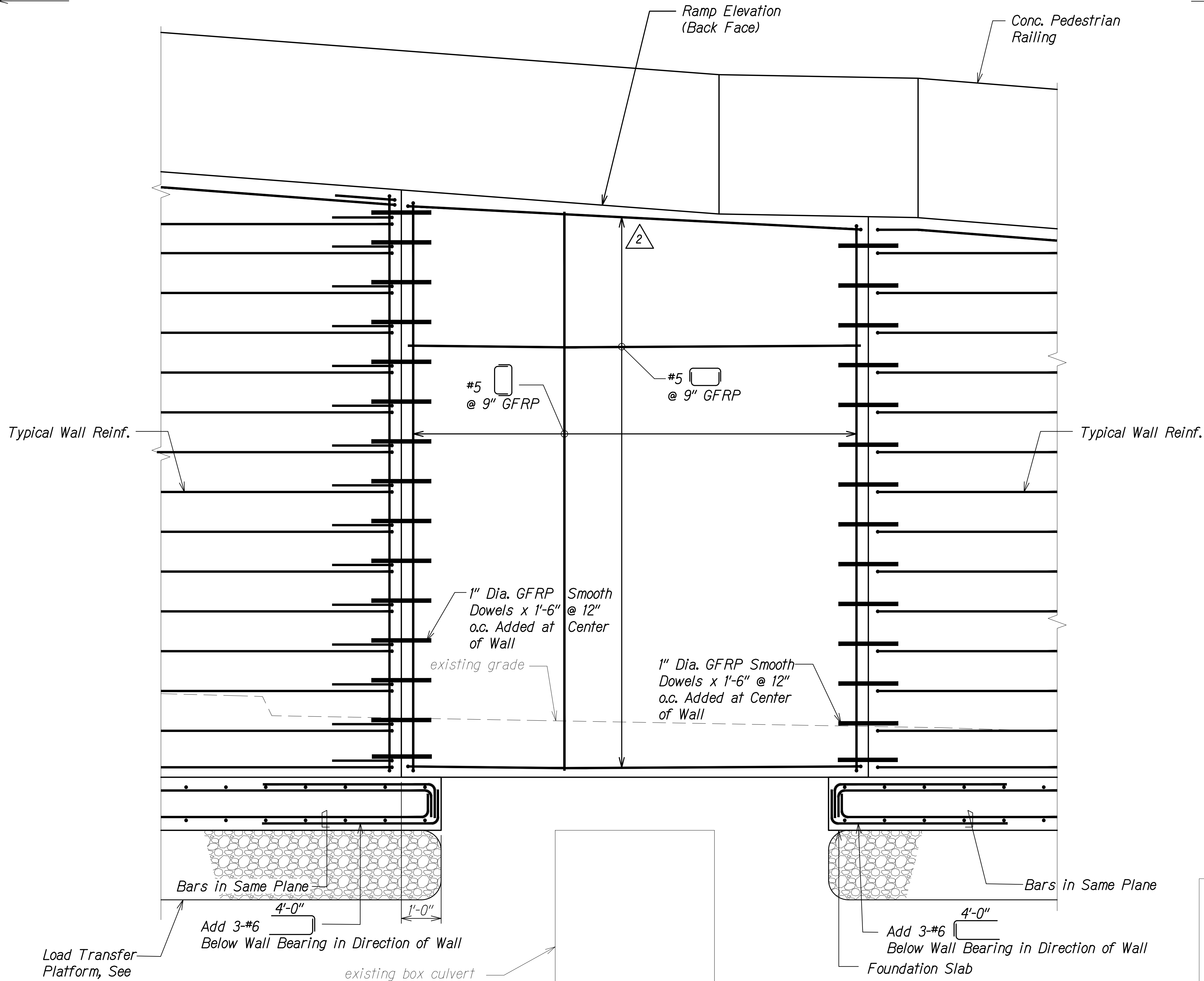
SHEET No. S9.3 OF 4 SHEETS

ADD. 186

Kaka'ako

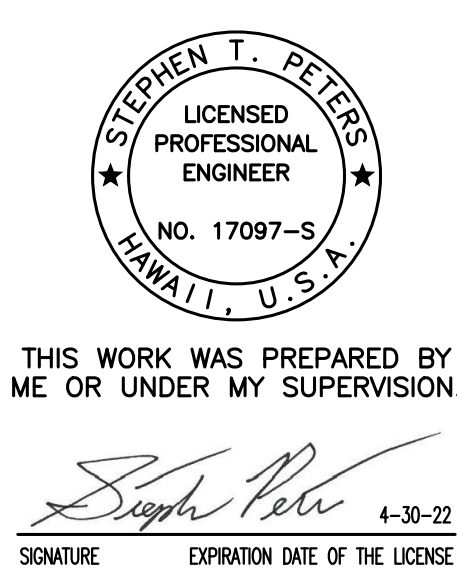
Diamond Head

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 211	295



WALL SPAN OVER CULVERT ELEVATION
Scale: 3/4" = 1'-0"

