SECTION 08 56 19

PASS-THRU WINDOWS

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

*Copyright 2008 - 2024 ARCAT, Inc. - All rights reserved*

\*\* NOTE TO SPECIFIER \*\* Ready Access Drive-Thru Windows; pass thru window products.  
.  
This section is based on the products of Ready Access Drive-Thru Windows, which is located at:1815 Arthur Dr.West Chicago, IL 60185Toll Free Tel: 800-621-5045Tel: 630-876-7766Fax: 630-876-7767Email: [request info (ready@ready-access.com)](https://arcat.com/rfi?action=email&company=Ready%252BAccess%252BDrive-Thru%252BWindows&message=RE%253A%2520Spec%2520Question%2520(08582rea)%253A%2520&coid=35105&spec=08582rea&rep=&fax=630-876-7767)  
Web: <http://www.ready-access.com>   
 [ [Click Here](https://arcat.com/company/ready-access-drive-thru-windows-35105) ] for additional information.  
A trusted market leader for nearly 40 years, specified by the largest chains worldwide. Patented design, 5-10 day lead time on standard windows, and energy-efficient initiatives including the only NFRC certified pass-thru. Designs for cold climate, warm climate, west coast health code, hurricane and security.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Flush mount pass-thru windows.
    2. Bump out pass-thru windows.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 07 62 00 - Sheet Metal Flashing and Trim.
    2. Section 07 91 23 - Backer Rods.
    3. Section 26 05 00 - Common Work Results for Electrical.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM A 240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.
    2. ASTM A 653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
    3. ASTM B 209 - Aluminum and Aluminum-Alloy Sheet and Plate.
    4. ASTM B 221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
    5. ASTM B 580 - Standard Specification for Anodic Oxide Coatings on Aluminum.
    6. ASTM B 680 - Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution.
    7. ASTM C 1048 - Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.
    8. ASTM C 1172 - Standard Specification for Laminated Architectural Flat Glass.
    9. ASTM E 774 - Standard Specification for Sealed Insulating Glass Units.
    10. Aluminum Association AA DAF-45 - Designation System for Aluminum Finishes.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     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. Installation methods.
     3. Shop Drawings: Include plans, elevations, sections, and details, indicating dimensions, tolerances, materials, fabrication, glazing, fasteners, hardware, finish, electrical wiring diagrams, options, and accessories.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
    3. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
    4. Operation and Maintenance Manual: Submit manufacturer's operation and maintenance manual, including operation, maintenance, adjustment, and cleaning instructions, trouble shooting guide, parts list, and electrical wiring diagrams.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Minimum of 25 years successful experience continuously manufacturing pass-thru windows.
     2. Installer Qualifications: Installer shall have five years experience manufacturing and fabricating windows of similar type and scope as those specified in this section.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Store products in manufacturer's unopened packaging with labels clearly identifying product name and manufacturer until ready for installation.
     2. Storage: Store materials in clean, dry area indoors until ready for installation.
     3. Handling: Protect materials and finish from damage during handling and installation.
  2. SEQUENCING
     1. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
     2. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Ready Access Drive-Thru Windows, which is located at:1815 Arthur Dr.West Chicago, IL 60185Toll Free Tel: 800-621-5045Tel: 630-876-7766Fax: 630-876-7767Email: [request info (ready@ready-access.com)](https://arcat.com/rfi?action=email&company=Ready%252BAccess%252BDrive-Thru%252BWindows&message=RE%253A%2520Spec%2520Question%2520(08582rea)%253A%2520&coid=35105&spec=08582rea&rep=&fax=630-876-7767);Web: <http://www.ready-access.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Select the flush mount or bump-out pass thru window(s) as required from the following paragraphs and delete those not required.

* 1. FLUSH MOUNTED PASS-THRU WINDOWS
     1. Single Panel Pass-Thru Windows: Ready Access 275 Series Single Panel Pass-Thru Window.

\*\* NOTE TO SPECIFIER \*\* Select one of the following size paragraphs and delete those not required.

* + - 1. Opening:

\*\* NOTE TO SPECIFIER \*\* Select one of the following size paragraphs and delete those not required.

* + - * 1. Overall Opening 47-1/2 inches wide by 43-1/2 inches high and a Service Opening 19 inches wide by 36 inches high.
        2. Overall Opening 47-1/2 inches wide by 35-3/4 inches high and a Service Opening 19 inches wide by 28 inches high.

\*\* NOTE TO SPECIFIER \*\* The following three service opening windows meet the California health department restricted opening requirements of 432 square inches.

* + - * 1. Overall Opening 47-1/2 inches wide by 35-3/4 inches high and a Service Opening 15 inches wide by 28 inches high.
        2. Overall Opening 35-3/4 inches wide by 35-3/4 inches high and a Service Opening 14 inches wide by 28 inches high.
        3. Custom: \_\_\_\_\_\_\_\_ inches wide by \_\_\_\_\_\_\_\_ inches high.
      1. Door Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete those not required. Note that 14 inch by 24 inch service opening is available Manual Open/Self Close only.

* + - * 1. Manual Open/Self Close.
        2. Manual Open/Manual Close.
        3. Manual Open/Electronic Release.
        4. Automatic Electric Open/Close.
      1. Door Type: Sliding, 1 door panel.
      2. Opening Direction:

\*\* NOTE TO SPECIFIER \*\* Select the opening direction required and delete the one not required.

* + - * 1. Right to left from outside (customers view).
        2. Left to right from outside (customers view).
      1. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
      2. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      3. Galvanized Steel Sheet: ASTM A 653, G90.
      4. Bottom Sill: Angled downward, track-free.
      5. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
      6. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Black Delrin handle with pressed-in stainless steel spring pins. Stainless steel handle mounting bracket. Stainless steel spring-loaded mounting base.
      4. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum Color dark bronze.
         2. Anodized Aluminum Color clear aluminum.
         3. Powder Drylac RAL#. Coat Finish Color as selected by the Architect.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph for Manual Open/Electronic Release operation only.

