SECTION 32 14 13

PRECAST CONCRETE UNIT PAVING

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Unilock; precast concrete unit paving.  
This section is based on the Unilock products available for quick ship in Canada and the USA. Additional products or finish and color options may be available locally and added to the spec. Unilock has 18 manufacturing plants in 7 locations:  
Greater Toronto Area, Ontario  
Uxbridge, MA  
Brewster, NY  
Rittman, OH  
Brighton, MI  
Aurora, IL  
Elkhorn, WI  
  
191 The West Mall Suite 200;  
 Etobicoke, ON, Canada M9C 5K8;  
Toll Free Tel: 800-864-5625;   
Fax: 888-477-1707;  
Email: request info;   
Web: https://commercial.unilock.com  
  
[Click Here] for additional information.  
Unilock introduced paving stones to North America in 1972 and continues to lead the styles, trends and technologies in the hardscape industry.   
Our exclusive palette of textures, colors, styles and a wide array of customizable solutions will allow you to showcase your creativity. Combined with the most advanced manufacturing technologies in the industry, delivering exceptional strength, beauty and resilience, you are assured that your projects will look great for years to come.  
From traditional unit paving, to linear plank and large format pavers, for heavy duty, traditional and permeable applications, retaining walls to garden wall, there is a product for every situation and style.   
Our expertise is available as a resource to your team from design concept through to installation. Committed and collaborative reps will work closely with you to understand exactly what you need for success. Designers and architects trust Unilock to bring their vision to life

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Precast concrete unit paving including the following:
       1. Non-permeable concrete pavers.
       2. Permeable concrete pavers.
       3. Joint sand.
       4. Permeable joint opening aggregate.
       5. Setting bed sand.
       6. Permeable setting bed aggregate.
       7. Base aggregate.
       8. Permeable base aggregate.
       9. Subbase aggregate.
       10. Permeable subbase aggregate.
       11. Geotextile.
       12. Edge restraints.
       13. Accessories.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 31 20 00 - Earth Moving.
    2. Section 32 32 13 - Cast-in-Place Concrete Retaining Walls.
    3. Section 03 30 00 - Cast-in-Place Concrete.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM C29 - Bulk Density and Voids in Aggregate Materials.
       2. ASTM C33 - Standard Specification for Concrete Aggregates.
       3. ASTM C67 - Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile, Section 8, Freezing and Thawing.
       4. ASTM C136 - Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
       5. ASTM C140 - Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units.
       6. ASTM C144 - Standard Specifications for Aggregate for Masonry Mortar.
       7. ASTM D448 - Standard Classification for Sizes of Aggregate for Road and Bridge Construction.
       8. ASTM C936 - Standard Specification for Solid Concrete Interlocking Paving Units.
       9. ASTM C979 - Standard Specification for Pigments for Integrally Colored Concrete.
       10. ASTM C1645 - Standard Test Method for Freeze-thaw and De-icing Salt Durability of Solid Concrete Interlocking Paving Units.
       11. ASTM D698 - Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 5.5 lb (24.4 N) Rammer and 12 in. (305 mm) drop.
       12. ASTM D1557 - Test Methods for Moisture Density Relations of Soil and Soil Aggregate Mixtures Using a 10-lb (44.5 N) Rammer and 18 in. (457 mm) drop.
       13. ASTM D1883 - Test Method for California Bearing Ratio of Laboratory-Compacted Soils.
       14. ASTM D2940 - Graded Aggregate Material for Bases or Subbases for Highways or Airports.
       15. ASTM D4254 - Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density.
       16. ASTM D4354 - Standard Practice for Sampling of Geosynthetics for Testing.
       17. ASTM D4491 - Standard Test Method for Water Permeability of Geotextiles by Permittivity.
       18. ASTM D4533 - Standard Test Method for Index Trapezoidal Tearing Strength of Geotextiles.
       19. ASTM D4632 - Standard Test Method for Grab Breaking Load and Elongation of Geotextiles.
       20. ASTM D4751 - Standard Test Method for Determining Apparent Opening Size of a Geotextile.
       21. ASTM D4759 - Standard Practice for Determining the Specifications Conformance of Geosynthetics.
       22. ASTM D4833 - Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products.
       23. ASTM D5261 - Standard Test Method for Measuring Mass per Unit Area of Geotextiles.
    2. U.S. Green Building Council, Leadership in Energy and Environmental Design (LEED):
       1. LEED Building Design and Construction.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data:
        1. Manufacturer's data sheets on each product to be used.
        2. Preparation instructions and recommendations.
        3. Storage and handling requirements and recommendations.
        4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
    3. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.

\*\* NOTE TO SPECIFIER \*\* Delete or modify Paragraph below based on LEED requirements for Project.

* + 1. Sustainable Design Submittals:
       1. LEED Materials and Resources Credit 4, Recycled Materials: Submit letter from manufacturer certifying the products having recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer recycled content.
          1. Include statement indicating costs for each product having recycled content.
       2. LEED Materials and Resources Credit 5, Regional Materials: Submit letter from manufacturer certifying products having been extracted, harvested, or recovered, as well as manufactured within 500 miles (804.7 km) of the project site.
          1. Include statement indicating the percentage by weight which is extracted, harvested, or recovered within 500 miles (804.7 km) of the project site.
       3. LEED Sustainable Sites Credit 7.1, Non-roof: Submit letter from manufacturer certifying the solar reflectance index (SRI) of the paver is 29 or greater.
       4. Typical installation methods.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum ten years documented experience.
     2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
     3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project. Delete if not required.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
       1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
       2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
       3. Retain mock-up during construction as a standard for comparison with completed work.
       4. Do not alter or remove mock-up until work is completed or removal is authorized.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
     2. Protect from damage due to weather, excessive temperature, and construction operations.
  2. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. EXTRA MATERIALS
     1. Provide 100 square feet of each product and size used to owner for maintenance and repair. Furnish Pavers from the same production run as installed materials.

