SHEET NO.	<u>DESCRIPTION</u>
<i>S0.</i> 1	INDEX TO STRUCTURAL DRAWINGS
S0 <b>.</b> 2	INDEX TO STRUCTURAL DRAWINGS
S0 <b>.</b> 3	INDEX TO STRUCTURAL DRAWINGS
<i>S0</i> .4	STRUCTURAL GENERAL NOTES
S0 <b>.</b> 5	STRUCTURAL GENERAL NOTES
<i>S0.</i> 6	STRUCTURAL GENERAL NOTES
<i>S0</i> .7	STRUCTURAL GENERAL NOTES
<i>S0.</i> 8	STRUCTURAL GENERAL NOTES
S0 <b>.</b> 9	SYMBOLS AND ABBREVIATIONS
SA1.1	LAYOUT PLAN
SA1.2	FOUNDATION PLAN
SA2.1	DOWNSTREAM ELEVATION
SA2.2	TYPICAL TRANSVERSE SECTION
SA2.3	TRANSVERSE SECTION AT FIXED BEARING BENTS
SA2.4	TRANSVERSE SECTION AT EXPANSION BEARING BENTS
SA2.5	SURVEY POINTS
SA3.1	ABUTMENT NOS. 1 AND 2 PLAN
SA3.2	ABUTMENT NOS. 1 AND 2 ELEVATIONS
SA3.3	ABUTMENT NO. 1 DEMO PLAN AND SECTIONS
SA3.4	ABUTMENT NO. 2 DEMO PLAN AND SECTIONS
SA3.5	ABUTMENT NO. 1 ABUTMENT SECTIONS
SA3.6	ABUTMENT NO. 2 ABUTMENT SECTIONS
SA3.7	BEARING REPLACEMENT CONSTRUCTION SEQUENCE
SA4.1	MEMBER ID LOCATION KEY, LEGEND, WP DETAILS & SCHEDULE AT B
SA4.2	MEMBER ID LOCATION KEY AND LEGEND AT TRESTLES
SA4.3	BENT NO. 1 / TRESTLE NO. 1 MEMBER ELEVATIONS
SA4.4	BENT NO. 2 / TRESTLE NO. 2 MEMBER ELEVATIONS
SA4.5	BENT NO. 3 / TRESTLE NO. 2 MEMBER ELEVATIONS
SA4.6	BENT NO. 4 / TRESTLE NO. 3 MEMBER ELEVATIONS
SA4.7	BENT NO. 5 / TRESTLE NO. 3 MEMBER ELEVATIONS
SA4.8	BENT NO. 6 / TRESTLE NO. 4 MEMBER ELEVATIONS
SA4.9	BENT NO. 7 / TRESTLE NO. 4 MEMBER ELEVATIONS
SA4.10	BENT NOS. 8 AND 9 / TRESTLE NO. 5 MEMBER ELEVATIO

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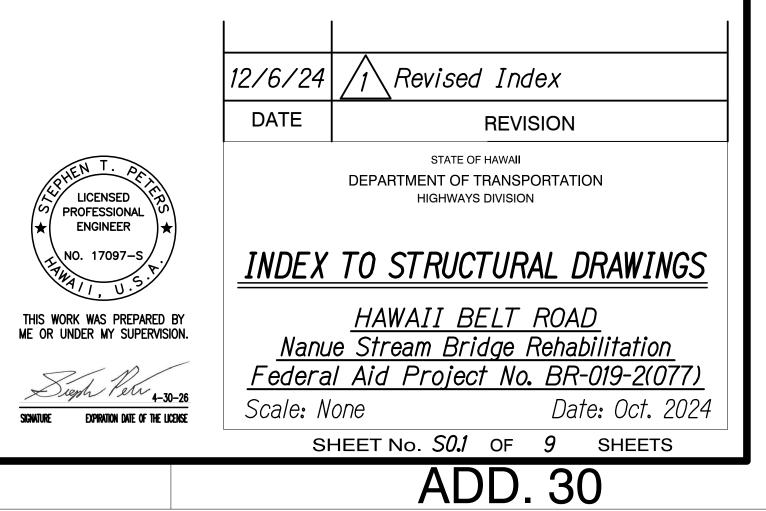
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# INDEX TO STRUCTURAL DRAWINGS

	<u>SHEET NO.</u>	<u>DESCRIPTION</u>
	SA4.11	CONNECTION ID LOCATION KEY AND LEGEND AT BENTS
	SA4.12	CONNECTION ID LOCATION KEY AND LEGEND AT TRESTLES
	SA4.13	BENT NO. 1 / TRESTLE NO. 1 CONNECTION ELEVATIONS
	SA4.14	BENT NO. 2 / TRESTLE NO. 2 CONNECTION ELEVATIONS
	SA4.15	BENT NO. 3 / TRESTLE NO. 2 CONNECTION ELEVATIONS
	SA4.16	BENT NO. 4 / TRESTLE NO. 3 CONNECTION ELEVATIONS
	SA4.17	BENT NO. 5 / TRESTLE NO. 3 CONNECTION ELEVATIONS
	SA4.18	BENT NO. 6 / TRESTLE NO. 4 CONNECTION ELEVATIONS
	SA4.19	BENT NO. 7 / TRESTLE NO. 4 CONNECTION ELEVATIONS
	SA4.20	BENT NOS. 8 AND 9 / TRESTLE NO. 5 CONNECTION ELEVATIONS
	SA5.1	UPPER COLUMN ELEVATIONS
	SA5.2	UPPER COLUMN ELEVATIONS
	SA5.3	INTERMEDIATE COLUMN ELEVATIONS
	SA5.4	INTERMEDIATE COLUMN ELEVATIONS
	SA5.5	LOWER COLUMN ELEVATIONS
S	SA5.6	LOWER COLUMN ELEVATIONS
	SA5.7	BENT NO. 1 COLUMN ELEVATIONS
	SA5.8	BENT NO. 1 COLUMN ELEVATIONS
	SA5.9	BENT NO. 9 COLUMN ELEVATIONS
	SA5.10	BENT NO. 9 COLUMN ELEVATIONS
	SA5.11	COLUMN SECTIONS AND DETAILS
	SA5.12	DIAGONAL BRACE PLAN, ELEVATION AND SECTION
	SA5.13	DIAGONAL BRACE SCHEDULE
	SA5.14	DIAGONAL BRACE SCHEDULE
	SA5.15	DIAGONAL BRACE PLAN, ELEVATION AND SECTION
	SA5.16	DIAGONAL BRACE SCHEDULE
BENTS	SA5.17	DIAGONAL BRACE PLAN, ELEVATION AND SECTION
	SA5.18	DIAGONAL BRACE SCHEDULE
	SA5.19	HORIZONTAL BRACE PLAN, ELEVATION AND SECTION
	SA5.20	HORIZONTAL BRACE SCHEDULE
	SA5.21	HORIZONTAL BRACE PLAN, ELEVATION AND SECTION
	SA5.22	HORIZONTAL BRACE SCHEDULE
	SA5.23	DIAGONAL BRACE PLAN, ELEVATION AND SECTION
	SA5.24	DIAGONAL BRACE SCHEDULE
	SA5.25	DIAGONAL BRACE SCHEDULE
TIONS	SA5.26	DIAGONAL BRACE PLAN, ELEVATION AND SECTION
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SHEET NO.	DESCRIPTION
SA5.27	DIAGONAL BRACE SCHEDULE
SA5 <b>.</b> 28	HORIZONTAL BRACE PLAN, ELEVATION AND SECTION
SA5.29	HORIZONTAL BRACE PLAN, ELEVATION AND SECTION
SA5.30	HORIZONTAL BRACE SCHEDULE
SA5.31	VERTICAL BRACE PLAN, ELEVATION AND SECTION
SA5.32	VERTICAL BRACE SCHEDULE
SA5.33	VERTICAL BRACE PLAN, ELEVATION AND SECTION
SA5.34	VERTICAL BRACE SCHEDULE
SA6.1	COLUMN SPLICE CONNECTION DETAILS
SA6.2	COLUMN TO BRACE CONNECTION DETAILS
SA6.3	COLUMN TO BRACE CONNECTION DETAILS
SA6.4	COLUMN TO BRACE CONNECTION DETAILS
SA6.5	COLUMN TO BRACE CONNECTION DETAILS
SA6.6	COLUMN TO BRACE CONNECTION DETAILS
SA6.7	COLUMN TO BRACE CONNECTION DETAILS
SA6.8	COLUMN TO BRACE CONNECTION DETAILS
SA6.9	COLUMN TO BRACE CONNECTION DETAILS
SA6.10	BASE COLUMN TO BRACE CONNECTION DETAILS
SA6.11	BASE COLUMN TO BRACE CONNECTION DETAILS
SA6.12	BASE COLUMN TO BRACE CONNECTION DETAILS
SA6.13	BASE COLUMN TO BRACE CONNECTION DETAILS
SA6.14	TOP COLUMN TO BRACE CONNECTION DETAILS
SA6.15	BRACE TO BRACE CONNECTION DETAILS
SA6.16	BRACE TO BRACE CONNECTION DETAILS
SA6.17	BRACE TO BRACE CONNECTION DETAILS
SA6.17A	PAINT BLOCKING DETAILS AT BOLTED CONNECTIONS
SA6.18	CONNECTION REFERENCE SCHEDULE



5.	<u>Stru</u>	ictural Steel (Cont.)
	В.	All new steel structures shall be ASTM A123 hot-dip zin galvanized after all fabrication is complete. Protect ele against hydrogen embrittlement in conformance with AST Post-galvanizing quenching/passivation shall not be utill steel going to paint. Coordinate with coating Contractor
	С.	The steel detailer of the trestle structures shall hold a National Institute of Steel Detailing (NISD) Senior Detail Class I Bridge Certification and shall be submitted to the Engineer for review and approval.
$\sqrt{1}$	D.	The steel fabricator of the trestle structures shall hold AISC Intermediate (IBR) Bridge Fabricator Certification be submitted to the Engineer for review and approval.
	Ε.	Prior to hot-dip galvanizing, all welding flux and slag s completely removed using mechanical methods to ensure zinc adhesion.
	F.	Vent holes may be provided in members for hot-dip zinc galvanized operation. Size and location of holes shall be determined by galvanizing contractor, unless otherwise s the drawings. Vent hole sizes and locations shall be in the structural steel shop drawings. All holes, other that plates, and where noted shall be filled with zinc plugs galvanizing operation.
	G <b>.</b>	All damage done to galvanized steel surfaces shall be r accordance with ASTM A780 using the zinc solder meth rich paint shall not be an acceptable repair procedure
	Н.	Structural parts designated for CVN Testing shall meet longitudinal Charpy V-Notch requirements for a non-frac critical member in Zone 1.
	Ι.	Steel plates for columns shall be cut and fabricated so primary direction of rolling is parallel to the column len column splice plates, the direction shall be parallel to th of the splice. For base plates, the direction shall be par the centerline of the bent.
	J.	All holes in steel members shall be be sub-punched and full size drilled.
	К.	All holes for bolted connections shall be standard size otherwise shown on the contract drawings.
	L.	Bolt assemblies which connect steel to steel shall utilize high-strength bolts conforming to ASTM F3125, Grade As unless otherwise noted. Bolts shall be ordered such that are excluded from the shear plane. Bolts shall be snug unless otherwise shown on plans. All pretensioned/ slip bolts shall utilize Direct Tension Indicating (DTI) washe ensure proper bolt tension. Bolts shall be inspected.
	М.	Steel-to-steel bolted joints designated as slip-critical sh pretensioned bolt assemblies with additional paint maski requirements between the faying surfaces. Provide pain details as shown in the contract documents.

# STRUCTURAL GENERAL NOTES

5. <u>Structural Steel (Cont.)</u>

N. All nuts shall be ASTM A563 DH heavy-hex and all hardened washers shall be ASTM F436. All hardened washers shall have a hardness of Rc 38-45. DTI Washer shall be ASTM F959 and shall be installed under the bolt head or nut as shown on the Contract drawings.

- O. Matched Bolt Assemblies shall contain bolt, nut, and washer provided by the same supplier.
- P. Installation of all bolted assemblies shall be in accordance with the latest Research Council of Structural Connections (RCSC) Specifications for Structural Joints Using High-Strength Bolts.
- Q. Anchor bolts which connect steel to concrete shall be high-strength threaded rods conforming to ASTM F1554, Grade 105 and shall be straight rod with anchor plate details at the embedded end as shown in the contract drawings. Anchor bolts shall have CVN Testing performed. Anchor bolts shall be pretensioned by the turn of the nut method. See anchor bolt pretensioning schedule.
- R. All hardware, including bolts, anchor bolts, nuts and hardened washers shall be ASTM F2329 hot-dip zinc galvanized. Hardware shall be centrifugally cleaned post galvanizing. Nut threads shall be tapped oversized prior to galvanizing in accordance with ASTM A563 and are prohibited from being chased following the galvanizing process. DTI washers shall be mechanically zinc galvanized in accordance with ASTM B695, Class 55.
- S. All welding shall conform to the latest ANSI/AASHTO/AWS D1.5 Bridge Welding Code. Welding shall be performed in accordance with a Welding Procedure Specification (WPS) and Procedure Qualification Record (PQR) as required in AWS D1.5. The WPS variables shall be within the parameters established by the filler-metal manufacturer.
- T. All welding, whether shop or field, shall be done by certified welders in conformance with the Bridge Welding Code AWS D1.5 of the American Welding Society.
- U. All Welder Certifications, WPS's and supporting PQR's shall be submitted to the Engineer for review and approval prior to any welding being performed.
- V. Welding shall be performed in such a manner so as to minimize warping and distortion of steel pieces being joined. Excessive concentrated heat being applied to steel pieces shall be avoided.
- W. All welded connections shall receive full seal welding along all edges of faying surfaces to prevent moisture intrusion.
- X. All weld sizes are shown in inches. No fillet weld (including seal welds) or PJP weld shall be less than 1/4" and 3/16", respectively.

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- 6. <u>Structural Steel (Cont.)</u>
  - Y. All welds shall utilize E70XX Electrodes where Shielded Metal Arc Welding (SMAW) is utilized. Where other welding processes are used, filler metal shall have matching strength to base metal.
  - Z. Field welding shall not be permitted unless explicitly shown on the contract drawings.
  - AA. All welding arc strikes, whether shop or field performed, shall be ground flush to the base metal. Any arc strikes made to the bottom flange of the plate girder shall additionally have magnetic particle inspection and hardness testing performed in accordance with AWS D1.5.
  - AB. All existing deformed girder stiffeners shall be cold straightened to bring them back in original alignment over their full height. Cost for this work shall be incidental to the various pay items.
  - AC. See Standard Specifications and Special Provisions Section 501 -STEEL STRUCTURES for additional requirements.

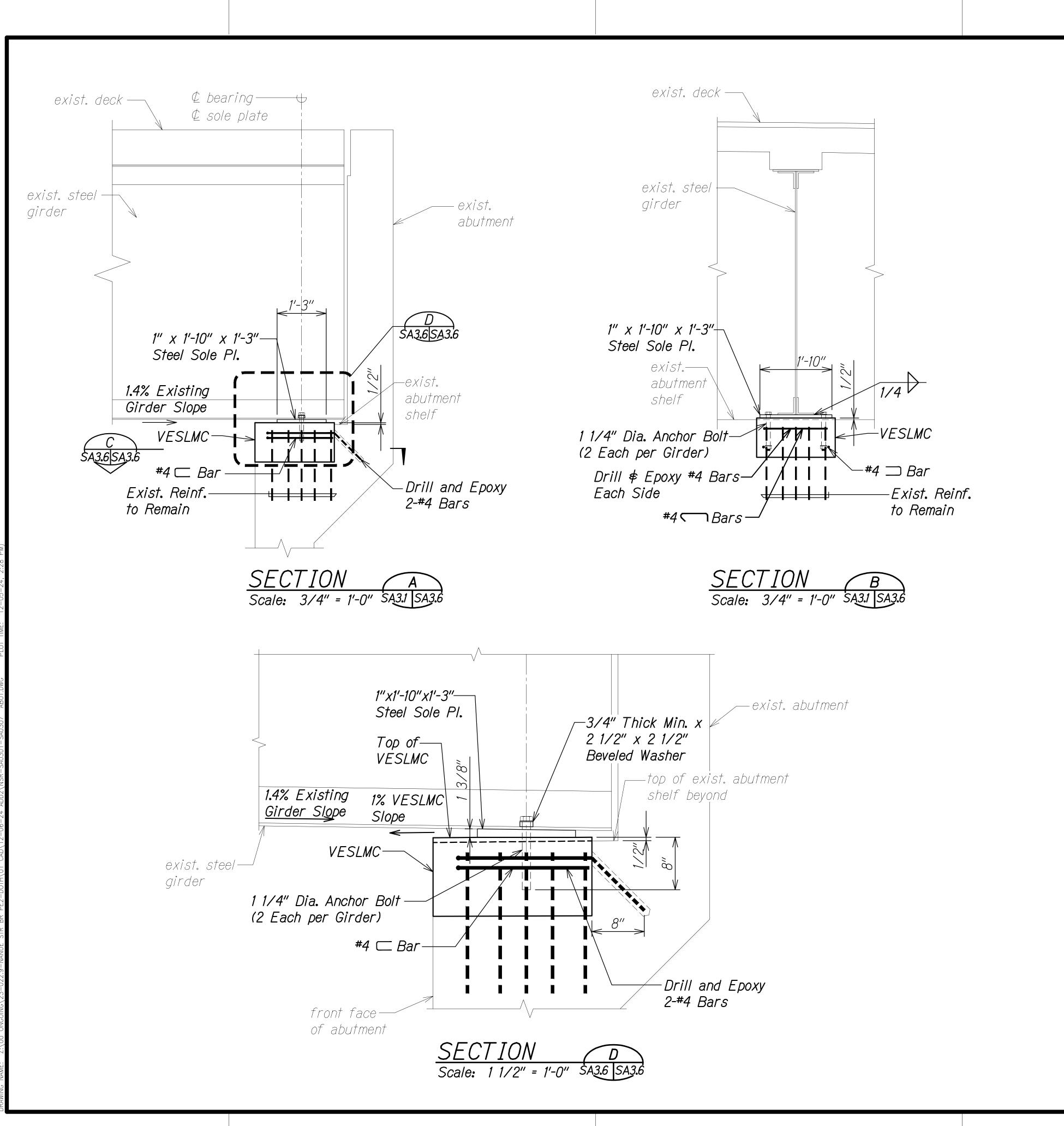
## 6. <u>Concrete:</u>

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 (Ibs./cy)	Included Admixtures (See Notes Below in This Section)
(1) Foundation Pedestals, Grade Beams, and Cheek Walls	6,000 psi	0.40	720	C, D, E
(2) Underwater Concrete	(See Special	Provisions Se	ection 615)	
(3) VESLMC	(See Special	Provisions Se	ection 679)	
B. The use of calcium	n chloride in a	any concrete	is prohibi	ited.

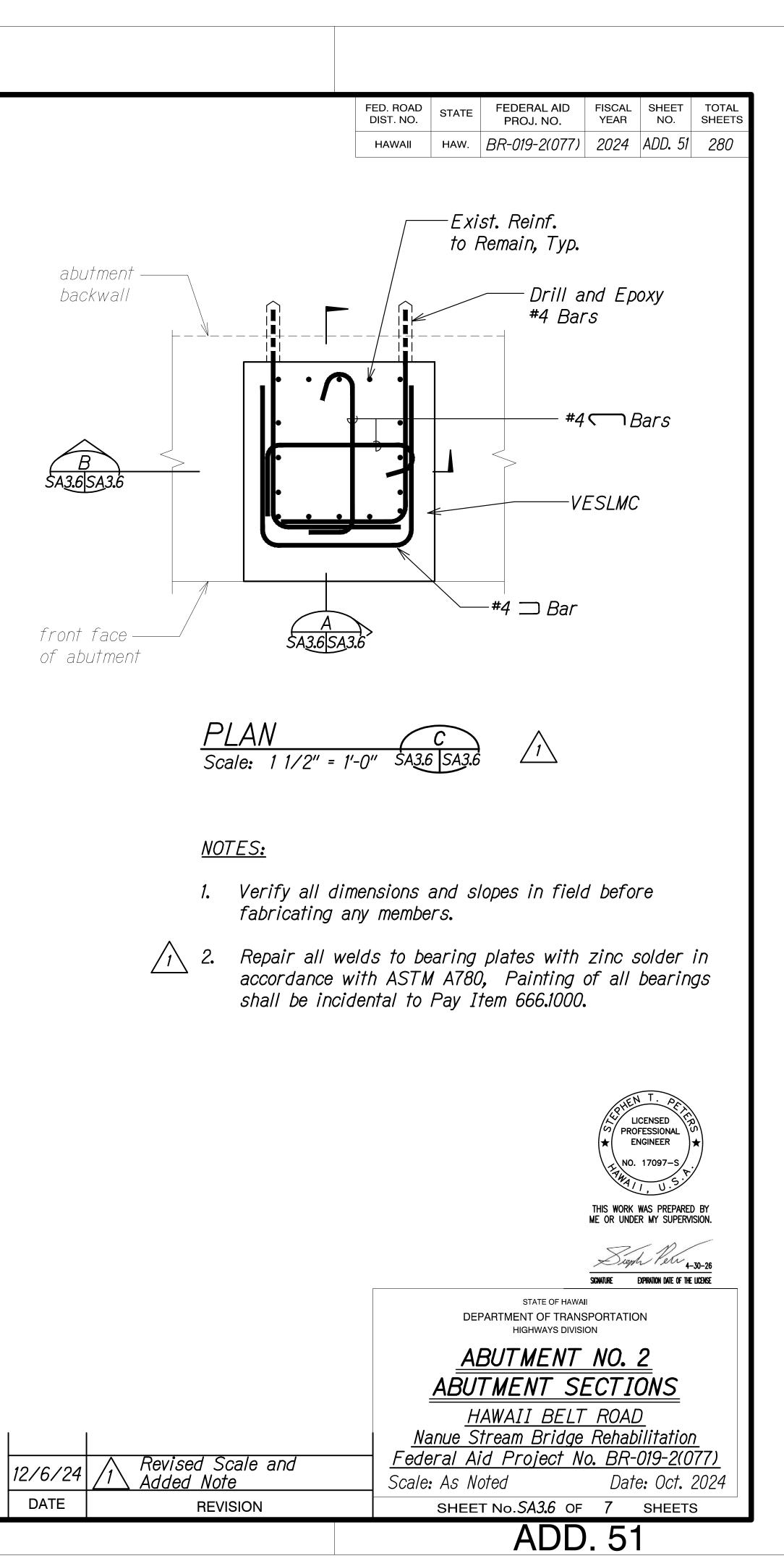
C. A migrating amine carboxylate water-based corrosion inhibiting admixture such as Cortec MCI 2005 NS or approved equal shall be added to the concrete mix. The dosage requirements shall be 24 fluid ounces per cubic yard of concrete.

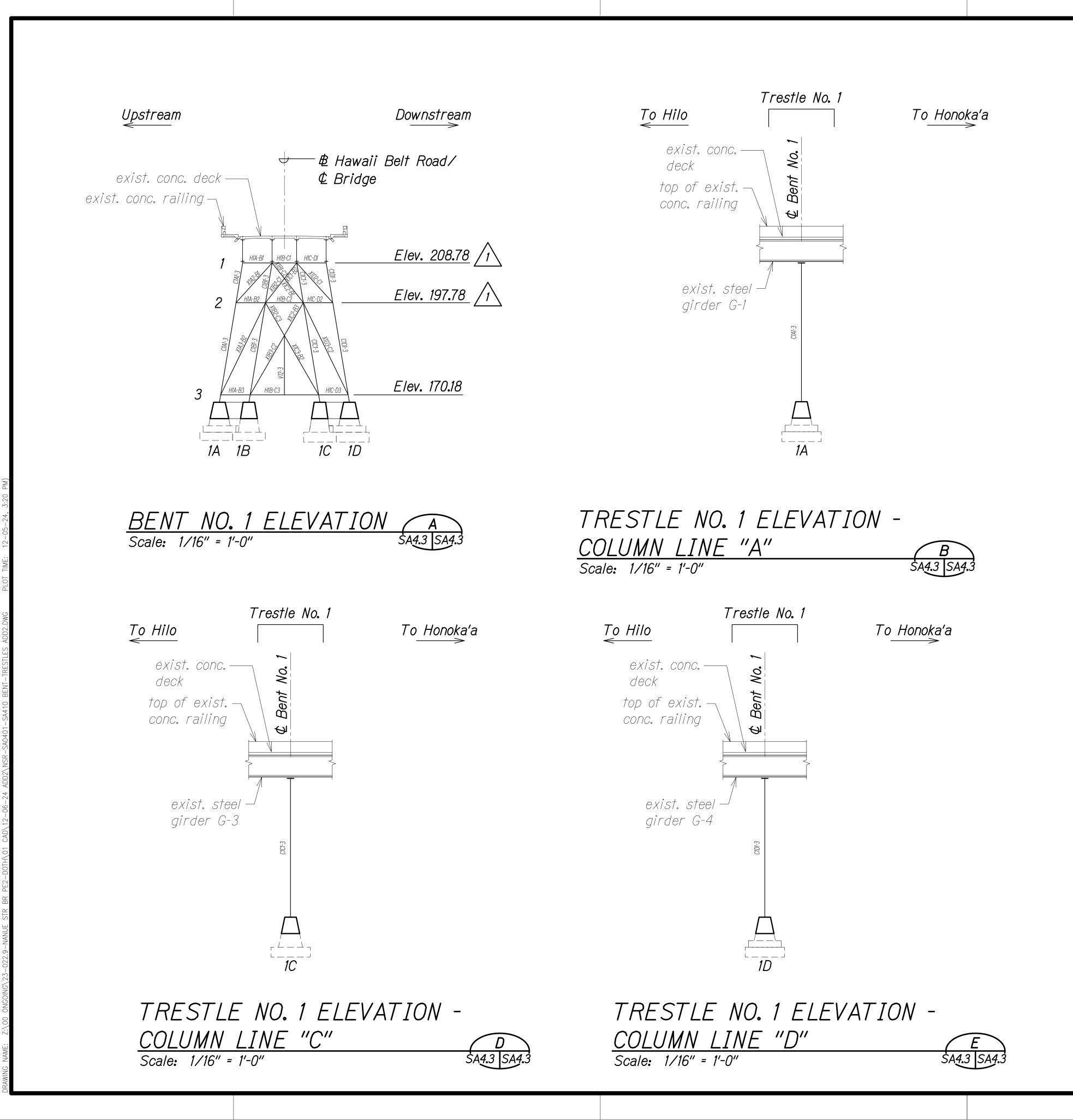
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EVISION		SHEET NO. SO.5 OF 9 SHEETS
d Note	- SIGNATURE EXPIRATION DATE OF THE LICENSE	Scale: None Date: Oct. 2024
d Noto	Sient Petr	Federal Aid Project No. BR-019-2(077)
	ME OR UNDER MY SUPERVISION.	Nanue Stream Bridge Rehabilitation
	THIS WORK WAS PREPARED BY	HAWAII BELT ROAD
	HT NO. 17097-S	<u>STRUCTURAL GENERAL NOTES</u>
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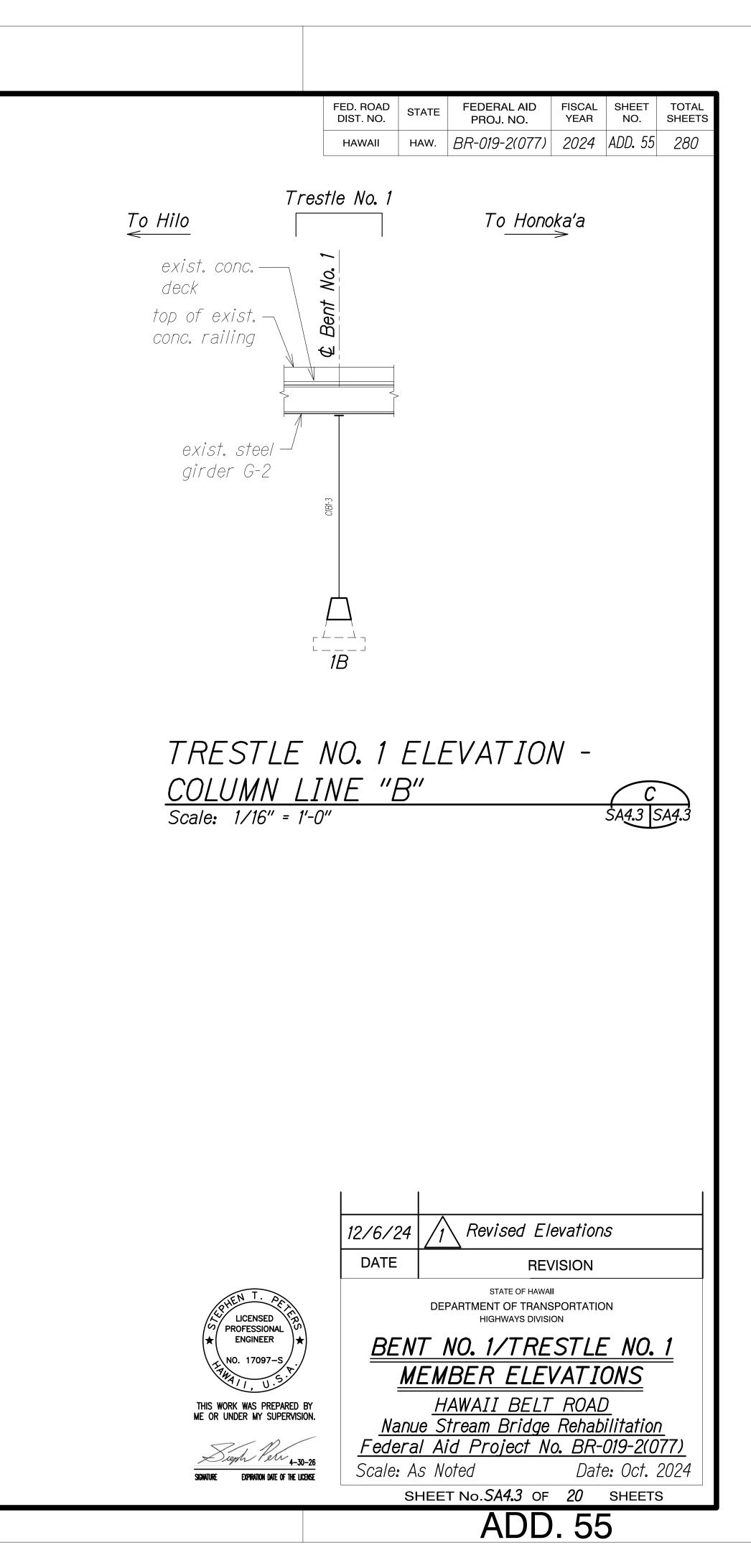
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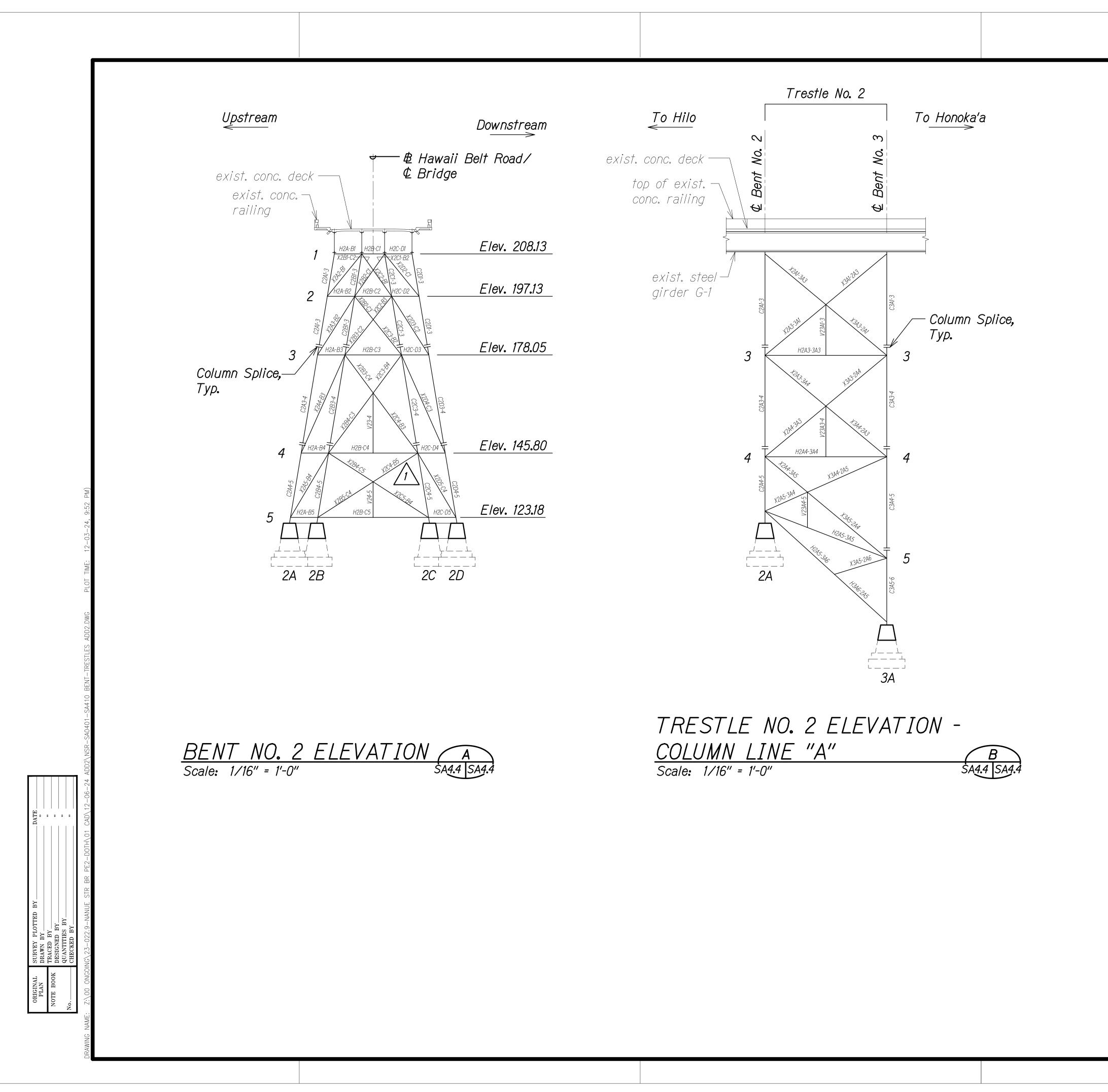


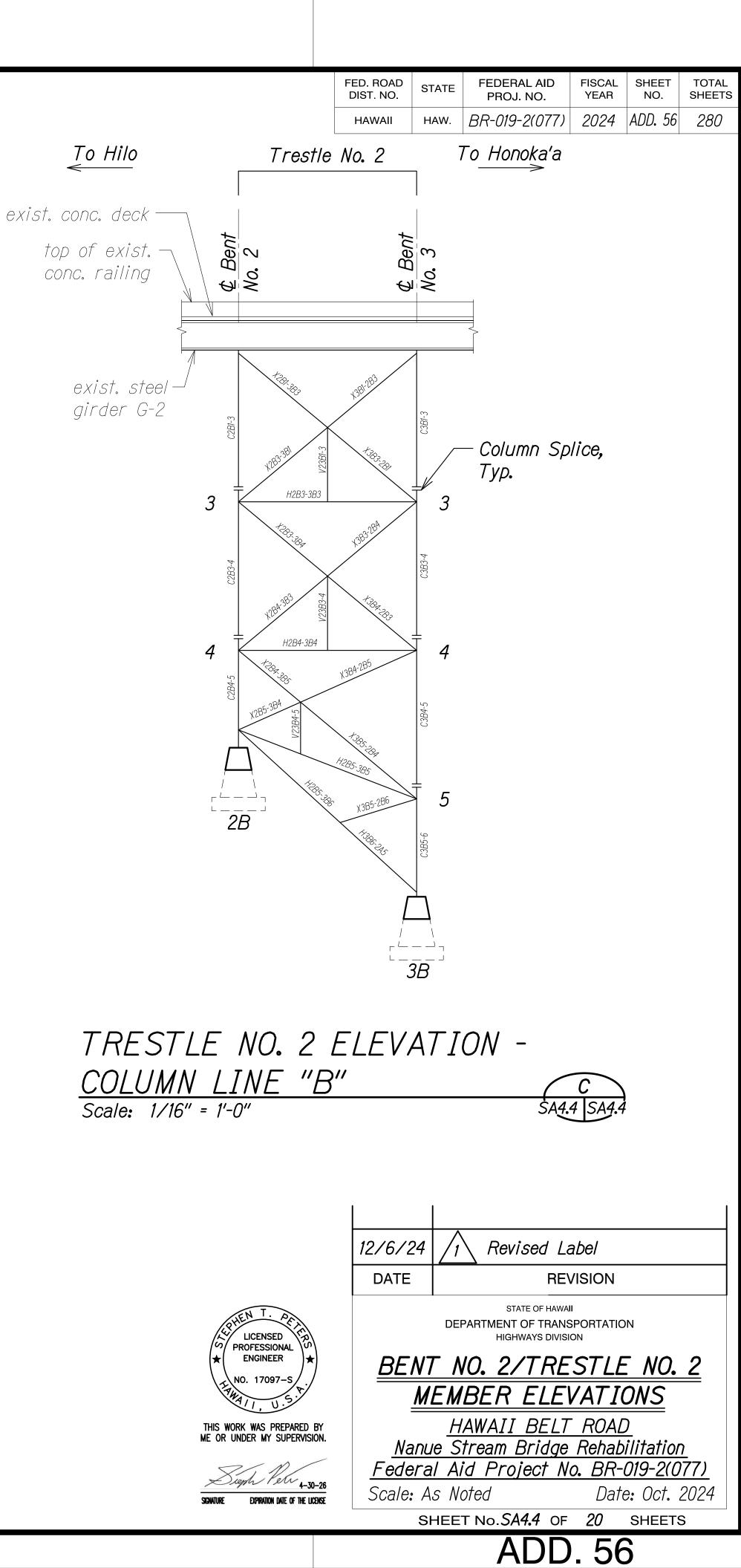


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	MEMBER ID	"A"	BATTEN PLATE SPACES		MEMBER ID	"A"	BATTEN PLATE SPACES
$\Box$	X1B1-C2	1'-6"	1 Eq. Spaces 1		X4B1-C2	1'-6"	1 Eq. Spaces 1
$\cdot$	X1C1-B2	1'-6"	1 Eq. Spaces		X4C1-B2	1'-6"	1 Eq. Spaces
	X1B2-C1	1'-6"	2 Eq. Spaces 1		X4B2-C1	1'-6"	2 Eq. Spaces /1
~   ~	X1C2-B1	1'-6"	2 Eq. Spaces		X4C2-B1	1'-6"	2 Eq. Spaces
	X1B2-C3	1'-6"	4 Eq. Spaces		X4B2-C3	1'-6"	3 Eq. Spaces
ר ר	X1C2-B3	1'-6"	4 Eq. Spaces		X4C2-B3	1'-6"	3 Eq. Spaces
	X1B3-C2	1'-6"	9 Eq. Spaces	4	X4B3-C2	1'-6"	6 Eq. Spaces
	X1C3-B2	1'-6"	9 Eq. Spaces	), 4	X4C3-B2	1'-6"	6 Eq. Spaces
	·			NO.	X4B3-C4	1'-6"	6 Eq. Spaces
	X2B1-C2	1'-6"	1 Eq. Spaces 1	LN	X4C3-B4	1'-6"	6 Eq. Spaces
	X2C1-B2	1'-6"	1 Eq. Spaces	BE/	X4B4-C3	1'-6"	11 Eq. Spaces
	X2B2-C1	1'-6"	2 Eq. Spaces 1		X4C4-B3	1'-6"	11 Eq. Spaces
	X2C2-B1	1'-6"	2 Eq. Spaces		X4B4-C5	1'-6"	9 Eq. Spaces
	X2B2-C3	1'-6"	3 Eq. Spaces		X4C4-B5	1'-6"	9 Eq. Spaces
٦Г	X2C2-B3	1'-6"	3 Eq. Spaces		X4B5-C4	1'-6"	12 Eq. Spaces
•	X2B3-C2	1'-6"	6 Eq. Spaces		X4C5-B4	1'-6"	12 Eq. Spaces
	X2C3-B2	1'-6"	6 Eq. Spaces		X4B5-C6	1'-6"	11 Eq. Spaces
<b>`</b>	X2B3-C4	1'-6"	6 Eq. Spaces		X4C5-B6	1'-6"	11 Eq. Spaces
]     	X2C3-B4	1'-6"	6 Eq. Spaces		X4B6-C5	1'-6"	14 Eq. Spaces
ו	X2B4-C3	1'-6"	11 Eq. Spaces		X4C6-B5	1'-6"	14 Eq. Spaces
	X2C4-B3	1'-6"	11 Eq. Spaces				
	X2B4-C5	1'-6"	7 Eq. Spaces		X5B1-C2	1'-6"	1 Eq. Spaces /1
	X2C4-B5	1'-6"	7 Eq. Spaces		X5C1-B2	1'-6"	1 Eq. Spaces
	X2B5-C4	1'-6"	10 Eq. Spaces		X5B2-C1	1'-6"	2 Eq. Spaces /1
	X2C5-B4	1'-6"	10 Eq. Spaces		X5C2-B1	1'-6"	2 Eq. Spaces
					X5B2-C3	1'-6"	3 Eq. Spaces
	X3B1-C2	1'-6"	1 Eq. Spaces /1		X5C2-B3	1'-6"	3 Eq. Spaces
	X3C1-B2	1'-6"	1 Eq. Spaces		X5B3-C2	1'-6"	6 Eq. Spaces
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	X3C2-B1	1'-6"	2 Eq. Spaces	NO.	X5B3-C4	1'-6"	6 Eq. Spaces
	X3B2-C3	1'-6"	3 Eq. Spaces		X5C3-B4	1'-6"	6 Eq. Spaces
	X3C2-B3	1′-6″	3 Eq. Spaces	N	X5B4-C3	1'-6"	11 Eq. Spaces
	X3B3-C2	1'-6"	6 Eq. Spaces	BE	X4C4-B3	1'-6"	11 Eq. Spaces
∖∟	X3C3-B2	1'-6"	6 Eq. Spaces		X5B4-C5	1'-6"	9 Eq. Spaces
	X3B3-C4	1'-6"	6 Eq. Spaces		X5C4-B5	1'-6"	9 Eq. Spaces
	X3C3-B4	1'-6"	6 Eq. Spaces		X5B5-C4	1'-6"	12 Eq. Spaces
<u>&gt;</u>  -	X3B4-C3	1'-6"	11 Eq. Spaces		X5C5-B4	1'-6"	12 Eq. Spaces
	X3C4-B3	1'-6"	11 Eq. Spaces		X5B5-C6	1'-6"	11 Eq. Spaces
<b>'</b>	X3B4-C5	1'-6"	9 Eq. Spaces		X5C5-B6	1'-6"	11 Eq. Spaces
	X3C4-B5	1'-6"	9 Eq. Spaces		X5B6-C5	1'-6"	14 Eq. Spaces
	X3B5-C4	1'-6"	12 Eq. Spaces		X5C6-B5	1'-6"	14 Eq. Spaces
	X3C5-B4	1'-6"	12 Eq. Spaces				
	X3B4-C6	1'-6"	10 Eq. Spaces				
	X3C5-B6	1'-6"	10 Eq. Spaces				
	X3B6-C5	1'-6"	12 Eq. Spaces				

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12/6/24 Revised Table Value REVISION DATE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION Contraction of the second sec DIAGONAL BRACE SCHEDULE HUND. 17097-S. <u>HAWAII BELT ROAD</u> <u>Nanue Stream Bridge Rehabilitation</u> Federal Aid Project No. BR-019-2(077) THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signature Expiration date of the license Date: Oct. 2024 Scale: As Noted SHEET NO.SA5.13 OF 34 SHEETS ADD. 85

