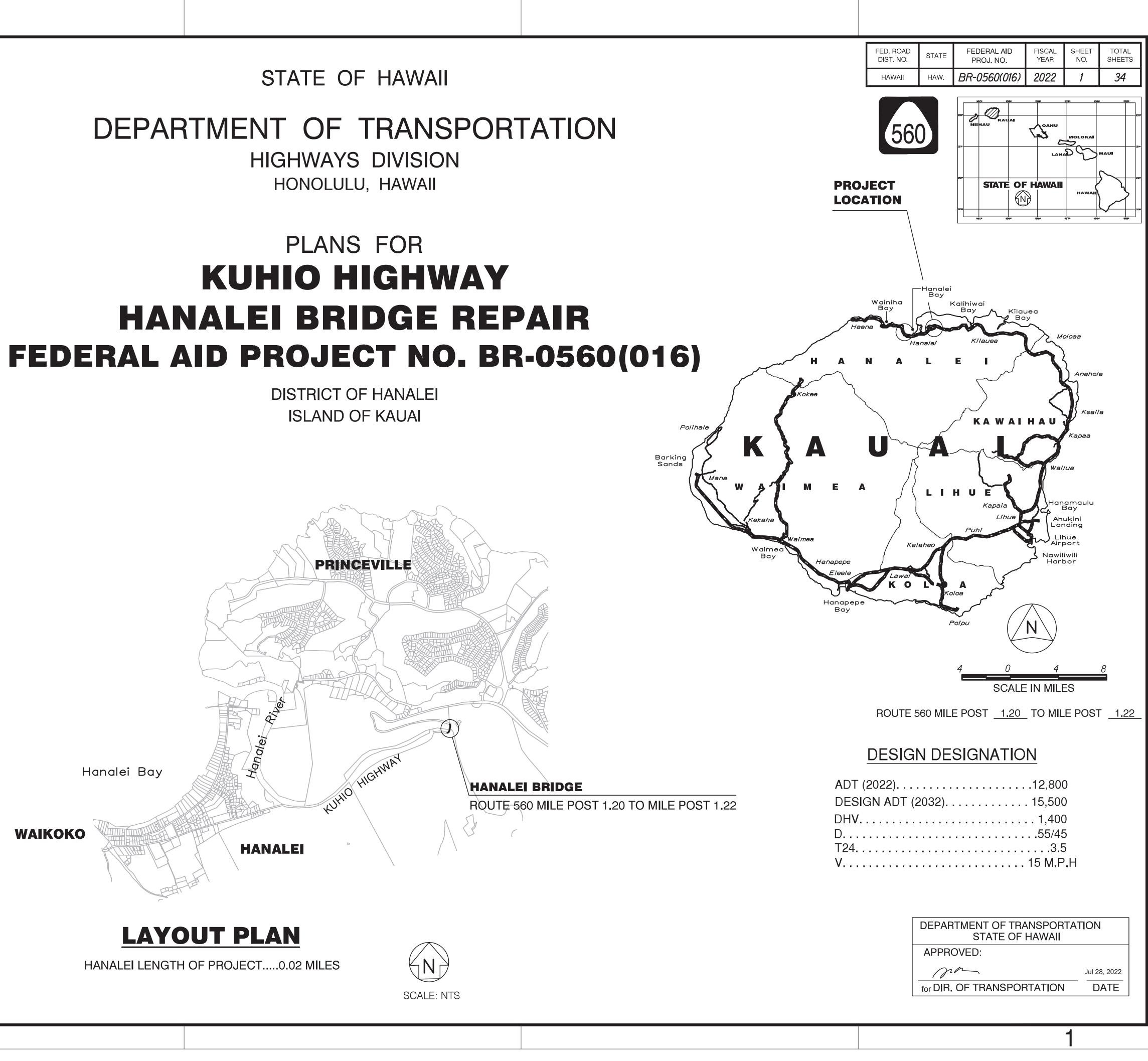
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3 - 8	GENERAL NOTES & LEGEND
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12	WATER POLLUTION AND EROSION CONTROL DETAILS
13	EROSION CONTROL PLANS
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17-19	TRAFFIC CONTROL PLANS, NOTES AND LEGEND
20-34	STRUCTURAL PLANS



HIGHWAYS DIVISION HONOLULU, HAWAII

PLANS FOR **KUHIO HIGHWAY** HANALEI BRIDGE REPAIR

ISLAND OF KAUAI



STANDARD		
PLAN NO.	TITLE	DATE
B-01 ●	NOTES & MISCELLANEOUS DETAILS	05/31/07
B-03 ·	BACKFILL DETAILS AT EARTH RETAINING STRUCTURES	05/31/07
B-12 ·	PRESTRESSED CONCRETE PILES & COMPRESSION SPLICE	05/31/07
	CAN DETAILS	
B-12A ·	PRESTRESSED CONCRETE PILES, PILE & COMPRESSION	05/31/07
D 40D	SPLICE CAN DETAILS & NOTES	05 (74 (07
B-12B ·	PILE INTERACTION DIAGRAM	05/31/07
B-13 ·	PRESTRESSED CONCRETE PILE BUILD-UP DETAILS	05/31/07
D-01 ·	CATTLE GATE	05/31/07
D-02 ·	CHAIN LINK FENCE WITH TOPRAIL	05/31/07
D-03 ·	CHAIN LINK FENCE WITHOUT TOPRAIL	05/31/07
D-04 ·	WIRE FENCE WITH METAL POSTS	05/31/07
D-05 ·	TYPICAL DETAILS OF CURBS AND/OR GUTTERS	05/31/07
D-06 ·	TYPICAL DETAIL OF REINFORCED CONCRETE DROP DRIVEWAY	05/31/0
D-07 ·	CENTERLINE AND REFERENCE SURVEY MONUMENTS	05/31/07
D-08 ·	STREET SURVEY MONUMENT	05/31/0
D-15	CONCRETE SIDEWALK	05/31/07
D-16 ·	P.C.C. BUS PAD P.C.C. BUS PAD	05/31/0
D-17 · D-18 ·	P.C.C. PAVEMENT LAYOUT	05/31/0 05/31/0
D-18 ·	P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS	05/31/0
D-20 ·	P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS	05/31/07
D-21 ·	P.C.C. LONGITUDINAL JOINT DETAILS	05/31/0
D-22 ·	P.C.C. CONNECTION TO CURBS AND GUTTERS	05/31/07
D-23 ·	JOINTS	05/31/07
L-01 ·	TREE PLANTING	08/16/06
L-02 ·	TREE PLANTING	08/16/06
L-03 ·	TREE TRANSPLANTING	08/16/06
L-04 ·	PALM PLANTING	08/16/06
L-05 ·	SHRUB PLANTING	08/16/06
L-06 ·	LANDSCAPE DETAILS	08/16/06
L-07 ·	LANDSCAPE DETAILS	08/16/06
L-08 ·	LANDSCAPE DETAILS	08/16/06
L-09 ·	LANDSCAPE DETAILS	08/16/06
L-10 ·	LANDSCAPE DETAILS	08/16/00
L-11 ·	PLANTING NOTES	08/16/06
L-12 ·	IRRIGATION DETAILS	08/16/06
L-13 ·	IRRIGATION DETAILS IRRIGATION DETAILS	08/16/06
L-14 · L-15 ·	IRRIGATION DETAILS	08/16/06
L-15 ·	IRRIGATION DETAILS	08/16/06
L-17 ·	IRRIGATION DETAILS	08/16/06
L-18 ·	IRRIGATION DETAILS	08/16/06
L-19 ·	IRRIGATION DETAILS	08/16/06
L-20 ·	IRRIGATION DETAILS	08/16/06
L-21 ·	IRRIGATION DETAILS	08/16/06
L-22 ·	IRRIGATION DETAILS	08/16/06
L-23 ·	IRRIGATION DETAILS	08/16/06
		08/16/06

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ORIGINAL	PLAN		NULE BUUN		No	

STANDARD PLAN

TAND 'LAN		TITLE	DATE
H-01A	•	TYPE A CATCH BASIN	05/31/07
H-01B	•	TYPE B CATCH BASIN	05/31/07
H-01C	•	TYPE C CATCH BASIN	05/31/07
H-01D	•	TYPE D CATCH BASIN	05/31/07
H-01E	•	CATCH BASIN SECTIONS	05/31/07
H-02A	•	TYPE A1 CATCH BASIN	05/31/07
H-02B	•	TYPE B2 CATCH BASIN	05/31/07
H-02C	•	TYPE C1 CATCH BASIN	05/31/07
H-02D	•	TYPE D1 CATCH BASIN	05/31/07
H-02E	•	CATCH BASIN SECTION	05/31/07
H-03	•	TYPE A,B, AND C STORM DRAIN MANHOLE	05/31/07
H-04	•	TYPE D STORM DRAIN MANHOLE	05/31/07
H-05		TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES	05/31/07
H-06		TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES	05/31/07
H-07		CATCH BASIN AND MANHOLE CASTINGS	05/31/07
H-08	•	TYPE 1A-9 AND 1A-9P GRATED DROP INLET	05/31/07
H-09	•	TYPE 2A-9 AND 2A-9P GRATED DROP INLET	05/31/07
H-10	•	TYPE A-9 OR A-9P STEEL FRAMES	05/31/07
H-11		TYPE A-9 AND A-9P STEEL GRATES	05/31/07
H-12		TYPE 61614P AND 1211214P GRATED DROP INLET	05/31/07
H-13	•	TYPE 61616P AND 1211216P GRATED DROP INLET	05/31/07
H-14		TYPE 61214P GRATED DROP INLET	05/31/07
H-15		TYPE 1211214, 1211214P, 1211216, 1211216P STEEL	05/31/07
		FRAME AND GRATES	
H-16		TYPE 61614, 61614P, 61616, 61616P STEEL FRAME	05/31/07
		AND GRATES	
H-17		TYPE 61214 STEEL FRAMES AND GRATES	05/31/07
H-18		TYPE 61214P STEEL GRATES	05/31/07
H-19	•	TYPE 61614B STEEL FRAME AND GRATES	05/31/07
H-20	•	CEMENT RUBBLE MASONRY STRUCTURES	05/31/07
H-21	•	CONCRETE AND CEMENT RUBBLE MASONRY STRUCTURES	05/31/07
H-22	•	INLET/OUTLET STRUCTURE	05/31/07
1-23	•	INLET/OUTLET STRUCTURE	05/31/07
1-24	•	FLARED END SECTION FOR CULVERTS	05/31/07
1-25	•	FLARED END SECTION FOR CULVERTS	05/31/07
1-26	•	CONCRETE SPILLWAY INLET	05/31/07
1-27		CAP COUPLING DETAILS STANDARD JOINT	05/31/07
1-28	•	REINFORCED CONCRETE COLLAR & JACKET	05/31/07
1-29	•	UNDERDRAIN CLEANOUT STEEL FRAME AND COVER	05/31/07
1-30		UNDERDRAIN CONNECTION TO DRAINAGE STRUCTURE	05/31/07
	r		
TE-01	·	SIGN HEIGHT AND LOCATION	07/11/08
TE-1A	•	SIGN INSTALLATION	07/11/08
TE-02A	•	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-02B	•	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-02C	•	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-03A		GALVANIZED SQUARE TUBE SIGN POST MOUNTING	05/31/07