* + - 1. Electrical: A separate 104/120 Volt, 3 Amp, 60 Hz circuit.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph for Automatic Electric Open/Close operation only. Select the power required and delete the one not required.

* + - 1. Electrical:
         1. A separate 115 Volt, 60 Hz, with 15 Amp branch circuit.
         2. A separate 220 Volt, 50/60 Hz, with 8 Amp branch circuit.
    1. Single Panel Low Profile Pass-Thru Windows: Ready Access 275 Low Profile Single Panel Series Pass-Thru Window.
       1. Opening:

\*\* NOTE TO SPECIFIER \*\* Select one of the following size paragraphs and delete those not required.

* + - * 1. Overall Opening 47-1/2 inches wide by 43-1/2 inches high and a Service Opening 19 inches wide by 36 inches high.
        2. Overall Opening 47-1/2 inches wide by 35-3/4 inches high and a Service Opening 19 inches wide by 28 inches high.
        3. Custom: \_\_\_\_\_\_\_\_ inches wide by \_\_\_\_\_\_\_\_ inches high.

\*\* NOTE TO SPECIFIER \*\* The following two service opening windows meet the California health department restricted opening requirements of 432 square inches.

* + - * 1. Overall Opening 47-1/2 inches wide by 35-3/4 inches high and a Service Opening 15 inches wide by 28 inches high.
        2. Overall Opening 35-3/4 inches wide by 35-3/4 inches high and a Service Opening 14 inches wide by 28 inches high.
      1. Door Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete those not required. Note that 14 inch by 24 inch service opening is available Manual Open/Self Close only.

* + - * 1. Manual Open/Self Close.
        2. Manual Open/Manual Release.
        3. Manual Open/Electronic Release.
      1. Door Type: Sliding, 1 door panel.
      2. Opening Direction:

\*\* NOTE TO SPECIFIER \*\* Select the opening direction required and delete the one not required.

* + - * 1. Right to left from outside (customers view).
        2. Left to right from outside (customers view).
      1. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
      2. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      3. Galvanized Steel Sheet: ASTM A 653, G90.
      4. Bottom Sill: Angled downward, track-free.
      5. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
      6. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Black Delrin handle with pressed-in stainless steel spring pins. Stainless steel handle mounting bracket. Stainless steel spring-loaded mounting base.
      4. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum Color dark bronze.
         2. Anodized Aluminum Color clear aluminum.
         3. Powder Drylac RAL#. Coat Finish Color as selected by the Architect.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph for Manual Open/Electronic Release operation only.

* + - 1. Electrical: A separate 104/120 Volt, 3 Amp, 60 Hz circuit.

\*\* NOTE TO SPECIFIER \*\* The following pass-thru window meets the California health department restricted opening requirements of 432 square inches and where health codes require a fly fan.

* + 1. Single Panel Pass-Thru Window with Transom: Ready Access 275 West Coast Single Panel Electric Slider Window with integrated double split transom and fly fan.
       1. Opening:

\*\* NOTE TO SPECIFIER \*\* Select one of the following opening paragraphs and delete those not required.

* + - * 1. Overall Opening with Transom: 47-1/2 inches wide by 59-1/2 inches high.
        2. Service Opening: 15 inches wide by 28 inches high.
        3. Service Opening: 19 inches wide by 22 inches high.
      1. Door Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete those not required.

* + - * 1. Manual Open/Self Close.
        2. Manual Open/Electronic Release.
        3. Automatic Electric Open/Close.
      1. Door Type: Sliding, 1 door panel.
      2. Opening Direction:

\*\* NOTE TO SPECIFIER \*\* Select the opening direction required and delete the one not required.

* + - * 1. Right to left from outside (customers view).
        2. Left to right from outside (customers view).
      1. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
      2. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      3. Galvanized Steel Sheet: ASTM A 653, G90.
      4. Bottom Sill: Angled downward, track-free.
      5. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
      6. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Black Delrin handle with pressed-in stainless steel spring pins. Stainless steel handle mounting bracket. Stainless steel spring-loaded mounting base.
      4. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum Color bronze.
         2. Anodized Aluminum Color aluminum.
         3. Powder Coat Finish Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph for Automatic Electric Open/Close operation only. Select the power required and delete the one not required.

* + - 1. Electrical:
         1. A separate 115 Volt, 60 Hz. 15 Amp branch circuit.
         2. A separate 220 Volt, 60 Hz. 8 Amp branch circuit.

\*\* NOTE TO SPECIFIER \*\* The following air curtains are optional accessories. Select the air curtain required or delete if not required. Satisfies requirements for fly fan applications.

* + - 1. Air Curtains: Access Air AA100 Fly Fan.
         1. Mode of Operation: Outside fly fan.
         2. Dimensions: 22 inches wide by 11-3/4 inches high by 13 inches deep.
         3. Air Velocity: 600 feet per minute.
         4. Electrical: A separate 104/120 Volt, 3 Amp, 60 Hz circuit.
         5. UL Listed: E193191, 98AL.
         6. Exterior Housing: Aluminum sheet, ASTM B 209, Alloy 5005-AQ-H34.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - * 1. Finish:

Anodized Aluminum Color dark bronze.

Anodized Aluminum Color clear aluminum.

Powder Drylac RAL#. Coat Finish Color as selected by the Architect.

* + - 1. Air Curtains: Access Air AA275 Pass-Thru Air Curtain System.
         1. Modes of Operation:

Outside warm air flow only.

Inside warm air flow only.

Both outside and inside warm air flow.

Outside fly fan only.

* + - * 1. Dimensions: 47-1/2 inches wide by 16 inches high by 21-3/4 inches deep.
        2. Air Velocity: 600 feet per minute.
        3. Heater: 7,100 watts.
        4. Electrical: A separate 208/240 Volt, 32 A, 60 Hz, 1-phase circuit.
        5. UL Listed: E186519, 35HL.
        6. Exterior Housing: Aluminum sheet, ASTM B 209, Alloy 5005-AQ-H34.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - * 1. Finish:

Anodized Aluminum Color bronze.

