



Cleveland County

NORTH CAROLINA

June 1, 2021

TO: All Qualified Furnishings Vendors on NC State Contract

RE: **REQUEST FOR PROPOSAL – SYSTEMS FURNITURE AND INTERIOR GLASS WALLS AND DOORS**

DSS Co-location Project for the
Cleveland County Health Department Building
200 S. Post Road, Shelby, NC

On behalf of Cleveland County, NC and the County Department of Social Services, Talley & Smith Architecture, Inc. is requesting Proposals for commercial System Furniture and Interior Glass Walls and Doors as outlined below:

General Requirements:

- All Pricing contained in Proposals should include product solutions as depicted in the attached Overall Plans for each departmental area and Typical arrangements contained herein. Pricing should also include delivery costs and installation expenses to be incurred, as well as removal of any and all packing materials.
- All Pricing should assume delivery direct to the project Site to coincide with phasing schedules of the General Contractor to be selected. The facility has the capacity to temporarily store freight deliveries in advance of the requirements of construction operations. After-hours and weekend deliveries are not anticipated.
- Unless otherwise noted, any product solutions depicted in this RFP package are provided as the Basis of Design and are shown solely to convey the design intent rather than to restrict Proposers to the specific brand shown. The exhibits included herein convey the general style, types, character, and quality of the System Furnishings desired.
- Product dimensions (height, width, length) are design intent, and are based upon the dimensional requirements of the interior spaces available. Dimensions may vary based upon the Proposer's product offerings, however, Proposer should understand any departures from the Basis of Design may result in disqualification. No custom products or proprietary specialty features are desired with this RFP.
- All Plan layouts shown were derived based upon input from DSS Leadership and the Design Principles guiding the project. As a result, a certain level of personnel growth is embodied in the planning to date. However, expansibility and flexibility of the System Furnishings is important as the DSS mission expands. DSS Leadership further desires to

achieve a clear, open-plan interior that meets their functional needs in each departmental area, minimizes visual clutter, and present an updated impression.

- All Pricing should be for generic, mid-grade finishes as prescribed, unless otherwise noted.
- Submittal documents in response to this RFP shall include an itemized Proposal with sub-totals for each Workstation type, along with quantities (whole-of-parts) of each line-item included. Indicate in either rendered or photographic depictions all proposed products in a way that clearly indicates what is being submitted by the proposed manufacturer. Include all installation labor, anticipated freight costs to jobsite, taxes, and any related fees or surcharges as a separate sub-total at the end of the Proposal.
- All Pricing should include information related to terms of payment, and any financial conditions or limitations upon which the County will remit as part of a future Purchase Order.

Estimated Schedule for System Furnishings:

- Distribute RFP to Vendors 06/01/21
- RFP Responses Due to County 06/18/21
- Furnishings Vendor Selection 06/22/21
- Finalize Selections and Finishes 06/23/21 – 06/30/21
- Provide Total Elec. Load Data 06/30/21 To A/E
- Finalize Final Proposal for P.O. 07/03/21 – 08/03/21
- Order Products Proposed 09/15/21
- Construction Bid Date 10/19/21 Estimated
- Delivery/Installation Phases 01/15/22 – 04/06/22
- Owner Move-In 04/15/22 – 04/29/21

Documentation Provided with this RFP:

Verify all of the following attachments are received with this RFP.

- Specification Section 12 59 00 for System Furnishings
- Specification Section 08 41 13 for Steel-framed Doors and Storefronts
- Overall Lower Floor Plan – Workstation Layouts in Basis of Design
- Overall Upper Floor Plan – Workstation Layouts in Basis of Design
- Workstation Typical (L-Shaped) in Basis of Design
- Workstation Typical (U-Shaped) in Basis of Design
- Steelcase Answer Panel depicted in Typical in Basis of Design
- Steelcase Bivi Table depicted in Typical in Basis of Design

The submittal deadline is June 18, 2021 at 3:00 PM

Proposals shall be submitted as an electronic PDF on a USB thumb drive and in 3 paper copies in a sealed envelope/box.

The sealed envelope/box shall be labeled with the project name and the bidder's name.

Proposals can be submitted by any one of the following methods:

Mail: Cleveland County
Finance & Purchasing Department
Attn: Kim Lester
PO Box 1210,
Shelby, NC 28151

Hand delivered: Cleveland County Administrative Building
2nd Floor
Finance & Purchasing Department
Attn: Kim Lester
311 E. Marion St
Shelby, NC

Administrative questions can be emailed to Kim Lester at:
Kim.Lester@clevelandcountync.gov

If there are any project scope questions, please contact:

Kenneth J. Pflieger, AIA Architect PLLC
1004 Joanne Court
Kings Mountain, NC 2828086-4110
D: (704) 750-4471
C: (704) 560-2580
E: Ken@kenarch.com



DSS Co-Location Project – Basis of Design Document
May 28, 2021

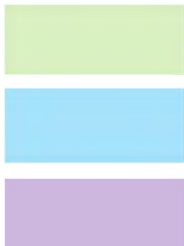
LOWER LEVEL – STATION LOCATIONS



EHS AND HEALTH EDUC. RE-CONFIGUR.
LOWER LEVEL AREA = 2,518 NSF

CO-LOCATED DSS BUSINESS OFFICE
LOWER LEVEL AREA = 1,104 NSF

CO-LOCATED LOWER LEVEL AREA = 22,592 NSF INCLUDING DSS CHILD WELFARE PROGRAM,
CHILD PERMANENCY, ADULT PROGRAM, INTAKE, REMOTE STAFF SUPPORT, AND FITNESS

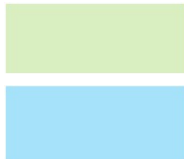


U-SHAPE WORKSTATIONS

L-SHAPE WORKSTATIONS

BENCHING

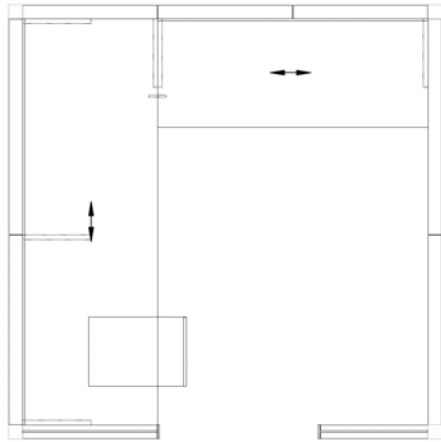
UPPER FLOOR – STATION LOCATIONS



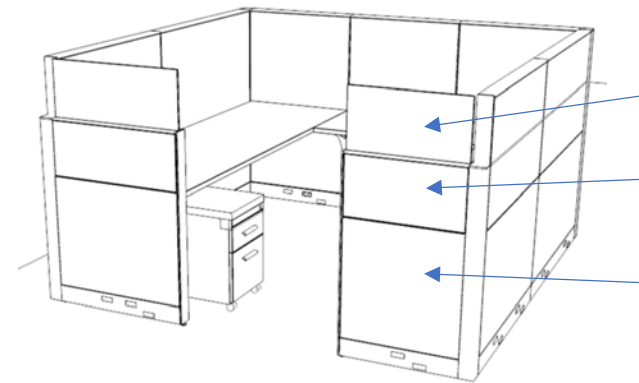
U-SHAPE WORKSTATIONS

L-SHAPE WORKSTATIONS

L-SHAPE TYPICAL: 7'-6" X 7'-6"



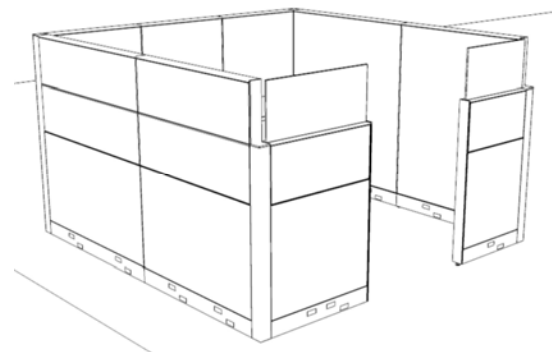
Exterior Skin Elevation



Frameless
Integrated Glass

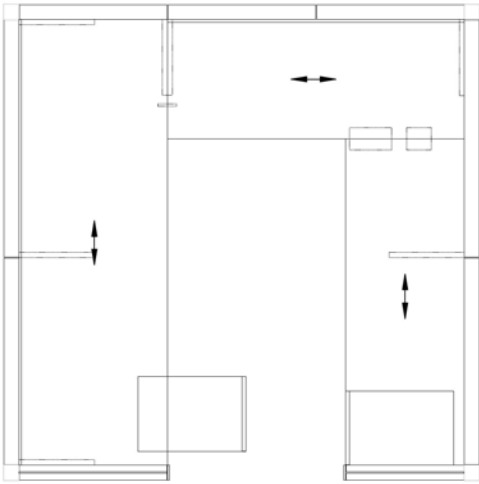
Accent Fabric Skin

Laminate Skin –
Color to be
Selected



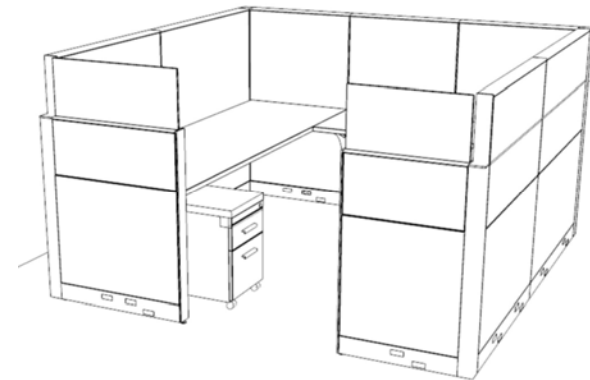
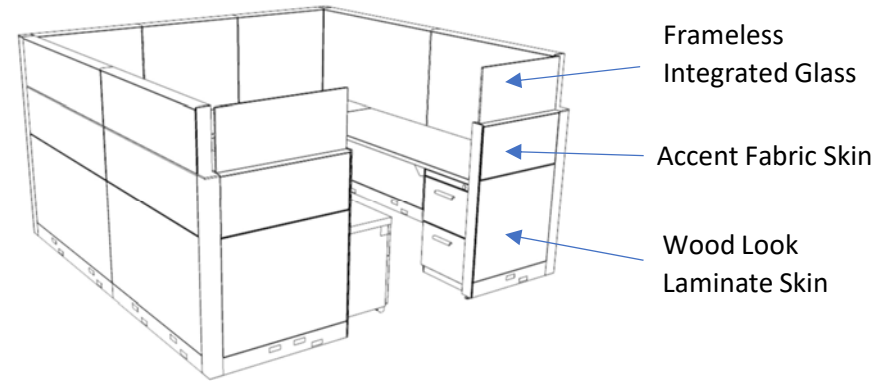
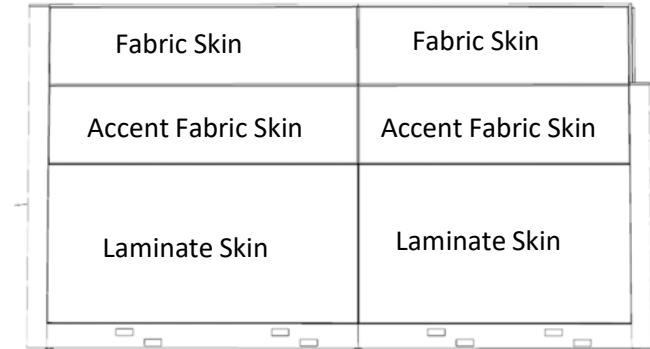
- 90Wx30D High Pressure Laminate Worksurfaces
- 60Wx24D High Pressure Laminate Worksurfaces
 - All Worksurfaces to have 1/2" Cord Drop
- 15Wx22D Mobile, Lockable Box/File Metal Pedestal with attached Cushion – Grade 1 Fabric
 - Pedestal to have Full Depth Drawers + Internal Dividers
- 54H x 3" Thick Acoustical Panels to have Fabric and Laminate Skins on exterior and full skins on interior + 12H x 3/8" Thick Integrated Frameless Glass upper on all wing panels
- Panels Powered in Spine – (3) Duplex Receptacles per Station
- All Exterior Panels to be Segmented, All Interior Panels are full skins
- All Panels must have ability to add power later without purchasing a new panel

U -SHAPE TYPICAL: 7'-6" X 7'-6"

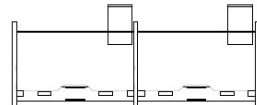
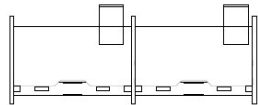
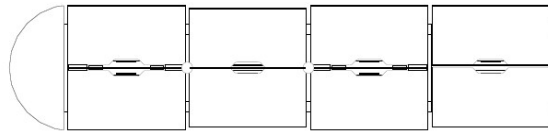
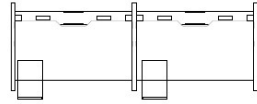
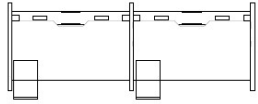


- 90Wx30D High Pressure Laminate Worksurfaces
- 60Wx24D High Pressure Laminate Worksurfaces
- 66Wx24D High Pressure Laminate Worksurface with 15Wx22D Fixed, Lockable F/F Metal Pedestal
 - All Worksurfaces to have ½" Cord Drop
- 15Wx22D Mobile, Lockable Box/File Metal Pedestal with Cushion – Grade 1 Upholstery
 - Pedestal to have Full Depth Drawers + Internal Dividers
- 54H x 3" Thick Acoustical Panels to have Fabric and Laminate Skins on exterior and full skins on interior + 12H x 3/8" Thick Integrated Frameless Glass upper on all wing panels
- Panels Powered in Spine – (3) Receptacles per Station
- All Exterior Panels to be Segmented, All Interior Panels are full skins
- All Panels must have ability to add power later without purchasing a new panel

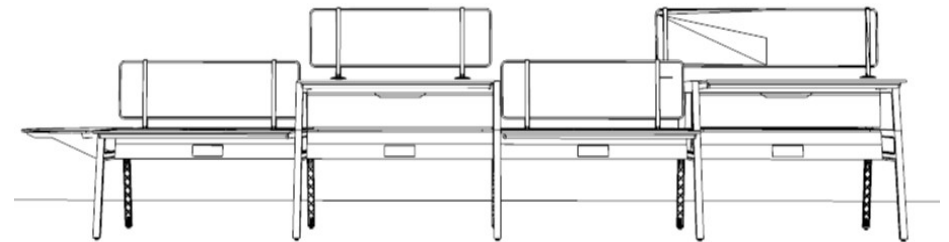
Exterior Skin Elevation



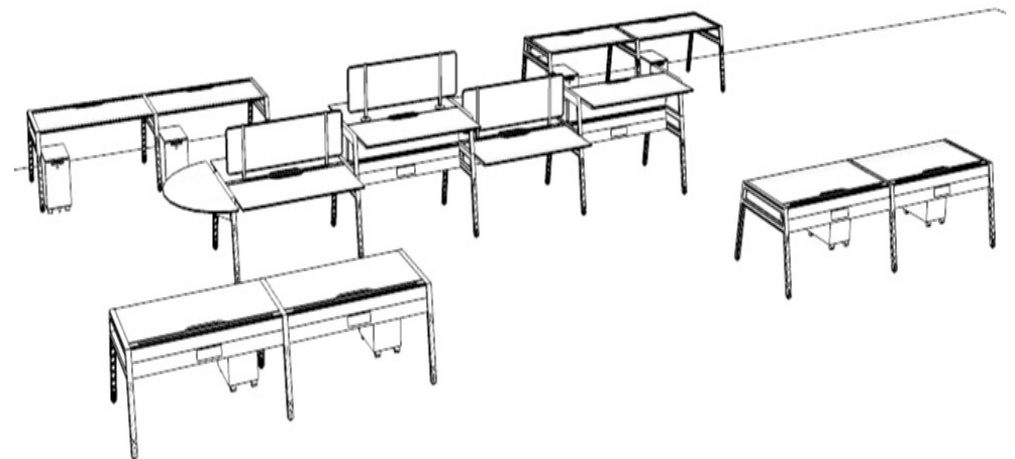
BENCHING REMOTE TOUCHDOWN RM 416



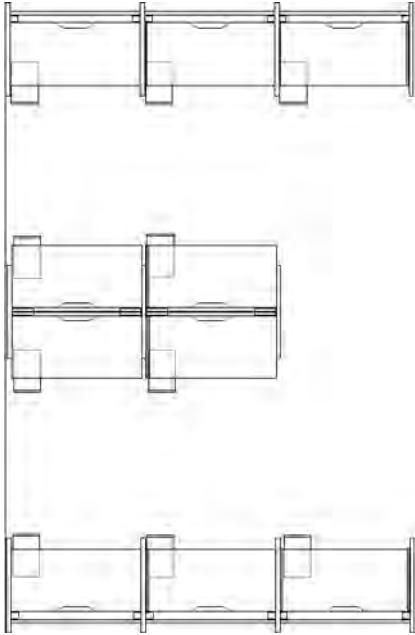
Center Stations to be mix of seated and standing height options as shown below; with integrated fabric screens, hardwired with 4 duplex receptacles at each desk



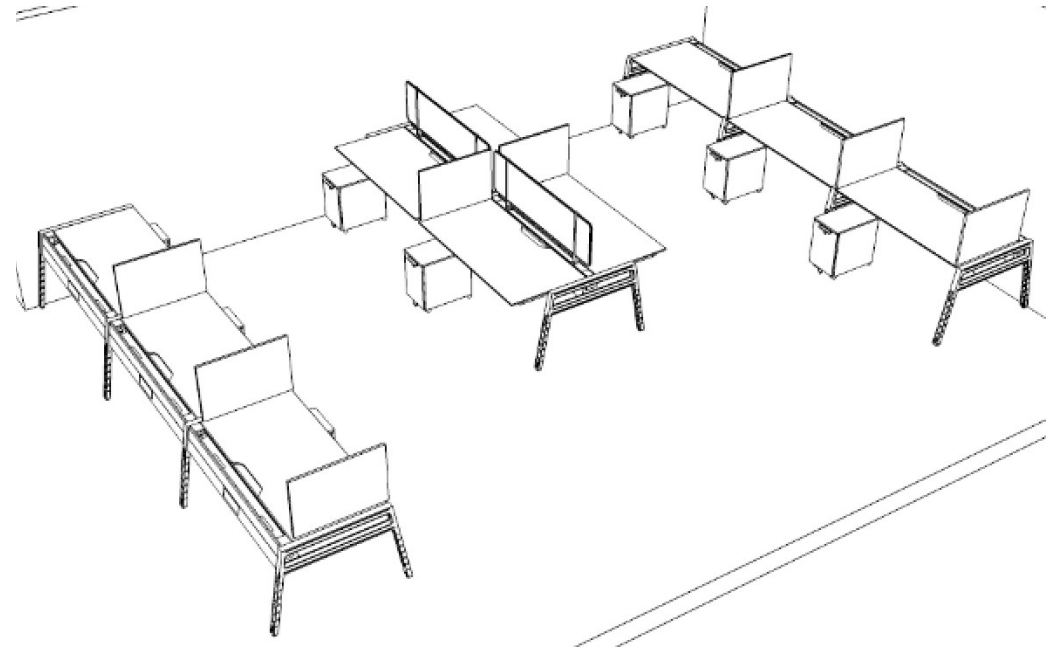
- 60Wx30D High Pressure Laminate Worksurfaces
 - Benching should be able to support seated and hi-sit settings
 - Structure should include integrated wiring and cable troughs
 - Center 8 pack should be hard wired with 2 duplex receptacles for each user
 - Solution should include integral foot rails at two different heights – one for standing and one for hi-sit
 - Frame – Accent Paint of Blue and Green Required
- 12Wx18D Slim Mobile Pedestal, Lockable – Accent Paint of Blue and Green Required
- 19”H Integrated (Not Free-standing) fabric center screen, full width of worksurface required



BENCHING
LONG TERM TOUCHDOWN RM 415



Center Stations to have integrated fabric screens down the center spine, hardwired with 4 duplex receptacles at each desk. Addition of side screens to be added to this room.

