SECTION 105503 – BOOK DEPOSITORIES

DRIVE-UP THROUGH WALL: OWENSVILLE, WRIGHT CITY, PACIFIC, WARRENTON AND SULLIVAN

CURB SIDE VERTICAL: NEW HAVEN, ST. CLAIRE, AND WARRENTON

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Drive-Up thru-wall horizontal book receptacles.
2. Curb Side Vertical book receptacles.

B. Related Sections:

1. Section 033000 "Cast-In-Place Concrete" for concrete pads under free standing book depositories.
2. Section 061000 "Rough Carpentry" for framing and furring in wall around thru-wall installation.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of book depository.
B. Shop Drawings: For book depository. Include plans, elevations, sections, details, and attachments to other work.

1. Include setting drawings, templates, and installation instructions for anchor bolts and other anchorages installed as part of the work of other Sections.

C. Samples for Initial Selection: For units with factory-applied color finishes.

1.4 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Plans and details of book chutes, drawn to scale, on which the following items in the vicinity of book chutes are shown and coordinated with book chutes, using input from Installers of the items involved:

1. Ductwork, piping, and their supporting members.
2. Partition-assembly bracing.
3. Electrical and Plumbing items.

B. Qualification Data: For qualified Installer.

C. Product Certificates: For each type of book depository required to comply with regulations, signed by product manufacturer.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For book depositories and finishes to include in maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Key Blanks: Five (5) for every lock or fraction thereof, for each type of compartment-door lock installed.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: A firm experienced in installing book depositories.

B. Manufacturer's Qualifications: Minimum two (2) years' experience manufacturing similar products.

C. Source Limitations for Each Type of Book Depository: Obtain from single source from single manufacturer.

D. Preinstallation Conference: Conduct conference at Project site.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's original unopened packaging. Store materials in original protective packaging. Prevent from soiling, physical damage, or moisture damage.

B. Deliver lock keys to Owner by registered mail or overnight package service with a record of each corresponding lock and key number.

1.9 COORDINATION

A. Coordinate layout and installation of book chutes and attachments to structure with other construction that passes through walls, or is supported by them in the vicinity of book chutes; including HVAC ductwork and equipment, fire-suppression system and other piping, and partition assemblies.

B. Coordinate layout and installation of through wall book depository with wall construction.

C. Templates: Obtain templates for installing book depositories and distribute to parties involved.

1.10 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of book depositories that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Structural failures.
b. Faulty operation of hardware.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Aluminum: Manufacturer's standard alloy and temper for type of use and finish indicated, and as follows:

1. Sheet and Plate: ASTM B 209 (ASTM B 209M).
2. Extruded Shapes: ASTM B 221 (ASTM B 221M).

B. Stainless-Steel Sheet: ASTM A 666, Type 304.

C. Stainless-Steel Anchor Bolts, Nuts, and Washers: ASTM A 193/A 193M, Grade B8M, Type 316.

D. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D 1187.

2.2 DRIVE-UP THRU-WALL HORIZONTAL BOOK RECEPTACLES

A. Front-Loading, Drive-Up Thru-Wall Horizontal Book Receptacles: A complete easy to install through wall system. The system includes the faceplate with Kwik Drop depository, attached chute housing with entry chute; slide chute, and Airbloc system plus all feature listed below.

The design allows it to be installed in walls up to 13 inches thick. Depository opening projects outward 10.5 inches (266.70 mm) to assist with easier deposit of materials from vehicle.

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings, Ease DriveDrop ThruWall System, Catalog # 10-8175 by Kingsley Companies, or comparable product by one of the following:

    a. Kingsley Companies.

2. Through Wall Exterior Construction/Features:

    a. Construction Materials: 16-gauge stainless steel exterior faceplate and depository door.
    b. Construction Methods: The depository door is mounted into a built in weather hood and opens inward and up. It is spring loaded and weight balanced allowing it to automatically close after materials have passed through. All edges are honed smooth.

