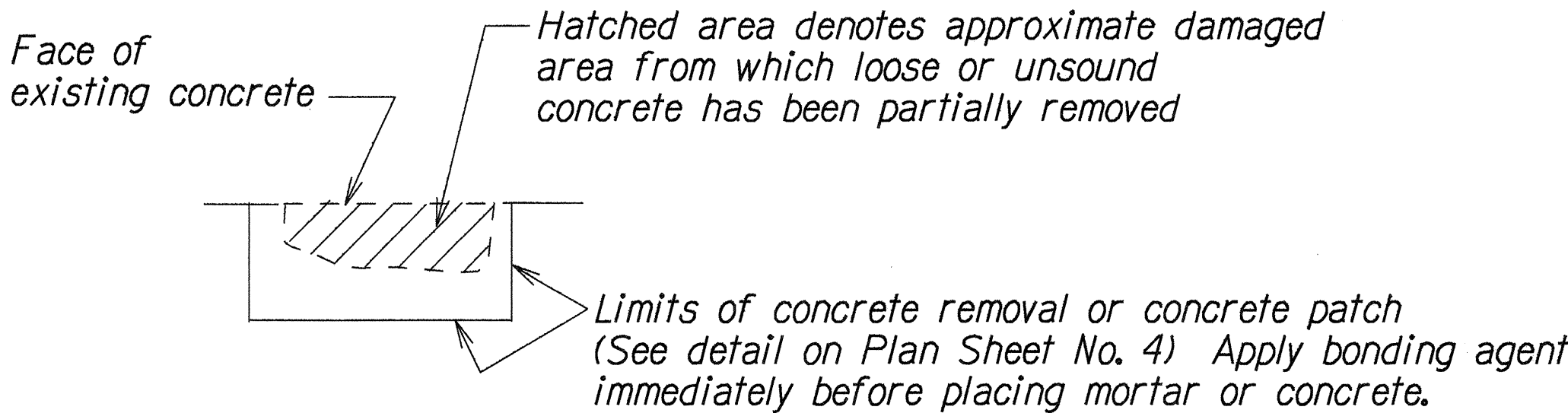


GENERAL NOTES

1. The scope of work for this project consists of removing and disposing of damaged concrete apron, construction of new concrete apron , repairing of spalls, and construction of grouted rubble paving.
2. The Contractor is reminded of the requirements of Subsection 108.01 - Subletting of Contract, which requires him to perform work amounting to not less than 50 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
3. The Contractor's attention is directed to the following Sections of the Special Provisions : Subsection 107.13 - Public Convenience and Safety; Subsection 107.21 - Contractor's Responsibility For Utility Property And Services; and Section 645 -Traffic Control.
4. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.
5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. Existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to various contract items.
7. The contractor shall provide for access to and from all existing side streets at all times.
8. All reinforcing steel to be ASTM A615 Grade 40.
9. All welding shall be done in accordance with the current edition of the Reinforcing Steel Welding Code AWS D1.4.
10. Prior to submitting his bid, the Contractor shall conduct on-site field investigations of the work sites. The Contractor shall include in his bid price the costs for providing his own access road to each of the work sites. Payment for providing site access roads shall not be paid for separately, but shall be considered incidental to the various pay items of repair.
11. The following items shall be considered incidental to the various pay items of repair and will not be paid for separately:
- a. Bolts and other miscellaneous hardware including hot-dipped zinc-coating and 2 x 2-w1.4 x w1.4 welded wire fabric.
 - b. Cleaning of all exposed, corroded reinforcing steel to sound metal.
 - c. Reinforcing bars and welding of repair splice for strengthening corroded bars.
 - d. Furnishing and application of Hydrozo Waterproofing Material.
 - e. Furnishing and application of epoxy bonding agent .
 - f. Furnishing and installing expansion joint material.