GALVANIZED SQUARE TUBE SIGN POST MOUNTING

TE-03B

TE-04

REGULATORY SIGNS

TE-06 · MISCELLANEOUS SIGNS

TE-07
CONSTRUCTION SIGNS

TE-08 · MISCELLANEOUS INTERSECTION SIGNS

TE-05 • WARNING SIGNS

05/31/07

07/11/08

07/11/08

07/11/08

07/11/08

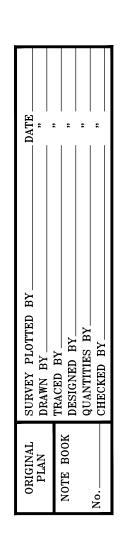
07/11/08

	NS					FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTA SHEET
PLAN NO. LTILE DATE 10:0 INTER KIT SOLA SPECIATE/PLATES DATION 11:10:0 INTERVIEW MARE NO BORIES DELAL DATION 11:11:1 STRE RUNCE MARE NO BORIES DELAL FOR CONTINUE DATION 11:11:1 STRE RUNCE MARE NO BORIES DELAL FOR CONTINUE DATION 11:11:1 STRE RUNCE MARE NO BORIES DELAL FOR CONTINUE DATION 11:11:1 STRE RUNCE MARE NO BORIES DELAL FOR CONTINUE DATION 11:11:1 STRE RUNCE MARE NO BORIES DELAL FOR CONTINUE DATION 11:11:1 STRE RUNCE MARE NO BORIES DELAL FOR CONTINUE DATION 11:11:1 STRE RUNCE STANK STRE NO BORIES DELAL FOR CONTINUE DATION 11:11:1 STRE RUNCE STANK STRE NO BORIES DELAL FOR CONTINUE DATION 11:11:1 STRE RUNCE STANK STRE NO BORIES DELAL FOR CONTINUE DATION 11:11:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:1:	$\mathbb{A} \otimes$					HAWAII	HAW.	BR-0560(016)	2022	2	34
TH-10: Interstrute Built Marker AD AURLIAH WARKER 07/17/00 TE-11: STATE RUITE MARKER AD BORGE TETALL FOR 07/17/00 TE-12: STATE RUITE MARKER AD BORGE TETALL FOR 07/17/00 TE-12: STATE RUITE MARKER AD BORGE TETALL FOR 07/17/00 TE-12: STATE RUITE MARKER AD BORGE TETALL FOR 07/17/00 TE-13: STATE TWARK STATE ADM 07/17/00 TE-14: MISSIELMELOS REFLECTIV MARKER AD BORGE TETALL FOR THE ADM 07/17/00 TE-14: MISSIELMELOS REFLECTIV MARKER AD BORGE TETALL FOR THE ADM 07/17/00 TE-14: MISSIELMELOS REFLECTIV MARKER AD BORGE TETALL FOR THE ADM 07/17/00 TE-14: MISSIELMELOS REFLECTIV MARKER AD BORGE TETALL FOR THE ADM (11/10) 07/17/00 TE-14: MISSIELMELOS REFLECTIV MARKER AD OFTALLS 07/17/00 TE-17: CARTIELERS NI FINANE RELIAL AD CETALLS 07/17/00 TE-17: CARTIELERS NI FINANE RETALLA DE SECTION	STANDARD PLAN NO•	TITLE	DATE				ΤI	TLE		D	DATE
TH-1 STATE ROTE NORMER AND AUXILIAPY MARKES 07/17/00 L-22 STATE ROTE NORMER AND RODER JETALL 7/9 07/17/00 L-24 STATE ROTE NORMER AND RODER JETALL 7/9 07/17/00 L-24 STATE TAWE STOKE 07/17/00 L-24 STREET NAME STOK ON INST AND 07/17/00 L-24 AUXIE ROTOR NORMER AND AUXILIAPY MARKES 07/17/00 L-24 MARKES AND AUXIE AND AUXILIAPY MARKES 07/17/00 L-24 MARKES AND AUXIE AND AUXIE AUX	TE-09 ·	BIKE ROUTE SIGN & SUPPLEMENTARY PLATES	07/11/08	TE-31 ·	PAVEI	MENT ALPHAB	ETS, NUN	MBERS & SYMBOLS		07	7/11/08
LI-L2 CALE BUTE WARKER AND BRIVER UTAIL FOR CATTURE UNIT 5 COM SERVER LES 0771705 LI-L4 MUSCLANDERS STALLES 0771705 LI-L4 MUSCLANDERS STALLES 0771705 LI-L4 MUSCLANDERS STALLEOIN WARKES 0771706 LI-L4 MUSCLANDERS STALLEOIN WARKES STALLEOIN WARKES 0771706 LI-L4 MUSCLANDERS STALLEOIN WARKES STALLEOIN WARKES 0771707 LI-L4 MUSCLANDERS STALLEON STALLEOIN WARKES STALLEON WARKES 0771707 LI-L4 MUSCLANDERS STALLEON STALLEO									C. DETAIL		
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Tr-124 DUE Side Scheduls D/11/08 1E-13 STREET MUME SIGN DIM MAR ANA D/11/08 1E-14 MISSELLINGS REFECTION MARKES D/11/08 1E-14 MISSELLINGS REFECTION MARKES D/11/08 1E-15 DALECT WARKES D/11/08 1E-14 MISSELLINGS REFECTION MARKES D/11/08 1E-15 DALECT WARKES D/11/08 1E-16 CALL WARKES D/11/08 1E-17 PALISOL ALONE STOR FRAME CETAL MARKES D/11/08 1E-18 CALL WARKES D/11/08 1E-18 CALL PERT STOR FRAME CETAL MARKES D/11/08 1E-18 CALL PERT STOR FRAME CETAL MARKES D/11/08 1E-18 CALL PERT STOR FRAME CETAL MARKES D/11/08 1E-18 D/11/08 D/11/08 1E-18 D/11/08 D/11/08 1E-18 D/11/08 D/11/08 1E-18 D/11/08 D/11/08 1E-19 D/11/08 D/11/08 1E-14 D/11/08 D/11/08 1E-14 D/11/08 D/11	TE-12 ·		07/11/08								
IE-15 • STREE HWE STOR ON MART AM 0/11/108 IE-16 • BUECE MARKERS 0/11/108 IE-16 • BUECE MARKERS 0/11/108 IE-16 • BUECE MARKERS 0/11/108 IE-17 • MILL ROSTS 0/11/108 IE-16 • BUECE MARKERS 0/11/108 IE-17 • MILL ROSTS 0/11/108 IE-18 • DUECE MARKERS 0/11/108 IE-17 • MILL ROSTS 0/11/108 IE-17 • MILLERK STOR FAME DETAIL 0/0/1107 IE-17 CANTILERK STOR FAME DETAILS 0/0/1107 IE-17 CANTILERK STOR FAME DETAILS 0/0/1107 IE-17 CANTILERK STOR FAME DETAILS 0/0/1107 IE-18 PD DETO DEMEMO STOR FAME DETAILS 0/0/1107 IE-18 PD DETO STOR FAME DETAILS 0/0/1107 IE-18 PD DETAILS 0/0/1107 IE	·		07/44/00					STANDARD			
TE-14 INSCILLATEDS REFLETOR MARCES 0/11/106 TE-15 OBJECT MARCES 0/11/106 TE-15 OBJECT MARCES 0/11/106 TE-16 MILE POIS 0/11/106 TE-17 CANTILLERES TON FRAME DETAIL AND SCIENCE 0/11/106 TE-17 CANTILLERES SION FRAME DETAIL AND SCIENCE 0/11/106 TE-17 CANTILLERES SION FRAME DETAIL AND SCIENCE 0/11/106 TE-17 CANTILLERES SION FRAME DETAIL 0/11/106 TE-17 CANTILLERES SION FRAME DETAILS 0/11/106 TE-17 CONTILLERES SION FRAME DETAILS 0/11/106 TE-18 TMO SPIS TEMER FLAVINGENCE 0/0/11/106 TE-18 TMO SPIS TEMER FLAVINGENCE 0/0/11/106 TE-18 TMO SPIS TEME FLAVINGENCE 0/0/11/106 TE-18 TMO SPIS TEME FLAVINGENCE 0/0/11/107											
TI-15 OBJECT MARKES 01/11/05 1E-14 CAMILERS SIGN FORM DETAIL AD SECTION 65/31/07 1E-17 CAMILEVER JORFENE DETAIL 65/31/07 1E-18 1774 174 1E-17 CAMILEVER JORFENE DETAIL 65/31/07 1E-18 1776 1784 1784 1E-18 1797 1784 1784 1784 1E-18 1797 1784 1784 1784 1784 1E-18 1797 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 1784 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>JETAILS</td> <td></td> <td></td> <td></td>								JETAILS			
Tr-16 ULE POSTS 07/11/20 Te-17a CANTELEVER DIGENED SIGN ELEVATION & DETAILS 05/31/01 Te-17b CENTREDUCER DIGENED SIGN ELEVATION & DETAILS 05/31/01 TE-17b CENTREVERS SIGN FRAME DETAIL MO SECTION 05/31/01 TE-17b CENTREVERS SIGN FRAME DETAIL MO SECTION 05/31/01 TE-17b CENTREVERS SIGN FRAME DETAILS 05/31/01 TE-14b ThO POST SIGN	-										
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III-178 CENTLEVER SIGN FRAME DETAIL NO SECTION 65/31/07 IE-170 CENTLEVER SIGN FRAME DETAIL 65/31/07 IE-170 CENTLEVER SIGN FRAME DETAIL 65/31/07 IE-170 CENTLEVER SIGN FRAME DETAILS 65/31/07 IE-174 CENTLEVER SIGN FRAME DETAILS 65/31/07 IE-176 CENTLEVER SIGN FRAME DETAILS 65/31/07 IE-176 DEPOST SIGN FRAME DETAILS 65/31/07 IE-186 TIOP POST SIGN FRAME DETAILS 65/31/07 IE-186 SIGN FRAME DETAILS 65/31/07 IE-186 SIGN FRAME DETAILS 65/31/07 IE-180 SIGN FRAME DETAILS 65/31/07 <td></td>											
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TE-170 CENTLEMEN SION FRAME SECTION 05/31/07 TE-17E CENTLEMEN SION FRAME SECTION 05/31/07 TE-18A TWO PGST OWERRAD SION FRAME LEVATIONS 05/31/07 TE-18A TWO PGST OWERRAD SION FRAME LEVATIONS 05/31/07 TE-18B TWO PGST SION FRAME SECTION AND DETAILS 05/31/07 TE-18B TWO PGST SION FRAME SECTION AND DETAILS 05/31/07 TE-18B TWO PGST SION FRAME DETAILS 05/31/07 TE-18B TWO PGST SION FRAME DETAILS 05/31/07 TE-184 OVERREAD SION FRAME DETAILS 05/31/07 TE-184 SION PERSION FRAME DETAILS 05/31/07 TE-184 SION PRAME DETAILS 05/31/07 TE-195 SION FRAME DETAILS 05/31/07 TE-196 SION FRAME DETAILS 05/31/07 TE-190 SION FRAME DETAILS 05/31/											
TE-17E CENTLELEGE STON FRAME DETAILS 65/31/07 TE-18B TWD POST OVERHEAD STON FRAME DETAILS 65/31/07 TE-18B TWD POST OVERHEAD STON FRAME DETAILS 65/31/07 TE-18B TWD POST STON FRAME DETAILS 65/31/07 TE-19E STON FRAME FOUNDATION 65/31/07 TE-19E STON FRAME FOUNDATION SCHEDULE 65/31/07 TE-19D STON FRAME FOUNDATION SCHEDULE<											
TE-14A TUP TUP TUP ************************************											
TE-188 TOP PGT SIGN FRANINO PLAN SECTION 65/31/07 TE-180 TOD PGT SIGN FRANINO SECTIONS AND DETAILS 05/31/07 TE-180 TOD PGT SIGN FRANE DETAILS 05/31/07 TE-180 TOD PGT SIGN FRANE DETAILS 05/31/07 TE-184 OVERHEAD SIGN FRANE DETAILS 05/31/07 TE-184 OVERHEAD SIGN FRANE DETAILS 05/31/07 TE-184 OVERHEAD SIGN FRANE DETAILS 05/31/07 TE-184 SIGN FRANE DOLT DES NON FRANE DETAILS 05/31/07 TE-184 SIGN FRANE FOUNDATION SCHEDULE 05/31/07 TE-195 SIGN FRANE FOUNDATION SCHEDULE 05/31/07 TE-190 SIGN FRANE FOUNDATION SCHEDULE 05/31/07 TE-191 SIGN FRANE FOUNDATION SCHEDULE 05/31/07 TE-192 SIGN FRANE FOUNDATION SCHEDULE 05/31/07 TE-193 SIGN FRANE FOUNDATION SCHEDULE 05/31/07 TE-194 SIGN FRANE FOUNDATION SCHEDULE 05/31/07 TE-195 SIGN FRANE FOUNDATION SCHEDULE 05/31/07 TE-196 MISCELLANEDIS SIGN FRANE FOUNDATION SCHEDULE 05/31/07 TE-197			05/31/07							05	5/31/07
TE-180 TWO PIST SIGN FRAME DETAILS 05/31/07 TE-180 TWO PIST SIGN FRAME DETAILS 05/31/07 TE-194 OVERHEAD SIGN FRAME DETAILS 05/31/07 TE-194 OVERHEAD SIGN FRAME DETAILS 05/31/07 TE-194 OVERHEAD SIGN FRAME DETAILS 05/31/07 TE-195 SIGN FRAME FOUNDATION 05/31/07 TE-196 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-190.1 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-190.2 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-190.3 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-190.4 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-191.4 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-192.5 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-193.4 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-194.5 ANCHORAGE DETAILS 05/31/07 TE-195.4 ANCHORAGE DETAILS 05/31/07 TE-196.4 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-197.4 MISCELLANEDUS SIGN FRAME ENDILE 05/31/07 TE-198.4 LUMININE KURWAY SUPP	TE-18B ·	TWO POST SIGN FRAMING PLAN SECTION	05/31/07	TE-37H ·	TYPE	"C" TRAFFI	C PULLBO	DX FOUNDATION		05	5/31/07
IE-19E IND POST SIGN FRAME DETAILS 05/31/07 IE-19E SIGN FRAME DETAILS 05/31/07 IE-19B SIGN FRAME DETAILS 05/31/07 IE-19B SIGN FRAME DETAILS 05/31/07 IE-19B SIGN FRAME FOUDIATION 05/31/07 IE-19C SPREAD FOOTING 05/31/07 IE-19D SIGN FRAME FOUDIATION SCHEDULE 05/31/07 IE-19D2 SIGN FRAME FOUDIATION SCHEDULE 05/31/07 IE-19D3 SIGN FRAME FOUDIATION SCHEDULE 05/31/07 IE-19D5 SIGN FRAME FOUDIATION SCHEDULE	TE-18C ·	TWO POST SIGN FRAMING SECTIONS AND DETAILS	05/31/07	TE-37J ·	TRAF	FIC PULLBOX	COVER A	AND DETAILS		05	5/31/07
TE-19A OVERHEAD SIGN FRANING SCHEDULE 06/31/07 TE-19B SIGN POST DRILLED SHAFT FOUNDATION 06/31/07 TE-190 SPERAD FOOTING 06/31/07 TE-190 SIGN FOR EQUIDE SHAFT FOUNDATION 06/31/07 TE-190 SIGN FOR EQUIDE SHAFT FOUNDATION 06/31/07 TE-190 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-191 DIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-192 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-193 FILM SCHLAMEDUS SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-194 ANCIORAGE DETAILS 06/31/07 TE-195 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-196 NISCELLANEOUS SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-197 ANCIORAGE DETAILS 06/31/07 TE-198 NISCELLANEOUS SIGN FEAME FOUNDATION SCHEDULE 06/31/07 TE-200	TE-18D ·	TWO POST SIGN FRAME DETAILS	05/31/07	TE-38 ·	TYPE	III TRAFFI	C SIGNAL	_ STANDARD		05	5/31/07
TE-198 SIGN POST DRILLED SHAFT FOUNDATION 06/31/07 TE-198 SIGN POST DRILLED SHAFT FOUNDATION 06/31/07 TE-190 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-190.1 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-190.2 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-190.4 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-190.4 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-190.5 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-191.4 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-192.4 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-193.4 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-194.4 SIGN FAME FOUNDATION SCHEDULE 06/31/07 TE-195.4 MICSELLANEOUS SIGN FEALS 06/31/07 TE-194.4 MICSELLANEOUS SIGN FEALS 06/31/07 TE-194.4 MICSELLANEOUS SIGN ETAILS 06/31/07 TE-194.4 MICSELLANEOUS SIGN ETAILS 06/31/07 TE-204 SUPPORTS FOR CROUND MOUNTEO DUIDE SIGN 06/31/07 TE-219.4 <t< td=""><td>TE-18E ·</td><td>TWO POST SIGN FRAME DETAILS</td><td>05/31/07</td><td>TE-38A.1 ·</td><td>TYPE</td><td>III TRAFFI</td><td>C SIGNAL</td><td>_ STANDARD</td><td></td><td>05</td><td>5/31/07</td></t<>	TE-18E ·	TWO POST SIGN FRAME DETAILS	05/31/07	TE-38A.1 ·	TYPE	III TRAFFI	C SIGNAL	_ STANDARD		05	5/31/07
TE-19C SPREAD FOOTING UD5/31/07 TE-19D SIGN FRAME FOUNDATION SCHEDULE 06/31/07 TE-19D.2 SIGN FRAME FOUNDATION SCHEDULE 06/31/07 TE-19D.4 MISCELLANEOUS SIGN FRAME DETAILS 06/31/07 TE-19D.4 MISCELLANEOUS SIGN BETAILS 06/31/07 TE-19D.4 MISCELLANEOUS SIGN BETAILS 06/31/07 TE-20A SUPPORTS FOR GROUND MOUNTED GUIDE SIGN 06/31/07 TE-23A SIGN BREAKAIXAY MOUNTS 06/31/07 TE-244 SOLD ALUMINING SIGN PRAMEL OF MARELS (OVERTER) 06/31/07 TE-245 GUIDE MININTED GUIDE SIGN 06/31/07 TE	TE-19A ·	OVERHEAD SIGN FRAMING SCHEDULE	05/31/07	TE-38A.2 ·	TYPE	III TRAFFI	C SIGNAL	_ STANDARD		05	5/31/07
IE-190 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 IE-190.1 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 IE-190.2 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 IE-190.3 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 IE-190.4 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 IE-191.4 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 IE-192.4 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 IE-193.4 LUMINARE BALKWAY SUPPORT 05/31/07 IE-194.4 HUMINARE BALKWAY SUPPORT 05/31/07 IE-194.4 MISCELLANEOUS SIGN FRAME DETAILS 05/31/07 IE-204.5 SUPPORTS FOR GROUND MOUNTED GUIDE SIGN 05/31/07 IE-205.5 SUPPORTS FOR GROUND MOUNTED GUIDE SIGN 05/31/07 IE-2214.5 SIGN BEALAWAY MOUNTS 05/31/07	TE-19B ·	SIGN POST DRILLED SHAFT FOUNDATION	05/31/07	TE-39 ·	METAL	GUARDRAIL	CONNECT	TION TO CONCRETE	E BARRIER	07	7/11/08
TE-19D.1 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-19D.2 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-19D.3 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-19D.4 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-19D.5 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-19D.5 SIGN FRAME FOUNDATION SCHEDULE 05/31/07 TE-19D.4 ANCHORAGE DETAILS 05/31/07 TE-19D.4 ANCHORAGE DETAILS 05/31/07 TE-19D.4 ANCHORAGE DETAILS 05/31/07 TE-19D.4 NISCELLANEOUS SIGN FRAME DETAILS 05/31/07 TE-19L MISCELLANEOUS SIGN DETAILS 05/31/07 TE-19L MISCELLANEOUS SIGN DETAILS 05/31/07 TE-19L MISCELLANEOUS SIGN DETAILS 05/31/07 TE-20L SUPPORTS FOR GROUND MOUNTED GUIDE SIGN 05/31/07 TE-220E SUPPORTS FOR GROUND MOUNTED GUIDE SIGN 05/31/07 TE-221 LAMINATED ALIMINATICS SIGN PAMELS (OVERHEAD 05/31/07 TE-224 SOLID ALIMINATICS MOD MOUNTED GUIDE SIGN 05/31/07 TE-225 GUIDE SIGN BEAKAMAY MOUNTS 05/31/07 TE-226 <td></td> <td></td> <td></td> <td>TE-40 ·</td> <td>CONC</td> <td>RETE BARRIE</td> <td>R TRANSI</td> <td>ITION</td> <td></td> <td></td> <td></td>				TE-40 ·	CONC	RETE BARRIE	R TRANSI	ITION			
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TE-190.5SIGN FRAME FOUNDATION SCHEDULE $05/31/07$ $TE-49C.5$ SIGN FRAME FOUNDATION SCHEDULE $05/31/07$ TE-19FANCHORAGE DETAILS $05/31/07$ $05/31/07$ $TE-46$ DELINEATION & PAVEMENT MARRINGS AT NARROW BRIDGES $07/11/08$ TE-19FANCHORAGE DETAILS $05/31/07$ $05/31/07$ $TE-47$ HIGHWAY LIGHT STANDARD $05/31/07$ TE-19LMISCELLANEOUS SIGN FRAME DETAILS $05/31/07$ $05/31/07$ $TE-47$ HIGHWAY LIGHT STANDARD $05/31/07$ TE-19LMISCELLANEOUS SIGN DETAILS $05/31/07$ $05/31/07$ $05/31/07$ $TE-20C$ SUPPORTS FOR GROUND MOUNTED GUIDE SIGN $05/31/07$ TE-20CSUPPORTS FOR GROUND MOUNTED GUIDE SIGN $05/31/07$ $05/31/07$ $05/31/07$ TE-22CLAMINATED AUMINUM SICN PANELS (OVERHEAD) $05/31/07$ $05/31/07$ TE-22CSIGN BREAKANAY MOUNTS $05/31/07$ $05/31/07$ $05/31/07$ TE-22CSIGN BREAKANAY MOUNTS $05/31/07$ $05/31/07$ $05/31/07$ TE-22CLAMINATED AUMINUM SICN PANELS (OVERHEAD) $05/31/07$ $05/31/07$ TE-23CSIGN BREAKANY MOUNTS $05/31/07$ $05/31/07$ TE-24SOLID ALUMINUM EXTRUDED SIGN PANEL AND $05/31/07$ TE-25GUIDE SIGNS LUMINARES AND STRIPING $07/11/08$ TE-26RISED PAVEMENT MARKINGS AND STRIPING $07/11/08$ TE-27RAISED PAVEMENT MARKINGS AND STRIPING $07/11/08$ TE-28ENTRANCE AND EXIT PAVEMENT MARKINGS $07/11/08$ TE-28ENTRANCE AND EXIT PAVEMENT MARKINGS $07/11/08$			<u> </u>								
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CENERAL NOTES

1.	The scope of work for this project consists of repairing the Hanalei Bridge by replacing the timber decking, stringers, wearing surface, replacing steel bolts, replacing corroded s members, abrasive blasting and painting the entire structure
	vegetation from the existing bridge structure, installation, i and removal of temporary erosion control measures, and we traffic control.
2.	Subsection 105.16(A) - Subcontract Requirements requires th Contractor to perform work amounting to not less than 30 the total contract cost less deductible items.
3.	The Contractor's attention is directed to the following Sect Standard Specifications and the Special Provisions: Subse - Maintenance of Traffic; Subsection 105.09 - Coordination the Contractors; Subsection 107.06 - Contractor Duty Regard Convenience; Subsection 107.12 - Protection of Persons and and Section 645 - Work Zone Traffic Control.
4.	The existence and location of underground utilities, manhol monuments and structures as shown on the plans are from available data but the accuracy is not guaranteed. The en of other obstacles during the course of work is possible. Contractor shall be held liable for any damages incurred to existing facilities and/or improvements as a result of his
- -	All existing utilities, whether or not shown on the plans, she be protected at all times by the Contractor during construc- unless specified on the plans to be abandoned. All existing utility/light poles, overhead utilities and guy poles/wires s remain in place and operational. The Contractor shall be h liable for any damages incurred to the existing utilities as result of his operations. All damaged portions shall be rep in accordance with the standards and specifications of the affected utility company at no cost to the County. No delay extensions of contract time will be allowed as a result of required repairs.
•	The Contractor shall indemnify and be solely responsible for protection of adjacent properties, utilities, and existing str from damages due to construction. Repairing any damage s the Contractor's own expense, to the satisfaction of the En
7.	The existing drainage system shall be kept functional at al during construction. Furnish materials, equipment, labor, to incidentals necessary to maintain flow. This work shall be incidental to the various contract items.
8.	No material or equipment shall be stockpiled or otherwise s within State right-of-way except at locations shown on the designated in writing and approved by the Engineer. The shall be responsible for obtaining additional staging area i
9.	When trench excavation is adjacent to existing structures (facilities, the Contractor is responsible for properly sheeting

bracing the excavation and stabilizing the existing ground to render it safe and secure from possible slides, cave-ins, and settlement. Provide beams, struts, or underpinning as necessary. This work shall be considered incidental to various contract items.



<u>GENERAL NOTES, CON'T:</u>

- 10. All graded areas and all grassed areas damaged by construction activities shall be planted in accordance with Specifications Section 641 - Hydro-Mulch Seeding. This work shall be considered incidental to the various contract items.
- 11. Work required to complete the project but not itemized specifically in the proposal shall be considered incidental to the various contract items and shall not be paid for separately.
- 12. The Contractor shall conduct his operations so as to offer the least possible obstructions and inconvenience to the public and he shall have under construction no greater length or amount of work that he can execute properly with due regard to the rights of the public.
- 13. Guardrail Paint:
 - a) Contractor shall shop coat all members. Field coating shall consist of touch up only.
 - b) Color for top coat shall be gray color. Intermediate coat shall have a contrasting light color. Finish for top coat shall not be gloss or high gloss.
 - c) See special coating options in the schedule below.

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		FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	Scale: None Date: July 2022
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1.	The Contractor shall obtain a permit to perform work up Highways from the State Highways' District Engineer, a Haleukana Street, Lihue, Hawaii, prior to commencement the State's Highway Right-of-Way.
2.	Construction and restoration of all existing highway fac the State's Right-of-Way, including the legal relations an to the public, shall be in accordance with the current S Specifications for Road, Bridge and Public Works Const the Specifications for Installation of Miscellaneous Impr within State highways, of the State Highways Division.
3.	Work shall be performed only between the hours shown Provisions 645, unless otherwise permitted by the Distri
4.	The Contractor shall provide, install and maintain all ne lights, flares, barricades, markers, cones, and other pro- facilities, and shall take all necessary precautions for t convenience, and safety of public traffic. All such protect and precautions to be taken shall conform with the "Add Rules of Hawaii Governing the Use of Traffic Control D Sites on or Adjacent to Public Streets and Highways," a Director of Transportation, and the current U.S. Federal Administration "Manual on Uniform Traffic Control Devic Standards and Guides for Traffic Controls for Street a Construction, Maintenance, Utility and Incident Managemen
5.	Lane closures shall conform to the traffic control plans in these construction plans and must be approved by the to the issuance of the permit.
6.	No material and/or equipment shall be stockpiled or oth within the State's Highway Right-of-Way except at locati in writing and approved by the District Engineer.
7.	The Contractor shall exercise care to minimize damages highway improvements. All damages shall be repaired b Contractor, at his expense, to the satisfaction of the Di
8.	Approval of permit construction plans shall be valid for one (1) year from the date of notification of approval to In the event construction does not commence within this period, the applicant will be required to resubmit the co plans for the Division's review and reapproval.
9.	All regulatory, guide, and construction signs and barrica a high-intensity reflective background.
10.	The Contractor shall inform the State Highways' Permit (241-3000) at least two (2) days prior to closing any lan

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- existing ict Engineer.
- period of e applicant. ne-year truction
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- NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY, CON'T: 11. Driveways shall be kept open unless the owners of the properties using these Rights-of-Way are otherwise provided for satisfactory. 12. Where pedestrian walkways exist, they shall be maintained in a safe and passable condition, or other facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be approved. All walkways shall conform to ADA requirements. 13. The Contractor shall reference, to the satisfaction of the District Engineer, all existing traffic signs, posts and pavement markings prior to the commencement of construction. The contractor shall replace or repair all traffic signs, posts, and pavement markings disturbed by his activities, at his expense, unless directed otherwise by the District Engineer or his representative. 14. The Contractor shall exercise care when performing work in, on or adjacent to the State's Highway Right-of-Way. Damages to existing facilities shall be immediately reported to the respective utility companies, and/or County or State agencies. The repair work shall be done at the Contractor's expense. 15. The Contractor shall implement Best Management Practice (BMP) measures for all work within the State Highway. 16. The Contractor shall notify the State Highways' Maintenance Engineer (241-3000), three (3) working days prior to commencing work. 17. The permit to perform work upon State Highways may be revoked because of default in any of the following, but not limited to conditions: a. Work performed before or after permitted hours b. Failure to maintain roadway surfaces in a smooth and safe condition c. Failure to clean up construction debris generated from project work d. Failure to provide proper traffic control e. Failure to replace damaged pavement markings and signs 18. The Contractor shall notify the State Highways Permit Office (241-3000) at least two days prior to performing any trench restoration work. This work shall include any backfilling and compacting of trench material; any placing and compacting of base course material; and paving operations. Any trench restoration work performed by the Contractor that is not witnessed by a State representative will be required to be removed and restored with a State representative present. All restoration work will be done at the Contractor's expense. 19. The Contractor will make every effort to minimize the use and the duration of use of steel plates. All steel plates shall have a non-skid surface. The State may require the backfilling and patching of trenches due to the excessive usage of steel plates.
 - 20. After completion of the project, the Owner and/or Contractor, shall submit one complete set of "as-built" plans to the Highways Division.

- 4. The Contractor is to comply with the directions of the State of Hawaii Occupation Safety and Health Law (DOSH).

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PUBLIC HEALTH, SAFETY, AND CONVENIENCE NOTES:

The Contractor shall observe and comply with all Federal, State, and Local laws required for the protection of public health and safety and environmental quality.

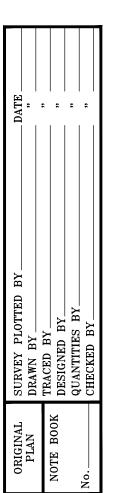
- 2. The Contractor, at his own expense, shall keep the project and its surrounding areas free from dust nuisance. The work shall be in conformance with the air pollution standards and regulations of the State Department of Health. The County may require supplementary measures as necessary.
- 3. The Contractor's attention is directed to Chapter 448, Public Health Regulations, Department of Health, State of Hawaii, "Community Noise Control for Oahu" in which maximum allowable noise levels have been set. If the construction activities for this project will exceed the allowable noise levels, the Contractor will be required to obtain a permit from the Director of the Department of Health. The Contractor shall obtain a copy of Chapter 448 and become familiar with the noise level restrictions and the procedures for obtaining a Permit for construction activities.

HISTORICAL PRESERVATION NOTES:

Should historic remains such as artifacts, burials, concentrations of shell or charcoal be encountered during construction activities, work shall cease immediately in the immediate vicinity of the find, and the find shall be protected from further damage. The Contractor shall cordon off the area and immediately notify the Planning Department at (808) 241-4050 and the State Historic Preservation Division at (808) 692-8015, which will assess the significance of the find and recommend the appropriate mitigation measures, if necessary. In addition, if human burial are found, the Contractor shall immediately notify the County of Kauai Police Department.

LICENSED PROFESSIONAL	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
C PROFESSIONAL ITT ENGINEER ★ No. 10377-C	<u>GENERAL NOTES</u>
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<u></u>	TES FOR PROTECTED SPECIES:
1.	HAWAIIAN SEABIRDS ° Hawaiian petrel or 'ua'u (Pterodroma sandwichensis) ° Newell's shearwater or 'a'o (Puffinus auricularis new ° Hawai'i distinct population segment (DPS) of band-ru petrel or 'akē'akē (Oceanodroma castro)
	Construction activity shall be restricted to daylight hours seabird peak fallout period (September 15-December 15) to use of nighttime lighting that could attract seabirds. The temporary night time work outside of the peak seabird fal shall be shielded to prevent upward radiation and directed any nearby beach habitats.
	All outdoor lights shall be shielded to prevent upward rad selection of acceptable seabird-friendly lights can be found the Kauaʻi Seabird Habitat Conservation website (2013).
2.	HAWAIIAN HOARY BAT OR 'OPE'APE'A (LASIURUS CINER
	SEMOTUS) Any fences that are erected as part of the project shall I barbless wire to prevent entanglements of the Hawaiian ho barbed wire.
	No trees taller than 15 feet (4.6 m) shall be trimmed or reresult of this project between June 1 and September 15, w bats that are not yet capable of flying may be roosting in trees.
3.	HAWAIIAN GOOSE OR NĒNĒ (BRANTA SANDVICENSIS) Do not approach, feed, or disturb the Hawaiian goose.
	A qualified biologist shall survey the area for nesting ner construction (in coordination with the waterbird surveys), any subsequent delay in work of 3 or more days (during w may attempt nesting). The results of the pre-construction would be submitted to the Engineer.
	If Hawaiian goose are loafing, foraging, or otherwise prese the project area during the breeding season, which extend September through April, have a trained biologist survey the near the project prior to work each day. Survey biologist familiar with the nesting behavior of the Hawaiian goose, identification, and identification of young.
	 Surveys should be repeated if there is a delay in w days or more (during which the birds may attempt t If nests or vulnerable young are observed within 150 the project work, immediately cease all work and con Service for further guidance.
	If during the biologist's survey, the Hawaiian geese are lo foraging, or otherwise present within the project area, the will be contacted for further guidance to consider impleme reduced speed limits when the work is near the active roa inform project personnel and contractors about the present threatened species on-site. Speed limits will be reduced of in active construction areas.



