1. Section 085313   
   Vinyl Windows
   1. PART 1  GENERAL
      1. REFERENCE STANDARDS
         1. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights; 2022, with Errata (2023).
      2. SUBMITTALS
         1. See Section 013000 - Administrative Requirements for submittal procedures.
         2. Product Data:  Provide component dimensions, anchors, fasteners, glass, internal drainage, and \_\_\_\_\_.
         3. Shop Drawings:  Indicate opening dimensions, framed opening tolerances, affected related work, installation requirements, and \_\_\_\_\_.
      3. QUALITY ASSURANCE
         1. Manufacturer Qualifications:  Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
      4. DELIVERY, STORAGE, AND HANDLING
         1. Protect finished surfaces with wrapping.  Do not use adhesive papers or sprayed coatings that bond when exposed to sunlight or weather.
         2. Jig, brace, and box the window frame assemblies for transport to minimize flexing of members or joints.
      5. FIELD CONDITIONS
         1. Do not install sealants when ambient temperature is less than 40 degrees F.
      6. WARRANTY
         1. See Section 017800 - Closeout Submittals for additional warranty requirements.
         2. Correct defective work within a 5-year period after Date of Substantial Completion.
         3. Manufacturer's Warranty:  Provide five-year manufacturer warranty for insulated glass units from seal failure, interpane dusting or misting, and replacement of same.  Include coverage for degradation of vinyl color finish.  Complete form in Owner's name and register with manufacturer.
   2. PART 2  PRODUCTS
      1. MANUFACTURERS
         1. Vinyl Windows:
            1. Alside, Inc; \_\_\_\_:  www.alside.com/#sle.
            2. Euroline Windows; 4700 Tilt and Turn:  www.euroline-windows.com/#sle.
            3. Innotech Windows and Doors; Defender 76TS System:  www.innotech-windows.com/#sle.
            4. Pella Corporation; Encompass by Pella Vinyl Windows:  www.pellacommercial.com/#sle.
      2. DESCRIPTION
         1. Vinyl Windows:  Factory-fabricated frame and sash members of extruded, hollow, ultra-violet-resistant, glass-fiber reinforced polyvinyl chloride (PVC) with integral color; with factory-installed glazing, hardware, related flashings, anchorage and attachment devices.
            1. Configuration:  As indicated on drawings.

Product Type:  ​FW - Fixed window, HS - Horizontal sliding window, and \_\_\_\_\_​ in accordance with AAMA/WDMA/CSA 101/I.S.2/A440.

* + - * 1. Interior Color:  ​As selected by Owner​.
        2. Exterior Color:  ​As selected by Owner​.
        3. Size to fit openings with minimum clearance around perimeter of assembly providing necessary space for perimeter seals.
        4. Framing Members:  Fusion welded corners and joints, with internal reinforcement where required for structural rigidity; concealed fasteners.
        5. System Internal Drainage:  Drain to exterior side by means of weep drainage network any water entering joints, condensation within glazing channel, or other migrating moisture within system.
        6. Glazing Stops, Trim, Flashings, and Accessory Pieces:  Formed of rigid PVC, fitting tightly into frame assembly.
        7. Mounting Flange:  Integral to frame assembly, providing weather stop at entire perimeter of frame.
        8. Insect Screens:  Tight fitting for operating sash location.
    1. PERFORMANCE REQUIREMENTS
       1. Design Pressure:  In accordance with applicable codes.
       2. Overall Thermal Transmittance (U-value) for fixed units: .38, maximum, including glazing, measured on window sizes required for this project.
       3. Overall Thermal Transmittance (U-value) for operable fenestration: .45z, maximum, including glazing, measured on window sizes required for this project.
    2. COMPONENTS
       1. Glazing: Insulated ​double​ pane, ​annealed glass,​ ​clear​, ​low-E coated​,​ manufacturer's standard fill,​ with glass thicknesses as recommended by manufacturer for specified wind conditions​ and acoustic rating indicated​.
          1. Glass Stops:  Snap-on PVC glazing bead with color to match sash and frame.
       2. Frame Depth: ​Manufacturer's standard​.
       3. Insect Screens:  Aluminum, extruded or roll-formed frame with mitered and reinforced corners; apply screen mesh taut to frame; secure to window with hardware to allow easy removal.
          1. Hardware:  Manufacturer's standard; quantity as required per screen.
          2. Screen Mesh:  Vinyl-coated fiberglass, window manufacturer's 18 x 16 mesh.
          3. Frame Finish:  Manufacturer's standard, color to match window frame and sash color.
    3. HARDWARE
       1. Horizontal Sliding Sash:  Rigid PVC interfacing tracks with dual brass wheel and stainless steel axle assembly housing, provide two sets for each operating sash and opening stops in head and sill track as required.
       2. Sash lock:  Lever handle and keeper with cam lock, provide at least one for each operating sash.
       3. Finish of Exposed Hardware:  Baked enamel, match interior sash and frame color.
  1. PART 3  EXECUTION
     1. INSTALLATION
        1. Install window unit assemblies in accordance with manufacturers instructions and applicable building codes.
        2. Attach window frame and shims to perimeter opening to accommodate construction tolerances and other irregularities as necessary.
        3. Align window plumb and level, free of warp or twist, and maintain dimensional tolerances and alignment with adjacent work.
     2. TOLERANCES
        1. Maximum Variation from Level or Plumb:  0.06 inches every 3 ft non-cumulative or 0.5 inches per 100 ft, whichever is less.
     3. ADJUSTING
        1. Adjust hardware for smooth operation and secure weathertight closure.
     4. CLEANING
        1. Remove protective material from pre-finished surfaces.
        2. Wash surfaces by method recommended and acceptable to window manufacturer; rinse and wipe surfaces clean.

1. END OF SECTION

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