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Town of Montgomery Police Station

106 Bracken Road, Montgomery New York, 12549

ADDENDUM #4: May 02, 2025

General Summary:

1. **As a notification,** specification section 00 01 10 Table of Content has been updated and included for reference purposes.

2. **As a notification,** specification sections 00 43 23 Alternates Form, 08 80 00 Glazing, 08 87 23 Safety and Security Films, and 23 31 00 Sheet Metal and Ductwork Accessories Construction have been revised.

3. **As a clarification,** specification section 08 88 13 Fire-Rated Glazing has been added to the specifications.

4. **As a notification**, architectural drawing A-002 - Drawing List has been updated and included for reference purposes.

5. **As a notification**, architectural drawings A-001 – Title Sheet, A-200 - Typical Wall Types, A-201 - First Floor Plan, A-202 - Second Floor Plan, A-801 - Curtain Wall Schedule, A-802 - Curtain Wall Schedule, A-803 - Curtain Wall Schedule, A-804 - Curtain Wall Schedule, and A-805 - Storefront Schedule were updated.

6. **As a notification,** MEP drawing H-101 has been revised.

7. **As an additional information**, the updated draft of Register of Bid Documents has been included in this addendum.

8. **As a notification**, any outstanding questions that have been submitted prior to the issuance of this Addendum will be addressed in a forthcoming addendum.

Contractor Questions:

1. Section 10 56 13 – Metal Storage Shelving: Please clarify where this shelving is located.
RESPONSE: See question and response #5, #6, and #7 in Addendum 3.

2. Section 10 56 13 – Metal Storage Shelving: What width, height, depth and number of shelf levels are required for the shelving?"

   RESPONSE: See question and response #5, #6, and #7 in Addendum 3.

3. Section 10 56 26 – Mobile Storage Shelving: Spec calls for finished floor to be flush with the top of the rails. Will these rails be recessed in concrete or is a raised subfloor required?

   RESPONSE: See question and response #5, #6, and #7 in Addendum 3.

4. Spacesaver Mobile System questions:
   a) Can you please confirm the number of mobile carriages?
   b) Can you please confirm the depth and width of the mobile carriages? (Our understanding is 24”D x 48”W
   c) Can you please confirm if a locking mechanism is required for the mobile system?
   d) Can you please confirm if a Rollok overhead door is required to lock the system?
   e) Can you please confirm how many shelf openings are required per section?

   RESPONSE: See question and response #5, #6, and #7 in Addendum 3.

5. Men’s & Women’s Locker Room
   a) The bid spec’s indicate (8) lockers may be coming from the existing locker rooms.
   b) Can you please confirm the number of new lockers required for the Men’s C Women’s rooms? Based on the drawings we see 11 new lockers in the Women’s room and 46 new lockers in the Men’s room for a total of 57 new lockers

   RESPONSE: See question and response #2 in Addendum 2.

6. Evidence Lockers:
   a) The bid spec’s indicate (1) evidence locker may be coming from the existing evidence room. Can you please confirm if (2) new evidence lockers are required for the bid?
   b) (1) Evidence locker has a ½ height refrigerator. Is this a non-pass thru or non-pass thru locker? Can you provide details on the locker configuration? How many inserts for the refrigerator?
   c) (1) Evidence locker does not have a refrigerator. Is this a pass-thru or non-pass thru locker? Can you provide details of the locker configuration?

   RESPONSE: All lockers will now be new. Mobile shelving to be as indicated on drawing A201. Stationary evidence locks to have (2) shelves, along with space for long gun storage. Locking rolling doors are required. Firearm lockers are to be relocated from existing facility.

7. Drawing A-200, wall types 235 & 237 depict 6” LG metal stud framing in the graphic, however, the specification notes 6” CFM framing. Please advise.

RESPONSE: For wall type #235 & #237 follow written specifications. Graphics are for visual representation of component assemblies and may not always reflect the requirements in the specifications.

8. Construction Note 28 on A-201 states:" These drawings do not contain complete specifications, details and information required for the interior finishes of the project. Additional information shall be obtained by the Owner". Please advise and provide all necessary information.

RESPONSE: This note has been removed, see revised drawing A-201 included in this addendum. Interior finishes are indicated on drawing A-702 and full specifications are provided within the specifications.

9. Construction Note 9 on Drawing A-300 states "illuminated signs attached to the building are to be provided and installed by an Owner approved vendor, hired by the G.C." Please clarify GC's scope for this bid.

RESPONSE: As a revision, the owner will hire a separate Signage Vendor for the (2) Police Sheild signs and the (1) *Town of Montgomery Police Department* lettering sign. The sign vendor hired by the owner will fabricate and install the signage. The GC is responsible for: 5/8" Pressure Treated Plywood continuous blocking behind the rain screen at the *Town of Montgomery Police Department* lettering, and the down lights as shown on the bid documents for the (2) Police Shields.

10. Based on feedback from the current subcontractor market, as well as additional projects bidding at the same time, we are requesting a minimum 2-week bid extension. Please advise.

RESPONSE: At this time the owner does not intend to extend the bid date.

11. Per addendum 2, attached is a substitution request for your review. Please let us know if this product is acceptable.

RESPONSE: Substitution requests will be answered in Addendum 5.

12. Where should glass type G-14 one way vision glass mentioned in spec section 08 80 00 be included on the project? Is this glass exterior? It mentions a bird friendly pattern with threat level 25, but it seems like this glass would be interior in an interview room or something. Please clarify.

RESPONSE: Glazing Type G-14 is for window Type E.

13. Part 2.03.D of spec section 08 44 13 mentions column covers & beam covers, but details such as 2 &3/A-406 show the steel inside of the curtain walls without covers of cladding of any kind. Please confirm reference to column covers & beam covers in curtain wall spec can be disregarded.

RESPONSE: The four columns in the entry vestibule are to be covered to match the storefront. All other exposed steel or columns to be painted as per A-700.

14. Spec section 08 87 23 mentions several different film manufactures for the blast mitigation film alternate #6, please identify the basis of design product. Is there a basis of design product

    RESPONSE: The basis of design is the 3m film. See revised 08 87 23. The film is to be installed on the interior side of the exterior storefront and curtainwall glass.

15. Section 28 10 00 Access Control; This section is presented as "For Reference Only" What accommodations if any do we need to provide for Access Control?

    RESPONSE: See responses to question #1 is addendum #3.

16. Specification Section 23 31 0-3.14 list locker room exhaust duct system in their entirety as aluminum, however there are several branch exhaust lines that are tied into the 14” x 14” exhaust main being served by exhaust fan EF-1, please advise if the entire exhaust system or just the duct work with-in the locker room is to be aluminum.

    RESPONSE: The entire system is to be aluminum.

17. Please clarify the specifications for 09 84 30 acoustic wall and ceiling panels.

    RESPONSE: As noted in previous addendums, the ceiling panel size is noted on A-702. All Arktura Softscreen panels are 1/2" thick.

18. Overly only offers an STC55 metal door & frame assembly that is 3" thick. Please advise if this is acceptable.

    RESPONSE: The OVERLY door with an STC55 rating to be used in place of the STC56 as specified.

19. Anticipated Project Schedule: Can you please provide a Project Schedule, or a Milestones Schedule?

    RESPONSE: The selected GC will be responsible for a project schedule based on the substantial and final completion dates given.

20. Please clarify which windows are storefront windows. Is window E the only sound control window at Juvenile-104. Please confirm.

    RESPONSE: Window types A-F are storefront windows. Window type E is the only sound control window.

21. According to detail 3/A-409, the interior entrance of Vestibule-100 is a non-thermal curtain wall. According to detail 4/A-409, the exterior entrance is a curtain wall. Please confirm.

    RESPONSE: Correct - the (3) exterior walls of the vestibule are insulated store front.

22. Vestibule-100 – will the 4 posts shown be steel columns with aluminum break metal covers, finish to match the curtain wall/storefront framing? Please confirm.

    RESPONSE: The four columns in the entry vestibule 100 are to be steel and covered to match the glazing system. All other exposed steel or columns to be painted as per A-700.

23. Door Schedule A-800 shows typical door elevations 1-8. The adjacent schedule does not reference any of these elevations. Please clarify.

RESPONSE: Door schedule was updated and released in Addendum #3 to include the elevations.

24. Exterior elevations A-300 and A-301 reference GL-1 and GP-2 glazing types. Neither of these is listed in section 08 80 00. Please clarify.

RESPONSE: As clarification, GL-1 is insulated glazing and GP-2 is spandrel glazing.

25. Exterior elevations A-300 and A-301 reference GL-1 as low iron clear glass. Section 08 80 00 does not reference low iron glass, and notes Solargray tint. Please clarify.

RESPONSE: See revised specification section 08 80 00 Glazing.

26. Section 08 80 00 does not reference the type of spandrel coating. Will it be ceramic frit or opaci-coat? Please clarify.

RESPONSE: See revised specification section 08 80 00 Glazing.

27. Concerning Detail 5/S300 8'' slab. It's unclear if this is slab on deck as shown in the architectural drawing A -401 section 2 or not. Please provide reinforcing and coverage extent of slab.

RESPONSE: The slab is not designed to have a metal deck. It is to be formed and cast-in-place. Contractor can submit an option to use form deck if they prefer. Reinforcing and the extent of this slab is shown on 8/S300

28. Please clarify the substantial completion and start date of this project. The plans show a substantial completion of 12/15/26 with a final completion of 1/15/27 while the specifications show a substantial completion of 9/30/26 and final completion of 10/31/26.

RESPONSE: Dates listed in the Bid Documents are to be followed (9/30/26 & 10/31/26). The dates listed on drawing A-001 have been removed.

29. Based on the time sensitive nature and multiple prices required for this bid, would it be acceptable to submit section 004327 Separate Prices Break-Out Form within 24 hours after the bid date?

RESPONSE: At this time the owner has not extended the bid date. All documents must be submitted per the bid documents.

30. Please clarify if there are allowances required on this project and if so, what are they?

RESPONSE: There are no allowances on this project. The 9 alternates are listed in bid specifications 01 23 00.

31. Alternate Form section 00 43 23 lists alternates #1-6 and EC 1, Alternates section 01 23 00 lists alternates #1-8. Please clarify if the Alternate Form is correct and if so which alternates from section 01 23 00 apply.
Alternate #7 calls for modification of an existing bench but this is a new building, please clarify if alternate #7 is required.
Alternates #3 and #4 calls for a ""Deduct cost"" but the nature of the alternates appear to be added costs, please clarify if these are required to be deduct costs.

RESPONSE: Previously answered in response #22 & #26 in Addendum 2. Alternates #3 and #4 are deducts. See revised specification section 00 43 23 Alternates Form included with addendum #2.

32. Bid drawings do not indicate access doors for in wall MEPs or Above Ceiling MEPs, Access doors are called out in spec 23 31 00 with minimum size requirements. Please provide quantity and locations on drawings. Drawing H-501 only shows access doors on HVAC equipment or on duct runs.

RESPONSE: In regard to the access door question. The only area that doesn't have drop ceilings that would require access is the evidence processing room as there are 2 VAV above that ceiling.
The contractor should provide 2 lockable access doors below each box for servicing. I wanted to make sure that this is okay with the PD as this is a high security area.

33. Can you please confirm the number of mobile carriages?
Can you please confirm if a locking mechanism is required for the mobile system?
Can you please confirm if a Rollok overhead door is required to lock the system?
Can you please confirm how many shelf openings are required per section?

RESPONSE: Drawing A-201 was updated in Addendum 3 showing the mobile storage layout in plan. See additional responses in question #34 below.

34. Can you please confirm if a Rollok overhead door is required for each section (2) to lock the shelving? Can you please confirm the number of shelf openings per section? Are there any dividers required to store long guns? Are pistol pegs required for pistol storage? If so, how many pistol pegs are required?

RESPONSE: Yes, locking overhead doors are required. There are 6 shelves on the mobile carriages and 2 shelves and 3 dividers for long guns. There is no anticipated pistol storage at this time.

35. The bid spec's indicate (8) lockers may be coming from the existing locker rooms. Can you please confirm the number of new lockers?.

RESPONSE: See question and response #5, #6, and #7 in Addendum 3.

36. The bid spec's indicate (1) evidence locker may be coming from the existing evidence room. Can you please confirm if (2) new evidence lockers are required for the bid?
(1) Evidence locker has a ½ height refrigerator. Is this a non-pass thru or non-pass thru locker? Can you provide details on the locker configuration? How many inserts for the refrigerator?
(1) Evidence locker does not have a refrigerator. Is this a pass-thru or non-pass thru locker? Can you provide details of the locker configuration?

RESPONSE: See question and response #5, #6, and #7 in Addendum 3.

37. Section 01 23 00 lists Alternate 03 as a “deduct”. Alternates Form 00 43 23 lists Alternate 03 as an “add”. Please advise.”

RESPONSE: Alternates #3 and #4 are deducts. See revised specification section 00 43 23 Alternates Form issued with Addendum #2.

38. Wall type 392 on A-200 depicts 6” CMU and notates 4” CMU. The specification to the right notes 8” CMU. Please advise.

RESPONSE: Wall type has been updated. See revised drawings A-200 & A-201.

39. Details 1 & 2 / A-608 depicts a masonry block window sill. Please provide a specification for this product or confirm this detail is not required.

RESPONSE: The details listed above are not to be used with this project.

40. Specification section 09 21 16 references bullet resistant sheathing and wallboard, however, Typical Wall Details drawing A-200 does not reference any bullet resistant requirements. Please advise if bullet resistant sheathing is required.

RESPONSE: Bullet resistant sheathing or wallboard is not required.

41. Is a BMS system required, if so does ownership have a preferred or existing vendor?

RESPONSE: The owner

42. I am following up regarding the AUDIO-VISUAL portion of the bid on Montgomery Township. We are in receipt of Addendum 1 and 2, however we are not seeing the AV portion in these documents.
Is there another addendum that is expected to come out to address the AV?

RESPONSE: See question and response #2 in Addendum 2.

43. There are mullion mate details 1-3 on page A-616. Please clarify where these are to be used.

RESPONSE: The mullion mate details shown on drawing A-616 are not to be used in this project.

44. Section 08 80 00 does not reference fire-rated glass. There are fire rated doors with vision lite windows. Please advise.

RESPONSE: See updated specifications section 08 80 00.

45. Note tag "LX" on drawing S-101 designates AESS finishing. This tag does not appear to be keyed into the documents. Please advise where AESS finishing is required.

RESPONSE: Steel shapes that have to comply with AESS are noted as L3 on the drawings. This indicates the level of AESS required.

46. Specification section 12 24 00 Window Shades notes the shade motor to be battery operated radio technology, however, the control platform specified is the I/O system. These motors & controls are not compatible together with one another. Please advise which is desired.

RESPONSE: The window shades are to be battery operated and not an I/O system.

47. Is mineral wool insulation an acceptable alternative to the open cell spray foam insulation specified for the masonry cavity insulation.

RESPONSE: The masrony cavity insulation specified in the bid documents is required to be used to meet NYS Energy Code.

48. Millwork detail 2/A-606 shows ¾ solid quartz stone counter, detail 3/A-606 shows 1 ½" countertop, solid surface quartz. Please clarify countertop types, thickness, and locations.

RESPONSE: As clarification countertops to be 3/4" thick with a 1-1/2" edge. See A-702 for locations.

49. Please clarify where storefront glass door and aluminum door units are shown.

RESPONSE: Storefront doors S100 & S100-1 are listed on the A-800 drawing. Additional size and layout details are shown on A-804

50. Door unit 122-1 does not appear on the door schedule. Please provide size, type, and required hardware.

RESPONSE: Door 122-1 is listed on the A-800 drawing.

51. Is the specified GacoProFill foam type insulation is a spray foam in place type of insulation/block fill material required?

RESPONSE: Yes, the specified GacoProFill foam insulation is required to meet the NYS Energy code in the exterior walls.

52. As this project is subject to a PLA with increasing Union / Prevailing Wage requirements, please specifty the anticipated start date for construction.

RESPONSE: See question and response #8 in Addendum 3.

53. Alternate No. 6 notes to supply and install blast mitigating window film in accordance with drawings A-300/A-301 and the Window/Storefront Schedule. We don't see any designations for window film on the drawings mentioned. Please advice.

RESPONSE: Blast mitigating window film to be installed on all storefront and curtain wall glass.

54. Drawing A-625 Drain & Dry Lath – Details, where do these details apply?

RESPONSE: The typial details for Drain & Dry Lath do not apply to this project.

55. Building section dwgs. A-400 – A-402 depict insulation above the ceilings in various rooms. Please clarify limits of sound batt insulation above ceilings.

RESPONSE: All ACT ceilings to have batt insulation placed above the ceiling to limit sound transfer. See spec section 07 21 00 section 2.01 F above ceiling insulation for additional information.

56. On A-300 north and south elevations it calls out for ACM-01 and ACM-02 for wall panels. There please clarify cutoff designation between the two.

RESPONSE: The cutoff between ACM-1 & ACM-2 is shown on the exterior renderings on drawing A-905 and happens at the first horizontal step in the exterior ACM façade at ACM-2

57. SECTION 10 14 16 Plaques, Is it a dedication plaque? What are the dimensions?

RESPONSE: GC to include a 24”x24” plaque as detailed in the specifications to be mounted on the exterior masonry walls as a dedication plaque.

SECTION 00 01 10
TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS

Division 00 -- Procurement and Contracting Requirements

AIA Documents

END OF SECTION 00 01 10

SECTION 00 43 23
ALTERNATES FORM

PARTICULARS

THE FOLLOWING IS THE LIST OF ALTERNATES REFERENCED IN THE BID SUBMITTED BY:

(Bidder) _____

TO (Owner): Town of Montgomery

Dated _____ and which is an integral part of the Bid Form.

ALTERNATES LIST

THE FOLLOWING AMOUNTS SHALL BE ADDED TO OR DEDUCTED FROM THE BID AMOUNT. REFER TO SECTION 01 23 00 - Alternates.

ALTERNATE # 1: ADD $ _____

ALTERNATE # 2: ADD $ _____

ALTERNATE # 3: (DEDUCT) $ _____

ALTERNATE # 4: (DEDUCT) $ _____

ALTERNATE # 5: ADD $ _____

ALTERNATE # 6: ADD $ _____

ALTERNATE # 7: ADD $ _____

ALTERNATE # 8: ADD $ _____

ALTERNATE # 9: ADD $ _____

END OF SECTION 00 43 23

SECTION 08 80 00
GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Insulating glass units.

B. Glazing units.

C. Glazing compounds.

1.02 RELATED REQUIREMENTS

A. See section 01 23 00 - Alternates.

B. Section 08 43 13 - Aluminum-Framed Storefronts: Glazing provided as part of storefront assembly.

C. Section 08 44 13 - Glazed Aluminum Curtain Walls: Glazing provided as part of wall assembly.

1.03 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; Current Edition.

B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test; 2015 (Reaffirmed 2020).

C. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2019).

D. ASTM C1036 - Standard Specification for Flat Glass; 2021.

E. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.

F. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass; 2019.

G. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016 (Reapproved 2023).

H. ASTM C1376 - Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass; 2021a.

I. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings; 2016.

J. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation; 2019.

K. GANA (GM) - GANA Glazing Manual; 2022.

L. GANA (SM) - GANA Sealant Manual; 2008.

M. NFRC 100 - Procedure for Determining Fenestration Product U-factors; 2023.

N. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence; 2023.

O. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems; 2023.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data on Insulating Glass Unit and Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.

C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.

D. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Perform Work in accordance with GANA (GM) and GANA (SM) for glazing installation methods. Maintain one copy on site.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
   1. Provide certified glass products through ANSI accredited certifications that include plant audits and independent laboratory performance testing.

C. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

1.06 FIELD CONDITIONS

A. Do not install glazing when ambient temperature is less than 40 degrees F (4 degrees C).

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
   1. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
   2. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
   3. Glass thicknesses listed are minimum.

B. Weather-Resistive Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.
   1. In conjunction with weather barrier related materials described in other sections, as follows:

C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
   1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
   2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
   3. Solar Optical Properties: Comply with NFRC 300 test method.

2.02 GLASS MATERIALS

A. Float Glass: Provide float glass based glazing unless otherwise indicated.
   1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.
   2. Kind HS - Heat-Strengthened Type: Complies with ASTM C1048.
   3. Kind FT - Fully Tempered Type: Complies with ASTM C1048.
   4. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.
   5. Tinted Type: ASTM C1036, Class 2 - Tinted, Quality - Q3, with color and performance characteristics as indicated.

6. Wired Glass Type: ASTM C1036, Type II - Wired Flat Glass, Quality - Q6, with color and performance characteristics as indicated.
7. Safety Wired Glass Type: ASTM C1036, Type II - Wired Flat Glass, Quality - Q5, complying with ANSI Z97.1 - Class B, or 16 CFR 1201 - Category I impact test requirements, and with color and performance characteristics as indicated.
8. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

B. Laminated Glass: Float glass laminated in accordance with ASTM C1172.
1. Laminated Safety Glass: Complies with ANSI Z97.1 - Class B or 16 CFR 1201 - Category I impact test requirements.

2.03 INSULATING GLASS UNITS

A. Manufacturers:
1. Cardinal Glass Industries: www.cardinalcorp.com/#sle.
2. Guardian Glass, LLC: www.guardianglass.com/#sle.
3. Viracon, Apogee Enterprises, Inc: www.viracon.com/#sle.
4. Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.
5. Substitutions: See Section 01 60 00 - Product Requirements.

B. Insulating Glass Units: Types as indicated.
1. Durability: Certified by an independent testing agency to comply with ASTM E2190.
2. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
3. Spacer Color: Black.
4. Edge Seal:
   a. Color: Black.
5. Purge interpane space with dry air, hermetically sealed.

2.04 BASIS OF DESIGN - INSULATING GLASS UNITS

A. Basis of Design - Insulating Glass Units: Vision glazing, with low-e coating.
1. Applications: Exterior insulating glass glazing unless otherwise indicated.
2. Space between lites filled with air.
3. Total Thickness: 1 inch (25.4 mm).
4. Thermal Transmittance (U-Value), Winter - Center of Glass: 0.24, nominal.
5. Visible Light Transmittance (VLT): 70 percent, minimum.
6. Shading Coefficient: .44, maximum.
7. Solar Heat Gain Coefficient (SHGC): 0.39, maximum.
8. Visible Light Reflectance, Outside: 11 percent, maximum.
9. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
10. Spacer Color: Black.
11. Edge Seal:
12. Color: Black.
13. Purge interpane space with dry air, hermetically sealed.
14. Basis of Design - Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.
15. Outboard Lite: Annealed float glass, 1/4 inch (6.4 mm) thick, minimum.
    a. Low-E Coating: Vitro Architectural Glass (formerly PPG Glass) Solarban 60 on #2 surface.
    b. Glass Tint: Solargray (light-gray).
16. Inboard Lite: Heat-strengthened float glass, 1/4 inch (6.4 mm) thick.
    a. Coating: No coating on inboard lite.

b. Glass: Clear.

2.05 GLAZING UNITS

A. Wired Glass: Flat glass with embedded wire mesh.
   1. Applications: Locations as indicated on drawings.
   2. Form: Form 1 - Wired glass, polished both sides; ASTM C1036.
   3. Mesh: M1 - Diamond; ASTM C1036.
   4. Tint: Clear, Class 1.
   5. Glass Type: Annealed.
   6. Thickness: 1/4 inch (6.4 mm), nominal.
   7. Glazing Method: Dry glazing method, tape and tape.

B. Type G-14 - One-way-vision laminated glass with precision dot-on-dot printing interlayer.
   1. Applications: Locations as indicated on drawings.
   2. Functionality: Appearance of an image when viewed from outside, that is not visible when viewed from inside.
   3. Overall Thickness: As required to meet performance criteria.
   4. Images: As indicated on drawings.
   5. Composition: Manufacturer's standard.
      a. Outer Pane: Annealed glass.
         1) Tint: Clear.
      b. Interlayer: Polyvinyl butyral (PVB), thickness as required to meet performance criteria.
      c. Inner Pane : Annealed glass.
   6. Printed Pattern: Provide pattern resulting in acceptable avoidance index score from American Bird Conservancy for different sizes and species of birds.
      a. Score: 25.
   7. Fabricators:
      a. McGrory Glass Inc; DotView by McGrory Glass: www.mcgrory.com/#sle.
      b. Substitutions: See Section 01 60 00 - Product Requirements.

2.06 GLASS COATINGS

A. Opacifying Coating: One component, water-based silicone elastomeric opaque color coating for roll coat and spray applications.
   1. Application: Exterior spandrel location as indicated on drawings.
      a. Glass and Coating Orientation at Spandrels: On surface facing interior.
   2. Fabrication of Glass Unit with Coating: Solely by Approved Factory Fabricators trained and certified annually by coating manufacturer.
   3. Dry Film Thickness: Between 0.004 inch (0.102 mm) and 0.006 inch (0.152 mm), minimum.
   4. Color: Selected from manufacturer's standard range and indicated on drawings.

2.07 ACCESSORIES

A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot (25 mm for each square meter) of glazing or minimum 4 inch (100 mm) by width of glazing rabbet space minus 1/16 inch (1.5 mm) by height to suit glazing method and pane weight and area.

B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Continuous by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.

C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.
   1. Width: As required for application.
   2. Thickness: As required for application.

3. Spacer Rod Diameter: As required for application.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.

B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.

3.02 PREPARATION

A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.

B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.

C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.

B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.

C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.

3.04 INSTALLATION - DRY GLAZING METHOD (TAPE AND TAPE)

A. Application - Interior Glazed: Set glazing infills from the interior of the building.

B. Cut glazing tape to length and set against permanent stops, projecting 1/16 inch (1.6 mm) above sight line.

C. Place setting blocks at 1/4 points with edge block no more than 6 inch (152 mm) from corners.

D. Rest glazing on setting blocks and push against tape for full contact at perimeter of pane or unit.

E. Place glazing tape on free perimeter of glazing in same manner described above.

F. Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.

G. Carefully trim protruding tape with knife.

3.05 FIELD QUALITY CONTROL

A. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.

B. Monitor and report installation procedures and unacceptable conditions.

3.06 CLEANING

A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.

B. Remove nonpermanent labels immediately after glazing installation is complete.

C. Clean glass and adjacent surfaces after sealants are fully cured.

D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

END OF SECTION 08 80 00

SECTION 08 87 23
SAFETY AND SECURITY FILMS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Glazing film applied to new glazing assemblies.

B. New Glazing: Factory or shop install film to glazing before installation in frames.

1.02 RELATED REQUIREMENTS

A. Section 08 44 13 - Glazed Aluminum Curtain Walls: New glazing to receive film.

1.03 ABBREVIATIONS AND ACRONYMS

1.04 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; Current Edition.

B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test; 2015 (Reaffirmed 2020).

C. GSA TS01 - Standard Test Method for Glazing and Window Systems Subject to Dynamic Overpressure Loadings; General Services Administration; 2003.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Record of product certification for safety requirements.
   2. Preparation instructions and recommendations.
   3. Storage and handling requirements and recommendations.
   4. Installation methods.

C. Shop Drawings: Detailing installation of film, anchoring accessories, and sealant.

D. Samples: For each film product to be used, minimum size 4 inches (102 mm) by 6 inches (152 mm), representing actual product, color, and patterns.

E. Samples, Supplemental Anchors: Where supplemental anchors are necessary to achieve specified performance submit detailed information in accordance with substitution procedures; include two samples, minimum length 2 inches (51 mm).

F. Test Reports: Detailed reports of full-scale chamber tests to specified criteria, using assemblies identical to those required for this project.

G. Specimen Warranty.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Glazing film manufacturer specializing in manufacture of safety glazing films with minimum 10 years successful experience.