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loafing, e USFWS menting badway, and nce of this during work All regular on-site staff shall be trained to identify nene and shall know the appropriate steps to take if nene are present on-site. Training would not be necessary if a biological monitor is present for the duration of the construction.

4. HAWAIIAN WATERBIRDS

- ° Hawaiian stilt or ae'o (Himantopus mexicanus knudseni)
- ° Hawaiian coot or 'alae ke'o ke'o (Fulica americana alai)
- ° Hawaiian gallinule or 'alae 'ula (Gallinula galeata sandvicensis)
- ° Hawaiian duck or koloa (Anas wyvilliana)

In areas where vegetated streambanks would be disturbed, waterbird nest searches shall be conducted by a qualified biologist before any work is conducted and after any subsequent delay in work of 3 or more days (during which birds may attempt nesting). The results of the pre-construction survey shall be submitted to the Engineer.

If a waterbird nest with eggs or chicks/ducklings is discovered in the construction limits, work within 100 ft of nests or active broods would cease until the young have fledged and left the area.

Waterbird nests, chicks, or broods found before or during construction shall be reported to the USFWS within 48 hours of discovery for further guidance.

All regular on-site construction staff would be trained to identify waterbirds and take appropriate conservation measures when the waterbirds are present, including within equipment staging areas.

5. SEA TURTLES

- ° Hawksbill sea turtle or 'ea (Eretmochelys imbricata)
- ° Central North Pacific distinct population segment of the green sea turtle or honu (Chelonia mydas)

All regular on-site staff shall be trained to identify sea turtles and trained on appropriate steps to take if these species are present on-site.

Construction activities shall not take place if a sea turtle is within 150 feet (46 m) of the construction area. Construction can only begin after the animal voluntarily leaves the area. If a sea turtle is noticed after work has already begun, that work may continue only if, in the best judgment of the biological monitor, that there is no way for the activity to adversely affect the animal(s).

Any construction-related debris that may pose an entanglement threat to sea turtles shall be removed from the construction area at the end of each day and at the conclusion of the construction project.

Workers shall not attempt to feed, touch, ride, or otherwise intentionally interact with any listed species.

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To avoid and minimize project impacts to sea turtles from lighting, the project will minimize the use of lighting on or near beaches and shield project related lights, so the light is not visible from any beach. If lights cannot be fully shielded or if headlights must be used, the light source will be fully enclosed with light filtering tape or filters.

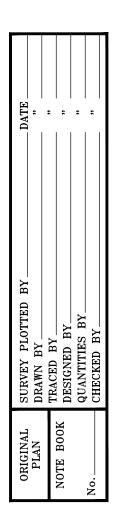
In-water work at night shall be avoided, unless emergency maintenance and repair of erosion and sediment controls are necessary to meet permit conditions.

6. NEWCOMB'S TREE SNAIL (ERINNA NEWCOMBI)

In the event that 'Ōhi'a is found in the project area where clearing will occur, a trained biologist will survey the area for tree snails using USFWS methodology described in "Interim Guidelines for Conducting Tree Snail Surveys in the Mariana Islands" (methods also apply throughout the Hawaiian Archipelago for other listed tree snail species).

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	SHEET No. N-4 OF 7 SI	HEETS
THIS WORK WAS PREPARED BY M OR UNDER MY SUPERVISION		July 2022
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G PROFESSIONAL 11 ★ ENGINEER ★ No. 10377-C	<u>GENERAL NOTES</u>	:
LICENSED PROFESSIONAL	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	

<u>N07</u>	TES FOR PROTECTED SPECIES (CON'T):
7.	WATER QUALITY BMPS, AS APPLICABLE Turbidity and siltation from project-related work shall be mi contained through the appropriate use of erosion control pra effective silt containment devices, and the curtailment of wor adverse weather and tidal/flow conditions.
	Erosion and sediment control measures shall be in place bef initiating earth-moving activities. Functionality shall be main throughout the construction period. For earth-moving activit to address imminent health and safety concerns, erosion and control measures shall be in place as soon as practicable.
	When it is not possible to avoid times of the year when high expected, enhancing the capacity of existing controls, adding control measures, or installing contngency measures shall be implemented.
	Inspection shall be documented, and records for all inspection repairs shall be maintained on-site. When a device proves in shall be immediately redesigned or replaced until it is effect
	Control measures (i.e., silt fences, sand bag barriers, sedime geotextile mats, and other measures intended for soil/sedime shall be inspected and repaired as needed within 24 hours a rainfall event of 0.25 inch or greater over a 24-hour period. periods of prolonged rainfall, a daily inspection shall occur, extended heavy rainfall makes access impossible or hazardou
	Construction shall be sequenced to minimize the exposure tin cleared surface area.
	The Contractor shall be required to prepare a spill prevention and countermeasure (SPCC) plan before beginning work or a practicable. The SPCC shall describe preventative measures the location of refueling and storage facilities and the hand hazardous material. The SPCC shall describe actions to be case of a spill. Hazardous materials shall be properly store managed in accordance with local, State, and Federal regula
	Appropriate materials to contain and clean potential spills sh stored at the work site and be readily available. Spill kits available on-site at locations where hazardous materials are kits shall be inspected regularly and supplies replaced as ne Staff shall be trained on spill prevention and cleanup.
	Absorbent pads shall be stored on-site to facilitate the clear petroleum spills. At fueling sites, containment booms and sk shall be stored, in addition to absorbent pads.
	Return flow or run-off from material stored at inland dewai storage sites shall be prevented.
	All project-related materials and equipment placed in the wa



free of pollutants.

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The project manager or heavy equipment operators shall perform daily pre-work equipment inspections for cleanliness and leaks. All heavy equipment operations shall be postponed or halted should a leak be detected, and they shall not proceed until the leak is repaired and the equipment is cleaned.

Fueling of land-based vehicles and equipment shall take place at least 50 feet (15.24 m) away from the water, preferably over an impervious surface. Fueling of vessels shall be done at approved fueling facilities.

Portable toilets for sanitary waste management shall be serviced regularly.

A plan shall be developed to prevent debris and other wastes from entering or remaining in the marine environment during the project.

No contamination (trash or debris disposal, invasive species introductions, attraction of non-native pests, etc.) of adjacent habitats (reef flats, channels, open ocean, stream channels, wetlands, beaches, forests, etc.) shall result from project-related activities.

Any soil exposed near water as part of the project shall be protected from erosion (with plastic sheeting, filter fabric etc.) after exposure and stabilized as soon as practicable (with native or non-invasive vegetation matting, hydroseeding, etc.).

All debris removed from the marine/aquatic environment shall be disposed of at an approved site. Solid waste and construction and demolition debris would be properly managed.

Clearing and grubbing would be held to the minimum necessary for grading, access, and equipment operation.

Revegetation success shall be monitored by Contractor to ensure sufficient vegetation cover has established. Relevant erosion and sediment control BMPs shall not be removed until sufficient vegetative cover is re-established or hillside stabilization measures (i.e., soil nails) are deemed sufficiently in place. If vegetation fails to establish, corrective actions shall be taken where necessary.

Do not stockpile or store project-related materials or equipment near the water (i.e., intertidal zones, reef flats, stream channels, etc.)

Soil stockpiles shall be located away at least 50 feet from concentrated runoff and water features, covered with plastic or other waterproof material when practicable, and surrounded by silt fences or other erosion control BMPs.

Concrete wash-outs shall be located 50 feet from storm drain inlets, open drainage areas, and waterbodies, and shall be maintained as needed.

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8. BMPS TO PREVENT THE INTRODUCTION AND SPREAD OF INVASIVE SPECIES

See Special Provision Section 621 - Invasive Species Management for additional requirements.

The area beyond the construction limits shall not be disturbed. Trees, shrubs or vegetated areas temporarily damaged by construction operations shall be re-vegetated.

Temporarily disturbed areas shall be revegetated with non-invasive plant species appropriate for the project area.

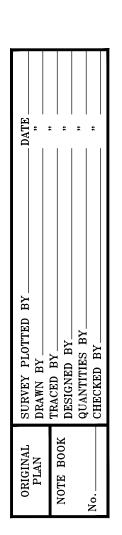
Invasive species controls shall be maintained to ensure that all materials transported from off-site are free of such species.

To avoid the unintentional introduction or transport of new terrestrial invasive species, all construction equipment and vehicles arriving from outside Kaua'i shall be washed and inspected before entering the project area. In addition, construction materials arriving from outside Kaua'i shall be washed and/or visually inspected (as appropriate) for excessive debris, plant materials, and invasive or harmful non-native species (plants, amphibians, reptiles, and insects). When possible, raw materials (gravel, rock, and soil) shall be purchased from a local supplier on Kaua'i to avoid introducing non-native species not present on the island. Inspection and cleaning activities shall be conducted at a designated location.

LICENSED PROFESSIONAL	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
Image: Constraint of the second s	<u>GENERAL NOTES</u>
SIGNATURE EXPIRATION DATE	<u>KUHIO HIGHWAY</u> <u>Hanalei Bridge Repair</u> FAP Proj. No. BR-0560(016)
OF THE LICENSE THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	Scale: None Date: July 2022
	SHEET NO. $N-5$ OF 7 SHEETS
	6

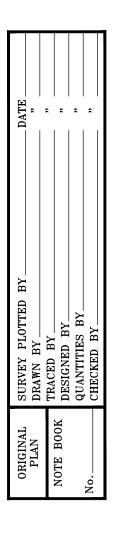
<u>UT.</u> 1.	<u>ILITY NOTES FOR KIUC</u> All work on utility facilities shall be done in strict accorda Specifications and Requirements of Kaui Island Utility Coop for the facilities within their jurisdiction.
2.	The Contractor shall closely coordinate all work with KIUC.
3.	These notes are not intended to be used in place of the Se Installation Manual, please refer to Service Installation Mar service issues.
4.	Contractor shall contact Kauai Island Utility Cooperative's (Supervisor, Ken Yamamoto, at 246-4343 prior to start of wo facilities and for scheduling site inspections.
5.	Contractor shall contact KIUC's Baseyard Supervisor, Ken Y 246-4343 for Design Approvals, Standard Detail drawings a addressed in these notes or drawings.
6.	All Contractors entering KIUC facilities must be approved b must have proper licensing and insurance coverage. Contac Baseyard Supervisor, Ken Yamamoto at 246-4343 for details
7.	All trenches and pullboxes must be inspected by KIUC prior and concrete-encasing operations. For detailed trenching a requirements refer to KIUC's Service Installation Manual.
8.	The Contractor shall provide a Poly-line 200 lb. test line or pulling wire in all 1", 2", 3" and 4" conduits. In 5" and 6" Contractor shall install Neptco WP1800 Muletape as a pulling
9.	All conduits, pullboxes, handholes, and manholes shall be cle from objectionable materials. Conduit ends shall be adequa until the Conductor is installed by the Electric Company. (Co Carlon Plug with Pull Tab Series P258 equivalent or better
10.	For all conduit other than services, refer to Conduit Sched
11.	For all services where the conductor is 1/0 or less, the di- KIUC's handhole and customer's meter is less than 125 feet crossing any driveways or roads the conduit shall be 2 inc PVC. For services greater than 125 feet, contact KIUC Pla verification and underground service requirements. Any de require KIUC written approval.
12.	Primary and secondary conduits for new line extensions sh 40 PVC. (Carlon P&C Duct Type DB equivalent or better) L and roadways, the conduits shall be encased in a minimum concrete jacket extending 12" outside the edge of pavement.
13.	Schedule 80 PVC conduit may be substituted for the concre- Schedule 40 PVC for service conduit only crossing under under under version and roadways from KIUC pole/handhole to Custo concrete driveway will be built over service conduit immedia conduit is installed, then Schedule 40 PVC may be used pro- meets with Rule No. 21.
14	All primary and secondary conduits which are crossing Sta

14. All primary and secondary conduits which are crossing Sta roadways shall be Schedule 40 PVC encased in a minimum jacket, which shall extend a minimum of 12 inches outside pavement.



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		HAWAII	STATE HAW.	PROJ. NO. BR-0560(016)	YEAR	SHEET NO. 7	IOTAL SHEETS 34	
ordance with the Cooperative (KIUC)	15. Electrical supply ducts, when installed near communication cables, shall be separated from communication duct systems and buried communication cables or conductors by not less than 3 inches of concrete or 12 inches of earth when paralleling or crossing.		<u> </u>	DI UUUUU		<u>'</u> _L		
IUC. e Service Manual for all	16. Chairs shall be installed and spaced at a maximum of 5 feet separation when concrete encasing conduits.							
Manual for all	17. All conduits shall enter boxes at 90 degree angle, perpendicular and flush to the wall with bell ends to prevent cable damage.							
e's (KIUC) Baseyard f work on KIUC	18. 90 degree conduit bends shall be factory made with a minimum radius of 3 feet in trench runs.							
Ken Yamamoto at	19. Conduit bends exceeding 90 degrees will not be accepted.)	
ngs and any items not ved by KIUC and	20. A 36 inch minimum horizontal clearance shall be maintained when running KIUC conduits parallel to water and sewer lines. If clearance is less than 36 inches, KIUC conduit shall be concrete encased.							
ontact KIUC etails. prior to backfilling ng and backfilling al.	21. No foreign pullboxes, handholes, manholes, concrete slabs/boxes, structures, etc. are to be installed over KIUC facilities with the exception of HTCO, CATV or waterline conduit crossings. Such crossing must be approved by KIUC's Service Assurance Department and KIUC conduit to be concrete encased. Concrete encasement must be minimum of 3 inch encasement and extend a minimum of 1 foot beyond crossing conduit or pipe.							
he or equivalent as a d 6" conduits, the fulling line. he cleaned and free	22. Yellow marker tape to be placed 1 foot above electrical conduits in the trench during backfilling. (E-Z Code WBT 6 inch wide 4 mill Polyethylene Protect-A-Line Warning Tape NA-0708 "Electric Line" in yellow, equivalent or better)							
lequately covered y. (Cover's shall be petter)	23. Unless otherwise noted, the top of all conduits shall be at a depth of 24 inches.							
chedule on drawings. The distance from feet, and not	24. All handholes, pullboxes, and manholes shall be Walker Industries Type or approved equal. Contact KIUC prior to ordering underground boxes for vendor approval. Customer to submit Manufacturer's Shop Drawings if substituting from Walker Industries Type.							
<i>2 inch Schedule 40 2 Planner for field y deviations will</i>	25. Typically, the top of all electrical utility boxes shall be 1 inch above finish grade, single phase transformer pads shall be 2 inches above finish grade, and three phase transformer pads shall be 4 inches above finish grade unless otherwise noted. (special conditions may apply to sidewalks,							
ns shall be schedule r) Under driveways mum of 3 inch ment.	roadways, etc. see specific location notation) 26. At no time shall cement mortar, wood or any other material be used between pre-cast sections of KIUC pullboxes, handholes, or manholes. The permanent installation of wooden wedges to level or raise the pre-cast							
oncrete encased ler unpaved Private Sustomer's meter. If mediately after d provided that it	sections shall not be permitted. 27. A minimum of 6 inches of #3 Crushed Rock Backfill shall be placed loosely beneath the bottom section of handholes and pullboxes. Crushed rock or other foreign materials are not to be placed inside handholes and pullboxes.	2		STATE OF HAWA PARTMENT OF TRAN HIGHWAYS DIVIS	NSPORTATION ISION			
State or County mum 3 inch concrete ide of the edge of	* ENGINEER No. 10377-C HAWAII, U.S.F. Gund Anna	ation date He license BY ME	Ha FAP	<u>TILITY N</u> <u>KUHIO HIG</u> analei Bridge Proj. No. Bl	GHWAY ne Repair 12R-0560(1	<u> </u>	2022	
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<u>UT</u>	ILITY NOTES FOR HAWAIIAN TELCOM
1.	All work on utility facilities shall be in strict accordance w specifications and requirements of Hawaiian Telcom for the their jurisdiction.
2.	The Contractor shall closely coordinate all work with Hawai Contractor shall notify Hawaiian Telcom's Jimmy Sone at 80 Duke Sardinha at 808-371-2962, or their designated Represe four weeks in advance of any work involving the Hawaiian T
3.	Unless otherwise indicated, all conduits, sweeps, couplings, a bell ends shall be Schedule 40 PVC if direct buried. If co conduits may be GT42 2" or 4" PVC meeting GTE Specificat Two inch bends are available with a 24" or 36" radius. Fo are available with a 36" or 48" radius. Refer to HTCO Sta 34028 for installation.
4.	All conduits shall be cleaned and be free from objectionable its ends adequately covered until Hawaiian Telcom installs f facilities.
5.	Contractor shall maintain 6" minimum separation between wa direct buried utility ducts at intersection of water pipe and utility ducts. When utility ducts are concrete encased at in water pipe and utility ducts, a 3" minimum separation betwee and concrete encasement shall be maintained. Stones, Rocks be used with backfill material, only select materials shall be backfill material.
6.	A 4" wide warning tape orange in color with a black imprin "Warning - Stop Digging - Call Hawaiian Telcom, Communicat Buried Below, Failure to Comply Could Result in Legal Action placed 12" below the surface over the duct or concrete jack entire length of duct installations. See HTCO Standard Dra Recommended tape is manufactured by Thor Enterprises, In WI 53590 (1-800-827-8467) Part Numbers DTOGTE-41 (1000') (6000'). Equivalent tapes are acceptable.
7.	After the ducts are installed a mandrel not less than 12" to diameter of 1/4" less than the inside diameter of the duct, through each duct after which a brush with stiff bristles through to make certain that no particles of earth, sand or been left in the line. Main duct runs except riser ducts an pedestal ducts should be constructed with long smooth ridin Offsets and elevation changes shall be constructed with not foot radius Telcom Inspector. Approved duct runs with less radius shall utilize a flexible mandrel followed by a stiff b flexible mandrel having a diameter of 1/4" less than the ins will be utilized on 2" duct runs after which a brush with s shall be pulled through.



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adapters and oncrete encased, tion GTS-8342. our inch bends andard Drawing

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ater pipe and d direct buried ntersections of een water pipe s, etc. shall not be used as a

nted message ations Cable on" shall be ket for the rawing 34028. nc. Sun Prairie, and DTOGTE-46

long and having a shall be pulled shall be pulled gravel have nd cross-connect ng sweeps. t less than 20 ss than 20 foot bristle brush. A nside diameter stiff bristles

8. Install Neptco WP1800P Muletape in all new ducts after testing. The UTILITY NOTES FOR SANDWICH ISLES COMMUNICATIONS Neptco Muletape is available in 3,000', 6,500' and 10,000' reels. The Neptco Muletape is prelubricated and printed with sequential footage 1. The Contractor shall take necessary precaution not to damage existing marking. Using the Neptco Muletape, The Contractor shall measure at cables. Any work involving existing cables shall be done in the presence of least one duct of a common duct run. The distance shall be marked on SIC's Inspector or his representative. the record prints and submitted to the Hawaiian Telcom Inspector for record keeping. 2. The Contractor shall notify SIC's project manager, Lily Duran at

All conduits shall enter boxes at a 90 degree angle and be flush to the wall with flared or junior end bells to prevent cable damage. 10.

The Contractor shall furnish and install a No. 4 bare copper ground wire (direct buried) from all transformer pad ground rods to the nearest Hawaiian Telcom pullbox, as specified in HTCO Standard Drawing 34045. Install one 5/8" x 8' ground rod in all other Hawaiian Telcom 435T, 435TB6 and 4' x 6' Type 1 boxes, except in the Type 436T meter boxes (12" x 20"). Ground rods are to extend 4" above the finished pullbox/handhole floor (grade) and be located 4" from the pullbox corner.

UTILITY NOTES FOR SPECTRUM

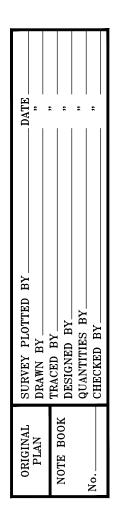
- 1. The Contractor shall take necessary precaution not to damage existing cables. Any work involving existing cables shall be done in the presence of Spectrum's Inspector or his representative.
- 2. Any work required to relocate CATV facilities shall be done by Spectrum and the Contractor shall be responsible for all coordination requirements and associated costs.
- 3. Any damage to Spectrum's facilities shall be reported to Spectrum's Repair Dispatch Department at 625-8437 or 625-8666.
- 4. All Construction must be inspected and approved by Spectrum prior to the installation of any of its facilities and the energizing of its system.
- 5. Contractor and/or Customer shall provide Spectrum with sufficient installation time in their occupancy time table.

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808-284-3683 or 808-540-5772, or their designated representative, at least four weeks in advance of any work involving the SIC facilities.

LICENSED PROFESSIONAL		STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
O PROFESSIONAL Γ1 ENGINEER ★ No. 10377-C		UTILITY NOTES
SIGNATURE EXPIRATION DATE		<u>KUHIO HIGHWAY</u> <u>Hanalei Bridge Repair</u> FAP Proj. No. BR-0560(016)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	Scale:	None Date: July 2022
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<u>TES:</u>

ion Control. Section 209 ling of a water pollution requirements; method lists potential pollutant

Management Practices Management Practices en the Manual and vern. Should a requirement he Contractor shall notify of clarification under lans, standard er Pollution Prevention

Relating to Soil Erosion Guidelines for projects on

) for non-compliance of 209 and special num limit on the amount

for all citations received reimburse the State for the full

ding the installation of any ave a tolerance of at least 0.05 an area that will not deter ocation where rain water stable and plumbed. Do not ific best management practices

completed Site-Specific BMP he Site-Specific BMP Review

al dumpster or roll off windy conditions. The dumpster ons. Deposit all trash and dumpster weekly or when the construction waste materials ted regarding the correct procedure office trailer, on a weatherproof ngineer. The Contractor shall be bmit the Solid Waste Disclosure r days of date of award. Provide by the Department of Health to include documentation from any

by local or State regulations and instructed in these practices and

3. Sanitary Waste

Collect all sanitary waste from the portable units a minimum of once per week, or as required. Position sanitary facilities where they are secure and will not be tipped over or knocked down.

