

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS**

**ADDENDUM NO. 2
FOR
NIMITZ HIGHWAY SLIP COVER NO. 4
HONOLULU HARBOR BRIDGE REHABILITATION
DISTRICT OF HONOLULU
ISLAND OF OAHU**

FEDERAL-AID PROJECT NO. NH-092-1(032)

MAY 6, 2026

The Addendum shall make the following amendments to the solicitation:

A. SPECIAL PROVISIONS

1. Delete Special Provision **SECTION 602 – REINFORCING STEEL** in its entirety and replace with the attached Special Provision **SECTION 602 – REINFORCING STEEL** dated r5/6/26.
2. Delete Special Provision **SECTION 680 – DEFECTIVE CONCRETE REPAIRS** in its entirety and replace with the attached Special Provision **SECTION 680 – DEFECTIVE CONCRETE REPAIRS** dated r5/6/26.
3. Delete Special Provision **SECTION 681 – CRACK REPAIR BY EPOXY INJECTION** in its entirety and replace with the attached Special Provision **SECTION 681 – CRACK REPAIR BY EPOXY INJECTION** dated r5/6/26.

B. PROPOSAL SCHEDULE

1. Delete **PROPOSAL SCHEDULE** pages P-8 and P-9 dated 01/09/2026 and replace with the attached **PROPOSAL SCHEDULE** pages P-8 and P-9 dated r5/6/26.

C. PLANS

1. Delete **PLAN SHEET NO. 15 – STRUCTURAL GENERAL NOTES, INDEX OF STRUCTURAL DRAWINGS** and replace it with the attached **PLAN SHEET NO. ADD. 15 – STRUCTURAL GENERAL NOTES, INDEX OF STRUCTURAL DRAWINGS**.

2. Delete **PLAN SHEET NO. 16 – STRUCTURAL GENERAL NOTES AND ABBREVIATIONS** and replace it with the attached **PLAN SHEET NO. AD. 16 – STRUCTURAL GENERAL NOTES AND ABBREVIATIONS**.
3. Delete **PLAN SHEET NO. 17 – REPAIR DETAILS** and replace it with the attached **PLAN SHEET NO. ADD. 17 – REPAIR DETAILS**.
4. Delete **PLAN SHEET NO. 18 – REPAIR DETAILS** and replace it with the attached **PLAN SHEET NO. ADD. 18 – REPAIR DETAILS**.
5. Delete **PLAN SHEET NO. 19 – DAMAGE SCHEDULE** and replace it with the attached **PLAN SHEET NO. ADD. 19 – DAMAGE SCHEDULE**.
6. Delete **PLAN SHEET NO. 20 – OVERALL SLIP COVER NO. 4 BRIDGE PLAN** and replace it with the attached **PLAN SHEET NO. ADD. 20 - OVERALL SLIP COVER NO. 4 BRIDGE PLAN**.
7. Delete **PLAN SHEET NO. 21 – SLIP COVER NO. 4 BRIDGE DECK PLAN** and replace it with the attached **PLAN SHEET NO. ADD. 21 – SLIP COVER NO. 4 BRIDGE DECK PLAN**.
8. Delete **PLAN SHEET NO. 22 – SLIP COVER NO. 4 BRIDGE SOFFIT PLAN** and replace it with the attached **PLAN SHEET NO. ADD. 22 - SLIP COVER NO. 4 BRIDGE SOFFIT PLAN**.
9. Delete **PLAN SHEET NO. 23 – SLIP COVER NO. 4 BRIDGE ELEVATIONS** and replace it with the attached **PLAN SHEET NO. ADD. 23 – SLIP COVER NO. 4 BRIDGE ELEVATIONS**.
10. Delete **PLAN SHEET NO. 24 – BENT 1 BRIDGE SECTIONS** and replace it with the attached **PLAN SHEET NO. ADD. 24 - BENT 1 BRIDGE SECTIONS**.
11. Delete **PLAN SHEET NO. 25 – BENT 2 BRIDGE SECTIONS** and replace it with the attached **PLAN SHEET NO. ADD. 25 - BENT 2 BRIDGE SECTIONS**.
12. Delete **PLAN SHEET NO. 26 – BENT 3 BRIDGE SECTIONS** and replace it with the attached **PLAN SHEET NO. ADD. 26 - BENT 3 BRIDGE SECTIONS**.
13. Delete **PLAN SHEET NO. 27 – BENT 4 BRIDGE SECTIONS** and replace it with the attached **PLAN SHEET NO. ADD. 27 - BENT 4 BRIDGE SECTIONS**.

The following is provided for information:

**D. RESPONSES TO REQUESTS FOR INFORMATION/QUESTIONS
(RFIS/QUESTIONS)**

1. The attached **RESPONSES TO REQUESTS FOR INFORMATION** are provided for information.

**E. SECTION 404 NATIONWIDE PERMIT VERIFICATION (DEPARTMENT OF
THE ARMY FILE NO. POH-2025-00123)**

1. The attached **SECTION 404 NATIONWIDE PERMIT VERIFICATION** is provided for information.

Please acknowledge receipt of this **ADDENDUM NO. 2** by recording the date of its receipt in the space provided on **PAGE P-4** of the Proposal.

Henry Kennedy

HENRY KENNEDY
Engineering Program Manager

23 The Engineer will not make allowance for clips, wire or other material used for
24 fastening reinforcement in place. The cost is for the work prescribed in this
25 section and the contract documents.”

26
27 **(III) Amend 602.05 – Payment** by revising lines 810 to 830 to read as follows:

28
29 **“602.05 Payment.** The Engineer will pay for the accepted Reinforcing Steel
30 for Concrete Repairs and Reinforcing Steel for Concrete Repairs within the Tidal
31 Zone at the contract unit cost price for the contract items specified in the
32 proposal.

33
34 The Engineer will pay for the following pay items when included in the
35 proposal schedule:

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Pay Item	Pay Unit
Reinforcing Steel for Concrete Repairs	Pound
Reinforcing Steel for Concrete Repairs within the Tidal Zone	Pound”

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END OF SECTION 602

1 Make the following section part of the Specifications:
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3 **“SECTION 680 – DEFECTIVE CONCRETE REPAIRS**
4

5 **680.01 Description.** This section is for the repair of all concrete spalls,
6 delaminations, honeycombing, and other defective concrete. This section applies
7 to the locations as designated on the plans as well as all other locations
8 encountered by the Contractor.
9

10 **680.02 Materials.** Depending on the location of the repair, the Contractor shall
11 use a polymer modified repair mortar of which shall herein be referred to as a “repair
12 material.”
13

14 **(A) Materials for Shoring and Bracing.** Use commercially manufactured
15 and engineered shoring and bracing systems and components to the extent
16 practical. Members of non-manufactured shoring systems must be designed
17 in accordance with the provisions of the AASHTO LRFD Bridge
18 Specifications. Members of manufactured shoring systems, consisting of pre-
19 engineered components designed and produced specifically for structural
20 shoring, must be used in accordance with the manufacturer's
21 recommendations. Submit calculations and drawings for shoring and bracing
22 for review and approval that are signed and sealed by a licensed Structural
23 Engineer.
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25 **(B) Materials and Equipment for Concrete Preparation.** Materials,
26 equipment, means and methods used for concrete removal and surface
27 preparation must be selected and used such as to minimize damage to the
28 structure and to the concrete substrate that remains.
29

30 **(C) Materials and Equipment for Concrete Removal.** Removal
31 materials, equipment, and techniques must be suitable to produce required
32 concrete surface profiles and level of cleanliness in designated areas.
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34 Concrete breakers, such as handheld breakers, scabblers, and
35 scalers, to have sharp tips to minimize microcracking damage in partial depth
36 removal. Use hand-held breakers to accomplish the work. Size equipment to
37 minimize damage to surrounding concrete.
38

39 **(D) Other Materials and Equipment for Cleaning.** Use equipment that
40 delivers oil-free air capable of cleaning loose material and debris from repair
41 areas at recommended pressures and volumes by repair material
42 manufacturer. If necessary to dry the concrete surface, clean, dry,
43 compressed air may be used. Also, use vacuums capable of removing loose
44 material and debris.
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(E) Formwork and Embedded Items. Formwork and embedded items must meet the requirements specified in Section 503 – Concrete Structures. Install and remove formwork without damaging or staining the existing structure or repair material.

Forms used must be tight enough to hold the material that is used without leaking. All surfaces where bond is not desired must be treated with a form release agent.

(F) Packaged, Rapid Hardening Concrete Repair Materials for Horizontal Repairs. Packaged, rapid hardening concrete repair materials must conform to ASTM C928/C928M. Apply material in layers as required. The concrete repair materials shall attain a minimum compressive strength per ASTM C109 at 2 hours of 4,000 psi and minimum 28-day strength of 6,000 psi.

(G) Packaged, Underwater Repair Grout and Concrete (Including Splash Zone). Packaged, repair grout and concrete for underwater applications must conform ASTM C 1107. Packaged repair grout shall be high strength, nonshrink, cementitious tremie grout composed of fine aggregates and silica fume for use in offshore grouting. Use of this material shall follow the manufacturer’s repair technical data. Apply material in layers as required. The concrete repair materials shall attain a minimum compressive strength per ASTM C109 at 1 day of 3,500 psi and minimum 28-day strength of 6,000 psi.

(H) Polymer Modified Repair Mortar (For Underside of Bridge Repair):
A factory blended cementitious patching material (containing no gypsum) combined with a polymer type admixture, water, and a penetrating corrosion inhibitor. The 7-day and 28-day compressive strength shall be at least 5,000 psi and 6,000 psi respectively. The 28-day permeability shall be <1,000 Coulombs per ASTM C1202, and the 28-day bond strength shall be 1,500 psi per ASTM C882. The polymer type admixture shall be added to the mixing water. The ratio of polymer solids to cement weight shall not be less than 10 percent.

(1) Acceptable Materials:

- Duraltop Gel, The Euclid Chemical Company
- SikaTop 123 PLUS, Sika Corp.

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(I) Packaged, Mortar and Concrete for Vertical and Overhead Repairs.

Packaged, mortar and concrete must conform to ASTM C387/C387M. Packaged repair mortar shall be fiber-reinforced, shrinkage compensated, high early strength, fast-setting, and high cementitious mortar with a corrosion inhibitor. Use of this material shall follow the manufacturer's repair mortar technical data. Apply material in layers as required. The concrete repair materials shall attain a minimum compressive strength per ASTM C109 at 3 hours of 2,500 psi and minimum 28-day strength of 6,000 psi.

(J) Bonding Agent.

A three component, preproportioned, water based epoxy modified Portland cement bonding agent and anti-corrosion coating designed to bond fresh concrete to existing concrete. ASTM C882 Bond strength shall exceed 2400 psi at 14 days.

(1) Acceptable Materials:

Duraltop AC, The Euclid Chemical Company

Sika Armatec 110 EpoCem, Sika Corp.

(K) Rapid Hardening Cement. Rapid hardening cement shall conform to ASTM C1600/C1600M.

(L) Water. Water used with packaged and proprietary materials must meet ASTM C1602/C1602M requirements.

(M) Aggregates. Aggregates must meet the repair material manufacturer's requirements if available and ASTM C33/C33M if such requirements are not specified.

(N) Epoxies.

(1) Epoxy mortars and epoxy compounds must conform to ASTM C881/C881M, Type IV, Class C, Grade 1 or 3.

(2) Epoxy mortars used for repairing defects in hardened Portland cement concrete must meet the requirements of ACI 503.2- 503.4.

(3) Epoxy used for crack repair must meet the requirements of ACI 503.7.

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(O) Curing Compound. For curing of polymer modified repair concrete and mortars, apply Sinak Lithium Cure 1000 or approved equivalent curing compound at a coverage rate of no more than 200 ft² per gallon. For curing concrete that will receive surface sealers, apply impervious sheeting, ASTM C171, or check with the manufacturer of the surface treatments on the recommended method of curing.

(P) Other Materials: All other materials, not specifically described but required for the successful completion and installation of the work shall be as selected by the Contractor, subject to the acceptance of the Engineer.

(Q) Substitution of Materials.

(1) Use only materials specified herein. Other materials of the same manufacturer or of other manufacturers may not be substituted for those specified without written approval of the Engineer. This is not to be construed as to limit competition but to establish a standard of quality. Other manufacturers of equal or better system of products may be considered as a substitution to the system of products specified herein, however, complete documentation proving that the substituted product meets or exceeds the performance of the specified product shall be provided in order to provide a basis for evaluation and comparison. Submission of incomplete, inadequate, incongruous, vague material and installation data will be grounds for disapproval without review.

(2) Substantiation: For substitution requests, submit documentation from the manufacturer's home office since claims by field sales and products representatives are not recognized by the parent company should a claim be inaccurate.

(R) Miscellaneous Equipment. Equipment designed specifically for the application of repair materials must be used as required by the repair material manufacturer and the referenced specification. Equipment used for repairs must be clean and in good operating condition. All supplies and equipment must be available in sufficient quantities to allow continuity in the installation project and quality assurance.

680.03 Construction.

(A) Submittals.

(1) Material Safety Data Sheets: Furnish the manufacturer's Material Safety Data Sheets for each of the materials present at any time on the job site.

181 (2) Manufacturer's data sheets and certificates of compliance
182 signed by the manufacturer for the following:

183
184 (a) Bonding agent and anti-corrosion coating for reinforcing
185 steel bars.

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187 (b) Pre-packaged polymer modified repair mortar which
188 contains a penetrating corrosion inhibitor.

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190 (c) Materials for curing repair concrete and mortars.

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192 (d) Equipment: Submit descriptive literature describing the
193 kinds, types, model numbers and operational features of the
194 mixing and application equipment proposed for use on this
195 project.

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197 (e) Prepare and submit a work plan describing the methods
198 of concrete removal and repair, including methods, equipment
199 and materials to be used for each feature. Submit the work
200 plan for approval at least 45 days prior to the start of the work.
201 The plan must include, but not be limited to, repair materials to
202 be used with specific information on products and/or
203 constituents, and requirements for handling, storage, etc.,
204 equipment to be used, surface preparation, and requirements
205 for placement, finishing, curing and protection specific to the
206 materials used, and containment system to prevent material
207 from entering the roadway and water. Include a description of
208 field demonstrations in the work plan. Include protection
209 measures for pedestrians, motorized traffic, mechanical,
210 electrical, and plumbing equipment, surrounding construction,
211 project site, landscaping, and surrounding structures. Do not
212 commence work until the work plan and field demonstration
213 representative of the type of work are approved.

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215 (f) Formwork and Shoring. The Contractor shall retain a
216 Hawaii Licensed Structural Engineer to review and stamp the
217 design calculations and drawings of formwork and shoring.

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219 (3) Three specimen per test age shall be prepared and tested in
220 accordance with ASTM C109. These test ages are 7-days and 28-
221 days.

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223 (B) **Quality Assurance.**

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225 (1) The Contractor shall be experienced (5 years or more) and
226 have expertise in the field of spall repairs of reinforced concrete

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structures, proper application of migrating corrosion inhibiting admixtures and protective coatings, and be familiar with the materials, repair and protection systems specified for this project. The manufacturers of the repair and protection systems shall be members in good standing of the International Concrete Repair Institute (ICRI). The Contractor will employ and provide a full-time supervisor to be on site at all times during the duration of the work covered in this Section. This person will work very closely with the manufacturer of the repair systems, the Engineer and the State's representative.

(2) Codes and Standards: Comply with all locally applicable codes, regulations and requirements pertaining to this work.

(3) Rejection of Installed Work: The Engineer shall have the right to reject all work which is not in compliance with the requirements of the drawings and specifications.

(a) Indication of lack of skill on the part of installation and application mechanics shall be sufficient grounds for the Engineer to reject applied products and to require their immediate removal and complete reinstallation and application at no additional cost to the State. Mechanics lacking skill shall be replaced.

(b) Replacement of rejected work may require that the materials in places be stripped back to solid substrate and that special additional surface preparation and a change of surface preparation or primer materials may be required. The Contractor shall research and define these procedures and complete the additional surface preparation and reapplication of the repair materials at no extra cost to the State.

(C) Delivery, Handling, and Storage.

(1) Delivery of Materials: Deliver all materials in original tightly sealed containers or unopened packages, clearly labeled and containing manufacturer's name, labels, date of manufacture, lot number, product identification, manufacturer's instructions for mixing, and warning for handling and toxicity.

(2) Storage: Store materials at the Contractor's place of business in cool, dry and safe location out of weather in original containers or unopened packages as recommended by the manufacturer. Temperature and humidity requirements of the manufacturer are to be adhered to at all times.

273 (3) Handling: Handle all materials in a safe manner and in a way to
274 avoid breaking container seals.

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276 (4) Environmental Requirements: Container shall comply with
277 manufacturer's recommendations as to environmental conditions
278 under which the materials may be applied.

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280 **(D) Job Conditions.**

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282 (1) Adhere to the manufacturer's printed instructions regarding
283 weather and climate condition restrictions on the use of all materials
284 supplied in this section.

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286 (2) Do not apply the materials if it is raining or if rain is imminent.
287 Take proper precautions to protect newly placed and completed
288 repairs from weather conditions such as strong wind or rain.

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290 (3) Do not man scaffolds or lift equipment in strong wind or rain
291 conditions that makes working dangerous.

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293 (4) Protection: Precautions shall be taken to avoid damage to any
294 surface near the work area due to spillage.

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296 (5) Barricades: Erect temporary barricades and railings, to prevent
297 people from entering the project area. Coordinate with the Sate's
298 representative on final location and placement. The extent of
299 barricade and railings may be adjusted by HIOSHA requirements at
300 no extra cost to the State.

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302 **(E) Protection of the Work.** Use all means necessary to protect the
303 materials of this section before, during and after installation and to protect
304 this work and the work of all other trades. In the event of damage,
305 immediately make repairs and replacements necessary to the approval of the
306 State's representative at no additional cost to the State.

307
308 **(F) Protection of Surroundings.** Protect pedestrians, motorized traffic,
309 mechanical, electrical, and plumbing equipment, surrounding construction,
310 project site, landscaping, waterways, and surrounding buildings from damage
311 or injury resulting from concrete rehabilitation work. Construct dust and
312 debris barriers surrounding repair work perimeter to control dust and contain
313 debris, and to protect and control construction traffic. Dispose of runoff from
314 demolition or surface preparation operations in accordance with all local
315 ordinances. Disposal methods must avoid soil erosion, avoid undermining
316 pavements and foundations, damage to landscaping and vegetation, and
317 minimize water penetration through other parts of buildings. Collect and
318 neutralize alkaline wastes and acid wastes and dispose in accordance with

319 local, state, and Federal regulations. Comply with local noise ordinances
320 during demolition operations. Obtain required construction phase permits as
321 required by the contractor selected means and methods. Perform demolition
322 work and surface preparation work in a manner that minimizes disturbances
323 of operations. Coordinate work with the Engineer.
324

325 **(G) Underwater Forms.** ACI 301. Set forms mortar-tight and true to line
326 and grade. Chamfer above grade exposed joints, edges, and external
327 corners of concrete 0.75 inch unless otherwise indicated. Forms submerged
328 in water shall be watertight.
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330 Provide formwork with clean-out openings to permit inspection and
331 removal of debris. Notify Engineer a minimum of 48 hours prior to pour for
332 inspection. Formwork shall be gasketed or otherwise rendered sufficiently
333 tight to prevent leakage of paste or grout under heavy, high-frequency
334 vibration. Use a release agent that does not cause surface dusting. Limit
335 reuse of plywood to no more than three times. Reuse may be further limited
336 by the Engineer if it is found that the pores of the plywood are clogged with
337 paste to the degree that the wood does not absorb the air or high water-
338 cementitious materials ratio concrete surface.
339

340 Removal of Forms and Supports: After placing concrete, forms shall
341 remain in place for the time periods specified in ACI 347R, except for
342 concrete placed underwater, forms shall remain in place 48 hours. Prevent
343 concrete damage during form removal. Special Requirements for Reduced
344 Time Period. Forms may be removed earlier than specified if ASTM C 39 test
345 results of field-cured samples from a representative portion of the structure or
346 other approved and calibrated non-destructive testing techniques show that
347 the concrete has reached a minimum of 85 percent of the design strength.
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349 **(H) Formwork and Shoring.** Construct forms to sizes, shapes, lines, and
350 dimensions to match existing adjacent surfaces and textures. Provide forms
351 that match openings, offsets, chamfers, anchorages, inserts and other
352 features. Provide forms for easy removal to minimize damage to concrete
353 surfaces and adjacent surfaces. Apply form release coating over formwork
354 surfaces prior to each concrete placement. Form release agents must not be
355 applied to or come in contact with the repair area concrete substrate or
356 reinforcement.
357

358 Do not damage repair material during removal of formwork for
359 columns, walls, sides of beams, and other parts not supporting weight of
360 concrete or repair material. Perform needed repair and treatment required on
361 vertical surfaces at once and follow immediately with specified curing.
362 Remove all formwork anchors embedded in existing concrete. Fill anchor
363 holes and repair all damage to existing concrete at anchor holes.
364

365 Provide shoring in accordance with the shoring drawings prior to
366 performing work to brace the substrate structure temporarily while repair
367 work is proceeding. Shoring designs and calculations prepared by a licensed
368 Structural Engineer must be submitted to and approved by the Engineer prior
369 to work commencing. Leave formwork and shoring in place to support
370 existing loads, construction loads and weight of repair material in beams,
371 slabs, and other structural members until in-place strength of repair material
372 has attained adequate strength and curing.