B. Installer Qualifications: Certified by glazing film manufacturer.

1.07 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.08 WARRANTY

A. Provide 10 year manufacturer's replacement warranty to cover film against peeling, cracking, discoloration, and deterioration.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. 3M Window Film: www.solutions.3m.com/#sle.

B. Avery Dennison: www.averydennison.com/#sle.

C. Flexvue Films: www.flexvuefilms.com/#sle.

D. Impact Security, LLC: www.defenselite.com/#sle.

E. Madico, Inc: www.madico.com/#sle.

F. XPEL, Inc: www.xpel.com/#sle.

G. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 SAFETY AND SECURITY GLAZING FILM

A. Blast Resistant Glazing at Ground Level: Provide new glazing assemblies to provide Level 2 blast resistance.

2.03 MATERIALS

A. Glazing Film: Transparent polyester film for permanent bonding to glass.

1. Thickness: 0.008 inch (0.2 mm), minimum.
2. Color: Clear.

END OF SECTION 08 87 23

SECTION 23 31 00
SHEET METAL AND DUCTWORK ACCESSORIES CONSTRUCTION

PART 1 - GENERAL

1.01 WORK INCLUDED

A. Provide labor, materials, equipment and services required for the complete installation designed in Contract Documents.

1.02 QUALITY ASSURANCE

A. Ductwork shall be fabricated and installed in compliance with latest edition of the following standards and with the edition of the Codes in effect at the time the building permit is obtained.
   1. SMACNA Duct Construction Standards - Metal and Flexible Ductwork.
   2. SMACNA Duct Liner Application Standard.
   3. SMACNA HVAC Air Duct Leakage Test Manual.
   4. Mechanical Code of New York State.
   5. Energy Conservation Construction Code of New York State.
   6. Plans and Specifications which exceed the requirements in any of the referenced standards.

B. All sheet metal shall be fabricated and installed by an experienced Contractor specializing in this type of work.

C. All ductwork and fittings shall have a computer generated label affixed to the exterior surface of each section, detailing all applicable information including the duct dimensions, gauge, reinforcement type/class and connection type by systems manufacturer. Galvanizing thickness shall be clearly stenciled on each duct section.

D. All ductwork on the project shall meet the SMACNA Duct Cleanliness for New Construction Guidelines, "Advanced Level" of duct cleanliness for production, delivery, storage and installation of ductwork.

1.03 SUBMITTALS

A. Ductwork Shop Drawings.

B. Duct Access Doors.

C. Flexible Duct.

D. Submit a complete shop standard manual including miscellaneous materials, and construction details for all shop fabricated materials including, but not limited to, volume dampers, turning vanes, duct sealant, equipment flexible connections, access doors, flexible duct, acoustical duct lining, etc.

1.04 GENERAL

A. All adhesives, sealants, primers and paint used for ductwork in the interior of the building shall comply with the maximum Volatile Organic Compound (VOC) limits called for in the current version of U.S. Green Building Council LEED Credits EQ 4.1 and EQ 4.2.

1.05 REFERENCE STANDARDS

A. ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus; 2019, with Editorial Revision (2023).

B. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2023.

C. ASTM C919 - Standard Practice for Use of Sealants in Acoustical Applications; 2022.

D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.

E. ASTM E477 - Standard Test Method for Laboratory Measurements of Acoustical and Airflow Performance of Duct Liner Materials and Prefabricated Silencers; 2020.

F. ASTM E795 - Standard Practices for Mounting Test Specimens during Sound Absorption Tests; 2023.

G. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems; 2024.

H. UL 181 - Standard for Factory-Made Air Ducts and Air Connectors; Current Edition, Including All Revisions.

I. UL 181A - Closure Systems for Use with Rigid Air Ducts; Current Edition, Including All Revisions.

J. UL 181B - Closure Systems for Use with Flexible Air Ducts and Air Connectors; Current Edition, Including All Revisions.

K. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials; Current Edition, Including All Revisions.

1.06 DUCTWORK CLASSIFICATION

A. Duct systems are to be classified and constructed per the SMACNA Velocity-Pressure classification system as follows:
   1. All ductwork shall be constructed for a minimum pressure class of 2 in. w.g. (unless stated otherwise) for the following systems, as applicable:
      a. Supply duct downstream of terminal units.
      b. Typical low pressure supply ductwork.
      c. Typical return ductwork.
      d. Typical low pressure exhaust ductwork.
   2. Supply duct upstream of terminal units shall be constructed for a minimum pressure class of 3 in. w.g. unless otherwise stated or required as per below.
   3. Pressure classes above 3 in. w.g. shall be provided as follows, based upon the external static pressure as scheduled for each specific fan.

Scheduled External Static Pressure	Pressure Class
Over 3 in. up to 4 in. w.g.	4 in. w.g.
Over 4 in. up to 6 in. w.g.	6 in. w.g.
Over 6 in. up to 10 in. w.g.	10 in. w.g.

1.07 DUCTWORK SHOP DRAWINGS

A. Prepare minimum 1/4 in. scale drawings:
   1. Detailed ductwork shop drawings shall include size, layouts and pressure classifications. Any ductwork installed without benefit of review by the Engineer of Record may be subject to replacement at the expense of the Contractor.
   2. Constructed from actual field inspections and measurements so as to assure a complete job.
   3. Incorporate dimensions of actual equipment proposed for use on the project.
   4. Showing adequate sections, elevations, and plan views and indicating the bottom of ductwork elevations from the finished floor.
   5. Indicating all volume dampers, fire dampers, smoke dampers, damper access doors and other accessories required for a completed project.

B. Call to the attention of the Engineers immediately, any major deviations from the Contract Drawings, which must be made. All deviations shall be documented in writing.

C. Indicate roof, wall and floor opening dimensions and locations shown on shop drawings.

D. Submit prints to each Contractor of the other trades for review for interference's and coordination with their work.

PART 2 - PRODUCTS

2.01 DUCTWORK MATERIALS

A. Unless otherwise called for, provide materials in accordance with Exhibit I at the end of this section.

2.02 SQUARE AND RECTANGULAR DUCTWORK

A. Materials:
   1. Galvanized Sheetmetal: Comply with ASTM A653 and A924, with G90/Z275 coating.
   2. Stainless-steel Sheets: Comply with ASTM A 480/A 480M, Type 304 or 316, as indicated in Exhibit "I"; cold rolled, annealed, sheet. Exposed surface finish shall be No. 2B, No. 2D or No. 3 as indicated in Exhibit "I".
   3. Aluminum sheets: Comply with ASTM B 209 (ASTM B 209M) Alloy 3003, H14 temper; with mill finish for concealed ducts, and standard, one-side bright finish for duct surfaces exposed to view.
   4. Gauges per SMACNA HVAC Duct Construction Standards, Metal and Flexible.

B. Transverse and longitudinal duct seams reinforcement shall conform to appropriate tables and figures per SMACNA Velocity-Pressure Classification for duct construction.
   1. Transverse joints shall be sealed with duct joint sealant. "Ductmate" or "Nexus" 4-bolt connection systems may be used in lieu of standard construction.
   2. Field assembled longitudinal seams shall be sealed with duct sealant. Factory or shop fabricated rolled or machine pressed longitudinal seams does not require sealant.

C. Corner closures shall be required as described and illustrated by SMACNA Duct Construction Standards.

D. Throat radius on all elbows shall not be less than the dimension of the duct plane of radius. Where this cannot be maintained, use shorter radius with internal guide vanes, or square elbow with turning vanes.

E. Bracing and hanging of ductwork shall be per SMACNA Standards for size and system class of ductwork being used.

F. Any transformations shall not reduce the ductwork cross-sectional area. Maximum angle in straight duct, 20□ for diverging flow and 30□ for contraction flow. Transformation from square to round or flat to oval seams welded or brazed.

2.03 ROUND DUCTWORK

A. Standard Round Ductwork:
   1. Materials:
      a. Galvanized Sheet metal: Comply with ASTM A653 and A924, with G90/Z275 coating.
      b. Stainless-steel Sheets: Comply with ASTM A 480/A 480M, Type 304 or 316, as indicated in Exhibit "I"; cold rolled, annealed, sheet. Exposed surface finish shall be No. 2B, No. 2D or No. 3 as indicated in Exhibit "I".
      c. Aluminum sheets: Comply with ASTM B 209 (ASTM B 209M) Alloy 3003, H14 temper; with mill finish for concealed ducts, and standard, one-side bright finish for duct surfaces exposed to view.
      d. Gauges per SMACNA Duct Construction Standards. Spiral lock-seam or longitudinal fusion-welded.
   2. All spiral ducts shall have locked seams so made as to eliminate leakage under pressure for which this system has been designed. Longitudinal seams duct shall have fusion-welded butt seams.
   3. Round Ductwork Fittings:
      a. All fittings fabricated per SMACNA Standards for round and flat-oval ductwork, material to match straight pieces of ductwork.
      b. Fittings shall have continuous, welded seams.

c. 90□ tees shall be conical type. 90□ tees and 45□ laterals up to and including 12 in. diameter tap size shall have a radiused entrance into the tap, produced by machine or press forming. The entrance shall be free of any restrictions.
d. Round taps off the bottom of rectangular ducts down to diffusers shall be made with a 45□ square to round shoe-tap.

4. Elbows:
   a. Diameters 3 in. through 8 in.: Two-section stamped and continuously welded elbows, material to match straight pieces of ductwork.
   b. Over 8 in.: Gored construction with standing seam construction and internally sealed or continuously welded. Less than 35□ - two gores, 36□ to 70□ - three gores, over 71□ - five gores.
   c. Fabricated to a centerline radius of 1.5 times the cross-section diameter.
5. Joints:
   a. For duct construction pressure 3 in. w.g. or greater:
      1) Round Joints:
         (a) Unexposed Duct 3 in. - 30 in. Diameter: Connect round duct with a one piece interior slip coupling, at least two gauges heavier than duct wall, beaded at center and fastener to duct with screws. Seal joint with an approved sealant applied continuously around both end of coupler prior to assembling and after fastening.
         (b) All Exposed Duct and Unexposed Duct 30 in. - 72 in. Diameter: Install using a three piece, gasket flanged-joint consisting of two internal flanges, with integral mastic sealant, and one external closure band, which compress the gasket between the internal flanges.
            (1) Acceptable Manufacturer: Ductmate Industries "Spiralmate" system or approved equal.
         (c) Above 72 in. Diameter: Install using companion angle flanged joints as defined in Figure 3-1 of the 2005 SMACNA Manual, "HVAC Duct Construction Standards, Metal and Flexible" Third Edition. Refer to manual for proper sizing and construction details.
         (d) Dust collection systems and exposed duct 3 in. - 14 in. use a one piece, polyethylene lined gasket connector with integrated bolt for the closure system.
            (1) Acceptable Manufacturer: Ductmate Industries "Quicksleeve" or approved equal.
   b. Pipe-to-pipe joints in diameters up to 60 in. shall be by the use of sleeve couplings, reinforced by rolled beads.
   c. Pipe-to-fitting joints in diameters up to 60 in. shall be by slip-fit of projecting collar of the fitting into the pipe.
   d. Insertion length of sleeve coupling and fitting collar shall be 2 in. up to 36 in. diameter and 4 in. above 36 in. diameter.
   e. Pipe-to-pipe and pipe-to-fitting connections in ductwork above 60 in. in diameter shall be made by angle ring flanges. The flange on the pipe shall be a 2 in. x 2 in. x 3/16 in. angle attached to the pipe with a continuous weld. The fittings shall have a loose ring "Van Stone" flange. A 5/8 in. flange shall be provided to act as a gasketing surface for sealing with the angle ring being a rolled, welded ring 2 in. x 2 in. x 3/16 in. Bolt hole spacing for angle rings shall be 6 in. centers.
   f. If longitudinal seam duct greater than 60 in. in diameter is supplied in lengths greater than 4 ft., one angle ring must be welded to the duct on 4 ft. centers for support.

B. Make: Semco, United Sheet Metal.

2.04 DUCTWORK SEALING

A. SMACNA Duct Sealing Classification shall be used for duct systems using the following criteria:

1. Ductwork and all plenums with pressure class ratings shall be constructed to Seal Class A, as required to meet the requirements of SMACNA Duct Construction Standards and with standard industry practice, including transverse joints, longitudinal seams, fitting connections, and all penetrations of the duct wall.
2. Openings for rotating shafts shall be sealed with bushings or other devices that seal off air leakage. Pressure sensitive tape shall not be used.
3. All connections shall be sealed, including but not limited to spin-ins, taps, other branch connections, access doors, access panels and duct connections to equipment.
4. Sealing that would void product listings is not required.
5. Spiral lock seams need not be sealed.

B. Duct sealant for indoor applications shall be non-fibrated, water based, Hardcast Iron-Grip IG-601, Ductmate PRO Seal, Foster 32-17 or Childers CP146.

C. Duct sealant for outdoor applications shall be fibrated, water based, Hardcast Versa-Grip VG-102, Ductmate Fiberseal, Foster 32-17 or Childers CP148.

D. Sealants and tapes shall be listed and labeled in accordance with UL 181A or UL181B and marked according to type.

2.05 TURNING VANES

A. Provide in mitered elbows as shown on contract drawings. Vanes 36 in. or longer shall be double wall air foil type. All turning vanes shall be installed as per the latest SMACNA Standards. Turning vane size and spacing shall be as per SMACNA. Turning vane spacing greater than SMACNA Standards is not acceptable.

B. Turning vanes shall be Harper or equivalent double wall turning vanes fabricated from the same material as the duct.

C. Turning vane front and back panels shall be securely locked together with adequate crimping to prevent twisting of vane. Vane shall be capable of withstanding 250 pounds of tensile load when secured according to the manufacturer's instructions.

D. Rails for mounting turning vanes shall have self locking, friction fit tabs designed to facilitate proper alignment of vanes. Tab spacing shall be as specified in Figure 4-3 of the 2005 SMACNA Manual, "HVAC Duct Construction Standards, Metal and Flexible". Rail systems with non-compliant tab spacing shall not be accepted.

E. Acoustical Turning Vane: Shall be used in applications that require quiet operating systems. Mounting rails shall have friction insert tabs that align the vanes automatically.

F. Acceptable Manufacturer: Ductmate Industries PRO-Rail Turning Vane or approved equal.

2.06 DAMPERS IN DUCTWORK

A. Blade Type Volume Dampers: Constructed per SMACNA, one gauge heavier than duct material, securely fastened to 3/8 in. sq., cold rolled steel operator rod. Provide Ventlock 639 elevated dial regulator for 2 in. insulated ductwork.

B. Multiple Blade Type Volume Dampers: Provide multiple blade volume dampers in ductwork above 12 in. in height.
1. Heavy duty, manual balancing dampers suitable for application in HVAC systems with velocities to 1,500 ft. per minute, open position and max. pressure of 3 in. w.g. close position. Ruskin MD 35 or equivalent.
2. Fabrication:
   a. Frame: 5 in. x minimum 16 gauge roll formed, galvanized steel hat-shaped channel, reinforced at corners. Structurally equivalent to 13 gauge U-channel.
3. Blades:
   a. Style: Single skin with 3 longitudinal grooves.
   b. Action: Parallel.
   c. Orientation: Horizontal.
   d. Material: Minimum 16 gauge equivalent thickness, galvanized steel.

e. Width: Nominal 6 in.

4. Bearings: Molded synthetic sleeve, turning in extruded hole in frame.
5. Linkage: Concealed in frame.
6. Axles: Minimum 1/2 in. diameter, plated steel, hex-shaped, mechanically attached to blade.
7. Control Shaft: 3/8 in. square plated steel.
8. Finish: Mill galvanized.
   a. Actuator: Hand quadrant for 3/8 in. square extended shaft.
   b. Hand Quadrant Standoff Bracket: 2 in. standoff for insulated ductwork.
   c. Oillite bearings.
   d. Factory Sleeve: Minimum 20 gauge thickness, minimum 12 in. length.

C. Fire and Smoke Dampers: See "Fire and Smoke Dampers" Section.

D. Remote Balancing Dampers: For round ducts 4 inches to 24 inches in diameter, Greenheck RBDR-50, or equivalent.
   1. Ratings: 1 in. w.g. pressure differential, 2000 fpm, 180 deg. F.
   2. Construction: Reinforced 20 ga. galvanized steel frame, 20 ga. galvanized steel blade, 3/8 in. sq. plated steel axle, synthetic (acetal) sleeve type bearings, 9 volt actuator.
   3. Options:
      a. "EZ Balance" remote control device with 9 volt battery and 5 ft. RJ11 cable.
      b. Diffuser body connectors.
      c. Single gang wall plates with RJ11 ports (1, 2, 3, 4, or 6 port). Colors: white, ivory or stainless steel.
      d. Round wall/ceiling mounting plate with one port.
      e. 14, 25 or 50 ft. plenum rated RJ11 cable, as required.
      f. RJ11 cable connectors.

2.07 FLEXIBLE AIR DUCTS AND CONNECTORS

A. Flexible air ducts and connectors shall be constructed in compliance with NFPA Bulletin 90A, 90B and UL Standard 181 and shall be listed and labeled as Class I Air Duct.

B. Flexible air ducts and connectors shall be tri-laminate:
   1. Consisting of corrosion resistant galvanized steel helix encapsulated by a double lamination of polyethylene or spun bond nylon.
   2. Factory applied (R 6.0) fiberglass exterior insulation, sheathed in a seamless, tri-directionally reinforced, metalized polyester, exterior vapor barrier.
   3. R-value shall be classified by Underwriters Laboratories, and certified by the Air Diffusion Council, in accordance with ADC Flexible Duct Performance and Installation Standard (1991), using ASTM C-518, at installed wall thickness, on flat insulation only. Comply with ASHRAE/IESNA 90.1.
   4. Recommended operating pressure for flexible ductwork shall be three times maximum system press but not less than 6 in. w.g. positive pressure for 4 in. - 20 in. dia., 5 in. w.g. negative pressure through 16 in. dia., 1 in. negative pressure for 18 in. and 20 in. dia. Maximum velocity of 5500 fpm.
   5. Operating temperature range - 20°F to 250°F, intermittent @1/2 in. pos. w.g. max., -20°F to 140°F, continuous at maximum pressure.
   6. Flame Spread: 25 max. smoke developed rating: 50 max.
   7. Porous inner core flexible duct shall not be used.

C. Static pressure and thermal performance shall be tested and certified in accordance with Air Diffusion Council (ADC) Test Code FD-72-R1 under conditions of 140°F for 164 hours and 180°F for 4 hours.

D. Acoustical performance shall be certified in accordance with ASTM E 477 and/or Air Diffusion Council Test Code FD-72-R1.
   1. Minimum Acoustic Performance:

a. The insertion loss (dB) of a 6 foot length of duct when tested in accordance with ASTM E477 at a velocity of 1000 feet per minute shall be at least:

	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
8 inch dia.	26	27	27	31	32	27
12 inch dia	22	26	24	31	31	20

E. Friction loss and leakage for flexible duct only shall be certified in accordance with Air Diffusion Council Test Code FD-72-R1. Leakage for connections shall be accordance with UL 181 requirements.

F. Basis-of-Design: Flexmaster 6B (R-6.0) .

G. Acceptable Manufacturers:
1. Dundas-Jafine Type SPC R6.0
2. Hart & Cooley Type F216 (R-6.0)
3. Type M-KE (R-6.0)
4. Atco Rubber Products, Inc. Type 036 (R-6.0)

2.08 FLEXIBLE DUCT ELBOW SUPPORT

A. Provide flexible duct elbow support for flexible duct connected directly to a diffuser collar.

B. Elbow support shall be a radius forming brace designed to form flexible duct into a 90° elbow not less than one duct diameter in centerline radius.

C. Elbow support shall be manufactured from 100% recycled copolymer polypropylene with a universal fit of 4 in. thru 16 in. and be UL listed.

D. Basis-of-Design: Titus Flexright.

2.09 FLEXIBLE CONNECTIONS TO FANS AND EQUIPMENT

A. Basis of Deign: Ventfabrics, Inc.

B. Acceptable Manufacturers: Ductmate Industries, Inc., Duro Dyne Inc., Elgen Manufacturing, Ward Industries, Inc.; a division of Hart & Cooley, Inc.

C. Materials: Flame-retardant or noncombustible fabrics, water and mildew resistant UL Standard 214.

D. Coatings and Adhesives: Comply with UL 181, Class 1.

E. Metal-Edged Connectors: Factory fabricated with a fabric strip 3-1/2 in. wide attached to two (2) strips of 2-3/4-in. wide, 0.028-in. thick, galvanized sheet steel or 0.032 in. thick aluminum sheets. Provide metal compatible with connected ducts.

F. Indoor System, Flexible Connector Fabric: Glass fabric double coated with neoprene.
1. Minimum Weight: 26 oz./sq. yd.
2. Tensile Strength: 480 lbf/in. in the warp and 360 lbf/in. in the filling.
3. Service Temperature: Minus 40 to plus 200°F.

G. Outdoor System, Flexible Connector Fabric: Glass fabric double coated with weatherproof, synthetic rubber resistant to UV rays and ozone.
1. Minimum Weight: 24 oz./sq. yd.
2. Tensile Strength: 530 lbf/in. in the warp and 440 lbf/in. in the filling.
3. Service Temperature: Minus 50 to plus 250°F.

H. Thrust Limits: Combination coil spring and elastomeric insert with spring and insert in compression, and with a load stop. Include rod and angle-iron brackets for attaching to fan discharge and duct.
1. Frame: Steel, fabricated for connection to threaded rods and to allow for a maximum of 30 degrees of angular rod misalignment without binding or reducing isolation efficiency.

2. Outdoor Spring Diameter: Not less than 80 percent of the compressed height of the spring at rated load.
3. Minimum Additional Travel: 50 percent of the required deflection at rated load.
4. Lateral Stiffness: More than 80 percent of rated vertical stiffness.
5. Overload Capacity: Support 200 percent of rated load, fully compressed, without deformation or failure.
6. Elastomeric Element: Molded, oil-resistant rubber or neoprene.
7. Coil Spring: Factory set and field adjustable for a maximum of 1/4-in. movement at start and stop.

2.10 ACCESS DOORS

A. General:
1. Provide access doors of adequate size to allow easy access to the equipment that will require maintenance. Provide insulated or acoustically lined doors to prevent condensation where applicable.
2. Manufacturer to provide an installed neoprene gasket around perimeter of access door for airtight seal.
3. Systems 3 in. w.g. or less shall utilize a hinged, cam, or hinged and cam square framed access door.
4. Systems 4 in. w.g. and above shall utilize a sandwich type access door. Construct doors in accordance with Figure 7-3 of the 2005 SMACNA Manual, "HVAC Duct Construction Standards, Metal & Flexible" Third Edition.
5. Approved Manufacturer: Ductmate Industries "Sandwich" style door or approved equal.
6. All access doors shall be continuous piano hinged type, unless noted otherwise.
7. Non-hinged only allowed where clearance to ceiling does not allow a full 90□ swing.
8. Double panel insulated type when used in insulated duct.
9. Single panel uninsulated type allowed in un-insulated duct.
10. Pressure rated according to system in which being installed. Door-to-frame and frame-to-duct gasketing.
11. Provide specified Seal Class A or B ductwork sealing around frame, and hand adjust the latch tension for proper seal, on all access doors other than sandwich panel (Ductmate) style.
12. MINIMUM access door size for ducts 12 in. or less in depth is 12 in. x 8 in.
13. MINIMUM access door size for ducts 12 in. to 18 in. in depth is 18 in. x 14 in.
14. MINIMUM access door size for ducts more than 18 in. in depth is 24 in. x 18 in.
15. In ducts which require multiple section fire dampers due to duct size, provide one access door for each fire damper section.
16. Access doors for fire and smoke dampers shall be permanently labeled with 1 in. high lettering reading "SMOKE DAMPER", "FIRE DAMPER" or FIRE/SMOKE DAMPER".

B. Door Types:
1. Low Pressure Systems (2 in. w.g. pressure class): National Controlled Air ADH-1, Ruskin ADH22, Vent Products 9701, Air Balance FSA-100, Safe Air SAH, Nailor.
2. Medium and High Pressure Systems (3 in. w.g. pressure class and higher):
   a. Rectangular Duct: Ductmate Industries "Ultimate" Style Door, or equal.
   b. Round Duct: Ductmate Industries Round Sandwich type, or equal. 8 in. x 4 in. for ducts 14 in. and less in diameter. Ductmate Industries Round Sandwich type 16 in. x 12 in. for ducts more than 14 in. in diameter.
   c. Furnish and install factory supplied protector molding on cut medal edge for all Ductmate access doors.

2.11 ACOUSTIC-THERMAL DUCT LINING IN DUCTWORK

A. General: Comply with NFPA Standard 90 and NAIMA Standard AHC-101.

B. Materials: ASTM C 1071, Type I. Glass mineral wool insulation coated with an anti-microbial EPA registered coating that seals the airstream surface fibers into a smooth, low-friction

surface acoustic ductliner shall be of thickness shown in the table. Density at 1.5 PCF. Maximum "K" value to be 0.24 btu/in. /sq. ft. /degrees F. /hr. when tested in accordance to ASTM C177. Acoustic duct liner to be suitable for use up to 6000 feet per minute air velocity and temperatures up to 250°F. The acoustic duct liner shall not accelerate the corrosion of steel, copper or aluminum. The liner shall not absorb greater than 3% by weight when tested per ASTM C1104. Acoustic duct liner shall provide the minimum sound absorption coefficients shown below when tested per ASTM C423 and ASTM E795, Mounting Type A.

Octave Band Frequencies Hz							
Thickness	125	250	500	1000	2000	4000	NRC
1-1/2 in.	.23	.50	.87	.92	.93	.93	.80
2 in.	.37	.76	1.02	1.00	.98	.92	.95

C. Thickness: Unless otherwise noted, all supply air ductwork indicated to be acoustically lined, shall have 1-1/2 in. thick liner with a minimum R value of 6. Return or exhaust ductwork, if acoustically lined, shall be of a thickness specifically noted. Note that per the symbol list (L) equals 1-1/2 in. thick. If called for on the plans, (2L) equals 2 in. thick.

D. Fire Hazard Classification: Flame spread rating of not more than 25 and a smoke developed rating of no higher than 50, when tested in accordance with ASTM E84, UL 723, UL/ULC S102-M88 and NFPA 255.

E. Liner Adhesive: Comply with NFPA Standard 90A, ASTM C919, and maximum VOC requirements of LEED EQ 4.1 and EQ 4.2.

F. Mechanical Fasteners: Galvanized steel, suitable for adhesive attachment, mechanical attachment, or welding attachment to duct. Provide fasteners that do not damage the liner when applied as recommended by the manufacturer, that do not cause leakage in the duct, and will indefinitely sustain a 50 pound tensile dead load test perpendicular to the duct wall.
   1. Fastener Pin Length: As required for thickness of insulation, and without projecting more than 1/8 inch into the airstream.
   2. Adhesive for Attachment of Mechanical Fasteners: Comply with the "Fire Hazard Classification" of duct liner system.

G. Design Equipment: Knauf Atmosphere.

H. Acceptable Makes: Knauf Atmosphere, Certainteed ToughGard R.,.

I. For duct velocities above 4000 fpm, provide metal "build-outs" of proper height, welded to the ductwork for turning vanes and dampers.

2.12 CABLE SUSPENSION SYSTEM

A. Ductwork not required to be exterior insulated in exposed installations may be installed using a cable suspension system.

B. Ductwork shall be installed using load rated, stainless steel cable suspension systems. Cables shall be pre-cut lengths, type 316 stainless steel with fused ends, and pre-made end attachments.

C. Cable grips shall be of 316 stainless steel and have an internal tamperproof cable release mechanism.

D. Stress distribution saddles shall be prescribed in addition for the support of rectangular duct on corners as necessary.

