



ADDENDUM NO. 4
REQUEST FOR INFORMATION
BID 5007: ASPHALT OVERLAY AND STRIPING TO PLAYGROUNDS AND
PARKING LOTS AT SEVEN DISTRICT SCHOOL SITES

Proposal Due Date Remains: OCTOBER 27, 2009 2:00 PM

QUESTIONS AND ANSWERS:

Q1: Is this an asphalt overlay project or a slurry seal coat and stripe project?

A1: Bid 5007 is an asphalt overlay and striping job which involves a one inch asphalt overlay at the areas shown in the Contract Documents. The striping will require re-striping existing schemes in the playgrounds and parking lot. Please see the attached Asphalt Specification. The District standard for striping is Pervostripe 6000 - 5G, White and Pervostripe 3033 - 1G Handicap Blue. The paint product can be obtained at ICI Paints in Santa Maria.

Q2: Please give provide direction as to whether or not a conform grind is required at all edges.

A2: A conform grind is required at all concrete edges. Match existing conditions at all other areas.

Addendum Number Four forms a part of the Contract Documents and modifies the Bidding Documents dated October 2009 as noted. Acknowledgement of receipt of Addendum Number Four in the space provided on the Bid Form is required. Failure to do so may result in the Bid being deemed Non-Responsive.

ALL OTHER REQUIREMENTS, TERM AND CONDITIONS REMAIN THE SAME.

SECTION 02740 - ASPHALT CONCRETE PAVING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: This section covers the work necessary for construction of the asphalt concrete leveling course and surface course used for paving roadways and parking areas, and the repair and replacement of existing pavement that has been disturbed by trenching or other construction.
- B. Related Sections:
1. See Division 1 - General Requirements, which contain information and requirements that apply to the work specified herein.
 2. State of California Department of Transportation Standard Specifications, dated July 2002, herein referred to as "Standard Specifications".

1.2 SUBMITTALS

- A. Submittals during construction shall be made in accordance with Division 1, General Requirements, supplemented by those submittals required by PART 2 - PRODUCTS hereinafter.
- B. Product data: Within 35 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:
1. Materials list of items proposed to be provided under this Section;
 2. Certificates, signed by the materials producer and the asphalt paving subcontractor, stating that materials meet or exceed the specified requirements.

1.3 QUALITY ASSURANCE

- A. Standards: The following shall form a part of this specification and shall have the same force as if reproduced in total herein:
1. Standard Specifications.
 2. Materials Manual of Testing and Control Procedures, State of California, Business and Transportation Agency, Department of Transportation, herein after referred to as "Materials Manual".
 3. ASTM D 1577 shall be used for the method of performing compaction tests.

PART 2 - PRODUCTS

2.1 ASPHALT

- A. Asphalt concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant.
1. Asphalt concrete shall be as required by jurisdiction.
 2. Grade of asphalt shall be AR-4000.
 3. Density shall be 95% of maximum laboratory density as determined by California Test Method 304.
 4. Stability shall be 30 minimum.

5. Mineral aggregate shall be Type B, ½" maximum size aggregate, medium grading, and shall conform to the requirements set forth in Section 39 of the Standard Specifications.
6. Drying, proportioning and mixing of the materials shall conform to Section 39 of the Standard Specifications.

2.2 AGGREGATE - NOT INCLUDED

- A. ~~Aggregate base shall conform to the provisions of Section 02720 Aggregate Base and as provided herein.~~
 1. ~~The grading of the aggregate shall be "¾ - inch Maximum, Medium" as described in Standard Specifications, except in conform or overlay areas the grading shall be ¾ - inch maximum.~~
- B. ~~Sampling and testing will not be required. The Contractor shall provide test results as indicated in this section.~~