3. Through Wall Interior Construction/Features:

    a. Construction Materials:

        1) Chute Housing: .040 inch aluminum housing.
        2) Entry Chute: .063 inch Stainless Steel and angled upwards.
        3) Slide Chute: .040 inch thick aluminum.
        4) Air Bloc: Neoprene (40 Duro) rubber panels.
        5) All edges are honed smooth.

    b. Construction Methods:

        1) The chute housing has four (4) sides, extends 13 inches from the faceplate and will cover the wall rough cuts when installed.
        2) The entry chute has an upward angle to prevent theft. Interior knob locking and unlocking system is located at the rear of the unit along the top panel. It is silk screened to read with locked and unlocked symbols.
        3) The neoprene rubber Air bloc panels are attached to the rear of the unit with Nylon rivets.

4. System Features:

    a. Weather Resistance: Spring loaded, weight balanced and weather sealed depository door helps to prevent the entry of rain and snow. Will not blow open in most winds. Weather stripping on the inside edges of the faceplate provide further protection from inclement weather.
    b. Air Draft Prevention: The Air Bloc system helps to eliminate drafts caused when the depository door is opened. It helps stabilize outside air temperature before it enters the building.
    c. Theft Deterrence: The angle of the entry chute, length of the side chute and the Airbloc system prevent reaching inside through the depository door and block phishing of materials with a claw apparatus.

d. Locking Method: The knob locking system at the rear of the unit controls a locking rod that locks the door from the inside of the building.
e. ADA Compliancy: ADA compliant when properly installed.
f. Available Wording: Self-adhesive decal in black that reads: BOOK RETURN.
g. Assembly Required: Attach slide to system.

5. Dimensions:

a. Overall Dimensions: 22 inches wide by 20 inches high by 25-1/8 inches deep (558.8 mm wide by 508.0 mm high by 638.17 mm deep).
b. Depository Opening: 18 inches wide by 3-1/4 inches high (457.2 mm wide by 82.6 mm high). Depository opening projects outward 10.5 inches (266.70 mm) to assist with easier deposit of material from vehicle.
c. Product Weight: 22 lbs. (9.98 kg.).
d. Shipping Method/Class: Ground or LTL/Class 150.

2.3 CURB SIDE VERTICAL BOOK RECEPTACLES

A. Free-Standing Curb Side Vertical Book Receptacles: A complete easy to install free-standing vertical book receptacle. The system includes cabinet that can hold up to 250 books or 625 DVD's; with rear access door, hood, and full bottom with ramp.

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings, 4Ever Return painted aluminum free-standing vertical Book receptacle, Catalog #00-9830 by Kingsley Companies, or comparable product by one of the following:

a. Kingsley Companies.

2. Mounting: Free-standing mounted to concrete pad.
3. Curbside Construction/Features:

a. Construction Materials: All component parts .080 aircraft grade aluminum.
b. Construction Methods:

1) Cabinet: One piece of aluminum forms all four (4) corners.
2) Access Door Header: Welded in place.
3) Hood: One piece. Faceplate and back seams welded in place. Fully sealed to prevent leaking. Hood can be field rotated 360 degrees.
4) Bottom: Full bottom raised ¾ inches (19.05 mm) with ramp.

c. Weather Resistance: No corner seams to leak or pull apart in heavy winds or under weight of snow. Sealed access door. Sloped bottom to shed water from inside the unit. Sloped and radius top to help shed water.
d. Theft Deterrence: Exclusive Kingsley theft deterrent chute design. Full length aluminum hinge on access door.
e. Fire Suppression: Air tight design smothers most fires in less than 1 minute.
f. Available Finish: Standard finish without Graffiti-X clear coat.
g. Available Wording: LIBRARY RETURN with no logo on unit.
h. Locking Method:

1) Depository Opening: Two keyed cam locks.
2) Cart Access Door: 3-point locking (top, bottom, and opening side). Keyed paddle lock with weather sealed lock cover to prevent freezing and keep dirt out. Door located on opposite side of depository opening (rear of unit).

i. Liquid Drainage System: Designed to divert liquid away from the collection area.
j. ADA Compliancy: ADA compliant when properly installed.
k. Assembly Required: Ships fully assembled.
l. Color: As selected by Architect from manufacturer's full range.