E. Hangers shall have a manufacturer's published safe working load and have a 5 to 1 safety factor.

F. Hang and support ductwork as defined in the latest edition of SMACNA Manual, "HVAC Duct Construction Standards, Metal & Flexible".

G. Adjustable steel cable hanging system consisting of spring loaded, serrated clamping mechanism shall be tested and certified in compliance with all applicable SMACNA standards for upper and lower attachment methods.

1. All approved systems must be installed using matching components including steel cable, clamping mechanism and hardware approved by the manufacturer for its corresponding load rating. No Substitution of manufacturer's components is permitted.
2. Approved systems must be installed per the manufacturer's specific instructions and must not exceed the stated working load rating at any point throughout the system.

H. Supports, bar/angle reinforcements, and other products that are not part of the duct that are manufactured of uncoated mild steel shall either be painted with two (2) coats of primer or shall be manufactured of a galvanized equivalent material.

I. Approved Manufacturer: Ductmate Industries "Clutcher" Cable Hanging System or Gripple Inc.

2.13 DUCT ACCESSORY HARDWARE

A. Instrument Test Holes: Cast iron or cast aluminum to suit duct material, including screw cap and gasket. Size to allow insertion of pitot tube and other testing instruments and of length to suit duct-insulation thickness.

B. Ventlock 699 or 699-2 based upon insulation thickness.

C. Install duct test holes where required for duct traverse testing and balancing purposes.

PART 3 - EXECUTION

3.01 REQUIREMENTS

A. Equipment and systems shall be installed in accordance with local and state codes and regulations having jurisdiction. Bracing and hanging of ductwork shall be per SMACNA - HVAC Duct Construction Standard.

B. Install all ductwork concealed and tight to the structure above unless noted otherwise on shop drawings. Fabricate only after the approval of shop drawings, and in locations to avoid interferences. Ductwork installed without approved shop drawings, which requires removal/modification and/or reinstallation due to conflicts or improper installation shall be repaired at no cost to the Owner.

C. Sizes given on contract drawings are inside dimensions.

D. Keep openings continuously closed and sealed with protective plastic wrapping during construction to prevent entrance of dirt and debris.

E. Extend access openings, damper rods and levers, to outside of external insulation make systems airtight.

F. No piping, conduit or other obstruction to airflow is permitted in ductwork.

G. Provide necessary openings, hanger inserts, framing, chases, and recesses, not provided by other trades.

H. Exposed exhaust or return registers and grilles shall be flush with face of duct; exposed supply registers and grilles shall be mounted outside airstream with 45□ shoe-tap extension collars.

I. Provide 14 gauge sleeves for ducts passing through Mechanical Room floors. Set sleeves 4 in. above finished floor in Mechanical Rooms, seal watertight to floor.

J. Where a return or exhaust duct is shown to be left open ended, provide hardware mesh screen at opening.

K. Do not utilize flexible ductwork or connection in any way to connect variable or constant volume boxes to ductwork.

L. For duct penetrations of non-rated walls, provide sheet metal angle framing or sheet metal closure panels around the entire perimeter of each duct wall penetration on both sides of the wall, where the gap exceeds 1/4 inch. Where the gap is less than 1/4 inch, the gap may be caulked on both sides of the wall. Non-rated wall penetrations SHALL NOT be fire caulked under any circumstances.

M. For duct penetrations of rated walls, see Specification Section 230500 - Basic Mechanical and Electrical Requirements.

N. Ductwork that is called for to be welded shall be fully welded, continuous around the entire perimeter at all joints/seams, and shall be fully airtight and watertight.

3.02 FLEXIBLE CONNECTIONS

A. Provide flexible connections for the intake and discharge connections of duct connected to fans and air handling equipment.

B. Round connections are to be made with adhesive and metal drawbands with ends tightly bolted.

C. Rectangular connections shall be made with material securely held in grooved seam between flanges. Attach with adhesive and mechanical fasteners on 6 in. centers.

D. Connections shall be made with a minimum of 2 in. space between duct and equipment collars, installed in line, and with 1 in. excess material folded so as not to interfere with airflow through connection.

E. Mechanically fastened and sealed, with specified duct sealant, at duct and equipment connections.

3.03 FLEXIBLE AIR DUCTS AND CONNECTORS

A. "Air duct" applies to conduit or passageway for conveying air to or from heating, cooling, air conditioning or ventilating equipment but not including the plenum as defined in NFPA 90A. "Air connector" applies to conduit for transferring air between an air duct or plenum and an air terminal device or an air inlet or an air outlet as defined by the NFPA 90A.

B. For round to oval connections, provide round-oval flexible adapter.

C. Flexible air ducts and connectors shall be provided in fully extended condition, free from kinks.

D. Flexible air ducts and connectors shall not be used in systems with entering air temperatures in excess of 250°F.

E. Flexible air ducts and connectors shall use only the minimum length required to make the connection and shall be installed in the horizontal or vertical position. Flexible elbows are not acceptable. Do not exceed a maximum length of 48 in., fully extended.

F. Flexible air ducts and connectors shall use minimum 1/2 in. wide positive locking, steel worm drive clamp, or nylon plenum rated straps for joints and connections. One clamp or strap for the inside core liner and one clamp or strap for the outer jacketing. When non-metallic (nylon) straps are used, they should be listed and labeled to standard UL 181B. Fastener package should be marked UL 181 B-C.

G. Collars to which flexible duct is attached shall be beaded and a minimum of 2 in. in length. Wrap twice with UL 181 tape and secure with clamp or strap. Sleeves used for joining two sections of flexible duct shall be beaded and a minimum of 4 in. in length. The draw band shall be positioned behind the bead on the metal collar.

H. Outer vapor barrier and insulation shall be slid over inner core and collar, wrapped twice with UL 151 tape and secured with a clamp or strap.

I. Connections shall be per SMACNA "HVAC Duct Construction Standards - Metal and Flexible", Air Diffusion Council "Flexible Duct Performance and Installation Standards" and NAIMA Installation Standards.

J. Flexible duct shall be supported at manufacturer's recommended intervals, but no greater distance than 2'-6" on center and prior to all 90 degree bends. Maximum permissible sag shall be 1/2 in. per foot of support spacing. Provide a minimum of one hanger on each run of flexible duct.

K. A connection to rigid duct or equipment shall be considered a support joint. Long horizontal duct runs with sharp bends shall have additional supports before and after the bend approximately one duct diameter from the centerline of the bend.

L. Hanger or saddle material in contact with the flexible duct shall be of sufficient width to prevent any restriction of the internal diameter of the duct when the weight of the supported section rests on the hanger or saddle material. In no case shall the material contacting the flexible duct be less than 1-1/2 in. wide. Factory installed suspension systems integral to the flexible duct are an acceptable alternative hanging method when the manufacturer's recommended procedures are followed.

M. The hanger shall be strapped around the flexible duct and secured to the structure above. Hangers shall not be attached to other mechanical or electrical objects. Hangers may be attached to an approved trapeze. Ceiling grid shall not be used to fabricate a trapeze. Support hangers shall be installed horizontal. Screws shall not be used to penetrate the flexible duct to attach to the hanger.

N. Provide flexible duct connections and splices in accordance with manufacturer's recommended installation instructions.

O. Seal flexible duct connections with sealing materials listed and labeled in accordance with UL 181B. Mechanically secure connections with approved clamping materials.

3.04 TURNING VANES

A. Install only in square elbows of equal dimensions.

B. Install as per latest SMACNA Standards.

C. Secure vane runners to duct with spot welding, riveting or sheet metal screws.

D. When installing in ductwork with internal insulation.
   1. Install runners in ductwork inside insulation and bolt through insulation and duct sides, welding bolts to insure rigid installation. Provide build-outs for duct Velocity-Pressure classes above 2 in. w.g.

3.05 DUCT CLEANLINESS AND CLEANING AFTER INSTALLATION

A. Duct Cleanliness:
   1. All ductwork on the project shall meet the SMACNA Duct Cleanliness For New Construction Guidelines, "Advanced Level" of duct cleanliness for production, delivery, storage and installation of ductwork.
   2. Prior to shipment to the jobsite, all duct ends and openings must be covered with a heavy duty, dual-ply, clear polyethylene protective film. Open ends are to be kept covered during transport, storage, and installation. As ductwork is installed at the job site, open ends are to be covered to maintain cleanliness.
   3. The film must be securely affixed to protect against dirt and debris, and must be translucent to facilitate inspection of interior surfaces without removing the film. The film is have a elongation rating of 600% and a break strength of 13.1 lbs./in. The film shall contain no VOC's, and shall leave no residue on duct after removal.
   4. Manufacturer: Ductmate Industries ProGuard (heavy duty grade clear).

B. Cleaning After Installation:
   1. Interior surfaces shall be free of dust and debris prior to initial startup. Protect equipment which may be harmed by excessive dirt with filters, or bypass during cleaning. Provide adequate access into ductwork for cleaning purposes. Any cleaning of duct systems shall comply with recommendations of NAIMA and NADCA.
   2. Clean external surfaces of foreign substances that might cause corrosion, deterioration of the metal, or where ductwork is to be painted.
   3. Clean debris from system before fans are turned on.
   4. Keep openings continuously closed during the construction period.
   5. Pay damages resulting from dirt blown on painted or other finished surfaces.
   6. Repair or replace damaged fan wheels, dampers, or other system parts damaged as a result of debris.
   7. Clean system as many times as required until the entire system is dirt free.

3.06 INSTALLATION OF ROUND DUCTWORK

A. Use factory-fabricated couplings for joints.

B. After the joint is slipped together, sheet metal screws are placed 1/2 in. from the joint bead for mechanical strength.

C. Sealer is applied to the outside of the joint and covering the screw heads.

D. Flanged joints shall be made with neoprene rubber gaskets.

3.07 TEST OF DUCTWORK

A. Conduct duct leakage tests per SMACNA "HVAC Air Duct Leakage Test Manual" and per the requirements of the2020 Energy Conservation Construction Code of New York State, for ductwork systems as indicated below. Positive pressure leakage testing is acceptable for negative pressure ductwork. The rate of air leakage (CL) must be less than or equal to 4.0, as determined by the equation in the code referenced above, which reads: CL=F/P0.65 where F = measured leakage rate in CFM per 100 sq. ft. of duct surface, and P = static pressure of the test. When leakage above stated limits occurs, ascertain location of leaks and rebuild, repair, or seal the ductwork as required. Repeat tests as required to obtain allowable leakage rates. Prepare a report similar to that suggested by SMACNA and submit for review. Duct testing shall be conducted in the presence of the Owner's Representative.

B. Systems designed to operate at static pressures of 3.0 in. w.g. or greater: Representative sections totaling no less than 25% of the total duct area, per system, for the designated pressure class shall be tested as well as all associated ductwork located out-of-doors. All areas to be tested shall be coordinated with the engineer based on the approved ductwork shop drawings.

C. Provide test reports indicating pressure tests performed. Include date, section tested, test pressure and leakage rate.

D. Ductwork not required to be tested for leakage, shall be checked and guaranteed to meet the standards of the specified SMACNA Duct Seal Class A. Air balancing and testing shall be used to determine satisfactory operation of duct systems. Balancing reports indicating excessive leakage amounts shall be required to rebuild, repair or seal ductwork having excessive leakage.

3.08 DAMPERS AND AIR CONTROL DEVICES

A. Provide volume dampers at all air outlets, diffusers, grilles and as noted on plans. Provide volume dampers at all low pressure supply, return and exhaust, branch ducts and as noted on the plans.

B. Provide dampers necessary to permit proper balancing of air quantities. Comply with code requirements for smoke and fire control. Prevent introduction of uncontrolled outside air into building through roof and wall openings.

C. When dampers are installed in acoustically lined ductwork, install with insulated "build-outs" per SMACNA.

D. Install fire and smoke dampers in accordance with "Fire and Smoke Dampers" Section and applicable codes.

E. Install all dampers furnished as part of "Building Management System" Section.

3.09 ACCESS DOORS

A. Provide for access to upstream side of duct mounted reheat coils, dampers, damper motors, fire dampers, smoke dampers, smoke detectors, control devices, fan bearings, and equipment requiring periodic inspection or service. Provide labels for fire and smoke dampers as called for in Part 2 - Products.

B. For ducts that are too small to install an access door of the minimum specified size, provide a 12 in. long section of removable ductwork for maintenance and inspection access. Removable ductwork shall be fastened between device requiring access and next duct section with duct

flanges or Donaldson Torit clamp with PVC foam seal. For ducts that are required to be insulated, provisions shall be made to allow insulation to be easily removed and re-installed.

3.10 DUCT SUPPORTS

A. Provide per SMACNA, same material as duct. Hanger bands to extend down sides and turn under bottom 2 in. Minimum two metal screws per hanger. Angle iron on larger duct spaced per building structural system but not greater than 8 ft. Provide extra support angles as required.

B. Provide additional supports as required to support reheat coils, air terminal units, filter enclosures, and any other duct mounted equipment independent from the associated ductwork system.

3.11 ACOUSTIC-THERMAL DUCT LINING

A. Increase metal duct dimensions to accommodate lining. Adhere lining to interior side of duct; minimum 90% coverage of Benjamin Foster 85-20 fire retardant adhesive, UL approved. Stapling method of attaching will not be permitted. Mechanical fasteners shall not pierce the sheet metal. Installing fasteners with spacing as per SMACNA Standards. Multiple layers of liner to achieve indicated thickness is prohibited.

B. Abutting edges of acoustic linings shall be sealed with a fire resistant neoprene coating, and exposed edges of acoustic linings shall be installed with sheet metal nosing to prevent erosion.

C. Lining shall not impart odor to the air, delaminate or be loosened by the airstream under normal operating conditions. Lining which is damaged during fabrication or shipment shall not be installed.

D. Supply ductwork downstream of terminal units shall have 1-1/2 in. thick acoustical lining for a minimum of 10 feet. All air outlets shall be installed downstream of this minimum distance.

E. Provide 1-1/2 in. thick acoustical lining for a minimum of 10 feet upstream and downstream of all supply and return fans.

3.12 SMOKE DETECTION

A. Smoke detectors shall be furnished by Division 26 "Electrical". This Contractor shall install detectors located in ductwork. Clearly indicate locations of smoke detectors on the sheet metal shop drawings.

B. Increase duct size at smoke detectors, where required for proper installation, per smoke detector manufacturer's recommendations. Coordinate minimum duct size required with Division 26 "Electrical" .

3.13 DUCT SEALING

A. Preparation:
   1. Clean surfaces of dirt, oil, grease and loose of foreign matter that could impair adhesion, using soap and water or solvent.
   2. Allow surfaces to dry completely before proceeding.

B. Installation of Sealant System:
   1. Apply sealant system to duct joints, fasteners, and seams in accordance with manufacturer's instructions.
   2. Apply sealant by brush, putty knife or caulk gun, to full coverage. Remove excess adhesive immediately.
   3. Completely seal duct joint, fasteners and seams without voids, to a minimum 20 mil thick wet film.
   4. Apply and store at ambient temperature of 40□F to 100□F; and protect from freezing until dry.

C. Field Quality Control:
   1. Allow duct sealant system to cure a minimum of 72 hours before operating the system.

2. Do not apply external duct insulation or coatings until the joints have been inspected by the Owner's Representative.

3.14 EXHIBIT I - DUCTWORK MATERIALS

SERVICE	MATERIAL	SPECIAL REQUIREMENTS
Supply, return, vent, relief, outside and exhaust	Lock forming quality, galvanized steel ASTM A653 and A924, galvaneal/paint grip if not insulated and exposed	Joints and features as called for
Locker room exhaust duct systems in their entirety. Showers/Drying and as called for on plans	Aluminum	Aluminum fasteners
Accessories, dampers and air turns	Same material and gauge as parent duct	----------

END OF SECTION 23 31 00

SECTION 08 88 13
FIRE-RATED GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fire-rated glazing units.

B. Glazing compounds.

1.02 RELATED REQUIREMENTS

A. 08 80 00 - Glazing: For wired glass.

1.03 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; Current Edition.

B. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2019).

C. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.

D. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016 (Reapproved 2023).

E. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2022.

F. GANA (SM) - GANA Sealant Manual; 2008.

G. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

H. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.

I. UL 10B - Standard for Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

J. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

K. UL 263 - Standard for Fire Tests of Building Construction and Materials; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene preinstallation meeting one week before starting work of this section; require attendance by each of affected installers.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data on Glazing Unit Glazing Types: Provide structural, physical, and environmental characteristics, size limitations, special handling and installation requirements.

C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
   1. Provide certified glass products through ANSI accredited certifications that include plant audits and independent laboratory performance testing.
      a. Safety Glazing Certification Council (SGCC).

B. Installer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty for Heat Soaked Tempered Glass: Provide 5-year manufacturer warranty coverage for spontaneous breakage of fully tempered glass caused by nickel sulfide (NiS) inclusions, and commencing on the Date of Substantial Completion. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fire-Resistance-Rated Glass:
   1. Manufacturers:
      a. SAFTIFIRST, a division of O'Keeffe's Inc: www.safti.com/#sle.
      b. Pilkington North America Inc: www.pilkington.com/na/#sle.
      c. Vetrotech North America: www.vetrotechusa.com/#sle.
      d. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 GLASS MATERIALS

A. Float Glass: Provide float glass based glazing unless otherwise indicated.
   1. Kind FT - Fully Tempered Type: Comply with ASTM C1048.

2.03 GLAZING UNITS

A. For glazing in Vision Lites in fire rated doors: See section 08 80 00 - Wire glass.

B. Fire-Resistance-Rated Glazing: Type, thickness, and configuration of glazing that contains flames, smoke, and blocks radiant heat, as required to achieve indicated fire rating period exceeding 45 minutes.
   1. Applications:
      a. Glazing in fire-rated door assembly.
   2. Glass Type: Tempered glass outer layers filled with semi-solid fire retardant.
   3. Safety Glazing Certification: 16 CFR 1201 Category II.
   4. Glazing Method: As required for fire rating.
   5. Fire Rating Period: As indicated on drawings.
   6. Markings for Fire-Resistance-Rated Glazing Assemblies: Provide permanent markings on fire-resistance-rated glazing in compliance with ICC (IBC), local building code, and authorities having jurisdiction.
      a. "W" - meets wall assembly criteria of ASTM E119 or UL 263 fire test standards.
      b. "D" - meets fire door assembly criteria of NFPA 252, UL 10B, or UL 10C fire test standards.
      c. "H" - meets fire door assembly hose stream test of NFPA 252, UL 10B, or UL 10C fire test standards.
      d. 'T' - meets temperature rise of not more than 450 degrees F (250 degrees C) above ambient at end of 30 minutes fire exposure in accordance with NFPA 252, UL 10B, or UL 10C fire test standards.
      e. "XXX" - placeholder that represents fire rating period, in minutes.

2.04 ACCESSORIES

A. Setting Blocks: Aluminum silicate, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot (25 mm for each square meter) of glazing or minimum 4 inch (100 mm) by width of glazing rabbet space minus 1/16 inch (1.5 mm) by height to suit glazing method and pane weight and area.

B. Glazing Tape: Flexible tape made from spun calcium-magnesium-silica fibers in binder; designed to remain stable at temperatures up to 2,012 degrees F (1,100 degrees C).
   1. Thickness: As recommended by framing manufacturer for glazing application.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.

B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.

3.02 INSTALLATION - GENERAL

A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers unless more stringent requirements are indicated, including those in referenced glazing standards.

B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.

C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.

D. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.

E. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.

F. Prevent glass from contact with contaminating substances that may result from construction operations including, but not limited to weld spatter, fire-safing, plastering, mortar droppings, etc.

3.03 INSTALLATION - DRY GLAZING METHOD (TAPE AND TAPE)

A. Application - Interior Glazed: Set glazing infills from interior of building.

B. Cut glazing tape to length and set against permanent stops, projecting 1/16 inch (1.6 mm) above sightline.

C. Place setting blocks at 1/4 points with edge block no more than 6 inches (152 mm) from corners.

D. Rest glazing on setting blocks and push against tape for full contact at perimeter of pane or unit.

E. Place glazing tape on free perimeter of glazing in same manner described above.

F. Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.

G. Carefully trim protruding tape with knife.

3.04 FIELD QUALITY CONTROL

A. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.

3.05 CLEANING

A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.

B. Remove nonpermanent labels immediately after glazing installation is complete.

C. Clean glass and adjacent surfaces after sealants are fully cured.

D. Clean glass on both exposed surfaces not more than four days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

END OF SECTION 08 88 13

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POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

TOWN OF MONTGOMERY
POLICE DEPARTMENT
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ME ENGINEERING
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MECHANICAL ENGINEER:

LANC & TULLY Engineering and Surveying, P.C.
P.O. Box 687, Rt. 207 Goshen, N.Y. 10924
(845) 294-3700

CIVIL ENGINEER:

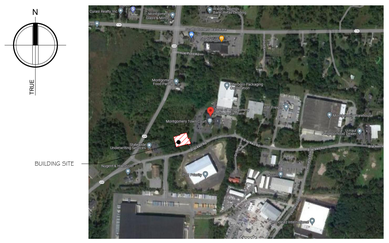
C

LEGEND:

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- NEW WALL
- EXISTING DOOR TO REMAIN
- NEW DOOR
- EXISTING DOOR TO BE REMOVED
- 101 — DOOR TAG
- Room name — ROOM DESIGNATION TAG
- H — WALL TYPE TAG
- A — WINDOW TAG
- ? — FINISH TAG
- ? — KEY NOTE
- EXISTING WALL MODIFIED TO ACHIEVE REQ'D FIRE RESISTANCE
- B105 — PERSONNEL DOOR TAG @ BASEMENT FL LEVEL
- 1005 — PERSONNEL DOOR TAG @ FIRST FL LEVEL
- 2005 — PERSONNEL DOOR TAG @ SECOND FL LEVEL
- SD05 — STOREFRONT TAG @ FIRST FL LEVEL
- DW05 — DEMOUNTABLE GLASS TAG @ FIRST FL LEVEL
- 1 Ref / A101 / SIM / Ref — ELEVATION TAG
- 1 / A101 — WALL/BUILDING SECTION CUT
- 1 / A101 / SIM — DETAIL TAG

ABBREVIATIONS:

AB.	ANCHOR BOLT
A.C.T.	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISH FLOOR
APPX.	APPROXIMATE
ARCH.	ARCHITECT
BSMT.	BASEMENT
BM	BEAM
BD	BOARD
BOT.	BOTTOM
BLDG.	BUILDING
CAB.	CABINET
CLG.	CEILING
C.T.	CERAMIC TILE
CIR.	CIRCLE
COL	COLUMN
C.J.	CONTROL JOINT
CORR.	CORRIDOR
D.L.	DEAD LOAD
DTL.	DETAIL
DIAM.	DIAMETER
DIM.	DIMENSION
D.W.	DISHWASHER
D.H.	DOUBLE HUNG
D.S.	DOWNSPOUT
DWG.	DRAWING
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXT.	EXTERIOR
E.I.F.S	EXTERIOR INSULATED FINISH SYSTEM
FIN.	FINISH
F.P.	FIREPLACE
FLR	FLOOR
F.D.	FLOOR DRAIN
FTG.	FOOTING
FND.	FOUNDATION
FUR.	FURRED
G.C.	GENERAL CONTRACTOR
GL.	GLASS, GLAZING
GYP.BD	GYPSUM BOARD
HDW.	HARDWARE
HDR.	HEADER
HTG.	HEATING
HVAC	HEATING/VENTILATION/AIR CONDITIONING
HGT.	HEIGHT
HORZ.	HORIZONTAL
HB.	HOSE BIBB
INS.	INSULAT(ED), (ION)
JT.	JOINT
JST.	JOIST
KIT	KITCHEN
LAV.	LAVATORY
LT.	LIGHT
L.L.	LIVE LOAD
MFR.	MANUFACTURE(R)
MAS.	MASONRY
MAT.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MTL	METAL
NOM.	NOMINAL
N.T.S	NOT TO SCALE
O.C.	ON CENTER
O.H.	OVERHEAD
PTD.	PAINTED
P. LAM.	PLASTIC LAMINATE
PL.	PLATE
P.S.F.	POUNDS PER SQ. FOOT
P.S.I.	POUNDS PER SQ. INCH.
PREFAB	PREFABRICATED
P.T.	PRESSURE TREATED (WOOD)
RAD.	RADIUS
RLG.	RAILING
REF.	REFRIGERATOR
REINF.	REINFORCE(D), (ING)
REV.	REVIS(ION), (E), (ED)
R.	RISER
RFG.	ROOFING
RM.	ROOM
SEC.	SECTION
SHTHG.	SHEATHING
SHT.	SHEET
SIM	SIMILAR
S.C.	SOLID CORE
SPEC.	SPECIFICATION
SQ.	SQUARE
STD.	STANDARD
STO.	STORAGE
STRL.	STRUCTURAL
THK	THICKNESS
THR.	THRESHOLD
T&G	TONGUE AND GROOVE
T.O.C.	TOP OF CONCRETE
T.O.B.	TOP OF BEAM
T.O.F.	TOP OF FOUNDATION
T.O.P.	TOP OF PLATE
TR	TREAD
TYP.	TYPICAL
UNF.	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
V.B.	VAPOR BARRIER
VERT.	VERTICAL
V.I.F.	VERIFY
W.C.	WATER CLOSET
W.P.	WATER PROOFING
W.R.	WATER RESISTANT
WWF.	WELDED WIRE FABRIC
WN.	WINDOW
W/O	WITHOUT
WD.	WOOD



BUILDING LOCATION AERIAL

BUILDING LOCATION

SCOPE OF WORK:

NEW CONSTRUCTION OF A POLICE STATION FOR THE TOWN OF MONTGOMERY.

I. FIRST FLOOR:
  1. 6,597 S.F POLICE STATION.

II. SECOND FLOOR:
  1. 1,881 S.F. OFFICES, MECHANICAL ROOM, STORAGE AND CONFERENCE ROOM.

III. GENERAL CODE DATA:
  1. OCCUPANCY CLASSIFICATION:
    POLICE STATION: B
    RECORDS/ STORAGE: S-1
    EQUIPMENT ROOMS: U
  2. CONSTRUCTION CLASSIFICATION: TYPE IIB

IV. STRUCTURE:
  1. FOOTINGS/FOUNDATION: SPREAD FOOTINGS OVER COMPACTED SOIL.
  2. 1ST FLOOR SLAB: CONCRETE SLAB ON GRADE
  3. 2ND FLOOR: STEEL FRAME
  4. ROOF: EPDM W/ METAL ROOF @ CANOPIES
  5. GENERAL: STEEL FRAME WITH ACM AND MASONRY VENEER FACADE.

V. EGRESS:
  1. 1ST FLOOR: DOORS TO GRADE OR EXTERIOR STAIR; ACCESSIBLE - 100%
  2. 2ND FLOOR: EXIT ACCESS STAIR TO FIRST FLOOR, NOT ACCESSIBLE

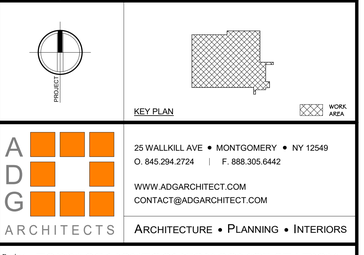
VI. ADDITIONAL CONSTRUCTION DOCUMENTS
  1. SPECIFICATION BOOK
  2. GEOTECHNICAL REPORT
  3. COMCHECK
  4. A-600 DRAWINGS ARE PROVIDED FOR GENERAL CONSTRUCTION DETAILING AND WILL NOT PRECEDE VARIUS MANUFACTURING DETAILS. NOT ALL DETAILS MAY BE PERTINENT. CONTRACTOR TO BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND INSTALL ITEMS AS PER MANUFACTURERS SPECIFICATIONS.