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374 **(G) Executions.**

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376 **(1)** All repairs shall be made in accordance with the appropriate
377 repair application procedures (RAP) publications by the American
378 Concrete Institute (ACI).

379
380 **(2)** The Contractor shall inspect all concrete surfaces around the
381 repair area for spalling and/or other deterioration by hammer sounding
382 and exploratory removal methods in accordance with ASTM
383 D4580/D4580M. Areas identified for repair shall be marked on the
384 surface and marked on the project as-built plans.

385
386 **(3) Defective Concrete Removal:**

387
388 **(a)** General: Execute all work in an orderly and careful
389 manner. Protect all surfaces and items to remain. The
390 Contractor is responsible for any and all damages, repairs or
391 replacement of existing surfaces and items to remain. Carefully
392 cut and remove defective materials indicated or found without
393 damaging adjacent material surfaces or items that are to
394 remain. Provide catchment device or platform to collect all
395 concrete chips and other debris for proper disposal offsite.

396
397 **(b)** Where concrete work is to be repaired, make a 1/2 –
398 inch deep square saw cut along straight lines at 90 degree
399 angles, 1 inches beyond the edge of the damaged area or spall
400 into sound concrete, unless noted otherwise. Use a chipping
401 gun to produce the remainder of the 1- inch deep square cut.
402 When a saw-cut edge cannot be achieved because of tool
403 interferences, face of the top edge of the patch shall be
404 chipped out to provide a vertical face a minimum of 1/2-inch to
405 3/4-inch depth, unless shown otherwise. The remainder of the
406 defective concrete shall be chipped out with a chipping gun to
407 solid sound concrete. Adjust saw-cut depth so as not to cut
408 existing concealed reinforcing bars. Do not extend saw-cut
409 beyond the limits of removal work.

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(c) Spalled and Loose Surfaces: Remove all loose concrete and check all spalled areas that are indicated or are obvious upon visual examination.

(d) Sounding: Inspect the remaining exterior concrete surfaces around the repair area for any other defective concrete by tapping with a hammer throughout the exterior surface of the area around the repair and listening for dull or hollow sounds. In areas where tapping does not produce a solid tone, remove loose and spalled concrete until testing produces a solid tone. Use a high frequency chipping hammer to deepen cavity.

(e) Partially exposed reinforcing bar(s) exposed when prying and chipping off concrete shall be fully exposed throughout its length, within the patch area. There shall be a minimum of 1-inch of space between the reinforcing bars and the top of the existing concrete. Remove enough concrete to force reinforcing bar back away from the finished exterior face of the structure.

(f) Remove deteriorated concrete, prepare and clean surfaces to be patched. Clean all chipped concrete surfaces to remove all foreign material and laitance before application of repair material or placement of formwork for cast-in-place concrete repairs.

(g) All concrete surfaces to receive repair material shall be roughened to obtain a concrete surface profile equal to CSP 6-8 in accordance with International Concrete Repair Institute (ICRI) guidelines 310.2 to ensure proper adhesion with repair material.

(4) Surface Preparation:

(a) Cleaning: After removal of all defective concrete, remaining concrete surfaces to be patched shall be structurally sound, clean, free of dirt, powdered concrete, loose mortar particles, paint, film, protective coatings, efflorescence, laitance, and other matter detrimental to proper adhesion of the new patch materials. Work surfaces must be free of ridges, fins or sharp projections. All reinforcing bars in the repair area shall be needle gunned to remove all scale and loose rust. Any areas not patched within 48 hours after needle gunning shall be recleaned. Contractor shall inform Engineer if more than 25% of the area of the reinforcing steel has been lost due to

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corrosion.

(i) Immediately prior to placement of bonding agent and repair material, the repair area shall be cleaned of all dust and debris with high-pressure, oil free compressed air at a minimum of 100 psi. Patch area shall be washed with clean water so that exposed concrete surface is saturated, but with no water accumulation on the surface.

(ii) Prior to applying repair material, follow manufacturer's recommendations for preparation, bonding and application.

(5) Application of Bonding Agent:

(a) All exposed steel and concrete shall be coated with bonding agent. The coating shall be complete with no skips, pin holes or holidays around the entire surface of the exposed steel and concrete. Apply the appropriate number of coats as recommended by the manufacturer. Adhere to manufacturer's requirements for drying time and open time when applying subsequent coats and repair material.

(6) Application of Repair Materials (Not Requiring Formwork):

(a) Repair material manufacturer's representative shall be present for initial repair to ensure proper preparation and application techniques are being utilized.

(b) Mix repair material and apply in strict conformance with the manufacturer's published instructions or job specific written instructions. If patch exceeds maximum lift thickness, extend with aggregate as recommended by manufacturer.

(c) Make batches small enough to assure placement before binder sets.

(d) For all hand, trowel placed vertical and overhead repair areas, apply repair material in layers as recommended by the manufacturer not exceeding maximum lift thickness. Work and press mortar onto the prepared substrate surfaces to ensure bond. For repair areas that require multiple lifts, the top surface of each lift must be roughened to create a mechanical bond for the following layer of repair material. All layers for each patch shall be placed on the same day. There shall be no cold joints

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in the field of the repair. Use vibratory floats, plates, or hand tampers to consolidate the patching material layers. Level each layer and screed the final surface unless a built-up section is required to maintain 1 inch minimum concrete cover. Remove excess patching material on the adjacent surfaces before it hardens.

(e) Finish: Finish all patch work to match existing surfaces in texture and appearance or as otherwise directed by the State's representative. Do not feather edge repair material onto adjacent surfaces.

(f) Curing:

(i) Immediately after the final layer of repair material has been placed and finished, curing shall begin.

(ii) Cure according to the manufacturer's published literature for the repair mortar product used and per the work plan submitted in accordance with Section 680.03(A)(2)(e).

(7) Field Quality Control:

(a) Sampling: As soon as the repair materials are batched, sample each batch for testing by an independent testing laboratory. Clearly identify each sample by description of patch material, batch number, intended repair location and quantity batched.

(b) Testing: Perform compressive strength tests on samples by an independent testing laboratory. If the compressive strength test results fail to meet the specified requirements after two tests, the repairs made using the batched material represented by the samples tested shall be rejected. Areas of rejected repairs shall be removed, replaced and re-tested until acceptable at no additional cost to the State. Submit a copy of the test results to the State's representative.

(c) Special Inspection:

(i) The State's representative will examine the repair materials at the job site to verify that the materials used at the jobsite are the selected and approved materials referenced in the test results of design mixes or certificates of compliance.

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(ii) The State's representative will examine the surface preparations, mixing, application and curing procedures of the repair materials to determine conformance with the requirements specified.

(d) In-Place Test of Repairs:

(i) The State's representative, utilizing a 2-pound hammer, will test all completed concrete spall repairs to locate hollow or ringing sounding areas. A hollow sound generally will indicate that either the repair material has not completely filled the space from which the damaged concrete was removed or that it has not adequately bonded to the concrete substrate.

(ii) The Contractor shall remove the repair material from those hollow or ringing sounding areas, prepare the surfaces of the exposed reinforcing bars and the sound concrete substrate, if necessary form and then place, cure and finish the new repair materials at no additional cost to the State. Upon completion, the repairs will be retested by the State's representative.

(8) Appearance. The repaired concrete surfaces shall match the texture of the adjacent concrete surfaces. Surfaces not meeting the requirements of the Contract Documents must be brought into compliance using means accepted by the Engineer.

(9) Protection of Completed Rehabilitation Work. Do not allow construction loads to exceed the loads that a structural member or structure is safely capable of supporting without damage. Provide supplemental support if construction loads are expected to exceed safe load capacity. Protect repaired and adjacent areas from damage by construction traffic, equipment, and materials. During the curing period, protect repair materials from damage by mechanical disturbances, including load-induced stresses, shock, and vibration. Protect repair materials from environmental damage by weather events during the length of the curing period.

(10) Cleaning:

(a) Surfaces Not Involved in the Repairs: Adjacent surfaces damaged by staining left by concrete work, or other concrete materials shall be completely restored to original condition with respect to color and texture to the acceptance by the State's representative.

595 (b) Uncured polymer-modified repair mortar can be cleaned
596 from tools with water. Cured polymer- modified repair mortar
597 can only be removed mechanically.

598
599 (c) Removal:
600
601 (i) Remove debris and rubbish from the site daily.
602 Prevent debris and rubbish from entering the Stream.
603 Debris and rubbish shall not be allowed to accumulate
604 on the site. Debris shall be removed and transported in
605 a manner that will prevent spillage into the open
606 channel, onto the adjacent ground and streets.
607
608 (ii) Upon completion of the work, remove all
609 materials, tools, forming materials, catchments, work
610 platforms, refuse and debris generated by the work
611 specified in this section.
612

613 **680.04 Measurement.** The Engineer will measure Concrete Rehabilitation of
614 Spalls and Concrete Rehabilitation of Spalls within Tidal Zone indicated on the
615 contract plans by the square foot when paid as unit cost in the proposal schedule.
616

617 **680.05 Payment.** The Engineer will pay for the accepted quantities of Concrete
618 Rehabilitation of Spalls and Concrete Rehabilitation of Spalls within the Tidal Zone
619 at the contract unit cost price, complete in place.
620

621 The payment will be full compensation for chipping, removing and disposing of
622 defective concrete found within the limits of the spall and patch repair work; locating
623 existing reinforcing steel bars, extending the probing to beyond the end of corrosion
624 and removing concrete around the corroded reinforcing steel; cleaning and
625 preparing concrete surfaces; removing corrosion damage from reinforcing steel;
626 replacing any necessary reinforcing steel; coating the reinforcing steel and prepared
627 concrete surfaces with a corrosion inhibitor epoxy bonding agent; providing forms
628 and falsework; placing, finishing and curing concrete repair materials; repairing
629 defects; sampling and testing concrete; for clean-up; and for furnishing equipment,
630 tools, labor, materials and other incidentals necessary to complete the work.
631

632	Pay Item	Pay Unit
633		
634		
635	Concrete Rehabilitation of Spalls	Square Foot
636		
637	Concrete Rehabilitation of Spalls within Tidal Zone	Square Foot
638		
639		

640 **END OF SECTION 680”**

1 Make the following Section a part of the Standard Specifications:
2

3 **“SECTION 681 – CRACK REPAIR BY EPOXY INJECTION**
4

5 **681.01 Description.** This section covers the repair of cracks in concrete by
6 pressure-injecting epoxy into cracks that intersect at least one accessible surface of
7 the concrete or masonry member. It does not cover the repair of delaminations
8 where the intersection of the cracked concrete with the surface of the concrete
9 member is not accessible nor can be made accessible.
10

11 **681.02 Materials.**
12

13 (A) **Surface Seal.** Use the materials to seal the crack faces that have the
14 strength and adhesion to contain the injection adhesive in the crack during the
15 injection process and while the injection adhesive cures, and surface sealer
16 shall be removed such that it does not leave a residue or damage the surfaces.
17

18 (B) **Injection Adhesives**
19

20 (1) Injection adhesives for cracks that can be sealed on all faces –
21 Use an adhesive that conforms to the requirements of ASTM C 881/C
22 881M, Type IV, Grade 1, and any additional requirements defined in the
23 Project Specifications.
24

25 (2) Injection adhesives for cracks that cannot be sealed of all faces – If
26 all faces of the crack cannot be reached to apply a surface seal, use an
27 injection adhesive that conforms to the requirements of ASTM C 881/C
28 881M, Type IV, Grades 1, 2, or 3, and has a viscosity that will allow it to
29 achieve and maintain the penetration requirements specified in ACI
30 503.7.
31

32 **681.03 Construction.** All work shall be performed in accordance with ACI 503.7.
33

34 **681.04 Measurement.** The Engineer will measure the Crack Repair by Epoxy
35 Injection or Crack Repair by Epoxy Injection within the Tidal Zone by linear foot
36 when contracted on a unit cost basis, complete in place. Surface preparation,
37 installation of injection ports, removal of injection ports and cleaning of the final
38 surface are considered incidental to the epoxy injection crack repair and will not be
39 paid for separately.
40

41 **681.05 Payment.** The Engineer will pay for the accepted quantities of Crack
42 Repair by Epoxy Injection and Crack Repair by Epoxy Injection within the Tidal Zone
43 by contract unit cost price.
44

45 The Engineer will pay for the following pay item when included in the proposal
46 schedule:

47	Pay Item	Pay Unit
48		
49		
50	Crack Repair by Epoxy Injection	Linear Foot
51		
52	Crack Repair by Epoxy Injection within Tidal Zone	Linear Foot
53		

54
55

END OF SECTION 681”

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.0100	Installation, Maintenance, Monitoring, and Removal of BMP	L.S.	L.S.	L.S.	\$ _____
209.0200	Additional Water Pollution, Dust, and Erosion Control	F.A	F.A	F.A	\$ <u>50,000.00</u>
602.0100	Reinforcing Steel for Concrete Repairs	660	LBS	\$ _____	\$ _____
602.0200	Reinforcing Steel for Concrete Repairs within Tidal Zone	102	LBS	\$ _____	\$ _____
636.0100	Additional E-Construction Programs, Additional Licenses or Additional Equipment	F.A	F.A	F.A	\$ <u>20,000.00</u>
643.0100	Maintenance of Existing Landscape Areas	F.A	F.A	F.A	\$ <u>50,000.00</u>
645.0100	Traffic Control	L.S.	L.S.	L.S.	\$ _____
645.0200	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	F.A	F.A	F.A	\$ <u>50,000.00</u>
648.0100	Field-Posted Drawings	L.S.	L.S.	L.S.	\$ _____
671.0100	Protection of Endangered Species	F.A	F.A	F.A	\$ <u>20,000.00</u>
680.0100	Concrete Rehabilitation of Spalls	264	SF	\$ _____	\$ _____
680.0200	Concrete Rehabilitation of Spalls within Tidal Zone	29	SF	\$ _____	\$ _____
681.0100	Crack Repair by Epoxy Injection	10	LF	\$ _____	\$ _____

NH-092-1(032)

Addendum No. 2

r5/6/26

P-8

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
681.0200	Crack Repair by Epoxy Injection within Tidal Zone	14	LF	\$ _____	\$ _____
699.0100	Mobilization (Not to Exceed 6 Percent of the Sum of All Items Excluding the Bid Price of this Item)	L.S.	L.S.	L.S.	\$ _____

Total Amount for Comparison of Bids..... \$ _____

PROPOSAL SCHEDULE NOTE:

1. Bids shall include all Federal, State, County and other applicable taxes and fees.
 2. The TOTAL AMOUNT FOR COMPARISON OF BIDS shall be used to determine the lowest responsible bidder.
 3. Bidders shall complete all unit prices and amounts. Failure to do so shall be grounds for rejection of bid.
 4. If a discrepancy occurs between unit bid price and the bid price, the unit bid price shall govern.
 5. **Bidders shall submit and upload the complete proposal to HlePRO prior to the bid opening date and time. Proposals received after said due date and time shall not be considered. Any additional support documents explicitly designated as confidential and/or proprietary shall be uploaded as a separate file to HlePRO. Bidders shall not include confidential and/or proprietary documents with the proposal. The record of each bidder and respective bid shall be open to public inspection. Original (wet ink, hard copy) proposal documents are not required to be submitted. Contract award shall be based on evaluation of proposals submitted and uploaded to HlePRO.**
- FAILURE TO UPLOAD THE COMPLETE PROPOSAL TO HlePRO SHALL BE GROUNDS FOR REJECTION OF THE BID.**
 If there is a conflict between the specification document and the HlePRO solicitation, the specifications shall govern and control, unless otherwise specified.

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INDEX OF STRUCTURAL DRAWINGS

Sheet No.	Description
S-1	STRUCTURAL GENERAL NOTES, INDEX OF STRUCTURAL DRAWINGS
S-2	STRUCTURAL GENERAL NOTES AND ABBREVIATIONS
S-3	REPAIR DETAILS
S-4	REPAIR DETAILS
S-5	DAMAGE SCHEDULE
S-6	OVERALL SLIP COVER #4 BRIDGE PLAN
S-7	SLIP COVER #4 BRIDGE DECK PLAN
S-8	SLIP COVER #4 BRIDGE SOFFIT PLAN
S-9	SLIP COVER #4 BRIDGE ELEVATION
S-10	BENT 1 BRIDGE SECTIONS
S-11	BENT 2 BRIDGE SECTIONS
S-12	BENT 3 BRIDGE SECTIONS
S-13	BENT 4 BRIDGE SECTIONS

GENERAL STRUCTURAL NOTES:

DESIGN SPECIFICATIONS:

AASHTO LRFD Bridge Design Specifications, 9th Edition, 2020, including subsequent interim revisions, and as Modified by State of Hawaii, Highways Division Design Criteria for Bridges and Structures.

GENERAL SPECIFICATIONS:

The State of Hawaii 2005 Standard Specifications for Road and Bridge Construction, and Special Provisions Prepared for This Project.

MATERIALS:

- Existing reinforced concrete: f'c-3000 psi, unless noted otherwise.
- New Reinforcing steel: ASTM A615, Grade 60 unless noted otherwise.
- Reinforcing steel to be welded: ASTM A706, Grade 60 unless noted otherwise.
- All welding shall be in accordance with the current edition of reinforcing steel welding code per Reinforcing Steel Notes on S-2.
- Provide shrinkage reducing admixture and migrating corrosion inhibiting admixture to concrete for bridge decks, structural concrete and bridge railings. See Special Provision for requirements.
- Concrete repair material for the rehabilitation of damaged or deteriorated structural concrete indicated: f'c-6,000 psi, see Section 680 of the Special Provisions.

GENERAL:

- All items noted incidental will not be paid for separately.
- Standard detail drawings refer to all structures in general, except for modifications as may be required for special conditions. For such modifications, refer to the corresponding detailed drawings.
- Edge of existing concrete to remain shall be square cut by sawcutting to a minimum depth of 3/4" or up to the depth of existing reinforcement.