A
S13.3 S13.3

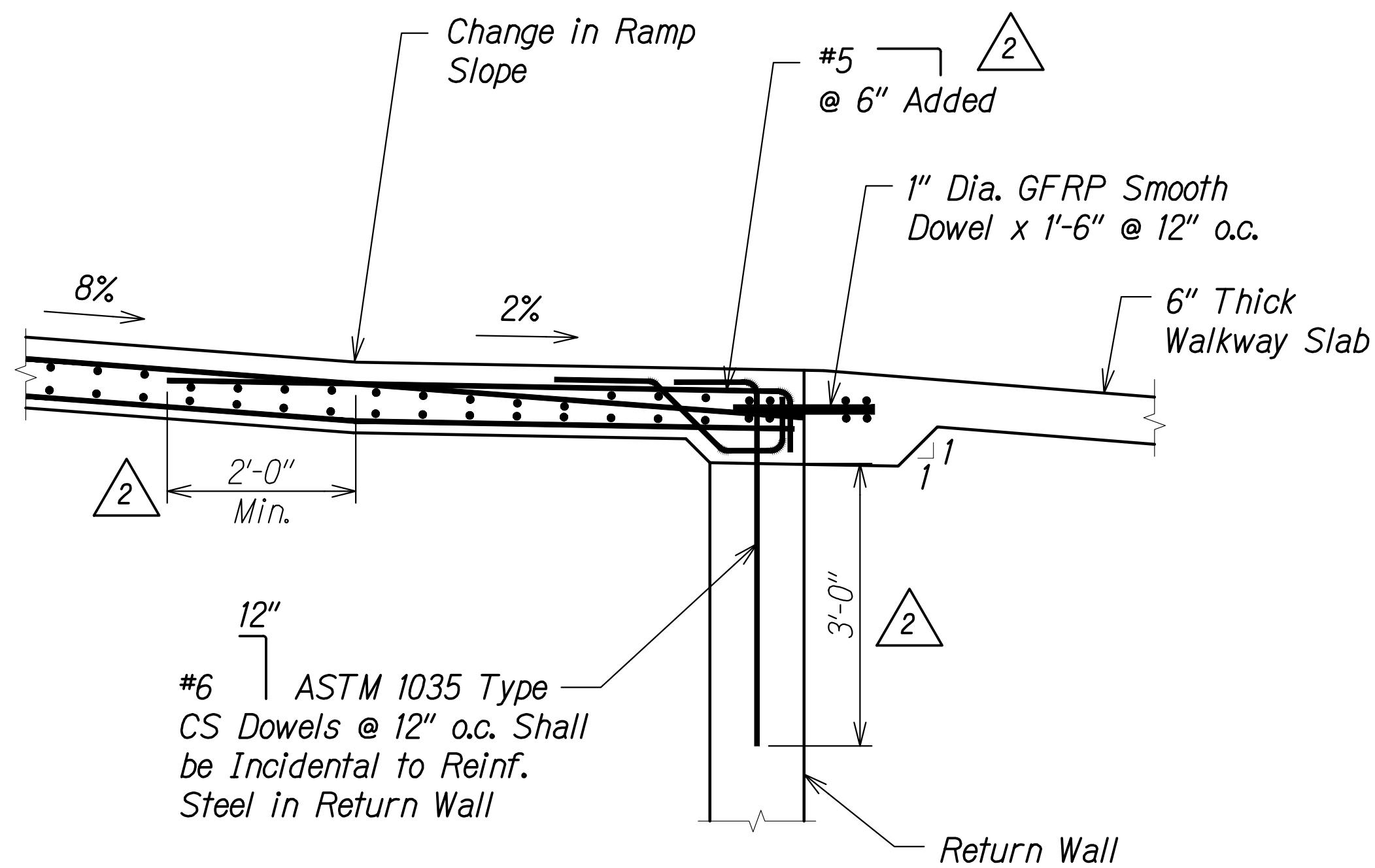


2

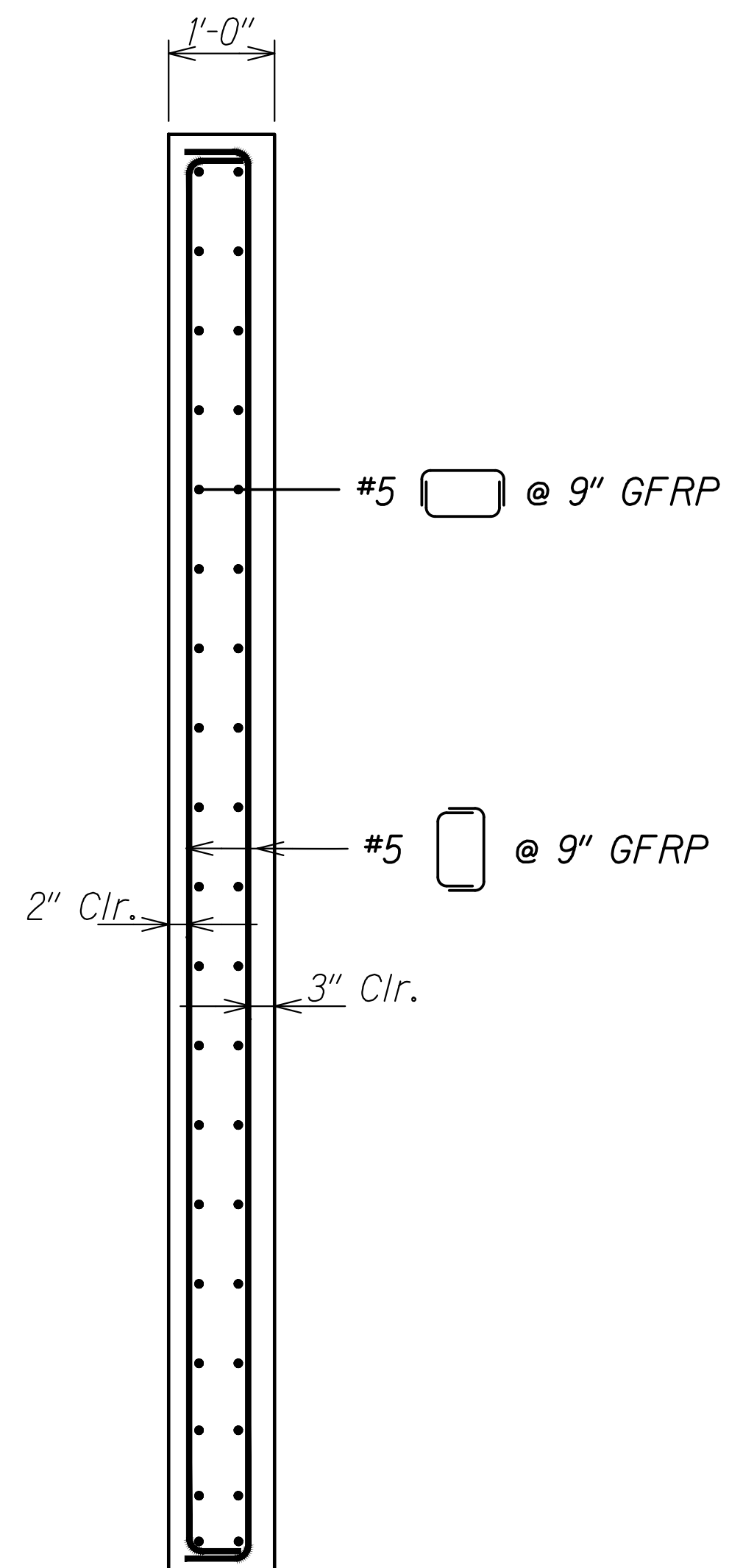
9/10/21	Revised Callout Leader
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
WALL SPAN OVER CULVERT ELEVATION	
ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029)	
Scale: As Noted	Date: July 2021
SHEET No. S13.3 OF 5 SHEETS	

ADD. 211

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BLD-092-1(029)	2021	ADD. 213	295



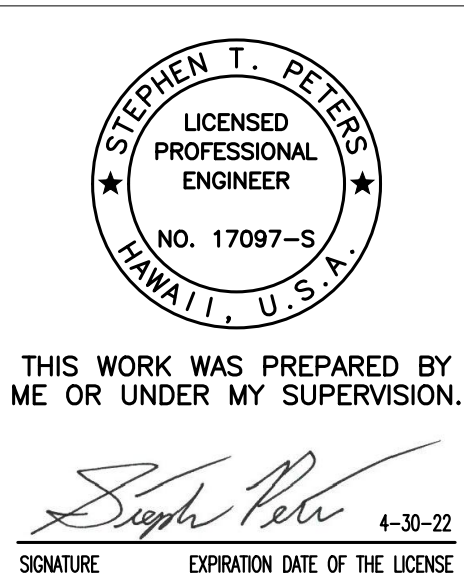
SECTION A
Scale: 3/4" = 1'-0"



WALL SPAN OVER CULVERT SECTION B
Scale: 3/4" = 1'-0"

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

DRAWING NAME: Z:\00 ONGOING\20-012-ALA MOANA PED BR-HH\01 CAD\09-09-21 ADDX\AMP-S1301 RAMP MAKAI DECK SLAB CULV ADD2.DWG PLOT TIME: 09-09-21, 10:20 AM



2	9/10/21	Revised Callout and Added Dimensions
	DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION WALKWAY SLAB OVER CULVERT SECTION ALA MOANA BOULEVARD ELEVATED PEDESTRIAN WALKWAY Federal Aid Project No. BLD-092-1(029) Scale: As Noted Date: July 2021 SHEET No. S13.5 OF 5 SHEETS		