Anodized Aluminum Color aluminum.

Powder Coat Finish Color as selected by the Architect from the manufacturer's stock colors.

* + 1. Single Panel Pass Thru Windows: 600 Series Flush-Mount Window with 3/4 inch glazing.
       1. Approvals:
          1. Miami-Dade County Product Approval N.O.A. No. 16-0307.06, Large and Small Missile: 11/16-inch Secur-Temp 4 Glazing, ASTM C 1036
          2. Miami-Dade County Product Approval N.O.A. No. 16-0307-07, Non-Impact: 3/4-inch insulated glass, ASTM E 773 and E 774.
       2. Window Dimensions:

\*\* NOTE TO SPECIFIER \*\* Select the size required. Delete those not required.

* + - * 1. 47-1/2 inches wide by 43-1/2 inches high by 4-1/2 inches deep.
        2. 47-1/2 inches wide by 35-3/4 inches high by 4-1/2 inches deep.
        3. \_\_\_\_\_\_ inches wide by \_\_\_\_\_\_ inches high by \_\_\_\_\_\_ inches deep.
      1. Service Panel Operation:

\*\* NOTE TO SPECIFIER \*\* Select the operator required. Delete those not required.

* + - * 1. Manual open/self closing.
        2. Manual Open/Electronic Release.
        3. Fully automatic electric.
      1. Service Panel Type: Sliding, 1 panel.
      2. Opening Direction: Customer View-Outside

\*\* NOTE TO SPECIFIER \*\* Select the opening direction required. Delete those not required.

* + - * 1. Right to left.
        2. Left to right.
      1. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
      2. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      3. Galvanized Steel Sheet: ASTM A 653, G90.
      4. Security:

\*\* NOTE TO SPECIFIER \*\* Delect self latch or deadbolt as required. Delete the optional security bar set if not required.

* + - * 1. Self-latches each time panel closes. Self-latching Adams Rite MS1847 Series with Adams Rite 1000 Series turn.
        2. Deadbolt lock. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumb turn.
        3. Deadbolt lock. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumb turn and keyed mortise cylinder.
        4. Security bar set.
      1. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      2. Handle: Stainless steel.
      3. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass required. Delete the paragraphs not required.

* + - * 1. 3/4-inch insulated glass, ASTM E 773 and E 774.
        2. 11/16 inch Secur-Tem 4 ASTM C 1036-91 Smash and Grab
        3. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F 1233.
        4. SP 175 3/4 inch Secur-Tem and Poly ASTM C 1036-91 Level 1
        5. 3/4 inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
      1. Silicone Glazing Sealant: Dow Corning 999A, aluminum.
      2. Electrical: UL Listed: E186519, 35HL.

\*\* NOTE TO SPECIFIER \*\* Select the service required. Delete the one not required.

* + - * 1. 115 V, 60 Hz, with 15 A branch circuit.
        2. 220 V, 50/60 Hz, with 8 A branch circuit.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - 1. Finish:
         1. Anodized Aluminum Color bronze.
         2. Anodized Aluminum Color aluminum.
         3. Powder Coat Finish Color as selected by the Architect from the manufacturer's stock colors.
    1. Single Panel Pass Thru Windows: 601 Series Flush-Mount Window.
       1. Approvals:
          1. Miami-Dade County Product Approval N.O.A. No. 16-0307.06, Large and Small Missile: 11/16-inch Secur-Temp 4 Glazing, ASTM C 1036
          2. Miami-Dade County Product Approval N.O.A. No. 16-0307-07, Non-Impact: 3/4-inch insulated glass, ASTM E 773 and E 774.
       2. Window Dimensions:

\*\* NOTE TO SPECIFIER \*\* Select the size required. Delete those not required.

* + - * 1. 47-1/2 inches wide by 60 inches high by 4-1/2 inches deep.
        2. 47-1/2 inches wide by 52-3/4 inches high by 4-1/2 inches deep.
        3. \_\_\_\_\_\_ inches wide by \_\_\_\_\_\_ inches high by \_\_\_\_\_\_ inches deep.
      1. Service Panel Operation:

\*\* NOTE TO SPECIFIER \*\* Select the operator required. Delete those not required.

* + - * 1. Manual open/self closing.
        2. Manual Open/Electronic Release.
        3. Fully automatic electric.
      1. Service Panel Type: Sliding, 1 panel.
      2. Opening Direction: Customer View-Outside

\*\* NOTE TO SPECIFIER \*\* Select the opening direction required. Delete those not required.

* + - * 1. Right to left.
        2. Left to right.
      1. Security Transaction Drawer: Stainless steel, 18-5/16 inches wide by 9-1/2 inches high by 14-9/32 inches deep transfer area, money clip, change cup. Automatically locks when closed. Manual latch lock. UL-rated Level 1 with UL-rated Level 3 bullet-resistant insert in faceplate.
      2. Security Cash Transaction Drawer: Stainless steel, 12 inches wide by 16-3/4 inches long by 3-3/4 inches high, money clip. Manual latch lock. UL-rated Level 3 bullet-resistant insert in faceplate.
      3. Speaker System: AIPHONE Model LEM-1, prewired.
      4. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
      5. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      6. Galvanized Steel Sheet: ASTM A 653, G90.
      7. Security:

\*\* NOTE TO SPECIFIER \*\* Delect self latch or deadbolt as required. Delete the optional security bar set if not required.

* + - * 1. Self-latches each time panel closes. Self-latching Adams Rite MS1847 Series with Adams Rite 1000 Series turn.
        2. Deadbolt lock. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumb turn.
        3. Deadbolt lock. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumb turn and keyed mortise cylinder.
        4. Security bar set.
      1. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      2. Handle: Stainless steel.
      3. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass required. Delete the paragraphs not required.

