

CASA DEL SOL CONDOMINIUM ASSOCIATION

Policy Regarding the Replacement of Windows and Sliding Glass Doors

WHEREAS, Casa Del Sol Condominium Association (hereinafter “Casa Del Sol” or “Association”) was established by virtue of that Master Deed dated September 22, 1977, and recorded among the Land Records of Worcester County, Maryland, in Liber 599, folio 39, et seq. as the same may have been amended;

WHEREAS, Article V, Section 1 of Casa Del Sol’s By-Laws states that the affairs of the Association are governed by the Board of Directors;

WHEREAS, Article V, Section 3 of the Association’s By-Laws provide, in pertinent part, that the Board of Directors is responsible for providing for the care, upkeep and maintenance of the Condominium complex and its general and limited common elements;

WHEREAS, pursuant to Section 11-115 of the Maryland Condominium Act, no unit owner may alter, make additions to, or change the appearance of the common elements, or the exterior appearance of a unit or any other portion of the condominium, without permission of the council of unit owners;

WHEREAS, Article VIII, Section 7 of the Association’s By-Laws prohibits unit owners from making any changes to, or otherwise altering (including any alteration in color) in any manner whatsoever, the exterior of any condominium unit or any of the common elements within the condominium complex until the complete plans and specifications showing the location, nature, shape, height, materials, color, type of construction and/or any other proposed form of change (including, without limitation, any other information specified by the Board of Directors) have been submitted to and approved in writing by the Association’s Board of Directors;

WHEREAS, the Association’s master insurance policy provides insurance coverage for both the Association’s common elements and the condominium units as they were originally turned over by the Association’s developer;

WHEREAS, one cause for the increase in the annual premiums for condominium associations is the number of claims filed due to water damage in the individual condominium units and to the common elements, and some such claims are due to the installation of inferior replacement windows and sliding glass doors in condominium units and/or the improper installation of replacement windows and sliding glass doors;

WHEREAS, The Association’s Board of Directors engaged the services of an architectural and engineering design firm to determine both the specifications for the appropriate replacement windows and sliding glass doors to be installed in the condominium units and installation instructions for the installation of the specified windows and sliding glass doors

being installed in condominium units; and

WHEREAS, it is Association's best interests to adopt a policy setting forth both the type and manufacturer of the windows and sliding glass door to be installed by the unit owners of Casa Del Sol and instructions for the proper installation of said windows and sliding glass door;

NOW, THEREFORE, it is RESOLVED by the Council of Unit Owners of Casa Del Sol Condominium that the following guidelines for the installation of windows and sliding glass doors in the condominium units:

1. All replacement windows and sliding glass doors installed in the condominium units at Casa Del Sol Condominium shall meet the specifications set forth in the "Slider Door & window Replacement Specifications," made by George, Miles & Buhr, LLC ("GMB"), dated October 2023, and given GMB File No. 230035, as to the type, manufacturer and installation methods for use the installation of said windows and sliding glass doors.

2. All contractors engaged by unit owners for the installation of windows and sliding glass doors in their units shall be property licensed and insured, and written proof of same shall be provided to the Association's Board of Directors prior to the start of any work.

3. No work shall commence in the units until the written consent for same is granted by the Association's Board of Directors.

4. The Association's Board of Directors shall from time to time publish a list of approved contractors who are authorized to install windows and sliding glass doors in the units at Casa Del Sol Condominium. Unit owners are encouraged to engage the services of one of the approved contractors.

5. Unit owners may choose to engage the services of a licensed and insured contractor that is not on the list of approved contractors published by the Board of Directors. However, in the event that a contractor other than that approved by the Board of Directors is engaged to install widows and sliding glass doors, unit owners must also engage the services of GMB to inspect the work of the non-approved contractor to ensure that said windows and sliding glass doors are properly installed, and the cost of all inspections by GMB shall be borne by the unit owner.



SLIDER DOOR & WINDOW REPLACEMENT SPECIFICATIONS



CASA DEL SOL CONDOMINIUM
614-680, 700-736 & 770A-770D 94TH STREET
OCEAN CITY, MARYLAND

OCTOBER 2023

GMB FILE NO. 230035

GMB

GEORGE, MILES & BUHR, LLC

ARCHITECTS/ENGINEERS

206 WEST MAIN STREET
SALISBURY, MD 21801
410.742.3115

SALISBURY/BALTIMORE/SEAFORD



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DIVISION 8 – DOORS AND WINDOWS

SECTION 08650

POLYVINYL CHLORIDE (PVC) DOUBLE HUNG & PICTURE WINDOWS

Part 1 – GENERAL

1.01 APPLICABLE PUBLICATIONS

- A. Code of Federal Regulations (CFR)
 - 1. 16 CFR 1201 Consumer Product Safety Commission. Safety Standard for Architectural Glazing Materials
- B. American Architectural Manufacturers Association(AAMA), National Fenestration Rating Council (NFRC), American Society for Testing and Materials (ASTM)
 - 1. North American Fenestration Standard/Specification for windows, doors, and skylights (AAMA/WDMA/CSA 101/I.S.2/A440)
 - a. Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen (ASTM E 283)
 - b. Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Differences (ASTM E 330)
 - c. Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Differences (ASTM E 547)
 - d. Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units (ASTM E 774)
 - e. Standard Test Method for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact (ASTM F 588)
 - 2. Voluntary Specifications for Pile Weatherstripping and Replaceable Fenestration Weather seals (AAMA 701/702)
 - 3. Voluntary Specification for Sash Balances (AAMA 902)
 - 4. Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections (AAMA 1503)
 - 5. Procedure for Determining Fenestration Product U-Factors (NFRC 100)
 - 6. Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (NFRC 200) AAMA Certification Program for Vinyl Window Manufacturers

1.02 SUBMITTALS

- A. Certified Test Reports: Submit for air infiltration, water resistance, and uniform loading.
- B. Catalog Data: Shall describe each type of window, hardware, fastener, accessory, operator, screen, and finish.
- C. Certification of Compliance: Submit certificates that identical windows have been successfully tested and meet the requirements specified herein for air infiltration and water penetration.
- D. Selection Samples: Select from Manufacturer's full range of colors.

1.03 DELIVERY AND STORAGE

- A. Deliver windows to project site in an undamaged condition. Use care in handling and hoisting during transportation and at the job site. Store windows and components out of contact with the ground, under cover, protected from weather, so as to prevent damage to the windows. Do not use unvented plastic or canvas shelters. Provide ¼" space between units to promote air circulation. Damaged windows shall be repaired to an "as new" condition or replaced as approved.
- B. PROTECTION: Finished surfaces shall be protected during shipping and handling using manufacturers' standard method.
- C. CERTIFICATION: Window units shall be tested and certified for performance with the above referenced test methods. All window units shall be labeled certifying conformance with AAMA/WDMA/CSA 101/I.S.2/A440, NFRC 100, NFRC 200, and Energy Star, Program Requirements for Residential Windows, Doors and Skylights.
- D. CERTIFIED FABRICATOR: Windows shall be fabricated by an AAMA Certified Fabricator.
- E. WARRANTIES:
 - 1. Windows shall be fully warranted against any defects in material or workmanship under normal use and service for a period of 20 years from date of acceptance on commercial projects and lifetime limited warranty to original homeowner on residential projects, 1 year factory labor included.
 - 2. Insulated Glass Units shall be fully warranted against visual obstruction resulting from film formation or moisture collection between the interior glass surface, excluding breakage, for a period of 20 years from date of acceptance on commercial projects and lifetime warranty to original homeowner on residential projects, 1 year factory labor included.
 - 3. Contractor shall provide a written service warranty that clearly spells out how requests for service shall be handled, by whom, under whose

responsibility and shall include the time frame for handling these service requests. A labor warranty providing service on the windows shall cover a period of not less than 5 years and shall be provided in writing. A copy of the product and labor warranty must accompany other applicable warranties and be presented with the bid.

1.04 PERFORMANCE REQUIREMENTS

- A. General—Provide vinyl windows capable of complying with performance requirements indicated, based on testing manufacturer's windows that are representative of those specified.
1. Test for air infiltration shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440. On a test, the air rate shall not be greater than 0.3 cfm per square foot of sash area.
 2. Test for water infiltration shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440. Double hung window shall be tested to 7.52 psf to at least 15% of DP rating. Picture window shall be tested to 12.12 psf to at least 15% of DP rating.
 3. Uniform Load Structural Test, with the window closed and locked, shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440 with a DP50/PG50 rating.
 4. Test for Thermal Performance shall be in accordance with NFRC 100 and NFRC 200.e)
 5. Test for Condensation Resistance Factor (CRF) shall be in accordance with AMMA 1503.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Viwinco S-Series Double Hung Window as manufactured by Viwinco, Inc., located at 851 Hemlock Road, Morgantown, PA 19543-0499. Phone (610) 286-8884.www.viwinco.com
1. Materials—Windows shall conform to the requirements of specifications listed above. Provide doors of combinations, types and sizes indicated or specified.
 - a. Frame
 1. Extruded PVC components, produced from commercial quality virgin PVC (unplasticized polyvinyl chloride), conforms to AAMA 303, Voluntary Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profiles, from sections in one piece, straight, true and smooth. Provide multi-chambered PVC extruded frame in accordance with the manufacturer's standard practice. Make fusion welded frame

joints strong enough to develop full strength of members, with an exterior wall thickness of .070". Jamb depth will measure 3.25". Head and jamb members shall have accessory grooves, integral screen stops, and beveled exterior.

2. Sill-Exterior wall thickness is .080" sloped 5 degrees with a step-down screen track. The double wall sill dam is fully welded to the jamb with a 0.945" height. The sill has a replaceable, snap in double wall sill dam leg with one contact point of weather-strip and is mortised 1/4" into jambs. Sill dam leg is installed with a bedding bead of silicone sealant to create a 1.440" total height.
- b. Sash—Make interior horizontal top surfaces of both meeting rails flat and in the same plane. Meeting rails have an integral interlock with two contact points of pile weather-strip provided. Sash shall have fusion welded miter corners with an exterior wall thickness of .070. Upper and lower sashes shall have equal glass sight lines. Bottom sash shall have one continuous, integral lift rail. All sash units shall be triple weather-stripped where the sash meet the jamb using silicone treated pile with a mylar center fin bonded to backing. There shall be two contact points of weather-stripping where the lower sash comes into contact with the master frame sill. The one at the highest point of the sill will be silicone treated pile and the second is co-extruded flexible sill bulb which is designed to snap in place and wrap underneath the sash. Sash shall be reinforced on all sides with aluminum extrusions in chambered profiles.
- c. Glass—Factory glazed 15/16" insulating glass conforming to ASTM E2190, Standard Specification for Insulating Glass Unit Performance and Evaluation. Sputter-coated Low-E double strength (3 mm) tempered glass with Ultra Intercept Stainless Steel Spacer and argon gas. Glazing shall be exterior glazed against a bead of silicone, secured with PVC mitered glazing beads and designed to maintain a watertight seal between glass and sash frame.
- d. Hardware
1. Balance Mechanism: Provide stainless steel 3/4" thick constant force coil balance springs for sash. Balances shall also have an interlocking pivot bar, for integral frame alignment with sash for keeping window frames straight and true during installation.
 2. The upper sash has two night vents standard.
 3. Tilt Latches: Both upper and lower sashes shall have two low profile tilt latches that shall be integrally mortised into the top rail for a clean appearance.
- e. Screen
1. Screen Frame: Provide same quality and color finish as the window units. Frames shall have extruded aluminum

sections with reinforced corners and built-in pull rail for ease of operation. Hardware, attachment devices, and accessories shall be manufacturer's standard and of same quality, material, and finish as hardware of the window unit.

