1. **GENERAL**
   1. **SECTION INCLUDES**
      1. Broadloom carpeting, glue-down.
      2. Accessories
   2. **REFERENCES**
      1. ASTM E648 and NFPA 253 - Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
      2. AQMD - Air Quality Management District, Local Regulations.
   3. **FIRE CLASSIFICATION REQUIREMENTS**
      1. ASTM E648, NFPA 253: Class I, Heat Flux Minimum 0.45 watts per sq cm., Smoke Developed: Less than 450.
   4. **SUBMITTALS**
      1. Submit shop drawings showing seaming plan, method of joining seams and direction of carpet based on field measurements.
      2. Submit product data on specified products, describing physical and performance characteristics, sizes, patterns, colors available and method of installation.
      3. Submit three samples 12 x 12 inch in size illustrating color and pattern for each carpet material specified.
      4. Submit manufacturer's installation instructions.
   5. **OPERATION AND MAINTENANCE DATA**
      1. Submit operation and maintenance.
      2. Include maintenance procedures, recommended maintenance materials and suggested schedule for cleaning and shampooing.
   6. **QUALITY ASSURANCE**
      1. Manufacturer: Company specializing in carpet with ten years minimum experience.
      2. Installer: Company with three years minimum experience, certified when required by the manufacturer.
      3. Regulatory Requirements: Carpet shall have level loop, textured loop, or level-cut/uncut pile texture and maximum pile height of 1/2 inch according to CBC Section 1124.3.
   7. **ENVIRONMENTAL REQUIREMENTS**
      1. Store materials in sufficient time prior to installation in area of installation to achieve temperature stability.
      2. Maintain minimum 70 degrees F ambient temperature three days prior to, during and 24 hours after installation of materials.
   8. **EXTRA MATERIALS**
      1. Provide an average of 3 percent in usable size of carpeting of each color specified, not less than 12 inches long by roll width.
   9. **GUARANTEE**
      1. Provide manufacturers 10 year, abrasive wear guarantee, 10 year limited performance guarantee with no edge ravel, zippering or delamination. Include secondary backing, adhesive and minimum 20lb. tuft bind. Life guarantee for moisture-resistant-backing carpet.
2. **PRODUCTS**
   1. **MANUFACTURERS**
      1. Products of the following manufacturers form the basis for design and quality intended.
         1. Bentley
      2. Substitutions: None per District Standards.
   2. **MATERIALS - CARPET**
      1. Style: Drumline, 6ft., Conforming to the following criteria:
         1. Construction: Patterned Loop.
         2. Fiber Content: 75% DuPont Solution Dyed CFN, 25% DuPont Antron Legacy CFN
         3. Color: 55021 KALEIDOSCOPE Per Section 09050.
         4. Gauge: 1/13 inch.
         5. Pile Height: 0.117 inch.
         6. Primary Tufting Substrate: Synthetic Non - Woven
         7. Fushion Coat: Sealant Vinyl
         8. Backing: Closed - Cell Vinyl Cushion
         9. Pile Units: 9.5/in.
         10. Pile Yarn Weight: 20 oz.
   3. **MANUFACTURERS - REDUCER STRIPS AND ACCESSORIES** 
      1. Products of the following manufacturers form the basis for design and quality intended.
         1. Duramax Inc./Johnsonite, Chagrin Falls, OH.
         2. The Roppe Co., Fostoria, OH.
         3. Mercer Products Co., Inc. Orlando, FL.
         4. The Flexco Co., Tuscumbia, AL.
         5. AFCO Rubber Corp., North Canton, OH.
      2. Or equal as approved in accordance with Section 01600 for Substitutions.
   4. **REDUCER STRIPS, ADAPTERS AND ACCESSORIES**
      1. 1/4 inch carpet to 1/8 inch resilient flooring adapter: CTA‑A.
      2. 3/16 inch carpet edge guard: EG-J.
      3. 1/4 inch carpet edge guard: EG-H.
      4. Carpet edge guards shall comply with CBC Section 1124B.2.
      5. Stair nosing: Rubber, Safety nosings with contrasting colors, Mercer 255R, 2 inches or equal.
      6. Colors: To be selected by Architect.
   5. **FILLER AND ADHESIVE** 
      1. Subfloor Filler: Cementous- based underlayment acceptable to the manufacturer.
      2. Primers and Adhesives: Type recommended by carpet manufacturer in full compliance with California VOC regulations.
      3. Seam Sealer: Type recommended by manufacturer.
3. **EXECUTION**
   1. **EXAMINATION**
      1. Verify that surfaces are smooth and flat with maximum variation of 1/8 inch in 10 ft, and are ready to receive Work.
      2. Prior to ordering flooring materials, contractor shall conduct calcium chloride “dome” test to verify that concrete floors are dry with maximum moisture vapor emissions of three lbs. per 1000 s.f. in 24 hours, and exhibit negative alkalinity, carbonation or dusting. Apply moisture test in four (4) different areas of each floor location with at least one test for each 1,000 s.f. of floor area.
      3. Alkalinity Testing: Concrete floors shall be tested for alkalinity prior to the installation of resilient flooring. Levels of pH shall not exceed the written recommendations of the resilient flooring manufacturer or the adhesive manufacturer, or both.
      4. Ordering of flooring materials and beginning of installation means acceptance of existing substrate and site conditions.
   2. **PREPARATION**
      1. Remove sub‑floor ridges and bumps. Fill low spots, cracks, joints, holes and other defects with subfloor filler.
      2. Apply, trowel and float filler to leave a smooth, flat, hard surface, free of bumps or depressions of any size.
      3. Prohibit traffic from area until filler is cured.
      4. Vacuum clean substrate.
      5. Apply primer as recommended by the materials manufacturer.
   3. **INSTALLATION - GLUE DOWN**
      1. Apply carpet and adhesive in accordance with manufacturers' instructions.
      2. Lay out rolls of carpet for approval.
      3. Verify carpet match before cutting to ensure minimal variation between dye lots.
      4. Double cut carpet to allow intended seam and pattern match. Make cuts straight, true and unfrayed. Seal edge seams where required to prevent fraying.
      5. Provide carpet with least number of seams possible for each room. Locate seams in area of least traffic. Install seams in corridors perpendicular to line of traffic.
      6. Fit seams straight, not crowded or peaked, free of gaps.
      7. Lay carpet on floors with run of pile in same direction as anticipated traffic.
      8. Do not change run of pile in any room where carpet is continuous through a wall opening into another room. Locate change of color or pattern between rooms under door centerline.
      9. Cut and fit carpet around interruptions. Extend carpets into cabinets which do not contain bottoms.
      10. Fit carpet tight to intersection with vertical surfaces without gaps.
      11. Install edge guards in lengths as long as possible. Firmly adhere to surfaces with adhesive recommended by the manufacturer.
      12. Install in accordance with CBC Section 1124B.3.
   4. **CLEANING**
      1. Remove excessive adhesive from floor, base and wall surfaces without damage.
      2. Clean and vacuum carpet surfaces.
   5. **PROTECTION**
      1. Prohibit traffic from carpet areas for 24 hours after installation.

**END OF SECTION**