

## SECTION 321216 - ASPHALT PAVING

## PART 1 - GENERAL

## 1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and hot-mix asphalt design mixes.
- B. Regulatory Requirements: Comply with requirements of the City of Jacksonville for asphalt paving work.
- C. Asphalt-Paving Publication: Comply with AI MS-22, "Construction of Hot Mix Asphalt Pavements," unless more stringent requirements are indicated.
- D. Driveways: Subject to the requirements homes of with historical significance, lot fit and ability of site to accommodate, each home may have an asphalt, concrete, or brick/concrete paver driveway, from the street to the garage or carport area and at least as wide as such area. An asphalt driveway shall be a minimum of one and one-quarter (1.25") inches thick.**

## PART 2 - PRODUCTS

## 2.1 MATERIALS

- A. Hot-Mix Asphalt for Driveways and Sidewalks: Dense, hot-laid, hot-mix asphalt plant mixes approved by authorities having jurisdiction and designed according to procedures in AI MS-2, "Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types."
  - 1. Sub-base: **12" minimum LBR 40, compacted to 98% max density** AASHTO T-180.
  - 2. Limerock: **6" compacted to minimum LBR 75, 100% max density**, AASHTO T-180.
  - 3. Surface Course: **1.25 Type S-3, 1500 lb.**
  - 4. Provide mixes with a history of satisfactory performance in geographical area where Project is located and complying with ASTM D 3515 for the following nominal, maximum aggregate sizes.
    - a. Base Course: N\A
    - b. Surface Course: 3/8"
- B. Tack Coat: AASHTO M 140 emulsified asphalt, or AASHTO M-208 cationic emulsified asphalt, slow setting, diluted in water, of suitable grade and consistency for application.

## PART 3 - EXECUTION

## 3.1 PAVING

- A. Tack coat existing asphalt or concrete surfaces and allow tack coat to cure undisturbed.
- B. Place hot-mix asphalt to required grade, cross section, and thickness. Promptly correct surface irregularities in paving course.
  - 1. Spread mix at minimum temperature of **250 deg F**.
- C. Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or vibratory-plate compactors in areas inaccessible to rollers. Complete compaction before mix temperature cools to **185 deg F**.
- D. Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness.
- E. Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted to **92 percent** of reference maximum theoretical density according to ASTM D 2041.
- F. Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.
- G. While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.
- H. Remove and restore paved areas that are defective or contaminated.

END OF SECTION 321216