	MEMBER ID	"A"	BATTEN PLATE SPACES
F	X6B1-C2	1'-6"	1 Eq. Spaces
_	X6C1-B2	1'-6"	1 Eq. Spaces
	X6B2-C1	1'-6"	2 Eq. Spaces
	X6C2-B1	1'-6"	2 Eq. Spaces
	X6B2-C3	1'-6"	3 Eq. Spaces
	X6C2-B3	1'-6"	3 Eq. Spaces
9	X6B3-C2	1'-6"	6 Eq. Spaces
	X6C3-B2	1'-6"	6 Eq. Spaces
NO.	X6B3-C4	1'-6"	6 Eq. Spaces
	X6C3-B4	1'-6''	6 Eq. Spaces
BENT	X6B4-C3	1'-6"	11 Eq. Spaces
	X6C4-B3	1'-6"	11 Eq. Spaces
	X6B4-C5	1'-6"	9 Eq. Spaces
	X6C4-B5	1'-6"	9 Eq. Spaces
	X6B5-C4	1'-6"	12 Eq. Spaces
	X6C5-B4	1'-6"	12 Eq. Spaces
	X6B5-C6	1'-6"	11 Eq. Spaces
	X6C5-B6	1'-6"	11 Eq. Spaces
_	X6B6-C5	1'-6"	14 Eq. Spaces
	X6C6-B5	1'-6"	14 Eq. Spaces
	X7B1-C2	1'-6"	1 Eq. Spaces
	X7C1-B2	1'-6"	1 Eq. Spaces
	X7B2-C1	1'-6"	2 Eq. Spaces
	X7C2-B1	1'-6"	2 Eq. Spaces
	X7B2-C3	1'-6"	3 Eq. Spaces
	Х7С2-ВЗ	1'-6"	3 Eq. Spaces
	X7B3-C2	1'-6"	6 Eq. Spaces
$\sim$	Х7С3-В2	1'-6"	6 Eq. Spaces
NO.	X7B3-C4	1'-6"	6 Eq. Spaces
	X7C3-B4	1'-6"	6 Eq. Spaces
BENT	X7B4-C3	1'-6"	11 Eq. Spaces
ШН	X7C4-B3	1'-6"	11 Eq. Spaces
	X7B4-C5	1'-6"	9 Eq. Spaces
_	X7C4-B5	1'-6"	9 Eq. Spaces
_	X7B5-C4	1'-6"	12 Eq. Spaces
_	X7C5-B4	1'-6"	12 Eq. Spaces
-	X7B5-C6	1'-6"	11 Eq. Spaces
-	X7C5-B6	1'-6"	11 Eq. Spaces
-	X7B6-C5 X7C6-B5	1'-6" 1'-6"	14 Eq. Spaces 14 Eq. Spaces

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paces /1		8	X8B2-C1	1'-6"	2 Eq. Spaces /1
Daces			X8C2-B1	1'-6"	2 Eq. Spaces
Daces		NO.	X8B2-C3	1'-6"	3 Eq. Spaces
Daces		$\geq$	X8C2-B3	1'-6"	3 Eq. Spaces
Daces		BENT	X8B3-C2	1'-6"	6 Eq. Spaces
Daces			X8C3-B2	1'-6"	6 Eq. Spaces
Daces			X8B3-C4	1'-6"	6 Eq. Spaces
Daces			X8C3-B4	1'-6"	6 Eq. Spaces
Daces		ĺ	X8B4-C3	1'-6"	11 Eq. Spaces
Daces			C8C4-B3	1'-6"	11 Eq. Spaces
Daces					۵
Daces			X9B1-C2	1'-6"	1 Eq. Spaces /1
paces		0	X9C1-B2	1'-6"	1 Eq. Spaces
paces			X9B2-C1	1'-6"	2 Eq. Spaces /1
Daces		BENT NO.	X9C2-B1	1'-6"	2 Eq. Spaces
Daces			X9B2-C3	1'-6"	4 Eq. Spaces
paces			X9C2-B3	1'-6"	4 Eq. Spaces
paces			X9B3-C2	1'-6"	7 Eq. Spaces
			X9C3-B2	1'-6"	7 Eq. Spaces

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 86	280

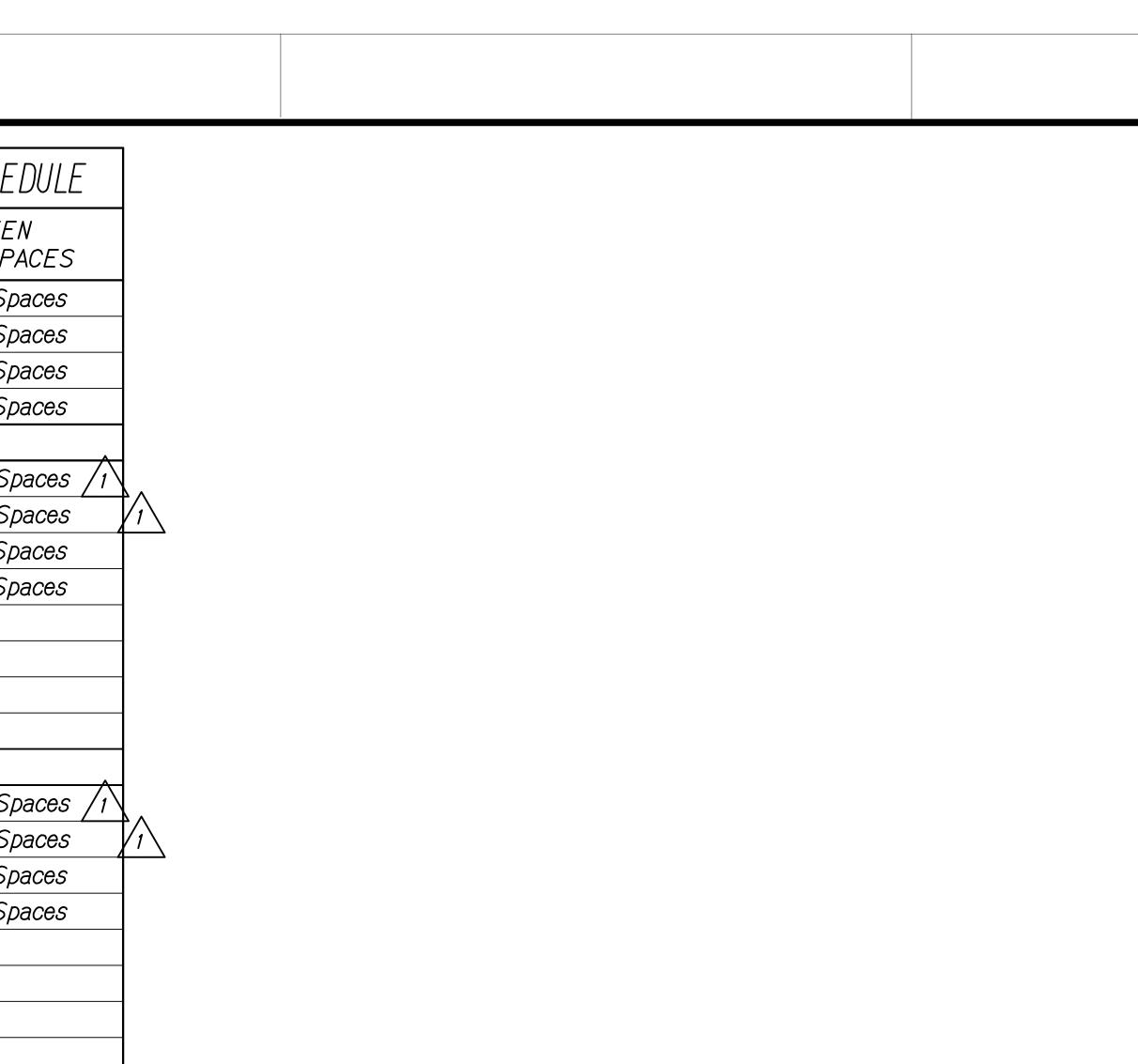
	12/6/24	1 Revised Table Value						
	DATE	REVISION						
CONTRACTOR		STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION						
★ ENGINEER ★ THO. 17097-S . THAT I, U.S. P.	DIAGO	DIAGONAL BRACE SCHEDULE						
THIS WORK WAS PREPARED E ME OR UNDER MY SUPERVISIO		<u>HAWAII BELT ROAD</u> The Stream Bridge Rehabilitation						
Signal Polar	Federa	I Aid Project No. BR-019-2(077)						
SIGNATURE EXPIRATION DATE OF THE LICI	scale: A	s Noted Date: Oct. 2024						
	SI	HEET NO. SA5.14 OF 34 SHEETS						
		ADD. 86						

B	ENT LOWER II	NTERIOR DIAGONAL I	BRACE SCHE
). 4	MEMBER ID	"A"	BATTE PLATE SF
NO.	X4B6-C7	1'-6"	14 Eq. S
BENT	X4C6-B7	1'-6"	14 Eq. S
Ē	X4B7-C6	1'-6"	18 Eq. S
	X4C7-B6	1'-6"	18 Eq. Sp
		1	
	X5B6-C7	1'-6"	20 Eq. S
5	X5C6-B7	1'-6"	20 Eq. S
NO.	X5B8-C7	1'-6"	18 Eq. S
	X5C8-B7	1'-6"	18 Eq. Sp
SENT			
B			
	<i>X6B6-C7</i>	1'-6"	20 Eq. S
9	<i>X6C6-B</i> 7	1'-6"	20 Eq. S
C.	<i>X6B8-C7</i>	1'-6"	18 Eq. Sp
BENT NO.	X6C8-B7	1'-6"	18 Eq. Sp
BEN			

· 7.) ON ANTOINIA 32 022 A NAMINE STD DD DE2-DATHAN 12-DE-24 ADH2ANSP-SAD512 NAC BRACE NTIS ADH2AWC DIATIME: 12-D3-24 10:02

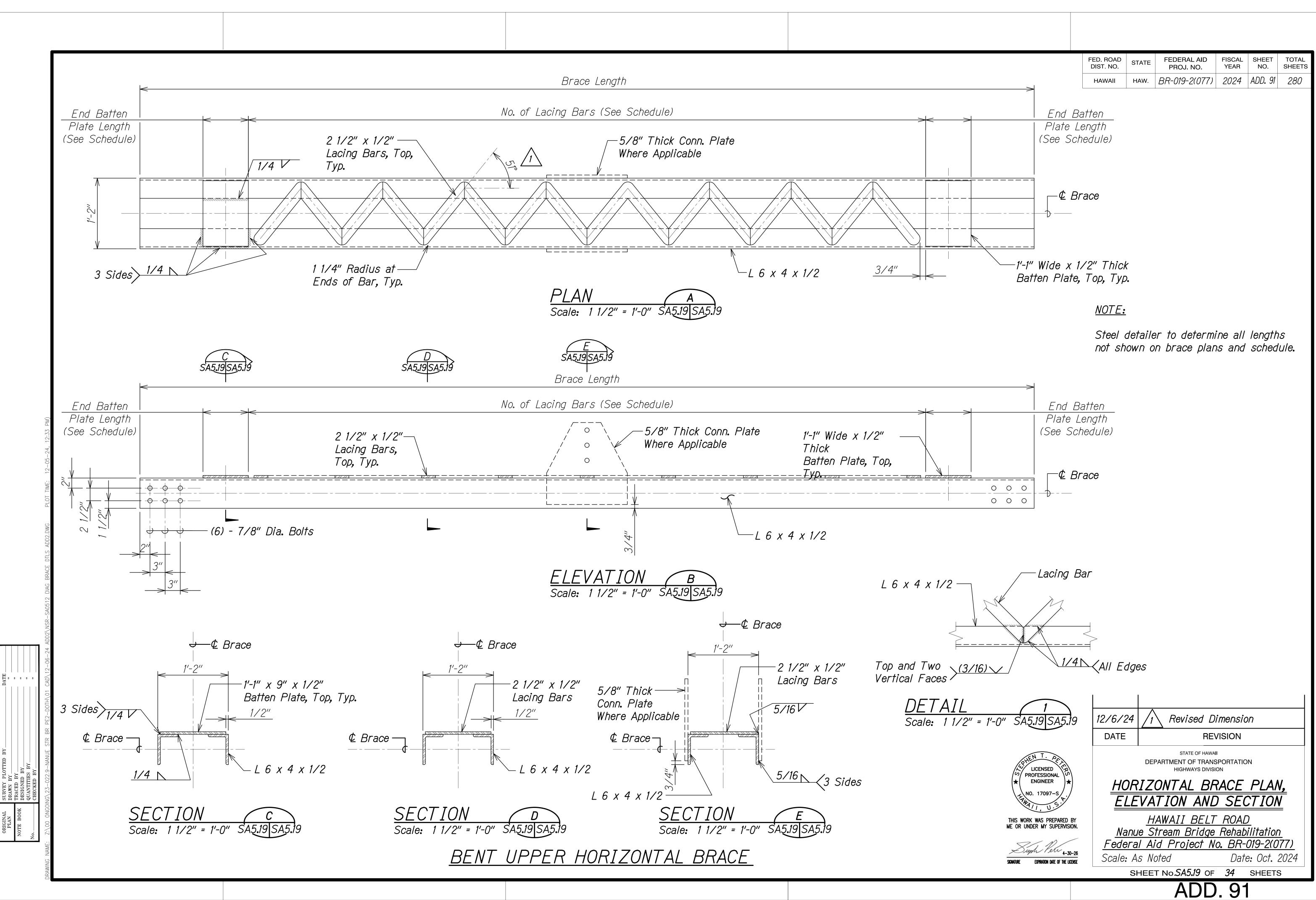
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 88	280

	12/6/24	1 Revised Table Value					
	DATE	REVISION					
CONTROPOSIONAL CONTROPOSIONAL		STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION					
★ ENGINEER ★ TNO. 17097-S . TTNA 11, U.S.	DIAGO	DIAGONAL BRACE SCHEDULE					
THIS WORK WAS PREPARED ME OR UNDER MY SUPERVISIO	ON	<u>HAWAII BELT ROAD</u> e Stream Bridge Rehabilitation					
Sind Peter		I Aid Project No. BR-019-2(077)					
SIGNATURE EXPIRATION DATE OF THE LIC	nse Scale: A	s Noted Date: Oct. 2024					
	SI	HEET NO. <i>SA5.16</i> OF <i>34</i> SHEETS					
		ADD. 88					



			BENT
	MEMBER ID	End Batten Plate Length	No. of Lacing Bars
	HIA-BI	0'-10''	4
NO.	H1B-C1	0'-9"	2 /1
$\mathbf{F}$	H1C-D1	0'-10''	4
BENT	H1A-B2	0'-10''	4
	H1B-C2	1'-5" /1	4 /1
	H1C-D2	0'-10"	4
	H2A-B1	0'-10"	4
	H2B-C1	0'-8" /1	2 /1
	H2C-D1	0'-10"	4
$\sim$	H2A-B2	0'-9" /1	6 /1
	H2B-C2	0'-10"	8
NO.	H2C-D2	0'-10''	4
	H2A-B3	0'-10''	4
BENT	H2B-C3	0'-8" /1	14 /1
	H2C-D3	0'-10''	4
	H2A-B4	0'-10''	4
	H2B-C4	0'-9" /1	26 /1
	H2C-D4	0'-10''	4
_	H3A-B1	0'-10"	4
_	H3B-C1	0'-9"	2 /1
-	H3C-D1	0'-10"	4
-	H3A-B2	0'-10"	4
$\infty$	H3B-C2	1'-5" /1	4 /1
	H3C-D2	0'-10"	4
NO.	H3A-B3	0'-10"	4
	H3B-C3	1'-3" /1	12 /1
BENT	H3C-D3	0'-10"	4
	H3A-B4	0'-10"	4
-	H3B-C4 H3C-D4	0'-10" /1 0'-10"	26 /1
-	H3A-B5	0'-10"	4
_	H3B-C5	1'-2" /1	38 /1
-	H3C-D5	0'-10"	4
		0 10	
	H4A-B1	0'-10''	4
	H4B-C1	0'-8" /1	2/1
4	H4C-D1	0'-10"	4
NO.	H4A-B2	0'-10"	4
	H4B-C2	0'-9" /1	6 /1
	H4C-D2	0'-10"	4
BEN	H4A-B3	0'-10"	4
F	H4B-C3	0'-8" /1	14 /1
F	H4C-D3	0'-10"	4

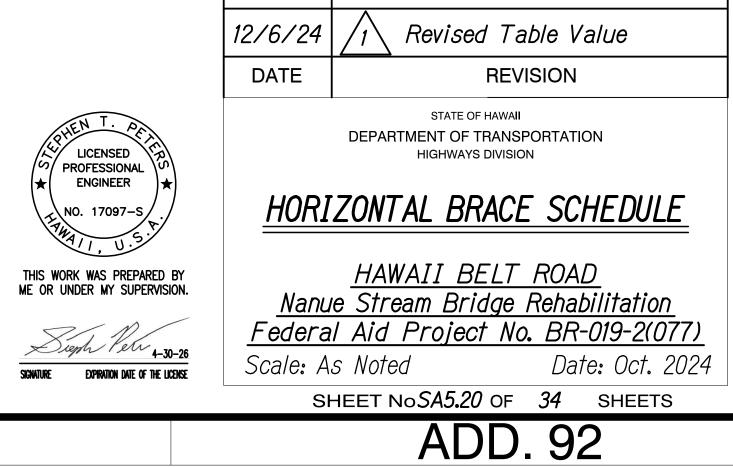
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UPPL	ER HORIZON	VTAL BRACE	SCHEDULE					FED. ROAD DIST. NO. HAWAII	SIAIL	FEDERAL AID PROJ. NO. <i>R-019-2(077)</i>	YEAR	NO. SI	HEETS
4	MEMBER ID	End Batten Plate Length	No. of Lacing Bars		MEMBER ID	End Batten Plate Length	No. of Lacing Bars						
		0'-10"	4		H7B-C3	1'-3" /1	12 /1	-					
NO.	H4B-C4	0'-9" /1	26 /1	NO.	H7C-D3	0'-10''	4						
	H4C-D4	0'-10"	4	Ĭ	H7A-B4	0'-10"	4	_					
BEI	H4A-B5	0'-10"	4		H7B-C4	0'-10" /1	26 /1	_					
	<u>П4В-СЭ</u>	1'-3" /1	38 /1	BE	H7C-D4	0'-10''	4	_					
	H4C-D5	0'-10''	4		H7A-B5	0'-10"	4	_					
					H7B-C5	0'-9"	40 /1	_					
	H5A-B1	0'-10"	4		H7C-D5	0'-10"	4	-					
	H5B-C1	0'-9"	2/1			0/ 10//		-					
	H5C-D1	0'-10"	4		H8A-B1	0'-10"	$\frac{4}{2}$	-					
	H5A-B2	0'-10"	4	$\infty$	H8B-C1	0'-8" /1	2 /1	-					
2	H5B-C2 H5C-D2	1'-5" <u>1</u> 0'-10"	4 /1 \ 4		H8C-D1 H8A-B2	0'-10"	4	-					
	H5C-D2 H5A-B3 /1	0'-10"	4	NO.	H8B-C2	0'-10" 0'-9" /1	$\frac{4}{6}$	-					
NO.	H5B-C3 /1	1'-3" 1	12 /1		H8C-D2	0'-10"	6 /1	-					
NT	H5C-D3 /1	0'-10"		BEI	H8A-B3	0'-10"	4	-					
BEI		0'-10"	4		H8B-C3	1'-2"	12/1	-					
	H5B-C4	0'-10"/1	26 /1		H8C-D3	0'-10"	4	-					
	H5C-D4	0'-10"	4		1100 20	0 10	,	-					
	H5A-B5	0'-10"	4	6	H9A-B1	0'-10''	4	-					
	H5B-C5	1'-5" /1	38 /1		H9B-C1	0'-9"	2/1	-					
	H5C-D5	0'-10"	4	NO.	H9C-D1	0'-10"	4	-					
					H9A-B2	0'-10"	4	-					
	H6A-B1	0'-10"	4	BEN	H9B-C2	1'-5" /1	4 /1						D. SHEET
	H6B-C1	0'-8" /1	2 /1		H9C-D2	0'-10"	4	_					
	H6C-D1	0'-10"	4		•								
	H6A-B2	0'-10''	4										
	H6B-C2	0'-9" /1	6 /1										
0		0'-10"	4										
NO.	H6A-B3	0'-10"	4										
	H6B-C3	0'-8" /1	14 /1										
	Н6С-D3	0'-10"	4										
BE		0'-10"	4										
	H6B-C4	0'-9" /1	26 /1										
	H6C-D4	0'-10"	4										
	H6A-B5	0'-10"	4										
	H6B-C5	1'-3" /1	38 /1	-				12/6/2	$24 \left  \int_{1} \right $	Revised 7	able Valu	0	
	H6C-D5	0'-10''	4					DATE		RF	VISION		

4	MEMBER ID	End Batten Plate Length	No. of Lacing Bars
і Г	H4A-B4	0'-10''	4
NO.	H4B-C4	0'-9" /1	26 /1
	H4C-D4	0'-10"	4
BENT	H4A-B5	0'-10''	4
B	H4B-C5	1'-3" /1	38 /1
	H4C-D5	0'-10"	4
I			
	H5A-B1	0'-10''	4
ŀ	H5B-C1	0'-9"	2/1
ŀ	H5C-D1	0'-10''	4
F	H5A-B2	0'-10''	4
F	H5B-C2	1'-5" /1	4 /1
5	H5C-D2	0'-10"	4
NO.	H5A-B3/1	0'-10"	4
	H5B-C3 /1	1'-3" /1	12 /1
BENT	H5C-D3/1	0'-10"	4
BE	H5A-B4 /1	0'-10"	4
	H5B-C4	0'-10" /1	26 /1
Ī	H5C-D4	0'-10''	4
	H5A-B5	0'-10''	4
	H5B-C5	1'-5" /1	38 /1
	H5C-D5	0'-10''	4
	H6A-B1	0'-10''	4
	H6B-C1	0'-8" /1	2 /1
	H6C-D1	0'-10''	4
	H6A-B2	0'-10"	4
	H6B-C2	0'-9" /1	6 /1
9	H6C-D2	0'-10''	4
NO.	H6A-B3	0'-10"	4
	H6B-C3	0'-8" /1	14 /1
BENT	Н6С-D3	0'-10"	4
B	H6A-B4	0'-10"	4
ļ	H6B-C4	0'-9" /1	26 /1
	H6C-D4	0'-10"	4
ļ	H6A-B5	0'-10"	4
ļ	H6B-C5	1'-3" /1	38 /1
	H6C-D5	0'-10''	4
r	<u></u>		
	H7A-B1	0'-10"	4
	H7B-C1	0'-9"	2/1
NO.	H7C-D1	0'-10"	4
	H7A-B2	0'-10"	4
BENT	H7B-C2	1'-5" /1	4 /1
	H7C-D2	0'-10"	4
	H7A-B3	0'-10''	4

				FED. ROAD DIST. NO. HAWAII	STATE HAW.	FEDERAL AID PROJ. NO. <i>BR-019-2(077)</i>	fiscal year 2024	SHEET NO. ADD. 92	totai sheet 280
	MEMBER ID	End Batten Plate Length	No. of Lacing Bars						
	Н7В-С3	1'-3" /1	12 /1	-					
	H7C-D3	0'-10"	4						
רי רי	H7A-B4	0'-10''	4						
$\mathbf{\hat{z}}$	H7B-C4	0'-10'' /1	26 /1						
	H7C-D4	0'-10''	4	_					
	H7A-B5	0'-10''	4	_					
	H7B-C5	0'-9''	40 /1						
	H7C-D5	0'-10''	4	-					
	H8A-B1	0'-10''	4	-					
	H8B-C1	0'-8" /1	2/1	-					
σ	H8C-D1	0'-10''	4	-					
2   	H8A-B2	0'-10''	4	-					
	H8B-C2	0'-9" /1	6 /1	-					
$\geq$	H8C-D2	0'-10''	4	-					
	H8A-B3	0'-10''	4	-					
	H8B-C3	1'-2"	12 /1	-					
	Н8С-D3	0'-10''	4						
				_					
ת _	H9A-B1	0'-10''	4	_					
	H9B-C1	0'-9"	2 /1	_					
< _	H9C-D1	0'-10''	4	_					
>	H9A-B2	0'-10"	4	_					
	H9B-C2	1'-5" /1	4 /1	_					
	H9C-D2	0'-10''	4						

				FED. ROAD DIST. NO. HAWAII	STATE HAW.	FEDERAL AID PROJ. NO. <i>BR-019-2(077)</i>	fiscal year 2024	SHEET NO. ADD. 92	totai sheet 280
	MEMBER ID	End Batten Plate Length	No. of Lacing Bars						
	Н7В-С3	1'-3" /1	12 /1	-					
	H7C-D3	0'-10"	4						
ຸດ ໄ	H7A-B4	0'-10''	4						
$\mathbf{\hat{z}}$	H7B-C4	0'-10'' /1	26 /1						
	H7C-D4	0'-10''	4	_					
	H7A-B5	0'-10''	4	_					
	H7B-C5	0'-9''	40 /1						
	H7C-D5	0'-10''	4	-					
	H8A-B1	0'-10''	4	-					
	H8B-C1	0'-8" /1	2/1	-					
σ	H8C-D1	0'-10''	4	-					
2   	H8A-B2	0'-10''	4	-					
	H8B-C2	0'-9" /1	6 /1	-					
$\geq$	H8C-D2	0'-10''	4	-					
	H8A-B3	0'-10''	4	-					
	H8B-C3	1'-2"	12 /1	-					
	Н8С-D3	0'-10''	4						
				_					
ת _	H9A-B1	0'-10''	4	_					
	H9B-C1	0'-9"	2 /1	_					
< _	H9C-D1	0'-10''	4	_					
>	H9A-B2	0'-10"	4	_					
	H9B-C2	1'-5" /1	4 /1	_					
	H9C-D2	0'-10''	4						



BENT I MEMBER ID	End Batten Plate Length	No. of Lacing Bars		MEMBER ID	End Batten Plate Length	No. of Lacing Bars
H1A-B3	0'-8"	4		H6A-B6	0'-8"	4
H1B-C3	1'-4" /1	16		H6B-C6	1'-1" /1	22
H1C-D3	0'-8"	4	9	H6C-B6	1'-1'' 1	22
			1 1 7	H6C-D6	0'-8"	4
			NO.	H6A-B7	0'-8"	4
				H6B-C7	1'-5" /1	28
	I I		BEN	H6C-B7	1'-5"	28
H2A-B5	0'-8"	4		H6C-D7	0'-8"	4
H2B-C5	1'-6" /1	34		H6A-B8	0'-8"	4
H2C-D5	0'-8"	4		H6B-C8	0'-11''	34 /1
				H6C-B8	0'-11''	34
				H6C-D8	0'-8"	4
				H7A-B6	0'-8"	4
H3A-B6	0'-8"	4	1	H7B-C6	1'-2" /1	22
НЗВ-С6	0'-9" /1	22 /1	NO.	H7C-B6	1'-2" 1	22
H3C-B6	0'-9" /1	22 /1		H7C-D6	0'-8"	4
H3C-D6	0'-8"	4				
				·	·	
			$\infty$	H8A-B4	0'-8"	4
H4A-B6	0'-8"	4	NO.	H8B-C4	1'-2" /1	26
H4B-C6	1'-3" /1	22	Š	H8C-D4	0'-8"	4
H4C-B6	1'-3" /1	22				
H4C-D6	0'-8"	4	BE/			
H4A-B7	0'-8"	4				
H4B-C7	1'-5" /1	30				
H4C-B7	1'-5" /1	30		H9A-B3	0'-8"	4
H4C-D7	0'-8"	4	6	H9B-C3	1'-4" /1	14
	r		NO.	Н9С-D3	0'-8"	4
H5A-B6	0'-8"	4				
H5B-C6	1'-2" /1	22				
H5C-B6	<u>1'-2'' /1</u>	22	BE			
H5C-D6	0'-8"	4				
H5A-B7	0'-8"	4				
H5B-C7	1'-3" /1	28				
H5C-B7	1'-3" /1	28				
H5C-D7	0'-8"	4				
H5A-B8	0'-8"	4				
H5B-C8	1'-5" /1	32				
H5C-B8	1'-5" /1	32				
H5C-D8	0'-8"	4				

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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 94	280

	12/6/24	Revised Table Value
	DATE	REVISION
CHEN T. OF THE LICENSED		STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
★ ENGINEER ★ HNO. 17097-S	<u>HORI</u>	ZONTAL BRACE SCHEDULE
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	Nanu	<u>HAWAII BELT ROAD</u> e Stream Bridge Rehabilitation
Sind Palar	Federa	I Aid Project No. BR-019-2(077)
SIGNATURE EXPIRATION DATE OF THE LICENSE	Scale: A	s Noted Date: Oct. 2024
	SI	HEET No <i>SA5.22</i> OF <i>34</i> SHEETS
		ADD. 94

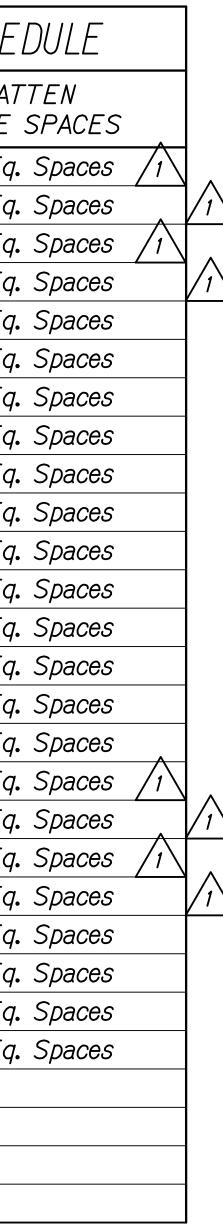
	TRESTLE N	0. 5 DIAGONAL BRA	ACE SCHE
	MEMBER ID	"A"	BA7 PLATE
	X8A1-9A3	1'-6"	12 Eq.
	X8B1-9B3	1'-6"	12 Eq.
	X8C1-9C3	1'-6"	12 Eq.
	X8D1-9D3	1'-6''	12 Eq.
	X9A1-8A3	1'-6''	12 Eq.
	X9B1-8B3	1'-6"	12 Eq.
	X9C1-8C3	1'-6"	12 Eq.
	X9D1-8D3	1'-6"	12 Eq.
	X8A3-9A1	1'-6''	10 Eq.
5	X8B3-9B1	1'-6"	10 Eq.
	X8C3-9C1	1'-6"	10 Eq.
NC.	X8D3-9D1	1'-6"	10 Eq.
ᆈᆸ	X9A3-8A1	1'-6"	12 Eq.
	X9B3-8B1	1'-6"	12 Eq.
$\mathcal{N}$	X9C3-8C1	1'-6"	12 Eq.
I RESTLE	X9D3-8D1	1'-6"	12 Eq.
	X8A4-9A3	1'-6"	12 Eq.
	X8B4-9B3	1'-6"	12 Eq.
	X8C4-9C3	1'-6"	12 Eq.
	X8D4-9D3	1'-6"	12 Eq.
	X9A3-8A4	1'-6"	12 Eq.
	X9B3-8B4	1'-6"	12 Eq.
	X9C3-8C4	1'-6"	12 Eq.
	X9D3-8D4	1'-6"	12 Eq.

SURVEY PLOTTE DRAWN BY\_\_\_\_\_\_ TRACED BY\_\_\_\_\_\_ DESIGNED BY\_\_\_\_\_ QUANTITIES BY\_\_\_\_ CHECKED BY\_\_\_\_\_

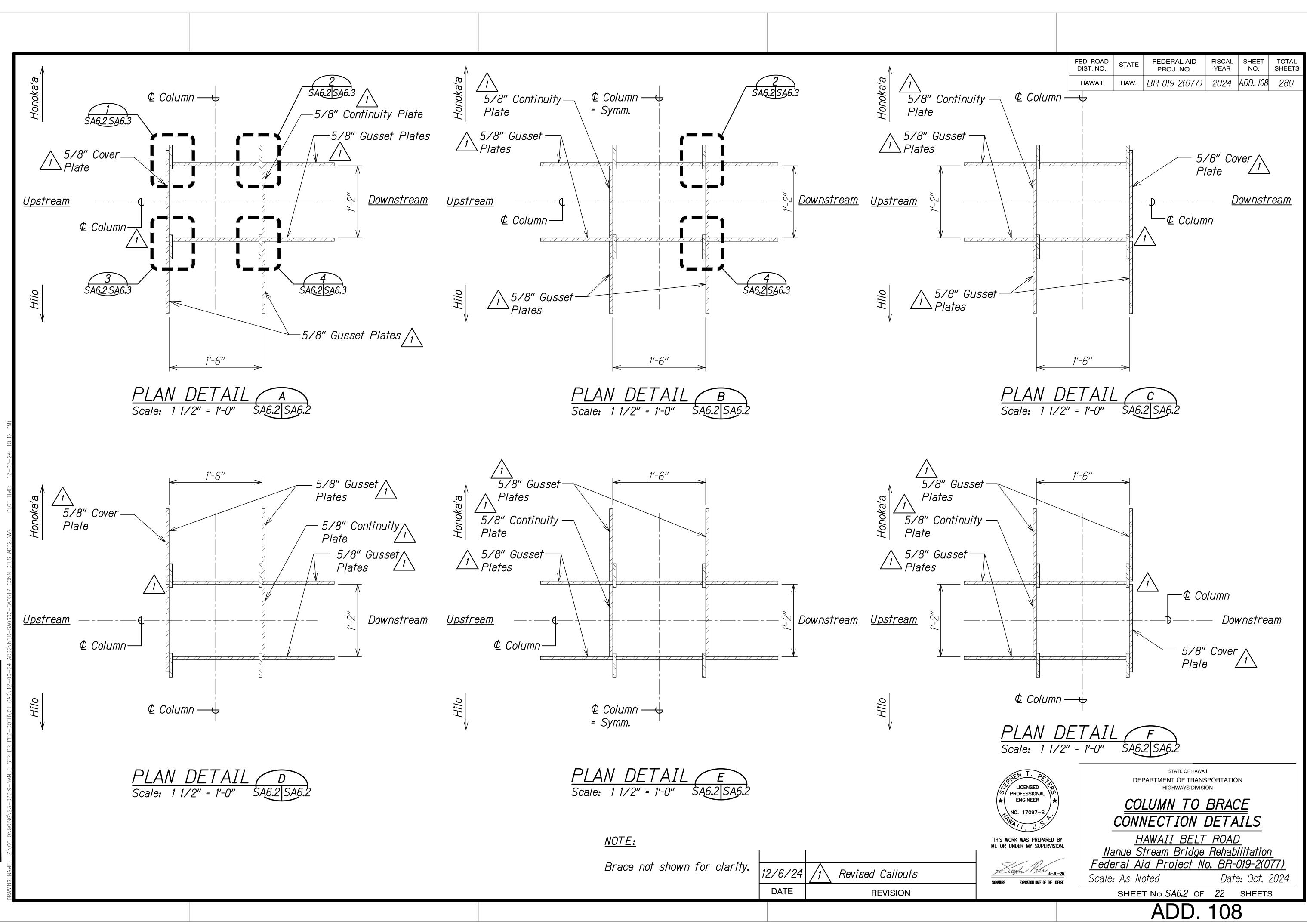
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET	TOTAL SHEETS
DIST. NO.					
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 99	9 280
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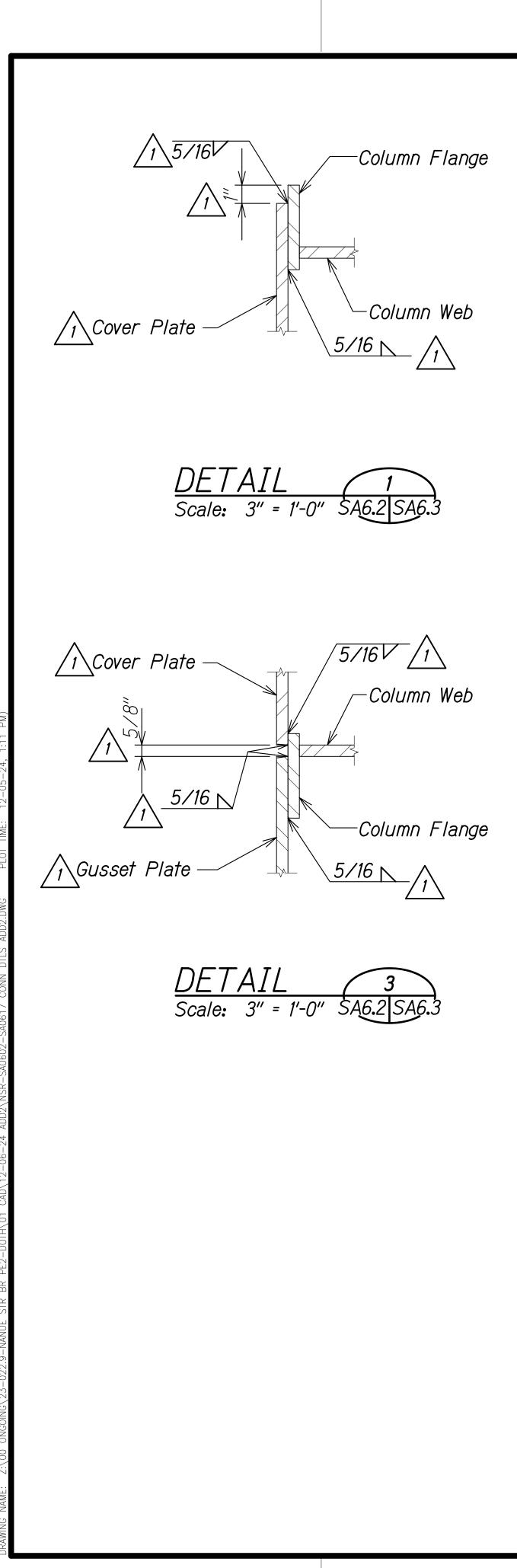
12/6/24 Revised Table Value REVISION DATE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION A UICENSED PROFESSIONAL ★ ENGINEER DIAGONAL BRACE SCHEDULE HNO. 17097-S <u>HAWAII BELT ROAD</u> <u>Nanue Stream Bridge Rehabilitation</u> Federal Aid Project No. BR-019-2(077) THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. SIGNATURE EXPIRATION DATE OF THE LICENSE Date: Oct. 2024 Scale: As Noted SHEET No SA5.27 OF 34 SHEETS ADD. 99



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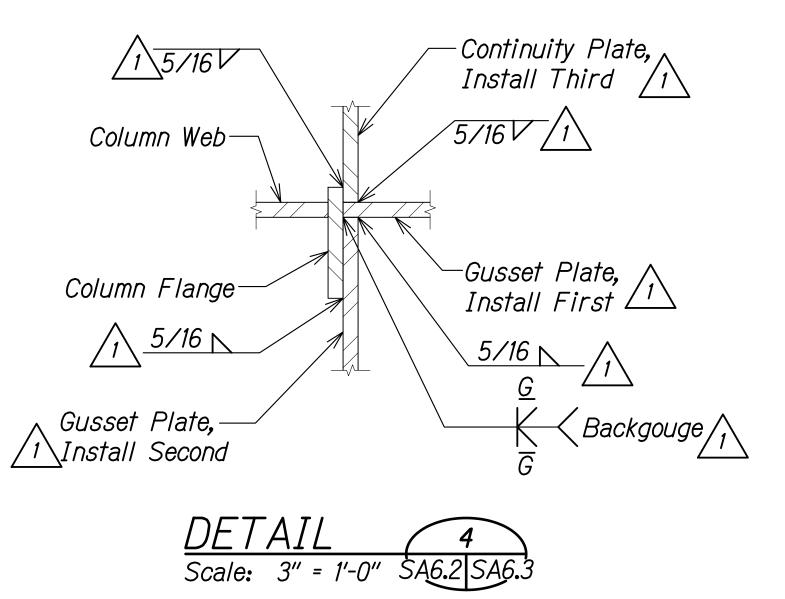
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<u>G</u>  $\overline{\langle}$  Backgouge  $\Lambda$ 5/16 Column Flange--Gusset Plate, // Install First // 5/16 N Column Web- $\int \frac{5/16}{10}$ 

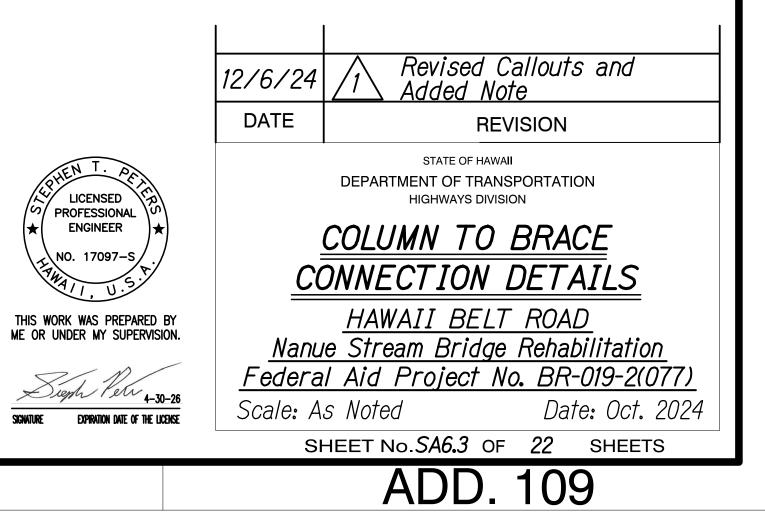
-Continuity Plate, Install Second 1

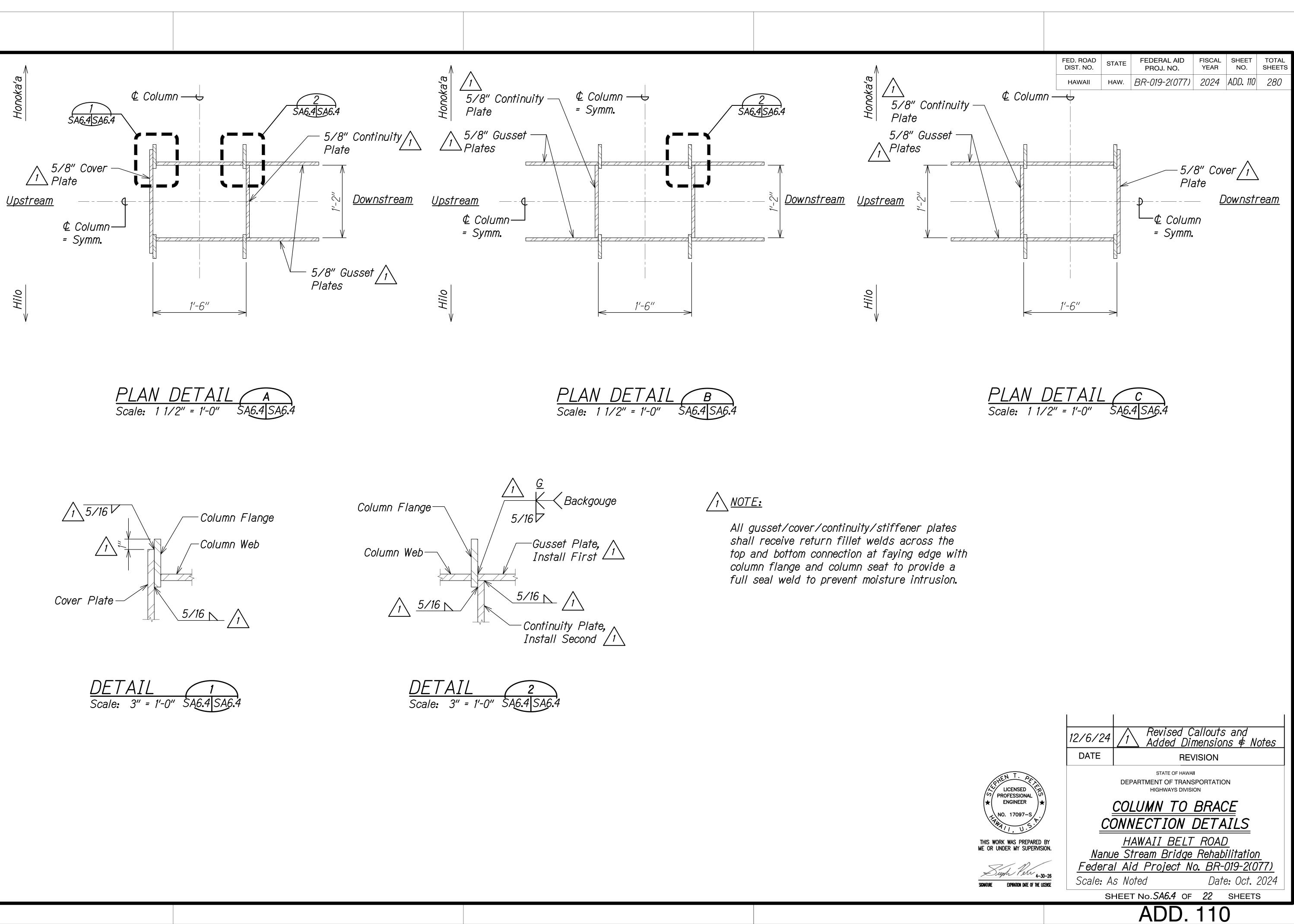
All gusset/cover/continuity/stiffener plates shall receive return fillet welds across the top and bottom connection at faying edge with column flange and column seat to provide a full seal weld to prevent moisture intrusion.