C

REVISIONS:

NUM.	DATE	DESCRIPTION
C	05/02/25	ADDENDUM 4

100% **BID DOCUMENTS**



ADG ARCHITECTS
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ARCHITECTURE • PLANNING • INTERIORS

Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

Drawing: TITLE SHEET

REGISTERED ARCHITECT
JASON T. ANDERSON
033127
STATE OF NEW YORK
05/02/2025
Exp. 02/28/2026

Project:	23138	Date:	02/24/25
Drawn:	IDEA	Scale:	AS NOTED

Drawing Number: A-001

SHEET LIST TABLE

SHT.	SHEET TITLE	DRAWING DATE	100% CONSTRUCTION DOCUMENT	REVISION HISTORY A 04/17/25	B 04/25/25	C 05/02/25	D MM/DD/YY	F MM/DD/YY	G MM/DD/YY	CURRENT REVISION Rev. #	DATE	DESCRIPTION	ISSUED (Y/N)
ARCHITECTURAL													
A-001	TITLE SHEET	02/24/25	100%			●				C	05/02/25	ADDENDUM 4	YES
A-002	DRAWING LIST	02/24/25	100%	●	●	●				C	05/02/25	ADDENDUM 4	YES
A-003	CODE SHEET	02/24/25	100%										YES
A-004	BUILDING DIAGRAMS	02/24/25	100%										YES
A-005	FIRST FLOOR LIFE SAFETY PLAN	02/24/25	100%	●						A	04/17/25	ADDENDUM 2	YES
A-006	SECOND FLOOR LIFE SAFETY PLAN	02/24/25	100%										YES
A-007	LIFE SAFETY SECTION	02/24/25	100%										YES
A-008	LIFE SAFETY SECTION	02/24/25	100%										YES
A-009	ACCESSIBLE TYPICAL DETAILS	02/24/25	100%										YES
A-010	STAGING/SCOPING PLAN	04/17/25	100%									ADDENDUM 2	YES
A-100-ED	EXISTING/DEMOLITION BENCH PLAN	02/24/25	100%	●						A	04/17/25	ADDENDUM 2	YES
A-200	TYPICAL WALL TYPES	02/24/25	100%			●				C	05/02/25	ADDENDUM 4	YES
A-201	FIRST FLOOR PLAN	02/24/25	100%	●	●	●				C	05/02/25	ADDENDUM 4	YES
A-202	SECOND FLOOR PLAN	02/24/25	100%			●				C	05/02/25	ADDENDUM 4	YES
A-203	ENLARGED MENS , WOMENS TOILET , LOCKER ROOM & BOOKING	02/24/25	100%										YES
A-204	FIRST FLOOR RCP	02/24/25	100%	●						A	04/17/25	ADDENDUM 2	YES
A-205	SECOND FLOOR RCP	02/24/25	100%										YES
A-206	ROOF PLAN	02/24/25	100%										YES
A-300	NORTH & SOUTH EXTERIOR ELEVATIONS	02/24/25	100%										YES
A-301	WEST & EAST EXTERIOR ELEVATIONS	02/24/25	100%										YES
A-400	BUILDING SECTIONS	02/24/25	100%										YES
A-401	BUILDING SECTIONS	02/24/25	100%										YES
A-402	BUILDING SECTIONS	02/24/25	100%										YES
A-403	SOUTH WALL SECTION & DETAILS	02/24/25	100%										YES
A-404	EAST WALL SECTION @ SILL AND HEADER DETAILS	02/24/25	100%										YES
A-405	EAST WALL STOREFRONT SECTION & DETAILS	02/24/25	100%										YES
A-406	EAST WALL SECTION AND DETAILS	02/24/25	100%										YES
A-407	WEST WALL ELEVATION & SECTION	02/24/25	100%										YES
A-408	NORTH WALL SECTION & DETAILS	02/24/25	100%										YES
A-409	VESTIBULE SECTION & DETAILS	02/24/25	100%										YES
A-410	WALL SECTION AND DETAILS @ PYLON	02/24/25	100%										YES
A-411	STAIR PLAN AND SECTIONS	02/24/25	100%										YES
A-412	STAIR DETAILS	02/24/25	100%										YES
A-413	ROOF STAIR PLAN AND SECTION	02/24/25	100%										YES
A-500	WOMENS TOILET # 115, LOCKER # 119 & TRANSFER TOILET 1.58 INT. ELEVATION	02/24/25	100%										YES
A-501	MENS TOILET # 115 INTERIOR ELEVATIONS	02/24/25	100%										YES
A-502	TOILET # 133, TOILET # 134 & JANITORS CLO. # 117 INT. ELEV.	02/24/25	100%										YES
A-503	MENS LOCKER # 116 INTERIOR ELEVATION	02/24/25	100%										YES
A-504	BREAK ROOM INTERIOR ELEVATION	02/24/25	100%	●						A	04/17/25	ADDENDUM 2	YES
A-505	LOBBY INTERIOR ELEVATION	02/24/25	100%										YES
A-506	LOBBY INTERIOR ELEVATION	02/24/25	100%										YES
A-507	EVIDENCE PROCESSING & BOOKING INT. ELEV.	02/24/25	100%										YES
A-508	LOW PARTITION INTERIOR ELEVATIONS	02/24/25	100%										YES
A-509	VESTIBULE INTERIOR ELEVATION	02/24/25	100%										YES
A-510	TRAINING ROOM INTERIOR ELEVATIONS	02/24/25	100%										YES
A-511	NEW BENCH PLAN & ELEVATIONS	02/24/25	100%										YES
A-600	FIRE RATED DETAILS	02/24/25	100%										YES
A-601	CONDUIT DETAILS	02/24/25	100%										YES
A-602	MOISTURE BARRIER DETAILS	02/24/25	100%										YES
A-603	METAL FRAMING DETAILS	02/24/25	100%										YES
A-604	MASONRY DETAILS	02/24/25	100%										YES
A-605	TILE SCHLUTER DETAILS	02/24/25	100%										YES
A-606	MILLWORK DETAILS	02/24/25	100%										YES
A-607	DOOR DETAILS	02/24/25	100%										YES
A-608	WINDOW DETAILS	02/24/25	100%										YES
A-609	EPDM ROOF DETAILS	02/24/25	100%										YES
A-610	EPDM ROOF DETAILS	02/24/25	100%										YES
A-611	EPDM ROOF DETAILS	02/24/25	100%										YES
A-612	ROOFING DETAILS	02/24/25	100%										YES
A-613	ACM DETAILS	02/24/25	100%										YES
A-614	ACM DETAILS	02/24/25	100%										YES
A-615	ACM DETAILS	02/24/25	100%										YES
A-616	MULLION MATE DETAILS	02/24/25	100%										YES
A-617	CURTAIN WALL DETAILS	02/24/25	100%										YES
A-618	TOILET PARTITION DETAILS	02/24/25	100%										YES
A-619	CANOPY DETAILS	02/24/25	100%										YES
A-620	COMMERCIAL SITE DETAILS	02/24/25	100%										YES
A-621	DOOR & WINDOW FLASHING SEQUENCE	02/24/25	100%										YES
A-622	CEILING DETAILS	02/24/25	100%										YES
A-623	WALL TRANSITION DETAIL @ STOREFRONT DETAILS	02/24/25	100%										YES
A-624	TYPICAL STAIR DETAILS	02/24/25	100%										YES
A-625	DRAIN-N-DRY LATH DETAILS	02/24/25	100%										YES
A-626	DOOR DETAILS	02/24/25	100%										YES
A-700	FIRST FLOOR FINISH PLAN	02/24/25	100%	●	●					B	04/25/25	ADDENDUM 3	YES
A-701	SECOND FLOOR FINISH PLAN	02/24/25	100%										YES
A-702	FINISH SCHEDULE	02/14/25	100%	●						A	04/17/25	ADDENDUM 2	YES
A-703	FIRST FLOOR PAINT PLAN	02/24/25	100%	●	●					B	04/25/25	ADDENDUM 3	YES
A-704	SECOND FLOOR PAINT PLAN	02/24/25	100%										YES
A-600	DOORS & WINDOW SCHEDULE	02/24/25	100%		●					B	04/25/25	ADDENDUM 3	YES
A-601	CURTAIN WALL SCHEDULE	02/24/25	100%			●				C	05/02/25	ADDENDUM 4	YES
A-602	CURTAIN WALL SCHEDULE	02/24/25	100%			●				C	05/02/25	ADDENDUM 4	YES
A-603	CURTAIN WALL SCHEDULE	02/24/25	100%			●				C	05/02/25	ADDENDUM 4	YES
A-604	CURTAIN WALL SCHEDULE	02/24/25	100%			●				C	05/02/25	ADDENDUM 4	YES
A-605	STOREFRONT SCHEDULE	02/24/25	100%			●				C	05/02/25	ADDENDUM 4	YES
A-900	FIRST FLOOR FURNITURE PLAN	02/24/25	100%	●	●					B	04/25/25	ADDENDUM 3	YES
A-901	SECOND FLOOR FURNITURE PLAN	02/24/25	100%										YES
A-902	INTERIOR SIGN SCHEDULE	02/24/25	100%	●	●					B	04/25/25	ADDENDUM 3	YES
A-903	FIRST FLOOR IT-AV PLAN	02/24/25	100%	●	●					B	04/25/25	ADDENDUM 3	YES
A-904	SECOND FLOOR IT-AV PLAN	02/24/25	100%	●						A	04/17/25	ADDENDUM 2	YES
A-905	EXTERIOR RENDERING	02/24/25	100%										YES
A-906	INTERIOR RENDERING	02/24/25	100%										YES
A-907	INTERIOR RENDERING	02/24/25	100%										YES
CIVIL													
1	EXISTING CONDITIONS AND REMOVAL PLAN	01/14/25	100%	●						A	04/17/25	ADDENDUM 2	YES
2	SITE PLAN	01/14/25	100%	●	●					B	04/25/25	ADDENDUM 3	YES
3	GRADING AND UTILITY PLAN	01/14/25	100%	●	●					B	04/25/25	ADDENDUM 3	YES
4	EROSION AND SEDIMENT CONTROL PLAN	01/14/25	100%	●	●					B	04/25/25	ADDENDUM 3	YES
5	CONSTRUCTION DETAILS 1	01/14/25	100%										YES
6	CONSTRUCTIONS DETAILS 2	01/14/25	100%										YES
B-401	RETAINING WALL PLAN	01/14/25	100%										YES
B-402	SEGEMENTAL RETAINING WALL - SPECIFICATIONS AND NOTES	01/14/25	100%										YES
STRUCTURAL													
S-001	NOTES	02/24/25	100%										YES
S-002	NOTES	02/24/25	100%										YES
S-003	SPECIAL INSPECTIONS	02/24/25	100%										YES
S-100	FOUNDATION	02/24/25	100%										YES
S-101	LOW ROOF FRAMING	02/24/25	100%										YES
S-102	HIGH ROOF PLAN	02/24/25	100%										YES
S-200	FOUNDATION DETAILS	02/24/25	100%										YES
S-201	FOUNDATION/FRAMING DETAILS	02/24/25	100%										YES
S-300	SECTIONS AND DETAILS	02/24/25	100%										YES
S-301	SECTION AND DETAILS	02/24/25	100%										YES
S-302	SECTIONS AND DETAILS	02/24/25	100%										YES
S-303	SECTIONS AND DETAILS	02/24/25	100%										YES
MECHANICAL													
M-001	HVAC GENERAL NOTES, SYSTEMS & ABBREVIATIONS	02/24/25	100%										YES
M-101	FIRST FLOOR PLAN - HVAC	02/24/25	100%		●	●				C	05/02/25	ADDENDUM 4	YES
M-102	SECOND FLOOR & ROOF PLAN - HVAC	02/24/25	100%										YES
M-501	HVAC DETAILS	02/24/25	100%										YES
M-701	HVAC SCHEDULES	02/24/25	100%										YES
ELECTRICAL													
E-001	ELECTRICAL LEGEND & ABBREVIATIONS	02/24/25	100%	●						A	04/17/25	ADDENDUM 2	YES
E-002	ELECTRICAL SITE PLAN	02/24/25	100%										YES
E-101	FIRST FLOOR PLAN - POWER & SYSTEMS	02/24/25	100%										YES
E-102	SECOND FLOOR PLAN - POWER & SYSTEMS	02/24/25	100%										YES
E-201	FIRST FLOOR PLAN - LIGHTING	02/24/25	100%										YES
E-202	SECOND FLOOR PLAN - LIGHTING	02/24/25	100%	●						A	04/17/25	ADDENDUM 2	YES
E-601	ELECTRICAL ONELINE DIAGRAM	02/24/25	100%	●						A	04/17/25	ADDENDUM 2	YES
E-701	ELECTRICAL SCHEDULES & DETAILS	02/24/25	100%										YES
E-702	ELECTRICAL DETAILS	02/24/25	100%										YES
PLUMBING													
P-001	GENERAL NOTES & SYMBOLS LIST	02/24/25	100%										YES
P-002	PLUMBING SITE PLAN	02/24/25	100%										YES
P-100	UNDERSLAB PLAN - PLUMBING	02/24/25	100%										YES
P-101S	FIRST FLOOR PLAN - PLUMBING DWV	02/24/25	100%										YES
P-101W	FIRST FLOOR PLAN - PLUMBING	02/24/25	100%										YES
P-102	SECOND FLOOR - PLUMBING	02/24/25	100%										YES
P-103	ROOF PLAN - PLUMBING	02/24/25	100%										YES
P-501	DETAILS	02/24/25	100%										YES
P-502	DETAILS	02/24/25	100%										YES
P-503	DETAILS	02/24/25	100%										YES
P-504	DETAILS	02/24/25	100%										YES

REVISIONS:

NUM.	DATE	DESCRIPTION
A	04/17/25	ADDENDUM 2
B	04/25/25	ADDENDUM 3
C	05/02/25	ADDENDUM 4

100% **BID DOCUMENTS**

PROJECT

KEY PLAN — WORK AREA

ADG ARCHITECTS

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CONTACT@ADGARCHITECT.COM

ARCHITECTURE • PLANNING • INTERIORS

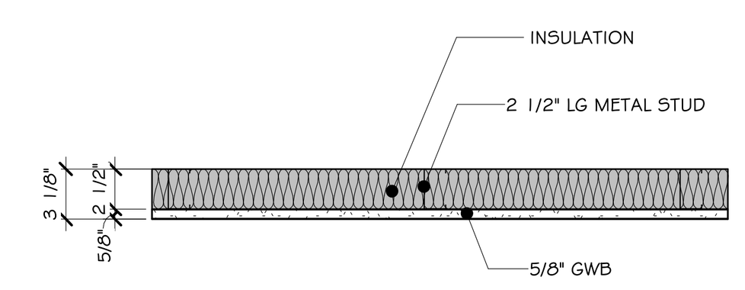
Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

Drawing: DRAWING LIST

REGISTERED ARCHITECT JASON T. ANDERSON 033127 STATE OF NEW YORK
05/02/2025
Exp. 02/28/2026

Project:	23138	Date:	02/24/25
Drawn:	IDEA	Scale:	AS NOTED

Drawing Number: A-002

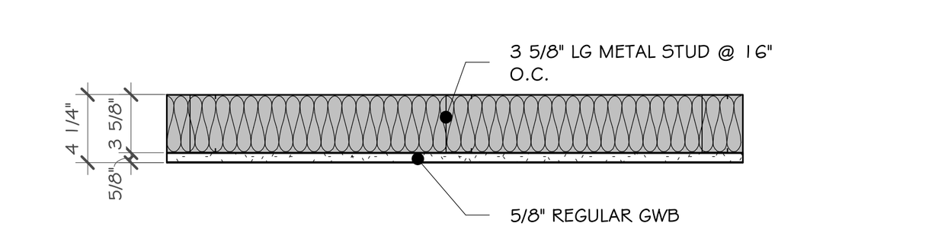


SPECIFICATION:

3.01 LIGHT GAUGE METAL FRAMED WALL SYSTEMS

A. Wall Type 200
1. Wall Type 200, LGMF wall, 2-1/2" LGM stud, 5/8" regular GWB one side, Insulated
a. 2-1/2" deep leg deflection track (for walls that attach to structure above)
b. 'U' shaped track / runner
1. Extend 1'-0" above adjacent ceilings.
c. LG metal stud
d. 'U' shaped bottom track / runner
e. Lateral bracing, pre-notched spacer bar
f. Mineral wool insulation
g. 5/8" regular GWB
h. All studs to be 25g unless noted otherwise.
1. Walls that have ADA accessories and / or cabinetry use Flush-Mount Backing; on minimum 20g studs @ 16" o.c.
i. All studs space 16" on center unless noted otherwise.
1. Use 5/8" MR GWB in all wet areas.
2. Use 5/8" cement board behind wall tile.
3. Use 5/8" thick waterproof Schluter-KERDI-BOARD in shower areas where indicated.

WALL "TYPE 200"

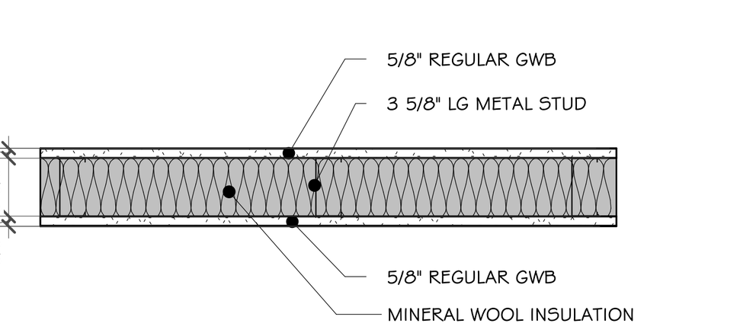


SPECIFICATION:

3.01 LIGHT GAUGE METAL FRAMED WALL SYSTEMS

B. Wall Type 202
1. Wall Type 202, LGMF wall, 3-5/8" LGM stud, 5/8" regular GWB one side, insulated
a. 2-1/2" deep leg deflection track (for walls that attach to structure above)
b. 'U' shaped track / runner
1. Extend 1'-0" above adjacent ceilings.
c. 3-5/8" LG metal stud
d. 'U' shaped bottom track / runner
e. Mineral wool insulation
f. Lateral bracing, pre-notched spacer bar
g. 5/8" regular GWB
1. All studs to be 25g unless noted otherwise.
2. Walls that have ADA accessories and / or cabinetry use Flush-Mount Backing; on minimum 20g studs @ 16" o.c.
3. All studs space 16" on center unless noted otherwise.
4. Use 5/8" MR GWB in all wet areas.
5. Use 5/8" cement board behind wall tile.
6. Use 5/8" thick waterproof Schluter-KERDI-BOARD in shower areas where indicated.

WALL "TYPE 202"

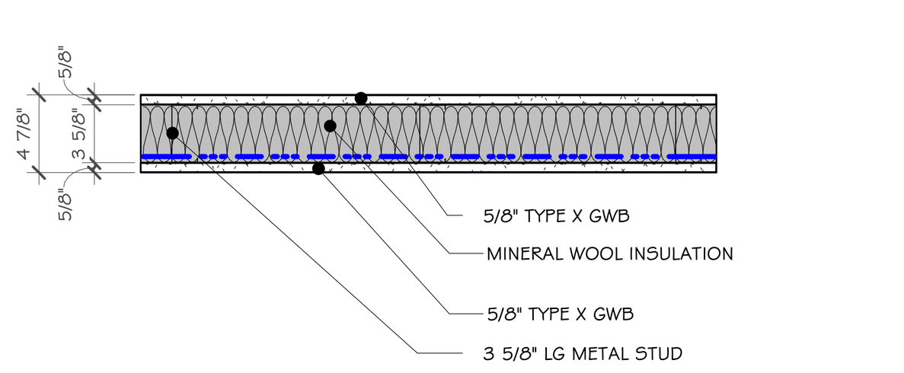


SPECIFICATION:

3.01 LIGHT GAUGE METAL FRAMED WALL SYSTEMS

C. Wall Type 204
1. Wall Type 204, LGMF wall, 3-5/8" LGM stud, 5/8" regular GWB both side, Insulated
a. 5/8" regular GWB
b. 2-1/2" deep leg deflection track (for walls that attach to structure above)
c. 'U' shaped track / runner
1. Extend 1'-0" above adjacent ceilings.
d. 3-5/8" LG metal stud
e. 'U' shaped bottom track / runner
f. Lateral bracing, pre-notched spacer bar
g. Mineral wool insulation
h. 5/8" regular GWB
1. All studs to be 25g unless noted otherwise.
2. Walls that have ADA accessories and / or cabinetry use Flush-Mount Backing; on minimum 20g studs @ 16" o.c.
3. All studs space 16" on center unless noted otherwise.
4. Use 5/8" MR GWB in all wet areas.
5. Use 5/8" cement board behind wall tile.
6. Use 5/8" thick waterproof Schluter-KERDI-BOARD in shower areas where indicated.

WALL "TYPE 204"

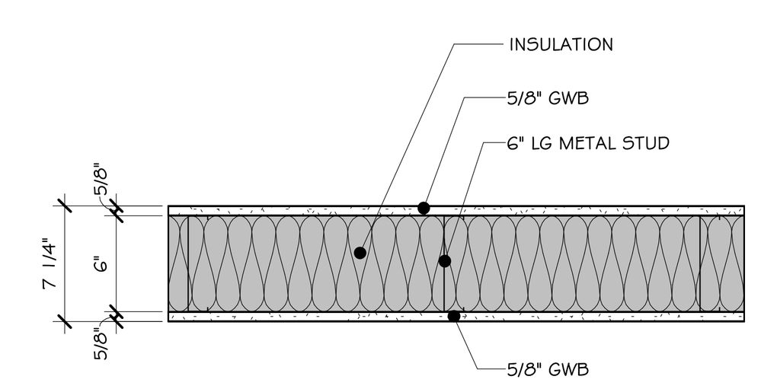


SPECIFICATION:

3.01 LIGHT GAUGE METAL FRAMED WALL SYSTEMS

D. Wall Type 206
1. Wall Type 206, LGMF wall, 3-5/8" LGM stud, 5/8" type X GWB both side, Insulated
a. 5/8" type X GWB.
b. 2-1/2" deep leg deflection track (for walls that attach to structure above)
c. 'U' shaped track / runner
1. Extend 1'-0" above adjacent ceilings.
d. 3-5/8" LG metal stud
e. 'U' shaped bottom track / runner
f. Lateral bracing, pre-notched spacer bar
g. Mineral wool insulation
h. 5/8" type X GWB.
i. All studs to be 25g unless noted otherwise.
1. Walls that have ADA accessories and / or cabinetry use Flush-Mount Backing; on minimum 20g studs @ 16" o.c.
j. All studs space 16" on center unless noted otherwise.
1. Use 5/8" MR GWB in all wet areas.
2. Use 5/8" cement board behind wall tile.
3. Use 5/8" thick waterproof Schluter-KERDI-BOARD in shower areas where indicated.
k. U.L. Rating: U419

WALL "TYPE 206"

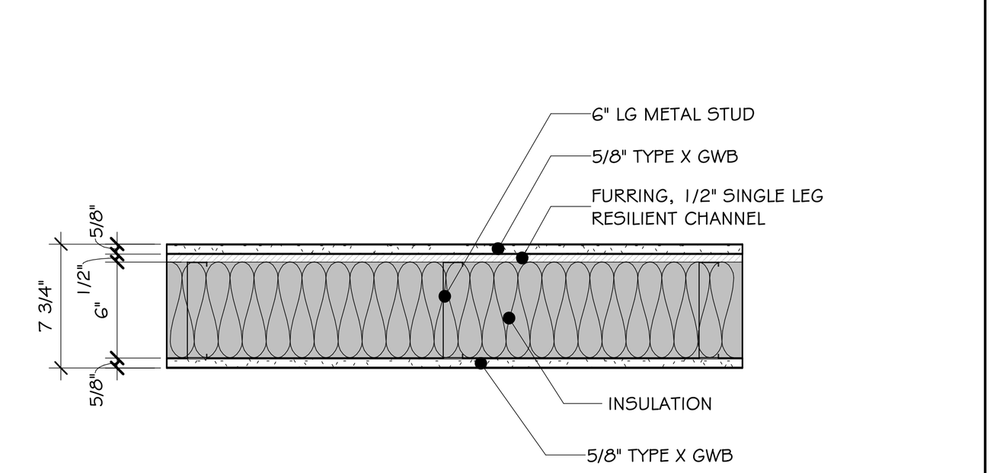


SPECIFICATION:

3.01 LIGHT GAUGE METAL FRAMED WALL SYSTEMS

E. Wall Type 209
1. Wall Type 209, LGMF wall, 6" LGM stud, 5/8" regular GWB both side, Insulated
a. 5/8" regular GWB
b. 2-1/2" deep leg deflection track (for walls that attach to structure above)
c. 'U' shaped track / runner
1. Extend 1'-0" above adjacent ceilings.
d. LG metal stud
e. 'U' shaped bottom track / runner
f. Lateral bracing, pre-notched spacer bar
g. Mineral wool insulation
h. 5/8" regular GWB
i. All studs to be 25g unless noted otherwise.
1. Walls that have ADA accessories and / or cabinetry use Flush-Mount Backing; on minimum 20g studs @ 16" o.c.
j. All studs space 16" on center unless noted otherwise.
1. Use 5/8" MR GWB in all wet areas.
2. Use 5/8" cement board behind wall tile.
3. Use 5/8" thick waterproof Schluter-KERDI-BOARD in shower areas where indicated.

WALL "TYPE 209"

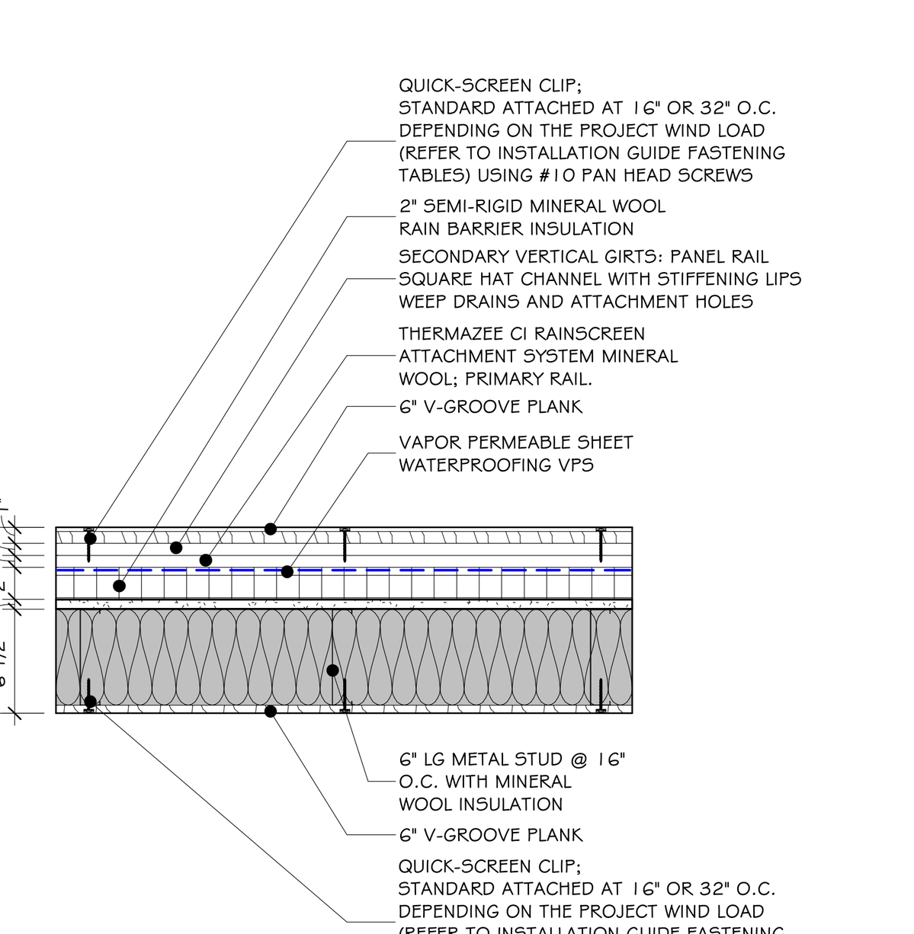


SPECIFICATION:

3.01 LIGHT GAUGE METAL FRAMED WALL SYSTEMS

F. Wall Type 211
1. Wall Type 211, Interior LGMF wall, 6" LGM stud, 5/8" Type X GWB both sides, 1/2" RC channel, insulated, 1hr rated, STC-50, U305
a. 5/8" type X GWB.
b. Furring, 1/2" Resilient channel
c. 2-1/2" deep leg deflection track (for walls that attach to structure above)
d. 'U' shaped track / runner
1. Extend 1'-0" above adjacent ceilings.
e. LG metal stud
f. 'U' shaped bottom track / runner
g. Lateral bracing, pre-notched spacer bar
h. Mineral wool insulation
i. 5/8" type X GWB.
j. All studs to be 25g unless noted otherwise.
1. Walls that have ADA accessories and / or cabinetry use Flush-Mount Backing; on minimum 20g studs @ 16" o.c.
k. All studs space 16" on center unless noted otherwise.
1. Use 5/8" MR GWB in all wet areas.
2. Use 5/8" cement board behind wall tile.
3. Use 5/8" thick waterproof Schluter-KERDI-BOARD in shower areas where indicated.