2. Insect Screening: ASTM D 3656, Standard Specification for Insect Screening and Louver Cloth Woven from Vinyl Coated Glass Yarn, (plastic coated or impregnated fibrous glass yarn) of standard color as approved. Better Vue fabric, .009 by .011 diameters, 18 x 18 woven mesh count. Provides for 68-69% light transmission.
 - f. Caulking and Sealing: As specified or recommended by window manufacturer.
 - g. Foam: To achieve R4 and R5 U-factors for certain configurations, manufacturing sprays a two part polyurethane foam into specific cavities in the frame and sash lines for processing that same day.
2. Fabrication
- a. Weathering Surfaces: All frame members shall be multi-chambered PVC extrusions utilizing double wall design without the need for reinforcement. Frame corners shall be fusion welded. Sash members shall be multi-chambered PVC extrusions utilizing double wall design at all glazing locations. Horizontal sash members shall be mitered and fusion welded to vertical sash members.
 - b. Drips and Weep Holes: Provided as required to return water to the outside.
 - c. Glazing Thickness: Design glazed doors and rabbets suitable for glass thickness specified above.
 - d. Fasteners: All fasteners are to be stainless steel type, corrosion resistant. Use flathead, cross-recessed type, exposed head screws with standard threads on windows, trim, and accessories. Screw heads shall finish flush with adjoining surfaces. Self-tapping sheet metal screws are not acceptable for material more than 1/16" in thickness. All sheet metal screw fasteners shall penetrate into a PVC screw boss, or screw raceway, or internal .062" wall thickness aluminum reinforcement to secure fastening and reduce pull out.
 - e. Provisions for Glazing: Design sash for inside double-glazing and for securing glass with manufacturer's standard glazing systems. Provide glazing channels of adequate size and depth to receive and properly support the glass and glazing accessories.
 - f. Factory Mulls: Factory Mulls: Factory mulls to be fully reinforced with 2 1/2" aluminum extrusions for a structurally rated mullion, and assembled utilizing interior and exterior "U" channels and proprietary sealant application patterns. Continuous PVC snap in head flashing to provide for proper shedding of water off the head frame.
 - g. Accessories: Provide windows complete with necessary hardware, fastenings, clips, fins, anchors, glazing beads, and other appurtenances necessary for complete installation and proper operation.

- h. Sill Nose: Co-extruded flex fin durometer weather-strip to provide a seal between the casing and the window frame without the use of surface applied caulking. The extrusion shall consist of multiple chambers with a 1-11/16" extruded nailing fin and 5/8" by 3/4" integral J channel. Exterior wall thickness shall be a minimum of .065". A color-matched end cap shall be installed at both ends.
- i. PVC Color Selection: Integral PVC color with UV inhibitors to reduce fading.
 - i. White PVC
- j. Weather-stripping: Provide for ventilating sections of all windows to insure a weather tight seal meeting the infiltration tests specified herein. Use easily replaceable factory applied weather-stripping of manufacturer's stock type, as specified above. For sliding surfaces, use silicone treated pile, with a mylar center fin bonded to a plastic-backing strip. Do not use neoprene or polyvinylchloride weather-stripping where they will be exposed to direct sunlight.
- k. Screens: Provide one insect screen for each operable ventilating unit. Design screens to fit closely around entire perimeter of each ventilator or opening, to be rewired, easily removable from outside of the building with no exposed fasteners. Provide all guides, stops, clips, bolts, and screws as necessary, for a secure and insect tight attachment to window.
- l. Screening: Install screening with weave parallel to frame and stretch sufficiently to present a smooth appearance. Conceal edges of screening in the spline channel.
- m. Screen Finish—Exposed surfaces of aluminum extrusions shall be thoroughly cleaned, primed and given a baked enamel finish in accordance with AAMA 603.8, Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum, with total dry thickness not less than 0.8mil. The finish color shall match the vinyl window.

B. Viwinco S-Series Picture Window as manufactured by Viwinco, Inc., located at 851 Hemlock Road, Morgantown, PA 19543-0499. Phone (610) 286-8884. www.viwinco.com

1. Materials – Windows shall conform to the requirements of specifications listed above. Provide windows of combinations, types and sizes indicated or specified.
 - a. Frame - Extruded PVC components, produced from commercial quality virgin PVC (unplasticized polyvinyl chloride), conforms to AAMA 303, Voluntary Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profiles, from sections in one piece, straight, true and smooth. Provide multi-chambered PVC extruded frame in accordance with the manufacturer's standard practice. Make fusion welded frame joints strong enough to develop full strength of members, with an exterior wall

thickness of .080". Head and jamb members shall have an integral 1 ¼" nailing flange and accessory grooves.

- b. Glass – Factory glazed 15/16" insulating glass conforming to ASTM E 2190, Standard Specification for Insulating Glass Unit Performance and Evaluation. Sputter-coated Low-E double strength (3mm) glass with Ultra Intercept Stainless Steel Spacer and argon gas.
 - c. Glazing: Insulated glass units secured to the frame using a silicone sealant and dual durometer glazing bead located toward the inside of the building.
 - d. Caulking and Sealing: As specified or recommended by window manufacturer.
 - e. Foam: To achieve R4 and R5 U-factors for certain configurations, manufacturing sprays a two part polyurethane foam into specific cavities in the frame and sash lineals for processing that same day.
2. Fabrication
- a. Weathering Surfaces: All frame members shall be multi-chambered PVC extrusions utilizing double wall design without the need for reinforcement. Frame corners shall be fusion welded.
 - b. Drips and Weep Holes: Provided as required to return water to the outside.
 - c. Glazing Thickness: Design glazed windows and rabbets suitable for glass thickness specified above.
 - d. Provisions for Glazing: Design frame for inside double-glazing and for securing glass with manufacturer's standard glazing systems. Provide glazing channels of adequate size and depth to receive and properly support the glass and glazing accessories.
 - e. Factory Mulls: Factory mulls to be fully reinforced with 2 ½" aluminum extrusions for a structurally rated mullion, and assembled utilizing interior and exterior "U" channels and proprietary sealant application patterns. Continuous PVC snap in head flashing to provide for proper shedding of water off the head frame. . Stainless Steel brackets shall be attached to the end points of the aluminum extrusions to be secured to the rough opening.
 - f. Accessories: Provide windows complete with necessary hardware, fastenings, clips, fins, anchors, glazing beads, and other appurtenances necessary for complete installation and proper operation.
 - g. Sill Nose: Co-extruded flex fin durometer weather-strip to provide a seal between the casing and the window frame without the use of surface applied caulking. The extrusion shall consist of multiple chambers with a 1-11/16" extruded nailing fin and 5/8" by ¾" integral J channel. Exterior wall thickness shall be a minimum of

- .065". A color-matched end cap shall be installed at both ends.
- h. Interior / Exterior Color Selection: Laminating films in accordance with RAL 716/1 and EN 513-2 resist abrasion and weather. White PVC with Bronze Laminate Exterior.
 - i. Weather-stripping: Provide for ventilating sections of all windows to insure a weather tight seal meeting the infiltration tests specified herein. Use easily replaceable factory applied weather-stripping of manufacturer's stock type, as specified above. For sliding surfaces, use silicone treated pile, with a mylar center fin bonded to a plastic-backing strip. Do not use neoprene or polyvinylchloride weather-stripping where they will be exposed to direct sunlight.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Have installer verify that project conditions are acceptable before beginning installation of products; verify that rough openings are as indicated and are correct sizes for clearance space specified in manufacturer's instructions.
- B. Correct unacceptable conditions before proceeding with installation.

3.02 INSTALLATION

- A. Method of Installation: Install in strict accordance with the window manufacturer's printed instructions and details, except as specified otherwise herein. Install windows without forcing into prepared window openings. Insulate perimeter of window frame with acceptable approved insulation material, as recommended by window manufacturer. Set windows at proper elevation, location, and reveal; plumb, square, level, and in alignment; and brace, strut, and stay properly to prevent distortion and misalignment. Protect ventilators and operating parts against accumulation of dirt, and building materials by keeping ventilators tightly closed and locked to frame. Bed screws in sill members, joints at mullions, contacts of windows with sills, built in fins, and sub-frames in approved sealant. Install windows in a manner that will prevent entrance of water. Provide sill angle flashed in sealant at windowsills where applicable.
- B. Anchors and Fasteners: Make ample provision for securing units to each other, and to adjoining construction.
- C. Adjustments after Installation: After installation of windows adjust all ventilators and hardware to operate smoothly and to provide weather tight sealing when ventilators are closed and locked. Lubricate hardware operating parts as necessary.
- D. Protection: Where surfaces are in contact with, or fastened to wood or dissimilar materials, the surface shall be protected from dissimilar materials as recommended by the manufacturer. Surfaces in contact with sealant after installation shall not be coated with any type of protective material.

3.03 CLEANING

- A. Clean interior and exterior of window units of mortar, plaster, paint spattering spots, sealants, and other foreign matter to present a neat clean appearance and to prevent fouling of weather-stripping surfaces and weather-stripping, and to prevent interference with the operation of hardware. Replace with new windows all stained, discolored, or abraded door that cannot be restored to their original condition.

END OF SECTION

DIVISION 8 – DOORS AND WINDOWS

SECTION 08651

POLYVINYL CHLORIDE (PVC) SLIDER DOORS

Part 1 – GENERAL

1.01 APPLICABLE PUBLICATIONS

- A. Code of Federal Regulations (CFR)
 - 1. 16 CFR 1201 Consumer Product Safety Commission. Safety Standard for Architectural Glazing Materials

- B. American Architectural Manufacturers Association (AAMA), National Fenestration Rating Council (NFRC), American Society for Testing and Materials (ASTM)
 - 1. North American Fenestration Standard/Specification for windows, doors, and skylights (AAMA/WDMA/CSA 101/I.S.2/A440)
 - a. Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen (ASTM E 283)
 - b. Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Differences (ASTM E 330)
 - c. Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Differences (ASTM E 547)
 - d. Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units (ASTM E 774)
 - e. Standard Test Method for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact (ASTM F 588)
 - 2. Voluntary Specifications for Pile Weatherstripping and Replaceable Fenestration Weather seals (AAMA 701/702)
 - 3. Voluntary Specification for Sash Balances (AAMA 902)
 - 4. Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections (AAMA 1503)
 - 5. Procedure for Determining Fenestration Product U-Factors (NFRC 100)
 - 6. Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (NFRC 200) AAMA Certification Program for Vinyl Window Manufacturers

1.02 SUBMITTALS

- A. Certified Test Reports: Submit for air infiltration, water resistance, and uniform loading.
- B. Catalog Data: Shall describe each type of door, hardware, fastener, accessory, operator, screen, and finish.
- C. Certification of Compliance: Submit certificates that identical doors have been successfully tested and meet the requirements specified herein for air infiltration and water penetration.
- D. Selection Samples: Select from Manufacturer's full range of colors.

1.03 DELIVERY AND STORAGE

- A. Deliver doors to project site in an undamaged condition. Use care in handling and hoisting during transportation and at the job site. Store doors and components out of contact with the ground, under cover, protected from weather, so as to prevent damage to the doors. Do not use unvented plastic or canvas shelters. Provide ¼" space between units to promote air circulation. Damaged doors shall be repaired to an "as new" condition or replaced as approved.
- B. PROTECTION: Finished surfaces shall be protected during shipping and handling using manufacturers' standard method.
- C. CERTIFICATION: Door units shall be tested and certified for performance with the above referenced test methods. All door units shall be labeled certifying conformance with AAMA/WDMA/CSA 101/I.S.2/A440, NFRC 100, NFRC 200, and Energy Star, Program Requirements for Residential Windows, Doors and Skylights.
- D. CERTIFIED FABRICATOR: Doors shall be fabricated by an AAMA Certified Fabricator.
- E. WARRANTIES:
 - 1. Doors shall be fully warranted against any defects in material or workmanship under normal use and service for a period of 20 years from date of acceptance on commercial projects and lifetime limited warranty to original homeowner on residential projects, 1 year factory labor included.
 - 2. Insulated Glass Units shall be fully warranted against visual obstruction resulting from film formation or moisture collection between the interior glass surface, excluding breakage, for a period of 20 years from date of acceptance on commercial projects and lifetime warranty to original homeowner on residential projects, 1 year factory labor included.
 - 3. Contractor shall provide a written service warranty that clearly spells out how requests for service shall be handled, by whom, under whose responsibility and shall include the time frame for handling these service

requests. A labor warranty providing service on the doors shall cover a period of not less than 5 years and shall be provided in writing. A copy of the product and labor warranty must accompany other applicable warranties and be presented with the bid.

