

ADDENDUM #1

SPECIFICATIONS

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1.2 ADD – SECTION 32 12 16 ASPHALT PAVING

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- 2. Post Detail
- 3. Center Strap Anchor

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- 1. Manufacturer General Volleyball Notes
- 2. Hook Collar Pole
- 3. Pulley Wheel Pole
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CUTSHEET SUPPLEMENT

Tennis Court:
Net Elevations
Net Post Detail
Center Strap Anchor

Sand Volleyball Court:
Manufacturer General Volleyball Notes
Hook Collar Pole
Pulley Wheel Pole
Net Antennae
Padding
General Net and Footing Notes
Netting
Volleyball Sand Elevation
Pro Volleyball Beach Sand

DETAIL DRAWINGS

Bid Set 10-06-2017

SECTION 321216 - ASPHALT PAVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Tennis Court Hot-mix asphalt paving.
2. Tennis Court Hot-mix asphalt overlay.

B. Related Requirements:

1. Section 312000 "Earth Moving" for subgrade preparation, fill material, separation geotextiles, unbound-aggregate subbase and base courses, and aggregate pavement shoulders.
2. Section 321373 "Concrete Paving Joint Sealants" for joint sealants and fillers at pavement terminations.

1.2 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For each paving material. Include statement that mixes containing recycled materials will perform equal to mixes produced from all new materials.

1.3 QUALITY ASSURANCE

- A. Materials and methods of construction shall comply with the requirements of Ohio Department of Transportation (ODOT) Construction and Materials Specifications, and the American Sports Builders Association Specifications.

B. Allowable Tolerances:

1. Planarity: No deviation from specified grade in excess of 1/8 inch when checked with a 10' straight edge.
2. Slope: On the track is to be 1% to 1 ½% outside to inside. Tennis court the same in specified slope direction on plans.
3. All bird baths shall be repaired at no additional expense to the owner by the asphalt contractor to the satisfaction of the surfacing contractor and Athletic Department of the school.

PART 2 - PRODUCTS

2.1 AGGREGATES

- A. #304 stone at 6" thickness minimum
- B. Washed #57 stone and drainage tile trench

2.2 ASPHALT MATERIALS

- A. Leveling Course: ODOT 402 at 1 ½" thickness minimum.
- B. Surface Course: ODOT 404 at 1 ½" thickness, 100% limestone aggregate minimum. No slag or recycled asphalt aggregate is permitted.

2.3 AUXILIARY MATERIALS

- A. Herbicide: Commercial chemical for weed control, registered by the EPA, and not classified as "restricted use" for locations and conditions of application. Provide in granular, liquid, or wettable powder form.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Establish and maintain required lines and grade elevations.
- B. Protect adjacent work from splashing or paving materials.
- C. Provide temporary barriers, warning lights and other protection as necessary. Remove when directed or when no longer required.
- D. Apply asphaltic surface course when base is dry and temperature is 50 degrees Fahrenheit or above.
- E. Excavate topsoil and unsatisfactory materials to established grade elevations approximately 8"-10" deep and dispose of as specified.
- F. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
- G. Install 6" of #304 stone and compact with vibratory roller.

3.2 SURFACE PREPARATION

- A. Trench and install 4" perforated PVC plastic pipe around exterior of tennis courts.
- B. Depth of trench to be established at 30" below surface of track/finish grade.
- C. Trench to be 12" in diameter and to be back filled and compacted using washed #57 aggregate.
- D. Pipe to be minimum of 1' from edge of tennis court asphalt edge. Stone base under track should connect with stone around pipe to allow a free flow of water from under track to pipe
- E. Drain pipe away from courts minimum of 25 feet and install a small gravel pit for drainage if there is not an existing swale for drainage
- F. Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.

- G. Herbicide Treatment: Apply herbicide according to manufacturer's recommended rates and written application instructions. Apply to dry, prepared subgrade or surface of compacted-aggregate base before applying paving materials.

3.3 PLACING HOT-MIX ASPHALT

- A. Tennis Courts: Install asphalt surface materials in two (2) courses, for a total of 3" minimum of compacted asphalt.
 - 1. Leveling course 1 ½" thick after compaction.
 - 2. Surface course over leveling course 1 ½" thick after compaction and to be 100% Limestone Tennis Court Mix.
- B. Machine place hot-mix asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand in areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.
 - 1. Spread mix at a minimum temperature of 250 deg F.
 - 2. Regulate paver machine speed to obtain smooth, continuous surface free of pulls and tears in asphalt-paving mat.
- C. Place paving in consecutive strips not less than 10 feet wide unless infill edge strips of a lesser width are required.
- D. Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.

3.4 JOINTS

- A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
 - 1. Clean contact surfaces and apply tack coat to joints.
 - 2. Offset longitudinal joints, in successive courses, a minimum of 6 inches.
 - 3. Offset transverse joints, in successive courses, a minimum of 24 inches.
 - 4. Construct transverse joints at each point where paver ends a day's work and resumes work at a subsequent time. Construct these joints using either "bulkhead" or "papered" method according to AI MS-22, for both "Ending a Lane" and "Resumption of Paving Operations."

3.5 COMPACTION

- A. General: 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 with vibratory-plate compactors in areas inaccessible to rollers.
 - 1. Complete compaction before mix temperature cools to 185 deg F.

- B. Breakdown Rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.
- C. Intermediate Rolling: 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 the following density:
 - 1. Average Density: 92 percent of reference maximum theoretical density according to ASTM D 2041/D 2041M, but not less than 90 percent or greater than 96 percent.
- D. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.
- E. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.
- F. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
- G. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked, minimum 48 hours.

3.6 INSTALLATION TOLERANCES

- A. Pavement Thickness: Compact each course to produce the thickness indicated within the following tolerances:
 - 1. Base Course: Plus or minus 1/2 inch.
 - 2. Surface Course: Plus 1/4 inch, no minus.
- B. Pavement Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot straightedge applied transversely or longitudinally to paved areas:
 - 1. Base Course: 1/4 inch.
 - 2. Surface Course: 1/8 inch.
 - 3. Crowned Surfaces: Test with crowned template centered and at right angle to crown. Maximum allowable variance from template is 1/4 inch.

3.7 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Replace and compact hot-mix asphalt where core tests were taken.
- C. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

END OF SECTION 321216