



CITY OF WORCESTER, MASSACHUSETTS



Administration & Finance
Purchasing Division
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May 26, 2022

To All Bidders:

Subject: **Bid No. 7814-W2, Indian Hill Park Improvements – Phase II / DPWP**

ADDENDUM NO. 3

To Whom It May Concern:

With reference to our bid request relative to the above subject, please refer to the changes/modifications/clarifications to the original proposal request.

- **PLEASE SEE BELOW QUESTIONS RECEIVED AND RESPONSES FROM CITY**

Q. Spec 321216 for Bituminous Concrete is missing from the technical specs. Can you please provide it?

A. Yes, please see attached specification section.

Bidders are requested to acknowledge and/or include this addendum with bid. All other terms, conditions and specifications remain unchanged.

Very truly yours,

Christopher J. Gagliastro
Purchasing Director

**SECTION 321216
BITUMINUOUS CONCRETE**

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. The City of Worcester Bid Form, General Conditions, Supplementary Conditions and applicable parts of the Project Special Conditions form a part of this Specification and the Contractor shall consult them in detail for instructions.

1.02 SUMMARY

- A. Provide all labor, equipment, materials and perform all operations necessary to complete the work of this section as indicated within the drawings and specified herein which shall include but is not limited to the following:
 - 1. Install Hot-Mixed Asphalt Paving for driveways and parking areas over prepared sub-base.
 - 2. Provide Hot-Mixed Asphalt Paving for the basketball court and install color surfacing system.
 - 3. Install Hot-Mixed Asphalt Paving for pedestrian walks.
- B. Related Work: The following sections contain requirements that relate to this section.
 - 1. Division 2 Section 310000 – Earthwork, for the preparation of the sub-base.
 - 2. Division 2 Section 321723 – Pavement Markings, for markings in parking areas.

1.03 SUBMITTALS

- A. General: Contractor to submit the following in accordance with conditions of Contract, the Project Special Conditions, and these Specifications.
 - 1. Material Certificates signed by material producer and Contractor, certifying that each material item complies with or exceeds specified requirements.
 - 2. Sampling and testing results documenting density of completed pavement for binder and of top courses installed.
 - 3. Submit literature and samples of the basketball court color surfacing system for review and approval. Samples shall define color, job formula mix, grit size, thickness, and chemical properties associated with each layer for surfacing the court including painted lines.

1.04 SITE CONDITIONS

- A. Weather Limitations: Apply hot-mixed asphalt surface course when atmospheric temperature is above 40 degrees F and when base is dry. Base binder course may be placed when air temperature is above 30 degrees F and rising.
- B. Grade Control: Establish and maintain required lines and elevations.

1.05 STANDARDS

1. Except as modified by governing codes and by the Contract Documents, comply with applicable provisions and recommendations of the following:
 1. Standard Specifications and Details: City of Worcester, Department of Public Works and Parks Engineering Division.
 2. Standard Specification: Commonwealth of Massachusetts, Department of Public Works, Standard specifications for Highways and Bridges, most current edition, including Section 460 Class I Bituminous Concrete Paving Type I-1 and Supplemental Specifications.
 3. AASHTO: American Association of State Highway and Transportation Officials, latest edition.
 4. ASTM: American Society for Testing and Materials, latest edition.

1.06 QUALIFICATIONS

1. The bituminous concrete work installed under this Section shall be performed by a firm or firms having a minimum of five (5) years of acceptable experience in the installation of materials specified herein on projects comparable to this project. Submit references to the Owner's Representative or Project Manager for approval prior to commencing work of this section.

1.07 WORK CONDITIONS/SEQUENCE

1. If sub-contractors find that conditions are not appropriate for them to begin the work of their trade or if they are directed to perform their work out of sequence by the General Contractor or if the General Contractor directs sub-contractors to start and continue regardless of job conditions, the sub-contractor shall so notify the Owners Representative in writing by certified mail immediately.
2. General Contractor shall provide and pay for all dumpster services during the entire construction period. Suppliers and Sub-Contractors to bring all rubbish and debris to the dumpster location daily. No costs are to be assessed to the suppliers or Sub- Contractors by the General Contractor for this service

PART 2 - PRODUCTS

2.01 MATERIALS

- A. General: Materials shall conform to Section M3 Bituminous Materials of the Standard Specifications for Highways and Bridges, Massachusetts Highway Department, hereinafter referred to as Mass. Specifications.
 1. TYPE I-1 Binder
 2. TYPE I-1 Top Course

PART 3 - EXECUTION

3.01 SURFACE PREPARATION

- A. General: Comply with provisions of Massachusetts Specifications for installation of Class

- I bituminous concrete.
- B. Proof-roll prepared sub-base surface to check for unstable areas and areas requiring additional compaction.
- C. Notify Contractor and or Owners Representative of unsatisfactory conditions. Do not begin paving work until deficient sub-base areas have been corrected and are ready to receive paving.

3.02 PLACING MIX

- A. Place mix in accordance with provisions of the Standard Specifications for Highways and Bridges, Massachusetts Highway Department, as amended to date.

3.03 ROLLING, REPAIR, COURT FINISH, INSPECTION OF SURFACE COURSES

- A. Rolling and Repair in accordance with provisions of the Standard Specifications for Highways and Bridges, Massachusetts Highway Department, most current edition.
- B. Before completing operations, the Owner's Representative and Project Manager will inspect top course, upon notification by the contractor. Inspection shall be for visual appearance of even regular finish texture with no projections, ridges or honeycombed areas. Contractor shall correct unacceptable areas.
- C. Line Stripping:
 - 1. Paint lines to standard basketball court dimensions or as indicated in drawings. Use mechanical aids so that lines are true and straight. Hand-brushed painting is not permitted. Apply two coats per manufacturer's recommendations.
 - 2. Do not apply paint until layout and placement have been verified by Owner's Representative.

3.04 QUALITY CONTROL

- A. Plant Inspection: The Contractor shall provide test results from random sampling of each one hundred (100) tons of bituminous concrete material supplied of binder and of top. Testing shall be in accordance with the Standard Specifications for Highways and Bridges, Massachusetts Highway Department, as amended to date. Results of tests shall be provided to the Owner's Representative or Project Manager not later than the next business day.
- B. Field Inspection:
 - 1. Density of completed pavement shall be tested for each one hundred (100) tons of binder and of top. Contractor shall provide sampling and testing in accordance with 460.21 of the Standard Specifications for Highways and Bridges, Massachusetts Highway Department, as amended to date.
 - 2. Surfaces shall be tested in accordance with 460.67 of the Standard Specifications for Highways and Bridges, Massachusetts Highway Department, as amended to date. Contractor shall provide for Surface Testing during paving operations.
 - 3. The Contractor shall contact the Owner's Representative for an inspection after each layer of surfacing is placed on the basketball court.

END OF SECTION