CONSTRUCTION NOTES:

- Materials and workmanship shall conform to the State of Hawaii 2005 Standard Specification for Road and Bridge Construction, and Special Provisions Prepared for This Project, Project Drawings, and Project Specific Permit Requirements. Per Hawaii Standard Specification Subsection 106J1, the Contractor shall submit a certification of material origin to meet the requirement for the use of American-Made materials.
- In general, top of concrete deck slab shall be constructed to follow the roadway vertical and horizontal curves.
- Except as noted otherwise, all vertical dimensions are measured plumb.
- Information for existing bridge has been prepared based on record drawings. The Contractor shall verify all site conditions and not rely upon these plans for utilities, stream location, or other existing features, etc. Conditions may differ from those shown.
- Record drawings are available for review at the State of Hawaii Department of Transportation, Highways Division.
- The Contractor shall verify the location of all utility lines and notify the respective owners before commencing the work. Any damage to utility lines caused by the Contractor shall be replaced at his expense and at no cost to the State.
- For concrete finish, see Standard Specifications.
- Unless noted otherwise, all exposed concrete edges shall be chamfered 3/4"x3/4".
- Contractor to take adequate measures to protect the public and structures during construction. Such measures shall include but not be limited to falsework, formwork, bracing, loads for construction equipment, wind forces, stream flow, seismic forces, and others.
- No debris shall be allowed to fall onto roadway or into water due to construction operations. Submit debris containment plan to the Engineer for review and approval prior to starting the work.
- Contractor to be solely responsible for acquiring required construction related permits from the various government agencies required to complete the work.
- Contractor shall take precautions to prevent damage to existing reinforcing steel that is to be incorporated into the new work.
- Contractor shall close the lane for live vehicles, including contractor's vehicles, passing directly over damage areas on the superstructure, bearings, deck, and girders during repair unless otherwise noted by repair material manufacturer. Contractor shall take precautions to review manufacturer's repair mortar specifications to allow the allotted time to set with proper strength prior to allowing vehicular traffic to resume directly above.
- Contractor shall coordinate work activities and lane closures with HART Contractor. Contractor shall apply Street Usage Permit from HART. HDOT Point of Contact (POC) for the rail project is Karley Halsted (khalsted@sstm.com)
- Contractor shall provide oversight for quality control of work. The Contractor shall submit copies of all measurements and test results to the Engineer on a weekly basis.
- Contractor shall verify the presence of existing utilities which may conflict with construction activities and shall coordinate with utility companies for temporary relocation as necessary. All costs associated with the temporary relocation shall be borne by the Contractor.
- The Contractor shall allow the Engineer access to all materials that will be used in the project for inspection and/or testing (this includes but is not limited to access to contractor or subcontractor's base yards, manufacturers' yards, production plants, and separate storage areas). The Engineer reserves the right to reject any material for which access or inspection is not allowed.
- The Contractor shall inform the Engineer of all scheduled work to facilitate inspection per HDOT Standard Specifications Subsection 105J1 - Progress Schedules and 108.07 - Weekly Meetings. Failure to inform the Engineer shall result in withholding payment or the work being considered unauthorized and subject to Subsection 105J2 - Removal of Non-Conforming and Unauthorized Work.
- The Contractor shall submit repair work plans for review and approval by HDOT. These plans shall convey means, methods, and materials for all repair work. These shall include calculations stamped by a Hawaii licensed Engineer for items such as shoring, rafts, work platforms, or any temporary structures supported from the existing bridge.

ESTIMATED QUANTITIES SUMMARY TABLE

ITEM No.	ITEM	QTY	UNIT
602.0100	Reinforcing Steel for Concrete Repairs	660	LBS
602.0200	Reinforcing Steel for Concrete Repairs within Tidal Zone	102	LBS
680.0100	Concrete Rehabilitation of Spalls	264	SF
680.0200	Concrete Rehabilitation of Spalls within Tidal Zone	29	SF
681.0100	Crack Repair by Epoxy Injection	10	LF
681.0200	Concrete Rehabilitation of Cracks within Tidal Zone	14	LF

NOTES:

- Quantity listed in the schedule above were determined at the time of investigation. Contractor must verify all quantities and locations. Notify the Engineer of any discrepancies.
- Reinforcing steel quantities have been estimated based on the condition observed during the inspections. Immediately notify the Engineer on verified quantities prior to commencing of work.
- See "BRIDGE DAMAGE SCHEDULE" on sheet S-5 for breakdown of damages.

4/29/26 Stamped and Signed

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**STRUCTURAL GENERAL NOTES,
INDEX OF STRUCTURAL DRAWINGS**

NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal-Aid Project No. NH-092-1032

Scale: None Date: Jan 2026

SHEET No. S-1 OF 13 SHEETS



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

04/30/26
SIGNATURE DATE

EXPIRATION DATE OF THE LICENSE

W:_STRUCTURAL PROJECTS\021-156076-001-HHWS SLIP COVER # REHAB CONTRACT BIDS\03 CAD\15-1 GEN NOTES - INDEX - QUANTITIES 4/29/2026 1:14 PM ANDRER

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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GENERAL STRUCTURAL NOTES (Cont.):

REINFORCING STEEL:

1. Reinforcing splices shall be made only where indicated on the drawings.
2. All reinforcing bars, anchor bolts, dowels and other embedded items are to be securely tied in place before concrete pour.
3. All reinforcing bar bends shall be made cold.
4. Reinforcement shall be detailed in accordance with AASHTO LRFD Bridge Design Specifications, 9th Edition, 2020, including subsequent interim revisions, unless otherwise noted.
5. Welding of reinforcing steel shall conform to the latest edition of AWS D1.4 "AWS Structural Welding Code-Reinforcing Steel" of the American Welding Society. Deformed reinforcing bars shall conform to ASTM A706, Grade 60.
6. Unless otherwise noted, the cover measured from the surface of the concrete to the face of any reinforcing bars shall be as follows:
 (a) Formed surfaces exposed to earth and weather. 2" clear
 (b) Direct exposure to salt water or salt spray 4" clear
 (c) All others. 2" clear
7. Minimum clear distance between parallel bars shall be 1 1/2 times the diameter of the bar, but in no case shall the clear distance between parallel bars be less than 1 1/2 times the maximum size of the coarse aggregate, or 1 1/2 inches.
8. All dimensions relating to reinforcing bars (e.g., spacing of bars, etc.) are to center of bars, unless otherwise noted.
9. Reinforcing bars shall be securely tied at all intersections and lap spliced except where the spacing of the intersections is less than 12 inches in each direction, in which case alternate intersections shall be tied.
10. Underwater welding of reinforced steel shall conform to the latest edition of AWS D3.6M Underwater Welding Code.

ABBREVIATIONS:

<p>A</p> <p>Abut. Avenue Az. Azimuth</p> <p>B</p> <p>Bof. Bottom Base Line Brig. Bearing</p> <p>C</p> <p>C.L. Centerline Clr. Clear Conc. Concrete Cont. Continuous CR Crack Repair CLSM Controlled Low-Strength Material</p> <p>D</p> <p>Def. Detail DEMO. Demolition Dia. Diameter</p> <p>E</p> <p>Ea. Each E.F. Each Face Exist. Existing (E) Existing</p> <p>F</p> <p>F.A. Force Account FT. Feet</p> <p>G</p> <p>Galv. Galvanized</p> <p>H</p> <p>Horiz. Horizontal Hwy. Highway</p> <p>I</p> <p>I.F. Inside Face I.T.F. Inside Top Face</p> <p>L</p> <p>LF Linear Feet</p> <p>M</p> <p>Max. Maximum Min. Minimum MP Milepost</p> <p>N</p> <p>N North</p> <p>O</p> <p>O.C. On Center</p> <p>P</p> <p>P.C. Point of Curvature P.C.C. Point of Compound Curvature P.T. Point of Tangency</p>	<p>R</p> <p>R Radius Reinf. Reinforced, Reinforcement RENO. Renovation</p> <p>S</p> <p>S. South SF Square Feet Sim. Similar Sp. Span SR Spall Repair Sta. Station Std. Standard St. Street</p> <p>T</p> <p>T.F. Top Face Thk. Thick Typ. Typical</p> <p>U</p> <p>U.O.N. Unless Otherwise Noted</p> <p>V</p> <p>Vert. Vertical</p>
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W:\STRUCTURAL PROJECTS\2021\15016.DWG DOT-HWY SUP COVER 4 REBAR CONTRACT DOCS\DO CAD\15-2 GEN NOTES - ABBREVIATIONS 4/29/2026 1:14 PM AKOGER



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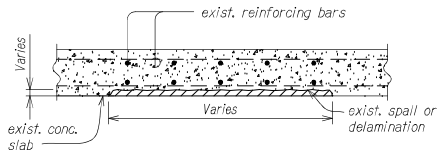
Renée L. Ishiyama
SIGNATURE 04/30/26
EXPIRATION DATE OF THE LICENSE

4/29/26	2	Stamped and Signed
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STRUCTURAL GENERAL NOTES AND ABBREVIATIONS NIMITZ HIGHWAY SLIP COVER #4, HONOLULU HARBOR BRIDGE REHABILITATION Federal Aid Project No. NH-092-1(032) Scale: None Date: Jan 2026		
SHEET No. S-2 OF 13 SHEETS		

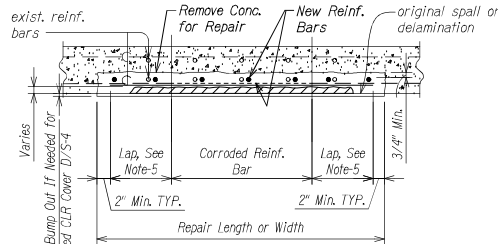
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.17	27

CONCRETE REPAIR NOTES:

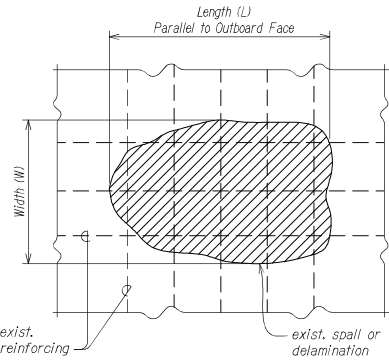
- Both spalls and delaminations are called out as "Spalls" on the plans, no distinction is made since repair is the same with exception that delamination requires removal of loose material prior to repair.
- Notify the Engineer when reinforcing steel requires replacement.
- Supplement corroded reinforcing steel per Sheet S-4 unless welding detail A1, A2 or A3 from A/S-4 is being used. Corroded reinforcing bars are those after cleaning, have the bar diameter reduced to less than the allowable bar size chart shown on Sheet S-4.
- The requirements below shall be followed during a weld lap splice when new reinforcing bars are different grade than existing reinforcing bars:
 - The Contractor is to select the electrode designed for higher strength steel to ensure a strong weld joint.
 - The Contractor is to perform chemical analysis testing to determine the carbon equivalent (CE) value of the existing rebar. The carbon equivalent (CE) value must be less than 0.55 for the existing reinforcing bar to be considered weldable. The Contractor shall submit testing results for acceptance to the Engineer. If welding is not found to be feasible, the Contractor must use contact lap splice as defined in Note 5.
 - The Contractor is to conform to appropriate testing, standards, and welding procedures from the latest edition of AWS D1.4 "AWS Structural Welding Code - Reinforced Steel".
- Remove and replace corroded reinforcing bar with new reinforcing bar matching the original bar size with lap weld splice using length per Sheet S-4. Contractor may use alternative contact lap splice with length equal to 58 bar diameters. If contact lap splice is chosen by Contractor, it shall be used at no extra cost for the increased concrete repair areas to provide for required lap splice lengths in this construction method.
- When added reinforcing is required the repair length (Lr) or width (Wr) should equal to the corroded length of reinforcing bar, plus splice length and 2" minimum on each side. In no case shall (Lr) and (Wr) be less than the spall length (L) or spall width (W), respectively.
- The Contractor shall confirm the damaged areas shown on the plans by visual examination and sounding methods in accordance with ASTM D4580. The roadway plans shall be used as a guide to illustrate the general location of the area to be repaired. Mark the limits to be repaired for approval by the Engineer prior to starting prior to starting removal of defective concrete. The Engineer may direct the Contractor to do additional repairs outside of the marked priority areas.
- Removal of damaged concrete and preparation of concrete and rebar to receive repair materials is incidental to the various repairs. Repair material and procedures shall be accepted by the Engineer before use.
- The Contractor shall protect the public and environment from dust pollution and other damages resulting from the blasting, chipping and drilling operations. The Contractor shall be aware of and follow all State, Federal and county environmental regulations and provide containment to prevent abrasives, dust and debris from dispersing into surrounding areas and into the stream or stream bank. The Contractor shall submit the method of containing and controlling pollution for acceptance to the Engineer.
- Spall repair detail shall be used as reference when existing bars do not require replacement from corrosion. Spall repair should still follow the detail requirements:
 - It is required to chip 3/4" minimum past existing reinforcing for spall repair depth.
 - Sufficient clear cover shall still be provided per AASHTO Standards. These covers are shown within Reinforcing Steel general notes on Sheet S-2. Concrete bump shall be used per Detail D/S-4 if the existing clear cover is not sufficient for code requirements as noted per Sheet S-2 Reinforcing Steel Note 5.
 - The repair length or width should equal to spall measurement plus 2" minimum on each side.
- The Contractor shall retain a third party certified welding inspector to be present during all welding operations. Visual inspection shall be performed on all welds with additional Liquid Penetrant Dye Testing and Magnetic Particle Testing on all reinforcing bars larger than #5. Any welds that do not pass the inspection/testing will not be accepted. The cost of the third party inspector shall be considered incidental to the reinforcing repair work and will not be paid for separately.



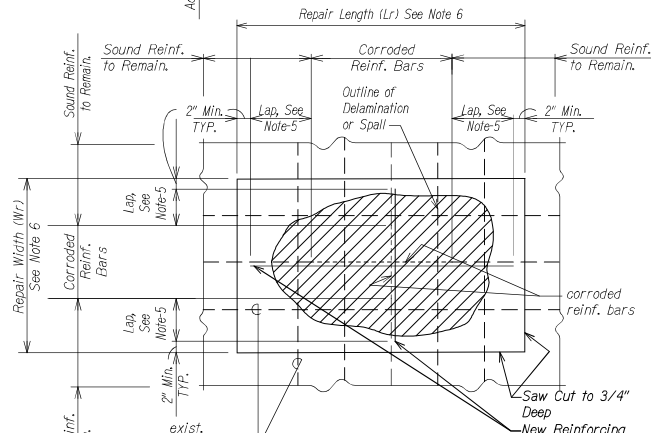
SECTION



SECTION



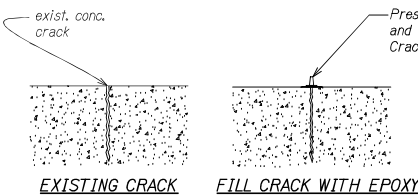
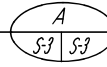
BOTTOM VIEW



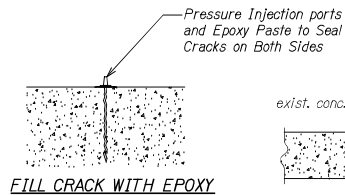
BOTTOM VIEW

SPALL REPAIR DETAILS

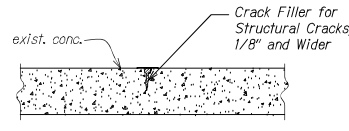
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EXISTING CRACK



FILL CRACK WITH EPOXY



CRACKS (EQUAL TO OR WIDER THAN 1/4")

CRACKS (1/32" TO LESS THAN 1/4" WIDE)

NOTES:

- Cracks may be horizontal, vertical or overhead.
- Epoxy mortars and epoxy compounds shall conform to ASTM C881/C881M, Type IV, Class C, Grade 1 or 3. Surface shall be free of standing water, dust, and debris. Follow manufacturer's instructions for application.

REPAIR NOTES:

- The Contractor shall be aware of extensive repair requirements in Section 680 Defective Concrete Repairs and Section 681 Crack Repair of the Special Provisions for the rehabilitation of damaged or deteriorated structural concrete for the surface of bridge railings, sidewalks, and surfaces indicated.

TYP. CRACK REPAIR DETAILS

Scale: NTS



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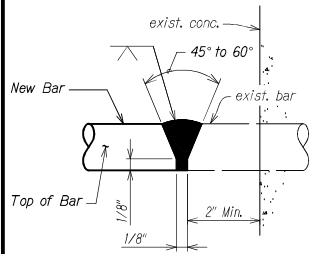
Signature: Remy L. Ishiyama
Date: 04/30/26
Signature

EXPIRATION DATE OF THE LICENSE

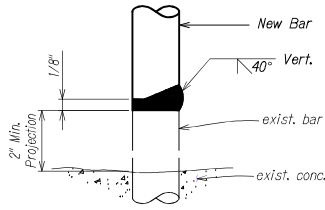
4/29/26	Stamped and Signed
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
REPAIR DETAILS	
NIMITZ HIGHWAY SLIP COVER #4, HONOLULU HARBOR BRIDGE REHABILITATION Federal-Aid Project No. NH-092-1(032)	
Scale: NTS	Date: Jan 2026
SHEET No. S-3 OF 13 SHEETS	

W:_STRUCTURAL PROJECTS\021-156105-01-156105-01-HWY SUP COVER 4 REBAR CONTRACT BIDDING\03 CAD\15-3 REBAR DETAILS.DWG 4/29/2026 1:45 PM ANOCHER

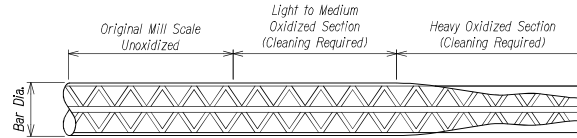
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.18	27



A1 HORIZONTAL



A2 VERTICAL



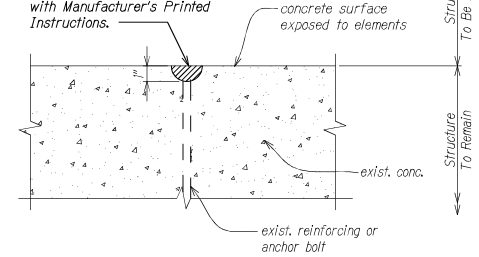
Allowable Bar Size Chart

Existing Bar Size	Bar Size	Minimum Diameter (Inch)
3/8"φ	#3	5/16"φ
1/2"φ	#4	7/16"φ
5/8"φ	#5	1/2"φ
3/4"φ	#6	5/8"φ
7/8"φ	#7	3/4"φ
1"φ	#8	7/8"φ
1-1/8"φ	#9	1"φ
1-1/4"φ	#10	1 1/8"φ

NOTES:

1. Remove all heavy corrosion and scale from reinforcing bars.
2. If reinforcing bar size, after cleaning, is less than the minimum shown in allowable bar size chart, repair by adding additional reinforcing steel per detail A/S-3.

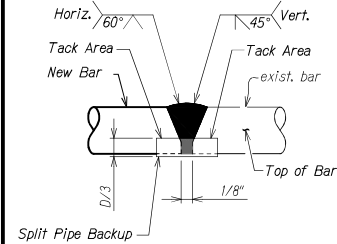
Chip Back Existing Reinforcing or Anchor Bolt 1" and Patch with 2-Component Epoxy. Epoxy Shall be Mixed, Applied and Cured in Strict Accordance with Manufacturer's Printed Instructions.



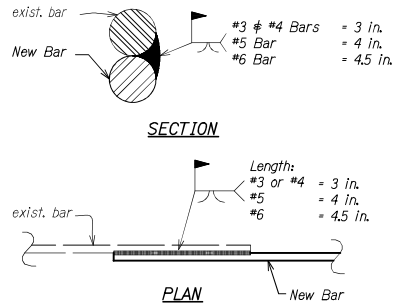
Patching ends of Reinforcing Steel or Anchor Bolt Shall be Considered Incidental to Concrete.

NOTES:

Demolition of existing members in the way of new construction shall be executed in a manner such to minimize damage to the portions of the members to remain outside the limits of demolition, where not incorporated into new work.



A3 HORIZONTAL AND VERTICAL



A4 LAP WELD SPlice

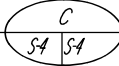
TYPICAL ALLOWABLE BAR DIAMETER CHART

Scale: NTS



DEMOLITION DETAILS

Scale: NTS

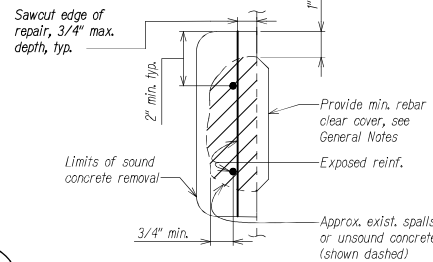


REINFORCING WELDING NOTES:

1. Use Detail A1 and A2 for #9 bar and larger.
2. Use Detail A3 for #7 bar and #8 bar.
3. Use Detail A4 for #6 bar and smaller.
4. Chip, grind, or gouge to sound metal before welding.
5. Use E70 electrodes for stirrups, E90 electrodes for all others. If new reinforcing bars are a different grade than existing reinforcing bars, the Contractor is to select the electrode designed for higher strength steel.
6. See AWS D1.4 for welding process preheating, cooling controls, and other details, for welding existing rebar which is not ASTM A706.

TYPICAL WELDED SPlice REINFORCING BAR DETAIL

Scale: NTS



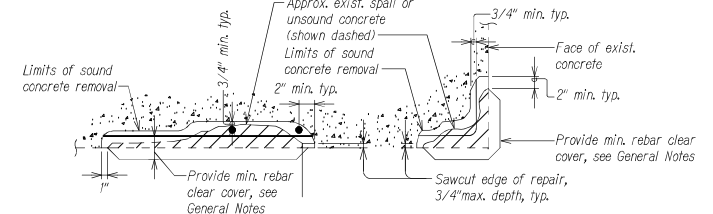
at VERTICAL SURFACE

NOTES:

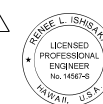
Concrete bump out is only required for repair sections that do not meet current code cl. covers. Reference Note 6 of Reinforcing Steel General Notes on Sheet S-2 for typical AASHTO cl. covers.