1. PRODUCTS

\*\* NOTE TO SPECIFIER \*\* Delete locations not required

* 1. MANUFACTURER
     1. Acceptable Manufacturer: UNILOCK®, which is located at:  
        191 The West Mall, Suite 200  
        Etobicoke, ON, Canada M9C 5K8  
        Toll Free Tel: 800-864-5625  
        Fax: 888-477-1707  
        Email: [request info (Emily.Moed@unilock.com)](https://arcat.com/rfi?action=email&company=UNILOCK%25C2%25AE&message=RE%253A%2520Spec%2520Question%2520(02780uni)%253A%2520&coid=49478&spec=02780uni&rep=&fax=888-477-1707);Web: <https://commercial.unilock.com>
        1. Unilock Ltd, 287 Armstrong Avenue, Georgetown, ON L7G 4X6. 416-646-9000
        2. Unilock New England, 35 Commerce Dr., Uxbridge, MA 01569. 508-278-4536
        3. Unilock New York, 51 International Blvd., Brewster NY 10509. 845-278-6700
        4. Unilock Inc., 510 Smith Street, Buffalo, NY 14210. 716-826074
        5. Unilock Ohio, 12560 Sheets Rd, Rittman, OH 44270. 330-927-4000
        6. Unilock Michigan, 12591Emerson Dr., Brighton, MI 48116 248-437-7037
        7. Unilock Chicago, 301 E Sullivan Rd, Aurora, IL 60505. 630-892-9191
        8. Unilock W4814 County Rd A, Elkhorn, WI 53121. 262-742-3890.

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. PERFORMANCE REQUIREMENTS
     1. Standards Compliance:
        1. Provide pavers meeting the minimum material and physical properties set forth in ASTM C936. Efflorescence is not a cause for rejection.
        2. Pigments conforming to ASTM C979.
     2. Compressive Strength: 8,000 psi (55 MPa) average, with no individual unit under 7,200 psi (50 MPa).
     3. Absorption (ASTM C140): 5 percent average with no unit greater than 7 percent.
     4. Resistance to Freeze-Thaw (ASTM C1645): No breakage greater than 1.0 percent loss in dry weight of individual unit after 50 cycles.
     5. Maximum allowable breakage of product is 5 percent.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. NON-PERMEABLE PAVERS

\*\* NOTE TO SPECIFIER \*\* With compressive strength ratings up to 4 times the strength of concrete, and a virtually impenetrable stain resistant barrier, Courtstone is the ideal choice for vehicular paving and accents. Have the elegant look of old European cobblestones with the durability and performance of advanced modern technology. Delete if not required.

* + 1. Basis of Design: Courtstone; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Basalt.
      2. Color: Belgian Blue.
      3. Color: Dawn Mist.
      4. Color: Pebble Taupe.
      5. Color: Blend of Dawn Mist and Pebble Taupe.
      6. Color: Blend of Belgian Blue and Basalt.
      7. Color: To be selected by Architect.
      8. Color: \_\_\_\_\_.
      9. Finish: Reala Cobblestone, timeworn finish.
      10. Thickness: 2.375 inches (60 mm).

\*\* NOTE TO SPECIFIER \*\* Note sizes are sold as a bundle for random appearance.

* + - 1. Sizes:
         1. Random Bundle: (the following sizes sold together in one bundle)

XL Rectangle: 8.5 x 5.125 inches (215 x 130 mm).

Large Rectangle: 7.25 x 5.125 inches (185 x 130 mm).

Rectangle: 6.5 x 5.125 inches (165 x 130 mm).

Small Rectangle: 5.75 x 5.125 inches (145 x 130 mm).

Square: 5.125 x 5.125 inches (130 x 130 mm).

\*\* NOTE TO SPECIFIER \*\* The modern yet elegant look of Copthorne will add a touch of class to any landscaping project. With an average compressive strength rating of up to 4 times the strength of conventional poured concrete, Copthorne is a virtually indestructible paver that will not split, crack or fade. Delete if not required.

* + 1. Basis of Design: Copthorne; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Basalt.
      2. Color: Burgundy Red.
      3. Color: Burnt Clay.
      4. Color: Old Oak.
      5. Color: Steel Blue (Grey).
      6. Color: To be selected by Architect.
      7. Color: \_\_\_\_\_.
      8. Finish: Reala Cobblestone, timeworn finish.
      9. Size: 7.875 x 2.5 x 2.375 inches (200 x 65 x 60 mm).

\*\* NOTE TO SPECIFIER \*\* The modern yet elegant look of Richcliff will add a touch of class to any landscaping project. With an average compressive strength rating of up to 4 times the strength of conventional poured concrete, Richcliff is a virtually indestructible paver that will not split, crack or fade. Delete if not required.

* + 1. Basis of Design: Richcliff; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Smoke Shale.
      2. Color: Dawn Mist.
      3. Color: Pebble Taupe.
      4. Color: To be selected by Architect.
      5. Color: \_\_\_\_\_.
      6. Finish: Reala Flagstone.
      7. Thickness: 2.375 inches (60 mm).