* + - * 1. 3/4-inch insulated glass, ASTM E 773 and E 774.
        2. 11/16 inch Secur-Tem 4 ASTM C 1036-91 Smash and Grab
        3. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F 1233.
        4. SP 175 3/4 inch Secur-Tem and Poly ASTM C 1036-91 Level 1
        5. 3/4 inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
      1. Silicone Glazing Sealant: Dow Corning 999A, aluminum.
      2. Electrical: UL Listed: E186519, 35HL.

\*\* NOTE TO SPECIFIER \*\* Select the service required. Delete the one not required.

* + - * 1. 115 V, 60 Hz, with 15 A branch circuit.
        2. 220 V, 60 Hz, with 8 A branch circuit.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - 1. Finish:
         1. Anodized Aluminum Color bronze.
         2. Anodized Aluminum Color aluminum.
         3. Powder Coat Finish Color as selected by the Architect from the manufacturer's stock colors.
    1. Single Panel Pass Thru Windows: 603 Series Flush-Mount Window.
       1. Approvals:
          1. Miami-Dade County Product Approval N.O.A. No. 16-0307.06, Large and Small Missile: 11/16-inch Secur-Temp 4 Glazing, ASTM C 1036
          2. Miami-Dade County Product Approval N.O.A. No. 16-0307-07, Non-Impact: 3/4-inch insulated glass, ASTM E 773 and E 774.
       2. Window Dimensions:

\*\* NOTE TO SPECIFIER \*\* Select the size required. Delete those not required.

* + - * 1. 47-1/2 inches wide by 58-1/2 inches high by 4-1/2 inches deep.
        2. 47-1/2 inches wide by 50-3/4 inches high by 4-1/2 inches deep.
        3. \_\_\_\_\_\_ inches wide by \_\_\_\_\_\_ inches high by \_\_\_\_\_\_ inches deep.
      1. Service Panel: Fixed
      2. Security Transaction Drawer: Stainless steel, 18-5/16 inches wide by 9-1/2 inches high by 14-9/32 inches deep transfer area, money clip, change cup. Automatically locks when closed. Manual latch lock. UL-rated Level 1 with UL-rated Level 3 bullet-resistant insert in faceplate.
      3. Security Cash Transaction Drawer: Stainless steel, 12 inches wide by 16-3/4 inches long by 3-3/4 inches high, money clip. Manual latch lock. UL-rated Level 3 bullet-resistant insert in faceplate.
      4. Speaker System: AIPHONE Model LEM-1, prewired.
      5. Interior Counter: Stainless steel, ASTM A 240, Type 304, No.4 finish.
      6. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
      7. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      8. Galvanized Steel Sheet: ASTM A 653, G90.
      9. Security: Security bar set.
      10. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      11. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass required. Delete the paragraphs not required.

* + - * 1. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F 1233.
        2. SP 175 3/4 inch Secur-Tem and Poly ASTM C 1036-91 Level 1
        3. 3/4 inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
        4. 1-1/4-inch GE Lexgard SP-1250 Laminate. 4-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 3.
      1. Silicone Glazing Sealant: Dow Corning 999A, aluminum.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - 1. Finish:
         1. Anodized Aluminum Color bronze.
         2. Anodized Aluminum Color aluminum.
         3. Powder Coat Finish Color as selected by the Architect from the manufacturer's stock colors.
      2. Air Curtains: Access Air AA300 Heated Air Curtain System.
         1. Modes of Operation:

Outside warm air flow only.

Inside warm air flow only.

Both outside and inside warm air flow.

Outside fly fan only.

* + - * 1. Dimensions: 47-1/2 inches wide by 16 inches high by 21-3/4 inches deep.
        2. Air Velocity: 600 feet per minute.
        3. Heater: 7,100 watts.
        4. Electrical: A separate 208/240 Volt, 32 Amp, 60 Hz, 1-phase circuit.
        5. UL Listed: E186519, 35HL.
        6. Exterior Housing: Aluminum sheet, ASTM B 209, Alloy 5005-AQ-H34.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - * 1. Finish:

Anodized Aluminum: Color dark bronze.

Anodized Aluminum: Color clear aluminum.

Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

* + 1. Bi-Parting Pass-Thru Windows: Ready Access 131 Bi-Parting Slider Window.
       1. Opening:

\*\* NOTE TO SPECIFIER \*\* Select one of the following size paragraphs and delete those not required.

* + - * 1. Overall Opening 53-1/2 inches wide by 37-3/4 inches high and a Service Opening of 18 inches wide by 31 inches high. Adjustable to 18 inches or 12 inches wide.
        2. Overall Opening 53-1/2 inches wide by 43-3/4 inches high and a Service Opening of 18 inches wide by 37 inches high. Adjustable to 18 inches or 12 inches wide.
        3. Custom: \_\_\_\_\_\_\_\_ inches wide by \_\_\_\_\_\_\_\_ inches high.
      1. Door Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete those not required.

* + - * 1. Manual Open/Self Close.
        2. Fully automatic with electronic presence sensor.
      1. Door Type: Bi-parting, sliding, two door panels with two fixed side panels.
      2. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
      3. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      4. Galvanized Steel Sheet: ASTM A 653, G90.
      5. Bottom Sill: Track-free.
      6. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
      7. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.

\*\* NOTE TO SPECIFIER \*\* Delete the handle for fully automatic door operation.

* + - 1. Handle: Black Delrin handle with pressed-in stainless steel spring pins. Stainless steel handle mounting bracket. Stainless steel spring-loaded pins.
      2. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum: Color dark bronze.
         2. Anodized Aluminum: Color clear aluminum.
         3. Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph for Automatic Electric Open/Close operation only. Select the power required and delete the one not required.

* + - 1. Electrical:
         1. A separate 115 Volt, 60 Hz. 15 Amp branch circuit.
         2. A separate 220 Volt, 60 Hz. 8 Amp branch circuit.