1.04 PERFORMANCE REQUIREMENTS

- A. General—Provide vinyl doors capable of complying with performance requirements indicated, based on testing manufacturer's doors that are representative of those specified.
1. Test for air infiltration shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440. On a test, the air rate shall not be greater than 0.3 cfm per square foot of sash area.
 2. Test for water infiltration shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440. Test to 7.50 psf to at least 15% of the DP rating.
 3. Uniform Load Structural Test, with the door closed and locked, shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440.
 4. Test for Thermal Performance shall be in accordance with NFRC 100 and NFRC 200.e)
 5. Test for Condensation Resistance Factor (CRF) shall be in accordance with AMMA 1503.
 6. Test for Condensation Resistance Factor (CRF) shall be in accordance with AMMA 1503-98.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. North (Canal) Side Slider Doors - Viwinco S-Series Patio Door as manufactured by Viwinco, Inc., located at 851 Hemlock Road, Morgantown, PA 19543-0499. Phone (610) 286-8884. www.viwinco.com
- B. South (Street) Side Slider Doors – MP Doors located at 8989 N Loop E Fwy, Houston, TX 77029.
1. Materials—Doors shall conform to the requirements of specifications listed above. Provide doors of combinations, types and sizes indicated or specified.
 - a. Frame
 1. Extruded PVC components, produced from commercial quality virgin PVC (unplasticized polyvinyl chloride), conforms to AAMA 303, Voluntary Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profiles, from sections in one piece, straight, true and smooth. Provide multi-chambered PVC extruded frame in accordance with the manufacturer's standard practice. Make fusion welded frame joints strong

enough to develop full strength of members, with an exterior wall thickness of .090". Head and jamb members shall have an integral 1 ¼" nailing flange, accessory grooves, and an integral screen track. The jamb members shall be welded to the head of the frame and mechanically fastened to the sill.

2. Sill-Exterior wall thickness is .090" sloped 2 degrees with a thermal break. An aluminum threshold shall be snapped into the sill where the operating panel is located. The operating panel shall ride in a channel with a monorail system with a stainless-steel cover. The channel shall measure 1.208" tall with two points of contact of weather-strip silicone treated pile with a mylar center fin bonded to the back.
 - b. Sash—Meeting rails shall have integral interlock with two contact points of pile weather-stripping provided. Sash shall have fusion welded miter corners with an external wall thickness of .080. Sash rails and stiles each measure 4½". The sash stiles and lower rail shall be reinforced. All sashes shall have equal glass sight lines.
 - c. Glass—Factory glazed 1" insulating glass conforming to ASTM E2190, Standard Specification for Insulating Glass Unit Performance and Evaluation. Sputter-coated Low-E double strength (3 mm) tempered glass with Ultra Intercept Stainless Steel Spacer and argon gas. Glazing shall be interior glazed against a bead of silicone, secured with PVC mitered glazing beads and designed to maintain a watertight seal between glass and sash frame.
 - d. Hardware
 1. Locking Devices: Interlock dual point locking handle with an adjustable keeper.
 2. Adjustable Stainless-Steel Rollers.
 - e. Screen
 1. Screen Frame: Provide same quality and color finish as the door units. Frames shall have extruded aluminum sections with reinforced corners. Hardware, attachment devices, and accessories shall be manufacturer's standard and of same quality, material, and finish as hardware of the door unit.
 2. Insect Screening: ASTM D 3656, Standard Specification for Insect Screening and Louver Cloth Woven from Vinyl Coated Glass Yarn, (plastic coated or impregnated fibrous glass yarn) of standard color as approved. Better Vue fabric, .009 by .011 diameters, 18 x 18 woven mesh count. Provides for 68-69% light transmission.
 - f. Caulking and Sealing: As specified or recommended by window manufacturer.
2. Fabrication
 - a. Weathering Surfaces: All frame members shall be multi-chambered PVC extrusions utilizing double wall design. Frame corners shall be fusion welded at the head and mechanically fastened at the sill. Sash members

shall be multi-chambered PVC extrusions utilizing double wall design at all glazing locations. Horizontal sash members shall be mitered and fusion welded to vertical sash members.

- b. Drips and Weep Holes: Provided as required to return water to the outside.
- c. Glazing Thickness: Design glazed doors and rabbets suitable for glass thickness specified above.
- d. Fasteners: All fasteners are to be stainless steel type, corrosion resistant. Use flathead, cross-recessed type, exposed head screws with standard threads on windows, trim, and accessories. Screw heads shall finish flush with adjoining surfaces. Self-tapping sheet metal screws are not acceptable for material more than 1/16" in thickness. All sheet metal screw fasteners shall penetrate into a PVC screw boss, or screw raceway, or internal .062" wall thickness aluminum reinforcement to secure fastening and reduce pull out.
- e. Provisions for Glazing: Design sash for inside double-glazing and for securing glass with manufacturer's standard glazing systems. Provide glazing channels of adequate size and depth to receive and properly support the glass and glazing accessories.
- f. Factory Mulls: Factory Mulls: Factory mulls to be fully reinforced with 1"x3" hollow aluminum extrusions fabricated with tab extensions to be secured to the rough opening.
- g. Accessories: Provide doors complete with necessary hardware, fastenings, clips, fins, anchors, glazing beads, and other appurtenances necessary for complete installation and proper operation.
- h. Sill Nose: Co-extruded flex fin durometer weather-strip to provide a seal between the casing and the window frame without the use of surface applied caulking. The extrusion shall consist of multiple chambers with a 1-11/16" extruded nailing fin and 5/8" by 3/4" integral J channel. Exterior wall thickness shall be a minimum of .065". A color-matched end cap shall be installed at both ends.
- i. PVC Color Selection: Integral PVC color with UV inhibitors to reduce fading.
 - i. North (Canal) Side - Bronze PVC
 - ii. South (Street) Side - White PVC
- j. Weather-stripping: Provide for ventilating sections of all doors to insure a weather tight seal meeting the infiltration tests specified herein. Use easily replaceable factory applied weather-stripping of manufacturer's stock type, as specified above. For sliding surfaces, use silicone treated pile, with a mylar center fin bonded to a plastic-backing strip. Do not use neoprene or polyvinylchloride weather-stripping where they will be exposed to direct sunlight.
- k. Screens: Provide one insect screen for each operable ventilating unit. Design screens to fit closely around entire perimeter of each ventilator or opening, to be rewired, easily removable from outside of the building with no exposed fasteners. Provide all guides, stops, clips, bolts, and screws

as necessary, for a secure and insect tight attachment to door.

- I. Screening: Install screening with weave parallel to frame and stretch sufficiently to present a smooth appearance. Conceal edges of screening in the spline channel.
- m. Screen Finish—Exposed surfaces of aluminum extrusions shall be thoroughly cleaned, primed and given a baked enamel finish in accordance with AAMA 603.8, Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum, with total dry thickness not less than 0.8mil. The finish color shall match the vinyl window.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Have installer verify that project conditions are acceptable before beginning installation of products; verify that rough openings are as indicated and are correct sizes for clearance space specified in manufacturer's instructions.
- B. Correct unacceptable conditions before proceeding with installation.
 1. Installation
 - a. Method of Installation: Install in strict accordance with the door manufacturer's printed instructions and details, except as specified otherwise herein. Install doors without forcing into prepared door openings. Insulate perimeter of the doorframe with acceptable approved insulation material, as recommended by door manufacturer. Set doors at proper elevation, location, and reveal; plumb, square, level, and in alignment; and brace, strut, and stay properly to prevent distortion and misalignment. Protect ventilators and operating parts against accumulation of dirt and building materials by keeping ventilators tightly closed and locked to frame. Bed screws in sill members, joints at mullions, contacts of door with sills, built in fins, and sub-frames in approved sealant. Install doors in a manner that will prevent entrance of water. Provide panning system flashed in sealant at doors where applicable.
 - b. Anchors and Fasteners: Make ample provision for securing units to each other, and to adjoining construction.
 - c. Adjustments after Installation: After installation of doors adjust all ventilators and hardware to operate smoothly and to provide weather tight sealing when ventilators are closed and locked. Lubricate hardware operating parts as necessary.
 - d. Protection: Where surfaces are in contact with, or fastened to wood or dissimilar materials, the surface shall be protected from dissimilar materials as recommended by the manufacturer. Surfaces in contact with sealant after installation shall not be coated with any type of protective material.
 - e. Cleaning: Clean interior and exterior of door units of mortar, plaster, paint spattering spots, sealants, and other foreign matter to present a neat clean appearance and to prevent fouling of weather-stripping surfaces and weather-stripping, and to prevent interference with the operation of hardware.

Replace with new doors all stained, discolored, or abraded door that cannot be restored to their original condition.

END OF SECTION

DIVISION 8 – DOORS AND WINDOWS

SECTION 08652

POLYVINYL CHLORIDE (PVC) SLIDER WINDOWS

Part 1 – GENERAL

1.01 APPLICABLE PUBLICATIONS

- A. Code of Federal Regulations (CFR)
 - 1. 16 CFR 1201 Consumer Product Safety Commission. Safety Standard for Architectural Glazing Materials

- B. American Architectural Manufacturers Association(AAMA), National Fenestration Rating Council (NFRC), American Society for Testing and Materials (ASTM)
 - 1. North American Fenestration Standard/Specification for windows, doors, and skylights (AAMA/WDMA/CSA 101/I.S.2/A440)
 - a. Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen (ASTM E 283)
 - b. Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Differences (ASTM E 330)
 - c. Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Differences (ASTM E 547)
 - d. Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units (ASTM E 774)
 - e. Standard Test Method for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact (ASTM F 588)
 - 2. Voluntary Specifications for Pile Weatherstripping and Replaceable Fenestration Weather seals (AAMA 701/702)
 - 3. Voluntary Specification for Sash Balances (AAMA 902)
 - 4. Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections (AAMA 1503)
 - 5. Procedure for Determining Fenestration Product U-Factors (NFRC 100)
 - 6. Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (NFRC 200) AAMA Certification Program for Vinyl Window Manufacturers

1.02 SUBMITTALS

- A. Certified Test Reports: Submit for air infiltration, water resistance, and uniform loading.
- B. Catalog Data: Shall describe each type of window, hardware, fastener, accessory, operator, screen, and finish.
- C. Certification of Compliance: Submit certificates that identical windpws have been successfully tested and meet the requirements specified herein for air infiltration and water penetration.
- D. Selection Samples: Select from Manufacturer's full range of colors.

1.03 DELIVERY AND STORAGE

- A. Deliver windows to project site in an undamaged condition. Use care in handling and hoisting during transportation and at the job site. Store windows and components out of contact with the ground, under cover, protected from weather, so as to prevent damage to the windows. Do not use unvented plastic or canvas shelters. Provide ¼" space between units to promote air circulation. Damaged windows shall be repaired to an "as new" condition or replaced as approved.
- B. PROTECTION: Finished surfaces shall be protected during shipping and handling using manufacturers' standard method.
- C. CERTIFICATION: Window units shall be tested and certified for performance with the above referenced test methods. All window units shall be labeled certifying conformance with AAMA/WDMA/CSA 101/I.S.2/A440, NFRC 100, NFRC 200, and Energy Star, Program Requirements for Residential Windows, Doors and Skylights.
- D. CERTIFIED FABRICATOR: Windows shall be fabricated by an AAMA Certified Fabricator.
- E. WARRANTIES:
 - 1. Windows shall be fully warranted against any defects in material or workmanship under normal use and service for a period of 20 years from date of acceptance on commercial projects and lifetime limited warranty to original homeowner on residential projects, 1 year factory labor included.
 - 2. Insulated Glass Units shall be fully warranted against visual obstruction resulting from film formation or moisture collection between the interior glass surface, excluding breakage, for a period of 20 years from date of acceptance on commercial projects and lifetime warranty to original homeowner on residential projects, 1 year factory labor included.
 - 3. Contractor shall provide a written service warranty that clearly spells out how requests for service shall be handled, by whom, under whose

responsibility and shall include the time frame for handling these service requests. A labor warranty providing service on the windows shall cover a period of not less than 5 years and shall be provided in writing. A copy of the product and labor warranty must accompany other applicable warranties and be presented with the bid.