- C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:
- 1. For projects with an NPDES Permit for Construction Activities, inspect at the following intervals. For construction areas discharging to nutrient or sediment impaired waters, inspect all control measures at least once each week and within 24 hours of any rainfall event of 0.25 inches or greater within a 24 hour period. For construction areas discharging to waters not impaired for nutrient or sediments, inspect all control measures weekly. Inspections are only required during the project's normal working hours. The discharge point water classification may be found in the SWPPP.
- 2. For projects without an NPDES Permit for Construction Activities, inspect all control measures weekly.
- 3. Maintain all erosion and sediment control measures in good working order. If repair is necessary, initiate repair immediately and complete by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. When installation of a new erosion or sediment control or a significant repair is needed, install the new or modified control or complete the repair no later than 7 calendar days from the time of discovery. "Immediately" means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in which it is too late to initiate repair, initiation of repair shall begin on the following work day.
- 4. Remove built-up sediment from silt fence when it has reached one-third the height of the fence. Remove sediment from other perimeter sediment control devices when it has reached one-half the height of the device.
- 5. Inspect silt screen or fence for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground. Inspect and verify the bottom of the silt screen is buried a minimum of 6 inches below the existing ground.
- 6. Inspect temporary and permanent seeding and planting for bare spots, washouts and healthy growth.
- 7. Complete and submit to the Engineer a maintenance inspection report within 24 hours after each inspection.

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- 8. Provide a stabilized construction entrance at all points of exit onto paved roads to reduce vehicle tracking of sediments. Include stabilized construction entrance in the Water Pollution, Dust, and Erosion Control submittals. Minimum length should be 50 feet. Minimum width should be 30 feet. Minimum depth should be 12 inches or as recommended by the soils engineer and underlain with geo-textile fabric. If minimum dimensions cannot be met, provide other stabilization techniques that remove sediment prior to exit. Clean the paved street adjacent to the site entrance daily or as required to remove any excess mud, cold-planed materials, dirt or rock tracked from the site. Do not hose down the street without containing or vacuuming wash water. Cover dump trucks hauling material from the construction site with a tarpaulin. Remove sediment tracked onto the street, sidewalk, or other paved area by the end of the day in which the track-out occurs.
- 9. Include designated Concrete Washout Area(s) in the Water Pollution, Dust, and Erosion Control submittals.
- 10. Submit the name of a specific individual designated responsible for inspections, maintenance and repair activities and filling out the inspection and maintenance report.
- 11. Personnel selected for the inspection and maintenance responsibilities shall receive training from the Contractor. They shall be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

LICENSED PROFESSIONAL	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION				
LICENSED PROFESSIONAL ENGINEER No. 10377−C	WATER POLLUTION & EROSION CONTROL NOTES				
AMAIL, U.S.P.	KUHIO HIGHWAY				
SIGNATURE EXPIRATION DATE	<u>Hanalei Bridge Repair</u> FAP Proj. No. BR-0560(016)				
OF THE LICENSE THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	Scale: None Date: July 2022				
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	<u>WATE</u>	<u>ER POLLUTI</u>	ON AND	EROSIO	N CONTROL	<u>N(</u>
	12.	Contain, remove accordance wit system or Stat	h approved			
	13.	For projects w stabilizing expe- where earth-di- activities have construction si disturbing acti- disturbing acti- any area of the land will be id- resume in the nutrients sedin temporary or p discharging int within 7 calend activities. Class	osed soil a sturbing ac permanent te that will vities have site that future. For future. For future. For for nutrient for nutrient far days at	reas upon c stivities have y ceased wh not include temporarily will not inc eriod of 14 construction fer initial s essation of or sediment fter the tem	completion of ea e permanently of hen clearing an ceased when of clude permanent or more calend on areas discha stabilization with earth-disturbin f impaired wate porary or perm	arth- or te od ex ructu clear thin ar c argin argin argin argin anen
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	D.	GOOD HOUSEKE	EEPING BE	EST MANAGE	EMENT PRACT.	ICES
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		only enough pl c. Store all mate	naterials an roduct as n erials store d if possib s in their of ubstances w sible, use a acturer's r	nd substance is required ed onsite in le under a n original com with one and a product up ecommendat	es to storm wa to do the job. a neat, orderly roof or other e tainers with the other unless re o completely ben ions for proper	ter / ma nclo e or comi fore
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cutting of pavement in discharge into the drainage

Activities, immediately initiate -disturbing activities for areas emporarily ceased. Earth-disturbing xcavation within any area of the ures has been completed. Earthring, grading, and excavation within ructures will not resume (i.e., the days, but such activities will ng into waters not impaired for 14 calendar days after the ctivities. For construction areas complete initial stabilization nt cessation of earth-disturbing t may be found in the SWPPP.

on Activities, complete initial ry or permanent cessation of

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xpected to be present onsite not listed below shall be added

sticides

of spills or other accidental runoff. Make an effort to store

anner in their appropriate sure. riginal manufacturer's label. mended by the manufacturer. disposing of the container. se and disposal. disposal of materials onsite.

not resealable. formerly Material Safety Data

ers' instructions and local and

ed onsite:

lar preventive maintenance to ts in tightly sealed containers which site according to the manufacturer's

b. Fertilizers:

Apply fertilizers used only in the minimum amounts recommended by the manufacturer and federal, state, and local requirements. Avoid applying just before a heavy rain event. Apply at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth. Once applied, work fertilizer into the soil to limit exposure to storm water. Do not apply to storm conveyance channels with flowing water. Storage shall be in a covered shed or in an area where fertilizer will not come into contact with precipitation or stormwater. Transfer the contents of any partially used bags of fertilizer to a sealable plastic bin to avoid spills.

c. Paints:

Seal and store all containers when not required for use. Do not discharge excess paint to the drainage system, sanitary sewer system, or State waters. Dispose properly according to manufacturers' instructions and State and local regulations.

d. Concrete Trucks:

Washout or discharge concrete truck drum wash water only at a designated site as far as practicable from storm drain inlets or State waters. Do not discharge water in the drainage system or State waters. Disposal by percolation is prohibited. Clean disposal site as required or as requested by the Engineer.

4. Spill Control Plan

a. Post a spill prevention plan to include measures to prevent and clean up each spill. b. The Contractor shall be the spill prevention and cleanup coordinator. Designate at least three site personnel who shall receive spill prevention and cleanup training. These individuals shall each become responsible for a particular phase of prevention and cleanup. Post the names of responsible spill personnel in the material storage area on a weatherproof bulletin board or other accessible location acceptable to the Engineer and in the office trailer onsite.

- c. Clearly post manufacturers' recommended methods for spill cleanup. Make site personnel aware of the procedures and the location of the information and cleanup supplies.
- d. Keep ample materials and equipment necessary for spill cleanup in the material storage area onsite.
- e. Clean up all spills immediately after discovery.
- f. Keep the spill area well ventilated. Personnel shall wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- g. Report spills of toxic hazardous material to the appropriate State or local government agency, regardless of the size. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, the Contractor shall notify the Engineer as soon as the Contractor has knowledge of the discharge. The Engineer will notify the National Response Center (NRC) at (800) 424-8802, the Clean Water Branch during regular business hours at 586-4309, and the Hawaii State Hospital Operator at 247-2191 and the Clean Water Branch (DOH-CWB) via email at <u>cleanwaterbranch@doh.hawaii.gov</u> during non-business hours immediately. The Contractor shall also provide to the Engineer, within 7 calendar days of knowledge of the release, a description of the release, the circumstances leading to the release, and the date of the release. The Engineer will provide this information to the DOH-CWB. The Engineer will provide information to the NRC if requested.

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HAWAII	HAW.	BR-0560(016)	2022	10	34

LICENSED PROFESSIONAL	STATE OF HAWA DEPARTMENT OF TRANS HIGHWAYS DIVIS	SPORTATION		
CO PROFESSIONAL MO ENGINEER No. 10377−C	WATER POLLUTION & EROSI	ION CONTROL NOTES		
HANDING VISIT	KUHIO HIGHWAY			
Gun Anna 4/30/24 SIGNATURE EXPIRATION DATE	<u>Hanalei Bridge Repair</u> FAP Proj. No. BR-0560(016)			
OF THE LICENSE THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	Scale: None	Date: July 2022		
	SHEET No. <i>EC-2</i> OF	5 SHEETS		
		10		

WATER POLLUTION AND EROSION CONTROL NOTES (Cont.):

E. PERMIT REQUIREMENTS:

1. The calculated land disturbance area for this project based on the construction plans is 0.50 acres not including Contractor Staging and Storage areas. If the total of the disturbed area and the Contractor Staging and Storage area is one acre or greater, the Contractor shall obtain the NPDES Construction Activities Permit using HDOT's latest SWPPP template. See Hawaii Administrative Rules Chapter 11-55, Appendix C for the definition of land disturbance. The Contractor shall be responsible for obtaining the required NPDES Construction Activities Permit and complying with the requirements of HAR 11-55 including, but not limited to:

a. Deadlines for initiating and completing initial stabilization b. Increased inspection frequency and installation of rain gage if applicable

- c. Deadlines to initiate and complete repairs to BMPs
- d. Reporting requirements and corrective action reports

2. Comply with all applicable State and Federal Permit conditions.

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F. SITE-SPECIFIC BMP REQUIREMENTS:

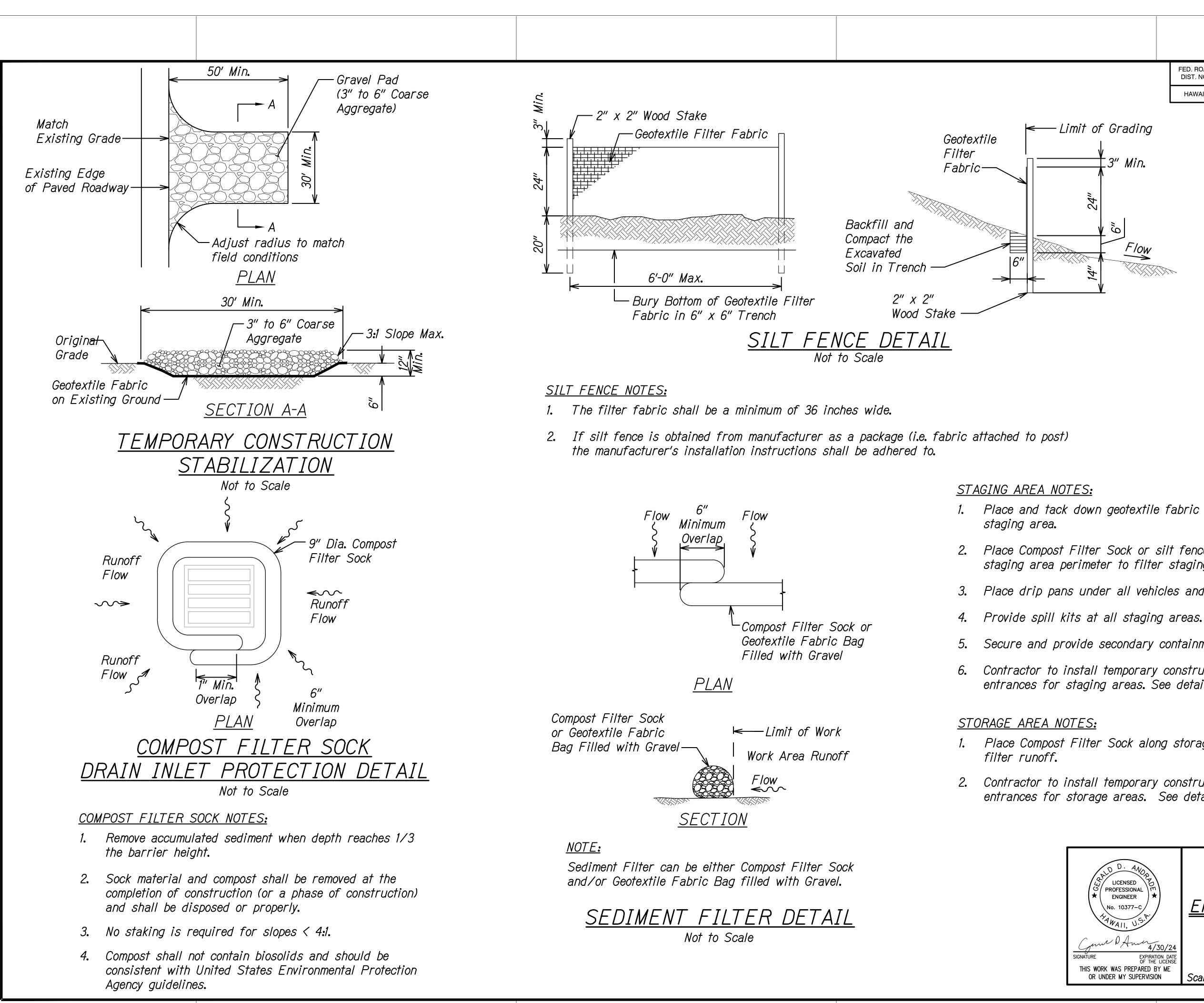
Each BMP below is referenced to the corresponding Practices Field Manual and appropriate Supplementa Statewide Stormwater Management Program Website and-consultants/ under Construction Best Management http://www.stormwaterhawaii.com/resources/contrac under Concrete Curing and Irrigation Water.

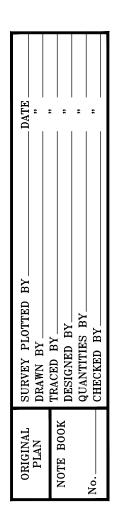
The requirements for Water Pollution, Dust, and Ere the Hawaii Standard Specifications for Road and E Provisions. A list of pollutant sources and correspo in Section 209 of the Special Provisions under App

Follow the requirements below:

- 1. Protect all Drainage Inlets receiving runoff from
- 2. Contain on-site runoff using Perimeter Sediment a. SC-7 Silt Fence or Filter Fabric Fence
 - b. SC-2 Vegetated Filter Strips and Buffers
 - c. SC-6 Compost Filter Berm/Sock
 - d. SC-8 Sandbag Barrier
 - e. SC-9 Brush or Rock Filter
- 3. Control offsite runoff from entering construction a. EC-3 Run-On Diversion
 - b. EC-6 Earth Dike, Swales, and Ditches
- 4. Incorporate applicable Site Management BMP a. SM-1 Employee Training
 - b. SM-2 Material Storage and Handling
 - c. SM-3 Stockpile Management
 - d. SM-6 Solid Waste Management
 - e. SM-7 Sanitary Waste Management
 - f. SM-9 Hazardous Materials and Waste Manag
 - g. SM-10 Spill Prevention and Control
 - h. SM-11 Vehicle and Equipment Cleaning
 - i. SM-12 Vehicle and Equipment Maintenance
 - i. SM-13 Vehicle and Equipment Refueling
 - k. SM-14 Scheduling
 - I. SM-15 Location of Potential Sources of Sedi
 - m. SM-16 Staging Area
 - n. SM-17 Preservation of Existing Vegetation
 - o. SM-19 Dust Control
- 5. Contain pollutants within the Construction Stagin Controls and Site Management BMP. Include a S which exit onto a paved street. Restrict vehicle
- 6. Manage Concrete Waste including installing a Co Curing Water (California Stormwater BMP Handb
- 7. Remove saw cut slurry and hydrodemolition water and/or perimeter sediment controls during saw

	FED. ROAD DIST. NO.	STATE		FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	proj. no. <i>BR-0560(016)</i>	2022	11 NO.	34
g section of the current HDOT Consti al Sheets. The Manual may be obtaine at http://www.stormwaterhawaii.com ent Practices Field Manual. Suppleme ctors-and-consultants/storm-water-poi	ed from th Aresource Intal BMP	e HDC s/coni sheets)T tractors- s are located			
osion Control submittals are included Bridge Construction dated 2005 and a onding BMP used to mitigate the pollu pendix A.	applicable .	Specia	/			
m disturbed areas (SC-1).						
t Controls						
n area						
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ng/Storage Area BMP with applicable Stabilized Construction Entrance/Exi access to these points.						
oncrete Washout Area (SM-4) and prop book NS-12 Concrete Curing).	perly dispo	osing a	of Concrete			
er from the site by vacuuming. Prov cutting and hydrodemolition work.	ide storm	drain	protection			
- •						
		DF	STATE OF HAWA		N	
LICENSED CO PROFESSIONAL K ENGINEER	WATER		HIGHWAYS DIVISI	ON		NTES
No. 10377-C			KUHIO HIGI			
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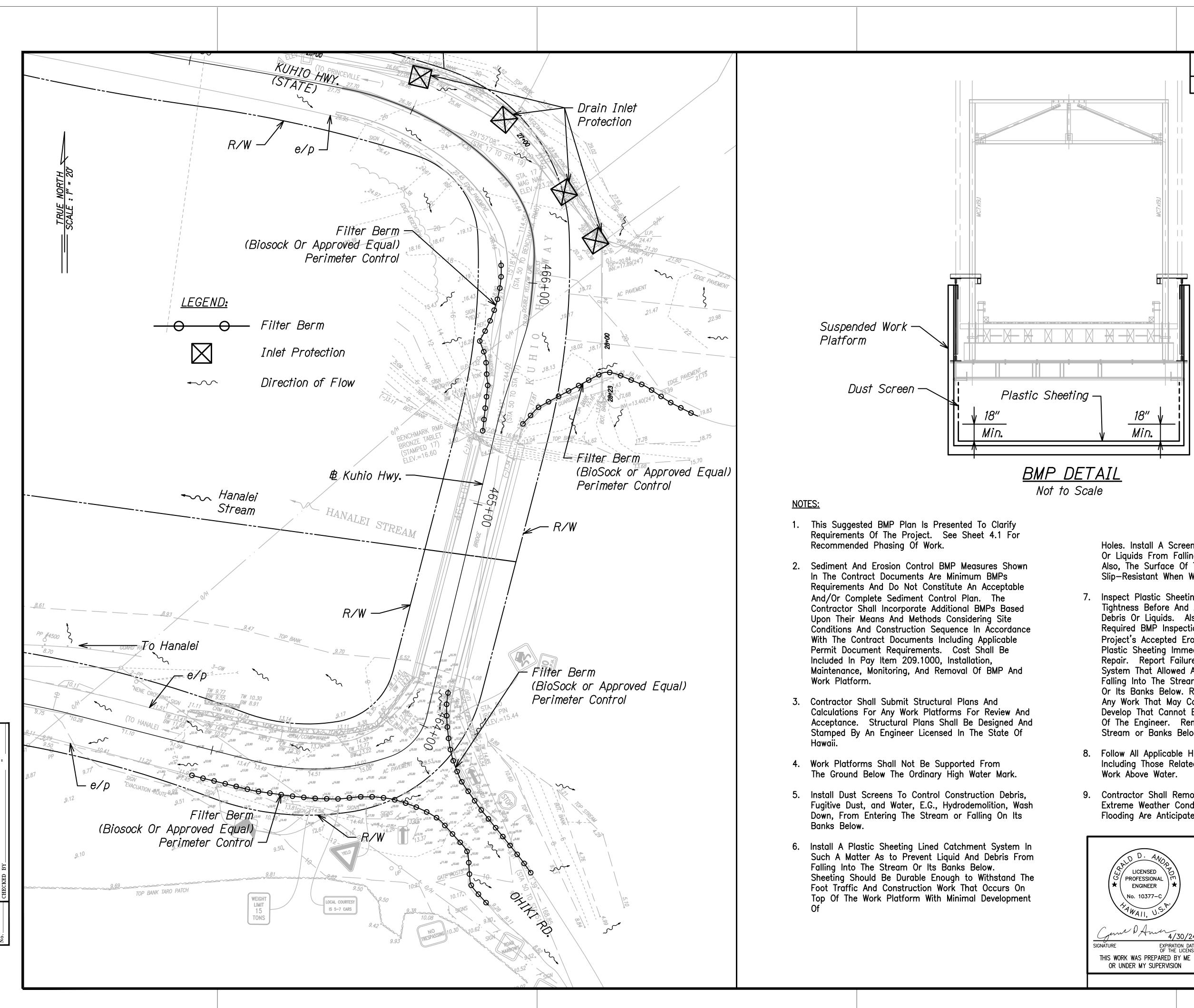


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0560(016)	2022	12	34

- Place and tack down geotextile fabric over sheet plastic at
- Place Compost Filter Sock or silt fence along low end of staging area perimeter to filter staging area runoff.
- Place drip pans under all vehicles and equipment.
- 5. Secure and provide secondary containment for portable toilets.
- Contractor to install temporary construction stabilization entrances for staging areas. See details on this Sheet.

- 1. Place Compost Filter Sock along storage area perimeter to
- 2. Contractor to install temporary construction stabilization entrances for storage areas. See details on this Sheet.

LICENSED	DEPARTMENT OF	OF HAWAI'I TRANSPORTATION YS DIVISION			
PROFESSIONAL T	WATER POLLUTION ∉				
★ ENGINEER ★ No. 10377-C	EROSION CONTROL DETAILS				
ANAII, U.S.P.	<u>KUHIO HIGHWAY</u>				
Curr P Anna 4/30/24	<u>Hanalei Bridge Repair</u>				
SIGNATURE EXPIRATION DATE OF THE LICENSE	<u>FAP Proj. No</u>	<u>). BR-0560(016)</u>			
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	Scale: None	Date: July 2022			
	SHEET No. EC-4	OF 5 SHEETS			
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FEDERAL AID PROJ. NO.