\*\* NOTE TO SPECIFIER \*\* The following pass-thru window meets health department requirements where health codes require a fly fan.

* + 1. Bi-Parting Pass-Thru Windows With Transom: Ready Access 131 Bi-Parting Slider Window with integrated triple split transom and fly fan..
       1. Opening:

\*\* NOTE TO SPECIFIER \*\* Select one of the following size paragraphs and delete those not required.

* + - * 1. Overall Opening with Transom 53-1/2 inches wide by 51-1/2 inches high and a Service Opening of 18 inches wide by 31 inches high. Adjustable to 18 inches or 12 inches wide.
        2. Overall Opening with Transom 53-1/2 inches wide by 57-1/2 inches high and a Service Opening of 18 inches wide by 37 inches high. Adjustable to 18 inches or 12 inches wide.
        3. Custom: \_\_\_\_\_\_\_\_ inches wide by \_\_\_\_\_\_\_\_ inches high.
      1. Door Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete those not required.

* + - * 1. Manual Open/Self Close.
        2. Fully automatic with electronic presence sensor.
      1. Door Type: Bi-parting, sliding, two door panels with two fixed side panels.
      2. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
      3. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      4. Galvanized Steel Sheet: ASTM A 653, G90.
      5. Bottom Sill: Track-free.
      6. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
      7. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.

\*\* NOTE TO SPECIFIER \*\* Delete the handle for fully automatic door operation.

* + - 1. Handle: Black Delrin handle with pressed-in stainless steel spring pins. Stainless steel handle mounting bracket. Stainless steel spring-loaded pins.
      2. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum: Color dark bronze.
         2. Anodized Aluminum: Color clear aluminum.
         3. Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Include the following paragraph for Automatic Electric Open/Close operation only. Select the power required and delete the one not required.

* + - 1. Electrical:
         1. A separate 115 Volt, 60 Hz. 15 Amp branch circuit.
         2. A separate 220 Volt, 60 Hz. 8 Amp branch circuit.

\*\* NOTE TO SPECIFIER \*\* The following air curtains are optional accessories. Select the air curtain required or delete if not required. Satisfies requirements for fly fan applications.

* + - 1. Air Curtains: Access Air AA100 Fly Fan.
         1. Mode of Operation: Outside fly fan.
         2. Dimensions: 22 inches wide by 11-3/4 inches high by 13 inches deep.
         3. Air Velocity: 600 feet per minute.
         4. Electrical: A separate 104/120 Volt, 3 Amp, 60 Hz circuit.
         5. UL Listed: E193191, 98AL.
         6. Exterior Housing: Aluminum sheet, ASTM B 209, Alloy 5005-AQ-H34.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - * 1. Finish:

Anodized Aluminum: Color dark bronze.

Anodized Aluminum: Color clear aluminum.

Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

* + - 1. Air Curtains: Access Air AA275 Pass-Thru Air Curtain System.
         1. Modes of Operation:

Outside warm air flow only.

Inside warm air flow only.

Both outside and inside warm air flow.

Outside fly fan only.

* + - * 1. Dimensions: 47-1/2 inches wide by 16 inches high by 21-3/4 inches deep.
        2. Air Velocity: 600 feet per minute.
        3. Heater: 7,100 watts.
        4. Electrical: A separate 208/240 Volt, 32 A, 60 Hz, 1-phase circuit.
        5. UL Listed: E186519, 35HL.
        6. Exterior Housing: Aluminum sheet, ASTM B 209, Alloy 5005-AQ-H34.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - * 1. Finish:

Anodized Aluminum Color bronze.

Anodized Aluminum Color aluminum.

Powder Coat Finish Color as selected by the Architect from the manufacturer's stock colors.

* + - 1. Air Curtains: Access Air AA300 Pass-Thru Air Curtain System.
         1. Modes of Operation:

Outside warm air flow only.

Inside warm air flow only.

Both outside and inside warm air flow.

Outside fly fan only.

* + - * 1. Dimensions: 47-1/2 inches wide by 16 inches high by 21-3/4 inches deep.
        2. Air Velocity: 600 feet per minute.
        3. Heater: 7,100 watts.
        4. Electrical: A separate 208/240 Volt, 32 Amp, 60 Hz, 1-phase circuit.
        5. UL Listed: E186519, 35HL.
        6. Exterior Housing: Aluminum sheet, ASTM B 209, Alloy 5005-AQ-H34.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - * 1. Finish:

Anodized Aluminum: Color dark bronze.

Anodized Aluminum: Color clear aluminum.

Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

* + - 1. Air Curtains: Access Air Inside Mount Low-Profile Window Air Curtain System.

\*\* NOTE TO SPECIFIER \*\* Select the Model required. Delete those not required.

* + - * 1. Model:

RAC-E-22 heated.

RAC-22 Unheated.

Both outside and inside warm air flow.

Outside fly fan only.

* + - * 1. Dimensions: 26.8 inches wide by 7.1 inches high by 9.1 inches deep with 22.6 inch nozzle width.
        2. Air Velocity/Nozzle Hight: 1,050 feet per minute at 36 inches, 926 per minute at 44 inches, 710 per minute at 60 inches,
        3. Electrical Requirements:

\*\* NOTE TO SPECIFIER \*\* Select the Model required. Delete those not required

RAC-E-11 Heated 1550 watts. A separate 120 Volt, 20 Amp, 60 Hz, 1-phase circuit

RAC-22 Unheated: A separate 120 Volt, 20 Amp, 60 Hz, 1-phase circuit

* + - * 1. UL Listed: E186519, 35HL.
        2. Exterior Housing: Aluminum sheet, ASTM B 209, Alloy 5005-AQ-H34.

\*\* NOTE TO SPECIFIER \*\* Select Accessories if required. Delete if not required.

Accessories; MountingSwitch Package to Integrate Window & Fan Operation. For mounting on window with attached transom or wall.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - * 1. Finish:

Anodized Aluminum: Color black bronze.