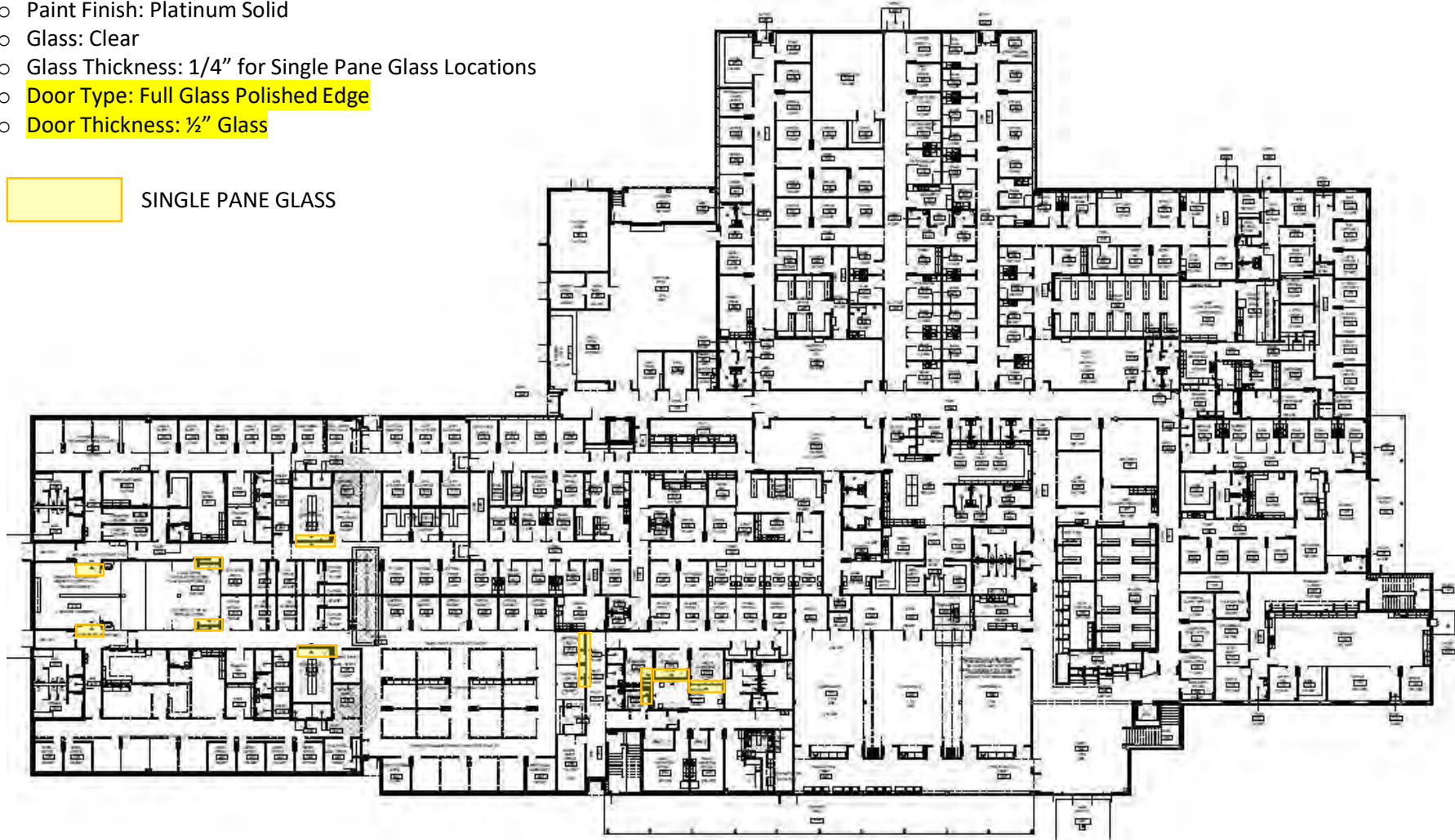


- 60Wx30D High Pressure Laminate Worksurfaces
 - Benching should be able to support seated and hi-sit settings
 - Structure should include integrated wiring and cable troughs
 - Center 8 pack should be hard wired with 2 duplex receptacles for each user
 - Solution should include integral foot rails at two different heights – one for standing and one for hi-sit
 - Frame – Accent Paint of Color to be Selected
- 12Wx18D Slim Mobile Pedestal, Lockable – Accent Colors to be Selected by Owner
- 19”H Integrated (Not Free-standing) fabric center screen, full width of worksurface required
- 19”H Freestanding side-screen, full depth of worksurface required

LOWER LEVEL - OVERALL
V.I.A.

- Frame: Platinum Metallic
- Hardware: Polished Chrome
- Paint Finish: Platinum Solid
- Glass: Clear
- Glass Thickness: 1/4" for Single Pane Glass Locations
- Door Type: Full Glass Polished Edge
- Door Thickness: 1/2" Glass

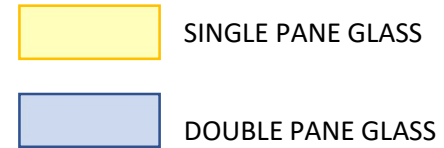
 SINGLE PANE GLASS



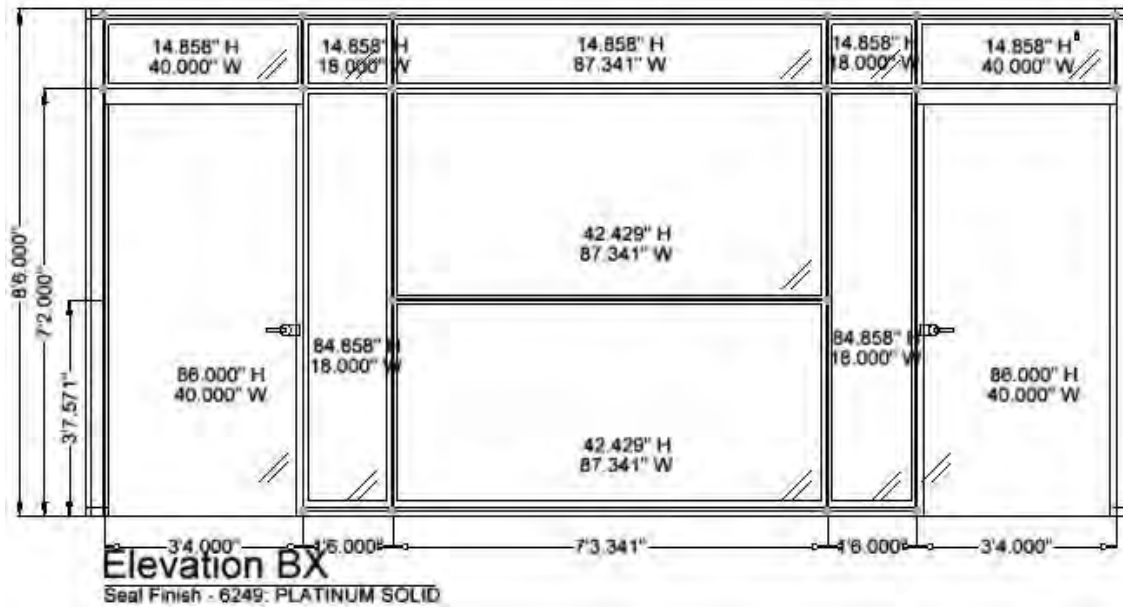
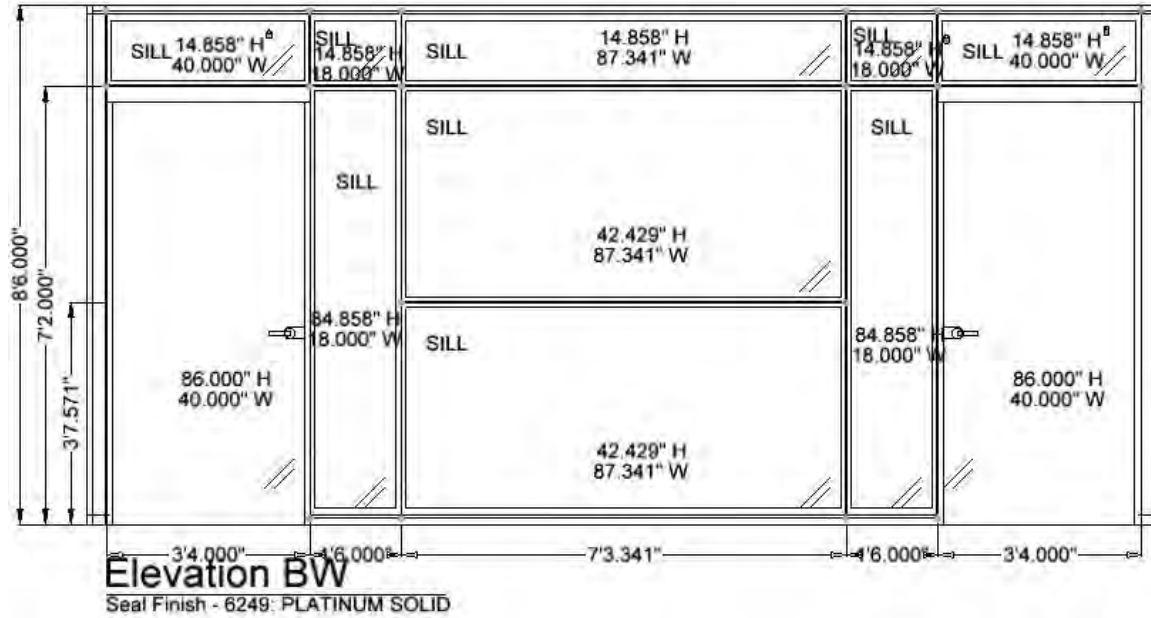
UPPER FLOOR – OVERALL
V.I.A



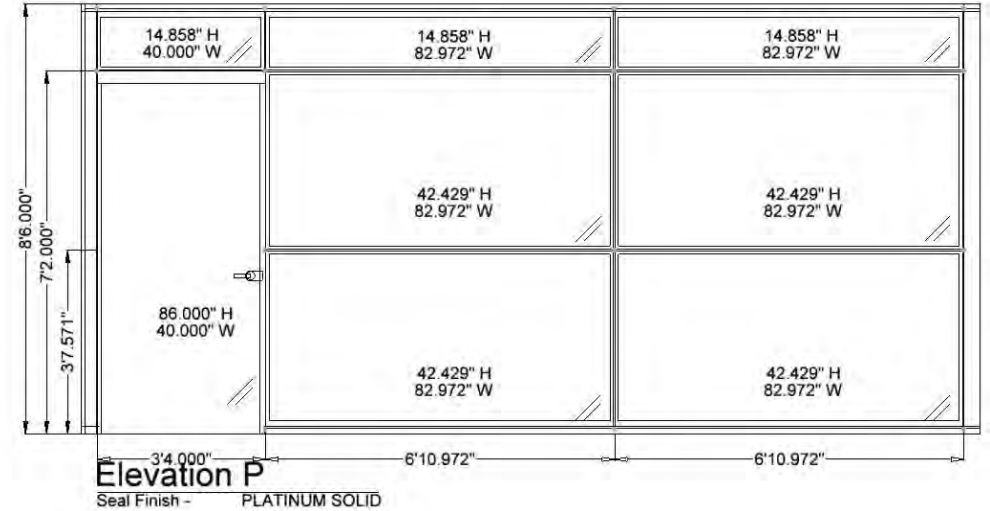
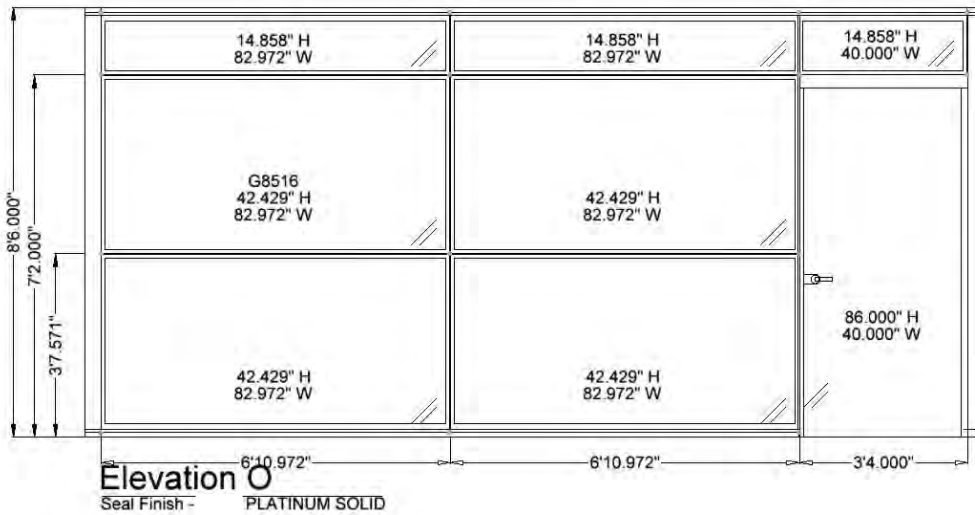
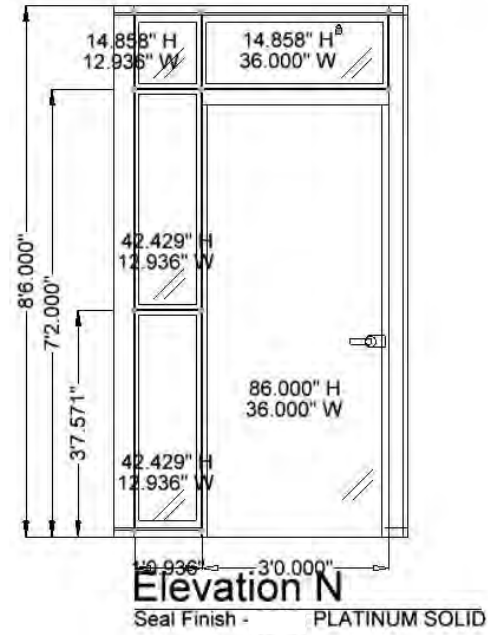
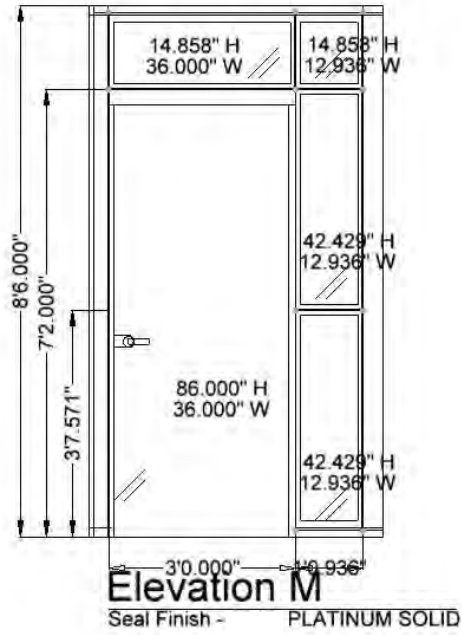
- Frame: Platinum Metallic
- Hardware: Polished Chrome
- Paint Finish: Platinum Solid
- Glass: Clear
- Glass Thickness: 1/4" for Single Pane Glass Locations, & 1/4" + 3/8" for Double Pane Locations
- Door Type: Full Glass Polished Edge
- Door Thickness: 1/2" Glass



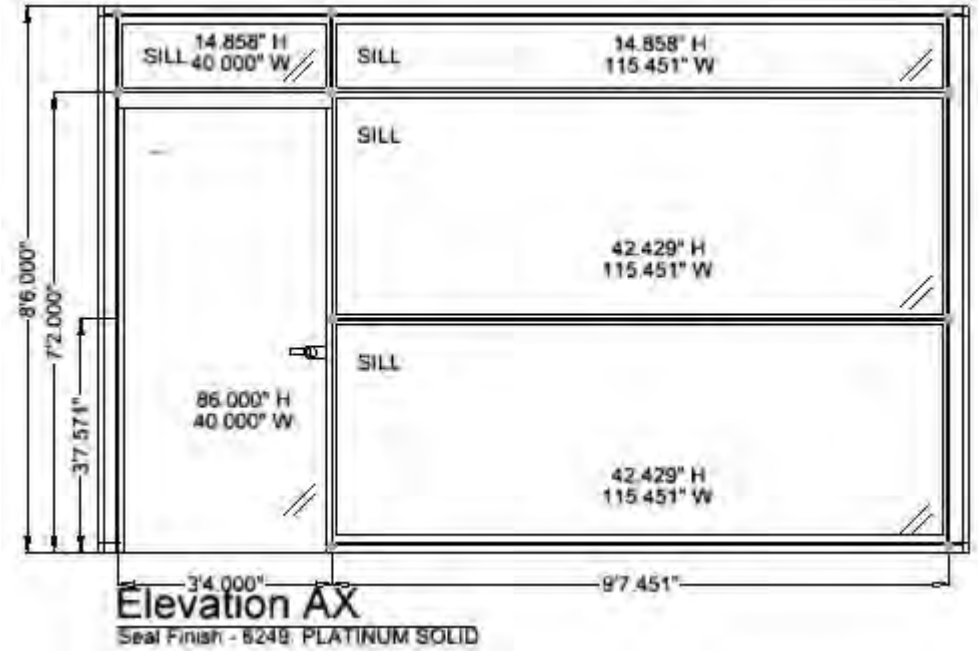
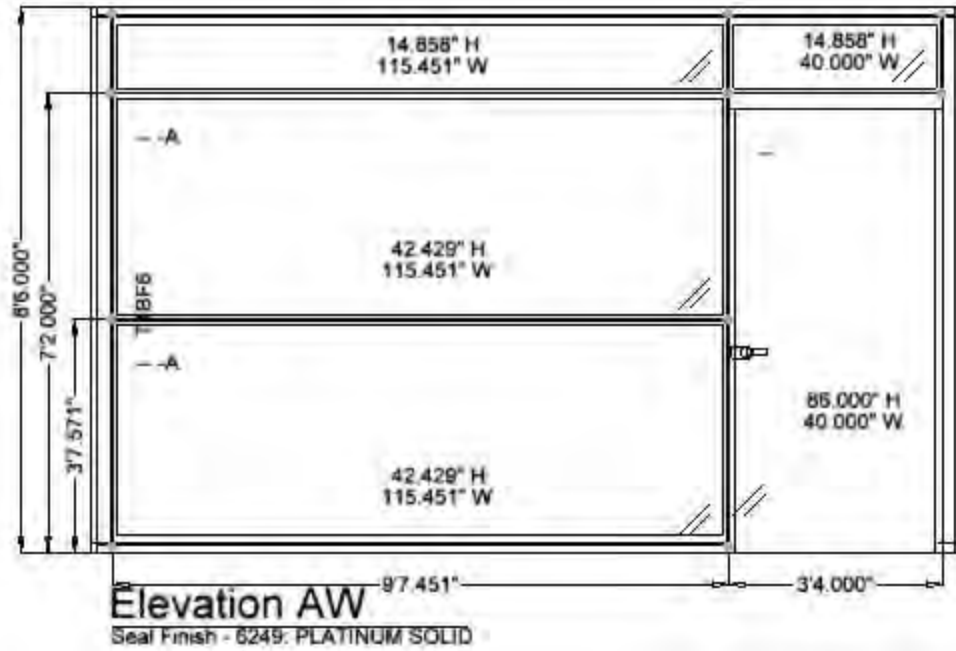
ADMIN BREAK ROOM 642
Front & Back View Provided



