

SECTION 03924

STRUCTURAL CONCRETE REPAIR

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Restore to sound condition:
 - 1. Column
 - 2. Pedestal
 - 3. Bent Cap
 - 4. Pier Cap
 - 5. Diaphragm
 - 6. Wingwall
 - 7. Abutment Backwall
 - 8. Beam End

1.2 RELATED SECTIONS

- A. Section 03922: Delamination Repair
- B. Section 03935: Epoxy Injection and Sealing

PART 2 PRODUCTS

2.1 MATERIALS

- A. Refer to Section 03922 and Section 03935.

2.2 BEAM END REPAIR SURFACE SEALING MATERIAL

- A. Penetrating type.
- B. Select from the Accepted Products Listing (APL) maintained by the UDOT Research Division.

PART 3 EXECUTION

3.1 CRACK REPAIR

- A. Repair cracks from 1/64 inch to 1/4 inch wide by epoxy injection and sealing. See Section 03935.
- B. Repair cracks greater than 1/4 inch wide as “delaminated concrete.”

3.2 DELAMINATION REPAIR

- A. Repair delaminated concrete by delamination repair. Refer to Section 03922.
- B. Beam End Delamination Repair: Use a patching concrete.
- C. After concrete removal:
 - 1. Repair any crack found in a delaminated area according to Section 03935.
 - 2. After the injection operation, apply surface sealing after repairing the delaminated area.
- D. When surface sealing after crack injection and delamination repair operations:
 - 1. Use epoxy sealer for surface sealing exclusively.
 - 2. Apply sealer to a minimum beam length of 4 ft covering all surfaces in that beam segment.

END OF SECTION