TYPICAL CONCRETE REPAIRS

Scale: NTS



at INVERTED SURFACE and CORNERS



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[Signature] 04/30/26
SIGNATURE EXPIRATION DATE OF THE LICENSE

4/29/26	2 Stamped and Signed
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REPAIR DETAILS

**NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal-Aid Project No. NH-092-1(032)**
Scale: NTS Date: Jan 2026

SHEET No. S-4 OF 13 SHEETS

H:_STRUCTURAL PROJECTS\021-156-016 DOT-HHWS SLIP COVER - REBAR CONTRACT BOSS(S) CAD(S) - REPAIR DETAILS.DWG 4/29/2026 11:11 PM ANDRER

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.19	27

BRIDGE DAMAGE SCHEDULE

MARK	SPALL AREA (SF)	SPALL DEPTH (IN)	CRACK LENGTH (LF)	CRACK WIDTH (IN)	UNDER HIGH WATER	REMARKS
SR01	17	4.0	-	-	NO	SPALL WITH EXPOSED REBAR WITH CONCURRENT DELAMINATION ON EDGE BEAM
SR02	9	3.0	-	-	NO	SPALL WITH EXPOSED REBAR WITH CONCURRENT DELAMINATION ON EDGE BEAM
SR03	40	4.0	-	-	NO	SPALL WITH EXPOSED REBAR CONCURRENT DELAMINATION ON EDGE BEAM
SR04	72	2.0	-	-	NO	SPALL WITH EXPOSED REBAR ON DECK SOFFIT
SR05	20	3.0	-	-	NO	SPALL WITH EXPOSED REBAR ON DECK SOFFIT
SR06	3	1.5	-	-	NO	SPALL WITH EXPOSED REBAR ON DECK SOFFIT
SR07	24	3.0	-	-	NO	SPALL WITH EXPOSED REBAR
SR08	10	4.0	-	-	NO	SPALL WITH EXPOSED REBAR WITH CONCURRENT DELAMINATION
SR09	1	-	-	-	NO	DELAMINATION
SR10	21	6.0	-	-	NO	SPALL WITH EXPOSED REBAR WITH CONCURRENT DELAMINATION
SR11	-	-	2.50	0.06	YES	CRACK
SR12	2	-	-	-	YES	DELAMINATION
SR13	-	-	1.25	0.06	YES	CRACK
SR14	2	-	-	-	YES	DELAMINATION
SR15	22	10.0	-	-	NO	SPALL WITH EXPOSED REBAR WITH CONCURRENT DELAMINATION
SR16	12	7.0	-	-	NO	SPALL WITH EXPOSED REBAR WITH CONCURRENT DELAMINATION
SR17	2	-	-	-	YES	DELAMINATION
SR18	1	-	-	-	YES	DELAMINATION
SR19	-	-	3.75	0.50	YES	CRACK
SR20	2	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR21	1	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR22	2	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR23	-	-	1.75	0.25	YES	CRACK
SR24	8	12.0	-	-	NO	SPALL WITH EXPOSED REBAR
SR25	2	-	-	-	NO	DELAMINATION
SR26	1	-	-	-	YES	DELAMINATION
SR27	1	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR28	1	-	-	-	NO	PATCHED CONCRETE WITH SEVERE RUST STAINING.
SR29	1	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR30	1	-	-	-	YES	DELAMINATION
SR31	3	9.0	-	-	YES	SPALL WITH EXPOSED REBAR
SR32	2	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR33	1	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR34	-	-	5.00	-	NO	CRACK, 0.25" WIDE WITH RUST STAINING
SR35	2	1.5	-	-	NO	SPALL WITH EXPOSED REBAR
SR36	3	8.0	-	-	YES	SPALL
SR37	1	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR38	1	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR39	-	-	1.25	0.06	YES	CRACK WITH RUST STAINING
SR40	-	-	6.25	0.06	YES	CRACK WITH RUST STAINING
SR41	-	-	2.50	0.06	YES	CRACK WITH RUST STAINING
SR42	1	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING
SR43	1	-	-	-	YES	PATCHED CONCRETE WITH SEVERE RUST STAINING

NOTES:

- Quantities listed in the schedule above were determined at the time of investigation. Contractor must verify all quantities and location and report any discrepancies to the Engineer. Damage survey to be considered incidental to Item 680.0100 Concrete Rehabilitation of spalls and 681.0100 Crack Repair by Epoxy Injection and will not be paid separately.
- Reinforcing steel quantities have been estimated based on the condition observed during the inspections. Immediately notify the engineer on verified quantities if the contractor's damage survey has quantities different than the indicated damages prior to commencing of work.
- Delamination to be repaired same as spalls.
- Damages marked as concurrent indicate that there are multiple types of damages in the same location. Within these locations, dimensions are increased to cover both defects.
- Rust staining patches shall be treated as spall for repair methods and quantities.

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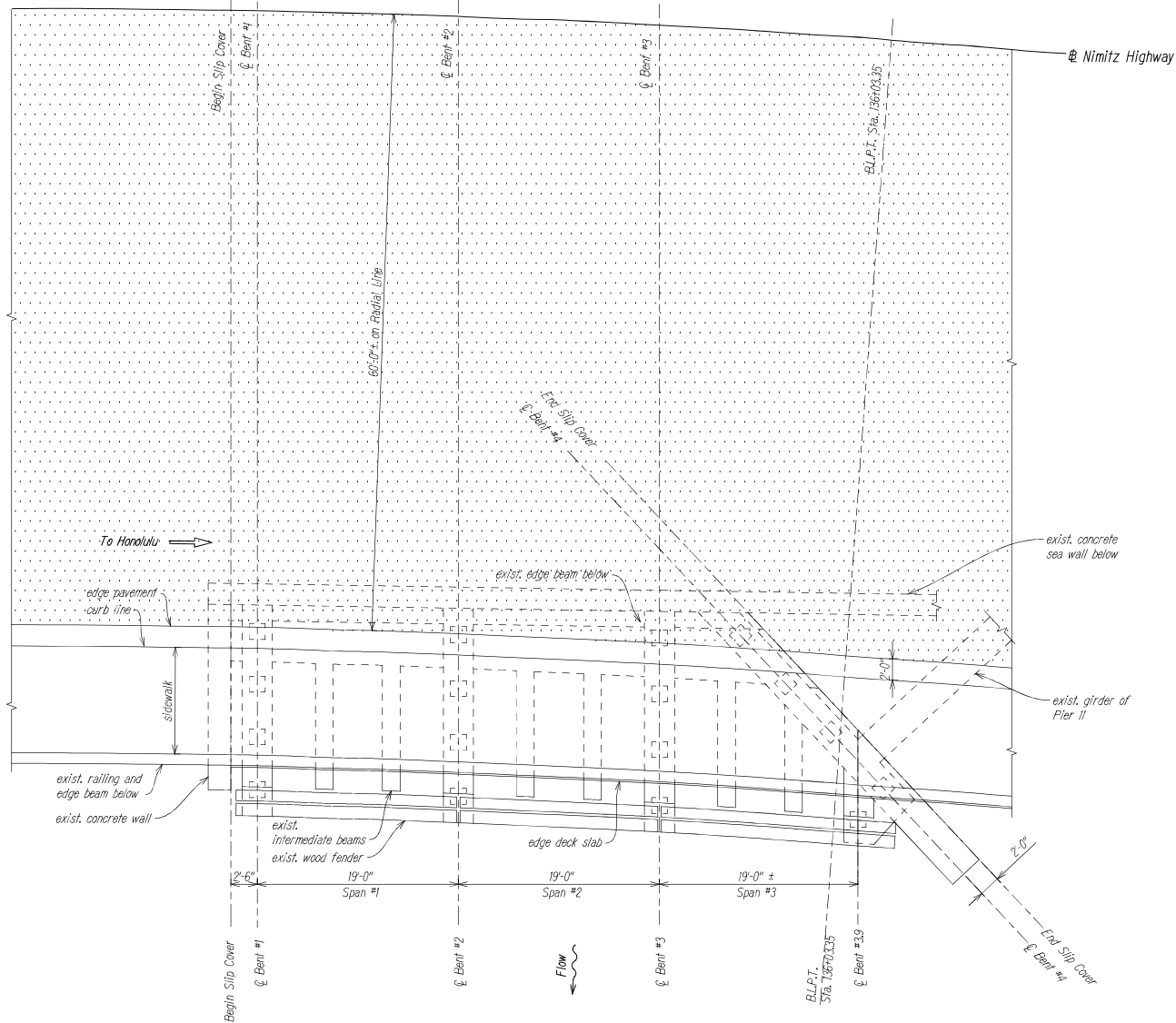
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Renee L. Ishiyama
SIGNATURE 04/30/26
EXPIRATION DATE OF THE LICENSE

4/29/26	2	Stamped and Signed
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DAMAGE SCHEDULE NIMITZ HIGHWAY SLIP COVER #4, HONOLULU HARBOR BRIDGE REHABILITATION Federal-Aid Project No. NH-092-1(032) Scale: NTS Date: Jan 2026		
SHEET No. S-5 OF 13 SHEETS		

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.20	27

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



- NOTES:**
- For general notes, abbreviations, and estimated quantities, see Sheets S-1 and S-2.
 - For repair details, see Sheet S-3 # S-4. For bridge damage schedule, see Sheet S-5.
 - See Civil Drawings for striping, signage, traffic control plan, lane closure and detour plans.
 - Sheet for reference purposes only, no damages on top surface of deck.
 - Dimensions and details are taken from record drawings. The Contractor shall verify all dimensions.

LEGEND:

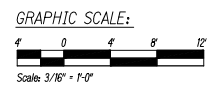
[Stippled Box] AC Wearing Surface

4/29/26	[Signature]	Stamped and Signed
DATE		REVISION



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Renee L. Ishiyama
SIGNATURE
04/30/26
EXPIRATION DATE OF THE LICENSE



OVERALL SLIP COVER #4 BRIDGE PLAN
Scale: 3/16" = 1'-0"



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**OVERALL SLIP COVER #4
BRIDGE PLAN**

**NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION**

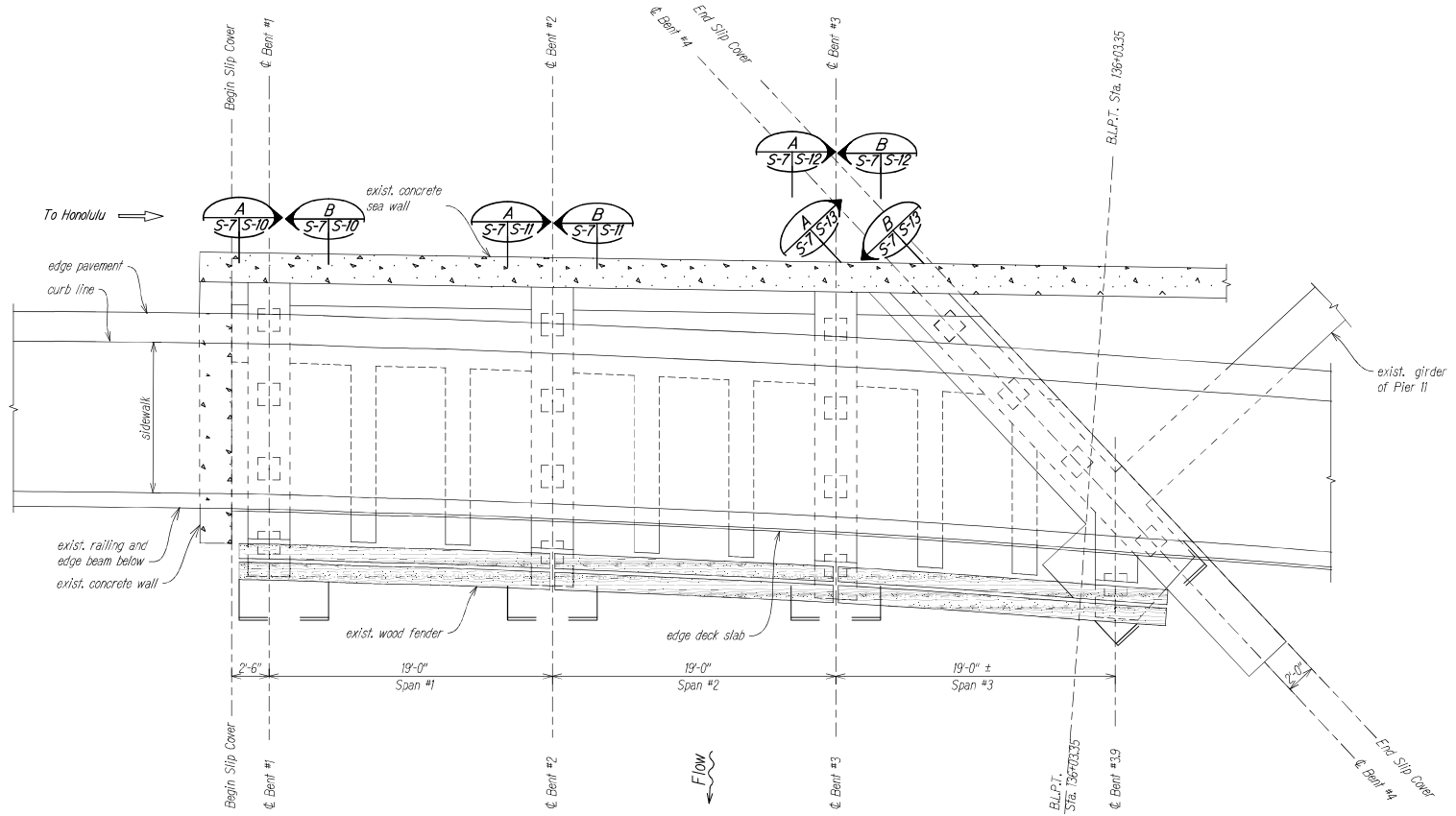
Federal Aid Project No. NH-092-1(032)
Scale: 3/16" = 1'-0" Date: Jan 2026

SHEET No. S-6 OF 13 SHEETS

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FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD. 2	27

TRUE NORTH
SCALE: 1/4" = 1'-0"



- NOTES:**
- For general notes, abbreviations, and estimated quantities, see Sheets S-1 and S-2.
 - For repair details, see Sheet S-3 & S-4. For bridge damage schedule, see Sheet S-5.
 - See Civil Drawings for striping, signage, traffic control plan, lane closure and detour plans.
 - Sheet for reference purposes only, no damages on top surface of deck.
 - Dimensions and details are taken from record drawings. The Contractor shall verify all dimensions.

- LEGEND:**
- Existing Wood Fender
 - Existing Concrete Sea Wall

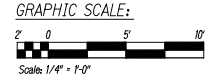
ENLARGED SLIP COVER #4 BRIDGE DECK PLAN
Scale: 1/4" = 1'-0"



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DATE	REVISION



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 04/30/26
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

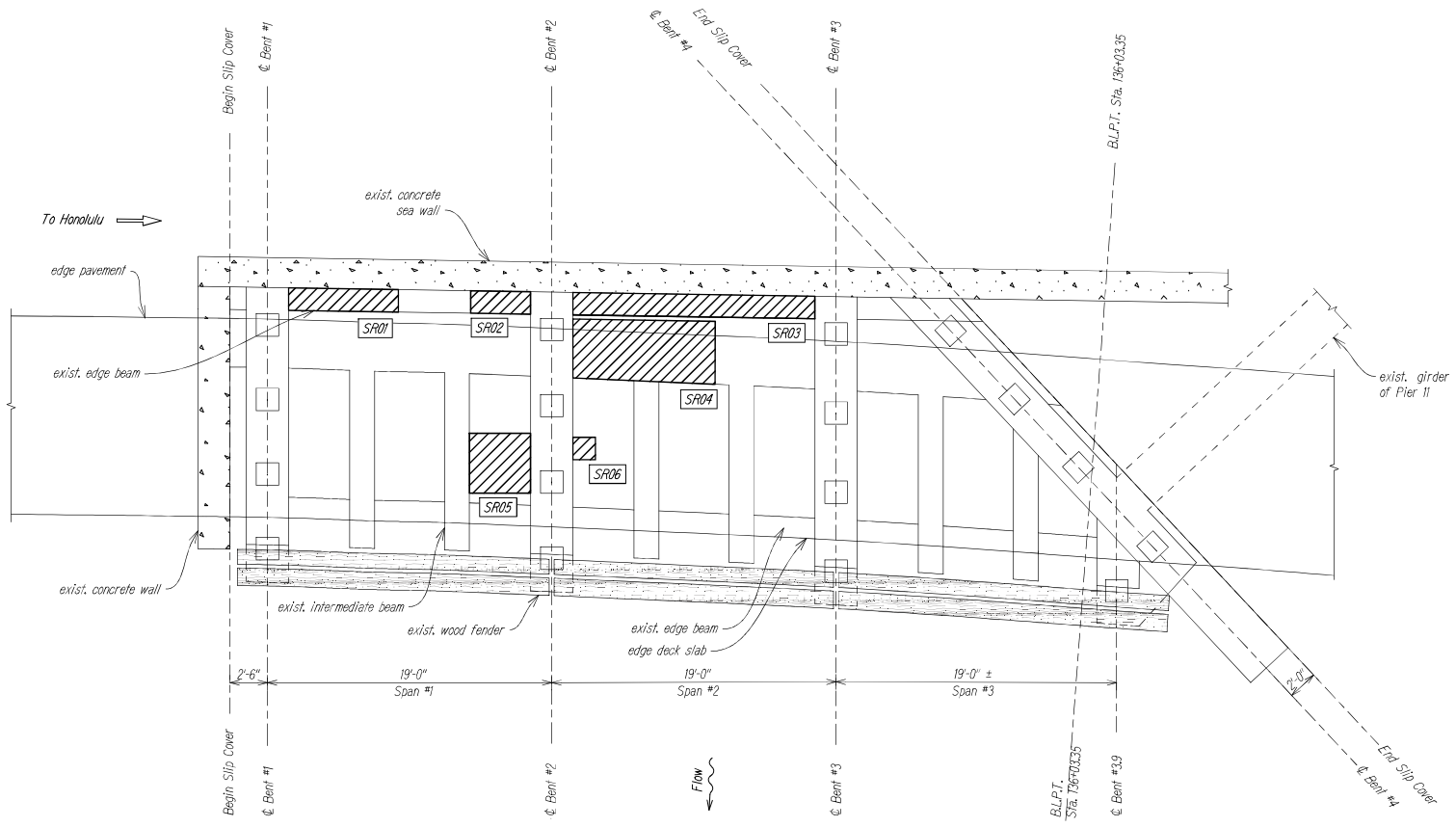
SLIP COVER #4 BRIDGE DECK PLAN
NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
 Federal-Aid Project No. NH-092-1(032)
 Scale: 1/4" = 1'-0" Date: Jan 2026

SHEET No. S-7 OF 13 SHEETS

W:_STRUCTURAL PROJECTS\2021_145674.DWG - RENE L. ISHIZAKI - SLIP COVER #4 BRIDGE DECK PLAN - S-7 - 4/29/2026 1:42 PM WUPCHER

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.22	27

TRUE NORTH
SCALE: 1/4" = 1'-0"



- NOTES:**
- For general notes, abbreviations, and estimated quantities, see Sheets S-1 and S-2.
 - For repair details, see Sheet S-3 & S-4. For bridge damage schedule, see Sheet S-5.
 - See Civil Drawings for striping, signage, traffic control plan, lane closure and detour plans.
 - Sheet for reference purposes only, no damages on top surface of deck.
 - Dimensions and details are taken from record drawings, The Contractor shall verify all dimensions.
 - See Damage Schedule for damage quantities. Blockouts are only intended to provide the Contractor with general location of the defects. Do not scale the blockouts shown on the drawings to calculate damage quantities.

