# STRUCTURAL GENERAL NOTES

## Reinforcement (Cont.):

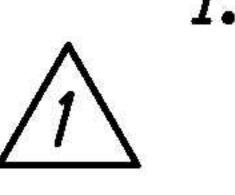
- F. Reinforcing bars shall be securely tied at all intersections and lap splices except where the spacing of the intersections is less than 12-inches in each direction, in which case alternate intersections shall be tied.
- G. Unless otherwise noted, reinforcing splices shall be staggered. Minimum distance between staggered lap splice shall be equal to the length required for the lap splice. Number of bars spliced at sections normal to axis of member shall not exceed 50 percent of the total main reinforcing in the member.
- H. Minimum lap splice length for steel reinforcing shall be 40 bar diameters or 2'-0", whichever is greater, unless otherwise noted. Increase lap length by 1.3 for bars having more than 12" of fresh concrete below bars.

### General Construction Notes:

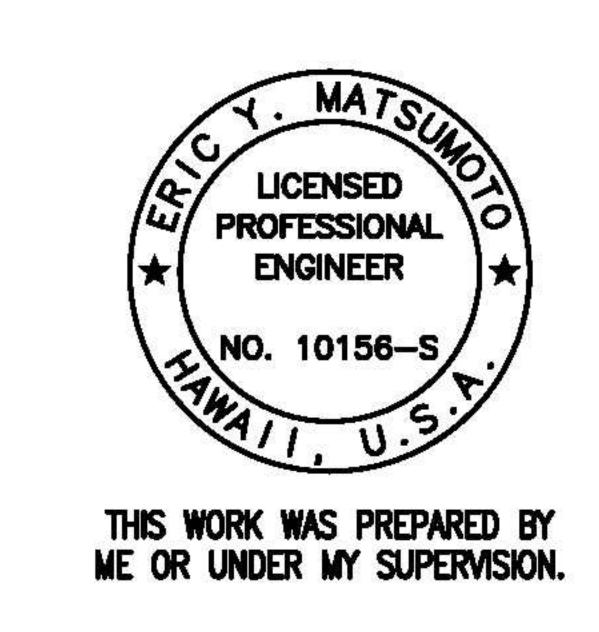
- A. The Contractor shall be responsible for obtaining As-Builts of the existing structures. As-Built plans of the existing City and County structures are available for review from the City \* County of Honolulu, Department of Design and Construction, Civil Division, Bridge \$ Structures Section, 650 S. King Street, Honolulu, HI 96813. As-Built plans of the existing HDOT structures are available for review from the Highways Design Branch located at the State Department of Transportation, Highway Division, Kakuhihewa Building, Room 809, 601 Kamokila Boulevard, Kapolei, HI 96707. The Contractor shall verify all dimensions and site conditions and shall report any discrepancies in writing to the Engineer before commencing work or ordering supplies.
- B. The Contractor shall verify all site conditions and not rely upon these plans for existing viaduct azimuths, stream channel locations, roads, roadway gutters, curbs and sidewalks, etc. Conditions may differ from those shown.
- C. The Contractor shall be solely responsible for the protection of adjacent properties, utilities and existing and new structures from damage due to construction. Repairing any damage shall be at the Contractor's own expenses, to the satisfaction of the Engineer.
- D. Unless otherwise noted, all vertical dimensions are measured plumb.
- Unless otherwise noted, all exposed concrete surfaces shall be chamfered 3/4" x 3/4".
- F. If the Contractor removes sound concrete more than 50% of the depth of the existing concrete bridge deck, then the Contractor will be responsible for performing a full depth repair upon approval of the Engineer at no increase in contract time and price. Contractor shall provide full depth repair details and traffic control for approval.

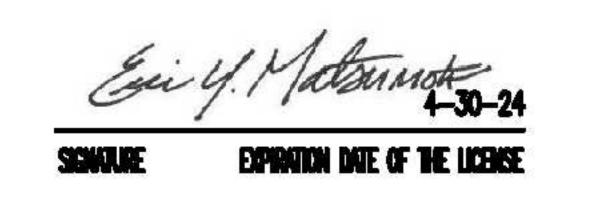
#### HAWAII HAW. NH-H1-1(273) 2022 ADD. 104 245 General Construction Notes (Cont.):

- G. The Contractor shall submit working drawings and calculations for the proposed formwork details needed during full depth concrete repairs. All drawings and calculations shall be stamped by a State of Hawaii licensed Structural Engineer and a licensed Civil Engineer specializing in geotechnical engineering. The drawings and calculations shall be found acceptable by the Engineer before any construction work is to proceed.
- H. Do not remove concrete adjacent to previously placed VESLMC until previously placed VESLMC has cured for a minimum of 24-hours, unless otherwise approved by the Engineer.



- I. Contractor shall maintain the existing 1-inch wide white guidelines (2 guidelines) used to deploy and to store the Zipper barrier for all phases of construction. Construction layout lines shall not interfere with the Zipper guidelines. If \( \) the guidelines are damaged, removed, or overlaid during construction, the Contractor shall re-establish the guidelines prior to the nightly deployment of the Zipper barrier.
- J. All phases of construction shall not interfere with Zipper operations.
- K. Construction Sequence, See Sheets S12.1, S12.2, and S12.3.





Date: Sept. 2022

STRUCTURAL GENERAL NOTES

STATE OF HAWAI'I

DEPARTMENT OF TRANSPORTATION

INTERSTATE ROUTE H-1 AIRPORT VIADUCT IMPROVEMENTS VICINITY OF VALKENBURGH ST. TO MIDDLE ST., PH. 3 FEDERAL-AID PROJECT NO. NH-HI-1(273)

Add. 1 - Revised Note Scale: None

REVISION

**S0.4** OF **5** SHEETS


## General Specifications:

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

- A. Very Early Strength Latex Modified Concrete (VESLMC) shall produce a rapid-setting material capable of achieving 3000 psi compressive strength within 3-hours. See section 682 -DEFECTIVE CONCRETE REPAIRS of the Special Provisions.
- B. A penetrating sealer shall be used to fill cracks on the existing bridge deck and shall rapidly cure to allow return to traffic within 3-hours. See section 683 - PENETRATING SEALER FOR BRIDGE DECKS of the Special Provisions.
- C. Surface treatment shall produce an impermeable layer on top of the penetrating sealer and shall rapidly cure to allow return to traffic within 3-hours. See section 680 - SURFACE TREATMENT of the Special Provisions.
- D. Hybrid Polymer Concrete (HPC) shall produce a rapid setting material capable of achieving 1000 psi in 3-hours. See section 678 - HYBRID POLYMER CONCRETE (HPC) of the Special Provisions.

#### Reinforcement:

- Unless otherwise noted, the clear covering measured from the surface of the concrete to the face of any reinforcing steel bars shall be as follows:
  - (1) Deck
    - a) Top bars = 1 1/2"
  - (2) All others = 2"
- Reinforcing steel shall conform to ASTM A706 W, Grade 60 deformed bars unless otherwise noted.
- Minimum clear spacing between parallel bars shall be 1 1/2 times the maximum size of the coarse aggregate or 1 1/2 inches, whichever is greater, except when bundled.
- Reinforcing bars shall be placed and installed in accordance with the CRSI Manual of Standard Practice and CRSI Placing Reinforcing Bars, unless otherwise noted.
- E. Existing reinforcing shall not be damaged during demolition work, unless otherwise permitted.



ADD. 238