<u>DETAIL</u> Scale: 3" = 1'-0" SA6.2 SA6.3



FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 109	280



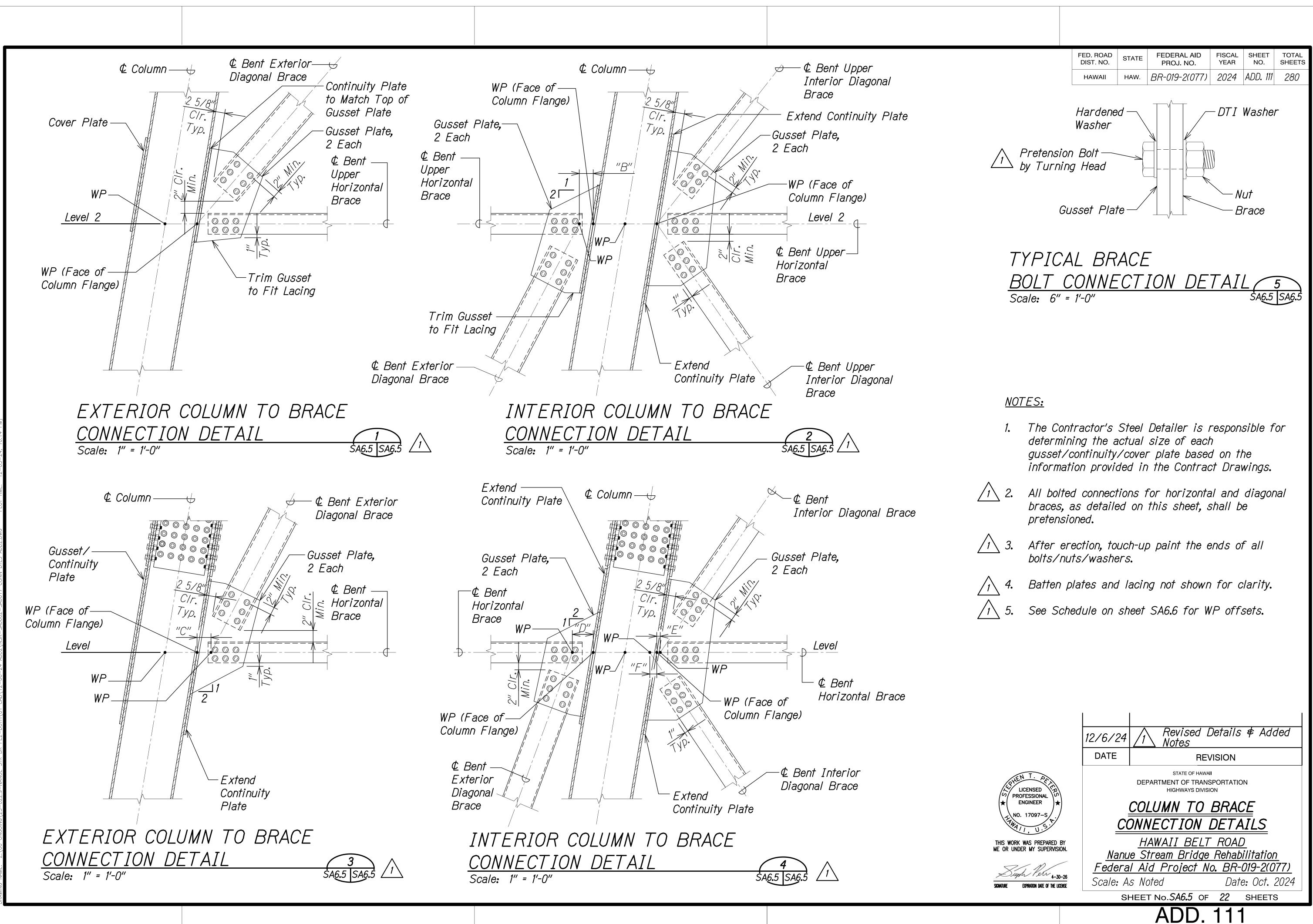


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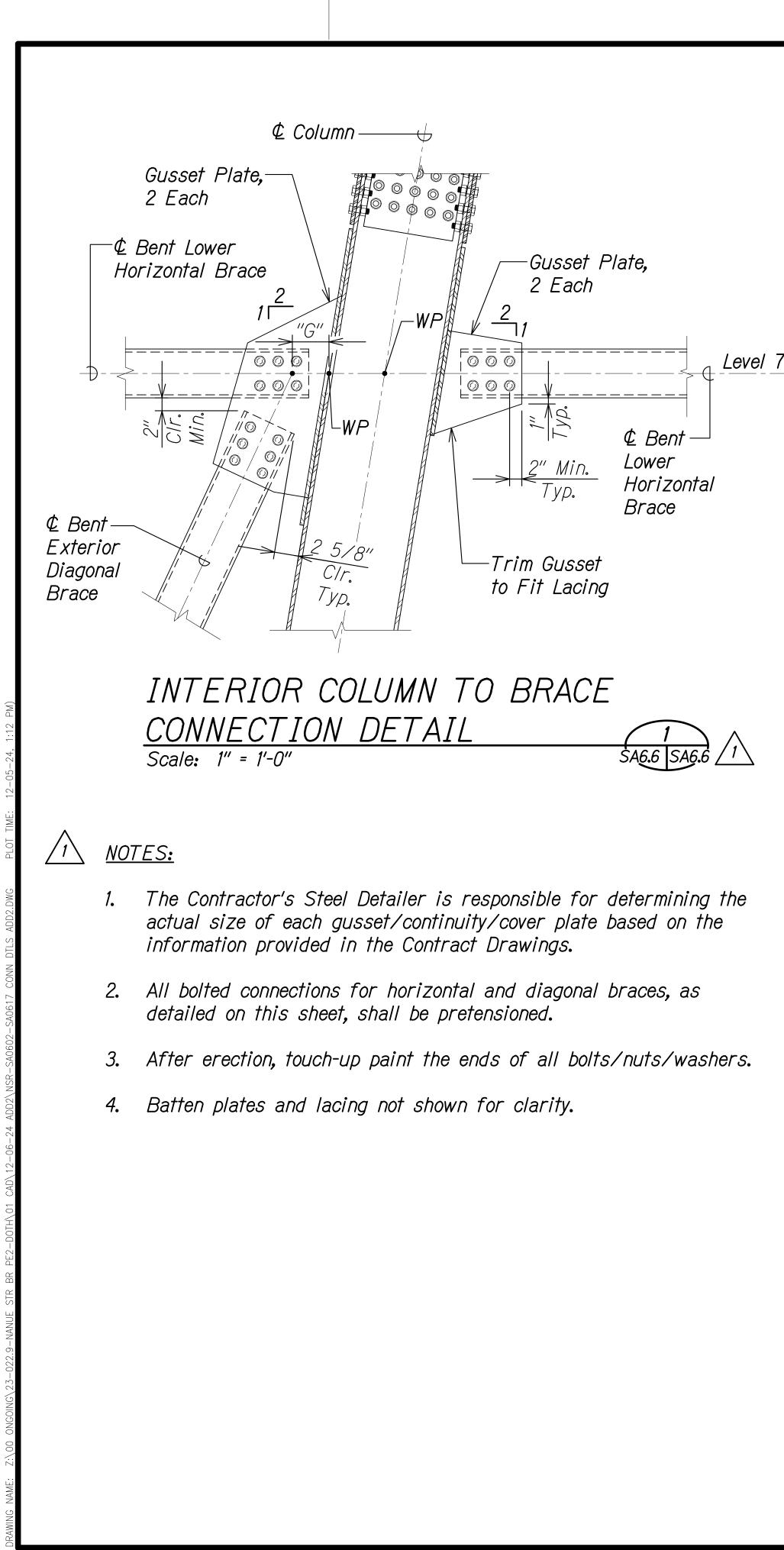
DRA DRA DES QUA

ORIGINA PLAN NOTE BO



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DR. DE QU

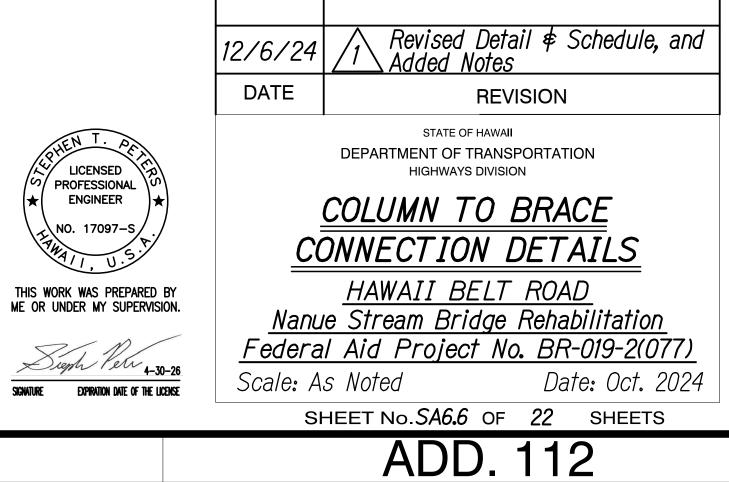


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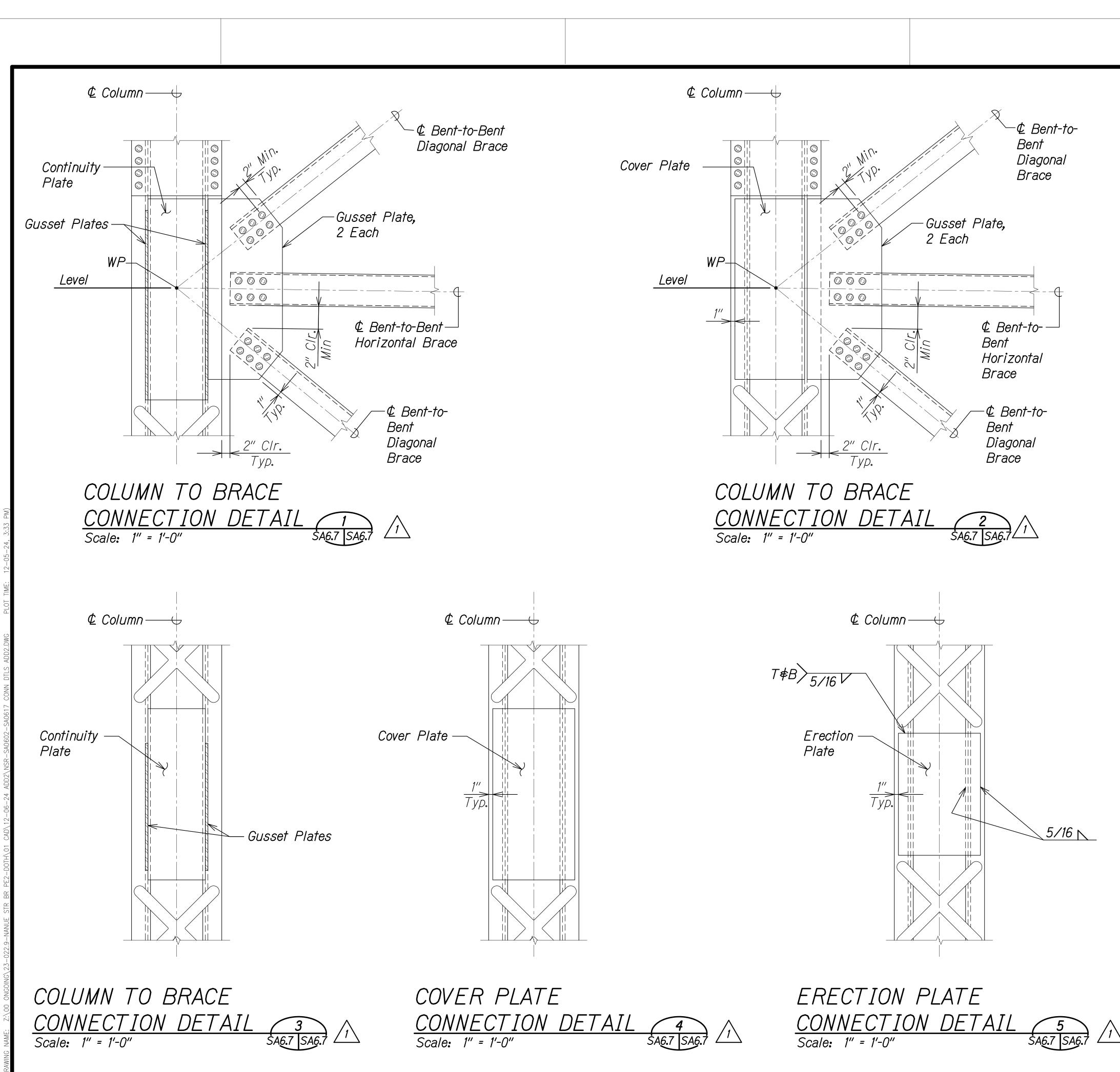
DRAV DRAV TRAC DESI QUAN CHE(C

JRIGINA PLAN NOTE BOC No.-

									FED. ROAD DIST. NO. HAWAII	STATE HAW.	FEDERAL AID PROJ. NO. <i>BR-019-2(077)</i>	FISCAL YEAR	SHEET NO. ADD. 112	TOTAL SHEETS
							$\underline{\land}$				BIT OIS ZOITT	2021		
			WP OFF	SET SCHE	DULE									
		LOCATION	"B"	"C"	"D"	"E"	"F"	"G"						
ate,		Bent Nos. 1 ¢ 9	6″	-	-	-	-	-						
<i>Level</i> 7	Level 2	Bent Nos. 2, 3, 4, 5, 6, 7, ∉ 8	4″	-	-	-	-	-						
© Bent — Lower	Level 3	Bent Nos. 2, 3, 4, 5, 6, 7, ¢ 8	_	4″	6″	1″	0"	_						
Horizontal Brace	Level 4	Bent Nos. 2, 3, 4, 5, 6, ¢ 7	_	6″	6″	3″	0"	-						
	Level 5	Bent Nos. 3, 4, 5, 6, ∉ 7	_	6″	6″	0″	8″	_						
		Bent No. 4	-	6"	6"	-5″	8"	-						
1 SA6.6 SA6.6 1	Level 6	Bent Nos. 5 ∉ 6	-	6″	6″	-5″	2"	-						
	Level 7	Bent Nos. 5, \$ 6	-	6"	-	-	-	6"						



LICENSED PROFESSIONAL NO. 17097−S/

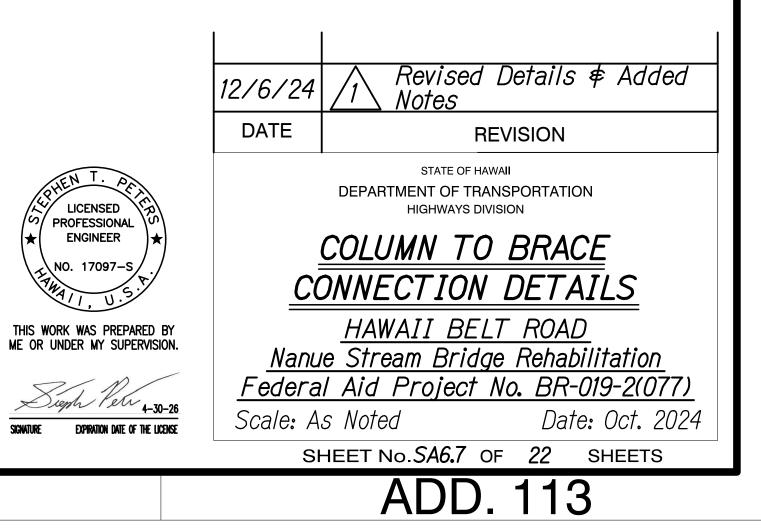


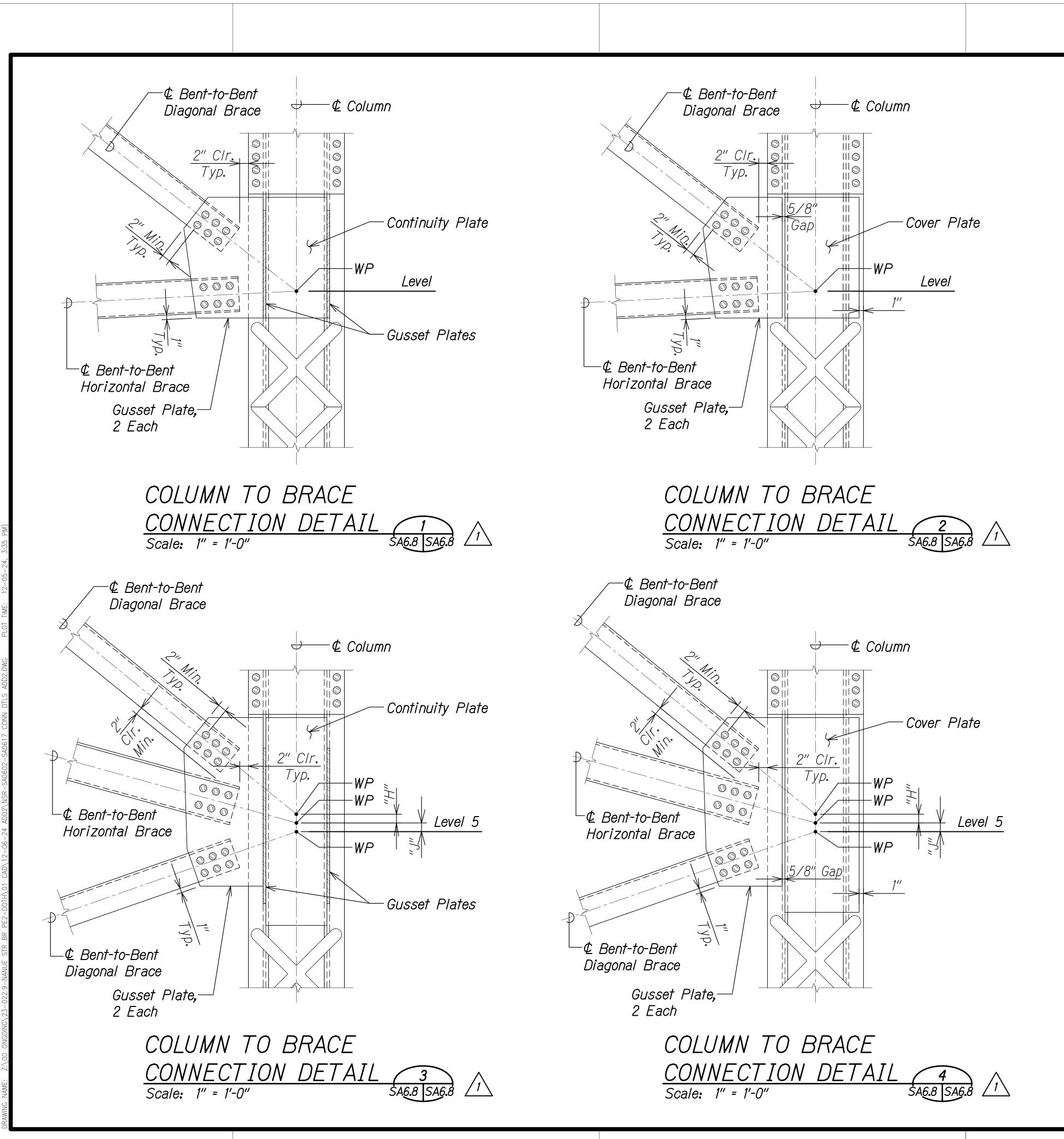
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 113	280

 $\bigwedge$ <u>NOTES:</u>

- 1. The Contractor's Steel Detailer is responsible for determining the actual size of each gusset/continuity/cover plate based on the information provided in the Contract Drawings.
- 2. All bolted connections for horizontal and diagonal braces, as detailed on this sheet, shall be pretensioned.
- 3. After erection, touch-up paint the ends of all bolts/nuts/washers.
- 4. Batten plates and lacing on braces not shown for clarity.





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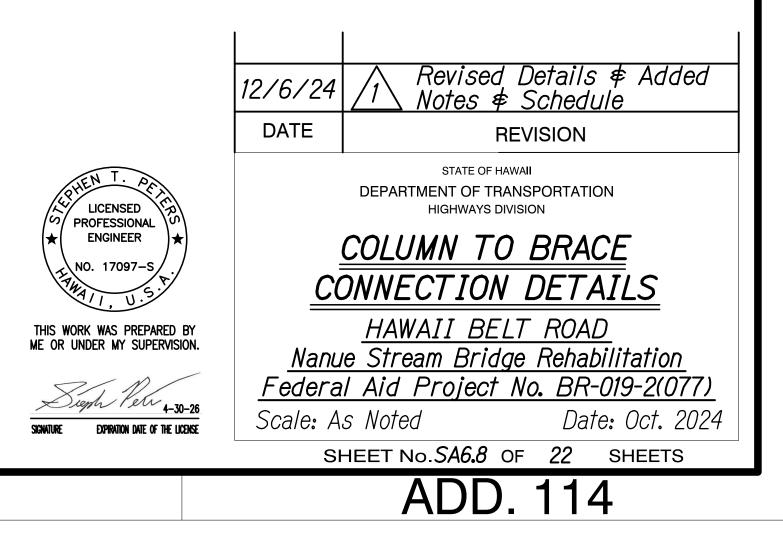
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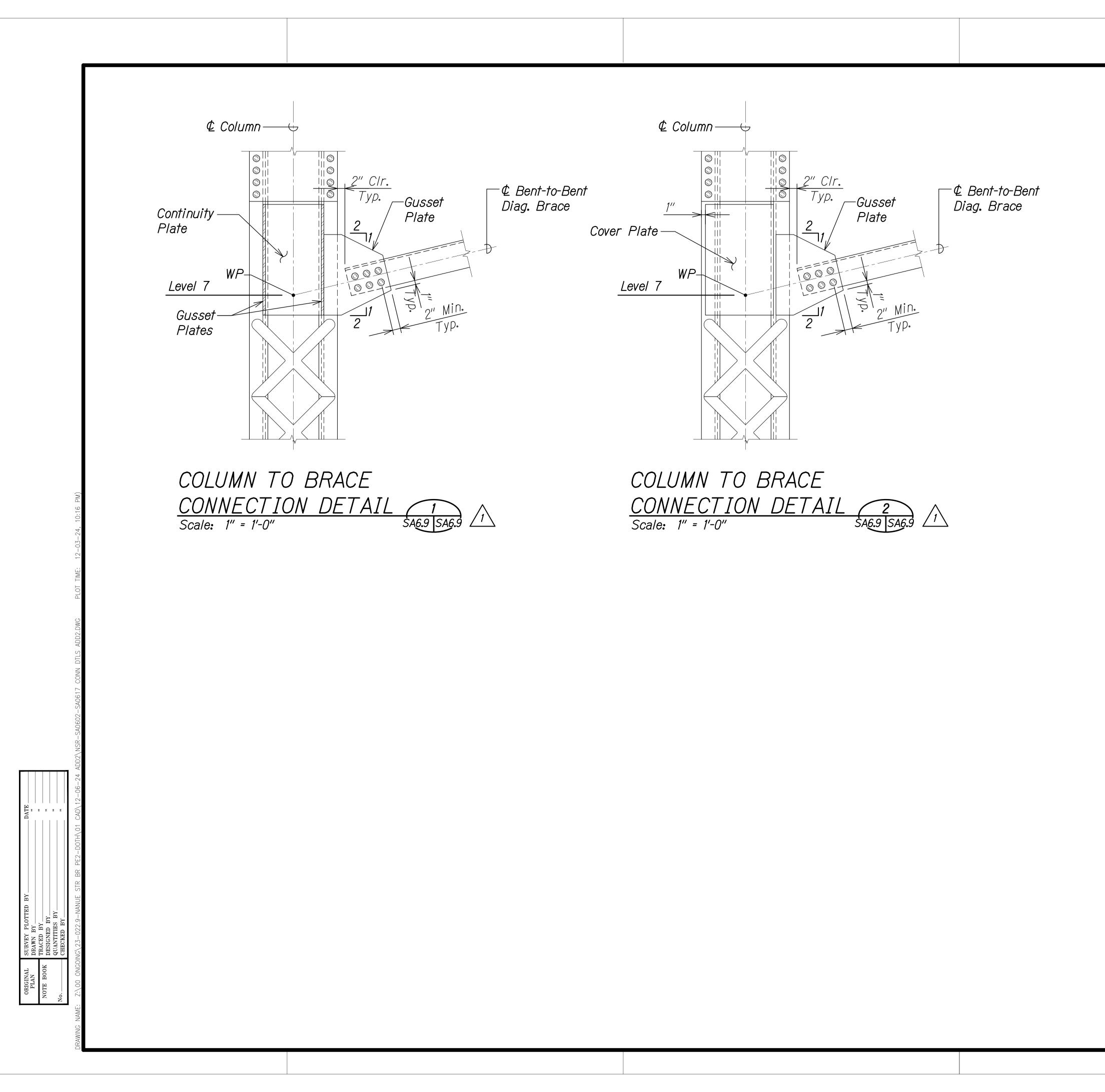
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 114	280

/1<u>NOTES:</u>

- 1. The Contractor's Steel Detailer is responsible for determining the actual size of each gusset/continuity/cover plate based on the information provided in the Contract Drawings.
- 2. All bolted connections for horizontal and diagonal braces, as detailed on this sheet, shall be pretensioned.
- 3. After erection, touch-up paint the ends of all bolts/nuts/washers.
- 4. Batten plates and lacing on bracing not shown for clarity.

WP OFFSET SCHEDULE							
L	OCATION	"H"	<i>"</i> .j"				
Level 5	Bent No. 3	4″	2″				

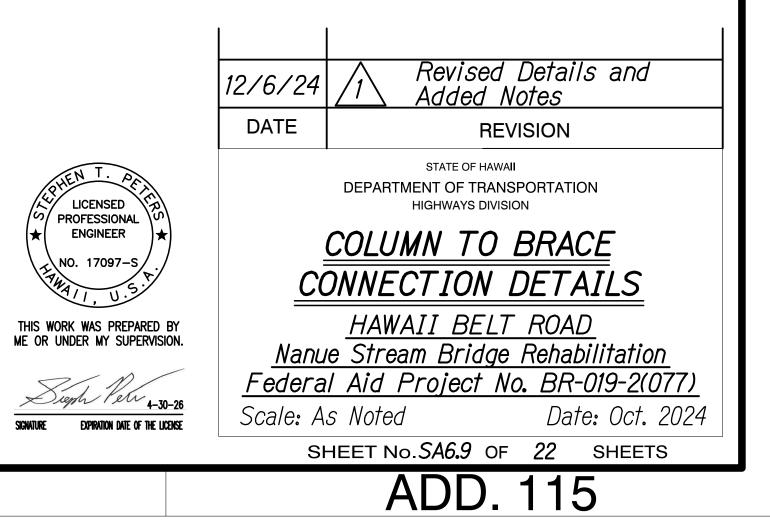


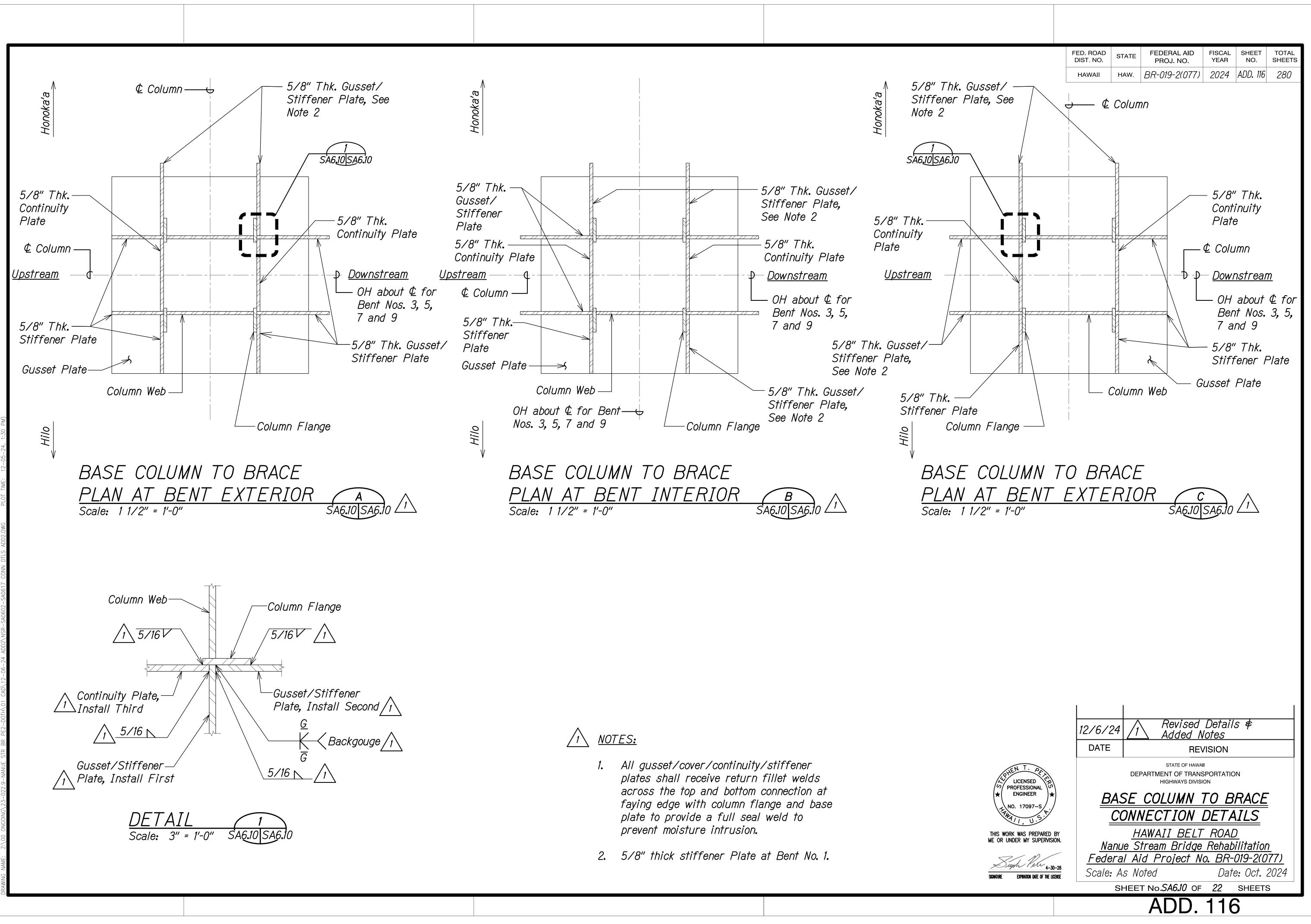


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 115	280

 $\bigwedge$ <u>NOTES:</u>

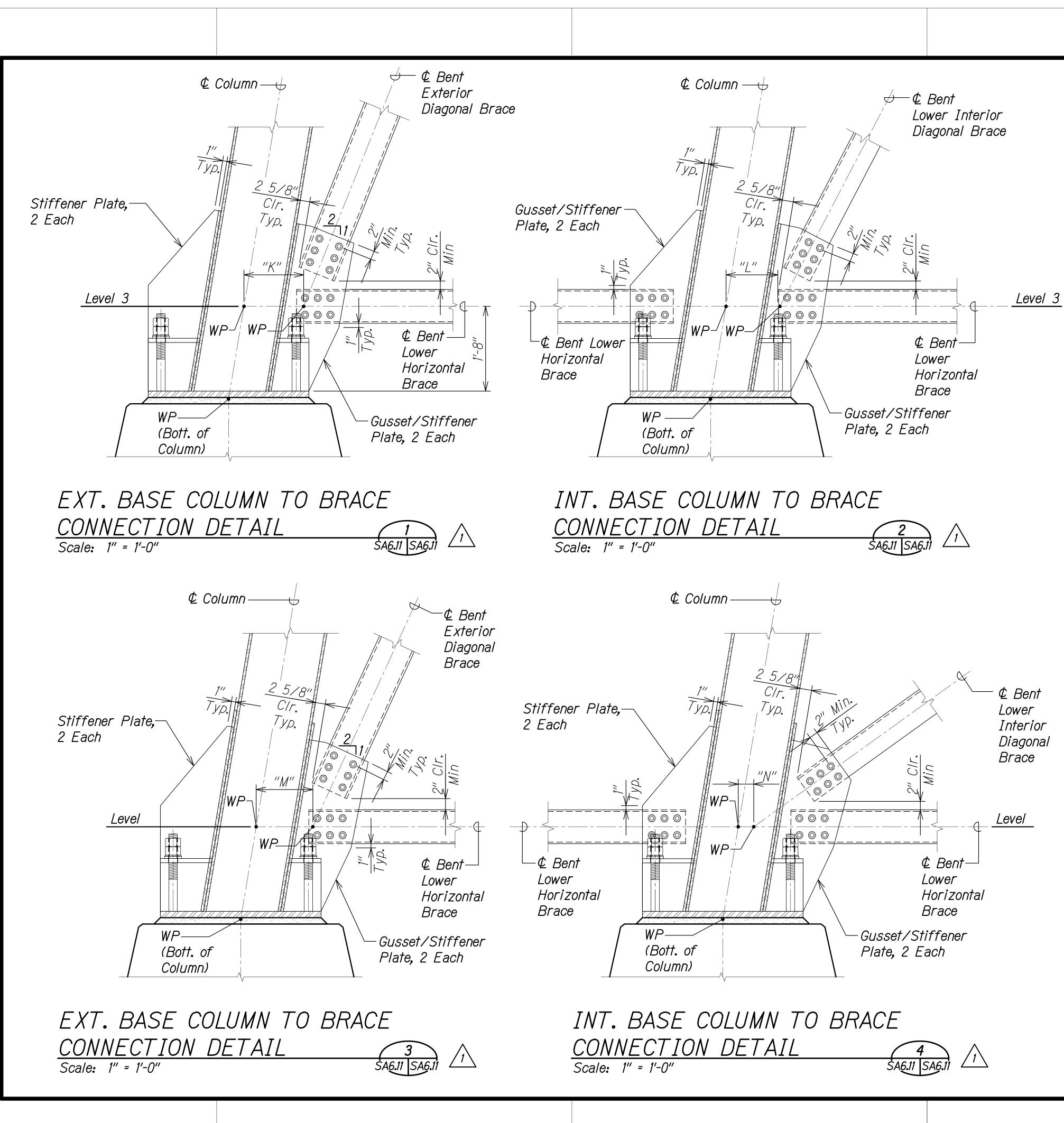
- 1. The Contractor's Steel Detailer is responsible for determining the actual size of each gusset/continuity/cover plate based on the information provided in the Contract Drawings.
- 2. All bolted connections for horizontal and diagonal braces, as detailed on this sheet, shall be pretensioned.
- 3. After erection, touch-up paint the ends of all bolts/nuts/washers.
- 4. Batten plates and lacing on braces not shown for clarity.





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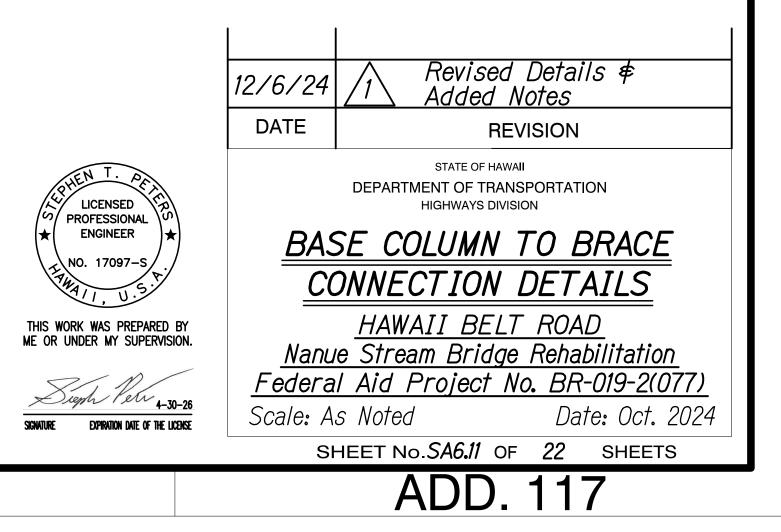
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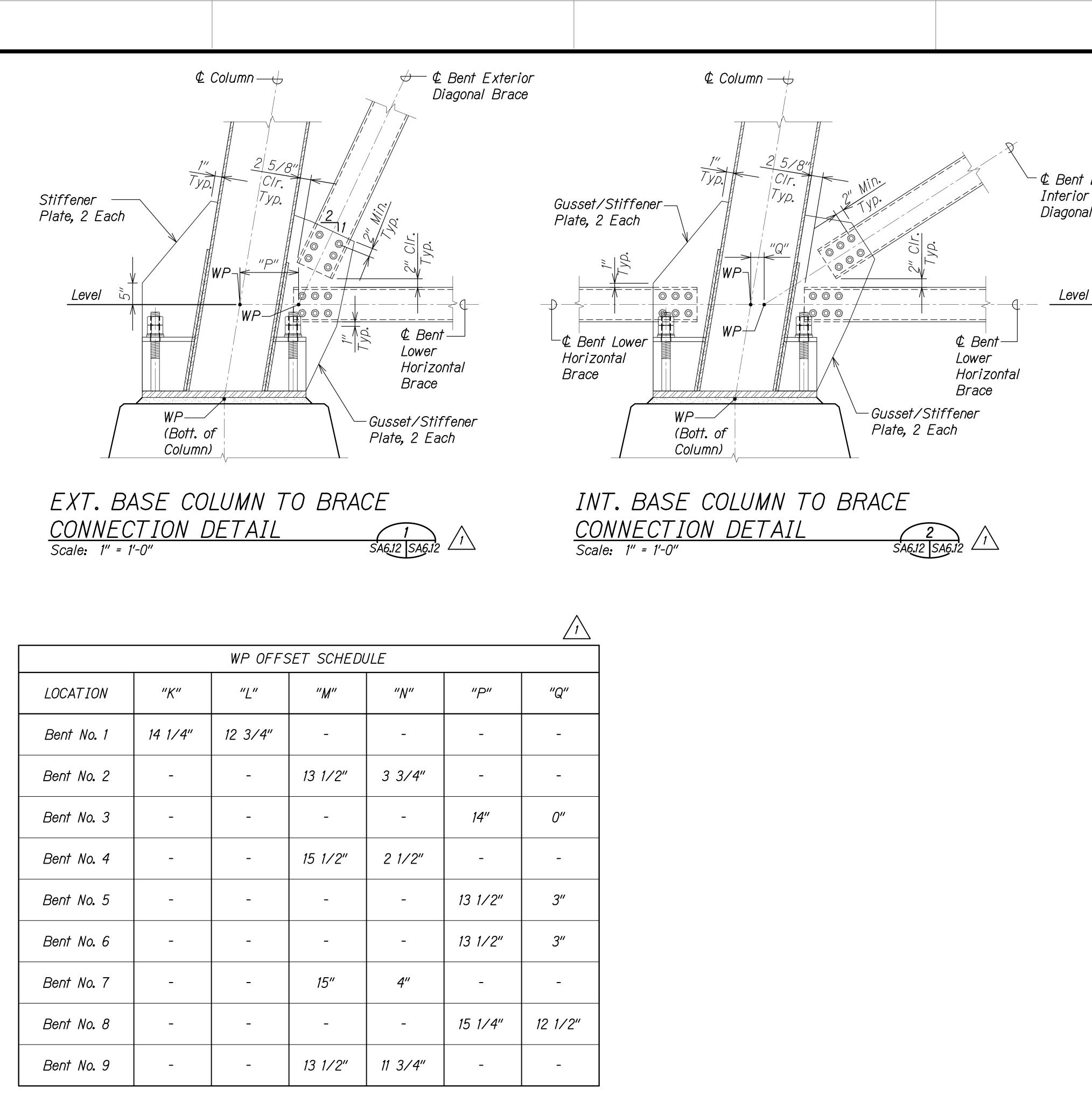
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 117	280

## /1 <u>NOTES:</u>

- The Contractor's Steel Detailer is responsible for determining the actual size of each gusset/continuity/cover plate based on the information provided in the Contract Drawings.
- 2. All bolted connections for horizontal and diagonal braces, as detailed on this sheet, shall be pretensioned.
- 3. After erection, touch-up paint the ends of all bolts/nuts/washers.
- 4. Batten plates and lacing not shown for clarity.
- 5. See Schedule on sheet SA6.12 for WP offsets.





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BY\_\_\_\_BY\_\_\_ BY\_\_\_ BY\_\_ ED\_B THES

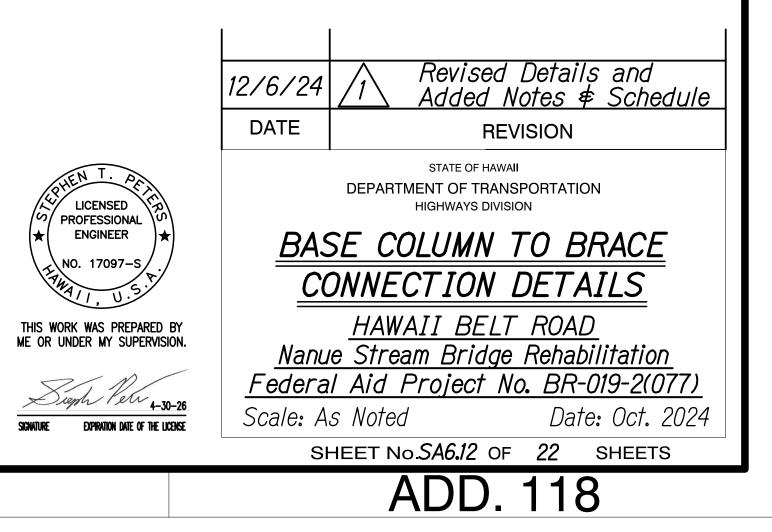
SUR DRA TRA DES QUA

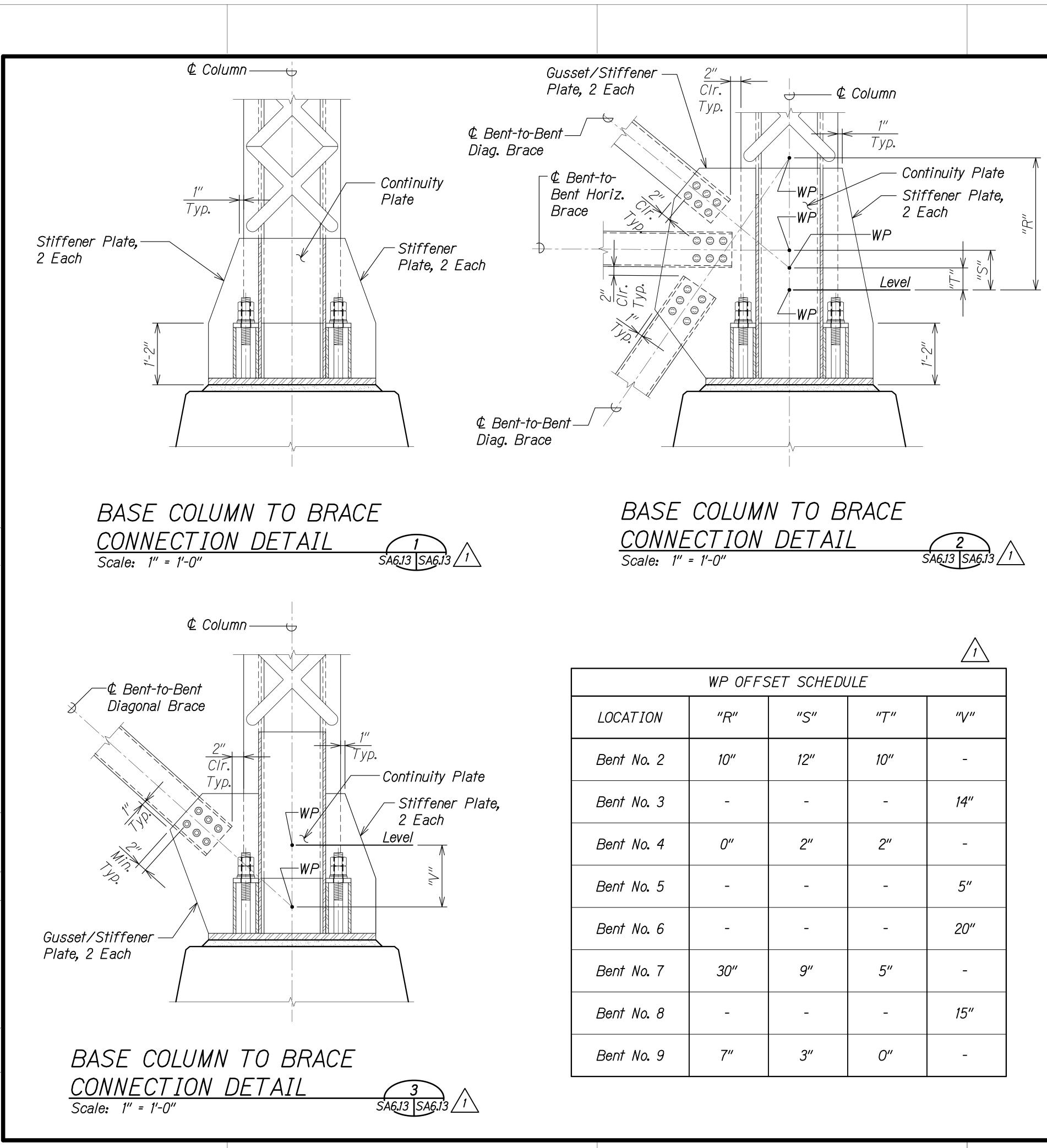
	FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	BR-019-2(077)	2024	ADD. 118	280
<u>NOTES:</u>						

∉ Bent Lower Diagonal Brace

Level

- The Contractor's Steel Detailer is responsible for determining the actual size of each gusset/continuity/cover plate based on the information provided in the Contract Drawings.
- 2. All bolted connections for horizontal and diagonal braces, as detailed on this sheet, shall be pretensioned.
- 3. After erection, touch-up paint the ends of all bolts/nuts/washers.
- 4. Batten plates and lacing not shown for clarity.