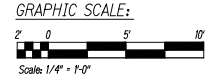
- LEGEND:**
- Existing Wood Fender
 - Existing Concrete Sea Wall
 - Denotes Spall Damage, See Schedule on Sheet S-5
 - Damage mark, See Schedule on Sheet S-5

SLIP COVER #4 BRIDGE SOFFIT PLAN
Scale: 1/4" = 1'-0" A
59 138

4/29/26 2 Stamped and Signed
DATE REVISION



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SIGNATURE 04/30/26
EXPIRATION DATE OF THE LICENSE

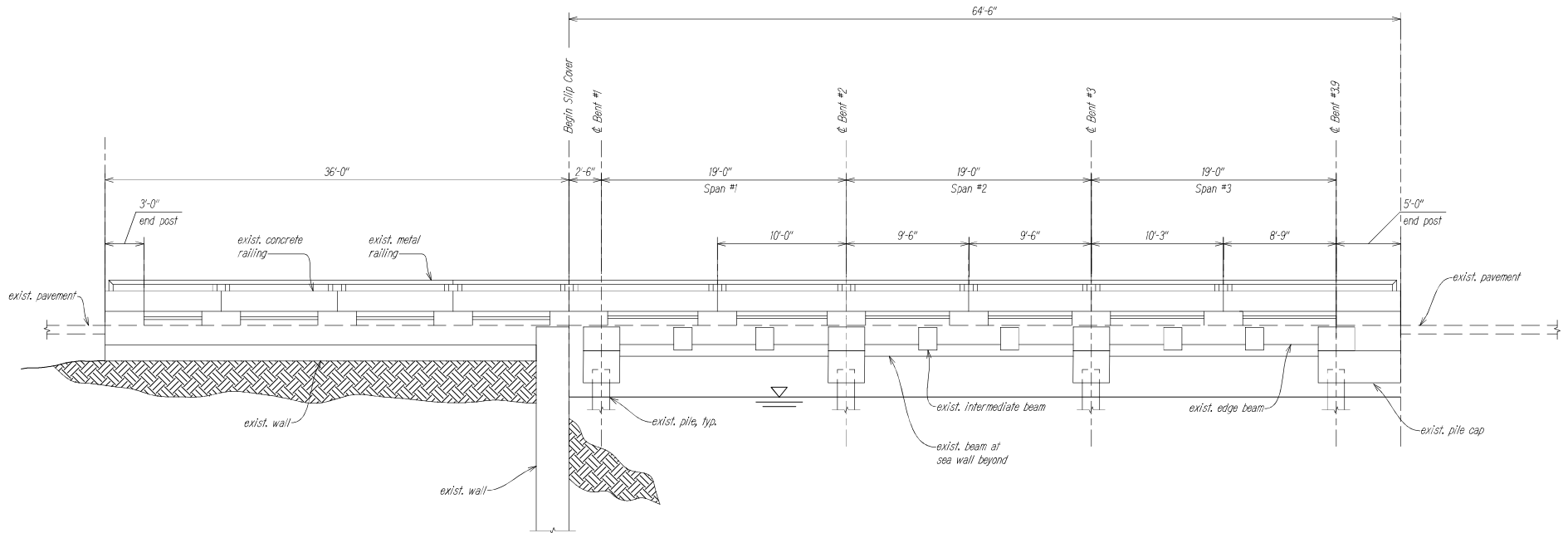
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SLIP COVER #4 BRIDGE
SOFFIT PLAN
NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal-Aid Project No. NH-092-1(032)
Scale: 1/4" = 1'-0" Date: Jan 2026

SHEET No. 5-8 OF 13 SHEETS

W:\STRUCTURAL PROJECTS\2021\150105.DWG - HWS SUP COVER & REPAIR CONTRACT BDCS\10 CAD\15-150105_S-8_BRIEFG PLANS.DWG 4/29/2026 1:42 PM JWC/SER

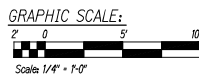
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.23	27



W:_STRUCTURAL PROJECTS\2021\1501016 DOT-HWYS SUP COVER 4 REHAB\CONTRACT BOCS\10 CAD\15-1501016_S-9_BRIDGE PUNASDING 4/29/2026 1:42 PM AWUSHER

MAKAI SIDE ELEVATION
Scale: 1/4" = 1'-0"

A
59/139



NOTES:

- For general notes, abbreviations, and estimated quantities, see Sheets S-1 and S-2.
- For repair details, see Sheet S-3 & S-4. For bridge damage schedule, see Sheet S-5.
- See Civil Drawings for striping, signage, traffic control plan, lane closure and detour plans.
- Sheet for reference purposes only, no damages on top surface of deck.
- Dimensions and details are taken from record drawings. The Contractor shall verify all dimensions.

LEGEND:

Earth



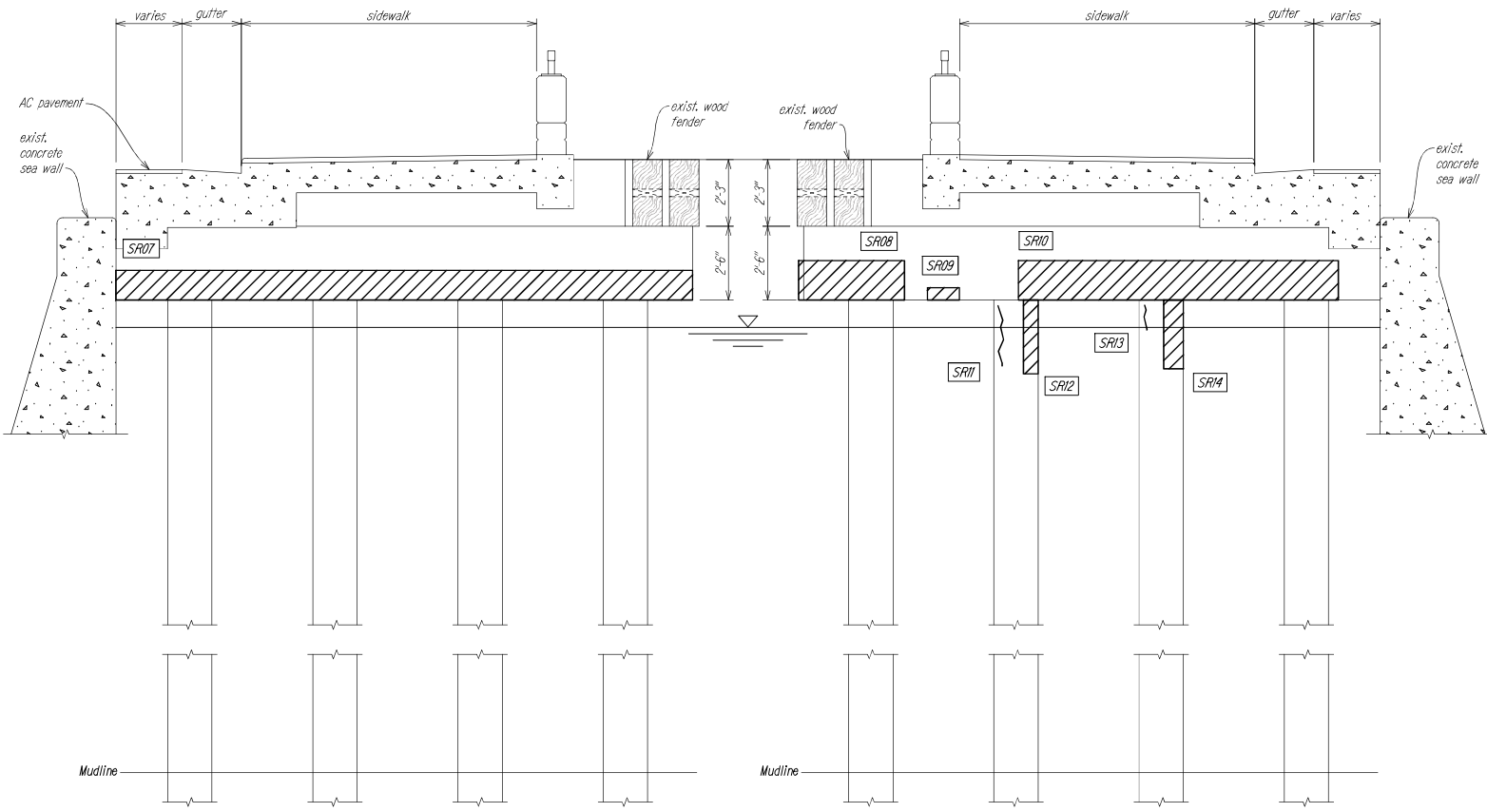
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Renee L. Ishiyama
SIGNATURE
04/30/26
EXPIRATION DATE OF THE LICENSE

4/29/26		Stamped and Signed
DATE	REVISION	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SLEIP COVER #4
BRIDGE ELEVATIONS**
NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal-Aid Project No. NH-092-1(032)
Scale: 1/4" = 1'-0" Date: Jan 2026
SHEET No. S-9 OF 13 SHEETS

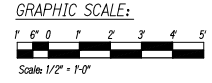
FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.24	27



BENT 1 SECTION - NORTH FACE
Scale: 1/2" = 1'-0"



BENT 1 SECTION - SOUTH FACE
Scale: 1/2" = 1'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Renée L. Ishida
SIGNATURE
04/30/26
EXPIRATION DATE OF THE LICENSE

- NOTES:**
- For general notes, abbreviations, and estimated quantities, see Sheets S-1 and S-2.
 - For repair details, see Sheet S-3 # S-4. For bridge damage schedule, see Sheet S-5.
 - See Civil Drawings for striping, signage, traffic control plan, lane closure and detour plans.
 - Dimensions and details are taken from record drawings. Contractor to verify all dimensions.
 - See Damage Schedule for damage quantities. Blockouts are only intended to provide the Contractor with general location of the defects. Do not scale the blockouts shown on the drawings to calculate damage quantities.
- LEGEND:**
- Existing Wood Fender
 - Existing Concrete Sea Wall
 - Denotes Spall Damage, See Schedule on Sheet S-5
 - Denotes Crack Damage, See Schedule on Sheet S-5
 - Damage mark, See Schedule on Sheet S-5

4/29/26	Stamped and Signed
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

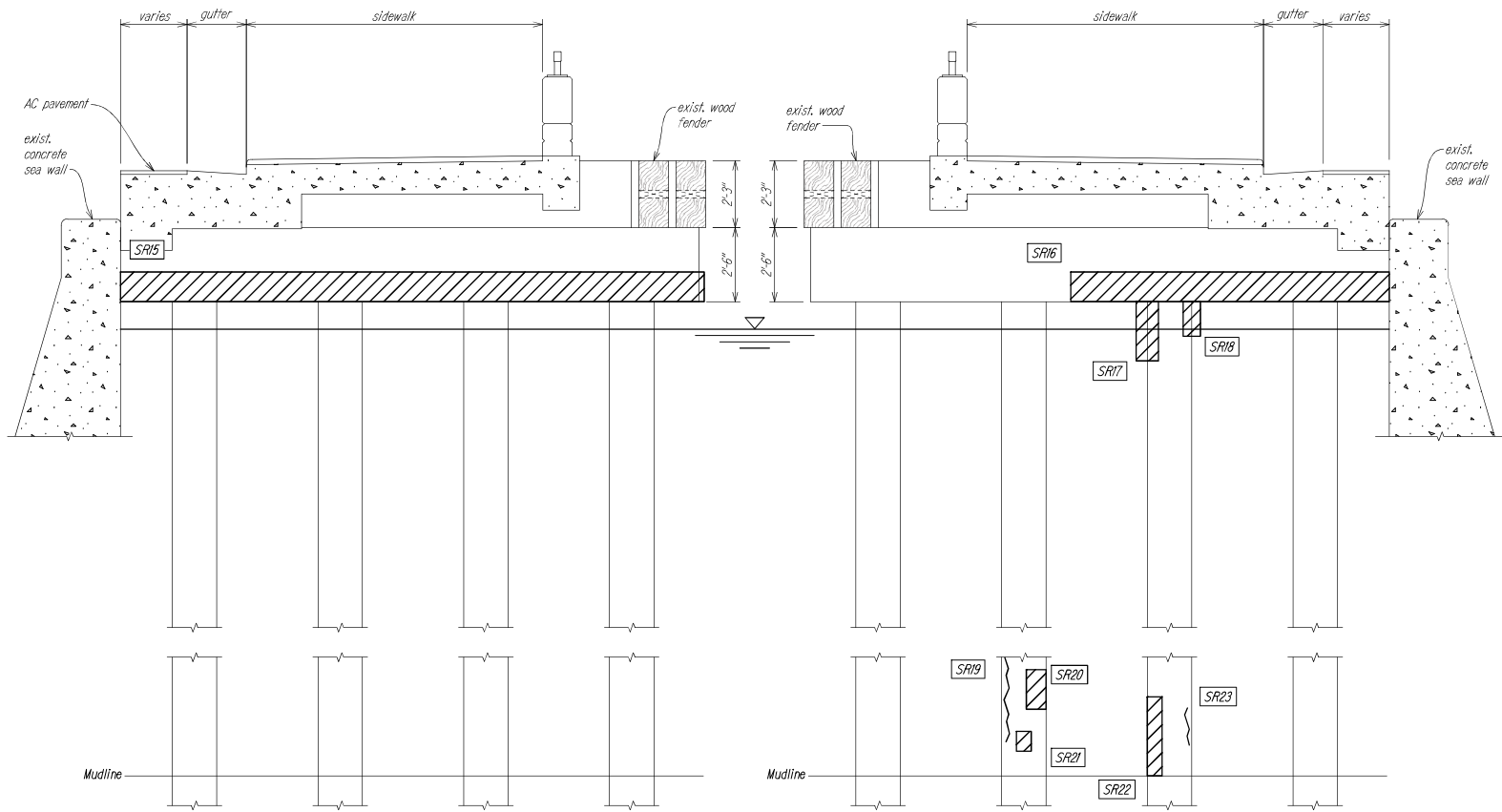
BENT 1 BRIDGE SECTIONS

NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal-Aid Project No. NH-092-1(032)
Scale: 1/2" = 1'-0" Date: Jan 2026

SHEET No. S-10 OF 13 SHEETS

W:\STRUCTURAL PROJECTS\2021\1501016 DOT-HHWB SLIP COVER #4 REHAB CONTRACT BDCS\10-GA10-S-11 BRIDGE SECTIONS.DWG 4/29/2026 1:43 PM AKOCHER

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.25	27

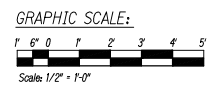


- NOTES:**
- For general notes, abbreviations, and estimated quantities, see Sheets S-1 and S-2.
 - For repair details, see Sheet S-3 # S-4. For bridge damage schedule, see Sheet S-5.
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 - Dimensions and details are taken from record drawings. Contractor to verify all dimensions.
 - See Damage Schedule for damage quantities. Blockouts are only intended to provide the Contractor with general location of the defects. Do not scale the blockouts shown on the drawings to calculate damage quantities.

- LEGEND:**
- Existing Wood Fender
 - Existing Concrete Sea Wall
 - Denotes Spall Damage, See Schedule on Sheet S-5
 - Denotes Crack Damage, See Schedule on Sheet S-5
 - Damage mark, See Schedule on Sheet S-5

BENT 2 SECTION - NORTH FACE
Scale: 1/2" = 1'-0"

BENT 2 SECTION - SOUTH FACE
Scale: 1/2" = 1'-0"



2

RENEE L. ISHIZAKI
LICENSED PROFESSIONAL ENGINEER
No. 145674
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Renee L. Ishizaki
SIGNATURE

04/30/26
EXPIRATION DATE OF THE LICENSE

4/29/26 Stamped and Signed

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

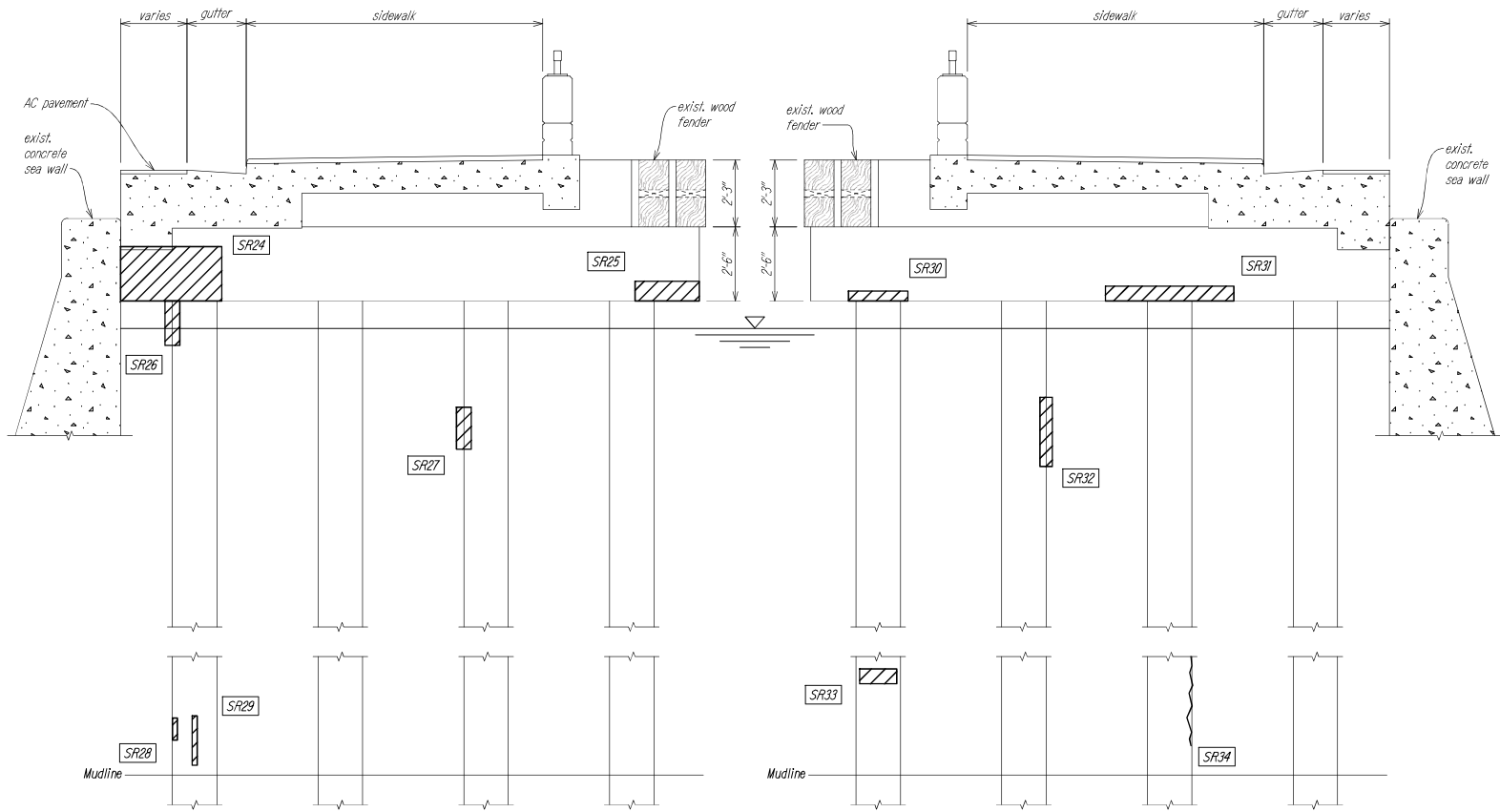
BENT 2 BRIDGE SECTIONS

NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal-Aid Project No. NH-092-1(032)
Scale: 1/2" = 1'-0" Date: Jan 2026

SHEET No. S-11 OF 13 SHEETS

W:\STRUCTURAL PROJECTS\2021\1561016 DOT-HWYB SLIP COVER & REHAB CONTRACT BDCS\10 CAD\10-5-11 BRIDGE SECTIONS.DWG 4/29/2026 1:43 PM AKOGER

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.26	27



- NOTES:**
- For general notes, abbreviations, and estimated quantities, see Sheets S-1 and S-2.
 - For repair details, see Sheet S-3 # S-4. For bridge damage schedule, see Sheet S-5.
 - See Civil Drawings for striping, signage, traffic control plan, lane closure and detour plans.
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 - See Damage Schedule for damage quantities. Blockouts are only intended to provide the Contractor with general location of the defects. Do not scale the blockouts shown on the drawings to calculate damage quantities.