1.04 PERFORMANCE REQUIREMENTS

- A. General—Provide vinyl windows capable of complying with performance requirements indicated, based on testing manufacturer's windows that are representative of those specified.
1. Test for air infiltration shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440. On a test, the air rate shall not be greater than 0.3 cfm per square foot of sash area.
 2. Test for water infiltration shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440. Window shall be tested to 9.20 psf to at least 15% of DP rating..
 3. Uniform Load Structural Test, with the window closed and locked, shall be in accordance with AAMA/WDMA/CSA 101/I.S.2/A440.
 4. Test for Thermal Performance shall be in accordance with NFRC 100 and NFRC 200.e)
 5. Test for Condensation Resistance Factor (CRF) shall be in accordance with AMMA 1503.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Viwinco S-Series Double 2-Lite Slider Window over Picture Window as manufactured by Viwinco, Inc., located at 851 Hemlock Road, Morgantown, PA 19543-0499. Phone (610) 286-8884.www.viwinco.com
1. Materials—Windows shall conform to the requirements of specifications listed above. Provide doors of combinations, types and sizes indicated or specified.
 - a. Frame
 - i) Extruded PVC components, produced from commercial quality virgin PVC (unplasticized polyvinyl chloride), conforms to AAMA 303, Voluntary Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profiles, from sections in one piece, straight, true and smooth. Provide multi-chambered PVC extruded frame in accordance with the manufacturer's standard practice. Make fusion welded frame joints strong enough to develop full strength of members, with an exterior wall thickness of .080". Head and jamb members shall have

an integral 1 ¼" nailing flange, accessory grooves, integral screen stops, and beveled exterior. Inserted into both channels of the sill shall be a full length aluminum monorail with a vinyl snap on cover for the sashes to travel on. The head of the frame shall have an aluminum monorail with a vinyl snap on cover located above the sash in the locked position from the jamb to the center of the frame so that the sash can interlock to the head when closed. All frame members shall be weather-stripped using silicone treated pile with a mylar center fin bonded to backing on the interior side of the interior channel creating a third point of contact to the sash.

- b. Sash—Make interior vertical top surfaces of both meeting rails flat and in the same plane. Meeting rails have an integral interlock with two contact points of pile weather-strip provided. Sash shall have fusion welded miter corners with an external wall thickness of .070. Both sashes shall have equal glass lites and ease of removal. All sash units shall be double weather- stripped where the sash meet the jamb using silicone treated pile with a mylar center fin bonded to backing.
- c. Glass—Factory glazed 15/16" insulating glass conforming to ASTM E2190, Standard Specification for Insulating Glass Unit Performance and Evaluation. Sputter-coated Low-E double strength (3 mm) tempered glass with Ultra Intercept Stainless Steel Spacer and argon gas. Glazing shall be exterior glazed against a bead of silicone, secured with PVC mitered glazing beads and designed to maintain a watertight seal between glass and sash frame.
- d. Hardware
 - 1. Locking Devices: Cam-action sweep sash locks. Double locks where opening exceeds 32" in height. Triple locks where opening exceeds 60" in height.
 - 2. Glide Pads: Nylon glide pads located underneath the lower rail for each sash to ride on the monorail system.
 - 3. Sash Stops: Four inch removable sash stops that snap over the monorail.
- e. Screen
 - 1. Screen Frame: Provide same quality and color finish as the window units. Frames shall have extruded aluminum sections with reinforced corners and built-in lift rails for ease of operation. Hardware, attachment devices, and accessories shall be manufacturer's standard and of same quality, material, and finish as hardware of the window unit.
 - 2. Insect Screening: ASTM D 3656, Standard Specification for Insect Screening and Louver Cloth Woven from Vinyl Coated Glass Yarn, (plastic coated or impregnated fibrous glass yarn) of standard color as approved. Better Vue fabric, .009 by .011 diameters, 18 x 18 woven mesh count. Provides for 68-69% light transmission.

- f. Caulking and Sealing: As specified or recommended by window manufacturer.
 - g. Foam: To achieve R4 and R5 U-factors for certain configurations, manufacturing sprays a two part polyurethane foam into specific cavities in the frame and sash lines for processing that same day.
2. Fabrication
- a. Weathering Surfaces: All frame members shall be multi-chambered PVC extrusions utilizing double wall design without the need for reinforcement. Frame corners shall be fusion welded. Sash members shall be multi-chambered PVC extrusions utilizing double wall design at all glazing locations. Horizontal sash members shall be mitered and fusion welded to vertical sash members.
 - b. Drips and Weep Holes: Provided as required to return water to the outside.
 - c. Glazing Thickness: Design glazed doors and rabbets suitable for glass thickness specified above.
 - d. Fasteners: All fasteners are to be stainless steel type, corrosion resistant. Use flathead, cross-recessed type, exposed head screws with standard threads on windows, trim, and accessories. Screw heads shall finish flush with adjoining surfaces. Self-tapping sheet metal screws are not acceptable for material more than 1/16" in thickness. All sheet metal screw fasteners shall penetrate into a PVC screw boss, or screw raceway, or internal .062" wall thickness aluminum reinforcement to secure fastening and reduce pull out.
 - e. Provisions for Glazing: Design sash for inside double-glazing and for securing glass with manufacturer's standard glazing systems. Provide glazing channels of adequate size and depth to receive and properly support the glass and glazing accessories.
 - f. Factory Mulls: Factory Mulls: Factory mulls to be fully reinforced with 2 1/2" aluminum extrusions for a structurally rated mullion, and assembled utilizing interior and exterior "U" channels and proprietary sealant application patterns. Continuous PVC snap in head flashing to provide for proper shedding of water off the head frame. stainless Steel brackets shall be attached to the end points of the aluminum extrusions to be secured to the rough opening.
 - g. Accessories: Provide windows complete with necessary hardware, fastenings, clips, fins, anchors, glazing beads, and other appurtenances necessary for complete installation and proper operation.
 - h. Sill Nose: Co-extruded flex fin durometer weather-strip to provide a seal between the casing and the window frame without the use of surface applied caulking. The extrusion shall consist of multiple chambers with a 1-11/16" extruded nailing fin and 5/8" by 3/4" integral J channel. Exterior wall thickness shall be a minimum of .065". A color-matched end cap shall be installed at both ends.
 - i. PVC Color Selection: Integral PVC color with UV inhibitors to reduce fading.

- i. Bronze PVC
- j. Weather-stripping: Provide for ventilating sections of all windows to insure a weather tight seal meeting the infiltration tests specified herein. Use easily replaceable factory applied weather-stripping of manufacturer's stock type, as specified above. For sliding surfaces, use silicone treated pile, with a mylar center fin bonded to a plastic-backing strip. Do not use neoprene or polyvinylchloride weather-stripping where they will be exposed to direct sunlight.
- k. Screens: Provide one insect screen for each operable ventilating unit. Design screens to fit closely around entire perimeter of each ventilator or opening, to be rewired, easily removable from outside of the building with no exposed fasteners. Provide all guides, stops, clips, bolts, and screws as necessary, for a secure and insect tight attachment to window.
- l. Screening: Install screening with weave parallel to frame and stretch sufficiently to present a smooth appearance. Conceal edges of screening in the spline channel.
- m. Screen Finish—Exposed surfaces of aluminum extrusions shall be thoroughly cleaned, primed and given a baked enamel finish in accordance with AAMA 603.8, Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum, with total dry thickness not less than 0.8mil. The finish color shall match the vinyl window.

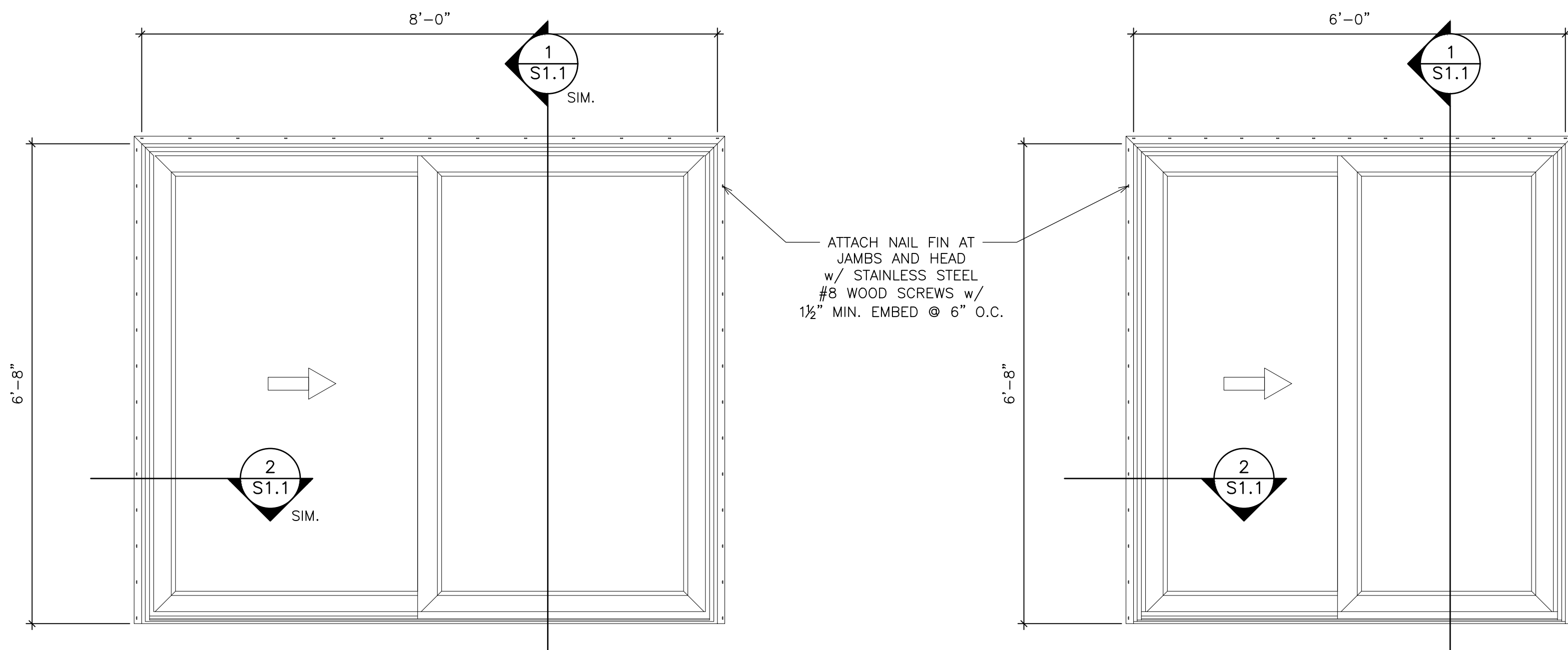
PART 3 – EXECUTION

3.01 EXAMINATION

- A. Have installer verify that project conditions are acceptable before beginning installation of products; verify that rough openings are as indicated and are correct sizes for clearance space specified in manufacturer's instructions.
- B. Correct unacceptable conditions before proceeding with installation.
 - 1. Installation
 - a. Method of Installation: Install in strict accordance with the window manufacturer's printed instructions and details, except as specified otherwise herein. Install windows without forcing into prepared window openings. Insulate perimeter of window frame with acceptable approved insulation material, as recommended by window manufacturer. Set windows at proper elevation, location, and reveal; plumb, square, level, and in alignment; and brace, strut, and stay properly to prevent distortion and misalignment. Protect ventilators and operating parts against accumulation of dirt, and building materials by keeping ventilators tightly closed and locked to frame. Bed screws in sill members, joints at mullions, contacts of windows with sills, built in fins, and sub-frames in approved sealant. Install windows in a manner that will prevent entrance of water. Provide sill angle flashed in sealant at windowsills where applicable.
 - b. Anchors and Fasteners: Make ample provision for securing units to each

- other, and to adjoining construction.
- c. Adjustments after Installation: After installation of windows adjust all ventilators and hardware to operate smoothly and to provide weather tight sealing when ventilators are closed and locked. Lubricate hardware operating parts as necessary.
 - d. Protection: Where surfaces are in contact with, or fastened to wood or dissimilar materials, the surface shall be protected from dissimilar materials as recommended by the manufacturer. Surfaces in contact with sealant after installation shall not be coated with any type of protective material.
 - e. Cleaning: Clean interior and exterior of window units of mortar, plaster, paint spattering spots, sealants, and other foreign matter to present a neat clean appearance and to prevent fouling of weather-stripping surfaces and weather-stripping, and to prevent interference with the operation of hardware. Replace with new windows all stained, discolored, or abraded door that cannot be restored to their original condition.