\*\* NOTE TO SPECIFIER \*\* Note some sizes are sold as a bundle for random appearance .

* + - 1. Sizes:
         1. Large Rectangle: 20.75 x 11.875 inches (528 x 302 mm).
         2. Random Bundle: (the following sizes sold together in one bundle)
         3. Rectangle: 11.75 x 8.875 inches (300 x 226 mm).
         4. Small Rectangle: 8.875 x 5.875 inches (226 x 150 mm).
         5. Square: 8.875 x 8.875 inches (226 x 226 mm).

\*\* NOTE TO SPECIFIER \*\* Town Hall has been designed to satisfy both traditional and permeable installation methods while maintaining a historical worn and distressed appearance. Delete if not required.

* + 1. Basis of Design: Town Hall; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Burgundy Red.
      2. Color: Burnt Clay.
      3. Color: Old Oak.
      4. Color: Basalt.
      5. Color: Heritage Red.
      6. Color: Heritage Clay.
      7. Color: To be selected by Architect.
      8. Color: \_\_\_\_\_.
      9. Finish: Reala Cobblestone, timeworn finish.
      10. Size: 9.875 x 3.875 x 2.75 inches (250 x 100 x 70 mm).

\*\* NOTE TO SPECIFIER \*\* Unilock's Umbriano is the ideal product for virtually any landscaping project. With its non-slip surface and stain resistant properties, it is ideal for walkways, patios or pool decks. Umbriano may be used in driveways or in high traffic areas if the correct sizes and laying patterns are installed. (see Important Information tab below) Umbriano is engineered specifically to out-perform the majority of paving stones available today. With its extremely dense molecular composition, it is unaffected by chlorine or salt pool water, and is resistant to de-icing salt erosion. The clean zero bevel edge of Umbriano are favored among architects and designers to add a contemporary or modern touch to any project. Delete if not required.

* + 1. Basis of Design: Umbriano; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required. Additional colors may be available regionally. Contact the local representative for more details.

* + - 1. Color: Midnight Sky.
      2. Color: Winter Marvel.
      3. Color: Summer Wheat.
      4. Color: French Grey.
      5. Color: To be selected by Architect.
      6. Color: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Edge Detail: Smooth - Zero Bevel.
      2. Finish: Umbriano.

\*\* NOTE TO SPECIFIER \*\* Note large rectangle, square, and small rectangle are sold as a bundle for random appearance . Delete sizes not required.

* + - 1. Sizes:
         1. Square: 23.625 x 23.625 x 2.75 inches (600 x 600 x 70 mm).
         2. Rectangular: 11.75 x 23.625 x 2.75 inches (300 x 600 x 70 mm).
         3. Square: 15.75 x 15.75 x 2.75 inches (400 x 400 x 70 mm).
         4. Rectangular: 15.75 x 7.875 x 2.75 inches (400 x 200 x 70 mm).
         5. Square: 7.875 x 7.875 x 2.75 inches (200 x 200 x 70 mm).
         6. Rectangular: 7.875 x 15.75 x 2.75 inches (200 x 400 x 70 mm).
         7. Beacon Hill Platform Random Bundle: (the following units are sold together)

Large Rectangle: 20.625 x 13.75 x 2.375 inches (525 x 350 x 60 mm).

Small Rectangle: 6.875 x 13.75 x 2.375 inches (175 x 350 x 60 mm).

Square: 13.75 x 13.75 x 2.375 inches (350 x 350 x 60 cm).

* + - * 1. Beacon Hill Platform Random Bundle: (the following units are sold together)

Large Rectangle: 20.625 x 13.75 x 3.125 inches (525 x 350 x 80 cm).

Small Rectangle: 6.875 x 13.75 x 3.125 inches (175 x 350 x 80 cm).

Square: 13.75 x 13.75 x 3.125 inches (350 x 350 x 80 cm).

\*\* NOTE TO SPECIFIER \*\* Series is a specialized manufacturing process creating a striking visual effect with the surface of granite particles and results in an extremely durable paver. The aggregate surface is manufactured into the stone surface simultaneously with the body of the stone in a single process and not in layers. The resulting surface becomes an integral part of the paver itself, giving you long-term wear and structural performance. Ideal for offices, commercial retail plazas and institutions. Ask about the custom opportunities with this product. Delete if not required.

* + 1. Basis of Design: Series; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required. Additional colors may be available regionally. Contact the local representative for more details.

* + - 1. Color: Black Granite.
      2. Color: To be selected by Architect.
      3. Color: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: Series.
      2. Finish: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Additional sizes may be available regionally. Contact the local representative for more details.

* + - 1. Sizes:
         1. Rectangular: 7.875 x 3.875 x 2.75 inches (200 x 100 x 70 mm).
         2. \_\_\_\_\_\_

\*\* NOTE TO SPECIFIER \*\* Il Campo is produced by a specialized manufacturing process featuring brushed irregular lines etched across each paver. It's a detailed look that's striking and inviting at the same time, and unlike any other paver you can buy. Available in a variety of dimensionally compatible units, this paving stone system gives you the ability to create an almost unlimited variety of geometric and random pattern designs. Delete if not required.

* + 1. Basis of Design: Il Campo; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required. Additional colors may be available regionally. Contact the local representative for more details.

* + - 1. Color: Dark Charcoal
      2. Color: To be selected by Architect.
      3. Color: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: Il Campo.
      2. Finish: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete sizes not required. \*\* Additional sizes may be available regionally. Contact the local representative for more details.