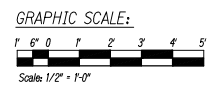
- LEGEND:**
- Existing Wood Fender
 - Existing Concrete Sea Wall
 - Denotes Spall Damage, See Schedule on Sheet S-5
 - Denotes Crack Damage, See Schedule on Sheet S-5
 - Damage mark, See Schedule on Sheet S-5

4/29/26	Stamped and Signed
DATE	REVISION

BENT 3 SECTION - NORTH FACE
Scale: 1/2" = 1'-0"



BENT 3 SECTION - SOUTH FACE
Scale: 1/2" = 1'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Signature:
 EXPIRATION DATE OF THE LICENSE: 04/30/26

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BENT 3 BRIDGE SECTIONS

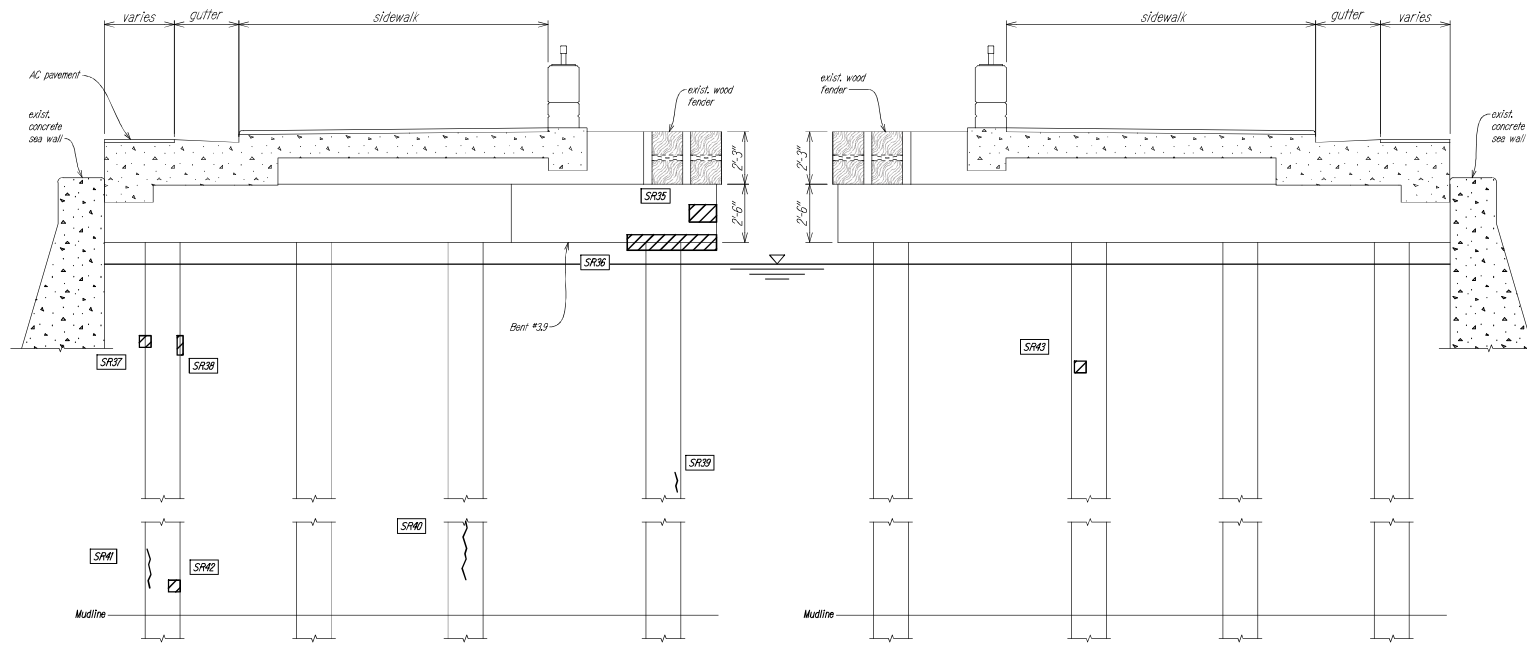
NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal Aid Project No. NH-092-1(032)
Scale: 1/2" = 1'-0" Date: Jan 2026

SHEET No. S-12 OF 13 SHEETS

W:_STRUCTURAL PROJECTS\2021\1501016 DOT-HHWB SLIP COVER #4 REHAB CONTRACT BDCS\10 CAD\10-S-11_BIDGE SECTIONS.DWG 4/29/2026 1:43 PM AKOCHER

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2026	ADD.27	27

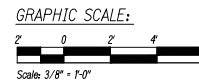
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BENT 4 SECTION - NORTH FACE
Scale: 3/8" = 1'-0"



BENT 4 SECTION - SOUTH FACE
Scale: 3/8" = 1'-0"



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Renée L. Ishiyaki
SIGNATURE
04/30/26
EXPIRATION DATE OF THE LICENSE

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4/29/26	2	Stamped and Signed
DATE	REVISION	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BENT 4 BRIDGE SECTIONS

NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal-Aid Project No. NH-092-1(032)
Scale: 1/2" = 1'-0" Date: Jan 2026

SHEET No. S-13 OF 13 SHEETS

**Questions for solicitation: B26002346 NH-092-1(032) Nimitz Highway Slip
Cover No. 4 Rehabilitation
04/28/2026**

1. Since the solicitation is Concrete Repair Project with the majority of the project consisting as such; we would respectfully request that a C-31 Licensed Concrete Specialty Contractor in good standing be able to submit a bid as the prime contractor.

The request is respectfully denied. The solicitation requirements for prime contractor licensure remain unchanged. Bidders shall possess a valid State of Hawaii General Engineering "A" license prior to the award of contract as specified in the bid documents.

2. Sheet S-1, Note 13 requires the Contractor to close the lane directly over repair areas during concrete rehabilitation and mortar curing. Section 645(F) limits closures to one lane, 8:30am–3:00pm, Mon–Fri, and requires coordination with adjacent projects at no additional cost or time. The inside lane of Nimitz Hwy Eastbound between Awa St. and Richards St. is currently closed 24/7 through 2030 due to HART construction. With one lane already closed for HART and a second lane required to be closed for this work (8:30am–3:00pm Mon–Fri), please clarify whether reducing Nimitz Hwy Eastbound to two through lanes for potentially the entire contract duration is acceptable to HDOT and permissible under the existing HART Street Usage agreement.

Reducing Nimitz Highway eastbound to two (2) through lanes is acceptable.

3. As seen on Sheets S-10 through S-13, some of the spall repairs are located underwater. Construction material discharge into navigable waters of the United States is anticipated, necessitating an Individual NPDES permit through the Hawaii Department of Health Clean Water Branch. Additionally, work conducted in navigable waters triggers a Nationwide Section 404 permit (NWP) requirement from the US Army Corps of Engineers. Please clarify whether the Contractor or the State of Hawaii is responsible for obtaining these permits. If it is the Contractor's responsibility, is the time required part of the contract duration? If so, will additional time be granted due to permitting delays outside of the Contractor's control?

It is not anticipated that an individual NPDES permit will be required for this project. If the Contractor determines that an Individual NPDES will be required, the Contractor shall be responsible for obtaining the required NPDES to cover the anticipated activities.

Section 404 Nationwide Permit verification letter issued by Department of the Army will be included in Addendum No. 2 for information.

4. Sheet S-5 acknowledges that damage quantities were determined at the time of investigation and directs the Contractor to verify all quantities, noting the Engineer may direct additional repairs outside the marked priority areas. Primary repair items are bid as lump sum, with additional work compensated on a force account basis per Section 680.05. Given the marine environment and tidal exposure, actual spall and crack quantities are likely to differ materially from the plans. Force account compensation for what could be a significant and unpredictable portion of the work creates administrative burden for both parties and does not incentivize efficient performance. Please clarify whether the proposal form will be amended to include unit prices for spall and crack repair, providing a more transparent and equitable basis for compensating additional work beyond the lump sum scope.

Reinforcing Steel for Concrete Repairs and Reinforcing Steel for Concrete Repairs within the Tidal Zone have been revised to utilize a pay item of pound and the force account item was removed. Concrete Rehabilitation of Spalls and Concrete Rehabilitation of Spalls within Tidal Zone have been revised to utilize a pay unit of Square Foot and the force account item was removed. Crack Repair by Epoxy Injection and Crack Repair by Epoxy Injection within the tidal zone were revised to utilize a pay unit of linear foot and the force account item was removed. Addendum No. 2 will be issued for the revisions.



DEPARTMENT OF THE ARMY
HONOLULU DISTRICT, U.S. ARMY CORPS OF ENGINEERS
230 OTAKE STREET, CEPOH-RO
FORT SHAFTER, HAWAII 96858-5440

April 10, 2026

SUBJECT: Nationwide Permit Verification for HDOT, Slip Cover #4 Bridge Repairs, Honolulu Harbor, Honolulu, Island of Oahu, HI Department of the Army File No. POH-2025-00123

Lawrence Dill
Hawaii Department of Transportation-Highways
869 Punchbowl St.
Honolulu, HI 96813

Dear Mr. Dill:

The Honolulu District, U.S. Army Corps of Engineers (Corps), Regulatory Branch has completed review of your Pre-Construction Notification reverification request dated March 16, 2026, requesting authorization for the proposed Slip Cover #4 Bridge repair located in Honolulu Harbor at mile post 6.170 on the north side of the HDOT Harbors Division building at 79 S Nimitz Highway, Honolulu, Island of Oahu, Hawaii (21.30912°, -157.86442°). Please reference Department of the Army (DA) file number POH-2025-00123 in any future correspondence related to this permit.

This Nationwide Permit (NWP) verification letter is being issued pursuant to Section 404 of the Clean Water Act for the discharge of dredged and/or fill material into waters of the U.S. You are authorized to conduct the following activities:

- Repairs to the support piles of an existing three span bridge below the mean higher high water mark (MHHW) of Honolulu Harbor in the Pacific Ocean. Work will consist of repairing concrete that has started to break or separate on the piles and addressing undermining of the piles. The project will require the discharge of up to 2 cubic yards of concrete.

Based upon the information and plans you provided, we hereby verify that the work described above, which would be performed in accordance with the enclosed plan (sheets 1-7), dated May 23, 2025, is authorized by NWP 3, (Maintenance). The full text of NWP 3 and its associated Regional and General Conditions can be accessed at: <https://www.poh.usace.army.mil/Missions/Regulatory/Permits/Nationwide-Permits>, however, at this time, our website has not been updated with the 2026 NWP documentation. Therefore, we are providing you attachments with this information for your use. You must comply with all terms and conditions associated with NWP 3.

Verification of your project under this NWP is valid until **March 15, 2031**, unless this NWP is modified, reissued, or revoked prior to that date. If you commence or are under contract to commence this activity before the date that the NWPs are modified or

revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of these NWPs. It is incumbent upon you to remain informed of changes to the NWPs. If the Corps modifies, reissues, or revokes any NWP at an earlier date, we will issue a public notice announcing the changes. Failure to comply with all terms and conditions of this NWP verification invalidates this authorization and could result in a violation of the Clean Water Act and/or Rivers and Harbors Act and subsequent enforcement action.

This authorization does not relieve you of the responsibility to obtain any other federal, state, and/or local authorizations required by law.

Your project complies with the requirements of the Clean Water Act, Section 401 Blanket Water Quality Certification (WQC) WQC1100 issued for this Nationwide Permit by the State of Hawaii Department of Health, Clean Water Branch. You are responsible for complying with the attached General Conditions of this WQC (Enclosure 2).

Your project complies with the requirements of the Coastal Zone Management Consistency Concurrence for this NWP issued by the State of Hawaii Department of Business, Economic Development and Tourism, Office of Planning and Sustainable Development during the NWP reissuance process in 2026.

Finally, General Condition 30 requires a signed certification be submitted to this office upon completion of work. Therefore, please sign, date and return the enclosed *Compliance Certification* form (Enclosure 3) within 30 days of completion of work to CEPOH-RO@usace.army.mil.

Thank you for your cooperation with the Honolulu District Regulatory Program. Should you have any questions related to this authorization, please contact me at (808) 459-0179 or via e-mail at david.j.rojek@usace.army.mil and CEPOH-RO@usace.army.mil, referencing the project number POH-2025-00123 in the email subject. Please see our website for more information, located at <https://www.poh.usace.army.mil/Missions/Regulatory/>.

Sincerely,

A handwritten signature in black ink that reads "David Rojek". The signature is written in a cursive, slightly slanted style.

David Rojek
Regulatory Specialist, Regulatory Branch

Enclosures

Electronic cc:

State of Hawaii Department of Health, Clean Water Branch

Reef Migita reef.migita@doh.hawaii.gov

Robert Phan robert.phan@doh.hawaii.gov

CleanWaterBranch@doh.hawaii.gov

State of Hawaii Office of Planning, Coastal Zone Management Program

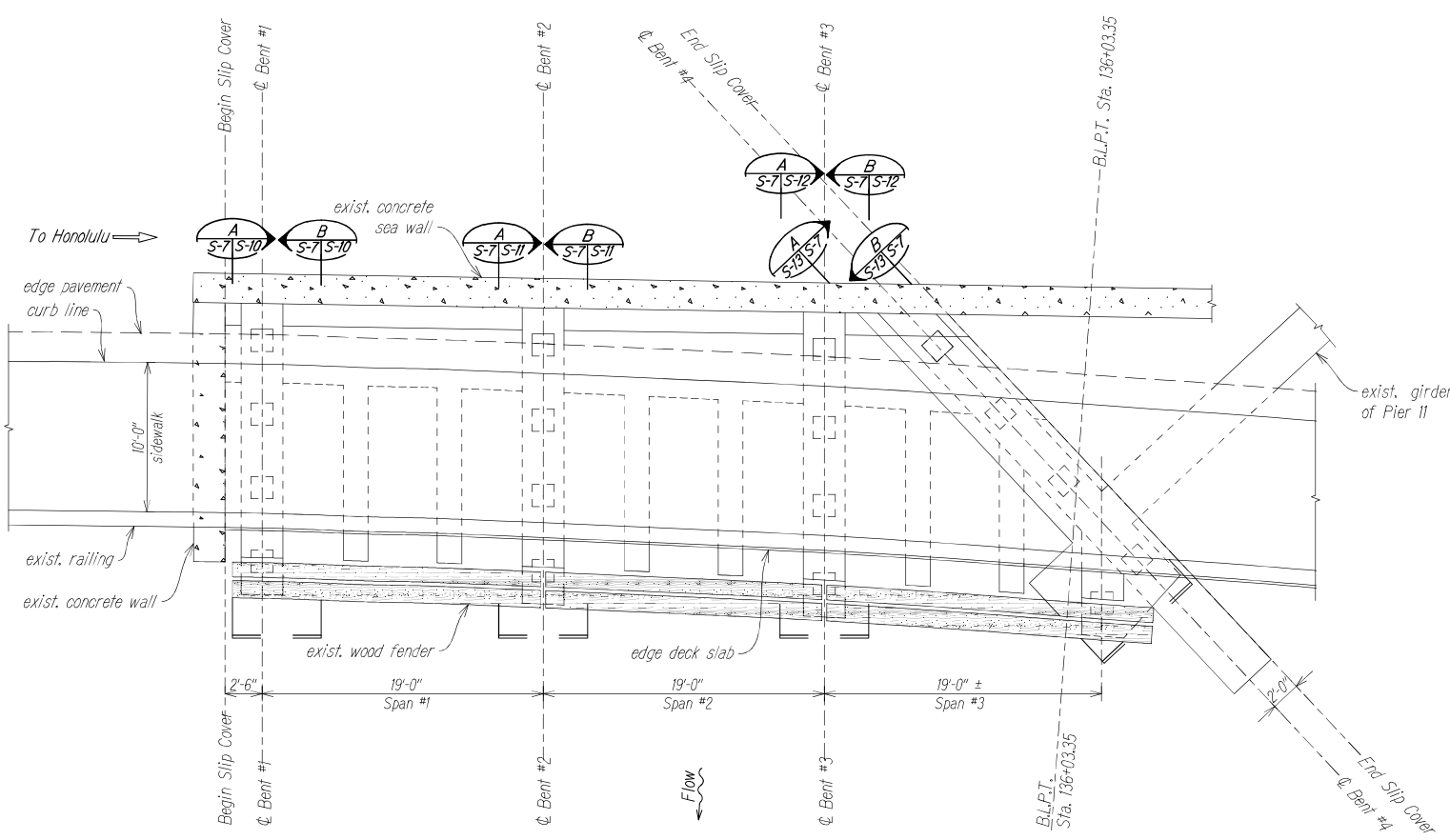
Debra.L.Mendes@hawaii.gov

Heather Bartlett (SSFM International), hbartlett@ssfm.com

USCG District 14 Waterways Management, d14-dg-pj-dpw@uscg.mil

FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2024	21	27

TRUE NORTH
SCALE: 1/4" = 1'-0"



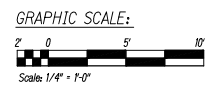
- NOTES:**
- For general notes, abbreviations, and estimated quantities, see Sheets S-1 and S-2.
 - S-3, S-4, and S-5 see concrete spall repair and damage schedule.
 - See Civil Drawings for striping, signage, traffic control plan, lane closure and detour plans.
 - Sheet for reference purposes only, no damages on top surface of deck.
 - Dimensions and details are taken from record drawings, The Contractor shall verify all dimensions.

- LEGEND:**
- Existing Wood Fender
 - Existing Concrete Sea Wall

ENLARGED SLIP COVER #4 BRIDGE DECK PLAN
Scale: 1/4" = 1'-0" A
S-7/S-10

Addendum No. 2
5/6/26

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OR UNDER MY SUPERVISION.



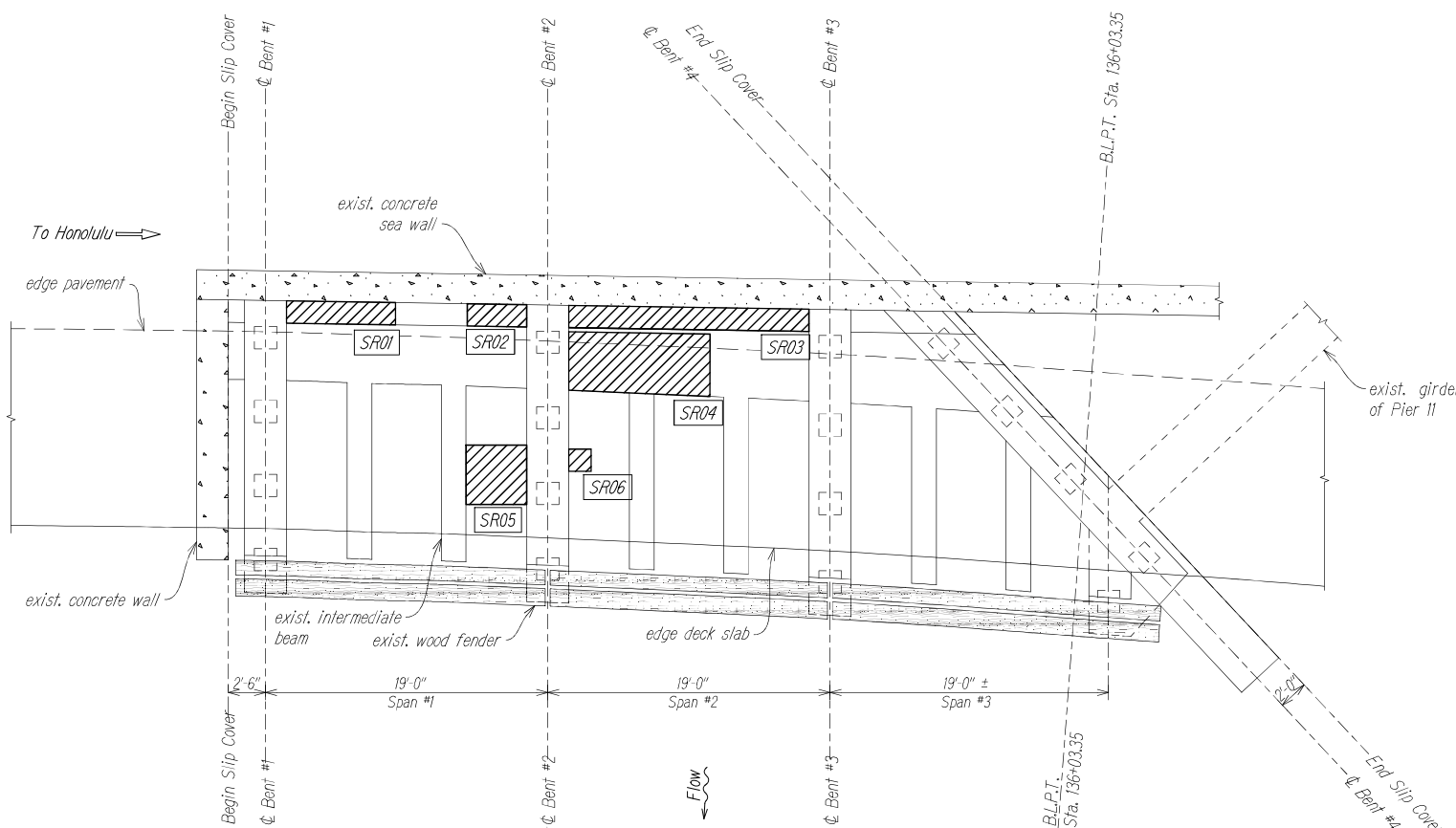
04/30/26
SIGNATURE _____ EXPIRATION DATE OF THE LICENSE

