PART 1 GENERAL

1.01 SECTION INCLUDES
A. Concrete Paver Units (Concrete Paver Edge Units)
B. Bedding and Joint Sand
C. Edge Restraint

1.02 RELATED SECTIONS
A. Section: Curbs and Drains
B. Section: Aggregate Base
C. Section: Cement Treated Base
D. Section: Asphalt Treated Base
E. Section: Pavements, Asphalt and Concrete
F. Section: Roofing Materials
G. Section: Bitumen and Neoprene Setting
H. Section: Geotextiles

1.03 REFERENCES
Note: Use the latest editions of all references.

A. American Society of Testing and Materials (ASTM):
   1. C 33, Specification for Concrete Aggregates
   2. C 136, Method for Sieve Analysis for Fine and Coarse Aggregate
   3. C 140, Sampling and Testing Concrete Masonry Units
   5. C 930, Specification for Solid Interlocking Concrete Paving Units
   6. C 979, Specification for Pigments for Integrally Colored Concrete
   7. D 698, Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 5.5-lb (2.49 kg) Rammer and 12 in. (305 mm) Drop
   8. D 1557, Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 10-lb (4.54 kg) Rammer and 18 in. (457 mm) Drop

1.04 QUALITY ASSURANCE
A. Installation by a contractor and crew with at least one year experience in placing concrete pavers on projects of similar nature or dollar cost.
B. Contractor shall conform to all local, state/provincial, federal licensing and bonding requirements.

1.05 SUBMITTALS
A. Shop or product drawings, and product data.
B. Full size samples of concrete paving units to indicate color and shape selections. Color will be selected by Architect/Engineer/Landscape Architect/Owner from manufacturer's available colors.
C. Indicating drawing layout, pattern, and relationship of paving joints to fixtures and project formed.

A. Install a (4 ft. x 4 ft.) paver area.
B. This area will be used to determine surcharge of the bedding sand layer, joint sizes, lines, laying pattern(s), color(s), and texture of the job.
C. Approved by the engineer/architect and shall be the standard from which the work will be judged.
D. Approved area shall be included in the work.

1.07 DELIVERY, STORAGE & HANDLING
A. Deliver concrete pavers to site in steel banded, plastic banded, or plastic wrapped crates on wooden pallets capable of transfer by fork lift.
B. Unload pavers at job site in such a manner that no damage occurs to the product.

1.08 ENVIRONMENTAL CONDITIONS
A. Do not install sand or pavers during heavy rain or snowfall.
B. Do not install sand and pavers over frozen base materials.
C. Do not install frozen sand.

PART 2 PRODUCTS

2.01 CONCRETE PAVERS
Paving Stone Supplier shall be:
   Nitterhouse Masonry Products, LLC
   850 Cleveland Avenue
   Chambersburg, PA 17201
   Phone: (717) 267-4500
   Fax: (717) 267-4527

2.02 TECHNICAL DATA
A. Product Name(s)/Shape(s), Color(s), Overall Dimensions, and Thickness of the Paver(s):
   Architectural Paving Stones. Color and size to be selected by Architect.
B. Furnish pavers meeting the following requirements:
   Compressive Strength: Average compressive strength of 55 MPa (8,500 psi) with no individual unit under 50 MPa (7,200 psi).
   Absorption: Average absorption of 5% when tested in accordance with ASTM C 140.
   Flexural Strength: The paver stones have an average flexural strength of 1,200 psi when tested in accordance with ASTM C 293.
   Weight: 24.5 lbs./sq. ft. based 2” standard thickness.
   Pigments: Use pigment conforming to ASTM C 979.

2.03 EDGE RESTRAINTS — Various Types
A. Concrete, Plastic, Wood, Metal. Any that will restrain the pavers from moving laterally.

PART 3 EXECUTION

3.01 EXAMINATION
Note: For installation on a compacted aggregate base and soil subgrade, the specifier should be aware that the top surface of the pavers may be 3 mm (1/8”) above the final elevations after installation. This difference in initial and final elevation is to compensate for possible minor settling.
A. Verify that subgrade preparation, compacted density and elevations conform to the specifications.
B. Verify that geotextiles, if applicable, have been placed according to the specifications.
C. Verify that aggregate base materials, thickness, compaction, surface tolerances, and elevations conform to the specifications.

Note: Local aggregate base materials typical to those used for flexible pavements are recommended, or those conforming to ASTM D 2940. Compaction to not less than 95% Proctor Density in accordance with ASTM D 698 is recommended for pedestrian areas. The aggregate base should be spread and compacted in uniform layers not exceeding 150 mm (6 in.) thickness. Recommended base surface tolerance should be plus or minus 10 mm (3/8”) over a 3 m (10ft.) straight edge.

3.02 ACCEPTANCE OF WORK
A. Verify location, type, installation and elevations of edge restraints around the perimeter area to be paved.
B. Install edge restraints per the drawings (and manufacturer’s recommendations) at the indicated elevations.
C. Verify that the base is dry, uniform, even, and ready to support sand, pavers, and imposed loads.
D. Beginning of bedding sand and paver installation means acceptance of base and edge restraints.