2.3 COMPOSITION OF MIXTURE

- A. At least thirty (30) days prior to producing any of the mixture for use in the paving, the Contractor shall submit to the Engineer for approval a job - mix formula which meets the requirements herein specified. No asphalt pavement work shall be undertaken by the Contractor until the Engineer has reviewed the job - mix formula.
- B. The Contractor shall be responsible for locating an acceptable source of aggregate. All tests confirming the suitability of the material for the purpose intended shall be obtained by the Contractor at the Contractor's expense. Certified copies of the aggregate test results from an independent testing laboratory shall be furnished to the Engineer for review at least one week prior to delivery of aggregate to the site or use of aggregate in asphalt concrete.
- C. The Contractor shall make arrangement and pay for preparation of the asphalt concrete job mix formula. The job - mix formula for the asphalt concrete mixture shall establish the percentage of aggregate passing each sieve size, and the percentage of bituminous material to be added to said aggregate, and the temperature at which test results from a qualified, independent testing laboratory confirming the job - mix formula shall be submitted by the Contractor to the Engineer for review at least two weeks prior to the start of asphalt concrete paving. Any proposed deviations from the original job - mix formula shall be resubmitted by the Contractor for review. Test results of aggregate used in asphalt shall be provided as indicated in this section.
- D. The job - mix formula shall indicate the gradation of each of the several aggregate constituents to be used in the mixture and shall establish the exact proportion of each constituent to be used to produce a combined gradation of aggregate within the appropriate limits stated above.
- E. After a job - mix formula is established and reviewed, all mixtures furnished under this Contract shall be conform to the requirements and tolerances as stated in these Specifications.

2.4 WEED CONTROL

- A. Spray applied herbicide, currently approved for designated use by all applicable agencies, including air pollution control jurisdiction.

PART 3 - EXECUTION

3.1 PREPARATION OF ROADWAY - NOT INCLUDED

- A. Subgrade shall be fine graded per Section 02300 Earthwork and Section 02335 Subgrade and roadbed. The finished subgrade shall be tested and approved by the Geotechnical Engineer prior to the placement of aggregate base.
- B. Thoroughly blend base course aggregate on the job site. Construction shall conform to applicable portions of Section 26 of Standard Specifications. Base material shall be placed, watered as required and mechanically compacted until a relative compaction of 95% has been obtained for the entire thickness of the base. Each layer of base course shall be tested and approved by the testing laboratory prior to the placement of successive layers. Compacted base thickness shall be as indicated on the drawings.
- C. Apply herbicide chemical to all areas to receive paving in strict accordance with the printed instructions of the manufacturer. Take all necessary safety precautions to protect against damage or injury due to its poisonous nature. No weed-control chemical is to be applied to areas designated for planting.
- D. A tack coat of asphalt applied at the rate of 0.05 to 0.12 gallons per square yard shall be applied uniformly to all vertical surfaces to which asphalt concrete is to be placed.
- E. The tack coat shall be emulsified asphalt. The emulsified asphalt may be mixed with water at the rate of 1 to 2 parts water to 1 part of emulsified asphalt.

3.2 ASPHALT CONCRETE PAVEMENT

- A. The proportioning and mixing of asphalt concrete shall conform to the provisions of Section 39 of the Standard Specifications and as provided herein. The pounds of asphalt per 100 pounds of dry aggregates shall not vary by more than 5% above or 10% below the amount indicated in the job - mix formula. This requirement shall apply to samples taken from a single batch, successive batches, at different locations in the production plant, or at any location on the construction site.
- B. Paint binder shall be applied in conformance with Section 39 of the Standard Specifications.
- C. Spreading equipment and methods shall conform to the provisions of Section 39 of the Standard Specifications. No asphalt concrete shall be placed on any section of compacted aggregate base that has not been reviewed by the Geotechnical Engineer.
- D. The asphalt concrete shall be compacted in accordance with the provisions of Section 39 of the Standard Specifications except that the weight and pressure of the Contractor's pneumatic tired roller will be reviewed, but not designated or approved, by the Geotechnical Engineer.
- E. Conform areas associated with placement of asphalt concrete shall conform to the provisions of Section 39 of the Standard Specifications.

3.3 PLACEMENT OF ASPHALT CONCRETE PAVING

- A. Install the specified headers and stakes to achieve the arrangement of paving shown on the drawings. All unconfined edges shall be confined with 2 inch by 4 inch redwood header staked with a 1 inch by 3 inch redwood stake 18 inches minimum at 6' on-center. Two 1 inch by 4 inch may be used for curves. Offset all joints by 2 feet.
- B. Remove all loose materials from the compacted base.
- C. Apply the specified tack coat where required, and allow to dry, in accordance with the manufacturer's recommendations as approved by the Engineer.
- D. Adjust frames, covers and utility vaults, if so required, to meet final grades.
- E. Do not accept receipt of asphalt concrete material unless it is covered with a tarpaulin until unloaded, and unless the material has a temperature of not less than 280 degrees Fahrenheit.