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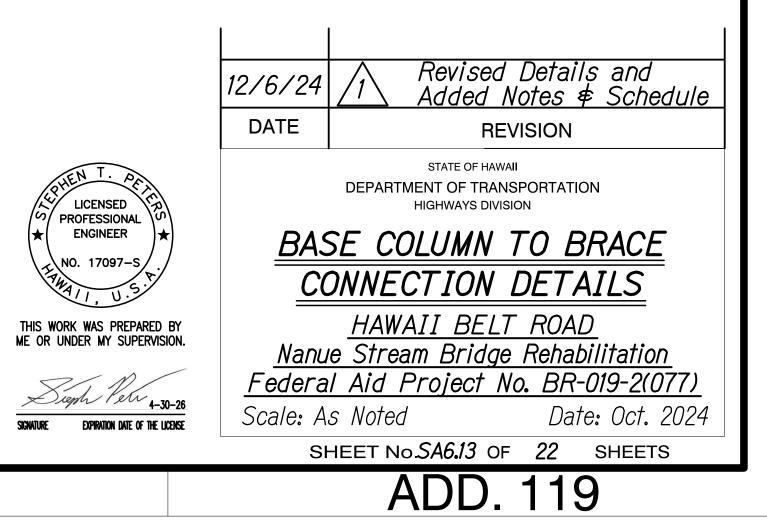
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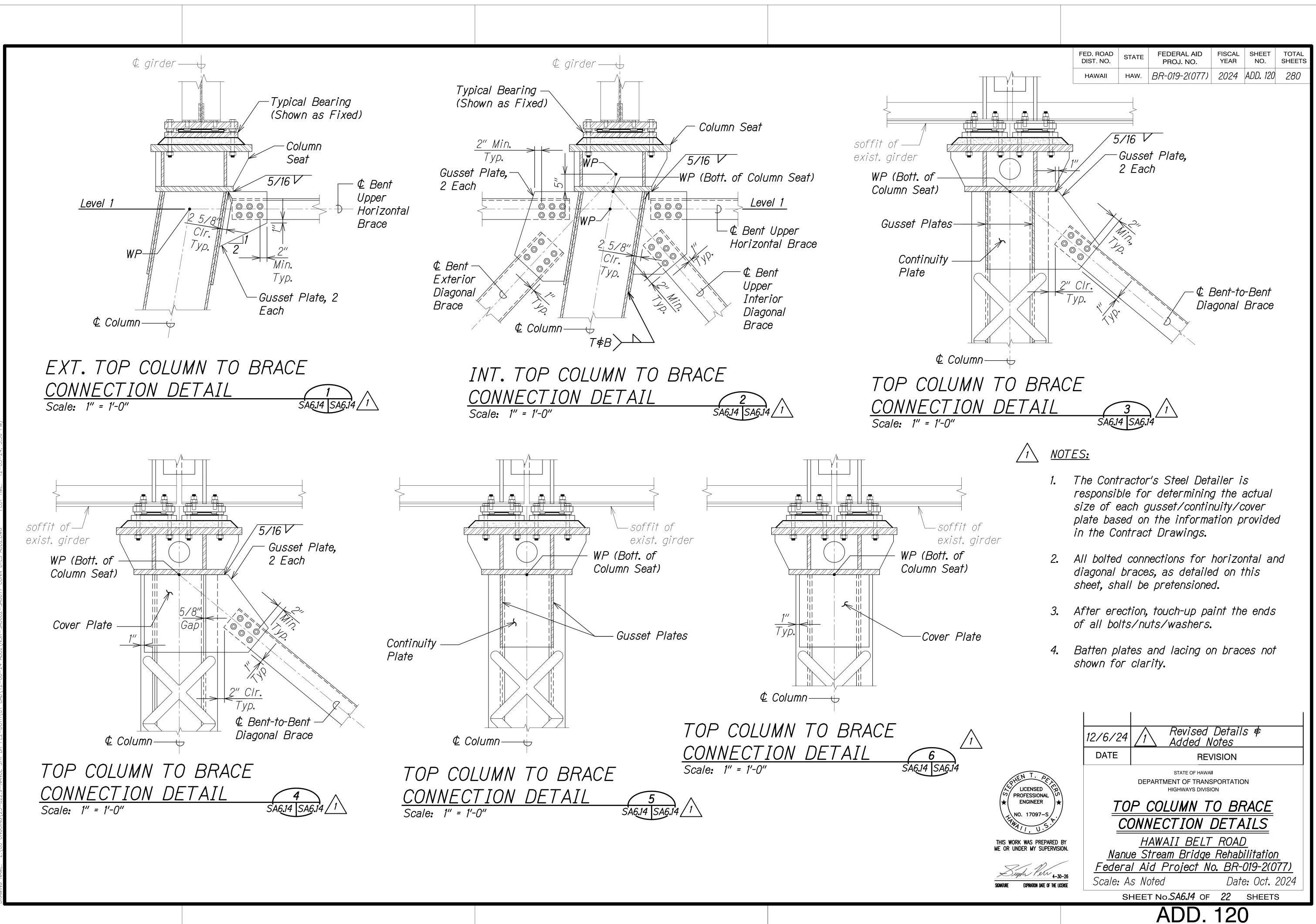
				$\angle \uparrow $
	WP OFFS	SET SCHEDU	JLE	
LOCATION	"R"	"S"	"T"	<i>"\\</i> "
Bent No. 2	10"	12″	10″	-
Bent No. 3	-	-	-	14″
Bent No. 4	0"	2″	2″	-
Bent No. 5	-	-	-	5″
Bent No. 6	-	-	-	20″
Bent No. 7	30″	9″	5″	-
Bent No. 8	-	-	-	15″
Bent No. 9	7"	3"	0"	-

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 119	280

### /1NOTES:

- 1. The Contractor's Steel Detailer is responsible for determining the actual size of each gusset/continuity/cover plate based on the information provided in the Contract Drawings.
- 2. All bolted connections for horizontal and diagonal braces, as detailed on this sheet, shall be pretensioned.
- 3. After erection, touch-up paint ends of all bolts/nuts/washers.
- 4. Batten plates and lacing on bracing not shown for clarity.

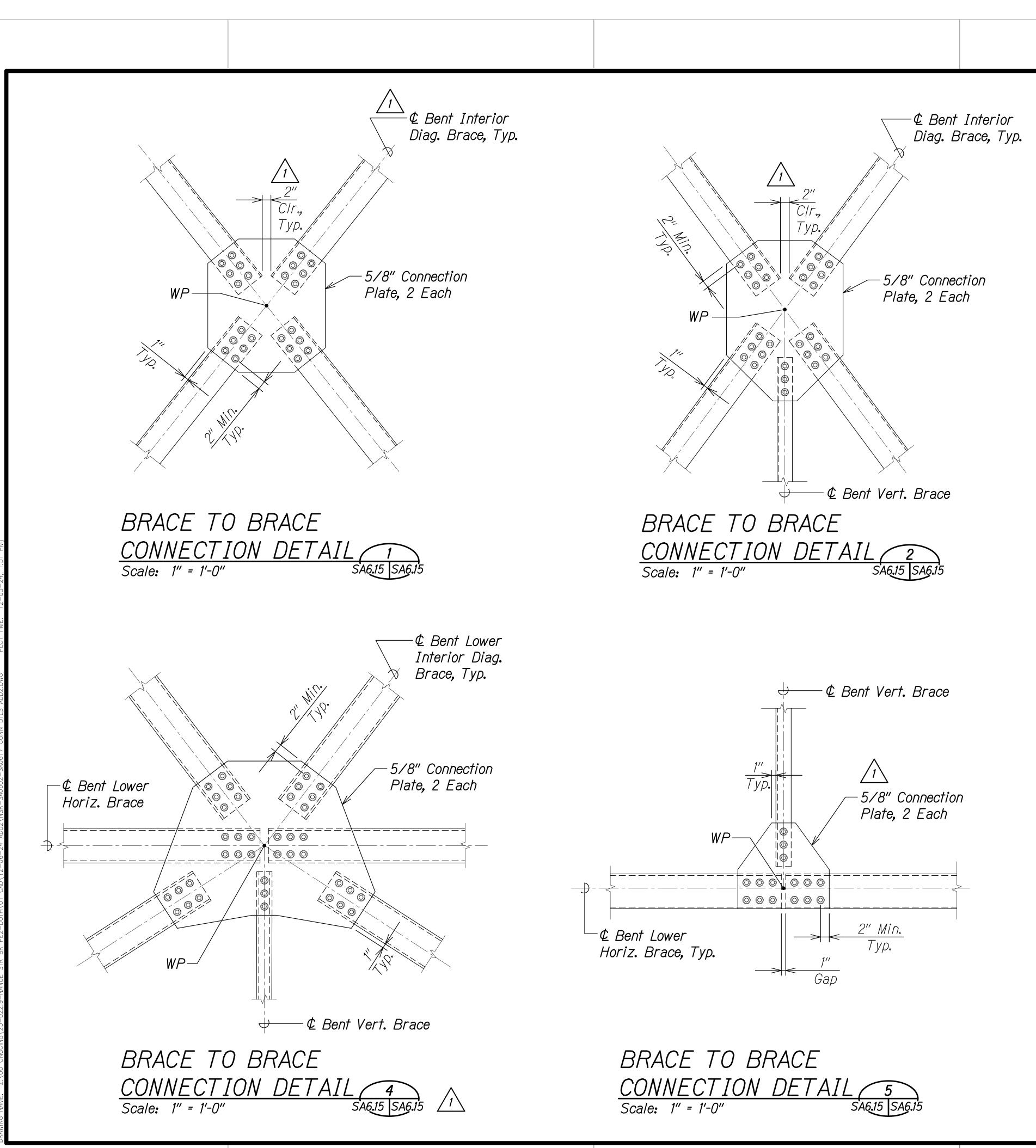




NAME: Z-) OD ONCOINCY 33 022 0 NANULE STB BB BE2 DOTH) 01 CADY 12 06 21 ADD2) NSB SA0602 SA0617 CONN. DELS ADD2 DWC BLOT TIME: 12 05 21

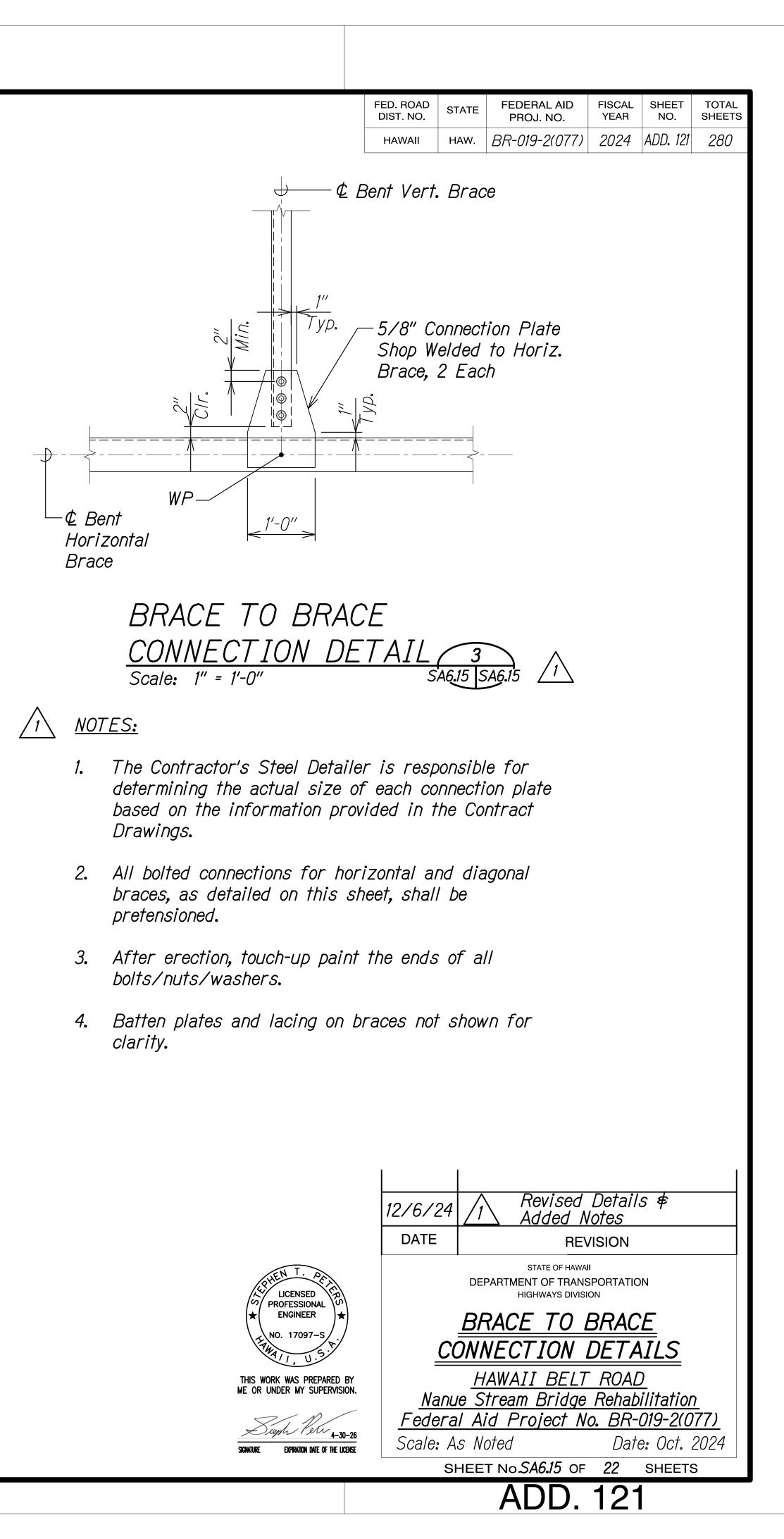
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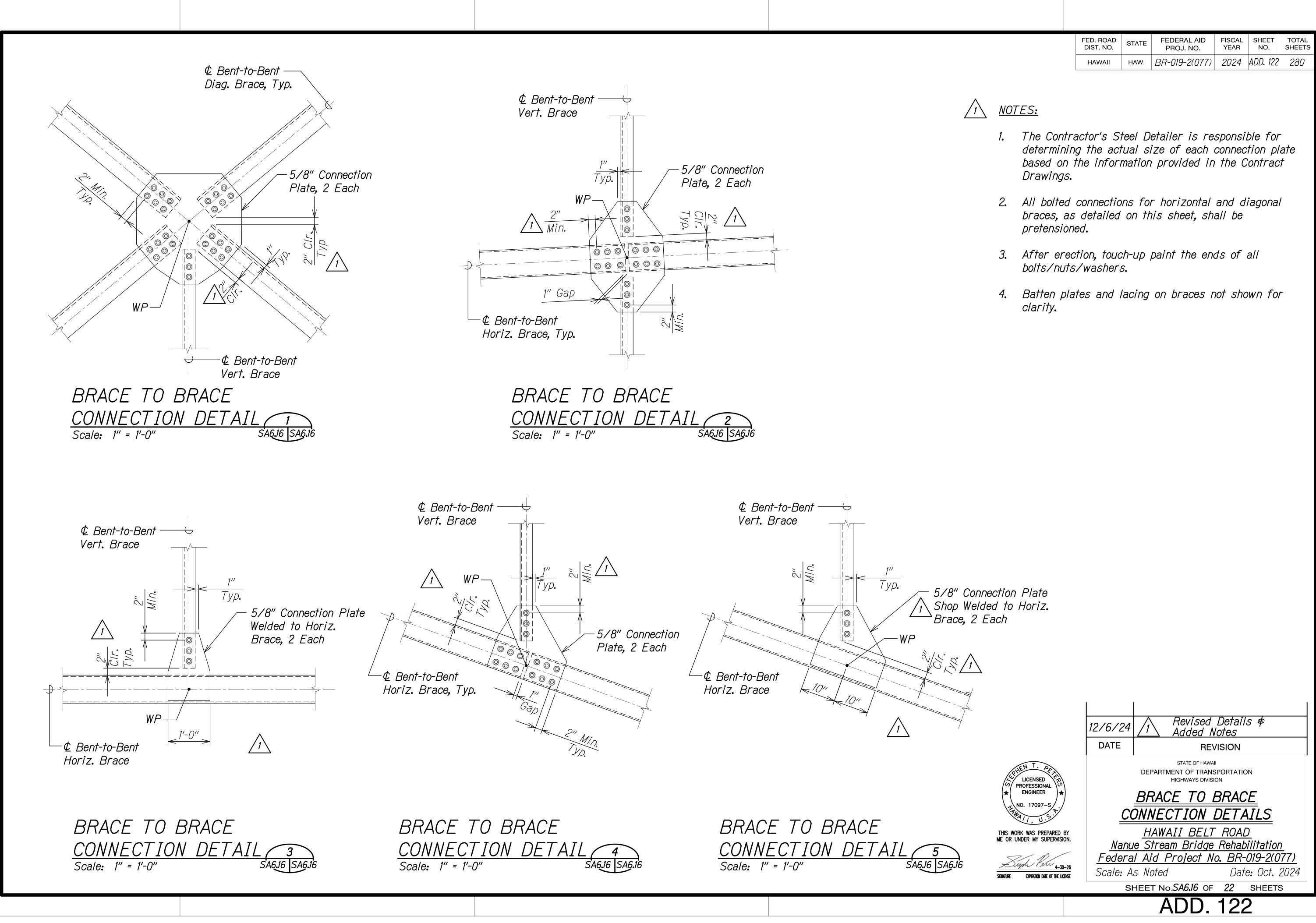
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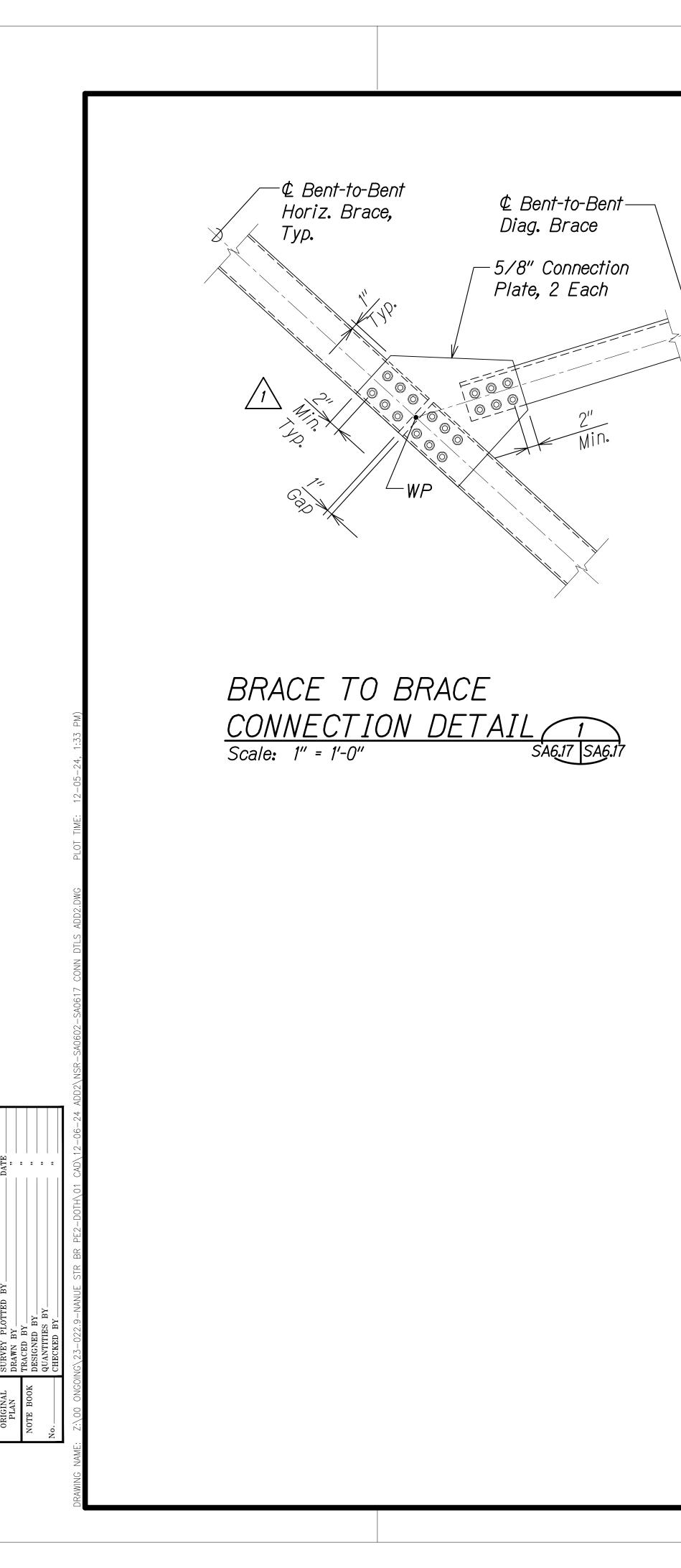


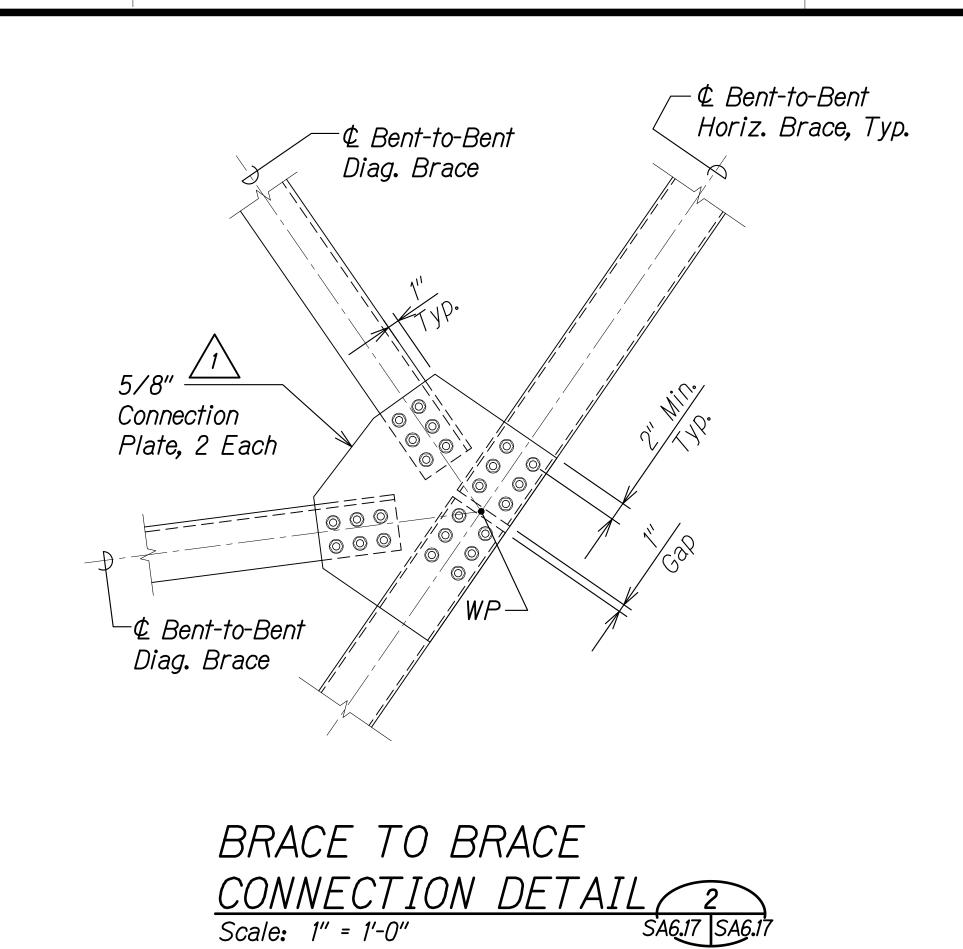


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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 122	280



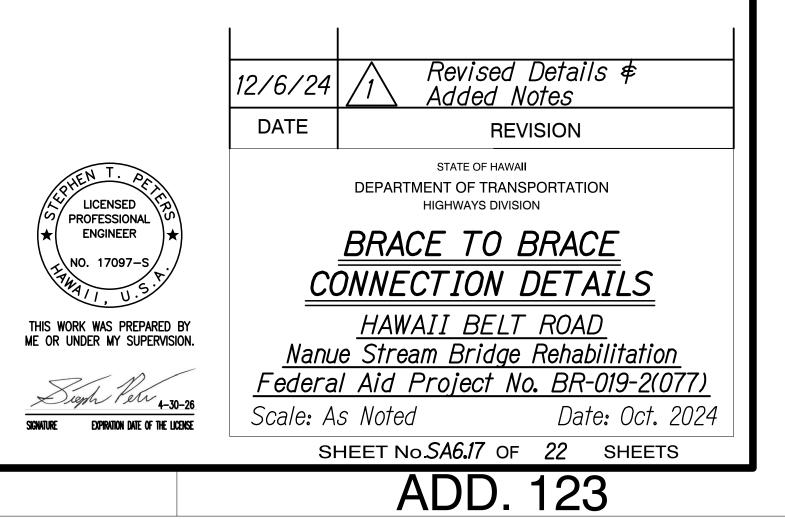


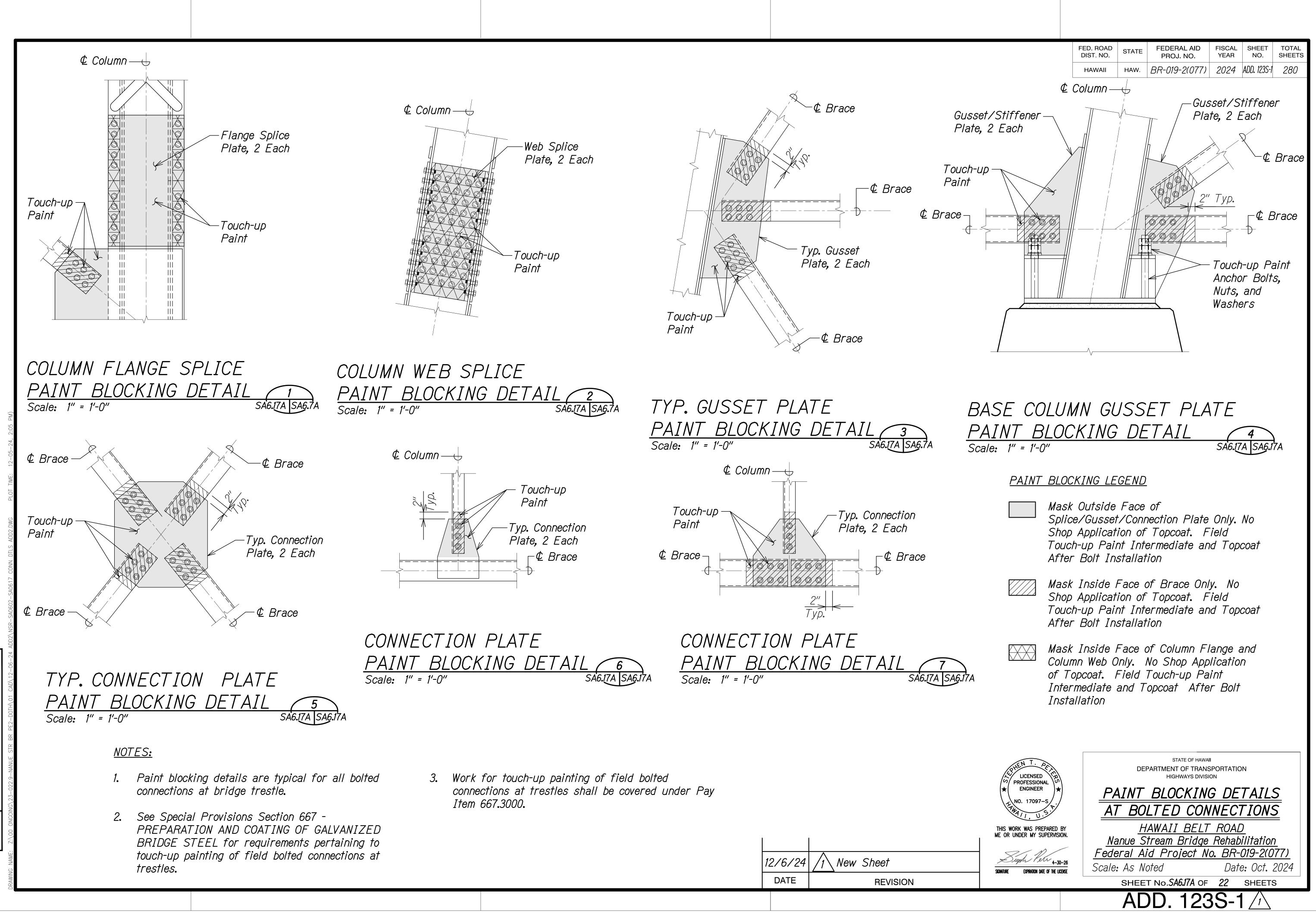
FED. ROAD	STATE	FEDERAL AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 123	280



<u>NOTES:</u>

- 1. The Contractor's Steel Detailer is responsible for determining the actual size of each connection plate based on the information provided in the Contract Drawings.
- 2. All bolted connections for horizontal and diagonal braces, as detailed on this sheet, shall be pretensioned.
- 3. After erection, touch-up paint the ends of all bolts/nuts/washers.
- 4. Batten plates and lacing on braces not shown for clarity.





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12/6/24	New Sh
DATE	

	CONNECTION ID	PLAN DETAILS	ELEV. DETAILS
	TP1A1-C	A/SA6.4	1/SA6.14
	TP1B1-C	B/SA6.4	2/SA6.14
	TP1C1-C	B/SA6.4	2/SA6.14 (OH)
	TP1D1-C	C/SA6.4	1/SA6.14 (OH)
_	SP1B1-C2	-	1/SA6.15
NO. 1	GP1A2-C	A/SA6.4	1/SA6.5
$\geq$	GP1B2-C	B/SA6.4	2/SA6.5
$\sim$	GP1C2-C	B/SA6.4	2/SA6.5 (OH)
BENT	GP1D2-C	C/SA6.4	1/SA6.5 (OH)
Ч		C7 3A0.4	
	SP1B2-C3	-	2/SA6.15
	BP1A3-C	/1 A/SA6.10	1/SA6.11
	BP1B3-C	/1 B/SA6.10	2/SA6.11
	SP13	-	3/SA6.15
	BP1C3-C	/1 B/SA6.10	2/SA6.11 (OH)
	BP1D3-C	/1 C/SA6.10	1/SA6.11 (OH)
	TP2A1-C	D/SA6.2	1/SA6.14
	<i>TP2B1-C</i>	E/SA6.2	2/SA6.14
	<i>TP2C1-C</i>	E/SA6.2	2/SA6.14 (OH)
	TP2D1-C	F/SA6.2	1/SA6.14 (OH)
	SP2B1-C2	_	1/SA6.15
	GP2A2-C	A/SA6.4	1/SA6.5
	GP2B2-C	B/SA6.4	2/SA6.5
	GP2C2-C	B/SA6.4	2/SA6.5 (OH)
	GP2D2-C	C/SA6.4	1/SA6.5 (OH)
$\sim$	SP2B2-C3	-	1/SA6.15
NO.	GP2A3-C		2/5465
	GP2B3-C	D/SA6.2 E/SA6.2	/1 3/SA6.5
BENT	GP2C3-C	E/SA6.2	/1\ 4/SA6.5 (1\4/SA6.5 (OH)
BE	GP2D3-C	F/SA6.2	
		F7 SAD.2	1 3/SA6.5 (OH)
	SP2B3-C4	-	/1\ 2/SA6.15
	GP2A4-C	D/SA6.2	1 3/SA6.5
	GP2B4-C	E/SA6.2	1 4/SA6.5
	SP24	-	3/SA6.15
	GP2C4-C	E/SA6.2	1 4/SA6.5 (OH)
	GP2D4-C	F/SA6.2	13/SA6.5 (OH)
	SP2B4-C5	-	2/SA6.15

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									F;	FED. ROAD STATE FEDERAL AI PROJ. NO.	
										наwаш наw. <i>BR-019-2(0</i>	077) 2024 ADD. 124 280
		CONNE	ECTION REFE	EREN	NCE SCHED	IULE					
	CONNECTION ID	PLAN DETAILS	ELEV. DETAILS		CONNECTION ID	PLAN DETAILS	ELEV. DETAILS		CONNECTION	ID PLAN DETAILS	ELEV. DETAILS
$\sim$	BP2A5-C	A/SA6.10	3/SA6.11		TP4A1-C	D/SA6.2	1/SA6.14	1	TP5A1-C	A/SA6.2	1/SA6.14
NO.	BP2B5-C	B/SA6.10	4/SA6.11		TP4B1-C	E/SA6.2	2/SA6.14	1	ТР5В1-С	B/SA6.2	2/SA6.14
	SP25	-	3/SA6.15		TP4C1-C	E/SA6.2	2/SA6.14 (OH)	1	ТР5С1-С	B/SA6.2	2/SA6.14 (OH)
$\geq$	BP2C5-C	B/SA6.10	4/SA6.11 (OH)		TP4D1-C	F/SA6.2	1/SA6.14 (OH)		TP5D1-C		1/SA6.14 (OH)
BENT	BP2D5-C	/1\ C/SA6.10	3/SA6.11 (OH)		SP4B1-C2	-	1/SA6.15	1	SP5B1-C2	-	1/SA6.15
					GP4A2-C	A/SA6.4	1/SA6.5	1	GP5A2-C	A/SA6.4	1/SA6.5
<del></del>	TP3A1-C	A/SA6.2	1/SA6.14	+	GP4B2-C	B/SA6.4	2/SA6.5	1	GP5B2-C		2/SA6.5
F	<i>TP3B1-C</i>	B/SA6.2	2/SA6.14	+	GP4C2-C	B/SA6.4	2/SA6.5 (OH)	1	GP5C2-C		2/SA6.5 (OH)
F	TP3C1-C	B/SA6.2	2/SA6.14 (OH)	ļ	GP4D2-C	C/SA6.4	1/SA6.5 (OH)	1	GP5D2-C		1/SA6.5 (OH)
F	<i>TP3D1-C</i>	C/SA6.2	1/SA6.14 (OH)	ļļ	SP4B2-C3	-	1/SA6.15	1	SP5B2-C3		1/SA6.15
F	SP3B1-C2	-	1/SA6.15	ļļ		1	//	1			
F				ŀ	GP4A3-C	D/SA6.2	/1 3/SA6.5	2	GP5A3-C	A/SA6.2	/1 3/SA6.5
F	GP3A2-C	A/SA6.4	1/SA6.5	ļŀ	GP4B3-C	E/SA6.2	// 3/ SA6.5				// 3/ SA0.5
F	GP3B2-C	B/SA6.4	2/SA6.5	ļļ	GP4C3-C	E/SA6.2	1\4/SA6.5 (OH)	NO.	GP5C3-C		1 4/SA6.5 (OH)
F	GP3C2-C	B/SA6.4	2/SA6.5 (OH)	ļļ	GP4D3-C	F/SA6.2	1 3/SA6.5 (OH)	4  .		Z	1 3/SA6.5 (OH)
ŀ	GP3D2-C	C/SA6.4	1/SA6.5 (OH)	;	SP4B3-C4		2/SA6.15	EN7		Z	2/SA6.15
ŀ	SP3B2-C3	-	1/SA6.15			1		BE			
F					GP4A4-C	D/SA6.2	/1 3/SA6.5	1	GP5A4-C	A/SA6.2	/1 3/SA6.5
ļ	GP3A3-C	A/SA6.4	1 3/SA6.5			E/SA6.2	1 4/SA6.5	1	GP5B4-C		1 4/SA6.5
Ţ	GP3B3-C	B/SA6.4	1 4/SA6.5	NO.	SP44	-	3/SA6.15	1	SP54	-	3/SA6.15
Ţ	GP3C3-C	B/SA6.4	1 4/SA6.5 (OH)		GP4C4-C	E/SA6.2	1 4/SA6.5 (OH)	1	GP5C4-C	B/SA6.2	1 4/SA6.5 (OH)
þ	GP3D3-C	C/SA6.4	1 3/SA6.5 (OH)		GP4D4-C	F/SA6.2	13/SA6.5 (OH)	1	GP5D4-C		13/SA6.5 (OH)
m	SP3B3-C4	-	1 2/SA6.15			-	2/SA6.15	1	SP5B4-C5		2/SA6.15
	·			†	t			1			
NO.	GP3A4-C	A/SA6.2	1 3/SA6.5		GP4A5-C	D/SA6.2	1 3/SA6.5	1	GP5A5-C	A/SA6.2	1 3/SA6.5
<u>&gt;</u>	GP3B4-C	B/SA6.2	1 4/SA6.5		GP4B5-C	E/SA6.2	1 4/SA6.5	1	GP5B5-C	B/SA6.2	1 4/SA6.5
BEN	SP34	-	3/SA6.15		SP45	-	3/SA6.15	1	SP55	-	3/SA6.15
ומ	GP3C4-C	B/SA6.2	1 4/SA6.5 (OH)		GP4C5-C	E/SA6.2	14/SA6.5 (OH)	1	GP5C5-C	B/SA6.2	14/SA6.5 (OH)
	GP3D4-C	C/SA6.2	13/SA6.5 (OH)		GP4D5-C	F/SA6.2	13/SA6.5 (OH)	1	GP5D5-C	C/SA6.2	13/SA6.5 (OH)
	SP3B4-C5	-	2/SA6.15		SP4B5-C6	-	2/SA6.15	4	SP5B5-C6	-	2/SA6.15
ŀ	GP3A5-C	A/SA6.2	/1 3/SA6.5		GP4A6-C	D/SA6.2	3/SA6.5	<u>⊢</u>			
F	GP3B5-C	B/SA6.2	1 4/SA6.5		GP4B6-C	E/SA6.2	4/SA6.5	1			
ŀ	SP35		3/SA6.15		SP46		5/SA6.15	1	,		
F	GP3C5-C	B/SA6.2	1 4/SA6.5 (OH)		GP4C6-C	E/SA6.2	4/SA6.5 (OH)	1	,	12/6/24 /1 Revised	ed Table Values
F	<i>GP3D5-C</i>	C/SA6.2	1 3/SA6.5 (OH)		GP4D6-C	F/SA6.2	3/SA6.5 (OH)	1	,		REVISION
ŀ	SP3B5-C6		2/SA6.15		SP4B6-C7		2/SA6.15	1		STATE OF	
ŀ						+		1 /	LENSED FD	DEPARTMENT OF T HIGHWAYS	TRANSPORTATION
ŀ	BP3A6-C	A/SA6.10 (OH)	1/SA6.12		BP4A7-C	A/SA6.10	3/SA6.11	(*	<pre> PROFESSIONAL O ENGINEER </pre>	CONNECTION	
ŀ	BP3B6-C	B/SA6.10 (OH)			BP4AT-C BP4B7-C	B/SA6.10	3/ SA6.11 4/SA6.11	1	NO. 17097-S	SCHEL	
ŀ	SP36	- D/ SAUIU (0///	5/SA6.12		SP47		4/ SA6.11 5/SA6.15		THAT I DEEDADED RY	HAWAII BE	
ŀ	BP3C6-C	- B/SA6.10 (OH)			BP4C7-C	- B/SA6.10	5/SA6.15 4/SA6.11 (OH)	ME O'	IS WORK WAS PREPARED BY OR UNDER MY SUPERVISION.	Nanue Stream Brid	
ŀ								×	Siegh Petr 4-30-26		
ļ	BP3D6-C	/1\C/SA6.10 (OH)	1/SA6.12 (OH)	,	BP4D7-C	/1\ C/SA6.10	3/SA6.11 (OH)	SIGNATURE		Scale: As Noted	Date: Oct. 2024
]				'	_ <u> </u>	1	'	٢	-	SHEET No.SA6.18	BOF 22 SHEETS

