



SPECIAL PROVISIONS
FOR
SALVAGE AND REUSE OF HISTORIC CLAY PAVERS

Lee County

STBG-SWAP-2697(633)--SG-56

Effective Date

February 16, 2021

**THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING
MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND SHALL
PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

155081.01 DESCRIPTION.

- A. This part of the Specifications includes all labor, materials, equipment, and supervision required to remove/salvage, stockpile, and re-install historic clay pavers along 4th Street.
- B. This section includes the specifications for historic clay pavers, geotextile fabric, sand setting bed, paver joint filler, modified subbase, and paver and joint filler installation.

1.01 QUALIFICATIONS

- A. Every installer shall demonstrate that they have installed pavers for projects of a similar nature, with regard to installation of at least 300,000 square feet.
 - 1. Paver Installer's Qualifications
 - a. Installer shall provide installation history, including references in writing with contact information, demonstrating to the satisfaction of the owner their ability to perform the paver installation and related work indicated in the plans and specifications.
 - b. The installer shall have suitably experienced personnel and a management capability sufficient to execute the work shown on the contract plans and specified herein.
 - c. The installer's foreman shall demonstrate, including references, a minimum of 5 years' experience in the installation of unit paver systems similar in size and nature to this project.

1.02 DEFINITIONS

- A. Method Statement: The paver installer's plan for construction and quality control of the pavers.

1.03 SUBMITTALS

- A. Submit Method Statement and Quality Control Plan.

1.04 SITE DISTURBANCES

- A. Take precautions to ensure equipment and vehicles do not disturb or damage existing site grading, walks, drives, utilities, plants, etc.
- B. Repair and/or return to original condition any damage caused by Contractor's negligence at no cost to Contracting Authority.
- C. Provide temporary barricades and warning lights as required for protection of project work and public safety.

155081.02 MATERIALS.**2.01 HISTORIC CLAY PAVERS**

- A. Second-hand masonry units shall not be reused unless they conform to the requirements of new units (ASTM C902). The units shall be of whole, sound materials and free from cracks and other defects that will interfere with proper laying or use. Old mortar and debris shall be cleaned from the unit before reuse.
- B. In the event pavers are damaged during removal or do not meet the quality and performance requirements outlined in Section 2.01 A, Contracting Authority does have an additional stockpile of salvaged pavers from previous projects available for use. Contractor shall coordinate directly with Contracting Authority in the event that they need additional pavers to complete the work

2.02 GEOTEXTILE FABRIC

- A. Section 4196 of Standard Specifications.

2.03 SAND SETTING BED

- A. Sand shall be a layer of sharp, washed aggregate beneath the pavers conforming to ASTM C 33.
- B. Sieve according to ASTM C 136.
- C. Submit sand gradation analysis for approval.
- D. Bedding sand material requirements shall conform to the requirements of ASTM C 33 with the modifications shown in the table below

ASTM C 33	
<i>Sieve Size</i>	<i>Percent Passing</i>
3/8 in.	100
No. 4	95 to 100
No. 8	85 to 100
No. 16	50 to 85
No. 30	25 to 60
No. 50	10 to 30
No. 100	2 to 10
No. 200	0 to 1

2.04 JOINT FILLER

Grading Requirements for Joint Filler Sand:

	ASTM C 144 Natural Sand	ASTM C 144 Manufactured Sand
<i>Sieve Size</i>	<i>Percent Passing</i>	<i>Percent Passing</i>
No. 4	100	100
No. 8	95 to 100	95 to 100
No. 16	70 to 100	70 to 100
No. 30	40 to 75	40 to 100
No. 50	10 to 35	20 to 40
No. 100	2 to 15	10 to 25
No. 200	0	0 to 10

2.05 MODIFIED SUBBASE

- A. Section 4123 of Standard Specifications.

155081.03 CONSTRUCTION.

3.01 PREPARATION OF MODIFIED SUBBASE

- A. Article 2115.03 of the Standard Specifications.

3.02 PLACING SAND SETTING BED

- A.** Place geotextile fabric and spread bedding sand evenly over the fabric and screed to a 5/8 inch thickness. Spread bedding sand evenly over the fabric and screed rails, using the rails and/or edge restraints to produce a 5/8 inch thickness, allowing for specified variation in the base surface.
 - 1. Do not disturb screeded sand.
 - 2. Screeded area shall not substantially exceed that which is covered by pavers in one day.
 - 3. Do not use bedding sand to fill depressions in base surface.

3.03 INSTALLATION OF PAVERS

- A.** Contractor shall be responsible for removal, cleaning and stockpiling of existing pavers for re-use on the project.
- B.** Contractor shall coordinate directly with Contracting Authority on appropriate location to stockpile salvaged pavers to minimize damage and exposure prior to re-installation.
- C.** Carefully place the pavers in straight courses with a uniform top surface. Given the pavers historical nature and that they are being salvaged and re-used, they will likely not have the same uniformity as new material. It furthermore appears that they do not have spacing lugs on the side surfaces to assist in laying straight joint lines. As such, string or chalk lines must be used to keep paver joint lines straight and true. Joint lines shall not deviate more than +/- 1/2 inch over 50 feet. Care should be taken to ensure that pavers do not make direct contact with or lip under adjacent pavers.
- D.** Surface flatness shall not exceed +/- 3/8 inch over 10 feet. Lippage shall not exceed 1/8 inch between adjacent pavers.
- E.** Good alignment must be kept, and the pattern shall be that shown on the plans.
- F.** No partial paver shall be installed that has an area less than one-half the original full-size paver.

3.04 JOINT TREATMENT

- A.** Joints shall be from 1/16 inch to a maximum of 3/16 inches between pavers.
- B.** Sweep the dry joint filler sand into paver joints.

3.05 CLEAN-UP

- A.** Sweep excess sand from paved surfaces and remove from site.
- B.** Remove all excess materials and debris from site.

155081.04 METHOD OF MEASUREMENT.

- A.** Method of Measurement: The Engineer will measure the square feet surface area of the installed pavers.

155081.05 BASIS OF PAYMENT.

- A.** Basis of Payment: Payment for pavers includes all labor, materials, equipment, and supervision required to remove and install pavers, complete.
- B.** Unit Price for pavers will include existing paver removal, cleaning of paver surfaces, stockpiling, material cutting and installation of pavers, geotextile fabric, sand setting bed, and joint filler.
- C.** Modified Subbase is paid for separately.