

2:1 (typ.)

Dashed lines-

see Repair Notes

REFLECTED SPAN CEILING PLAN Not to Scale

5'-0"

max. (typ.) max. (typ.) 5'-0" max.

Balance

5'-0"

NOTE!

5'-0"

max.

Slab damaged over a large area shall be repaired in sections (A) & (B) as shown. The sequence of repair for each section shall be as follows:

1. Repair section A.
2. Start repair of section B 7 days after placing mortar for section (A).

The necessity for sectional repairs will depend on the amount of reinforcing bars that has to be exposed and cleaned. The Engineer shall determine the necessity for sectional repairs after portions of the steel have been exposed.

AT CORNER

AT SURFACE

Dashed lines-

see Repair Notes

TYPICAL SECTIONS

1" cl. at reinf.

TYPICAL REPAIRS AT CONCRETE SPALLS Not to Scale

1"cl. at reinf.

-Limits of sound conc. remova

Galv. welded wire fabrio, 2x2 |x1

W1.4 x W1.4 & 1/4 "Phooked expansion

bolts (Galv.) 12"o.c. max. ea. direction, for areas 1 ft 2 or greater and as directed by the Engineer.

Existing bar -5) 45 Splice bar-I" typical LVILLEngth of weld Corroded area Existing bar ← Splice bar - (Round bar same or greater area as existing bar) Splice bar YPICAL REINF, BAR REPAIR SPLICE DETAIL Not to Scale

FED. ROAD FISCAL SHEET YEAR DIST. NO. NO. SHEETS HAW. 560-01-82M 1982

GENERAL NOTES

REPAIR NOTES:

1. 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 sht.). Apply bonding agent immediately before placing mortar or conc.

All deteriorated, damaged, cracked, spalled, honeycombed concrete or concrete over rusted reinforcing bars shall be removed as shown and repaired with hand placed mortar or shotcrete. The Engineer shall determine all areas to be repaired and the limit of repair at each area.

- 2. Provide minimum 2" concrete cover over reinforcement or wire mesh. 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 Repair Splice Detail this sheet

INCIDENTAL ITEMS: The following items shall be considered incidental to the various pay items of repairs & shall not be paid for separately.

- Expansion bolts & other miscellaneous hardware including hot-dipped galvanized and welded wire fabric.
- 2. Cleaning of all exposed, corroded reinforcing steel to sound metal.

3. Reinforcing bars of repair splice for strengthening corroded bars.
4. Approximate existing ground lines (as shown on plans) and water levels under the structure may vary due to seasonal, tidal; and dam conditions at stream outlets. If necessary, the contractor shall lower the water level or ground line to perform his work.

GENERAL:

the Hooked expansion

All reinforcing steel to be ASTM A 615 Grade 40.

- 2. All welding shall be done in accordance with the Reinforcing Steel Welding Code AWS D1.4-79.
- 3. Maintenance of traffic see Standard Specs, sub-section 104.04.
- 4. Repairs to the underside of slab shall be made in sections and sequences as indicated in note at left.
- 5, All welded wire fabric shall conform to ASTM A185.

SYMBOLS & ABBREVIATIONS

Exposed reinf. bars where occurs.

- S.S. - Surface spall (Concrete) S.C. - Surface crack (Concrete)

f; sq. ft.; S.F. - Square feet L.F. - Linear feet

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

REHABILITATION & REPAIRS TO BRIDGE

TYPICAL DETAILS

Proj. No. 56D-01-82M Date: June 1981 Scale: As Noted

SHEET No. / OF / SHEETS