								FED	. ROAD STATE FEDERA	AL AID FISCAL SHEET TO
								DIST.	AWAII HAW. BR-019-	I. NO. YEAR NO. SHE
	CONNE	ECTION REF.	EREI	NCE SCHEE	JULE					
CONNECTION I	D PLAN DETAILS	ELEV. DETAILS		CONNECTION ID	PLAN DETAILS	ELEV. DETAILS		CONNECTION IL	D PLAN DETAIL	LS ELEV. DETAILS
BP2A5-C	A/SA6.10	3/SA6.11	1	TP4A1-C	D/SA6.2	1/SA6.14		TP5A1-C	A/SA6.2	1/SA6.14
BP2B5-C	B/SA6.10	4/SA6.11	1   '	TP4B1-C	E/SA6.2	2/SA6.14		ТР5В1-С	B/SA6.2	2/SA6.14
SP25	-	3/SA6.15	4   '	TP4C1-C	E/SA6.2	2/SA6.14 (OH)		TP5C1-C	B/SA6.2	2/SA6.14 (OH)
BP2C5-C	B/SA6.10	4/SA6.11 (OH)	4   '	TP4D1-C	F/SA6.2	1/SA6.14 (OH)		TP5D1-C	C/SA6.2	1/SA6.14 (OH)
BP2D5-C	/1\ C/SA6.10	3/SA6.11 (OH)	'	SP4B1-C2		1/SA6.15		SP5B1-C2	-	1/SA6.15
TD211_0			1	GP4A2-C	A/SA6.4	1/SA6.5		GP5A2-C	A/SA6.4	1/SA6.5
<i>TP3A1-C</i> <i>TP3B1-C</i>	A/SA6.2 B/SA6.2	1/SA6.14 2/SA6.14	1   '	GP4B2-C GP4C2-C	B/SA6.4 B/SA6.4	2/SA6.5 2/SA6.5 (OH)		GP5B2-C GP5C2-C	B/SA6.4 B/SA6.4	2/SA6.5 2/SA6.5 (OH)
<i>TP3BI-C</i> <i>TP3CI-C</i>	B/SA6.2 B/SA6.2	2/SA6.14 2/SA6.14 (OH)	1   '	GP4C2-C GP4D2-C	B/SA6.4 C/SA6.4	2/SA6.5 (UH) 1/SA6.5 (OH)		GP5C2-C GP5D2-C	C/SA6.4	1/SA6.5 (OH)
<i>TP3D1-C</i>	C/SA6.2	1/SA6.14 (OH)	1   '	SP4B2-C3	-	1/SA6.5 (UH) 1/SA6.15		SP5B2-C3		1/SA6.5 (UH) 1/SA6.15
SP3B1-C2	-	1/SA6.14 (OH) 1/SA6.15	1   '		<u> </u> '					
		]	1   '	GP4A3-C	D/SA6.2	1 3/SA6.5	2	GP5A3-C	A/SA6.2	1 3/SA6.5
GP3A2-C	A/SA6.4	1/SA6.5	1   '	GP4B3-C	E/SA6.2	1 4/SA6.5	2		B/SA6.2	1 4/SA6.5
GP3B2-C	B/SA6.4	2/SA6.5	1   '	GP4C3-C	E/SA6.2	14/SA6.5 (OH)	NO.		B/SA6.2	14/SA6.5 (OH)
GP3C2-C	B/SA6.4	2/SA6.5 (OH)	1   '	GP4D3-C	F/SA6.2	13/SA6.5 (OH)	N	GP5D3-C	C/SA6.2	13/SA6.5 (OH)
GP3D2-C	C/SA6.4	1/SA6.5 (OH)	4   '	SP4B3-C4	- '	2/SA6.15	BEN	SP5B3-C4	-	2/SA6.15
SP3B2-C3		1/SA6.15		GP4A4-C	D/SA6.2	/1 3/SA6.5	F	GP5A4-C	A/SA6.2	/1\ 3/SA6.5
GP3A3-C	A/SA6.4	/1 3/SA6.5	. 4	00404.0	E/SA6.2	/1 4/SA6.5		GP5B4-C	B/SA6.2	// J/SA6.5
GP3B3-C	B/SA6.4	// 3/ SA6.5	NO.	SP44	-	3/SA6.15		SP54	-	3/SA6.15
GP3C3-C	B/SA6.4	1 4/SA6.5 (OH)		GP4C4-C	E/SA6.2	1 4/SA6.5 (OH)		GP5C4-C	B/SA6.2	1 4/SA6.5 (OH)
GP3D3-C	C/SA6.4	1 3/SA6.5 (OH)	SEN	GP4D4-C	F/SA6.2	1 3/SA6.5 (OH)		GP5D4-C	C/SA6.2	1 3/SA6.5 (OH)
SP3B3-C4	-	1 2/SA6.15		SP4B4-C5	- '	2/SA6.15		SP5B4-C5	-	2/SA6.15
GP3A4-C	A/SA6.2	/1 3/SA6.5	1   '	GP4A5-C	D/SA6.2	/1 3/SA6.5		GP5A5-C	A/SA6.2	1 3/SA6.5
GP3B4-C	B/SA6.2	1 4/SA6.5	1   '	GP4B5-C	E/SA6.2	1 4/SA6.5		GP5B5-C	B/SA6.2	1 4/SA6.5
SP34	-	3/SA6.15	1   '	SP45	-	3/SA6.15		SP55	-	3/SA6.15
GP3C4-C	B/SA6.2	14/SA6.5 (OH)	1   '	GP4C5-C	E/SA6.2	1 4/SA6.5 (OH)		GP5C5-C	B/SA6.2	14/SA6.5 (OH)
GP3D4-C	C/SA6.2	13/SA6.5 (OH)	4   '	GP4D5-C	F/SA6.2	13/SA6.5 (OH)		GP5D5-C	C/SA6.2	1 3/SA6.5 (OH)
SP3B4-C5	- '	2/SA6.15	1   '	SP4B5-C6	- '	2/SA6.15		SP5B5-C6	-	2/SA6.15
GP3A5-C	A/SA6.2	1 3/SA6.5	4   '	GP4A6-C	D/SA6.2	3/SA6.5				
GP3B5-C	B/SA6.2	/1 4/SA6.5	4   '	GP4B6-C	E/SA6.2	4/SA6.5		1	I	
SP35		3/SA6.15	4   '	SP46		5/SA6.15		15	2/6/24 /1 Revi	vised Table Values
GP3C5-C	B/SA6.2	1 4/SA6.5 (OH)	f   '	GP4C6-C	E/SA6.2	4/SA6.5 (OH)			DATE	
GP3D5-C	C/SA6.2	1 3/SA6.5 (OH) 2/SA615	1   '	GP4D6-C	F/SA6.2	3/SA6.5 (OH)				
SP3B5-C6	-	2/SA6.15	1   '	SP4B6-C7		2/SA6.15	li.	LICENSED	DEPARTMENT (	ATE OF HAWAII OF TRANSPORTATION IWAYS DIVISION
BP3A6-C	A/SA6.10 (OH)	1/SA6.12	1   '	BP4A7-C	A/SA6.10	3/SA6.11	(*	PROFESSIONAL ENGINEER ∧ NO. 17097-S		<u>ON REFERENCE</u>
BP3B6-C	B/SA6.10 (OH)	2/SA6.12	1   '	BP4B7-C	B/SA6.10	4/SA6.11	X	That U.S.F	<u>SCF</u>	HEDULE
SP36	-	5/SA6.15	1   '	SP47	-	5/SA6.15	this Me (	S WORK WAS PREPARED BY DR UNDER MY SUPERVISION.		BELT ROAD
BP3C6-C	B/SA6.10 (OH)	2/SA6.12 (OH)	1   '	BP4C7-C	B/SA6.10	4/SA6.11 (OH)	j.			<u>Bridge Rehabilitation</u> ject No. BR-019-2(077)
BP3D6-C	1 C/SA6.10 (OH)	1/SA6.12 (OH)	4   '	BP4D7-C	1 C/SA6.10	3/SA6.11 (OH)	SIGNATUR	= Siegh Ten 4-30-26	Scale: As Noted	Date: Oct. 202
		ļ	1 '	,	,	1		. LA REALIZE	SHEET NO.SAG	

			I	<u> </u>			CTION REFL				Г Г				1
	CONNECTION ID	PLAN DETAILS	ELEV. DETAILS	C	CONNECTION ID	PLAN DETAILS	ELEV. DETAILS		CONNECTION IL	PLAN DETAILS	ELEV. DETAILS		CONNECTION	ID PLAN DETAILS	ELEV. DETAI
	GP5A6-C	A/SA6.2	3/SA6.5		GP6A5-C	D/SA6.2	1 3/SA6.5		GP7A4-C	A/SA6.2	/1 3/SA6.5		TP9A1-C	A/SA6.2	1/SA6.14
	<i>GP5B6-C</i>	B/SA6.2	4/SA6.5		GP6B5-C	E/SA6.2	1 4/SA6.5		GP7B4-C	B/SA6.2	/1 4/SA6.5		<i>TP9B1-C</i>	B/SA6.2	2/SA6.14
	SP56	-	5/SA6.15		SP65	-	3/SA6.15		SP74	-	3/SA6.15		<i>TP9C1-C</i>	B/SA6.2	2/SA6.14 (0
	GP5C6-C	B/SA6.2	4/SA6.5 (OH)		GP6C5-C	E/SA6.2	1 4/SA6.5 (OH)		GP7C4-C	B/SA6.2	1 4/SA6.5 (OH)		TP9D1-C	C/SA6.2	1/SA6.14 ((
	GP5D6-C	C/SA6.2	3/SA6.5 (OH)		GP6D5-C	F/SA6.2	13/SA6.5 (OH)		GP7D4-C	C/SA6.2	13/SA6.5 (OH)		SP9B1-C2	-	1/SA6.15
					SP6B5-C6	-	2/SA6.15		SP7B4-C5	-	2/SA6.15	6			
ר [	GP5A7-C	A/SA6.2	3/SA6.5										GP9A2-C	A/SA6.4	1/SA6.5
בי   כ	GP5B7-C	B/SA6.2	1/SA6.6		GP6A6-C	D/SA6.2	3/SA6.5		GP7A5-C	A/SA6.2	/1 3/SA6.5	N(	GP9B2-C	B/SA6.4	2/SA6.5
	SP5B7-C8	-	4/SA6.15		GP6B6-C	E/SA6.2	4/SA6.5		GP7B5-C	B/SA6.2	1 4/SA6.5		GP9C2-C	B/SA6.4	2/SA6.5 (
2	GP5C7-C	B/SA6.2	1/SA6.6 (OH)	9	SP66	-	5/SA6.15	NC	SP75	-	3/SA6.15	EV	GP9D2-C	C/SA6.4	1/SA6.5 (0
ם   מ	GP5D7-C	C/SA6.2	3/SA6.5 (OH)		GP6C6-C	E/SA6.2	4/SA6.5 (OH)		GP7C5-C	B/SA6.2	1 4/SA6.5 (OH)	B	SP9B2-C3	-	1/SA6.15
					GP6D6-C	F/SA6.2	3/SA6.5 (OH)	E	GP7D5-C	C/SA6.2	13/SA6.5 (OH)				
F	BP5A8-C	A/SA6.10 (OH)	1/SA6.12					B	SP7B5-C6	-	2/SA6.15		BP9A3-C	A/SA6.10 (OH)	3/SA6.1
F	BP5B8-C	B/SA6.10 (OH)	2/SA6.12	BEN	GP6A7-C	D/SA6.2	3/SA6.5						BP9B3-C	B/SA6.10 (OH)	4/SA6.1
F	SP58	-	5/SA6.15		GP6B7-C	E/SA6.2	1/SA6.6		BP7A6-C	A/SA6.10 (OH)	3/SA6.11		BP9C3-C	B/SA6.10 (OH)	4/SA6.11 (
	BP5C8-C	B/SA6.10 (OH)	2/SA6.12 (OH)		SP6B7-C8	_	4/SA6.15		BP7B6-C	B/SA6.10 (OH)	4/SA6.11		BP9D3-C	C/SA6.10 (OH)	3/SA6.11 (
		C/SA6.10 (OH)	1/SA6.12 (OH)		GP6C7-C	E/SA6.2	1/SA6.6 (OH)		SP76	-	5/SA6.15				
F					GP6D7-C	F/SA6.2	3/SA6.5 (OH)		BP7C6-C	B/SA6.10 (OH)	4/SA6.11 (OH)				
									BP7D6-C	1 C/SA6.10 (OH)	3/SA6.11 (OH)				
	TP6A1-C	D/SA6.2	1/SA6.14		BP6A8-C	A/SA6.10	1/SA6.12								
	TP6B1-C	E/SA6.2	2/SA6.14		BP6B8-C	B/SA6.10	2/SA6.12								
F	TP6C1-C	E/SA6.2	2/SA6.14 (OH)		SP68	_	5/SA6.15		TP8A1-C	D/SA6.2	1/SA6.14				
F	TP6D1-C	F/SA6.2	1/SA6.14 (OH)		BP6C8-C	B/SA6.10	2/SA6.12 (OH)		TP8B1-C	E/SA6.2	2/SA6.14				
F	SP6B1-C2	-	1/SA6.15		BP6D8-C	/1 C/SA6.10	1/SA6.12 (OH)		TP8C1-C	E/SA6.2	2/SA6.14 (OH)				
									TP8D1-C	F/SA6.2	1/SA6.14 (OH)				
NC.	GP6A2-C	A/SA6.4	1/SA6.5						SP8B1-C2	-	1/SA6.15				
< ⊦	GP6B2-C	B/SA6.4	2/SA6.5		TP7A1-C	A/SA6.2	1/SA6.14								
$\geq$	GP6C2-C	B/SA6.4	2/SA6.5 (OH)		<i>TP7B1-C</i>	B/SA6.2	2/SA6.14		GP8A2-C	A/SA6.4	1/SA6.5				
ШЦ	GP6D2-C	C/SA6.4	1/SA6.5 (OH)		<i>TP7C1-C</i>	B/SA6.2	2/SA6.14 (OH)		GP8B2-C	B/SA6.4	2/SA6.5				
	SP6B2-C3	-	1/SA6.15		<i>TP7D1-C</i>	C/SA6.2	1/SA6.14 (OH)		GP8C2-C	B/SA6.4	2/SA6.5 (OH)				
-					SP7B1-C2	-	1/SA6.15		GP8D2-C	C/SA6.4	1/SA6.5 (OH)				
-	GP6A3-C	D/SA6.2	/1 3/SA6.5		0110102			$ \infty $	SP8B2-C3	-	1/SA6.15				
	GP6B3-C	E/SA6.2	// 3/ SA6.5		GP7A2-C	A/SA6.4	1/SA6.5								
╞	GP6C3-C	E/SA6.2	1 4/SA6.5 (OH)		GP7B2-C	B/SA6.4	2/SA6.5		GP8A3-C	D/SA6.2	/1 3/SA6.5				
╞	GP6D3-C	F/SA6.2	1 3/SA6.5 (OH)	NO.	GP7C2-C	B/SA6.4	2/SA6.5 (OH)		GP8B3-C	E/SA6.2	/1 4/SA6.5		L		
	SP6B3-C4	-	2/SA6.15		GP7D2-C	C/SA6.4	1/SA6.5 (OH)	Bf	GP8C3-C	E/SA6.2	1\4/SA6.5 (OH)		12	2/6/24 /1 Revised	Table Values
╞					SP7B2-C3	-	1/SA6.15		GP8D3-C	F/SA6.2	1 3/SA6.5 (OH)		F	DATE R	EVISION
╞	GP6A4-C	D/SA6.2	/1 3/SA6.5	BEI					SP8B3-C4	-	2/SA6.15			STATE OF HA	
╞	GP6B4-C	E/SA6.2	/1 4/SA6.5		GP7A3-C	A/SA6.2	/1 3/SA6.5						LICENSED	DEPARTMENT OF TRA HIGHWAYS DI	
	SP64		3/SA6.15		GP7B3-C	B/SA6.2	/\/ /1\4/SA6.5		BP8A4-C	A/SA6.10	1/SA6.12	(★	PROFESSIONAL ENGINEER ★	CONNECTION F	
┝	GP6C4-C	E/SA6.2	1\4/SA6.5 (OH)		GP7C3-C	B/SA6.2	1 4/SA6.5 (OH)		BP8B4-C	B/SA6.10	2/SA6.12	TEN	10. 17097-S	SCHED	
	GP6D4-C	F/SA6.2	1 3/SA6.5 (OH)		GP7D3-C	C/SA6.2	1 3/SA6.5 (OH)		SP84		3/SA6.15		RK WAS PREPARED BY	HAWAII BEI	
-	SP6B4-C5	- F7 SA0.2	2/SA6.15		SP7B3-C4		2/SA6.15		BP8C4-C	 B/SA6.10	2/SA6.12 (OH)	ME OR U	RK WAS PREPARED BY NDER MY SUPERVISION.	<u>Nanue Stream Bridg</u>	
-	5,007-03		21 340.13		JI I DJ-64				BP8C4-C	/1 C/SA6.10	1/SA6.12 (OH)	X	egh Petr 4-30-26	Federal Aid Project	
													EXPIRATION DATE OF THE LICENSE	Scale: As Noted	Date: Oct.
									1					SHEET NO.SA6.19	

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		1								FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR		TOTAL SHEETS
										HAWAII	HAW.	BR-019-2(077,	) 2024	ADD. 125	280
		CONNE	CTION REF	ERE	NCE SCHED	ULE									
	CONNECTION ID	PLAN DETAILS	ELEV. DETAILS		CONNECTION ID	PLAN DETAILS	ELEV. DETAILS		CON	INECTION ID	PLAN	DETAILS	ELEV.	DETAI	LS
				┨ ┝───											

															FED	D. ROAD STATE F	EDERAL AID FISCAL SHEET PROJ. NO. YEAR NO.
																	R-019-2(077) 2024 ADD. 12
						C	ONNFCT	ION REFE	RFA	ICF SCH							
CONNECTION	PLAN	ELEV. D	ETAILS		CONNECTION	PLAN				CONNECTION	PLAN	ELEV. I	DETAILS		CONNECTION	PLAN	
ID	DETAILS	UPSTREAM	DOWNSTREAM		ID	DETAILS	ELEV. D	ETAILS	=	ID	DETAILS	UPSTREAM	DOWNSTREAM		ID	DETAILS	ELEV. DETAILS
TP1A1-B	A/SA6.4	6/SA6.14	5/SA6.14		GP2B4-B	E/SA6.2	1/S/	46.7	<i>Q</i> ,	GP2D4-B	F/SA6.2	1/SA6.7	2/SA6.7		TP4B1-B	E/SA6.2	3/SA6.14
BP1A3-B	1 A/SA6.10	1/SA6.13	1/SA6.13	"B"	SP23B4	-	3/5/	46.16	LINE	SP23D4	-	3/SA6.16	3/SA6.16		TP5B1-B	B/SA6.2	3/SA6.14 (OH)
				LINE	GP3B4-B	B/SA6.2	1/SA6.	7 (OH)		GP3D4-B	C/SA6.2	1/SA6.7 (OH)	2/SA6.7 (OH)		SP45B1-3	-	1/SA6.16
<i>TP1B1-B</i>	B/SA6.4	5/SA6.14	5/SA6.14	IN F	SP23B4-5	-	1/S/	A <b>6.16</b>	COLUMN	SP23D4-5	-	1/SA6.16	1/SA6.16				
BP1B3-B	1 B/SA6.10	1/SA6.13	1/SA6.13	COLUMN					COL						GP4B3-B	E/SA6.2	1/SA6.7
		5 (010/1		- C(	BP2B5-B	B/SA6.10	2/SA6.		- 2		1\C/SA6.10	2/SA6.13 (OH)			SP45B3	-	3/SA6.16
TPICI-B	B/SA6.4	5/SA6.14	5/SA6.14	), 2	SP23B5	-	5/S/		NO.	SP23D5	-	5/SA6.16	5/SA6.16		GP5B3-B	B/SA6.2	1/SA6.7 (OH)
 BP1C3-B	1\B/SA6.10	1/SA6.13	1/SA6.13	NO.	GP3B5-B SP23B5-6	B/SA6.2		A6.8		GP3D5-B SP23D5-6	C/SA6.2	3/SA6.8	4/SA6.8		SP45B3-4	-	1/SA6.16
 TP1D1-B	CIENEA	E/SAC1A	E/SAE1A	STLE	31 2303-0	-	1/5/	10.//	STL	51 2305-0	-	1/SA6.17	1/SA6.17		GP4B4-B	E/SAG2	1/5/67
	C/SA6.4 1\C/SA6.10	5/SA6.14 1/SA6.13	6/SA6.14 1/SA6.13	TRESTLE	BP3B6-B	B/SA6.10 (OH)	2/0	46.13	TRES	BP3D6-B	C/SA6.10 (OH)	3/SA6.13	3/SA6.13	"B"	SP45B4	E/SA6.2	1/SA6.7 3/SA6.16
							57 51							NE "	GP5B4-B	B/SA6.2	1/SA6.7 (OH)
														LIN	SP45B4-5	-	1/SA6.16
TP2A1-B	D/SA6.2	4/SA6.14	3/SA6.14		TP2C1-B	E/SA6.2	3/5/	46.14		TP4A1-B	D/SA6.2	4/SA6.14	3/SA6.14	NN			
TP3A1-B	A/SA6.2	4/SA6.14 (OH)			TP3C1-B	B/SA6.2		14 (OH)		TP5A1-B	A/SA6.2		3/SA6.14 (OH)	COLUMN	GP4B5-B	E/SA6.2	1/SA6.7
SP23A1-3	-	1/SA6.16	1/SA6.16		SP23C1-3	-	1/S/	A <b>6.16</b>		SP45A1-3	-	1/SA6.16	1/SA6.16		SP45B5	-	3/SA6.16
														(m	GP5B5-B	B/SA6.2	1/SA6.7 (OH)
GP2A3-B	D/SA6.2	2/SA6.7	1/SA6.7		GP2C3-B	E/SA6.2	1/S/	46.7		GP4A3-B	D/SA6.2	2/SA6.7	1/SA6.7	NO.	SP45B5-6	-	1/SA6.16
SP23A3	-	3/SA6.16	3/SA6.16	"Ĵ"	SP23C3	-	3/5/	46.16		SP45A3	-	3/SA6.16	3/SA6.16	LE			
GP3A3-B	A/SA6.2	2/SA6.7 (OH)	1/SA6.7 (OH)		GP3C3-B	B/SA6.2	1/SA6.	7 (OH)		GP5A3-B	A/SA6.2	2/SA6.7 (OH)	1/SA6.7 (OH)	EST	GP4B6-B	E/SA6.2	1/SA6.7
SP23A3-4	-	1/SA6.16	1/SA6.16	LINE	SP23C3-4	-	1/S/	46.16		SP45A3-4	-	1/SA6.16	1/SA6.16	TRE	SP45B6	-	3/SA6.16
				NN	00004 0	<b>-</b> (0) 00			"Ą						GP5B6-B	B/SA6.2	1/SA6.7 (OH)
GP2A4-B	D/SA6.2	2/SA6.7	1/SA6.7	COLUN	GP2C4-B SP23C4	E/SA6.2		46.7	ц,	GP4A4-B	D/SA6.2	2/SA6.7	1/SA6.7		SP45B6-7	-	1/SA6.16
 SP23A4 GP3A4-B	-	3/SA6.16 2/SA6.7 (OH)	3/SA6.16	- C(	GP3C4-B	- B/SA6.2		A6.16	LINE	SP45A4 GP5A4-B	- A/SA6.2	3/SA6.16 2/SA6.7 (OH)	3/SA6.16 1/SA6.7 (OH)			D/SAC10	2/54612 (04)
 SP23A4-5	A/SA6.2	1/SA6.16	1/SA6.7 (OH) 1/SA6.16	2	SP23C4-5	D7 3A0.2		7 (OH) A6.16	COLUMN	SP45A4-5	A/ 3A0.2	1/SA6.16	1/SA6.16		BP4B7-B	B/SA6.10	2/SA6.13 (OH)
JI ZJAT J		17 SA0.10	17 340.10	NO.	07 200 7 0		17 Jr	40.70	070	<i>SI <del>1</del>5</i> <del>7</del> 5		17 SA0.10	17 SA0.10		SP45B7 GP5B7-B	B/SA6.2	1/SA6.8
 BP2A5-B	A/SA6.10	2/SA6.13 (OH)	2/SA6.13 (OH)	STLE	BP2C5-B	B/SA6.10	2/SA6.	13 (OH)		GP4A5-B	D/SA6.2	2/SA6.7	1/SA6.7		SP45B7-8	-	4/SA6.16
SP23A5	-	5/SA6.16	5/SA6.16	EST	SP23C5	-	5/S/		3	SP45A5	-	3/SA6.16	3/SA6.16				
GP3A5-B	A/SA6.2	4/SA6.8	3/SA6.8	TRE.	GP3C5-B	B/SA6.2		A6.8	NO.	GP5A5-B	A/SA6.2	2/SA6.7 (OH)	1/SA6.7 (OH)		BP5B8-B	B/SA6.10 (OH)	3/SA6.13
SP23A5-6	-	1/SA6.17	1/SA6 <b>.</b> 17		SP23C5-6	-	1/S/	46.17	LLE	SP45A5-6	-	1/SA6.16	1/SA6.16				
									EST								
BP3A6-B	A/SA6.10 (OH)	3/SA6.13	3/SA6.13		BP3C6-B	B/SA6.10 (OH)	3/5/	46.13	TRE	GP4A6-B	D/SA6.2	2/SA6.7	1/SA6.7				
										SP45A6	-	3/SA6.16	3/SA6.16		I	I	
	1					,	<b></b>			GP5A6-B	A/SA6.2	2/SA6.7 (OH)	1/SA6.7 (OH)		1	2/6/24 /1	Revised Table Values
CONNECTION	PLAN DETAILS	ELEV. D	DETAILS	"D"	CONNECTION	PLAN DETAILS	ELEV. D					1/04040	1/04040			DATE	
TP2B1-B	E/SA6.2	2/0	A6.14	INE	TP2D1-B	F/SA6.2	UPSTREAM 3/SA6.14	DOWNSTREAM 4/SA6.14		SP45A6-7	-	1/SA6.16	1/SA6.16				REVISION STATE OF HAWAII
 TP3B1-B	<i>E7 SA6.2</i> <i>B/SA6.2</i>	3/SA6.			ТР2DI-В ТР3D1-В		3/SA6.14 (OH)				A/SA6.10	2/51812 (04)	2/SA6.13 (OH)	121	LICENSED	DEPAR	TMENT OF TRANSPORTATION HIGHWAYS DIVISION
 SP23B1-3	-		A6.16	C01.	SP23D1-3	- U/ JAU.Z	1/SA6.16	1/SA6.16		<u>BP4A7-B</u> SP45A7	A/ 3A0.10 -	2/SA6.15 (UH) 2/SA6.16	2/SA6.15 (011) 2/SA6.16	★	PROFESSIONAL O ENGINEER ★	CONNEC	CTION REFERENCE
				2 -			17 570.10	17 0710.10			A/SA6.2	2/SA6.8	1/SA6.8	H	NO. 17097-S		SCHEDULE
GP2B3-B	E/SA6.2	1/S/	A6.7	NO.	GP2D3-B	F/SA6.2	1/SA6.7	2/SA6.7		SP45A7-8	-	4/SA6.16	4/SA6.16			НДИ	AII BELT ROAD
SP23B3	-		A6.16	STLE	SP23D3	-	3/SA6.16	3/SA6.16		JI TJAI U					RK WAS PREPARED BY NDER MY SUPERVISION.	Nanue Stre	am Bridge Rehabilitatio
 GP3B3-B	B/SA6.2	1/SA6.		REST	GP3D3-B	C/SA6.2		2/SA6.7 (OH)		BP5A8-B	A/SA6.10 (OH	) 3/SA6.13	3/SA6.13	S	egh Per 4-30-26		Project No. BR-019-2(
 SP23B3-4	-	1/SA		<u>_</u>	SP23D3-4	-	1/SA6.16	1/SA6.16			1			SIGNATURE	expiration date of the license	Scale: As Note	d Date: Oct.

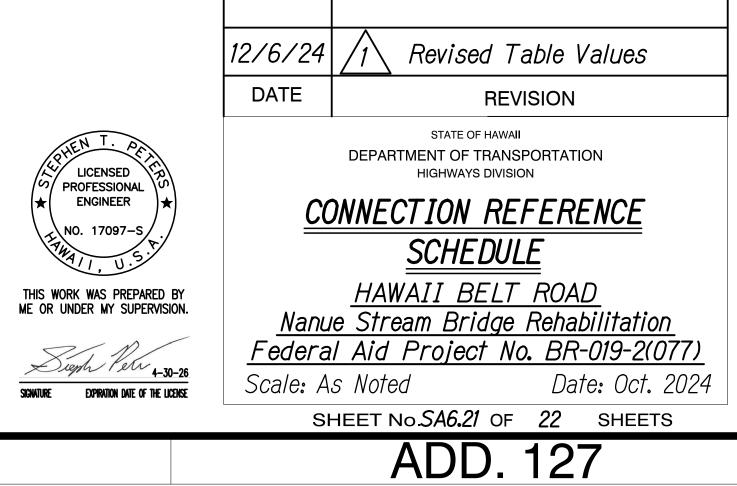
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														FED. DIS	T. NO. PRO	ERAL AID DJ. NO.FISCAL YEARSHEET NO.
												I		HA	wali haw. <i>BR-01</i>	9-2(077) 2024 ADD. 127
					(	CONNECT	ION REFE	EREN	ICE SCHL	EDULE						
CONNECTION ID	PLAN DETAILS	ELEV. DETAILS		CONNECTION ID	PLAN DETAILS	ELEV. UPSTREAM	DETAILS DOWNSTREAM		CONNECTION ID	PLAN DETAILS	ELEV. UPSTREAM	DETAILS DOWNSTREAM		CONNECTION ID	PLAN DETAILS	ELEV. DETAILS
TP4C1-B	E/SA6.2	3/SA6.14		TP4D1-B	F/SA6.2	3/SA6.14	4/SA6.14		TP6A1-B	D/SA6.2	4/SA6.14	3/SA6.14		TP6B1-B	E/SA6.2	3/SA6.14
TP5C1-B	B/SA6.2	3/SA6.14 (OH)		TP5D1-B	C/SA6.2		4/SA6.14 (OH)	-	TP7A1-B	A/SA6.2		3/SA6.14 (OH)		TP7B1-B	B/SA6.2	3/SA6.14 (OH)
SP45C1-3	-	1/SA6.16		SP45D1-3	-	1/SA6.16	1/SA6.16		SP67A1-3	-	1/SA6.16	1/SA6.16		SP67B1-3	-	1/SA6.16
GP4C3-B	E/SA6.2	1/SA6.7	_	GP4D3-B	F/SA6.2	1/SA6.7	2/SA6.7		GP6A3-B	D/SA6.2	2/SA6.7	1/SA6.7		GP6B3-B	E/SA6.2	1/SA6.7
SP45C3	-	3/SA6.16	_	SP45D3	-	3/SA6.16	3/SA6.16		SP67A3	-	3/SA6.16	3/SA6.16		SP67B3	-	3/SA6.16
GP5C3-B	B/SA6.2	1/SA6.7 (OH)	_	GP5D3-B	C/SA6.2		2/SA6.7 (OH)		GP7A3-B	A/SA6.2		1/SA6.7 (OH)		GP7B3-B	B/SA6.2	1/SA6.7 (OH)
SP45C3-4	-	1/SA6.16		SP45D3-4	-	1/SA6.16	1/SA6.16	Ă,	SP67A3-4	-	1/SA6.16	1/SA6.16	"B	SP67B3-4	-	1/SA6.16
			,,D,,,					INE					INE			
GP4C4-B	E/SA6.2	1/SA6.7		GP4D4-B	F/SA6.2	1/SA6.7	2/SA6.7		GP6A4-B	D/SA6.2	2/SA6.7	1/SA6.7		GP6B4-B	E/SA6.2	1/SA6.7
SP45C4	-	3/SA6.16		SP45D4	-	3/SA6.16	3/SA6.16	<	SP67A4	-	3/SA6.16	3/SA6.16	<	SP67B4	-	3/SA6.16
GP5C4-B	B/SA6.2	1/SA6.7 (OH)		GP5D4-B	C/SA6.2	1/SA6.7 (OH)	2/SA6.7 (OH)	NMN	GP7A4-B	A/SA6.2	2/SA6.7 (OH)	1/SA6.7 (OH)	NMN	GP7B4-B	B/SA6.2	1/SA6.7 (OH)
SP45C4-5	-	1/SA6.16		SP45D4-5	-	1/SA6.16	1/SA6.16	070	SP67A4-5	-	1/SA6.16	1/SA6.16	070	SP67B4-5	-	1/SA6.16
GP4C5-B	E/SA6.2	1/SA6.7	770	GP4D5-B	F/SA6.2	1/SA6.7	2/SA6.7		GP6A5-B	D/SA6.2	2/SA6.7	1/SA6.7		GP6B5-B	E/SA6.2	1/SA6.7
SP45C5	-	3/SA6.16		SP45D5	-	3/SA6.16	3/SA6.16	4	SP67A5	-	3/SA6.16	3/SA6.16	4	SP67B5	-	3/SA6.16
GP5C5-B	B/SA6.2	1/SA6.7 (OH)		GP5D5-B	C/SA6.2	1/SA6.7 (OH)	2/SA6.7 (OH)	NO.	GP7A5-B	A/SA6.2	2/SA6.7 (OH)	1/SA6.7 (OH)	NO.	GP7B5-B	B/SA6.2	1/SA6.7 (OH)
SP45C5-6	-	1/SA6.16	0.	SP45D5-6	-	1/SA6.16	1/SA6.16		SP67A5-6	-	1/SA6.16	1/SA6.16		SP67B5-6	-	1/SA6.16
GP4C6-B	E/SA6.2	1/SA6.7		GP4D6-B	F/SA6.2	1/SA6.7	2/SA6.7	STL	GP6A6-B	D/SA6.2	2/SA6.7	1/SA6.7	STL	GP6B6-B	E/SA6.2	1/SA6.7
SP45C6	-	3/SA6.16		SP45D6	-	3/SA6.16	3/SA6.16	RE	SP67A6	-	3/SA6.16	3/SA6.16		SP67B6	-	3/SA6.16
GP5C6-B	B/SA6.2	1/SA6.7 (OH)		GP5D6-B	C/SA6.2	1/SA6.7 (OH)	2/SA6.7 (OH)		BP7A6-B	A/SA6.10 (OH)	2/SA6.13	2/SA6.13	TR		B/SA6.10 (OH)	2/SA6.13
SP45C6-7	-	1/SA6.16	TRI	SP45D6-7	-	1/SA6.16	1/SA6.16									
									GP6A7-B	D/SA6.2	2/SA6.9	1/SA6.9		GP6B7-B	E/SA6.2	1/SA6.9
BP4C7-B	B/SA6.10	2/SA6.13 (OH)	_		1\C/SA6.10		2/SA6.13 (OH)		SP67A6-7	-	2/SA6.17	2/SA6.17		SP67B6-7	-	2/SA6.17
SP45C7	-	2/SA6.16	_	SP45D7	-	2/SA6.16	2/SA6.16				• • • • • • •					
GP5C7-B	B/SA6.2	1/SA6.8	_	GP5D7-B	C/SA6.2	1/SA6.8	2/SA6.8		BP6A8-B	A/SA6.10	3/SA6.13 (OH)	3/SA6.13 (OH)		BP6B8-B	B/SA6.10	3/SA6.13 (OH)
SP45C7-8	-	4/SA6.16	_	SP45D7-8	-	4/SA6.16	4/SA6.16									
BP5C8-B	B/SA6.10 (OH)	3/SA6.13	-	BP5D8-B	C/SAG10 (OH)	3/SA6.13	3/SA6.13									

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Contraction of the second sec HNO. 17097-S

CONNECTION ID	PLAN DETAILS	ELEV. DETAILS		CONNECTION ID	PLAN DETAILS	ELEV. UPSTREAM	DETAILS DOWNSTREAM		CONNECTION ID	PLAN DETAILS	ELEV. UPSTREAM	DETAILS		CONNECTION ID	PLAN DETAILS	ELEV.	DETAILS
TP6C1-B	E/SA6.2	3/SA6.14		TP6D1-B	F/SA6.2	3/SA6.14	4/SA6.14		TP8A1-B	D/SA6.2	4/SA6.14	3/SA6.14		TP8C1-B	E/SA6.2	3/5	SA6.14
TP7C1-B	B/SA6.2	3/SA6.14 (OH)		TP7D1-B	C/SA6.2	3/SA6.14 (OH)	4/SA6.14 (OH)	"A"	TP9A1-B	A/SA6.2	4/SA6.14 (OH)	3/SA6.14 (OH)	۲. ريا	TP9C1-B	B/SA6.2	3/SA6	5.14 (OH)
SP67C1-3	-	1/SA6.16		SP67D1-3	-	1/SA6.16	1/SA6.16	INE "	SP89A1-3	-	1/SA6.16	1/SA6.16	NE "	SP89C1-3	-	1/S.	A6.16
 GP6C3-B	E/SA6.2	1/SA6.7		GP6D3-B	F/SA6.2	1/SA6.7	2/SA6.7		GP8A3-B	D/SA6.2	2/SA6.8 (OH)	1/SA6.8 (OH)	N TI	GP8C3-B	E/SA6.2	1/SA6	.8 (OH)
SP67C3	-	3/SA6.16		SP67D3	-	3/SA6.16	3/SA6.16	COLUMN	SP89A3	- /	1 2/SA6.16 (OH) /	1 2/SA6.16 (OH)	W	SP89C3	-	1 2/SA6	.16 (OH)
GP7C3-B	B/SA6.2	1/SA6.7 (OH)		GP7D3-B	C/SA6.2	1/SA6.7 (OH)	2/SA6.7 (OH)	071	BP9A3-B	A/SA6.10 (OH)	2/SA6.13	2/SA6.13	COLI	BP9C3-B	B/SA6.10 (OH)	2/5	A6.13
SP67C3-4	-	1/SA6.16		SP67D3-4	-	1/SA6.16	1/SA6.16	l	SP89A3-4	-	4/SA6.16 (OH)	4/SA6.16 (OH)		SP89C3-4	-	4/SA6	5.16 (OH)
GP6C4-B	E/SA6.2	1/SA6.7		GP6D4-B	F/SA6.2	1/SA6.7	2/SA6.7	NO. 5	BP8A4-B	A/SA6.10	3/SA6.13 (OH)	3/SA6.13 (OH)	NO. 5	BP8C4-B	B/SA6.10	3/SA6	.13 (OH)
SP67C4	-	3/SA6.16		SP67D4	-	3/SA6.16	3/SA6.16										
GP7C4-B	B/SA6.2	1/SA6.7 (OH)		GP7D4-B	C/SA6.2	1/SA6.7 (OH)	2/SA6.7 (OH)	TLE									
SP67C4-5	-	1/SA6.16		SP67D4-5	-	1/SA6.16	1/SA6.16	RES					SES.				
			_  ၓ														
GP6C5-B	E/SA6.2	1/SA6.7		GP6D5-B	F/SA6.2	1/SA6.7	2/SA6.7										
SP67C5	-	3/SA6.16		SP67D5	-	3/SA6.16	3/SA6.16										
GP7C5-B	B/SA6.2	1/SA6.7 (OH)		GP7D5-B	C/SA6.2	1/SA6.7 (OH)	2/SA6.7 (OH)		CONNECTION	PLAN	FIFV	DETAILS		CONNECTION	PLAN	ELEV.	. DETAILS
SP67C5-6	-	1/SA6.16		SP67D5-6	-	1/SA6.16	1/SA6.16	"B"	ID	DETAILS		JET AILS		ID	DETAILS	UPSTREAM	DOWNST
									<i>TP8B1-B</i>	E/SA6.2	3/5	SA6.14		TP8D1-B	F/SA6.2	3/SA6.14	4/SA
GP6C6-B	E/SA6.2	1/SA6.7	S	GP6D6-B	F/SA6.2	1/SA6.7	2/SA6.7	LINE	<i>TP9B1-B</i>	B/SA6.2	3/SA6	5.14 (OH)		TP9D1-B	C/SA6.2	3/SA6.14 (OH)	4/SA6.14
SP67C6	-	3/SA6.16		SP67D6	-	3/SA6.16	3/SA6.16		SP89B1-3	-	1/5	A6.16		SP89D1-3	-	1/SA6.16	1/SA
BP7C6-B	B/SA6.10 (OH)	2/SA6.13		BP7D6-B	C/SA6.10 (OH)	2/SA6.13	2/SA6.13	NMN		5 (0100			NU		5 (0100		
		1/0400				1/0400		COL	GP8B3-B	E/SA6.2	^	5.8 (OH)	COL	GP8D3-B	F/SA6.2	•	2/SA6.8
GP6C7-B	E/SA6.2	1/SA6.9		GP6D7-B	F/SA6.2	1/SA6.9	2/SA6.9	1	SP89B3			5.16 (OH)		SP89D3	h	12/SA6.16 (OH) /	
SP67C6-7	-	2/SA6.17	-	SP67D6-7	-	2/SA6.17	2/SA6.17	J. 5	BP9B3-B SP89B3-4	B/SA6.10 (OH) -		5A6.13 5.16 (OH)	0.5	BP9D3-B SP89D3-4	/; C/SA6.10 (OH) -	2/SA6.13 4/SA6.16 (OH)	2/SA 4/SA6.1
BP6C8-B	B/SA6.10	3/SA6.13 (OH)		BP6D8-B	1 C/SA6.10	3/SA6.13 (OH)	3/SA6.13 (OH)	E NO.					E NO.				
								RESTLE	BP8B4-B	B/SA6.10	3/SA6	5.13 (OH)	STL	BP8D4-B	/1\C/SA6.10	3/SA6.13 (OH)	3/SA6.1.