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SLIP COVER #4 BRIDGE DECK PLAN NIMITZ HIGHWAY SLIP COVER #4, HONOLULU HARBOR BRIDGE REHABILITATION Federal Aid Project No. NH-092-1(032) Scale: 1/4" = 1'-0" Date: October 2024 SHEET No. S-7 OF 13 SHEETS	

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FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2024	22	27

TRUE NORTH
SCALE: 1/4" = 1'-0"

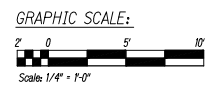


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- LEGEND:**
- Existing Wood Fender
 - Denotes Spall Repair, See Schedule
 - SRXX** See Damage Mark on S-5

SLIP COVER #4 BRIDGE SOFFIT PLAN
Scale: 1/4" = 1'-0"

Addendum No. 2
5/6/26



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04/30/26
 SIGNATURE _____ EXPIRATION DATE OF THE LICENSE

DATE	REVISION

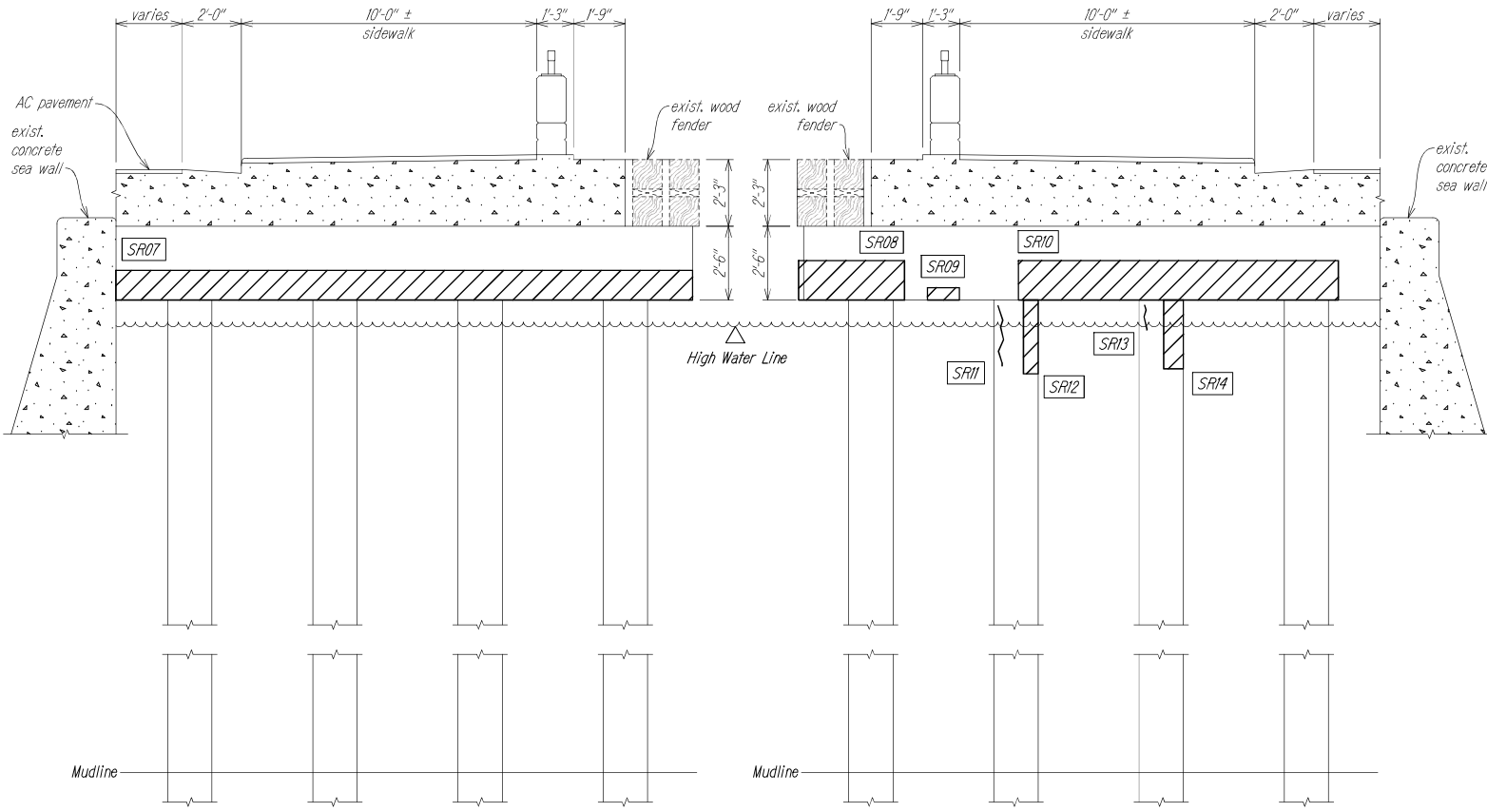
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SLIP COVER #4 BRIDGE SOFFIT PLAN
 NIMITZ HIGHWAY
 SLIP COVER #4, HONOLULU HARBOR
 BRIDGE REHABILITATION
 Federal-Aid Project No. NH-092-1(032)
 Scale: 1/4" = 1'-0" Date: October 2024

SHEET No. S-8 OF 13 SHEETS

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FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2024	24	27



BENT 1 SECTION - NORTH FACE
Scale: 1/2" = 1'-0"



BENT 1 SECTION - SOUTH FACE
Scale: 1/2" = 1'-0"



GRAPHIC SCALE:



Addendum No. 2
5/6/26

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SIGNATURE

04/30/26
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DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

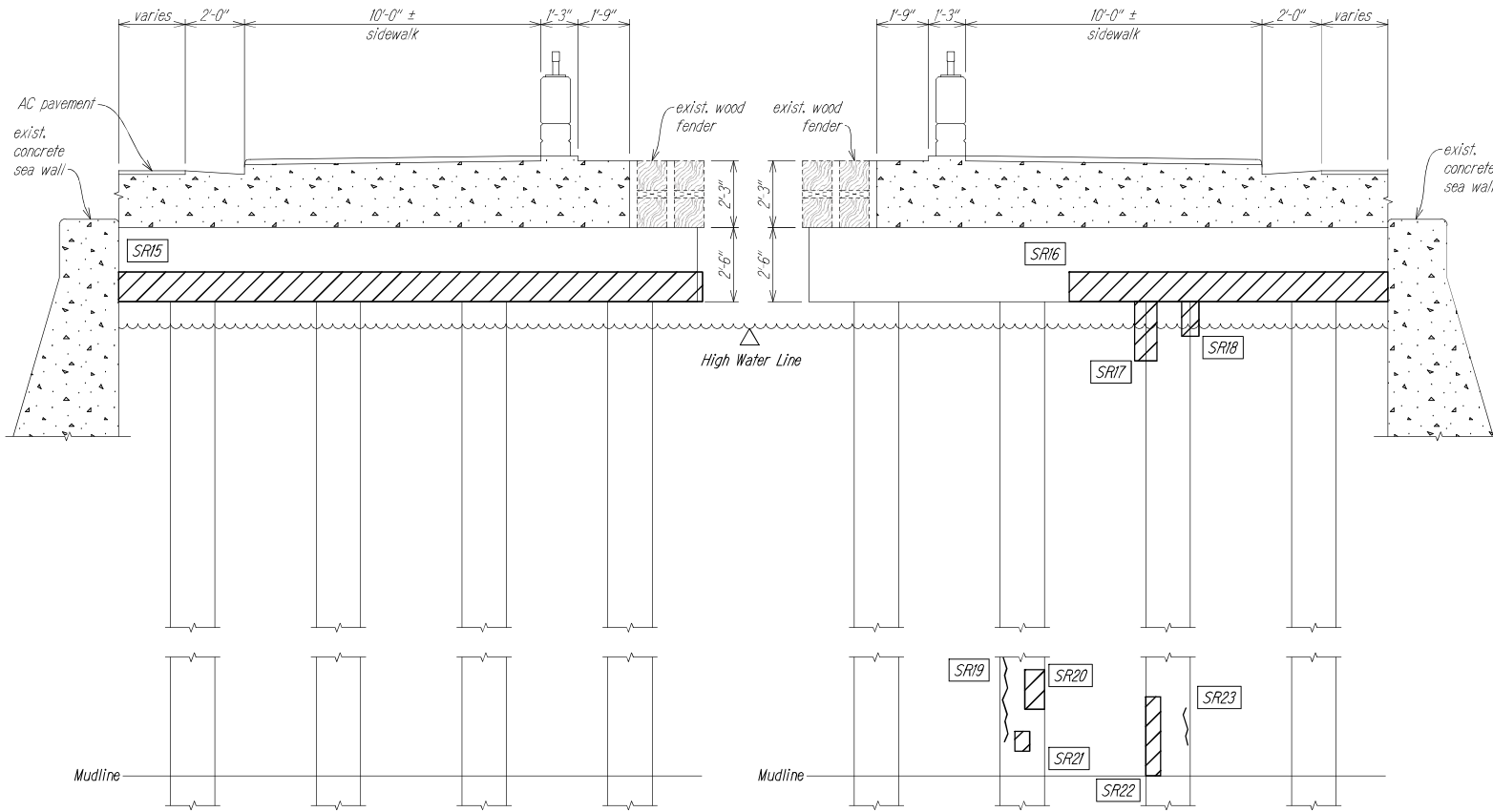
BENT 1 BRIDGE SECTIONS

NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal Aid Project No. NH-092-1(032)
Scale: 1/2" = 1'-0" Date: October 2024

SHEET No. S-10 OF 13 SHEETS

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1032	2024	25	27



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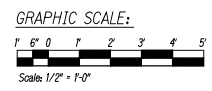
- LEGEND:**
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DATE	REVISION

BENT 2 SECTION - NORTH FACE
Scale: 1/2" = 1'-0"

BENT 2 SECTION - SOUTH FACE
Scale: 1/2" = 1'-0"

Addendum No. 2
5/6/26



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SIGNATURE _____
EXPIRATION DATE OF THE LICENSE 04/30/26

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

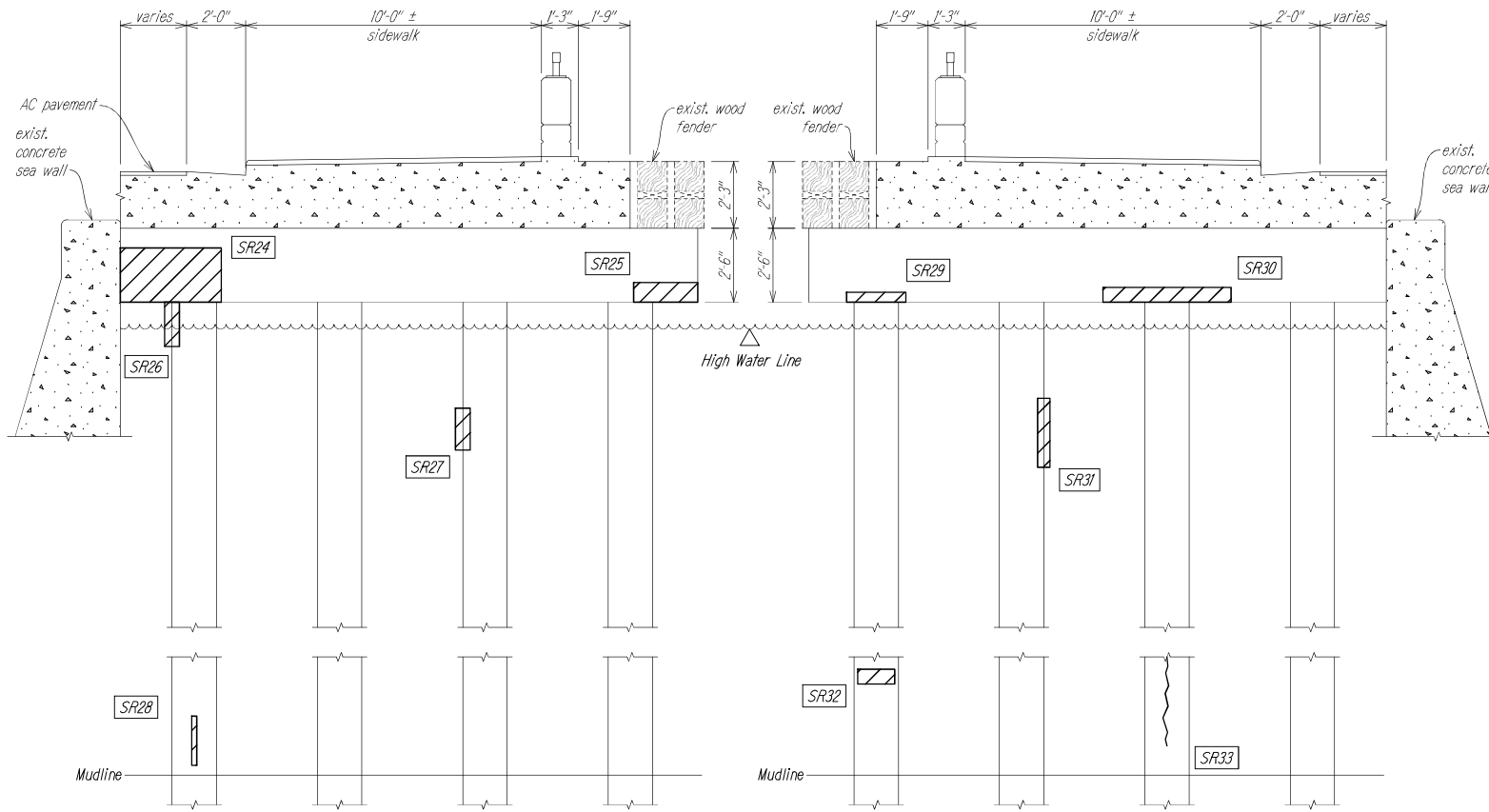
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NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal Aid Project No. NH-092-1032
Scale: 1/2" = 1'-0" Date: October 2024

SHEET No. S-II OF 13 SHEETS

W.A. STRUCTURAL PROJECTS 2021 140.015 DOT-HWYS SLIP COVER #4 REHAB CONTRACT DDCS 00 CA115-10.5-13 BRIDGE SECTIONS.DWG 9/24/2024 3:39 PM AKOCHER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2024	26	27



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DATE	REVISION

BENT 3 SECTION - NORTH FACE
Scale: 1/2" = 1'-0"



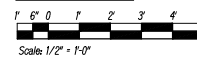
BENT 3 SECTION - SOUTH FACE
Scale: 1/2" = 1'-0"



Addendum No. 2
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GRAPHIC SCALE:



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BENT 3 BRIDGE SECTIONS

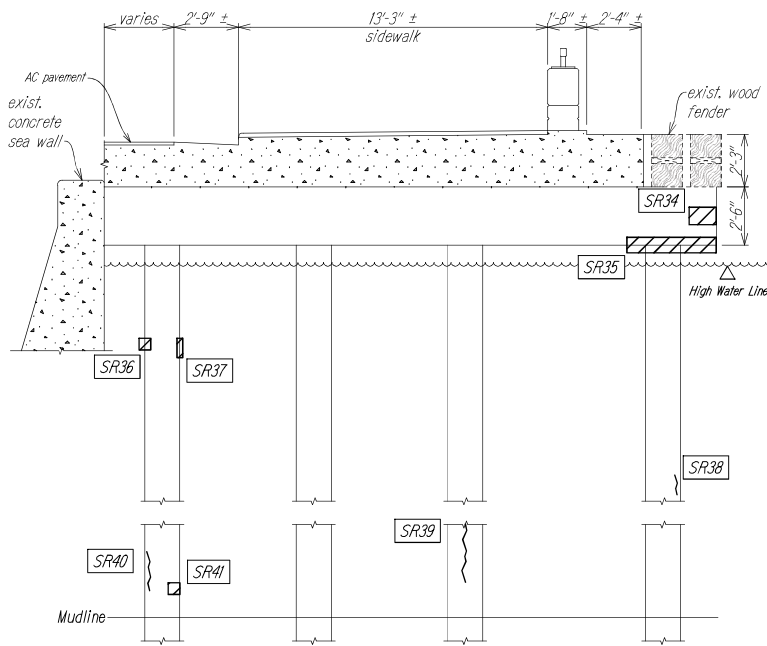
NIMITZ HIGHWAY
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SHEET No. S-12 of 13 SHEETS

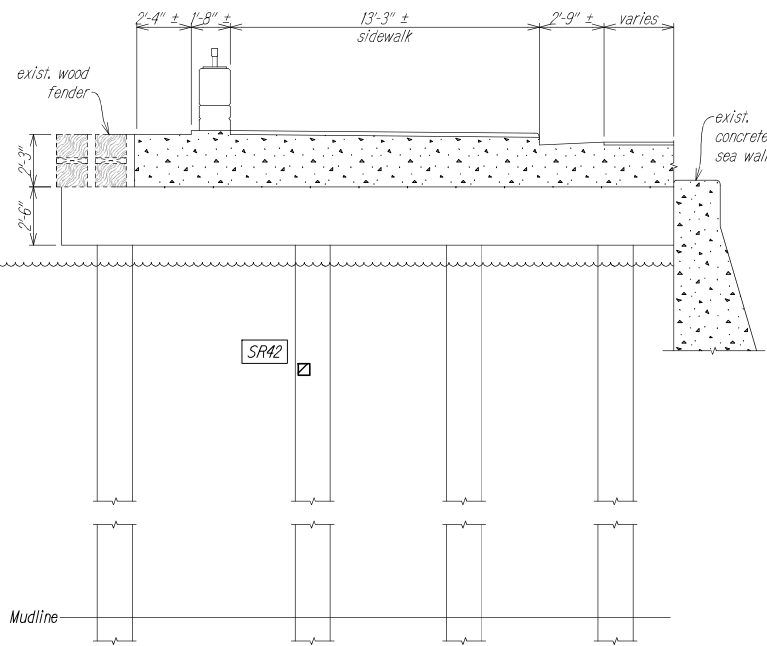
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FED. ROAD DIST. NO.	STATE	FED.-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-092-1(032)	2024	27	27

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BENT 4 SECTION - NORTH FACE
Scale: 3/8" = 1'-0"



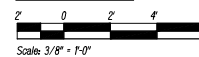
BENT 4 SECTION - SOUTH FACE
Scale: 3/8" = 1'-0"



Addendum No. 2
5/6/26

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GRAPHIC SCALE:



SIGNATURE

04/30/26
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- Denotes Crack Repair, See Schedule
- SRXX See Damage Mark on S-5

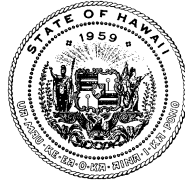
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BENT 4 BRIDGE SECTIONS

NIMITZ HIGHWAY
SLIP COVER #4, HONOLULU HARBOR
BRIDGE REHABILITATION
Federal-Aid Project No. NH-092-1(032)
Scale: 3/8" = 1'-0" Date: October 2024

SHEET No. S-13 OF 13 SHEETS



STATE OF HAWAII
DEPARTMENT OF HEALTH
KA 'OIHANA OLAKINO
P.O. BOX 3378
HONOLULU, HAWAII 96801-3378

In reply, please refer to:
File:

WQC1100.FNL.25

December 5, 2025

Via e-mail sara.w.longan@usace.army.mil only

Ms. Sara W. Longan
Regional Regulatory Chief
U.S. Department of the Army
U.S. Army Corps of Engineers, Honolulu District
Fort Shafter, Hawaii 96858

Dear Ms. Longan:

**Subject: Blanket Section 401 Water Quality Certification (WQC) for
Certain 2026 Department of the Army (DA)
Nationwide Permits (NWP) and Activities
All Islands, State of Hawaii
File No. WQC1100**

Purpose. This letter is a blanket Section 401 WQC (Blanket Certification) and sets forth applicable qualifications and activity-specific conditions to certain NWPs and activities, as described below. This Blanket Certification may be utilized by any applicant that is seeking work authorization verification from the U.S. Army Corps of Engineers (USACE), Honolulu District of the Pacific Ocean Division (POH).

This Blanket Certification supersedes and replaces WQC1092.FNL.20 issued November 20, 2020 (WQC1092) when the USACE issues and implements the 2026 NWPs for a specific project. For the avoidance of doubt:

1. Requirements and conditions set forth in WQC1092 which are not set forth in this Blanket Certification shall no longer be applicable;
2. Activities covered under WQC1092 shall be subject to this Blanket Certification, including requirements and conditions different from or in addition to WQC1092; and
3. Pending applications, including those currently under review by USACE POH or the Department of Health (DOH), shall be subject to this Blanket Certification.

