

GENERAL NOTES

- 1. The exact locations and limits or areas for spall repairs shall be determined in the field by the Engineer.
- 2. All reinforcing steel to be ASTM A 615 Grade 60.
- 3. All welding shall be done in accordance with the current edition of the Reinforcing Steel Welding Code AWS DI.4.

REPAIR NOTES:

1. All deteriorated, damaged, cracked, spalled, honeycombed concrete (asphalt, Portland cement, magnesium phosphate and/or polyurethane) or concrete over corroded reinforcing bars shall be removed as shown and repaired with repair concrete.

face of exist.

concrete

Hatched Area Denotes Approx. Damaged Area From Which Loose or Unsound Concrete has been Partially Removed.

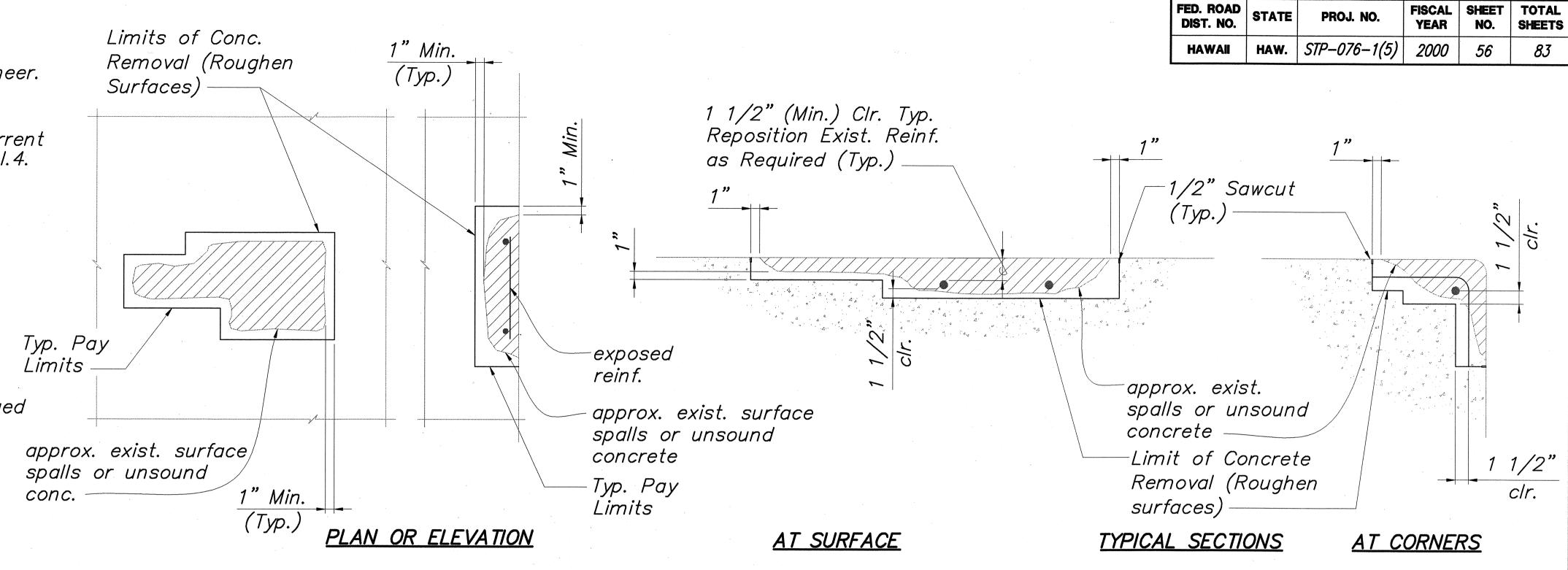
Limits of Conc. Removal or Conc. Patch (see Detail this Sheet)

- 2. Provide minimum 1 1/2" concrete cover over reinforcement.
- 3. Reinforcing bars that have corroded more than 25% of their original cross sectional area shall be strengthened as shown on "Reinforcing Bar Repair Splice Detail", this sheet.
- 4. The Engineer shall determine all areas to be repaired and the limits of repair at each area.
- 5. Apply silane waterproofing to patch area and adjacent 6" of exist. surfaces as approved by the Engineer. Application shall be according to the manufacturer's recommendations.