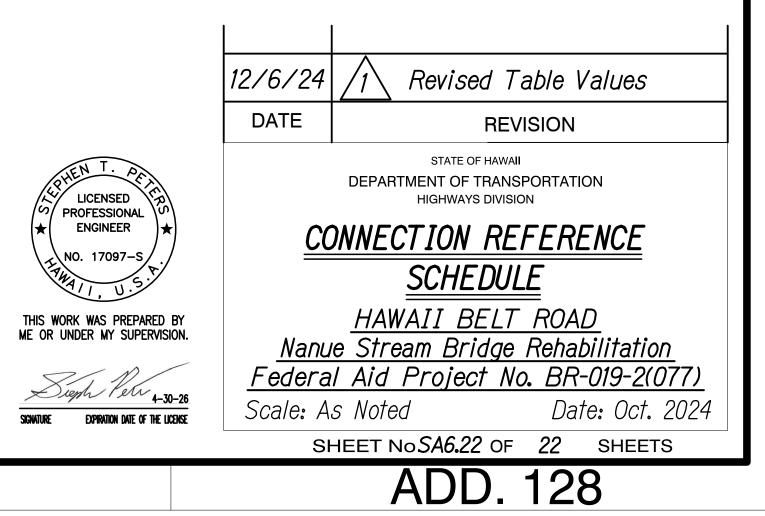
AMF 7-) ON ONCOINCY 33-022 9-NANLIF STR BR PF2-DOTHY 01 CADY 12-06-24 ADD2\ NSR-SA0618-SA0622 CON DTLS SCHD ADD2.DWG PLOT TIMF: 12-

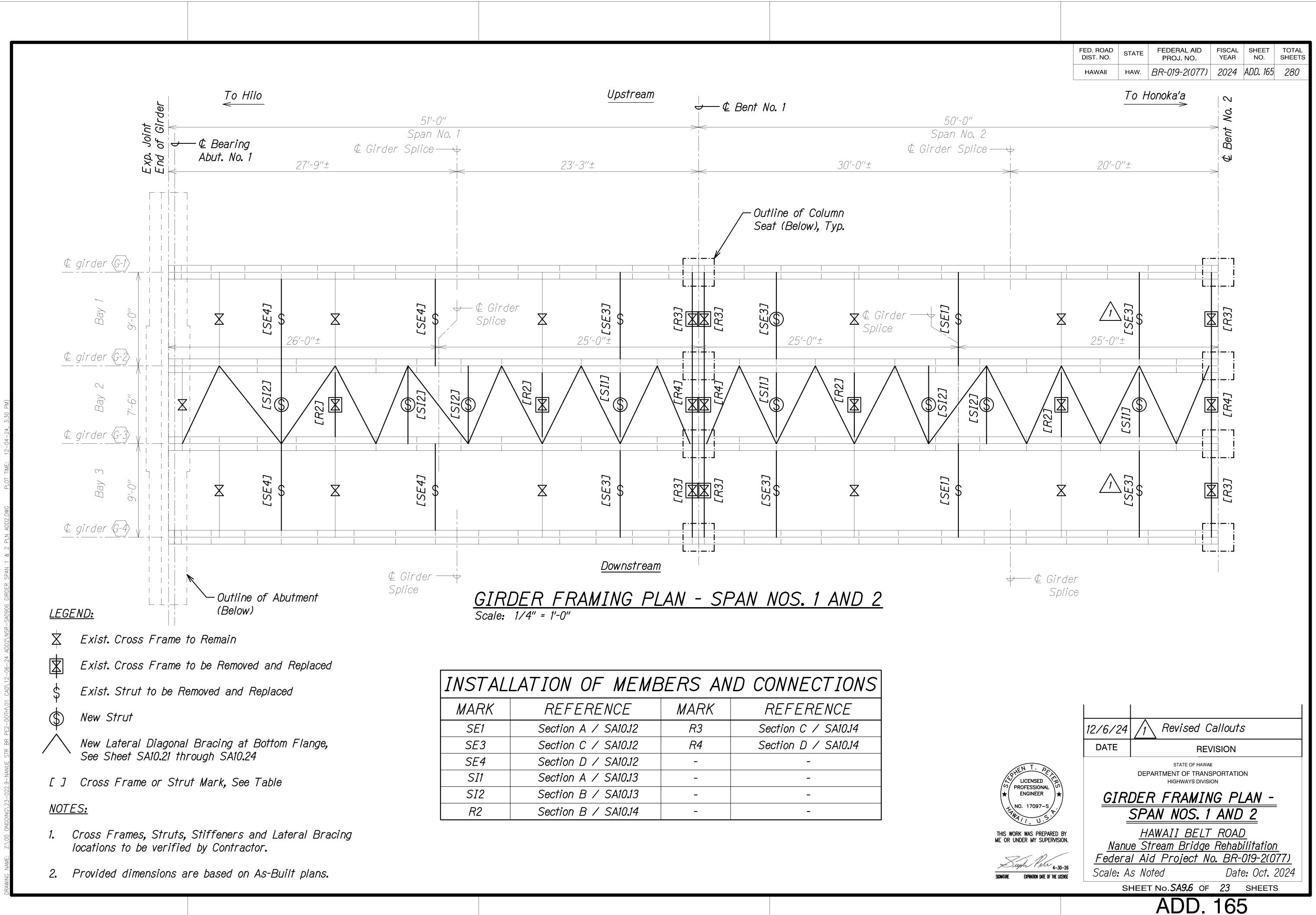
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 128	280





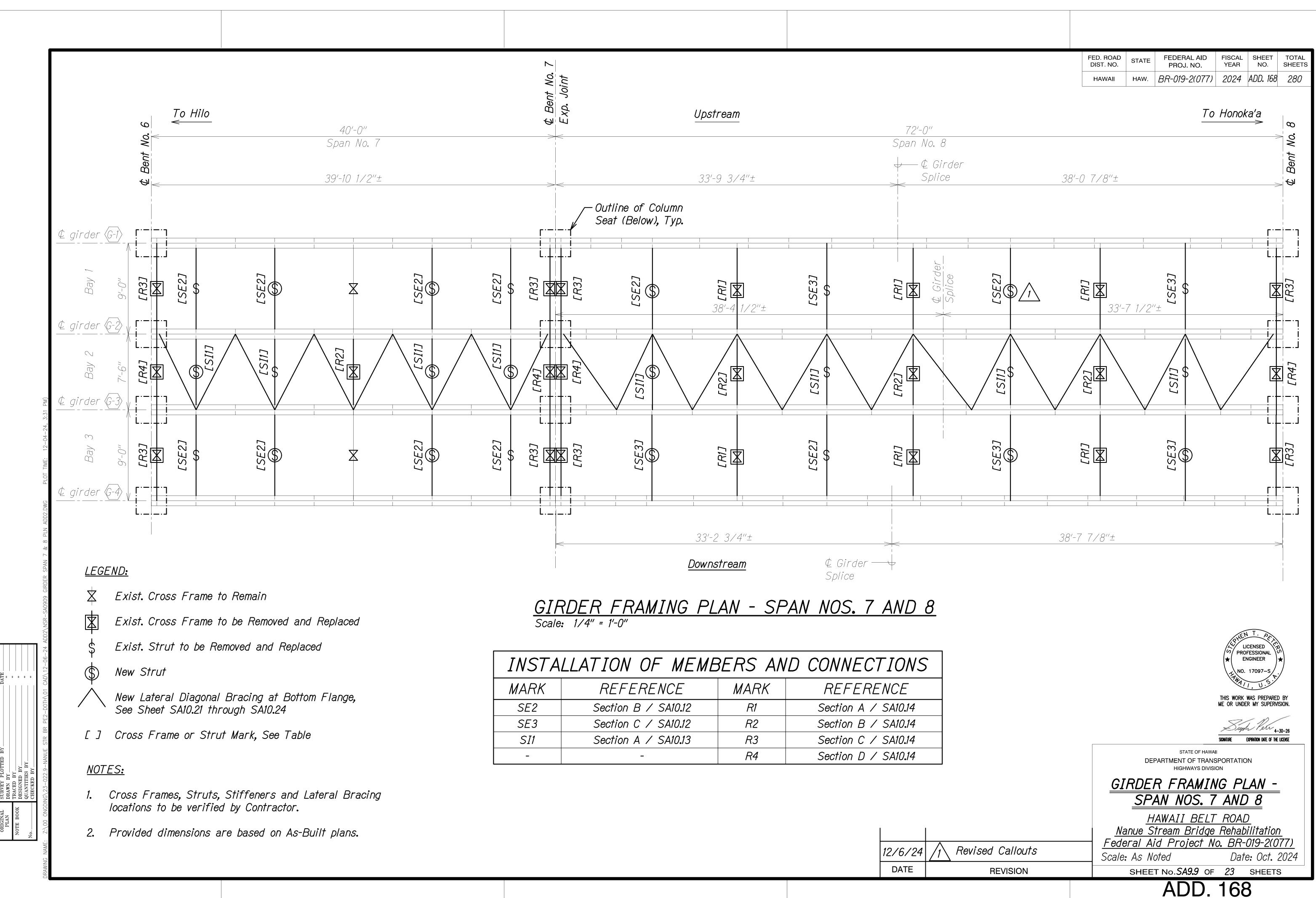
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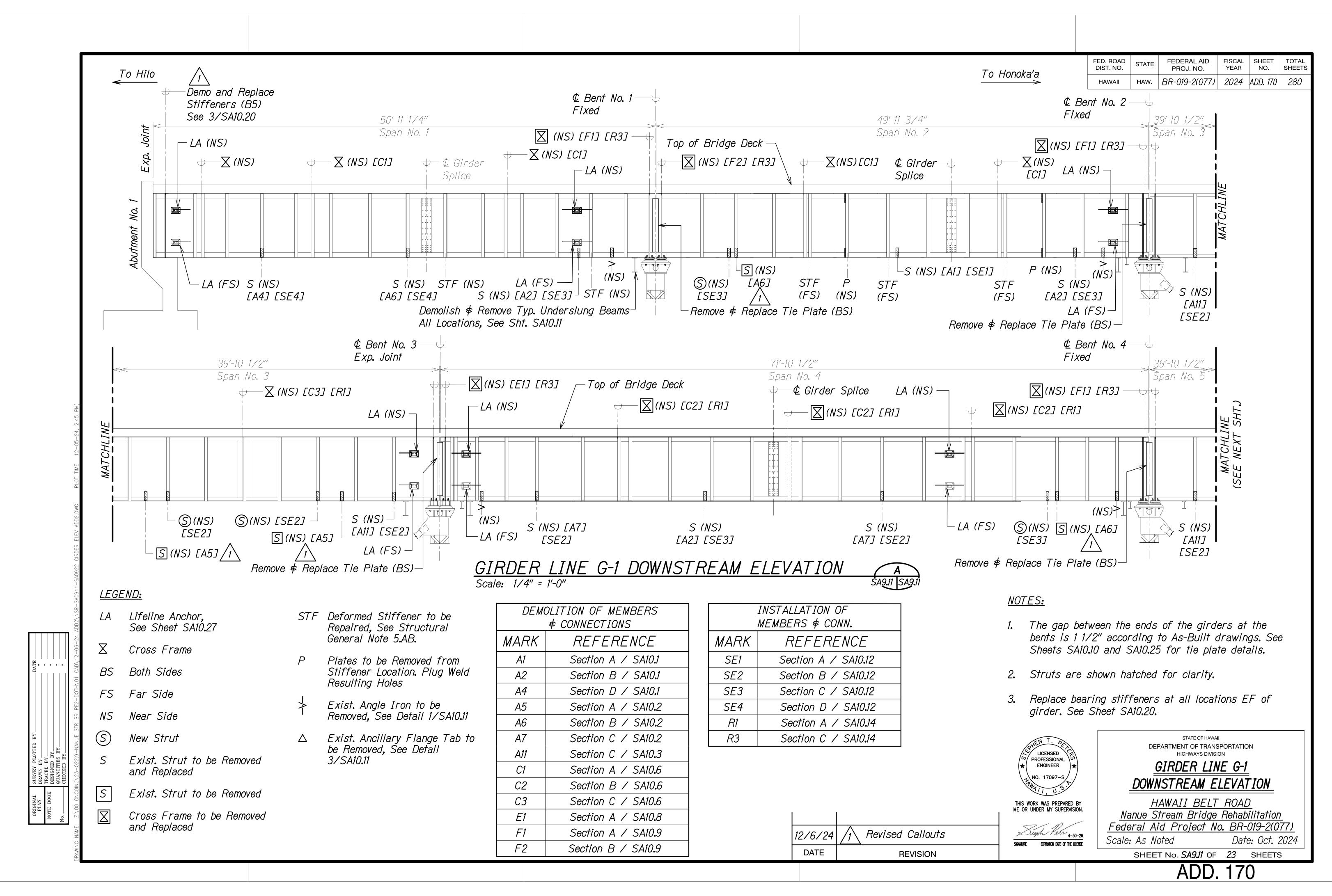
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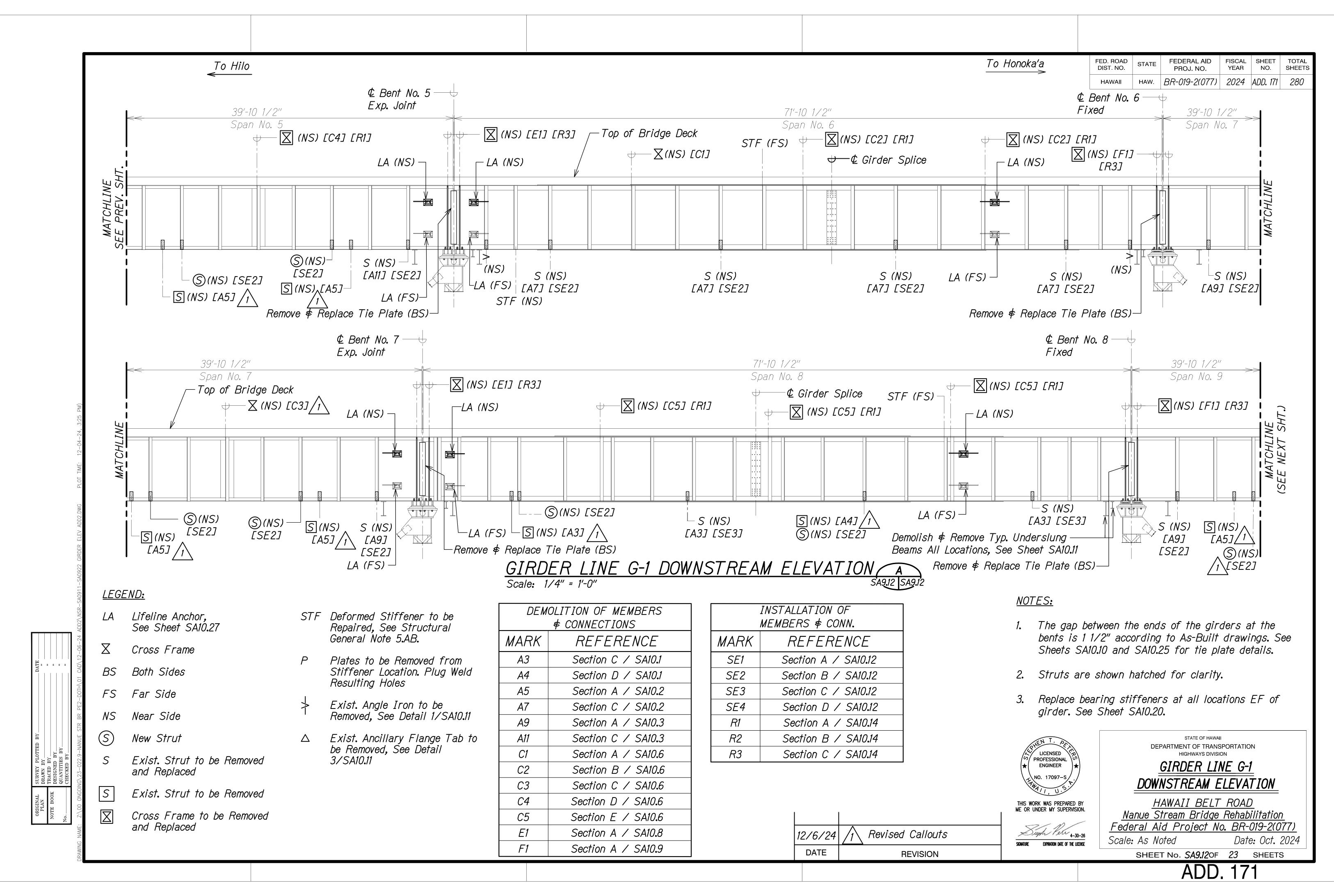
<u> </u>		<u> </u>	<b>FLAN</b>	<u>- JLAN</u>	<u>NUS. 1</u>	AND
Scale: 1/4	4" = 1'-0	//				

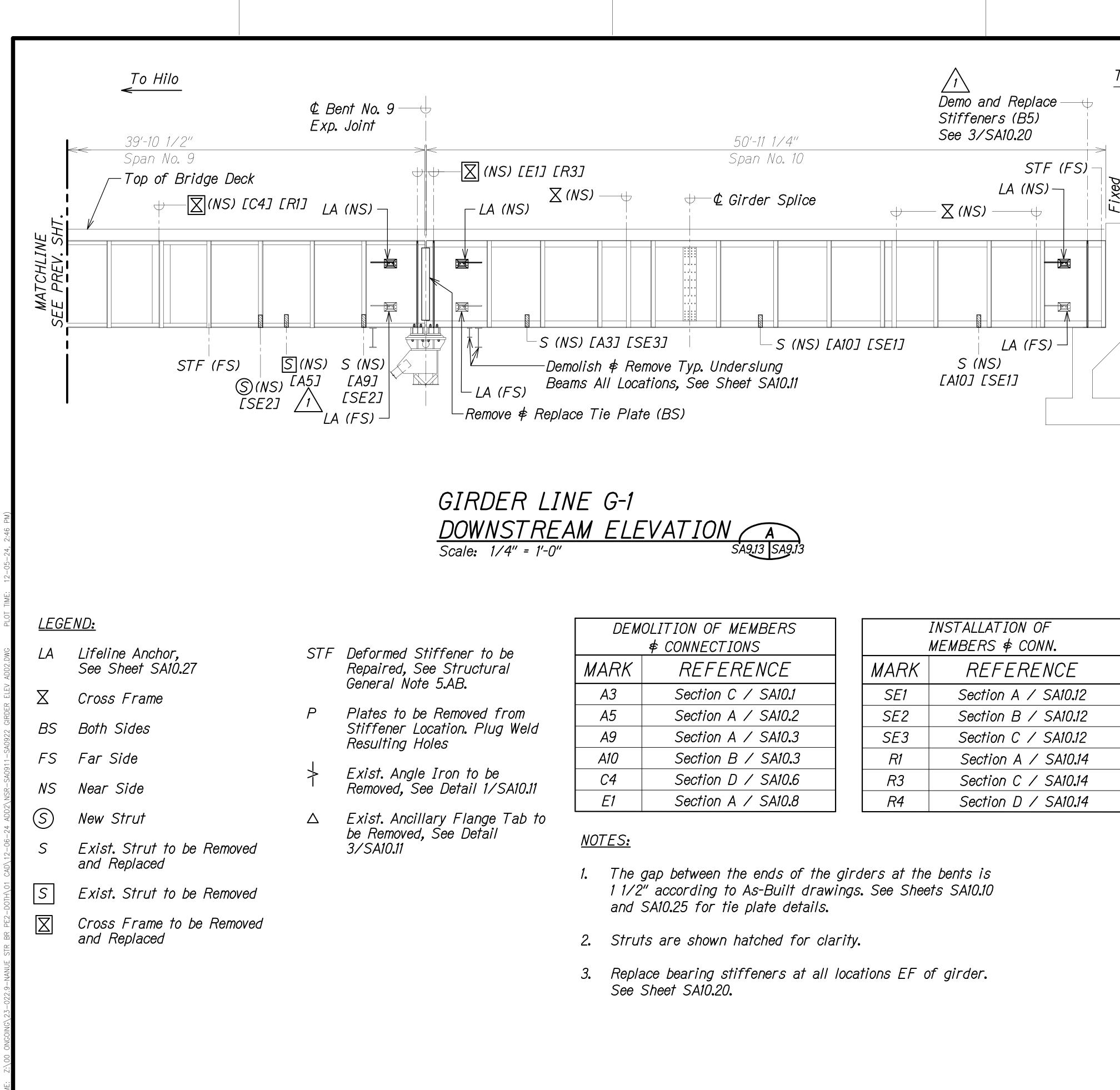
INSTAL	LATION OF MEME	BERS AN	D CONNECTIONS
MARK	REFERENCE	MARK	REFERENCE
SE1	Section A / SA10.12	R3	Section C / SA10.14
SE3	Section C / SA10.12	R4	Section D / SA10.14
SE4	Section D / SA10.12	-	_
SI1	Section A / SA10.13	-	_
SI2	Section B / SA10.13	-	_
R2	Section B / SA10.14	-	_



INSTALLATION OF MEMBERS AND CONNECT.					
MARK	REFERENCE	MARK	REFEREN		
SE2	Section B / SA10.12	R1	Section A / S		
SE3	Section C / SA10.12	R2	Section B / S		
SI1	Section A / SA10.13	<i>R3</i>	Section C / S		
-	-	R4	Section D / S		







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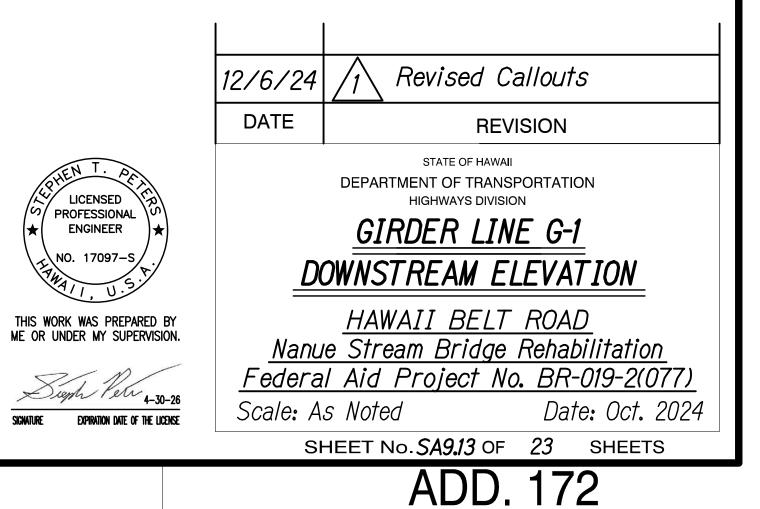
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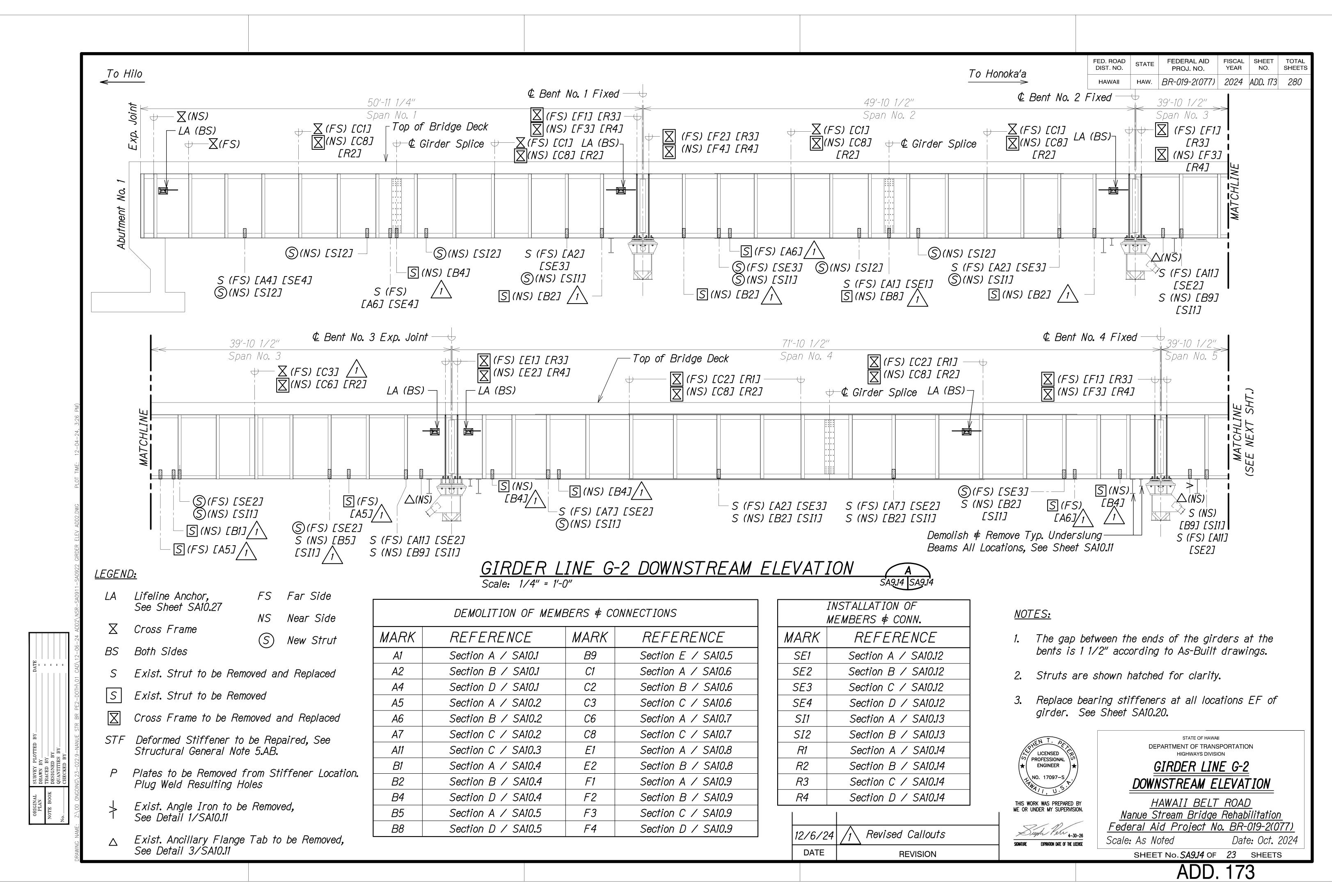
DEM		
ARK	REFERENCE	MA
A3	Section C / SA10.1	Si
A5	Section A / SA10.2	SŁ
A9	Section A / SA10.3	SŁ
A10	Section B / SA10.3	F
<i>C4</i>	Section D / SA10.6	R
E1	Section A / SA10.8	R

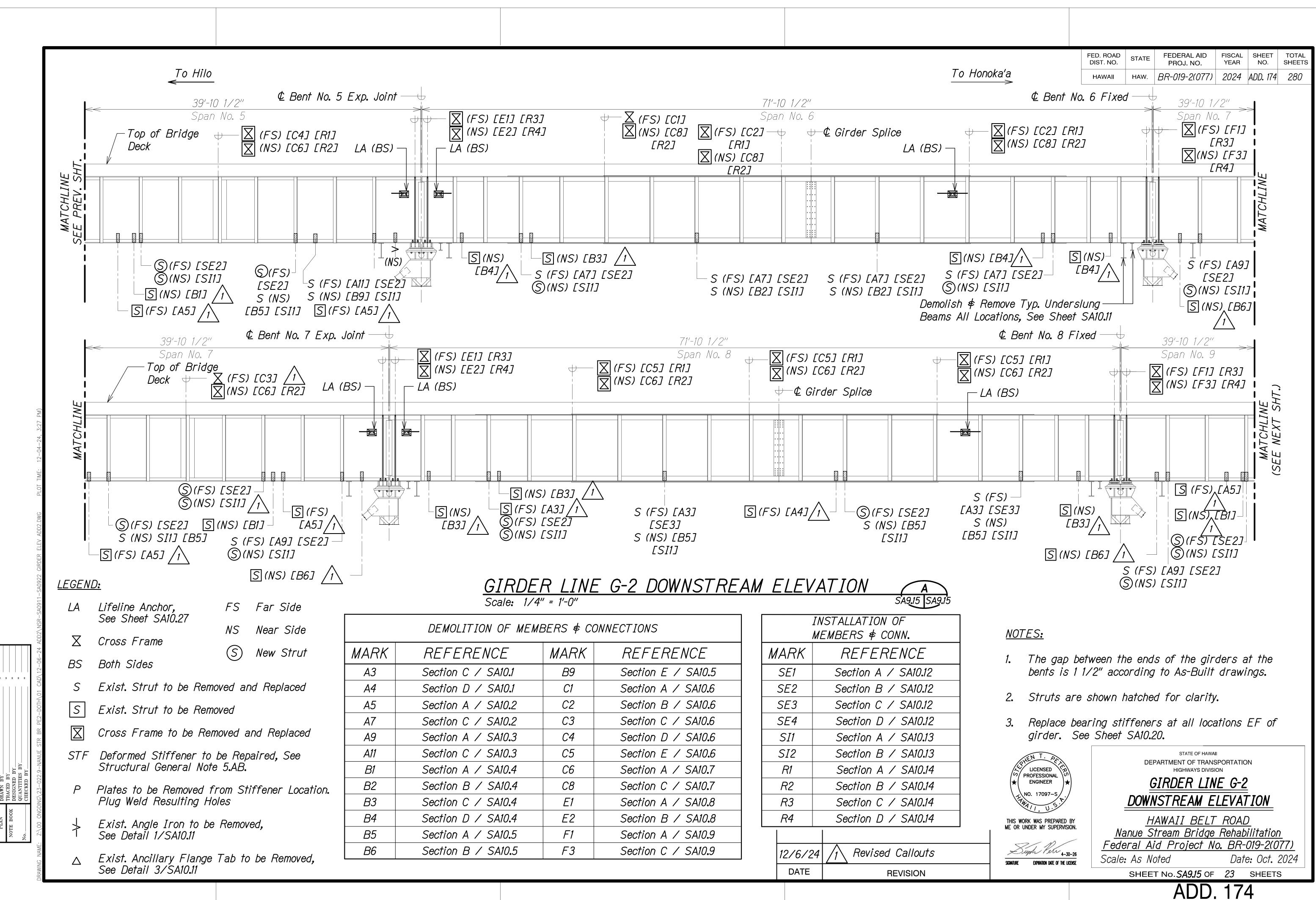
INSTALLATION OF					
	MEMBERS & CONN.				
MARK	REFERENCE				
SE1	Section A / SA10.12				
SE2	Section B / SA10.12				
SE3	Section C / SA10.12				
R1	Section A / SA10.14				
R3	Section C / SA10.14				
R4	Section D / SA10.14				

	FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
To Honoka'a	HAWAII	HAW.	BR-019-2(077)	2024	ADD. 172	280

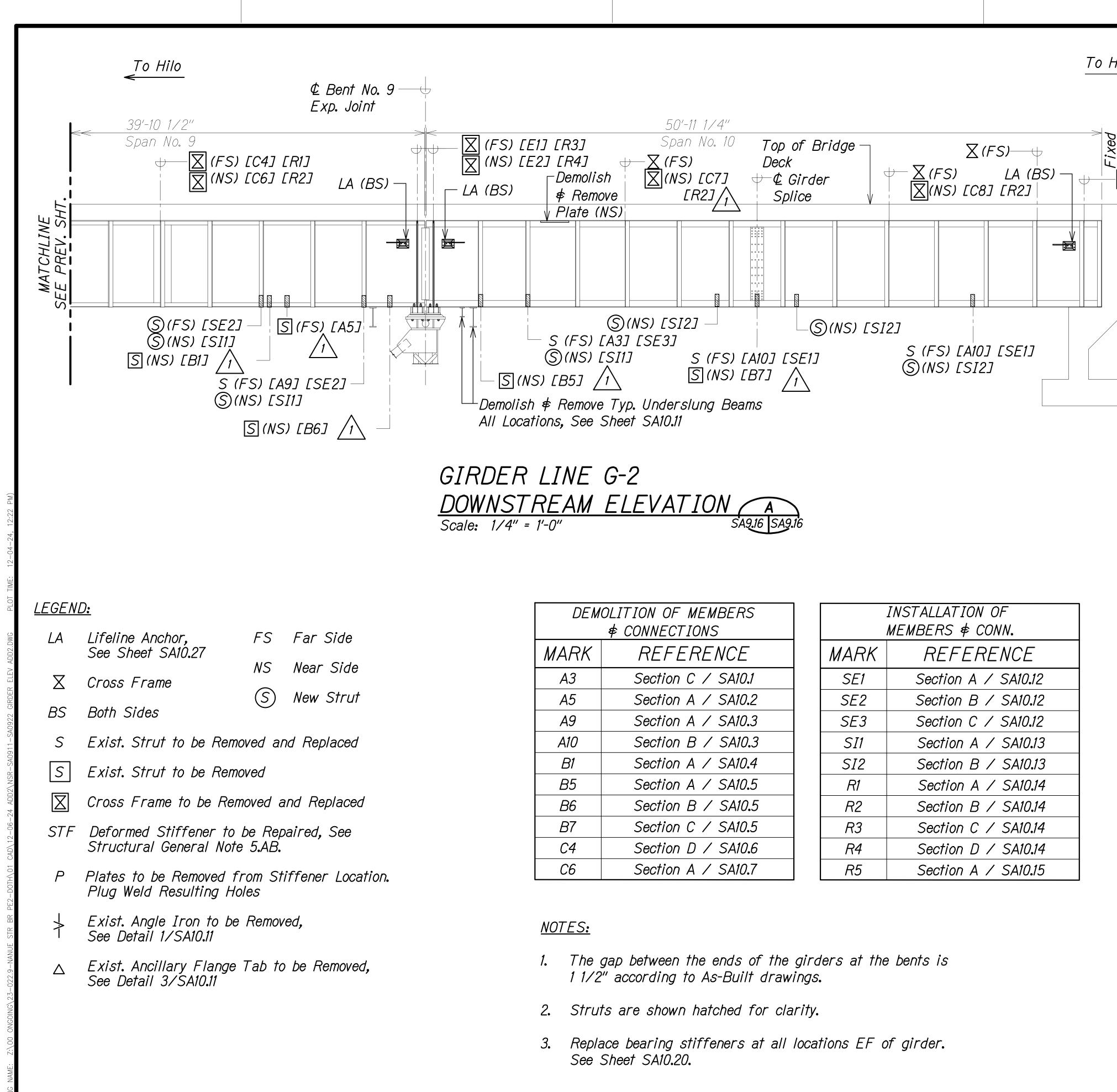
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	No.
	snt
	me
	ut,







	DEMOLITION OF MEM	BERS & CO	ONNECTIONS		INSTALLATION MEMBERS ¢ CO
7 <i>K</i>	REFERENCE	MARK	REFERENCE	MARK	REFER
3	Section C / SA10.1	<i>B9</i>	Section E / SA10.5	SE1	Section A /
1	Section D / SA10.1	C1	Section A / SA10.6	SE2	Section B /
5	Section A / SA10.2	C2	Section B / SA10.6	SE3	Section C /
7	Section C / SA10.2	С3	Section C / SA10.6	SE4	Section D ,
9	Section A / SA10.3	C4	Section D / SA10.6	SI1	Section A
1	Section C / SA10.3	C5	Section E / SA10.6	SI2	Section B ,
1	Section A / SA10.4	<i>C6</i>	Section A / SA10.7	<i>R1</i>	Section A .
2	Section B / SA10.4	<i>C8</i>	Section C / SA10.7	R2	Section B .
3	Section C / SA10.4	E1	Section A / SA10.8	R3	Section C ,
7	Section D / SA10.4	E2	Section B / SA10.8	R4	Section D .
5	Section A / SA10.5	F1	Section A / SA10.9		
5	Section B / SA10.5	F3	Section C / SA10.9	12/6/	/24 1 Revised
				DAT	E F



BY\_\_\_\_\_ BY\_\_\_\_ ED\_\_BY\_\_\_\_ BY\_\_\_\_

H. . . . .

SURV DRAW TRAC DESI QUAN CHEC



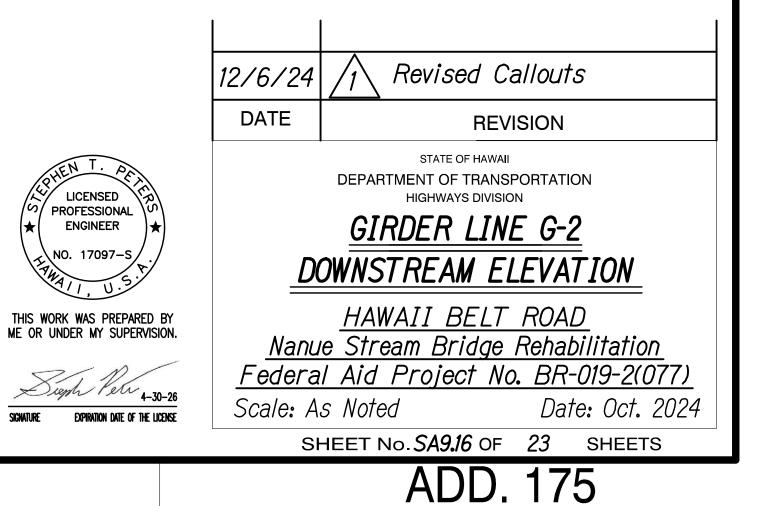
DEM	DEMOLITION OF MEMBERS					
	¢ CONNECTIONS					
MARK	REFERENCE					
A3	Section C / SA10.1					
A5	Section A / SA10.2					
A9	Section A / SA10.3					
A10	Section B / SA10.3					
B1	Section A / SA10.4					
<i>B</i> 5	Section A / SA10.5					
<i>B6</i>	Section B / SA10.5					
<i>B</i> 7	Section C / SA10.5					
C4	Section D / SA10.6					
C6	Section A / SA10.7					

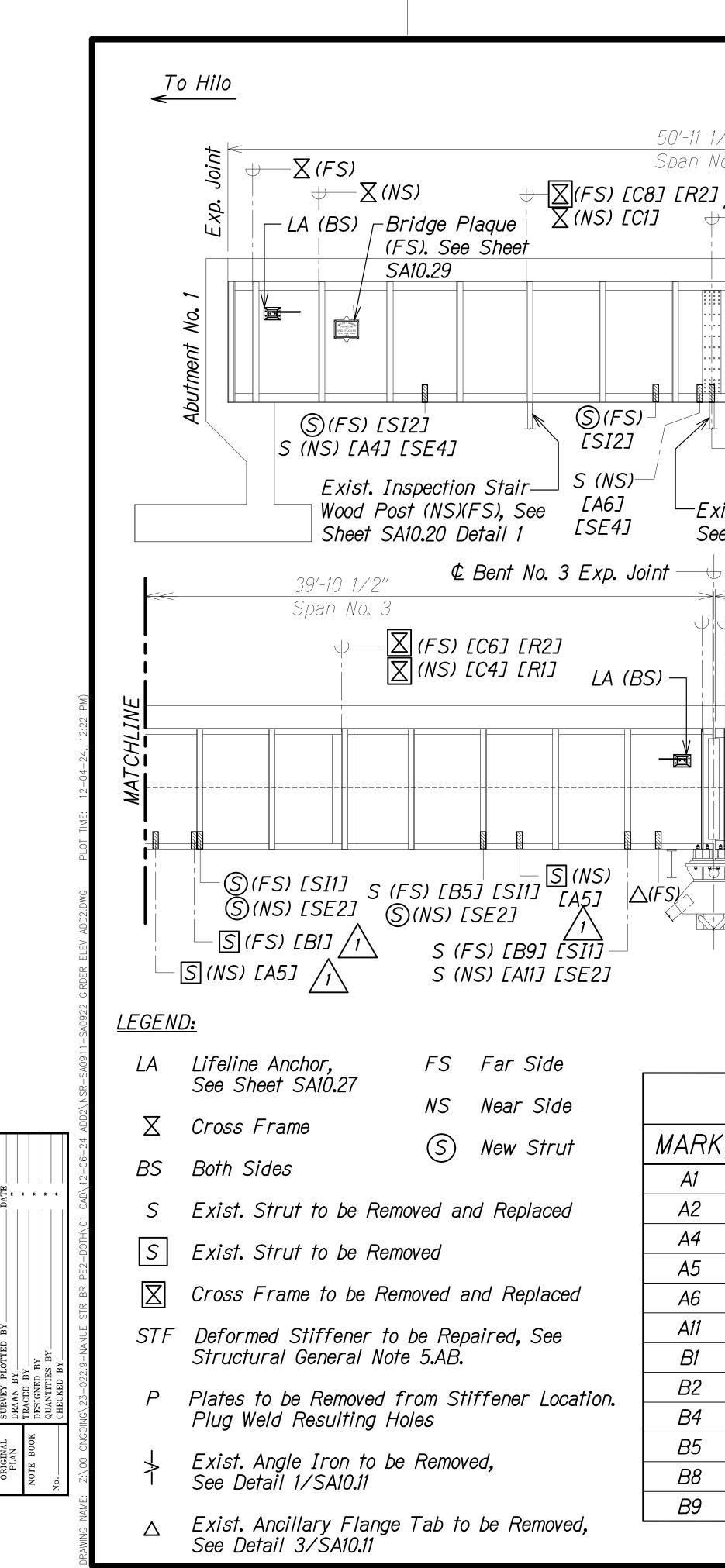
	INSTALLATION OF
	MEMBERS & CONN.
MARK	REFERENCE
SE1	Section A / SA10.12
SE2	Section B / SA10.12
SE3	Section C / SA10.12
SI1	Section A / SA10.13
SI2	Section B / SA10.13
R1	Section A / SA10.14
R2	Section B / SA10.14
R3	Section C / SA10.14
R4	Section D / SA10.14
R5	Section A / SA10.15

	FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Honoka'a	HAWAII	HAW.	BR-019-2(077)	2024	ADD. 175	280
<b>&gt;</b>		1				

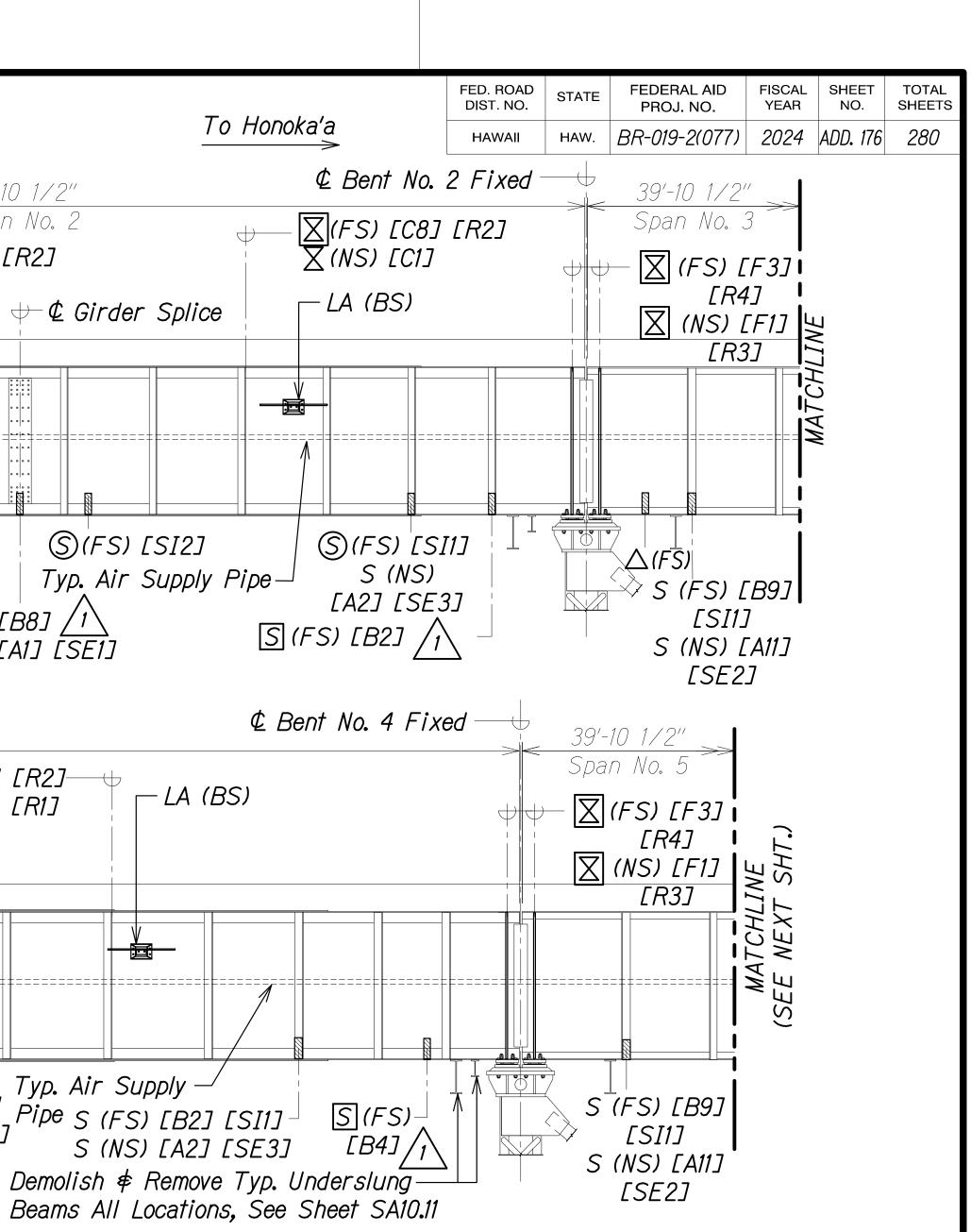
-X(NS) [F5] [R5]

 $\sim$ No.





	ent No. 1 Fi	ixed —		10/ 10
1 1/4'' No. 1 X(	FS) [F3] [	R4] -+ Top of Pridge 1	Dook_	<u> </u>
$\mathbb{Z}_{2}$	FS) [F3] [ NS) [F1] [F	$\frac{74}{73} \longrightarrow Top of Bridge L$		∑(FS) [C8] [F ∑(NS) [C1]
$ \oplus \underline{\mathcal{C}} Girder  \oplus \overline{\mathbb{N}}(FS) $	[C8][R2]	(FS) [F4] [		
Splice X(NS)	ECIJ LA (E	3S) -		
				مادی ۱۰۰۰ ۱۰۰۰
(FS) [SI2]			<u>(</u> )(FS	) [SI2] —
S(FS)[B4] S(FS)[S]	[1]		(NS) [A2] [S	I
$ \vec{S}$ (NS) $\vec{S}$ (NS) $\vec{S}$	2] [SE3] <u>/</u> 1		(FS) [SI1]	[] [] (FS) [B
Exist. Inspection Stair Steel Pos	st (FS),	S(FS) S(FS)	32] 🎊	S (NS) [A
See Sheet SA10.20 Detail 2				
$- \oint_{\Gamma}$			71'-10 1/2''	
>< +	⊤Top of Bi	ridao	Span No. 4	
$\nabla (NS) [E1] [R3]$	Deck	$\overline{X}$ (FS) [C8] [R2]		∑(FS) [C8] [ ∑(NS) [C2] [
$  \square \square \square LA (BS)$	$\downarrow$ $\downarrow$ $\neg$	$= \boxed{[NS] [C2] [R1]} = \boxed{[NS] [C2] [R1]}$	+ + <b>€</b> Gi	rder Splice
	V			
			0 0 0 0 0 0 0 0 0 0 0 0	
			·	
$\mathbb{E}[FS]$	5) [B4] /î	S (FS) [B2] [		7
$\Box \Box $				<sup>-</sup> S) [B2] [SI1] <sub>F</sub> S) [A2] [SE3]
S (NS)	[A2] [SE3]	$-S(NS)[A6]/_1$		
				E E
CIRDER IINE	C-3 DC	WNSTREAM ELEV	ΛΤΙΩΝ	
Scale: 1/4" = 1'-0"		WINJINLAW LLLV	ATION	SA9.17 SA9.17
DEMOLITION OF MEN	IBERS & CO	ONNECTIONS		INSTALLATION MEMBERS & CO
RK REFERENCE	MARK	REFERENCE	MARK	REFER
Section A / SA10.1	<i>C1</i>	Section A / SA10.6	SE1	Section A /
Section B / SA10.1	C2	Section B / SA10.6	SE2	Section B /
Section D / SA10.1	C4	Section D / SA10.6	SE3	Section C /
5 Section A / SA10.2	C6	Section A / SA10.7	SE4	Section D /
S Section B / SA10.2	C8	Section C / SA10.7	SI1	Section A /
1 Section C / SA10.3	<i>E1</i>	Section A / SA10.8	SI2	Section B /
Section A / SA10.4	<i>E2</i>	Section B / SA10.8	<i>R1</i>	Section A /
Section B / SA10.4	<i>F1</i>	Section A / SA10.9	R2	Section B
A Section D / SA10.4	F2	Section B / SA10.9	<i>R3</i>	Section C /
5 Section A / SA10.5	F3	Section C / SA10.9		Section D /
Section D / SA10.5	F4	Section D / SA10.9		
B Section E / SA10.5		-	12/6/	24 /1 Revised
			DATE	R

