Specifications for the Century System (Clay Interlocking Pavers)

1. Scope

This specification covers basis of purchase, production properties, and installation of high strength clay paving stones. The contractor must have previous experience based on similar size and circumstance for a minimum of five years.

2. Basis of purchase

2.1 The specifier shall specify the color and shape of clay pavers desired.
2.2 Specifier shall determine use of pavers as to whether they will be used in pedestrian or vehicular areas, then specify thickness required. * Clay paving stones are commonly manufactured in two (2) thicknesses, 2 ¼" pedestrian and 2 ¾" vehicular.
*Recommended pattern for vehicular traffic is Herringbone.
2.3 Clay pavers shall have a minimum compressive strength of 12,500 psi.
2.4 Clay Pavers shall have an absorption rate of less than 6%.

3. Product

3.1 All clay pavers shall be in accordance with specifications listed herein and as shown on plans. This product shall be supplied by LPS Pavement Company, 67 Stonehill Road Oswego, Illinois, Phone: 630/551-2100; outside of Illinois: 800/232-1770.
3.2 All clay pavers shall conform to ASTM C902 – Pedestrian/Light Traffic or ASTM C1272 – Heavy Vehicular Traffic.
3.3 Proven field performance-all pavers submitted for approval must have been used on a job of similar environment, temperature range, and traffic volume, as is contemplated for this project. It is necessary to submit documentation and minimum time requirements.
3.4 Visual inspection-all units shall be sound and free of defects. Surface of pavers will be a fine, pleasing texture and will be the same as samples submitted. Minor cracks incidental to the usual methods of manufacture, or minor chipping resulting from customary methods of handling in shipment, delivery and installation, shall not be deemed grounds for rejection.

4. Installation

4.1 Vehicular areas installed with clay pavers shall have SandLOCK joint sand stabilizer mixed in the sand before it is swept in. The SandLOCK and sand must then be wet down to properly activate the SandLOCK.
4.2 The contractor must have experience in installation of clay pavers for a minimum of five years. Experience requirements will be based on the length of time the contractor has been doing this work and size of the jobs the contractor has completed. Documentation will be required.
4.3 Sub grade to be compacted by others to 96% density, with particular attention being paid to trenches and filled foundations areas or other excavated areas. These areas will be filled with a compactable material and will be placed in six (6) inch lifts and compacted to 96% density.
4.4 If area is to be used for vehicular traffic, a soil separator fabric will be used (i.e., Typar by DuPont or X-Series Woven Geotextile by Mirafi or equal) on top of compacted subgrade, before base is placed.
4.5 Base requirements shall be determined by specifier, taking into consideration the type of traffic to be used on pavers. Base requirement will be from 4 to 15 inches of crushed road base, compacted to 96%

density. Base course shall be installed in maximum 6" lifts. Additional moisture shall be added during the compaction process, if necessary, to achieve specified density.

4.5A Base course aggregate shall consist of sound, durable particle, free from clay, silt or organic materials. Recycled concrete shall not be used as a substitute for natural stone materials. Material shall be 100% crushed with fines graded to the following limits:

Sieve Size	% Passing
1 ½"	100-100
1"	90-100
½"	60-90
No. 4	30-60
No. 16	10-40
No. 200	4-15

4.6 Sand setting bed shall consist of clean, washed concrete sand to conform with the following gradation:

Sieve Size	% Passing
3/8"	100
No. 4	90-96
No. 100	10-30

The sand setting bed shall be screeded loose to a thickness of 1 to 1.5 inches. After sand has been screeded, it will not be walked on, disturbed in any other way or pre-compacted.

4.7 Laying of clay pavers will be performed by experienced crew members. Pavers should be laid hand tight with care taken to maintain straight and true lines.

4.8 Cutting where necessary can be accomplished with a masonry saw. Block splitting is not acceptable.

4.9 After pavers are installed, all edge restraints are in place and the cutting has been completed, the pavers are then compacted into the loose sand with a plate-type compactor, one pass on all areas. Compaction of the pavers shall be accomplished by the use of a vibratory plate compactor capable of a minimum of 4,500 pounds of compaction force.

4.10 Sand is then swept into the joints and vibrated with a plate-type compactor until joints are full. Joints must be filled all the way to the bottom of the chamfer on the pavers. Excess sand will be swept off and removed from site.

4.11 Upon completion, the pavers should be approximately 3/16 of an inch above the adjacent surface. Pavers that are not at least flush should be removed and relayed to set pavers above adjacent surfaces.