WALL "TYPE 211"

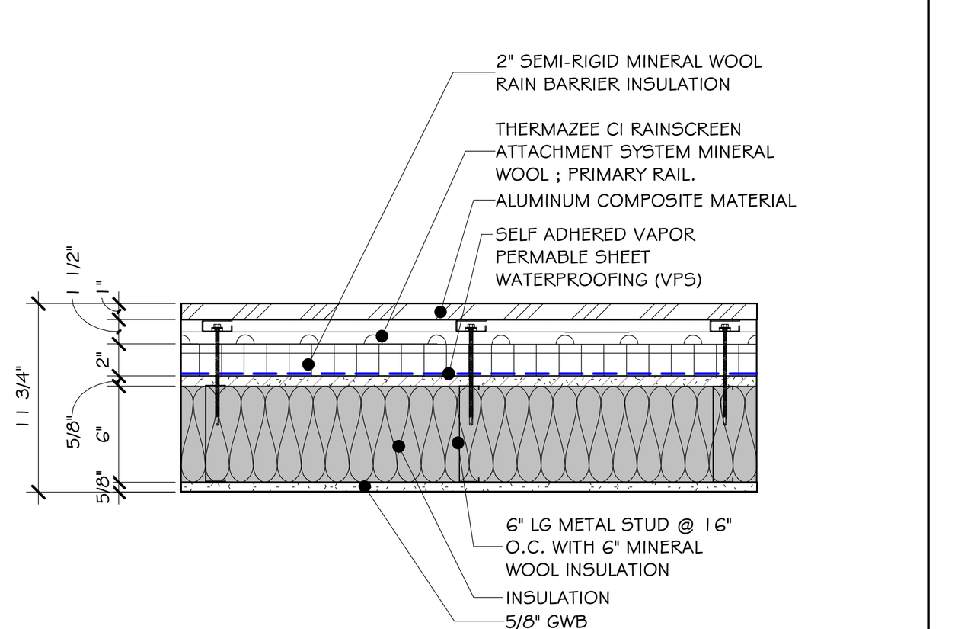


SPECIFICATION:

3.03 COLD FORMED METAL FRAMED WALL SYSTEMS

G. Wall Type 235
1. Wall type 235: Exterior CFM Framed wall, 6" CFM framing
6" V-Groove Planks one side, rain screen, 2" rigid insulation, 5/8" GWB, non-rated
a. Planks siding, dry system
b. Mineral Fiber continuous insulation (CI) rainscreen system.
c. 2" Semi-rigid mineral wool rain barrier insulation
d. Vapor permeable sheet waterproofing VPS
e. 5/8" Glass fiber reinforced gypsum sheathing
f. 'U' shaped top / bottom track.
g. Mineral wool insulation
h. 6" structural stud
i. 'U' shaped top / bottom track.
j. Wall stud bridging and spacer bar
k. 5/8" regular GWB
l. All studs to be 25g unless noted otherwise.
1. Walls that have ADA accessories and / or cabinetry use Flush-Mount Backing; on minimum 20g studs @ 16" o.c.
m. All studs space 16" on center unless noted otherwise.
1. Use 5/8" MR GWB in all wet areas.
2. Use 5/8" cement board behind wall tile.
3. Use 5/8" thick waterproof Schluter-KERDI-BOARD in shower areas where indicated.
n. Knightwall panel rail system (Vertical girts only)
o. U.L. Rating: None

WALL "TYPE 235

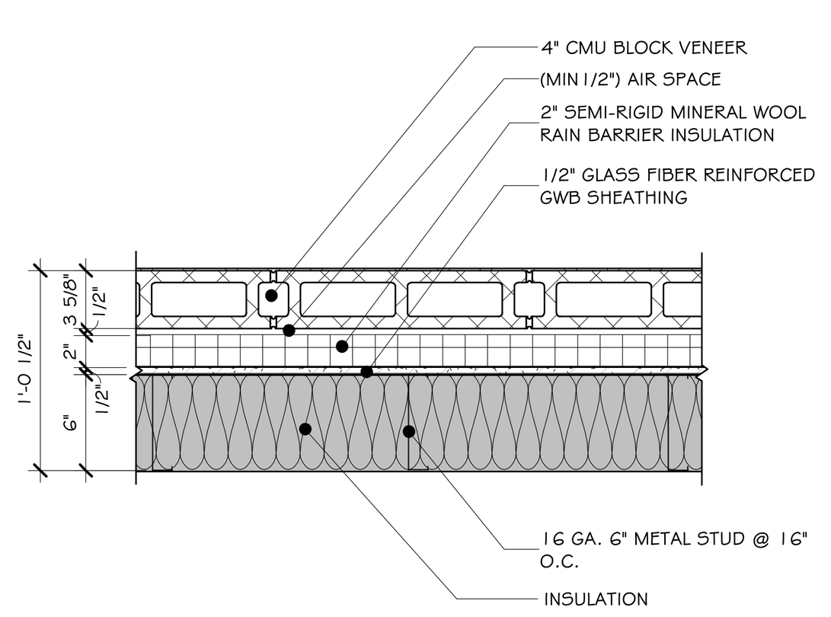


SPECIFICATION:

3.03 COLD FORMED METAL FRAMED WALL SYSTEMS

G. Wall Type 273
1. Wall type 273: Exterior CFM Framed wall, 6" CFM framing
ACM panel one side, rain screen, 2" rigid insulation, 5/8" GWB, non-rated
a. ACM cladding, dry system
b. Mineral Fiber continuous insulation (CI) rainscreen system.
c. 2" Semi-rigid mineral wool rain barrier insulation.
d. Vapor permeable sheet waterproofing VPS
e. 5/8" Glass fiber reinforced gypsum sheathing
f. 'U' shaped top / bottom track.
g. Mineral wool insulation
h. 6" structural stud
i. 'U' shaped top / bottom track.
j. Wall stud bridging and spacer bar
k. 5/8" regular GWB
l. All studs to be 25g unless noted otherwise.
1. Walls that have ADA accessories and / or cabinetry use Flush-Mount Backing; on minimum 20g studs @ 16" o.c.
m. All studs space 16" on center unless noted otherwise.
1. Use 5/8" MR GWB in all wet areas.
2. Use 5/8" cement board behind wall tile.
3. Use 5/8" thick waterproof Schluter-KERDI-BOARD in shower areas where indicated.
n. U.L. Rating: None

WALL "TYPE 273"

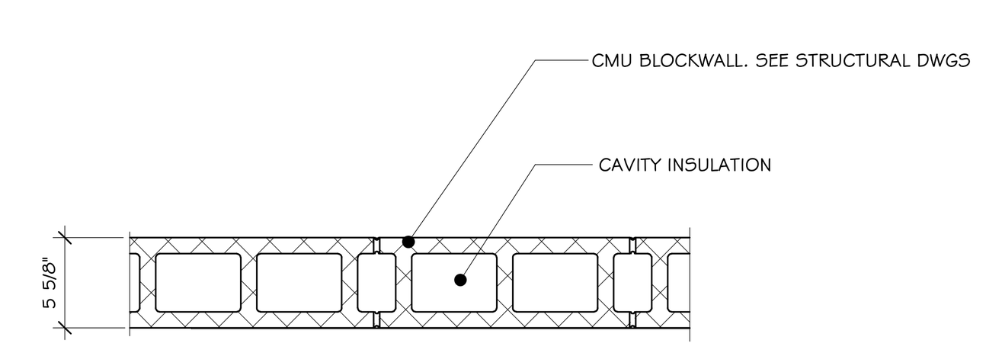


SPECIFICATION:

3.03 COLD FORMED METAL FRAMED WALL SYSTEMS

H. Wall Type 294
1. Wall Type 294, CFM wall, 4" CMU, 6" CFM stud, 1/2" Glass fiber reinforced GWB one side, VPS waterproofing, insulated, non-rated
a. 4" Block veneer
b. 1/2" Air space
c. Mineral Fiber continuous insulation (CI) rainscreen system.
d. 2" semi-rigid mineral wool rain barrier insulation.
e. Vapor permeable sheet waterproofing VPS
f. 1/2" Glass fiber reinforced gypsum
g. 'U' shaped top / bottom track
h. 6" Structural stud
i. 'U' shaped top / bottom track
j. Wall stud bridging and pre-notched spacer bar
k. Mineral wool insulation

WALL "TYPE 294"

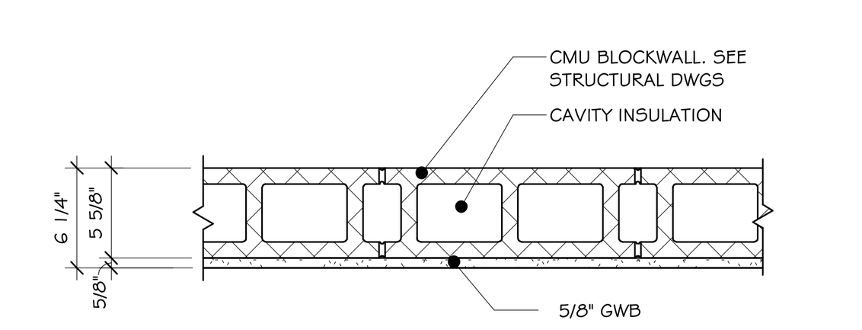


SPECIFICATION:

3.01 COLD FORMED METAL FRAMED WALL SYSTEMS

C. WALL TYPE 302
1. Wall type 302, 6" Face CMU, GacoProFill insulation.
a. 6"X8"X16" CMU ground face block,
b. Cavity insulation; GacoProFill

WALL "TYPE 302"

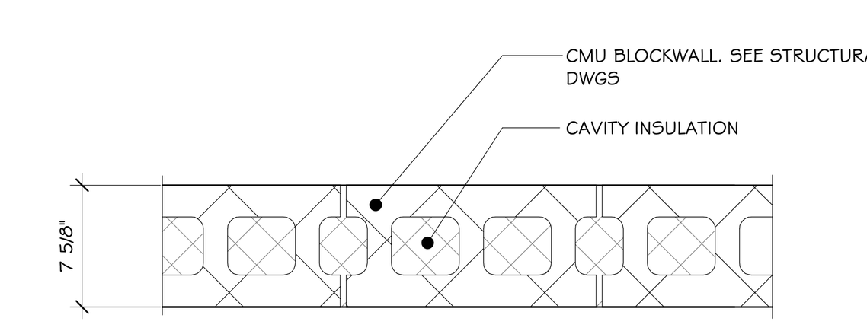


SPECIFICATION:

3.03 COLD FORMED METAL FRAMED WALL SYSTEMS

C. WALL TYPE 338
1. Wall type 338, 6" Face CMU, GacoProFill insulation.
a. 6"X8"X16" CMU ground face block,
b. Cavity insulation; GacoProFill
c. 5/8" regular GWB
1. Note: 5/8" MR GWB in all wet areas

WALL "TYPE 338"



SPECIFICATION:

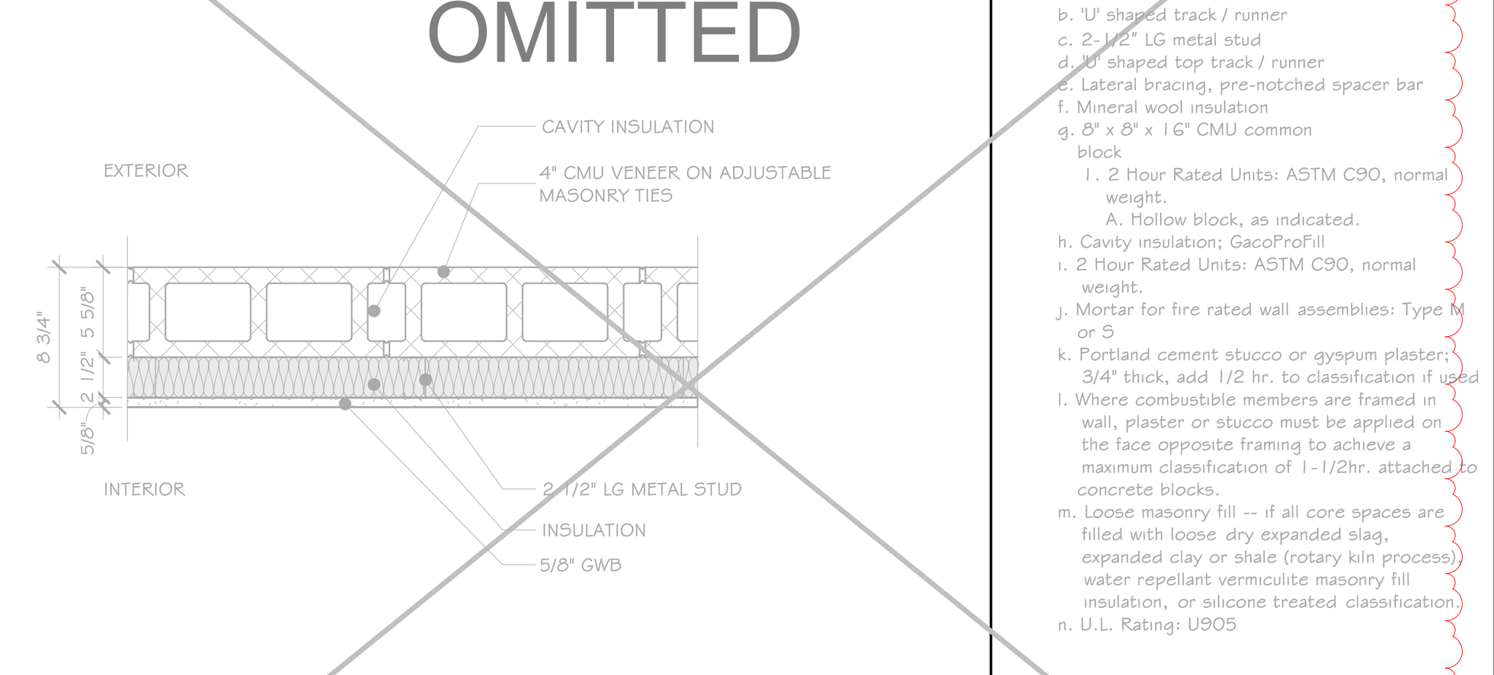
3.03 COLD FORMED METAL FRAMED WALL SYSTEMS

I. WALL TYPE 339
1. Wall type 339; 8" CMU, GacoProFill
a. 8"X8"X16" CMU common block1) Hollow block, as indicated.
b. Cavity insulation; GacoProFill
c. Fluid-applied, elastomeric impermeable membrane vapor and air barriers (Alt. vapor permeable sheet waterproofing vps)
d. U.L. Rating: U905

WALL "TYPE 339"

C

OMITTED

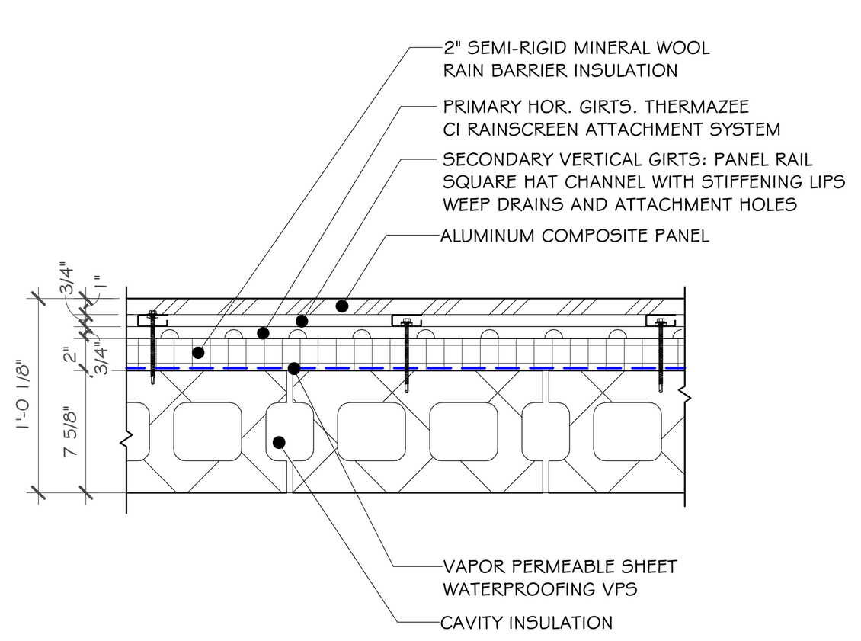


SPECIFICATION:

3.02 INTEGRATED MASONRY WALL SYSTEMS

J. Wall Type 392
1. Wall type 392, 8" CMU, GacoProFill 2 hour rated; 2-1/2" LGM stud, 5/8" regular GWB; one layer, one side, insulated
a. 5/8" regular GWB
1. Note: 5/8" MR GWB in all wet areas
b. 'U' shaped track / runner
c. 2-1/2" LG metal stud
d. 'U' shaped top track / runner
e. Lateral bracing, pre-notched spacer bar
f. Mineral wool insulation
g. 8" x 8" x 16" CMU common block
1. 2 Hour Rated Units: ASTM C90, normal weight.
A. Hollow block, as indicated.
h. Cavity insulation; GacoProFill
i. 2 Hour Rated Units: ASTM C90, normal weight.
j. Mortar for fire rated wall assemblies: Type M or S
k. Portland cement stucco or gyspum plaster; 3/4" thick, add 1/2 hr. to classification if used
l. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a maximum classification of 1-1/2hr. attached to concrete blocks.
m. Loose masonry fill -- if all core spaces are filled with loose dry expanded slag, expanded clay or shale (rotary kiln process), water repellant vermiculite masonry fill insulation, or silicone treated classification.
n. U.L. Rating: U905

WALL "TYPE 392"

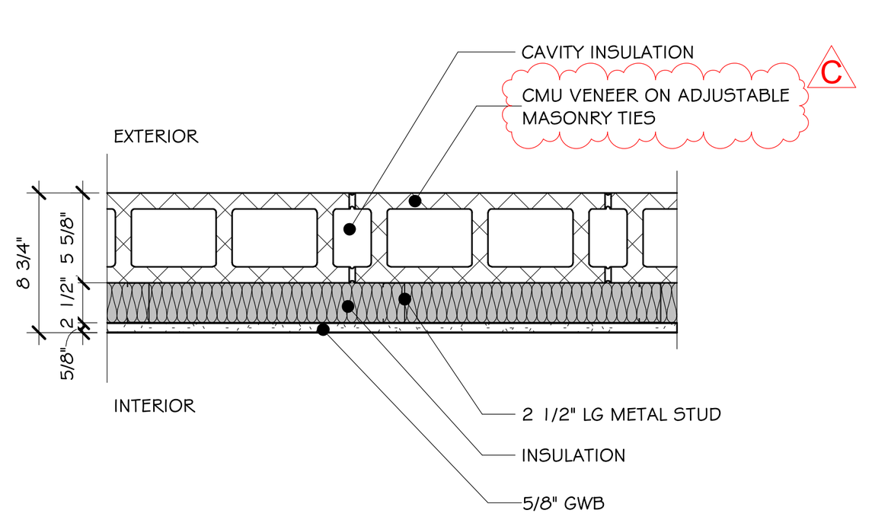


SPECIFICATION:

3.03 COLD FORMED METAL FRAMED WALL SYSTEMS

K. WALL TYPE 393
1. Wall type 393; 8" CMU, GacoProFill 2 hour rated; Liquid membrane waterproofing, 2" mineral wool insulation,rainscreen,ACM Cladding
a. 8"X8"X16" CMU common block1) Hollow block, as indicated.
b. Cavity insulation; GacoProFill
c. Fluid-applied, elastomeric impermeable membrane vapor and air barriers (Alt. vapor permeable sheet waterproofing vps)
d. 2" rigid mineral wool rain barrier insulation.
e. Primary horizontal girts: ThermaZee CI rainscreen attachment system
f. Secondary vertical rails: PanelRail square hat channel with stiffening lips,weep drains and attachment holes.
g. Aluminum composite metal panel (ACM)
h. U.L. Rating: U905

WALL "TYPE 393"



SPECIFICATION:

3.02 INTEGRATED MASONRY WALL SYSTEMS

J. Wall Type 394
1. Wall type 394, 6" CMU, GacoProFill insulation; 2 hour rated; 2-1/2" LGM stud, 5/8" regular GWB; one layer, one side, insulated
a. 5/8" regular GWB
1. Note: 5/8" MR GWB in all wet areas
b. 'U' shaped track / runner
c. 2 1/2" LG metal stud
d. 'U' shaped top track / runner
e. Lateral bracing, pre-notched spacer bar
f. Mineral Wool insulation
g. 6" x 8" x 16" CMU common block
1. 2 Hour Rated Units: ASTM C90, normal weight.
A. Hollow block, as indicated.
h. Cavity insulation; GacoProFill
i. 2 Hour Rated Units: ASTM C90, normal weight.
j. Mortar for fire rated wall assemblies: Type M or S
k. Portland cement stucco or gyspum plaster; 3/4" thick, add 1/2 hr. to classification if used
l. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a maximum classification of 1-1/2hr. attached to concrete blocks.
m. Loose masonry fill -- if all core spaces are filled with loose dry expanded slag, expanded clay or shale (rotary kiln process), water repellant vermiculite masonry fill insulation, or silicone treated classification.
n. U.L. Rating: U905

WALL "TYPE 394"

CONSTRUCTION NOTES

A. NOTE: ALL WALLS IDENTIFIED ON THE FLOOR PLAN THAT ARE TO BE ACOUSTICAL WALLS, ARE TO INCLUDE THE FOLLOWING:
1. METAL STUDS CONTINUOUS TO STRUCTURE ABOVE, WITH DEFLECTION TRACK.
2. ACOUSTICAL GYPSUM WALLBOARD EACH SIDE OF WALL, WITH ADHESIVE, CONTINUOUS TO STRUCTURE ABOVE. 1/2" GAP TO BE MAINTAINED AT TOP OF WALL/ STRUCTURE AND FILLED WITH ACOUSTIC SEALANT.
3. SEALANT AT BOTTOM AND TOP TRACK.
4. MINERAL WOOL INSULATION TO FILL ENTIRE CAVITY.
5. MINIMUM STC RATING: 52.
6. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. MECHANICAL, ELECTRICAL, PLUMBING
1. METAL VENTILATING AND CONDITIONING AIR DUCTS LOCATED IN DEMISING ASSEMBLIES ARE TO BE LINED.
2. CAULK HOLES (MADE BY WIRING) THAT PENETRATE DEMISING ASSEMBLIES; USE ELASTIC, NON-HARDENING CAULK OR DRY PACKING.
3. CONNECT VIBRATING EQUIPMENT WITH FLEXIBLE WIRING THAT SITS ON OR IS CONNECTED TO DEMISING ASSEMBLIES.
4. CUT HOLES IN DEMISING ASSEMBLIES NEATLY TO REDUCE LEAKS.
5. ELECTRICAL OUTLETS SHOULD BE AIRTIGHT BY USING ELASTIC NON-HARDENING SEALANT IN DEMISING ASSEMBLIES.
6. ELECTRICAL OUTLET BOXES IN OPPOSITE FACES OF DEMISING WALLS SHALL BE SEPARATED HORIZONTALLY BY 24" MINIMUM. BACK AND SIDES OF BOXES SHALL BE SEALED WITH 1/8" RESILIENT SEALANT. IF IT IS IMPOSSIBLE TO OFFSET ELECTRICAL OUTLETS, THEN INCREASE THE MASS OF THE BOX BY USING A PUTTY PACK. TV, TELEPHONE, AND INTERCOM OUTLETS MUST BE INSTALLED ACCORDINGLY. INSTALL PHONES, DOORBELLS, INTERCOMS, AND OTHER NOISE MAKING EQUIPMENT ON INSULATED INTERIOR WALLS ONLY - NEVER ON DEMISING WALLS.
7. FIT INSULATION BEHIND THE ELECTRICAL BOXES LOCATED IN DEMISING ASSEMBLIES.
8. ENSURE THAT OPENINGS AROUND BOXES LOCATED IN DEMISING ASSEMBLIES ARE SEALED AIRTIGHT.
9. INSTALL RECESSED LIGHT FIXTURES IN FURR DOWN LOCATIONS ONLY.
10. ISOLATE PIPING FROM STRUCTURES WITH RESILIENT PADS AND SLEEVES, THEN SEAL FOR AIR TIGHTNESS.
11. IF WATER HAMMER IS EVIDENT AT OR BEFORE THE TIME OF SUBSTANTIAL COMPLETION, PROVIDE AIR CHAMBERS TO ELIMINATE WATER HAMMER DUE TO ABRUPT STOPPING OF FLOWING WATER.CAULK ALL OPENINGS MADE IN DEMISING WALLS, FLOORS AND FRAMING FOR SUPPLY AND DRAIN LINES.
12. WATER CLOSETS TO BE RESILIENTLY MOUNTED WHEN SERVED BY DRAINS OR VENTS WHICH ARE INSTALLED WITHIN DEMISING ASSEMBLIES.
13. ALL RIGID CONDUIT, DUCTS, PLUMBING PIPES AND APPLIANCE VENTS LOCATED IN DEMISING ASSEMBLIES SHALL BE ISOLATED FROM THE BUILDING CONSTRUCTION AT POINTS OF CONTACT BY MEANS OF RESILIENT SLEEVES, MOUNTS OR MINIMUM 1/4" THICK APPROVED RESILIENT MATERIAL.

C. PERIMETER SEALING
1. ON CONCRETE SLABS, INSTALL PLATES OF DEMISING ASSEMBLIES ON SILL SEALERS; RUN WALL FINISH TO FLOOR WHERE POSSIBLE AND CAULK AIRTIGHT ON BOTH SIDES.
2. USE A NON-HARDENING, PERMANENTLY RESILIENT ACOUSTIC SEALANT SUCH AS A BUTYL RUBBER-BASED COMPOUND ON BOTH SIDES OF THE DEMISING ASSEMBLY.
3. USE JOINT TAPE AT JOINT LOCATIONS.
4. THE FOLLOWING LOCATIONS REQUIRE ACOUSTIC SEALING ALSO:
A. TOP AND BOTTOM PLATE PENETRATIONS BY PLUMBING AND ELECTRICAL
B. WINDOW AND DOOR ROUGH OPENINGS.
C. GAPS BETWEEN EXTERIOR WALL FRAMING MEMBERS GREATER THAN 1/4".
D. BAND AREA EXPOSED TO UNCONDITIONED SPACE - EXTERIOR SHEATHING WITH WRB MEETS THIS REQUIRMENT, PROVIDED ALL PENETRATIONS THROUGH THE AIR BARRIER ARE SEALED PROPERLY.
E. BAND AREA BETWEEN FLOORS, CONDITIONED SPACE AND ATTIC - EXTERIOR SHEATHING WITH WRB MEETS THIS REQUIRMENT, PROVIDED ALL PENETRATIONS THROUGH THE AIR BARRIER ARE SEALED PROPERLY.
F. EXTERIOR WALL PENENTRATIONS FOR REFRIGERATION LINES, CONDENSATE LINES, ETC.
G. MECHANICAL EQUIPMENT AND DUCTWORK CHASES IN ATTICS, CRAWLSPACES, PLENUM SPACES.
H. CEILING MOUNTED RECESSSED LIGHTS, FANS, SPEAKERS, ETC.
I. CEILING/CRAWLSPACE HVAC BOOTS SEALED TO DRYWALL.