END OF SECTION

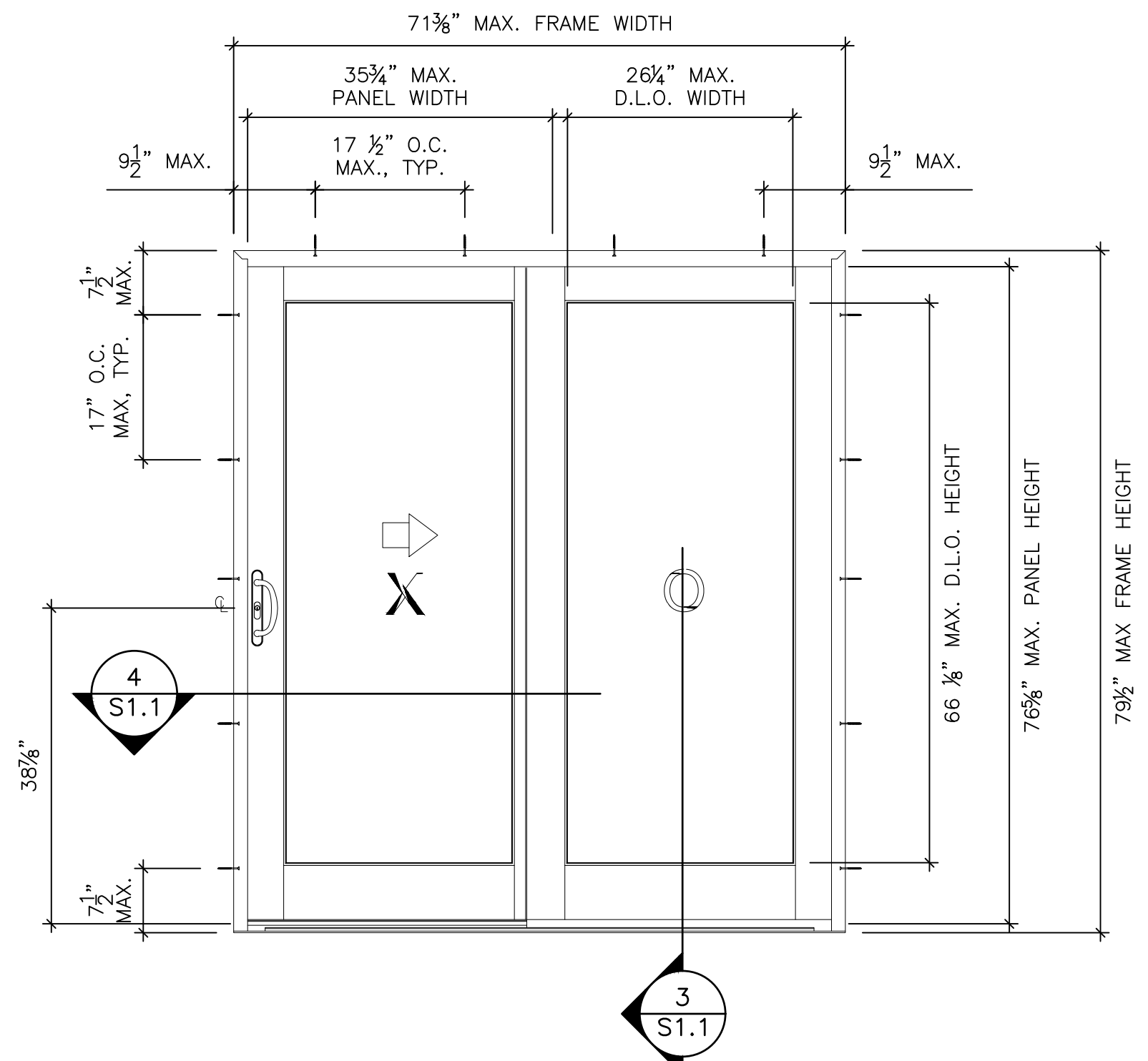


NORTH SIDE SLIDER DOOR ELEVATIONS

SCALE: 3/4" = 1'-0"

NOTE:
SLIDER DOORS SHALL HAVE A PERFORMANCE GRADE RATING C50 WITH A DESIGN PRESSURE RATING OF DP50.

ATTACH NAIL FIN AT JAMBS AND HEAD w/ STAINLESS STEEL #8 WOOD SCREWS w/ 1/2" MIN. EMBED @ 6" O.C.



SOUTH SIDE SLIDER DOOR ELEVATIONS

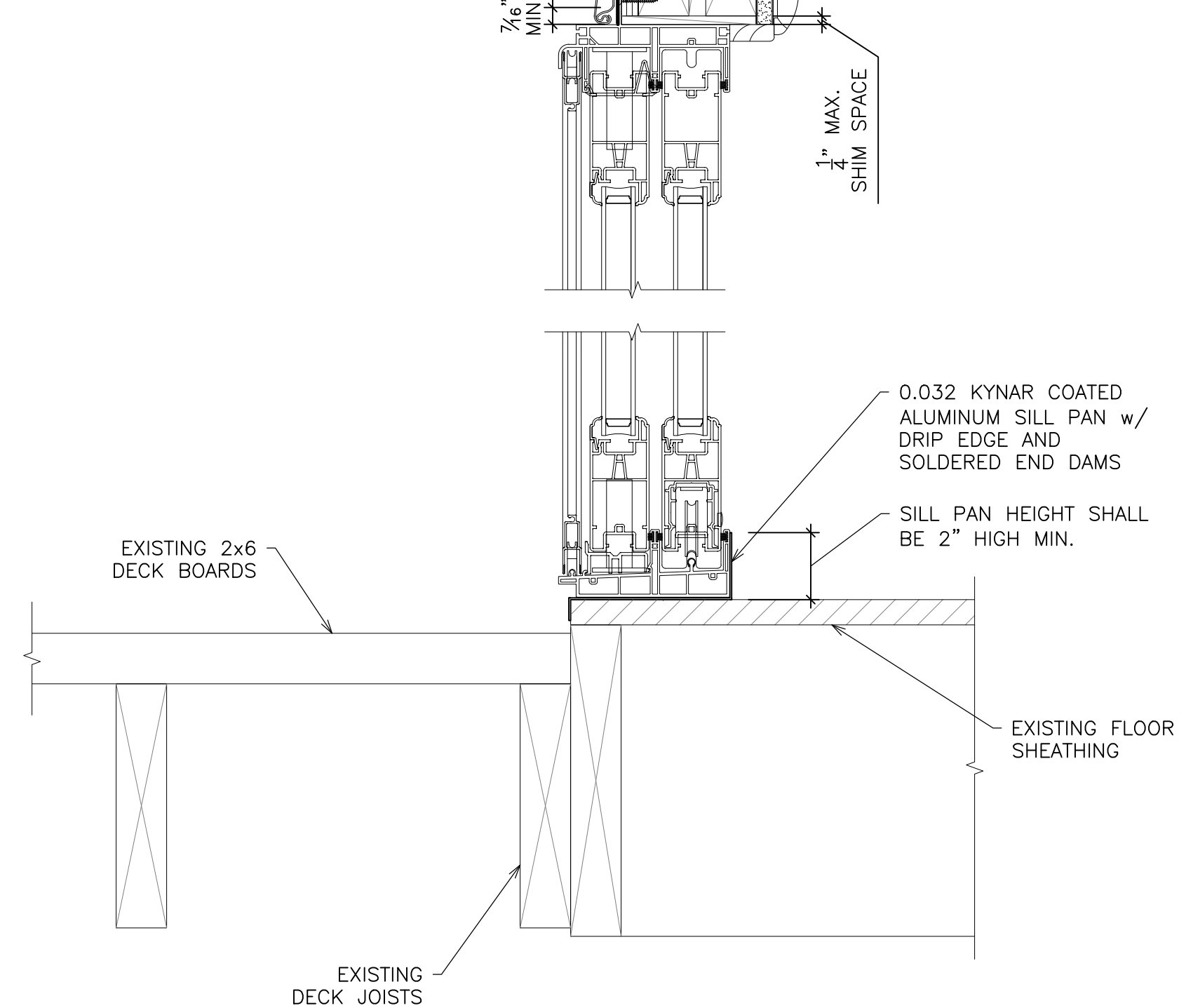
SCALE: 3/4" = 1'-0"

NOTE:
SLIDER DOORS SHALL HAVE A PERFORMANCE GRADE RATING C50 WITH A DESIGN PRESSURE RATING OF DP50.

WOOD FRAMING

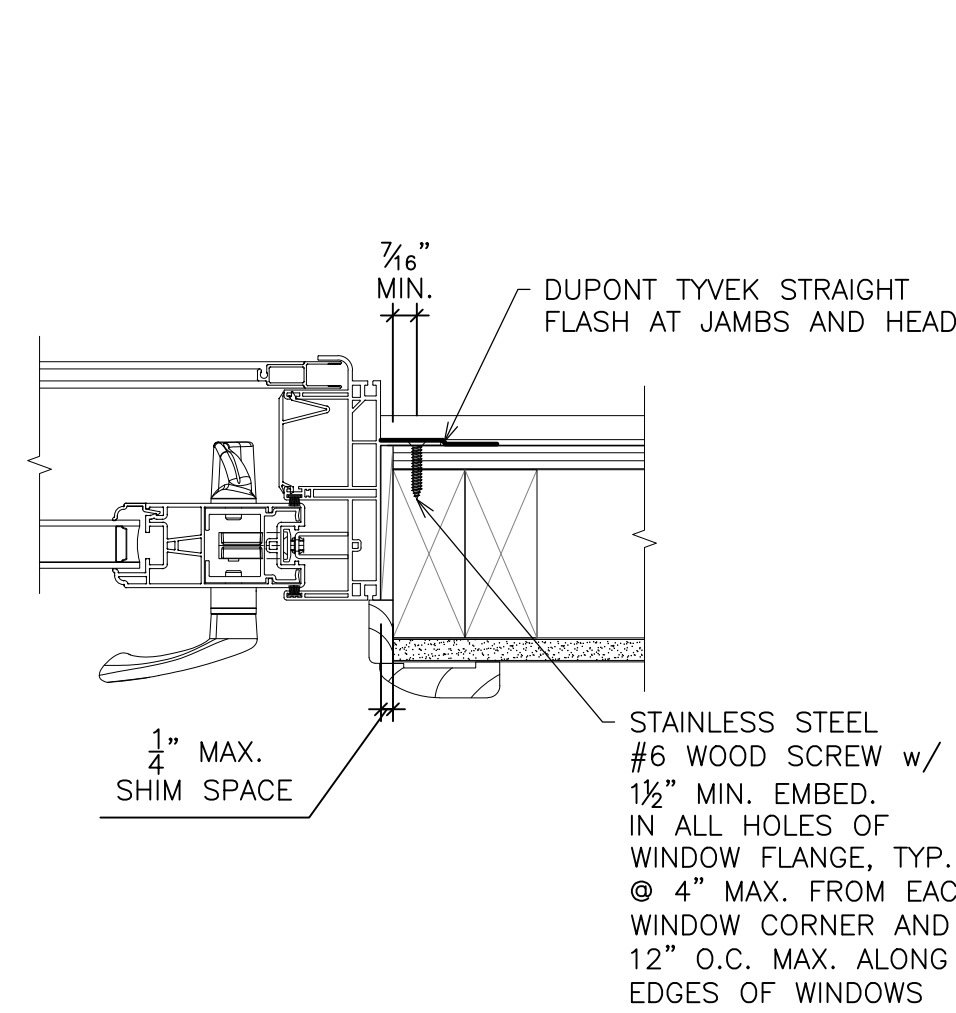
LAP EXISTING TYVEK OVER STRAIGHT FLASH. REPAIR AS REQUIRED
DUPONT TYVEK STRAIGHT FLASH AT JAMBS AND HEAD

STAINLESS STEEL #6 WOOD SCREW w/ 1/2" MIN. EMBED. IN ALL HOLES OF WINDOW FLANGE, TYP. @ 4" MAX. FROM EACH WINDOW CORNER AND 12" O.C. MAX. ALONG EDGES OF WINDOWS