* + - 1. Sizes:
         1. Rectangular: 7.875 x 3.875 x 2.75 inches (200 x 100 x 70 mm).
         2. \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Hollandstone, the classic 4 x 8" paver, is a favorite for many because of the design flexibility it provides. Talk to your Unilock Representative about the possibilities of adding unique finishes and colors to this size. Delete if not required.

* + 1. Basis of Design: Hollandstone; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required. Additional colors may be available regionally. Contact the local representative for more details.

* + - 1. Color: Granite.
      2. Color: Terra Cotta.
      3. Color: Rustic Red.
      4. Color: Sierra.
      5. Color: To be selected by Architect.
      6. Color: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: Standard.
      2. Finish: \_\_\_\_\_.
      3. Sizes: 7.875 x 3.875 x 2.375 inches (200 x 100 x 60 mm).

\*\* NOTE TO SPECIFIER \*\* Beacon Hill Flagstone has a very natural appearance and with soft blended colors and subtle surface design. Delete if not required.

* + 1. Basis of Design: Beacon Hill Flagstone; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required. . Additional colors may be available regionally. Contact the local representative for more details.

* + - 1. Color: Tuscany.
      2. Color: To be selected by Architect.
      3. Color: \_\_\_\_\_.
      4. Finish: Flagstone Premier.

\*\* NOTE TO SPECIFIER \*\* Delete sizes not required. \*\* Additional sizes may be available regionally. Contact the local representative for more details.

* + - 1. Sizes:
         1. XL Unit: 20.875 x 28.3 x 2.375 inches (530 x 720 x 60 mm). (CDA only)
         2. XL Unit: 20.875 x 34.625 x 2.375 inches (530 x 880 x 60 mm). (USA only)
         3. Beacon Hill Platform Random Bundle: (the following units are sold together)
         4. Large Rectangle: 21.25 x 14.125 x 2.375 inches (540 x 360 x 60 mm).
         5. Small Rectangle: 7.125 x 14.125 x 2.375 inches (180 x 360 x 60 mm).
         6. Square: 14.125 x 14.125 x 2.375 inches (360 x 360 x 60 mm).
         7. \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Beacon Hill platform is available in a smooth premier finish for a more contemporary paving design. Delete if not required.

* + 1. Basis of Design: Beacon Hill Smooth; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Opal
      2. Color: To be selected by Architect.
      3. Color: \_\_\_\_\_.
      4. Finish: Smooth Premier.

\*\* NOTE TO SPECIFIER Delete sizes not required. \*\* Additional sizes may be available regionally. Contact the local representative for more details.

* + - 1. Sizes:
         1. Beacon Hill Platform Random Bundle (the following units are sold together)

Large Rectangle: 21.25 x 14.125 x 2.375 inches (540 x 360 x 60 mm).

Small Rectangle: 7.125 x 14.125 x 2.375 inches (180 x 360 x 60 mm).

Square: 14.125 x 14.125 x 2.375 inches (360 x 360 x 60 mm),

\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Unilock Tribeca pavers are exemplary of the beautiful imported granite cobble stones used in North America's streets for centuries. A natural cobble appearance, dimensional accuracy, along with an EnduraColor finish, makes Tribeca Cobble and excellent choice. Delete if not required.

* + 1. Basis of Design: Tribeca Cobble; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Crystalline Basalt.
      2. Color: Peppered Granite.
      3. Color: To be selected by Architect.
      4. Color: \_\_\_\_\_.
      5. Finish: Series.

\*\* NOTE TO SPECIFIER \*\* Note large rectangle, rectangle, and small rectangle are sold as a bundle for random appearance . Delete sizes not required.

* + - 1. Sizes:
         1. Tribeca Cobble Platform Random Bundle: (the following units are sold together)

Large Rectangle: 12 x 5.125 x 2.75 inches (305 x 130 x 70 mm).

Rectangle: 14.125 x 5.125 x 2.75 inches (230 x 130 x 70 mm).

Small Rectangle: 6.875 x 5.125 x 2.75 inches (175 x 130 x 70 mm).

\*\* NOTE TO SPECIFIER \*\* Use paragraph below for additional products. Delete if not required.

* + 1. Basis of Design: \_\_\_\_\_; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Fill in information appropriate to product.

* + - 1. Color: To be selected by Architect.
      2. Color: \_\_\_\_\_.
      3. Finish: \_\_\_\_\_.
      4. Sizes:
         1. \_\_\_\_\_.
         2. \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. PERMEABLE PAVERS

\*\* NOTE TO SPECIFIER \*\* Eco-Optiloc, the patented 'L' shaped design allows you to achieve a superior lock-up that can withstand even the heaviest of loads residentially and commercially. The innovative design creates small voids between the pavers providing drainage into the sub-base. Delete if not required. Licensed by Unigroup-USA for regional manufacturing.

* + 1. Basis of Design: Eco-Optiloc; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required. . Additional colors may be available regionally. Contact the local representative for more details.

* + - 1. Color: Natural.
      2. Color: \_\_\_\_\_
      3. Color: To be selected by Architect.
      4. Color: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required.

* + - 1. Finish: Standard.
      2. Finish: Series.
      3. Finish: Il Campo.
      4. Finish: Smooth Premier.
      5. Edge: Chamfer, 1/8 inch (3 mm) bevel.
      6. Size and Shape: L-shape, 10.25 x 10.25 x 3.125 inches (260 x 260 x 80 mm).

