

## **ITEM 17 ASPHALT PATCH**

### **17.1 DESCRIPTION**

Patching shall consist of the repair of localized failures of existing pavement, areas removed for curb and gutter forms, areas between the curb and gutter and sidewalk and the existing paved parking lots, and areas designated on the plans. These areas will be restricted to small areas which require hand placement or box spreader methods and conventional paving equipment can not be utilized. The minimum repair shall be 3 feet in both length and width. Sections shall be repaired to the specified depth, with the type of materials and in conformance with the details shown on the plans.

### **17.2 MATERIALS**

The Asphalt Patch materials shall meet the following requirements and will be subject to the approval of the **AGENCY**. Small quantities of materials, testing of materials may be waived by the **AGENCY**. Unless otherwise shown on the plans, existing material removed from the roadway shall not be reused under this Item. Hot mix asphalt materials shall conform to the requirements outlined in Item 9 of these specifications. The **AGENCY** shall select the mix grading, mix design compaction level, and binder grade suitable for the use.

### **17.3 CONSTRUCTION REQUIREMENTS**

Existing HMAP shall be removed from locations shown on the plans or as directed by the **AGENCY**. Where only a portion of the material is to be removed, special care shall be exercised to avoid damage to that portion of the material to remain in place. The **CONTRACTOR** shall replace at his expense and as directed by the **AGENCY**, any material that he damages or destroys, which is beyond the limits established for removal. A saw shall be furnished to make a vertical cut through the pavement and into the base. The cut shall be of sufficient depth to permit the removal of the pavement on a neat, straight line without leaving a ragged edge or damaging adjacent pavement. The depth of the cut shall be varied due to changes in thickness of Pavement.

When failure of the subgrade has occurred, the unstable subgrade material shall be removed to the depth specified by the **AGENCY** and replaced with flowable fill per item 18.2.1.

The HMAP planned to be salvaged shall be broken into pieces not greater than 24 inches in any direction. Salvage material shall be kept as free as possible from contamination by non-asphalt materials during removal, transport, and stockpiling.

#### 17.3.1 Subgrade Preparation

Subgrade preparation shall be in accordance with Item 5

#### 17.3.2 Spreading and Finishing

A tack coat shall be applied to all vertical surfaces. The tack coat shall meet the requirements found in Item 9.

The HMAP shall be laid upon an approved surface, spread and struck off to obtain the required grade and elevation after compaction with the least amount of segregation of HMA. The number of lifts shall be planned to obtain maximum 3-inch thick lifts to reach final grade. Final replacement thickness shall be in accordance with the original Pavement Design Report for the facility or equal to the existing section, whichever is greater. The mixture shall be placed approximately 25 percent thicker than the surrounding mat thickness to account for consolidation from compaction. Casting of mix or raking shall not be permitted.

Each layer shall be rolled or tamped as directed, until a uniform compaction is secured. Compaction shall be 94 percent plus or minus 2 % of Maximum density (CP-51. Compaction of less than 92 percent will be cause for rejection. All irregularities, depressions, or weak spots which develop shall be corrected immediately by removing and replacing or adding material as required, and compacted.

#### 17.4 MEASUREMENT

Removal of HMAP will be measured by the area in square yards, completed to the full depth and accepted. In areas where material is excavated, at the direction of the AGENCY, to depths greater than those specified on the plans, measurement will be made by dividing the actual depth of such area by the plan depth, and then multiplying this figure by the area in square yards of work performed. Calculations for each repaired area shall be rounded up to the nearest 0.10 square yard.

#### 17.5 PAYMENT

The work performed and the material furnished in accordance with this Item and measured as provided will be paid for at the unit price bid for "Asphalt Patch," of the specified depth. This price shall be full compensation for cutting the existing pavement structure; removal, hauling, spreading, disposal or stockpiling of existing pavement; removal of any objectionable or unstable material; furnishing all materials, including tack coat and surfacing; and for all hauling, sprinkling, spreading, compaction, and all other manipulations, labor, tools and incidentals necessary to complete the work.

| <u>Item</u> | <u>Description</u> | <u>Pavement</u>    |
|-------------|--------------------|--------------------|
| 17.1        | Asphalt Patch      | \$/yd <sup>2</sup> |