HEAD AND SILL DETAIL 1

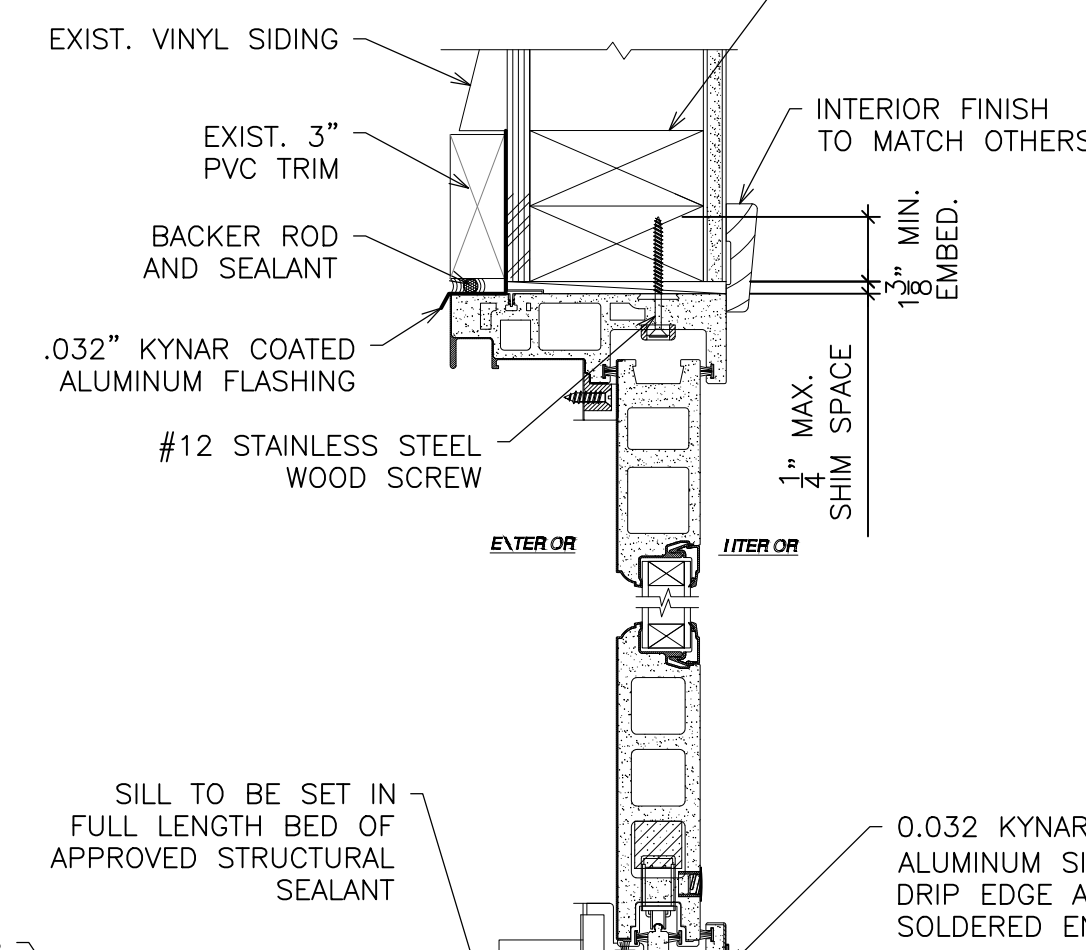
SCALE: 3" = 1'-0"



JAMB DETAIL 2

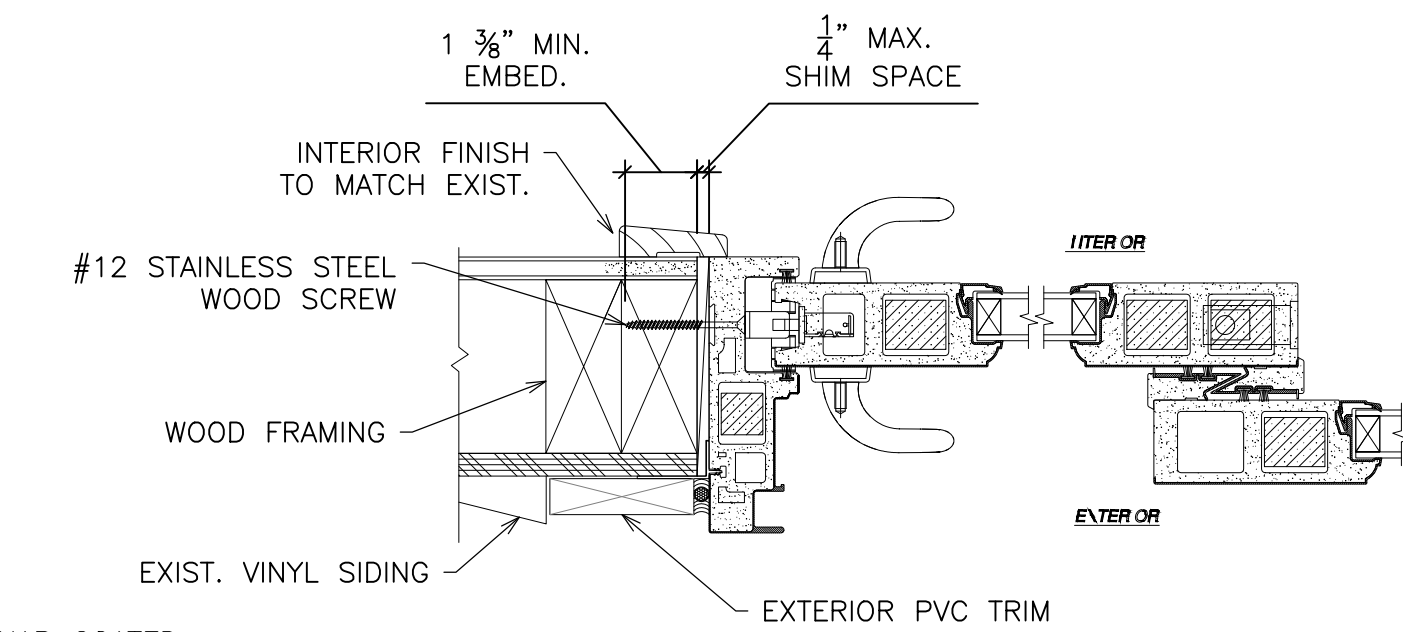
SCALE: 3" = 1'-0"

STAINLESS STEEL #6 WOOD SCREW w/ 1/2" MIN. EMBED. IN ALL HOLES OF WINDOW FLANGE, TYP. @ 4" MAX. FROM EACH WINDOW CORNER AND 12" O.C. MAX. ALONG EDGES OF WINDOWS



HEAD AND SILL DETAIL 3

SCALE: 3" = 1'-0"



JAMB DETAIL 4

SCALE: 3" = 1'-0"

GENERAL NOTES FOR ALL WINDOW AND DOOR DETAILS:

1. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING WINDOWS AND DOORS.

PRINTS ISSUED FOR:
CONSTRUCTION

REVISIONS

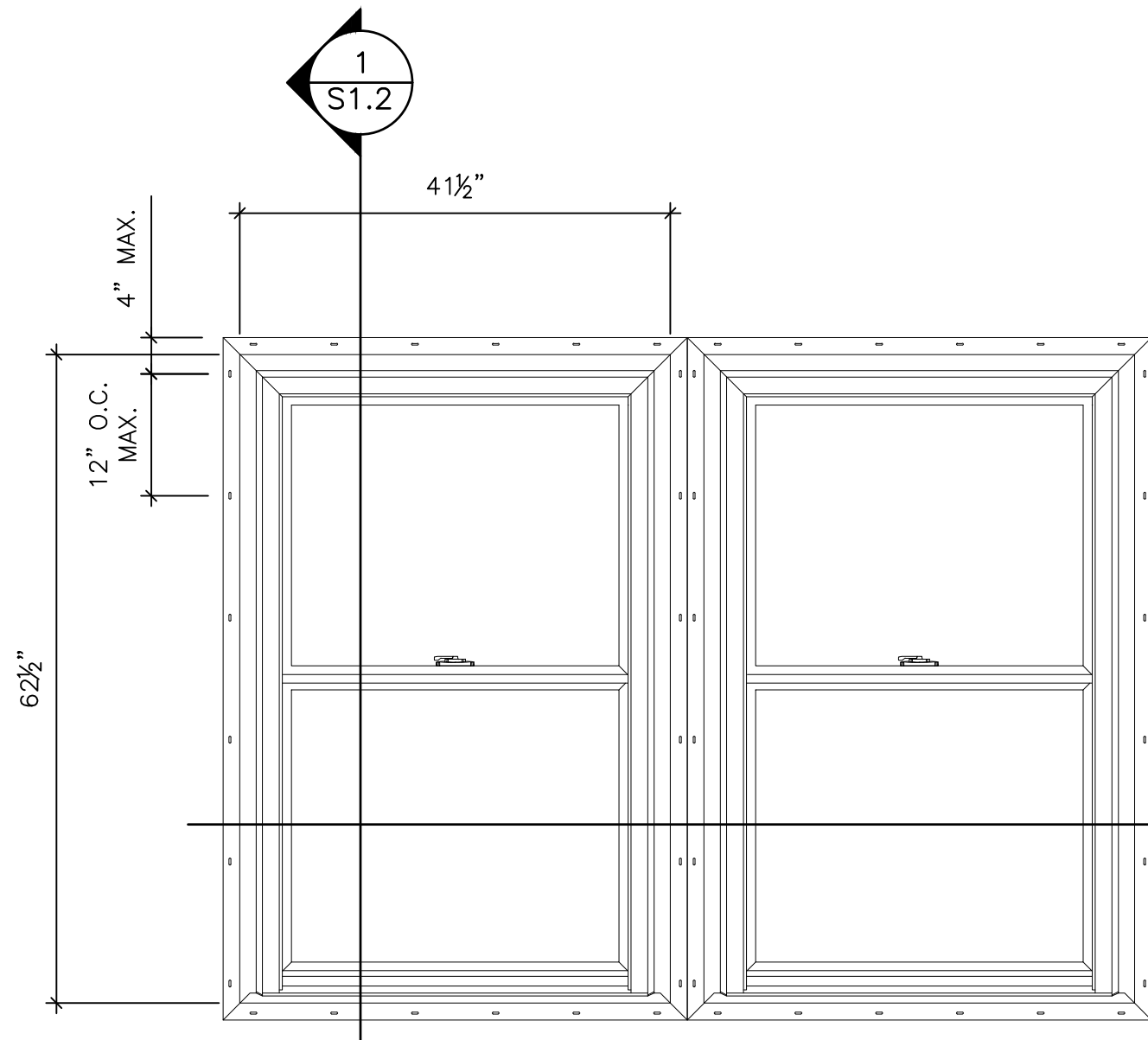
REV #	DESCRIPTION	DATE
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GMB
 GEORGE, MILES & BUHR, LLC
 ARCHITECTS & ENGINEERS
 SALISBURY • BALTIMORE • SEAFORD
 206 DOWNTOWN PLAZA
 SALISBURY, MARYLAND 21801
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 www.gmbnet.com

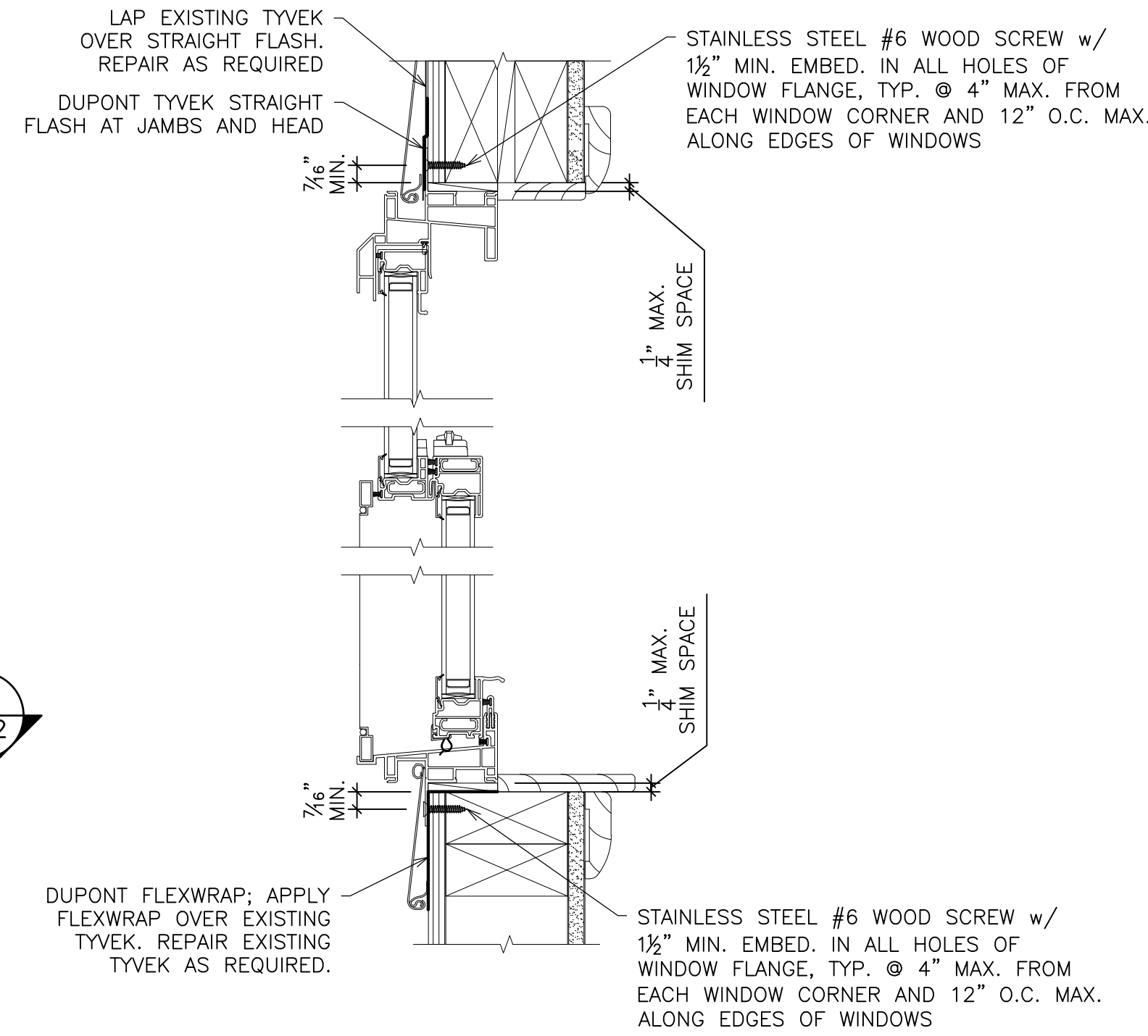
WINDOW AND DOOR REPLACEMENT
 CASA DEL SOL CONDOMINIUM
 94TH STREET
 OCEAN CITY, MARYLAND