4. Dimensions:

a. Overall Dimensions: 37-1/8 inches long by 24 inches wide by 53-1/4 inches high (942.9 mm long by 609.6 mm wide by 1352.5 mm high).
b. Product Weight: 69 lbs. (31.30 kg).
c. Shipping Method/Class: Freight/Class 150.
d. Depository Opening: 18 inches wide by 3-1/2 inches high (457.2 mm wide by 88.9 mm high).

2.4 FABRICATION

A. Form book depositories to required shapes and sizes, with true lines and angles, square, rigid, and without warp, and with metal faces flat and free of dents or distortion. Make exposed metal edges and corners free of sharp edges and burrs and safe to touch. Fabricate doors of book depositories to preclude binding, warping, or misalignment.

B. Preassemble book depositories in shop to greatest extent possible to minimize field assembly.

C. Mill joints to a tight, hairline fit. Cope or miter corner joints. Form joints exposed to weather to exclude water penetration.

D. Drill or punch holes required for fasteners and remove burrs. Use security fasteners where fasteners are exposed. If used, seal external rivets before finishing.

E. Weld in concealed locations to greatest extent possible without distorting or discoloring exposed surfaces. Remove weld spatter and welding oxides from exposed surfaces.

F. Fabricate tubular and channel frame assemblies with manufacturer's standard welded or mechanical joints. Provide subframes and reinforcement as required for a complete system to support loads.

G. Where dissimilar metals will contact each other, protect against galvanic action by painting contact surfaces with bituminous coating or by applying other permanent separation as recommended by manufacturers of dissimilar metals.

2.5 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for roughing-in openings, clearances, and other conditions affecting performance of the Work.

B. Examine walls and other adjacent construction for suitable conditions where units will be installed.

C. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install book depository level and plumb, according to manufacturer's written instructions and roughing-in drawings.

1. Where dissimilar metals will be in permanent contact with each other, protect against galvanic action by painting contact surfaces with bituminous coating or by applying other permanent separation as recommended by manufacturer for this purpose.
2. Where aluminum will contact grout, concrete, masonry, or wood, protect against corrosion by painting contact surfaces with bituminous coating.

B. Drive-Up Thru-Wall Horizontal Book Receptacles: Install horizontal book receptacles at the maximum and minimum heights above finished floor established by the manufacturer's written instructions.

1. Rough Cut Dimensions and Trim:

a. 36-1/2 inches (927.10 mm) from exterior floor to bottom of cut out.
b. Rough cut opening 20-3/16 inches wide by 18-5/16 inches high (512.76 mm wide by 465.1 mm high) all the way through the wall.
c. ¼ inch (6.35 mm) trim on the top, bottom and sides of opening.

C. Freestanding Vertical Book Receptacles: Locate freestanding data distribution boxes at locations indicated or, if not indicated, as directed by Architect.

1. Anchor units with ½-inch- (13-mm-) diameter, stainless-steel expansion anchors into concrete pad.

3.3 ADJUSTING, CLEANING, AND PROTECTION

A. Remove temporary protective coverings and strippable films, if any, as book depositories are installed unless otherwise indicated in manufacturer's written installation instructions.

B. Adjust doors, hardware, and moving parts to function smoothly, and lubricate as recommended by manufacturer. Verify that integral locking devices operate properly.

C. Touch up marred finishes or replace book depositories that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by book depository manufacturer.

D. Replace book depositories that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

E. On completion of book depository installation, clean interior and exterior surfaces as recommended by manufacturer.

END OF SECTION 105503