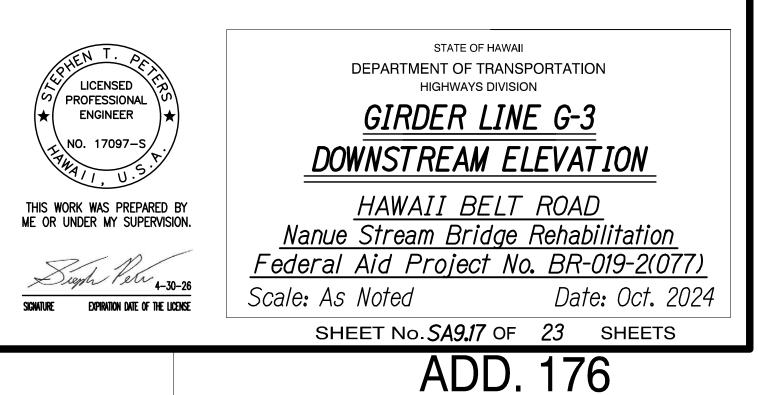


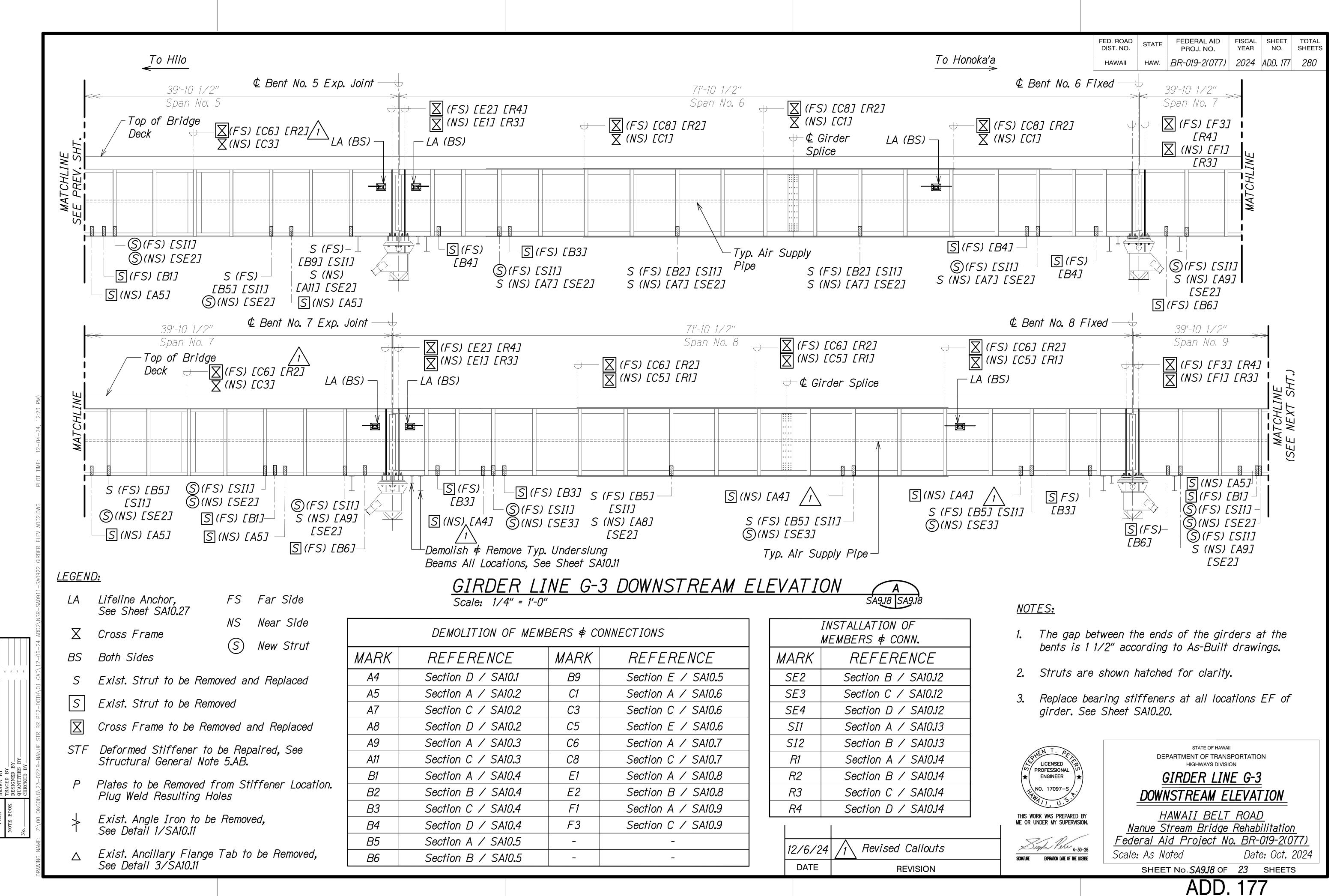
OF
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RENCE
/ SA10.12
/ SA10.12
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/ SA10.14

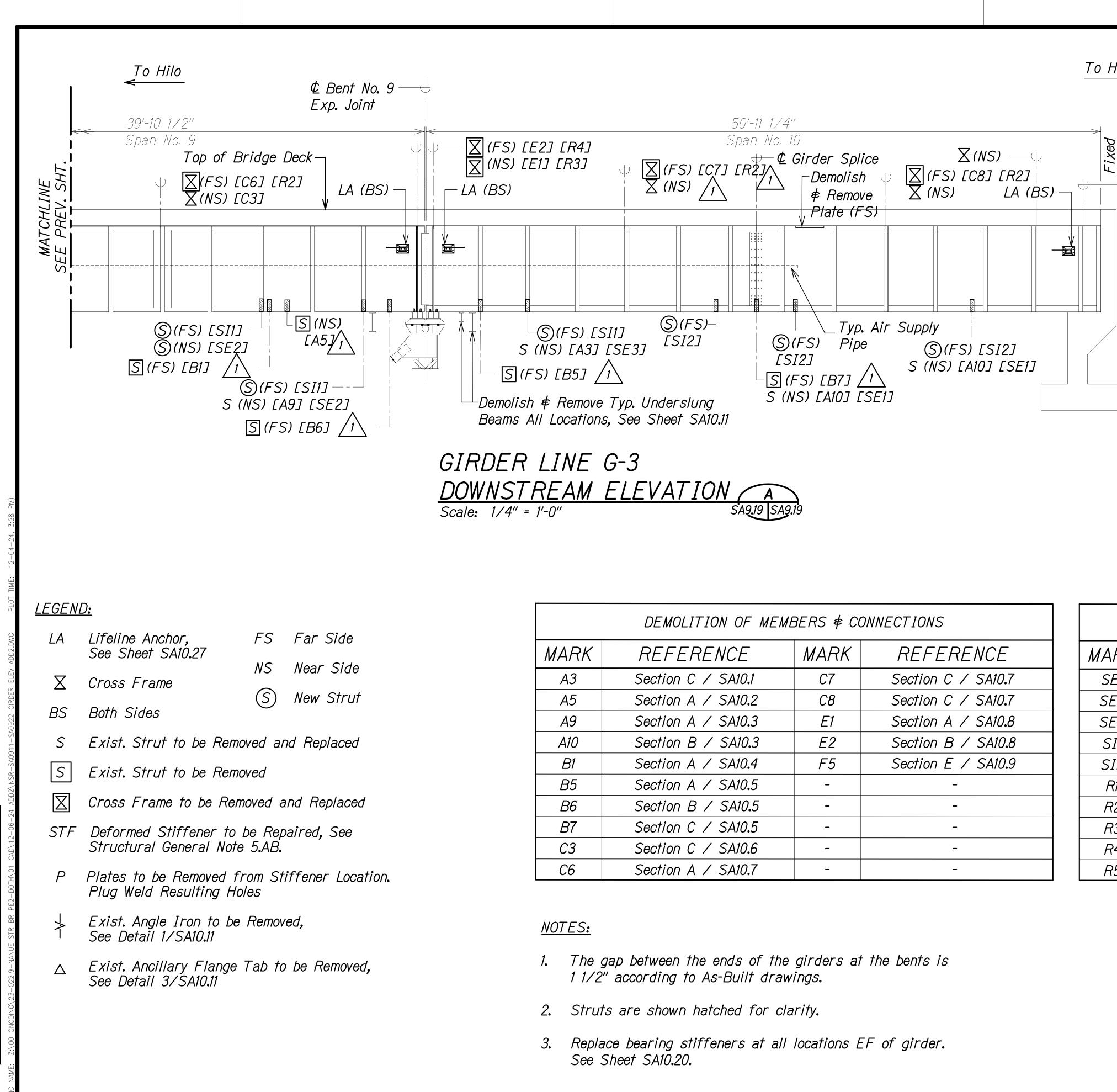
ed Callouts REVISION

# NOTES:

- 1. The gap between the ends of the girders at the bents is 1 1/2" according to As-Built drawings.
- 2. Struts are shown hatched for clarity.
- 3. Replace bearing stiffeners at all locations EF of girder. See Sheet SA10.20.







SURVEY PLOTTE DRAWN BY\_\_\_\_\_ TRACED BY\_\_\_\_\_ DESIGNED BY\_\_\_\_ QUANTITIES BY\_\_\_\_ CHECKED BY\_\_\_\_ ORIGINAI PLAN NOTE BOO No.-

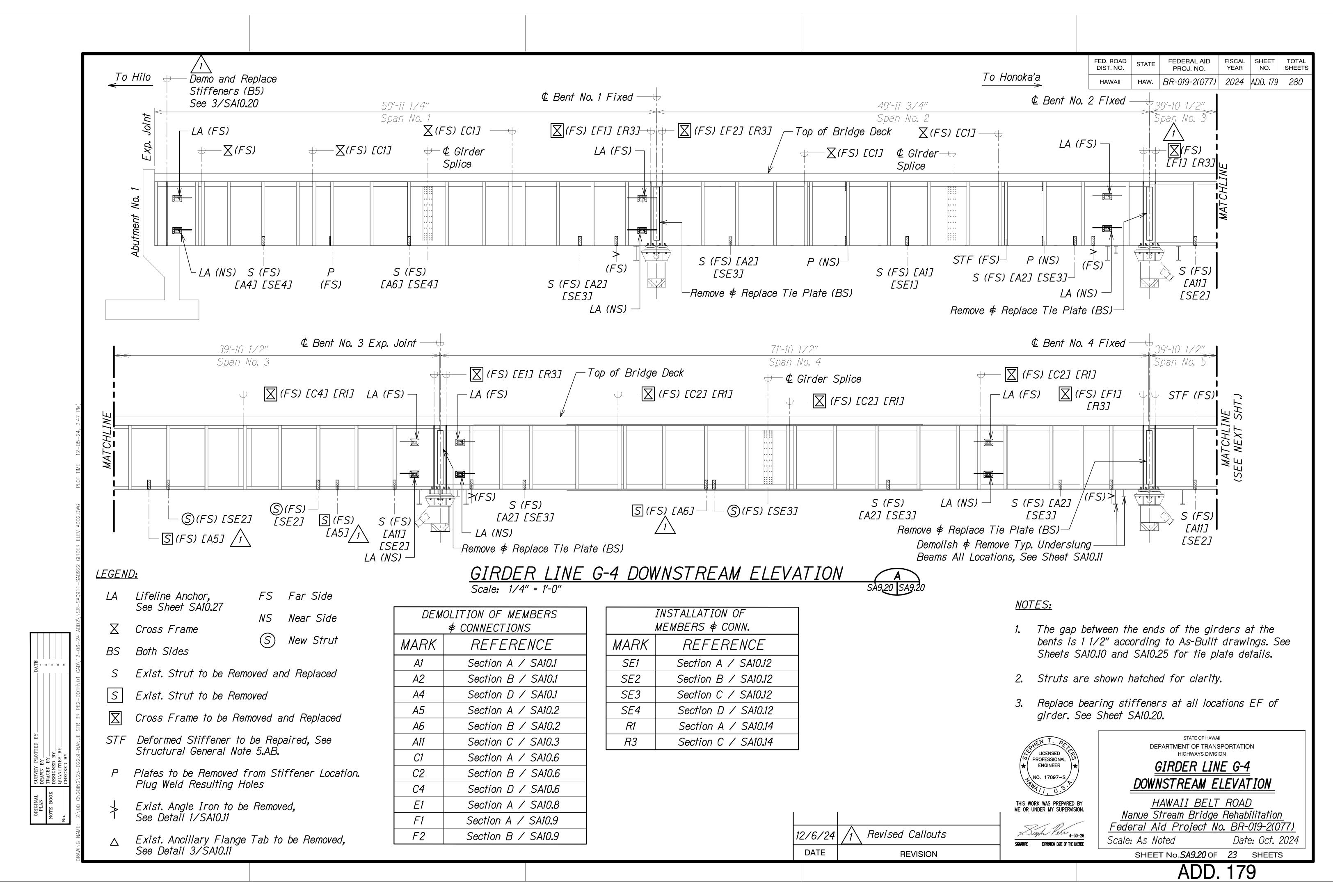
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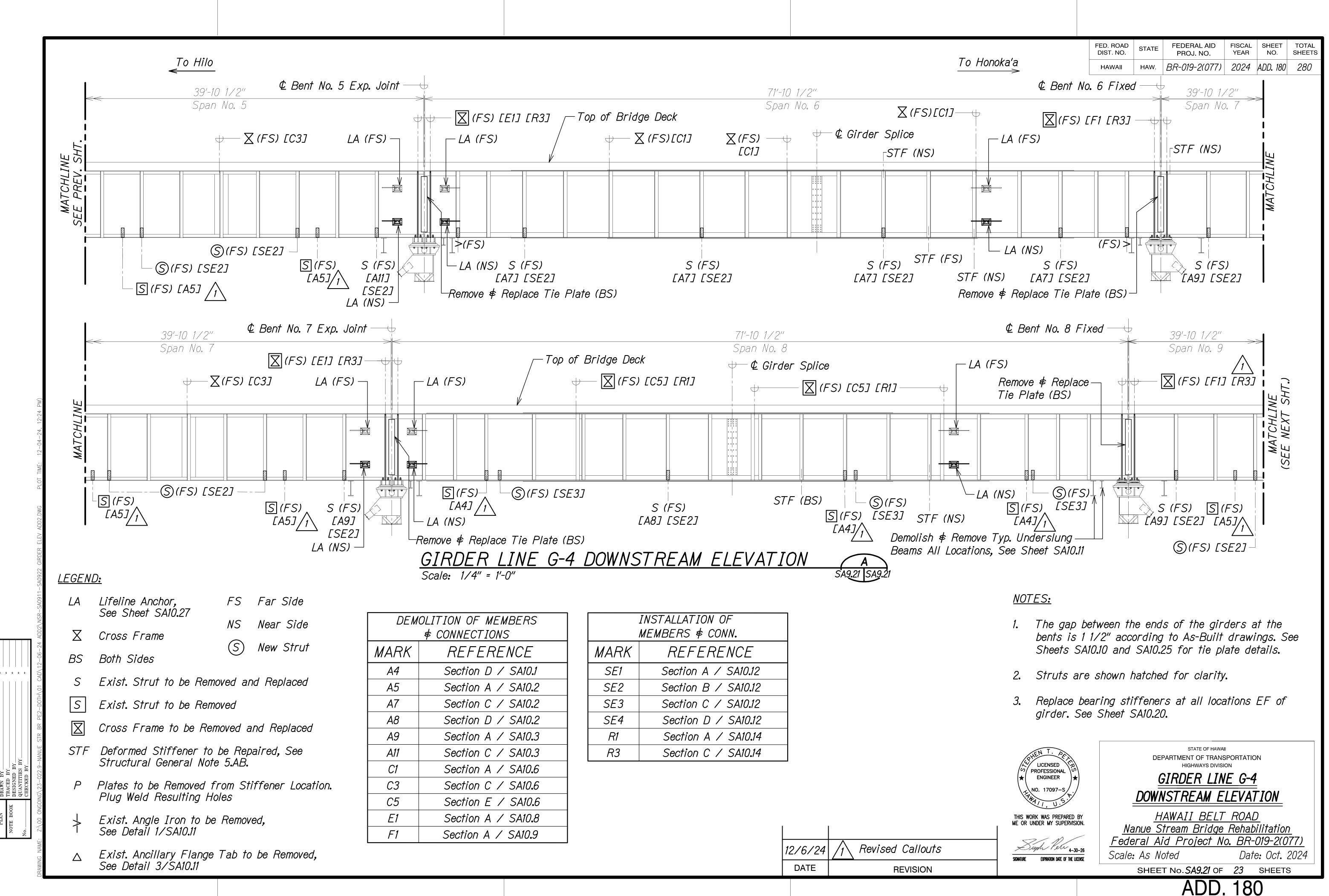
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						FED. ROAD STATE	FEDERAL AID	FISCAL SHEET	TOTAL
				, .,		DIST. NO.	PROJ. NO.	YEAR NO.	SHEETS
				To Honoka'	a >	HAWAII HAW.	BR-019-2(077)	2024 ADD. 178	3 280
	50'-11 1/			>					
[E2] [R4] [E1] [R3]	Span No. $ \begin{array}{c} \downarrow \\ \blacksquare \\ \blacksquare$	Girder Splic Girder Splic Demolish ∳ Remove	$\begin{array}{ccc} & X(NS) & \longrightarrow \\ & & & X(NS) & & & \\ & & & X(FS) & C8J & C8J \\ & & & X(NS) & & LA & (BS) \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$		S) [F5] [R5]				
				Abutment No. 2					
	[SE3] [SI2] [SE3] [SE3]	\_   yp.  S[2]  (FS) [B7] <u> </u>  (NS) [A10] [S	S (NS) [A10] [SE1]						
R LINE ( <u>REAM [</u> = 1'-0"	ELEVATION A SA9.19 SA			] [7/	ISTALLATION OF				
	DEMOLITION OF ME	MBERS ∉ COI	NNECTIONS		EMBERS & CONN.				
MARK	REFERENCE	MARK	REFERENCE	MARK	REFERENCE				
A3	Section C / SA10.1	C7	Section C / SA10.7	SE1	Section A / SA10.12				
A5	Section A / SA10.2	<i>C8</i>	Section C / SA10.7	SE2	Section B / SA10.12				
A9	Section A / SA10.3	E1	Section A / SA10.8	SE3	Section C / SA10.12				
A10	Section B / SA10.3	E2	Section B / SA10.8	SI1	Section A / SA10.13				
<i>B1</i>	Section A / SA10.4	F5	Section E / SA10.9	SI2	Section B / SA10.13				
B5	Section A / SA10.5	-	-		Section A / SA10.14				
<i>B6</i> <i>B</i> 7	Section B / SA10.5	-	-	R2	Section B / SA10.14				
<i>C3</i>	Section C / SA10.5 Section C / SA10.6	-		R3	Section C / SA10.14				
C6	Section A / SAI0.7			R4 R5	Section D / SA10.14 Section A / SA10.15				
<u>NOTES:</u> 1. The g 1 1/2"	ap between the ends of th according to As-Built dra s are shown hatched for c	ne girders at awings.	the bents is		SECTION A 7 SAIU.IS		Revised C REV STATE OF HAWAI EPARTMENT OF TRANS HIGHWAYS DIVISIO GIRDER LIN	PORTATION DN E G-3	
•	ce bearing stiffeners at a heet SA10.20.	ll locations El	<sup>-</sup> of girder.		THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Signt Met 4-30-26 SIGNATURE EXPIRATION DATE OF THE LICENSE	<u>Nanue</u> <u>Federal</u> Scale: As I	HAWAII BELT Stream Bridge Aid Project No Voted ET No. <b>SA9.19</b> OF	<u>Rehabilitatio</u> <u>BR-019-2(0</u> Date: Oct.	<u>077)</u> 2024

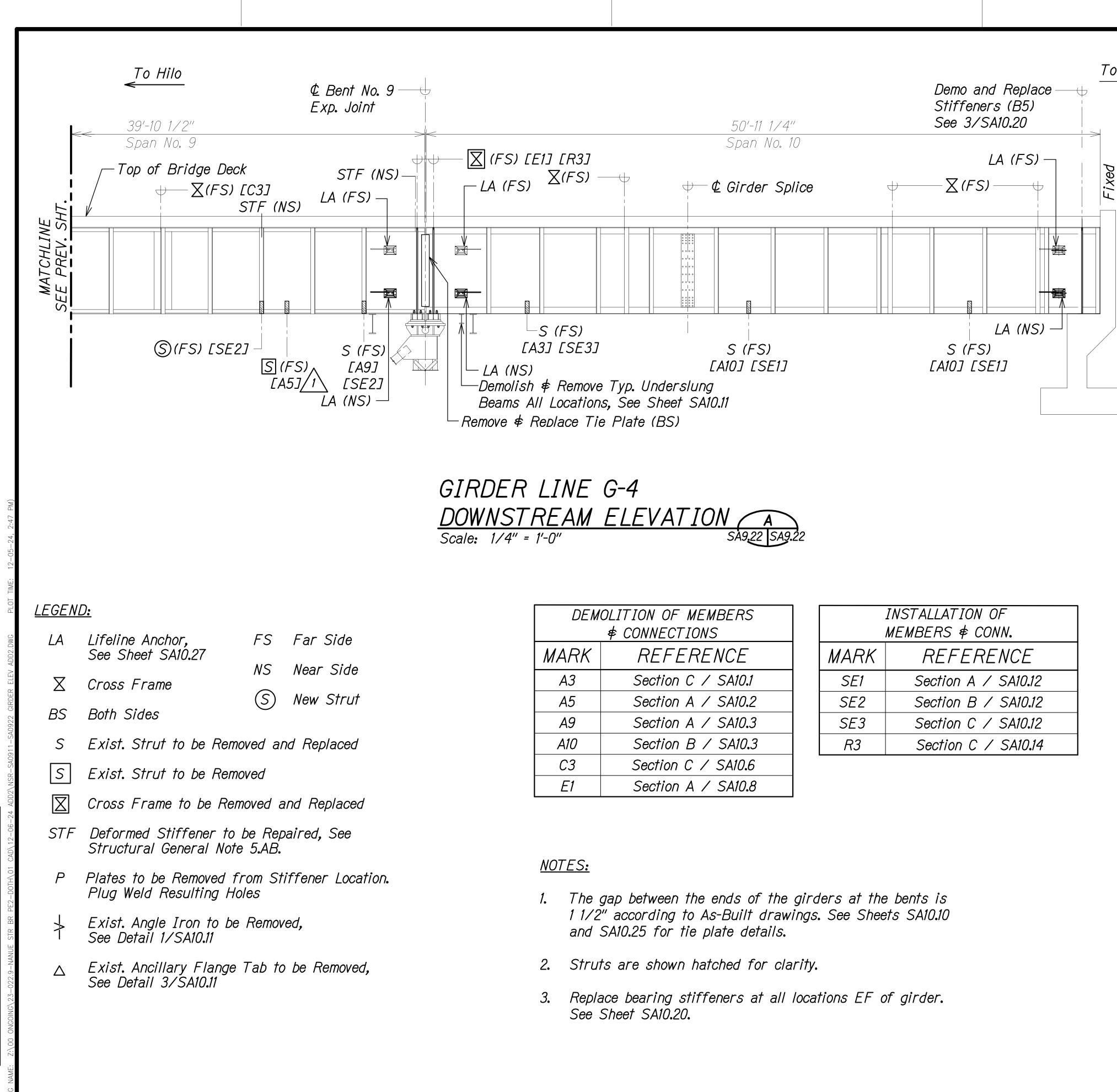
ADD. 178





DEMOLITION OF MEMBERS					
	¢ CONNECTIONS				
IARK	REFERENCE				
A4	Section D / SA10.1				
A5	Section A / SA10.2				
A7	Section C / SA10.2				
A8	Section D / SA10.2				
A9	Section A / SA10.3				
A11	Section C / SA10.3				
<i>C1</i>	Section A / SA10.6				
С3	Section C / SA10.6				
С5	Section E / SA10.6				
E1	Section A / SA10.8				
F1	Section A / SA10.9				

INSTALLATION OF MEMBERS ∉ CONN.					
MARK REFERENCE					
SE1	Section A / SA10.12				
SE2	Section B / SA10.12				
SE3	Section C / SA10.12				
SE4	Section D / SA10.12				
R1	Section A / SA10.14				
R3	Section C / SA10.14				



BY\_\_\_\_\_BY\_\_\_\_ BY\_\_\_\_\_ ED\_BY\_\_\_ TIES\_BY\_\_\_\_

H. . . . .

SURVEY DRAWN TRACED DESIGNH QUANTIT

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DEMOLITION OF MEMBERS & CONNECTIONS					
MARK REFERENCE					
A3	Section C / SA10.1				
A5	Section A / SA10.2				
A9	Section A / SA10.3				
A10	Section B / SA10.3				
<i>C3</i>	Section C / SA10.6				
E1	Section A / SA10.8				

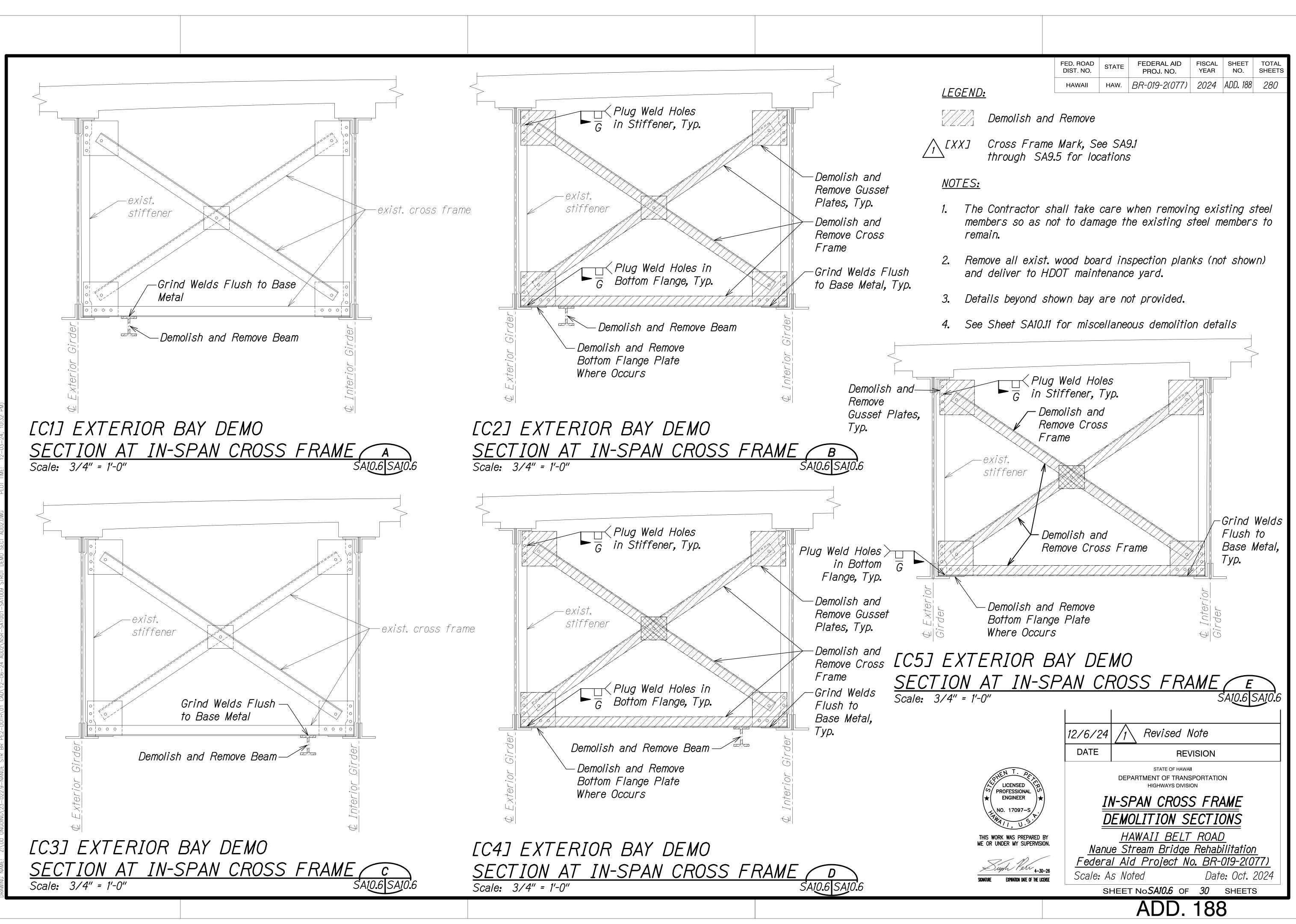
	INSTALLATION OF				
	MEMBERS & CONN.				
MARK	REFERENCE				
SE1	Section A / SA10.12				
SE2	Section B / SA10.12				
SE3	Section C / SA10.12				
R3	Section C / SA10.14				

	FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
o Honoka'a	HAWAII	HAW.	BR-019-2(077)	2024	ADD. 181	280
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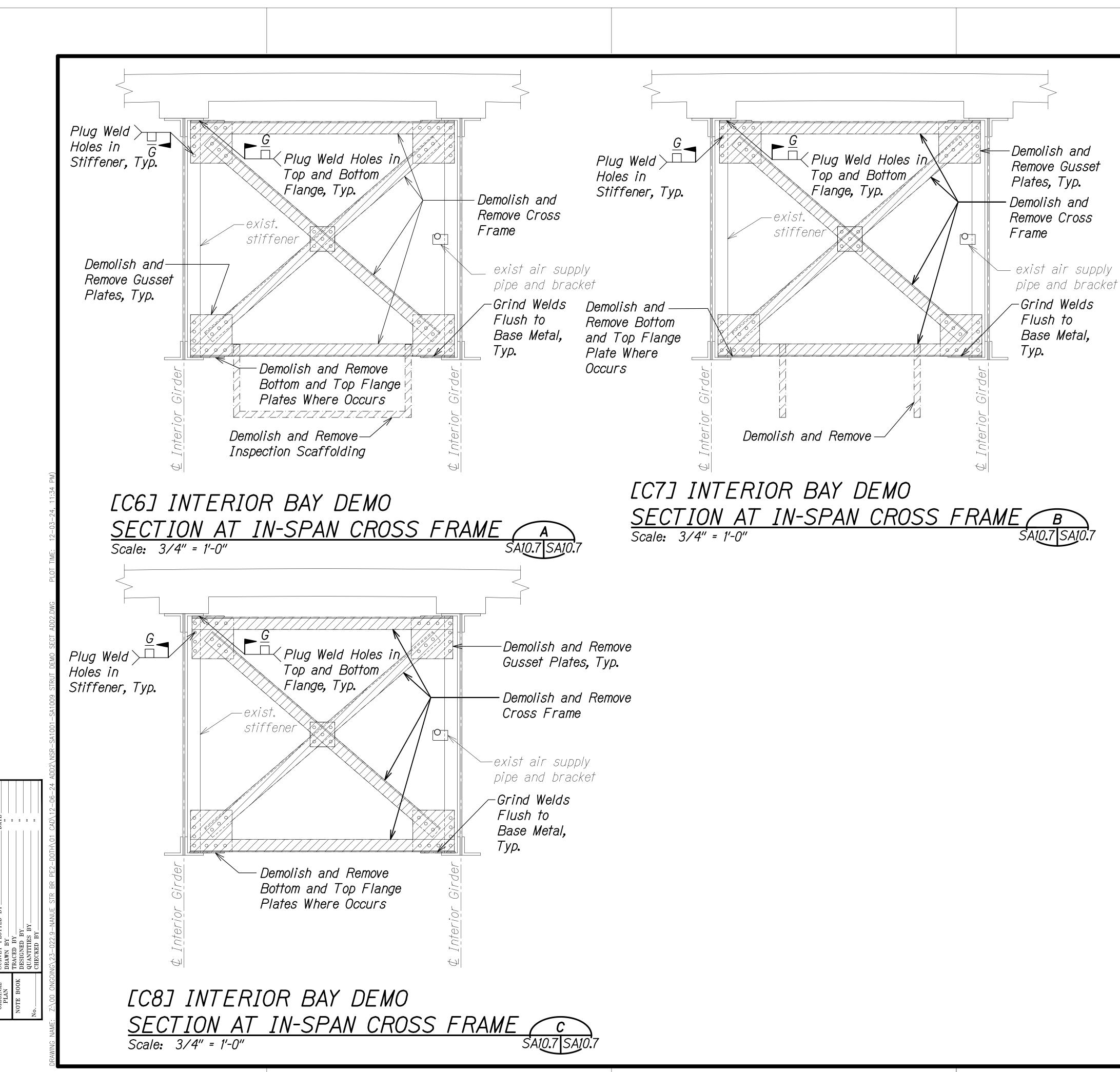
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> Revised Callout 12/6/24 DATE REVISION STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LICENSED PROFESSIONAL HIGHWAYS DIVISION GIRDER LINE G-4 ENGINEER NO. 17097−S/ DOWNSTREAM ELEVATION HAWAII BELT ROAD THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION. Nanue Stream Bridge Rehabilitation Federal Aid Project No. BR-019-2(077) Sigh Petr 4-30-26 Scale: As Noted Date: Oct. 2024 SIGNATURE EXPIRATION DATE OF THE LICENSE SHEET No. SA9.22 OF 23 SHEETS

> > ADD. 181



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	FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	BR-019-2(077)	2024	ADD. 189	280
LEGEND:						

Cross Frame Mark, See SA9.1 through

Demolish and Remove

SA9.5 for locations

 $\int_{1} [XX]$ 

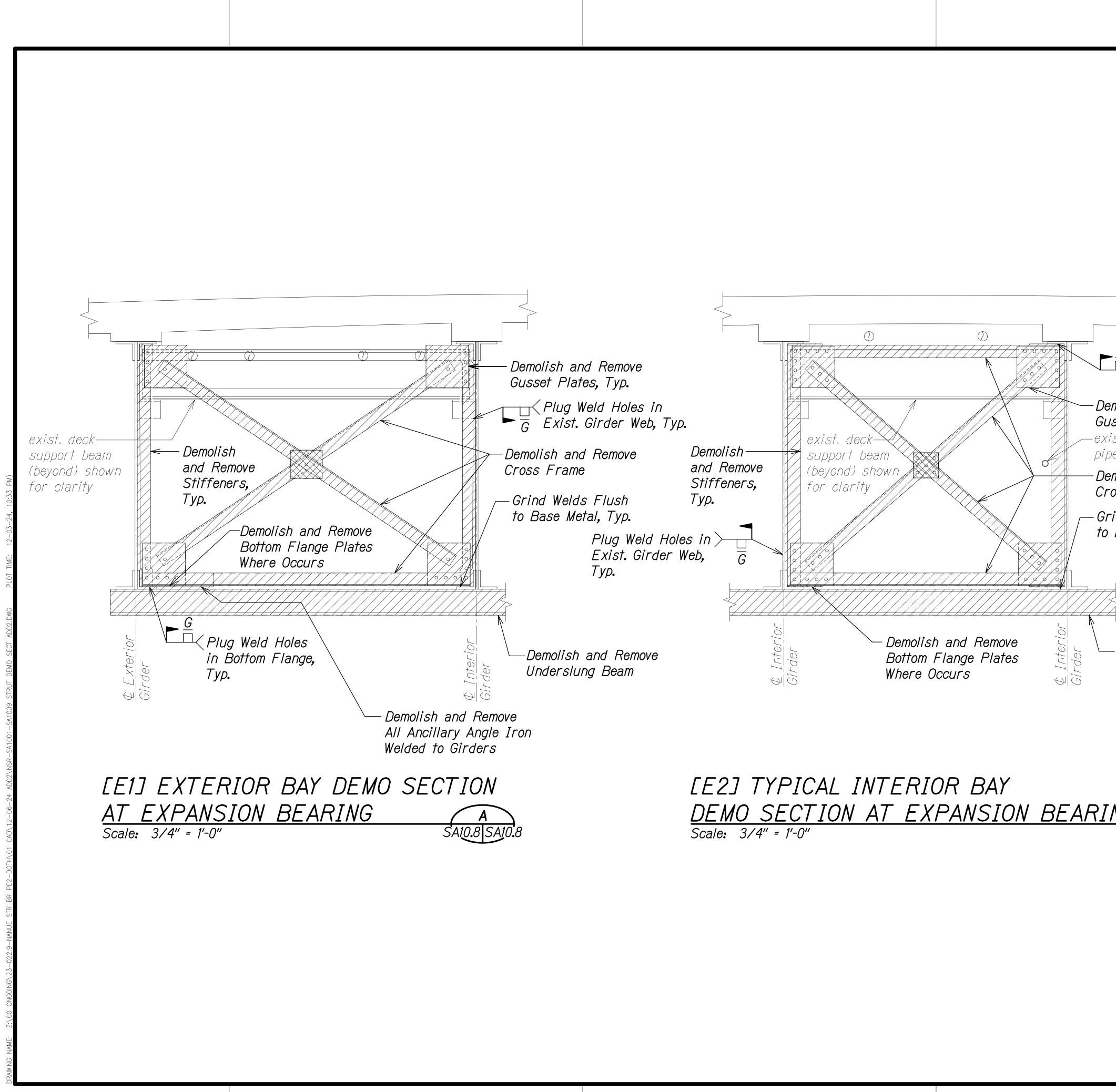
<u>NOTES:</u>

1. The Contractor shall take care when removing existing steel members so as not to damage the existing steel members to remain.

Remove all exist. wood board inspection planks (not shown) and 2. deliver to HDOT maintenance yard.

- Details beyond shown bay are not provided. 3.
- See Sheet SA10.11 for miscellaneous demolition details 4.





DEMO SECTION AT EXPANSION BEARING (B

FED. ROAD	STATE	FEDERAL AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 190	280

<u>LEGEND:</u>

Demolish and Remove

 $\sum_{i} [XX]$ 

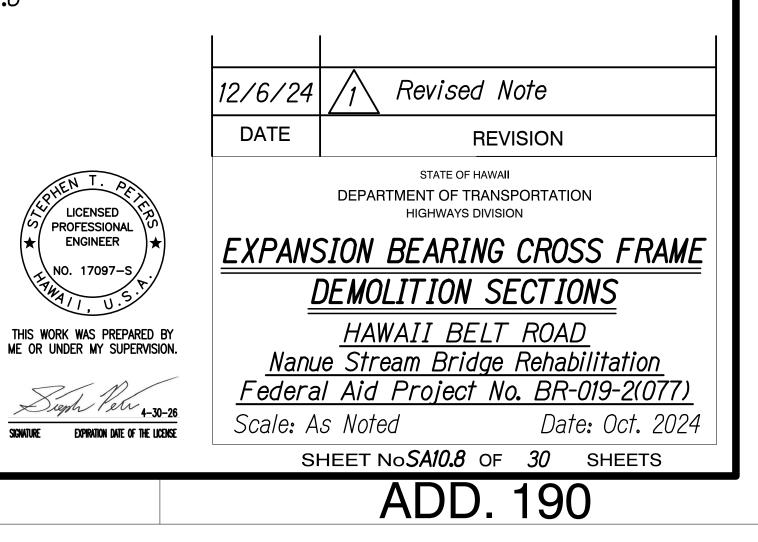
Cross Frame Mark, See SA9.1 through SA9.5 for locations

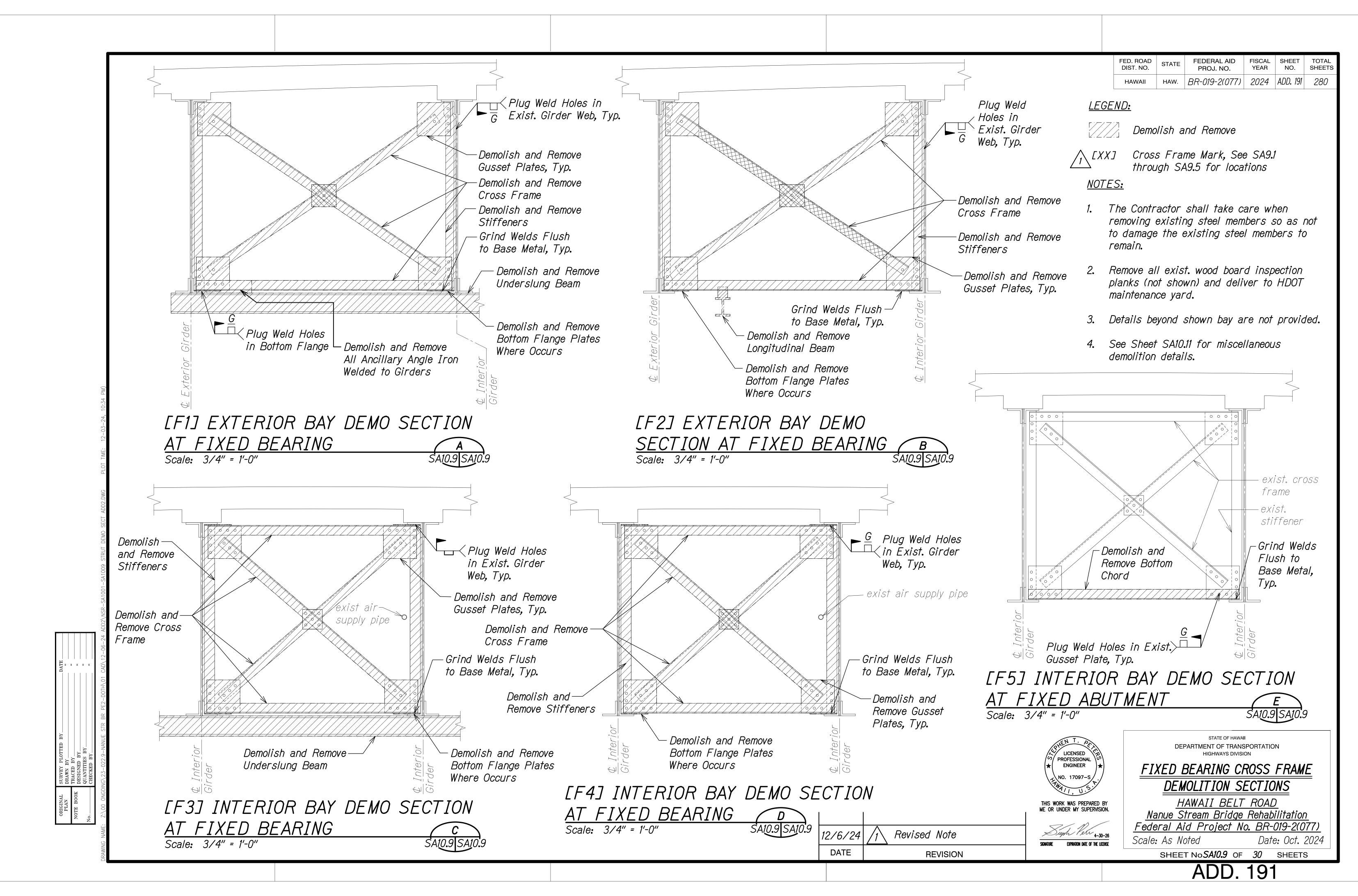
# <u>NOTES:</u>

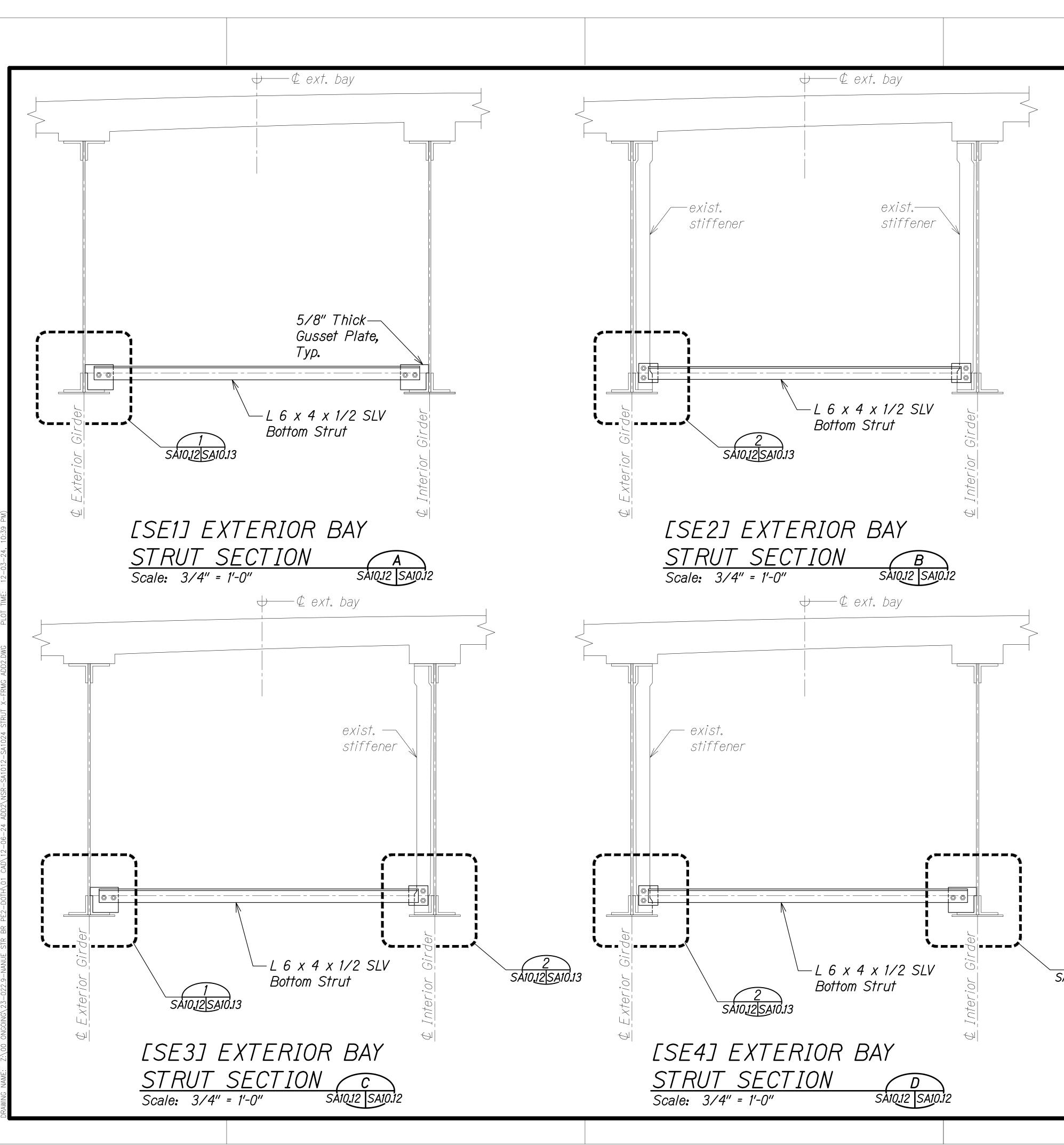
- 1. The Contractor shall take care when removing existing steel members so as not to damage the existing steel members to remain.
- 2. Remove all exist. wood board inspection planks (not shown) and deliver to HDOT maintenance yard.
- 3. Details beyond shown bay are not provided.
- 4. See Sheet SA10.11 for miscellaneous demolition details
- Plug Weld Holes in Top and Bottom Flange, Typ. -Demolish and Remove Gusset Plates, Typ. exist air supply pipe -Demolish and Remove Cross Frame -Grind Welds Flush to Base Metal, Typ.