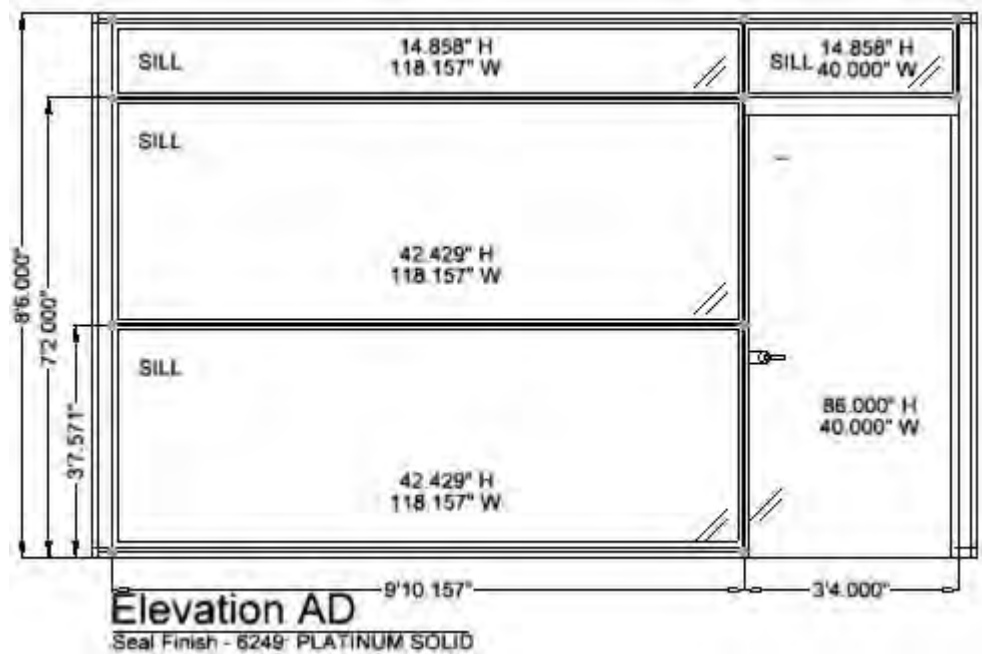
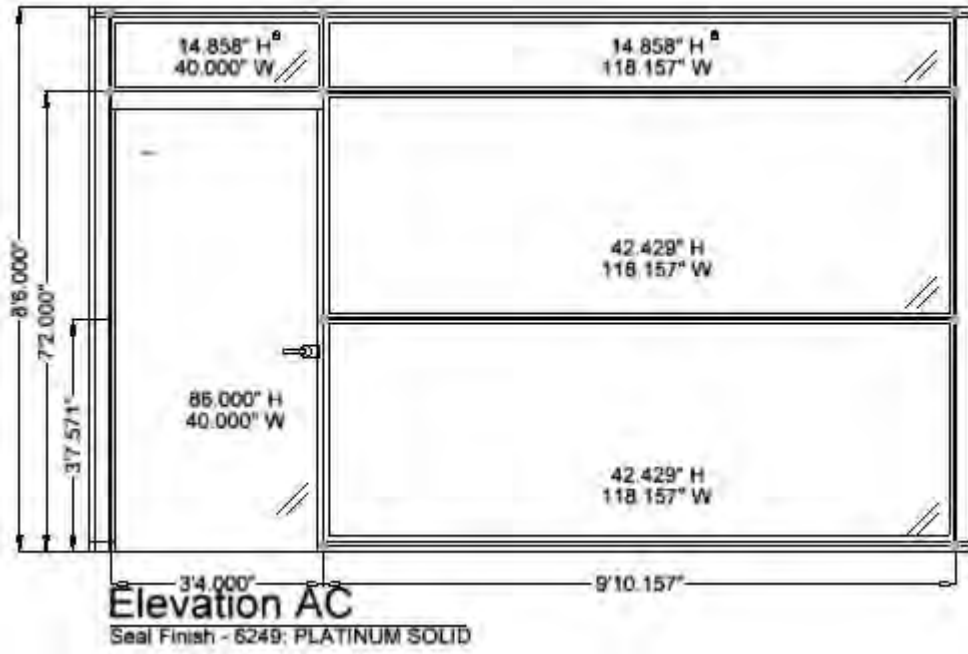
ADMIN CONFERENCE & LIBRARY 648
Front & Back View Provided



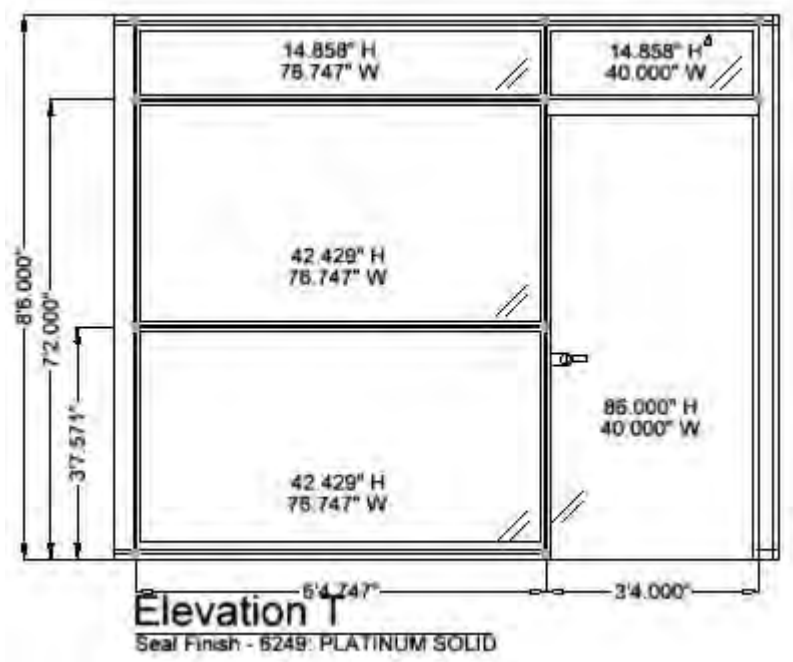
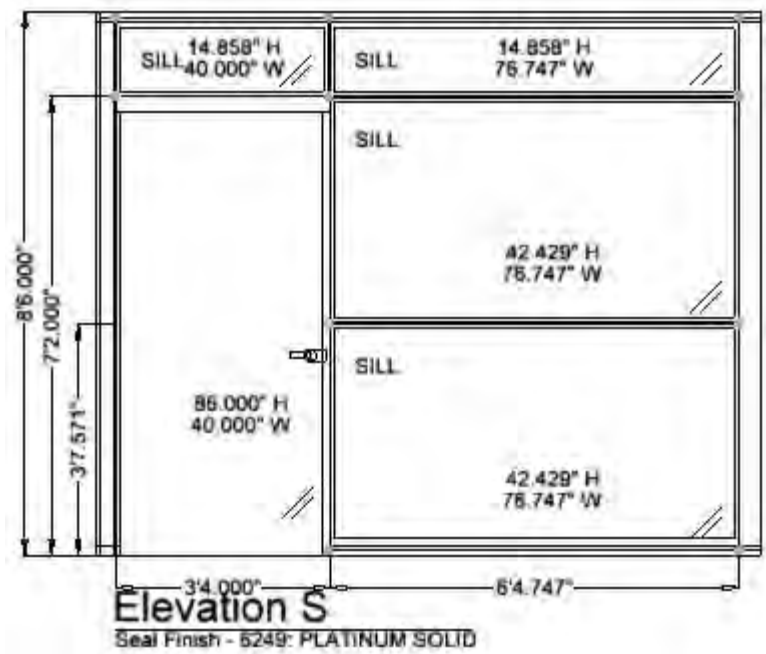
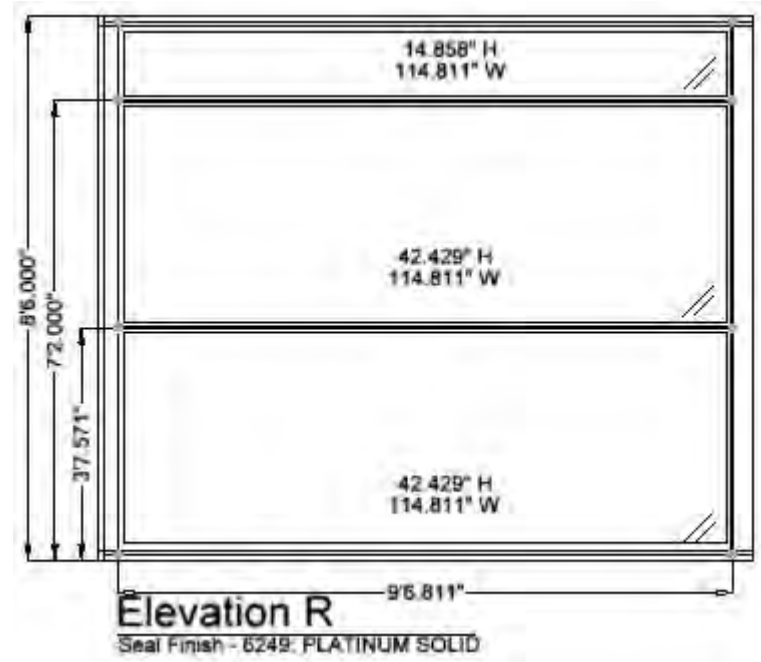
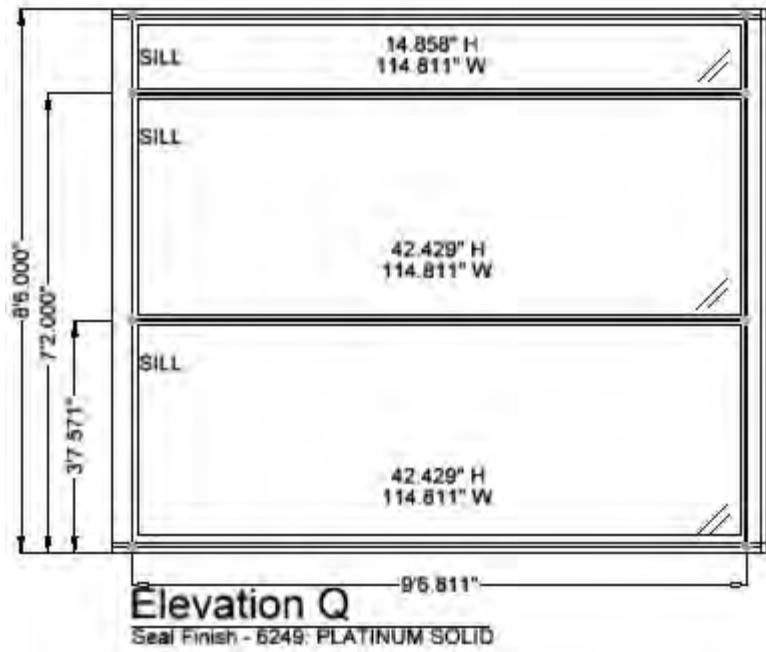
CONFERENCE 341
Front & Back View Provided



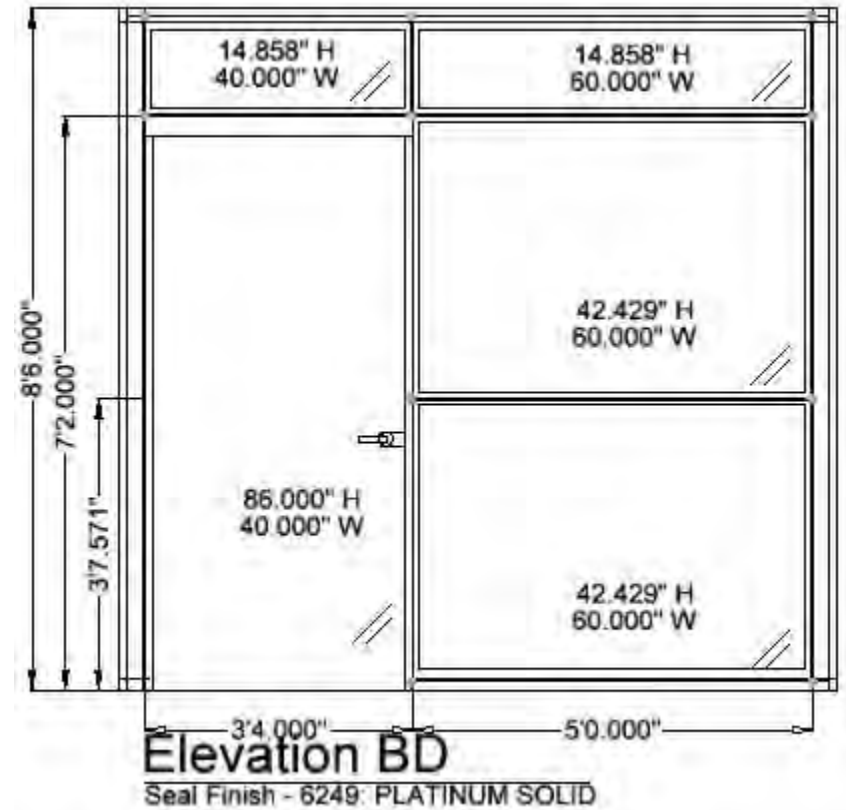
CONFERENCE 424
Front & Back View Provided



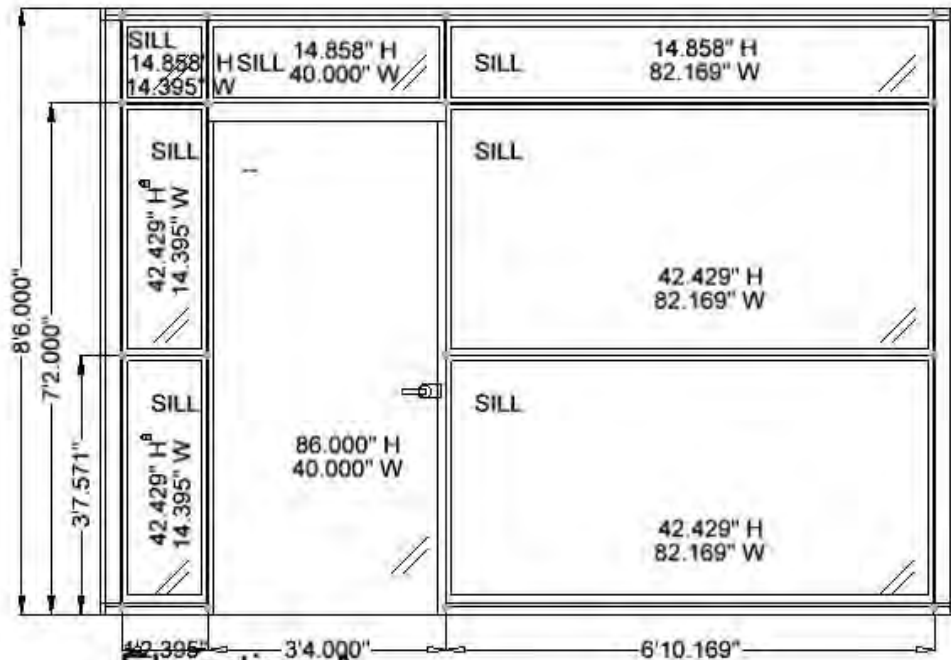
DSS ADMIN ASST 649
 Front & Back View Provided



DSS DIRECTOR OFFICE 612
Front & Back View Provided

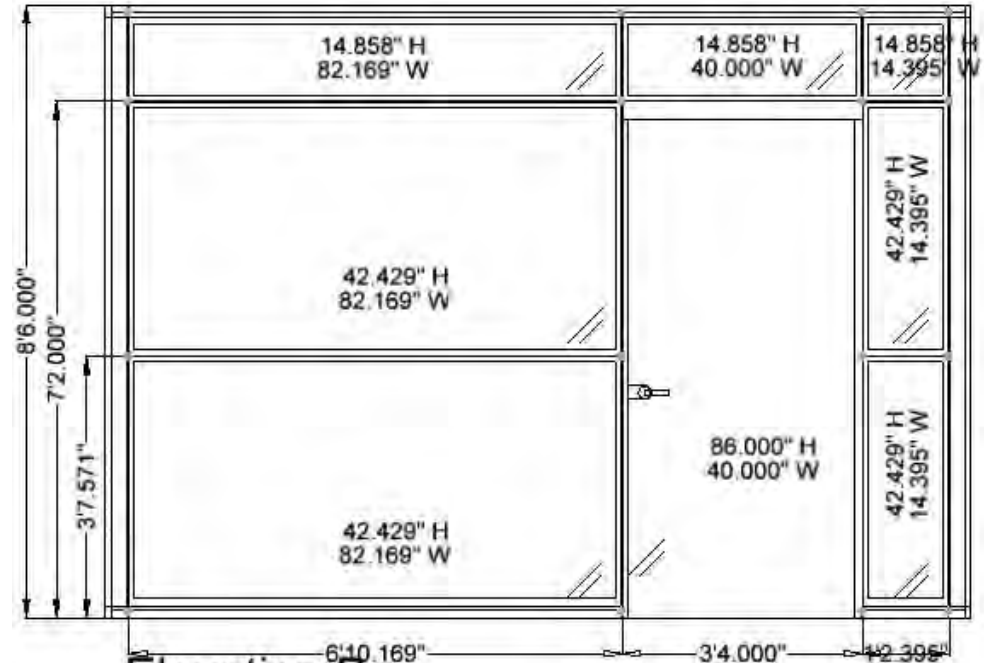


ECON SERVICES WAITING 700
Front & Back View Provided



Elevation A

Seal Finish - 6249: PLATINUM SOLID

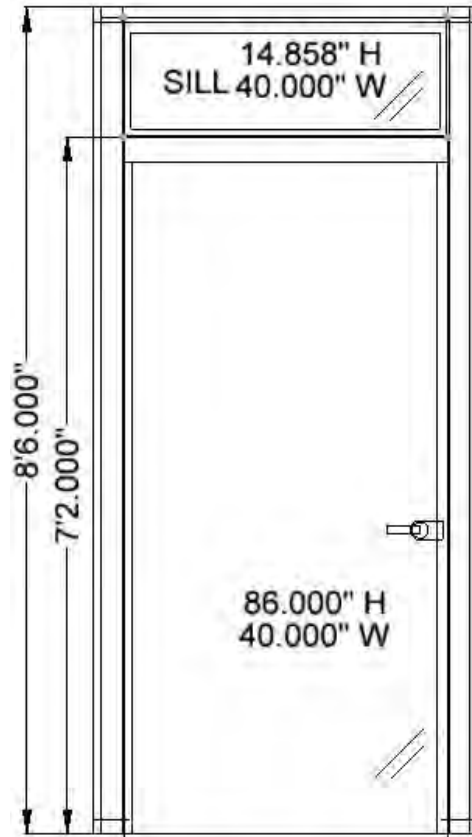


Elevation B

Seal Finish - 6249: PLATINUM SOLID

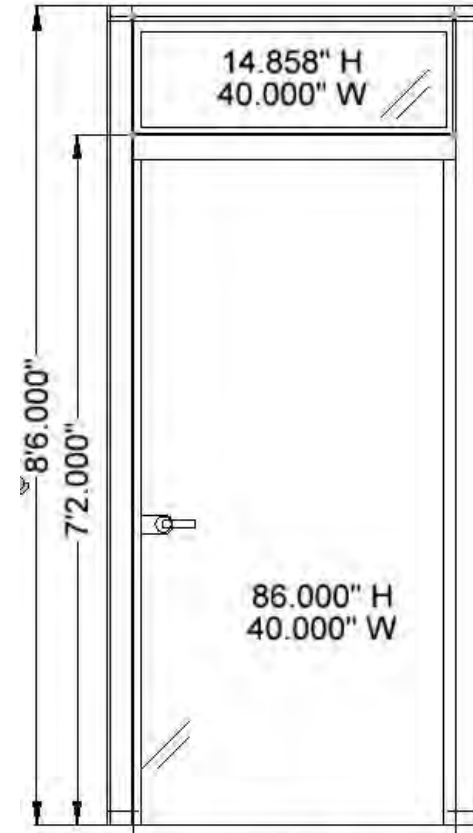
INTERVIEW 472

Front & Back View Provided



Elevation AC

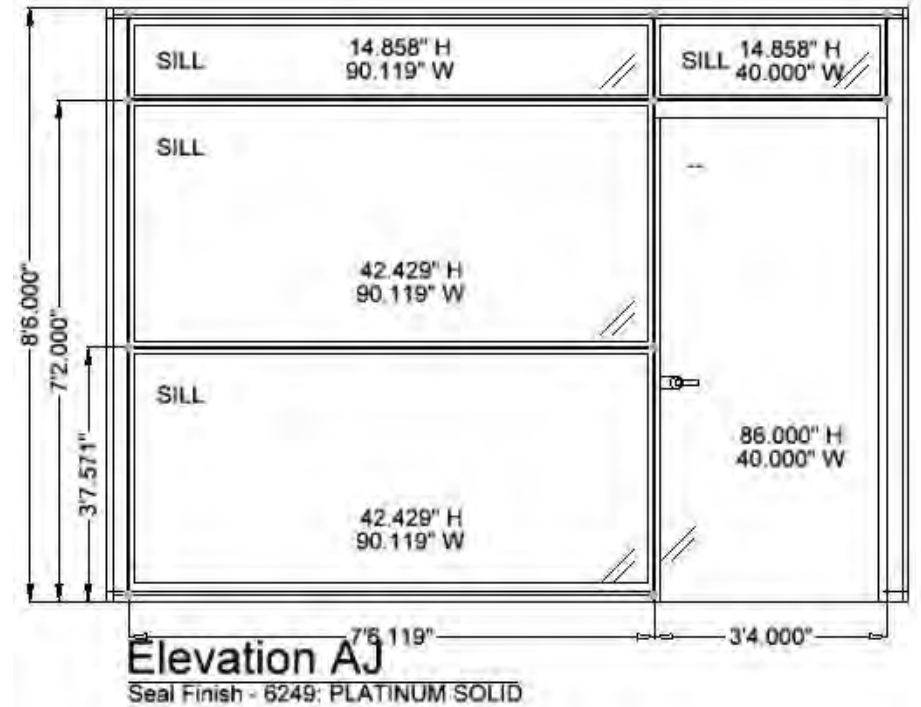
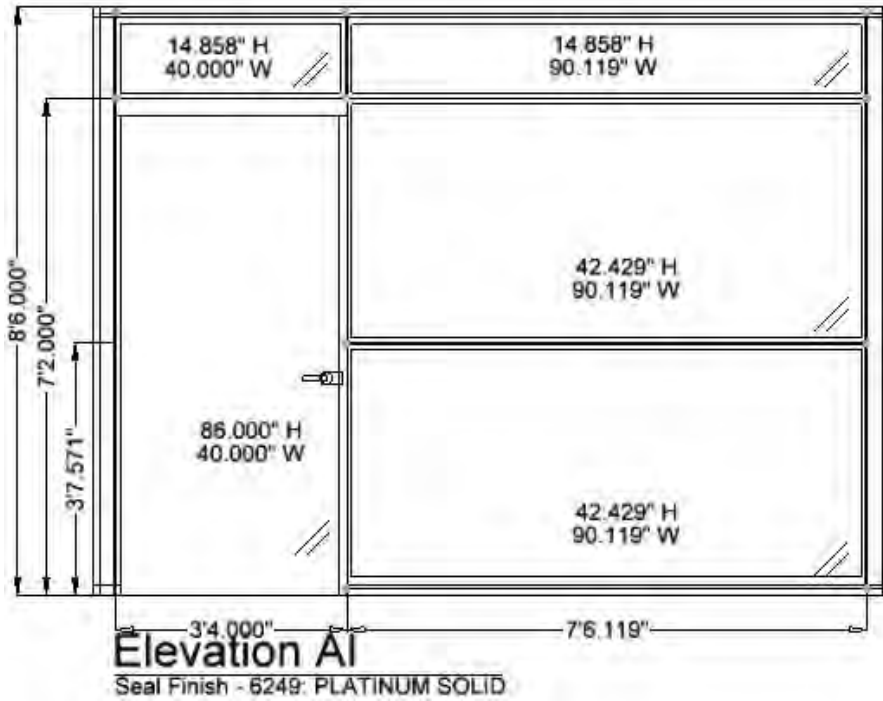
Seal Finish - 6249: PLATINUM SOLID



