1. Section 123600   
   Countertops
   1. PART 1  GENERAL
      1. SECTION INCLUDES
         1. Countertops for architectural cabinet work.
         2. Countertops for manufactured casework.
      2. REFERENCE STANDARDS
         1. ISFA 2-01 - Classification and Standards for Solid Surfacing Material; 2013.
         2. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.
         3. PS 1 - Structural Plywood; 2023.
      3. SUBMITTALS
         1. See Section 013000 - Administrative Requirements for submittal procedures.
         2. Product Data:  Manufacturer's data sheets on each product to be used, including:
            1. Preparation instructions and recommendations.
            2. Storage and handling requirements and recommendations.
            3. Specimen warranty.
         3. Shop Drawings:  Complete details of materials and installation ; combine with shop drawings of cabinets and casework specified in other sections.
         4. Verification Samples:  For each finish product specified, minimum size ​3 inches​ square, representing actual product, color, and patterns.
         5. Test Reports:  Chemical resistance testing, showing compliance with specified requirements.
   2. PART 2  PRODUCTS
      1. COUNTERTOPS
         1. Plastic Laminate Countertops:  High-pressure decorative laminate (HPDL) sheet bonded to substrate.
            1. Laminate Sheet, Type \_\_\_:  NEMA LD 3, Grade HGS, 0.048 inch nominal thickness.

Wear Resistance:  In addition to specified grade, comply with NEMA LD 3 High Wear Grade requirements for wear resistance.

Finish:  Matte or suede, gloss rating of 5 to 20.

Surface Color and Pattern:  As selected by Architect from the manufacturer's full line.

* + - * 1. Exposed Edge Treatment:  Square, substrate built up to minimum 1-1/4 inch thick; covered with matching laminate.
        2. Back and End Splashes:  Same material, same construction.
      1. Solid Surfacing Countertops:  Solid surfacing sheet or plastic resin casting over continuous substrate.
         1. Flat Sheet Thickness:  1/2 inch, minimum.
         2. Solid Surfacing Sheet and Plastic Resin Castings:  Complying with ISFA 2-01 and NEMA LD 3; acrylic or polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.

Finish on Exposed Surfaces:  Matte, gloss rating of 5 to 20.

Color and Pattern:  As indicated on drawings.

* + - * 1. Other Components Thickness:  1/2 inch, minimum.
        2. Back and End Splashes:  Same sheet material, square top; minimum 4 inches high.
        3. Skirts:  As indicated on drawings.
        4. Fabricate in accordance with manufacturer's standard requirements.
    1. MATERIALS
       1. Plywood for Supporting Substrate:  PS 1 Exterior Grade, A-C veneer grade, minimum 5-ply; minimum 3/4 inch thick; join lengths using metal splines.
       2. Adhesives:  Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.
    2. FABRICATION
       1. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
          1. Join lengths of tops using best method recommended by manufacturer.
          2. Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall.
          3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.
       2. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
          1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.
          2. Height:  4 inches, unless otherwise indicated.
  1. PART 3  EXECUTION
     1. INSTALLATION
        1. Securely attach countertops to cabinets using concealed fasteners.  Make flat surfaces level; shim where required.
        2. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch.
        3. Seal joint between back/end splashes and vertical surfaces.

1. END OF SECTION