INCIDENTAL ITEMS:

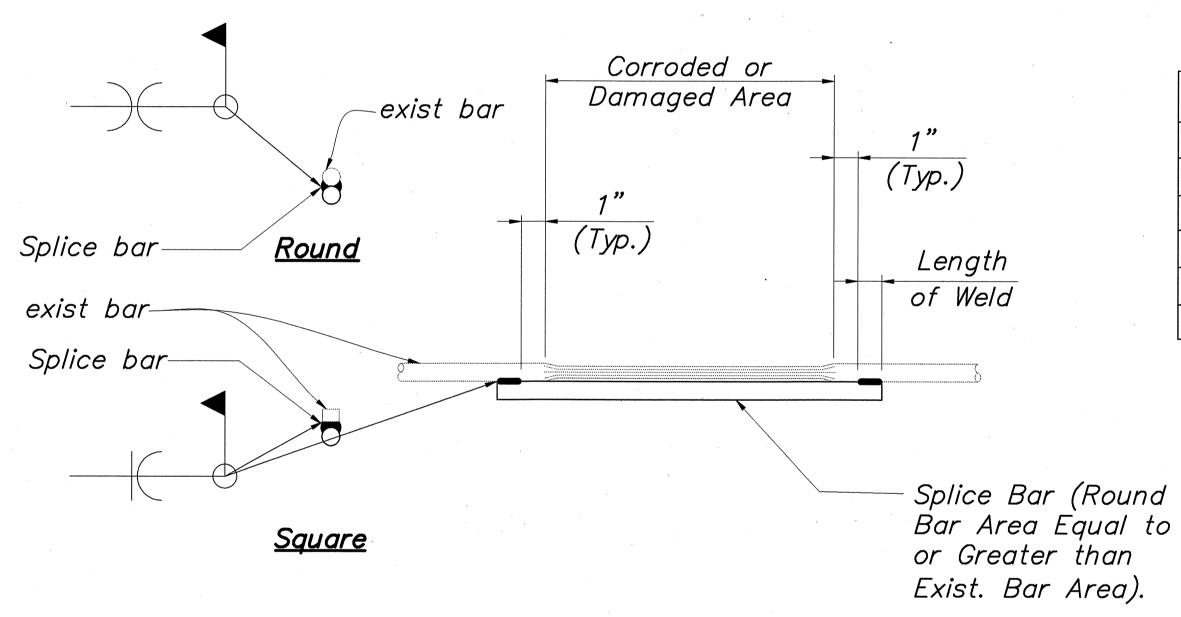
The following items shall be considered incidental to the various pay items or repairs and will not be paid for separately:

- 1. Cleaning of all exposed, corroded reinforcing steel to sound metal.
- 2. Reinforcing bars of repair splice for strengthening corroded bars.
- 3. Cutting, and/or repositioning existing reinforcing bars or doweling reinforcing bars into the existing concrete deck.
- 4. Replacing all pavement markers and striping damaged during the construction of this project.
- 5. Furnishing and applying silane waterproofing material.



TYPICAL CONCRETE REPAIRS

NOT TO SCALE



WELD SCHEDULE FOR REINF. SPLICE			
REINF. SIZE	WELD SIZE	WELD LENGTH	
#4	1/4"	1"	
#5	5/16"	1 1/4"	
#6	3/8" 1 1/2"		
#7	7/16" 1 3/4"		
#8	1/2"	2"	

REINFORCING BAR REPAIR SPLICE DETAIL

NOT TO SCALE

ESTIMATED QUANTITIES			
ITEM NO.	ITEM	QUANTITY	UNIT
675.0100 675.0200	Curb Spall Repair — Cane Haul Underpass Railing Spall Repair — Honouliuli Bridge	80* 7.5*	LIN. FT. SQ. FT.

* Indicates estimated overrun



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Julan

	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
	SPALL REPAIR DETAILS
N. 0	<u>FORT WEAVER ROAD RESURFACING</u> of Laulaunui St. to the Vicinity of Hanakahi St.

N. of Laulaunui St. to the Vicinity of Hanakani S

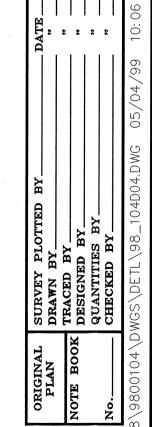
F. A. Project No. STP-076-1(5)