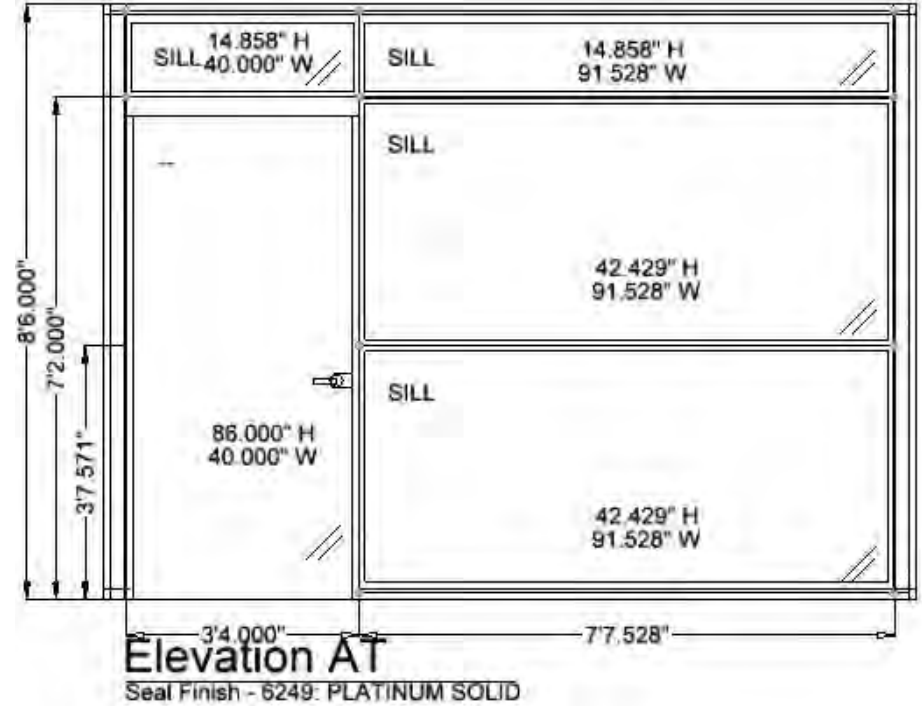
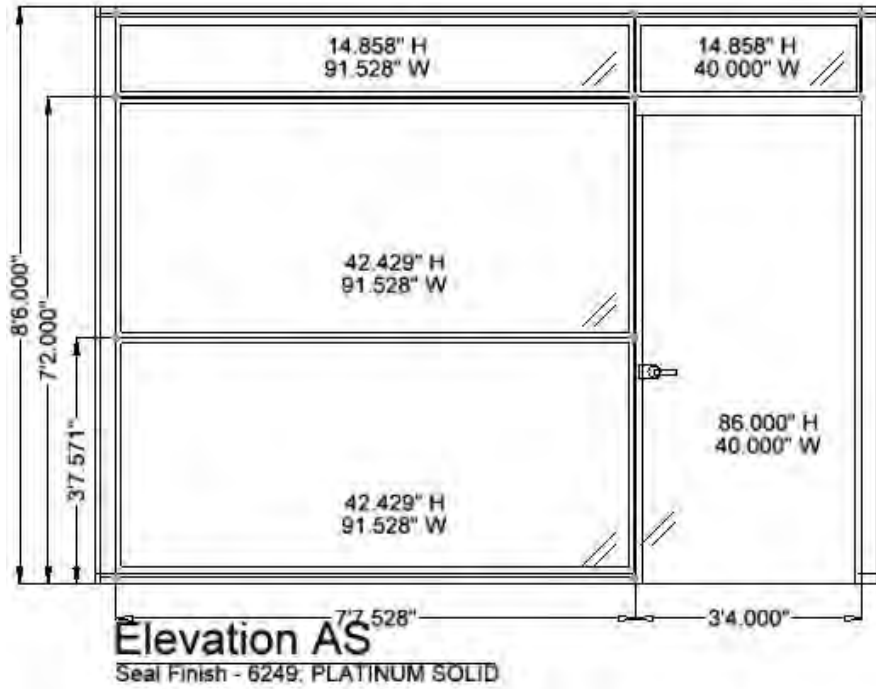
Elevation AD

Seal Finish - 6249: PLATINUM SOLID

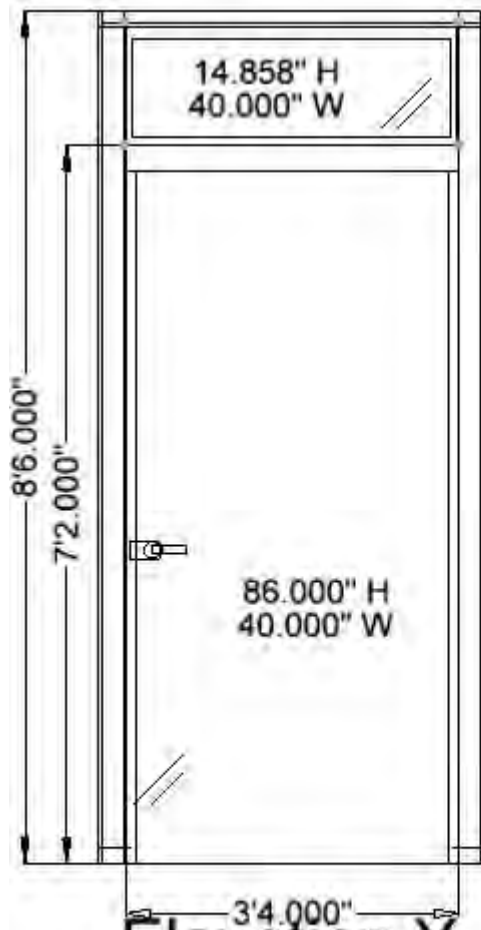
INTERVIEW 473
Front & Back View Provided



INTERVIEW 481
Front & Back View Provided

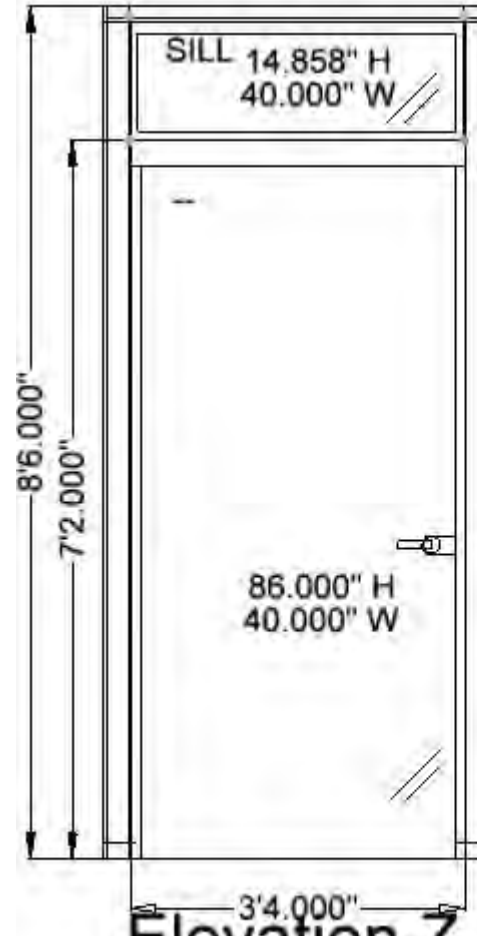


INTERVIEW 661A
Front & Back View Provided



Elevation Y

Seal Finish - 6249: PLATINUM SOLID
STC Performance - Seals and Insulation



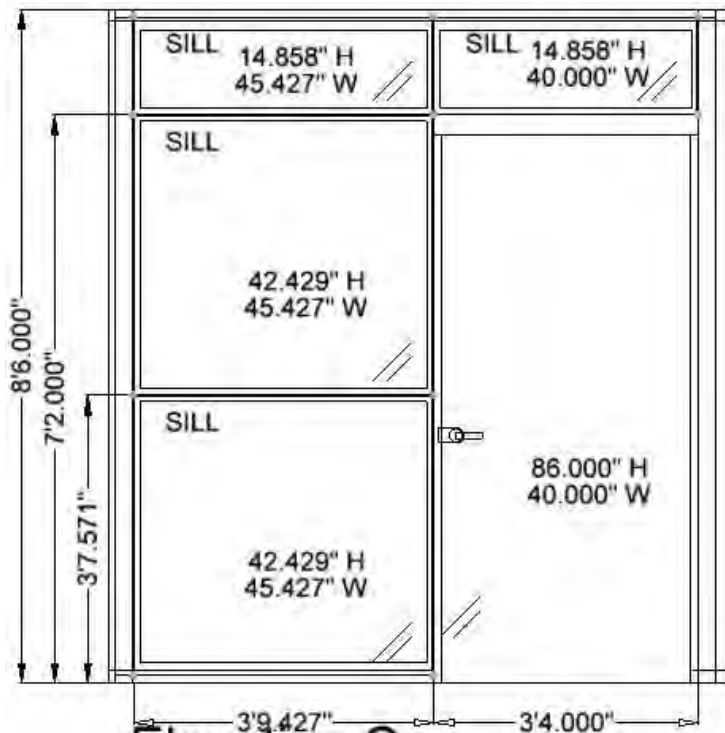
Elevation Z

Seal Finish - 6249: PLATINUM SOLID
STC Performance - Seals and Insulation

INTERVIEW 661B
Front & Back View Provided

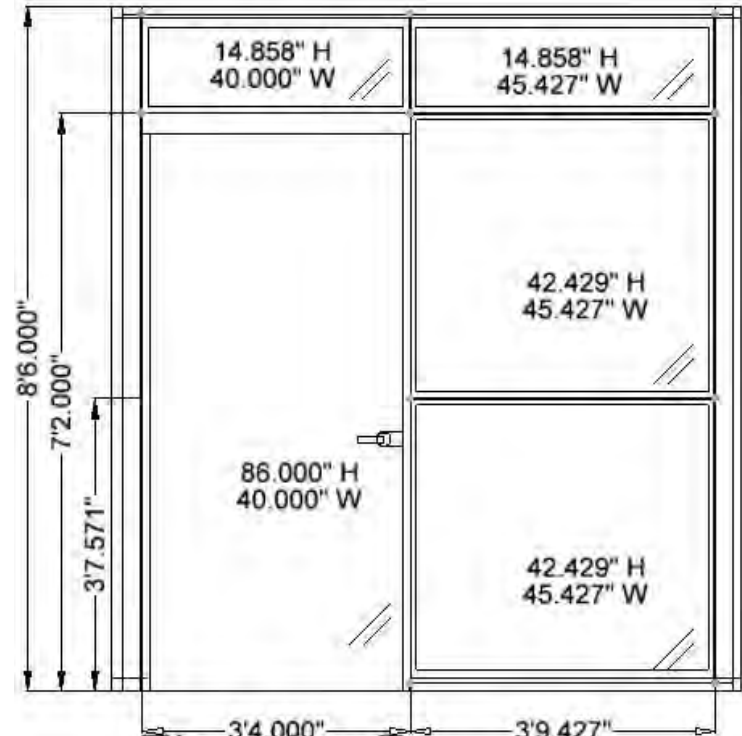


INTERVIEW 704A
Front & Back View Provided



Elevation Q

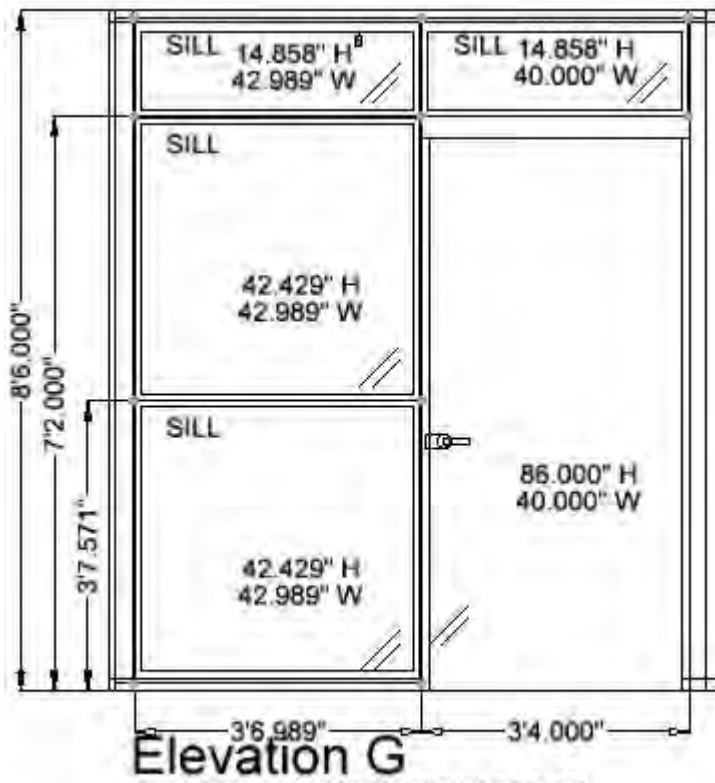
Seal Finish - 6249: PLATINUM SOLID
STC Performance - Seals and Insulation