Anodized Aluminum: Color clear aluminum.

* + 1. Fold Out Pass-Thru Windows: Ready Access Flushmount 3 Window with integrated transom.
       1. Opening:
          1. Overall Opening with Transom: 27-1/4 inches wide by 41 inches high.
          2. Service Opening: 18 inches wide by 18 inches high.
       2. Door Operation:
          1. Manual.
       3. Door Type: Bi-parting, folding outward, 2 door panels.
       4. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
       5. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
       6. Galvanized Steel Sheet: ASTM A 653, G90.
       7. Bottom Sill: Track-free.
       8. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
       9. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Stainless steel.
      4. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:

Anodized Aluminum: Color dark bronze.

Anodized Aluminum: Color clear aluminum.

Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Delete the optional shelf if not required.

* + - 1. Shelf: Exterior/interior, stainless steel, 28 inches wide by 10 inches deep.
    1. Fold Out Pass-Thru Windows: Ready Access Flushmount 3X Window.
       1. Opening:
          1. Overall Opening: 27-1/4 inches wide by 26 inches high.
          2. Service Opening: 18 inches wide by 18 inches high.
       2. Door Operation:
          1. Manual.
       3. Door Type: Bi-parting, folding outward, 2 door panels.
       4. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
       5. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
       6. Galvanized Steel Sheet: ASTM A 653, G90.
       7. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
       8. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Stainless steel.
      4. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum: Color dark bronze.
         2. Anodized Aluminum: Color clear aluminum.
         3. Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Delete the optional shelf if not required.

* + - 1. Shelf: Exterior/interior, stainless steel, 28 inches wide by 10 inches deep.
    1. Fold Out Pass-Thru Windows: Ready Access Flushmount 3T Window.
       1. Opening:
          1. Overall Opening: 27-1/4 inches wide by 41 inches high.
          2. Service Opening: 18 inches wide by 33 inches high.
       2. Door Operation:
          1. Manual.
       3. Door Type: Bi-parting, folding outward, 2 door panels.
       4. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
       5. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
       6. Galvanized Steel Sheet: ASTM A 653, G90.
       7. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
       8. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Stainless steel.
      4. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum: Color dark bronze.
         2. Anodized Aluminum: Color clear aluminum.
         3. Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Delete the optional shelf if not required.

* + - 1. Shelf: Exterior/interior, stainless steel, 28 inches wide by 10 inches deep.
  1. BUMP OUT PASS-THRU WINDOWS
     1. Bump-Out Pass-Thru Windows: Ready Access Bump-Out 2 Window.
        1. Opening:
           1. Overall Size: 27-3/4 inches wide by 48-3/4 inches high by 15-3/4 inches deep.
           2. Service Opening: 19 inches wide by 32 inches high.
        2. Door Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete those not required.

* + - * 1. Semi-Automatic with padded plunger.
        2. Fully automatic with electronic presence sensor.
      1. Door Type: Bi-parting, sliding, 2 door panels.
      2. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
      3. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      4. Galvanized Steel Sheet: ASTM A 653, G90.
      5. Counter Top: Stainless steel, ASTM A 240, Type 304, No.4 finish. Track-free.
      6. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
      7. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Stainless steel.
      4. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:

Anodized Aluminum: Color dark bronze.

* + - * 1. Anodized Aluminum: Color clear aluminum.
        2. Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Specify one of the following electrical requirements for fully automatic door operation.

* + - 1. Electrical:
         1. A separate 115 Volt, 60 Hz. 15 Amp branch circuit.
         2. A separate 220 Volt, 60 Hz. 8 Amp branch circuit.
    1. Bump-Out Pass-Thru Windows: Ready access Bump-Out 4 Window.
       1. Opening:
          1. Overall Size: 27-3/4 inches wide by 48-3/4 inches high by 15-3/4 inches deep.
          2. Service Opening: 19 inches wide by 32 inches high.
       2. Door Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete those not required.

* + - * 1. Semi-Automatic with padded plunger.
        2. Fully automatic with electronic presence sensor.
      1. Door Type: Bi-parting, sliding, 2 door panels.
      2. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
      3. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      4. Galvanized Steel Sheet: ASTM A 653, G90.
      5. Counter Top: Stainless steel, ASTM A 240, Type 304, No.4 finish. Track-free.
      6. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
      7. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Stainless steel.
      4. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum: Color dark bronze.
         2. Anodized Aluminum: Color clear aluminum.
         3. Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Specify one of the following electrical requirements for fully automatic door operation.

* + - 1. Electrical:
         1. A separate 115 Volt, 60 Hz. 15 Amp branch circuit.
         2. A separate 220 Volt, 60 Hz. 8 Amp branch circuit.
    1. Bump-Out Pass-Thru Windows: Ready Access Bump-Out 10 Window.
       1. Opening:
          1. Overall Size: 53-1/2 inches wide by 48-3/4 inches high by 14-1/4 inches deep.
          2. Service Opening: 18 inches wide by 23 inches high. Adjustable to 18 inches or 12 inches wide.
       2. Door Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete those not required.

* + - * 1. Manual Open/Self Close.
        2. Fully automatic with electronic presence sensor.
      1. Door Type: Bi-parting, sliding, 2 door panels.
      2. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
      3. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      4. Galvanized Steel Sheet: ASTM A 653, G90.
      5. Counter Top: Stainless steel, ASTM A 240, Type 304, No.4 finish. Track-free.
      6. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
      7. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Black Delrin handle. Stainless steel handle mounting bracket.
      4. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum: Color dark bronze.
         2. Anodized Aluminum: Color clear aluminum.
         3. Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Specify one of the following electrical requirements for fully automatic door operation.