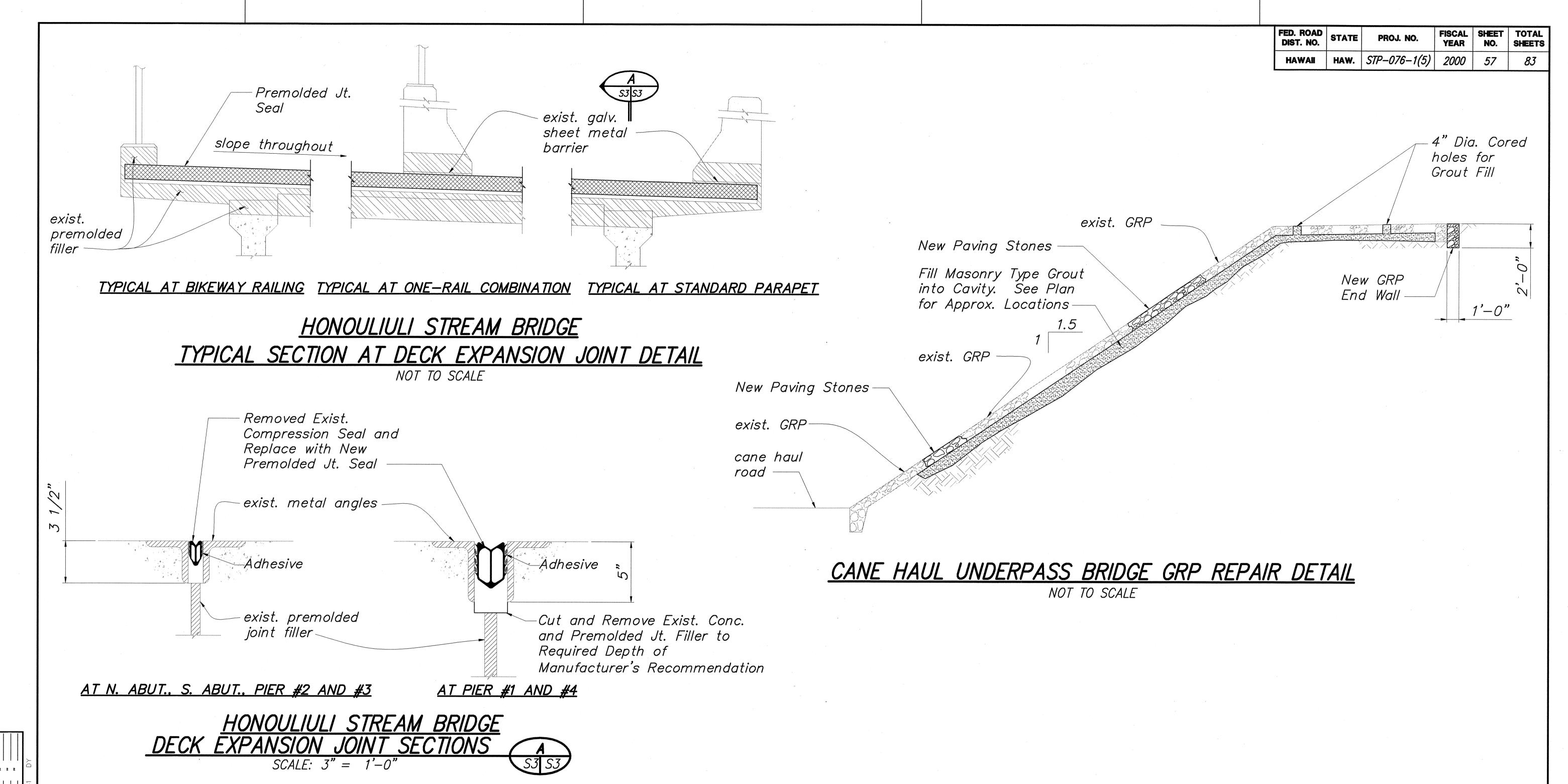
Scale: As Noted October 1999

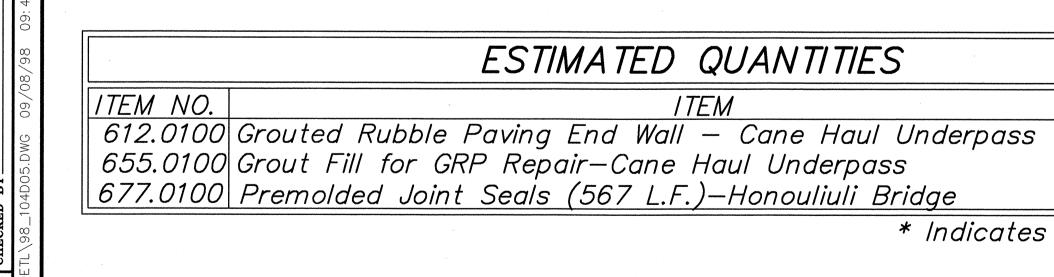
SHEET No. S2 OF 3 SHEETS

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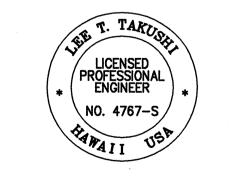
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ESTIMATED QUANTITIES QUANTITY UNIT CU. YD. 200* CU. YD. L.S. * Indicates estimated overrun



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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

EXPANSION JOINT REPLACEMENT <u>DETAILS</u>

FORT WEAVER ROAD RESURFACING N. of Laulaunui St. to the Vicinity of Hanakahi St. F. A. Project No. STP-076-1(5) Scale: As Noted October 1999

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