\*\* NOTE TO SPECIFIER \*\* Available in multiple shapes, this permeable paver is also produced using face-mix technology that will increase the durability of the product and provide better color retention. Custom colors and finishes are available to offer unlimited design possibilities. Combined with a surface infiltration rate of up to 140 inches per hour, Eco-Priora offers both aesthetics and performance. Delete if not required. Licensed by Unigroup-USA for regional manufacturing.

* + 1. Basis of Design: Eco-Priora; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required. . Additional colors may be available regionally. Contact the local representative for more details.

* + - 1. Color: To be selected by Architect.
      2. Color: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required.

* + - 1. Finish: Standard.
      2. Finish: Smooth Premier.
      3. Finish: Il Campo.
      4. Finish: Series.
      5. Finish: Umbriano.
      6. Edge: Chamfer, 1/8 inch (3 mm) bevel.
      7. Sizes:

\*\* NOTE TO SPECIFIER \*\* Delete sizes not required.

* + - * 1. Square: 100 X 100: 9.5 x 9.5 x 3.125 inches (240 x 240 x 80 mm).
        2. Rectangular: 5 X 10: 9.5 x 4.75 x 3.125 inches (240 x 120 x 80 mm).
        3. Square: 5 X 5: 4.75 x 4.75 x 3.125 inches (120 x 120 x 80 mm).

\*\* NOTE TO SPECIFIER \*\* Ecoloc combines the permeability properties of Uni Eco-Stone and the interlocking attributes of Anchorlock. Ecoloc's surface pattern gives the appearance of a rectilinear design which can be incorporated into many different contemporary and classic design situations. Delete if not required. Licensed by Unigroup-USA for regional manufacturing.

* + 1. Basis of Design: Ecoloc as manufactured by Unilock.
       1. Color: \_\_\_\_\_\_\_.
       2. Finish: Standard.
       3. Finish: Smooth Premier.
       4. Finish: Il Campo.
       5. Finish: Series.
       6. Finish: Umbriano.
       7. Edge: Chamfer, 1/8 inch (3 mm) bevel.
       8. Size: 9 x 9 x 3.125 inches (229 x 229 x 80 mm).

\*\* NOTE TO SPECIFIER \*\* Permeable, heavy duty unit pavers have been so ' on-trend'. Eco-Line can be mechanically installed at a rate of 6,000-7,000 sq.ft. per machine, per day, with minimal labor. As a very competitive permeable pavement that can be installed even in adverse weather conditions, Eco-Line is not only beautiful, but cost effective. Delete if not required.

* + 1. Basis of Design: Eco-Line; as manufactured by Unilock.
       1. Color: \_\_\_\_\_\_\_\_\_\_

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required.

* + - 1. Finish: Standard.
      2. Finish: Smooth Premier.
      3. Finish: Il Campo.
      4. Finish: Series.
      5. Finish: Umbriano.
      6. Edge: Chamfer, 1/8 inch (3 mm) bevel.
      7. Sizes:
         1. Eco-Line Platform Random Bundle (the following units are sold together)

\*\* NOTE TO SPECIFIER \*\* Sizes are sold as a bundle for random appearance.

Unit A: 14 x 3.25 x 3.875 inches (357 x 84 x 100 mm).

Unit B: 12.5 x 3.25 x 3.875 inches (317 x 84 x 100 mm).

Unit C: 10.875 x 3.25 x 3.875 inches (277 x 84 x 100 mm).

Unit D: 9.375 x 3.25 x 3.875 inches (237 x 84 x 100 mm).

Unit E: 14 x 4.5 x 3.875 inches (357 x 114 x 100 mm).

Unit F: 12.5 x 4.5 x 3.875 inches (317 x 114 x 100 mm).

Unit G: 10.875 x 4.5 x 3.875 inches (277 x 114 x 100 mm).

Unit H: 9.375 x 4.5 x 3.875 inches (237 x 114 x 100 mm)

\*\* NOTE TO SPECIFIER \*\* Eco-Promenade plank paver brings the long linear look and feel to any contemporary permeable application while being capable of vehicular loads. Available by custom order only you may select your color and your finish to work in perfect harmony with your design. Delete if not required.

* + 1. Basis of Design: Eco-Promenade; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required. . Additional colors may be available regionally. Contact the local representative for more details.

* + - 1. Color: \_\_\_\_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required.

* + - 1. Finish: Standard.
      2. Finish: Smooth Premier.
      3. Finish: Il Campo.
      4. Finish: Series.
      5. Finish: Umbriano.
      6. Edge: Chamfer, 1/8 inch (3 mm) bevel.
      7. Size: 11.75 x 3 x 3.875 inches (300 x 75 x 100 mm).

\*\* NOTE TO SPECIFIER \*\* With Unilock's ever increasing focus on permeable pavers, Town Hall has been designed to satisfy both traditional and permeable installation methods while maintaining a historical worn and distressed appearance. Delete if not required.

* + 1. Basis of Design: Town Hall; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Burgundy Red.
      2. Color: Burnt Clay.
      3. Color: Old Oak.
      4. Color: Basalt.
      5. Color: Heritage Red.
      6. Color: Heritage Clay.
      7. Color: To be selected by Architect.
      8. Color: \_\_\_\_\_.
      9. Finish: Reala Cobblestone, timeworn finish.
      10. Edge: Chamfer, 1/8 inch (3 mm) bevel.
      11. Size: 9.875 x 3.875 x 2.75 inches (250 x 100 x 70 mm).

\*\* NOTE TO SPECIFIER \*\* Unilock's new Tribeca pavers are exemplary of the beautiful imported granite cobble stones used in North America's streets for centuries. A natural cobble appearance, dimensional accuracy, along with an EnduraColor Plus finish, makes Tribeca Cobble and excellent choice. Delete if not required.