<u>—Demolish and Remove</u> Underslung Beam

SA10.8 SA10.8







. . .

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 194	280

## LEGEND:

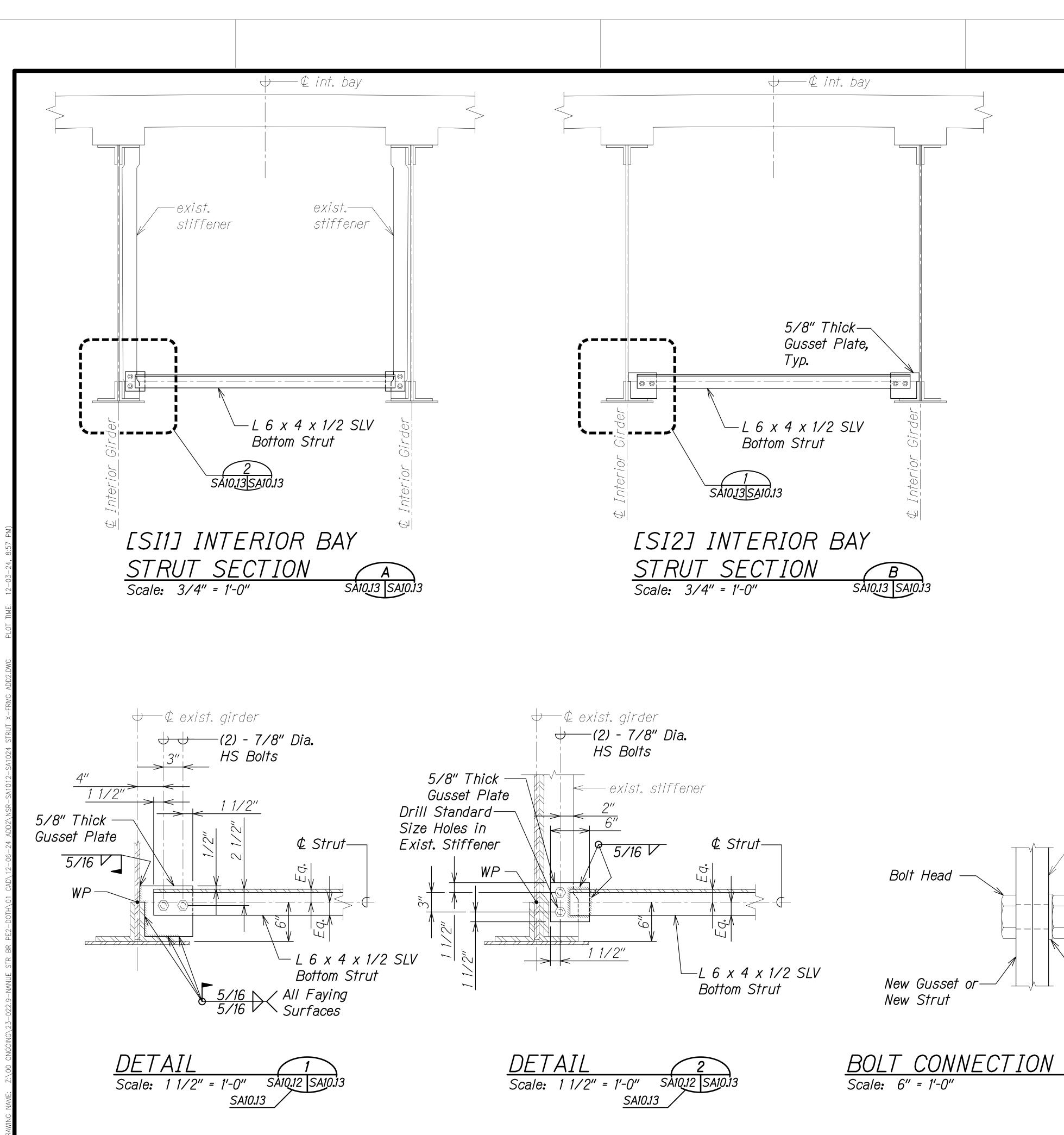
[XXX] Strut Mark, See SA9.6 through SA9.10 for locations

### <u>NOTES:</u>

- 1. The Contractor shall field fit strut members and gussets prior to welding and galvanizing assemblies.
- 2. New gussets welded directly to exist. plate girders shall be provided ungalvanized. Field drill standard size holes in exist. girder stiffeners and new welded gusset plates to match bolt pattern in new strut assembly.
- 3. Strut assemblies shall be delivered to the site fully assembled, hot-dip zinc galvanized per ASTM A123 and shop painted with primer, seal, stripe coat, and intermediate in accordance with Section 667 - PREPARATION AND COATING OF GALVANIZED BRIDGE STEEL of the Special Provisions.
- 4. Just prior to installation of strut assemblies, the immediate surrounding faying surfaces of existing girder web, flange, and stiffeners as well as new welded gusset plates shall be cleaned in accordance with SSPC-SP 10 or SSPC-SP 11 and painted, by brush, with two coats of the specified primer.
- 5. Perform final abrasive blast cleaning to all girders, stiffeners, etc. Strut assemblies shall be sufficiently shielded from damage during blasting operation and masked from overspray during primer application.
- 6. Strut assemblies shall receive field applied top coat in accordance with Section 666 - BLAST, CLEAN, AND PAINT EXISTING BRIDGE STEEL of the Special Provisions.
- 7. Details from adjacent bays not shown for clarity.
- 8. See Sheet SA9.23 for required sequence regarding strut replacement and corresponding traffic control requirements.

SA10.125A10.13

	12/6/24	1 Revised Notes
	DATE	REVISION
AT LICENSED		STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
HOFESSIONAL HOFESSIONAL HOSER HOS	Ελ	(TERIOR BAY STRUT SECTIONS
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	Nanu	<u>HAWAII BELT ROAD</u> be Stream Bridge Rehabilitation
Siegh Petr 4-30-26		I Aid Project No. BR-019-2(077)
SIGNATURE EXPIRATION DATE OF THE LICENSE		HEET No SA10.12 OF 30 SHEETS
		ADD. 194



DR. DE: QU

BOLT CONNECTION DE

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 195	280

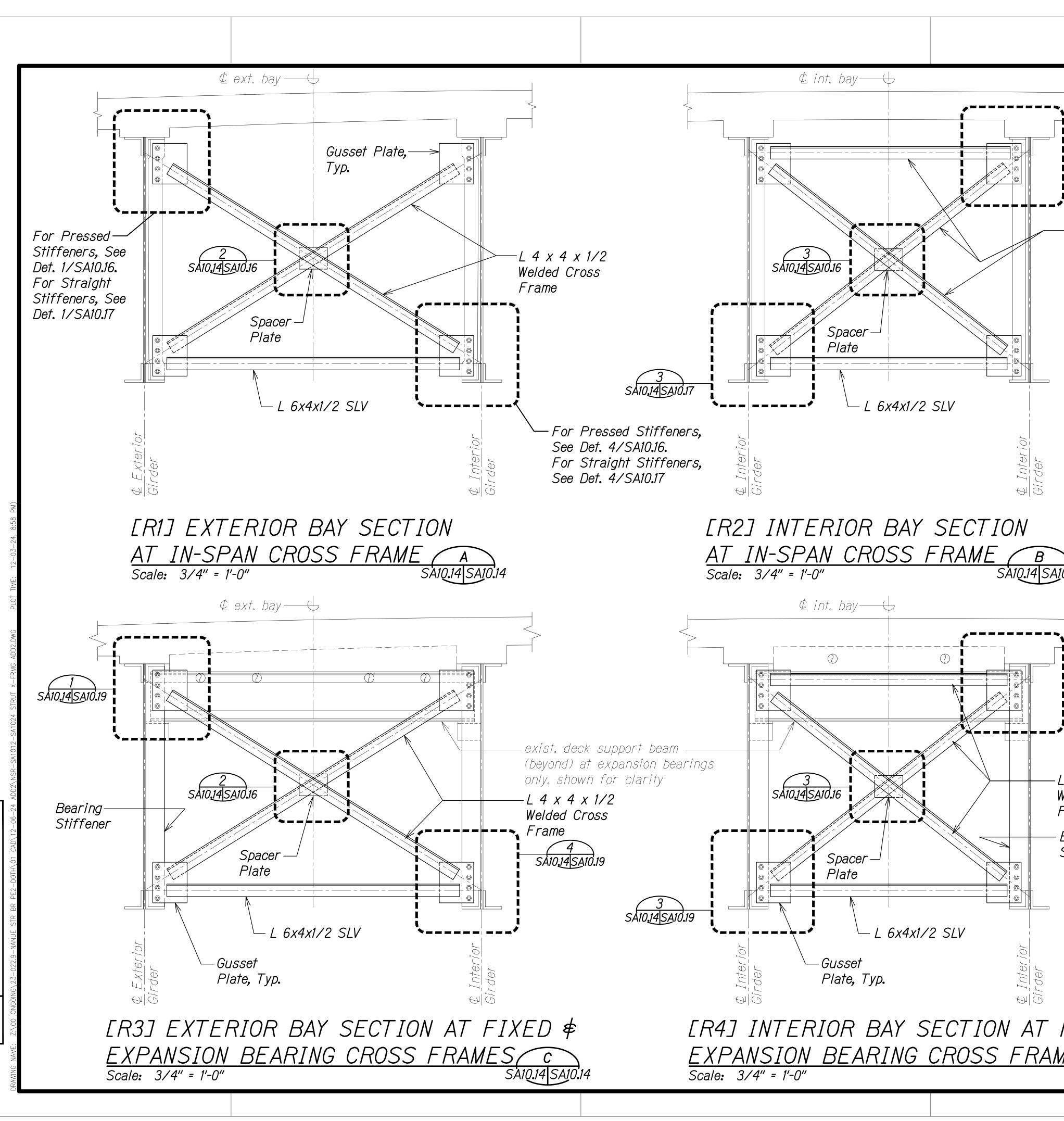
## <u>LEGEND:</u>

[XXX] Strut Mark, See SA9.6 through SA9.10 for locations

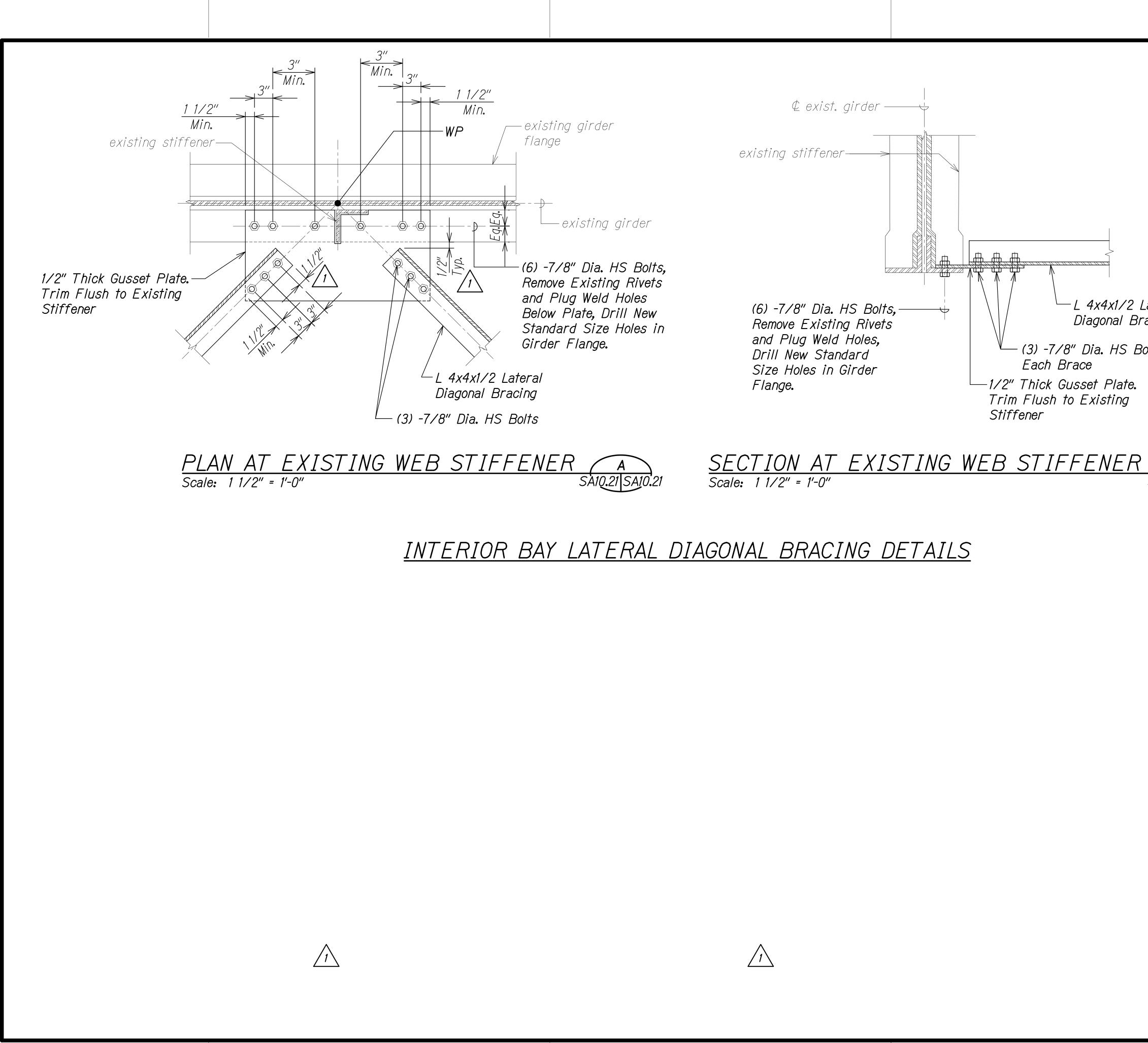
### NOTES:

- 1. The Contractor shall field fit strut members and gussets prior to welding and galvanizing assemblies.
- 2. New gussets welded directly to exist. plate girders shall be provided ungalvanized. Field drill standard size holes in exist. girder stiffeners and new welded gusset plates to match bolt pattern in new strut assembly.
- 3. Strut assemblies shall be delivered to the site fully assembled, hot-dip zinc galvanized per ASTM A123 and shop painted with primer, seal coat, stripe coat, and intermediate in accordance with Section 667 - PREPARATION AND COATING OF GALVANIZED BRIDGE STEEL of the Special Provisions.
- 4. Just prior to installation of strut assemblies, the immediate surrounding faying surfaces of existing girder web, flange, and stiffeners as well as new welded gusset plates shall be cleaned in accordance with SSPC-SP 10 or SSPC-SP 11 and painted, by brush, with two coats of the specified primer.
- 5. Perform final abrasive blast cleaning to all girders, stiffeners, etc. Strut assemblies shall be sufficiently shielded from damage during blasting operation and masked from overspray during primer application.
- 6. Strut assemblies shall receive field applied top coat in accordance with Section 666 - BLAST, CLEAN, AND PAINT EXISTING BRIDGE STEEL of the Special Provisions.
- 7. Details from adjacent bays not shown for clarity.
- See Sheet SA9.23 for required sequence regarding strut replacement 8. and corresponding traffic control requirements.

			ADD.	195	
		SI	HEET No <i>SA10<b>.</b>13</i> O	f <i>30</i> SHEETS	_
	SIGNATURE EXPIRATION DATE OF THE LICENSE	Scale: A	s Noted	Date: Oct. 2024	
	Sind Patas			No. BR-019-2(077)	
<u>SA10.13</u> SA10.13	ME OR UNDER MY SUPERVISION.	Nanu	e Stream Bridg		
TAIL 3	This work was prepared by		HAWAII BEL	T ROAD	
	HTM. 17097-3	SE	ECTIONS AND	D DETAILS	
	★ ENGINEER ★ NO. 17097-S	<u>_</u>	NTERIOR BA	AY STRUT	
	CHEN T. DELLER CONCERSED CONFESSIONAL		STATE OF HAV DEPARTMENT OF TRAI HIGHWAYS DIVI	NSPORTATION	
Hardened Washer		DATE		EVISION	
		DATE			
		12/6/24	1 Revised	Notes	
Nut		1	l		I
u u u u u u u u u u u u u u u u u u u					
xist. stiffener or ew welded gusset					



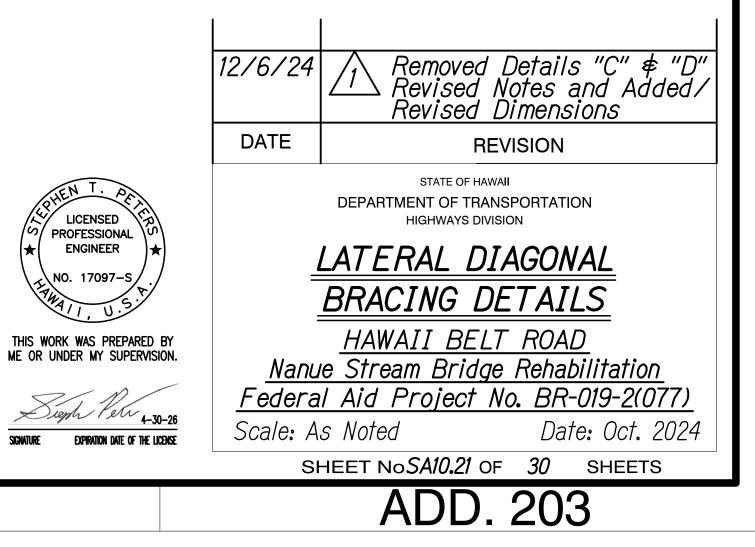
I				ED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS		
	<u>LEG</u>	END:		HAWAII	HAW.	BR-019-2(077)	2024	ADD. 196	280		
2	[XXX] Cross Frame Mark, See SA9.6 through SA9.10 for locations										
SÀ10 <u>,14</u> SA10.17	<u>NOT</u>	<u>ES:</u>									
-L 4 x 4 x 1/2 Welded Cross	1.	The Contractor shall field fit frame members and gussets prior to welding and galvanizing assemblies.									
Frame	2.	field welded standard size	New girder stiffeners shall be provided ungalvanized and field welded to existing plate girders. Field drill standard size holes in existing/new girder stiffeners to match bolt pattern in new cross frame assembly.								
	3.	Existing stift Existing bear bearing cross SA10.20 for s	ring s fra	stiffen ames sl	ers a hall b	at fixed and be replaced.	expan	sion	ain.		
	4. <u>/1</u>	Cross frame fully assembl and shop pai intermediate PREPARATIC STEEL of the	ed, I nted in a DN A	hot-dip with p ccordar ND COA	zinc primen nce w ATIN(	galvanized po r, seal coat, s ith Section 6 G OF GALVAN	er AS stripe 67 -	TM A12 coat, a	ind		
<u>N0.14</u>	5.	Just prior to immediate su girder stiffe SSPC-SP 10 two coats of	rrou ners or S	nding f shall i SSPC-Si	faying be cle P 11 a	n surfaces of eaned in acco and painted, l	<sup>r</sup> exist ordanc	'ing/ne e with	W		
	6.	Perform final abrasive blast cleaning to all girders, stiffeners, etc. Cross frame assemblies shall be sufficiently shielded from damage during blasting operation and masked from overspray during primer application.									
SÁ10,14 SA10.19	7.	Cross frame coat in accor AND PAINT I Provisions.	dano	ce with	Sec	tion 666 - Bl	LAST,	CLEAN	,		
L 4 x 4 x 1/2 Welded Cross	8.	Details from	adja	acent ba	ays n	ot shown for	clari	ty.			
Frame Bearing Stiffener	9.	See Sheet SA frame replace requirements.	emer		•	•	•	•	055		
				12/6/2	24 /	Revised N	lotes				
				DATE		REV	/ISION				
		* ENGINEER * NO. 17097-S * IN-SPAN, ELEVATION, AND FIXED BEA CROSS FRAME SECTIONS									
		THIS WORK WAS PREPARED				<del>JSS FRAME S</del> HAWAII BELT					
FIXED ¢		ME OR UNDER MY SUPERVISI	ION.			Stream Bridge Nid Project No	Rehat	pilitation	_		
<u>MES D</u> SA10.14 SA10.	14	Signature Expiration date of the Like	0 <u>-26</u> Cense	Scale:			Dat	e: Oct.			
	or 1				SHEE	ET No <i>SA10.14</i> OF		SHEETS	8		
						ADD.	196	<b>)</b>			



FED. ROAD	STATE	FEDERAL AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 203	280

NOTES:

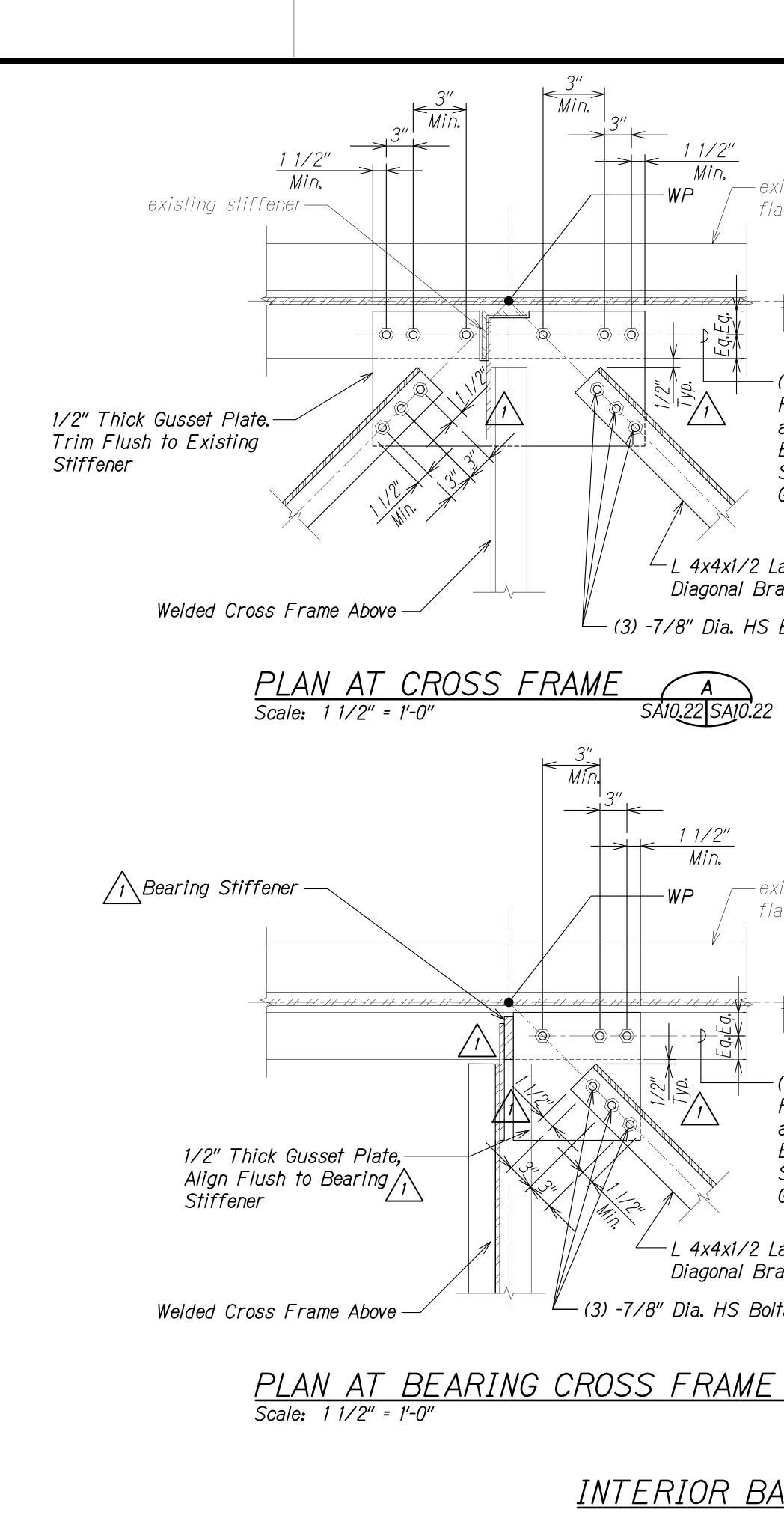
- The Contractor shall field fit lateral diagonal bracing and gussets prior to galvanizing. Predrill holes in the field, including those through the bottom flange of the girder.
- 2. Lateral diagonal bracing and gussets shall be delivered to the site hot-dip zinc galvanized per ASTM A123, and shop painted with the complete coating system in accordance with Special Provisions Section 667-PREPARATION AND COATING OF GALVANIZED BRIDGE STEEL.
- Install lateral diagonal bracing and 3. gussets following completion of painting in Bay 2. Touch up paint ends of bolts, nuts and washers.  $^{\Delta}$  Payment for work under Pay Item 667.3000 does not apply.



└──L 4x4x1/2 Lateral Diagonal Bracing

- $\bigvee$  (3) -7/8" Dia. HS Bolts Each Brace -1/2" Thick Gusset Plate.
- Trim Flush to Existing Stiffener

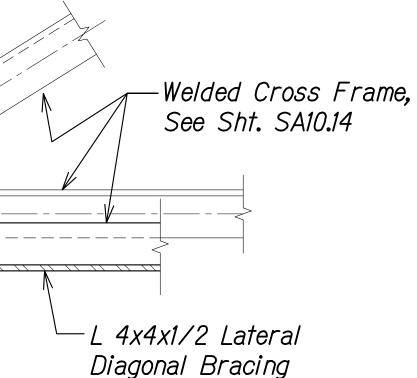
В SA1Q.21 SA10.21



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1 1/2" ¢ exist. girder — Min. -existing girder M/P flange existing stiffener--existing girder -(6) -7/8" Dia. HS Bolts, Remove Existing Rivets and Plug Weld Holes └──L 4x4x1/2 Lateral Below Plate, Drill New (6) -7/8" Dia. HS Bolts, — Diagonal Bracing Standard Size Holes in Remove Existing Rivets Girder Flange. and Plug Weld Holes, Drill New Standard Size Holes in Girder 1/2" Thick Gusset Plate. -L 4x4x1/2 Lateral Trim Flush to Existing Flange. Diagonal Bracing Stiffener - (3) -7/8" Dia. HS Bolts SECTION AT CROSS FRAME В SA10.22 SA10.22 Scale: 1 1/2" = 1'-0" SA10.22 SA10.22 1 1/2" Min. ¢ exist. girder — rexisting girder -WPflange /1 Bearing Stiffener-— existing girder (3) -7/8" Dia. HS Bolts, Remove Existing Rivets and Plug Weld Holes -L 4x4x1/2 Lateral Below Plate, Drill New (3) -7/8" Dia. HS Bolts,-Diagonal Bracing Standard Size Holes in Remove Existing Rivets Girder Flange. and Plug Weld Holes, -(3) -7/8" Dia. HS Bolts Drill New Standard Size Holes in Girder 1/2" Thick Gusset Plate. \_ 4x4x1/2 Lateral Trim Flush to Existing Diagonal Bracing Flange. Stiffener -(3) -7/8" Dia. HS Bolts SECTION AT BEARING CROSS FRAME D SA10.22 SA10.22 SA10.22 SA10.22 Scale: 1 1/2" = 1'-0" INTERIOR BAY LATERAL DIAGONAL BRACING DETAILS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 204	280



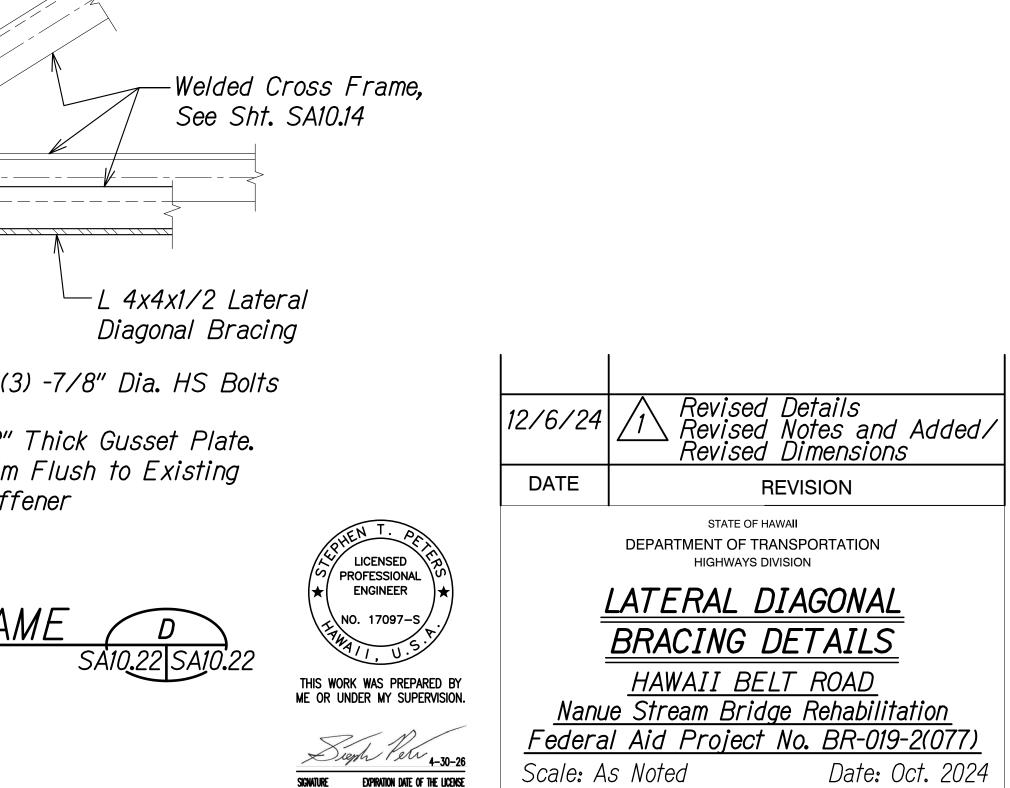
-(3) -7/8" Dia. HS Bolts Each Brace

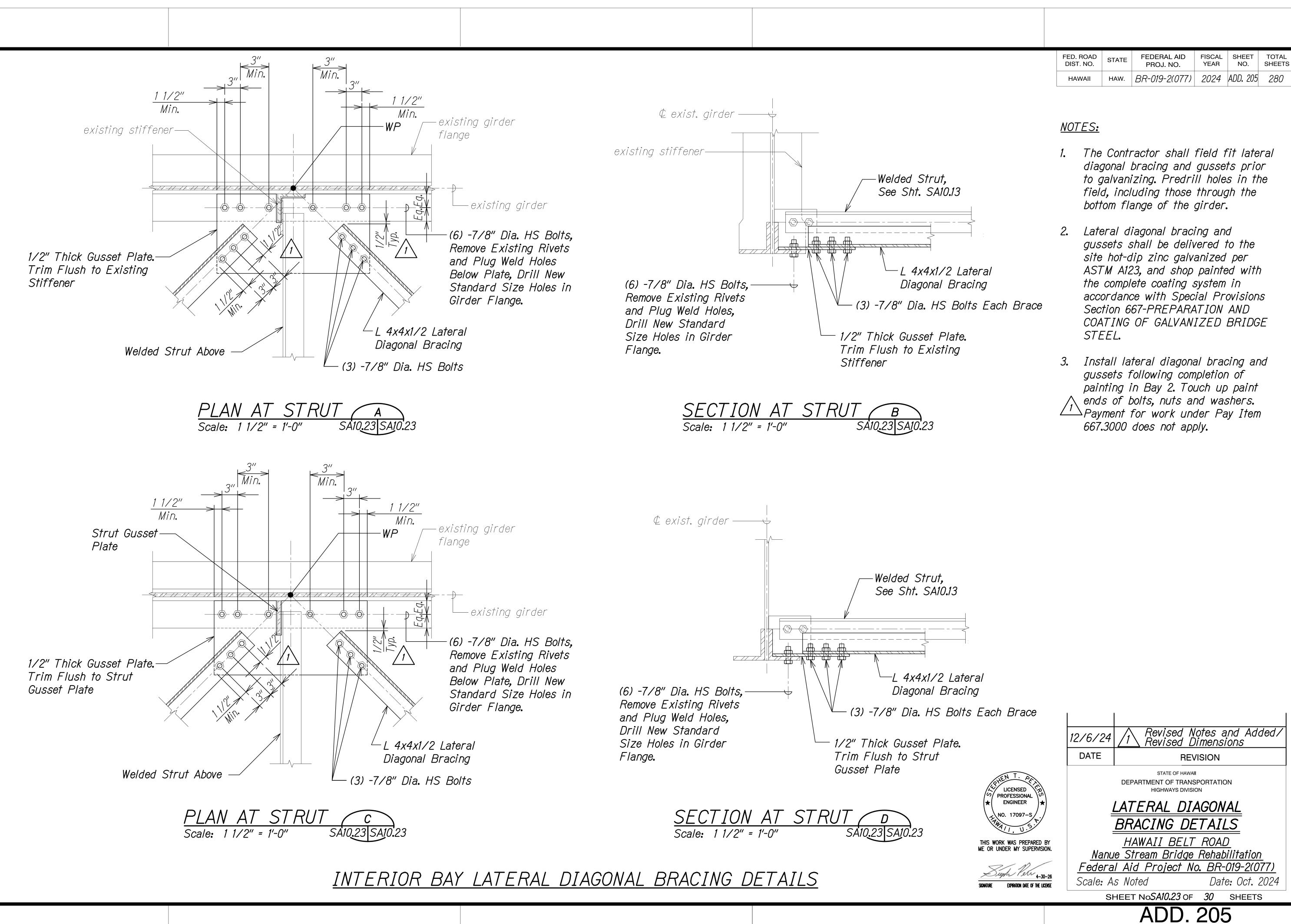
### <u>NOTES:</u>

- The Contractor shall field fit lateral diagonal bracing and gussets prior to galvanizing. Predrill holes in the field, including those through the bottom flange of the girder.
- 2. Lateral diagonal bracing and gussets shall be delivered to the site hot-dip zinc galvanized per ASTM A123, and shop painted with the complete coating system in accordance with Special Provisions Section 667-PREPARATION AND COATING OF GALVANIZED BRIDGE STEEL.
- Install lateral diagonal bracing and gussets following completion of painting in Bay 2. Touch up paint ends of bolts, nuts and washers.  $\square$  Payment for work under Pay Item 667.3000 does not apply.

SHEET NoSA10.22 OF 30 SHEETS

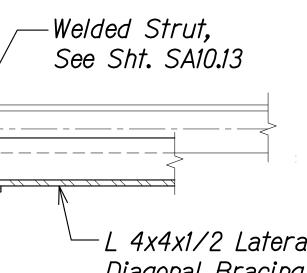
ADD. 204

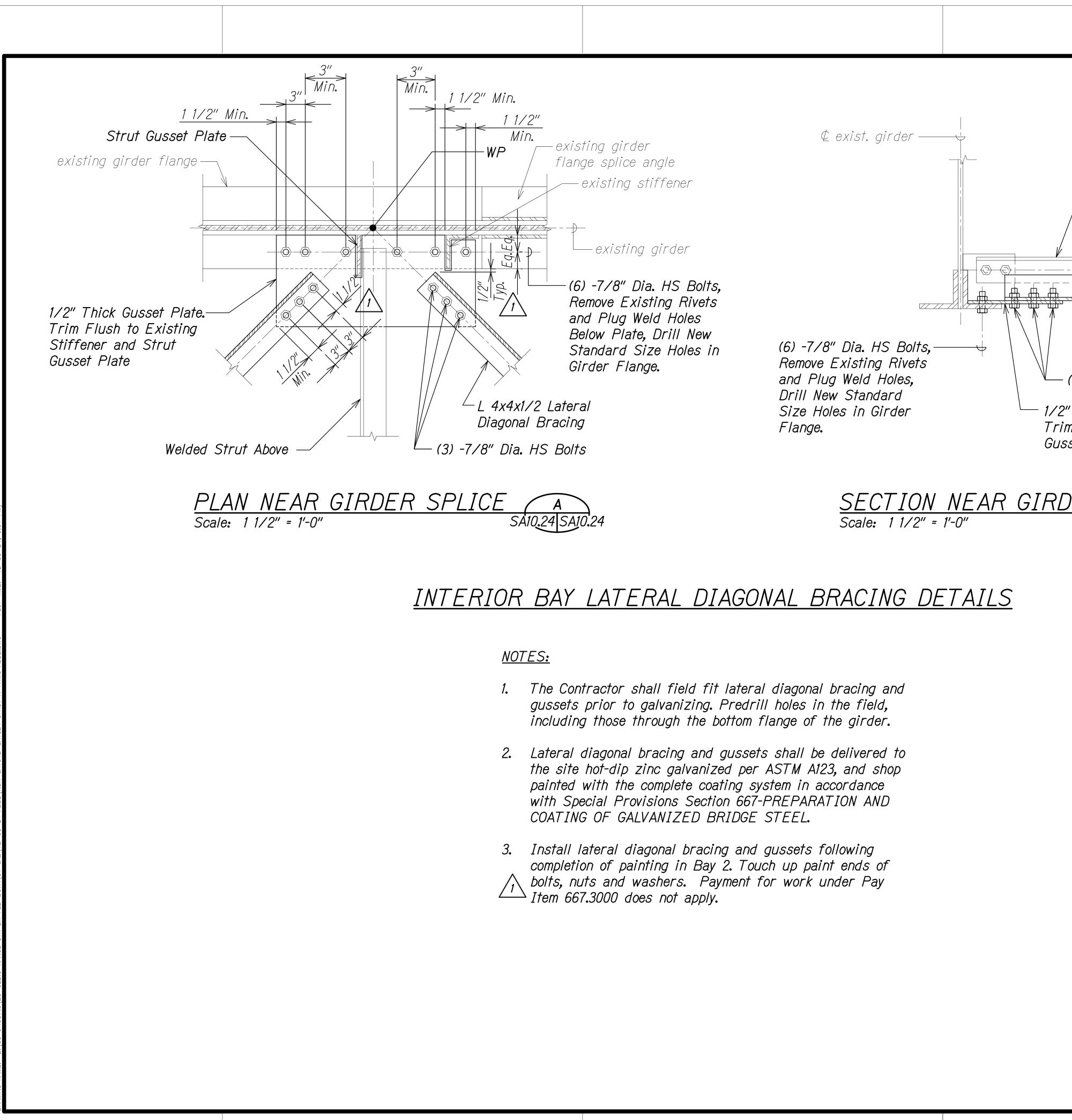




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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 205	280





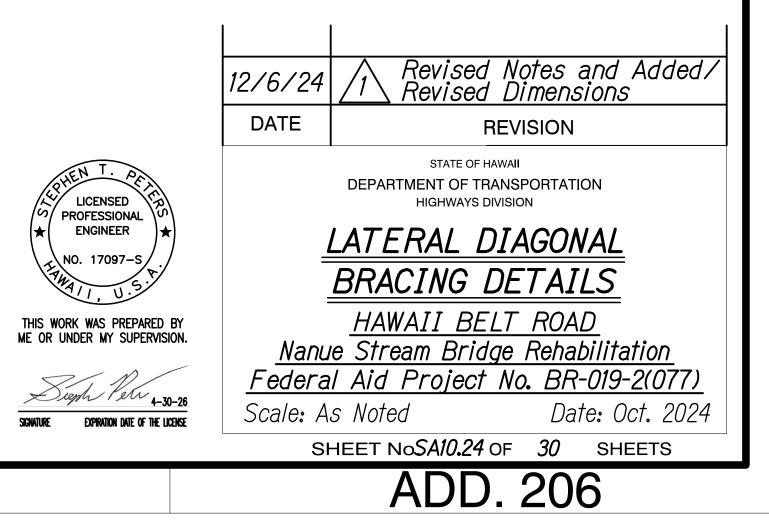
SECTION NEAR GIRDER SPLICE ( B SA10.24 SA10.24

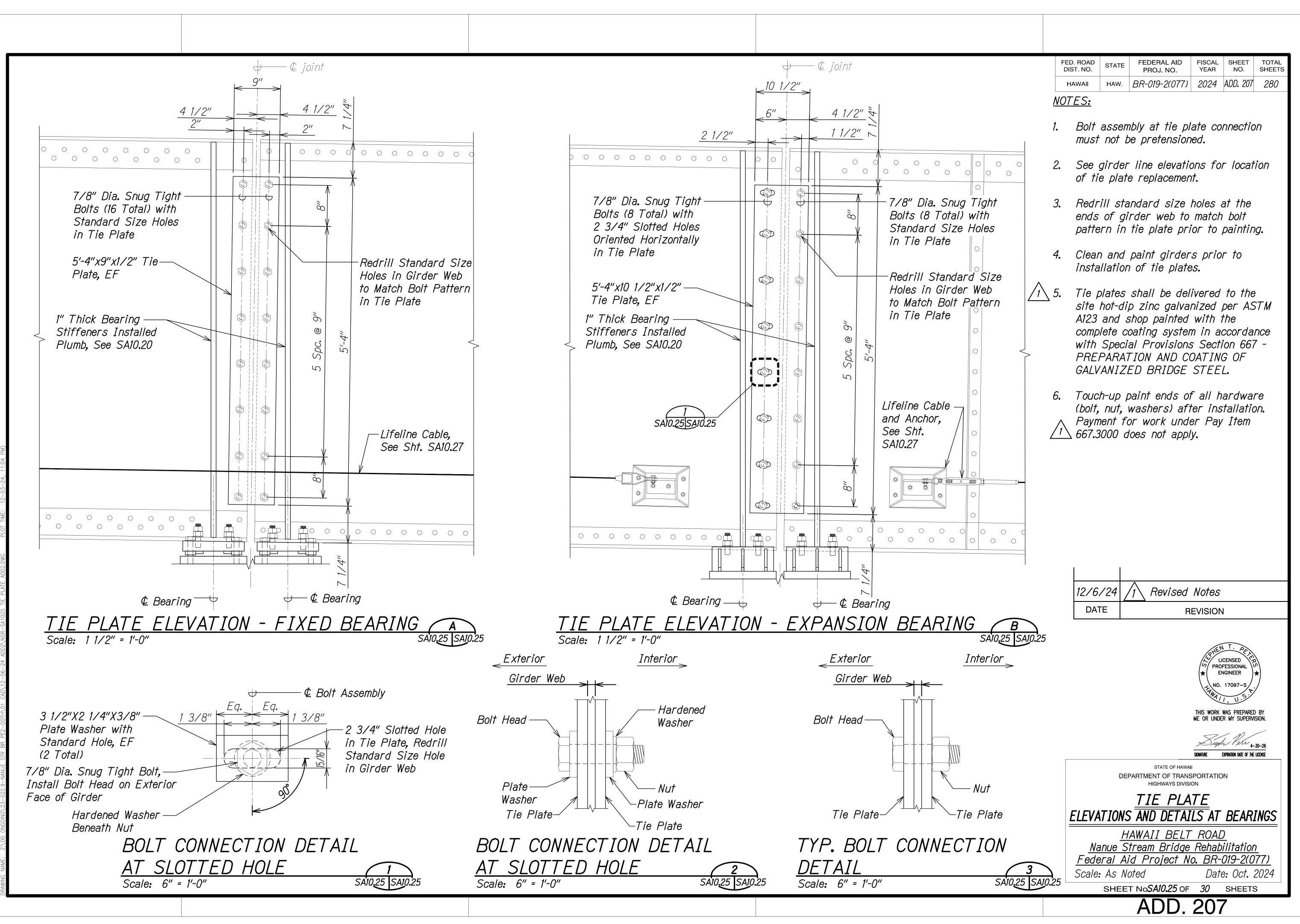
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(077)	2024	ADD. 206	280

-Welded Strut, See Sht. SA10.13 —L 4x4x1/2 Lateral Diagonal Bracing

- (3) -7/8" Dia. HS Bolts Each Brace

1/2" Thick Gusset Plate. Trim Flush to Strut Gusset Plate





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