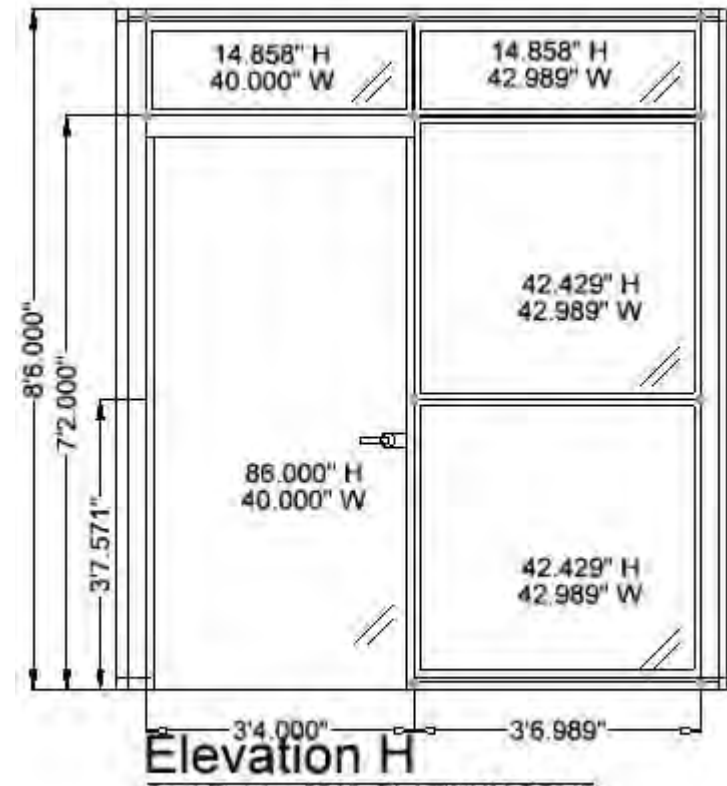
Elevation R

Seal Finish - 6249: PLATINUM SOLID
STC Performance - Seals and Insulation

INTERVIEW 704B
 Front & Back View Provided

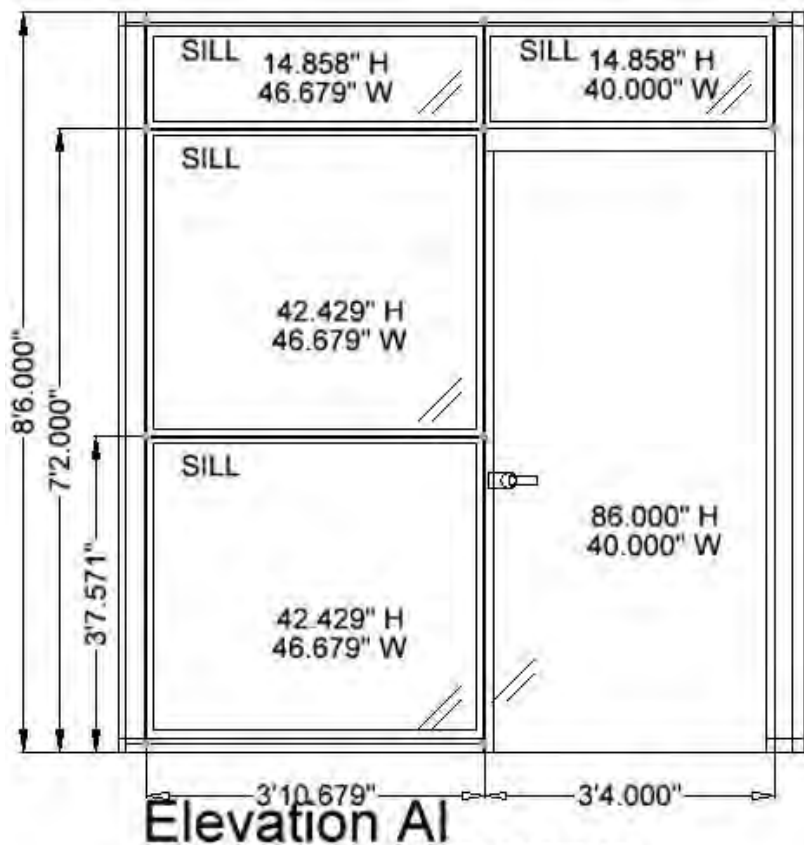


Seal Finish - 6249: PLATINUM SOLID
 STC Performance - Seals and Insulation

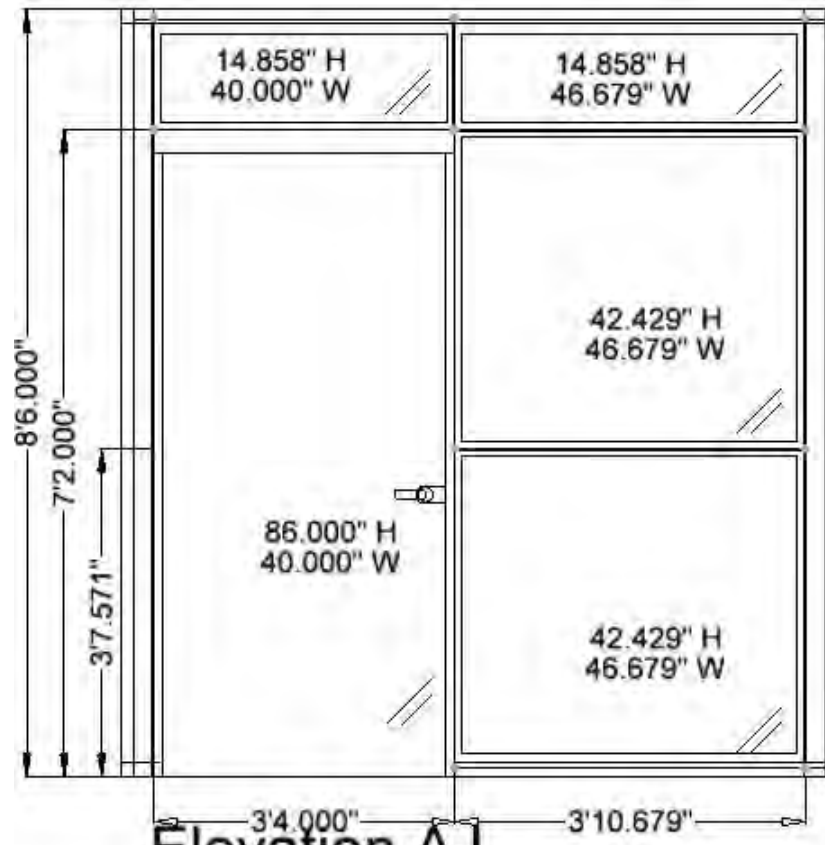


Seal Finish - 6249: PLATINUM SOLID
 STC Performance - Seals and Insulation

INTERVIEW 704C
Front & Back View Provided

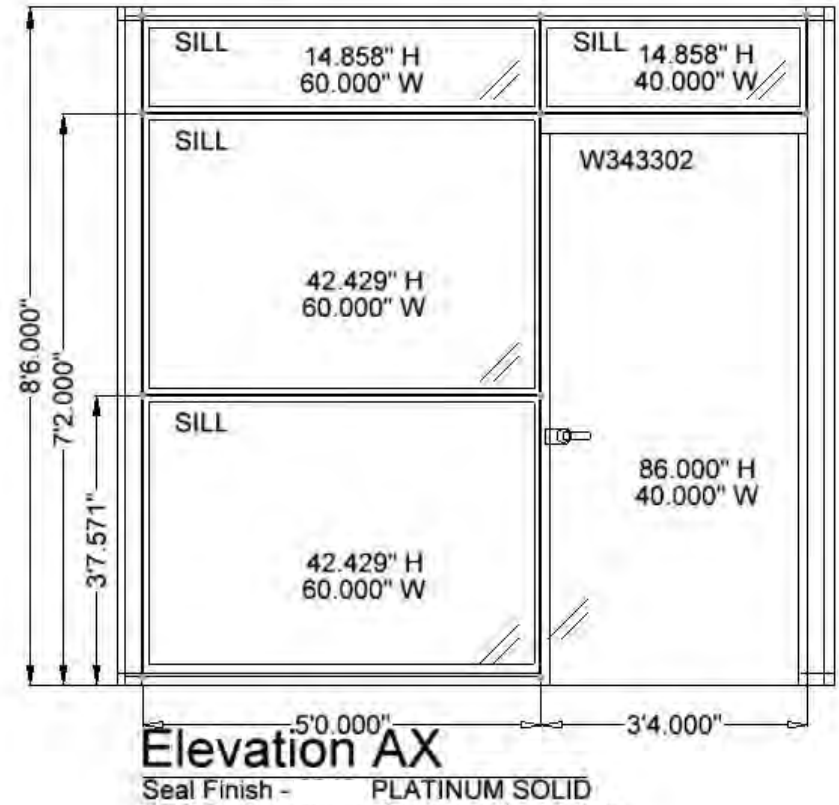
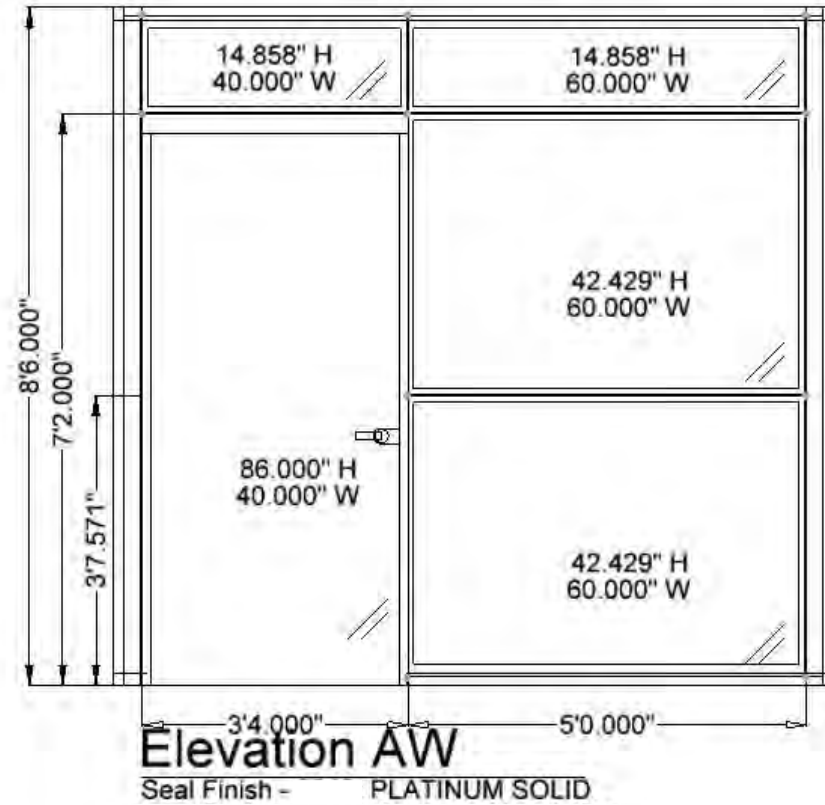


Seal Finish - 6249: PLATINUM SOLID
STC Performance - Seals and Insulation

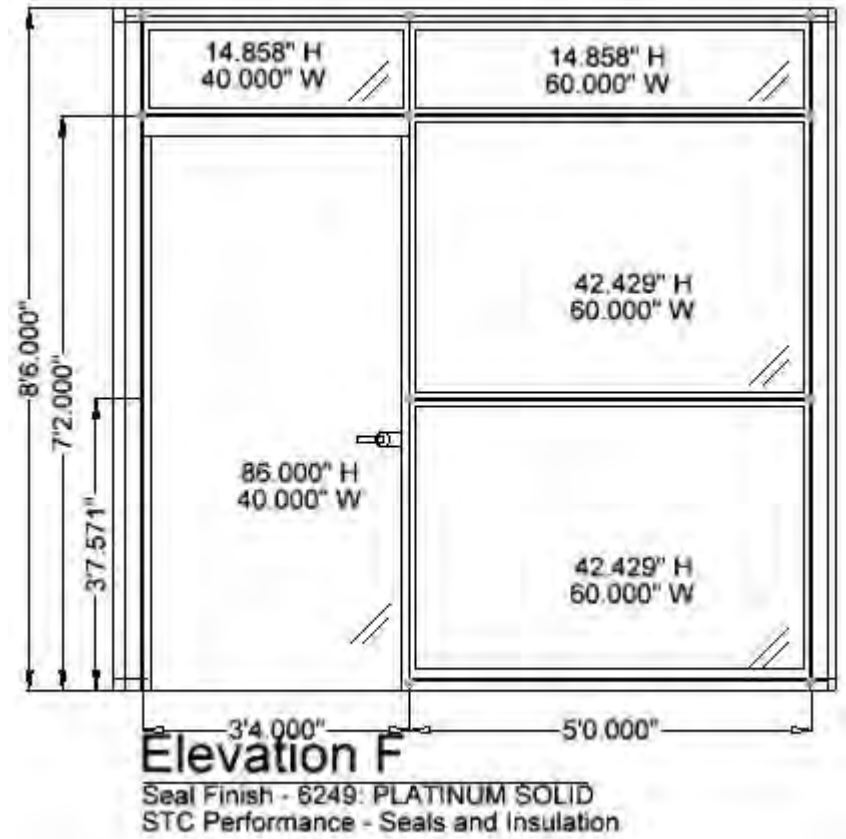
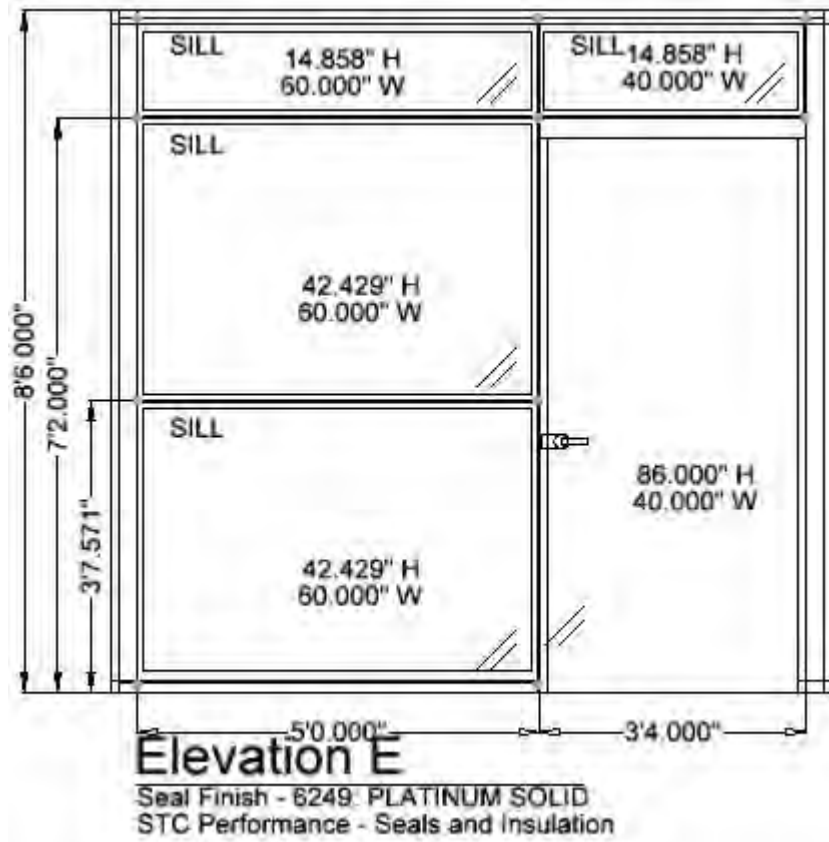


Seal Finish - 6249: PLATINUM SOLID
STC Performance - Seals and Insulation

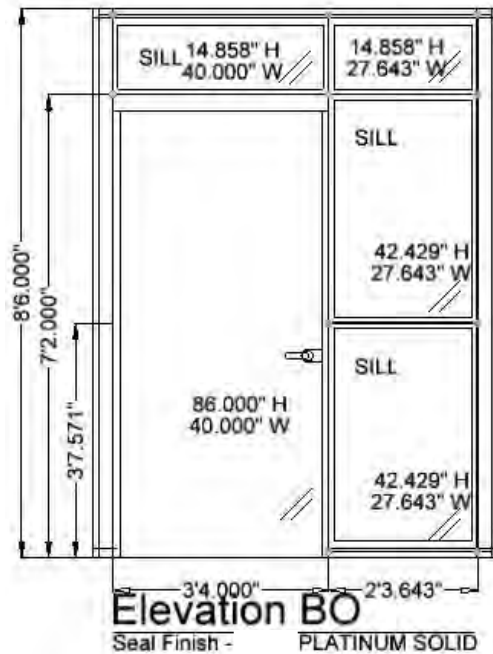
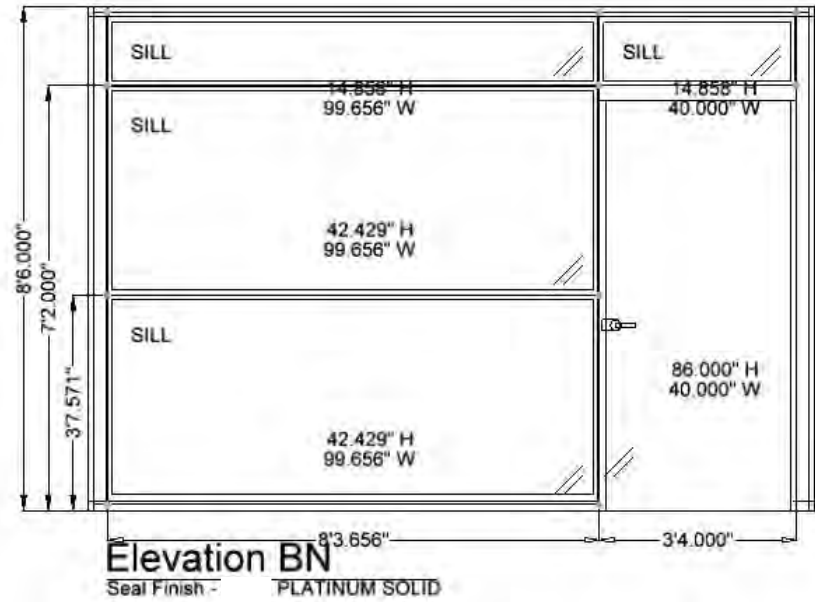
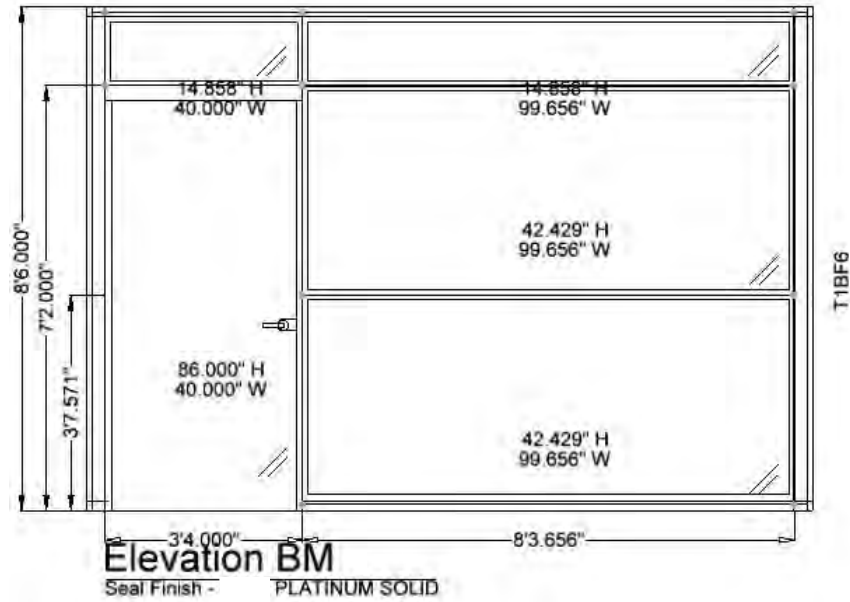
INTERVIEW 705A
Front & Back View Provided



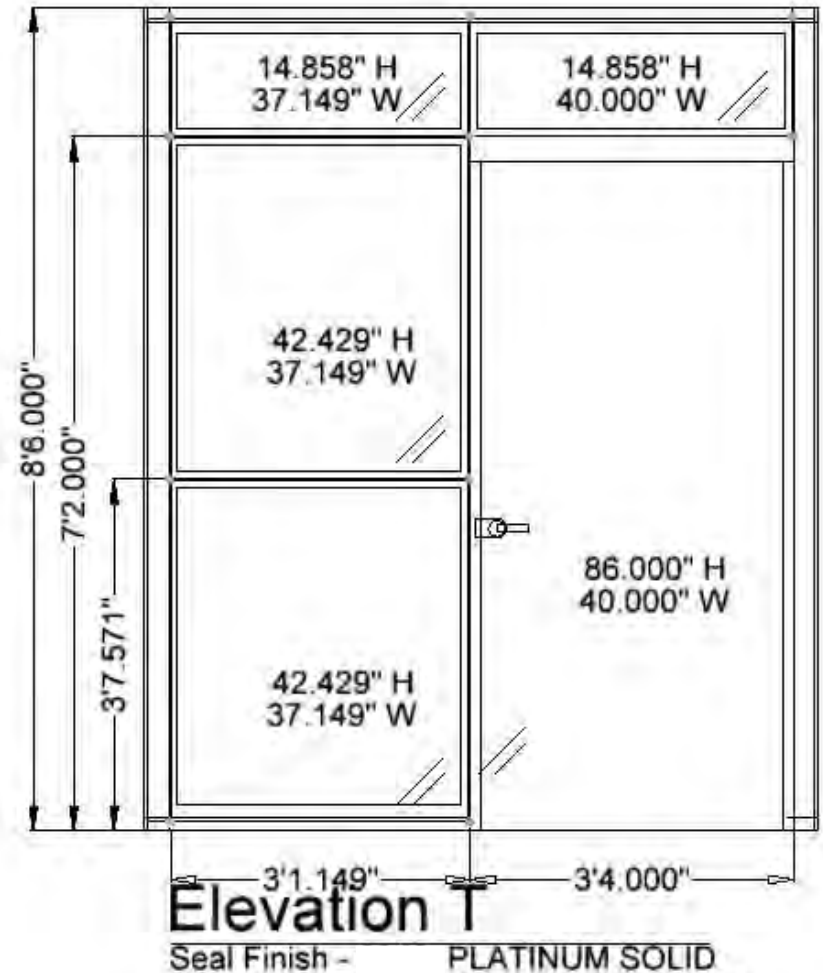
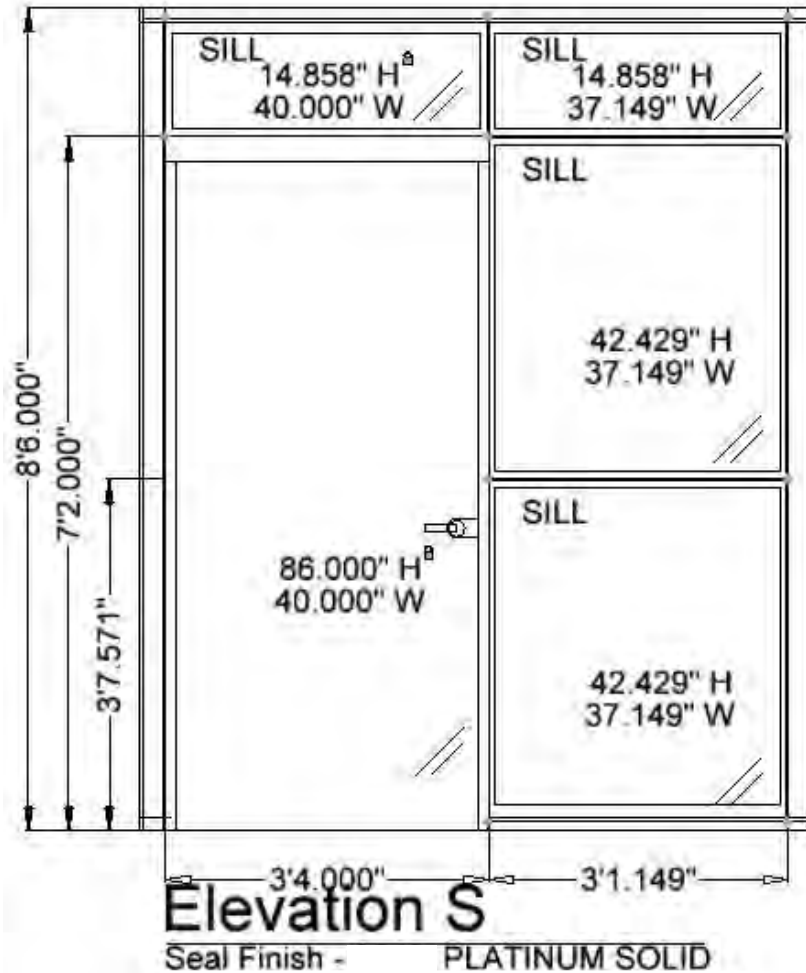
INTERVIEW 705B
Front & Back View Provided