D. FURR DOWNS
1. INSTALL GYPSUM BOARD CONTINUOUSLY BEHIND FURR DOWNS.
2. ATTACH FURR DOWN FRAMING TO RESILIENT CHANNELS WITHOUT CONTACTING THE WOOD FRAMING BENEATH.
3. PROVIDE FIREBLOCKING IN 1" AIRSPACE EXTENDING FROM THE BOTTOM WALL PLATE OF THE HIGHER FLOOR ASSEMBLY TO THE TOP PLATE OF THE LOWER FLOOR ASSEMBLY.
4. GYPSUM BOARD MUST BE INSTALLED CONTINUOUSLY BEHIND THE FURR DOWN TO MAINTAIN THE FIRE SEPARATION AND TO PROVIDE REQUIRED FIREBLOCKING OF THE FURR DOWN.
5. SERVICES ARE TO BE HUNG FROM RESILIENT MOUNTS ATTACHED TO THE WALL FRAME. ALL ELECTRICAL PENETRATIONS ARE TO BE TIGHTLY FITTED OR SEALED.

E. INSTALLATION INFORMATION
1. BOTTOM PLATE: APPLY A CONTINUOUS 3/8" ROUND BEAD OF SEALANT AT EACH SIDE OF THE BOTTOM PLATE BEFORE SETTING GYPSUM BOARD UNLESS INSTALLED PER DETAIL 14. GYPSUM BOARD SHALL BE SET INTO SEALANT TO FORM COMPLETE CONTACT WTIH ADJACENT MATERIALS. DO NOT ALLOW THE GYPSUM BOARD TO SET DIRECTLY ON THE FLOOR.
2. TOP PLATE: APPLY SEALANT AT TOP OF GYPSUM BOARD INTO THE JOINT TO PROVIDE FULL CONTACT BETWEEN THE BOARD AND THE STRUCTURE ABOVE.
3. CUT-OUTS AND PERIMETER JOINTS: BACKS OF ELECTRICAL BOXES, PIPES, DUCT SYSTEMS, AND OTHER TYPES OF UTILITY EQUIPMENT PENETRATING WALL SURFACES OF DEMISING ASSEMBLIES ARE TO BE BUTTERED WITH SEALANT. ALL JOINTS AT PERIMETER EDGES INCLUDING ABUTTING SURFACES AND CORNER JOINTS FORMED BY COMPONENTS SHALL BE SEALED WITH SEALANT.
4. BATTS MAY BE FRICTION-FIT IN PLACE UNTIL THE INTERIOR FINISH IS APPLIED. INSTALL BATTS TO FILL ENTIRE STUD CAVITY. IF STUD CAVITY IS LESS THAN 96" IN HEIGHT, CUT LENGTHS TO FRICTION-FIT AGAINST FLOOR AND CEILING FRAMING/TRACKS. WALLS WITH PENETRATIONS REQUIRE THAT INSULATION BE CAREFULLY CUT TO FIT AROUND OUTLETS, JUNCTION BOXES, AND OTHER IRREGULARITIES. WHERE INSULATION MUST EXTEND HIGHER THAN 8 FEET, SUPPLEMENTARY SUPPORT SHOULD BE INSTALLED TO HOLD INSULATION IN PLACE UNTIL THE INTERIOR FINISH IS APPLIED.

F. ACOUSTICAL SEALANT
1. SEAL ALL PENETRATIONS, THROUGH ACOUSTICAL ASSEMBLIES, EXCEPT FOR PENETRATIONS IN FIRE RATED CONSTRUCTION TO RECEIVE FIRESTOPPING. THIS INCLUDES PENETRATIONS INCLUDING BUT NOT LIMITED TO ELECTRICAL RECEPTACLE BOXES, LIGHT FIXTURES, SPRINKLER HEADS, DUCTWORK, PIPE, ETC.
2. REFER TO ASTM C 919, STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS FOR THE PROPER USE OF ACOUSTICAL CAULK. THIS STANDARD DETAILS A WALL SYSTEM, EXAMPLE-RATED AT STC 53, THAT ACHIEVES AN STC OF 29 WHEN IMPROPERLY CAULKED. FAILING TO CAULK THE SYSTEM CLEARLY EQUATES TO A FAILURE TO BUILD AN ACOUSTICAL WALL.
3. WHEN THERE ARE TWO LAYERS OF WALLBOARD, IT NEED ONLY BE APPLIED TO ONE OF THE LAYERS.
4. WHEN SELECTING AN ACOUSTICAL SEALANT, IT SHOULD REMAIN RESILIENT (I.E. A NON-DRYING, NON-HARDENING, OR NON-SKINNING SEALANT). TAPING IS NOT AN ACCEPTABLE SOLUTION.

G. RESILIENT CHANNELS
ANY CONTACT OF GYPSUM BOARD SCREWS TO THE STUDS OR JOISTS AS THE GYPSUM BOARD IS ATTACHED TO THE RESILIENT CHANNELS CAN SIGNIFICANTLY INCREASE SOUND TRANSMISSION THROUGH THE ASSEMBLY AND REDUCE THE EFFECTIVENESS OF THE RESILIENT CHANNELS.

H. OTHER REFERENCES
1. ASTM C919, STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS FOR THE PROPER USE OF ACOUSTICAL CAULK.
2. FIRE RESISTENCE DESIGN MANUAL, 17TH EDITION, GYPSUM ASSOCIATION.
3. ACOUSTICAL WALL INSULATION DESIGN GUIDE, OWENS CORNING.
4. SOUND CONTROL FOR COMMERCIAL AND RESIDENTIAL BUILDINGS, NORTH AMERICA INSULATION MANUFACTURERS ASSOCIATION.
5. LEVELROCK FLOOR UNDERLAYMENT SOUND SOLUTIONS, USG.
6. NOISE-RATED SYSTEMS, APA: THE ENGINEERED WOOD ASSOCIATION.
7. BUILDING A BETTER WALL: THE ELEMENTS OF GOOD ACOUSTICS, ARTICLE BY WILLIAM STEWART PUBLISHED IN "THE CONSTRUCTION SPECIFIER" IN JULY 2005.

I. NOTICE: ASTM E497, STANDARD PRACTICE FOR INSTALLING SOUND-ISOLATING LIGHTWEIGHT PARTITIONS, WAS WITHDRAWN WITHOUT REPLACEMENT EFFECTIVE 2008. PLEASE DISREGARD ANY MENTION OF THIS STANDARD IF FOUND IN REFERENCED MATERIALS LISTED IN SECTION I.

J. FIRE RATING OF WALLS ARE TO BE CONTINUOUS BEHIND ANY ELEMENTS THAT PENETRATE THEM, I.E. FIRE EXTINGUISHER CABINETS, ELECTRICAL OUTLETS, RECESSED LIGHTING, ETC. SEE TYPICAL DETAILS ON A600 DRAWINGS

SOUND CONTROL NOTES

THESE NOTES AND DETAILS DESCRIBE THE ACOUSTICAL ELEMENTS OF ASSEMBLIES THAT MUST COMPLY WITH THE STC/ICC REQUIREMENTS OF THE BUILDING CODE. THEY MAY NOT BE REQUIRED AT EVERY ASSEMBLY IN THE PROJECT. NON-RATED ASSEMBLIES AND ASSEMBLIES THAT DO NOT SEPARATE OCCUPANCIES, DWELLING UNITS, AND/OR COMMON AREAS FROM EACH OTHER WOULD BE EXEMPT, UNLESS OTHERWISE NOTED. THESE REQUIREMENTS SHALL BE FOLLOWED IN CONJUNCTION WITH THE RATED ASSEMBLY SHEETS, ALL DETAILS, AND SPECIFICATIONS TO MAINTAIN BOTH SOUND CONTROL AND REQUIRED FIRE RATINGS. ADVISE THE ARCHITECT IMMEDIATELY, IN WRITING, IF ANY INCONSISTENCIES OR DISCREPANCIES EXIST PRIOR TO THE START OF CONSTRUCTION.

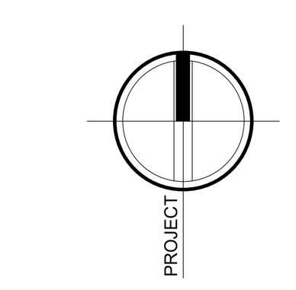
DEFINITIONS:
SOUND TRANSMISSION CLASS (STC): A SINGLE NUMBER RATING FOR EVALUATING EFFICIENCY OF CONSTRUCTIONS IN ISOLATING AIRBORNE SOUND TRANSMISSION. THE HIGHER THE STC RATING THE MORE EFFICIENT THE CONSTRUCTION. STC MEASURES THE ABILITY OF A WALL OR FLOOR ASSEMBLY TO ISOLATE AIRBORNE SOUND AND PREVENT IT FROM PASSING FROM ONE SIDE TO THE OTHER. THE MINIMUM INTERNATIONAL BUILDING CODE REQUIREMENT IS 50 STC, PER ASTM E90.
IMPACT INSULATION CLASS (IIC): A SINGLE NUMBER RATING DEVELOPED BY THE FEDERAL HOUSING ADMINISTRATION TO ESTIMATE THE IMPACT SOUND ISOLATION PERFORMANCE OF FLOOR/CEILING SYSTEMS. IIC MEASURES THE ABILITY OF A FLOOR/CEILING ASSEMBLY TO ISOLATE SOUND TRANSMITTED FROM FOOTFALL AND OTHER IMPACT SOURCES THROUGH THE BUILDING STRUCTURE. THE MINIMUM INTERNATIONAL BUILDING CODE REQUIREMENT IS 50 IIC, PER ASTM E492.
AIRBORNE SOUND: SOUND, PRODUCED BY VIBRATING SOURCES THAT RADIATE SOUND DIRECTLY INTO THE AIR, WHICH IS TRANSMITTED THROUGH AIR AS A MEDIUM RATHER THAN THROUGH SOLIDS OR THE STRUCTURE OF THE BUILDING.

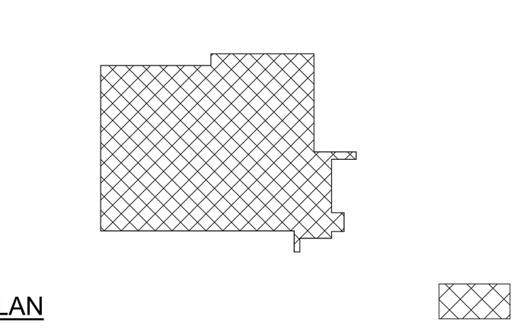
FLANKING PATHS: A WALL OR FLOOR/CEILING CONSTRUCTION THAT PERMITS SOUND TO BE TRANSMITTED ALONG ITS SURFACE; OR ANY OPENING WHICH PERMITS DIRECT TRANSMISSION OF SOUND THROUGH THE AIR. THIS TYPICALLY OCCURS AT SMALL GAPS AND OPENINGS AROUND DOORS, TOP AND BOTTOM PLATES, ELECTRICAL BOXES, AND CONDUIT AND HVAC DUCTING WHICH ALLOW SOUND TO PASS THROUGH IF ACOUSTICAL SEALANT IS NOT USED. ALSO REFERRED TO AS "LEAKING PATHS".

REVISIONS:

NUM.	DATE	DESCRIPTION
C	05/02/25	ADDENDUM 4

100% **BID DOCUMENTS**





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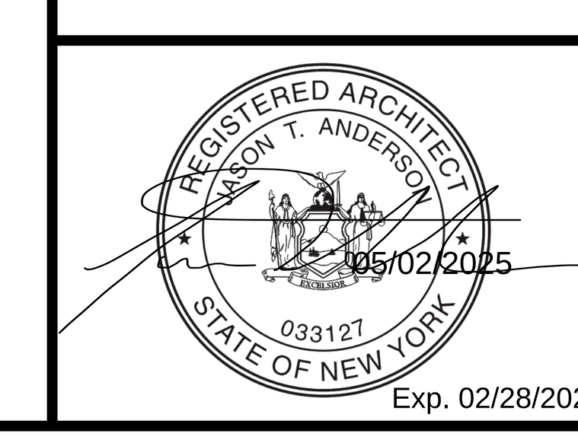
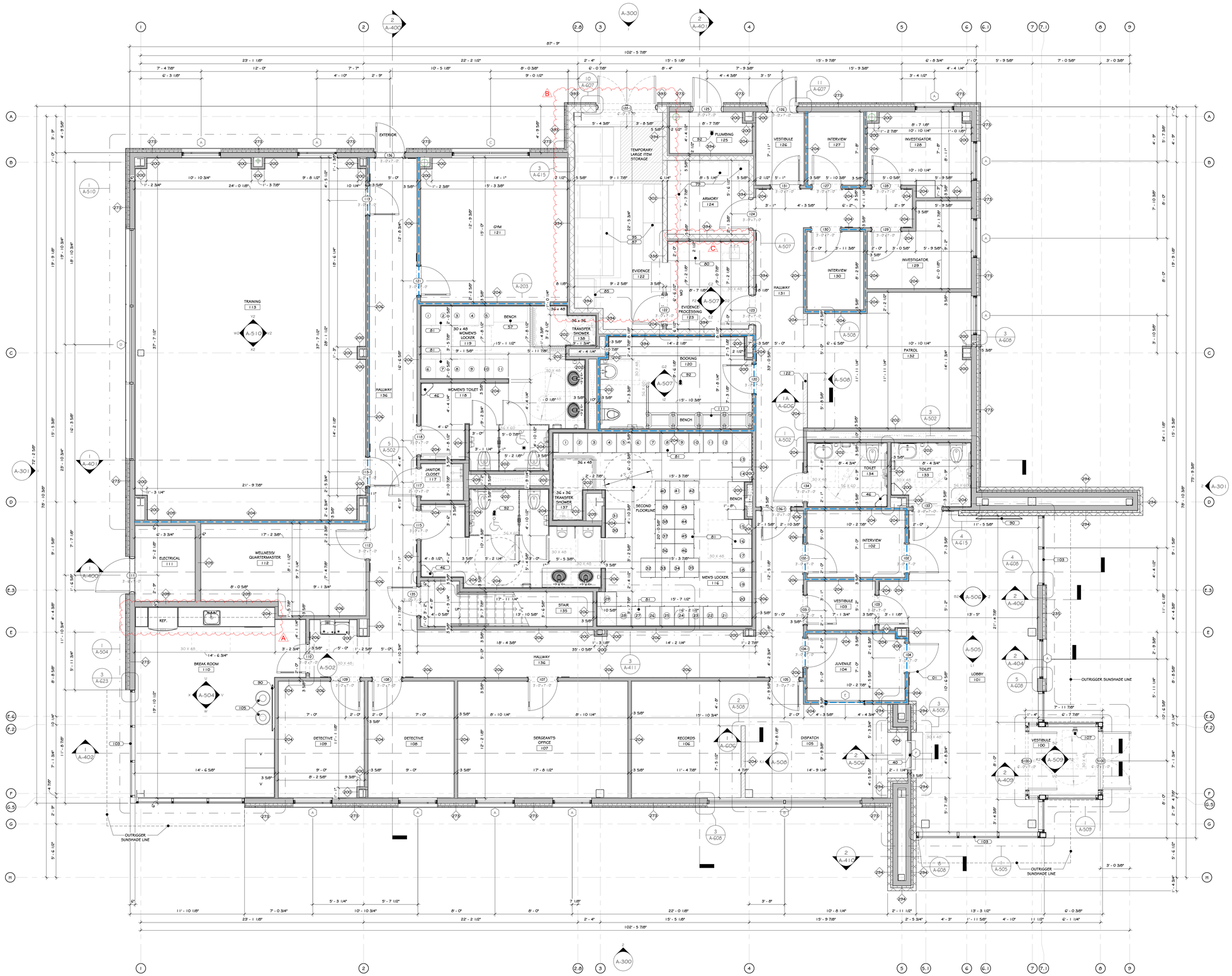
Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

Drawing: TYPICAL WALL TYPES



Project: 23138	Date: 02/24/25
Drawn: IDEA	Scale: AS NOTED

Drawing Number: A-200



I FIRST FLOOR PLAN
1/4" = 1'-0"

CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE TO ROUGH FRAMING.
2. NOTE: NOT ALL CONSTRUCTION NOTES MAY BE SPECIFIC TO THIS DRAWING.
3. NOTE: F.F. ELEVATION 422.00 ON CIVIL DWGS. = F.F. ELEV. 100'-0" ON ARCH., STRUC., & MEP DWGS.
4. NOTE: F.F. ELEVATION ELEV. 100'-0" ON ARCH., STRUC., & MEP DWGS REFERS TO EXISTING FIRST FLOOR SLAB.
5. F.F. ELEVATIONS:
   a. MAIN FLOOR: 100'-0"
   b. SECOND FLOOR: 114'-00"
6. GENERAL CONTRACTOR TO VERIFY ALL ROUGH OPENING SIZES WITH RESPECTIVE MANUFACTURERS (DOOR/WINDOW/LOUVERS/ETC.) PRIOR TO ORDERING AND LAYING OUT MASONRY OPENINGS AND/OR LAYING OUT STUD FRAMING.
7. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE EXTINGUISHERS. GC TO CONSULT WITH LOCAL AHJ, PRIOR TO CO INSPECTION, TO CONFIRM ACCEPTANCE OF LOCATIONS BY FIRE MARSHAL. FIRE EXTINGUISHER CABINETS TO BE PROVIDED AT ALL FINISHED OFFICE SPACES AND/OR PUBLIC AREAS AND WALL HUNG EXPOSED FIRE EXTINGUISHERS AT ALL OTHER LOCATIONS. PROVIDE CUTTING AND BLOCKING WITHIN FRAMING FOR WALL CABINETS AND MOUNTING HARDWARE.
8. U.O.N. WALLS SHALL EXTEND 12" ABOVE THE FINISH CEILING HEIGHT DIMENSION. ALL WALLS AROUND CONFERENCE ROOMS, PRIVATE OFFICES, SEPARATING PUBLIC SPACES FROM OFFICE SPACES, AND WALLS INDICATED TO BE ACOUSTICAL WALLS (WALLS WITH ACOUSTICAL GYPSUM BOARD), ARE TO EXTEND TO THE FLOOR ABOVE AND BE SEALED WITH ACOUSTICAL CAULK. INSULATION AND GYPSUM BOARD IS TO CONTINUE TO THE TOP OF THE WALL, BOTH SIDES. IF AREA ABOVE CEILING SYSTEM IS OCCUPIED BY HVAC EQUIPMENT, PROVIDE ADEQUATE ACCESS FOR SERVICE TO SAID UNITS.
9. FIRE ALARM TO BE COORDINATED WITH OWNER AND THEIR EXISTING ADJACENT OFFICE BUILDING. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.
10. CONSTRUCTION TO BEGIN ONLY AFTER ALL BUILDING COMPONENTS HAVE BEEN DESIGNED AND CONFIRMED.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERSONALLY INSPECT THE WORK IN PROGRESS, AND AS A WHOLE, ASSURING HIMSELF THAT THE WORK ON ANY OR ALL OR PART OF THE PROJECT IS READY FOR PERIODIC AND/OR FINAL REVIEW, BEFORE CALLING UPON THE ARCHITECT AND OWNER TO MAKE THEIR SITE/PROJECT OBSERVATION VISIT OF THE WORK.
12. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES REQUIRED FOR SAFE EXECUTION AND COMPLETION OF WORK, AND FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
13. THE CONTRACTOR MUST PROVIDE ALL REQUIRED RATINGS FOR FIRE-RESISTIVE SEPARATION WALLS, FLOOR/CEILING ASSEMBLIES, IN ACCORDANCE WITH THE LATEST EDITION OF THE GOVERNING CODE AND LOCAL CODES.
14. ALL WALL PENETRATIONS SHALL BE HORIZONTALLY ALIGNED AT EACH FLOOR LEVEL. STRUCTURAL DETAILS AND SPECIFICATIONS OF ANY FRAMING MEMBERS, BRACING, ETC. SUPERSEDE THE ARCHITECTURAL DRAWINGS.
15. FIRST FLOOR TO BE SLAB ON GRADE. PROVIDE CONTROL JOINTS IN THE SLAB AS PER THE SPECIFICATIONS AND STRUCTURAL DRAWINGS.
16. FIRE SEPARATION WALLS ARE REQUIRED AS INDICATED ON THE LIFE SAFETY PLAN AND/OR/ WALL TYPES. SEE LIFE SAFETY PLAN, RESPECTIVE WALL TYPES AND FIRE RATED DETAILS, AND STRUCTURAL DRAWINGS. ALL RATED WALLS, FLOORS AND CEILINGS ARE TO BE A PART OF AN APPROVED UL FIRE RATED ASSEMBLY.
17. HOLLOW METAL DOORS WITH HOLLOW METAL FRAMES ARE INCLUDED WITH THIS PROJECT. SEE DOOR SCHEDULE. THE GC IS REQUIRED TO COORDINATE AND INSTALL ALL ACCESS CONTROL DOOR HARDWARE.
18. MODULAR FURNITURE, CONFERENCE TABLES, AND WORKSTATIONS- GC: UNDERSLAB DATA AND POWER TO BE PROVIDED TO EACH - SEE ELECTRICAL DRAWINGS.
19. UNCOUPLING MEMBRANE TO BE INSTALLED UNDER ALL TILE FLOORS. NO EXCEPTIONS.
20. SEE ASOD DRAWINGS FOR INTERIOR ELEVATIONS, DETAILS, DIMENSIONS, AND MOUNTING HEIGHTS OF MILLWORK AND COUNTERS.
21. GC TO PROVIDE ALL NECESSARY BLOCKING FOR MILLWORK, SHELVING, ETC.
22. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND IT/AV DRAWINGS AND SPECIFICATIONS FOR COORDINATION OF ALL RELATED ITEMS, INCLUDING UNDERGROUND WORK.
23. THREE EMPTY 3" CONDUIT WITH PULL TAPE TO BE PROVIDED FROM THE IT/TELECOM ROOM TO THE PLENUM SPACE
24. FLOOR OUTLETS (DATA AND POWER) TO BE PROVIDED UNDER ALL FREESTANDING MILLWORK AT ALL DISPATCH AND PATROL DESKS, AT MULTIPLE LOCATIONS UNDER EACH CONFERENCE TABLE (MAX 6'-0" O.C.), ONE CENTERED FLOOR BOX AT A SIX PERSON TABLE, TWO FLOOR BOXES, 6'-0" O.C., AT AN 8-12 PERSON TABLE, ETC). SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS
25. WATER LINE TO BE PROVIDED TO BREAKROOM MILLWORK FOR COFFEE MAKER. CIVIL DRAWINGS AND SPECIFICATIONS FOR ALL SITE IMPROVEMENTS AND INCOMING UTILITIES BEYOND 5'-0" OUTSIDE OF THE BUILDING FOOTPRINT
26. MIN. 5'x 5' NEVIOUS AREA REQUIRED AT EACH EXIT DOOR. G.C. TO PROVIDE EXTERIOR CONCRETE PADS IF ASPHALT IS NOT PROVIDED FOR ON CIVIL DRAWINGS. SEE STRUCTURAL AND CIVIL DRAWINGS AND SPECIFICATIONS.
27. GC TO INCLUDE LINE ITEM ALTERNATE FOR EVIDENCE STORAGE EQUIPMENT, EVIDENCE LOCKERS, AND SHELVING
28. OMITTED - N/A
29. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ALL SITE IMPROVEMENTS AND INCOMING UTILITIES BEYOND 5'-0" OUTSIDE OF THE BUILDING FOOKPRINT.
30. ALL WINDOWS WITH SILLS LESS THAN 36" AFF AND MORE THAN 72" ABOVE FINISH GRADE OF OTHER SURFACE SHALL HAVE LATCH HARDWARE COMPLIANT WITH ASTM F 2090 LIMITING OPENING TO 4".
31. SPACING/CONFIGURATION OF TRUSSES TO BE ADJUSTED AS REQUIRED TO ACCOMODATE THE OPENINGS FOR ANY SHAFTS AND LADDER ACCESS TO ROOF, TRUSS DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
32. GC TO COORDINATE FRAMING DEPTH LAYOUT WITH HVAC LOCATIONS AND MANUFACTURER INSTALLATION INSTRUCTIONS/RECOMMENDED CLEARANCES (COORDINATE HVAC UNIT PLACEMENT WITH INTAKE/ EXHAUST LOUVER LOCATIONS INDICATED ON EXTERIOR ELEVATIONS).
33. STRUCTURAL DETAILS AND SPECIFICATIONS OF ANY FRAMING MEMBERS, BRACING, ETC. SUPERSEDE THE ARCHITECTURAL DRAWINGS.
34. FIRE RATING OF WALLS ARE TO BE CONTINUOUS BEHIND ANY ELEMENTS THAT PENETRATE THEM, I.E. FIRE EXTINGUISHER CABINETS, ELECTRICAL OUTLETS, RECESSED LIGHTING, ETC. SEE TYPICAL DETAILS ON A-600 DRAWINGS.