* + - 1. Electrical:
         1. A separate 115 Volt, 60 Hz. 15 Amp branch circuit.
         2. A separate 220 Volt, 60 Hz. 8 Amp branch circuit.
    1. Bump-Out Pass-Thru Windows: Ready Access Bump-Out 10 RX Window.
       1. Opening:
          1. Overall Size: 53-1/2 inches wide by 48-3/4 inches high by 14-1/4 inches deep.
          2. Service Opening: 18 inches wide by 23 inches high. Adjustable to 18 inches or 12 inches wide.
       2. Door Operation:

\*\* NOTE TO SPECIFIER \*\* Select one of the following operation paragraphs and delete those not required.

* + - * 1. Manual Open/Self Close.
        2. Fully automatic with electronic presence sensor.
      1. Door Type: Bi-parting, sliding, 2 door panels.
      2. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6 and 6063-T52.
      3. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      4. Galvanized Steel Sheet: ASTM A 653, G90.
      5. Counter Top: Stainless steel, ASTM A 240, Type 304, No.4 finish. Track-free.
      6. Drop Box: Exterior hinged flap, angled tunnel, 10-inch wide by 6-inch high by 10-inch deep reservoir bin.
      7. Automatic Security Lock: Aluminum bar extrusion with sliding spring-loaded locking clip that automatically locks each time the window closes.
      8. Manual Security Lock: Thumb turn hook lock.

\*\* NOTE TO SPECIFIER \*\* Select the optional security bar set if required. Delete if not required.

* + - 1. Security Bar Set: Additional security bar for additional after hours security.
      2. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      3. Handle: Black Delrin handle. Stainless steel handle mounting bracket.
      4. Lock: Self-latching Adams Rite MS1847 Series with Adams Rite 1000 Series turn.
      5. Glazing:

\*\* NOTE TO SPECIFIER \*\* Select glass as required. Delete the paragraphs not required.

* + - * 1. 1/4-inch (6 mm) clear tempered glass, ASTM C 1048.
        2. 1/4-inch (6 mm) tinted tempered glass, ASTM C 1048.
      1. Silicone Glazing Sealant: Dow Corning 999A:

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required. Additional anodized aluminum finishes requiring additional fabrication time are available.

* + - 1. Finish:
         1. Anodized Aluminum: Color dark bronze.
         2. Anodized Aluminum: Color clear aluminum.
         3. Powder Coat Finish: Tiger Drylac RAL#.Color as selected by the Architect from the manufacturer's stock colors.

\*\* NOTE TO SPECIFIER \*\* Specify one of the following electrical requirements for fully automatic door operation.

* + - 1. Electrical:
         1. A separate 115 Volt, 60 Hz. 15 Amp branch circuit.
         2. A separate 220 Volt, 60 Hz. 8 Amp branch circuit.
    1. Bump-Out Pass-Thru Windows: Ready Access Bump-Out 602 Window.
       1. Approvals:
          1. Miami-Dade County Product Approval N.O.A. No. 16-0307.06, Large and Small Missile: 11/16-inch Secur-Temp 4 Glazing, ASTM C 1036
          2. Miami-Dade County Product Approval N.O.A. No. 16-0307-07, Non-Impact: 3/4-inch insulated glass, ASTM E 773 and E 774.
       2. Window Dimensions:

\*\* NOTE TO SPECIFIER \*\* Select the size required. Delete those not required.

* + - * 1. 47-1/2 inches wide by 60 inches high by 4-1/2 inches deep.
        2. 47-1/2 inches wide by 52-3/4 inches high by 4-1/2 inches deep.
        3. \_\_\_\_\_\_ inches wide by \_\_\_\_\_\_ inches high by \_\_\_\_\_\_ inches deep.
      1. Service Panel Operation:

\*\* NOTE TO SPECIFIER \*\* Select the operator required. Delete those not required.

* + - * 1. Manual open/self closing.
        2. Manual Open/Electronic Release.
        3. Fully automatic electric.
      1. Opening Direction: Customer View-Outside

\*\* NOTE TO SPECIFIER \*\* Select the opening direction required. Delete those not required.

* + - * 1. Right to left.
        2. Left to right.
      1. Security Transaction Drawer: Stainless steel, 18-5/16 inches wide by 9-1/2 inches high by 14-9/32 inches deep transfer area, money clip, change cup. Automatically locks when closed. Manual latch lock. UL-rated Level 1 with UL-rated Level 3 bullet-resistant insert in faceplate.
      2. Security Cash Transaction Drawer: Stainless steel, 12 inches wide by 16-3/4 inches long by 3-3/4 inches high, money clip. Manual latch lock. UL-rated Level 3 bullet-resistant insert in faceplate.
      3. Speaker System: AIPHONE Model LEM-1, prewired.
      4. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
      5. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      6. Galvanized Steel Sheet: ASTM A 653, G90.
      7. Security:

\*\* NOTE TO SPECIFIER \*\* Delect self latch or deadbolt as required. Delete the optional security bar set if not required.

* + - * 1. Self-latches each time panel closes. Self-latching Adams Rite MS1847 Series with Adams Rite 1000 Series turn.
        2. Deadbolt lock. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumb turn.
        3. Deadbolt lock. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumb turn and keyed mortise cylinder.
        4. Security bar set.
      1. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      2. Handle: Stainless steel.
      3. Glazing:
         1. 3/4-inch insulated glass, ASTM E 773 and E 774.
         2. 11/16 inch Secur-Tem 4 ASTM C 1036-91 Smash and Grab
         3. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F 1233.
         4. SP 175 3/4 inch Secur-Tem and Poly ASTM C 1036-91 Level 1
         5. 3/4 inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
      4. Silicone Glazing Sealant: Dow Corning 999A, aluminum.
      5. Electrical: UL Listed: E186519, 35HL.

\*\* NOTE TO SPECIFIER \*\* Select the service required. Delete the one not required.