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SHEETS

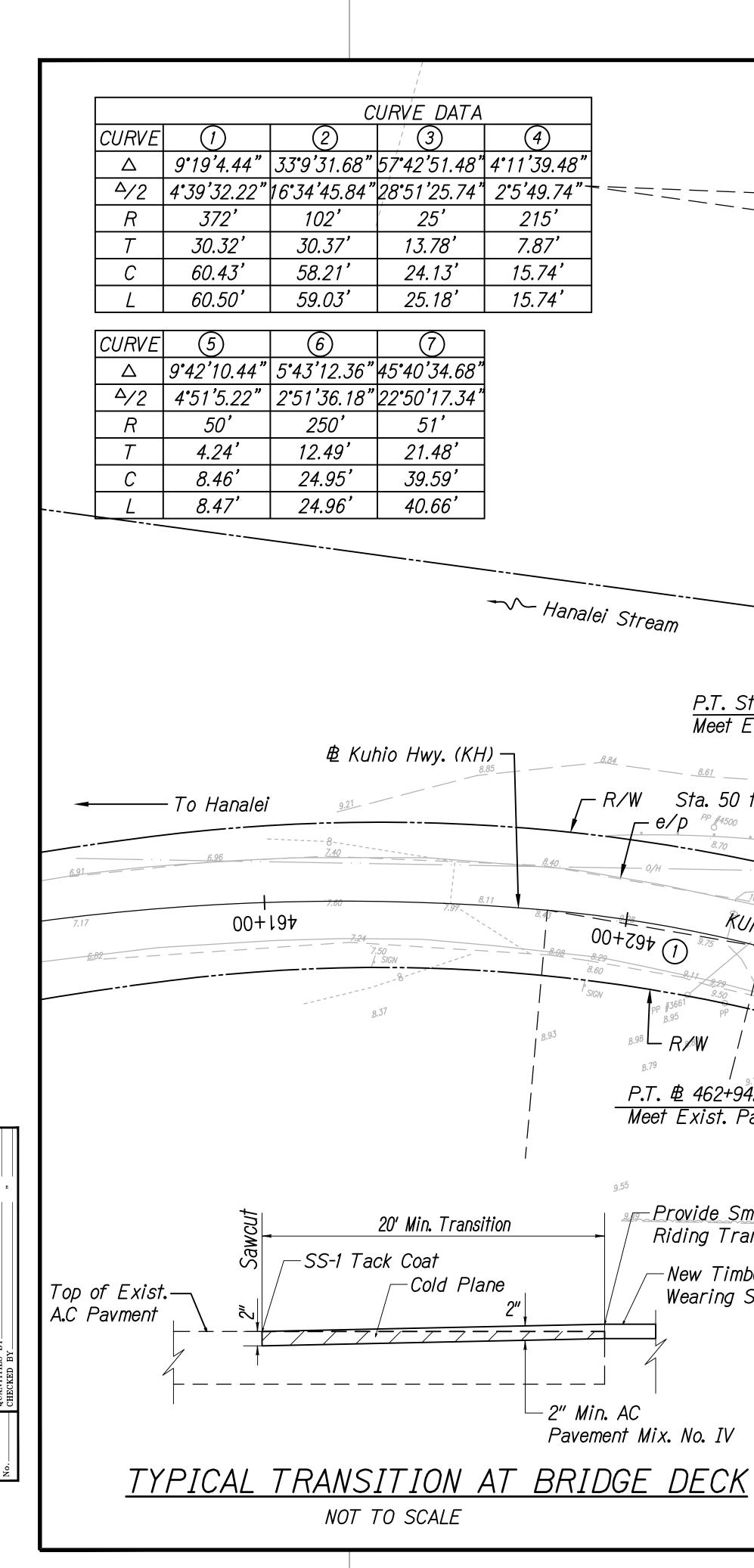
Holes. Install A Screen To Prevent Any Flying Debris Or Liquids From Falling Into The Stream Below. Also, The Surface Of The Working Area Shall Be Slip-Resistant When Wet.

FED. ROAD DIST. NO.

STATE

- 7. Inspect Plastic Sheeting For Damage And Water Tightness Before And After Any Work That May Cause Debris Or Liquids. Also Regularly, During The Required BMP Inspections In Accordance With The Project's Accepted Erosion Control Plan. Repair Plastic Sheeting Immediately Stopping Work To Repair. Report Failure Of The Catchment Or Screen System That Allowed Any Liquid And Debris From Falling Into The Stream Or Its Banks Below. Replace Plastic Sheeting Before Any Work That May Cause Debris or Liquids If Holes Develop That Cannot Be Repaired To The Satisfaction Of The Engineer. Remove Any Debris From The Stream or Banks Below.
- 8. Follow All Applicable HIOSH And OSHA Regulations, Including Those Related To Enclosed Spaces And
- 9. Contractor Shall Remove Temporary Platform When Extreme Weather Conditions That May Result In Flooding Are Anticipated.

LICENSED PROFESSIONAL	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION				
LICENSED PROFESSIONAL ENGINEER No. 10377−C	<u>EROSION CONTROL PLAN</u>				
TAMAII, U.S.P.	<u>KUHIO HIGHWAY</u>				
SIGNATURE EXPIRATION DATE OF THE LICENSE	<u>Hanalei Bridge</u> FAP Proj. No. BR-				
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	Scale: As Shown	Date: July 2022			
	SHEET No. EC-5 OF	5 SHEETS			
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— To Princeville e/p -6 466 00 Sta. 465+55.94, o/s 7.16' Lt. Meet Exist. Pavement Markings R=180' <u>P.C. Sta. 465+31.75</u> 0/s 4.85' Lt. 10°50'2", 150.56' (STAMPED 17) '4 Sta. 465+00 Sta. 17 to 🕏 KH Sta. 465+00 465+00 18 P.C. Sta. 463+39.42 St 0/s 11.1' Lt. R/Sta. 464+17.82 P.T. Sta. 463+33.2, o/s 11.62' Lt. <u>o/s</u> 7.17' Lt. -18 Meet Exist. Pavement Markings St 82°27′51.10″, 109.31′ — P.C.C. Sta. <u>463+88.92</u> Sta. 464 — R/W Sta. 50 to 🕏 KH Sta. 463+00 0/s 14.62' Lt. 0/s 6.4 <u>— e/р ^{PP} #4500</u> P.T. Si 0/s 6. R=60.9' RUHTO HWY. (STATET) 11468 -20' M See [R=45' · IRON PIN FLEV.=15.44 _ R=60' Sta. 463+92 [∟] R∕W 14.51 Meet Exist. P.T. # 462+94.31, o/s 12.9' Lt. Meet Exist. Pavement Markings R=110' -R=554-14.20 Limits Of Paving Provide Smooth Ridi P.C. Sta. 463+22.54 o/s 12.94' Rt. 9.10 337°11'39.31" Sta. 50 to -Provide Smooth <u>/P.C.C. Sta. 463+58.76</u> TOP BANK TARO PATCH Riding Transition 0/s 13.49' Rt. -New Timber 2 x 12 Sta. 463+83.45, o/s 30.42' Rt. Wearing Surface Sta. 51 Meet Exist. Pavement Markings SHADE TO BE TH STORE TO BOUT STORE

		FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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Sta. 465+53.8	<u> </u>						TRUE A SCALE :
0/\$ 10.76' Rt.							
.18.02 .18.17							
12.73 18.32 19.60 EDGE PA	EMENT 21.15						
TRAIL \$1,5 7,13.62 17.68 (24") 19.99							
	ement Transition A n This Sheet	AT Bridge	e Deck				
ANK							
<u>P.T. Sta. 465+3</u> 1.32 -							
0/s 10.58' Rt.							
8°34'43.14", 244.02' 'a. 51 to Sta. 17							
Ŵ							
4°57'22.94", 93.77' ta. 50 to ฿ KH Sta. 4	65+00						
<u>4+17.91</u> 8' Rt.							
<u>Sta. 464+14.21</u> .84' Rt.							
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Detail On This Sheet		v					
P.C. Sta. 463+93.92							
/s 21.96' Lt.							
2.94, o/s 25.43' Lt.							
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ing Transition							
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D=	AWAII, U.S.F.		•	KUHIO HIGH		'r	
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STA. 51 MAG NAIL W/ SHINER ELEV.=8.78	OF THE LICENS THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	Scale:	As Sh	οωνη	Date	e: July	2022
ELEVU.		1	SHEE		1	SHEETS	
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1.	All sign panels shall conform to Section 630, 631 and 6
	standard plans, and the latest editions and amendments publications: a. "Manual on Uniform Traffic Control Devices for
	b. "Standard Highway Signs"
	c. "Standard Alphabets for Highway Signs"
2.	The Contractor shall backfill all holes, depressions and existing signs with embankment material and grass all
3.	Layout of pavement markings and striping shall be don by the Engineer prior to any installation work.
4.	Existing pavement markings not incorporated in the fin removed as directed by the Engineer. The costs shall pavement marking items.
5.	Final locations of all signs shall be approved by the E work.
6.	Existing signs, object markers and reflector markers in remain as posted unless otherwise directed by the Eng existing signs and/or posts as designated on these play various signing items.
7.	All pavement striping shall be as noted on the legend of
8.	All preformed pavement marking tapes over existing pa approved primer as recommended by the tape's manuface Engineer. The primer shall be allowed to dry to the tap application.
9.	The Contractor shall erect advanced construction warning the end of the project site. Construction warning sig the plans or as directed by the Engineer. The signs a duration of the project and shall be maintained by the placed in addition to the required traffic control signs Zone Traffic Control. The advanced construction warn become the property of the State. The Contractor shall signs and posts to the Kauai District Baseyard or as project.
10.	Existing signs that are to be replaced shall not be rep as replacements, or the messages are no longer necess
11.	Backing for all new regulatory and warning signs shall
12.	Removal of existing signs, delineators and posts, as di shown on the plans, shall be considered incidental to t
13.	Contractor shall replace all Reflector Markers shown o
14.	All pavement striping, legends and symbols shall be ret compound pavement markings.
15.	Location of pavement markers is shown schematically. relation to stripe, see Standard Plans TE-26, TE-27 &
16.	The Contractor shall remove all RM-2 Markers along the pavement area which conflict with the proposed constru
17	All temporary signs shall be marked on their back side



the project number.

<u>PAVEMENT MARKING AND SIGNING LEGEND</u>		STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
<u>PAVEMENT MARKING AND SIGNING LEGEND:</u>	HAWAII	HAW.	BR-0560(016)	2022	15		
	PAVEMENT MARKING AND SIGNING LEGEND:	FED. ROAD DIST. NO. PAVEMENT MARKING AND SIGNING LEGEND: HAWAII					

of Special Provisions, DOT of the following FHWA

Streets and Highways" (MUTCD)

pits left by the removal of the reas exposed.

by the Contractor and approved

traffic pattern shall be incidental to the various

ineer prior to any installation

shown on these plans shall eer. Removal and disposal of shall be incidental to the

plans.

ment shall be applied with an Irer and as approved by the ky stage prior to tape

signs at the beginning and at shall be placed as indicated on all be kept in place for the Contractor. These signs shall be called for in Section 645 - Work g signs shall be new and remove, clean and deliver the rected by the Engineer of the

ved until new signs are installed

not be spliced.

cted by the Engineer or as various signing items.

the plans.

reflective thermoplastic

or exact location of markers in E-28.

roadside and within the

with the Contractor's name and

8" White Edge Stripe (Tape, Type I or Thermoplastic Extrusion) Stop Bar (White) (Tape, Type III or Thermoplastic Extrusion) - 8 *New or Relocated Sign (Single & Double Post)* d 8 Existing Sign Reflector Marker (RM-3) w/ Post (A)Replace Existing Sign(s) with New Sign(s) and Post (B)Existing Sign(s) to Remain \bigcirc Remove Existing Sign and Post

*If Needed Galv. sq. tube post *OM-5 (Object Marker) – ~ ~ 2" or 2-1/2" <u>SECTION</u> 18 18

*Note: All red OM-5 object markers shall be 4-sided

2'-0' Max Pav't Design

<u>OBJECT MARKER (OM-5) DETAIL @ TRAFFIC SIGN POST</u> Not to Scale

<u>OBJECT MARKER (OM-5) NOTES:</u>

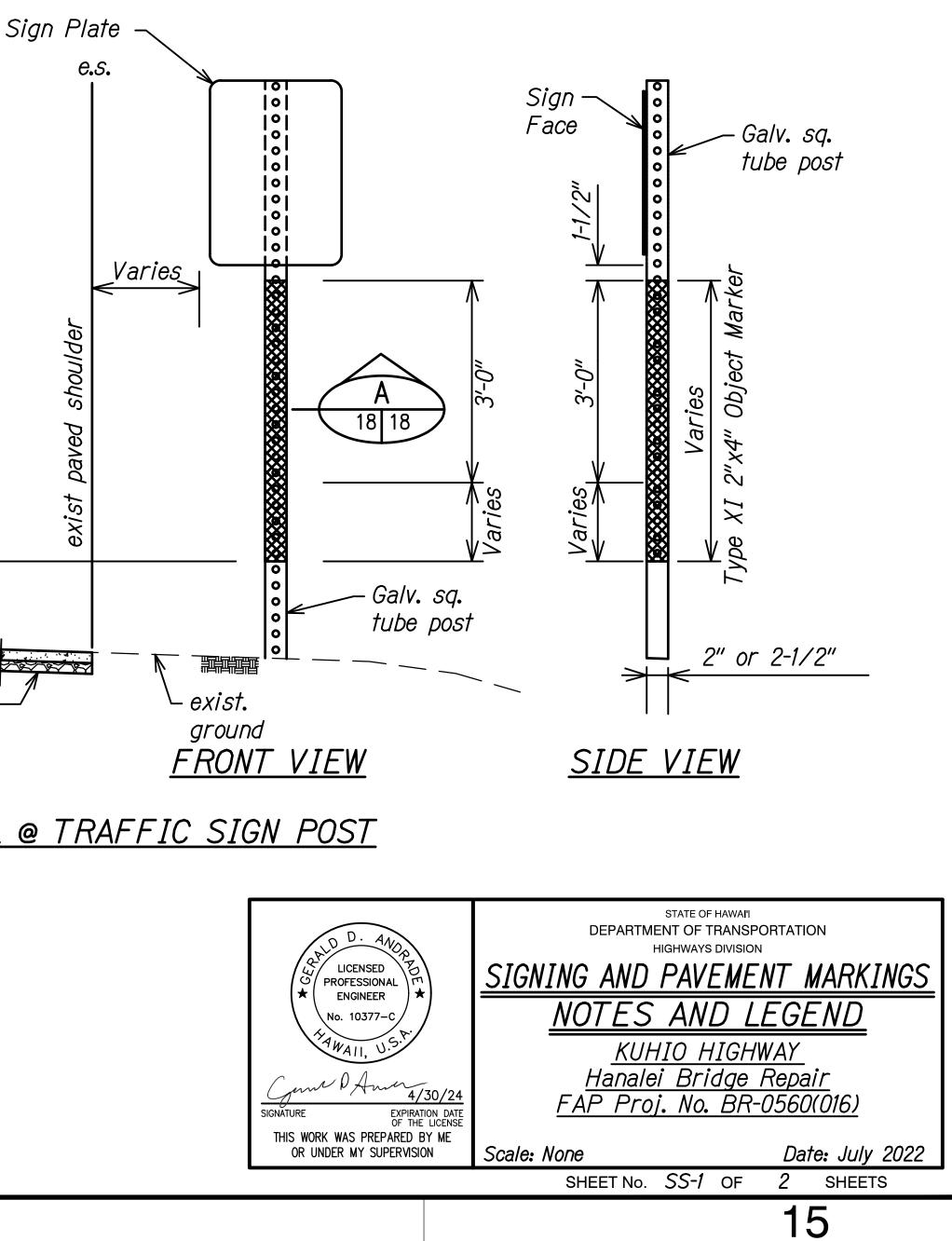
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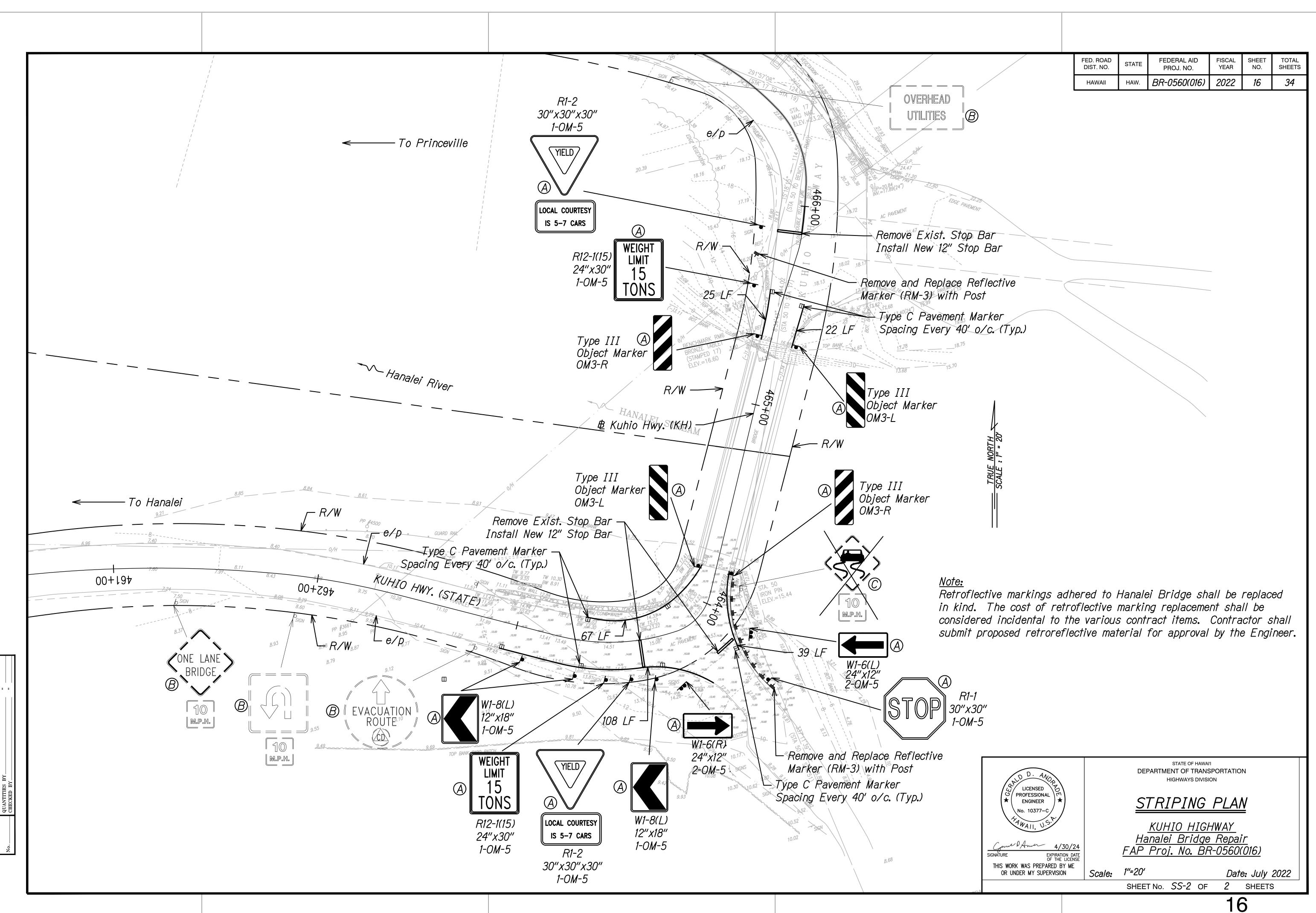
- 2. If a strip of retroflective material is used on a sign support, it shall be at least 2 inches in width, it shall be placed for the full length of the support from the sign to within 2 feet above the edge of roadway, and its color shall match the background color of the sign, except that the color of the strip for the "YIELD" and "DO NOT ENTER" signs shall be red.

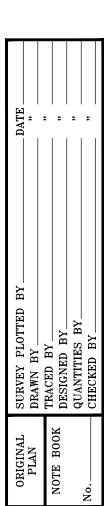
1. Object markers (OM-5) shall be installed on all existing and

proposed regulatory and warning sign posts within the project

- 3. All red OM-5 object markers shall cover 4 sides of the sign post. All other OM-5 object marker colors shall cover 3 sides of the sign post, facing all directions of traffic.
- 4. Background of object marker shall be retroreflectorized with Type XI retroflective sheeting.







<u>GENERAL NOTES FOR TRAFFIC CONTROL PLAN</u>

1.	Only Traffic Control Plans for major construction activities shown. The Contractor shall develop his own Traffic Plans in accordance with Section 645 of the Special P for activities to complete work not covered by the Traf Plans. The Contractor shall submit the Traffic Contro to the Engineer for approval. This work is included a Pay Item 645.1000 - Traffic Control- Hanalei Bridge Re
2.	The Contractor shall make minor adjustments to fit fie with approval of the Engineer.
3.	Cones or delineators shall be extended to a point wher are visible to approaching traffic.
4.	Traffic control devices shall be installed such that the device farthest from the work area shall be placed fir others shall then be placed progressively toward the w
5.	Flaggers and/or police officers shall be in sight of ea or in direct communications at all times.
6.	Sign spacings (L), taper lengths (T), and spacings of c delineators shall be as shown in Table 645-I of Section Specifications, unless otherwise noted on HDOT's Traft Plans.
7.	All traffic lanes shall be minimum of 10 feet wide.
8.	All signs shall be promptly removed or covered wheneve the message is not applicable or not in use.
9.	The backs of all signs for traffic control shall be appropriately covered to preclude the display of inappli sign messages (i.e., when signs have messages on both
10.	At the end of each day's work or as soon as the work completed, the Contractor shall remove all traffic contr devices no longer needed to permit free and safe pass of public traffic. Removal shall be in the reverse ord installation.
11.	Existing conflicting pavement markings shall be remove and temporary pavement markings shall be installed be traffic patterns are changed.
12.	The locations of pavement markings, signs, and delinear in the Traffic Control shall be as shown on the plans, approved Traffic Control Plans, and/or as determined field by the Engineer.
13.	Damage to signs, temporary pavement markers, and dela caused by the public or Contractor's negligence shall b or replaced by the Contractor at the Contractor's expen
14.	Signs for night work shall be retroreflective and shall with a Type B high intensity flasher. The flasher sha considered incidental to Pay Item 645.1000 - Traffic C Bridge Repair.