* + 1. Basis of Design: Tribeca Cobble; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Crystalline Basalt.
      2. Color: Peppered Granite.
      3. Color: To be selected by Architect.
      4. Color: \_\_\_\_\_.
      5. Finish: Washed.
      6. Edge: Chamfer, 1/8 inch (3 mm) bevel.

\*\* NOTE TO SPECIFIER \*\* Note large rectangle, rectangle, and small rectangle are sold as a bundle for random appearance . Delete sizes not required.

* + - 1. Sizes:
         1. Tribeca Cobble Platform Random Bundle (the following units are sold together):

Large Rectangle: 12 x 5.125 x 2.75 inches (305 x 130 x 70 mm).

Rectangle: 14.125 x 5.125 x 2.75 inches (230 x 130 x 70 mm).

Small Rectangle: 6.875 x 5.125 x 2.75 inches (175 x 130 x 70 mm).

Curb: 11.375 x 9 x 3.875 inches (290 x 230 x 100 mm).

\*\* NOTE TO SPECIFIER \*\* Use paragraph below for additional products. Delete if not required.

* + 1. Basis of Design: \_\_\_\_\_; as manufactured by Unilock.

\*\* NOTE TO SPECIFIER \*\* Fill in information appropriate to product.

* + - 1. Color: To be selected by Architect.
      2. Color: \_\_\_\_\_.
      3. Finish: \_\_\_\_\_.
      4. Edge: \_\_\_\_\_\_.
      5. Sizes:
         1. \_\_\_\_\_.
         2. \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* For Non-permeable pavers only. Delete if not required.

* 1. JOINT SAND

\*\* NOTE TO SPECIFIER \*\* Select type of joint sand required. Delete joint sand not required.

* + 1. Natural Joint Sand.
       1. Washed, clean, non-plastic, free from deleterious or foreign matter, symmetrically shaped, natural or manufactured from crushed rock.
       2. Do not use limestone screenings, stone dust, or sand for the Joint Sand material that does not conform to conform to the grading requirements of ASTM C33.
       3. Utilize sands that are as hard as practically available where concrete pavers are subject to vehicular traffic.
       4. Gradation Requirements per ASTM C144. Percent Passing Sieve Size:
          1. No. 4 (4.75 mm): 100 percent.
          2. No. 8 (2.36 mm): 95 to 100 percent.
          3. No. 16 (1.18 mm): 70 to 100 percent.
          4. No. 30 (0.600 mm): 40 to 75 percent.
          5. No. 50 (0.300 mm): 10 to 30 percent.
          6. No. 100 (0.150 mm): 2 to 15 percent.
          7. No. 200 (0.075 mm): 0 to 1 percent.

\*\* NOTE TO SPECIFIER \*\* Do not use polymeric joint sand with Belpasso, Umbriano, Series, Il Campo, Unigranite, or Tribeca Cobble.

* + 1. Polymeric Joint Sand: Dry mix, contains polymeric binding agent, activated with water.
       1. Products:
          1. Techniseal RG+.
          2. Unicare HP Polymeric Max Sand.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Grey.
      2. Color: Tan.
      3. Color: To be selected by Architect.
      4. Color: \_\_\_\_\_.
      5. Compression Strength: Proven resistance to compression of 550 PSI after drying for 7 days under controlled conditions of 73 degrees F (23 degrees C) at 50 percent humidity.
         1. Test Sand Sample Shape: Cylinder; 2 inch (50 mm) dia. x 4 inch (100 mm) high.
      6. Gradation Requirements per ASTM C144. Percent Passing Sieve Size:
         1. No. 4 (4.75 mm): 100 percent.
         2. No. 8 (2.36 mm): 95 to 100 percent.
         3. No. 16 (1.18 mm): 70 to 100 percent.
         4. No. 30 (0.600 mm): 40 to 75 percent.
         5. No. 50 (0.300 mm): 20 to 40 percent.
         6. No. 100 (0.150 mm): 10 to 25 percent.
         7. No. 200 (0.075 mm): 0 to 10 percent.

\*\* NOTE TO SPECIFIER \*\* For Permeable pavers only. Delete if not required.

* 1. PERMEABLE JOINT OPENING AGGREGATE

\*\* NOTE TO SPECIFIER \*\* Select type of aggregate required. Second option is recommended for vehicular areas with heavy loads. Delete option not required.

* + 1. Permeable Joint Opening Aggregate: Conforming to ASTM C33.
       1. Provide washed, clean aggregates having zero plasticity, free from deleterious or foreign matter, crushed, angular rock and contain no No. 200 sieve size aggregate materials.
       2. Gradation Requirements per ASTM D448 No. 8. Percent Passing Sieve Size:
          1. 1/2 inch (12.5 mm): 100 percent.
          2. 3/8 inch (9.5 mm): 85 to 100 percent.
          3. No. 4 (4.75 mm): 10 to 30 percent.
          4. No. 8 (2.36 mm): 0 to 10 percent.
          5. No. 16 (1.18 mm): 0 to 5 percent.
    2. Permeable Joint Opening Aggregate: Granite chips conforming to ASTM C33.
       1. Provide washed, clean aggregates having zero plasticity, free from deleterious or foreign matter, crushed, angular rock and contain no No. 200 sieve size aggregate materials.
       2. Supplier:
          1. Kafka Granite LLC; 101 S. Weber Ave; Stratford, WI 54484; 800-852-7415.
          2. Alliance Aqua-Roc.
          3. SEK Perm Chip.
       3. Color: \_\_\_\_\_.
       4. Gradation Requirements: Percent Passing Sieve Size:
          1. 1/4 inch (6 mm): 97 to 100 percent.
          2. No. 4 (4.75 mm): 70 to 83 percent.
          3. No. 8 (2.36 mm): 37 to 50 percent.
          4. No. 16 (1.18 mm): 0 to 12 percent.