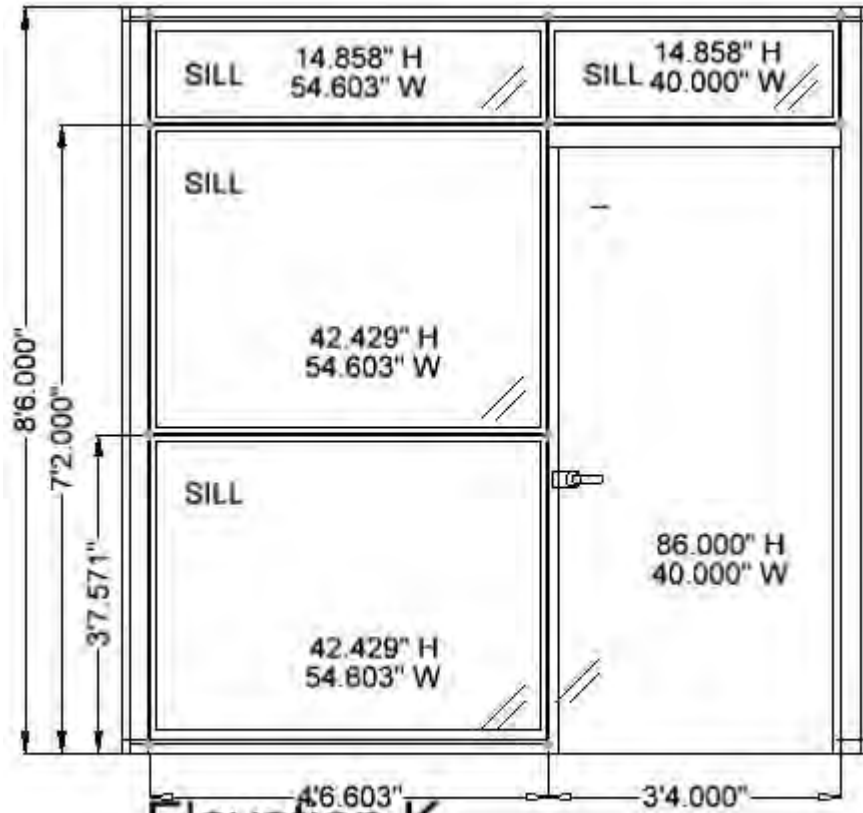
LARGE HUDDLE ROOM 672
Front & Back View Provided



LONG TERM TOUCHDOWN 415
Front & Back View Provided

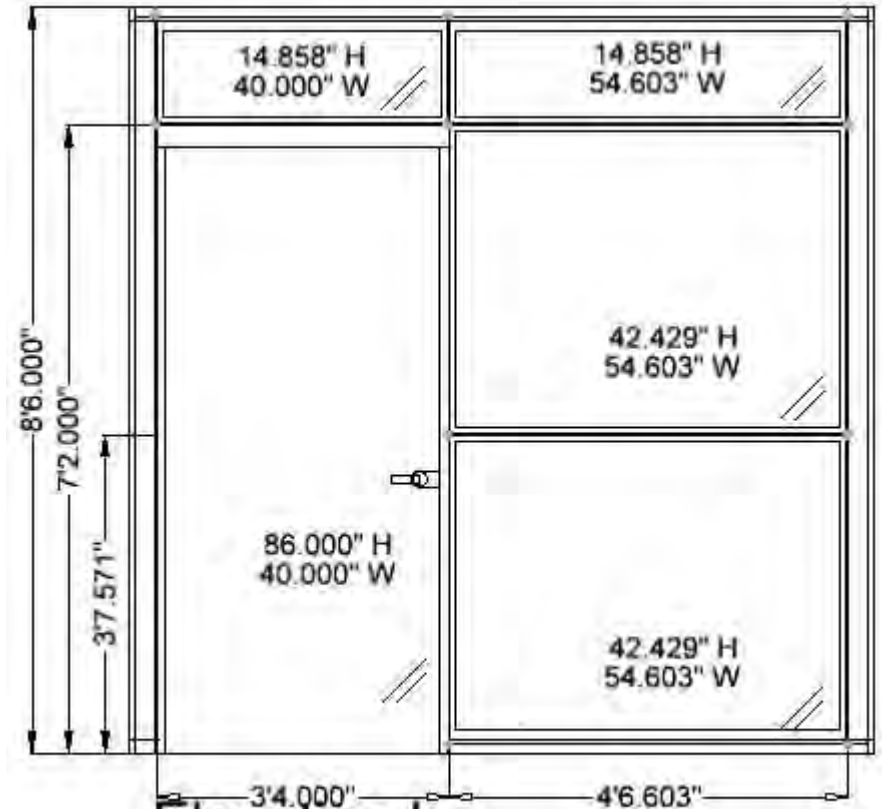


MEDIUM HUDDLE ROOM 673
Front & Back View Provided



Elevation K

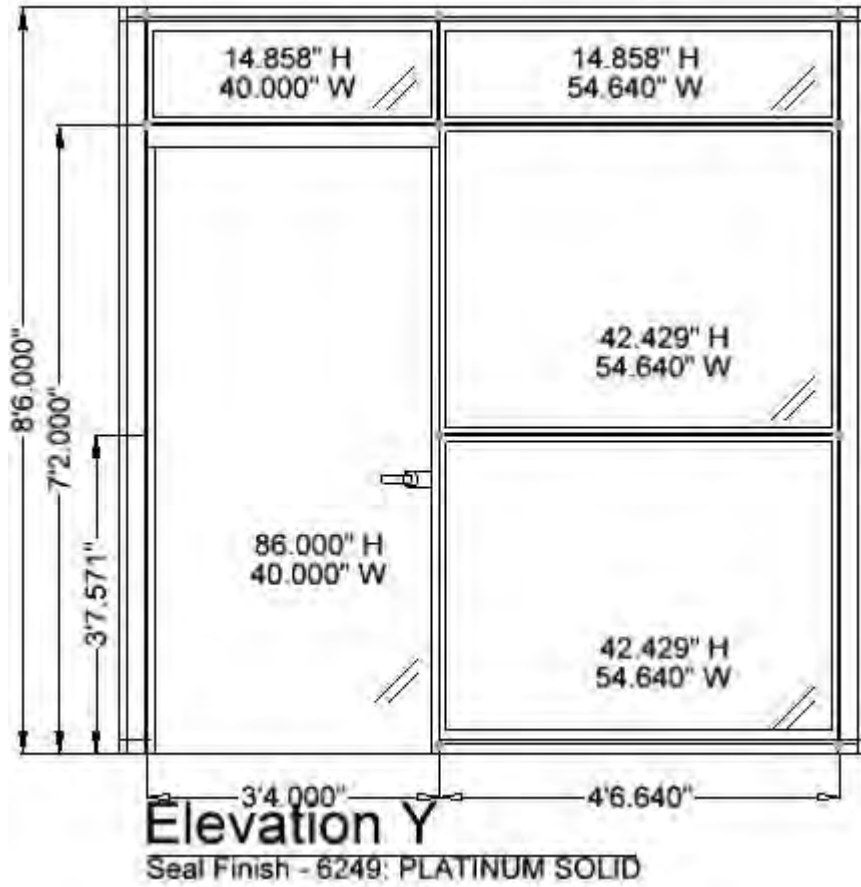
Seal Finish - 6249: PLATINUM SOLID



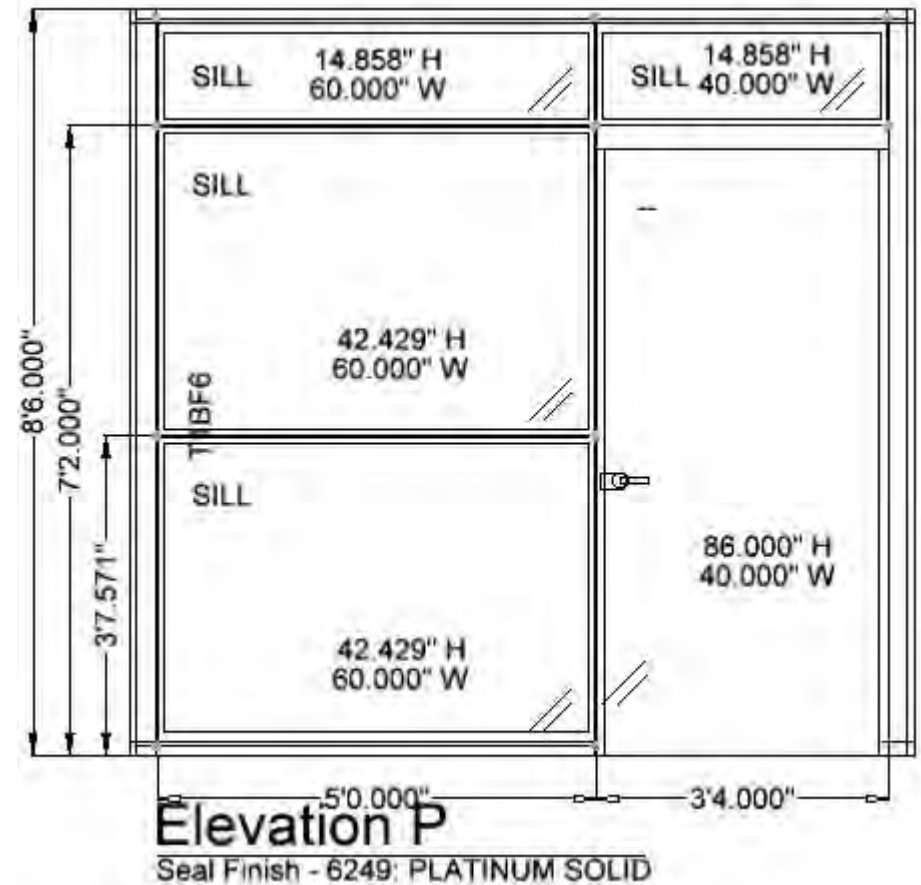
Elevation L

Seal Finish - 6249: PLATINUM SOLID

MEDIUM HUDDLE ROOM 674
Front & Back View Provided



MEETING ROOM 1 465
Front & Back View Provided



MEETING ROOM 2 466
Front & Back View Provided



Elevation BC

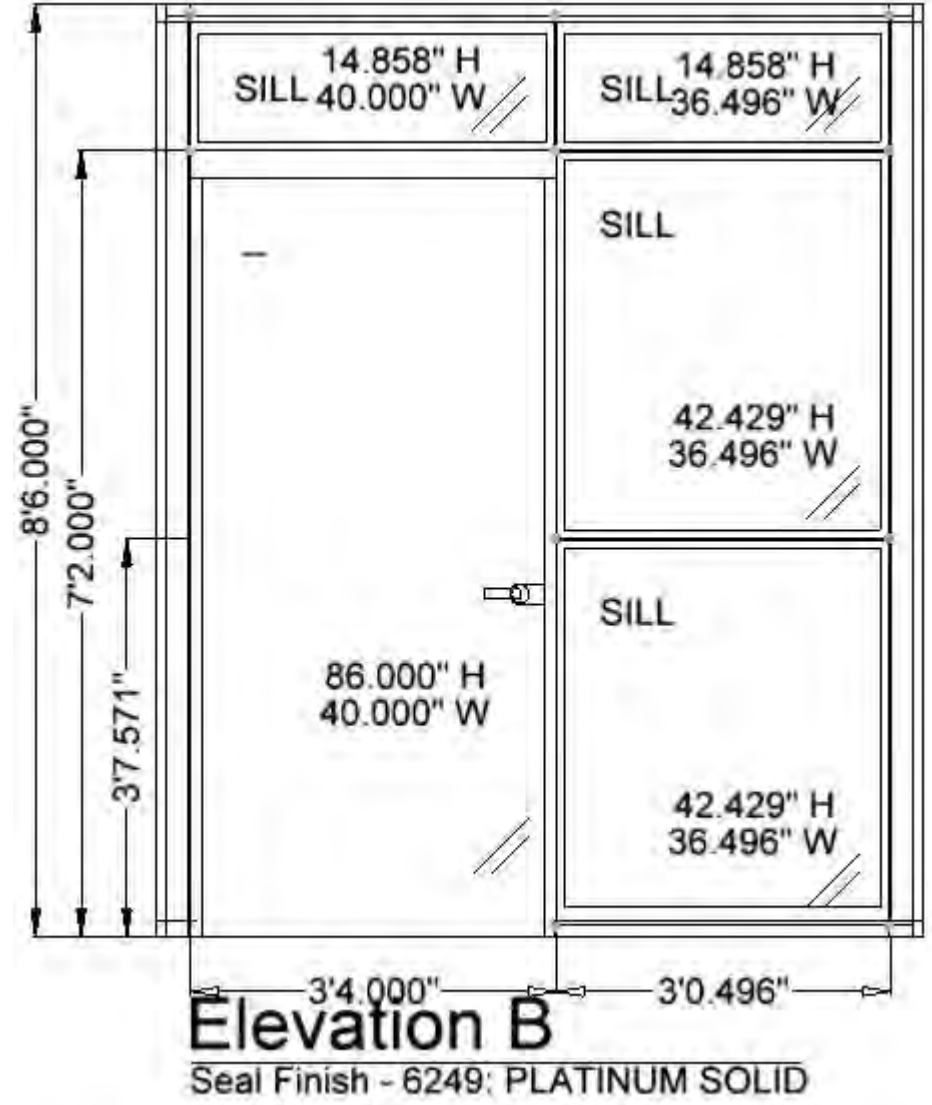
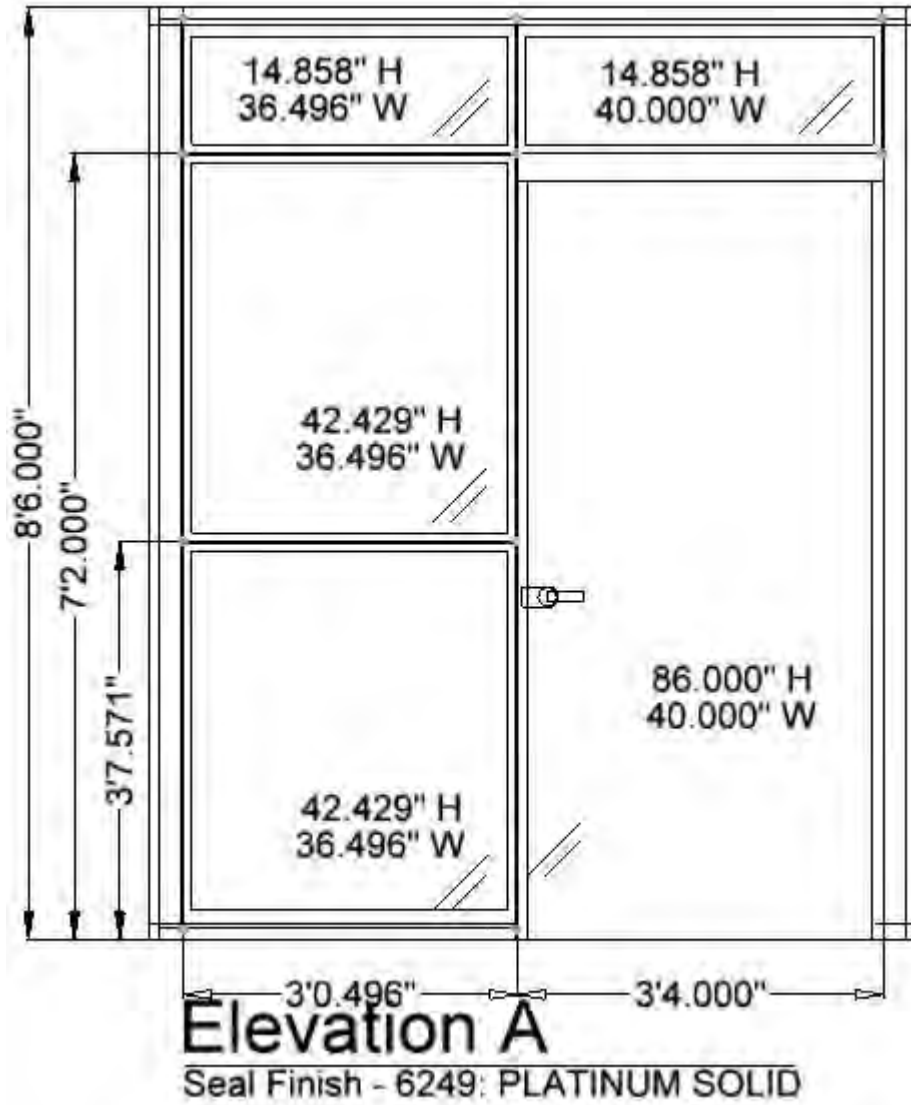
Seal Finish - 6249: PLATINUM SOLID



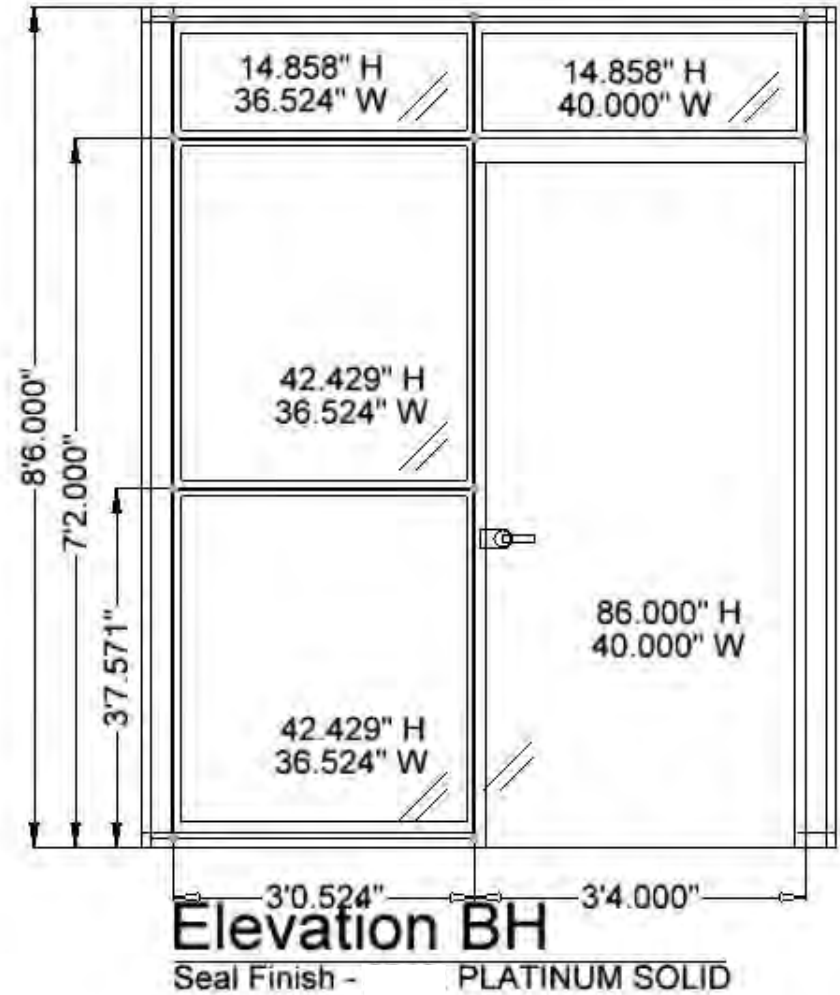
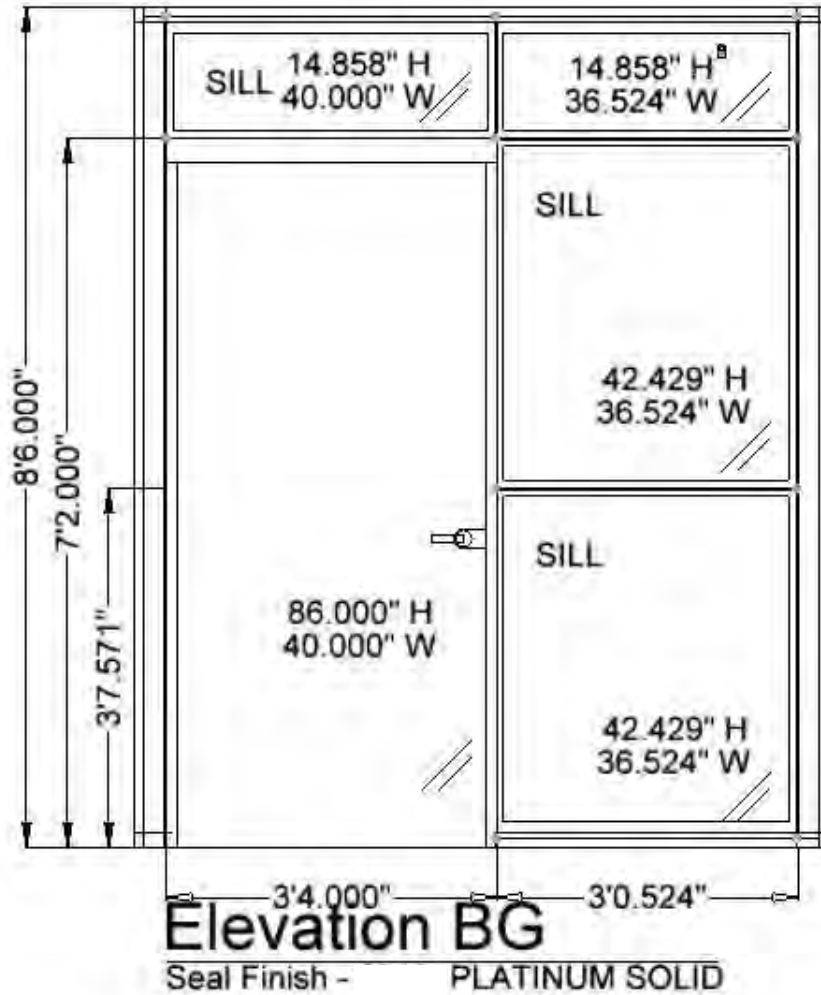
Elevation BD