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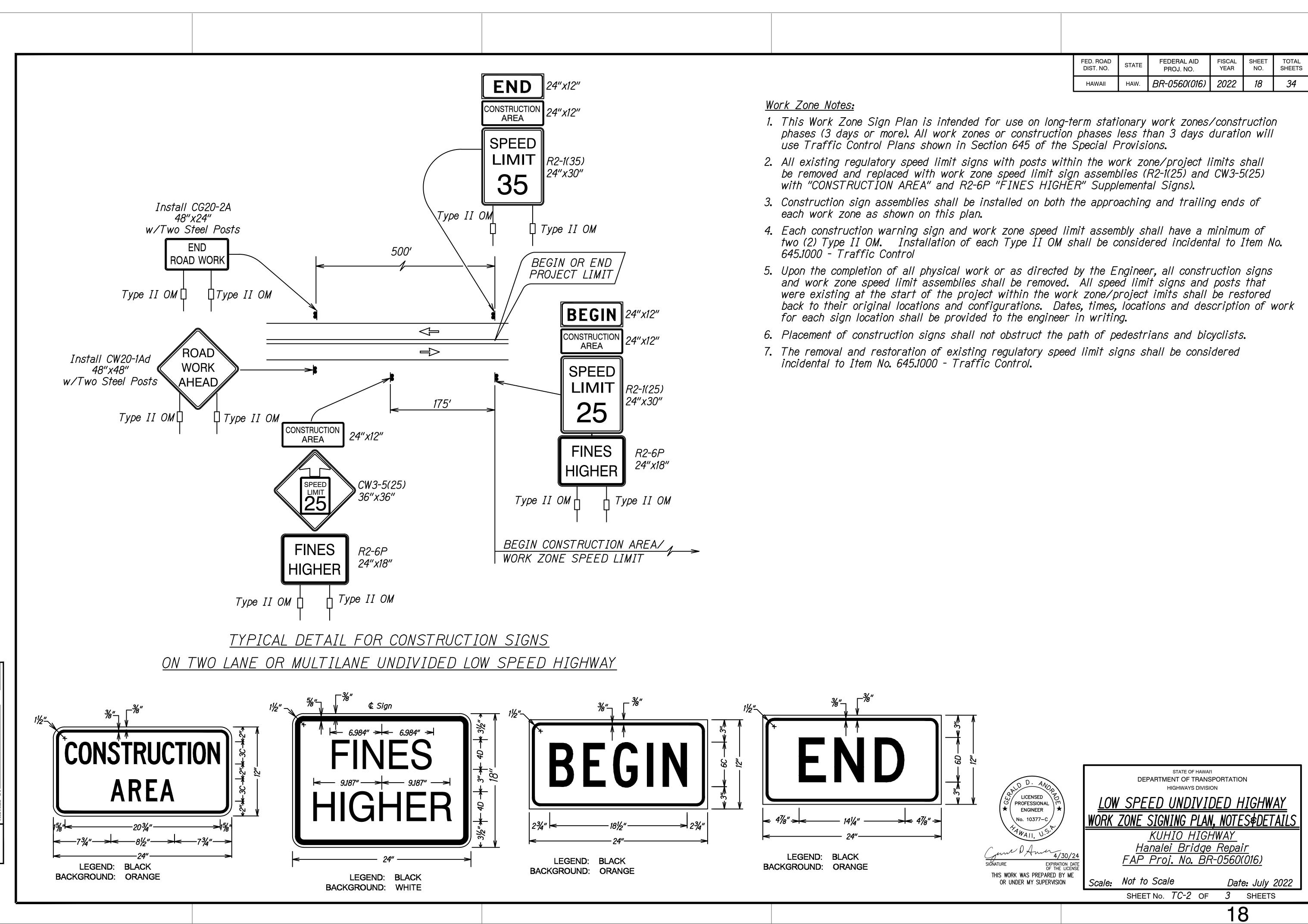
be mounted all be Control-Hanalei

- 15. Steel plates for covering trenches shall have a skid resistant surface. The skid resistant surface shall be maintained throughout its use. Steel plates shall be installed in such a manner as to minimize movement from its intended location and minimize noise when traffic crosses over it (i.e., steel plates shall not generate any noise impact). Payment for steel plates shall be considered incidental to the various contract items. Steel plates will not be allowed in the travelway for posted speeds in excess of 35 mph.
- 16. The Contractor shall limit the extent of trench and excavation work for pavement reconstruction to an area that can be satisfactorily backfilled in one work day.
- 17. Work zone limits shown for each traffic control phase encompass all work items to be completed in that particular phase. The length of the work zone may be reduced to accommodate the Contractor's actual work zone for that time period, provided it has been accepted by the Engineer, and all tangents, tapers, and buffer lengths are maintained.
- 18. The Contractor will be restricted to lane closures as specified in Special Provision Section 645.
- 19. All temporary signs shall be marked on their back side with the Contractor's name and the project number.
- 20. All Type II Barricades and Positive Barriers shall include one Steady Burn Warning Light. Payment shall be considered incidental to Pay Item 645.1000 Traffic Control Hanalei Bridge Repair.

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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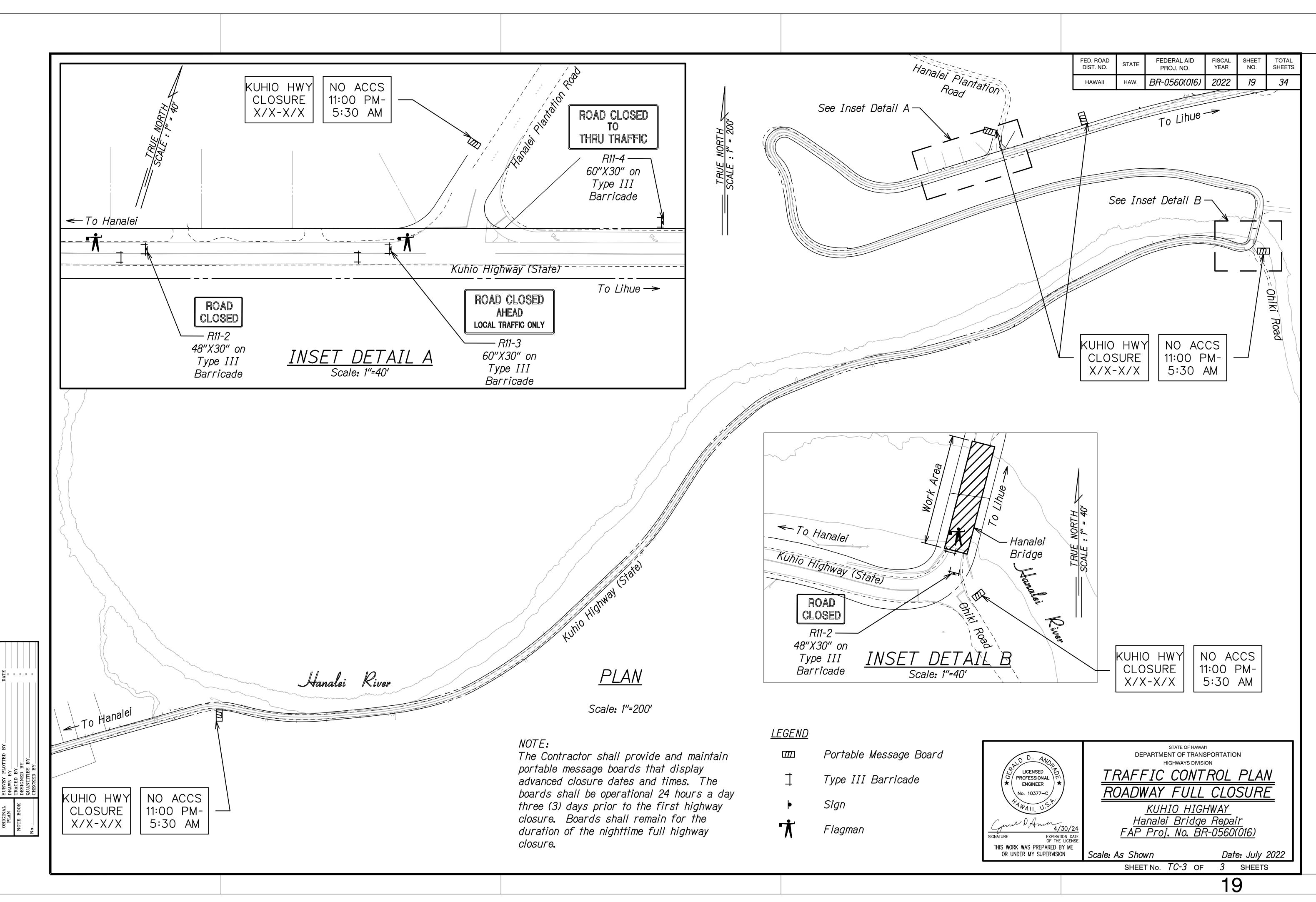
<u>LEGEN</u>	<u>D:</u>
	Work Area
•••	Traffic Cones
-	Flagman
•	Sign
←	Direction of Traffic
	Positive Protection Barrier
00888	Terminal Impact Attenuator
	Temporary Portable Traffic Signal
[m]	Portable Message Board
н	Type II Barricade

D. AND	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
LICENSED PROFESSIONAL MILLICENSED PROFESSIONAL ENGINEER	TRAFFIC CONTROL NOTES
No. 10377-C THANAII, U.S.P.	KUHIO HIGHWAY
Gun Ann 4/30/24 SIGNATURE EXPIRATION DATE OF THE LICENSE	<u>Hanalei Bridge Repair</u> FAP Proj. No. BR-0560(016)
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION	Scale: None Date: July 2022
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HAWAII	HAW.	BR-0560(016)	2022	18	34



1.	"St	andal	<u>Specifications:</u> Hawaii Depa rd Specifications for Road a with Special Provisions prep	nd Bridge Constru
2.	Des	sign (Specifications:	
	A.	Off (Nir inte	erican Association of State H Ticials (AASHTO) 2020 "LRFD oth Edition) and its subseque erim supplements and modifica ision.	Bridge Design Sp nt interim specific
	Β.	dat	OT Document "Design Criteria ed August 8, 2014 and HDOT teria for Bridges and Structo	Memorandum "Cha
3.	Mai	terial	<u>S:</u>	
	А.	Str	uctural Steel	
		(1)	All steel shall conform to th	e following requir
			<u>Rolled Steel Shapes</u>	
			(a) Channels	ASTM A36
			(b) Angles	ASTM A36
			(c) Plates and All Others	ASTM A36
		(2)	All new steel shapes and pl galvanized in accordance wi members shall receive a SS prior to application of coatil	th ASTM A123. A PC-SP16 Brush-of
		(3)	All workmanship shall be in and AWS D1.5.	accordance with
		(4)	All welding, whether shop of welders in conformance with D1.5 of the American Welding a minimum tensile strength	n the Bridge Weld g Society. Filler
		(5)	Field welding to existing st specifically shown or noted Specifications and Special F requirements. Welding shall concentrated heat does not pieces being joined.	on drawings. See Provisions for pre ' be performed su
		(6)	All damage done to galvaniz shall be repaired in accorda based solder. Zinc-rich pai acceptable.	ance with ASTM A

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STRUCTURAL GENERAL NOTES

- ation (HDOT), ion", 2005, act.
- rtation ifications" tions with Highways
- tructures" jes to Design 8, 2018.
- ents:

- o zinc galvanized Blast Cleaning
- e latest AISC
- e by certified Code AWS tal shall have
- mitted unless Standard eat and other that excessive isting steel
- field welding 0 using a zinc of be

- (7) All bolted connections shall be classified as snug-tight connections unless otherwise noted on the plans.
- (8) All bolts which connect steel to steel shall be a structural bolt assembly manufactured in accordance with ASTM F3148, Grade 144, Type 1 unless otherwise noted. Nuts shall conform to ASTM A563 and washers shall conform to ASTM F436. Bolt, Nut, and Washer Assembly shall be mechanically galvanized in accordance with ASTM B695 Class 55. All nuts shall come pre-lubricated from the manufacturer. Bolt head shall be placed on the exterior (visible) face of the connection plate assembly.
- (9) All bolt assemblies shall be touch-up field painted with the specified paint system after assembly.
- (10) See Special Provisions Section 501 for structural steel requirements. All holes shall be pre-punched before shop priming and coating steel. Touch-up paint steel in field.
- B. Timber

3. <u>Materials (Cont.):</u>

- (1) 2X12 Timber (Nominal) Wearing Surface and 4X12 Headers shall be Handroanthus Genus Ipe. See Special Provisions for additional requirements.
- (2) All Cross-Grain Cut Ends on Ipe Timber shall be Sealed with an End Grain Sealing Wax such as Ipe Seal, or approved equal.
- (3) Top of Wearing Surface Fasteners shall be plugged with Ipe Plugs using the Smart-Bit Pro Plug System, or approved equal.
- (4) 6X12 Timber Decking and 8x16 Timber Stringers shall be Douglas-Fir Select Structural. 6x6 Timber Curb shall be Douglas-Fir No. 1. Maximum moisture content shall be 19% and graded in accordance with the National Design Specification For Wood Construction and the Western Wood Products Association Agency Grading Rules.
- (5) All new Douglas-Fir timber shall be treated with preservatives in accordance with AWPA Standard U1 to the requirements of Use Category UC3B. All cut ends in the field shall be field treated with a solution containing a minimum of 10.0% Copper Naphthenate.
- (6) Construction Adhesive used for bonding timber wearing surface to timber decking shall be a two component, 100% solids, moisture-tolerant, high strength, low-modulus, multipurpose epoxy polymer adhesive such as CE330 manufactured by FASTRAC, or approved equal.
- (7) Where noted, all bolt assemblies which connect timber to steel shall be in accordance with ASTM A307 and shall be hot-dip zinc galvanized in accordance with ASTM A153.

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- 3. <u>Materials: (Cont.)</u>
 - (8) Where noted, all stainless steel bolt assemblies and wood screws shall be Type 316.
 - (9) All timber nails shall be standard size for the pennyweight specified. All nails shall be hot-dip zinc galvanized.
 - (10) Adhesive for post-installed dowel bars or threaded rods shall be Simpson SET-3G or approved equal.
- 4. <u>Construction Notes:</u>
 - A. The entire bridge, including superstructure elements and abutments shall be cleaned of all vegetative growth and organic matter. The existing bridge bearings are covered withy soil backfill and shall be dug out and pressure washed clean. This work shall be incidental to the measurement and payment for the various pay items.
 - B. Install protective devices to prevent all construction debris and fugitive dust from entering the river and banks. The Contractor shall submit working drawings for the protective devices to the Engineer for approval. Any work involving these protective devices shall be paid for under Item 209.1000 - Installation, Maintenance, Monitoring, and Removal of BMP and Work Platform. Work shall not begin until the Engineer approves the proposed system.
 - C. Work Platform drawings and calculations, stamped by a Professional Engineer Specializing in Structural Engineering, licensed in the State of Hawaii (herein knows as the "Contractor's Engineer") shall be submitted to the Engineer for review and approval. Calculations shall include a load rating assessment of the existing bridge, and any connections made to it, taking into account the load imposed from the work platform in combination with the posted vehicular loads.
 - D. Work platform used to perform abrasive blasting and painting work shall be designed for the actual weights of required construction equipment and material plus the intended design live load but not less than a minimum of 20 pounds per square foot live load plus 75 pounds per linear foot Live Load applied at all cantilever edge overhangs. Design for lateral loads in conformance with Section 22 of the AASHTO "Guide Design Specifications for Bridge Temporary Works."

55 MIYAHA	STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
PROFESSIONAL ★ PROFESSIONAL ENGINEER NO. 9444-S F	STRUCTURAL GENERAL NOTES
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	<u>KUHIO HIGHWAY</u> <u>Hanalei Bridge Repair</u> FAP Proj. No. BR-0560(016)
SIGNATURE EXPIRATION DATE OF THE LICENSE	Scale: None Date: July 2022
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	<u>STRUCTURA</u>
4. <u>Con</u>	struction Notes (Cont.):
Ε.	The total weight of the work platform (including Dead al Load) shall not exceed 15,000 lbs when factored using A LRFD unless determined by the Contractor's Engineer the be increased.
F.	The hanging work platform beneath the bridge shall not more then 20'-0" across the river at any given time. The shall take this into consideration during bidding. The Co shall be aware that the freeboard height between the riv Ordinary High Water mark and the soffit of the bridge and river elevations fluctuate.
G.	The Contractor shall field verify all existing conditions, and member sizes prior to fabrication of any bridge eler The Engineer shall be notified immediately regarding any of conditions or discrepancies between the plans and fie investigation.
Н.	The structural repair details shown on the plans are ba Engineer's findings during the latest site investigation. existing bridge members that are to remain, have signifi deterioration or are so corroded such that they cannot b or welded to, the Engineer shall be notified immediately. to the repair details or additional repairs that need to b shall be paid for under Item 501.2000 - Additional Struct Repairs.
Ι.	The Contractor shall coordinate all traffic control and la requirements with the State DOT Highways Division. Th Contractor shall notify the State a minimum of 11 days p requests for traffic control or lane closures. Lane close be scheduled on weekdays from 9:00 PM to 4:00 AM.
J.	The Contractor shall be responsible for retaining the set Quality Control inspector to oversee all high strength bol welding inspection, including any non-destructive testing. shall be incidental to the repair work. Reports shall be to the Engineer for review and approval. All deficient w be corrected with no increase in cost to the State.
К.	The Contractor may obtain for review available As-Built of the existing structure from the HDOT Highways Divis Branch located at Kakuhihewa Building, Room 609, 601 Boulevard, Kapolei, HI 96707.

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5. <u>Painting:</u>

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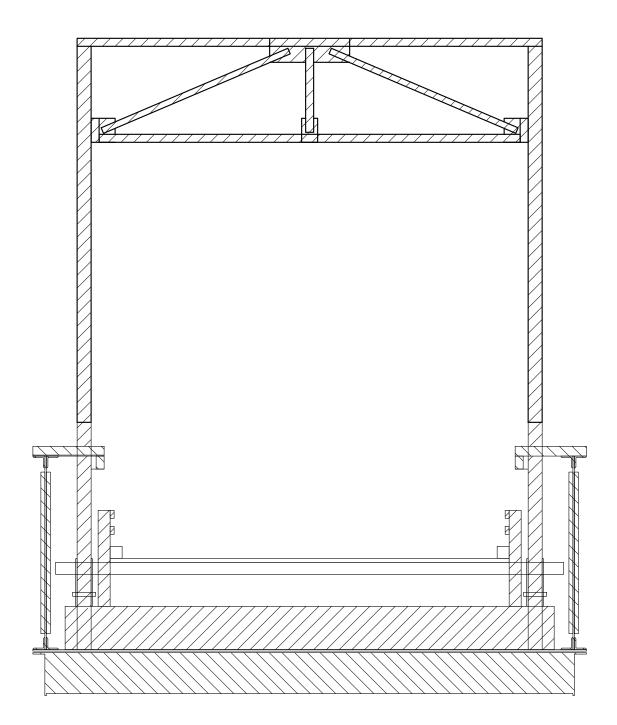
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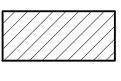
lane closure he prior to any sures may

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⁺ drawings ision, Design Kamokila

- A. See Special Provisions Section 697 for all coating requirements.
- B. The Contractor shall phase the timber decking work with the painting work such that the topside of all W21X93 transom beams are properly cleaned and coated.
- C. The specific coating requirements for the different areas of the bridge shall be as shown below:



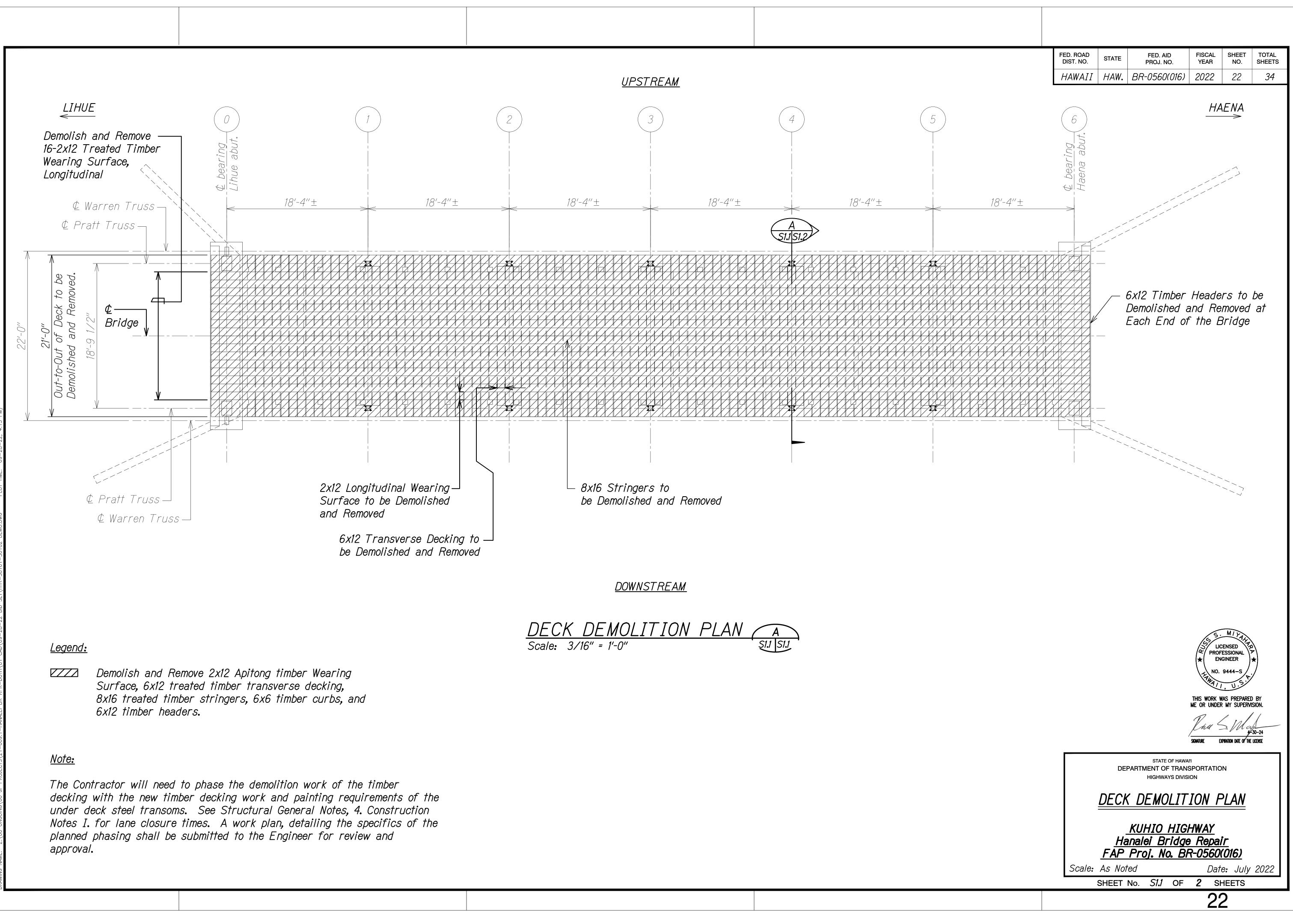


See Special Provisions Section 697 -Pratt Truss Coating Requirements

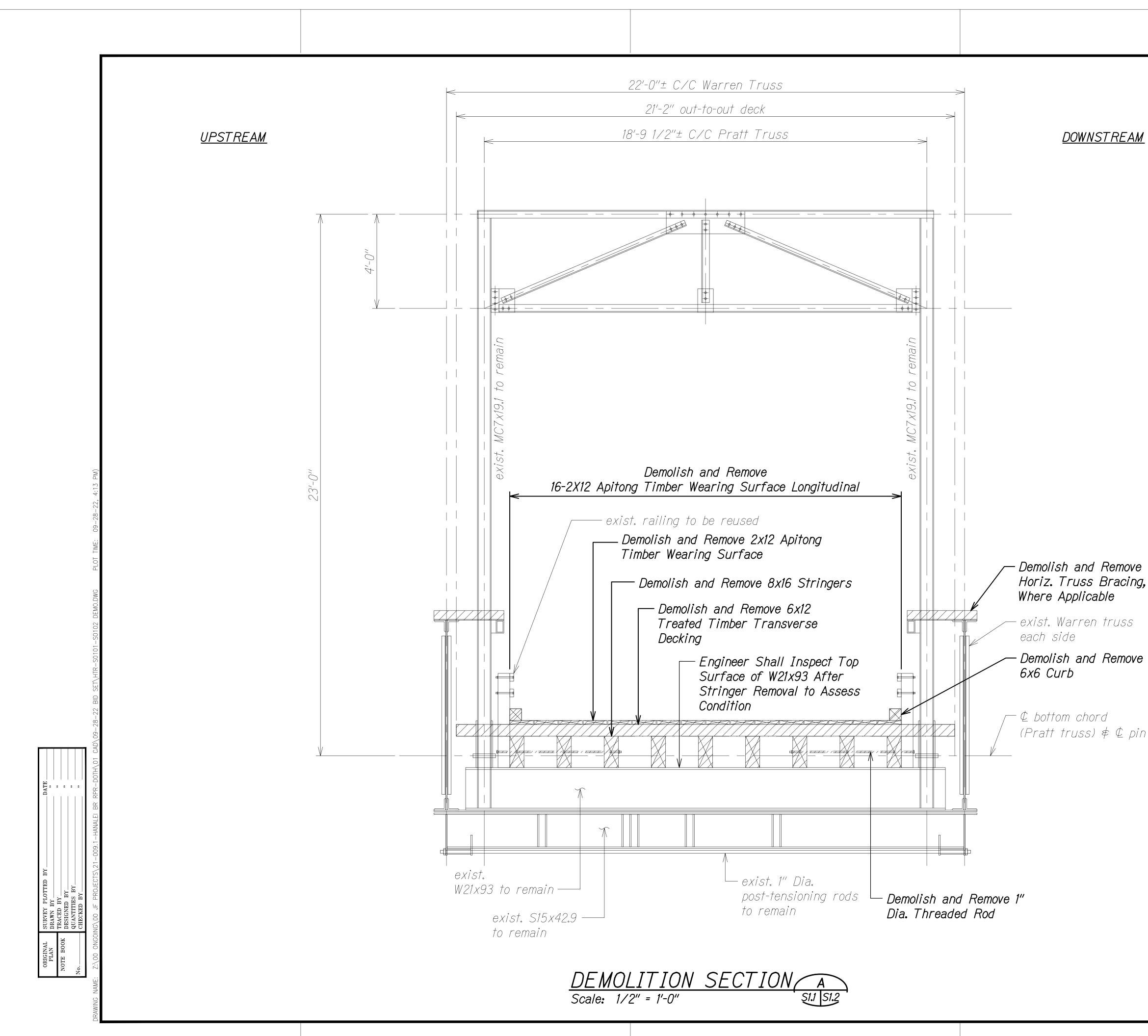
See Special Provisions Section 697 -Warren Truss Coating Requirements