Overview. The DA has published a list of NWP's and applicable general conditions that attach to those NWP's.¹ Certain NWP's may require a Section 401 WQC from the State of Hawaii. The DOH has the authority to issue a Blanket Certification and may qualify or condition the Blanket Certification. The conditions in this Blanket Certification become additional conditions to the NWP's. The qualifications would set forth the applicability of the Blanket Certification to a NWP or other described activity.

The DOH reviewed the NWP and General Conditions published in the Federal Register: Final Rules and the additional comments submitted by USACE POH. The DOH believes that when all requirements and conditions contained in this Blanket Certification are fully complied with, there is a reasonable assurance that the activities will be conducted in a manner which will not violate the applicable State water quality requirements and will comply with the applicable provisions of the CWA, Sections 301, 302, 303, 306, and 307.

The NWP's and activities in Item 2.a below do not require a Section 401 WQC. The NWP's and activities in Item 2.b below are covered under this Blanket Certification. The DOH has determined that projects authorized by the USACE POH for the NWP's and activities in Item 2.b below, subject to the requirements of the General Conditions in Item 3 below, will not cause adverse environmental impacts or effects; are in the public interest; and represent the optimum balance between economic development and environmental quality.

1. Term of this Blanket Certification
 - a. This Blanket Certification is effective on **March 15, 2026**.
 - b. This Blanket Certification will expire at midnight, **March 14, 2031**.
 - c. This Blanket Certification's coverage to a certain project is administratively extended beyond midnight, March 14, 2031, when the USACE POH extends the project authorization/verification.

¹ The DA NWP authorizes activities under 1) Section 404 of the Clean Water Act (CWA), 2) Section 10 of the Rivers and Harbors Act of 1899 (RHA), and/or 3) a Letter of Permission, and was published on June 18, 2025, in the Federal Register, Volume 90, Number 116 (Federal Register).

2. Coverage of this Blanket Certification

a. The NWP's and activities listed below do not require a Section 401 WQC.

- NWP 1 – Aids to Navigation
- NWP 8 – Oil and Gas Structures on the Outer Continental Shelf
- Projects in response to a public emergency proclaimed by the President of the United States or Governor of Hawaii where HRS Chapter 342D has been suspended.
- Emergency projects as determined by the Director of Health.
- Projects granted an exemption under Act 048 of 2017 (temporary exemption of certain bridge rehabilitation projects).
- Projects involving structures over a waterbody where debris and other pollutants associated with the installation, construction, and operation do not enter the waterbody.
- Projects involving directional drilling under a waterbody where entry and exit pits are located on land and all slurry/spoils/runoff is contained on land.
- Projects to install in State waters temporary Best Management Practices (BMPs) consisting of inert material, excluding any material used to divert or dam stream flow.
- Projects to improve or modify permitted existing offshore moorings installed prior to October 4, 2017, for the Department of Land and Natural Resources, Division of Boating and Ocean Recreation.
- Activities exempt under CWA, Section 404(f)(1).
- Bridge inspection activities.
- Coral transplant activities with oversight by the National Oceanic and Atmospheric Administration.
- Events where visible debris from fireworks is collected afterwards.
- Events where lanterns and rubber duckies are collected afterwards.
- Events where ashes from funeral ceremonies are dispersed 3 miles away from shore.
- Comprehensive Environmental Response, Compensation, and Liability Act actions with oversight from the DOH Hazard Evaluation and Emergency Response (HEER) Office and/or EPA.
- DOH HEER response actions.
- After-The-Fact applications for USACE POH enforcement actions².

² DOH has decided not to process After-The-Fact applications so the USACE POH can proceed with their enforcement action.

- b. The NWP's and activities listed below are hereby granted coverage under this Blanket Certification in the State of Hawaii if the applicant of the activity/discharge complies with the General Conditions (Item 3) and USACE POH provides notification (Item 4). Any person, including any public body, conducting activities authorized by these NWP's and activities that cannot or will not comply with this Blanket Certification must apply for and obtain an individual Section 401 WQC from the DOH Clean Water Branch (CWB).
- NWP 2 – Structures in Artificial Canals
 - NWP 3 – Maintenance
 - NWP 4 – Fish and Wildlife Harvesting, Enhancement, and Attraction Devices and Activities
 - NWP 5 – Scientific Measurement Devices
 - NWP 6 – Survey Activities
 - NWP 7 – Outfall Structures and Associated Intake Structures
 - NWP 9 – Structures in Fleeting and Anchorage Areas
 - NWP 10 – Mooring Buoys
 - NWP 11 – Temporary Recreational Structures
 - NWP 12 – Oil or Natural Gas Pipeline Activities
 - NWP 13 – Bank Stabilization
 - NWP 14 – Linear Transportation Projects
 - NWP 15 – U.S. Coast Guard Approved Bridges
 - NWP 16 – Return Water from Upland Contained Disposal Areas
 - NWP 17 – Hydropower Projects
 - NWP 18 – Minor Discharges
 - NWP 19 – Minor Dredging
 - NWP 20 – Response Operations for Oil or Hazardous Substances
 - NWP 22 – Removal of Vessels
 - NWP 23 – Approved Categorical Exclusions
 - NWP 25 – Structural Discharges
 - NWP 27 – Aquatic Ecosystem Restoration, Establishment, and Enhancement Activities
 - NWP 28 – Modifications of Existing Marinas
 - NWP 29 – Residential Developments
 - NWP 31 – Maintenance of Existing Flood Control Facilities
 - NWP 32 – Completed Enforcement Actions
 - NWP 33 – Temporary Construction, Access, and Dewatering
 - NWP 35 – Maintenance Dredging of Existing Basins
 - NWP 36 – Boat Ramps
 - NWP 37 – Emergency Watershed Protection and Rehabilitation
 - NWP 38 – Cleanup of Hazardous and Toxic Waste

- NWP 39 – Commercial and Institutional Developments
- NWP 40 – Agricultural Activities
- NWP 41 – Reshaping Existing Drainage Ditches
- NWP 42 – Recreational Facilities
- NWP 43 – Stormwater Management Facilities
- NWP 45 – Repair of Uplands Damaged by Discrete Events
- NWP 46 – Discharges in Ditches
- NWP 48 – Commercial Shellfish Mariculture Activities
- NWP 51 – Land-Based Renewable Energy Generation Facilities
- NWP 53 – Removal of Low-Head Dams
- NWP 54 – Living Shorelines
- NWP 55 – Seaweed Mariculture Activities
- NWP 57 – Electric Utility Line and Telecommunications Activities
- NWP 58 – Utility Line Activities for Water and Other Substances
- NWP 59 – Water Reclamation and Reuse Facilities
- NWP A – Activities to Improve Passage of Fish and Other Aquatic Organisms
- Letters of Permission – Section 10 only activities with no discharge of fill material.
- Any activity conducted in compliance with DOH pre-approved Standard Operating Procedures.

c. Limitations on Coverage

This Blanket Certification shall not cover:

- (1) Any projects that may result in discharge(s) regulated under CWA, Section 402. [Authorization: HRS § 342D-50(a)]
- (2) Any projects that may result in downstream/downdrift post construction impacts to the physical, chemical, and/or biological environment. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-5, 11-54-6, 11-54-7, 11-54-8]
- (3) Any projects involving the concrete lining of any section of natural streambeds or banks.³ [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-5, 11-54-6, 11-54-7, 11-54-8]

³ This type of activity is prohibited as it will result in adverse post construction impacts by eliminating ground water recharge, raising pH, and lowering dissolved oxygen or causing downstream bank erosion.

- (4) Any projects involving the removal of dams, impoundments, structures, or sand bars that will result in the downstream/downdrift mobilization of material, sediment, and/or water pollutants.
[Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-5, 11-54-6, 11-54-7, HRS Chapter 11-54-8]
- (5) Any projects that may result in waste discharges to natural lakes or anchialine pools, as specified in HAR § 11-54-5.2(a), or any State waters. Per HRS § 342D-1, “waste” means sewage, industrial and agricultural matter, and all other liquid, gaseous, or solid substance, including radioactive substance, whether treated or not, which may pollute or tend to pollute the waters of this State. Non-contaminated and suitable dredge and fill material authorized under a 2026 NWP is not considered waste.
- (6) Any projects that may result in new sewage discharges or new industrial discharges to estuaries, as specified in HAR §§ 11-54-3(b) and 11-54-5.2(d), or embayments, as specified in HAR §§ 11-54-3(c) and 11-54-6(a). New industrial discharges do not include the repair and/or replacement within the footprint of an existing structure.
- (7) Any projects that may result in discharges, such as discharges of wash waters, that are regulated under Section 402 of the CWA. Wash waters include, but are not limited to, vehicle wash waters, wheel wash waters, concrete truck wash waters, equipment wash waters, container wash waters, and any other type of wash waters. For any projects involving such discharges to State waters, applicants shall apply for and obtain a National Pollutant Discharge Elimination System (NPDES) permit from the CWB.
[Authorization: HRS § 342D-50(a)]

3. General Conditions

The applicant of the activity/discharge shall:

- a. Maintain records at the project site or in the nearby field office demonstrating that all Blanket Certification requirements have been fully complied with. [Authorization: HRS § 342D-55]
- b. Report any non-compliance with the conditions of this Blanket Certification to the USACE POH via e-mail to CEPOH-RO@usace.army.mil with the USACE POH project number in the e-mail subject line. This Blanket Certification is a condition of the USACE POH permit.⁴ Do not report or submit compliance related information to the DOH. [Authorization: HAR § 11-54-1.1]
- c. Ensure that all activities are conducted in a manner that will comply with applicable State water quality requirements as specified in HAR Chapter 11-54.
- d. Ensure that the activities will not permanently interfere or become injurious to any designated uses and/or existing uses of the receiving State water. Any permanent adverse impacts to the designated uses and/or existing uses of the receiving State water are violations of HAR Chapter 11-54. [Authorization: HAR §§ 11-54-1.1, 11-54-4(a)(4), 11-54-5, 11-54-6, 11-54-7]
- e. Ensure, for activities conducted in a stream, ditch, or gulch, that unimpeded flow around the in-water work area is maintained to allow for aquatic animal migration and/or to prevent work site and downstream flooding situations. The unimpeded flow shall be equivalent to a two-year, twenty-four-hour duration storm event and/or the existing flow capacity of the stream, ditch, or gulch. Pumped diversions may be utilized if the stream, ditch, or gulch is dry or there is only standing/ponded water without the existence of living aquatic animals. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-5, 11-54-6, 11-54-7, 11-54-8]

⁴ For any projects that are granted USACE POH coverage under Item 2.c, non-compliance reports from USACE POH shall be submitted to CWB.

- f. Ensure that all material(s) placed or to be placed in State waters are free of waste metal products, organic materials, debris, and any pollutants at toxic or potentially hazardous concentrations to aquatic life. No construction material or construction related materials shall be stockpiled in the aquatic environment or stored or placed in ways that will disturb the aquatic environment. [Authorization: HAR § 11-54-4(c)]
- g. Ensure that pollution control measures and BMPs are utilized that prevent water pollutants from leaving the in-water work area authorized by the USACE POH permit.⁵ Any visual plume emanating from the authorized in-water work area is a violation of State water quality requirements. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-4(a)(3), 11-54-5, 11-54-6, 11-54-7, 11-54-8]
- h. Ensure that pollution control measures and BMPs are utilized for all upland project activity to minimize the discharge of water pollutants into State waters, including the designated in-water work area. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-4(a), 11-54-5, 11-54-6, 11-54-7, 11-54-8]
- i. Ensure that BMPs utilized for all activities are inert and not sources of pollution themselves. Examples of inappropriate in-water porous material BMPs include but are not limited to: compost filter socks since they are a source of nutrients; and soil berms since soil particles will erode. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-4(a)(4), 11-54-5, 11-54-6, 11-54-7, 11-54-8]
- j. Ensure that appropriate catchment/detention devices are used to collect activity/discharge related water pollutants (e.g., construction debris; airborne particulates; dust; concrete slurry; concrete chips; concrete surface preparation washing effluent; excess water and overflow from boring related activity, horizontal directional drilling slurry; etc.) from localized work areas and to minimize or prevent the release of these water pollutants into State waters, including the in-water work area. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-4(a), 11-54-5, 11-54-6, 11-54-7, 11-54-8]

⁵ For any projects that are granted USACE POH coverage under Item 2.c, the relevant in-water work area is identified in the USACE POH project.

- k. Ensure that all areas temporarily impacted, either directly or indirectly, by the project construction activities are fully restored to its pre-construction conditions. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-4(a)(4), 11-54-5, 11-54-6, 11-54-7, 11-54-8]

- l. Ensure that all construction debris from any portion of the activities (including but not limited to debris caused by hydraulic saws, water jets, or drilling equipment) are contained and prevented from entering or re-entering State waters. All construction debris and sidecast material shall be properly removed from the aquatic environment and disposed of at an upland State and county approved site. Before the start of the activities, a Solid Waste Disclosure Form for Construction Sites shall be submitted to the DOH Solid and Hazardous Waste Branch (SHWB). The disclosure form is available on the e-Permitting Portal at: <https://eha-cloud.doh.hawaii.gov/epermit/>. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-4(a)(1), 11-54-4(a)(2), 11-54-5, 11-54-6, 11-54-7, 11-54-8]

- m. Adhere to the following guidelines for any projects that involve dredging/excavation activities:
 - (1) The applicant shall determine if the project site including the authorized in-water work area is listed as a contaminated or potentially contaminated site at the DOH Hazard Evaluation and Emergency Response (HEER) Office System at: <https://eha-cloud.doh.hawaii.gov/iheer#!/home>.⁶ If contaminated soil, sediment, vapor, or groundwater is known to be present at the project site, the applicant shall contact the HEER Office at (808) 586-4249 and submit the Notification of Construction Activities (HEER Office) Form to inform the HEER Office of soil disturbing activities. The form is available on the e-Permitting Portal at: <https://eha-cloud.doh.hawaii.gov/epermit/>. The applicant shall notify the HEER Office at least 90 days prior to surface and subsurface disturbing activities that may disturb the ground surface at the project site. If the 90-days prior notification is missed, the applicant shall notify the HEER Office as soon as possible to avoid any potential delays regarding the project.

⁶ The HEER Office is currently updating information for sites and not all sites are displayed on the website. Site document data transfer is ongoing and not all site documents are currently available via the website. To get the complete record for a specific site, a record request form can be filled and submitted to the HEER Office.

- (2) The applicant shall contain on land return flow or runoff from upland dredged spoils dewatering site(s)/disposal site(s), including the confined disposal facility (CDF), which shall be contained on land and not allowed to discharge and/or re-enter State waters without first obtaining the required discharge permit from USACE-POH or CWB. Unless authorized by a USACE-POH or NPDES permit, the applicant cannot allow any runoff, return flow, or airborne particulate pollutants from the excavated or dredged material dewatering or stockpiling site, including the CDF, to enter or re-enter State waters.
 - (3) Warning signs shall be properly deployed and maintained until the portion of the in-water work is completed and the affected area water quality has returned to its initial condition and turbidity control devices have been removed from the waterway.
 - (4) Sand plug removal may be performed by dredging sand using cranes, excavators, backhoes, bulldozers, tire loaders, and/or track loaders or opening a small breach 2 to 3 feet wide in the sand plug using hand tools or small excavator and/or loader and allowing the flowing stream water to further open the sand plug. Any trash and debris shall be removed first prior to the sand plug removal. Sand pulled for the plug may be side cast on the beach adjacent to the stream mouth. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-5, 11-54-6, 11-54-7, 11-54-8]
- n. Adhere to the following guidelines for any projects that involve moorings:
- (1) Avoid locating moorings (including anchors and floats) in sensitive aquatic habitats such as coral reefs, fish spawning areas, and submerged aquatic vegetation (unless location is acceptable to the Department of Land and Natural Resources, Division of Aquatic Resources or the National Oceanic Atmospheric Administration).
 - (2) Ensure moorings (including anchors and floats) are made of clean, inert material. Treated lumber shall not be used as it may contain compounds that can be released into the water and become toxic to the aquatic environment. [Authorization: HAR § 11-54-4(a)(4)]


- (3) Pre-cast and cure concrete anchors, if required, away from State waters prior to use to prevent seepage of potentially toxic substances into the waterbody. [Authorization HAR § 11-54-4(a)(4)]
 - (4) Locate moorings in depths that allow structures and vessels to remain afloat at the lowest possible water levels and that prevent propellers from disturbing bottom sediments.
 - (5) Select mooring anchors of an adequate size to secure vessels or structures and prevent the anchor from shifting or dragging along the bottom of the State water.
 - (6) Size the length of mooring lines, chains, or cables to avoid excess line, chain, or cable accumulation on the bed of the State water. [Authorization: HAR § 11-54-4(a)(1)]
 - (7) Ensure native beach material such as logs, sand, gravel, and boulders that are important components of fish habitat are not used as mooring structures and are left in place on the foreshore.
 - (8) Properly dispose of derelict or unused floats, lines, chains, or cables in accordance with appropriate laws and rules. [Authorization: HAR §§11-54-4(a)(1), 11-54-4(a)(2)]
 - (9) Ensure moorings are kept in good repair by regularly inspecting and maintaining the structure. Mooring maintenance must be performed into perpetuity (or until it is properly disposed of) or it will itself become a pollution source. [Authorization: HAR §§ 11-54-1.1, 11-54-4, 11-54-5, 11-54-6, 11-54-7, 11-54-8]
4. USACE POH shall e-mail to the CWB (cleanwaterbranch@doh.hawaii.gov and reef.migita@doh.hawaii.gov) a PDF copy of all issued final verifications. This Blanket Certification coverage shall become valid with respect to an activity only when USACE POH notifies CWB via e-mail of a project authorization/verification and conditions of this Blanket Certification have been incorporated as part of the USCE POH final verification.⁷

⁷ Item 4 does not apply to activities that do not require a pre-construction notification.

If you agree with the terms and conditions of this Blanket Certification, please sign and date below; make a copy for your administrative record; and submit this entire letter with your original signature to CWB within fourteen (14) calendar days from your signature date.

If you have any questions, please contact Mr. Reef Migita of the CWB Engineering Section at (808) 586-4309.

Sincerely,


for
KENNETH S. FINK, MD, MGA, MPH
Director of Health

- c: Ms. Jennifer Martin, USACE POH Regulatory Office
[via e-mail jennifer.l.martin@usace.army.mil only]
- USACE POH Regulatory Office [via e-mail CEPOH-RO@usace.army.mil only]
- DBEDT, Office of Planning and Sustainable Development, CZM Program
[via e-mail dbedt.op.czm@hawaii.gov only]
- DLNR, Division of Boating and Ocean Recreation
[via e-mail dlnr.bd@hawaii.gov only]
- DLNR, Division of Aquatic Resources [via e-mail dlnr.aquatics@hawaii.gov only]
- DOH SHWB [via e-mail shwb@doh.hawaii.gov only]
- DOH HEER [via e-mail heernotify@gmail.com only]
- DOH DHO (Hawaii, Maui, Kauai)

I AGREE WITH THE TERMS AND CONDITIONS OF THIS LETTER:

MS. SARA W. LONGAN
REGIONAL REGULATORY CHIEF
U.S. ARMY CORPS OF ENGINEERS, HONOLULU DISTRICT

DATE



US Army Corps of Engineers
Honolulu District
BUILDING STRONG®

DEPARTMENT OF THE ARMY PERMIT COMPLIANCE CERTIFICATION

File Number: POH-2025-00123

Project Title: HDOT, Slip Cover #4 Bridge Repairs, Honolulu Harbor, Honolulu, Island of Oahu, HI

PERMIT TYPE: Nationwide Permit #03, (Maintenance)

NAME OF PERMITTEE: Mr. Lawrence Dill, Hawaii Department of Transportation-Highways, 869 Punchbowl St., Honolulu, HI 96813

DATE OF ISSUANCE: April 10, 2026

DATE OF EXPIRATION: March 15, 2031

The permittee must, upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address or via email within thirty (30) days of completion of work:

U.S. Army Corps of Engineers, Honolulu District
Regulatory Office
Building 230, CEPOH-RO
Fort Shafter, HI 96858-5440
Email: CEPOH-RO@usace.army.mil

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of this permit, you are subject to permit suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

ENCLOSURE 3
Addendum No. 2
5/6/26