SLIDING DOOR ELEVATIONS AND DETAILS

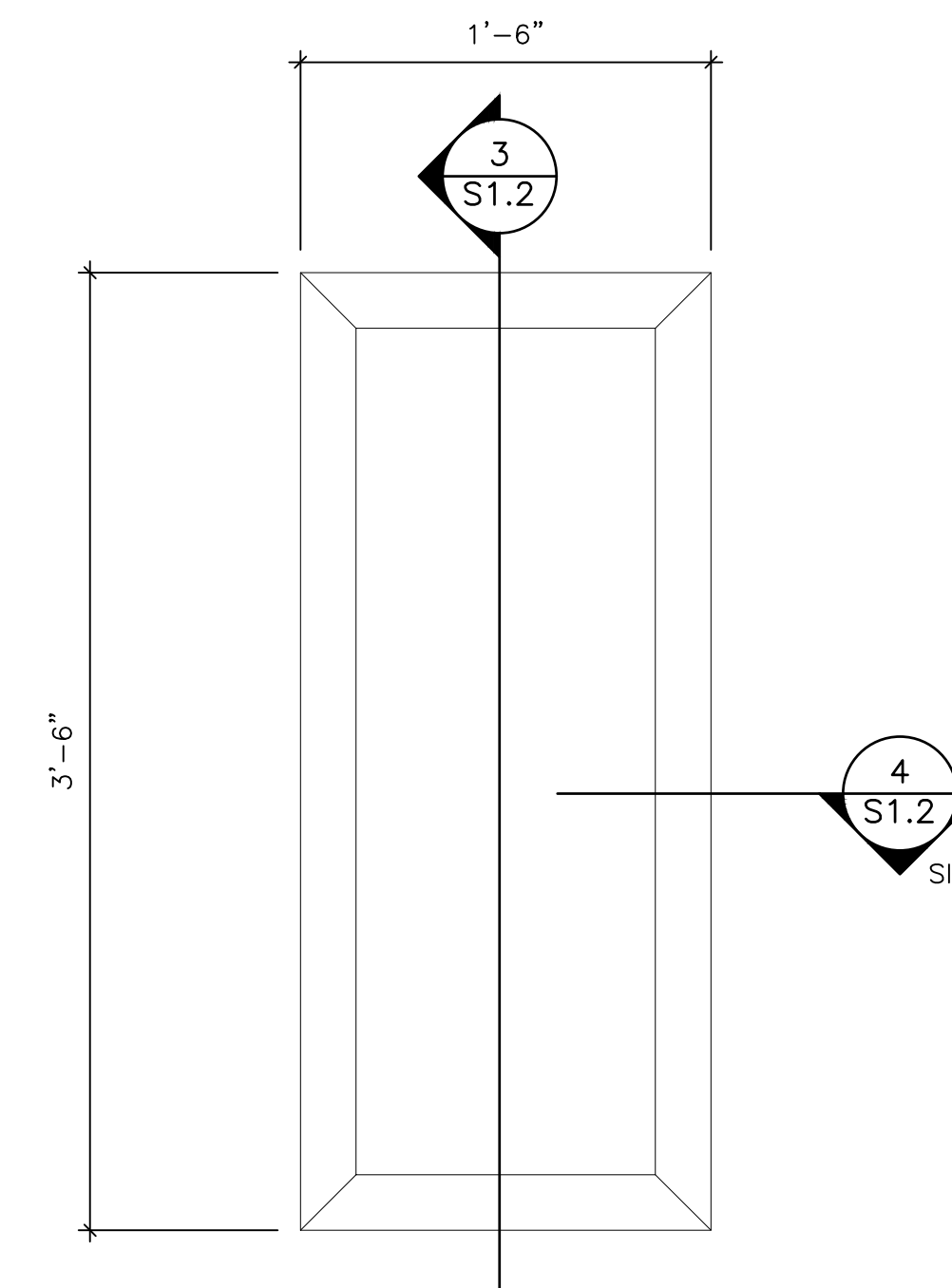
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DESIGN BY: REH	S1.1
DRAWN BY: TPVT	
CHECKED BY: REH	
GMB FILE: 230035	
DATE: OCT 2023	



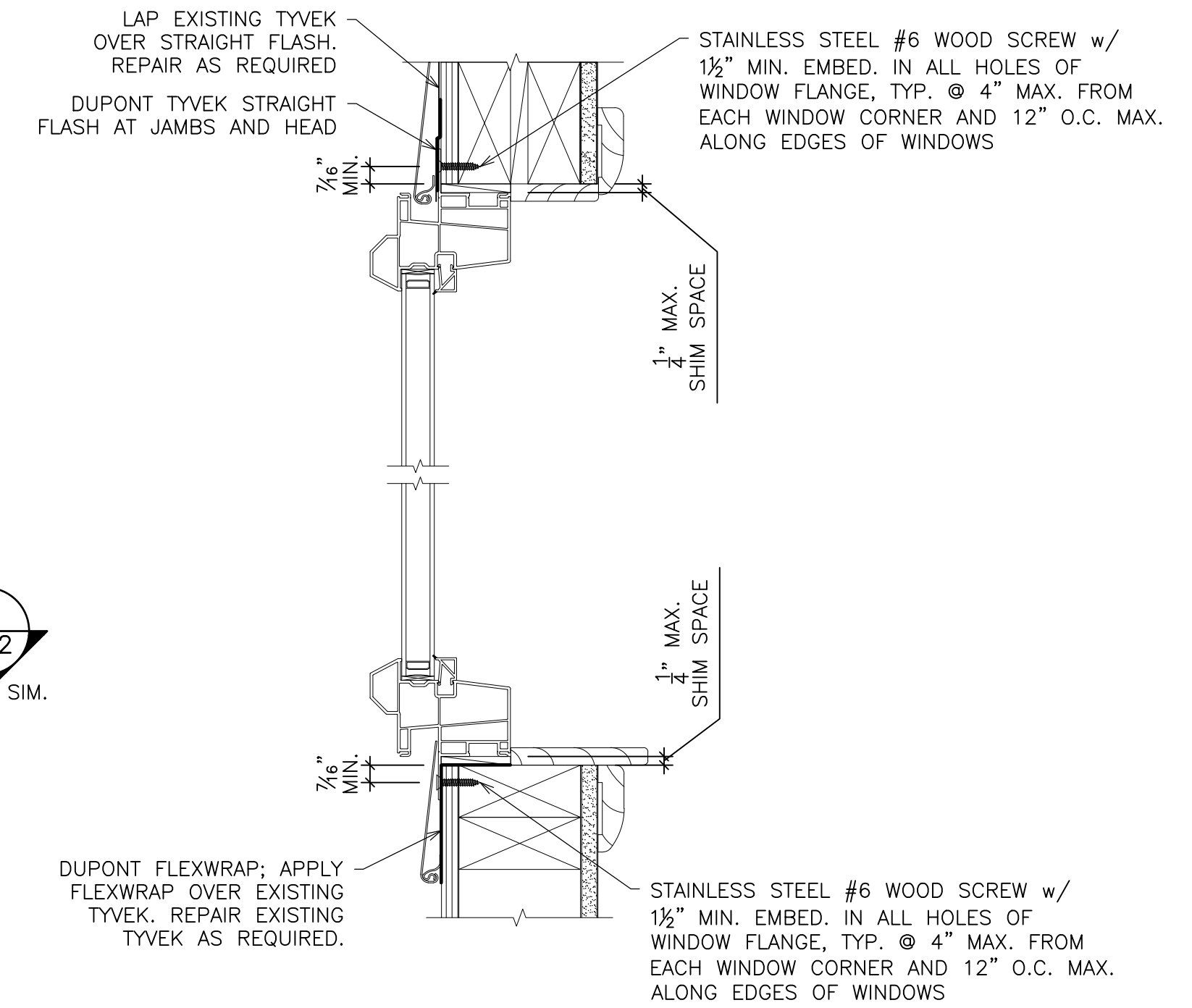
DOUBLE HUNG WINDOW ELEVATION
SCALE: 3/4" = 1'-0"



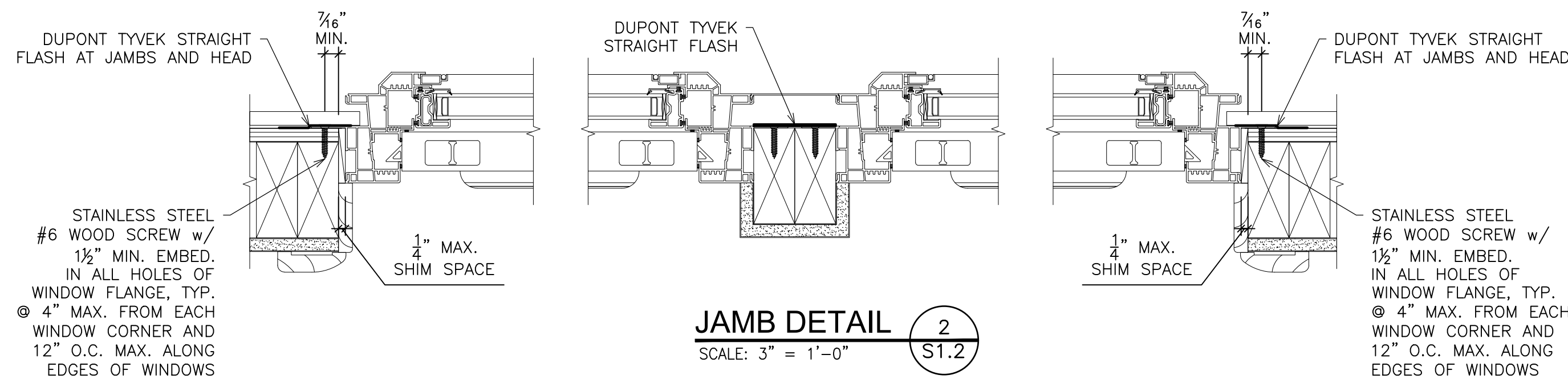
HEAD AND SILL DETAIL 1
SCALE: 3" = 1'-0"