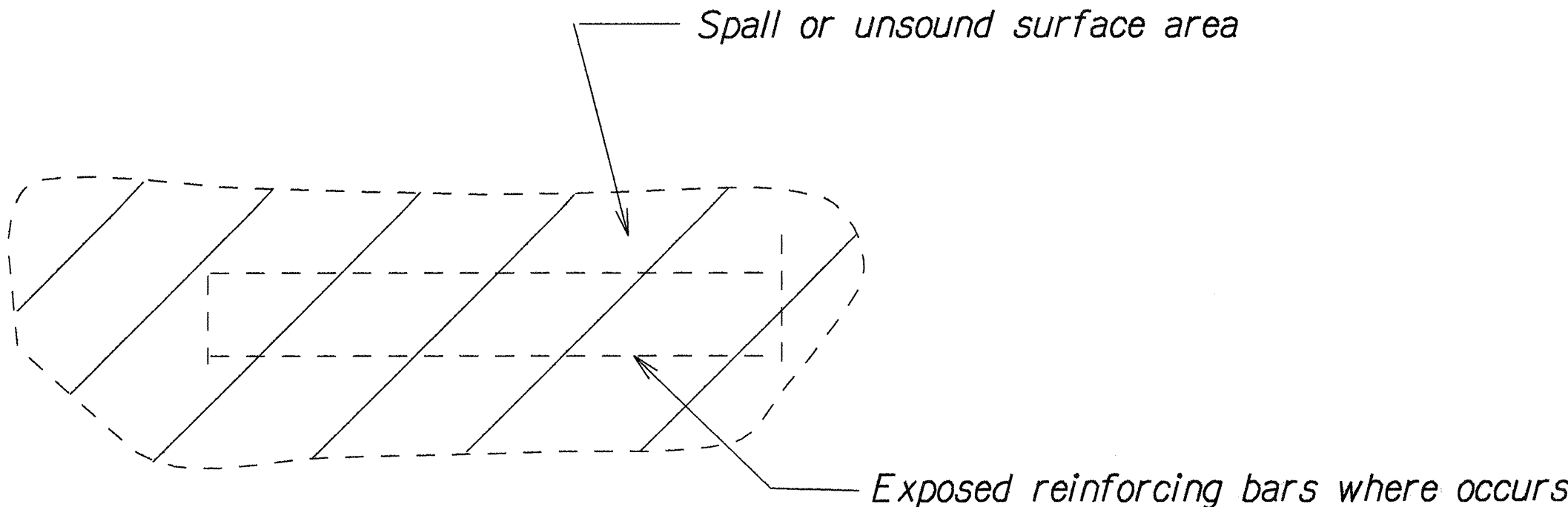
REPAIR NOTES

1. All deteriorated, damaged, cracked, spalled, or honeycombed concrete or concrete over rusted reinforcing bars shall be removed as shown and repaired with hand-placed mortar or shotcrete.



2. Provide minimum 2" concrete cover over reinforcement or welded wire fabric. See specifications for welded wire fabric requirements.
3. Reinforcing bars that have rusted more than 25% of their original cross sectional area shall be strengthened as shown on the "Reinforcing Bar Repair Splice Detail ". See detail on Plan Sheet No. 4.
4. The Engineer shall determine all areas to be repaired and the limits of repair at each area.
5. Apply Hydrozo Waterproofing , or equivalent, as recommended by the manufacturer, to repaired areas as approved by the Engineer.

Symbols



ESTIMATED QUANTITIES

| ITEM NO. | ITEM | QUANTITY | UNIT |
|----------|---|----------|---------|
| 202.0100 | REMOVAL OF STRUCTURES & OBSTRUCTIONS | 8 | C.Y. |
| 503.0020 | CONCRETE IN APRON (CLASS A) | 10 | C.Y. |
| 603.0010 | BED COURSE MATERIAL FOR CULVERT (APRON) | 26 | CU. YD. |
| 612.0100 | GROUTED RUBBLE PAVING | 15 | CU. YD. |
| 676.1000 | REPAIR OF SPALLS | 246 | SQ.FT. |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | 56D-02-95M | 1995 | 3 | 5 |

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|----------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| DESIGNED BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| 6/23/95 | |
| N. K. H. H. H. H. H. | |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL & REPAIR NOTES

Kuhio Highway-Repair of Box Culverts
at M.P. 24.20 and M.P. 25.30
Proj. No. 56D-02-95M

Scale: : As Shown Date: August, 1994

SHEET No. 1 OF 1 SHEETS