KEY NOTES

01	HOLLOW METAL DOOR - SEE SPECS.
40	BULLET RESISTANT TRANSACTION WINDOW. - SEE SPECS.
46	GARBAGE CAN - SEE SPECS.
57	HARDWOOD LOCKER BENCH - SEE SPECS.
79	FIREARM LOCKER - SEE SPECS.
80	STAINLESS STEEL MILLWORK. - SEE SPECS.
81	HEAVY DUTY METAL LOCKERS; SINGLE TIER WITH DRAWER BELOW - SEE SPECS.
85	EVIDENCE LOCKER WITH REFRIGERATOR - SEE SPECS.
87	HIGH DENSITY MOBILE EVIDENCE LOCKER SYSTEM - SEE SPECS.
90	WALL MOUNTED TV, BY OWNER.
92	FLOOR DRAIN, SEE PLUMBING DRAWINGS.
95	EVIDENCE LOCKER - SEE SPECS.
103	CURTAIN WALL SYSTEM - SEE SPECS.
105	GARBAGE RECEPTACLE SEE SPECS.
107	911 AUTO-DIAL PHONE WITH PEDESTAL - SEE SPECS.
111	BOOKING BENCH - BY OWNER
122	HALFWALL

WALL LEGEND:

- MTL STUD WALL
- CMU WALL
- PARTIAL HT. WALL
- ACOUSTIC MTL STUD WALL

DOOR LEGEND:

- 100S — PERSONNEL DOOR TAG @ FIRST FLR LEVEL
- S100S — STOREFRONT DOOR TAG @ FIRST & SECOND FLR LEVEL
- 200S — PERSONNEL DOOR TAG @ SECOND FLR LEVEL

REVISIONS:

NUM.	DATE	DESCRIPTION
A	04/17/25	ADDENDUM 2
B	04/25/25	ADDENDUM 3
C	05/02/25	ADDENDUM 4

100% **BID DOCUMENTS**

PROJECT

KEY PLAN — WORK AREA

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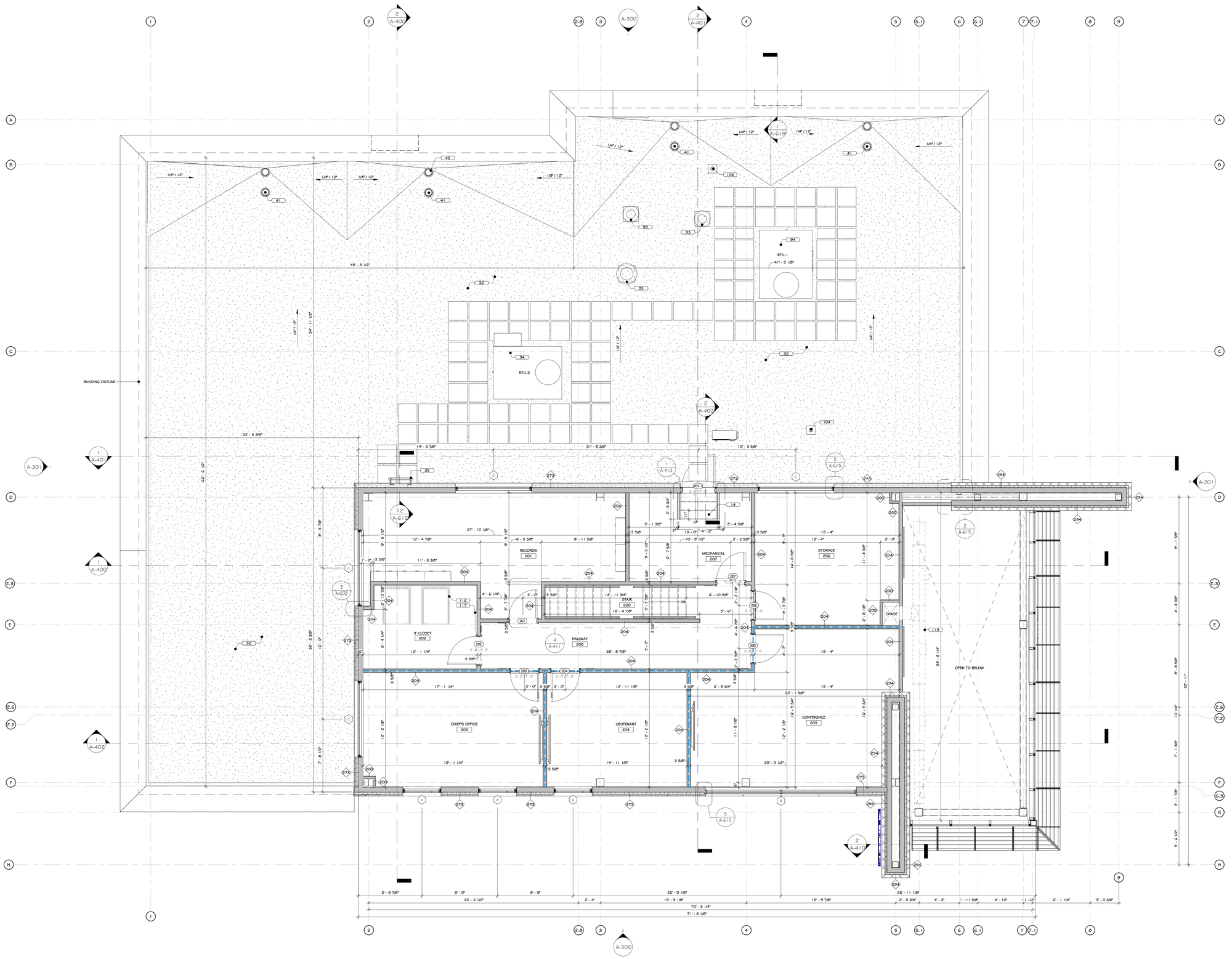
Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

Drawing: FIRST FLOOR PLAN

REGISTERED ARCHITECT — JASON T. ANDERSON — 033127 — STATE OF NEW YORK
05/02/2025
Exp. 02/28/2026

Project:	23138	Date:	02/24/25
Drawn:	IDEA	Scale:	AS NOTED

Drawing Number: A-201



1 SECOND FLOOR PLAN
1/4" = 1'-0"

CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE TO ROUGH FRAMING.
2. NOTE: NOT ALL CONSTRUCTION NOTES MAY BE SPECIFIC TO THIS DRAWING.
3. NOTE: F.F. ELEVATION 422.00 ON CIVIL DWGS. = F.F. ELEV. 100'-0" ON ARCH., STRUC., & MEP DWGS.
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7. SEE LIFE SAFETY PLANS FOR LOCATIONS OF FIRE EXTINGUISHERS. GC TO CONSULT WITH LOCAL AHJ, PRIOR TO CO INSPECTION, TO CONFIRM ACCEPTANCE OF LOCATIONS BY FIRE MARSHAL. FIRE EXTINGUISHER CABINETS TO BE PROVIDED AT ALL FINISHED OFFICE SPACES AND/OR PUBLIC AREAS AND WALL HUNG EXPOSED FIRE EXTINGUISHERS AT ALL OTHER LOCATIONS. PROVIDE OPENING AND BLOCKING WITHIN FRAMING FOR WALL CABINETS AND MOUNTING HARDWARE.
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9. FIRE ALARM TO BE COORDINATED WITH OWNER AND THEIR EXISTING ADJACENT OFFICE BUILDING. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.
10. CONSTRUCTION TO BEGIN ONLY AFTER ALL BUILDING COMPONENTS HAVE BEEN DESIGNED AND CONFIRMED.
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18. MODULAR FURNITURE, CONFERENCE TABLES, AND WORKSTATIONS- GC: UNDERSLAB DATA AND POWER TO BE PROVIDED TO EACH - SEE ELECTRICAL DRAWINGS.
19. UNCOUPLING MEMBRANE TO BE INSTALLED UNDER ALL TILE FLOORS. NO EXCEPTIONS.
20. SEE A500 DRAWINGS FOR INTERIOR ELEVATIONS, DETAILS, DIMENSIONS, AND MOUNTING HEIGHTS OF MILLWORK AND COUNTERS.
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22. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND IT/AV DRAWINGS AND SPECIFICATIONS FOR COORDINATION OF ALL RELATED ITEMS, INCLUDING UNDERGROUND WORK.
23. THREE EMPTY 3" CONDUIT WITH PULL TAPE TO BE PROVIDED FROM THE IT/TELECOM ROOM TO THE PLENUM SPACE
24. FLOOR OUTLETS (DATA AND POWER) TO BE PROVIDED UNDER ALL FREESTANDING MILLWORK AT ALL DISPATCH AND PATROL DESKS, AT MULTIPLE LOCATIONS UNDER EACH CONFERENCE ROOM TABLE (MAX 6'-0" O.C., ONE CENTERED FLOOR BOX AT A SIX PERSON TABLE, TWO FLOOR BOXES, 6'-0" O.C., AT AN 8-12 PERSON TABLE, ETC). SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS
25. WATER LINE TO BE PROVIDED TO BREAKROOM MILLWORK FOR COFFEE MAKER. CIVIL DRAWINGS AND SPECIFICATIONS FOR ALL SITE IMPROVEMENTS AND INCOMING UTILITIES BEYOND 5'-0" OUTSIDE OF THE BUILDING FOOTPRINT
26. MIN. 5'x 5' IMPERVIOUS AREA REQUIRED AT EACH EXIT DOOR. G.C. TO PROVIDE EXTERIOR CONCRETE PADS IF ASPHALT IS NOT PROVIDED FOR ON CIVIL DRAWINGS. SEE STRUCTURAL AND CIVIL DRAWINGS AND SPECIFICATIONS.
27. GC TO INCLUDE ONE ITEM ALTERNATE FOR EVIDENCE STORAGE EQUIPMENT, EVIDENCE LOCKERS, AND SHELVING
28. OMITTED - 2/24/25
29. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ALL SITE IMPROVEMENTS AND INCOMING UTILITIES BEYOND 5'-0" OUTSIDE OF THE BUILDING FOOTPRINT.
30. ALL WINDOWS WITH SILLS LESS THAN 36" AFF AND MORE THAN 72" ABOVE FINISH GRADE OF OTHER SURFACE SHALL HAVE LATCH HARDWARE COMPLIANT WITH ASTM F 2090 LIMITING OPENING TO 4".
31. SPACING/CONFIGURATION OF TRUSSES TO BE ADJUSTED AS REQUIRED TO ACCOMODATE THE OPENINGS FOR ANY SHAFTS AND LADDER ACCESS TO ROOF, TRUSS DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
32. GC TO COORDINATE FRAMING DEPTH LAYOUT WITH HVAC LOCATIONS AND MANUFACTURER INSTALLATION INSTRUCTIONS/RECOMMENDED CLEARANCES (COORDINATE HVAC UNIT PLACEMENT WITH INTAKE/EXHAUST LOUVER LOCATIONS INDICATED ON EXTERIOR ELEVATIONS).
33. STRUCTURAL DETAILS AND SPECIFICATIONS OF ANY FRAMING MEMBERS, BRACING, ETC. SUPERSEDE THE ARCHITECTURAL DRAWINGS.
34. FIRE RATING OF WALLS ARE TO BE CONTINUOUS BEHIND ANY ELEMENTS THAT PENETRATE THEM, I.E. FIRE EXTINGUISHER CABINETS, ELECTRICAL OUTLETS, RECESSED LIGHTING, ETC. SEE TYPICAL DETAILS ON A-600 DRAWINGS.

KEY NOTES

14	METAL PAN STAIR - SEE SPECS.
32	EPDM FULLY ADHERED - SEE SPECS.
35	FIXED ALUMINUM ACCESS LADDER, OSHA APPROVED - SEE SPECS.
41	ROOF DRAIN OVERFLOW - SEE PLUMBING DRAWINGS
42	ROOF DRAIN - SEE PLUMBING DRAWINGS
93	ELECTRIC FAN - SEE MECHANICAL PLANS
94	ROOFTOP UNIT - SEE MECHANICAL PLANS
104	ROOF VENT - SEE PLUMBING DRAWINGS
116	IT AND NETWORK RACK - BY IT COMPANY.
117	ACCESS CONTROL BOXES - BY IT COMPANY.
119	DUCTWORK - SEE SPECS.

WALL LEGEND:

- MTL STUD WALL
- CMU WALL
- PARTIAL HT. WALL
- ACOUSTIC MTL STUD WALL

DOOR LEGEND:

- 100S — PERSONNEL DOOR TAG @ FIRST FLR LEVEL
- S100S — STOREFRONT DOOR TAG @ FIRST & SECOND FLR LEVEL
- 200S — PERSONNEL DOOR TAG @ SECOND FLR LEVEL

REVISIONS:

NUM.	DATE	DESCRIPTION
2	05/02/25	ADDENDUM 4

100% **BID DOCUMENTS**

PROJECT

KEY PLAN — WORK AREA

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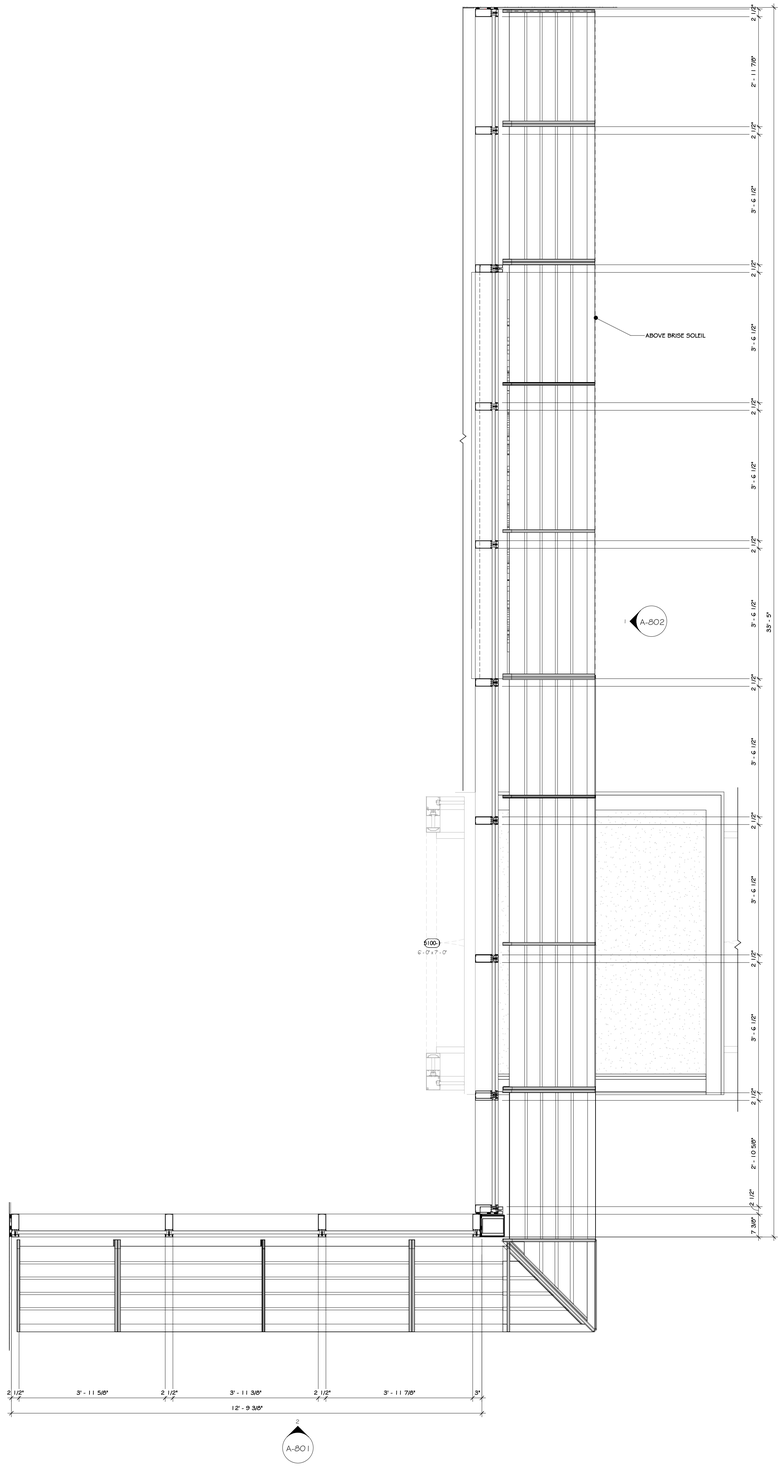
Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

Drawing: SECOND FLOOR PLAN

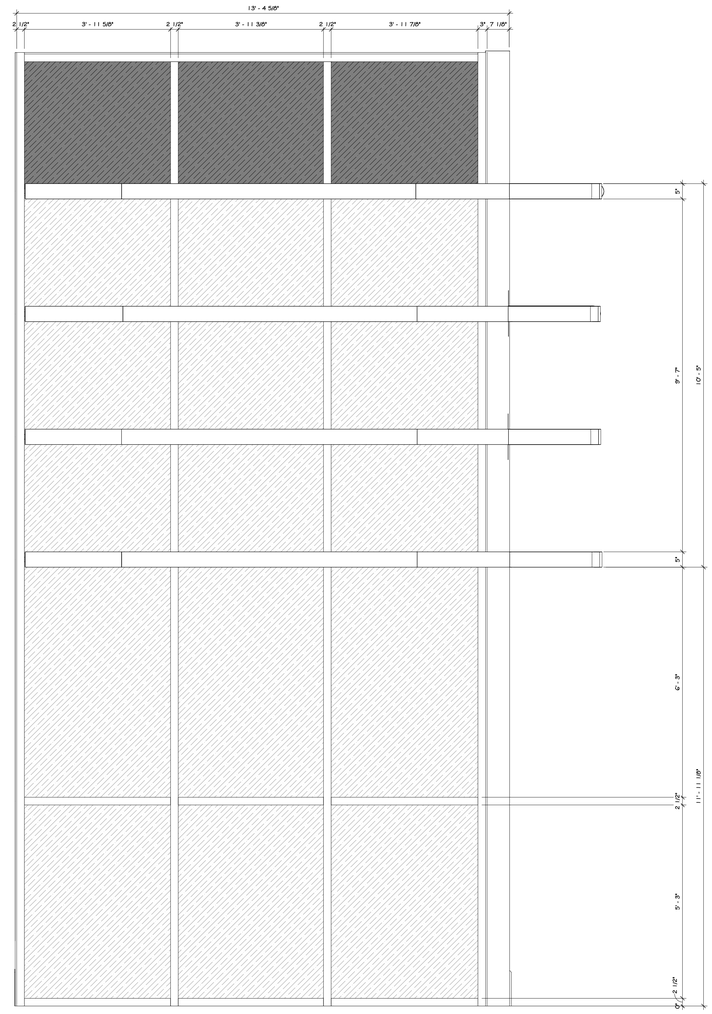
REGISTERED ARCHITECT — JASON T. ANDERSON — 033121 — STATE OF NEW YORK
05/02/2025
Exp. 02/28/2026

Project:	23138	Date:	02/24/25
Drawn:	IDEA	Scale:	AS NOTED

Drawing Number: A-202



1 CURTAIN WALL ENLARGED PLAN @ LOBBY
1 : 20



2 CURTAIN WALL ELEVATION-A @ LOBBY
1 : 20

CONSTRUCTION NOTES

1. ALL SIZES TO BE VERIFIED IN FIELD WITH FRAMING.
2. ALL THRESHOLDS SHALL BE ALUMINUM.
3. ALL WEATHER STRIPPING SHALL BE ALUMINUM.
4. ALL KICKPLATES SHALL BE STAINLESS STEEL.
5. ALL SETS MAY NOT BE USED IN THIS PROJECT.
6. ALL DOOR HARDWARE TO BE SAME STYLE - SUBMIT TO ARCHITECT FOR APPROVAL.
7. DOOR PROVIDER TO COORDINATE KEYING WITH OWNERTHROUGH ARCHITECT.
8. FURNISH KEYS FOR EACH LOCK.
9. FURNISH MASTER KEYS.
10. LABEL ALL KEYS WITH SELF-LOCKING CLIPS, BY ROOM NUMBER.
11. ALL CLOSERS TO HAVE 'HOLD-OPEN' FEATURE.
12. DOOR AND HARDWARE SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT ONLY AFTER GENERAL CONTRACTOR HAS RECEIVED THEM AND CONFIRMED THAT ALL SIZES WORK WITH ROUGH OPENINGS FRAMED IN THE FIELD. SUBMITTED SHOP DRAWINGS MUST CONTAIN APPROVAL SIGNATURE FROM GENERAL CONTRACTOR PRIOR TO SUBMISSION TO ARCHITECT.

REVISIONS:

NUM.	DATE	DESCRIPTION
C	05/02/25	ADDENDUM 4

100% **BID DOCUMENTS**

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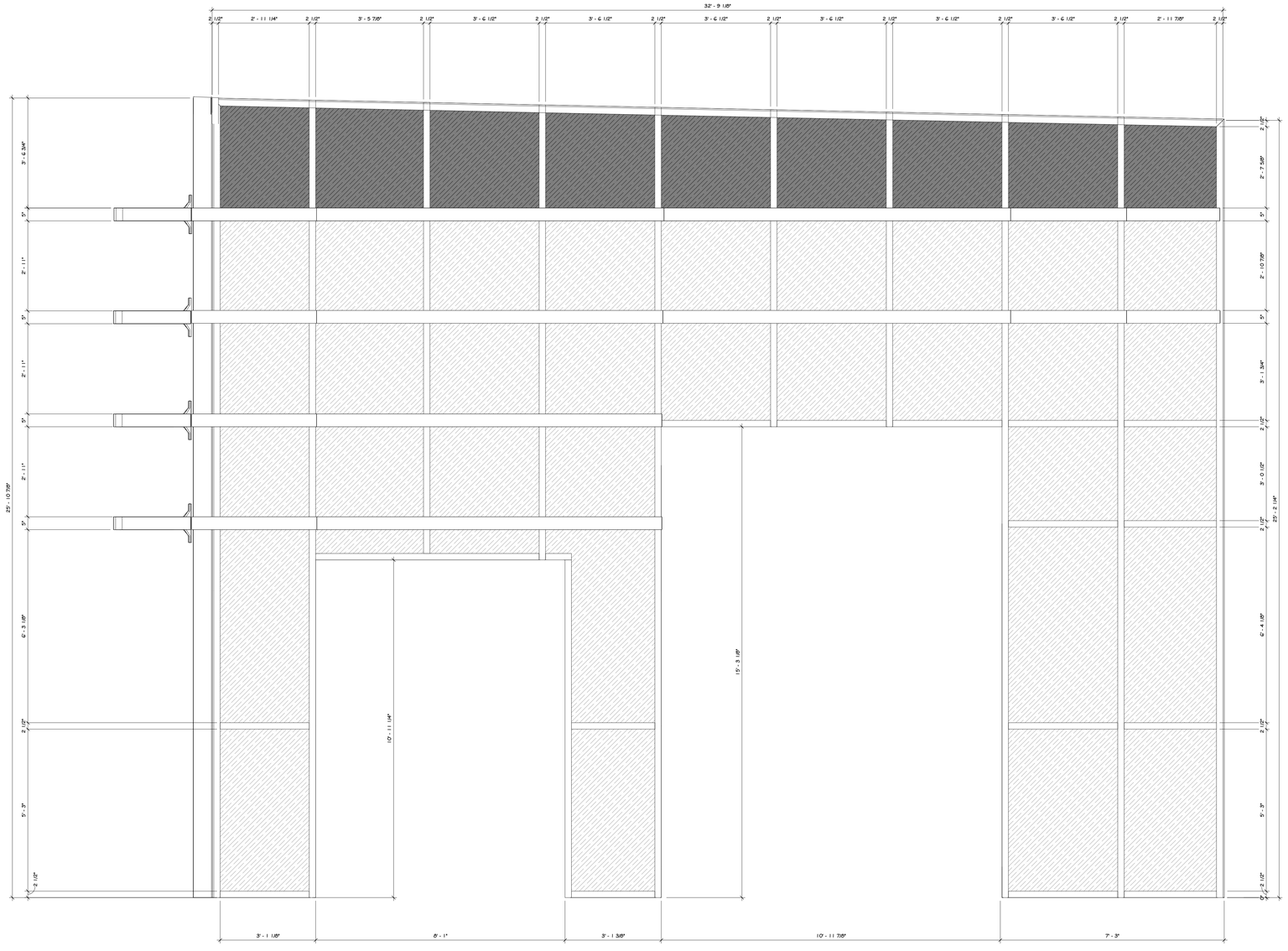
Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

Drawing: CURTAIN WALL SCHEDULE C

REGISTERED ARCHITECT JASON T. ANDERSON 033127 STATE OF NEW YORK
05/02/2025
Exp. 02/28/2026

Project:	23138	Date:	02/24/25
Drawn:	IDEA	Scale:	AS NOTED

Drawing Number: A-801



1 CURTAIN WALL ELEVATION-B @ LOBBY
1 : 20

CONSTRUCTION NOTES

1. ALL SIZES TO BE VERIFIED IN FIELD WITH FRAMING.
2. ALL THRESHOLDS SHALL BE ALUMINUM.
3. ALL WEATHER STRIPPING SHALL BE ALUMINUM.
4. ALL KICKPLATES SHALL BE STAINLESS STEEL.
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10. LABEL ALL KEYS WITH SELF-LOCKING CLIPS, BY ROOM NUMBER.
11. ALL CLOSERS TO HAVE 'HOLD-OPEN' FEATURE.
12. DOOR AND HARDWARE SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT ONLY AFTER GENERAL CONTRACTOR HAS RECEIVED THEM AND CONFIRMED THAT ALL SIZES WORK WITH ROUGH OPENINGS FRAMED IN THE FIELD. SUBMITTED SHOP DRAWINGS MUST CONTAIN APPROVAL SIGNATURE FROM GENERAL CONTRACTOR PRIOR TO SUBMISSION TO ARCHITECT.