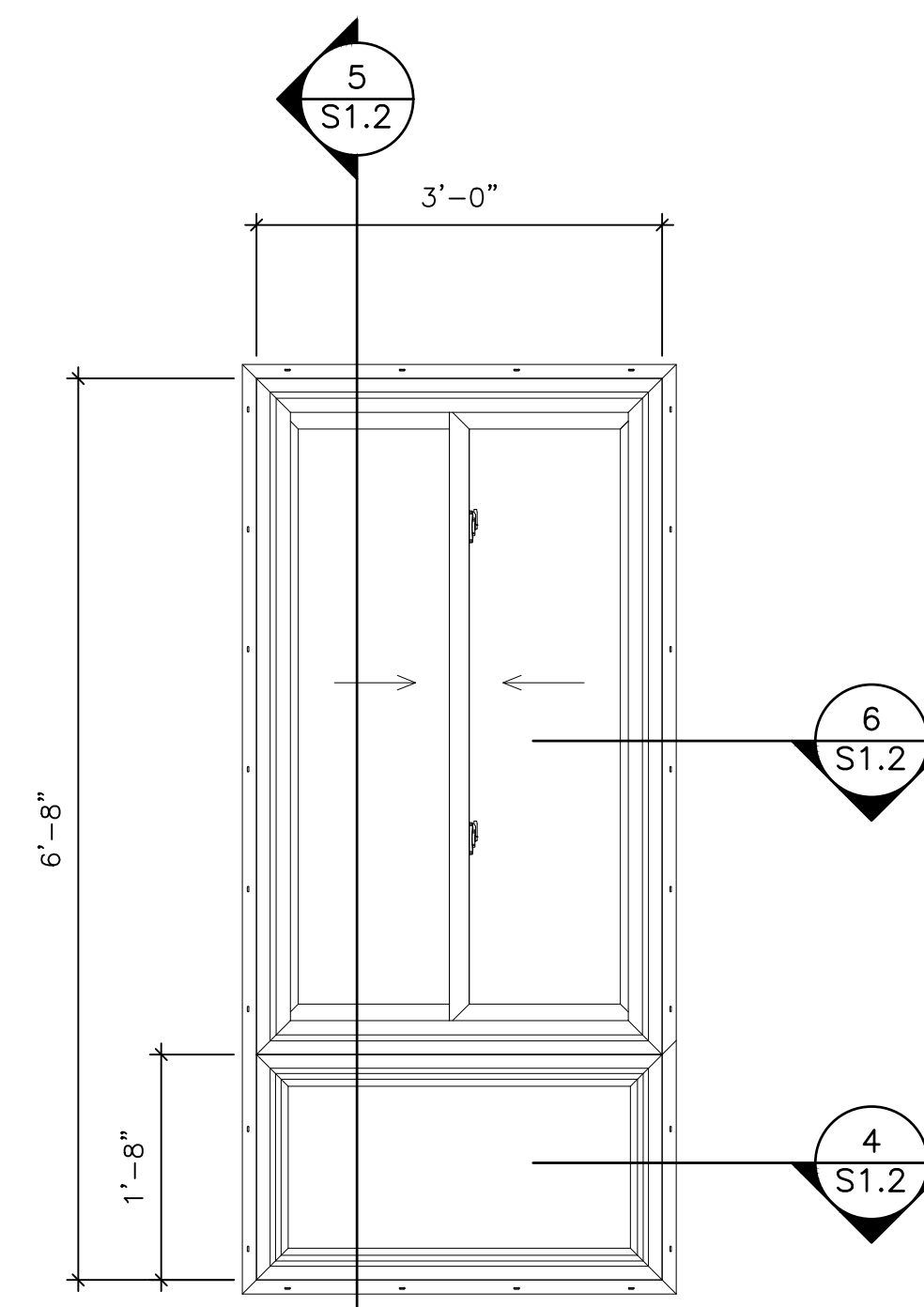
GROUND LEVEL FIXED WINDOW ELEVATION
SCALE: 1 1/2" = 1'-0"



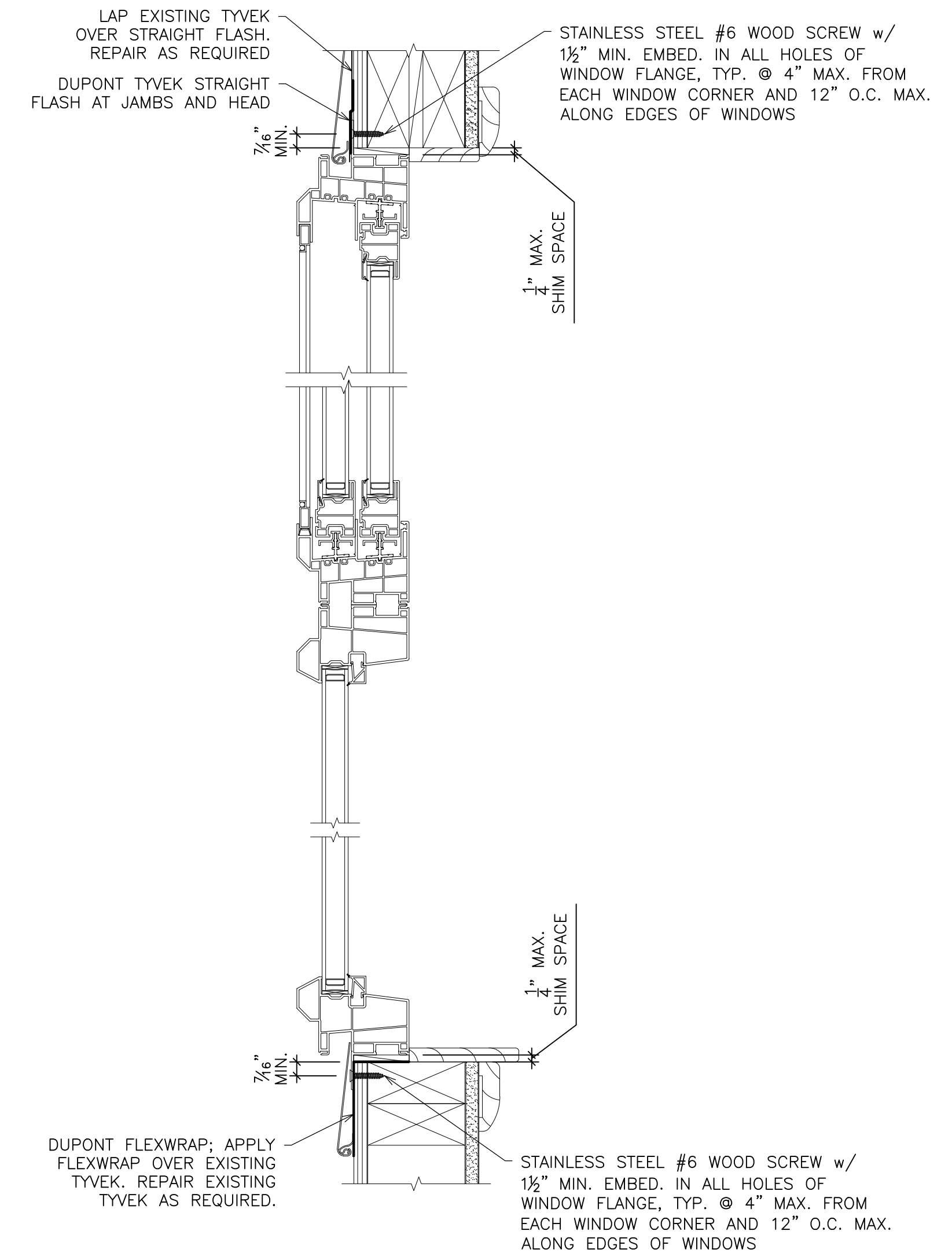
HEAD AND SILL DETAIL 3
SCALE: 3" = 1'-0"



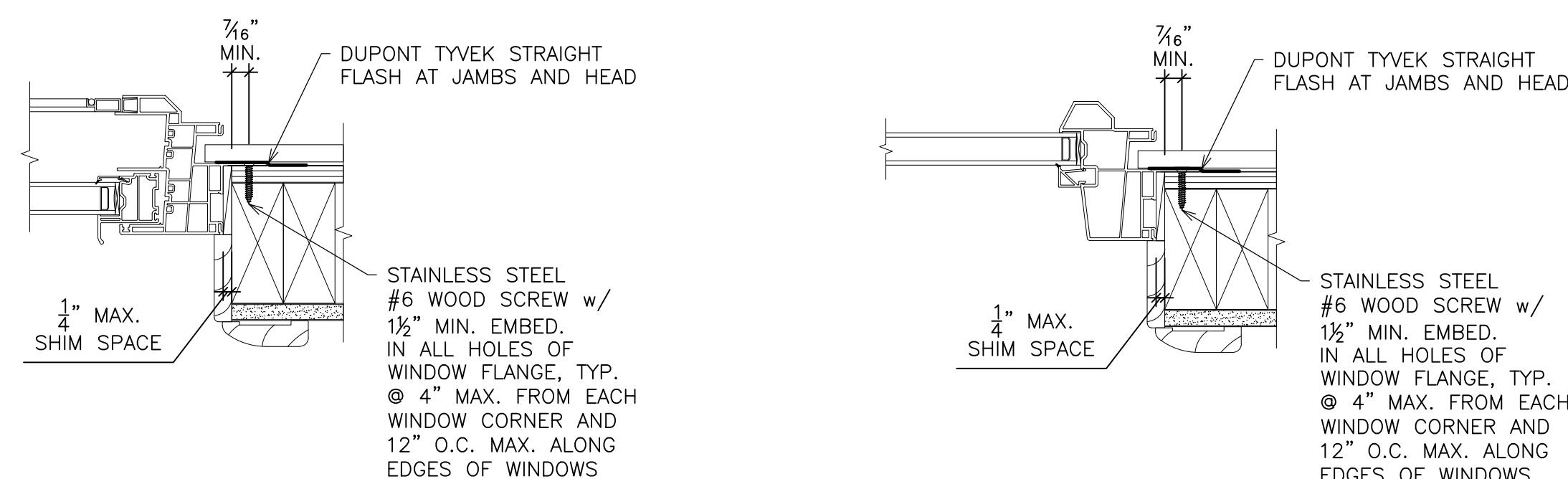
JAMB DETAIL 2
SCALE: 3" = 1'-0"



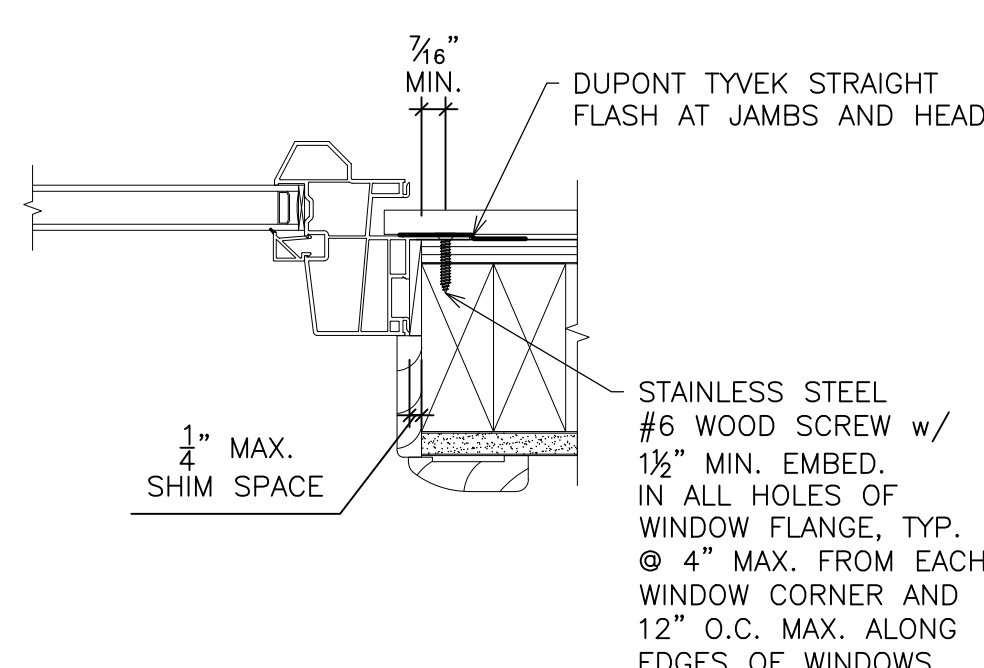
SLIDER w/ PICTURE WINDOW
SCALE: 3/4" = 1'-0"



HEAD AND SILL DETAIL 5
SCALE: 3" = 1'-0"



JAMB DETAIL 6
SCALE: 3" = 1'-0"



JAMB DETAIL 4
SCALE: 3" = 1'-0"

PRINTS ISSUED FOR:
CONSTRUCTION

REVISIONS

REV #	DESCRIPTION	DATE
1		
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6		
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WINDOW AND DOOR REPLACEMENT
CASA DEL SOL CONDOMINIUM
94TH STREET
OCEAN CITY, MARYLAND

WINDOW ELEVATIONS AND DETAILS

SCALE: AS NOTED	SHEET NO.
DESIGN BY: REH	S1.2
DRAWN BY: TPVT	
CHECKED BY: REH	
GMB FILE: 230035	
DATE: OCT 2023	