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THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	<u>KUHIO HIGHWAY</u> Hanalei Bridge Repair
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<u>Legend:</u>

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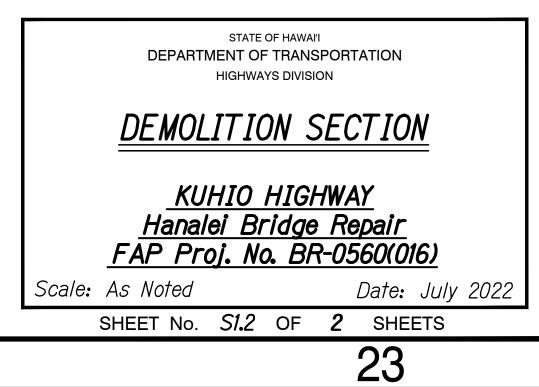
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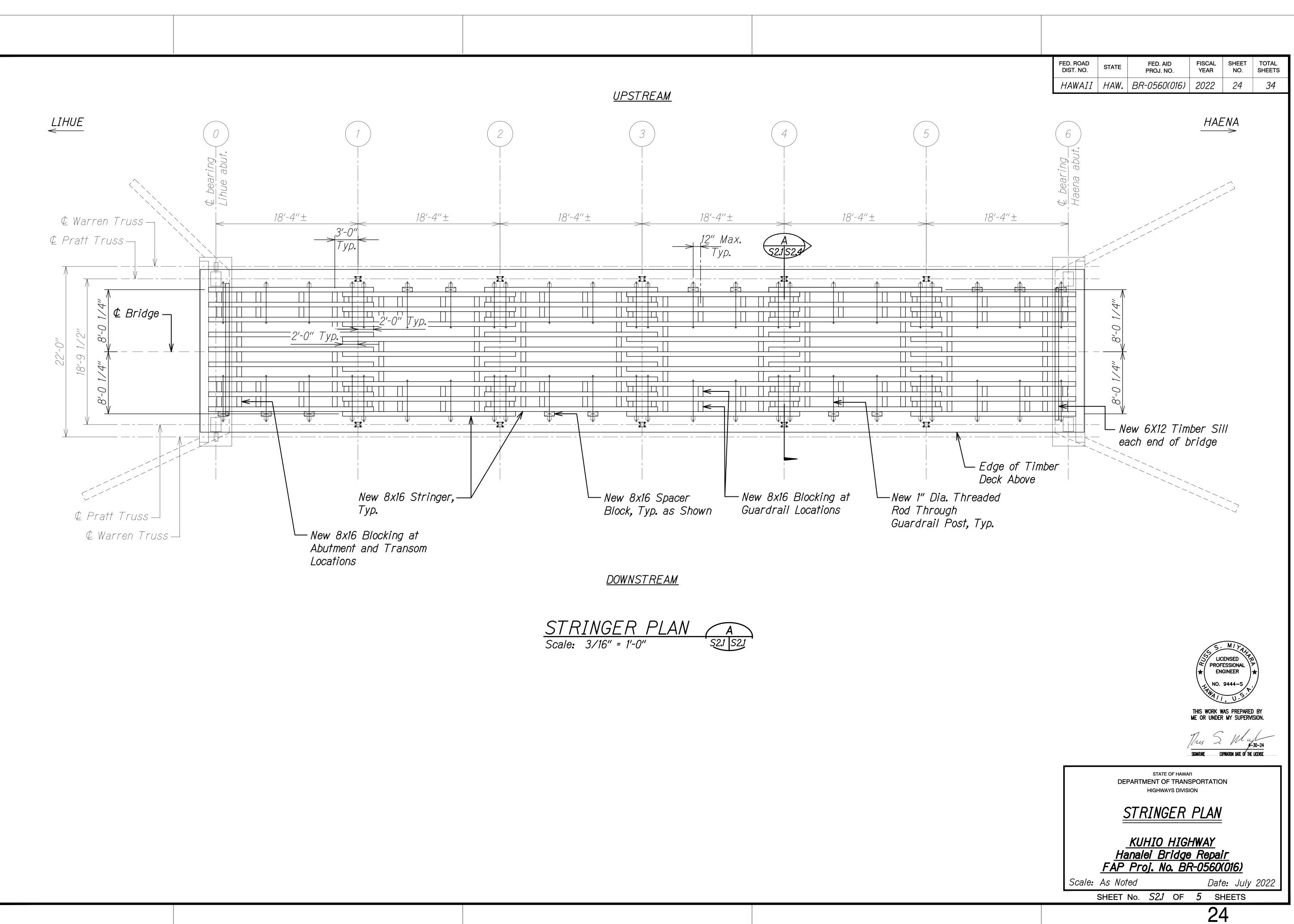
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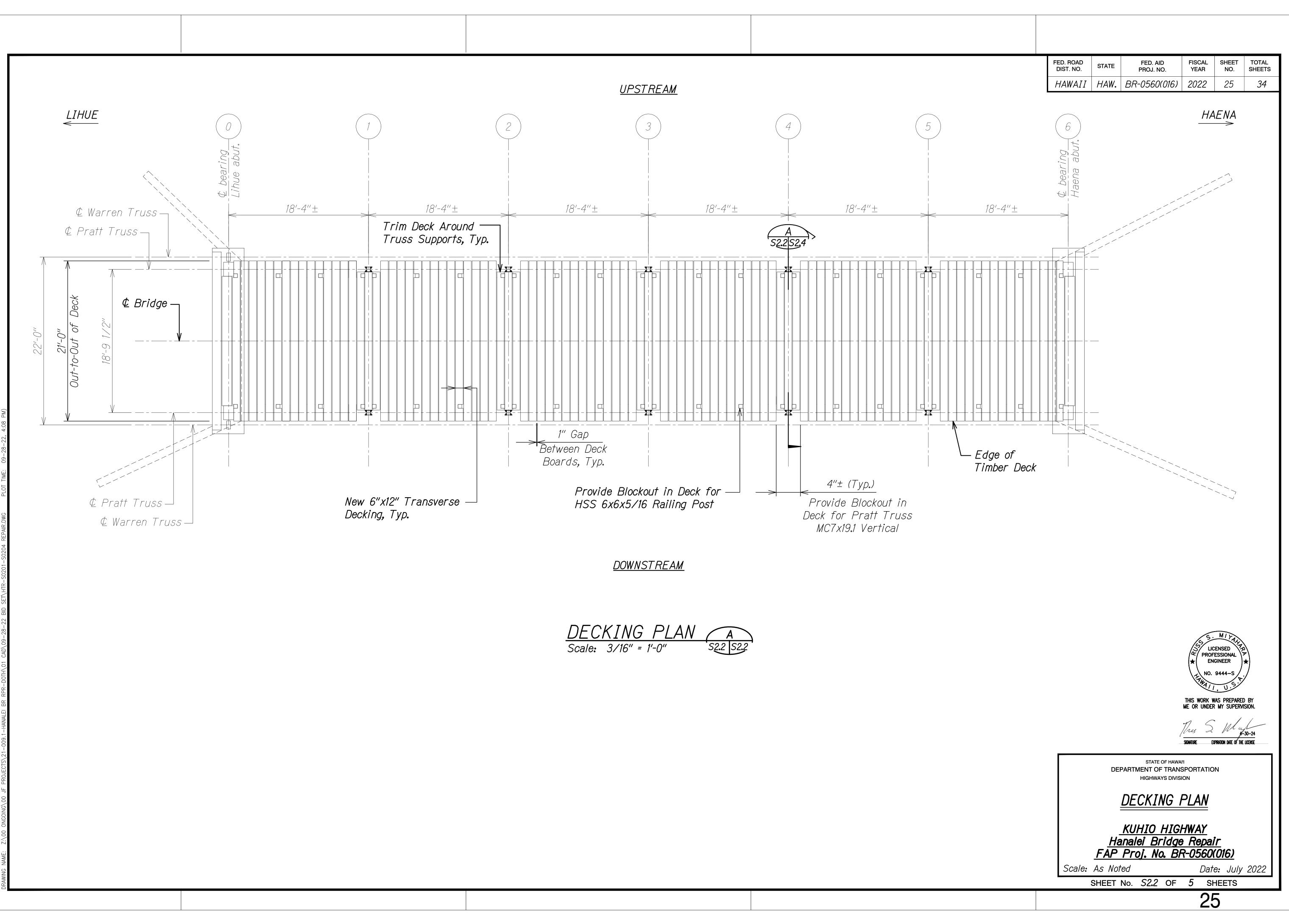




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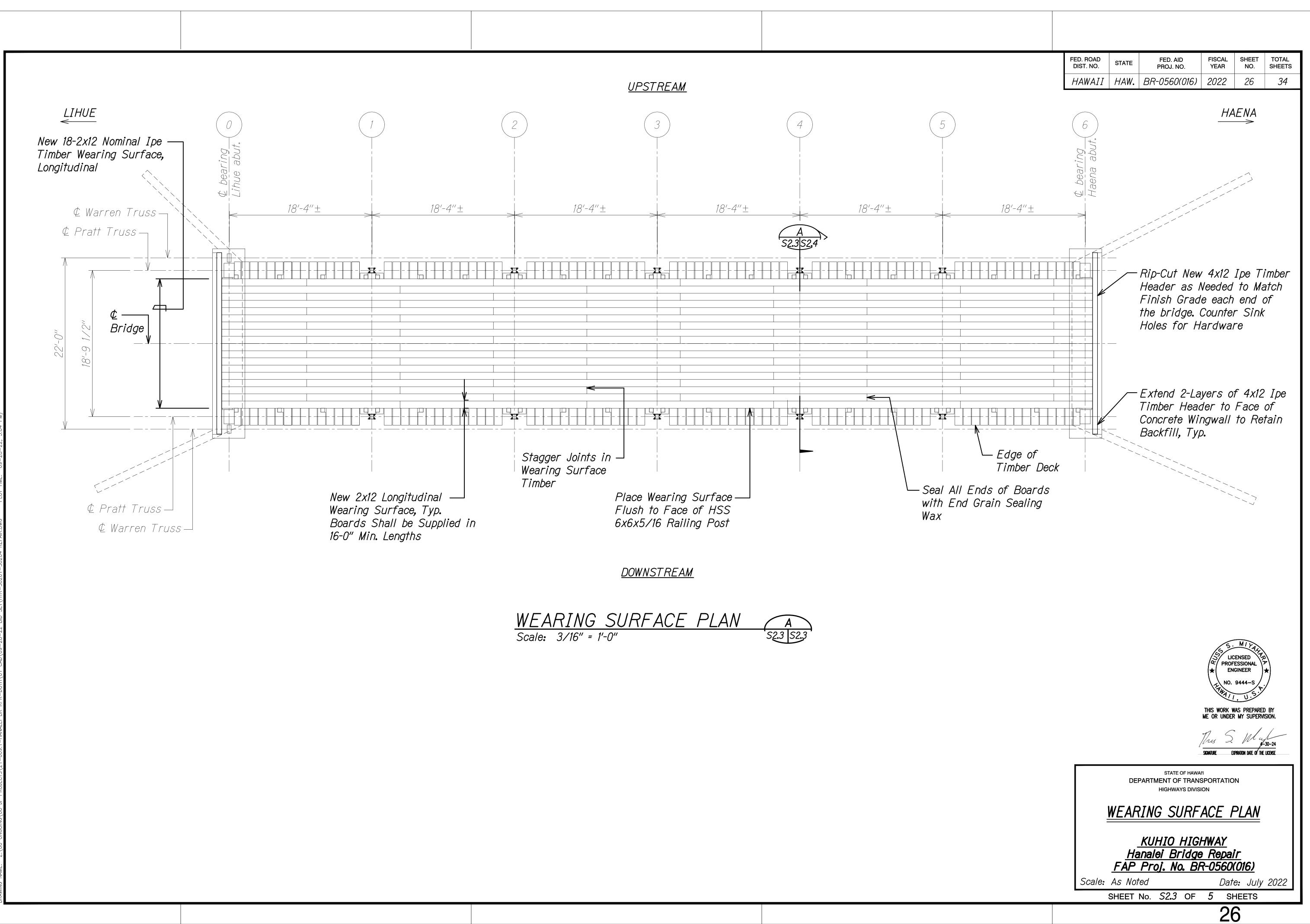


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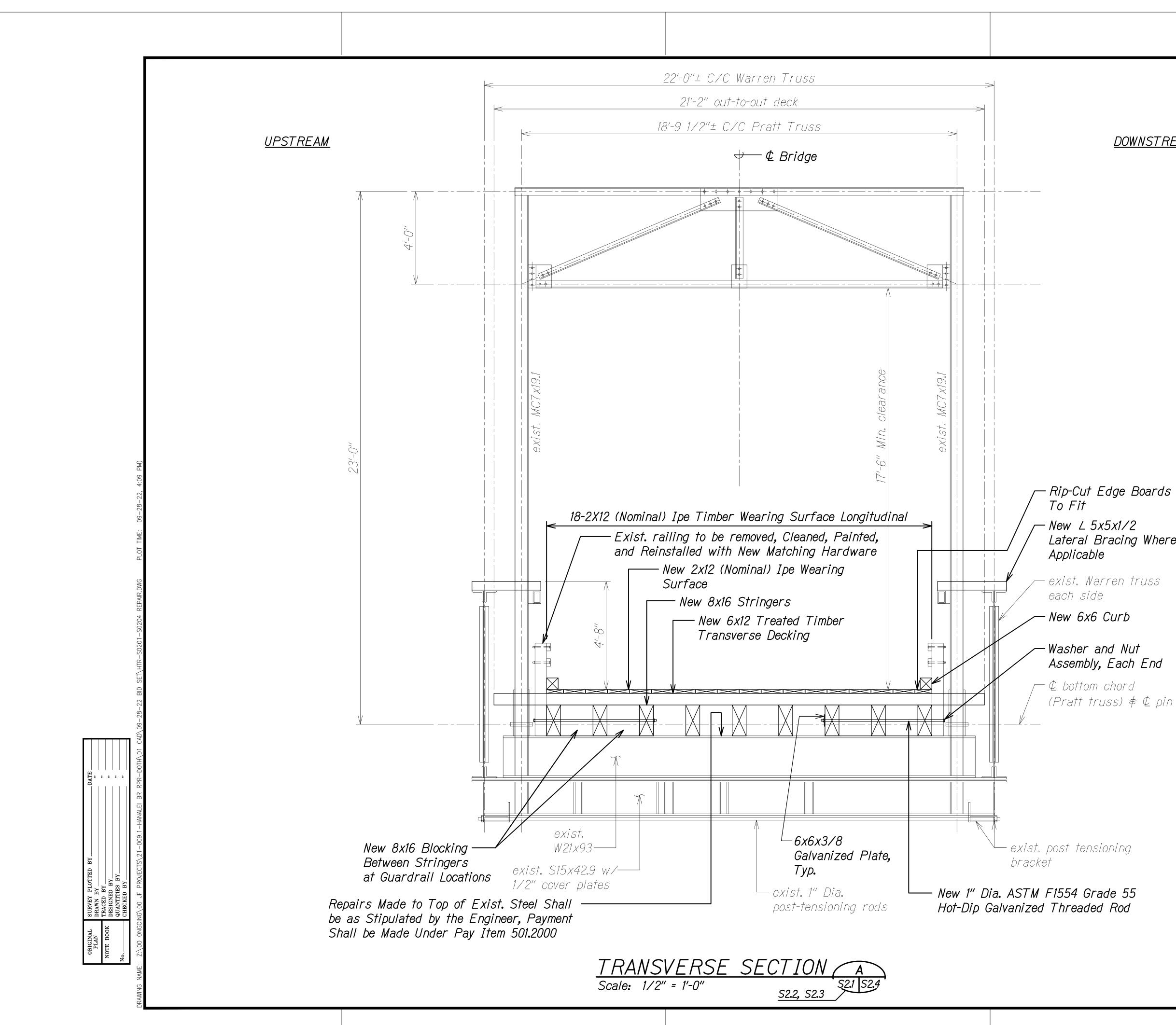


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Lateral Bracing Where

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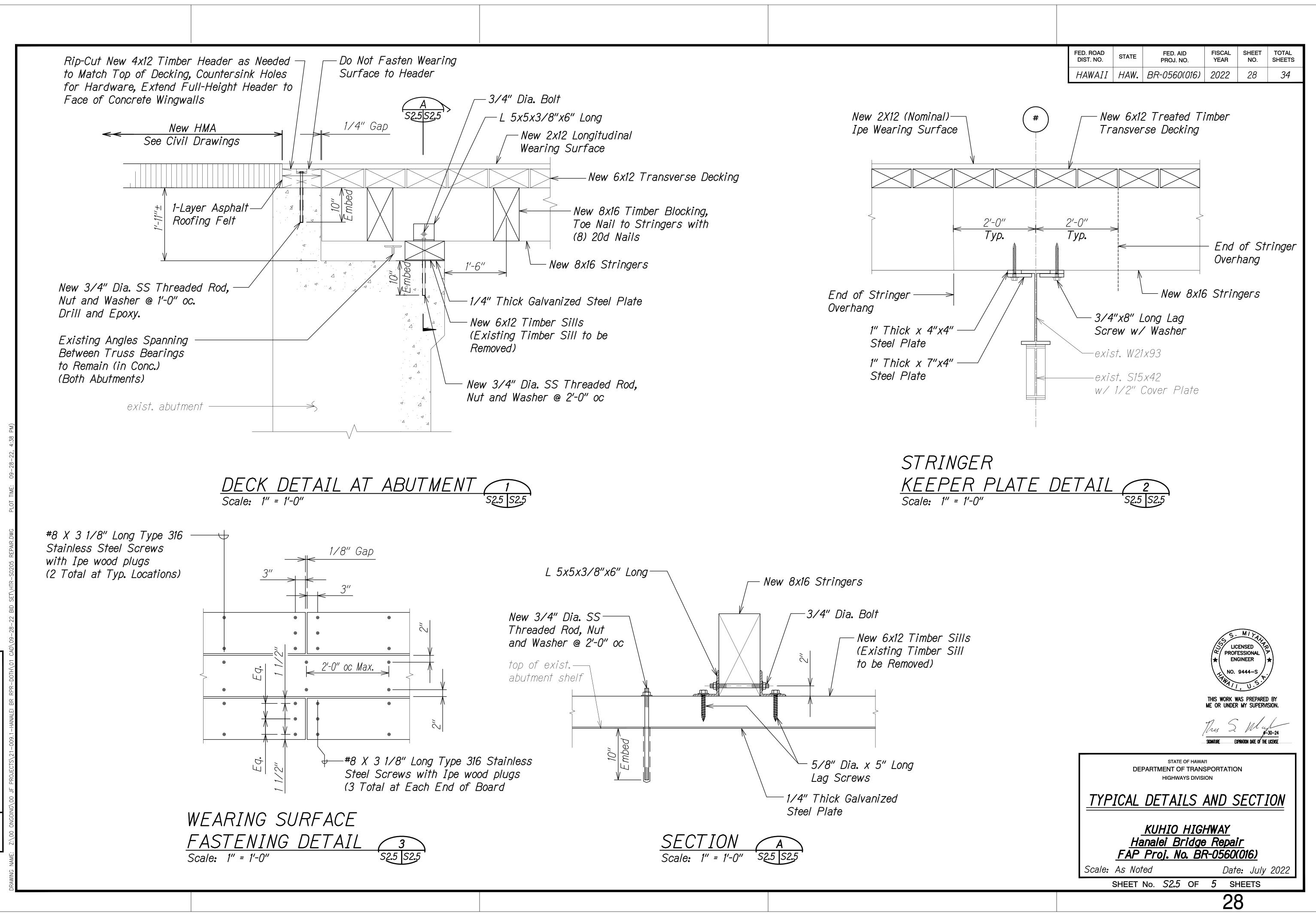
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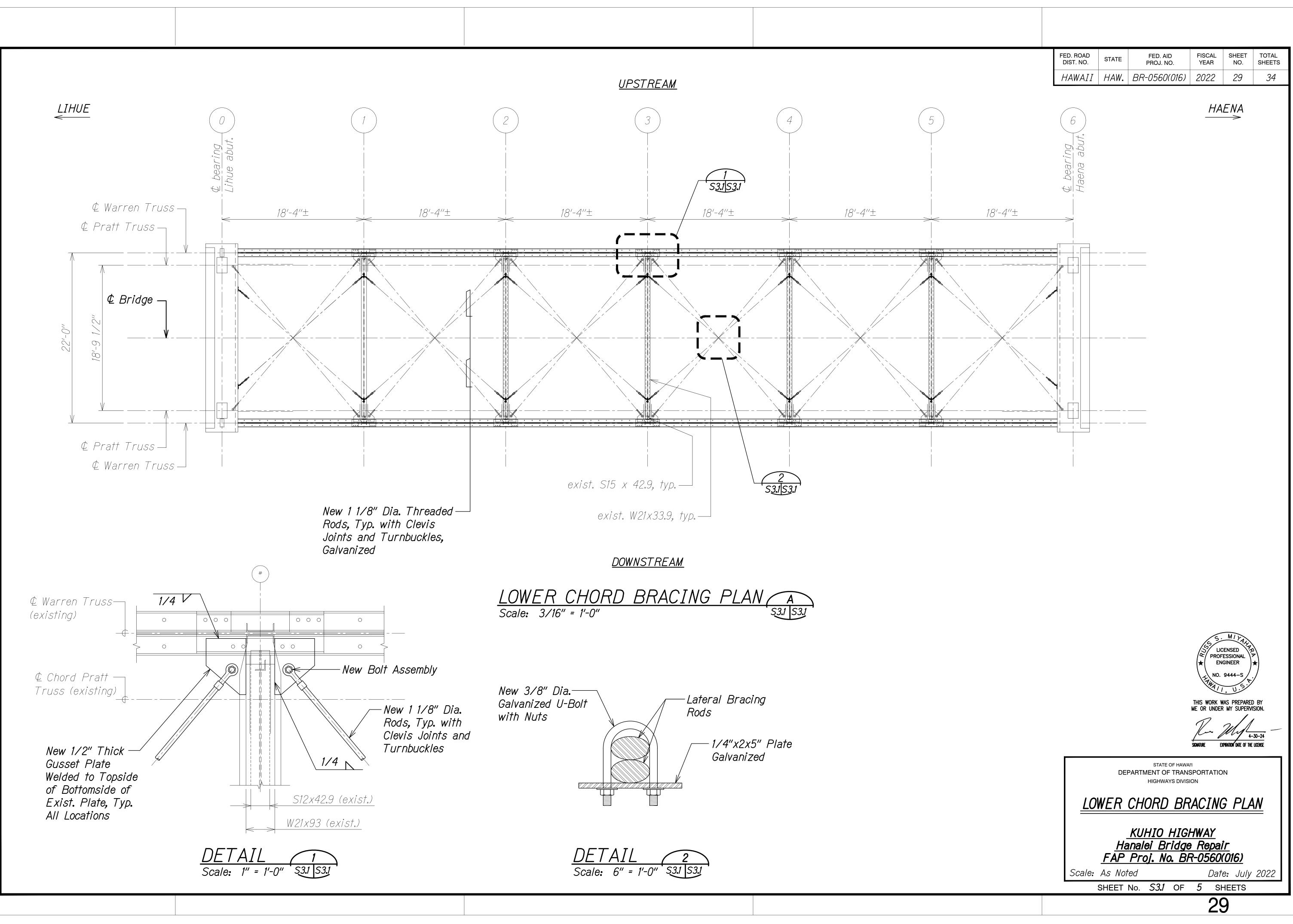
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STATE OF HAWAI'I DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TYPICAL TRANSVERSE SECTION <u>KUHIO HIGHWAY</u> <u>Hanalei Bridge Repair</u> FAP Proj. No. BR-0560(016) Scale: As Noted Date: July 2022 SHEET No. S2.4 OF 5 SHEETS