REVISIONS:

NUM.	DATE	DESCRIPTION
C	05/02/25	ADDENDUM 4

100% **BID DOCUMENTS**

ADG ARCHITECTS

25 WALLKILL AVE • MONTGOMERY • NY 12549
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CONTACT@ADGARCHITECT.COM

ARCHITECTURE • PLANNING • INTERIORS

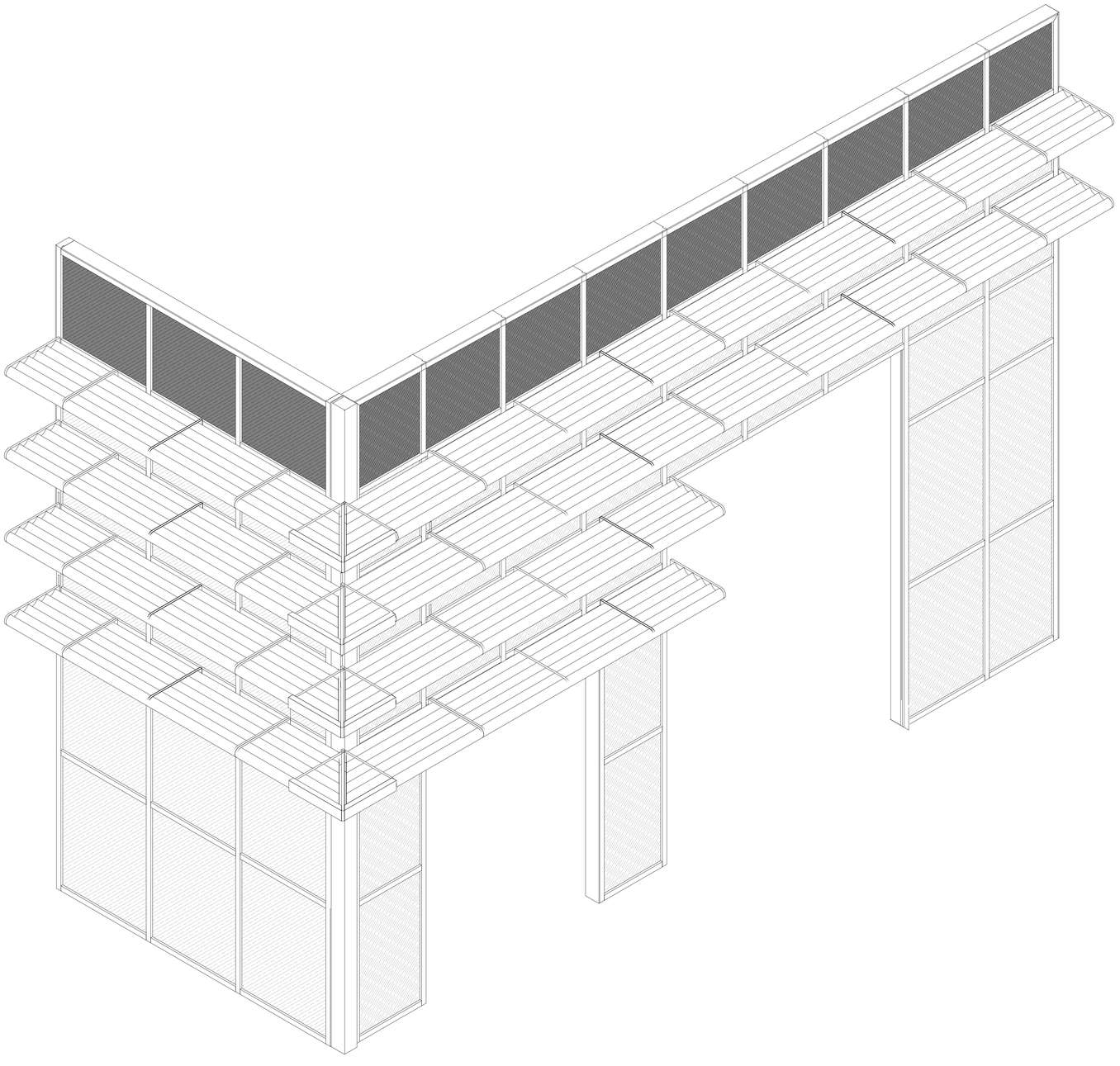
Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

Drawing: CURTAIN WALL SCHEDULE C

REGISTERED ARCHITECT JASON T. ANDERSON 033127 STATE OF NEW YORK
05/02/2025
Exp. 02/28/2026

Project:	23138	Date:	02/24/25
Drawn:	IDEA	Scale:	AS NOTED

Drawing Number: A-802



3D VIEW @ STOREFRONT LOBBY

CONSTRUCTION NOTES

1. ALL SIZES TO BE VERIFIED IN FIELD WITH FRAMING.
2. ALL THRESHOLDS SHALL BE ALUMINUM.
3. ALL WEATHER STRIPPING SHALL BE ALUMINUM.
4. ALL KICKPLATES SHALL BE STAINLESS STEEL.
5. ALL SETS MAY NOT BE USED IN THIS PROJECT.
6. ALL DOOR HARDWARE TO BE SAME STYLE - SUBMIT TO ARCHITECT FOR APPROVAL.
7. DOOR PROVIDER TO COORDINATE KEYING WITH OWNERTHROUGH ARCHITECT.
8. FURNISH KEYS FOR EACH LOCK.
9. FURNISH MASTER KEYS.
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REVISIONS:

NUM.	DATE	DESCRIPTION
C	05/02/25	ADDENDUM 4

100% **BID DOCUMENTS**

PROJECT

KEY PLAN

WORK AREA

ADG ARCHITECTS

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ARCHITECTURE • PLANNING • INTERIORS

Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

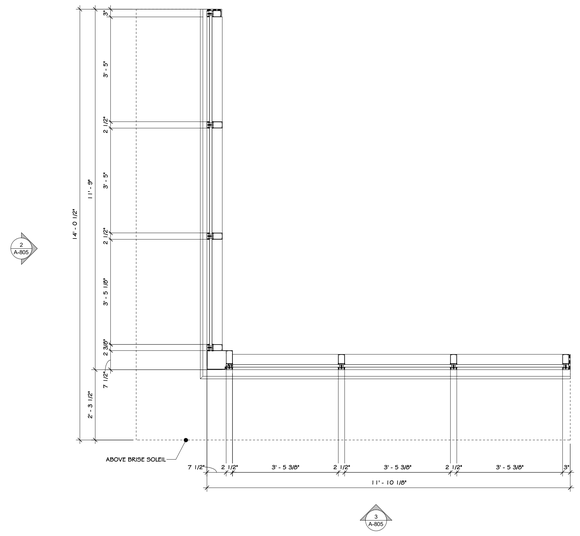
Drawing: CURTAIN WALL SCHEDULE C

REGISTERED ARCHITECT
JASON T. ANDERSON
033127
STATE OF NEW YORK
05/02/2025
Exp. 02/28/2026

Project:	23138	Date:	02/24/25
Drawn:	IDEA	Scale:	AS NOTED

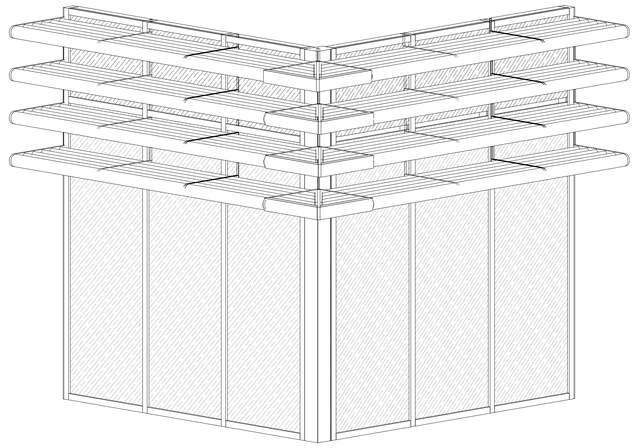
Drawing Number:

A-803



1 STOREFRONT PLAN @ BREAK ROOM

1/2" = 1'-0"



3D STOREFRONT @ BREAK ROOM

CONSTRUCTION NOTES

1. ALL SIZES TO BE VERIFIED IN FIELD WITH FRAMING.
2. ALL THRESHOLDS SHALL BE ALUMINUM.
3. ALL WEATHER STRIPPING SHALL BE ALUMINUM.
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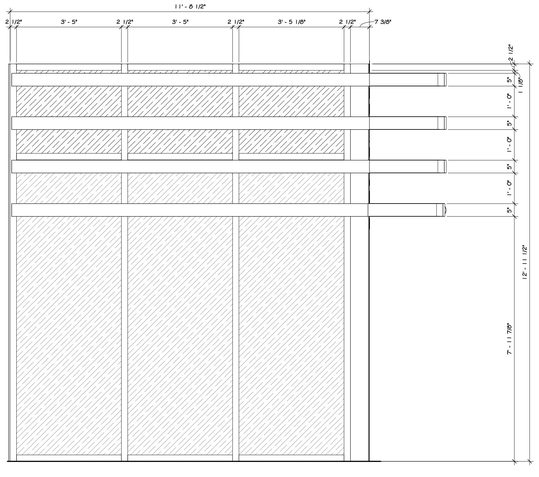
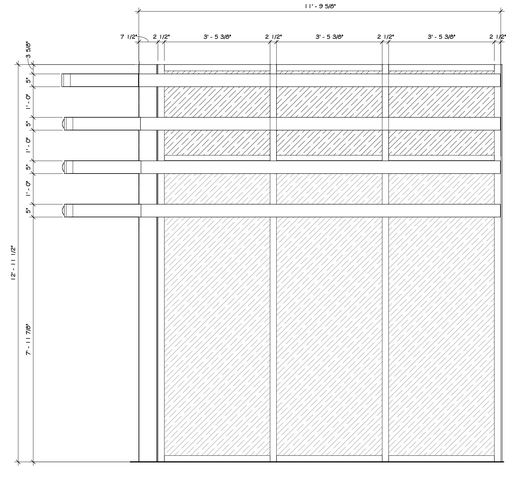
8. FURNISH KEYS FOR EACH LOCK.
9. FURNISH MASTER KEYS.
10. LABEL ALL KEYS WITH SELF-LOCKING CLIPS, BY ROOM NUMBER.
11. ALL CLOSERS TO HAVE HOLD-OPEN FEATURE.
12. DOOR AND HARDWARE SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT ONLY AFTER GENERAL CONTRACTOR HAS RECEIVED THEM AND CONFIRMED THAT ALL SIZES WORK WITH ROUGH OPENINGS FRAMED IN THE FIELD. SUBMITTED SHOP DRAWINGS MUST CONTAIN APPROVAL SIGNATURE FROM GENERAL CONTRACTOR PRIOR TO SUBMISSION TO ARCHITECT.



2 STOREFRONT @ BREAK ROOM ELEVATION - A

1/2" = 1'-0"



3 STOREFRONT @ BREAK ROOM ELEVATION - B

1/2" = 1'-0"

REVISIONS:

NUM.	DATE	DESCRIPTION
C	05/02/25	ADDENDUM 4

100% BID DOCUMENTS

PROJECT

KEY PLAN

WORK AREA

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ARCHITECTURE • PLANNING • INTERIORS

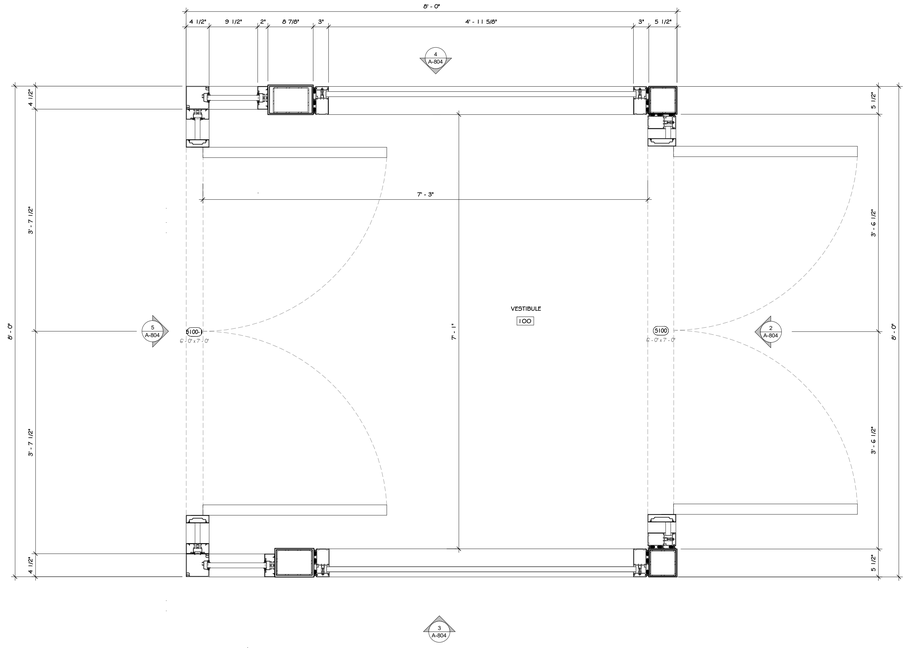
Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

Drawing: CURTAIN WALL SCHEDULE 6

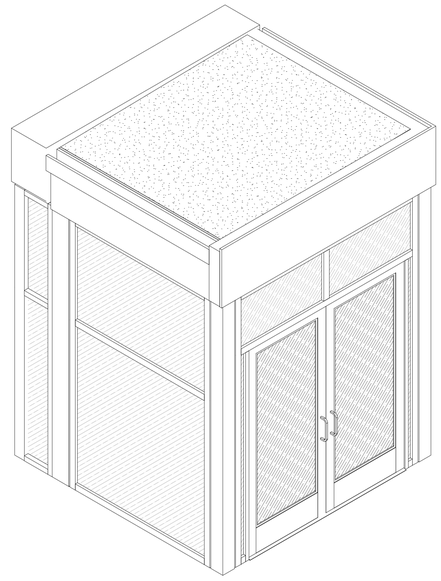
REGISTERED ARCHITECT JASON T. ANDERSON 032127 STATE OF NEW YORK
05/02/2025
Exp. 02/28/2026

Project:	23138	Date:	02/24/25
Drawn:	IDEA	Scale:	AS NOTED

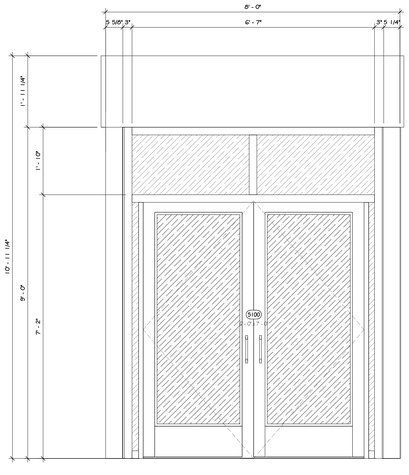
Drawing Number: A-804



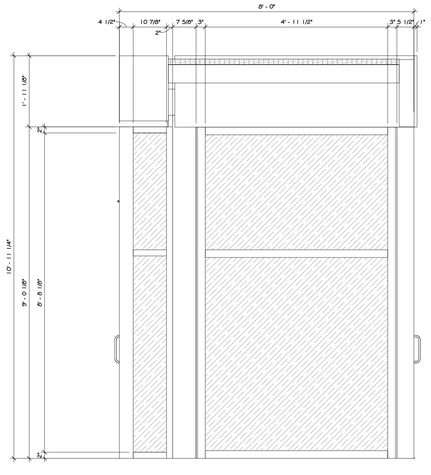
1 STOREFRONT PLAN @ VESTIBULE
1" = 1'-0"



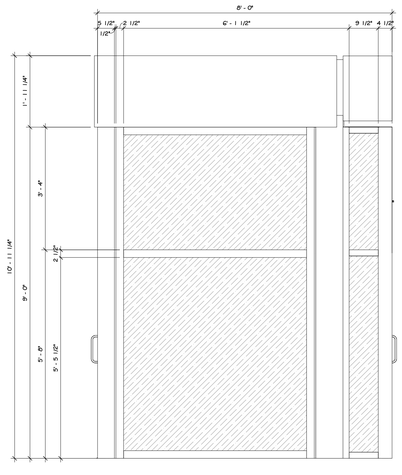
3D VIEW @ VESTIBULE



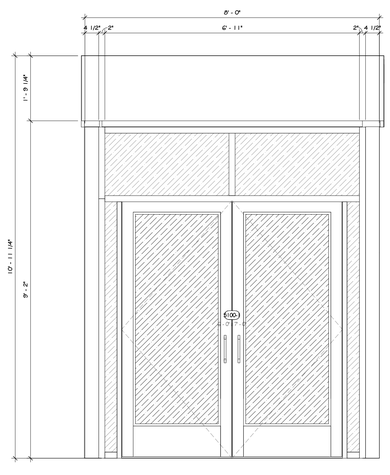
FRONT ELEVATION



RIGHT ELEVATION



LEFT ELEVATION



REAR ELEVATION

2 VESTIBULE ELEVATION
1" = 20'-0"

CONSTRUCTION NOTES

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2. ALL THRESHOLDS SHALL BE ALUMINUM.
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REVISIONS:

NUM.	DATE	DESCRIPTION
4	05/02/25	ADDENDUM 4

100% **BID DOCUMENTS**

PROJECT

KEY PLAN — WORK AREA

ADG ARCHITECTS
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Project: TOWN OF MONTGOMERY POLICE STATION
106 BRACKEN ROAD
MONTGOMERY, NEW YORK 12549

Drawing: STOREFRONT SCHEDULE

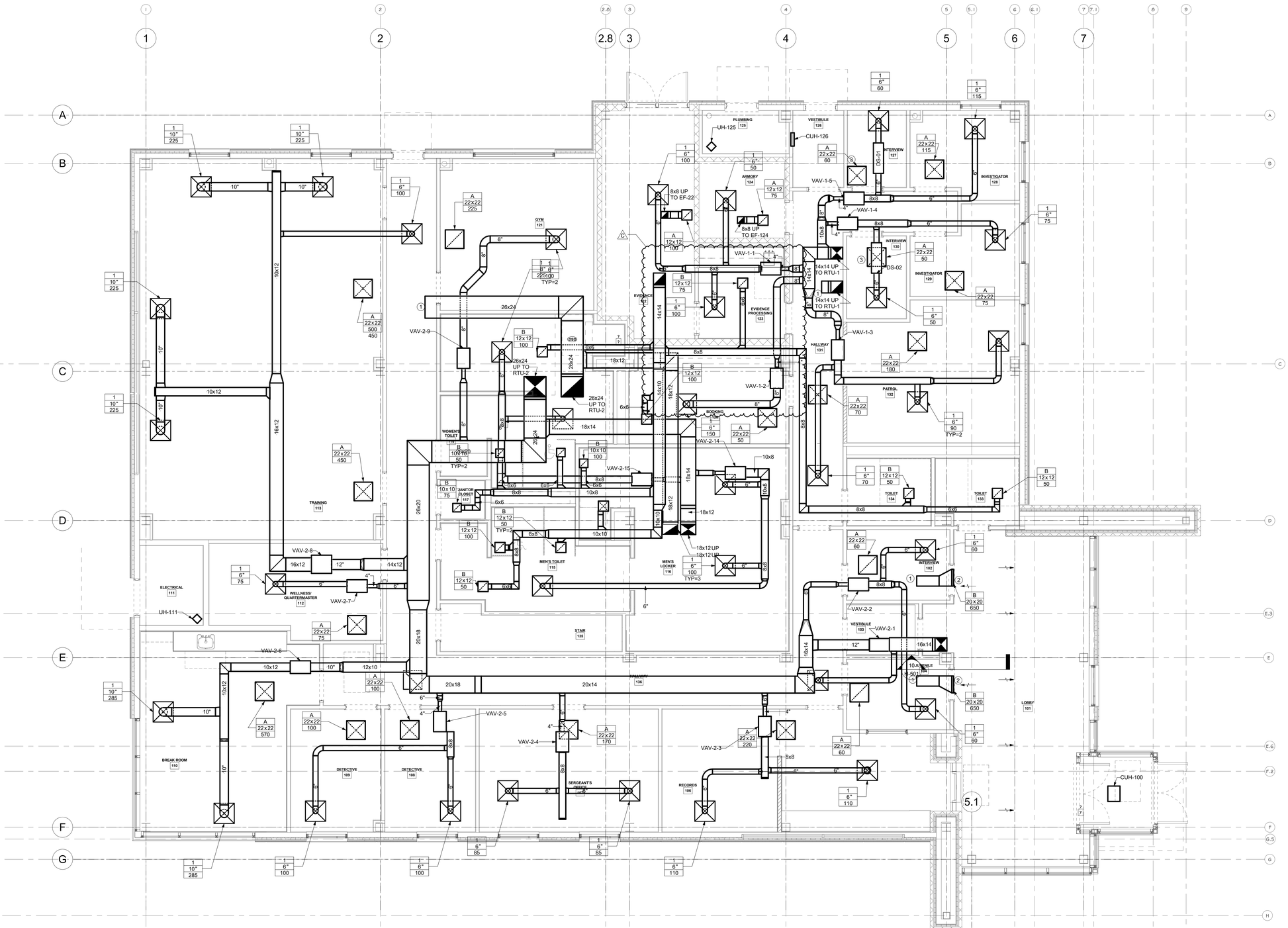
REGISTERED ARCHITECT JASON T. ANDERSON 033127 STATE OF NEW YORK
05/02/2025
Exp. 02/28/2026

Project:	23138	Date:	02/24/25
Drawn:	IDEA	Scale:	AS NOTED

Drawing Number: A-805

H-101 DRAWING... (X)

1 OPEN ENDED DUCT. CUT AT 45 DEGREE ANGLE.
2 RETURN GRILLE TO BE CENTERED ON DOOR FRAME. MOUNT AS HIGH AS POSSIBLE WHILE KEEPING ASSOCIATED DUCTWORK IN FIRST FLOOR CEILING SPACE.
3 PROVIDE PRICE RETURN AIR SILENCER (RAS) AT RETURN GRILLE. SIZE OF RAS TO MATCH RETURN GRILLE SIZE.



I FIRST FLOOR PLAN - HVAC
1/4" = 1'-0"

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Mechanical/Electrical Engineering Consultants
Capital District | Rochester | Buffalo | Syracuse
433 STATE STREET, 4TH FLOOR
SCHENECTADY, NY 12305
518.533.2171
www.meengineering.com

REVISIONS:

NUM.	DATE	DESCRIPTION
B	04/25/25	ADDENDUM 3
C	05/02/25	ADDENDUM 4

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KEY PLAN
WORK AREA

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WWW.ADGARCHITECT.COM
CONTACT@ADGARCHITECT.COM
ARCHITECTURE • PLANNING • INTERIORS

Project: TOWN OF MONTGOMERY POLICE STATION
110 BRACKEN ROAD, MONTGOMERY,
NEW YORK 12549

Drawing: FIRST FLOOR PLAN - HVAC

STATE OF NEW YORK · MICHAEL K. SULLIVAN · 077887-1 · PROFESSIONAL ENGINEER
Reg. Exp: 05/31/2027
Cert. of Auth: 0018443

Project: 23138	Date: 2/24/25
Drawn: JDH	Scale: AS NOTED

Drawing Number: H-101

DRAFT

AIA® Document G804™ – 2001

Register of Bid Documents

PROJECT: *(Name and address)*
Town of Montgomery Police Station
106 Bracken Road
Montgomery, NY
12549

OWNER: *(Name and address)*
Town of Montgomery
110 Bracken Road
Montgomery, NY 12549

ARCHITECT: *(Name and address)*
Jason T. Anderson Architect, P.C. dba ADG Architects and
Anderson Design Group
25 Wallkill Avenue
Montgomery, New York 12549

PROJECT NUMBER: 23138
ADVERTISEMENT OR INVITATION TO BIDDERS: Advertisement
DATE PUBLISHED: 03-18-25

SOLICITATION TYPE:
☐ open ☐ invited ☐ list ☐ pre-qualified ☐ other

RELEASE OF DOCUMENT DATE: 04-01-25
BIDS DUE ON: *(Date and time)*05-14-25 @2pm
AT: *(Address)*110 Bracken Rd., Montgomery NY 12549

DEPOSIT: $100
REFUND: $100
FORFEITURE DATE: 30 DAYS FROM CONTRACT AWARD
SPECIAL INSTRUCTIONS: Walk through 04-14-25 10am Town Hall

ADDENDA: *(Indicate issue date)* 1. 04-14-25 2. 04-17-25 3. 4. 5. 6.

Bidder	Bid Received	Addenda Issued	Recipient *(Company name, address, phone and fax numbers)*	Deposit / Refund	Documents
Tony Cimahosky	04-01-25 Email	04-14-25 04-17-25 04-28-25	Key Construction – 845-454-1192 4246 Albany Post Rd., Suite 1, Hyde Park, NY 12538	Date Received: $ Received:	Date Issued: 4-1-25 # of Sets Issued: Digital
Scott Miller	04-01-25 Email	04-14-25 04-17-25 04-28-25	JTPNY – 714-552-0293 PO Box 388, Wallkill, NY 12589	Date Received: $ Received:	Date Issued: 4-1-25 # of Sets Issued: Digital
Ivo Dostinoski	04-01-25 Email	04-14-25 04-17-25 04-28-25	UniMak LLC – 973-478-4925 82 Midland Ave., Saddlebrook, NJ 07663	Date Received: $ Received:	Date Issued: 4-1-25 # of Sets Issued: Digital
Matthew Lawrence	(SJZ sent)	04-14-25 04-17-25 04-28-25	Baxter Built – 845-471-1047 11 Garden St., Poughkeepsie, NY 12601	Date Received: $ Received:	Date Issued: 4-1-25 # of Sets Issued: Digital

Lydia Buccafusca	04-01-25 Email	04-14-25 04-17-25 04-28-25	Piazza Brothers Inc. – 914-741-4435 3 W Stevens Ave., Hawthorne, NY 10532	Date Received: $ Received:	Date Issued: 4-1-25 # of Sets Issued: Digital
Libra Thient	04-02-25 Email	04-14-25 04-17-25 04-28-25	Lindi Construction – 212-202-0222 202 W. 40th St., #1202, New York, NY 10018	Date Received: $ Received:	Date Issued: 4-2-25 # of Sets Issued:
Corinne Eitel / Henri Bradshaw	04-02-25 Email	04-14-25 04-17-25 04-28-25	Construct Connect – 513-458-5895 / 513-458-5815 3825 Edwards Rd., Suite 800, Cincinnati, OH 45209	Date Received: $ Received:	Date Issued: 4-2-25 # of Sets Issued: Digital
Anthony Barone	(SJZ sent)	04-14-25 04-17-25 04-28-25	Barone Construction Group, Inc. – 845-691-2244 23 New Paltz Rd, PO Box 876, Highland, NY 12528	Date Received: $ Received:	Date Issued: 4-2-25 # of Sets Issued: Digital
Peter (Panagiotis) Bayiokos - Matt Seckler - Dan Fischer	04-02-25 Email	04-14-25 04-17-25 04-28-25	Consigli – 845-685-5739 199 West Rd., Suite100, Pleasant Valley, NY 12569	Date Received: $ Received:	Date Issued: 4-2-25 # of Sets Issued: Digital
Corinne Leissler	04-02-25 Email	04-14-25 04-17-25 04-28-25	Paramount Building Construction, Inc. – 845-569-0970 28 Windsor Hwy., New Windsor, NY 12553	Date Received: $ Received:	Date Issued: 4-2-25 # of Sets Issued: Digital
Chad Martell	04-02-25 Email	04-14-25 04-17-25	Martell Builders – 845-856-7951 1 Eagle Ct., Sparrow Bush, NY 12780	Date Received: $ Received:	Date Issued: 4-2-25 # of Sets Issued: Digital
John Doroy	04-02-25 Email	04-14-25 04-17-25 04-28-25	Dodge Construction Network – 844-326-3826 (Ext. 9210) 2860 S. State Hwy. 161, Suite 501, Grand Prairie, TX 75052	Date Received: $ Received:	Date Issued: 4-2-25 # of Sets Issued: Digital
Ed Spitzbarth	04-02-25 Email	04-14-25 04-17-25 04-28-25	Care Security Systems – 845-642-8286 9 Hermion Rd., Montebello, NY 10901	Date Received: $ Received:	Date Issued: 4-2-25 # of Sets Issued: Digital
Jason Pettit	04-03-25 Email	04-14-25 04-17-25 04-28-25	Darlind Associates, Inc. – 845-232-5115 (Ext. 214) 1540 State Route 55, LaGrangeville, NY 12540	Date Received: $ Received:	Date Issued: 4-2-25 # of Sets Issued: Digital
John Mari	04-03-25 Email	04-14-25 04-17-25 04-28-25	West-Fair Electric Contractors, Inc. – 917-612-3693 25 Green St., Goshen, NY 10924	Date Received: $ Received:	Date Issued: 4-3-25 # of Sets Issued: Digital
Linda Arias	04-04-25 Email	04-14-25 04-17-25 04-28-25	CIS – Construction Information Systems – 973-492-0509 170 Kinnelon, NJ 07405	Date Received: $ Received:	Date Issued: 4-4-25 # of Sets Issued: Digital
Alex Amend	04-04-25 Email	04-14-25 04-17-25 04-28-25	Standback GC LLC – 845-500-3712 1161 Little Britian Rd., New Windsor, NY 12533	Date Received: $ Received:	Date Issued: 4-4-25 # of Sets Issued: Digital

Daniel Hopping	04-07-25 Email	04-14-25 04-17-25 04-28-25	MCS Tech Services – 845-259-1700 148 Burt St #9W, Saugerties, NY 12477	Date Received: $ Received:	Date Issued: 4-7-25 # of Sets Issued: Digital
Chris Whalen	04-09-25 Email	04-14-25 04-17-25 04-28-25	Pike Construction Services - (585) 694-7102 20 Loudonville Rd, Albany, NY 12204	Date Received: $ Received:	Date Issued: 4-9-25 # of Sets Issued: Digital
Keith Bligh	04-15-25 Email	04-15-25 04-17-25 04-28-25	OCS Industries Inc. – 845-692-8450 327 Mill St., Poughkeepsie, NY 12601	Date Received: $ Received:	Date Issued: 4-15-25 # of Sets Issued: Digital
Dan Depew	(SJZ sent)	04-16-25 04-17-25 04-28-25	Holt Construction – (845) 735-4054 25 Main St. Suite 3-1, Goshen, NY 10924	Date Received: $ Received:	Date Issued: 4-16-25 # of Sets Issued: Digital
Jake Schwartzer	04-17-25 Email	04-17-25 04-28-25	JS Systems - 608-516-2650 3225 East Baseline Road, Gilbert, AZ 85234	Date Received: $ Received:	Date Issued: 4-17-25 # of Sets Issued: Digital
Jessica Horn	04-17-25 Email	04-17-25 04-28-25	Ferrari & Sons Inc. - (845)522-2590 195 Van Wagner Road, Poughkeepsie, NY 12590	Date Received: $ Received:	Date Issued: 4-17-25 # of Sets Issued: Digital
Daniel Ratto	04-21-25 Email	04-21-25 04-28-25	Lechase – 914-364-2762 1 Labriola Ct., Armonk, NY 10504	Date Received: $ Received:	Date Issued: 4-21-25 # of Sets Issued: Digital
Kathy Sica	04-21-25 Email	04-25-25 04-28-25	Audio Visual Systems & Installation, LLC - 732-634-7903 400 Raritan Center Parkway, Suite D, Edison, NJ 08837	Date Received: $ Received:	Date Issued: 4-21-25 # of Sets Issued: Digital