\*\* NOTE TO SPECIFIER \*\* For Non-permeable pavers only. Delete if not required.

* 1. SETTING BED SAND

\*\* NOTE TO SPECIFIER \*\* Select type of joint sand required. Delete joint sand not required.

* + 1. Setting Bed Sand.
       1. Washed, clean, non-plastic, free from deleterious or foreign matter, symmetrically shaped, natural or manufactured from crushed rock.
       2. Do not use limestone screenings, stone dust, or sand for the Joint Sand material that does not conform to conform to the grading requirements of ASTM C33.
       3. Do not use mason sand or sand conforming to ASTM C144.
       4. Utilize sands that are as hard as practically available where concrete pavers are subject to vehicular traffic.
       5. Gradation Requirements per ASTM C33. Percent Passing Sieve Size:
          1. 3/8 inch (9.5 mm): 100 percent.
          2. No. 4 (4.75 mm): 95 to 100 percent.
          3. No. 8 (2.36 mm): 85 to 100 percent.
          4. No. 16 (1.18 mm): 50 to 85 percent.
          5. No. 30 (0.600 mm): 25 to 60 percent.
          6. No. 50 (0.300 mm): 10 to 30 percent.
          7. No. 100 (0.150 mm): 2 to 10 percent.
          8. No. 200 (0.075 mm): 0 to 1 percent.

\*\* NOTE TO SPECIFIER \*\* For Permeable pavers only. Delete if not required.

* 1. PERMEABLE SETTING BED AGGREGATE
     1. Permeable Setting Bed Aggregate: Conforming to ASTM C33.
        1. Provide washed, clean aggregates having zero plasticity, free from deleterious or foreign matter, crushed, angular rock and contain no No. 200 sieve size aggregate materials.
        2. Gradation Requirements per ASTM D448 No. 8. Percent Passing Sieve Size:
           1. 1/2 inch (12.5 mm): 100 percent.
           2. 3/8 inch (9.5 mm): 85 to 100 percent.
           3. No. 4 (4.75 mm): 10 to 30 percent.
           4. No. 8 (2.36 mm): 0 to 10 percent.
           5. No. 16 (1.18 mm): 0 to 5 percent.

\*\* NOTE TO SPECIFIER \*\* For Non-permeable pavers only. Delete if not required.

* 1. BASE AGGREGATE

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + 1. As specified in Section 31 20 00 - Earth Moving.
    2. As specified in Section 03 30 00 - Cast-in-Place Concrete.
    3. Provide Base Aggregate conforming to ASTM D2940. Passing Sieve Size:
       1. 2 inch (50 mm): 100 percent.
       2. 1-1/2 inch (37.5 mm): 95 to 100 percent.
       3. 3/4 inch (19 mm): 70 to 92 percent.
       4. 3/8 inch (9.5 mm): 50 to 70 percent.
       5. No. 4 (4.75 mm): 35 to 55 percent.
       6. No. 30 (0.600 mm): 12 to 25 percent.

\*\* NOTE TO SPECIFIER \*\* In order to prevent damage by frost heave it may be necessary to limit percent passing No. 200 sieve to less than 8 percent. Modify as required.

* + - 1. No. 200 (0.075 mm): 0 to 8 percent.

\*\* NOTE TO SPECIFIER \*\* For Permeable pavers only. Delete if not required.

* 1. PERMEABLE BASE AGGREGATE
     1. Permeable Base Aggregate: Conforming to ASTM C33.
        1. Provide washed, clean aggregates having zero plasticity, free from deleterious or foreign matter, crushed, angular rock and contain no No. 200 sieve size aggregate materials.
        2. Gradation Requirements per ASTM D448 No. 57. Percent Passing Sieve Size:
           1. 1-1/2 inch (37.5 mm): 100 percent.
           2. 1 inch (25 mm): 95 to 100 percent.
           3. 1/2 inch (12.5 mm): 25 to 60 percent.
           4. No. 4 (4.75 mm): 0 to 10 percent.
           5. No. 8 (2.36 mm): 0 to 5 percent.

\*\* NOTE TO SPECIFIER \*\* For Non-permeable pavers only. Delete if not required.

* 1. SUBBASE AGGREGATE

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + 1. Provide subbase aggregate as specified by the Structural Engineer.
    2. As specified in Section \_\_\_\_\_.
    3. Gradation Requirements: Passing Sieve Size:
       1. \_\_\_\_\_.
       2. \_\_\_\_\_.
       3. \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* For Permeable pavers only. Delete if not required.

* 1. PERMEABLE SUBBASE AGGREGATE
     1. Permeable Base Aggregate: Conforming to ASTM C33.
        1. Provide washed, clean aggregates having zero plasticity, free from deleterious or foreign matter, crushed, angular rock and contain no No. 200 sieve size aggregate materials.
        2. Gradation Requirements per ASTM D448 No. 2. Percent Passing Sieve Size:
           1. 3 inch (75 mm): 100 percent.
           2. 2-1/2 inch (63 mm): 90 to 100 percent.
           3. 2 inch (50 mm): 35 to 70 percent.
           4. 1-1/2 inch (37.5 mm): 0 to 15 percent.
           5. 3/4 inch (19 mm): 0 to 5 percent.