Seal Finish - 6249: PLATINUM SOLID

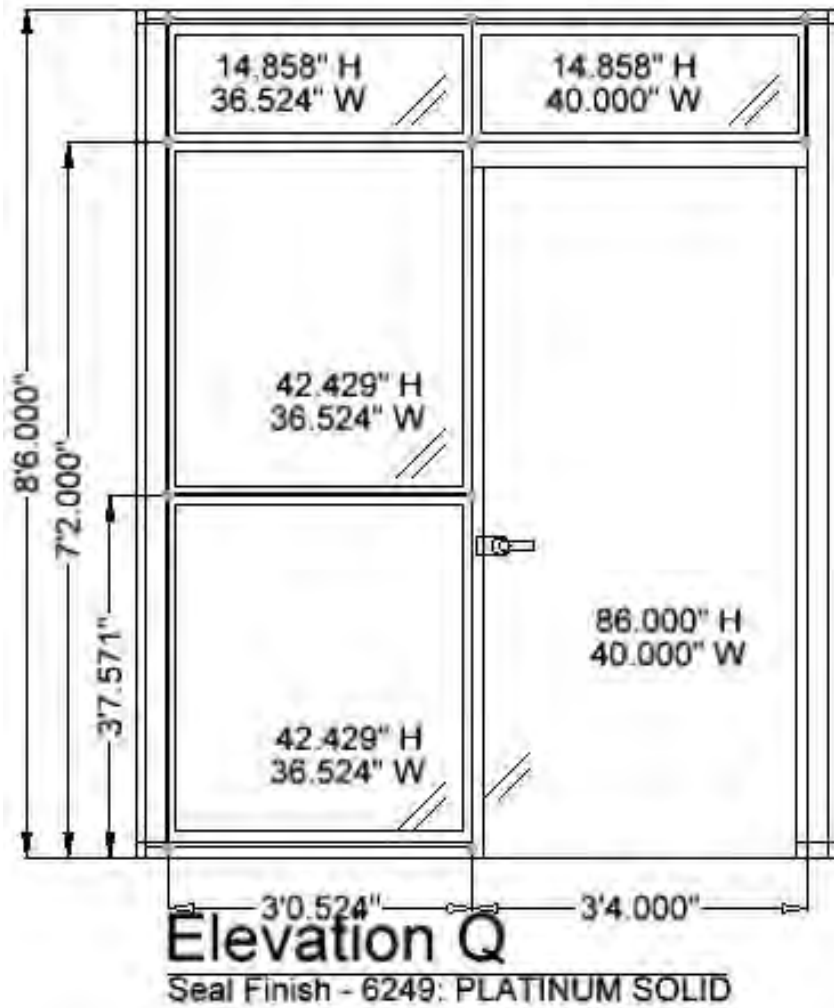
OFFICE 1
Front & Back View Provided



OFFICE 2
Front & Back View Provided



OFFICE 3
Front & Back View Provided



OFFICE 603 + OFFICE 604
Front & Back View Provided



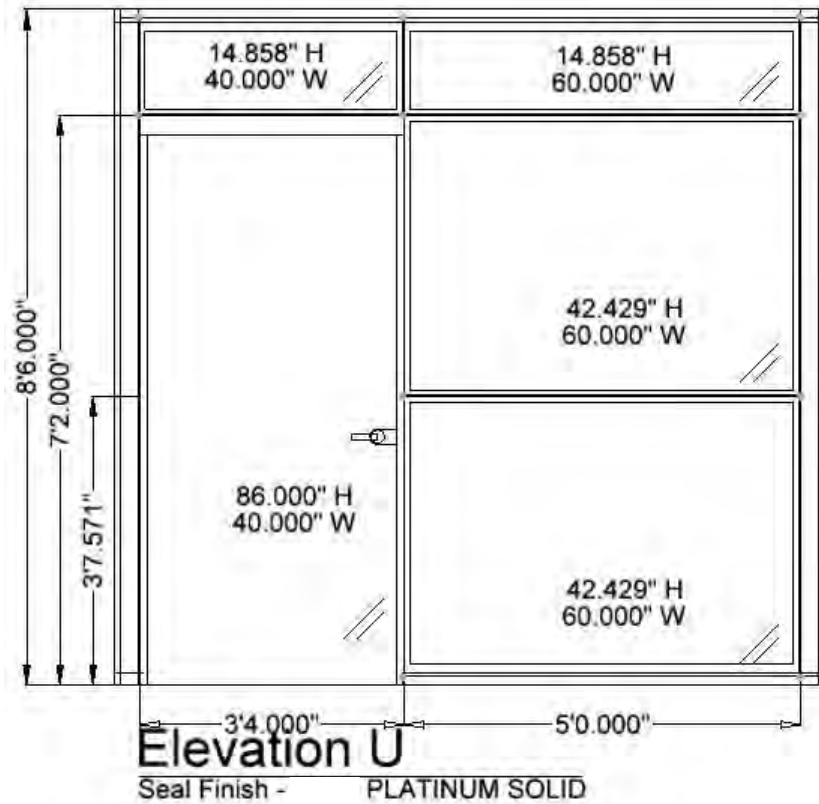
OFFICE 607
Front & Back View Provided



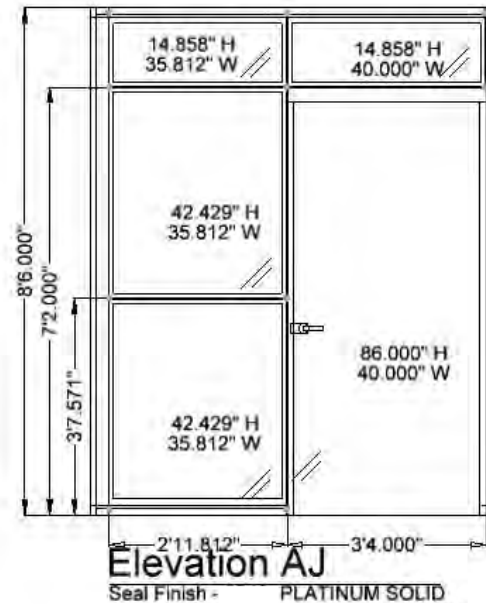
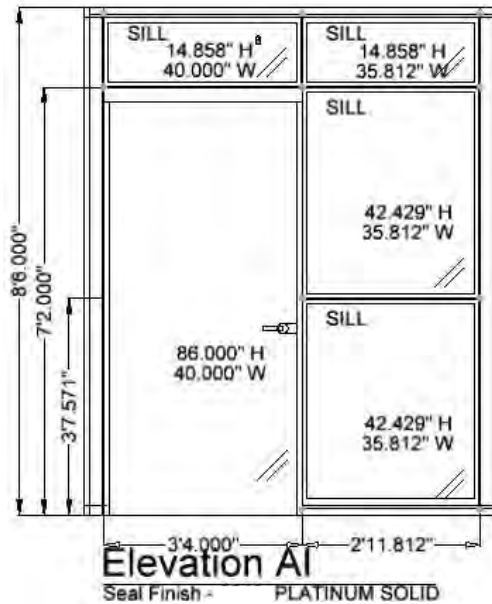
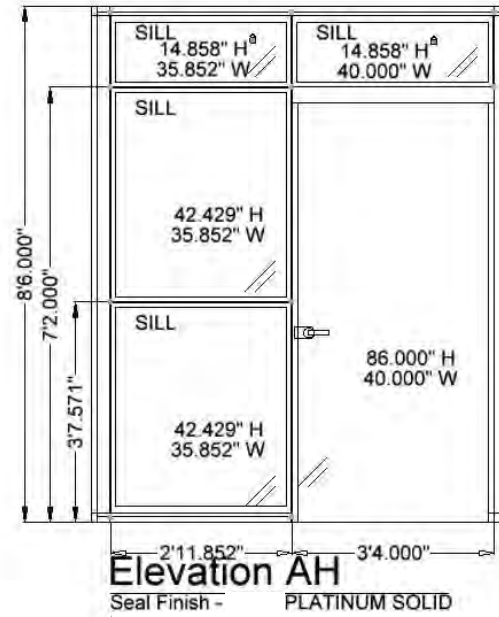
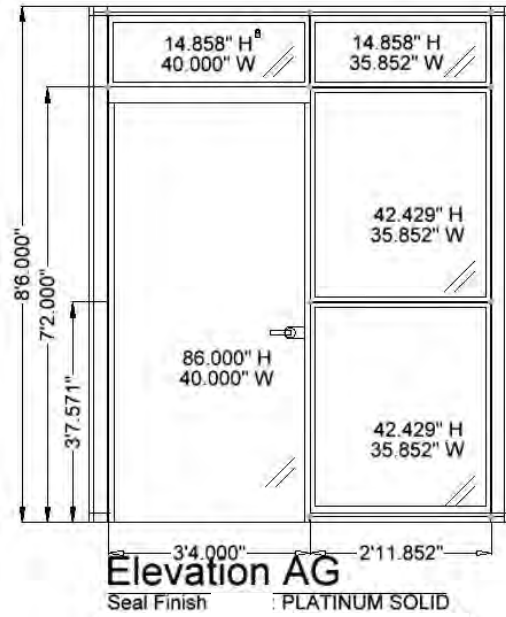
OFFICE 608
Front & Back View Provided



OFFICE 611
Front & Back View Provided

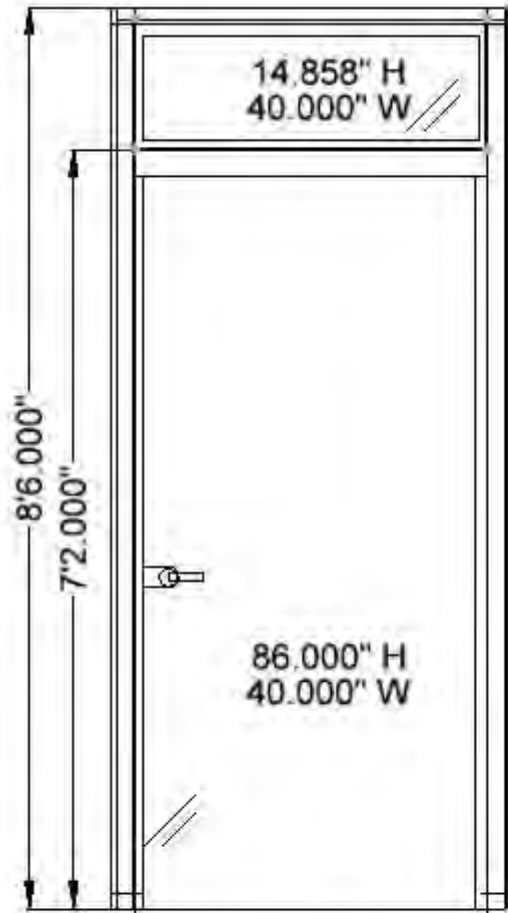


REMOTE TOUCH-DOWN AREA 416
Front & Back View Provided



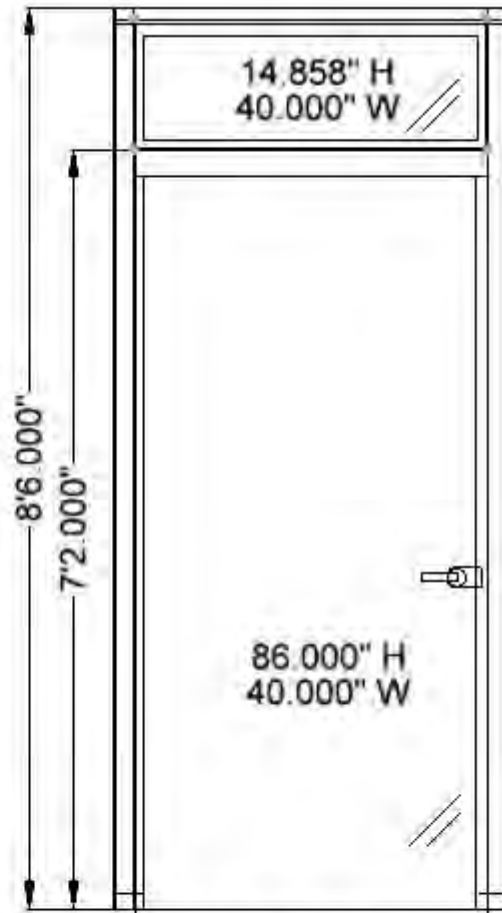
SM INTV 482

Front & Back View Provided



Elevation CA

Seal Finish - PLATINUM SOLID



Elevation CB

Seal Finish - PLATINUM SOLID



 **Office Environments**  **Steelcase®**

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SECTION 08 41 13

STEEL-FRAMED INTERIOR DOORS AND STOREFRONTS

Scope: Interior Glass Non-Load-Bearing Walls and Glass Doors

PART 1 GENERAL

1.0 QUOTATIONS FOR ALL PRODUCTS

All Proposers offering Products as part of this specification shall be on the current NC State Contract 420A and be listed as an approved Vendor under current Cleveland County Purchasing Standards.

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM E413	2016) Acoustic Ratings for Classification of Rating Sound Insulation
ASTM E90	(2016) Standard test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

INTERNATIONAL CODE COUNCIL (ICC)

ICC IBC	(2018) International Building Code
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1.2 ADMINISTRATIVE REQUIREMENTS

1.2.1 Pre-Installation Meetings

Conduct a meeting before installation begins to verify the project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.

Within forty-five (45) days of the Contract Award, submit the following for review and approval by the Contracting Officer:

- a. List of product installations
- b. Sample warranty
- c. Finish samples

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- d. Manufacturer's catalog data

1.3 SUBMITTALS

Submit the following:

SD-01 Preconstruction Submittals

Sample Warranty from Manufacturer proposed

SD-02 Shop Drawings

Installation Drawings, including rough opening requirements per the Basis of Design.

]

SD-03 Product Data

Manufacturer's Catalog Data

SD-04 Samples

Finish Samples including seals and inserts to be used.

1.4 QUALITY CONTROL

1.4.1 Qualifications

1.4.1.1 Installer Qualifications

Ensure that the installers are specialized in work similar to that required for this project, and that they are factory-trained by product manufacturer.

1.4.1.2 Manufacturer Qualifications

Ensure that manufacturers meet the requirements specified in this section and project drawings.

Ensure that the manufacturer is capable of providing field service representation during construction, approving acceptable installers and approving application methods.

1.4.2 Single-Source Responsibility

Use a single source manufacturer with sole responsibility for providing design, structural engineering, and custom fabrication for doors and framing, for supplying components, materials, and products. Do not use products provided from numerous sources for assembly at the site.

1.5 DELIVERY, STORAGE, AND HANDLING

1.5.1 Ordering

To avoid construction delays, comply with the manufacturer's lead-time requirements and instructions for ordering.

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1.5.2 Packing, Shipping, Handling and Unloading

Deliver materials in the manufacturer's original, unopened, undamaged containers with identification labels intact.

1.5.3 Storage and Protection

Store materials in a way that protects them from exposure to harmful weather conditions. Avoid damaging the framing material and components during handling. Protect storefront material against damage from elements, construction activities, and other hazards before, during, and after storefront installation.

Do not use adhesive papers or sprayed coatings that become firmly bonded when exposed to sunlight. Do not leave coating residue on surfaces.

1.6 PROJECT / SITE CONDITIONS

1.6.1 Field Measurements

Verify actual measurements or openings by taking field measurements before fabrication; record these measurements on shop drawings. To avoid construction delays, coordinate field measurements, and fabrication schedule with construction progress.

1.7 WARRANTY

Provide a written manufacturer's warranty, covering all parts and labor at no charge to the Owner, executed by a company official, warranting against defects as follows:

Framing products and components for lifetime from the date of Substantial Completion.

Hinged Doors for five (5) years from the date of Substantial Completion.

Warranty shall include provision for 24/7 application for service calls to the installing entity representing the Manufacturer.

1.8 TESTING

Provide written conformation of the following Acoustic Performance:

Walls which feature captured glass to have the following STC ratings:

Single-glazed in any configuration with 1/4" tempered glass on one (1) face: 30 STC

Double-glazed in any configuration with 1/4" tempered glass on one (1) face and 3/8" glass on the other face: 44 STC

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PART 2 PRODUCTS

2.1 SYSTEM DESCRIPTION

Provide primary wall components made up of slotted steel, smooth finish posts and horizontal steel framing members of min. 3.94" dimension, with matching floor and ceiling tracks, glass doors and glazing, door hardware, and components.

Basis of Design is Steelcase V.I.A (Vertical Intelligent Architecture) System utilizing system components to be assembled on site with individual components labeled clearly for identification.

2.1.1 Design Requirements

- a) Framing Depth: 100mm (3.94" D)
- b) Planning Height: per Elevations in the Basis of Design
- c) Planning Width: per Elevations in the Basis of Design
- d) Vertical and Horizontal Framing of 16-gauge cold-rolled steel

2.2 FABRICATION

Provide all components manufactured with internal slots to accommodate/interchange glass skins to solid skins utilizing the same framing structure.

Provide capability to change-out single and double-pane glass sections without replacing the framing components in the future.

Provide factory-cut pass-through holes 22mm (7/8") wide x 145mm (5-3/4") long for wires and cables. Horizontal members are to be offered with the same factory-cut openings.

Provide components shall have the ability to integrate technology embedded into the frames and change-out skins in the future without dismantling or having to purchase a new wall system.

Provide skin brackets with rigid steel and/or active locking mechanisms to prevent tampering or unintended removal of the skins.

Provide a complete installation system including base tracks, fixed 90-degree corner sections, continuous, one-piece ceiling tracks, and captured glass frames in keeping with the Basis of Design document.

Provide assemblies of superior fit and finish.

2.2.3 Finish

Shall be a consistent, factory-applied finish with manufacturer's required tolerance in the following:

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- a. Steelcase "Platinum Solid" per the Basis of Design document.

2.3 FRAMING DESCRIPTIONS

2.3.1 Slotted Vertical Posts: Shall be a factory-formed I-beam shape, formed of 16 ga. Sheet steel.

2.3.2 Horizontal Channels: Shall be used at ceiling and floor shall be factory-formed 16 ga. Sheet steel. Two polypropylene seals shall be assembled to the channel.

2.4 GLASS DOORS

Provide single reversible-swing door frames per the Basis of Design document.

2.4.1 Glass Door dimensions:

- a) Sizes as prescribed in Basis of Design Elevations.
- b) Tempered Glass Thickness: 12mm (1/2") Beveled Safety Glass
- c) Polished Edge Glass at all Doors

2.4.2 Acoustical Drop Seals

Provide a door drop seal for maximum acoustic privacy at all doors where double-glazed walls are scheduled.

2.4.3 Standard Entrance Hardware

2.4.3.1 Locking and Latching:

Provide cylindrical passage sets as part of the Basis of Design. Handles, pulls, locksets and other operating devices on doors shall have a shape that is easy to grasp with one hand and will not require tight grasping, tight pinching, or twisting of the wrist per ADA Accessibility Guidelines.

At hinged door locations, a threshold is not required.

At door locations indicated, frame shall maintain a consistent 1/2" undercut.

Provide strike plates to accommodate several Contract Hardware manufacturers as required by the Owner's lockset system (Sargent, Schlage, Yale, or Corbin)

Keying will be designated by Owner.

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PART 3 EXECUTION

3.1 EXAMINATION

3.1.1 Site Verification of Conditions

Verify that the condition of substrate previously installed under other sections is acceptable for product installation in accordance with the manufacturer's instructions.

Verify that openings are sized to receive the storefront system and that the floor surfaces are level in accordance with the manufacturer's acceptable tolerances.

3.2 PREPARATION

Field-verify dimensions with the Contractor as all locations where these components will be installed will be finished and wrapped in drywall prior to installation.

3.2.1 Adjacent Surfaces Protection

Protect adjacent work areas and finish surfaces from damage during product installation.

3.3 INSTALLATION

Install Steel-framed Interior Doors and Storefronts in accordance with the manufacturer's instructions. Attach the system to the wall framing at each framed opening, allowing it to be adjusted to accommodate construction tolerances and other irregularities.

Align the assembly so that it is plumb and level, and free of warp and twist. Maintain assembly dimensional tolerances aligning with adjacent work.

