SECTION 04813
GLASS BLOCK SKYLIGHT SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES
    A. Glass block skylight system, consisting of extruded
        aluminum grid and glass blocks, and with all other items
        necessary for a complete assembly, mounted on curb.

    B. Glass block skylight system, consisting of extruded
        aluminum grid and glass blocks, and with all other items
        necessary for a complete assembly, mounted on separate
        structure.

1.2 RELATED SECTIONS
    A. Section 07600 - Flashing and Sheet Metal.

1.3 REFERENCES
    A. ASTM B 221 - Standard Specification for Aluminum and
        Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and
        Tubes.

1.4 SUBMITTALS

    A. Submit under provisions of Section 01300.

    B. Product Data: For both grid system and glass block.
        Indicate materials, sizes, shapes, thicknesses, and
        finishes. Include installation and assembly
        instructions.
    C. Shop Drawings: Show methods of construction, location
        and spacing of anchors, and relationship to adjoining
        work.
    D. Selection Samples: Manufacturer's full range of finishes
        and colors, for selection.

1.5 DELIVERY, STORAGE, AND HANDLING

    A. Store materials in dry place, off the ground, where
        temperature will not exceed 90 degrees F (32 degrees F).

    B. Handle material in manner that will prevent damage to
        finished surfaces. Do not install scratched or damaged
        components.

1.6 WARRANTY

A. Provide manufacturer's standard warranty.

B. Provide one year installer's warranty against faulty
    workmanship and water leakage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Glass Block Support Grid: Provide "IBP Glass Block Grid
    System" manufactured by Innovative Building Products,
    Inc., 2917 W. 7th Street, Fort Worth, TX 76107. ASD.

B. Glass Block: Provide products manufactured by one of the
    following:
    1. Pittsburgh Corning Corp.
    2. Westerwald Glasstein (Solaris).
    3. Glashaus Inc. (Weck).

2.2 MATERIALS

A. Glass Block Support Grid: Factory assembled, extruded
    aluminum two-way T-bar grid, sized to fit glass block
    with one block to a module, and hollow perimeter frame
    with predrilled fastener holes.
    1. Aluminum: ASTM B 221, 6063-T6 or 6463-T6 alloy.
    2. Finish: As selected by Architect from manufacturer's
        standard finishes.

B. Glass Block: Partially evacuated hollow units, 7-3/4
    inches (196 mm) square by 3-1/8 inches (79 mm) thick.
    1. Pattern: _____.
    2. Color: Clear.
    3. Color: _____.

C. Foam Tape: Adhesive backed, closed cell foam, 1/16 inch
    (1.5 mm) or 3/32 inch (2.5 mm) thick.

D. Sealant: Dow Corning Corp. "TradeMate" glass block
    sealant.

E. Fasteners for Attaching Skylight Frame to Curb:
    Tamperproof, cadmium plated.

F. Accessories: Provide all sealants, flashings, anchors, fasteners, and other items necessary for complete weather- and waterproof installation.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify applicable field dimensions and adjust as necessary to accommodate frame.

B. Examine curb and supporting structure and correct any conditions that are not in accordance with manufacturer's installation instructions.

3.2 INSTALLATION

A. Install grid system and glass block according to manufacturer's instructions.

B. Apply continuous sealant bead on top of curb.

C. Place frame on curb and press down to seat properly and overlap flashings. Fasten frame in place securely.

D. Adhere foam tape to entire perimeter of each glass block and insert glass block into grid from exterior side so that block is pressed against T-bar without rolling back foam tape.

E. Apply sealant around exterior face of glass block completely filling channel. Tool sealant flush with surface.

F. Apply sealant to corner caps.

3.3 CLEANING

A. Clean exposed surfaces of aluminum grid with clean, soft cloth and mild hand soap using gentle rubbing action. Do not use abrasive or solvent type cleaners, detergents, or paint removers.

B. Remove labels from glass block and clean with soft cloth and water.

3.4 PROTECTION

    A. After installation, protect installed work from damage caused by subsequent operations at project site.

<div align="center">END OF SECTION</div>