\*\* NOTE TO SPECIFIER \*\* Geotextile is optional depending on soil conditions. Delete if not required.

* 1. GEOTEXTILE

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + 1. Performance Requirements:
       1. Grab Tensile Strength (ASTM D4632): 115 pounds (511.5 N).
       2. Grab Tensile Elongation (ASTM D4632): 50 percent.
       3. Trapezoidal Tear (ASTM D4533): 50 pounds (222.4 N).
       4. Puncture (ASTM D4833): 65 pounds.
       5. Apparent Opening Size (ASTM D4751): 0.008 inch (0.212 mm), 70 U.S. Sieve.
       6. Permittivity (ASTM D4491): 2.0 sec -1.
       7. Flow Rate (ASTM D4491): 140 gal per min per sf (1630 L per min per sq m)
    2. Geotextile Material: 4 ounce, non-woven, needle punched geotextile composed of 100 percent polypropylene staple fibers that are inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.
    3. Products:
       1. Carthage Mills FX-40HS.
       2. U.S. Fabrics US 115NW.
       3. Mirafi 140N.

\*\* NOTE TO SPECIFIER \*\* The provision of suitable edge restraints is critical to the satisfactory performance of interlocking concrete block pavement. Abut pavers tightly against the restraints to prevent rotation under load and any consequent spreading of joints. Install sufficiently stable edge restraints that are, in addition to providing suitable edge support for the paver units, able to withstand the impact of temperature changes, vehicular traffic and/or snow removal equipment.

* 1. EDGE RESTRAINTS

\*\* NOTE TO SPECIFIER \*\* Select option required. Delete options not required.

* + 1. Concrete Edge Restraint: As indicated on Drawings.
    2. Plastic Edge Restraints:
       1. Pave Tech Pave Edge Rigid.
       2. Pave Tech Pave Edge Flexible.
       3. Pave Tech Pave Edge Industrial.
       4. Snap Edge One Piece Edging: 96 inches (2438 mm).
    3. Metal Edge Restraints:
       1. Permaloc Aluminum, Model No. \_\_\_\_\_.
  1. ACCESSORIES

\*\* NOTE TO SPECIFIER \*\* Accessories are optional depending on project needs. Delete options not required.

* + 1. Cleaners: \_\_\_\_\_.
    2. Sealers: \_\_\_\_\_.
    3. Joint Sand Stabilizers: \_\_\_\_\_.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly constructed and prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
      2. Prevent damage to underdrain pipes, overflow pipes, observation wells, or inlets and other drainage appurtenances during installation.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions, approved submittals and in proper relationship with adjacent construction.
         1. Provide edge restraints as indicated.
         2. Provide separation geotextile on bottom and sides of prepared subgrade. Secure in place to prevent wrinkles and folds. Overlap edges minimum of 18 inches (450 mm) in direction of drainage.
         3. Provide base and subbase indicated. Compact and provide to tolerances as recommended by paver manufacturer.
         4. Provide and spread setting bed as recommended by paver manufacturer.
         5. Mix concrete pavers from a minimum of three bundles to produce uniform blend of colors and textures.
         6. Lay concrete pavers to pattern indicated.
         7. Provide spacing recommended by paver manufacturer.
         8. Cut pavers as recommended by manufacturer.
         9. Vibrate pavers to leveling course as recommended by manufacturer.
         10. Spread joint material and vibrate until joints are completely filled.

\*\* NOTE TO SPECIFIER \*\* Delete if sealer is not required.

* + - 1. Apply sealer in accordance with sealer and paver manufacturer recommendations after cleaning products.
  1. FIELD QUALITY CONTROL
     1. Verify final elevations for conformance to the Drawings.
        1. Prevent finished grade elevations from deviating more than 3/8 inch (10 mm) under a 10 foot (3 m) straightedge or indicated slope.

\*\* NOTE TO SPECIFIER \*\* The industry standard acceptable lippage between adjacent pavers is 1/8 inch (3 mm). A flush paver surface is most desirable but may be unattainable due to factors such as paver type, setting bed materials or depth, ASTM manufacturing standards, or other specific project needs. Consult your Unilock representative to determine the best approach for reasonable lippage tolerance on each project.

* 1. Lippage, Paver-to-Paver: No greater than 1/8 inch (3 mm) difference in height between adjacent pavers.CLEANING AND PROTECTION
     1. Prevent traffic on pavers until joint material is vibrated into joints.
     2. Clean products in accordance with the manufacturers recommendations.
     3. Touch-up, repair or replace damaged products before Substantial Completion.

\*\* NOTE TO SPECIFIER \*\* Article below is for permeable paver installations. Delete if not required.

* 1. MAINTENANCE
     1. Remove all debris from joint and provide additional Permeable Joint Aggregate material after 120 days and before 150 days after date of Substantial Completion.
     2. Fill Permeable Joint Aggregate material full to the lip of the paver.

\*\* NOTE TO SPECIFIER \*\* Delete Paragraph below if annual maintenance is not included in Contract.

* + 1. Annual Maintenance:
       1. Annually inspect Permeable Joint Aggregate material for areas clogged with debris.
       2. Vacuum or sweep as necessary to restore surface infiltration.
       3. Replenish removed Permeable Joint Aggregate material with clean aggregate material flush to paver lip.
       4. Sweep excess material from paver surface.

END OF SECTION