3.4 CONNECTIONS WITH EXISTING FACILITIES

- A. Where it is necessary to remove existing asphalt surfaces or oil mat surfaces to provide proper meet lines and riding surfaces, the Contractor shall burn or chip the existing surface so that there will be sufficient depth to provide a minimum of one inch of asphalt concrete, and the waste material shall be disposed of to the satisfaction of the Engineer and Federal, State and Local Ordinances. Prior to placing the asphalt concrete these areas shall be tacked. Meet lines shall be straight and the edges vertical. The edges of meet lines cuts shall be painted with liquid asphalt or emulsified asphalt prior to placing asphalt concrete. After placing the asphalt concrete, the meet line shall be sealed by painting with a liquid asphalt or emulsified asphalt and immediately covered with clean, dry sand.
- B. Prior to laying the second strip of asphalt concrete pavement, the edge of the first strip laid and other contact surfaces such as curbs, manhole frames, and similar materials shall be painted with emulsified asphalt or liquid asphalt to provide closely bonded watertight joints. This work shall be done in a manner that will prevent staining adjacent surfaces not intended to be coated.

3.5 COMPACTION

- A. Rolling shall continue until all roller marks are eliminated and a minimum density of 140 pcf has been obtained.
- B. Field density tests shall be made by a commercial testing laboratory retained by the Owner, and the test results submitted to the Geotechnical Engineer for review.

3.6 JOINTS

- A. The placing of the top or wearing course shall be as nearly continuous as possible, and the roller shall pass over the unprotected end of the freshly laid mixture only when the laying of the course is discontinued for such length of time as to permit the mixture to become chilled.

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PART 2 - PRODUCTS

2.1 ASPHALT

- A. Asphalt concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at a central mixing plant.
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 2. Grade of asphalt shall be AR-4000.
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 4. Stability shall be 30 minimum.

- B. When the work is resumed the previously compacted mixture shall be cut back to produce a slightly beveled edge of the full thickness of the course. The material which is cut away shall be wasted and new mix shall be laid against the fresh cut. Rollers or tamping irons shall be used to seal the joints.

3.7 SURFACE TOLERANCE

- A. Tests for Conformity with the specified crown and grade shall be made by the Contractor immediately after initial compression. Any variation shall be immediately corrected by the removal or addition of materials and by continuous rolling.
- B. The completed surface of the top of wearing course shall be of uniform texture, smooth, uniform as to crown and grade and free from defects of all kinds. The completed surface shall not vary more than 1/8 inch from the lower edge of a 10 foot straight edge placed on the surface parallel to the centerline.
- C. After completion of the final rolling, the smoothness and grade of the surface shall again be tested by the Contractor.
- D. When deviations in excess of the above tolerances are found, the pavement surface shall be corrected by the addition of asphalt concrete mixture of an appropriate class to low places or the removal of material from high places by methods satisfactory to the Engineer, or by removal and replacement of the wearing course of asphalt concrete. Correction of defects shall be carried out until there are not deviations anywhere greater than the allowable tolerances.
- E. All areas in which the surface of the completed pavement deviates more than twice the allowable tolerances described above shall be removed and replaced to the satisfaction of the Engineer.
- F. All costs involved in making the corrections of defects described above shall be borne by the Contractor and no compensation will be made for this work.

3.8 SAMPLES

- A. The contractor shall, without additional charge, provide the Geotechnical Engineer with test results of samples of asphalt concrete cut from the completed pavement or the individual courses thereof. The minimum number of test cores shall be two per day during paving. The number of cores shall be increased if problems are indicated. The contractor shall also provide the Geotechnical Engineer with test results or samples of the uncompressed asphalt concrete mixtures, and all materials incorporated in the work.

3.9 UNFAVORABLE WEATHER

- A. Asphalt concrete shall not be placed when the atmospheric temperature is less than 40 degrees F nor during heavy rainfall.

3.10 ALLOWABLE TOLERANCES

A. Surface Smoothness:

1. The surface of the finished base course shall not vary more than $\frac{3}{8}$ inch, plus or minus, in 10 feet.
2. The surface of the finished asphalt concrete shall not vary more than $\frac{1}{4}$ inch, plus or minus, in 10 feet.

B. The compacted paving or base course thickness shall not vary more than $\frac{1}{4}$ inch, plus or minus, based on an average of five (5) measurements per 10,000 square feet, taken at randomly selected locations by testing laboratory.

C. Provide hot plant mixed asphalt concrete paving materials:

1. Temperature leaving the plant shall be 290 degrees Fahrenheit minimum, 320 degrees Fahrenheit maximum.
2. Temperature at time of placing shall be 280 degrees Fahrenheit minimum.

END OF SECTION