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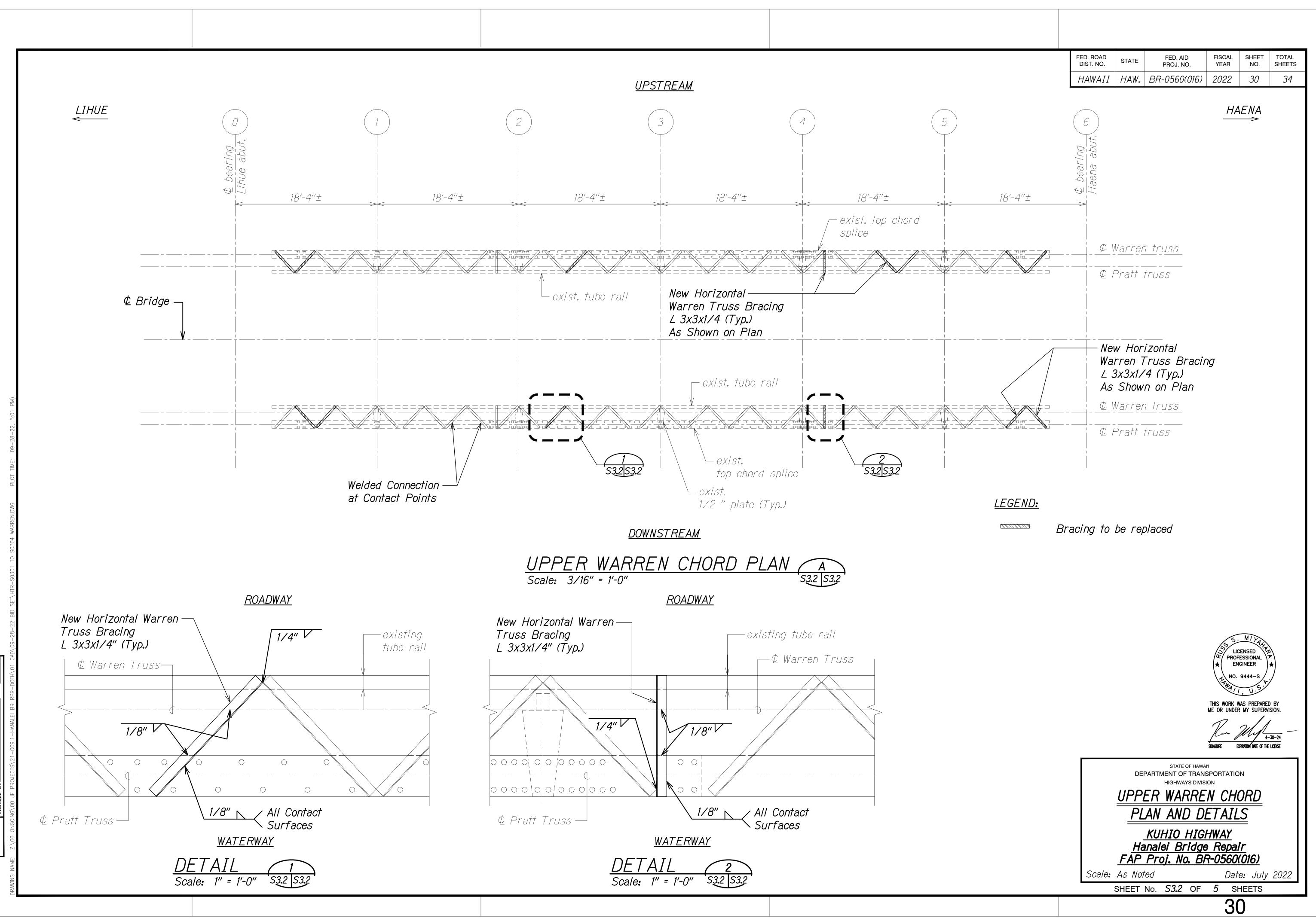


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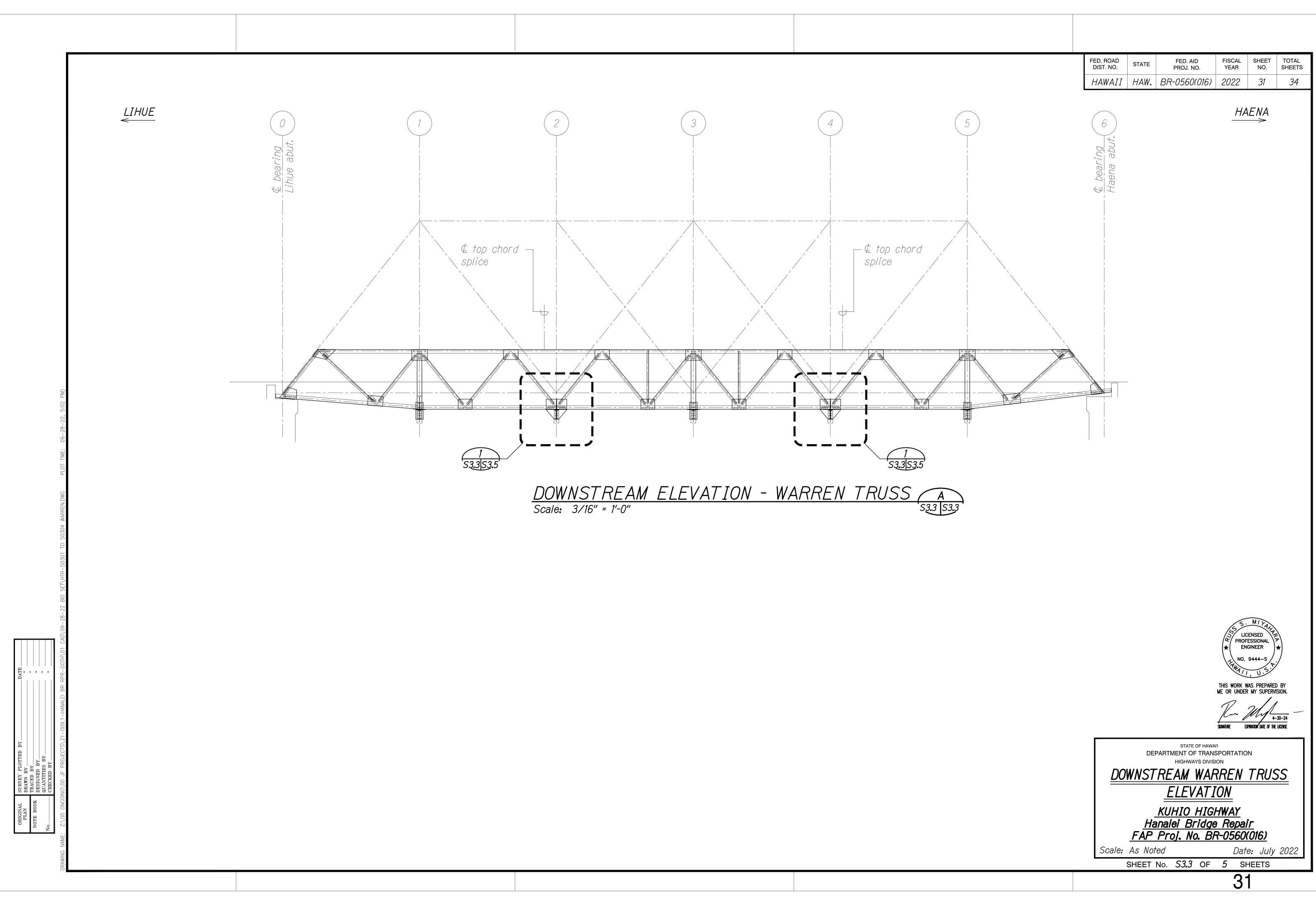
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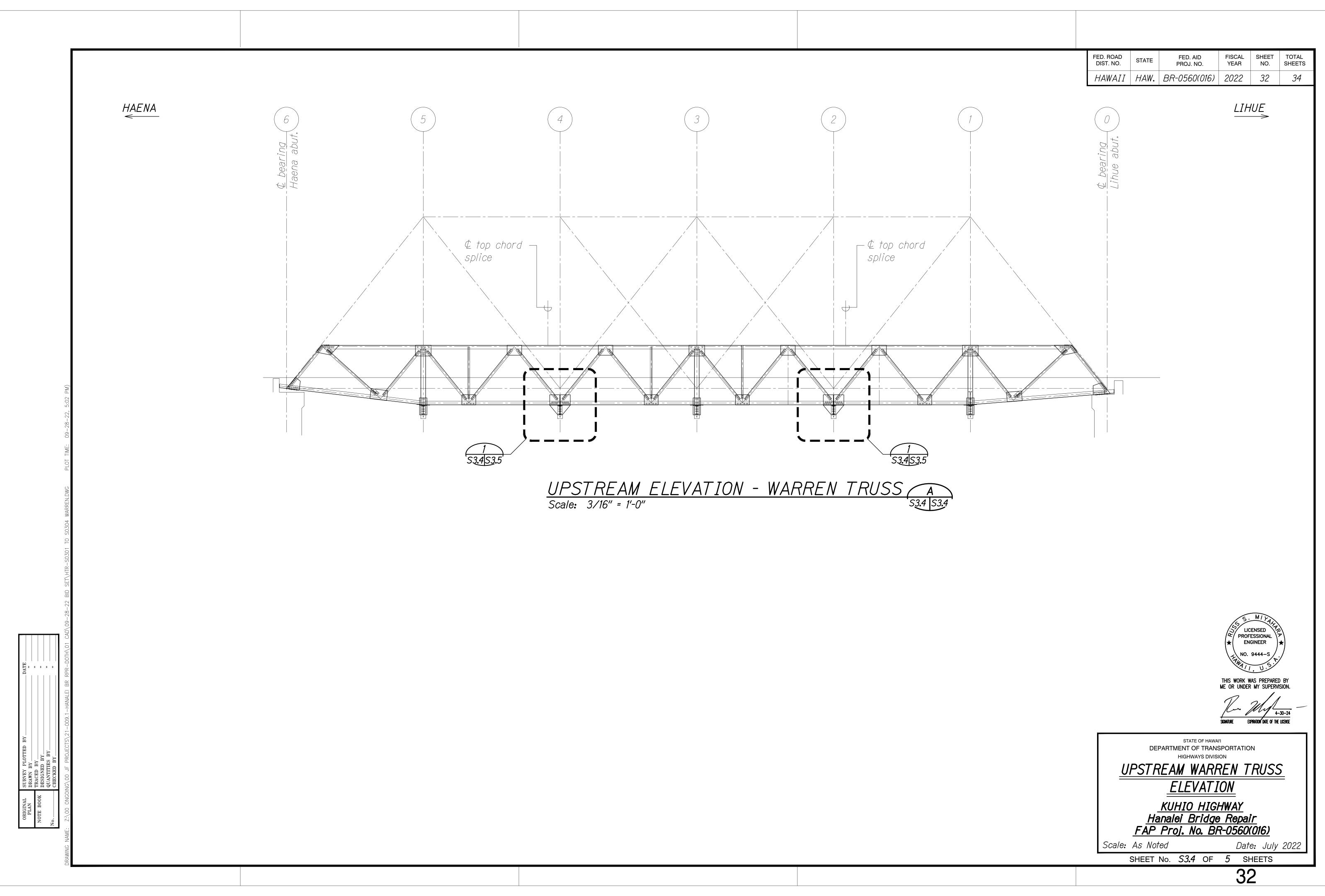


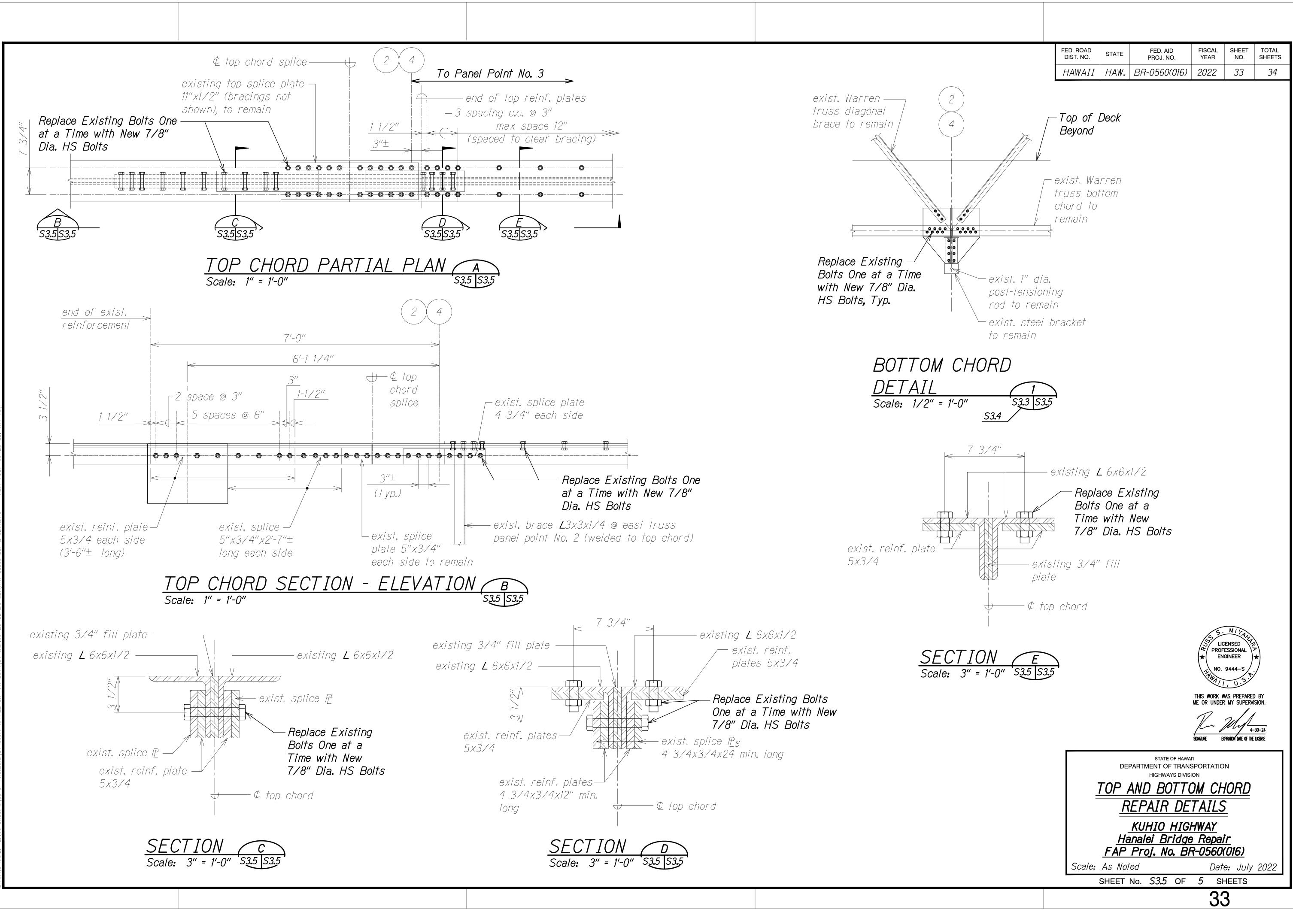
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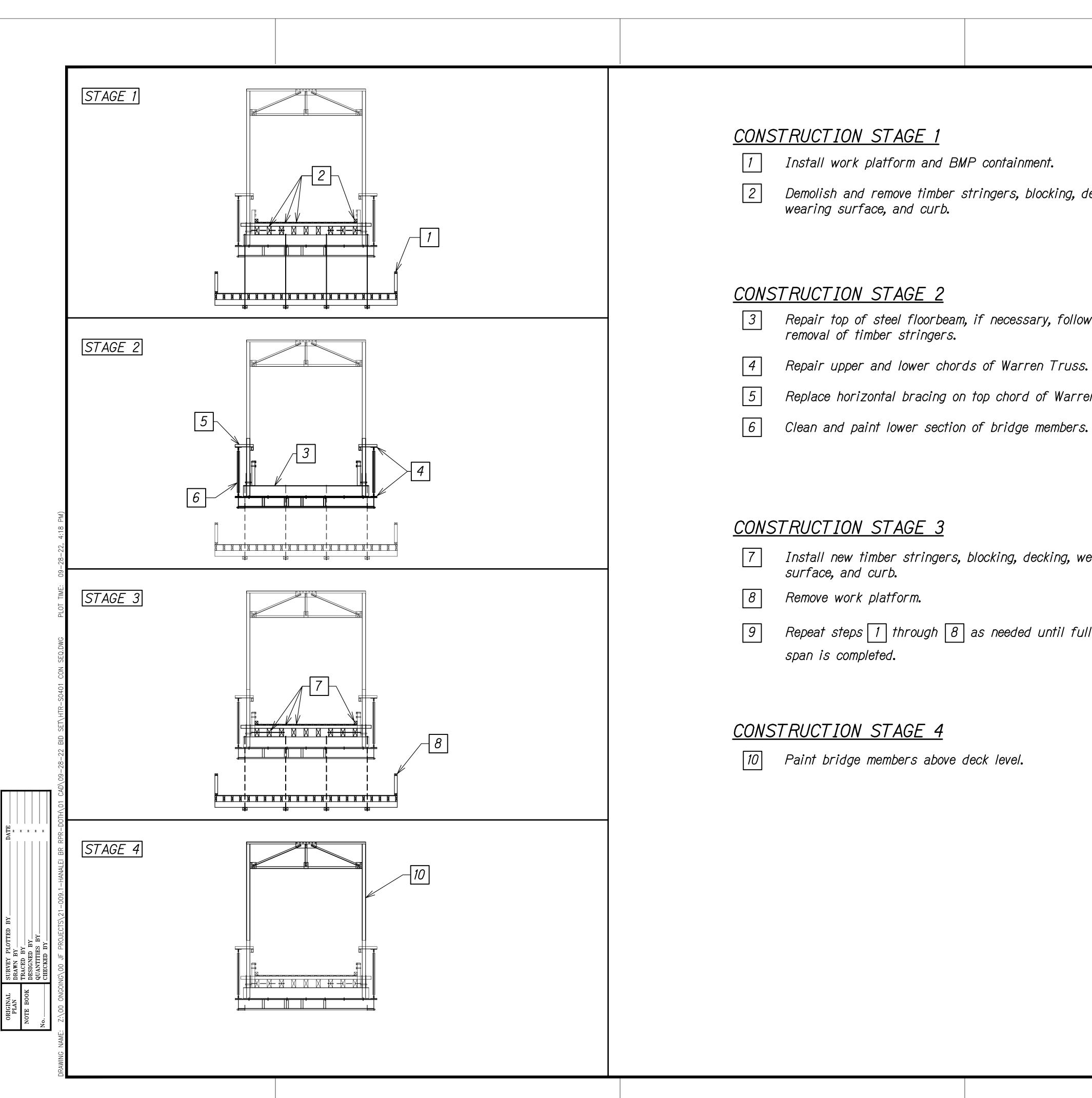
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