PART 1 GENERAL

1.01 SECTION INCLUDES
   A. Carpet tile, fully adhered.
   B. Premanufactured stair nosings.

1.02 RELATED REQUIREMENTS
   A. Section 01.61.16 - Volatile Organic Compound (VOC) Content Restrictions.
   B. Section 01.74.19 - Construction Waste Management and Disposal: Reclamation/Recycling of new carpet tile scrap, removed carpet tile, and ______.
   C. Section 03.30.00 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.
   D. Section 09.05.61 - Common Work Results for Flooring Preparation: Independent agency testing of concrete slabs, removal of existing floor coverings, cleaning, and preparation.

1.03 REFERENCE STANDARDS
   C. CRI (CIS) - Carpet Installation Standard; Carpet and Rug Institute; 2011.
   D. CRI (GLP) - Green Label Plus Testing Program - Certified Products; Carpet and Rug Institute; Current Edition.

1.04 SUBMITTALS
   A. See Section 01.30.00 - Administrative Requirements, for submittal procedures.
   B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.
   C. Shop Drawings: Indicate layout of joints.
   D. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.
   E. Manufacturer's Installation Instructions: Indicate special procedures.
   F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.
   G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
      1. Extra Carpet Tiles: Quantity equal to 5 percent of total installed of each color and pattern installed.

1.05 QUALITY ASSURANCE
   A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet tile with minimum three years documented experience.
   B. Installer Qualifications: Company specializing in installing carpet tile with minimum three years documented experience and approved by carpet tile manufacturer.
1.06 FIELD CONDITIONS
   A. Store materials in area of installation for minimum period of 24 hours prior to installation.

PART 2 PRODUCTS

2.01 MATERIALS
   A. Tile Carpeting: Tufted, manufactured in one color dye lot.
      1. Tile Size: 24 by 24 inch, nominal.
      2. Color: Refer to Finish Legend.
      3. Pattern: Refer to Finish Legend.
      4. Critical Radiant Flux: Minimum of 0.22 watts/sq cm, when tested in accordance with ASTM E648 or NFPA 253.
      5. Surface Flammability Ignition: Pass ASTM D2859 (the "pill test").
      6. VOC Content: Provide CRI (GLP) certified product; in lieu of labeling, independent test report showing compliance is acceptable.

2.02 ACCESSORIES
   A. Sub-Floor Filler: White premix latex; type recommended by flooring material manufacturer.
   B. Edge Strips: Embossed aluminum, color as selected by Architect.
   C. Stair Nosing: Stainless steel type, square nose, smooth top surface, one piece per stair tread width, 2B finish, color as selected by Architect. Provide product equal to those manufactured by Stairnosing, stairnosing.com
   D. Adhesives:
      1. Compatible with materials being adhered; maximum VOC content of 50 g/L; CRI (GLP) certified; in lieu of labeled product, independent test report showing compliance is acceptable.
   E. Carpet Tile Adhesive: Recommended by carpet tile manufacturer; releasable type.

PART 3 EXECUTION

3.01 EXAMINATION
   A. Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.
   B. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.
   C. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for flooring installation by testing for moisture and pH.
      1. Test in accordance with Section 09.05.61.
      2. Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.
   D. Steel Sub-Floor Surfaces: Verify that substrate is straight, true and free of burrs or other projections which would prevent a sound and straight installation.
   E. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION
   A. Prepare floor substrates for installation of flooring and nosings in accordance with Section 09.05.61.
   B. Prepare floor substrates as recommended by flooring, nosing and adhesive manufacturers.
3.03 INSTALLATION
   A. Starting installation constitutes acceptance of sub-floor conditions.
   B. Install carpet tile in accordance with manufacturer's instructions and CRI (CIS).
   C. Blend carpet from different cartons to ensure minimal variation in color match.
   D. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.
   E. Lay carpet tile in square pattern, with pile direction parallel to next unit, set parallel to building lines.
   F. Locate change of color or pattern between rooms under door centerline.
   G. Fully adhere carpet tile to substrate.
   H. Trim carpet tile neatly at walls and around interruptions.
   I. Complete installation of edge strips, concealing exposed edges.

3.04 INSTALLATION ON STAIRS
   A. Install stair nosings first, and allow adhesive to dry for no less than 24 hours, prior to beginning installation of carpet at same location. Fully adhere nosing to substrate.
   B. Use one piece of carpet for each tread and the riser below. Apply seam adhesive to all cut edges.
   C. Lay carpet with pile direction in the length of the stair.
   D. Adhere carpet tight to stair treads and risers.

3.05 CLEANING
   A. Remove excess adhesive without damage, from floor, base, and wall surfaces.
   B. Clean and vacuum carpet surfaces.

END OF SECTION