

Maintenance Specification

SECTION 00856

INFRARED BITUMINOUS SEAMLESS PAVEMENT REPAIR

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Products, procedures and equipment to provide a seamless repair of bituminous pavement by the application of evenly distributed infrared heat to aid in the reworking and remixing of the existing asphalt mix.

1.2 RELATED SECTIONS Not Used

1.3 REFERENCES Not Used

1.4 DEFINITIONS Not Used

1.5 SUBMITTALS

- A. Provide manufacturer's product data, equipment specifications and material specifications as part of the bid package. Failure to do so will constitute a non responsive bid and the bid will be rejected.

1.6 ACCEPTANCE

- A. Repair area to match existing grade, be tightly compacted, have a skid resistant surface, and tightly bonded to the existing adjacent pavement. Tightly bonded is defined as thermally, chemically reconstructed where resulting pavement is continuous without seams.

1.7 MEASUREMENT

- A. Square foot of the accepted repaired area at the measured depth of repair.

1.8 PAYMENT

- A. Accepted repaired quantities paid for at the contract unit price per square foot at the measured depth of repair per Attachment D.

PART 2 PRODUCTS

PART 3 EXECUTION

3.1 CLEAN REPAIR AREA

- A. Thoroughly sweep the general area to be repaired to remove dirt and debris. Use moisture for dust control as needed to prevent reduced sight distance for traffic.

3.2 MARK AND MEASURE REPAIR AREA

- A. Mark and measure the specific area to be repaired in coordination with the Department's representative.

3.3 CONSTRUCTION

- A. Heat area to be repaired to a sufficient temperature using infrared heat to allow remixing of the asphalt without oxidation or burning.
 - 1. Do not exceed a surface temperature of 350 degrees F.
- B. Using a mechanical tiller, scarify and thoroughly mix the repair area to depth of 2 inches.
- D. Reshape repair area by hand to match grade of adjacent pavement.
- E. Compact the surface with a steel drum roller. The surface should be smooth, tight, and matching the grade of the adjacent pavement.
- F. Sand should be evenly distributed over the surface to fill small voids and absorb excess sealant if surface sealant is applied.

3.4 WARRANTEE

- A. The contractor will warrantee the repair for 18 months and repair any failures at no expense to the department. UDOT may help by providing traffic control.
- B. Failure to meet the warrantee requirements constitutes a breach of contract
- C. Failure is defined as the following:
 - a. Greater than 5% cracking in the repaired area
 - b. Greater than 5% raveling of material from the repaired area
 - c. Rutting more than 15 mm
 - d. Not providing a seamless repair

3.5 FINAL CLEAN UP

- A. Sweep up and dispose of excess material and debris to the satisfaction of the Department's representative.

3.6 OPEN TO TRAFFIC

- A. Allow the repaired area to cool to 175 degrees F before opening to traffic.

3.7 LIMITATIONS

- A. Repair any damage caused by the operation at no expense to the Department.

END OF SECTION