Wall frames and door frames at designated openings are provided knocked-down (KD) and are assembled on site with common tools.

Set all glass components in keeping with the Basis of Design and the Manufacturer's installation diagrams. Maintain all tolerances and install all seals in clean, neat lines.

3.3.2 Adjusting

Adjust operating hardware for smooth operation, and as recommended by the manufacturer.

3.5 ADJUSTING AND CLEANING

3.5.1 Protection

Protect the installed product's finish surfaces from damage during construction. Protect the steel-framed storefront system from damage from

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grinding and polishing compounds, plaster, lime, acid, cement, or other harmful contaminants.

3.5.2 Cleaning

Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions before acceptance remove excess mastic, mastic smears, and other foreign materials.

3.6 WARRANTY

Submit three (3) signed copies of the manufacturer's product warranty for the entrance system as described above under Section 1.7 Warranty provisions.

-- End of Section --

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SECTION 12 59 00

SYSTEMS FURNITURE

Scope: Panel Systems, Rolling Pedestals and Worksurfaces

PART 1 GENERAL

1.0 QUOTATIONS FOR ALL PRODUCTS

All Proposers offering Product Solutions as part of this specification shall be on the current NC State Contract 420A and be listed as an approved Vendor under current Cleveland County Purchasing Standards.

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM C1048 (2018) Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass

ASTM E84 (2018a) Standard Test Method for Surface Burning Characteristics of Building Materials

BIFMA INTERNATIONAL (BIFMA)

ANSI/BIFMA X5.6 (2016) American National Standards for Office Furnishings -Panel Systems

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70 (2017; ERTA 1-2 2017; TIA 17-1; TIA 17-2; TIA 17-3; TIA 17-4; TIA 17-5; TIA 17-6; TIA 17-7; TIA 17-8; TIA 17-9; TIA 17-10; TIA 17-11; TIA 17-12; TIA 17-13; TIA 17-14; TIA 17-15; TIA 17-16; TIA 17-17) and Article 604 of the National Electrical Code

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UNDERWRITERS LABORATORIES (UL)

UL 183	(2015) UL Standard for Manufactured Wiring Systems
UL 1286	(2008; Reprint Jan 2018) UL Standard for Safety Office Furnishings

1.2 SUBMITTALS

Submit the following the conclusion of the Selection process:

Shop Drawings - depicting Product Solutions per Type/Configuration

Detail Drawings; Plan Views and Elevations

Product Data - depicting Product Solutions per Type/Configuration

Warranty; Provisions from the Manufacturer of all components and any Limitations or Warranty terms

Data Sheets; Workstations, Spines and Panels, Power Rails, Modular Tables, and Worksurfaces

Data Sheets; Power and Data/Communications delivery methods

Samples - to be furnished following Bid process by successful Vendor.

Workstations; Trims in color options, Fabrics, Laminates

1.3 CERTIFICATIONS

1.3.1 Indoor Air Quality Certifications

1.3.1.1 Office Furniture Systems and Seating

Provide products certified to meet indoor air quality requirements by SCS Global Services Indoor Advantage, ANSI/BIFMA M7.1 or equivalent. Provide current product certification documentation from certification body. When product does not have certification, provide validation that product meets the indoor air quality product requirements cited herein.

1.4 QUALITY ASSURANCE

1.4.1 General Safety

Provide workstation products free of rough or sharp edges. Provide panel supported components with a positive, integral locking device which secures components without the use of additional screws or clamps to prevent the components from being accidentally pulled or knocked off the panels.

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1.4.2 Fire Safety

Components must meet requirements for flame spread and smoke development as specified by NFPA 101, Class B for sprinklered building environment.

1.4.3 Electrical System

The electrical system must meet the requirements of UL 1286. Submit three sets of electrical system manuals describing the functions, configuration, and maintenance of the electrical system (power, communications, data). This material may be included in the Assembly or Maintenance manuals at the Contractor's option.

1.4.4 Detail Drawings

Provide drawings to scale as follows:

- a. Overall reference drawings: Drawings showing workstation locations and overall plan view within each floor in a scale of 1/8 inch = 1 foot. Layouts must reflect field verified conditions and clearly illustrate the overall space planning concept and intent.
- b. Installation drawings: Drawings showing workstations, panels, components, and plan view within each floor. Identify workstations by workstation type; submit drawings showing the proposed workstation installation at a scale of 1/4 inch = 1 foot, unless otherwise specified. Installation drawings must reflect field verified conditions.
- c. Workstation elevations: Dimensioned workstation elevations showing each type of workstation with panel frame configurations and all components identified with manufacturer's catalog numbers. Draw elevations at 1/2 inch = 1 foot scale.
- d. Panel drawings: Panel drawings showing locations and critical dimensions from finished face of walls, columns, panels, including clearances and aisle widths. Key assemblies to a legend which includes width, height, configuration, and composition of frame covers finishes and fabrics (if different selections exist within a project), power or nonpower, connectors and wall mount hardware. Coordinate panel placement with location of electrical, voice/data as prescribed by Cleveland County Information Systems personnel.
- e. Electrical drawings: Drawings showing power provisions including type and location of feeder components (service entry poles, base, or ceiling feeds), activated power receptacles and other electrical components. Wiring configuration (circuiting, switching, internal and external connections) identified and a legend provided as applicable. Identify which receptacles in typical furniture configurations will be connected to controlled building power circuits as applicable to meet Total Connected Load requirements. Coordinate with electrical drawings.
- f. Wire management capacity drawings. To be coordinated with Cleveland County Information Systems personnel.

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- g. Communication drawings showing telephone provisions: Drawings indicating the type and location of feeder components and communications jacks with wiring configuration identified where applicable as prescribed by Cleveland County Information Systems personnel.
- k. Reflected ceiling plan for projects specified with power poles, if applicable. It is the intent that power poles be avoided for this project.

1.5 DELIVERY, STORAGE, AND HANDLING

Deliver components to the jobsite in the manufacturer's original packaging with the brand, item identification, and project reference clearly marked. Coordinate delivery with the General Contractors Phasing Schedules and the Owner's Facility Management personnel. Remove furniture from packaging and store in an unoccupied, dry location that is ventilated. Storage shall be free from dirt and dust, water, and other contaminants, and in a manner that permits easy access for inspection and handling.

1.6 WARRANTY

Warrant the systems furniture that covers parts and labor for a minimum period of (12) years with the following exceptions: Fabrics and other covering materials for (3) years. Where manufacturers offer Lifetime warranties on selected components, so stipulate. Warranties must be signed by the authorized representative of the manufacturer. Present warranties, accompanied by document authenticating the signer as an authorized representative of the guarantor, to the Owner upon the completion of the project. Guarantee that the workstation products and installation are free from any defects in material and workmanship from the date of delivery. Submit two (2) copies of the warranty.

PART 2 PRODUCTS

2.1 MATERIALS

Provide System Furniture Components with a minimum of 55 percent recycled content. Provide data identifying percentage of recycled content for system furniture components.

Provide certification of indoor air quality for Office Furniture Systems.

2.2 SYSTEM DESCRIPTION

2.2.1 Workstations

This specification establishes the minimum requirements for the acquisition and installation of a complete and usable system of workstations composed of panels, work surfaces or pedestal units, supporting components, electrical hardware, communications, special electrical features, and accessories. Provide workstation requirements and configurations in accordance with the furniture layout and the attached Basis of Design document. Provide components and hardware from a single manufacturer that are standard products as shown in the most recent published price lists or amendments.

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Proposed product must be part of the manufacturer's current line with no intent to discontinue within two years. Submit complete listing of part/model numbers for all components to be provided. Provide electrical components from a single manufacturer to the extent practicable (different types of components may be of different manufacturers, but all units of a given component must be from a single source). Conformance with NFPA 70, UL 1286, and UL 183 is required. Coordinate the work of this section with that to be performed under other sections.

Submit two complete sets of certificates attesting that the proposed workstation meets specified requirements. Date the certificate after the award of the Contract, include the name of the project, and list specific requirements being certified.

2.2.2 Samples

Submit samples as required to obtain final approval. The Government reserves the right to reject any finish samples that do not satisfy the technical or color requirements. Work cannot proceed without sample approval in writing from the Owner. Submit four sets of the finish samples listed below:

- a. Panel fabrics and laminate finishes. Minimum 6 by 6 inches with label designating the manufacturer, pattern, color, fiber content, fabric width, fabric weight, fire rating, and use (panel and/or fabric).
- b. Workstation component finishes. Minimum 2-1/2 by 3 inches with label designating the manufacturer, material composition, thickness, color, and finish.
- c. Panel glazing. Glazing samples with label designating the material and safety ratings.

2.2.3 Alternate Designs

Proposers and/or Manufacturers desiring to be considered as part of this Bid Solicitation who are unable to provide workstations that conform exactly to the furniture layouts and typical workstation types as indicated in the Basis of Design document, may submit Alternate Designs for consideration by the Owner. However, where the Alternate Designs do not meet or exceed the listed criteria herein, the departures from the stipulated Basis of Design document must be identified and specifics given. Alternate designs that are submitted and depart from the stipulated Basis of Design may be subject to having the Alternate Design rejected.

2.2.3.1 Component Requirements

Provide the types of components or elements as shown in the Basis of Design document. Do not reduce the storage capacity, number of workstations accommodated, width of aisles, or workstation configuration. testing laboratory. Component specific requirements are listed in appropriate paragraphs.

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2.3 SYSTEMS FURNITURE

2.3.1 Panel System Components

Supply all components and accessories for a completely finished panel assembly with the system. Provide a non-welded system capable of structurally supporting cantilevered work surfaces, shelves, overhead cabinets, and other components in the configurations shown in the Basis of Design document plus more than one fully loaded component per panel per side. Provide panels that are acoustical tackable units, and a system capable of lowering or raising the overall panel assembly height at horizontal connections by removing or adding panel-frames on-site without disturbing adjacent panel components, without using stackers. "Boundary screens" are not permitted. Provide a spine wall system where electrical and data management will be easily accessible by removable wall or base covers that can be removed while workstation components are still attached. Provide a panel system that is available in a variety of nominal widths and heights as designated in the Basis of Design document. Measure heights from the finished floor to the top of the panel. Minimum panel thickness is 3 inches (3") thick.

2.3.2 Panel Finishes

Provide panel skins on a steel reinforced backing to maintain integrity and shape over time. Include the following options: tackable fabric, internal fabric skins, wood veneer laminates must be an optional finish as indicated in the Basis of Design document. Provide each fabric-faced panel with a seamless width of fabric stretched over the entire face of the panel - minimum gaps between skins. The fabric color throughout the installation must be consistent.

External fabric skins must offer color options for selection purposes by the Owner following submission of fabric samples under Sect. 2.2.2.

Frame edges will be finished with steel, thin-profile top caps and end trims manufactured from minimum 1/4" metal or greater. Edges of PVC and ABS plastic are not permitted. Panel trims must offer universal junctions that allow for "L", "T", and "X" configurations. Panel frames shall have factory-punched holes for correct alignment of skins and consistency of joints.

Provide raceways and covers as an integral part of the panel whether powered or nonpowered. Magnet held base covers will not be accepted.

2.3.3 Glass Stackers

Panel to have integrated frameless glass inset installed into top cap - not a clip-on accessory or supported by a raised lip atop the panel. Frameless glass stackers shall be 3/8" thick polished float glass with smoothed, rounded corners as depicted in the Typical Workstation layouts as part of the Basis of Design document. Glass toppers or framed glass add-ons are not permitted.

2.3.4 Leveling Glides

Provide precise alignment of adjacent panels and include leveling glides to compensate for uneven floors. Provide quantity and location of leveling

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glides as recommended by the manufacturer. A minimum $\frac{3}{4}$ -inch adjustment range is required.

2.3.5 Connection System

Provide connectors which accommodate a variety of configurations as indicated in the Basis of Design document to include: a straight line connection of 2 panels (180 degrees), corner connection of 2 panels (90 degrees), T connection of 3 panels (90 degrees), cross connection of 4 panels (all 90 degrees), as well as double spine configurations to suit column locations. Provide tight connections with continuous visual and acoustical seals. Plastic, painted metal, fabric or wood finish connections are required to match system. Provide connector system that allows removal of a single panel within a typical workstation configuration, without requiring disassembly of the workstation or removal of adjacent panels. Provide for connection of similar or dissimilar heights to include trim pieces to finish the exposed edge. Right angle (90 degree) connections between panels must not interfere with the capability to hang work surfaces and other components on any adjacent panel. Provide, as required, the continuation of electrical and communications wiring within workstations and from workstation to workstation. Filler posts must be level with the top rail.

2.4 WORK SURFACES

2.4.1 Construction

Construct work surfaces to prevent warpage. Fully support work surfaces from the panels or support jointly by the panels. Use metal support brackets to support work surfaces from the panels, provide metal-to-metal fitting to the vertical uprights of the panels, vertically adjustable, to lock the work surfaces in place without panel modifications. Abutting work surfaces must line up closely and be at equal heights when used in side-by-side configurations in order to provide a continuous and level work surface. Provide work surfaces in sizes and configurations shown in the Basis of Design document. All Worksurfaces shall have 1/2" cord=drop for cable management. Provide all edges with 3mm edgeband. Provide work surfaces as shown on the Plan Drawings in the Basis of Design document and include hardware necessary to provide firm and rigid support.

2.4.2 Finishes

Provide work surfaces with a finished top surface of high pressure plastic laminate, and a smoothly finished underside. The work surface must not be damaged by ordinary household solvents, acids, alcohols, or salt solutions. Provide metal support brackets that match the color and finish of trim.

2.5 PEDESTALS

Provide drawer configurations and pedestal height as shown in the Basis of Design document. Provide one (1) mobile pedestal with full-depth drawers for each workstation. Free standing mobile pedestals to include finished backs, box and file drawers must fully extend, and include an attached upholstered seat cushion, a handle for moving, and casters. Mobile pedestals must be load bearing and equipped with counterbalance as standard.

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Provide appropriate height of mobile pedestal so it can be stored under a standard height worksurface.

2.5.1 Construction

Provide pedestals and drawers of steel construction. Securely attach drawer faces to the drawer front.

2.5.2 Finishes

Provide a factory baked enamel finish or powder coated for steel surfaces. Provide plastic laminate drawer fronts, and at all sides of pedestal.

2.5.3 Drawer Requirements

Pedestals must be field interchangeable from left to right, and right to left, and must retain the pedestal locking system capability. Design pedestals to protect wires from being damaged by drawer operation. Provide pedestals that are free-standing, mobile. Drawers must stay securely closed when in the closed position and provide each drawer with a safety catch to prevent accidental removal when fully open. File drawers to be provided with full extension ball bearing drawer slides or rack and pinion suspension. Provide box drawers with pencil trays.

2.6 BENCHING TABLES

Provide interchangeable Tables with attached panel configurations in keeping with configurations indicated in the Basis of Design document for Touch-down areas. See Benching requirements under the Section 2.9.6.

2.6.1 Finishes

Provide a factory baked enamel finish or powder coated for steel surfaces. Provide plastic laminate worksurfaces per the Basis of Design document.

2.7 MISCELLANEOUS HARDWARE

Provide brackets, supports, hangers, clips, panel supported legs, connectors, adjustable feet, cover plates, stabilizers, and other miscellaneous hardware that contribute to a complete and operable furniture system.

2.8 LOCKS AND KEYING

Provide personal storage pedestals at Touch-down areas indicated, provide field changeable lock cylinders with a minimum of (100) different key options. Provide lockable drawers with an individual keyed lock in each pedestal. Clearly label locks with a key number, except for those manufacturers who have removable format locks.

2.9 POWER AND COMMUNICATIONS

Provide both powered and nonpowered panels with base raceways capable of distributing power circuits, communication cables, and data feeds. Provide

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nonpowered bases that are capable of easy field conversion to powered base without requiring the panel to be dismantled or removed from the workstation. Location-specific power kits are not permitted. Provide copper cable assemblies and wiring harnesses for the system and meet the requirements of UL 1286 and NFPA 70, Article 605. Provide conductors with 20 amp, #12 AWG wires or the equivalent in the bus configuration. A single circuit must not serve more than four (4) cubicles or workstations under any circumstances. The label or listing of Underwriter's Laboratories, Inc. will be accepted as evidence that the material or equipment conforms to the applicable standards of that agency. Power components shall be color-coded and tagged for safety. Panel frame shall be supportive of color-coded sleeves that will minimize friction and prevent cables from sitting on steel cable pathways.

2.9.1 Panel Raceways

Provide panels that have hinged or removable covers that permit easy access to the raceway when required but are securely mounted and cannot be accidentally dislodged under normal conditions. Place raceways in locations such as the base, beltline, and below and above the beltline. The raceway must not extend past either panel face or frame trim by more than 1/2 inch. Provide metal or plastic covers which attach securely to the raceway as required and match the finish and color of the panel trim. Provide a minimum of 2 knockouts per side for power receptacles and communications. Provide other raceways that are flush with panel frame covers.

2.9.2 Power Distribution

Power distribution will be as indicated on the Electrical Drawings furnished by the A/E at a later date.

2.9.2.1 Receptacles

Provide power receptacles in the powered panels. Place devices at the locations indicated on the plans connected to the designated circuits. [Electrical power receptacles and communications jacks should have the ability to be hung at vertical increments throughout the frame via power harnesses. Unless otherwise indicated, receptacles must be 20 amp (NEMA 5-20R) commercial grade conforming to NEMA WD 1 and NEMA WD 6. Provide 10 percent spare devices of each type shown on these plans if receptacles are not interchangeable or will not permit field adjustment of phase and circuit selection. All power receptacles are required to be of the duplex configuration; unless otherwise indicated, special use receptacles are required to be of the simplex configuration with the blade/pin arrangement. Coordinate the color of receptacle bodies with the color of the panel trim.

2.9.2.2 Power Cabling Variations

The paragraph Power Distribution has identified specific cabling configurations. Since universal conventions have not been established, variant configurations available from various manufacturers will be considered.

2.9.3 Electrical Connections

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2.9.3.1 Internal Connections

Utilize flexible plug/receptacle connector assemblies or hardwired floor box connections for internal panel-to-panel power connections and provide the powered configurations to be provided in the Electrical Drawings furnished by the A/E at a later date.

2.9.3.2 Connections to Building Services

Supply external power and communications services to the panels via [direct-wired base entry modules. Extend wiring from building services to the entry modules or panel bases in metal conduit or tubing or in flexible liquidtight conduit 6 foot maximum. Do not use cord and plug assemblies for any portion of external links.

2.9.4 Wire Management

Provide wire management capability at all workstations and accommodate Category 6A cable, including the applicable manufacturer required bending radius at corners. back edge of the work surface and the facing support panel). Provide grommet kits or another suitable finish arrangement for all cable cutouts. Supply horizontal wire managers for mounting under all work surfaces. Attach the wire managers either to the underside of the work surface or to the vertical panel without damaging the face. Exposed or loose wiring will not be acceptable. Wire managers must be prefinished and secure, conceal, and accommodate outlet cords as well as electrical and communications wiring. Wire channels are required to match color of panel trim, attach by means of clip-on attachment, and conceal wires routed vertically. Separate power wiring from communication wiring by use of separate raceways or by placement of channels in joint use troughs or wireways.

2.9.5 Circuit Layout

The circuit layout for workstations will be furnished on the Electrical Drawings from the A/E at a later date.

2.9.6 Benching Requirements

At Touch-down areas, provide four (4) circuit power receptacles to accommodate relocate of height-adjustable worksurfaces as indicated in the Basis of Design document. Configuration of cabling shall meet UL 183, and should be run through a power harness to remain secure.

2.9.8 Communications

Communications wiring will be extended to, and installed in, the electrified panels as shown on the Construction Documents at a later date and will be fully coordinated with Cleveland County Information Systems personnel and the data requirements of DSS.

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PART 3 EXECUTION

3.1 INSTALLATION

Install the workstations using certified installers in accordance with manufacturer's recommended installation instructions. A licensed electrician is required to hardwire the workstations. Install workstation components level, plumb, square, and with proper alignment with adjoining furniture. Securely interconnect and attach components to the building where required. Provide three sets of special tools and equipment necessary for the relocation of panels and other components. Verify that equipment is properly installed, connected, and adjusted.

3.2 CLEANING

Provide cleanup during the General Contractor's close-out procedures. Upon completion of installation, clean and polish all products and leave the area in a clean and neat condition. Any defects in material and installation are required to be repaired, and damaged products that cannot be satisfactorily repaired are required to be replaced. Submit three sets of Maintenance Manuals describing proper cleaning and minor repair procedures.

-- End of Section --