* + - * 1. 115 V, 60 Hz, with 15 A branch circuit.
        2. 220 V, 60 Hz, with 8 A branch circuit.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - 1. Finish:
         1. Anodized Aluminum Color bronze.
         2. Anodized Aluminum Color aluminum.
         3. Powder Coat Finish Color as selected by the Architect from the manufacturer's stock colors.
    1. Bump-Out Pass-Thru Windows: Ready Access Bump-Out 604 Window.
       1. Approvals:
          1. Miami-Dade County Product Approval N.O.A. No. 16-0307.06, Large and Small Missile: 11/16-inch Secur-Temp 4 Glazing, ASTM C 1036
          2. Miami-Dade County Product Approval N.O.A. No. 16-0307-07, Non-Impact: 3/4-inch insulated glass, ASTM E 773 and E 774.
       2. Window Dimensions:

\*\* NOTE TO SPECIFIER \*\* Select the size required. Delete those not required.

* + - * 1. 47-1/2 inches wide by 60-1/2 inches high by 17 inches deep.
        2. 47-1/2 inches wide by 52-3/4 inches high by 17 inches deep.
        3. \_\_\_\_\_\_ inches wide by \_\_\_\_\_\_ inches high by \_\_\_\_\_\_ inches deep.
      1. Service Panel: None/Fixed
      2. Security Transaction Drawer: Stainless steel, 18-5/16 inches wide by 9-1/2 inches high by 14-9/32 inches deep transfer area, money clip, change cup. Automatically locks when closed. Manual latch lock. UL-rated Level 1 with UL-rated Level 3 bullet-resistant insert in faceplate.
      3. Security Cash Transaction Drawer: Stainless steel, 12 inches wide by 16-3/4 inches long by 3-3/4 inches high, money clip. Manual latch lock. UL-rated Level 3 bullet-resistant insert in faceplate.
      4. Speaker System: AIPHONE Model LEM-1, prewired.
      5. Interior Counter: Stainless steel, ASTM A 240, Type 304, No.4 finish.
      6. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
      7. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
      8. Galvanized Steel Sheet: ASTM A 653, G90.
      9. Security:

\*\* NOTE TO SPECIFIER \*\* Delect self latch or deadbolt as required. Delete the optional security bar set if not required.

* + - * 1. Self-latches each time panel closes. Self-latching Adams Rite MS1847 Series with Adams Rite 1000 Series turn.
        2. Deadbolt lock. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumb turn.
        3. Deadbolt lock. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumb turn and keyed mortise cylinder.
        4. Security bar set.
      1. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
      2. Glazing:
         1. 3/4-inch insulated glass, ASTM E 773 and E 774.
         2. 11/16 inch Secur-Tem 4 ASTM C 1036-91 Smash and Grab
         3. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F 1233.
         4. SP 175 3/4 inch Secur-Tem and Poly ASTM C 1036-91 Level 1
         5. 3/4 inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
      3. Silicone Glazing Sealant: Dow Corning 999A, aluminum.
      4. Electrical: UL Listed: E186519, 35HL.

\*\* NOTE TO SPECIFIER \*\* Select the service required. Delete the one not required.

* + - * 1. 115 V, 60 Hz, with 15 A branch circuit.
        2. 220 V, 60 Hz, with 8 A branch circuit.

\*\* NOTE TO SPECIFIER \*\* Select the finish and color required. Delete those not required.

* + - 1. Finish:
         1. Anodized Aluminum Color bronze.
         2. Anodized Aluminum Color aluminum.
         3. Powder Coat Finish Color as selected by the Architect from the manufacturer's stock colors.
         4. 2.4FABRICATION
    1. Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
    2. Accurately fit and secure joints and corners. Make joints flush, hairline and weatherproof.
    3. Prepare components to receive anchor devices. Fabricate anchors.
    4. Arrange fasteners and attachments to ensure concealment from view.
    5. Prepare components with internal reinforcement for operating hardware as required.
    6. Permit internal drainage weep holes and channels to migrate moisture to exterior. Furnish internal drainage of glazing spaces to exterior through weep holes.
    7. Factory glaze window units.
  1. ALUMINUM FINISH
     1. Anodized:
        1. Statuary Bronze, AA-M10-C12-C22-A44, ASTM B 580.
        2. Clear, AA-M10-C12-C22-A31, ASTM B 680.
     2. Powder Coat Painted:
        1. Paint: Tiger Drylac Series 49.
        2. System: Heated phosphate-cleaned, electrostatic powder-coated, infrared oven-cured.

1. EXECUTION
   1. EXAMINATION
      1. Examine openings and areas to receive pass-thru windows for substrate conditions that would adversely affect installation or subsequent use.
      2. If openings or substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
      3. Ensure openings to receive pass-thru windows are plumb, level, square, accurately aligned, correctly located, and in tolerance.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions.
      2. Install pass-thru windows plumb, level, square, true to line, and without warp or rack. Maintain dimensional tolerances and alignment with adjacent Work.
      3. Install thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
      4. Install pass-thru window components weathertight.
      5. Anchor pass-thru windows securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
      6. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.
      7. Coordinate installation of related sheet metal flashing as specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
      8. Install perimeter joint sealants as specified in Section 07 91 23 - Backer Rods.

\*\* NOTE TO SPECIFIER \*\* Delete the following sentence if electrical power is not required to operate the pass-thru windows.

* + 1. H.Electrical: Install electrical power as specified in Section 26 05 00 - Common Work Results for Electrical.
    2. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
    3. Remove and replace damaged components that cannot be successfully repaired as determined by Architect.
  1. ADJUSTING
     1. Adjust doors to be weathertight in closed position.
     2. Adjust doors and operating hardware to function properly and for smooth operation without binding.
  2. CLEANING
     1. Remove protective material from factory finished aluminum surfaces.
     2. Clean pass-thru windows promptly after installation in accordance with manufacturer's instructions.
     3. Remove excess joint sealant in accordance with sealant manufacturer's instructions.
     4. Do not use harsh cleaning materials or methods that would damage glazing or finish.
  3. PROTECTION
     1. Protect installed products until completion of project.
     2. Protect installed pass-thru windows to ensure that, except for normal weathering, pass-thru windows will be without damage or deterioration at time of substantial completion.
     3. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION