



Office of General Services

DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 1 TO PROJECT NO. 47477

CONSTRUCTION, HVAC, PLUMBING AND ELECTRICAL WORK RENOVATE ARMORY STATE ARMORY 2 QUINCY PLACE YONKERS, NY

September 22, 2026

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.
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BIDDING REQUIREMENTS - COMMON

1. DOCUMENT 001114 ADVERTISEMENT FOR BIDS: The last date for receipt of bids is changed from Wednesday, September 23, 2026, to Wednesday, October 7, 2026.

BIDDING REQUIREMENTS – CONSTRUCTION WORK

2. BID EXPRESS BID FORM: ALLOWANCES
The ALLOWANCES component within the CONSTRUCTION WORK solicitation has been changed from \$112,919, to “\$613,246” as described in Section 012100.

CONSTRUCTION WORK SPECIFICATIONS

3. SECTION 085113 ALUMINUM WINDOWS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 085113 – 1 thru 085113 – 7) noted “Printed 9/21/2026”.
4. SECTION 087100.1 DOOR HARDWARE SCHEDULE: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 087100.1 – 1 thru 087100.1 – 14) noted “Printed 9/16/2026”.
5. SECTION 088000 GLAZING: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 088000– 1 thru 088000– 11) noted “Printed 9/10/2026”.
6. SECTION 088813 FIRE RATED GLAZING: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 088813– 1 thru 088813– 6) noted “Printed 9/16/2026”.

7. SECTION 102233 ACCORDION FOLDING PARTITIONS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 102233– 1 thru 102233– 10) noted “Printed 9/3/2026”.
8. Section 104416 FIRE EXTINGUISHERS: Add the accompanying Section (pages 104416 – 1 and 104416 – 2) to the Project Manual.

CONSTRUCTION WORK APPENDIX

9. SCHEDULE OF SUBMITTALS: Discard the Schedule of Submittals bound in the Project Manual and use the accompanying Schedule of Submittals dated 9/21/2026.

CONSTRUCTION WORK DRAWINGS

10. Revised Drawings:
 - a. Drawing Nos. G-001, S-102, S-502, AD-103, AD-201, A-104, A-105, A-122, A-201, A-211, A-405, A-414, A-603, A-609, and I-602 noted Addendum 1, dated 09/16/2026, accompanies this Addendum and supersedes the same numbered previously issued drawings.

HVAC WORK DRAWINGS

11. Revised Drawings:
 - a. Drawing No. M-601 noted Addendum 1, dated 09/16/2026, accompanies this Addendum and supersedes the same numbered previously issued drawings.

ELECTRICAL WORK DRAWINGS

12. Revised Drawings:
 - b. Drawing Nos. E-100 & E-601 noted Addendum 1, dated 09/16/2026, accompanies this Addendum and supersedes the same numbered previously issued drawings.

END OF ADDENDUM

Brady M. Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 085113 - ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes aluminum windows for exterior locations.
- B. Related Sections:
 - 1. Section 019119 for Related Building Enclosure Commissioning.
 - 2. Section 079200 for Joint Sealants
 - 3. Section 088000 for Glazing and Spandrel Panel Types.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, glazing and fabrication methods, dimensions of individual components and profiles, hardware, and finishes for aluminum windows.
 - 2. Include manufacturer's installation instructions.
- E. Shop Drawings: For aluminum windows.
 - 1. Include plans, elevations, sections, hardware, accessories, insect screens, operational clearances, and details of installation, including anchor, flashing, and sealant installation.
- F. Samples: Corner section for each type of window unit and for each color specified, 8 by 8 inches in size.
 - 1. Include as part of corner section: frame, sash, and insect screen.
 - 2. Provide manufacturer's standard color finishes for selection.
- G. Product Schedule: For aluminum windows. Use same designations indicated on Drawings.

H. Quality Control Submittals:

1. Qualification Data: For manufacturer and Installer.
 - a. Names and address of 3 similar projects that Installer has worked on during the past 5 years.
2. Product Test Reports: For each type of aluminum window, for tests performed by a qualified testing agency.
3. Sample Warranties: For manufacturer's warranties.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A manufacturer capable of fabricating aluminum windows that meet or exceed performance requirements indicated and of documenting this performance by test reports and calculations.
- B. Mockups: Build Mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
 1. Build Mockup of typical aluminum window assembly as shown on Drawings, including corner, soffits, supports, attachments, and accessories.
 2. Water-Spray Test: Conduct water-spray test of metal panel assembly mockup, testing for water penetration according to AAMA 501.2.
 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in Benchmarks unless Director's Representative specifically approves such deviations in writing.
 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
- C. Installer Qualifications: An installer acceptable to aluminum window manufacturer for installation of units required for this Project and have a minimum 10 years' experience.
- D. Label: each window unit shall have a AAMA or WDMA Certification label affixed to it.

1.5 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace aluminum windows that fail in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Failure to meet performance requirements.
 - b. Structural failures including excessive deflection, water leakage, condensation, and air infiltration.
 - c. Faulty operation of movable sash and hardware.
 - d. Deterioration of materials and finishes beyond normal weathering.
 - e. Failure of insulating glass.

2. Warranty Period:

- a. Window: 10 years from date of Substantial Completion.
- b. Glazing Units: 20 years from date of Substantial Completion.
- c. Aluminum Finish: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain aluminum windows from single source from single manufacturer.

2.2 WINDOW PERFORMANCE REQUIREMENTS

- A. Product Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.
- 1. Window Certification: AAMA certified with label attached to each window.
- B. Performance Class and Grade: AAMA/WDMA/CSA 101/I.S.2/A440 as follows:
- 1. Minimum Performance Class: AW.
 - 2. Minimum Performance Grade: 100.
- C. Thermal Transmittance: NFRC 100 maximum whole-window U-factor of 0.30 Btu/sq. ft. x h x deg F.
- D. Solar Heat-Gain Coefficient (SHGC): NFRC 200 maximum whole-window SHGC of 0.36.
- E. Condensation-Resistance Factor (CRF): Provide aluminum windows tested for thermal performance according to AAMA 1503, showing a CRF of 52.
- F. Thermal Movements: Provide aluminum windows, including anchorage, that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
- 1. Temperature Change: 120 deg F ambient; 180 deg F material surfaces.
- G. Sound Transmission Class (STC): Rated for not less than 35 STC when tested for laboratory sound transmission loss according to ASTM E90 and determined by ASTM E413.
- H. Outside-Inside Transmission Class (OITC): Rated for not less than 30 OITC when tested for laboratory sound transmission loss according to ASTM E90 and determined by ASTM E1332.

- I. Windborne-Debris Impact Resistance: Passes ASTM E1886 missile-impact and cyclic-pressure tests in accordance with ASTM E1996 for Wind Zone 2 for basic protection.

2.3 ALUMINUM WINDOWS

- A. Manufacturer: Acceptable window manufacturers that may be incorporated into the work include:
 - 1. Kawneer; 8400 Series (Basis of Design)
 - 2. Architectural Windows
 - 3. Oldcastle Building Envelope (OBE)
 - 4. YKK AP America
 - 5. EFCO Corporation
- B. Types: Provide the following types in locations indicated on Drawings:
 - 1. Fixed.
- C. Frames and Sashes: Aluminum extrusions complying with AAMA/WDMA/CSA 101/IS.2/A440.
 - 1. Aluminum: ASTM B221:6063-T6 alloy minimum unless other alloy and temper recommended by manufacturer for type of use and finish indicated.
 - 2. Thermally Improved Construction: 3/8" nominal high-density polyurethane thermal barrier.
 - 3. Frame Thickness: 0.070" aluminum thickness, minimum.
 - 4. Frame Depth: 4" nominal.
 - 5. Glazing Plane: Rear.
 - 6. Finish: AAMA 2605 70% Fluoropolymer Resin Finish.
- D. Insulating Glass Units: Refer to 088000 "Glazing"
- E. Insulating Metal Spandrel Panel Units: Refer to 088000 "Glazing"

2.4 ACCESSORIES

- A. Subsills: Thermally broken, 0.093" thick extruded-aluminum subsills in configurations indicated on Drawings.
- B. Factory Muller Window Units: Extruded-aluminum profiles in sizes and configurations indicated on Drawings.
- C. Receptor System: Two-piece, snap-together, thermally broken, extruded-aluminum receptor system that anchors windows in place.
- D. Flexible Membrane Flashing: Henry Blueskin "Zero Flash" flashing tape or approved equal; 6" wide tape minimum.

2.5 FABRICATION

- A. Fabricate aluminum windows in sizes indicated. Include a complete system for assembling components and anchoring windows.
- B. Glaze aluminum windows in the factory.
- C. Weather strip each operable sash to provide weathertight installation.
- D. Weep Holes: Provide weep holes and internal passages to conduct infiltrating water to exterior.
- E. Provide water-shed members above side-hinged sashes and similar lines of natural water penetration.
- F. Mullions: Provide mullions and cover plates, matching window units, complete with anchors for support to structure and installation of window units. Allow for erection tolerances and provide for movement of window units due to thermal expansion and building deflections. Provide mullions and cover plates capable of withstanding design wind loads of window units.
- G. Complete fabrication, assembly, finishing, hardware application, and other work in the factory to greatest extent possible. Disassemble components only as necessary for shipment and installation.

2.6 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.7 ALUMINUM FINISHES

- A. Two-Coat PVDF Color Finish: AAMA 2605 70% Fluoropolymer Resin Finish.
 - 1. Color: Refer to drawings for scheduled finish, to be selected from the manufacturer's standard color options. Color must match color finishes of storefront and curtainwall systems specified elsewhere.
 - 2. Color: To be selected from the full line of manufacturer standard colors.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Verify rough opening dimensions, levelness of sill plate, and operational clearances.
- C. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure weathertight window installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's written instructions for installing windows, hardware, accessories, and other components. For installation procedures and requirements not addressed in manufacturer's written instructions, comply with installation requirements in ASTM E2112.
- B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction to produce weathertight construction.
- C. Install windows and components to drain condensation, water penetrating joints, and moisture migrating within windows to the exterior.
- D. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

3.3 FIELD QUALITY CONTROL

- A. Refer to Section 019119 "Building Enclosure Commissioning" for additional information on specific responsibilities and testing goals.
- B. Testing Agency: Contractor to Engage a qualified testing agency to perform tests and inspections.
 - 1. Building Enclosure Commissioning Provider will interpret tests and state in each report whether tested work complies with or deviates from requirements.
- C. Test Area: Perform tests on representative areas of glazed aluminum windows.
- D. Field Quality-Control Testing: Perform the following tests on representative areas of windows.
 - 1. Air Leakage: ASTM E783 at 1.5 times the rate specified for laboratory testing in "Performance Requirements" Article but not more than 0.1 cfm/sq. ft. at a static-air-pressure differential of 6.24 lbf/sq. ft.

- a. Perform a minimum of tests in areas as directed by Director's Representative.
- 2. Water Penetration: ASTM E1105 at a minimum uniform static-air-pressure differential of 0.67 times the static-air-pressure differential specified for laboratory testing in "Performance Requirements" Article, but not less than 12 lbf/sq. ft., and shall not evidence water penetration.
- E. Windows will be considered defective if they do not pass tests and inspections.
- F. Prepare test and inspection reports.

3.4 ADJUSTING, CLEANING, AND PROTECTION

- A. Adjust operating sashes and hardware for a tight fit at contact points and weather stripping for smooth operation and weathertight closure.
- B. Clean exposed surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
 - 1. Keep protective films and coverings in place until final cleaning.
- C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.
- D. Protect window surfaces from contact with contaminating substances resulting from construction operations. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written instructions.

END OF SECTION 085113

DOOR INDEX

Door Number	Hdwe Set	Keyset	Door Number	Hdwe Set	Keyset
101A	01.00		219A	20.00	
102A	02.00		219B	20.00	
102B	02A.00		220A	21.00	
102C	04.00		220B	22.00	
102D	03.00		221	23.00	
103	02.00		222	07.00	
104	05.00		223	07.00	
105	06.00		224	13.00	
106	06.00		225	07.00	
107	07.00		226	18.00	
108	06.00		227	18.00	
109	06.00		228	18.00	
110	07.00		229	06.00	
111	08.00		230A	06.00	
112	08.00		230D	06.00	
115	09.00		231A	06.00	
116	08.00		231B	06.00	
117A	10.00		232A	06.00	
117B	09.00		232B	06.00	
117C	11.00		233	06.00	
117D	12.00		234A	06.00	
117E	13.00		234B	06.00	
119	23.00		235A	18.00	
120A	04.00		235B	18.00	
120B	07.00		236	18.00	
201	07.00		237	18.00	
202	07.00		238	18.00	
203	07.00		239	24.00	
204	07.00		C1	06.00	
205	07.00		C2A	07.00	
206	07.00		C2B	25.00	
207	07.00		C3	15.00	
208	05.00		S3-1A	16.00	
209	05.00		S3-1B	17.00	
210	05.00		S3-2	15.00	
211	07.00		S4	07.00	
212	19.00				
213	07.00				
214	07.00				
215	19.00				
216	19.00				
217	07.00				
218	07.00				

Heading # 01.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
101A			HM	HM	5'-0" x 7'-0" x 1-3/4"			1	PAIR
Qty Act	Qty Inact	Description				Finish	Mfr		
3	3	4-1/2 Hvy Wt(.180) Hinge	T4A3386	4-1/2" x 4-1/2" NRF		32D	McKinney	100A	
0	2	Flush Bolt, Extension, Manual	555			US26D	Rockwood	200A	
1	0	Mortise Lockset	63-DG1-8205	x LW1L x MK		US26D	Sargent	311A	
1	0	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	0	Door Seal	700ES	{60"w x 84"h}		MILL	National Guard	800B	
1	0	Meeting Stile	600A(SET)	{60"w x 84"h}		A	National Guard	804A	
1	1	Sweep	200NA	(30"w}		A	National Guard	801A	
1	0	Threshold	612SS	x SIA {60"w}		SS	National Guard	802B	
Note									

Heading # 02.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
102A			HM	HM	6'-0" x 7'-0" x 1-3/4"			1	PAIR
103			HM	HM	6'-0" x 7'-0" x 1-3/4"			1	PAIR
Qty Act	Qty Inact	Description				Finish	Mfr		
3	3	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
0	2	Flush Bolt, Extension, Manual	555			US26D	Rockwood	200A	
1	0	Mortise Lockset	63-DG1-8205	x LW1L x MK		US26D	Sargent	311A	
1	1	Kickplate	K1050	x 4BE x CSK x 10"h {34"w}		US32D	Rockwood	600A	
1	1	Wall Stop	400			US26D	Rockwood	700A	
1	1	Silencer	608-RKW			GRAY	Rockwood	900A	
Note									

Heading # 02A.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
102B			HM	HM	6'-0" x 7'-0" x 1-3/4"	C45		1	PAIR
Qty Act	Qty Inact	Description				Finish	Mfr		
3	3	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
0	2	Flush Bolt, Extension, Manual	555			US26D	Rockwood	200A	
1	0	Mortise Lockset	63-DG1-8205	x LW1L x MK		US26D	Sargent	311A	
1	0	Closer - Parallel Arm with 5th screw	281-P10			EN	Sargent	501A	
1	1	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	1	Wall Stop	400			US26D	Rockwood	700A	
1	0	Astragal	S771BL7	{84"h}		BL	Pemko	806A	
1	0	Gasketing	S88D21	{72"w x 84"h}		D	Pemko	803B	
Note									

Heading # 03.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
102D			HM	HM	6'-0" x 7'-0" x 1-3/4"			1	PAIR
Qty Act	Qty Inact	Description				Finish	Mfr		
3	3	4-1/2 Hvy Wt(.180) Hinge	T4A3386	4-1/2" x 4-1/2" NRP		32D	McKinney	100A	
1	0	Push Pad, SVR	63-DG1-8713F	36"w x 84"h x ETL x 624 x 646 x 41"AFF x MK {36"w x 84"h}		US32D	Sargent	301A	
0	1	Push Pad, SVR	8710F	36"w x 84"h x No Trim x 624 x 646 x 41"AFF {36"w x 84"h}		US32D	Sargent	302A	
1	1	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	0	Door Seal	700ES	{72"w x 84"h}		MILL	National Guard	800C	
1	0	Meeting Stile	600A(SET)	{72"w x 84"h}		A	National Guard	804B	
1	1	Sweep	200NA	{36"w}		A	National Guard	801B	
1	0	Threshold	612SS	x SIA {72"w}		SS	National Guard	802C	
Note									

Heading # 04.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
102C			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
120A			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
Qty Act	Qty Inact	Description				Finish	Mfr		
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3386	4-1/2" x 4-1/2" NRP		32D	McKinney	100A	
1	0	Mortise Lockset	63-DG1-8205	x LW1L x MK		US26D	Sargent	311A	
1	0	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	0	Door Seal	700ES	{36"w x 84"h}		MILL	National Guard	800A	
1	0	Sweep	200NA	(36"w}		A	National Guard	801B	
1	0	Threshold	612SS	x SIA {36"w}		SS	National Guard	802A	
Note									

Heading # 05.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
104			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
208			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
209			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
210			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
Qty Act	Qty Inact	Description				Finish	Mfr		
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
1	0	Mortise Lockset	63-DG1-8205	x LW1L x MK		US26D	Sargent	311A	
1	0	Electric Strikes/Mag Locks	1006CLB-12/24D-630	x 2005M3		630	Hes	303A	
1	0	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	0	Kickplate	K1050	x 4BE x CSK x 10"h {34"w}		US32D	Rockwood	600A	
1	0	Silencer	608-RKW			GRAY	Rockwood	900A	
Note									
Access control / card reader By Others									

Heading # 06.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
105			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
106			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
108			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
109			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
229			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
230A			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
230D			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
231A			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
231B			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
232A			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
232B			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
233			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
234A			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
234B			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
C1			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL

Qty Act	Qty Inact	Description		Finish	Mfr	
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3786 4-1/2" x 4-1/2" NRP	26D	McKinney	101A
1	0	Push Plate	70C-RKW	US32D	Rockwood	401A
1	0	Pull Plate	102 X 70C	US32D	Rockwood	400A
1	0	Closer	281-UO	EN	Sargent	502A
1	0	Kickplate	K1050 x 4BE x CSK x 10"h(34"w}	US32D	Rockwood	600A
3	0	Silencer	608-RKW	GRAY	Rockwood	900A
Note						

Heading # 07.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
107			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
110			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
120B			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
S4			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
201			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
202			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
203			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
204			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
205			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
206			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
207			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
211			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
213			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
214			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
217			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
218			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
222			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
223			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
225			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
C2A			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL

Qty Act	Qty Inact	Description		Finish	Mfr	
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3786 4-1/2" x 4-1/2" NRP	26D	McKinney	101A
1	0	Mortise Lockset	63-DG1-8205 x LWIL x MK	US26D	Sargent	311A
1	0	Kickplate	K1050 x 4BE x CSK x 10"h{34"w}	US32D	Rockwood	600A
1	0	Wall Stop	400	US26D	Rockwood	700A
3	0	Silencer	608-RKW	GRAY	Rockwood	900A

Note

Heading # 08.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
111			HM	HM	6'-0" x 7'-0" x 1-3/4"			1	PAIR
112			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
116			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL

Qty Act	Qty Inact	Description				Finish	Mfr		
3	3	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
0	2	Flush Bolt, Extension, Manual	555			US26D	Rockwood	200A	
1	0	Mortise Lockset	63-DG1-8205	x LW1L x MK		US26D	Sargent	311A	
0	1	Electric Strikes/Mag Locks	1006CLB-12/24D-630	x 2005M3		630	Hes	303A	
1	0	Closer	281-UO			EN	Sargent	502A	
1	1	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	1	Wall Stop	400			US26D	Rockwood	700A	
0	1	Electric Power Transfer	EL-CEPT			US32D	Securitron	901A	
1	1	Silencer	608-RKW			GRAY	Rockwood	900A	

Note

Access control / card reader By Others

Heading # 09.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
115			HM	HM	6'-0" x 7'-0" x 1-3/4"			1	PAIR
117B			HM	HM	6'-0" x 7'-0" x 1-3/4"			1	PAIR

Qty Act	Qty Inact	Description				Finish	Mfr		
3	3	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
1	1	Push Pad, SVR	63-DG1-NB8713F	36"w x 84"h x ETL x 646 x 41"AFF	US32D		Sargent	304A	
i	i	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	1	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	1	Silencer	608-RKW			GRAY	Rockwood	900A	

Note

Heading # 10.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
117A			HM	HM	6'-0" x 7'-0" x 1-3/4"			1	PAIR
Qty	Qty	Description				Finish	Mfr		
Act	Inact								
3	3	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
1	1	Push Pad, SVR	63-DG1-NB8713F	36"w x 84"h x ETL x 646 x 41"AFF x MK(36"w x 84"h}		US32D	Sargent	304A	
1	1	Closer - Parallel Arm with 5th screw	281-P10			EN	Sargent	501A	
1	1	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	1	Silencer	608-RKW			GRAY	Rockwood	900A	
Note									

Heading # 11.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
117C			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
Qty	Qty	Description				Finish	Mfr		
Act	Inact								
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3386	4-1/2" x 4-1/2" NRP		32D	McKinney	100A	
1	0	Push Pad, Rim	8810F	36"w x No Trim x 649{36"w}		US32D	Sargent	305A	
1	0	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	0	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	0	Door Seal	700ES	{36"w x 84"h}		MILL	National Guard	800A	
1	0	Sweep	200NA	{36"w}		A	National Guard	801B	
1	0	Threshold	612SS	x SIA {36"w}		SS	National Guard	802A	
Note									

Heading # 12.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
117D			HM	HM	6'-0" x 7'-0" x 1-3/4"			1	PAIR
Qty	Qty	Description				Finish	Mfr		
Act	Inact								
3	3	4-1/2 Std Wt(.134) Hinge	TA2714	4-1/2" x 4-1/2"		26D	McKinney	102A	
0	2	Flush Bolt, Extension, Manual	555			US26D	Rockwood	200A	
1	0	Mortise Passage	8215	x LW1L		US26D	Sargent	306A	
1	1	Surface Overhead Holder/Stop, Std Duty	1548S	{36"w}		US26D	Sargent	701A	
1	1	Silencer	608-RKW			GRAY	Rockwood	900A	
Note									

Heading # 13.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
117E			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
224			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
Qty Act	Qty Inact	Description				Finish	Mfr		
3	0	4-1/2 Std Wt(.134) Hinge	TA2714	4-1/2" x 4-1/2"		26D	McKinney	102A	
1	0	Mortise Passage	8215	x LW1L		US26D	Sargent	306A	
1	0	Wall Stop	400			US26D	Rockwood	700A	
3	0	Silencer	608-RKW			GRAY	Rockwood	900A	
Note									

Heading # 15.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
C3			HM	HM	3'-0"x 7'-0"x 1-3/4"	B90		1	SNGL
S3-2			HM	HM	3'-0"x 7'-0"x 1-3/4"	B90		1	SNGL
Qty Act	Qty Inact	Description				Finish	Mfr		
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2"x 4-1/2"NRP		26D	McKinney	101A	
1	0	Push Pad, Rim	63-DG1-12-8813F	36"w x ETL x 649 x MK(36"w}		US32D	Sargent	308A	
1	0	Closer	281-UO			EN	Sargent	502A	
1	0	Kickplate	K1050	x 4BE x CSK x 10"h {34"w}		US32D	Rockwood	600A	
1	0	Wall Stop	400			US26D	Rockwood	700A	
1	0	Gasketing	S88D21	{36"wx 84"h}		D	Pemko	803A	
Note									

Heading # 16.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
S3-1A			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
Qty	Qty	Description				Finish	Mfr		
Act	Inact								
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3386	4-1/2"x 4-1/2"NRP		32D	McKinney	100A	
1	0	Push Pad, Rim	56-63-DG1-8804F	36"w x PSB x 649 x MK{36"w}		US32D	Sargent	309A	
1	0	Closer - Automatic Operator	6331			689	Norton	503A	
1	0	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	0	Door Seal	700ES	{36"w x 84"h}		MILL	National Guard	800A	
1	0	Sweep	200NA	{36"w}		A	National Guard	801B	
1	0	Threshold	612SS	x SIA{36"w}		SS	National Guard	802A	
2	0	Actuator	505				Norton	805A	
1	0	Electric Power Transfer	EL-CEPT			US32D	Securitron	901A	
1	0	Power Supply	AQD2-1R				Securitron	902A	

Note

Access control / card reader By Others

Heading # 17.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
S3-1B			HM	HM	3'-0" x 7'-0" x 1-3/4"	B90		1	SNGL
Qty	Qty	Description				Finish	Mfr		
Act	Inact								
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
1	0	Push Pad, Rim	12-8815F	36"w x ETL x 649 {36"w}		US32D	Sargent	310A	
1	0	Electric Strikes/Mag Locks	9500-12/24D-630			630	Hes	318A	
1	0	Closer - Automatic Operator	6331			689	Norton	503A	
1	0	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	0	Wall Stop	400			US26D	Rockwood	700A	
2	0	Actuator	505				Norton	805A	
1	0	Gasketing	S88D21	{36"w x 84"h}		D	Pemko	803A	

Note

Access control / card reader By Others

Heading # 18.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
226			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
227			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
228			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
235A			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
235B			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
236			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
237			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
238			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL

Qty	Qty	Description				Finish	Mfr		
Act	Inact								
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
1	0	Mortise Lockset	63-DG1-8205	x LWIL x MK		US26D	Sargent	311A	
1	0	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	0	Wall Stop	400			US26D	Rockwood	700A	
3	0	Silencer	608-RKW			GRAY	Rockwood	900A	

Note

Heading # 19.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
212			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
215			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
216			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL

Qty	Qty	Description				Finish	Mfr		
Act	Inact								
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
1	0	Push Pad, Rim	63-DG1-8813F	36"w x ETL x 649 x MK(36"w}		US32D	Sargent	312A	
1	0	Closer - Parallel Arm with 5th screw	281-P10			EN	Sargent	501A	
1	0	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	0	Wall Stop	400			US26D	Rockwood	700A	
3	0	Silencer	608-RKW			GRAY	Rockwood	900A	

Note

Heading # 20.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
219A			AL	AL	6'-0" x 7'-0" x 1-3/4"			1	PAIR
219B			AL	AL	6'-0" x 7'-0" x			1	PAIR
Qty Act	Qty Inact	Description				Finish	Mfr		
1	1	Continuous Hinge	A110HDC083	{83"h}		C	Abh	103A	
1	1	Push/Pull Set	BF15647 x Type T3HD	x 33"w-CTC		US32D	Rockwood	402A	
1	1	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	1	Drop Plate	281D			EN	Sargent	504A	
1	1	Blade Stop Spacer	581-2			EN	Sargent	903A	
Note									

Heading # 21.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
220A			AL	AL	6'-0" x 7'-0" x			1	PAIR
Qty Act	Qty Inact	Description				Finish	Mfr		
0	1	Continuous Hinge	A110HDC083	{83"h}		C	Abh	103A	
1	0	Continuous Hinge	A110HDC083 x PT	{83"h}		C	Abh	104A	
1	0	Push Pad, CVR MD	56-63-DG1-AD8410F	36"w x 84"h x 106 x 862 x 41"AFF x MK {36"w x 84"h}		US32D	Sargent	313A	
0	1	Push Pad, CVR MD	AD8410F	36"w x 84"h x 862 x 41"AFF(36"w x 84"h}		US32D	Sargent	314A	
1	1	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	1	Drop Plate	281D			EN	Sargent	504A	
1	1	Sweep	200NA	{36"w}		A	National Guard	801B	
1	0	Threshold	612SS x SIA	{72"w}		SS	National Guard	802C	
1	1	Blade Stop Spacer	581-2			EN	Sargent	903A	
1	0	Electric Power Transfer	EL-CEPT			US32D	Securitron	901A	
1	0	Power Supply	AQD2-1R				Securitron	902A	
Note									
Access control / card reader By Others									

Heading # 22.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
220B			AL	AL	6'-0" x 7'-0" x			1	PAIR
Qty Act	Qty Inact	Description				Finish	Mfr		
1	1	Continuous Hinge	A110HDC083	{83"h}		C	Abh	103A	
1	1	Push Pad, CVR MD	AD8410F	36"w x 84"h x 862 x 41"AFF(36"w x 84"h}		US32D	Sargent	314A	
1	1	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	1	Drop Plate	281D			EN	Sargent	504A	
1	1	Sweep	200NA(36"w}			A	National Guard	801B	
1	0	Threshold	612SS x SIA	{72"w}		SS	National Guard	802C	
1	1	Blade Stop Spacer	581-2			EN	Sargent	903A	
Note									

Heading # 23.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
119			HM	HM	3'-0"x 7'-0"x 1-3/4"	B90		1	SNGL
221			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
Qty Act	Qty Inact	Description				Finish	Mfr		
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
1	0	Mortise Lockset	63-DG1-8237	x LW1L x MK		US26D	Sargent	315A	
1	0	Closer	281-UO			EN	Sargent	502A	
1	0	Kickplate	K1050 x 4BE x CSK	x 10"h(34"w}		US32D	Rockwood	600A	
1	0	Wall Stop	400			US26D	Rockwood	700A	
3	0	Silencer	608-RKW			GRAY	Rockwood	900A	
Note									

Heading # 24.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
239			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
Qty	Qty	Description				Finish	Mfr		
Act	Inact								
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3786	4-1/2" x 4-1/2" NRP		26D	McKinney	101A	
1	0	Push Pad, Rim	63-DG1-8813F	36"w x ETL x 649 x MK{36"w}		US32D	Sargent	312A	
1	0	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	0	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
3	0	Silencer	608-RKW			GRAY	Rockwood	900A	
Note									

Heading # 25.00

Number	Keyset	Location	Frame	Door	Size	Label	Hand	Qty	Type
C2B			HM	HM	3'-0" x 7'-0" x 1-3/4"			1	SNGL
Qty	Qty	Description				Finish	Mfr		
Act	Inact								
3	0	4-1/2 Hvy Wt(.180) Hinge	T4A3386	4-1/2" x 4-1/2" NRP		32D	McKinney	100A	
1	0	Push Pad, Rim	63-DG1-8804F	36"w x PSB x 649 x MK{36"w}		US32D	Sargent	316A	
1	0	Electric Strikes/Mag Locks	9600-12/24D-630	x 2005M3		630	Hes	317A	
1	0	Closer - Parallel Arm with 5th screw	281-CPS			EN	Sargent	500A	
1	0	Kickplate	K1050	x 4BE x CSK x 10"h{34"w}		US32D	Rockwood	600A	
1	0	Door Seal	700ES	{36"w x 84"h}		MILL	National Guard	800A	
1	0	Sweep	200NA	{36"w}		A	National Guard	801B	
1	0	Threshold	612SS	x SIA {36"w}		SS	National Guard	802A	
Note									
Access control / card reader By Others									

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Glass products.
2. Insulating glass.
3. Glazing sealants.
4. Glazing tapes.
5. Miscellaneous glazing materials.
6. Insulated Metal Spandrel Panels withing Window/ Storefront and/or Curtainwall Systems.

B. Related Requirements:

1. Section 084113 "Aluminum Framed Entrances and Storefronts."
2. Section 084413 " Glazed Aluminum Curtain Walls" for glazing sealants used in structural-sealant-glazed curtain walls.
3. Section 085113 "Aluminum Windows".
4. Section 088300 "Mirrors."
5. Section 088813 "Fire Rated Glazing".

1.3 DEFINITIONS

- A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters in accordance with ASTM C1036.
- C. IBC: International Building Code the Uniform Code.
- D. Interspace: Space between lites of an insulating-glass unit.

1.4 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.5 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
 - 1. Include manufacturer's specifications and installation instructions for each type of glass and glazing material specified, and spacers and compressible filler rod.
- E. Submit an Environmental Product Declaration (EPD) from the manufacturer for glass within this specification section, if available. A statement of the contractor's good faith effort to obtain the EPD shall be provided if not available.
- F. Glass Samples: For each type of the following products; 12 inches (300 mm) square.
 - 1. Insulating glass.
 - 2. Clear Ceramic Glass.
 - 3. Spandrel glass.
- G. Glazing Accessory Samples: For sealants and colored spacers, in 12-inch (300-mm) lengths. Install sealant Samples between two strips of material representative in color of adjoining framing system.
- H. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.
- I. Quality Control Submittals:
 - 1. Product Certificates: For glass.
 - 2. Preconstruction adhesion and compatibility test report.
 - 3. Sample Warranties: For special warranties.

1.6 QUALITY ASSURANCE

- A. Fabricated-Glass Manufacturer Qualifications: A qualified manufacturer of fabricated glass units who is approved and certified by primary glass manufacturer.
- B. Installer Qualifications: A qualified glazing contractor for this Project who is certified under the North American Contractor Certification Program (NACC) for Architectural Glass & Metal (AG&M) contractors and who employs glazing technicians certified under the Architectural Glass and Metal Technician (AGMT) certification program.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials in accordance with manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 - 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F (4.4 deg C).

1.9 WARRANTY

- A. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is obstruction of vision by dust, moisture, or film on interior surfaces of glass.
 - 1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Heat-Soaked Tempered Glass: Manufacturer agrees to replace heat-soaked tempered glass units that spontaneously break due to nickel sulfide (NiS) inclusions at a rate exceeding 0.3 percent (3/1000) within specified warranty period. Coverage for any other cause is excluded.
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations for Glass: Obtain coated glass from single source from single manufacturer.
- B. Source Limitations for Glazing Accessories: For each product and installation method, obtain from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined in accordance with the IBC and ASTM E1300:
 - 1. Design Wind Pressures: As indicated on Drawings.
 - a. Wind Design Data: As indicated on Drawings.
 - b. Basic Wind Speed: 115 mph (52 m/s).
 - c. Importance Factor: 1.0.
 - d. Exposure Category: C.
 - 2. Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch (25 mm), whichever is less.
- C. Windborne-Debris-Impact Resistance: Exterior glazing shall pass ASTM E1886 missile-impact and cyclic-pressure tests in accordance with ASTM E1996 for Wind Zone for basic protection.
 - 1. Small-Missile Test: For glazing located between 30 feet 9.1 m above grade.
- D. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- E. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 - 1. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 - 2. U-Factors: Center-of-glazing values, in accordance with NFRC 100 and based on LBL's WINDOW 7 computer program, expressed as Btu/sq. ft. x h x deg F (W/sq. m x K).
 - 3. SHGC and Visible Transmittance: Center-of-glazing values, in accordance with NFRC 200 and based on LBL's WINDOW 7 computer program.
 - 4. Visible Reflectance: Center-of-glazing values, in accordance with NFRC 300.
- F. Acoustic Performance:
 - 1. Exterior Glazing: 28 OITC.
 - 2. Interior Glazing: 37 STC.

2.3 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. AAMA Publications: AAMA GDSG-1, "Glass Design for Sloped Glazing," and AAMA TIR A7, "Sloped Glazing Guidelines."
 - 2. IGMA Publication for Sloped Glazing: IGMA TB-3001, "Guidelines for Sloped Glazing."
 - 3. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the IGCC.
- D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than thickness indicated.
 - 1. Minimum Glass Thickness for Exterior Lites: 6 mm.
- E. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.4 GLASS PRODUCTS

- A. Fully Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
 - 1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
- B. Heat-Strengthened Float Glass: ASTM C1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
 - 1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
- C. Reflective- and Low-E-Coated Vision Glass: ASTM C1376.
- D. Ceramic-Coated Spandrel Glass: ASTM C1048, Type I, Condition B, Quality-Q3.

2.5 INSULATING GLASS

- A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified in accordance with ASTM E2190.
 - 1. Sealing System: Dual seal, with manufacturer's standard primary and secondary sealants.
 - 2. Warm Edge Perimeter Spacer: Manufacturer's standard spacer material and construction.
 - 3. Desiccant: Molecular sieve or silica gel, or a blend of both.

2.6 INSULATING METAL SPANDREL PANELS

- A. Laminated, metal-faced flat panels with no deviations in plane exceeding 0.8 percent of panel dimension in width or length.
 - 1. Overall Panel Thickness: 1" thick unless noted otherwise on the drawings.
 - 2. Exterior Skin: Pre-finished aluminum.
 - a. Thickness: Manufacturer's standard for finish and texture indicated.
 - b. Finish: Match framing system.
 - c. Texture: Embossed.
 - d. Backing Sheet: 0.125-inch- thick, corrugated, high-density polyethylene.
 - 3. Interior Skin: Pre-finished aluminum.
 - a. Thickness: Manufacturer's standard for finish and texture indicated.
 - b. Finish: Matching storefront framing.
 - c. Texture: Embossed.
 - d. Backing Sheet: 0.125-inch- thick, corrugated, high-density polyethylene.
 - 4. Thermal Insulation Core: Manufacturer's standard extruded-polystyrene board.
 - a. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1) Flame-Spread Index: 25 or less.
 - 2) Smoke-Developed Index: 450 or less.
- B. Finishes: Two-Coat PVDF Color Finish: AAMA 2605 70% Fluoropolymer Resin Finish.
 - 1. Color: Refer to drawings for scheduled finish, to be selected from the manufacturer's standard color options. Color must match color finishes of windows and curtainwall systems specified elsewhere.

2.7 GLAZING SEALANTS

A. General:

1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
3. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range of industry colors.

B. Acid-Curing Silicone Glazing Sealant, Class 25: Complying with ASTM C920, Type S, Grade NS, Use NT.

2.8 MISCELLANEOUS GLAZING MATERIALS

A. General: Provide products of material, size, and shape complying with referenced glazing standard, recommended in writing by manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.

B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.

C. Setting Blocks:

1. Neoprene with Shore A durometer hardness of 85, plus or minus 5.
2. Type recommended in writing by sealant or glass manufacturer.

D. Spacers:

1. Neoprene blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
2. Type recommended in writing by sealant or glass manufacturer.

E. Edge Blocks:

1. Neoprene with Shore A durometer hardness per manufacturer's written instructions.
2. Type recommended in writing by sealant or glass manufacturer.

2.9 OBSCURE GLASS FILMS

A. Interior field or shop applied permanent translucent vinyl window privacy film; 3M Crystal Glass Finish or approved equal.

1. Thickness: 120 microns
2. Visible Light Transmittance: 70-80%

3. Solar Heat Transmittance: 60-70%
4. Fire Performance: Flame 25max/ Smoke 450max

2.10 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
 1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
 - a. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:
 1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
 2. Presence and functioning of weep systems.
 3. Minimum required face and edge clearances.
 4. Effective sealing between joints of glass-framing members.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
- B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.

- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
 - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 - 2. Provide 1/8-inch- (3-mm-) minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and in accordance with requirements in referenced glazing publications.
- H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.

3.4 TAPE GLAZING

- A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Do not remove release paper from tape until right before each glazing unit is installed.
- F. Apply heel bead of elastomeric sealant.

- G. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.5 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.7 CLEANING AND PROTECTION

- A. Immediately after installation, remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at

frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.

1. If, despite such protection, contaminating substances do contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
- C. Remove and replace glass that is damaged during construction period.
- D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

3.8 GLAZING SCHEDULE

- A. GLAZ-1: 1" thick (nominal) double pane insulated safety glass sealed unit with argon gas airspace and warm edge spacer, as follows (outside to inside surfaces):
 1. Exterior Lite - Fully Tempered Clear 1/4" Glass.
 2. Air Space - Argon Gas.
 3. Interior Lite(s): Low-E Coating on the #3 surface with two lites of fully laminated 1/8" thick (nominal) of clear heat strengthened glass bonded together w/ min. 0.030" PVB interlayer.
 4. Refer to section 3-11 standard 10, Glazing in DOD United Facilities Standards 4-010-01, revised version June 2026.
 5. PVB laminated glass to be bedded to the frame with structural silicone sealant adhesive within the glazing pocket, minimum 3/8" glazing bite.
- B. GLAZ-2: 1" thick (nominal) double pane insulated sealed unit with Argon gas and warm edge spacer as follows, outside to inside surfaces:
 1. Exterior Lite - Fully Tempered Clear 1/4" Glass.
 2. Air Space - Argon Gas.
 3. Interior Lite(s): Low-E Coating on the #3 surface on Fully Tempered Clear 1/4" Glass.
- C. GLAZ-3: See Section 088813 Fire Rated Glazing.
- D. GLAZ-4: 3/8" Clear monolithic tempered safety glass with custom surface applied DMNA decals to the glass panels.
- E. SPANDREL PANELS: 1" thick insulated prefinished aluminum sandwich panels.
- F. GLAZING FILM: Where noted on the drawings, provide Obscure Privacy Films on all glass surfaces.

END OF SECTION 088000

SECTION 088813 - FIRE-RATED GLAZING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Fire-resistance-rated glazing.

1.3 DEFINITIONS

- A. Fire-Resistance-Rated Glazing: Glazing that prevents spread of fire and smoke and radiant heat; used in rated wall applications 60 minutes and above without size limitations.
- B. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- C. Glass Thicknesses: Indicated by thickness designations in millimeters in accordance with ASTM C1036.

1.4 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.5 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.

- E. Submit an Environmental Product Declaration (EPD) from the manufacturer for glass within this specification section, if available. A statement of the contractor's good faith effort to obtain the EPD shall be provided if not available.
- F. Glass Samples: For each type of glass product; 12 inches square.
- G. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.
- H. Quality Control Submittals:
 - 1. Qualification Data: For Installer.
 - 2. Product Certificates: For each type of glass and glazing product.
 - 3. Sample Warranties: For special warranties.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the NGA's Certified Glass Installer Program.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials in accordance with manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install fire-resistant glazing until spaces are enclosed and weathertight and temporary HVAC system is operating and maintaining ambient temperature conditions at occupancy levels during remainder of construction period.

1.9 WARRANTY

- A. Manufacturer's Special Warranty for Tempered Glazing Units with Clear Intumescent Interlayer: Manufacturer agrees to replace units that deteriorate within specified warranty period. Deterioration of tempered glazing units with clear intumescent interlayer is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning glass contrary to manufacturer's written instructions. Evidence of failure is air bubbles within units, or obstruction of vision by contamination or deterioration of intumescent interlayer.
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations for Glass: For each glass type, obtain from single source from single manufacturer.
- B. Source Limitations for Glazing Accessories: For each product and installation method, obtain from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General: Installed glazing systems shall withstand normal thermal movement and impact loads (where applicable) without failure, including loss or glass breakage attributable to defective manufacture, fabrication, or installation; deterioration of glazing materials; or other defects in construction.

2.3 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organization below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.

- 1. NGA Publications: "Glazing Manual."

2.4 GLASS PRODUCTS

- A. Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class I (clear) unless otherwise indicated, Quality-Q3.
 - 1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.

2.5 FIRE-RESISTANCE-RATED GLAZING

- A. Fire-Resistance-Rated Glazing: Listed and labeled by a testing agency acceptable to authorities having jurisdiction, for fire-resistance ratings indicated, based on testing in accordance with ASTM E119 or UL 263.
- B. Fire-Resistance-Rated Glazing Labeling: Permanently mark fire-resistance-rated glazing with certification label of a testing agency acceptable to authorities having jurisdiction. Label shall indicate manufacturer's name, test standard, that glazing is approved for use in walls, and fire-resistance rating in minutes.
- C. Fire-Resistance-Rated Framing: Fire-resistance-rated glazing with 60-minute ratings requires framing from glass supplier, tested as an assembly complying with ASTM E119 or UL 263.

- D. Fire-Resistance-Rated Tempered Glazing Units with Clear Intumescent Interlayer: Glazing units made from two or more lites of uncoated, fully tempered, clear float glass; with a perimeter edge seal enclosing a cavity filled with optically clear, intumescent polymer; complying with 16 CFR 1201, Category II.

2.6 GLAZING ACCESSORIES

- A. Provide glazing gaskets, glazing sealants, glazing tapes, setting blocks, spacers, edge blocks, and other glazing accessories that are compatible with glazing products and each other and are approved by testing agencies that listed and labeled fire-resistant glazing products with which products are used for applications and fire-protection ratings indicated.
- B. Glazing Sealants for Fire-Rated Glazing Products: Neutral-curing silicone glazing sealant complying with ASTM C920, Type S, Grade NS, Class 50, Use NT. Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated.
 - 1. Colors of Exposed Glazing Sealants: As selected by Director's Representative from manufacturer's full range of industry colors.
- C. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C1281 and AAMA 800 for products indicated below:
 - 1. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.

2.7 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, recommended in writing by manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Perimeter Insulation for Fire-Resistance-Rated Glazing: Product that is approved by testing agency that listed and labeled fire-resistant glazing product with which it is used for application and fire-protection rating indicated.

2.8 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine framing, glazing channels, and stops, with Installer present, for compliance with manufacturing and installation tolerances, including those for size, squareness, and offsets at corners, and for compliance with minimum required face and edge clearances.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
- B. Examine glazing units to locate fire side and protected side. Label or mark units as needed so that fire side and protected side are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

- A. Use methods approved by testing agencies that listed and labeled fire-resistant glazing products.
- B. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials unless more stringent requirements are indicated, including those in referenced glazing publications.
- C. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
- D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- E. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- G. Provide spacers for glass lites where length plus width is larger than 50 inches.
 - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.

2. Provide 1/8-inch minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- H. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and in accordance with requirements in referenced glazing publications.
- I. Set glass lites with proper orientation so that coatings face fire side or protected side as specified.

3.4 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.5 CLEANING AND PROTECTION

- A. Immediately after installation, remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
 1. If, despite such protection, contaminating substances do contact with glass, remove substances immediately as recommended in writing by glass manufacturer.
- C. Remove and replace glass that is damaged during construction period.
- D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

END OF SECTION 088813

SECTION 102233 - ACCORDION FOLDING PARTITIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Structural support beam for the automatic vertically retractable acoustical wall and end-mounted motor assembly.
- C. Ceiling storage pockets along axis of automatic vertically retractable acoustical wall – Section
- D. Bulkheads and sound insulation above, below and in the fixed walls at both ends of the automatic vertically retractable acoustical wall, per ASTM E557.
- E. All the site wiring and connections for main power, including disconnect switches at each motor location. All site wiring and connections for control, including installation of key switches.

1.2 SUMMARY

- A. Section Includes:
 - 1. Electrically operated, automatic vertically retractable acoustical wall.

1.3 ITEMS FURNISHED BUT NOT INSTALLED UNDER THIS SECTION

- A. Remote Control Stations: Deliver the remote control stations to the Electrical Work Contractor for installation.

1.4 DEFINITIONS

- A. NIC: Noise Isolation Class.
- B. NRC: Noise Reduction Coefficient.
- C. STC: Sound Transmission Class.
- D. Automatic Vertically Retractable Acoustical Wall (from here on called Operable Wall):
 - 1. Refers specifically to acoustical operable walls that, when in the down position (closed) are hard, rigid, flat, plumb walls, made of a grid of rectangular acoustical panels, and when are lifted (opened), fold upward (vertically) without the use of any manual labor, in a manner similar to an accordion, into a pocket in the ceiling, between roof joists, or up

- between built in bulkheads. In the down (closed) position, the wall shall be comprised of two vertical planes of acoustical panels, separated by an acoustical air space.
2. The operable wall shall open and close in a manner similar to an accordion, in that all wall panels fold and unfold at the exact same time, at the exact same rate.

E. Standard Drive System:

1. The motor drive assembly is mounted directly above the centerline of the operable wall and located to one end of the wall. Cables from the motor must pass through a port cut into a perpendicular support beam. Support steel is only required at one location. Minimum wall length without modifying the system is 11'-3" (3430mm). A minimum 24" x 48" access panel must be provided in soffit below motor for maintenance access.

1.5 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.6 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
- E. Shop Drawings: For accordion folding partitions.
1. Include plans, elevations, sections, and attachment details depicting layout of operable wall system based on field verified dimensions.
 2. Indicate storage and operating clearances.
 3. Indicate location and installation requirements for hardware and track, blocking, and direction of travel.
 4. Indicate facing-material seam locations if any.
 5. Include diagrams for power, signal, and control wiring.
 - a. Forward copy of approved wiring diagrams to the Electrical Work Contractor for installations of wiring and connections required under the Electrical Work Contract.
- F. Samples for Initial Selection: For each type of exposed material, facing material, and finish indicated.
1. Include similar Samples of accessories involving color selection.
- G. Samples for Verification: For each type of exposed material, facing material, and finish indicated, prepared on Samples of size indicated below:

1. Textile Facing Material: Full width by not less than 36-inch- long section of fabric from dye lot to be used for the Work, with specified treatments applied. Show complete pattern repeat.
 2. Facing Material Other Than Textile: Manufacturer's standard-size unit, not less than 3 inches square.
 3. Edge Material: Not less than full width by 3 inches long.
 4. Hardware: Manufacturer's standard exposed door-operating device.
- H. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:
1. Partition track, track supports, switches, turning space, and storage layout.
 2. Suspended ceiling components.
 3. Structural members to which suspension systems and operating motor will be attached, and structural members with openings that components of operating system must pass-through.
 4. Size and location of initial access modules for acoustical tile.
 5. Items penetrating finished ceiling, including the following:
 - a. Lighting fixtures.
 - b. HVAC ductwork, outlets, and inlets.
 - c. Speakers.
 - d. Sprinklers.
 - e. Smoke detectors.
 - f. Access panels.
- I. Setting Drawings: For embedded items and cutouts required in other work, including support-beam, mounting-hole template.
- J. Qualification Data: For manufacturer and installer.
- K. Product Certificates: For each type of accordion folding partition, from manufacturer.
- L. Sample Warranty: For manufacturer's special warranty.

1.7 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For accordion folding partitions to include in maintenance manuals.
1. Operation and maintenance documentation directory manuals.
 2. Emergency manuals.
 3. Systems and equipment operation manuals.
 4. Systems and equipment maintenance manuals.
 5. Product maintenance manuals.
 6. In addition to items specified above, include the following:
 - a. Facing materials and finishes for exposed trim and accessories. Include precautions for cleaning materials and methods that could be detrimental to finishes and performance.
 - b. Seals, hardware, track, carriers, and other operating components.

- c. Electric operator and controls.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.9 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of accordion folding partitions that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Faulty operation of accordion folding partitions.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal use.
 - 2. Warranty Period: Two years from date of Substantial Completion.
 - 3. Warranty Period for Pantographic Frames, Trolleys, and Tracks: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Acoustical Performance: Provide accordion folding partitions tested by a qualified testing agency for the following acoustical properties, according to test methods indicated:
 - 1. Sound-Transmission Requirements: Accordion folding partition assembly tested in a laboratory for sound-transmission loss performance according to ASTM E90, calculated according to ASTM E413, and rated for not less than the STC value indicated.
- B. Fire-Test-Response Characteristics: Provide partitions with finishes complying with one of the following, as determined by testing identical products by a testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 450 or less.
 - 2. Fire Growth Contribution: Complying with acceptance criteria of local code and authorities having jurisdiction when tested according to NFPA 265 Method B Protocol or NFPA 286.
- C. Fire Resistance: Provide fire-rated accordion folding partitions complying with NFPA 80, based on testing according to UL 10B for fire-rated door assemblies.

- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 ACCORDION FOLDING PARTITION

- A. Accordion Folding Partition: Accordion folding frame with pantograph or hinged sections designed for horizontal extension and retraction, covered with decorative facing material, reinforced for hardware attachment, supported by overhead suspension system, and equipped with manufacturer's standard air-release method to prevent billowing.

- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

- a. Basis-Of-Design: Skyfold Classic 51.

- B. Partition Type: Automatic Vertically Retractable Acoustical Wall with the following hardware:

- 1. Acoustical panels:

- a. Acoustical panels shall be faced with steel that is compatible with a wide variety of architectural finishes such as paint, vinyl, fabric, specialty metals, wood veneer, etc.
 - b. Acoustical panels, together with all of the sound insulation, shall be made of non-combustible or fire-treated materials.
 - c. Acoustical panels shall be fabricated to satisfy the rigid criteria when the operable wall is down (closed) and to ensure that there is no interference between panels when the wall is in motion.
 - d. Acoustical panels shall be architecturally flat with no bowing, oil canning, warping, waviness or any other surface deformation and discontinuity.
 - e. Acoustical panels shall have the finish of the architect's choice, provided that the finish has been approved by the operable wall manufacturer to ensure compatibility with the wall panels. The following criteria must be met:

- 1) Maximum weight of material: 0.111 lbs/ft² (0.542 kg/m²).
 - 2) Maximum thickness of material: 1/8" (3mm).

- 2. Folding Mechanism:

- a. The hanging, folding and extension mechanism shall be made from structural grade aluminum extrusions and structural shapes to achieve the minimum assembled weight.
 - b. All wear surfaces, such as bushings, spacers, pins, discs, bearings, and sleeves shall be designed to function quietly and with minimum wear. Minimum service life expectancy is 10,000 cycles.
 - c. The hangers, which fasten the lifting mechanism to the support steel, shall be fabricated from steel and shall be welded or bolted to the support steel supplied by others.

3. Motor Drive:

- a. The motor drive should be sized to open and close the wall effectively over a 10,000-cycle design life of the wall.
- b. Ball bearings shall be used in the folding mechanism. In no circumstance shall chain or belt drive systems be acceptable.
- c. There shall be a wire rope cable for every set of folding mechanisms. This cable shall be of 6 x 31 construction aircraft cable and shall be made of galvanized steel. The diameter of the cables shall be sized so that they shall be able to hold the entire weight of the wall, with the appropriate safety factor.
- d. The cable wraps on yoyo drums with 2 safety wraps and multiple layers of cable.
- e. The line shaft, sized to deliver the required torque with minimum deflection, shall support and rotate the cable drums.
- f. Flange bearings shall be used for the drive system, located immediately on both sides of the drum assembly.
- g. The motor drive shall be sized to deliver sufficient amount of torque to safely and effectively raise and lower the operable wall over its design life.
- h. The motor drive shall use the latest in industry standards in thermal protection, overload protection, quick acting fuses, etc., in order to ensure the safety and reliability of the system.

4. Safety Equipment:

- a. The operable wall shall employ an electromagnetic type of brake which shall activate firmly, without hesitation, when power is lost to the system. This brake shall have a minimum retarding torque rating equal to 200% of the motor drive's full load torque. The drive system shall be equipped with a manual override and a brake release lever.
- b. The operable wall shall employ a dynamic brake, distinct and separate from the brake in 2.2.4.1, in order to lower the wall at a controlled speed of no more than approximately 150% of the normal down speed, in the case of a catastrophic failure in the motor drive's power train. Alternately, the operable wall shall employ a brake, distinct and separate from the brake in 2.2.4.1, in order to completely halt the downward motion of the wall in the case of a catastrophic failure in the power train.
- c. The operable wall shall employ electrical or other limit switches in order to stop the wall at its up and down travel limits.
- d. The operable wall shall employ an over torque detector in order to sense a jam in the system and to act as an over travel limit in the up direction should the primary limit switch fail to act in 1.3.2.4. This over torque sensor shall be mechanical, using the motor's torque arm in its over torque detection.
- e. The entire length of the bottom edge of the operable wall shall be equipped with a continuous pressure sensing strip which shall cut power to the motor drive and shall activate the brake outlined in 2.2.4.1, if the sensing edge comes in firm contact with an object, before the operable wall is in the full down (closed) position. The operable wall will automatically reverse direction and ascend for approximately 3 seconds to clear the obstruction. The power shall remain cut to the motor drive until the switches have been released. The operation of the operable wall can resume once the obstruction is removed.

5. Electrical:

- a. The operable wall shall be equipped for a three-phase power supply to the electrical control box.
- b. Standard electrical control box will be NEMA 1. NEMA 4 shall be available on request from the manufacturer.
- c. Low voltage wiring (by others). 18-gauge wiring from the switches to the control box.
- d. Switches (standard): Two (2) push button switches wired in series with power controlled by a single, three position key switch. One push button switch shall be equipped with an LED that flashes fault codes in case of an electrical system failure. (Installation and wiring by others).
Touch Screen Operator Stations (optional): Two (2), 4.3" resistive LCD touch screens, wired in series with multilingual capabilities and 4-digit adjustable user pin. The screens will display faults in case of a failure with the electrical system. (wiring by others).

6. Fabrication:

- a. Factory assemble all components, assemblies and systems into the largest possible assemblies in order to minimize the amount of assembly on site.

C. STC: 51.

D. Dimensions: Fabricate partitions to form an assembled system of dimensions indicated on Drawings and verified by field measurements.

E. Facing Material: Plastic laminate.

- 1. Color/Pattern: Match Basis of Design Color: Wilsonart Laminate, 7937 River Cherry.

2.3 COMPONENTS

A. Posts and Seals: Provide types of posts and seals that produce accordion folding partitions complying with performance requirements.

- 1. Posts: Steel or aluminum; formed with deep-nesting and interlocking interfaces and fabricated to ensure rigidity of accordion folding partition.
- 2. Perimeter Seals: Manufacturer's standard vinyl, neoprene, or woven silica vertical seals, horizontal top and bottom seals, and closures for lead posts and jambs.

B. Hardware: Manufacturer's standard manually operated pulls, latches, locks, and bolts as required to operate accordion folding partitions; with decorative, protective finish.

C. Trim: Manufacturer's standard with decorative, protective finish.

D. Tiebacks: As required to maintain accordion folding partitions in stacked position; with manufacturer's standard finish.

2.4 SUSPENSION SYSTEMS

- A. The hangers, which fasten the lifting mechanism to the support steel, shall be fabricated from steel and shall be welded or bolted to the support steel supplied by others.
- B. Carriers: Trolley system as required for size and weight of partition and for easy, quiet operation; with manufacturer's standard ball-bearing carriers at lead post and manufacturer's standard ball-bearing carriers at intermediate partition supports.
 - 1. Wheels: Manufacturer's standard.
- C. Track Switches and Accessories: Manufacturer's standard switches as required for type of operation, storage, track configuration, and layout indicated.
- D. Aluminum Finish: Mill finish or manufacturer's standard, factory-applied, decorative finish unless otherwise indicated.
- E. Steel Finish: Factory-applied, corrosion-resistant, protective coating unless otherwise indicated.

2.5 ELECTRIC OPERATORS

- A. Factory-assembled electric operation system of size and capacity recommended and provided by accordion folding partition manufacturer for partition specified; with electric motor and factory-prewired motor controls, speed reducer, chain drive, remote-control stations, control devices, and accessories required for operation. Include wiring from control stations to motor. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
- B. Comply with NFPA 70.
- C. Motor Electrical Characteristics:
 - 1. Horsepower: Manufacturer's standard.
 - 2. Volts: 115.
 - 3. Phase: Polyphase.
 - 4. Hertz: 60.
- D. Control Equipment: Comply with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6.
- E. Remote-Control Station: For partitions indicated, provide manufacturer's standard key-operated, constant-pressure, three-position control station labeled "Open," "Close," and " Stop." Provide two keys per station.
- F. Obstruction-Detection Device: For partitions indicated, provide automatic safety sensor indicated that causes operator to immediately stop and reverse direction.
 - 1. Sensor Edge: Contact-pressure-sensitive safety edge along partition's leading edge.
- G. Limit Switches: Provide each partition with adjustable switches, interlocked with motor controls and set to automatically stop accordion folding partition at fully extended and fully stacked positions.

- H. Electric Interlock: Provide each partition with safety interlocks to prevent operation of accordion folding partition under the following conditions:
 - 1. On partition, to prevent operation when partition is extended and locked.
 - 2. On storage pocket door, to prevent partition operation if door is not in fully open position.
 - 3. On partitions, at location of convergence by another partition, to prevent operation if merging partitions are in place.
- I. Emergency Release Mechanism: For partitions indicated, provide quick disconnect-release of electric-motor drive system, permitting manual operation in event of operating failure.

2.6 FACING MATERIALS

- A. Provide facing materials with appropriate backing that comply with indicated fire-test-response characteristics, and that are factory attached to accordion folding partitions with concealed fasteners.
 - 1. Factory-apply facing material free of air bubbles, wrinkles, blisters, and other defects; with vertical invisible seams complying with Shop Drawings for location; and with no gaps or overlaps. Tightly secure and conceal raw and selvage edges of facing material for finished appearance. Horizontal butted edges or seams are not permitted.
 - 2. Where facing material with directional, repeating, or matching grain are indicated, mark facing-material top and attach facing material in same direction.
 - 3. Slip match laminate patterns.
- B. Plastic Laminate: High-pressure decorative laminate; NEMA LD 3, Grade HGS.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine flooring, floor levelness, structural support, and opening, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of accordion folding partitions.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with accordion folding partition manufacturer's written installation instructions. Install accordion folding partitions level and plumb, with tight joints and uniform appearance, and free of deformation and surface and finish irregularities.
- B. Install accordion folding partitions and accessories after other finishing operations, including painting, have been completed in area of partition installation.
- C. Broken, cracked, chipped, deformed, or unmatched sections are unacceptable.

- D. Broken, cracked, deformed, or unmatched seals or seals with gaps at butted ends are unacceptable.
- E. Light-Leakage Test: Illuminate one side of partition installation, and observe vertical joints and top and bottom seals for voids. Adjust partitions for alignment and full closure of vertical joints and full closure along top and bottom seals.

3.3 ADJUSTING

- A. Adjust accordion folding partitions to operate smoothly, without warping or binding. Lubricate hardware and other moving parts as recommended by manufacturer.
- B. Electrically Operated Partitions: Adjust electric interlocks to properly control partition operation.
- C. Verify that safety devices are properly functioning.

3.4 DEMONSTRATION

- A. Engage a Company Field Advisor to train Facility's maintenance personnel to adjust, operate, and maintain accordion folding partitions.

END OF SECTION 102233

SECTION 104416 - FIRE EXTINGUISHERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes portable, hand-carried fire extinguishers for fire extinguishers.
- B. Related Requirements:
 - 1. Section 104413 "Fire Protection Cabinets."

1.2 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product. Include rating and classification, material descriptions, dimensions of individual components and profiles, and finishes for fire extinguisher and mounting brackets.
- E. Warranty: Sample of special warranty.

1.3 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For fire extinguishers to include in maintenance manuals.

1.4 COORDINATION

- A. Coordinate type and capacity of fire extinguishers with fire-protection cabinets to ensure fit and function.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers."

- B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.

2.2 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS

- A. Fire Extinguishers: Type, size, capacity for mounting bracket indicated.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Fire End & Croker Corporation.
 - b. MOON American.
 - c. Strike First Corporation of America (The).
 - d. Approved equivalent.
 - 2. Valves: Manufacturer's standard.
 - 3. Handles and Levers: Manufacturer's standard.
 - 4. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B, and bar coding for documenting fire-extinguisher location, inspections, maintenance, and recharging.
- B. Multipurpose Dry-Chemical Type in Steel Container : UL-rated 3-A:40-B:C, 5-lb nominal capacity, with monoammonium phosphate-based dry chemical in enameled-steel container.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine fire extinguishers for proper charging and tagging.
 - 1. Remove and replace damaged, defective, or undercharged fire extinguishers.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install fire extinguishers and mounting brackets in locations indicated and in compliance with requirements of authorities having jurisdiction.

END OF SECTION 104416



SCHEDULE OF SUBMITTALS								
PROJECT NO.: 47477-C								
SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
007213			GENERAL CONDITIONS					
007213	6.1	PD	ARTICLE 6: Designate in writing competent supervision and/or management representatives as required - include contact number in case of an emergency after work hours, including weekends and holidays (see 011000 Summary of Work)	F				
007213	8.1	PD	ARTICLE 8: Permits and licenses	F				
011100			SAFETY					
011100	1.4 A	QCS	Site Specific Safety Plan	RSM				
011100	1.4 B	QCS	Employee Safety Orientation Training and Documentation	D/F				
013300			SUBMITTALS					
013300	1.6	PD	Schedule of Submittals Acknowledgement	F	X			
014339			MOCKUP REQUIREMENTS					
014339	1.2	SD	Mockup Plan: Copy of proposed plan	F				
017329			REMOVALS, CUTTING AND PATCHING					
017329	1.6 A	QCS	Qualification Data: Professional Engineer.	F				
017329	1.6 B	QCS	Schedule of Selective Demolition Activities	F				
017329	1.6 C	QCS	Predemolition Photographs or Video	F				
017716			CONTRACT CLOSEOUT					
017716	1.4	CCS	Project Record Documents	F				
017716	1.5	CCS	Operation and Maintenance	F				
017716	1.6	CCS	Warranties	F				
017716	1.7	CCS	Spare Parts and Maintenance Materials	F				
017900			VIDEO TRAINING PROGRAMS					
017900	1.3 A	CCS	Instruction Program	F				
017900	1.3 B	CCS	Documentation: Attendance Roster, Evaluations	F				
				F				
024115			SITE DEMOLITION					
024115	1.2 G	PD	Pre-demolition Photographs or Video	D				
024115	1.2 D 1	QCS	Permits	D				
024115	1.2 D 2	QCS	Demolition Plan	D				
024115	1.2 E	QCS	Proposed Protection Measures	D				
024115	1.2 F	QCS	Schedule of Site Demolition Activities	D/F				
028213			ASBESTOS ABATEMENT					
028213	2.1	PD	Disposal Bags	D				

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
028213	2.3	PD	Glove Bags	D				
028213	2.4	PD	Negative Air Pressure Units	D				
028213	2.5	PD	Plastic Sheets	D				
028213	2.6	PD	Respirators	D				
028213	2.7	PD	Vacuum Cleaners	D				
028213	1.7 E 1	QCS	Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following: One copy of the completed DOSH-751 and DOSH-465 forms	D				
028213	1.7 E 2	QCS	Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following: One copy of the New York State Department of Labor site specific variance decision.	D				
028213	1.7 F 1	QCS	Notification Compliance Data	D				
028213	1.7 F 2	QCS	Asbestos Removal Company Data	D				
028213	1.7 F 3	QCS	Asbestos Worker Certification Data	D				
028213	1.7 F 4	QCS	Work Plan	D/F				
028213	1.7 F 5	QCS	Waste Transporter Permit	D				
028213	1.7 F 6	QCS	NYS Part 360 Landfill Permit	D				
028213	1.7 F 7	QCS	Negative Air Pressure Equipment	D				
028213	1.7 G	QCS	Asbestos Work Closeout Submittals (waste shipment records and disposal site receipts).	F				
028213	1.7 H 1	CCS	Daily Log	F				
028213	1.7 H 2	CCS	Personal Air Monitoring Data	F				
028304			HANDLING OF LEAD CONTAINING MATERIALS					
028304	1.6 D 1	QCS	Lead Handling Worker's Qualifications Data	D				
028304	1.6 D 2	QCS	Lead Handling Detailed Work Plan	D				
028304	1.6 D 3	QCS	Lead Handling Waste Transporter Permit	D				
028304	1.6 E	QCS	Operation and Maintenance Data	D/F				
028304	1.6 F 1	CCS	Assessment Report compiled by a testing lab	D/F				
028304	1.6 F 2	CCS	Disposal Site Receipts	D/F				
031000			CONCRETE FORMING AND ACCESSORIES					
031000	1.5 E	SD	Exposed vertical concrete walls	D				
031000	1.5 D 1	PD	Exposed Surface Form-Facing Material	D				
031000	1.5 D 2	PD	Concealed Surface Form-Facing Material	D				
031000	1.5 D 3	PD	Pan-Type Forms	D				
031000	1.5 D 4	PD	Form Ties	D				
031000	1.5 D 5	PD	Waterstops	D				
031000	1.5 D 6	PD	Form-Release Agent	D				
031000	1.5 F 1	SAM	Waterstops	D				
031000	1.5 F 2	SAM	Form Liners	D				
031000	1.5 G	QCS	Qualification Data: For testing and inspection agency.	D				
031000	1.5 H	QCS	Research Reports: For insulating concrete forms indicating compliance with International Code Council Acceptance Criteria AC308	D				
031000	1.5 I	QCS	Field quality-control reports	D/F				
031000	1.5 J	QCS	Minutes of preinstallation conference	D/F				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 47477-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
032000			CONCRETE REINFORCING					
032000	1.4 F	SD	Placing drawings that comply with ACI SP-066	D				
032000	1.4 D 1	PD	Each type of steel reinforcement	D				
032000	1.4 D 2	PD	Epoxy repair coating	D				
032000	1.4 D 3	PD	Zinc repair material	D				
032000	1.4 D 4	PD	Bar supports	D				
032000	1.4 F	SD	Placing drawings that comply with ACI SP-066	D				
032000	1.4 G	SD	Construction Joint Layout	D				
032000	1.4 H	SD	Delegated-Design Submittal	D				
032000	1.4 E	EPD	Environmental Product Declaration	D				
032000	1.4 I	QCS	Welding Certificates	D				
032000	1.4 J	QCS	Material Certificates	D				
032000	1.4 K	QCS	Material Test Reports	D				
032000	1.4 L	QCS	Field Quality-Control Reports	D/F				
032000	1.4 M	QCS	Minutes of Preinstallation Conference	D/F				
033000			CAST-IN-PLACE CONCRETE					
033000	1.4 E 1	PD	Mix Design	D				
033000	1.4 E 2	PD	Portland Cement	D				
033000	1.4 E 3	PD	Fly Ash	D				
033000	1.4 E 4	PD	Slag Cement	D				
033000	1.4 E 5	PD	Silica Fume	D				
033000	1.4 E 6	PD	Performance-based hydraulic cement	D				
033000	1.4 E 7	PD	Aggregates	D				
033000	1.4 E 8	PD	Admixtures	D				
033000	1.4 E 9	PD	Vapor Retarders	D				
033000	1.4 E 10	PD	Curing Materials	D				
033000	1.4 E 11	PD	Joint Fillers	D				
033000	1.4 E 12	PD	Repair Materials	D				
033000	1.4 F	EPD	Environmental Product Declaration	D				
033000	1.4 G	PD	Design Mixtures	D				
033000	1.4 H 1	SD	Construction Joint Layout	D				
033000	1.4 I	QCS	Concrete Schedule	D				
033000	1.4 J	QCS	Qualification Data	D				
033000	1.4 K	QCS	Material Certificates	D				
033000	1.4 L	QCS	Material Test Reports	D				
033000	1.4 M	QCS	Research Reports	D				
033000	1.4 N	QCS	Preconstruction test reports	D				
033000	1.4 O	QCS	Field quality-control reports	D/F				
033000	1.4 P	QCS	Minutes of preinstallation conference	D/F				
040110			MASONRY CLEANING					
040110	2.1	PD	Cleaning Materials	D				
040110	2.2	PD	Accessory Materials	D				
040110	2.3	PD	Chemical Cleaning Solutions	D				
040110	1.6 E	QCS	Qualification Data: For chemical-cleaner manufacturer.	D				
040110	1.6 F	QCS	Cleaning Program	D/F				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 47477-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
040120-63			BRICK MASONRY REPAIR					
040120-63	2.2	PD	Masonry Materials	D				
040120-63	2.3	PD	Mortar Materials	D				
040120-63	2.4	PD	Manufactured Repair Materials	D				
040120-63	2.5	PD	Accessory Materials	D				
040120-63	2.6	PD	Mortar Mixes	D				
040120-63	1.6 E 1	SAM	Sand Types Used for Mortar	D				
040120-63	1.6 E 2	SAM	Patching Compound	D				
040120-63	1.6 E 3	SAM	Include similar Samples of accessories involving color selection.	D				
040120-63	1.6 F 1	SAM	Verification - Each type of brick unit to be used for replacing existing units	D				
040120-63	1.6 F 2	SAM	Verification - Each type of patching compound in the form of briquettes, at least 3 inches long by 1-1/2 inches wide	D				
040120-63	1.6 F 3	SAM	Verification - Accessories: Each type of accessory and miscellaneous support.	D				
040120-63	1.7 A	QCS	Qualification Data	D				
042000			UNIT MASONRY					
042000	1.5 E 1	SD	Masonry Units	D				
042000	1.5 E 2	SD	Reinforcing Steel	D				
042000	1.5 E 3	SD	Fabricated Flashing	D				
042000	2.3	PD	Unit Masonry, General	D				
042000	2.4	PD	Concrete Masonry Units	D				
042000	2.5	PD	Masonry Lintels	D				
042000	2.6	PD	Brick	D				
042000	2.7	PD	Mortar and Grout Materials	D				
042000	2.8	PD	Reinforcement	D				
042000	2.9	PD	Ties and Anchors	D				
042000	2.10	PD	Embedded Flashing Materials	D				
042000	2.11	PD	Post Installed Anchors	D				
042000	2.12	PD	Miscellaneous Masonry Accessories	D				
042000	2.13	PD	Masonry-Cell Fill	D				
042000	2.14	PD	Masonry Cleaners	D				
042000	2.15	PD	Mortar and Grout Mixes	D				
042000	1.5 F 1	SAM	Weep Holes/Cavity Vents	D				
042000	1.5 G 1	SAM	Verification - Weep Holes	D				
042000	1.5 G 2	SAM	Verification - Accessories Embedded in Masonry	D				
042000	1.5 H	QCS	Qualification Data: For testing agency.	D				
042000	1.5 I 1	QCS	Material Certificates - Masonry Units	D				
042000	1.5 I 2	QCS	Material Certificates - Integral Water Repellant used in CMUSs.	D				
042000	1.5 I 3	QCS	Material Certificates - Cementitious Materials	D				
042000	1.5 I 4	QCS	Material Certificates - Mortar Admixtures	D				
042000	1.5 I 5	QCS	Material Certificates - Preblended, dry mortar mixes	D				
042000	1.5 I 6	QCS	Material Certificates - Grout Mixes	D				
042000	1.5 I 7	QCS	Material Certificates - Reinforcing Bars	D				
042000	1.5 I 8	QCS	Material Certificates - Joint Reinforcement	D				

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Spec Section	Sub Section	Type	Description	F	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
				F/O				
				D				
				S				
042000	1.5 I 9	QCS	Material Certificates - Anchors, Ties and Metal Accessories	D				
042000	1.5 J	QCS	Mix Designs: For each type of mortar and grout.	D				
042000	1.5 K	QCS	Statement of Compressive Strength of Masonry	D				
042000	1.5 L	QCS	Cold Weather and Hot Weather Procedures	D				
051200			STRUCTURAL STEEL FRAMING					
051200	1.6 G	SD	Full detailed drawings of structural-steel components.	D				
051200	1.6 E 1	PD	Structural-Steel Materials	D				
051200	1.6 E 2	PD	High-Strength, Bolt-Nut Washer Assemblies	D				
051200	1.6 E 3	PD	Shear Stud Connectors	D				
051200	1.6 E 4	PD	Anchor Rods	D				
051200	1.6 E 5	PD	Threaded Rods	D				
051200	1.6 E 6	PD	Forged-steel Hardware	D				
051200	1.6 E 7	PD	Slide Bearings	D				
051200	1.6 E 8	PD	Prefabricated Building Columns	D				
051200	1.6 E 9	PD	Shop Primer	D				
051200	1.6 E 10	PD	Galvanized-steel Primer	D				
051200	1.6 E 11	PD	Etching Cleaner	D				
051200	1.6 E 12	PD	Galvanized Repair Paint	D				
051200	1.6 E 13	PD	Shrinkage-resistant Grout	D				
051200	1.6 F	EPD	Environmental Product Declaration	D				
051200	1.6 H	QCS	Welding Procedure Specifications (WPSs) and Procedure Qualification Records (PQRs)	D				
051200	1.6 I	QCS	Material Data	D				
051200	1.6 J	QCS	Delegated-Design Submittal	D				
051200	1.6 K	QCS	Qualification Data	D				
051200	1.6 L	QCS	Welding Certificates	D				
051200	1.6 M	QCS	Paint Compatibility Certificates	D				
051200	1.6 N	QCS	Mill Test Reports for Structural-Steel Materials, including chemical and physical properties.	D				
051200	1.6 O 1	QCS	Product Test Reports - Bolts, nuts, and washers, including mechanical properties and chemical analysis.	D				
051200	1.6 O 2	QCS	Product Test Reports - Direct-tension indicators.	D				
051200	1.6 O 3	QCS	Product Test Reports - Tension-control, high-strength, bolt-nut-washer assemblies.	D				
051200	1.6 O 4	QCS	Product Test Reports - Shear stud connectors.	D				
051200	1.6 P	QCS	Survey of Existing Conditions	D/F				
051200	1.6 Q	QCS	Source Quality-Control Reports	D/F				
051200	1.6 R	QCS	Field Quality-Control Reports	K				
053100			STEEL DECKING					
053100	1.3 G	SD	Include layout and types of deck panels, anchorage details, reinforcing channels, pans, cut deck openings, special jointing, accessories, and attachments to other construction.	D				
053100	1.3 E 1	PD	Roof Deck	D				
053100	1.3 E 2	PD	Composite Floor Deck	D				

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				F/O				
				D				
				S				
053100	1.3 E 3	PD	Noncomposite Form Deck	D				
053100	1.3 F	EPD	Environmental Product Declaration	D				
053100	1.3 H	QCS	Welding Certificates	D				
053100	1.3 I	QCS	Product Certificates: For each type of steel deck	D				
053100	1.3 J 1	QCS	Product Test Reports - Power-Actuated Mechanical Fasteners	D				
053100	1.3 J 2	QCS	Product Test Reports - Screw Fasteners	D				
053100	1.3 K	QCS	Research Reports: For steel deck, from UNIFORM CODE-ES.	D				
053100	1.3 L	QCS	Source Quality-Control Reports	D				
053100	1.3 M	QCS	Field Quality-Control Reports	F				
054000			COLD-FORMED METAL FRAMING					
054000	1.3 F	SD	Full detailed drawings of cold-formed steel framing.	D				
054000	1.3 D 1	PD	Cold-Formed Steel Framing Materials	D				
054000	1.3 D 2	PD	Load-Bearing Wall Framing	D				
054000	1.2 D 3	PD	Exterior Non-Load-Bearing Wall Framing	D				
054000	1.3 D 4	PD	Interior Non-Load-Bearing Wall Framing	D				
054000	1.3 D 5	PD	Vertical Deflection Clips	D				
054000	1.3 D 6	PD	Connection Components	D				
054000	1.3 D 7	PD	Single Deflection Track	D				
054000	1.3 D 8	PD	Ceiling Joist Framing	D				
054000	1.3 D 9	PD	Soffit Framing	D				
054000	1.3 D 10	PD	Self-Drilling Screw Fasteners	D				
054000	1.3 D 11	PD	Sill Seater Gasket	D				
054000	1.3 E	EPD	Environmental Product Declaration	D				
054000	1.3 G	QCS	Qualification Data: For testing agency	D				
054000	1.3 H	QCS	Welding Certificates	D				
054000	1.3 I	QCS	Product Certificates: For each type of code-compliance certification for studs and tracks.	D				
054000	1.3 J 1	QCS	Product Test Reports - Steel Sheet	D				
054000	1.3 J 2	QCS	Product Test Reports - Expansion Anchors	D				
054000	1.3 J 3	QCS	Product Test Reports - Power-Actuated Anchors	D				
054000	1.3 J 4	QCS	Product Test Reports - Mechanical Fasteners	D				
054000	1.3 J 7	QCS	Product Test Reports - Miscellaneous Structural Clips and Accessories.	D				
054000	1.3 K	QCS	Research Reports - Nonstandard cold-formed steel framing	D				
054000	1.3 L	QCS	Source Quality-Control Reports	D				
				D				
055000			METAL FABRICATIONS					
055000	1.3 F	SD	Full detailed drawings of metal fabrications.	D				
055000	1.3 D 1	PD	Fasteners	D				
055000	1.3 D 2	PD	Shop Primers	D				
055000	1.3 D 3	PD	Shrinkage-Resisting Grout	D				
055000	1.3 D 4	PD	Manufactured Metal Ladders	D				
055000	1.3 D 5	PD	Metal Bollards	D				
055000	1.3 D 6	PD	Floor Grating	D				
055000	1.3 D 7	PD	Metal Downspout Boots	D				

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055000	1.3 E	EPD	Environmental Product Declaration	D				
055000	1.3 G	QCS	Qualification Data	D				
055000	1.3 H	QCS	Mill Certificates: Signed by stainless steel manufacturers, certifying that products furnished comply with requirements.	D				
055000	1.3 I	QCS	Welding Certificates	D				
055000	1.3 J	QCS	Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.	D				
055000	1.3 K	QCS	Research Reports: For post-installed anchors.	D				
055000	1.3 L	QCS	Source Quality-Control Reports	D				
055113			METAL PAN STAIRS					
055113	1.4 E	SD	Full detailed drawings of work and welding procedure specifications (WPS).	D				
055113	1.4 D 1	PD	Perforated Metal	D				
055113	1.4 D 2	PD	Abrasive Nosings	D				
055113	1.4 D 3	PD	Shop Primer Products	D				
055113	1.4 D 4	PD	Abrasive-coating Finish to Formed-metal Stairs	D				
055113	1.4 D 5	PD	Handrail Wall Brackets	D				
055113	1.4 D 6	PD	Grout	D				
055113	1.4 F	QCS	Welding Certificates	D				
055113	1.4 G	QCS	Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers.	D				
055113	1.4 H	QCS	Source Quality-Control Reports	D				
055213			PIPE AND TUBE RAILINGS					
055213	1.4 E	SD	Include plans, elevations, sections, details, attachments to other work, and welding procedure specifications (WPS).	D				
055213	1.4 D 1	PD	Manufacturer's Product Lines of Mechanically Connected Railings	D				
055213	1.4 D 2	PD	Expanded Metal Infill Panels	D				
055213	1.4 D 3	PD	Perforated Metal Infill Panels	D				
055213	1.4 D 4	PD	Woven-wire Mesh Infill Panels	D				
055213	1.4 D 5	PD	Fasteners	D				
055213	1.4 D 6	PD	Post-installed Anchors	D				
055213	1.4 D 7	PD	Handrail Brackets	D				
055213	1.4 D 8	PD	Shop Primer	D				
055213	1.4 D 9	PD	Intermediate Coats and Topcoats	D				
055213	1.4 D 10	PD	Bituminous Paint	D				
055213	1.4 D 11	PD	Nonshrink, Nonmetallic Grout	D				
055213	1.4 D 12	PD	Anchoring Cement	D				
055213	1.4 D 13	PD	Metal Finishes	D				
055213	1.4 D 14	PD	Paint Products	D				
055213	1.4 G 1	SAM	Verification - Sections of each distinctly different linear railing member, including handrails, top rails, posts, and balusters, including finish.	D				
055213	1.4 G 2	SAM	Verification - Fittings and Brackets	D				

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				F/O				
				D				
				S				
055213	1.4 G 3	SAM	Verification - Assembled Sample of Railing System	D				
055213	1.4 H	QCS	Delegated-Design Submittal	D				
055213	1.4 I	QCS	Qualification Data	D				
055213	1.4 J	QCS	Welding Certificates	D				
055213	1.4 K	QCS	Mill Certificates: Signed by manufacturers of stainless steel products.	D				
055213	1.4 L	QCS	Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers.	D				
055213	1.4 M	QCS	Product Test Reports: For tests on railings performed by a qualified testing agency, in accordance with ASTM E894 and ASTM E935.	D				
055213	1.4 N	QCS	Research Reports: For post-installed anchors, from UNIFORM CODE-ES or other qualified testing agency acceptable to authorities having jurisdiction.	D				
055213	1.4 O	QCS	Source Quality-Control Reports	D				
061000			ROUGH CARPENTRY					
061000	2.1	PD	Wood Products, General	D				
061000	2.2	PD	Fire-Retardant-Treated Materials	D				
061000	2.3	PD	Miscellaneous Lumber	D				
061000	2.4	PD	Plywood Backing Panels	D				
061000	2.5	PD	Fasteners	D				
061000	2.6	PD	Metal Framing Anchors	D				
061000	1.4 E 1	QCS	Evaluation Reports - Fire-retardant-treated Wood	D				
061000	1.4 E 2	QCS	Evaluation Reports - Power-driven Fasteners	D				
061000	1.4 E 3	QCS	Evaluation Reports - Metal Framing Anchors	D				
061600			SHEATHING					
061600	2.2	PD	Wood Panel Products	D				
061600	2.3	PD	Preservative-Treated Plywood	D				
061600	2.4	PD	Fire-Retardant-Treated Plywood	D				
061600	2.5	PD	Wall Sheathing	D				
061600	2.6	PD	Parapet Sheathing	D				
061600	2.7	PD	Fasteners	D				
061600	2.8	PD	Sheathing Joint-and-Penetration Treatment Materials	D				
061600	1.4 A	QCS	Products Certificates: From air-barrier and water-resistant glass-mat gypsum sheathing manufacturer.	D				
061600	1.4 B	QCS	Product Test Reports: For each air-barrier and water-resistant glass-mat gypsum sheathing assembly.	D				
064219			PLASTIC-LAMINATE-FACED WOOD PANELING					

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				F/O				
				D				
				S				
064219	1.6 E	SD	Full detailed drawings of flush wood paneling and apply AWI Quality Certification Program labeling.	D				
064219	2.1	PD	Paneling, General	D				
064219	2.2	PD	Plastic-Laminate-Faced Wood Paneling	D				
064219	2.3	PD	Materials	D				
064219	2.4	PD	Fire-Retardant-Treated Materials	D				
064219	2.5	PD	Installation Materials	D				
064219	1.6 F	SAM	For each exposed product and for each color and texture specified, in manufacturer's or fabricator's standard size.	D				
064219	1.6 G	SAM	For each type of plastic laminate.	D				
064219	1.6 H	SAM	Verification - For each type of exposed laminate.	D				
064219	1.6 I	QCS	Product Certificates: For each type of product.	D				
064219	1.6 J	QCS	Evaluation Reports: For fire-retardant-treated materials, from the Uniform Code.	D				
064219	1.7 A	QCS	Qualification Data: Fabricator Qualifications	D				
064219	1.7 B	QCS	Qualification Data: For Installer	D				
066000			SOLID PLASTIC FABRICATIONS					
066000	1.1 B	SD	Show fabrication details and connection to adjacent Work	D				
066000	2.2 A	PD	Solid Plastic Panels	D				
066000	1.1 D 1	SAM	Solid Plastic Panels	D				
066400	1.1 D 1 a	SAM	Color Samples	D				
066400	1.1 E 1	QCS	Fabricator's and Installer's Qualification Data	D				
066400	1.1 F 1	CCS	Maintenance Data: Deliver 2 copies, covering the installed products, to the Director's Representative	D				
070150			MODIFICATIONS TO EXISTING WARRANTIED ROOF SYSTEM					
070150	1.4 E	PACK	Submit the product data and quality control submittals specified below at the same time in one complete package	D				
070150	1.4 F 1	PD	Membrane manufacturer's installation instructions and details for the Work of this Section	D				
070150	1.4 F 2	PD	All materials required for the the Work of this Section	D				
070150	1.4 G 1	QCS	Applicator's Certification	D				
070150	1.4 G 2	QCS	Material Certification	D				
070150	1.4 G 3	QCS	Warranty Certification	D				
072100			THERMAL INSULATION					
072100	1.3 D 1	PD	Polyisocyanurate foam-plastic board insulation	D				
072100	1.3 D 2	PD	Mineral-wool blanket insulation	D				
072100	1.3 D 3	PD	Mineral-fiber blanket insulation	D				
072100	1.3 D 4	PD	Spray-foam insulation	D				
072100	1.3 E 1	SAM	Blanket, Batt or Roll	D				
072100	1.3 E 2	SAM	Rigid Type	D				

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072100	1.3 F	QCS	Product Test Reports: For each product, for tests performed by a qualified testing agency.	D				
072100	1.3 G	QCS	Research Reports: For foam-plastic insulation, from UNIFORM CODE-ES.	D				
072500			WEATHER BARRIERS					
072500	1.3 E	SD	Show details of building paper wrap at terminations, openings, and penetrations. Show details of flexible flashing applications.	D				
072500	2.1	PD	Water-Resistive Barrier	D				
072500	2.2	PD	Flexible Flashing	D				
072600			VAPOR RETARDERS					
072600	2.1 B	PD	Sheet Retarder	D				
072600	2.2 B	PD	Vapor Barrier Fasteners	D				
072600	2.2 C	PD	Vapor-Retarder Tape	D				
072600	2.2 D	PD	Sealant	D				
072600	1.4 E 1	SAM	Vapor Barrier Material	D				
072600	1.4 E 2	SAM	Pressure-Sensitive Tape	D				
072600	1.4 F	QCS	Product Test Reports: For each product, for tests performed by a qualified testing agency.	D				
072700			AIR BARRIERS					
072700	2.1	PD	Air Barriers	D				
072700	2.3	PD	Components	D				
072700	2.4	PD	Accessories	D				
072700	1.6 D	QCS	Design Calculations	D				
072700	1.6 E	QCS	Manufacturer's Installation Instructions	D				
074213-19			INSULATED METAL WALL PANELS					
074213-19	1.3 E	SD	Full detailed drawings of metal panels.	D				
074213-19	2.2	PD	Foamed-Insulation-Core Metal Wall Panels	D				
074213-19	2.3	PD	Miscellaneous Materials	D				
074213-19	2.5	PD	Finishes	D				
074213-19	1.3 F	SAM	For each type of metal panel indicated with factory-applied color finishes.	D				
074213-19	1.3 G	SAM	Verification - For each type of exposed finish.	D				
074213-19	1.3 H 1	QCS	Qualification Data: For Installer.	D				
074213-19	1.3 H 2	QCS	Product Test Reports: For each product, tests performed by a qualified testing agency.	D				
074213-19	1.3 H 3	QCS	Field Quality-Control Reports.	D				
074213-19	1.3 H 4	QCS	Sample Warranties: For special warranties.	D				
074213-19	1.3 I	CCS	Maintenance Data: For metal panels to include in maintenance manuals.	F				
075323			ETHYLENE-PROPYLENE-DIENE-MONOMER (EDPM) ROOFING					
075323	1.4 E	PACK	Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package.	D				
075323	1.4 L	SD	Full detailed drawings of roofing.	D				

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				F/O				
				D				
				S				
075323	2.2	PD	System Description	D				
075323	2.3	PD	Ethylene-Propylene-Diene-Terpolymer (EPDM) Roofing	D				
075323	2.4	PD	Auxiliary Roofing Materials	D				
075323	2.5	PD	Substrate Boards	D				
075323	2.6	PD	Vapor Retarder	D				
075323	2.7	PD	Roof Insulation	D				
075323	2.8	PD	Insulation Accessories	D				
075323	2.9	PD	Hot Stack Flashing	D				
075323	2.1	PD	Walkways	D				
075323	1.4 M 1	SAM	Roof membrane and flashings of color required	D				
075323	1.4 M 2	SAM	EPDM Cover Tape	D				
075323	1.4 M 3	SAM	Inseam Tape	D				
075323	1.4 M 4	SAM	Insulation	D				
075323	1.4 M 5	SAM	Substrate Board	D				
075323	1.4 M 6	SAM	Walkway pads or rolls, of color required	D				
075323	1.4 M 7	SAM	Torch-Applied Vapor Retarder	D				
075323	1.4 J	PD	Letter of Assembly	D				
075323	1.4 N 1	QCS	Wind Uplift Resistance	D				
075323	1.4 N 2	QCS	Fire Hazard Certification	D				
075323	1.4 M 3	QCS	Qualification Data: For Installer and manufacturer.	D				
075323	1.4 M 4	QCS	Material Certificates	D				
075323	1.4 M 5	QCS	Product Test Reports	D				
075323	1.4 M 6	QCS	Evaluation Reports	D				
075323	1.4 M 7	QCS	Field Test Reports	D/F				
075323	1.4 M 8	QCS	Field Quality-Control Reports	D/F				
075323	1.4 O 1	CCS	Sample Warranties: For manufacturer's special warranties.	F				
075323	1.5 A	CCS	Maintenance Data: For roofing system to include in maintenance manuals.	F				
075323	1.5 A	CCS	Maintenance Materials Submittals	F				
076200			SHEET METAL FLASHING AND TRIM					
076200	1.5 E	SD	Full detailed drawings for sheet metal flashing and trim.	D				
076200	2.2	PD	Sheet Metals	D				
076200	2.3	PD	Miscellaneous Materials	D				
076200	2.3 I	PD	Manufacturer's Installation Instructions	D				
076200	1.5 F 1	SAM	Sheet Metal Flashing	D				
076200	1.5 F 2	SAM	Trim, Metal Closures, Expansion Joints, Joint Intersections, and Miscellaneous Fabrications	D				
076200	1.5 F 3	SAM	Unit-Type Accessories and Miscellaneous Materials	D				
076200	1.5 F 4	SAM	Kynar Coated Aluminum Samples	D				
076200	1.5 G	QCS	Qualification Data: For fabricator.	D				
076200	1.5 I	QCS	Manufacturer's Installation Instructions	D				
076200	1.10	CCS	Special Warranty	F				
076200	1.6 A	CCS	Maintenance Data	F				
077200			ROOF ACCESSORIES					

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077200	1.4 E	SD	Full detailed drawings for roof accessories.	D				
	2.2	PD	Ballasted Fall Protection Rail System	D				
077200	2.3	PD	Pre-Manufactured Plumbing Vent Flashings	D				
077200	2.4	PD	Plumbing Vent Pipe Extensions	D				
077200	2.5	PD	Pipe Chase Housing	D				
077200	2.6	PD	Pipe/Conduit Supports	D				
077200	2.7	PD	Sleeper Equipment Supports	D				
077200	2.8	PD	Metal Roof Drains	D				
077200	2.9	PD	Fixed Access Ladder / Stair	D				
077200	2.10	PD	Grease Guards	D				
077200	1.4 F 1	CCS	Operation and Maintenance Data	F				
078413			PENETRATION FIRESTOPPING					
078413	1.6 D	PACK	Submit the Product Data, Samples, Quality Control Submittals and Firestop Schedule at the same time as a package.	D				
078413	2.2	PD	Penetration Firestopping Systems	D				
078413	2.3	PD	Fill Materials	D				
078413	2.4	PD	Mixing	D				
078413	1.6 F	QCS	Product Schedule	D				
078413	1.6 G 1	QCS	Design Data	D				
078413	1.6 G 2	QCS	Installer's Qualifications Data	D				
078413	1.6 G 3	QCS	Company Field Advisor Data	D				
078413	1.6 H	QCS	Firestop Schedule	D				
078413	1.6 I	QCS	Product Test Reports	D				
078413	1.6 J	CCS	Installer Certificates	F				
078443			JOINT FIRESTOPPING					
078443	2.2	PD	Joint Firestopping Systems	D				
078443	1.4 E	QCS	Product Schedule	D				
078443	1.4 F	QCS	Qualification Data: For Installer.	D				
078443	1.4 G	QCS	Product Test Reports	D				
078443	1.5 A	CCS	Installer Certificates	F				
079200			JOINT SEALANTS					
079200	2.2	PD	Silicone Joint Sealants	D				
079200	2.3	PD	Mildew-Resistant Joint Sealants	D				
079200	2.4	PD	Butyl Joint Sealants	D				
079200	2.5	PD	Latex Joint Sealants	D				
079200	2.6	PD	Preformed, Foam Joint Seals	D				
079200	2.7	PD	Flame and Smoke Resistant Intumescent Sealants	D				
079200	1.3 F 1	SAM	Sealants	D				
079200	1.3 F 2	SAM	Joint Fillers	D				
079200	1.3 F 3	SAM	Joint Primer/Sealer/Conditions	D				
079200	1.3 F 4	SAM	Backer Rods	D				
079200	1.3 F 5	SAM	Bond Breaker Tape	D				

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
079200	1.3 G	SAM	Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.	D				
079200	1.3 H	SAM	Verification - For each kind and color of joint sealant required.	D				
079200	1.3 E 1	QCS	Installer's Qualifications Data	D				
079200	1.3 E 2	QCS	Qualification Data: Company Field Advisor Data	D				
079200	1.4 B 1	QCS	Testing Agency Qualifications	D				
079200	1.3 J	QCS	Sample Warranties	D				
081113			HOLLOW METAL DOORS AND FRAMES					
081113	1.5 E	SD	Full detailed drawings that indicate exact position of access door units and any special installation conditions.	D				
081113	2.2	PD	Interior Standard Steel Doors and Frames	D				
081113	2.3	PD	Exterior Standard Steel Doors and Frames	D				
081113	2.4	PD	Borrowed Lites	D				
081113	2.5	PD	Hollow Metal Panels	D				
081113	2.6	PD	Frame Anchors	D				
081113	2.7	PD	Materials	D				
081113	2.8	PD	Fabrication	D				
081113	2.9	PD	Steel finishes	D				
081113	2.10	PD	Louvers	D				
081113	1.5 F	SAM	Initial Selection: For hollow-metal doors and frames with factory-applied color finishes.	D				
081113	1.5 G	SAM	Verification: Finishes: For each type of exposed finish required, prepared on Samples of not less than 3 by 5 inches.	D				
081113	1.5 H	QCS	Product Schedule	D				
081113	1.5 I	QCS	Product Test Reports	D				
081113	1.5 J	QCS	Field quality control reports	D				
081113	1.6 A	CCS	Record Documents	F				
083313			COILING COUNTER DOORS					
083313	1.2 E	SD	Full detailed drawings for each installation and for special components not dimensioned or detailed in manufacturer's product data.	D				
083313	2.2	PD	Counter Door Assembly	D				
083313	2.3	PD	Door Curtain Materials and Fabrication	D				
083313	2.4	PD	Hoods	D				
083313	2.5	PD	Locking Devices	D				
083313	2.6	PD	Curtain Accessories	D				
083313	2.7	PD	Counterbalance Mechanism	D				
083313	2.8	PD	Manual Door Operators	D				
083313	2.9	PD	General Finish Requirements	D				
083313	2.10	PD	Steel and Galvanized-Steel Finishes	D				
083313	1.2 F	SAM	Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.	D				
083313	1.2 G	QCS	Maintenance Data	D				

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083313	1.2 H	CCS	Installer Qualification Data	F				
083323			OVERHEAD COILING DOORS					
083323	1.2 E	SD	Full detailed drawings for each installation and for special components not dimensioned or detailed in manufacturer's product data.	D				
083323	2.3	PD	Door Assembly	D				
083323	2.5 A	PD	Door Curtains	D				
083323	2.5 B	PD	Curtain Jamb Guides	D				
083323	2.6	PD	Hoods	D				
083323	2.7	PD	Locking Devices	D				
083323	2.8	PD	Curtain Accessories	D				
083323	2.9	PD	Counterbalance Mechanism	D				
083323	2.10	PD	Electric Door Operators	D				
083323	2.11	PD	General Finish Requirements	D				
083323	2.12	PD	Steel and Galvanized-Steel Finishes	D				
083323	1.2 F	SAM	Initial Selection: Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.	D				
083323	1.2 G 1	QCS	Qualification Data: For Installer	D				
083323	1.2 G 2	QCS	Sample Warranty	D				
083323	1.2 H 1	CCS	Replacement Parts List	F				
083323	1.2 H 2	CCS	Special Warranty	F				
083323	1.2 H 3	CCS	Maintenance Data	F				
083323	1.3 A	CCS	Installer Qualification Data	F				
084113			ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS					
084113	1.3 E	SD	Full detailed drawings for aluminum-framed entrances and storefronts.	D				
084113	2.3	PD	Storefront Systems	D				
084113	2.4	PD	Entrance Door Systems	D				
084113	2.5	PD	Entrance Door Hardware	D				
084113	2.6	PD	Glazing	D				
084113	2.7	PD	Materials	D				
084113	2.8	PD	Accessories	D				
084113	1.3 F	SAM	Initial Selection: For units with factory-applied color finishes.	D				
084113	1.3 G	SAM	Verification - For each type of exposed finish required.	D				
084113	1.3 H 1	SAM	Fabrication - Joinery	D				
084113	1.3 H 2	SAM	Fabrication - Anchorage	D				
084113	1.3 H 3	SAM	Fabrication - Expansion Provisions	D				
084113	1.3 H 4	SAM	Fabrication - Glazing	D				
084113	1.3 H 5	SAM	Fabrication - Flashing and Drainage	D				
084113	1.3 I	QCS	Entrance Door Hardware Schedule	D				
084113	1.4 A	QCS	Qualification Data: For Installer	D				
084113	1.3 J 1	QCS	Energy Performance Certificates	D				
084113	1.3 J 2	QCS	Source Quality-Control Reports	D				
084113	1.3 J 3	QCS	Sample Warranties	D				
084113	1.3 K	CCS	Maintenance Data	F				

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084413			GLAZED ALUMINUM CURTAIN WALLS					
084413	1.2 G	SD	Full detailed drawings for glazed aluminum curtain walls.	D				
084413	2.3	PD	Glazed Aluminum Curtain Wall Systems	D				
084413	2.4	PD	Glazing	D				
084413	2.5	PD	Materials	D				
084413	2.6	PD	Accessories	D				
084413	1.2 H	SAM	Initial Selection: For units with factory-applied color finishes.	D				
084413	1.2 I	SAM	Verification - For each type of exposed finish required.	D				
084413	1.2 J 1	SAM	Fabrication - Joinery	D				
084413	1.2 J 2	SAM	Fabrication - Anchorage	D				
084413	1.2 J 3	SAM	Fabrication - Expansion Provisions	D				
084413	1.2 J 4	SAM	Fabrication - Glazing	D				
084413	1.2 J 5	SAM	Fabrication - Flashing and Drainage	D				
084413	1.2 E 1	QCS	Qualification Data: For Installer	D				
084413	1.2 E 2	QCS	Energy Performance Certificates	D				
084413	1.2 E 3	QCS	Product Test Reports	D				
084413	1.2 E 4	QCS	Source Quality-Control Reports	D				
084413	1.2 E 5	QCS	Field Quality-Control Reports	D				
084413	1.2 E 6	QCS	Sample Warranties	D				
084413	1.4 B	QCS	Preconstruction Laboratory Mockup Testing	D				
084413	1.2 K 1	CCS	Maintenance Data	F				
085113			ALUMINUM WINDOWS					
085113	1.2 E	SD	Full detailed drawings for aluminum windows.	D				
085113	2.3	PD	Aluminum Windows	D				
085113	2.4	PD	Accessories	D				
085113	1.2 F 1	SAM	Corner section for each type of window unit and for each color specified.	D				
085113	1.2 F 2	SAM	Manufacturer's standard color finishes for selection	D				
085113	1.2 G	QCS	Product Schedule	D				
085113	1.2 H 1	QCS	Qualification Data: For manufacturer and Installer.	D				
085113	1.2 H 2	QCS	Product Test Reports	D				
085113	1.2 H 3	QCS	Sample Warranties	D				
087100			DOOR HARDWARE					
087100	1.6 E	SD	Full detailed drawings including diagrams for power, signal, and control wiring; and details of interface of electrified door hardware and building safety and security systems.	D				
087100	1.6 F	SAM	For each exposed product in each finish specified, in manufacturer's standard size.	D				
087100	1.6 G	SAM	Initial Selection: For each type of exposed finish	D				
087100	1.6 H	SAM	Verification: For each type of exposed product, in each finish specified.	D				
087100	2.3	PD	Hinges	D				

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				F/O				
				D				
				S				
087100	2.4	PD	Self-Closing Hinges And Pivots	D				
087100	2.5	PD	Center-Hung And Offset Pivots	D				
087100	2.6	PD	Continuous Hinges	D				
087100	2.7	PD	Concealed Hinges	D				
087100	2.8	PD	Mechanical Locks And Latches	D				
087100	2.9	PD	Auxiliary Locks	D				
087100	2.10	PD	Electric Strikes	D				
087100	2.11	PD	Electromagnetic Locks	D				
087100	2.12	PD	Electromechanical Locks	D				
087100	2.13	PD	Exit Locks and Exit alarms	D				
087100	2.14	PD	Surface Bolts	D				
087100	2.15	PD	Manual Flush Bolts	D				
087100	2.16	PD	Automatic and Self-Latching Flush Bolts	D				
087100	2.17	PD	Exit Devices and Auxiliary Items	D				
087100	2.18	PD	Lock Cylinders	D				
087100	2.19	PD	Keying	D				
087100	2.20	PD	Key Control System	D				
087100	2.21	PD	Operating Trim	D				
087100	2.22	PD	Accessories for Pairs of Doors	D				
087100	2.23	PD	Surface Closers	D				
087100	2.24	PD	Concealed Closers	D				
087100	2.25	PD	Closer Holder Release Devices	D				
087100	2.26	PD	Mechanical Stops and Holders	D				
087100	2.27	PD	Electromagnetic Stops and Holders	D				
087100	2.28	PD	Overhead Stops and Holders	D				
087100	2.29	PD	Door Gasketing	D				
087100	2.30	PD	Thresholds	D				
087100	2.31	PD	Sliding Door Hardware	D				
087100	2.32	PD	Folding Door Hardware	D				
087100	2.33	PD	Metal Protective Trim Units	D				
087100	2.34	PD	Auxiliary Door Hardware	D				
087100	2.35	PD	Auxiliary Electrified Door Hardware	D				
087100	1.6 I	QCS	Door Hardware Schedule	D				
087100	1.6 J	QCS	Keying Schedule	D				
087100	1.6 K	QCS	Qualification Data: For Installer and Architectural Hardware Consultant	D				
087100	1.6 L	QCS	Product Certificates	D				
087100	1.6 M	QCS	Product Test Reports	D				
087100	1.6 N	QCS	Field quality-control reports.	D				
087100	1.6 O	QCS	Sample Warranty	D				
087100	1.7 A	CCS	Maintenance Data	F				
087100	1.7 B	CCS	Schedules	F				
087100	1.8 A 1	CCS	Door Hardware: Provide 2 of each type of hardware for future use	F				
087100	1.8 A 2	CCS	Electrical Parts: Provide 1 of each type of electrical item for future use	F				
088000			GLAZING					
088000	2.3	PD	Glass Products, General	D				
088000	2.4	PD	Glass Products	D				

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				F/O				
				D				
				S				
088000	2.5	PD	Insulating Glass	D				
088000	2.6	PD	Glazing Sealants	D				
088000	2.7	PD	Miscellaneous Glazing Materials	D				
088000	1.5 E	EPD	Environmental Product Declaration	D				
088000	1.5 F 1	SAM	Insulating glass	D				
088000	1.5 F 2	SAM	Clear Ceramic glass	D				
088000	1.5 F 3	SAM	Spandrel glass.	D				
088000	1.5 G	SAM	For sealants and colored spacers, in 12-inch lengths. Install sealant Samples between two strips of material representative in color of adjoining framing system.	D				
088000	1.5 H	QCS	Glazing Schedule	D				
088000	1.5 I 1	QCS	Product Certificates	D				
088000	1.5 I 2	QCS	Preconstruction adhesion and compatibility test report	D				
088000	1.5 I 3	QCS	Sample Warranties	D				
088000	1.6 A	QCS	Fabricated-Glass Manufacturer Qualifications	D				
088000	1.6 B	QCS	Installer Qualifications	D				
088300			MIRRORS					
088300	1.2 E	SD	Include mirror elevations, edge details, mirror hardware, and attachment details.	D				
088300	2.2	PD	Silvered Flat Glass Mirrors	D				
088300	2.3	PD	Miscellaneous Materials	D				
088300	2.4	PD	Mirror Hardware	D				
088300	2.5	PD	Fabrication	D				
088300	1.2 F 1	SAM	Mirrors	D				
088300	1.2 F 2	SAM	Mirror Clips	D				
088300	1.2 F 3	SAM	Mirror Trim	D				
088300	1.2 G 1	QCS	Qualification Data: For Installer.	D				
088300	1.2 G 2	QCS	Product Certificates	D				
088300	1.2 G 3	QCS	Sample Warranty	D				
088300	1.2 H	CCS	Maintenance Data	F				
088813			FIRE-RATED GLAZING					
088813	2.3	PD	Glass Products, General	D				
088813	2.4	PD	Glass Products	D				
088813	2.5	PD	Fire-Resistance-Rated Glazing	D				
088813	2.6	PD	Glazing Accessories	D				
088813	2.7	PD	Miscellaneous Glazing Materials	D				
088813	1.5 E	EPD	Environmental Product Declaration	D				
088813	1.5 F	SAM	For each type of glass product; 12 inches square	D				
088813	1.5 G	QCS	Glazing Schedule	D				
088813	1.5 H 1	QCS	Qualification Data: For Installer	D				
088813	1.5 H 2	QCS	Product Certificates	D				
088813	1.5 H 3	QCS	Sample Warranties	D				
089119			FIXED LOUVERS					
089119	1.3 E	SD	Full detailed drawings for louvers and accessories.	D				

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089119	2.3	PD	Fixed Extruded-Aluminum Louvers	D				
089119	2.4	PD	Louver Screens	D				
089119	1.3 F	SAM	For each type of metal finish required.	D				
089119	1.3 G	QCS	Sample Warranties	D				
089516			WALL VENTS					
089516	2.2	PD	Wall Vents (Brick Vents)	D				
089516	1.2 E	SAM	For each type of metal finish required.	D				
089516	1.3 A	QCS	Evaluation Reports	D				
089516	1.3 B	QCS	Sample Warranties	D				
090561			MOISTURE VAPOR EMISSION CONTROL					
090561	1.3 E	PD	Qualification Data: For Installer and Manufacturer	D				
090561	1.3 F	PD	Product Test Reports	D				
090561	1.3 G	PD	Preinstallation testing reports	D				
090561	1.3 H	PD	Field quality-control reports	D				
090561	2.2	PD	MVE-Control System	D				
090561	2.3	PD	Accessories	D				
092116			GYPSON BOARD ASSEMBLIES					
092116	2.1	PD	Gypsum Board	D				
092116	2.2	PD	Fasteners	D				
092116	2.3	PD	Trim	D				
092116	2.4	PD	Accessories	D				
092116	2.5	PD	Joint Treatment Materials	D				
092116	1.3 E 1	SAM	Gypsum Board	D				
092116	1.3 E 2	SAM	Fasteners	D				
092116	1.3 E 3	SAM	Adhesive	D				
093013			CERAMIC TILING					
093013	1.5 E	SD	Full detailed drawings of each type of tile and tile pattern.	D				
093013	2.3	PD	Tile Products	D				
093013	2.4	PD	Thresholds	D				
093013	2.5	PD	Tile Backing Panels	D				
093013	2.6	PD	Waterproof Membrane	D				
093013	2.7	PD	Crack Isolation Membrane	D				
093013	2.8	PD	Setting Materials	D				
093013	2.9	PD	Grout Materials	D				
093013	2.10	PD	Miscellaneous Materials	D				
093013	2.11	PD	Mixing Mortars and Grout	D				
093013	1.5 F	SAM	Initial Selection: For tile, grout, and accessories involving color selection.	D				
093013	1.5 G 1	SAM	Verification - Full-size units of each type and composition of tile and for each color and finish required.	D				
093013	1.5 G 2	SAM	Verification - Full-size units of each type of trim and accessory.	D				
093013	1.5 G 3	SAM	Verification - Stone Thresholds	D				
093013	1.5 G 4	SAM	Verification - Metal Edge Strips	D				

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093013	1.5 H	QCS	Qualification Data: For Installer.	D				
093013	1.5 I	QCS	Master Grade Certificates	D				
093013	1.5 J	QCS	Product Certificates	D				
093013	1.5 K	QCS	Product Test Reports	D				
093013	1.5 L	QCS	Field Quality Control Reports	D				
093013	1.6 A	QCS	Maintenance Material Submittals	F				
093023			GLASS MOSAIC TILING					
093023	1.5 E	SD	Full detailed drawings of each type of tile and tile pattern.	D				
093023	2.3	PD	Tile Products	D				
093023	2.4	PD	Tile Backing Panels	D				
093023	2.5	PD	Setting Materials	D				
093023	2.6	PD	Grout Materials	D				
093023	2.7	PD	Miscellaneous Materials	D				
093023	2.8	PD	Mixing Mortars and Grout	D				
093023	1.5 F	SAM	Initial Selection: For tile, grout, and accessories involving color selection.	D				
093023	1.5 G 1	SAM	Verification - Full-size units of each type and composition of tile and for each color and finish required.	D				
093023	1.5 H	QCS	Qualification Data: For Installer.	D				
093023	1.5 I	QCS	Master Grade Certificates	D				
093023	1.5 J	QCS	Product Certificates	D				
093023	1.5 K	QCS	Product Test Reports	D				
093023	1.6 A	QCS	Maintenance Material Submittals	D/F				
095123			ACOUSTICAL TILE CEILINGS					
095123	1.5 D	PACK	Submit the Product Data, Samples, Quality Control Submittals and Firestop Schedule at the same time as a package.	D				
095123	1.5 I	SD	Coordination Drawings	D				
095123	2.3	PD	Acoustical Tiles ACT-1	D				
095123	2.4	PD	Metal Suspension System ACT-1	D				
095123	2.5	PD	Acoustical Tiles ACT-2	D				
095123	2.6	PD	Metal Suspension System ACT-2	D				
095123	2.7	PD	Accessories	D				
095123	2.8	PD	Metal Edge Molding and Trim	D				
095123	1.5 F	SAM	For each exposed product and for each color and texture specified.	D				
095123	1.5 G	SAM	Initial Selection: For components with factory-applied finishes.	D				
095123	1.5 H 1	SAM	Verification - Acoustical Tiles	D				
095123	1.5 H 2	SAM	Verification - Concealed Suspension-System Members	D				
095123	1.5 H 3	SAM	Verification - Exposed Moldings and Trim	D				
095123	1.5 H 4	SAM	Verification - Fasteners	D				
095123	1.5 H 5	SAM	Verification - Wire	D				
095123	1.5 J 1	QCS	Installer's Qualifications Data	D				
095123	1.6 A	CCS	Maintenance Data	F				
095123	1.7 A	CCS	Maintenance Materials	F				

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096513			RESILIENT BASE AND ACCESSORIES					
096513	2.1	PD	Thermoset-Rubber Base RB-1	D				
096513	2.2	PD	Thermoset-Rubber Base RB-2	D				
096513	2.3	PD	Installation Materials	D				
096513	1.2 E	SAM	For each exposed product, color and texture specified.	D				
096513	1.2 F	QCS	Product Schedule	D				
096513	1.3 A	QCS	Maintenance Material Submittals	D/F				
096566			RESILIENT ATHLETIC FLOORING					
096566	1.4 E	SD	Shop Drawings: Show installation details and locations	D				
096566	2.1	PD	Interlocking Rubber Floor Tilke AF-1	D				
096566	1.4 F	SAM	Samples: For each exposed product and for each type, color, and pattern specified, 6-inch- square in size and of the same thickness	D				
096566	1.4 G	SAM	Samples for Initial Selection: For each type of resilient athletic flooring	D				
096566	1.4 H	SAM	Samples for Verification: For each type, color, and pattern of flooring specified, 6-inch- square in size and of same thickness and material indicated for the Work	D				
096566	1.5 A	QCS	Maintenance Data	D				
096566	1.6	QCS	Maintenance Material Submittals	D				
096723			RESINOUS FLOORING					
096723	2.1	PD	Resinous Flooring and Base (ERF-1)	D				
096723	2.2	PD	Resinous Flooring and Base (ERF-2)	D				
096723	2.3	PD	Accessory Materials	D				
096723	1.4 E	SAM	Verification - For each resinous flooring system required and for each color and texture specified.	D				
096723	1.4 F	QCS	Product Schedule	D				
096723	1.4 G	QCS	Installer's Qualifications Data	D				
096723	1.4 H	QCS	Material Certificates	D				
096723	1.4 I	QCS	List of Completed Installations	D				
096723	1.4 J	QCS	Material Test Reports	D				
096723	1.4 K	QCS	Field Quality-Control Reports	D				
096723	1.5 A	CCS	Maintenance Data	F				
096813			TILE CARPETING					
096813	2.1	PD	Carpet Tile CPT-1	D				
096813	2.2	PD	Carpet Tile CPT-2	D				
096813	2.3	PD	Installation Accessories	D				
096813	1.5 E 1	SAM	Carpet Tile	D				
096813	1.5 E 2	SAM	Exposed Edge, Transition and Other Accessory Stripping.	D				
096813	1.5 F	QCS	Product Schedule	D				
096813	1.5 G	QCS	Qualification Data: For Installer.	D				
096813	1.5 H	QCS	Product Test Reports	D				

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096813	1.5 I	QCS	Sample Warranty	D				
096813	1.6	CCS	Maintenance Data	F				
096813	1.7	QCS	Maintenance Material Submittals	D				
097200			WALL COVERINGS					
097200	1.4 E	SD	Show location and extent of each wall-covering type. Indicate pattern placement, veneer matching seams and termination points	D				
097200	2.2	PD	Vinyl Wall Covering WC-1	D				
097200	2.3	PD	Vinyl Wall Covering WC-2, WC-5 through WC-9	D				
097200	2.4	PD	Vinyl Wall Covering WC-3	D				
097200	2.5	PD	Vinyl Wall Covering WC-4	D				
097200	1.4 F	SAM	For each type of wall covering and for each color, pattern, texture, and finish specified.	D				
097200	1.4 G	QCS	Product Schedule	D				
097200	1.4 H	QCS	Product Test Reports	D				
097200	1.5 A	CCS	Maintenance Data	F				
097200	1.6 A	QCS	Maintenance Material Submittals	D				
098436			SOUND-ABSORBING CEILING UNITS					
098436	1.5 E	SD	Full detailed drawings for unit assembly and installation.	D				
098436	1.5 H	SD	Coordination Drawings	D				
098436	2.3	PD	Sound-Absorbing Ceiling Units	D				
098436	2.4	PD	Materials	D				
098436	1.5 F	SAM	Initial Selection: For each color option.	D				
098436	1.5 G 1	SAM	Verification - Panel Edge	D				
098436	1.5 G 2	SAM	Verification - Core Material	D				
098436	1.5 G 3	SAM	Verification - Mounting Devices	D				
098436	1.5 G 4	SAM	Verification - Assembled Panels	D				
098436	1.5 I	QCS	Product Certificates	D				
098436	1.5 J	QCS	Sample Warranty	D				
098436	1.6	CCS	Maintenance Data	D				
098436	1.7	QCS	Maintenance Material Submittals	D				
099114			EXTERIOR PAINTING (MPI STANDARDS)					
099114	2.3	PD	Paint Materials	D				
099114	2.4	PD	Source Quality Control	D				
099114	1.4 F	SAM	Each Type of Topcoat Product	D				
099114	1.4 G	SAM	Initial Selection: For Each Type of Topcoat Product	D				
099114	1.4 H	SAM	Verification - For Each Type of Paint System and Each Color and Gloss of Topcoat	D				
099114	1.4 D	QCS	Painting Schedule	D				
099114	1.4 I	QCS	Contractor's Qualifications	D				
099114	1.4 J	QCS	Certification of Volatile Organic Compounds	D				
099123			INTERIOR PAINTING (MPI STANDARDS)					
099123	2.3	PD	Paint Materials	D				
099123	1.4 F	SAM	Verification - For Each Type of Paint System and Each Color and Gloss of Topcoat	D				

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Spec Section	Sub Section	Type	Description	F	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
				F/O				
				D				
				S				
099123	1.4 D	QCS	Painting Schedule	D				
099123	1.4 G	QCS	Contractor's Qualifications	D				
099123	1.4 H	QCS	Certification of Volatile Organic Compounds	D				
101419			DIMENSIONAL LETTER SIGNAGE					
101419	1.3 E	SD	Full detailed drawings for signs.	D				
101419	2.1	PD	Dimensional Characters	D				
101419	2.2	PD	Dimensional Character Materials	D				
101419	2.3	PD	Accessories	D				
101419	1.3 F	SAM	Initial Selection: For each type of sign assembly, exposed component, and exposed finish.	D				
101419	1.3 G	SAM	Verification - For each type of sign assembly showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated.	D				
101419	1.3 H	QCS	Product Schedule	D				
101419	1.3 I	QCS	Qualification Data: For Installer and manufacturer.	D				
101419	1.3 J	QCS	Sample Warranty	D				
101419	1.4 A	CCS	Maintenance Data	F				
101423.16			ROOM-IDENTIFICATION PANEL SIGNAGE					
101423.16	1.6 E	SD	Full detailed drawings for room-identification signs.	D				
101423.16	2.2	PD	Room-Identification Signs	D				
101423.16	2.3	PD	Sign Materials	D				
101423.16	2.4	PD	Accessories	D				
101423.16	1.6 F	SAM	Initial Selection: For each type of sign assembly, exposed component, and exposed finish.	D				
101423.16	1.6 G	SAM	Verification - For each type of sign assembly showing all components and with the required finish(es), in manufacturer's standard size unless otherwise indicated.	D				
101423.16	1.6 H	QCS	Product Schedule	D				
101423.16	1.6 I	QCS	Qualification Data: For fabricator	D				
101423.16	1.6 J	QCS	Sample Warranty	D				
101423.16	1.7 A	CCS	Maintenance Data	D				
101423.16	1.8	QCS	Maintenance Material Submittals	F				
102113.19			PLASTIC TOILET COMPARTMENTS					
102113.19	1.3 E	SD	Full detailed drawings for solid-plastic toilet compartments.	D				
102113.19	2.2	PD	Solid-Plastic Toilet Compartments	D				
102113.19	2.3	PD	Hardware and Accessories	D				
102113.19	1.3 F	SAM	Initial Selection: Manufacturer's Standard Color Sheets	D				
102113.19	1.3 G	SAM	Verification - Actual sample of finished products for each type of toilet compartment indicated.	D				
102113.19	1.4 A	CCS	Maintenance Data	D				
102113.19	1.5	QCS	Maintenance Material Submittals	F				

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
102116.19			PLASTIC SHOWER COMPARTMENTS					
102116.19	1.3 E	SD	Full detailed drawings for shower and dressing compartments.	D				
102116.19	2.2	PD	Shower Receptors	D				
102116.19	1.3 F	SAM	Initial Selection: For each type of receptor material indicated.	D				
102116.19	1.3 G	SAM	Verification - Each type of hardware and accessory.	D				
102116.19	1.4 H	QCS	Product Certificates	D				
102116.19	1.4 A	QCS	Maintenance Data	D				
102233			ACCORDIAN FOLDING PARTITIONS					
102233	1.6 E	SD	Full detailed drawings for accordion folding partitions.	D				
102233	1.6 H	SD	Coordination Drawings	D				
102233	1.6 I	SD	Setting Drawings	D				
102233	2.2	PD	Accordian Folding Partition	D				
102233	2.3	PD	Components	D				
102233	2.4	PD	Suspension Systems	D				
102233	2.5	PD	Electric Operators	D				
102233	2.6	PD	Facing Materials	D				
102233	1.6 F	SAM	Initial Selection: For each type of exposed material, facing material, and finish indicated.	D				
102233	1.6 G	SAM	Verification - For each type of exposed material, facing material, and finish indicated.	D				
102233	1.6 J	QCS	Qualification Data: For manufacturer and Installer.	D				
102233	1.6 K	QCS	Product Certificates	D				
102233	1.6 L	QCS	Sample Warranty	D				
102233	1.7 A	CCS	Operation and Maintenance Data	F				
102600			WALL AND DOOR PROTECTION					
102600	1.3 E	SD	For each type of wall and door protection showing locations and extent	D				
102600	2.3	PD	Corner Guards	D				
102600	2.4	PD	Abuse-Resistant Sheet Wall Covering	D				
102600	1.3 F	SAM	Initial Selection: For each type of exposed finish on the following products, prepared on Samples	D				
102600	1.3 G	QCS	Sample Warranty	D				
102600	1.4 A	CCS	Maintenance Data	F				
102600	1.5	QCS	Maintenance Material Submittals	F				
102800			TOILET, BATH, AND LAUNDRY ACCESSORIES					
102800	2.2	PD	Public-Use Washroom Accessories	D				
102800	2.3	PD	Public-Use Shower Room Accessories	D				
102800	2.4	PD	Healthcare Accessories	D				
102800	2.5	PD	Childcare Accessories	D				
102800	2.6	PD	Underlatory Guards	D				
102800	2.7	PD	Custodial Accessories	D				
102800	1.4 E	SAM	For each exposed product and finish specified, full size.	D				

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
102800	1.4 F	QCS	Product Schedule	D				
102800	1.4 G	QCS	Sample Warranty	D				
102800	1.5	CCS	Maintenance Data: For accessories to include in maintenance manuals	F				
102800	1.6	CCS	Maintenance Data	F				
104413			FIRE PROTECTION CABINETS					
104413	1.3 E	SD	Full detailed drawings for fire-protection cabinets.	D				
104413	2.3	PD	Fire-Protection Cabinet	D				
104413	1.3 G	SAM	For each type of exposed finish required.	D				
104413	1.3 H	SAM	Verification - For each type of exposed finish required.	D				
104413	1.4 A	CCS	Maintenance Data	F				
104416			FIRE EXTINGUISHERS					
104416	2.2	PD	Portable, Hand-Carried Fire Extinguishers	D				
104416	1.2 E	QCS	Warranty	D				
104416	1.3 A	CCS	Operation and Maintenance Data	F				
115213			PROJECTION SCREENS					
115213	1.3 F	SD	Show layouts and types of front-projection screens	D				
115213	2.3	PD	Electrically Operated, Front-Projection Screens	D				
115213	1.3 G	SAM	Initial Selection: For each type of exposed finish	D				
115213	1.3 H	SAM	Samples for Verification: For each type of exposed finish, in manufacturer's standard sizes	D				
115213	1.3 I	QCS	Project Schedule	D				
115213	1.4	CCS	Maintenance Data	F				
122413			ROLLER WINDOW SHADES					
122413	1.2 E	SD	Fabrication and installation details for roller shades.	D				
122413	2.2	PD	Manually Operated Shades with Single Rollers	D				
122413	2.3	PD	Motor-Operated, Single-Roller Shades	D				
122413	2.4	PD	Shadeband Materials	D				
122413	1.2 F	SAM	Initial Selection: For each type and color of shadeband material.	D				
122413	1.2 G	SAM	Verification - For each type of roller shade.	D				
122413	1.2 H	QCS	Product Schedule	D				
122413	1.2 I 1	QCS	Qualification Data: For Installer.	D				
122413	1.2 I 2	QCS	Product Certificates	D				
122413	1.2 I 3	QCS	Product Test Reports	D				
122413	1.2 J	CCS	Operation and Maintenance Data	F				
122413	1.2 K	QCS	Maintenance Material Submittals	F				
123216			MANUFACTURED PLASTIC-LAMINATE-CLAD CASEWORK					
123216	1.5 E	SD	Full detailed drawings for plastic-laminate-clad casework.	D				
123216	2.2	PD	General Requirements for Casework	D				

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123216	2.3	PD	Plastic Laminate-Clad Casework	D				
123216	2.4	PD	Casework Hardware and Accessories	D				
123216	2.5	PD	Materials	D				
123216	1.5 F	SAM	Initial Selection: For casework and hardware finishes.	D				
123216	1.5 G 1	SAM	Verification - Plastic Laminates	D				
123216	1.5 G 2	SAM	Verification - Thermally Fused Laminate Panels	D				
123216	1.5 G 3	SAM	Verification - Base Cabinet	D				
123216	1.5 G 4	SAM	Verification - Wall Cabinet	D				
123216	1.5 G 5	SAM	Verification - Full-Size Samples	D				
123216	1.5 H 1	QCS	Qualification Data: For casework manufacturer and Installer.	D				
123216	1.5 H 2	QCS	Sample Warranty	D				
123216	1.5 H 3	QCS	Field Quality-Control Reports	F				
123216	1.5 I	CCS	Quality Standard Compliance Certificates	F				
123640			STONE COUNTERTOPS					
123640	1.2 F	SD	Full detailed drawings including plans, sections, details, and attachments to other work.	D				
123640	2.2	PD	Quartz Surfacing, SS-2	D				
123640	2.3	PD	Adhesives, Grout, Sealants and Stone Accessories	D				
123640	2.4	PD	Stone Fabrication, General	D				
123640	2.5	PD	Stone Countertops	D				
123640	1.2 G	SAM	Verification - For each stone type indicated.	D				
123640	1.2 D 1	QCS	Qualification Data: For fabricator.	D				
123640	1.2 D 2	QCS	Material Test Reports	D				
123640	1.2 H	CCS	Maintenance Data	F				
142000			ELEVATORS (NEW INSTALLATIONS)					
142000	1.9 E	PACK	Submit the shop drawings, product data, samples, and quality control submittals at the same time as a package except: Control System Wiring Diagrams and Test Reports	D				
142000	1.9 F 1	SD	Hoistway, sections and layouts showing reaction points with reactions	D				
142000	1.9 F 2	SD	Entrance and car details	D				
142000	1.9 F 3	SD	Details of doors, frames and sills	D				
142000	1.9 F 4	SD	Control system wiring diagrams	D				
142000	1.9 F 5	SD	Car and lobby fixture details	D				
142000	1.9 F 6	SD	Machine and emergency brake drawings per manufacturer's drawings	D				
142000	2.1	PD	Elevator Equipment	D				
142000	2.3	PD	Elevator Car	D				
142000	2.4	PD	Entrance Fixtures	D				
142000	2.5	PD	Entrances	D				
142000	2.6	PD	Mechanical	D				
142000	2.7	PD	Microprocessor Logic Controller	D				
142000	2.8	PD	Painting	D				
142000	2.9	PD	Handicap Access Signs	D				
142000	2.10	PD	Code Data Plate	D				

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
142000	1.9 H 1	SAM	Color Selections	D				
142000	1.9 I 1	QCS	Installer's Qualifications Data	D				
142000	1.9 I 2	QCS	Test Reports - Acceptance Test Report	D				
142000	1.9 I 3	QCS	Certificate by the Company Field Advisor notarized certifying that the equipment meets contract requirements	D				
142000	1.9 J 1	CCS	Operation and Maintenance Data - 2 copies	F				
142000	1.9 J 2	CCS	Deliver all Portable diagnostic keyboards and/or programming tools	F				
142000	1.13 A	CCS	Special Manufacturer's Warranty	F				
142000	1.14	CCS	Initial Maintenance Service	F				
310000			EARTHWORK					
310000	1.6 D	PD	Existing Conditions	D				
310000	1.6 E	PD	Qualification Data: For qualified testing agency	D				
310001			EARTHWORK MATERIALS					
310001	2.1 A	PD	Select Granular Material	D				
310001	2.1 B	PD	Subbase Course Type 2	D				
310001	2.1 C	PD	Selected Fill	D				
310001	2.1 D	PD	Cushion Material	D				
310001	2.1 E	PD	Topsoil	D				
310001	2.2 A	PD	Geotextile - Separation for foundation drains, underdrains, undercuts	D				
310001	2.3 A	PD	Warning Tape	D				
310001	2.3 B	PD	Detectable Warning Tape	D				
310001	1.4 G 1	SAM	Select Granular Material	F				
310001	1.4 G 2	SAM	Subbase Course Type 2	F				
310001	1.4 G 3	SAM	Selected Fill	F				
310001	1.4 G 4	SAM	Cushion Material	F				
310001	1.4 G 5	SAM	River Stone	F				
310001	1.4 G 6	SAM	Topsoil	F				
310001	1.4 E	QCS	Qualification Data: For ASTM certified soils testing agency.	D				
310001	1.4 F	QCS	Material Test Reports: For each [on-site] [and] [borrow] soil material proposed for fill and backfill.	D				
310001	1.4 H 1	QCS	Source Quality-Control Submittals - Subbase Materials: Provide name and location of source and the NYSDOT Source Number. If the material is not being taken from an approved NYSDOT source, the soil laboratory test results for gradation and soundness tests performed by an ASTM certified soils laboratory will be required.	D				
310001	1.4 H 2	QCS	Source Quality-Control Submittals - Other Aggregates: Provide name and location of source and soil laboratory test results for gradation and soundness tests performed by an ASTM certified soils laboratory.	D				

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310001	1.4 H 3	QCS	Source Quality-Control Submittals - Topsoil: Topsoil used on this project shall be tested by a certified soils laboratory for organic matter, Ph value, and gradation, and must be approved before placement.	D				
310001	1.4 I	QCS	Supplier's Certificate	D				
312500			EROSION AND SEDIMENTATION CONTROLS					
312500	2.1	PD	Pipe Materials	D				
321216			ASPHALT PAVING					
321216	2.1	PD	Aggregates	D				
321216	2.2	PD	Asphalt Materials	D				
321216	1.6 F 1	PD	Asphalt Designs: Certification, by authorities having jurisdiction, of approval of each asphalt design proposed for the Work.	D				
321216	1.6 F 2	PD	Asphalt Designs: Batch plant name, NYSDOT Plant Number, and location of asphalt plant for each asphalt design proposed for the Work.	D				
321216	1.6 F 3	PD	Asphalt Mix Design Test results that are less than 6 months old for each mix proposed for the Work.	D				
321216	1.6 E	EPD	Environmental Product Declaration	D				
321216	1.6 H	QCS	Qualification Data	D				
321216	1.6 I	QCS	Material Delivery Tickets for Pavement Materials	F				
321216	1.6 J	QCS	Field Quality-Control Reports	D				
321313			CONCRETE PAVING					
321313	1.4 F	PD	Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.	D				
321313	2.2	PD	Forms	D				
321313	2.3	PD	Steel Reinforcement	D				
321313	2.4	PD	Concrete Materials	D				
321313	2.5	PD	Curing Materials	D				
321313	2.6	PD	Related Materials	D				
321313	2.7	PD	Concrete Mixtures	D				
321313	2.8	PD	Concrete Mixing	D				
321313	1.4 E	EPD	Environmental Product Declaration	D				
321313	1.4 G	QCS	Material Certificates	D				
321313	1.4 H	QCS	Data: Name and Location of batch plant for concrete paving	D				
321313	1.4 I	QCS	Ready-Mix-Concrete Manufacturer Qualifications	D				
321373			CONCRETE PAVING JOINT SEALANTS					
321373	2.2	PD	Cold-Applied Joint Sealants	D				
321373	2.3	PD	Joint-Sealant Backer Materials	D				
321373	2.4	PD	Primers	D				
321373	2.5	PD	Color of Materials	D				

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321373	1.3 E	QCS	Product Certificates: For each type of joint sealant and accessory.	D				
321613			CONCRETE CURBS AND GUTTERS					
321613	2.2	PD	Forms	D				
321613	2.3	PD	Concrete Materials	D				
321613.23	2.4	PD	Fiber Reinforcement	D				
321613	2.5	PD	Curing Materials	D				
321613	2.6	PD	Related Materials	D				
321613	2.7	PD	Concrete Mixtures	D				
321613	1.5 F	PD	Design Mixtures: For each concrete paving mixture. Include alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.	D				
321613	1.5 E	EPD	Environmental Product Declaration	D				
321613	1.5 G	QCS	Qualification Data	D				
321613	1.5 H	QCS	Material Certificates from Manufacturer	D				
321613	1.5 I	QCS	Data: Name and location of batch plant for concrete paving	D				
321613	1.5 J	QCS	Ready-Mix-Concrete Manufacturer Qualifications	D				
321723			PAVEMENT MARKINGS					
321723	2.1	PD	Pavement Markings	D				
321723	1.3 E	SAM	For each exposed product and for each color and texture specified; on rigid backing, 8 inches square.	F				
321723	1.3 F	QCS	Certification: Affidavit by the paint applicator, certifying that the materials comply with the current regulatory requirements in effect at the time products were delivered and applied.	D				
323113			CHAIN LINK FENCES AND GATES					
323113	1.4 E	SD	Complete detailed drawings for each height and style of fence and gate required. Include separate schedule for each listing all materials required and technical data such as size, weight, and finish, to ensure conformance to specifications.	D				
323113	2.1	PD	Class B Steel Tubing	D				
323113	2.2	PD	STEEL FRAMEWORK (FOR FENCES UP TO 6'-0" HIGH) - End Posts, Corner Posts and Pull Posts	D				
323113	2.3	PD	Steel Fabric	D				
323113	2.4	PD	Swing Gate Posts	D				
323113	2.5	PD	Swing Gate Frames	D				
323113	2.6	PD	Swing Gate Hardware	D				
323113	2.7 A	PD	Rails and Post Braces	D				
323113	2.7 B	PD	Fittings and Post Tops	D				
323113	2.7 C	PD	Stretcher Bars	D				
323113	2.7 D	PD	Metal Bands (for securing stretcher bars)	D				
323113	2.7 E	PD	Wire Ties	D				
323113	2.7 F	PD	Truss Rods	D				

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SCHEDULE OF SUBMITTALS	
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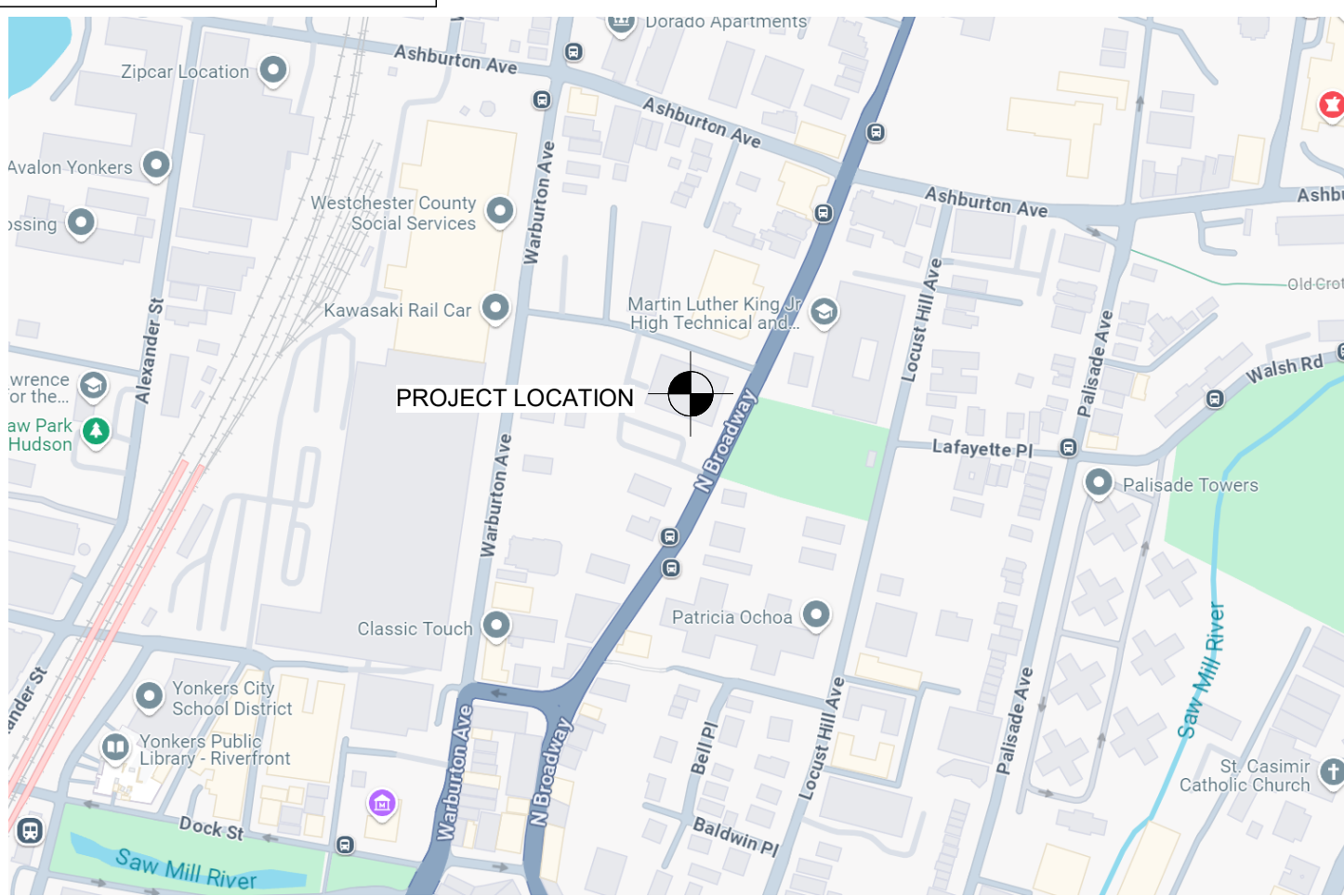
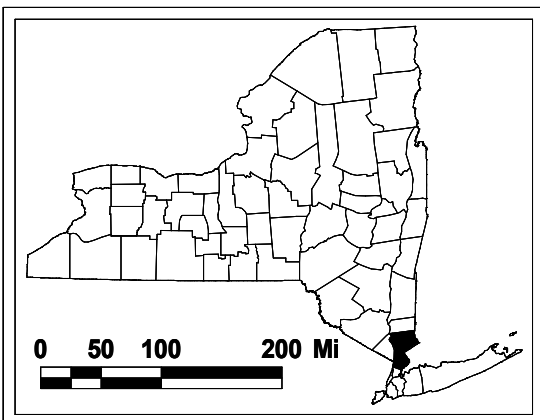
PROJECT NO.: 47477-C

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RENOVATE ARMORY

STATE ARMORY
2 QUINCY PLACE
YONKERS, NY
O.G.S. PROJECT NOs.

47477-C, H, P, E



LOCATION PLAN SCALE: N.T.S.



Military and
Naval Affairs



Office of
General Services

DESIGN & CONSTRUCTION

COMMON C-, H-, P-, E-CONTRACTS			
NO.	SHEET TITLE	SHEET X OF X	SHEET TOTAL
COMMON			
G-001	COVER SHEET	1	198
G-101	CODE SHEET	2	198
G-102	SITE LOGISTICS PLAN	3	198
G-103	GENERAL NOTES	4	198
G-104	CEILING COORDINATION PLANS AND NOTES	5	198
CONSTRUCTION / C-CONTRACT			
NO.	SHEET TITLE	SHEET X OF X	SHEET TOTAL
HAZARDOUS MATERIALS			
H-101	LOWER LEVEL HAZARDOUS MATERIALS REMOVALS PLAN	6	198
H-102	UPPER LEVEL HAZARDOUS MATERIALS REMOVALS PLAN	7	198
CIVIL			
C-101	EXISTING SITE PLAN	8	198
C-102	REMOVAL PLAN	9	198
C-103	SITE PLAN	10	198
C-104	PARTIAL PLANS	11	198
C-501	SITE DETAILS	12	198
C-502	SITE DETAILS	13	198
C-503	SITE DETAILS	14	198
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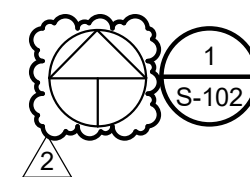
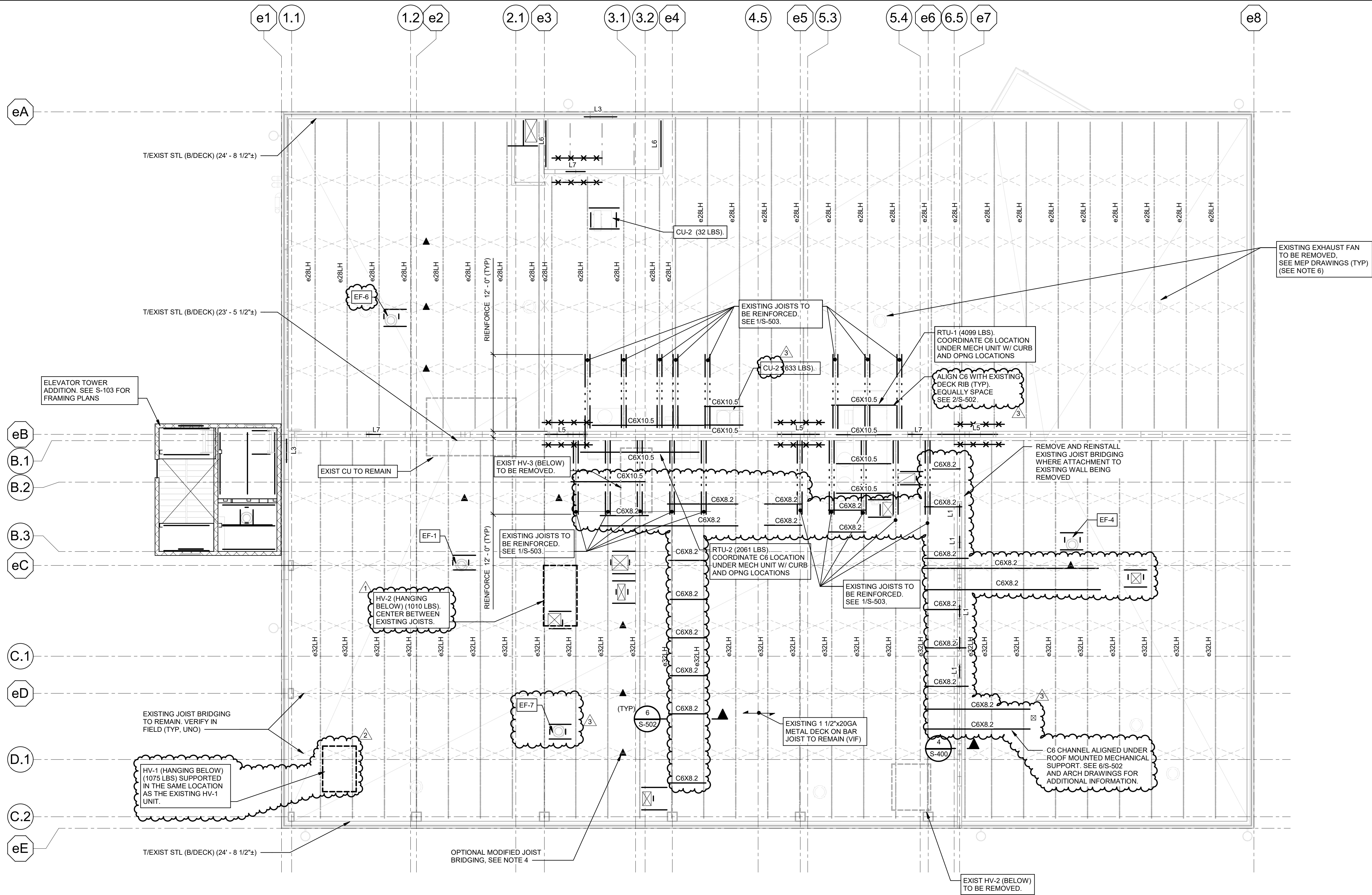
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REGISTRATION EXPIRES: 09/31/2028
09/16/2026
ADDENDUM 1

MARK	DATE	DESCRIPTION
1	03/11/2026	PERMIT SET
2	07/20/2026	PERMIT AMENDMENT SET / BID SET
3	09/16/2026	ADDENDUM 1
DRAWING NUMBER:		
G-001		
1 OF 198		



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

NOTES:

1. T/STEEL (B/DECK) ELEVATION VARIES. SEE PLAN FOR EXISTING ELEVATIONS TO BE VERIFIED IN THE FIELD.
2. EF - INDICATES EXHAUST FAN, RD - INDICATES ROOF DRAIN, HV - INDICATES AIR HANDLER, RV - INDICATES ROOF VENT, RTU - INDICATES ROOF TOP UNIT. COORDINATE SIZE AND LOCATION WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE ROOF OPENING ANGLE FRAME AT ROOF DRAINS AND OTHER OPENINGS WIDER THAN 12 INCHES. SEE 1/S-502. REFER TO THE SPECIFICATIONS FOR DECK REINFORCEMENT AT OPENINGS NOT SUPPORTED BY STEEL FRAMING.
3. NOTIFY DIRECTOR'S REPRESENTATIVE IF ACTUAL WEIGHTS OF MEP EQUIPMENT EXCEED WEIGHTS NOTED IN DRAWINGS. SUBMIT LOAD DATA TO DIRECTOR'S REPRESENTATIVE FOR REVIEW PRIOR TO PROCEEDING WITH INSTALLATION OF EQUIPMENT AND ANY ASSOCIATED STRUCTURAL SUPPORTS. COORDINATE EXACT LOCATIONS OF EQUIPMENT (INCLUDING HOUSEKEEPING PADS, RAILS, STRUCTURAL FRAMING, ETC.) WITH MECHANICAL DRAWINGS AND EQUIPMENT SUPPLIERS.
4. - INDICATES OPTIONAL JOIST BRIDGING MODIFICATION DETAIL. SEE 5/S-502.
5. PATCH ALL EXISTING ROOF DECK OPENINGS WITH NEW METAL DECK MATCHING EXISTING DECK IN KIND. ALIGN FLUTES AND LAP EXISTING DECK 6" MINIMUM AND FASTEN TO EXISTING DECK USING #10 SIDE LAP SCREWS AT 16" OC MAX.
6. SEE S101 FOR ADDITIONAL NOTES.
7. SEE S101 FOR STEEL BEAM LEGEND.

CONSULTANT

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CERTIFICATE OF
AUTHORIZATION #: 0023272

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EXPIRATION DATE:
OCTOBER 31, 2026

CONSTRUCTION

TITLE:

RENOVATE ARMORY

LOCATION:

NY NATIONAL GUARD ARMORY
2 QUINCY PLACE
YONKERS, NY

CLIENT:

DIVISION OF MILITARY AND NAVAL
AFFAIRS

MARK	DATE	DESCRIPTION
3	09/16/2026	ADDENDUM 1
2	07/20/2026	PERMIT AMENDMENT/BID SET
1	03/11/2026	FINAL PRICING SET
	11/24/2025	PERMIT SET

PROJECT NUMBER:
47477-C

DESIGNED BY:

RJM

DRAWN BY:

RJM

FIELD CHECK:

JCH

APPROVED:

JCH

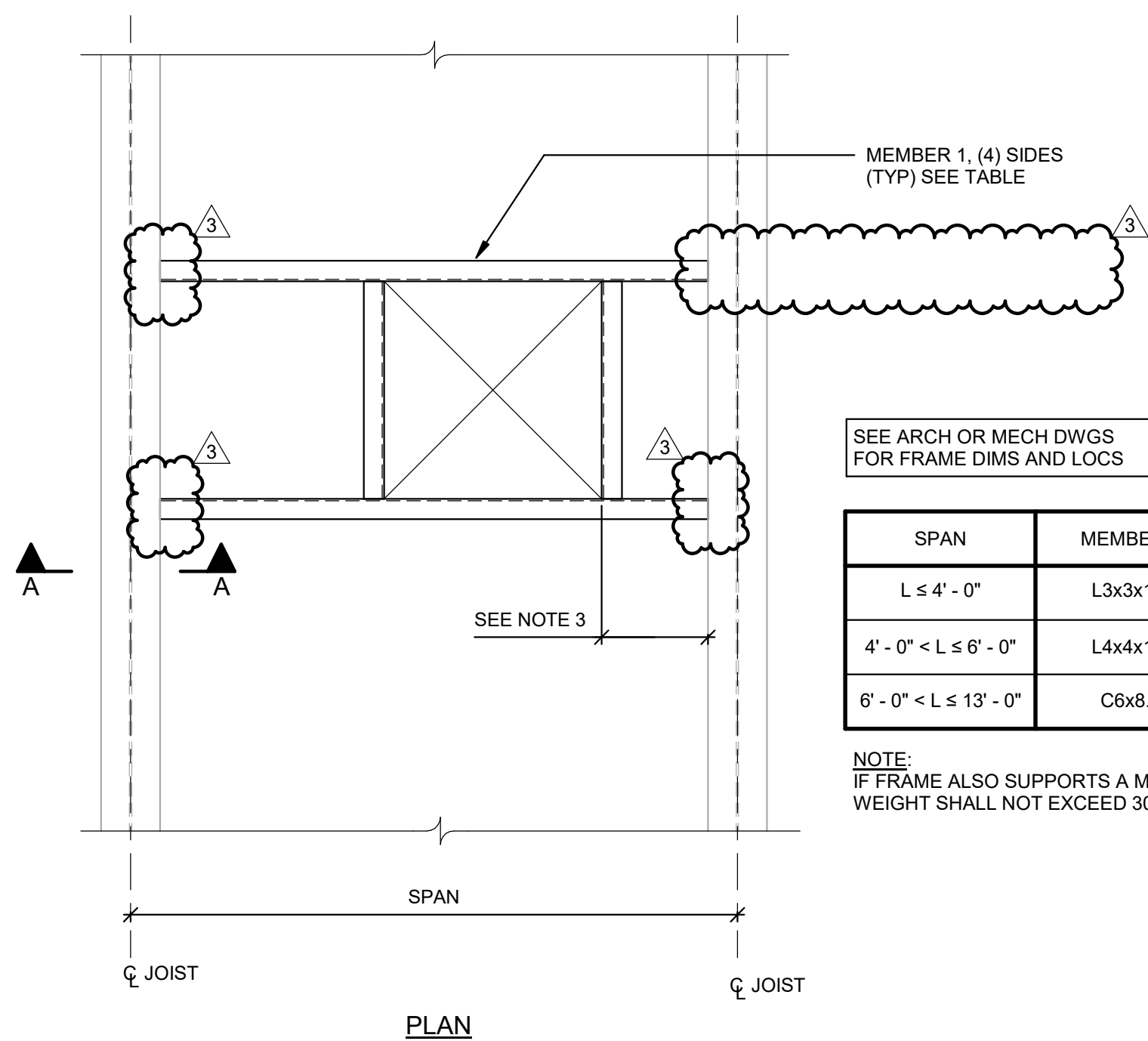
SHEET TITLE:

ROOF FRAMING PLAN

DRAWING NUMBER:

S-102

SHEET 25 OF 198

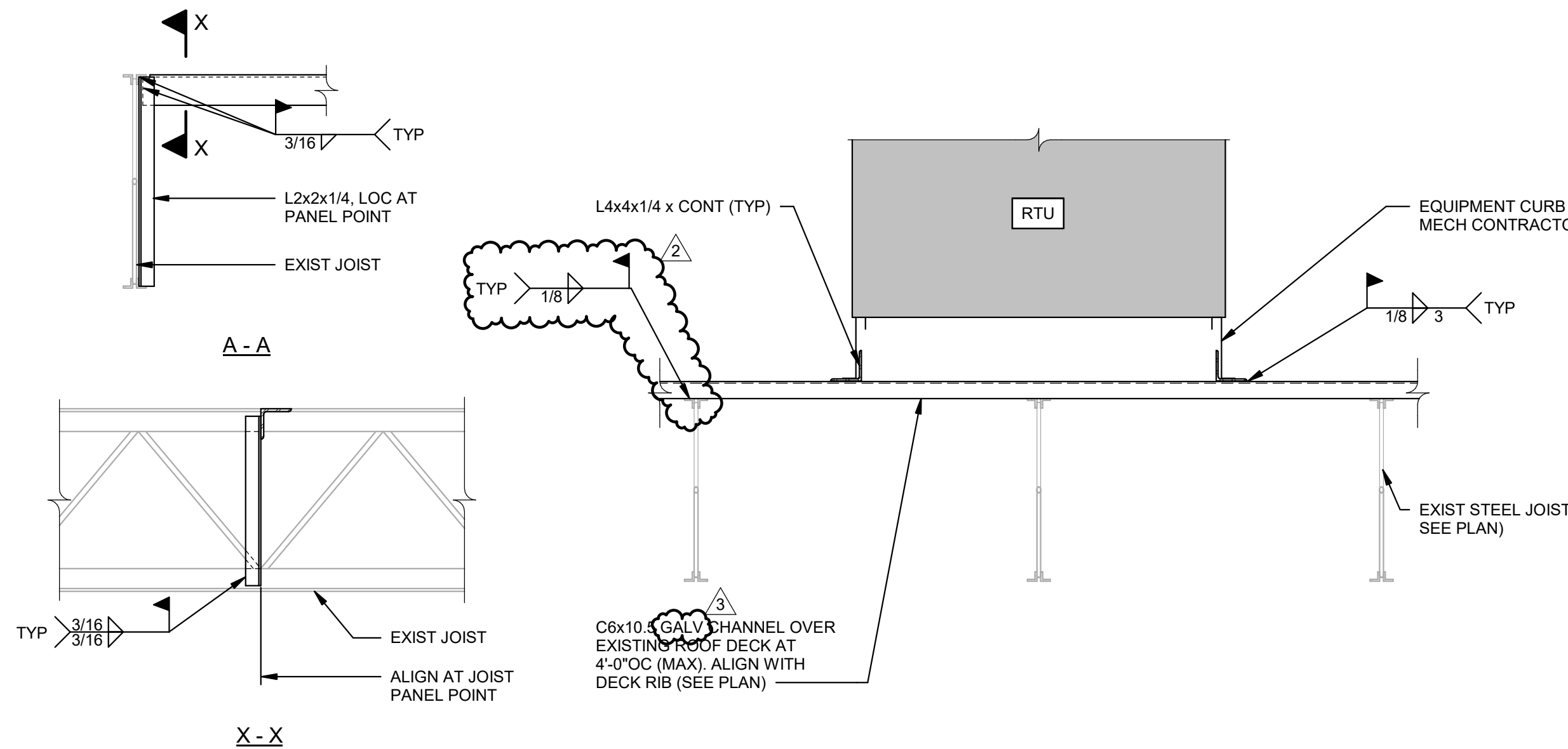


1 WELDED ANGLE FRAME DETAIL

S-502 NOT TO SCALE

NOTES:

- IF FRAME ALSO SUPPORTS A MECHANICAL UNIT, UNIT WEIGHT SHALL NOT EXCEED 300 POUNDS.
- DETAIL SHOWS DIFFERENT ATTACHMENT METHODS TO DIFFERENT EXISTING FRAME MEMBERS. IF NOT NOTED IN PLAN, USE ATTACHMENT THAT WILL POSITION SUPPORT FRAME TIGHT TO EXISTING ROOF MEMBER. NOTIFY ENGINEER IF EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN IN SECTIONS A - A, B - B, C - C, OR D - D.
- WHERE DIMENSION IS LESS THAN 8", OMIT MEMBER 1 PARALLEL TO EXISTING BEAM OR JOIST. TYPICAL (4) SIDES OF PENETRATION.

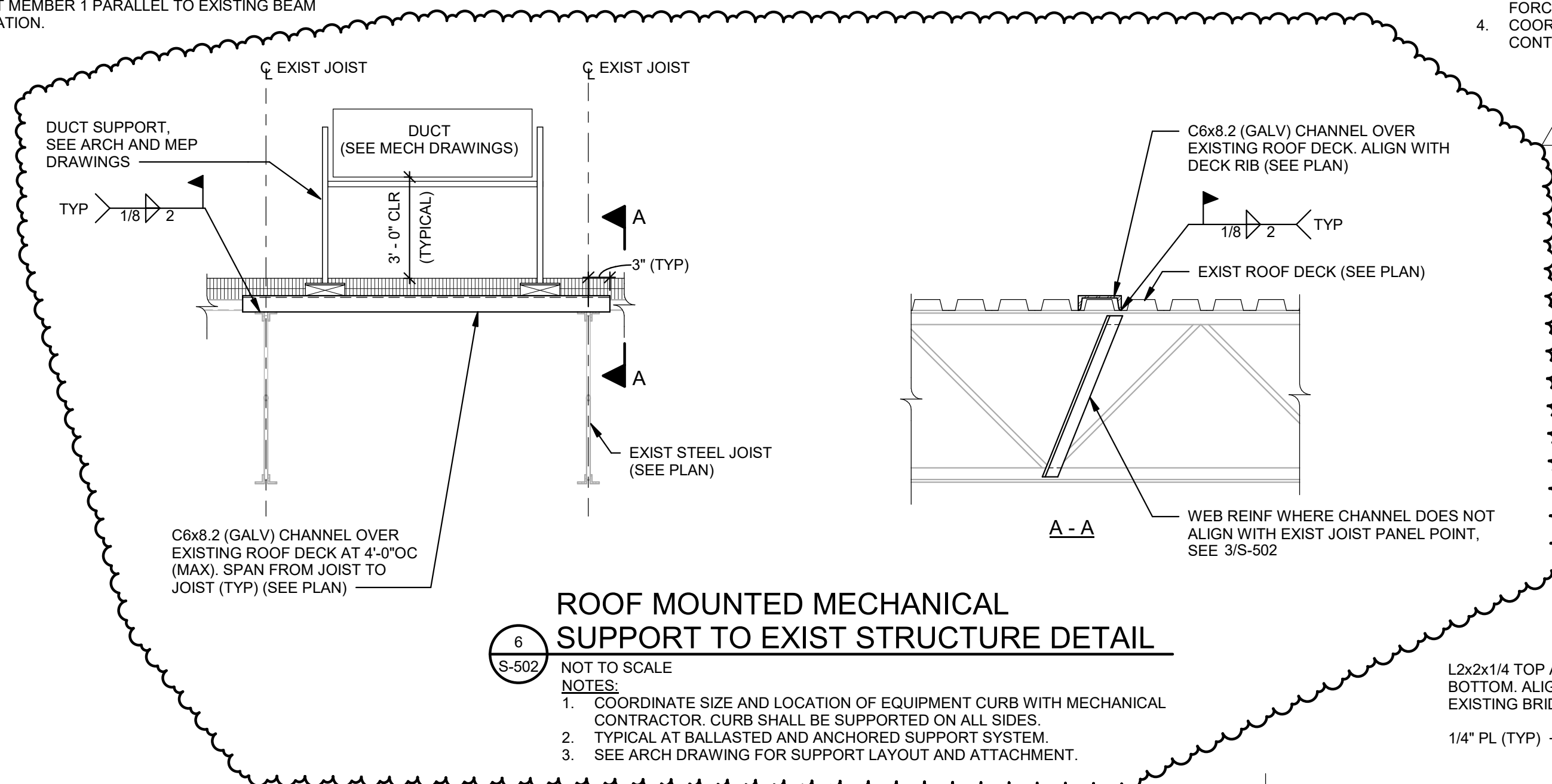


2 ROOF TOP CURB DETAIL

S-502 NOT TO SCALE

NOTES:

- NOTIFY ENGINEER IF EQUIPMENT SIZE AND/OR WEIGHT (INCLUDING CURB) EXCEEDS WEIGHT NOTED ON PLANS.
- IN ADDITION TO CURB SUPPORT FRAME, INSTALL TYPICAL ROOF OPENING FRAME TO SUPPORT DECK AT PERIMETER OF OPENINGS. SEE 1/S-502 FOR ADDITIONAL INFORMATION.
- ANCHOR CURB TO MISC FRAMING SHOWN AS REQUIRED FOR WIND AND/OR SEISMIC FORCES ON SHEET S-001. COORDINATE WITH EQUIPMENT/CURB MANUFACTURER.
- COORDINATE SIZE AND LOCATION OF EQUIPMENT CURB WITH MECHANICAL CONTRACTOR. CURB SHALL BE SUPPORTED ON ALL SIDES.

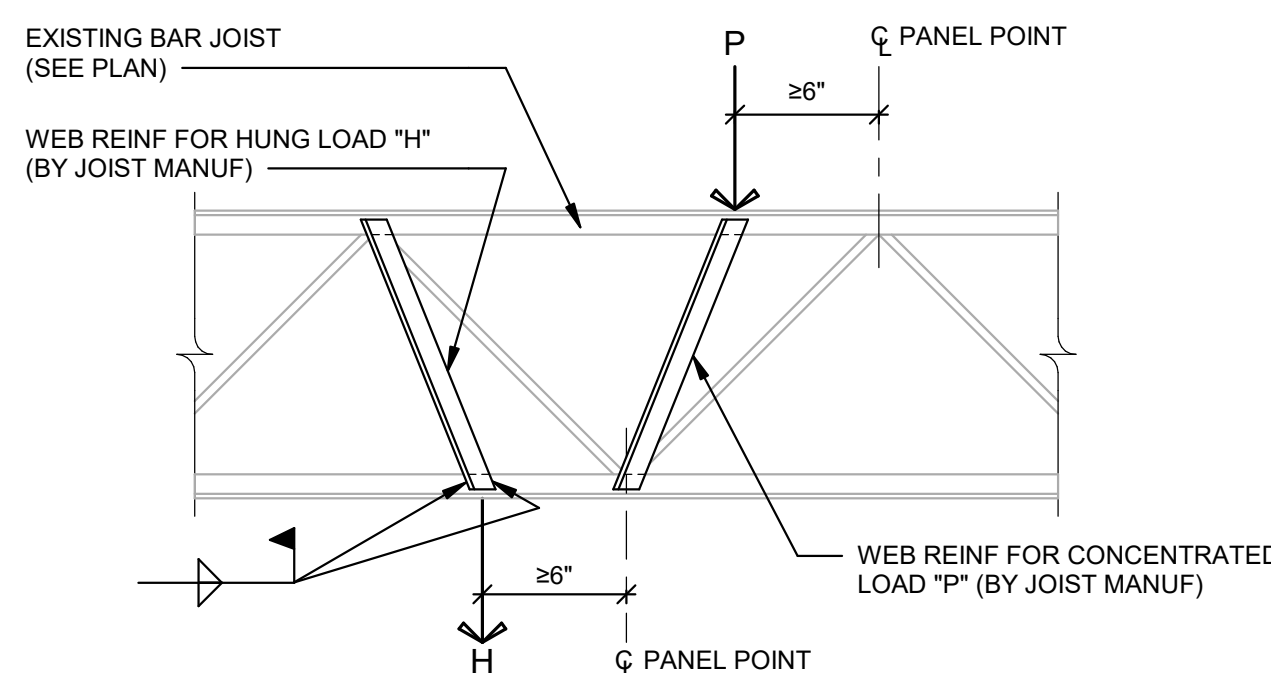


6 ROOF MOUNTED MECHANICAL SUPPORT TO EXIST STRUCTURE DETAIL

S-502 NOT TO SCALE

NOTES:

- COORDINATE SIZE AND LOCATION OF EQUIPMENT CURB WITH MECHANICAL CONTRACTOR. CURB SHALL BE SUPPORTED ON ALL SIDES.
- TYPICAL AT BALLASTED AND ANCHORED SUPPORT SYSTEM.
- SEE ARCH DRAWING FOR SUPPORT LAYOUT AND ATTACHMENT.

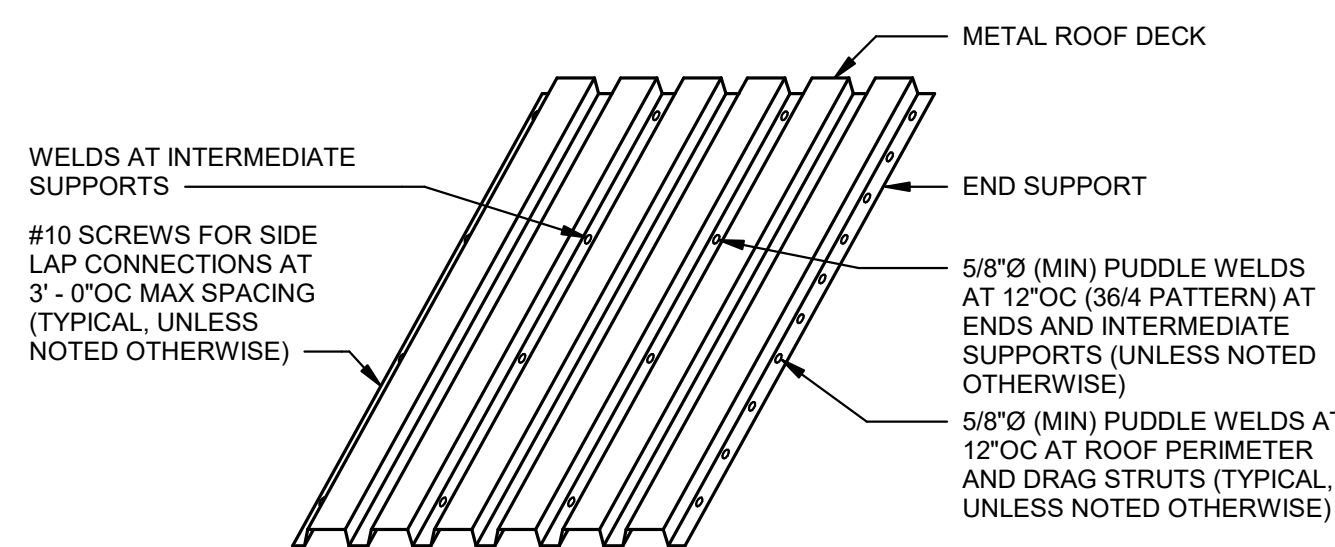


NOTES:

- PROVIDE WEB REINFORCING WHEN "P" AND "H" EXCEED 100 POUNDS. NOTIFY ENGINEER IF "P" OR "H" EXCEED 300 POUNDS.
- GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, AND EQUIPMENT SUPPLIERS, FOR EQUIPMENT LOCATIONS AND WEIGHT. PROVIDE TO JOIST MANUFACTURER FOR INCLUSION IN JOIST DESIGN.
- MINIMUM WEB REINFORCING SHALL BE L1 1/2x1 1/2x3/16 EACH SIDE OF JOIST. JOIST MANUFACTURER SHALL PROVIDE LARGER SIZE IF REQUIRED BY THE JOIST DESIGN.

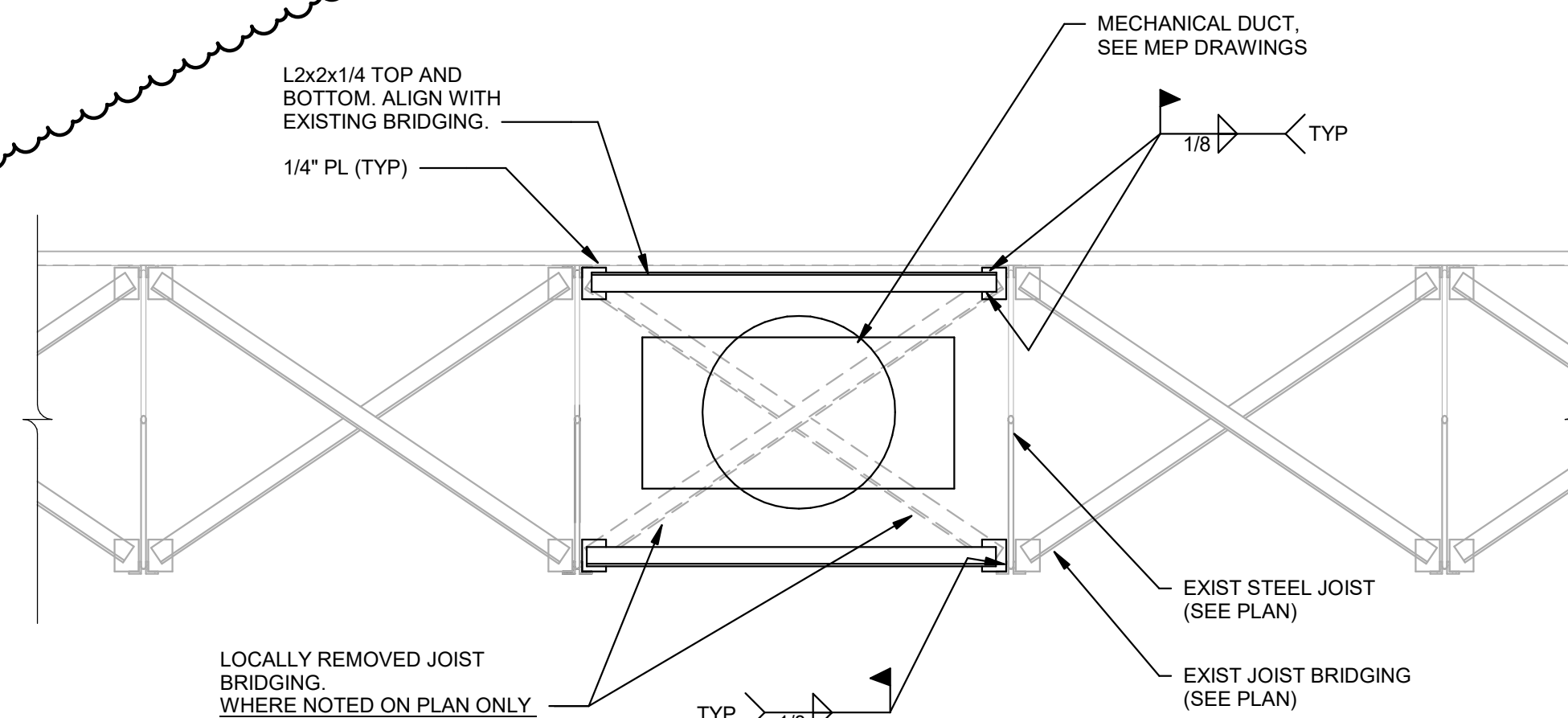
3 JOIST WEB REINFORCING

S-502 NOT TO SCALE



4 ROOF DECK ATTACHMENT DETAIL

S-502 NOT TO SCALE



5 MODIFIED JOIST BRIDGING AT MECHANICAL DUCT

S-502 NOT TO SCALE

NOTES:

- DETAIL SHOWN IS OPTIONAL TO BE USED AT LOCATIONS SHOWN ON PLAN ONLY. NOTIFY EOR IF DETAIL IS NEEDED AT ADDITIONAL LOCATIONS.

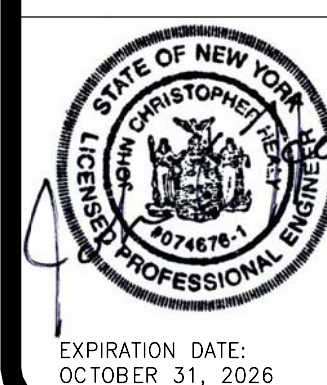
CONSULTANT

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ARCHITECTS

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TITLE:

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MARK	DATE	DESCRIPTION
3	09/16/2026	ADDENDUM 1
2	07/20/2026	PERMIT AMENDMENT/BID SET
1	03/11/2026	FINAL PRICING SET
	11/24/2025	PERMIT SET
PROJECT NUMBER:	47477-C	
DESIGNED BY:	RJM	
DRAWN BY:	RJM	
FIELD CHECK:		
APPROVED:	JCH	

SHEET TITLE:

FRAMING SECTIONS
AND DETAILS

DRAWING NUMBER:

S-502

SHEET 37 OF 198



2 PHOTO 1 - EXIST. ROOF HATCH
SCALE: N.T.S.



3 PHOTO 2 - ROOF LOOKING SOUTHWEST
SCALE: N.T.S.



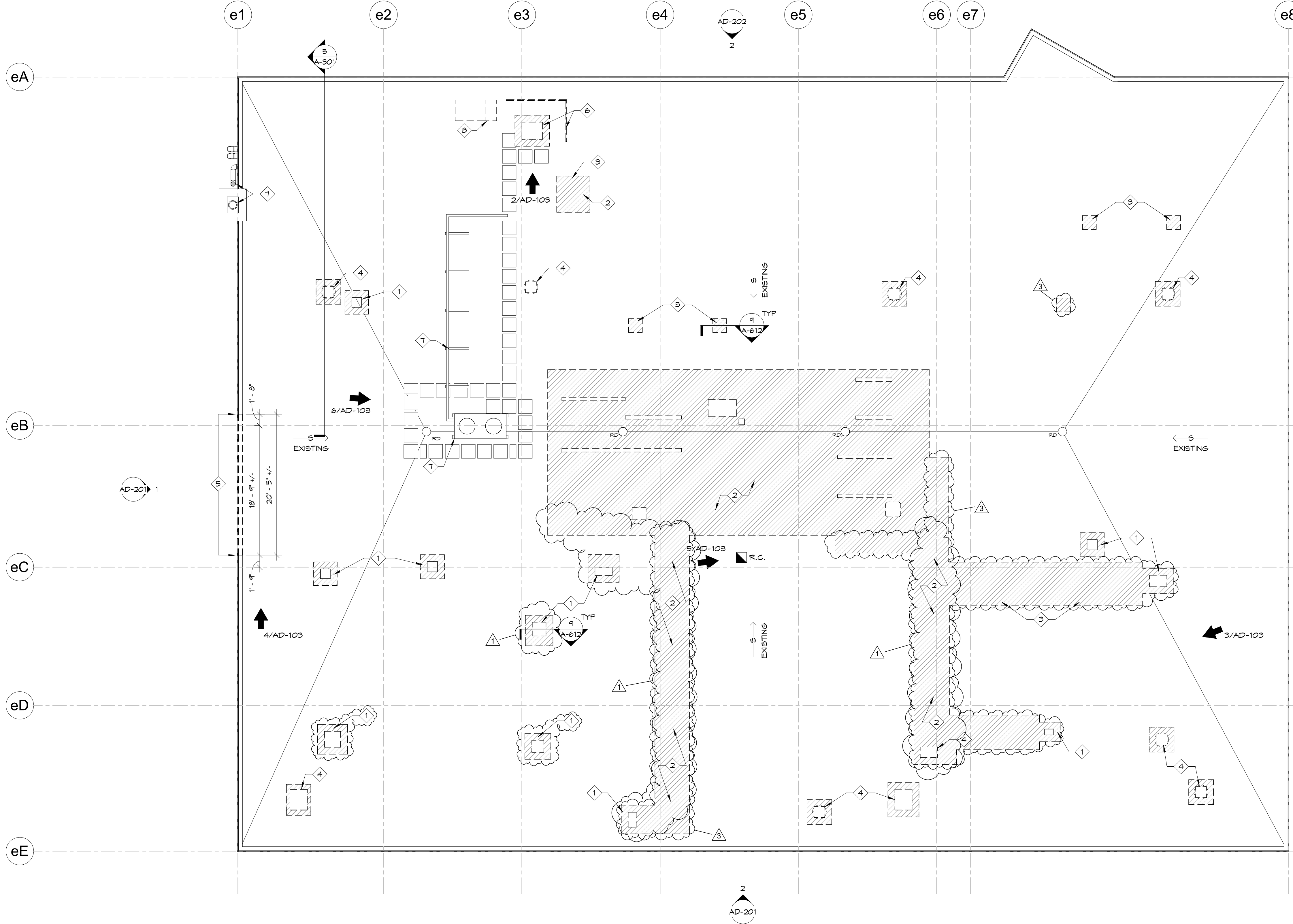
4 PHOTO 3 - WEST ROOF EDGE
SCALE: N.T.S.



5 PHOTO 4 - EXISTING ROOF CUT
SCALE: N.T.S.



6 PHOTO 5 - EXISTING MECH EQUIP
SCALE: N.T.S.



1 ROOF REMOVALS PLAN
SCALE: 1/8" = 1'-0"

GENERAL ROOFING REMOVAL NOTES:

EXISTING ROOF ASSEMBLY:

MFR: FIRESTONE (NOW ELEVATE)
DATE INSTALLED: 2013
WARRANTY: 20 YEAR NDL WARRANTY - EXPIRES 2033
SEE SPECIFICATIONS FOR WARRANTY CERTIFICATE

COMPONENTS OF ROOF ASSEMBLY (BASED OFF OF ROOF CUTS, 2019):

- 0.090" EPDM SINGLE PLY MEMBRANE, FULLY ADHERED TO;
- 1/2" GYPSUM COVER BOARD, FULLY ADHERED TO;
- +/- 2" POLYISOCYANURATE INSULATION, FULLY ADHERED TO;
- +/- 2" POLYISOCYANURATE INSULATION, FULLY ADHERED TO;
- VAPOR RETARDER, FULLY ADHERED TO;
- 1/2" GYPSUM UNDERLAYMENT BOARD, MECHANICALLY FASTENED TO;
- STEEL DECK

1. PRIOR TO THE START OF WORK, CONTRACTOR SHALL VERIFY WITH ROOFING MANUFACTURER THE REQUIREMENTS FOR MAINTAINING THE BALANCE OF EXISTING ROOF WARRANTY. CONTRACTOR IS REQUIRED TO FOLLOW MANUFACTURER'S WARRANTY PROCEDURES THROUGHOUT CONSTRUCTION, SUCH THAT THE EXISTING ROOF WARRANTY REMAINS IN EFFECT AT BUILDING TURNOVER TO DIRECTOR'S REPRESENTATIVE.
2. PROVIDE OSHA-APPROVED, BALLASTED TEMPORARY FALL PROTECTION AT ROOFING PERIMETER WHERE WORK OCCURS WITHIN 10 FEET OF ROOF EDGE. DO NOT PENETRATE EXISTING ROOFING MEMBRANE EXCEPT IN AREAS IDENTIFIED IN THIS DOCUMENT SET. MAINTAIN FALL PROTECTION FOR DURATION OF WORK.

KEYNOTES - ROOF REMOVALS	
KEYNOTE	NOTE
1	AREA OF REMOVALS FOR DUCT PENETRATIONS. REFER TO MECHANICAL DRAWINGS. REFER TO STRUCTURAL FOR REINFORCEMENT OF DECK OPENINGS.
2	REMOVE ROOFING TO DECK FOR PLACEMENT OF MECHANICAL EQUIPMENT CURB AND/OR DUCTING SUPPORT. REFER TO MECHANICAL (AND STRUCTURAL) DRAWINGS FOR FINAL LOCATIONS. REMOVE DECK FOR CONDUIT OR PIPING PENETRATION.
3	REMOVE EXISTING MECHANICAL EQUIPMENT, DUCTING, AND SUPPORT CURBING. (REFER TO (H-CONTRACT FOR EXTENTS) PROTECT ROOF PRIOR TO PATCHING. REFER TO STRUCTURAL FOR DECK INFILL.
4	REMOVE EXISTING GRAVEL STOP COPING. COORDINATE EXTENT OF REMOVALS WITH CONSTRUCTION OF ADDITION. PROTECT MEMBRANE AND PREVENT MOISTURE INFILTRATION FOR DURATION OF WORK.
5	REMOVE EXISTING ROOF HATCH AND GUARD RAILS. REFER TO STRUCTURAL FOR DECK INFILL.
6	EXISTING MECHANICAL EQUIPMENT TO REMAIN. REMOVE EXISTING MECHANICAL DUCTING. PENETRATION TO REMAIN FOR REUSE (REFER TO (H-CONTRACT FOR EXTENTS).
7	
8	

KEYNOTES SCHEDULE ONLY INCLUDES NOTES FOUND ON THIS SHEET.

REMOVALS SYMBOLS LEGEND	
	ELEVATION
	PHOTO # REFERENCE
	DENOTES APPROXIMATE EXTENT OF ROOF REMOVALS. VERIFY EXTENTS W/ STRUCTURAL DWGS, H-, P-, AND E- CONTRACTS.
	R.C. APPROXIMATE LOCATION OF ROOF CUT.



CONSULTANT

bell & spina
ARCHITECTS

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CONTRACT:

CONSTRUCTION

TITLE:
RENOVATE ARMORY

LOCATION:
STATE ARMORY
2 QUINCY PLACE
YONKERS, NY

CLIENT:
DIVISION OF MILITARY AND NAVAL AFFAIRS

MARK	DATE	DESCRIPTION
3	09/16/2026	ADDENDUM 1
2	07/20/2026	PERMIT AMENDMENT / BID SET
1	03/11/2026	PERMIT AMENDMENT SET
	11/24/2025	PERMIT SET

PROJECT NUMBER: 47477-C

DESIGNED BY: GBT/JLP

DRAWN BY: GBT

FIELD CHECK: JLP

APPROVED: DKA

SHEET TITLE:

ROOF REMOVALS PLAN

DRAWING NUMBER:

AD-103



3 PHOTO 1 - WEST OH DOOR
SCALE: N.T.S.



4 PHOTO 2 - WEST MECH DOOR
SCALE: N.T.S.



5 PHOTO 3 - SOUTH STAIRS
SCALE: N.T.S.



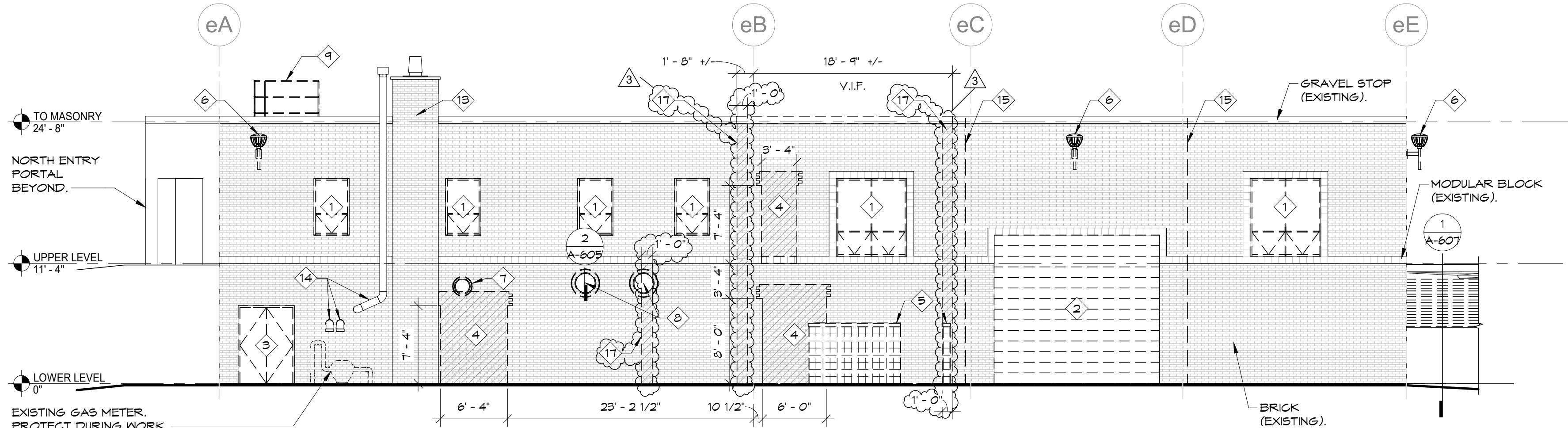
6 PHOTO 4 - SOUTH WINDOWS
SCALE: N.T.S.



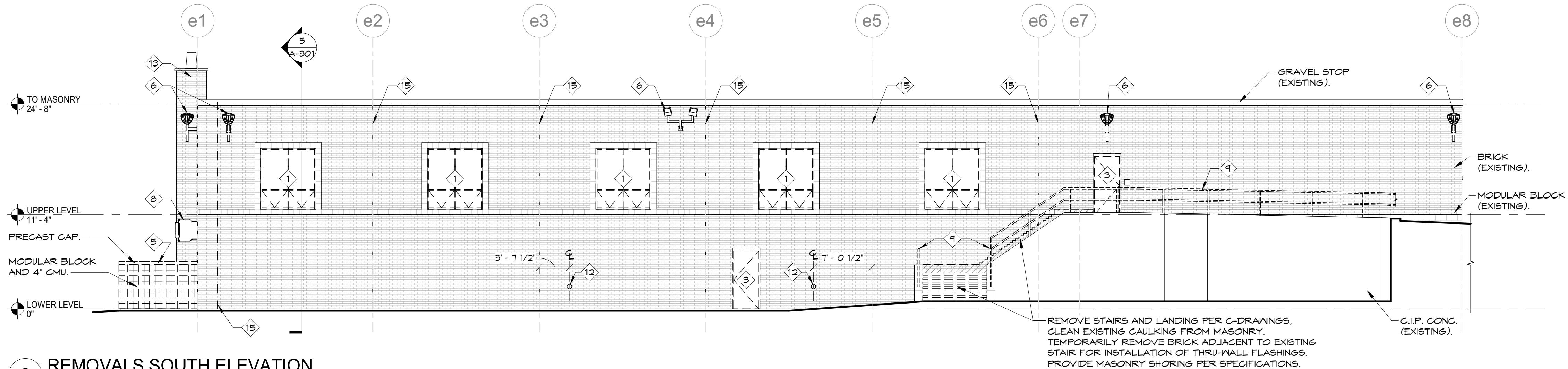
7 PHOTO 5 - WEST PATIO ENCLOSURE
SCALE: N.T.S.

KEYNOTES - EXTERIOR REMOVALS	
NUMBER	KEYNOTE
1	REMOVE WINDOW, TRIM, INTERIOR WINDOW STOOL AND WINDOW RECEIVERS. REFER TO HAZARD DRAWINGS FOR ACM REMOVALS. PREPARE OPENING TO RECEIVE WINDOW INFILL.
2	REMOVE OVERHEAD DOOR, JAMB ANGLES, SHROUD, MOTORS AND ASSOCIATED HARDWARE.
3	REMOVE DOOR AND FRAME, OPENING TO REMAIN.
4	REMOVE EXTERIOR WALL TO EXTENTS INDICATED. PROVIDE SHORING AS REQUIRED TO MAINTAIN STABILITY. SAW CUT CMU AND BRICK, REMOVE MEMBRANES AT PERIMETER AND PREPARE TO REFLASH. SALVAGE BRICK IN GOOD CONDITION, WITH NO CRACKS OR CHIPS.
5	REMOVE EXTERIOR PATIO SLAB, BRICK, CMU WALLS AND ASSOCIATED FOUNDATIONS.
6	REMOVE EXTERIOR LIGHT FIXTURES. PROTECT EXISTING JUNCTION BOXES AND WIRING. REFER TO E-CONTRACT.
7	REMOVE EXISTING EXHAUST FAN AND DUCTING WITHIN EXISTING WOMEN'S LOCKER ROOM. REFER TO H-CONTRACT.
8	REMOVE EXISTING EXHAUST FAN. REMOVE DUCTING. REFER TO MECHANICAL DRAWINGS.
9	REMOVE EXISTING HAND AND GUARD RAILS.
12	CORE MASONRY FOR PASS-THRU CABLE SLEEVE. REFER TO DETAIL 1/A-502. VERIFY FINAL LOCATION W/ DIRECTOR'S REPRESENTATIVE PRIOR TO WORK.
13	EXISTING MASONRY CHIMNEY TO REMAIN.
14	EXISTING MECHANICAL EQUIPMENT TO REMAIN. REFER TO H-CONTRACT.
15	EXISTING VERTICAL CONTROL JOINT. GC TO REMOVE SEALANT AND BACKER AT ALL EXTERIOR VERTICAL CONTROL JOINTS AND PREP FOR REPACKING/RESEALING INCLUDING ANY JOINTS NOT SPECIFICALLY INDICATED IN ELEVATION.
16	REMOVE GRAVEL STOP AT LOCATION OF ADDITION. GC IS RESPONSIBLE FOR PREVENTING WATER INFILTRATION FOR THE DURATION OF WORK. SAW CUT AND REMOVE BRICK MASONRY VENEER TO EXTENTS INDICATED. VERIFY LOCATION OF REMOVALS BASED ON LAYOUT OF ELEVATOR TOWER ADDITION.
17	

1 KEYNOTES SCHEDULE ONLY INCLUDES NOTES FOUND ON THIS SHEET.



1 REMOVALS WEST ELEVATION
SCALE: 1/8" = 1'-0"



2 REMOVALS SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

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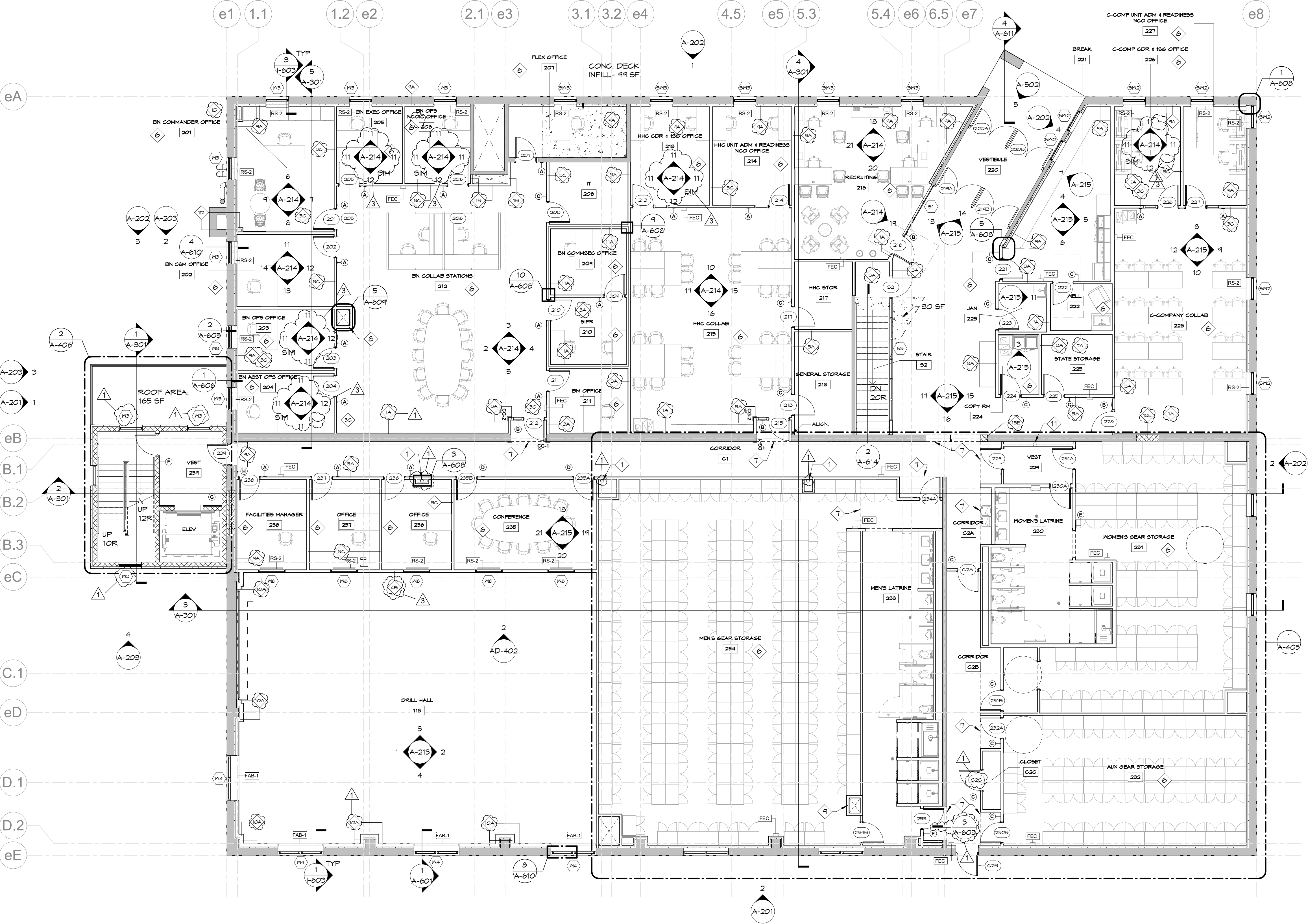
EXTERIOR ELEVATIONS
- REMOVALS

NOTED PLAN - GENERAL NOTES:

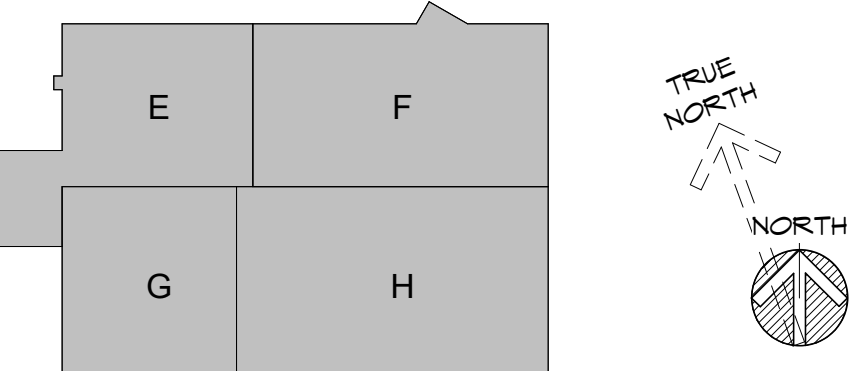
1. PRIOR TO ORDERING MATERIALS AND THE COMMENCEMENT OF WORK, FIELD VERIFY EXISTING CONDITIONS & DIMENSIONS. NOTIFY THE DIRECTOR'S REPRESENTATIVE OF DISCREPANCIES OR VARIATIONS FROM CONDITIONS SHOWN ON THE DRAWINGS WHICH MAY INHIBIT THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. ALL EXITWAYS AND PATHS OF TRAVEL OF THE WORK AREA FLOOR LEVELS SHALL BE CONTINUOUSLY MAINTAINED TO BE FREE FROM OBSTRUCTIONS IN THE EVENT OF AN EMERGENCY EVACUATION.
3. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FIRE STOPPING PER CODE. FIRE STOPPING METHODS TO BE UL APPROVED. ALL PROVIDED PENETRATIONS THROUGH FIRE RATED WALLS AND SLABS TO BE FIRESTOPPED INCLUDING, BUT NOT LIMITED TO: ELECTRICAL WORK, PIPING AND DUCTWORK. SPECIAL CARE SHALL BE TAKEN TO AVOID GAPS AND VOIDS IN PROVIDED FIRESTOPPING.
4. EXCEPT WHERE CONCEALED BY PROVIDED FINISHES, PATCH ALL FASTENER HOLES RESULTING FROM REMOVAL OF PARTITIONS, LIGHT FIXTURES, SURFACE RUN CONDUIT AND RELATED BOXES, ETC.
5. AFTER REMOVALS OF CEILING SYSTEMS AND CEILING-RELATED ITEMS, CLEAN ALL REMAINING NEAR CEILING ITEMS SUCH AS CONDUIT, WIRING, BUSWAYS, PIPING, DUCTWORK AND ALL CONCRETE SURFACES PER SPECIFICATION SECTION 01320.01.
6. UNLESS DOOR IS TO BE PLACED IN AN EXISTING OPENING, OR UNLESS DIMENSIONED OTHERWISE, ALL DOOR HINGE JAMBS ARE TO BE LOCATED A MINIMUM OF 4" FROM THE FINISHED FACE OF ADJACENT WALLS.

KEYNOTES - FLOOR PLAN	
NUMBER	NOTE
1	ROUTED ROOF LEADERS, REFER TO P-CONTRACT.
2	EXCEPT FOR PLUMBING FIXTURES AND BUILT-IN CASEWORK AND UNLESS NOTED OTHERWISE, FIXTURES, FURNITURE AND EQUIPMENT ARE DEPICTED FOR INFORMATION, ONLY. PROVIDED BY TENANT, NOT IN CONTRACT.
3	LINE OF FLOOR OR BULKHEAD ABOVE.
4	2-HOUR RATED DUCT SHAFT. FIRESTOPPING REQUIRED AT ALL JOINTS AND PENETRATIONS.
5	1-HOUR RATED DUCT SHAFT. FIRESTOPPING REQUIRED AT ALL JOINTS AND PENETRATIONS.
6	EXISTING ROOF LEADER TO REMAIN. REFER TO P-CONTRACT.

KEYNOTES SCHEDULE ONLY INCLUDES NOTES FOUND ON THIS SHEET.



PLAN LEGEND	
SA	STOREFRONT TAG. SEE 6 / A-502 FOR ELEVATIONS.
TR	TRANSACTION WINDOW TAG. SEE 8 / A-502 FOR ELEVATIONS.
W	WINDOW TAG. SEE 7 / A-502 FOR ELEVATIONS AND A-501 FOR SCHEDULE.
PA	PARTITION TYPE. SEE 3 / A-501 FOR LEGEND.
PH	PARTITION HEIGHT. SEE 2 / A-501 FOR LEGEND.
S	SIGNAGE TAG. SEE 6 / I-603 FOR LEGEND.
D	DOOR TAG. SEE A-501 FOR SCHEDULE.
F	FINISH TAG. SEE I-602 FOR SCHEDULE.
E	SPECIALTY EQUIPMENT TAG. SEE I-603 FOR SCHEDULE.
DI	DENOTES FLOOR DECK INFILL. SEE STRUCTURAL.
PL	- PHOTO LOCATION
DT	- DETAIL TAG
ST	- SECTION TAG
EL	- ELEVATION TAG



1 NOTED PLAN - UPPER LEVEL
SCALE: 1/8" = 1'-0"

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OVERALL UPPER LEVEL PLAN

GENERAL ROOFING NOTES:

- A. THE MORE STRINGENT ARCHITECTURAL DETAILS SHOWN IN THESE DOCUMENTS SHALL GOVERN OVER MANUFACTURER'S DETAILS, UNLESS SUBMITTED AND REVIEWED FOR APPROVAL.
- B. DIMENSIONS GIVEN ARE FOR REFERENCE ONLY. FIELD VERIFYING THE EXISTING BUILDING EXTENT AND MEASUREMENTS IS SOLELY THE CONTRACTOR'S RESPONSIBILITY.
- C. ALL ROOF PENETRATIONS ARE TO BE FLASHED, WHETHER SHOWN OR NOT; ITEMS ARE SHOWN IN THEIR GENERAL LOCATIONS.
- D. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND CONFIRM THAT CONDITIONS WILL INTERFERE WITH DETAILS. ALL DEVIATIONS WILL BE BROUGHT TO THE ATTENTION OF THE DIRECTOR'S REPRESENTATIVE IMMEDIATELY.
- E. WATER DAMAGE NOTE:
THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE BUILDING DRY DURING ALL ROOFING OPERATIONS. ANY WATER OR DEBRIS ENTERING THE BUILDING CAUSED BY ROOFING WORK SHALL BE CLEANED UP BY THE CONTRACTOR. ANY DAMAGE TO THE BUILDING OR ITS CONTENTS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE DIRECTOR'S REPRESENTATIVE. IF WORK AFFECTS THE INTERIOR OF THE BUILDING, EXTRAORDINARY PRECAUTIONS SHALL BE TAKEN TO PROTECT THE BUILDING AND ITS CONTENTS.
- F. PROVIDE TRAFFIC / WALKWAY PADS AT ALL ROOF ACCESS POINTS WHERE INDICATED ON THE DRAWINGS.

- G. MECHANICAL
1. COORDINATE ALL MECHANICAL WORK ASSOCIATED WITH ROOF EXHAUST FANS AND INTERIOR SPACES WITH THE H-CONTRACTOR AND DIRECTOR'S REPRESENTATIVE.
2. COORDINATE ALL ELECTRICAL, GAS OR MECHANICAL UNIT ETC. SHUTDOWNS WITH H-CONTRACTORS AND DIRECTOR'S REPRESENTATIVE.
- H. ELECTRICAL
1. COORDINATE ALL ELECTRICAL WORK ASSOCIATED WITH ROOF EQUIPMENT, LIGHTING AND POWER WITH THE E-CONTRACTOR.
- I. INSULATION
1. INSTALL TAPERED INSULATION AND LIGHTWEIGHT INSULATING CONCRETE (LOW DENSITY CONCRETE) MAJOR CRICKETS, THEN INSTALL PRIMARY (FLAT STOCK) LAYERS, STAGGER JOINTS BETWEEN INSULATION LAYERS.
2. PROVIDE CRICKETS AT HIGH SIDE OF ALL ROOFTOP EQUIPMENT LARGER THAN 2'-0" WIDE OR AT ANY DOWNHILL WALL PROJECTION WHICH MAY POCKET WATER.
3. PROVIDE PROTECTION TO THE INTERIOR SPACES DURING THE INSTALLATION TO PREVENT DAMAGE OR SPILLAGE OF LOW DENSITY CONCRETE (LIGHTWEIGHT INSULATING CONCRETE).
- J. ROOF DRAINS
1. ROOF DRAIN AND INTERIOR STORM PIPING ARE TO BE PROVIDED AS PART OF THEIR CONTRACTOR'S WORK.

- K. WOOD
1. ALL WOOD OR PLYWOOD INSTALLED IN DIRECT CONTACT WITH MASONRY OR CONCRETE, IS TO BE OF PRESSURE TREATED MATERIALS. ALL OTHER LUMBER TO BE NON-TREATED UNLESS NOTED OTHERWISE.
2. ALL BLOCKING TO BE SOLID - NO VOIDS OR 'SKIP-FRAMING' ARE PERMITTED. IF WOOD DIMENSIONS ARE NOT GIVEN, STACKED WOOD HEIGHT (3 BOARDS OR LESS) SHALL BE 2x6 MINIMUM.
3. ALL WOOD TO BE ANCHORED AS SPECIFIED, OR SHOWN. GENERALLY, FASTENER SPACING, NAILS OR SCREWS, NOT MORE THAN 12" O.C. AND ANCHOR BOLTS - 3/8" O.D. MIN., NOT MORE THAN 36" O.C. AND FROM ENDS OF BOARDS - 9" MAXIMUM. SEE "TYPICAL BLOCKING FASTENING DETAIL" FOR ADDITIONAL INFORMATION.
- L. FASTENERS
1. ALL FASTENERS TO BE NON-RUSTING TYPE (COPPER, HOT DIPPED, STAINLESS STEEL, CADMIUM PLATED) UNLESS NOTED OTHERWISE.
2. ALL NAILS SHALL BE SPIRAL OR RING-SHANKED.
3. ALL FASTENERS (NAILS, SCREWS, BOLTS, ETC.) FASTENING OR PENETRATING PRESSURE-TREATED WOOD ARE TO BE OF AUSTENITIC STAINLESS STEEL, TYPE A304 OR A316.
4. FASTENERS IN METAL FLASHINGS - ALL TO BE COMPATIBLE WITH METAL USED; FASTENERS ALL OF STAINLESS STEEL UNLESS NOTED OTHERWISE.
5. FASTENER SPACING, SCREWS, NOT MORE THAN 9" O.C., NAILS USED FOR CLEATING - 3" O.C. UNLESS NOTED OTHERWISE FROM ENDS OF UNITS - 3" MAXIMUM.
6. POP-RIVETS IN METAL FLASHINGS/COPINGS ARE NOT PERMITTED.

- M. ROOFING MISCELLANEOUS
1. ANY METAL COPING OR FASCIA OVERLAPS, FOLDS, OR SEAMS ARE TO BE SOLIDLY BEDDED WITH SEALANT BETWEEN PIECES OF METAL.
2. ALL FLASHINGS, COPINGS OR ROOF EDGES ETC. SHALL HAVE PREFABRICATED CORNERS. NO CAULKED CORNERS WILL BE ALLOWED. THE INTENT IS FOR METAL FLASHING HEIGHTS TO ALIGN.
- N. BLOCKING CONSIDERED FOR REUSE SHALL BE CHECKED FOR ADEQUATE ANCHORAGE VIA FULL TEST. PROVIDE ADDITIONAL FASTENERS, IF REQUIRED TO ASSURE SOLID ANCHORING. INSTALL ADDITIONAL BLOCKING OVER THE EXISTING AS REQUIRED TO BRING HEIGHT INTO THE SAME PLANE WITH INSULATION HEIGHT. REFER TO NOTE 5 IN DESIGN KIND UPLIFT NOTES FOR PERFORMANCE REQUIREMENTS.

GENERAL ROOFING NOTES:

EXISTING ROOF ASSEMBLY:

MFR: FIRESTONE (NOW ELEVATE)
DATE INSTALLED: 2015
WARRANTY: 20 YEAR NDL WARRANTY - EXPIRES 2035
SEE SPECIFICATIONS FOR WARRANTY CERTIFICATE

- COMPONENTS OF ROOF ASSEMBLY (BASED OFF OF ROOF CUTS, 2019):
- 0.090" EPDM SINGLE PLY MEMBRANE, FULLY ADHERED TO;
 - 1/2" GYPSUM COVER BOARD, FULLY ADHERED TO;
 - +/- 2" POLYISOCYANURATE INSULATION, FULLY ADHERED TO;
 - 1/2" POLYISOCYANURATE INSULATION, FULLY ADHERED TO;
 - VAPOR RETARDER, FULLY ADHERED TO;
 - 1/2" GYPSUM UNDERLAYMENT BOARD, MECHANICALLY FASTENED TO;
 - STEEL DECK

EQUIPMENT SUPPORTS:

DUCT AND PIPE SUPPORTS ARE LOCATED AT 6'-0" O.C. TYPICAL. REFER TO M.E.P. DRAWINGS FOR DUCT, PIPING AND CONDUIT LAYOUT REQUIRING SUPPORTS.

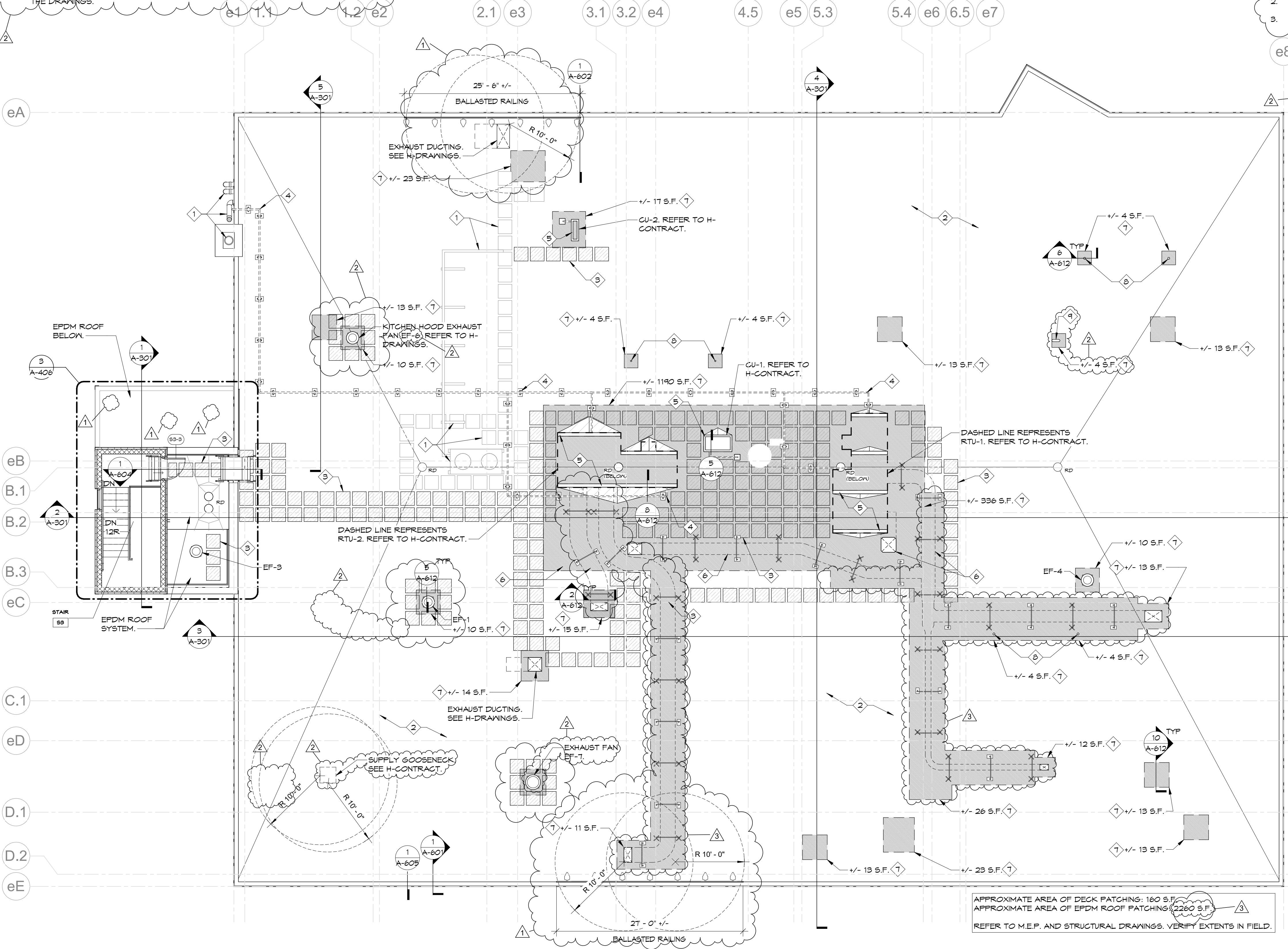
APPROXIMATE DUCT AND PIPING/CONDUIT SUPPORT QUANTITIES:
BALLASTED DUCT SUPPORT: 16
ANCHORED DUCT SUPPORT: 19
PIPE/CONDUIT SUPPORT: 31

KEYNOTES - ROOF

NUMBER	NOTE
1	EXISTING ROOFTOP EQUIPMENT TO REMAIN.
2	EXISTING EPDM MEMBRANE. REFER TO GENERAL ROOFING NOTES AND SPECIFICATIONS FOR WARRANTY INFORMATION.
3	PROVIDE TYPE 1 WALKWAY PADS, TYP.
4	NATURAL GAS PIPING ON PIPE SUPPORTS. TYP. SEE P-DRAWINGS. PIPING TO BE PAINTED BY H-CONTRACTOR. REFER TO DETAIL 2/A-612.
5	EQUIPMENT CURBS, TYP. REFER TO MEP FOR EQUIPMENT SIZES.
6	DASHED LINES REPRESENT INSULATED ROOFTOP DUCTING. REFER TO H-CONTRACT.
7	AREA OF ROOF AND/OR DECK PATCHING. SEE DETAIL 10/A-612.
8	PLUMBING VENT. SEE P-DRAWINGS.
9	GOOSENECK MECHANICAL VENT. SEE H-DRAWINGS.

ROOF GRAPHIC SYMBOLS LEGEND

- #/A-#### - PHOTO LOCATION
- - - - - DETAIL TAG
- - - - - SECTION TAG
- - - - - ELEVATION TAG
- RD - ROOF DRAIN
- - - - - BALLASTED DUCT SUPPORT
- X-X - ANCHORED DUCT SUPPORT
- - - - - BALLASTED PIPE SUPPORT
- - - - - SLOPE TO DRAIN PROVIDED BY SLOPED STRUCTURAL DECK
- - - - - SLOPE TO DRAIN PROVIDED BY TAPERED INSULATION
- - - - - AREA OF ROOF PATCHING.
- - - - - CRICKET
- - - - - WALKWAY PAD (TYPE 1)
- - - - - OUTLINE



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ROOF PLAN

DRAWING NUMBER:

A-105

RCP SYMBOLS LEGEND					
	ROUND DOWNLIGHT		PLASTIC LAMINATE ACOUSTIC FOLDING DOOR ENCLOSURE		SUSPENDED DRYWALL SYSTEM
	SURFACE MOUNTED LIGHT		HIGH BAY LIGHT FIXTURES		SUSPENDED ACOUSTICAL CEILING SYSTEM
	LINEAR PENDANT LIGHT		CYLINDER PENDANT LIGHT		SUPPLY AIR GRILLE
	LINEAR WALL MOUNT LIGHT		EXHAUST FAN		EXPOSED DUCT
	2x2 TROFFER LIGHT		RETURN AIR GRILLE		CEILING TYPE TAG
	SQUARE DOWNLIGHT		ACOUSTICAL GYPSUM PANEL CEILINGS		CEILING FINISH TAG
	RECESSED PROJECTION				CEILING HEIGHT ABOVE FINISHED FLOOR
	PROJECTOR				
					NOTE: SPRINKLERS AND EXIT SIGNS ARE SHOWN FOR REFERENCE ONLY. REFER TO H-, P- AND E-DRAWINGS, AND PROJECT MANUAL FOR FINAL LOCATIONS, PIPING, HAZARD INFORMATION, POWER, SPECIFICATIONS.

GENERAL CEILING NOTES:

APPLICABILITY: THESE GENERAL NOTES APPLY TO BOTH NEW CONSTRUCTION AND EXISTING SPACES IMPACTED BY THE WORK. THEY GOVERN THE ENTIRE SCOPE OF CEILING-RELATED WORK ACROSS THE PROJECT, REGARDLESS OF THE LOCATION OR HOW THE WORK IS REFLECTED WITHIN THE CONTRACT DOCUMENTS.

CEILING TYPE SCHEDULES: THE CEILING TYPE SCHEDULES PROVIDE A GENERAL OVERVIEW OF THE INTENDED CEILING FINISHES FOR EACH SPACE LISTED. HOWEVER, THEY MAY NOT SPECIFY ALL FINISHES REQUIRED FOR COMPLETE EXECUTION. ADDITIONAL FINISH DETAILS ARE DOCUMENTED THROUGHOUT THE CONSTRUCTION DOCUMENTS, INCLUDING THE ROOM FINISH SCHEDULE AND OTHER RELATED DRAWINGS, WHICH SHOULD BE REVIEWED IN CONJUNCTION.

CLARIFICATIONS & CONFLICTS: IN CASE OF CONFLICTING INFORMATION WITHIN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL VERIFY THE INTENDED DESIGN WITH THE ARCHITECT BEFORE SUBMITTING BIDS. CLARIFICATIONS ISSUED AFTER BID SUBMISSION ARE NOT TO BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION.

EQUIPMENT & FIXTURE LAYOUT: ALL EQUIPMENT AND FIXTURES ARE TO BE POSITIONED ACCORDING TO THE REFLECTED CEILING PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER COORDINATION WITH OTHER TRADES.

DEMOLITION & ACCESS: REFER TO THE GENERAL DEMOLITION NOTES FOR INSTRUCTIONS REGARDING THE REMOVAL, REINSTALLATION, OR REPLACEMENT OF EXISTING CEILINGS TO FACILITATE ACCESS TO WORK ABOVE.

COORDINATION WITH OTHER TRADES: THE CEILING INSTALLER SHALL COORDINATE WITH ALL PRIME CONTRACTORS TO ENSURE THAT WORK INVOLVING CEILING-MOUNTED EQUIPMENT, FIXTURES, OR SYSTEMS IS COMPLETED ON SCHEDULE, PRIOR TO CEILING INSTALLATION, UNLESS SPECIFIED OTHERWISE IN THE APPROVED PROJECT SCHEDULE.

CONTINUITY OF CEILING TYPES: IN SPACES WITH CLOSETS, ALCOVES, OR SIMILAR AUXILIARY AREAS, CEILING FINISHES SHALL BE SEAMLESSLY INTEGRATED INTO THESE AREAS UNLESS EXPLICITLY INDICATED OTHERWISE.

CONTROL JOINTS: PROVIDE GAS CONTROL JOINTS IN ACCORDANCE WITH GA-216 AND ASTM C840. INSTALL CONTROL JOINTS AT A MAXIMUM SPACING OF 30'-0" O.C. IN CEILINGS AND LOCATIONS OF SEISMIC SEPARATIONS, EXPANSION JOINTS, SEISMIC SEPARATIONS, CHANGES IN CEILING PLANE, AND AS OTHERWISE REQUIRED BY THE GYPSUM ASSOCIATION.

FINISHES & PAINTING: GYPSUM BOARD CEILINGS, SOFFITS, AND BULKHEADS SHALL BE PAINTED UNLESS NOTED OTHERWISE.

ALL EXPOSED STRUCTURAL ELEMENTS AND MISCELLANEOUS METALS AT CEILINGS SHALL BE PAINTED UNLESS SPECIFIED OTHERWISE.

EXPOSED WOOD GROUND, BACKERS, FILLERS, SPACERS, AND OTHER COMPONENTS ASSOCIATED WITH EQUIPMENT OR ACCESSORY INSTALLATION SHALL BE FINISHED TO MATCH THE CEILING SURFACE UNLESS OTHERWISE INDICATED.

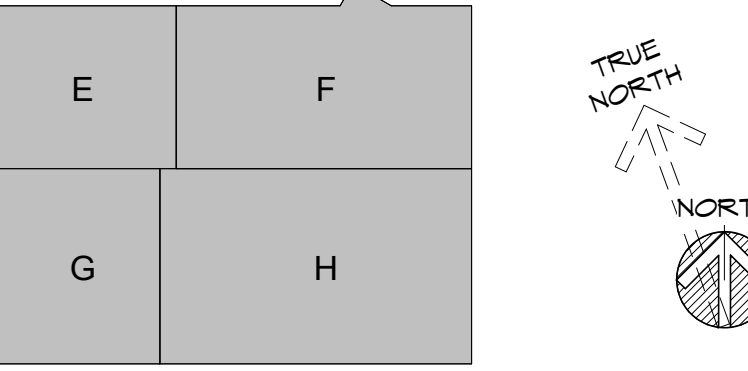
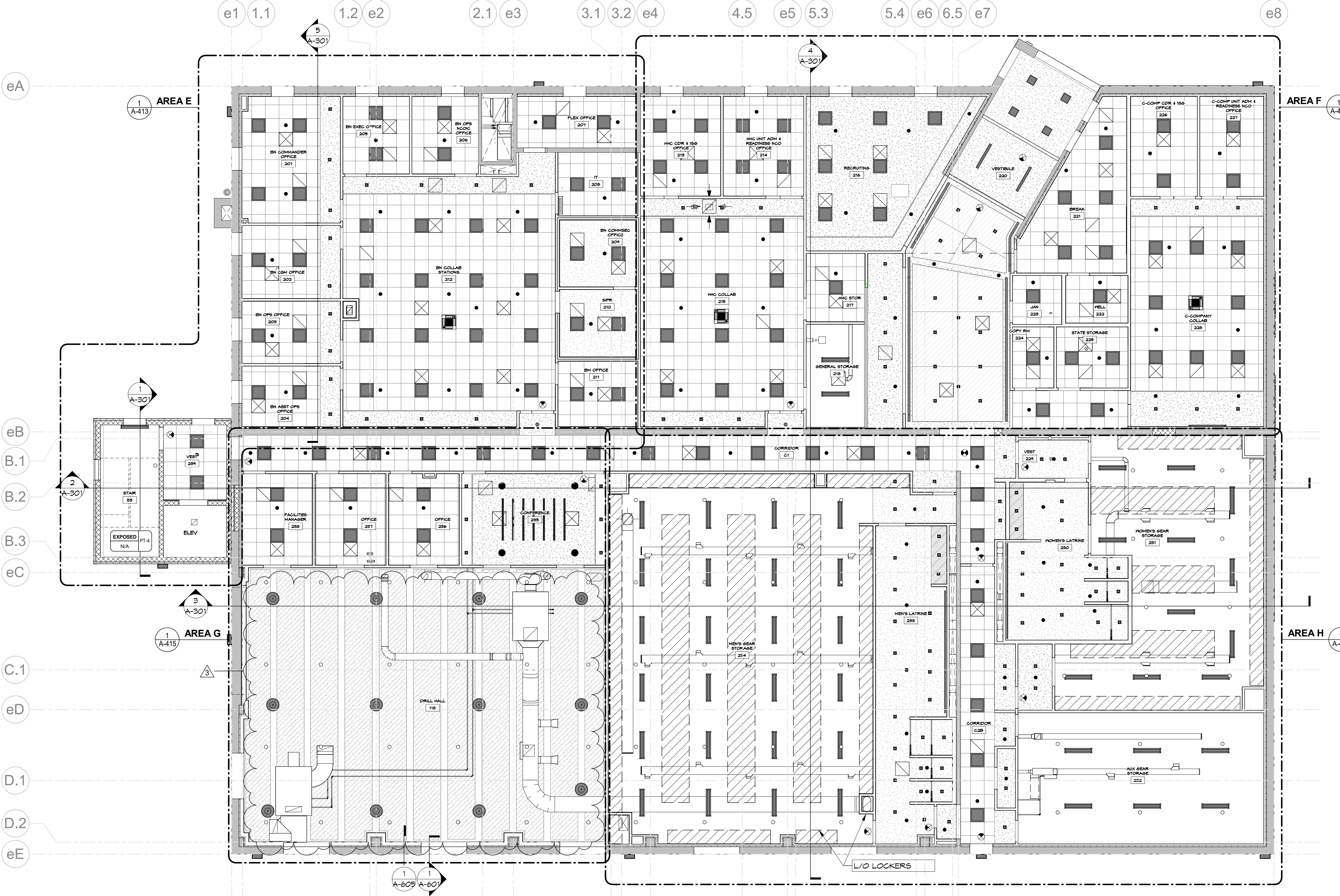
PIPING, CONDUITS, JUNCTION BOXES, AND SIMILAR ELEMENTS THAT ARE EXPOSED SHALL BE PAINTED TO MATCH THE CEILING UNLESS NOTED OTHERWISE.

ACCESS & MAINTENANCE: CEILINGS CONCEALING EQUIPMENT REQUIRING ACCESS SHALL INCORPORATE AN ACCESS PANEL OF APPROPRIATE SIZE AND CONFIGURATION, SUPPLIED BY THE CONTRACTOR RESPONSIBLE FOR THE EQUIPMENT AND INSTALLED FOR SUBSEQUENT HANDOVER TO THE GENERAL CONTRACTOR.

CEILING PENETRATIONS & FINISHES: IN CASES WHERE CEILING SURFACES OF DIFFERENT COLORS INTERSECT, ACCESS DOORS SHALL BE PAINTED TO MATCH THE CEILING UNLESS OTHERWISE SPECIFIED. HVAC GRILLES AND REGISTERS INSTALLED IN CEILINGS OF CONTRASTING COLORS SHALL BE PAINTED TO MATCH THE CEILING UNLESS DIRECTED OTHERWISE.

PERIMETER & EDGE CONDITIONS: WHERE PERIMETER MOLDING IS UNSUPPORTED BY WALLS OR OTHER RIGID STRUCTURES, PROVIDE EXTRUDED ALUMINUM PERIMETER TRIM, 6 INCHES IN HEIGHT, AS PER THE GRID MANUFACTURER'S STANDARD, UNLESS OTHERWISE INDICATED.

PANEL & EDGE FINISHES: EXPOSED EDGES OF ACOUSTICAL PANEL CEILING TILES SHALL BE FINISHED TO MATCH THEIR FACTORY SURFACE PER THE MANUFACTURER'S RECOMMENDATIONS OR AS APPROVED BY THE ARCHITECT.



1 UPPER LEVEL
SCALE: 1/8" = 1'-0"

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PROJECT NUMBER:	47477-C
DESIGNED BY:	GBT/JLP
DRAWN BY:	GBT
FIELD CHECK:	JLP
APPROVED:	DKA
SHEET TITLE:	

OVERALL UPPER LEVEL
RCP

DRAWING NUMBER:
A-122

CONSULTANT

bell & spina
ARCHITECTS

WARNING:

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CONSTRUCTION

TITLE:
RENOVATE ARMORY

LOCATION:
STATE ARMORY
2 QUINCY PLACE
YONKERS, NY

CLIENT:
DIVISION OF MILITARY AND NAVAL AFFAIRS

MARK	DATE	DESCRIPTION
3	09/16/2026	ADDENDUM 1
2	07/20/2026	PERMIT AMENDMENT / BID SET
1	03/11/2026	PERMIT AMENDMENT SET
	11/24/2025	PERMIT SET
PROJECT NUMBER:	47477-C	
DESIGNED BY:	GBT/JLP	
DRAWN BY:	GBT	
FIELD CHECK:	JLP	
APPROVED:	DKA	

EXTERIOR ELEVATIONS

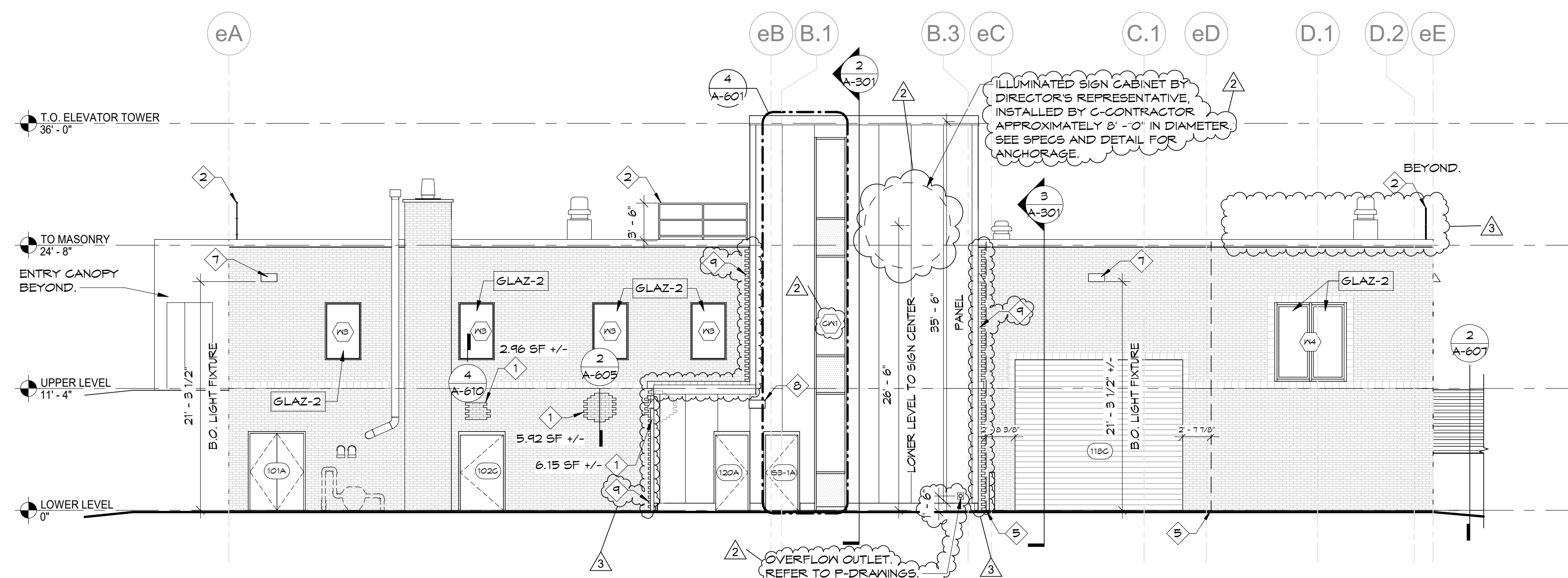
DRAWING NUMBER:
A-201

SHEET 56 OF 198

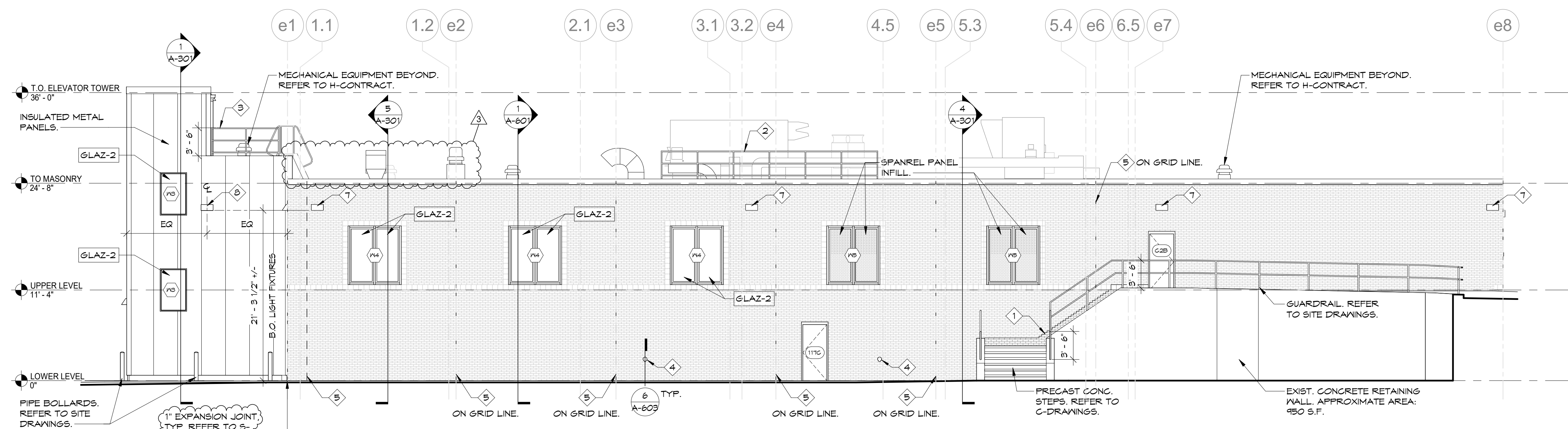
KEYNOTES - EXTERIOR	
NUMBER	NOTE
1	MASONRY PATCH. UTILIZE SALVAGED BRICK AND MORTAR TINTED TO MATCH EXISTING.
2	BALLASTED, GALVANIZED, PAINTED OSHA-COMPLIANT GUARD RAILS.
3	FIXED, GALVANIZED, PAINTED OSHA-COMPLIANT GUARD RAILS.
4	SLEEVED CABLE PASS-THROUGHS.
5	EXISTING VERTICAL CONTROL JOINT. REPACK AND SEAL, INCLUDING ALL CONTROL JOINTS NOT SPECIFICALLY INDICATED IN ELEVATIONS.
7	EXTERIOR LIGHTING WALL PACK LOCATION DEPENDENT ON EXISTING EXTERIOR LIGHTING JUNCTION BOX. SEE E-DRAWINGS AND SPECIFICATIONS.
8	EXTERIOR LIGHTING WALL PACK OVER INSULATED METAL PANELS, WHERE APPLICABLE. CENTER OVER DOOR AT THE ELEVATION INDICATED. SEE E-CONTRACT AND SPECIFICATIONS.
9	TOOTH IN SALVAGED BRICK AT LOCATION OF ADDITION TIE-IN. TOTAL AREA: APPROX. 60SF. SEE DETAIL 4/A-603.

KEYNOTES SCHEDULE ONLY INCLUDES NOTES FOUND ON THIS SHEET.

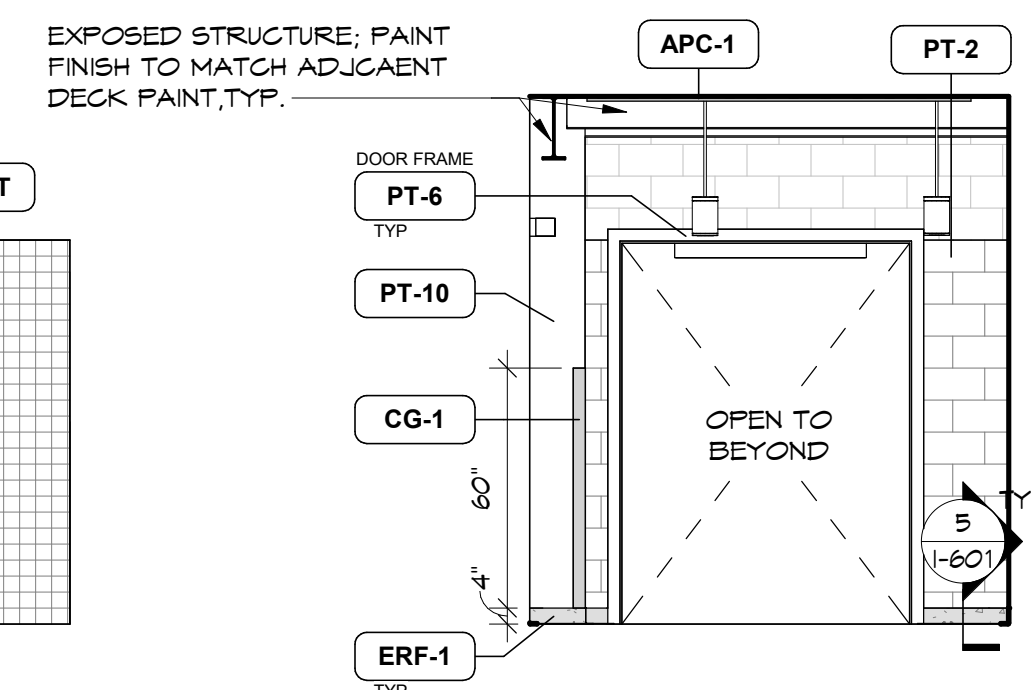
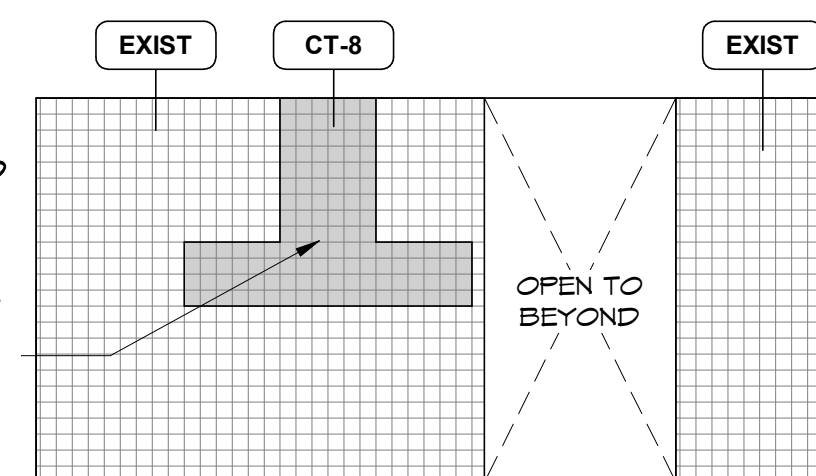
GLAZING NOTES: REFER TO SPECS.



1 WEST ELEVATION
SCALE : 1/8" = 1'-0"

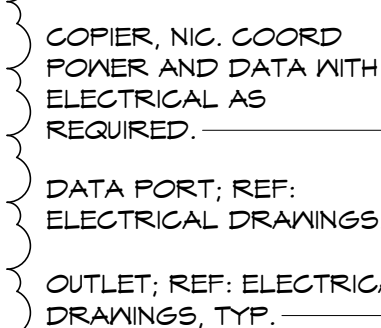


2 SOUTH ELEVATION
SCALE : 1/8" = 1'-0"

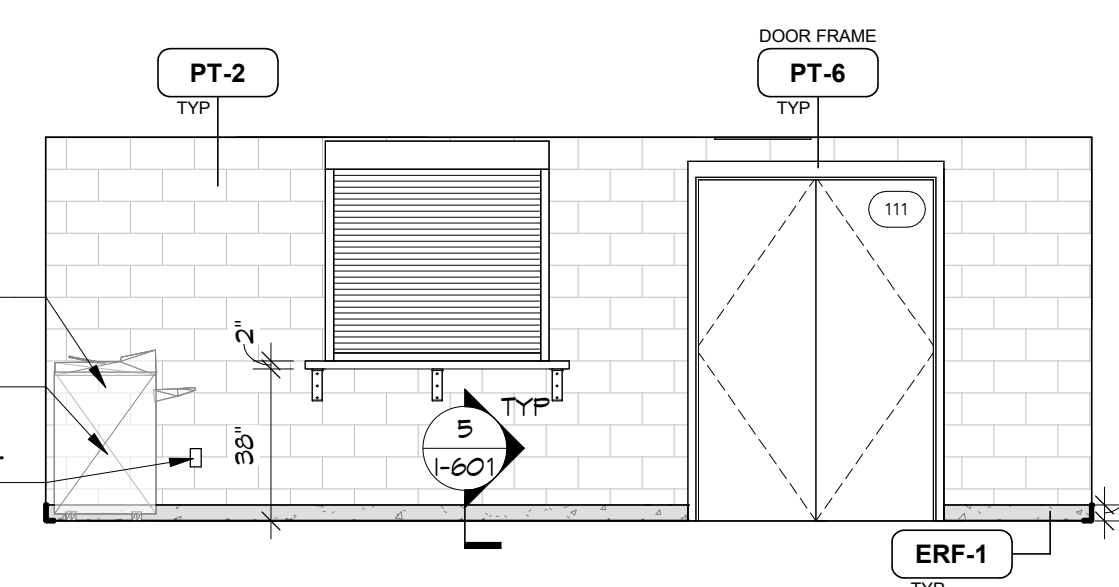
$$-1$$


2 KITCHEN 103A EAST
SCALE : 1/4" = 1'-0"

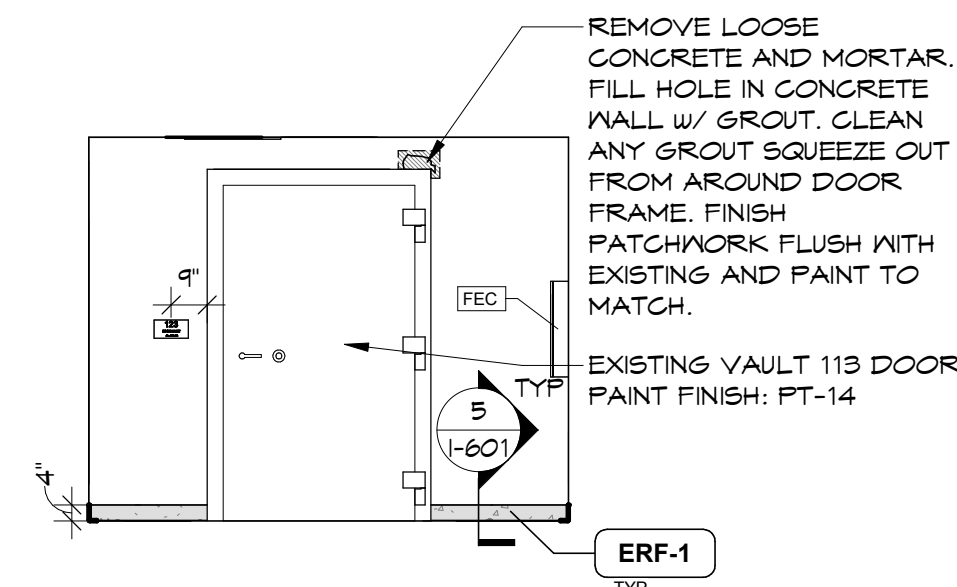
3 CORRIDOR C4 EAST
SCALE : 1/4" = 1'-0"



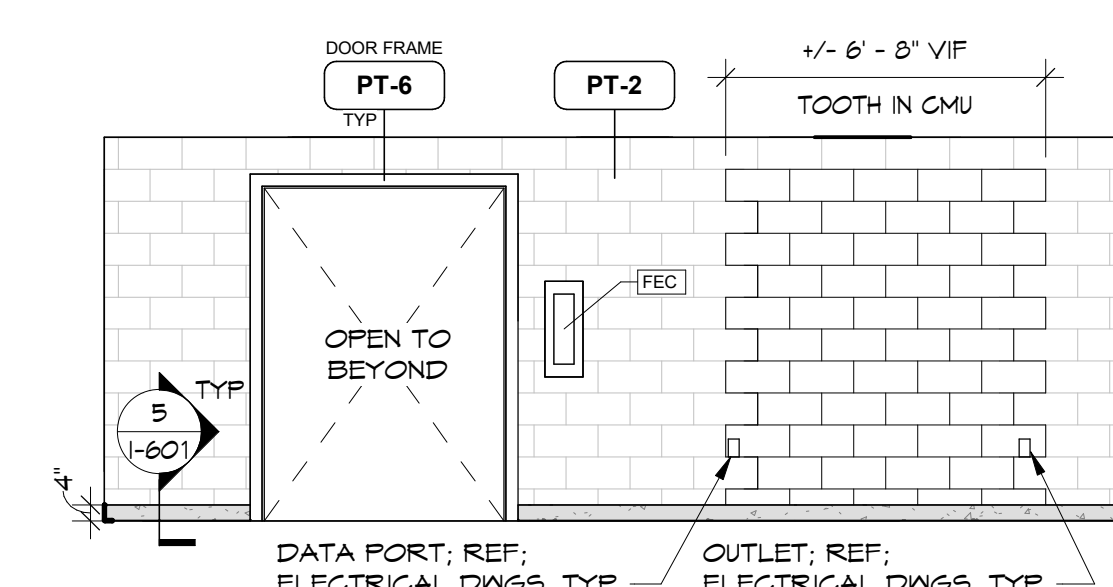
4 OFFICE 112 NORTH
SCALE : 1/4" = 1'-0"



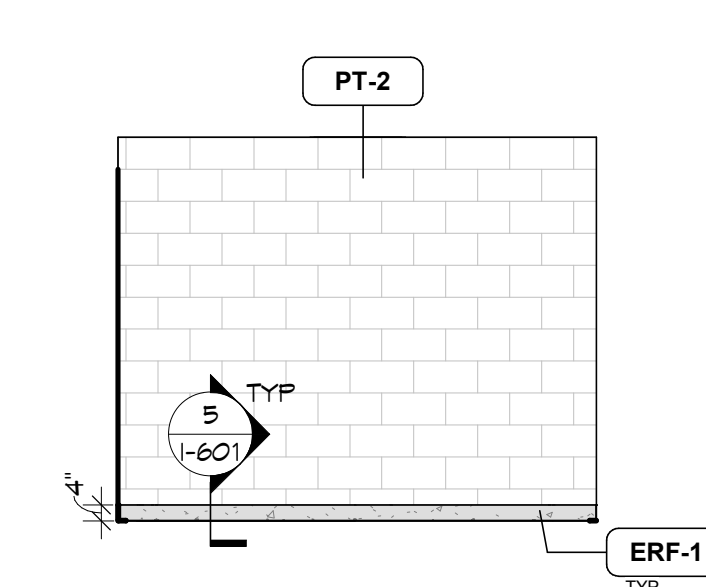
5 OFFICE 112 EAST
SCALE : 1/4" = 1'-0"



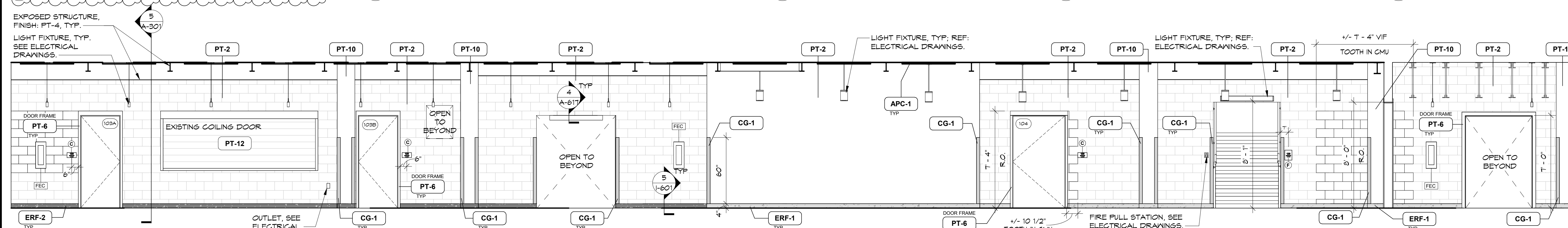
6 OFFICE 112 SOUTH
SCALE : 1/4" = 1'-0"



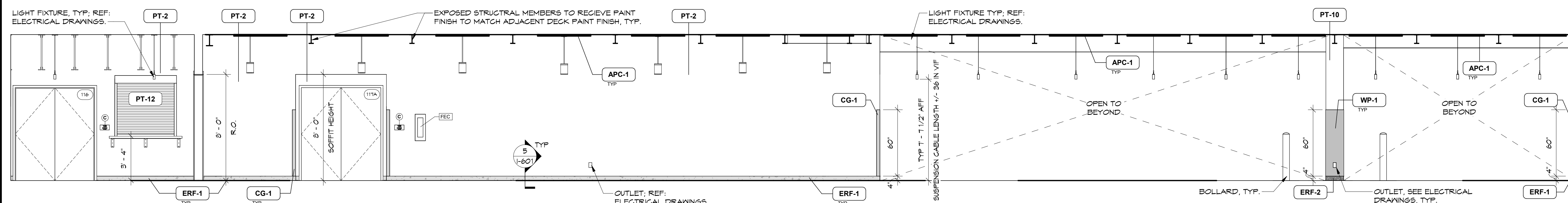
7 OFFICE 112 WEST
SCALE : 1/4" = 1'-0"



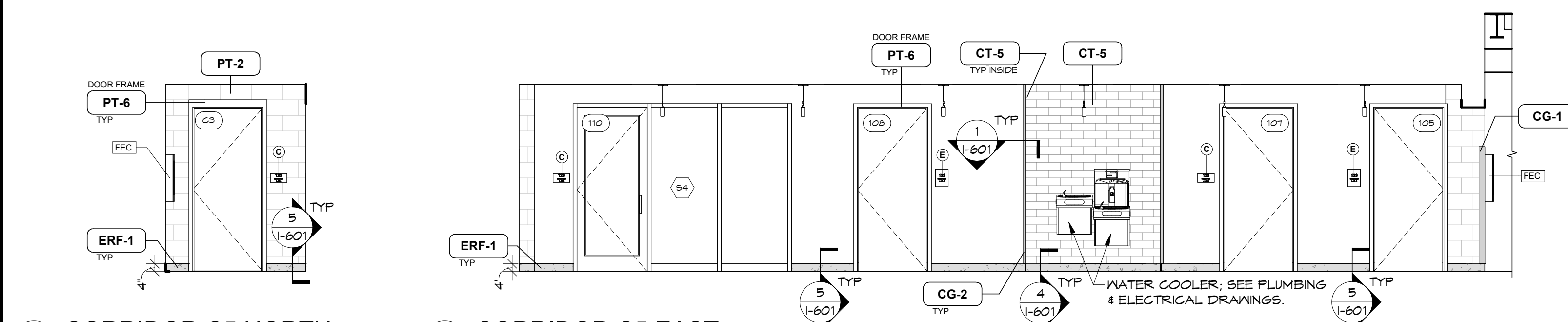
13 LOWER LEVEL ELEVATOR DOOR OPENING
SCALE : 1/4" = 1'-0"



8 CORRIDOR C4 NORTH
SCALE : 1/4" = 1'-0"

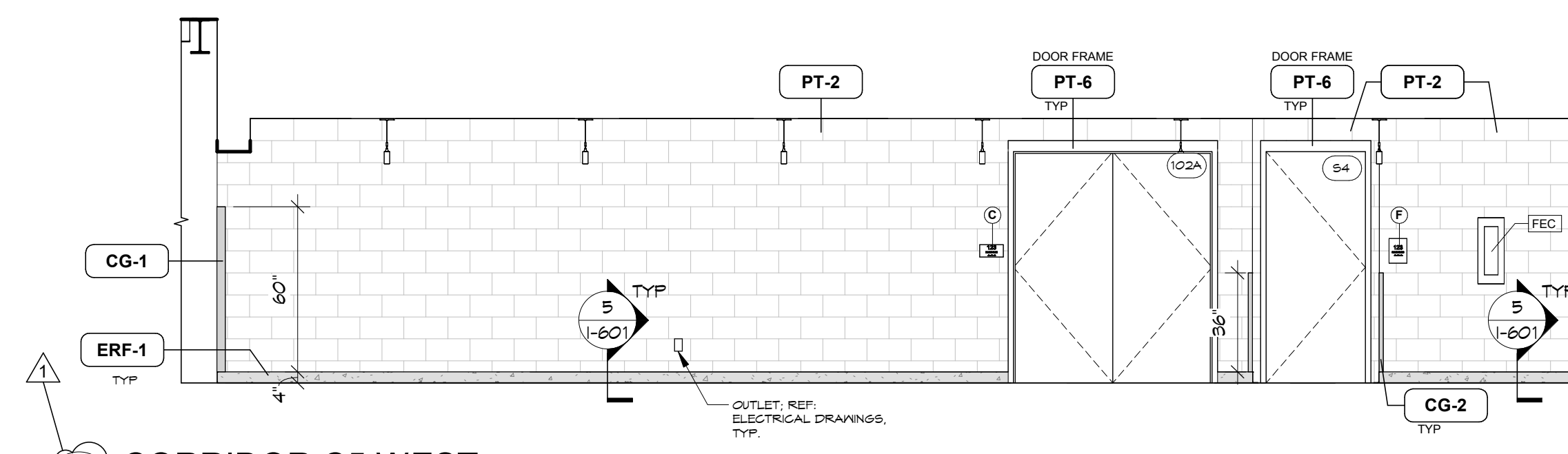


9 CORRIDOR C4 SOUTH
SCALE : 1/4" = 1'-0"



10 CORRIDOR C5 NORTH
SCALE : 1/4" = 1'-0"

11 CORRIDOR C5 EAST
SCALE : 1/4" = 1'-0"



12 CORRIDOR C5 WEST
SCALE: 1/4" = 1'-0"

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NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS
AND IS A CLASS 'A' MISDEMEANOR



REGISTRATION EXPIRES: 08/31

CONTRACT: CONSTRUCTION

TITLES

RENOVATE ARMORY

LOCATION

STATE ARMORY
2 QUINCY PLACE
YONKERS, NY

CLIENT

ON OF MILITARY AND NAVAL
AFFAIRS

3	09/16/2026	ADDENDUM 1
2	07/20/2026	PERMIT AMENDMENT / B SET
1	03/11/2026 11/24/2025	PERMIT AMENDMENT SET PERMIT SET
MARK	DATE	DESCRIPTION

PROJECT NUMBER: **47477-C**

DESIGNED BY:	LS
--------------	----

DRAWN BY:	LS/G
-----------	------

FIELD CHECK:	JLF
--------------	-----

APPROVED:	DKA
-----------	-----

SHEET TITLE:

INTERIOR ELEVATIONS LOWER LEVEL

DRAWING NUMBER:

A-211

CONSULTANT

bell & spina
ARCHITECTS

WARNING:
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CONSTRUCTION

CONTRACT:
TITLE: RENOVATE ARMORY
LOCATION: STATE ARMORY
2 QUINCY PLACE
YONKERS, NY
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

MARK	DATE	DESCRIPTION
3	09/16/2026	ADDENDUM 1
2	07/20/2026	PERMIT AMENDMENT / BID SET
1	03/11/2026	PERMIT AMENDMENT SET
	11/24/2025	PERMIT SET

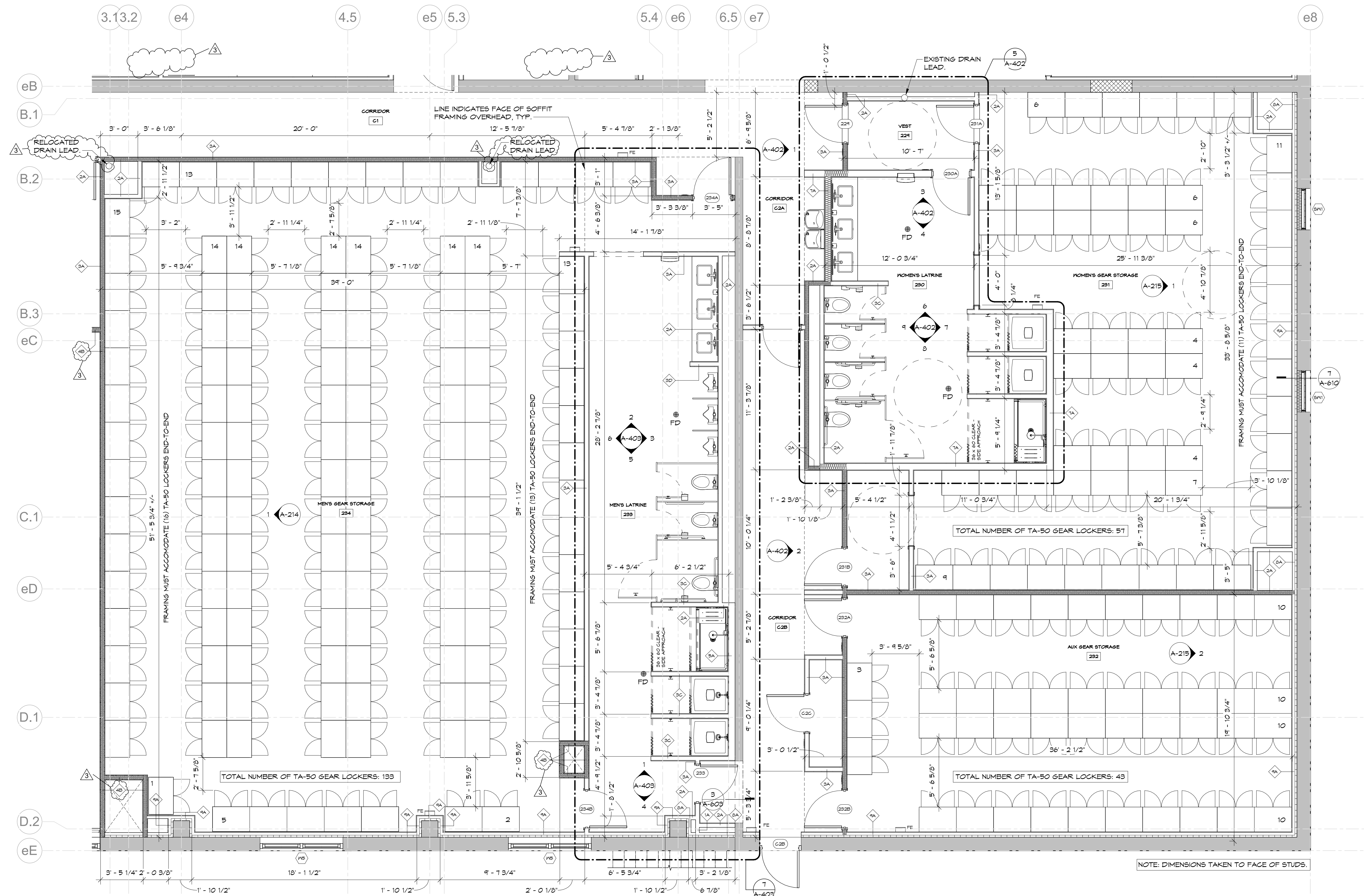
PROJECT NUMBER: 47477-C
DESIGNED BY: GBT/JLP
DRAWN BY: GBT
FIELD CHECK: JLP
APPROVED: DKA

SHEET TITLE:

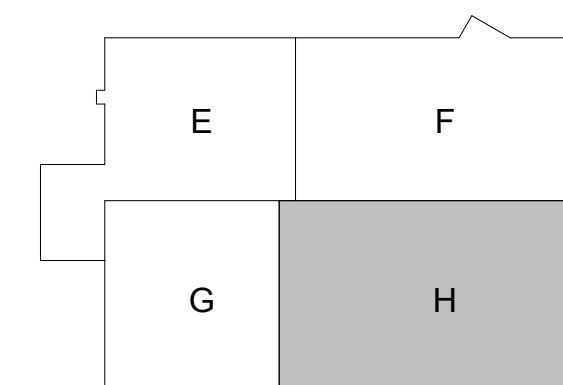
ENLARGED PLAN UPPER LEVEL AREA H

DRAWING NUMBER: A-405

SHEET 69 OF 198



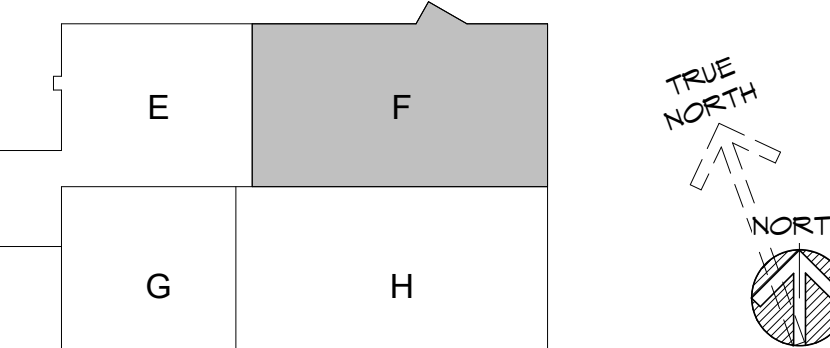
1 ENLARGED PLAN - UPPER LEVEL - AREA H
SCALE: 1/4" = 1'-0"



CEILING TYPE SCHEDULE	
TYPE	DESCRIPTION
ACT-1	2 FEET X 2 FEET ACOUSTIC CEILING TILE
ACT-2	2 FEET X 2 FEET ACOUSTIC CEILING TILE
APC-1	2 FEET X 8 FEET ACOUSTICAL CEILING PANEL, DIRECT MOUNT TO DECK
APC-2	FORMATIONS™ ACOUSTICAL AND ACCENT CLOUD KITS - DRYWALL
EXPOSED	EXPOSED METAL DECK PAINT FINISH, INCLUDING STRUCTURAL MEMBERS AND MEP EQUIPMENT.
GWB-1	5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM WITH PAINT FINISH.
GWB-2	5/8" GYPSUM CEILING, METAL STUD FRAMING, FINISH AS SCHEDULED.
GWB-3	5/8" MOISTURE RESISTANT GYPSUM BOARD ON METAL SUSPENSION SYSTEM WITH PAINT FINISH.
GWB-4	(2) LAYERS 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM WITH PAINT FINISH. (1-HR RATING)



1 ENLARGED CEILING PLAN - UPPER LEVEL - AREA F
SCALE : 1/4" = 1'-0"



CONSULTANT

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ARCHITECTS

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CONSTRUCTION

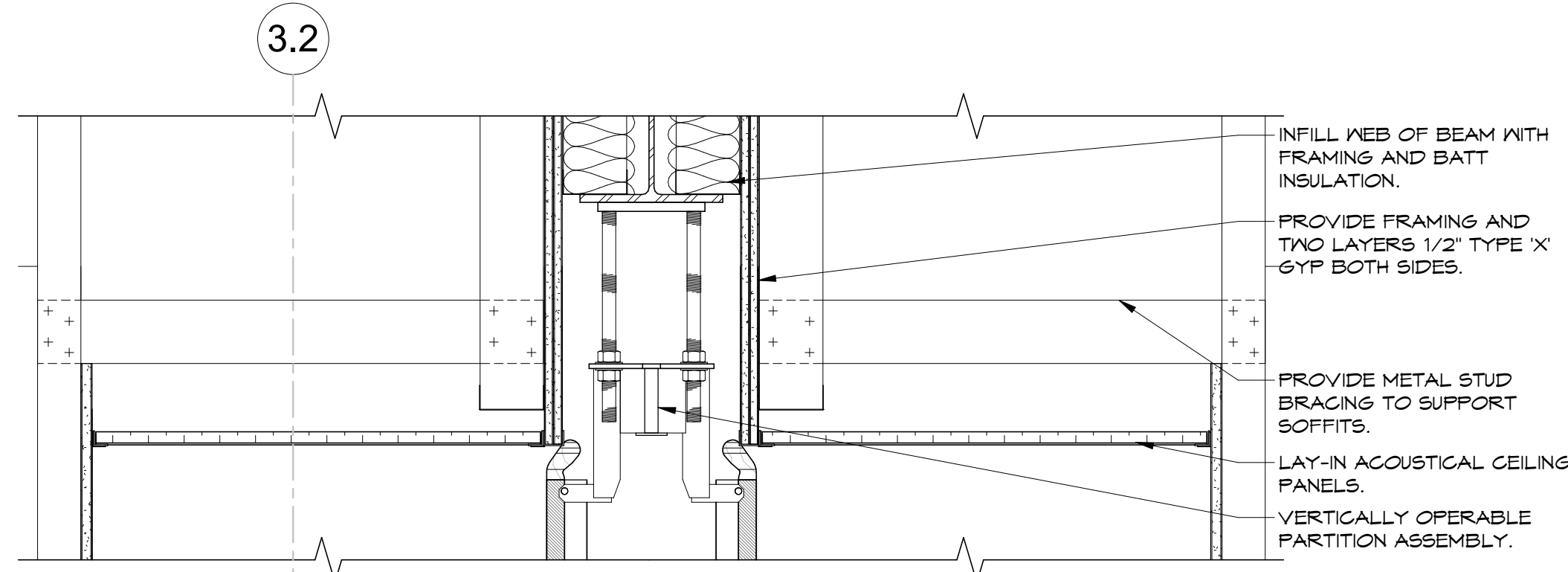
TITLE:
RENOVATE ARMORY
LOCATION:
STATE ARMORY
2 QUINCY PLACE
YONKERS, NY
CLIENT:
DIVISION OF MILITARY AND NAVAL AFFAIRS

MARK	DATE	DESCRIPTION
3	09/16/2026	ADDENDUM 1
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	11/24/2025	PERMIT SET

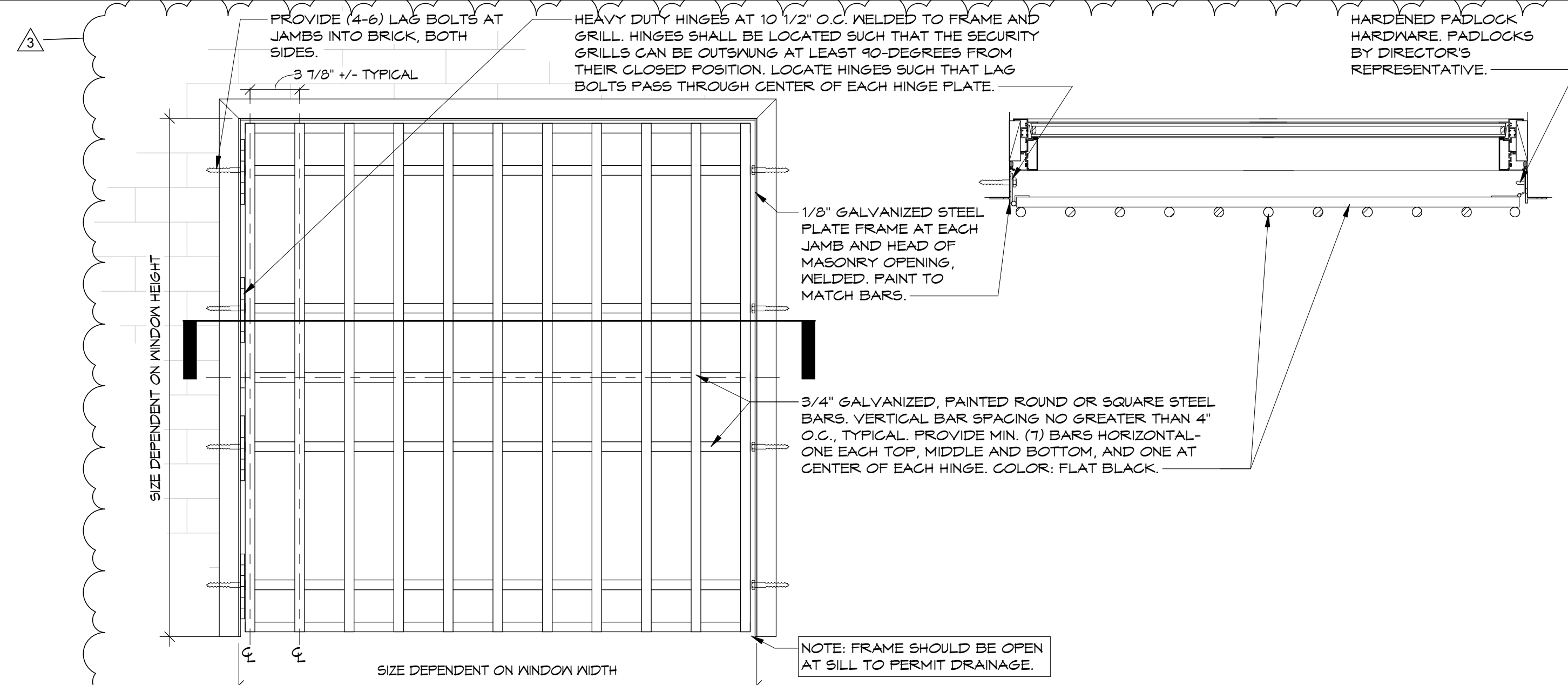
PROJECT NUMBER: 47477-C
DESIGNED BY: LS
DRAWN BY: LS/GBT
FIELD CHECK: JLP
APPROVED: DKA

ENLARGED CEILING PLAN UPPER LEVEL AREA F

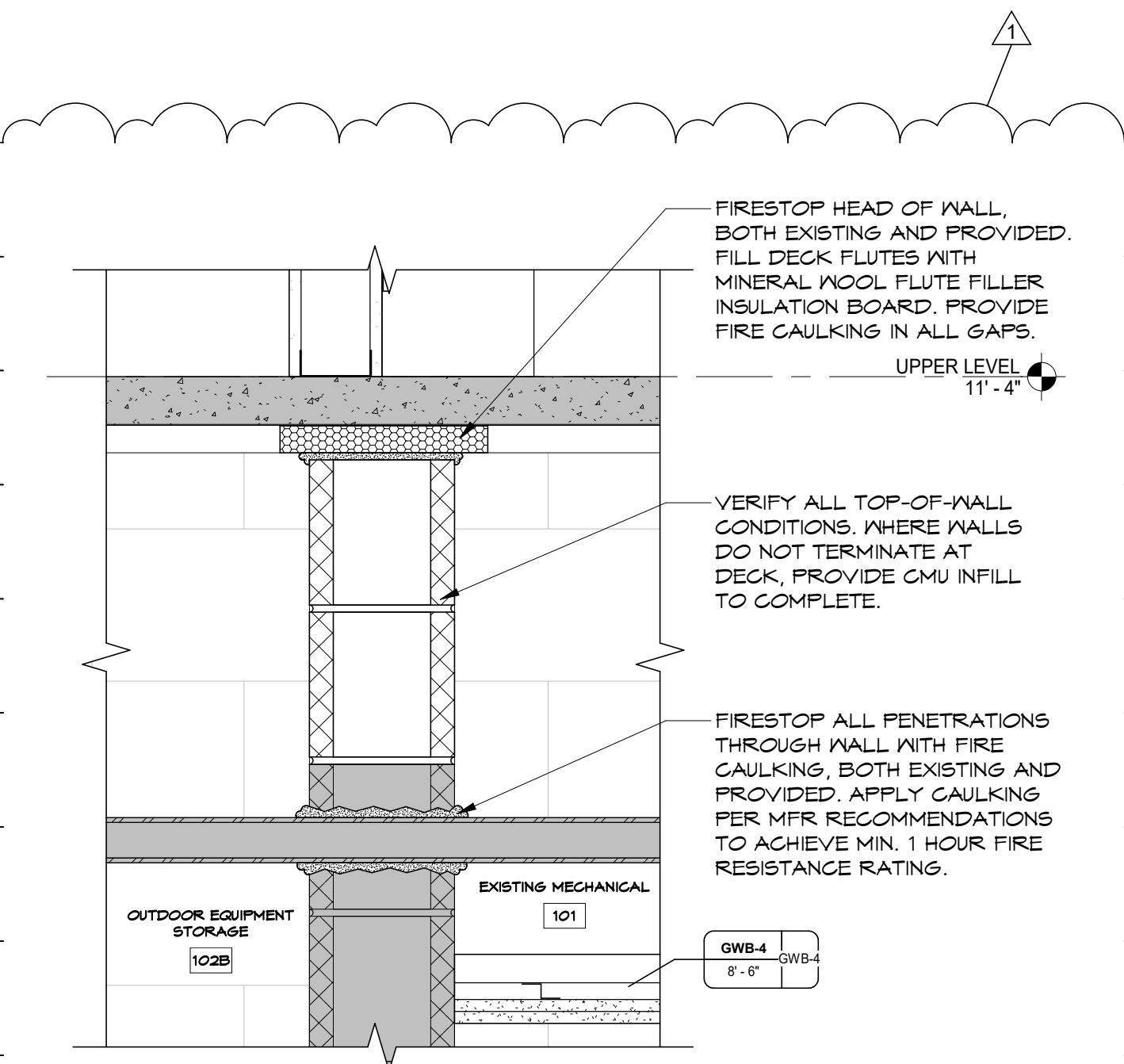
DRAWING NUMBER:
A-414
SHEET 76 OF 198



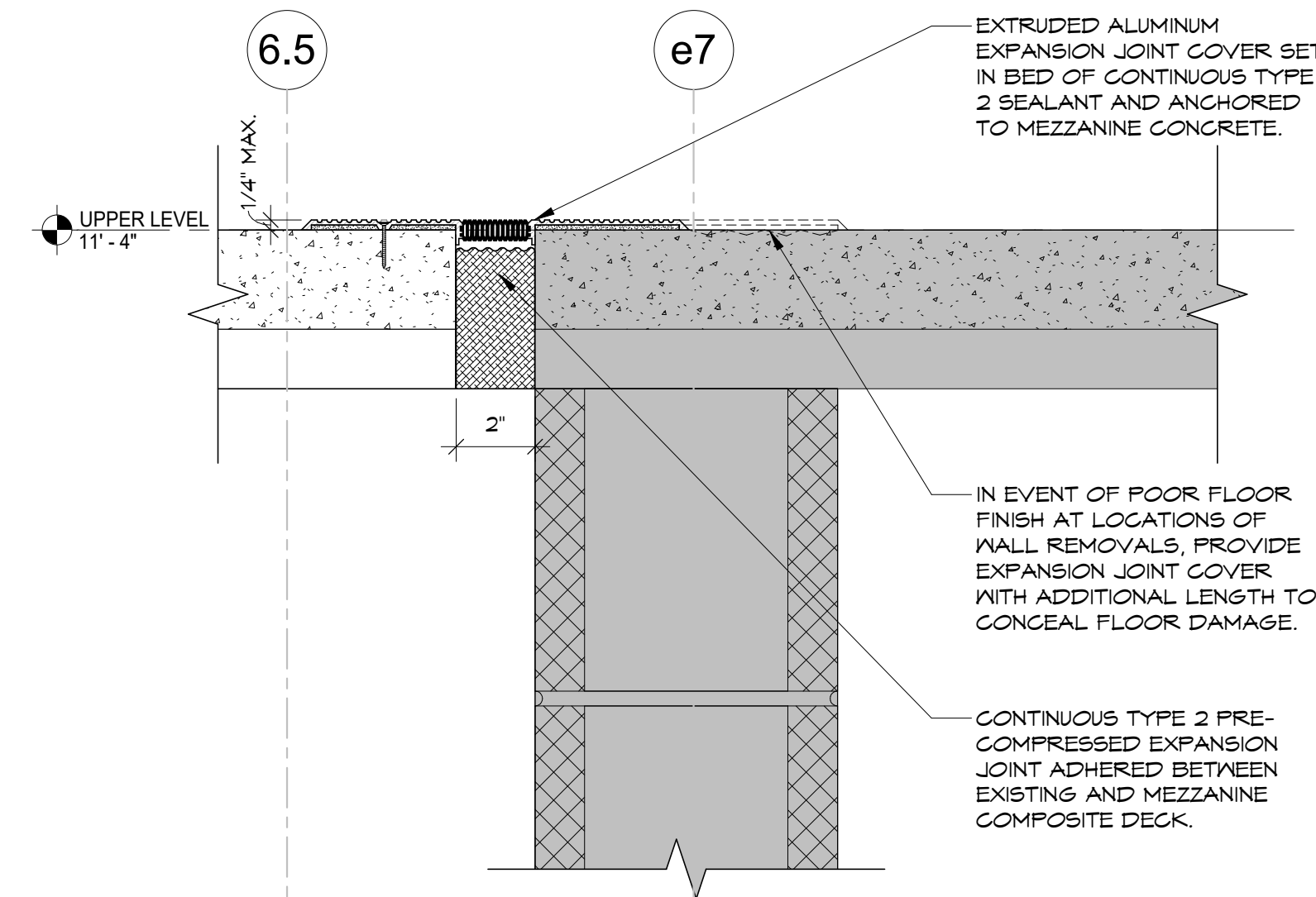
1 OPERABLE PARTITION DETAIL
SCALE : 1 1/2" = 1'-0"



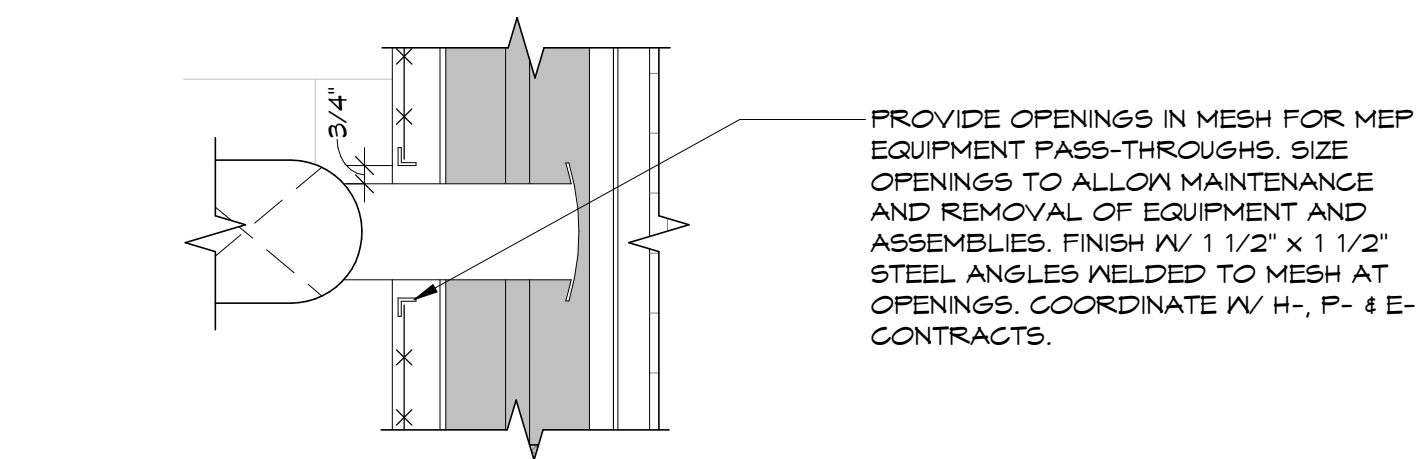
8 WINDOW SECURITY GRILLS
SCALE : 1 1/2" = 1'-0"



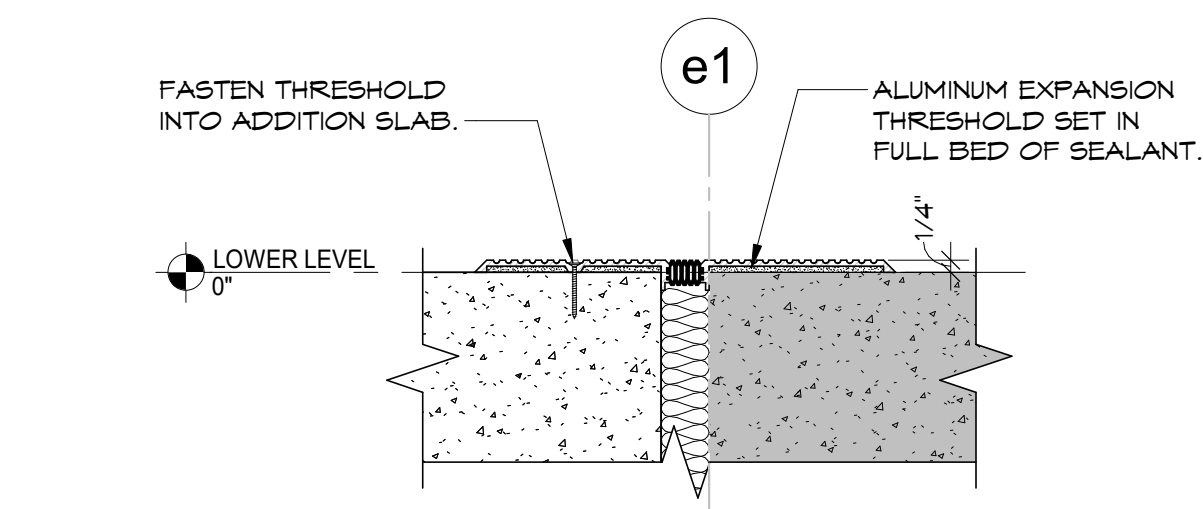
2 HEAD OF WALL RECONSTRUCTION
SCALE : 1 1/2" = 1'-0"



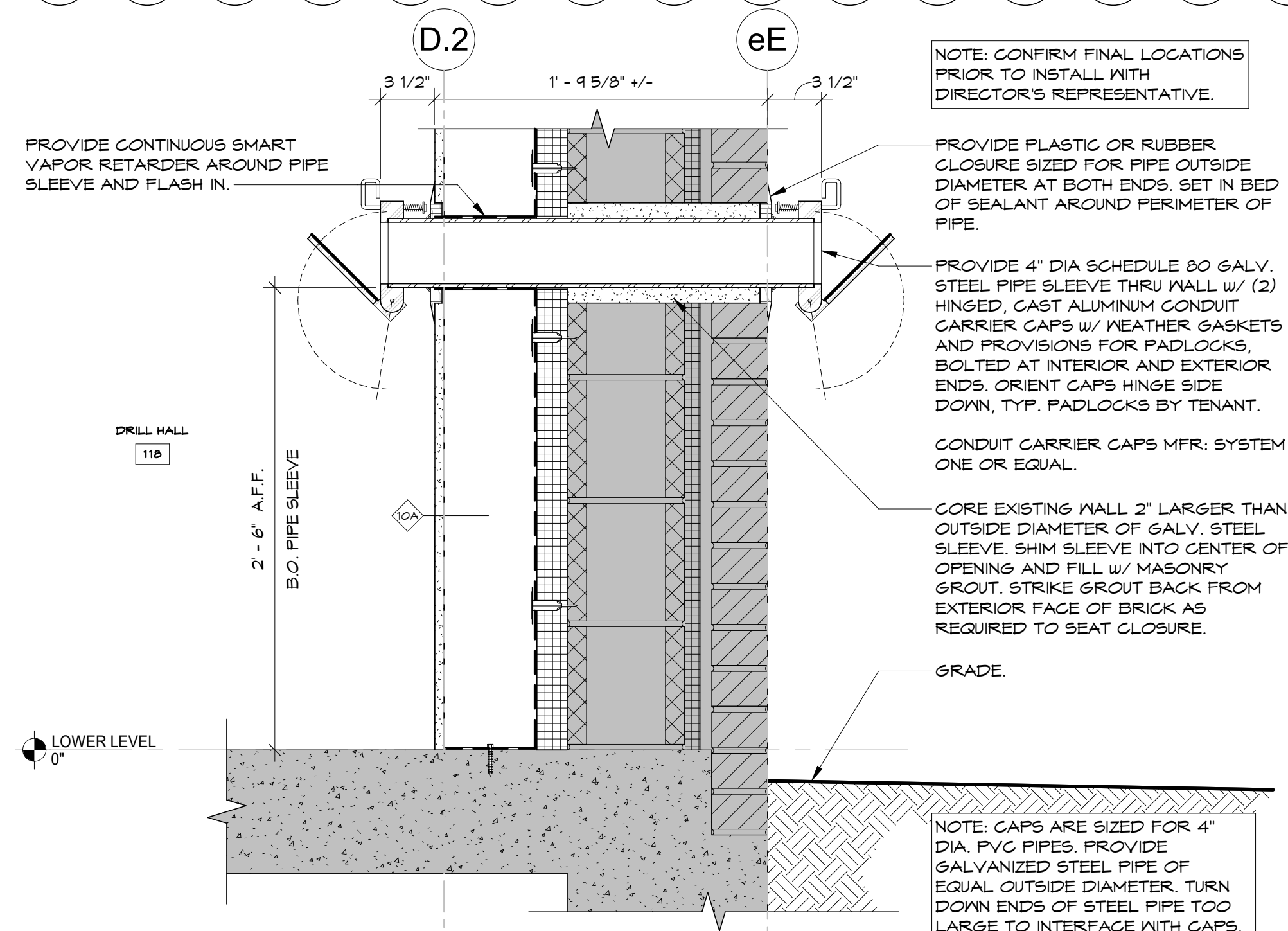
3 MEZZANINE EXPANSION JOINT COVER
SCALE : 3" = 1'-0"



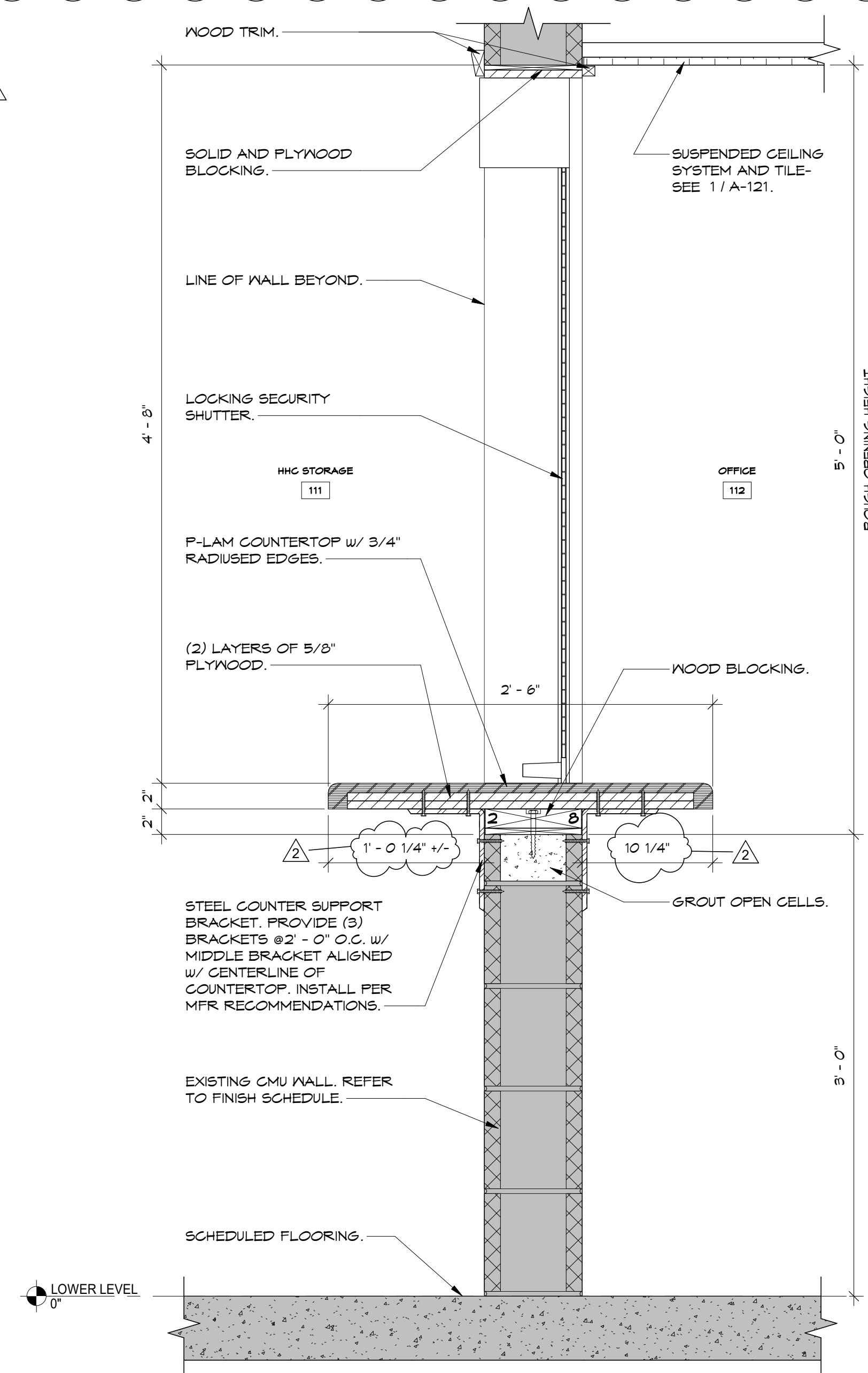
4 TYPICAL MEP CAGE PENETRATION
SCALE : 1 1/2" = 1'-0"



5 ADDITION FLOOR EXPANSION JOINT
SCALE : 3" = 1'-0"



6 SECTION DETAIL - CABLE PASS THROUGH SLEEVE
SCALE : 1 1/2" = 1'-0"



7 SECTION DETAIL - TRANSACTION WINDOW
SCALE : 1 1/2" = 1'-0"

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CONSTRUCTION

TITLE:
RENOVATE ARMORY
LOCATION:
STATE ARMORY
2 QUINCY PLACE
YONKERS, NY
CLIENT:
DIVISION OF MILITARY AND NAVAL AFFAIRS

MARK	DATE	DESCRIPTION
3	09/16/2026	ADDENDUM 1
2	07/20/2026	PERMIT AMENDMENT / BID SET
1	03/11/2026	PERMIT AMENDMENT SET
	11/24/2025	PERMIT SET
PROJECT NUMBER:	47477-C	
DESIGNED BY:	GBT/JLP	
DRAWN BY:	GBT	
FIELD CHECK:	JLP	
APPROVED:	DKA	

SECTIONS AND DETAILS

DRAWING NUMBER:

A-603

CONSULTANT

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CONSTRUCTION

CONTRACT:
TITLE: RENOVATE ARMORY
LOCATION: STATE ARMORY
2 QUINCY PLACE
YONKERS, NY
CLIENT: DIVISION OF MILITARY AND NAVAL AFFAIRS

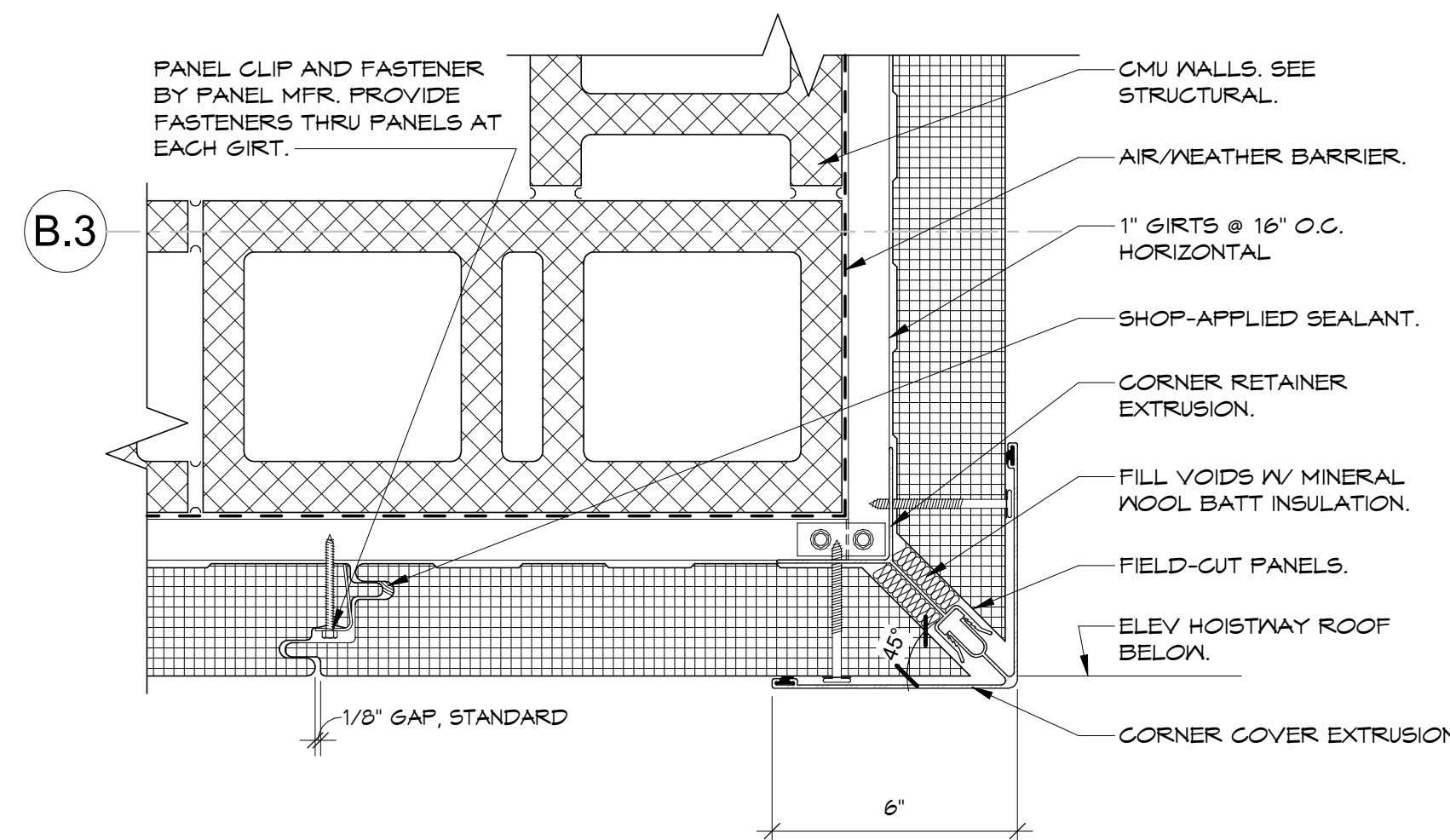
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2	07/20/2026	PERMIT AMENDMENT / SET
1	03/11/2026	PERMIT AMENDMENT / SET
	11/24/2025	PERMIT SET
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	47477-C	
DESIGNED BY:	GBT/JLP	
DRAWN BY:	GBT	
FIELD CHECK:	JLP	
APPROVED:	DKA	
SHEET TITLE:		

PLAN DETAILS

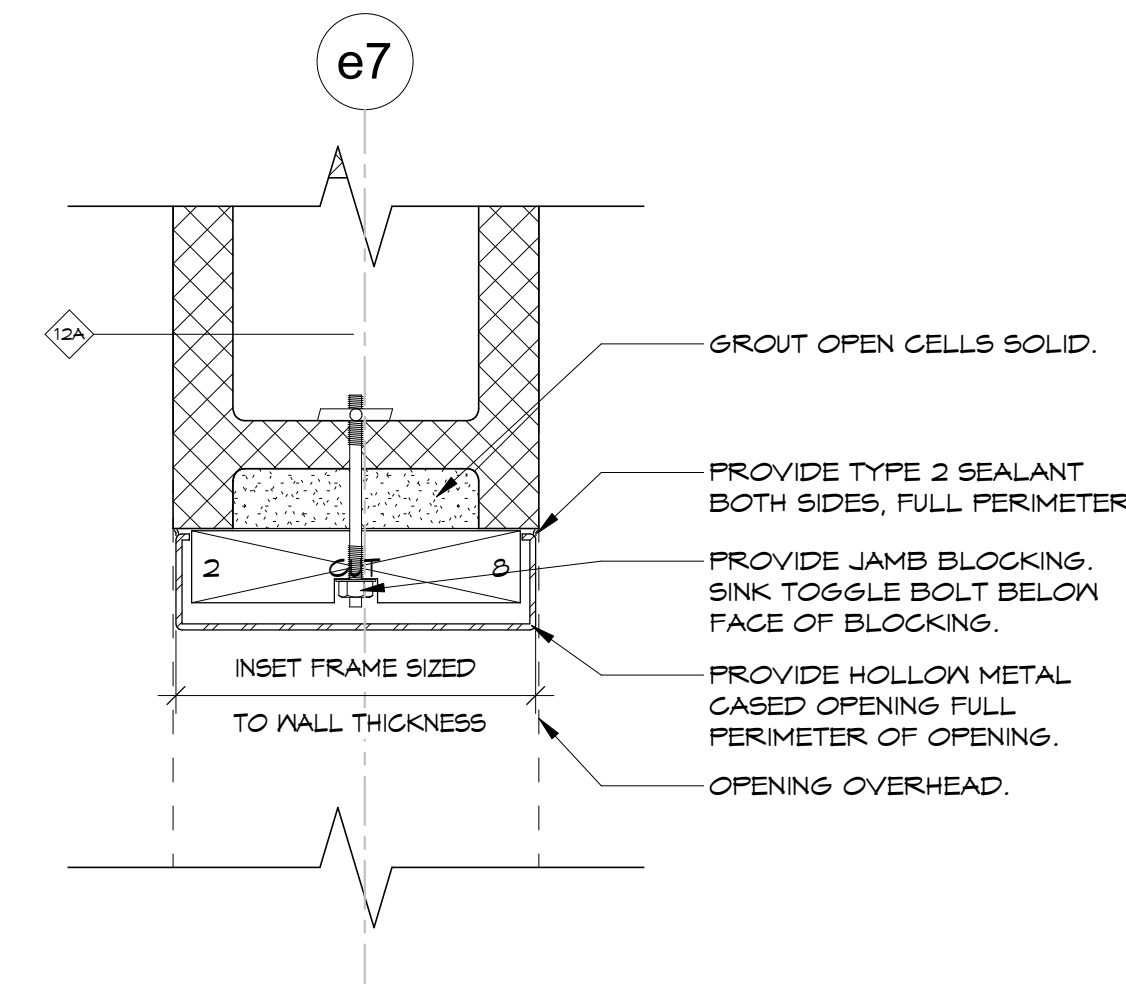
DRAWING NUMBER:

A-609

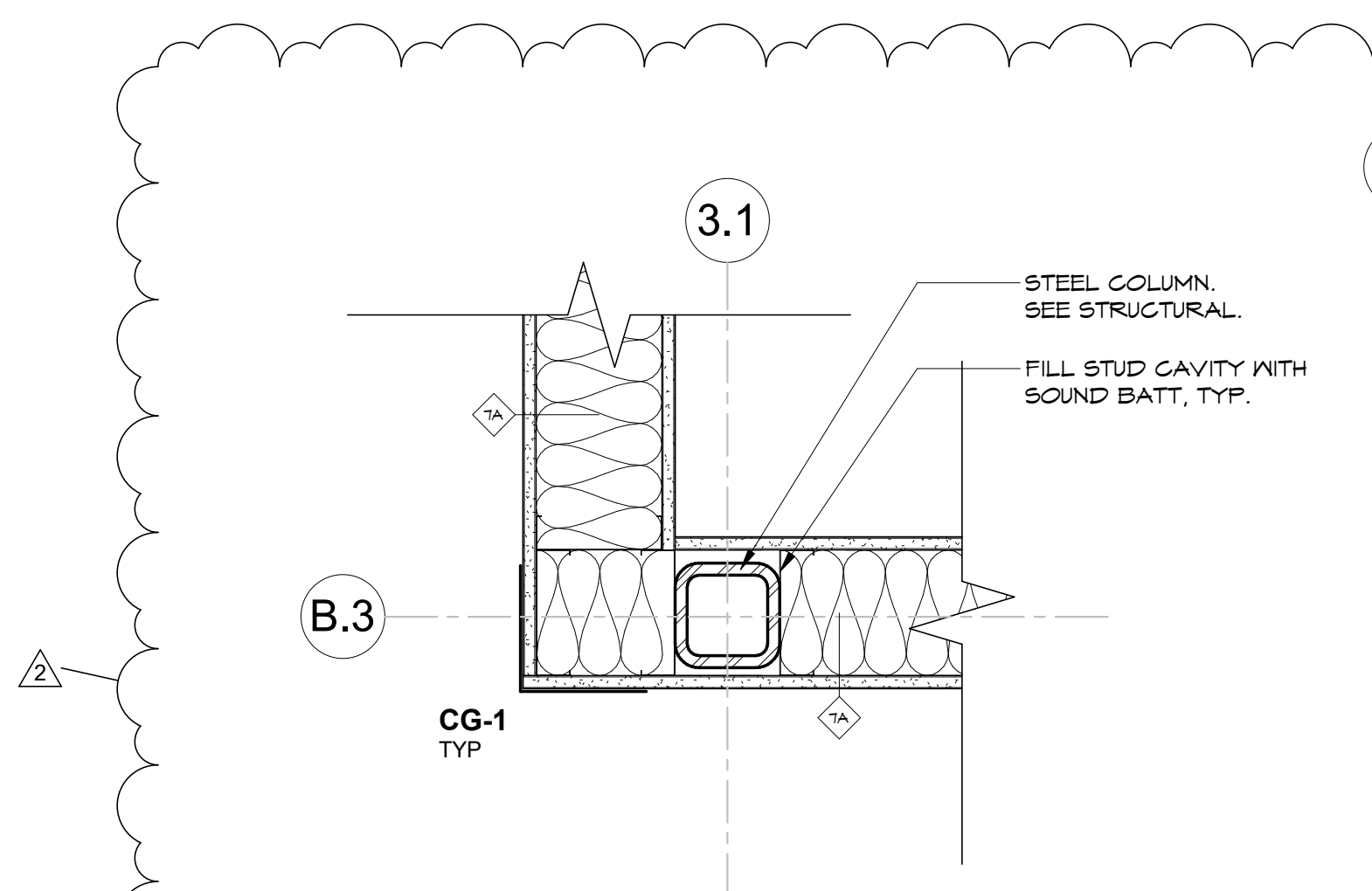
SHEET 89 OF 198



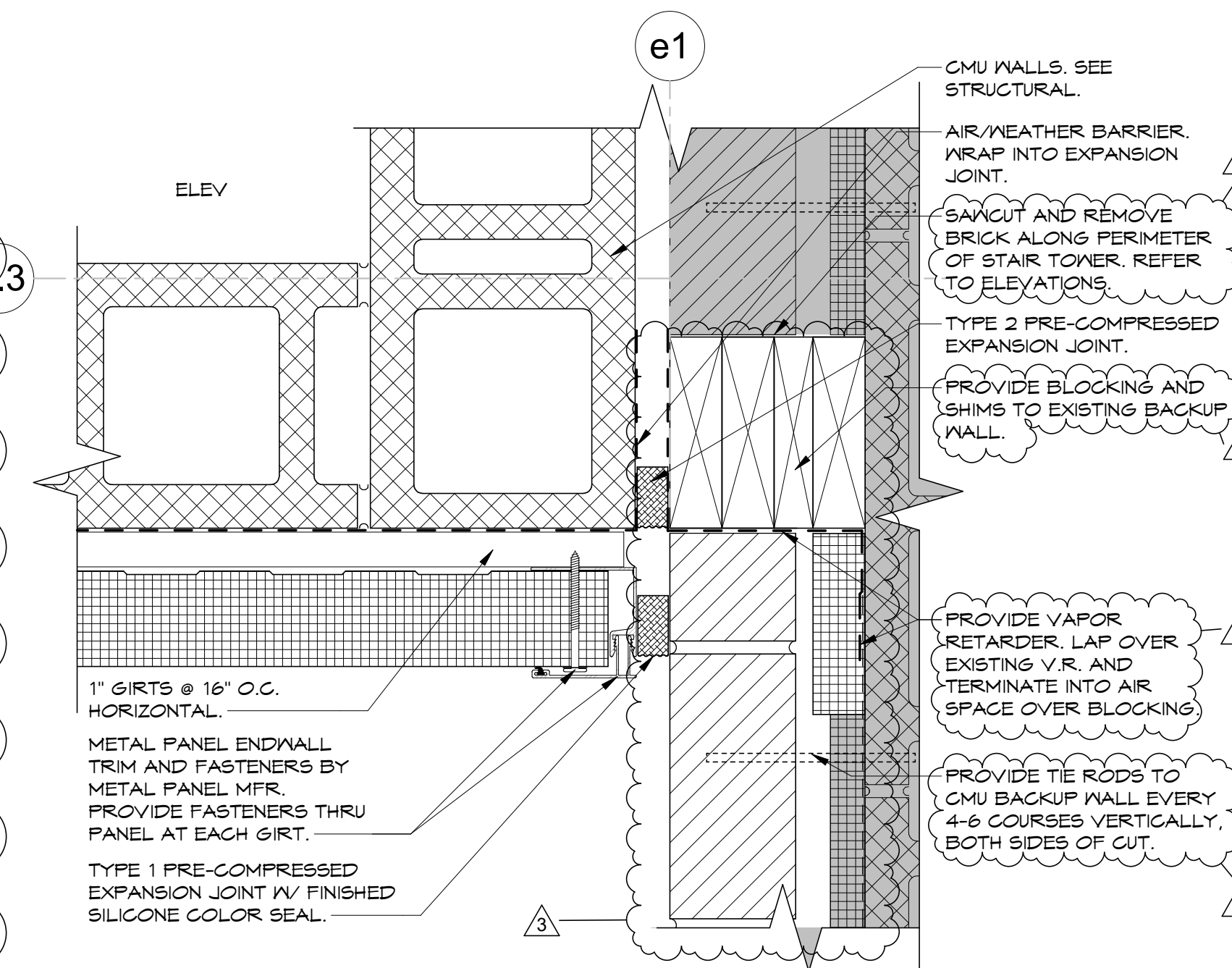
1 METAL PANEL OUTSIDE CORNER & VERTICAL JOINT
SCALE: 3" = 1'-0"



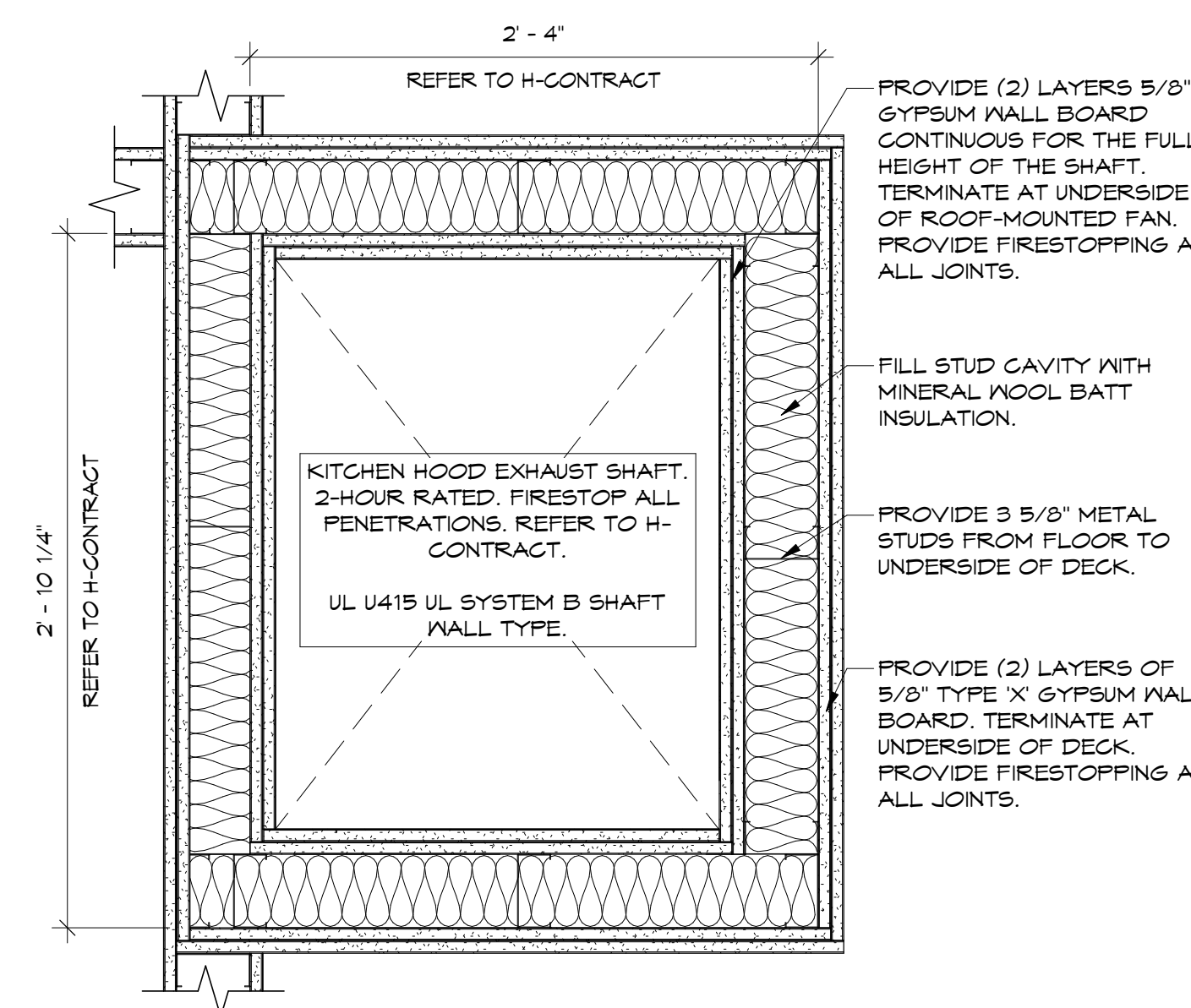
2 CASED OPENING JAMB
SCALE: 3" = 1'-0"



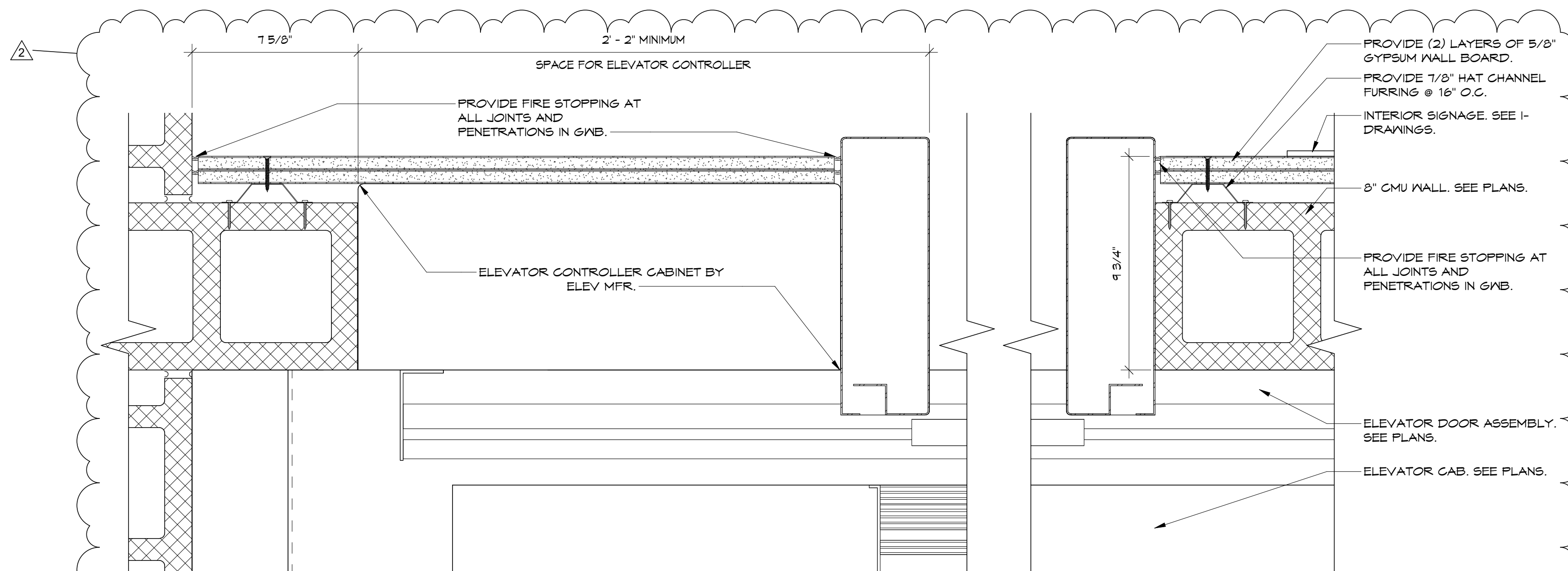
3 DRILL HALL WALL CORNER
SCALE: 1 1/2" = 1'-0"



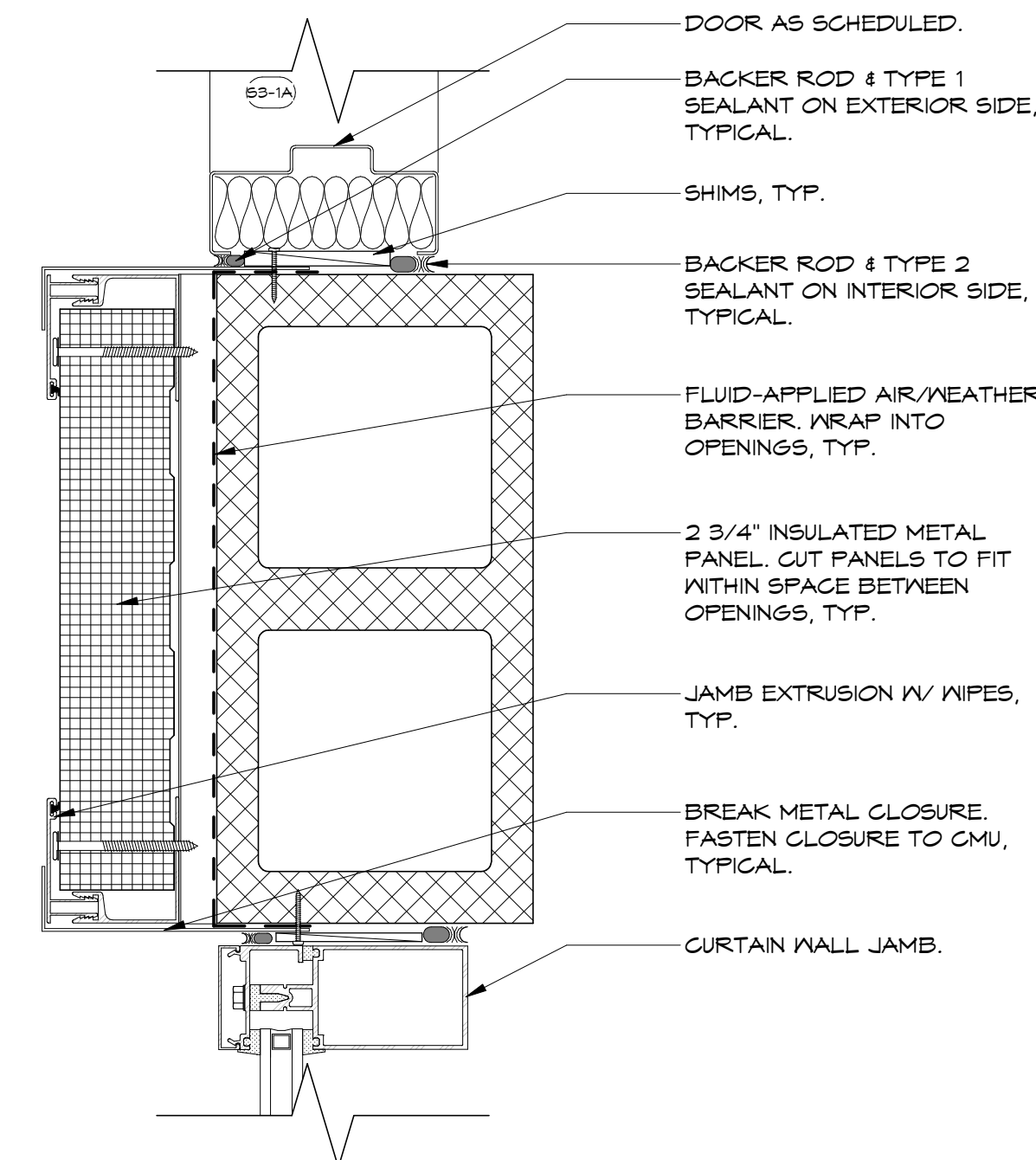
4 METAL PANEL ENDWALL CONDITION
SCALE: 3" = 1'-0"



5 RATED EXHAUST SHAFT
SCALE: 1 1/2" = 1'-0"



6 ELEVATOR CONTROLLER @ JAMB
SCALE: 3" = 1'-0"



7 PANELS BETWEEN OPENINGS
SCALE: 3" = 1'-0"

ROOM FINISH SCHEDULE										
RM#	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING MATERIAL	CEILING FINISH	COMMENTS
				NORTH	SOUTH	EAST	WEST			
LOWER LEVEL										
101	EXISTING MECHANICAL	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
102A	FACILITY STORAGE	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-4	
102B	OUTDOOR EQUIPMENT STORAGE	CS-1	RB-1	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-4	
102C	EXIT VESTIBULE	CS-1	RB-1	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-4	
103	EXISTING KITCHEN	EXIST	EXIST	EXIST, CT-8	EXIST, CT-8	EXIST, CT-8	EXIST, CT-8	ACT-2	-	SCOPE UNDER REVIEW BASED ON EQUIPMENT IMPACT
103A	SCULLERY	EXIST	EXIST	EXIST, CT-8	EXIST, CT-8	EXIST, CT-8	EXIST, CT-8	ACT-2	-	
103B	KIT STOR	EXIST	EXIST	EXIST, CT-8	EXIST, CT-8	EXIST, CT-8	EXIST, CT-8	ACT-2	-	
104	GENERAL STORAGE	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-4	EXPOSED	PT-4	
105	VEST	CT-7	TB-3	CT-1/CT-2	CT-1/CT-2	PT-2	PT-2	GWB-3	PT-5	
106	MEN'S LATRINE	CT-7	TB-1	CT-1/CT-2/GT-1/S-1	CT-1/CT-2/CT-5/GT-1	CT-1/CT-2/GT-1	CT-1/CT-2/GT-1	GWB-3	PT-13	VANITY PLAM-1WITH SS-2 COUNTER, SHOWERS SS-1, SHOWER FLOOR PANS, COORD WITH PLUMBING
107	JAN	ERF-2	ERF-2	PT-2	PT-2/SS-1	PT-2/SS-1	PT-2	GWB-3	PT-5	
108	VEST	CT-7	TB-3	CT-1/CT-2	CT-1/CT-2	PT-2	PT-2	GWB-3	PT-5	
109	WOMEN'S LATRINE	CT-7	TB-1	CT-1/CT-2/CT-5/GT-1	CT-1/CT-2/GT-1/SS-1	CT-1/CT-2/GT-1	CT-1/CT-2/GT-1/SS-1	GWB-3	PT-13	VANITY PLAM-1WITH SS-2 COUNTER, SHOWERS SS-1, SHOWER FLOOR PANS, COORD WITH PLUMBING
110	FITNESS	AF-1	RB-1	PT-11/WC-2	PT-2/PT-11	PT-11/WC-2	PT-2	EXPOSED	PT-7	COORDINATE FULL LENGTH MIRRORS NORTH AND EAST WALLS. EXISTING SUBSTRATE DEPTHS VARY THROUGHOUT THIS SPACE DUE TO DIFFERING FLOOR CONDITIONS. VERIFY SUBSTRATE LEVELS IN THE FIELD UPON COMPLETION OF DEMOLITION. PROVIDE INFILL AS NECESSARY TO ACHIEVE A LEVEL SURFACE SUITABLE FOR THE SCHEDULED FLOOR FINISH. IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
111	HHC STORAGE	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-7	
112	OFFICE	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
113	EXISTING VAULT	EXIST	EXIST	PT-2	PT-2	PT-2	PT-2	EXIST	PT-5	REVIEW NEED TO PRIME ANY REMEDIATED AREAS PRIOR TO PAINTING
114	EXISTING VAULT	EXIST	EXIST	PT-2	PT-2	PT-2	PT-2	EXIST	PT-5	REVIEW NEED TO PRIME ANY REMEDIATED AREAS PRIOR TO PAINTING
115	VEST	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-7	
116	C-COMPANY STORAGE	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-7	REVIEW ALTERNATE OF ACT-1 OVER DESKS
117	MULTI-PURPOSE	ERF-1	ERF-1	PT-1/PT-11	WC-3/PT-1	PT-1/PLAM-1	PT-1/PT-11	EXPOSED/APC-3	PT-5/PT-7	ACOUSTIC DOOR TO MATCH PLAM-1
118	DRILL HALL	ERF-2	ERF-2	PT-2	PT-2/WC-3	PT-2/WC-4	PT-2	EXPOSED	PT-4	ACOUSTIC DOOR TO MATCH PLAM-1, PLAN NORTH MEZZANINE WALL PT-10
119	VEST	ERF-2	ERF-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	PT-9 BLOCK FILLER BASE
120	ELEC	CS-1	RB-1	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-4	PT-9 BLOCK FILLER BASE
C4	CORRIDOR	ERF-1, ERF-2	ERF-1/ERF-2	PT-2/PT-10	PT-2	PT-2	PT-2	EXPOSED	PT-4	PT-9 BLOCK FILLER BASE
C5	CORRIDOR	ERF-2	ERF-2	PT-2	PT-2	PT-2/CT-5	PT-2	EXPOSED	PT-4	PT-9 BLOCK FILLER BASE
E1	ELEV									FROM MANUFACTURER'S LINE
S2	STAIR	CS-1	PT-6	-	PT-1	PT-2	PT-2	EXPOSED	PT-5/PT-7	WALL GRAPHIC WEST WALL UPPER LEVEL
S3	STAIR	CS-1	PT-6	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-4	PT-9 BLOCK FILLER BASE
S4	STAIR	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
UPPER LEVEL										
201	BN COMMANDER OFFICE	CPT-1	WB-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	ACT-1	-	LEVEL 1 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS
202	BN CSM OFFICE	CPT-1	WB-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS A/214-11, 12, 13, 14
203	BN OPS OFFICE	CPT-1	WB-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/WPLAM-1	PT-2/PLAM-1	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS A/214-11, 12, 13, 14
204	BN ASST OPS OFFICE	CPT-1	WB-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS A/214-11, 12, 13, 14
205	BN EXEC OFFICE	CPT-1	WB-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS A/214-11, 12, 13, 14
206	BN OPSNCOIC OFFICE	CPT-1	WB-1	PT-2/WPLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS A/214-11, 12, 13, 14
207	FLEX OFFICE	CPT-1	RB-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
208	IT	CS-1	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
209	BN COMMSEC OFFICE	CPT-1	RB-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS
210	SIPR	CPT-1	RB-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
211	BM OFFICE	CPT-1	RB-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS
212	BN COLLAB STATIONS	CPT-1	RB-2	PT-2	PT-1/PT-10	PT-2	PT-2	ACT-1	-	ALL SOFFITS PT-10
213	HHC CDR & 1SG OFFICE	CPT-1	WB-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS A/214-11, 12, 13, 14
214	HHC UNIT ADM & READINESS NCO OFFICE	CPT-1	RB-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS
215	HHC COLLAB	CPT-1	RB-2	PT-2	PT-2/PT-10	PT-2	PT-2	ACT-1	-	ALL SOFFITS PT-10
216	RECRUITING	CPT-1	RB-2	PT-10	WC-5	PT-2	PT-2	GWB-1	PT-5	ALL SOFFITS PT-10
217	HHC STOR	CS-1	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
218	GENERAL STORAGE	CS-1	RB-1	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-4	
220	VESTIBULE	CPT-2	TB-2	PT-2	PT-2	EXIST	EXIST	GWB-1	PT-5	
221	BREAK	ERF-1	ERF-1	PT-2	PT-10	PT-2/CT-5	PT-2	ACT-1	-	T-6 BACKSPLASH, CABINETS PLAM-1 WITH SS-2 COUNTER
222	WELL	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
223	JAN	ERF-1	ERF-1	PT-2/SS-1	PT-2	PT-2/SS-1	PT-2	ACT-1	-	
224	COPY RM	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
225	STATE STORAGE	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	EXPOSED	PT-4	
226	C-COMP CDR & 1SG OFFICE	CPT-1	WB-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	PT-2/PLAM-1	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS A/214-11, 12, 13, 14
227	C-COMP UNIT ADM & READINESS NCO OFFICE	CPT-1	RB-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	LEVEL 2 OFFICE FINISH. SEE TYPICAL PLAM WALL TREATMENT ELEVATIONS
228	C-COMPANY COLLAB	CPT-1	RB-2	PT-2	PT-2/PT-10	PT-2	PT-2	ACT-1	-	ALL SOFFITS PT-10
229	VEST	CT-7	TB-3	PT-2	PT-2	PT-2	PT-2	GWB-3	PT-5	
230	WOMEN'S LATRINE	CT-7	TB-1	CT-1/CT-2/GT-1	CT-1/CT-2/GT-1/SS-1	CT-1/CT-2/GT-1/S-1	TC-1/CT-2/GT-5/GT-1	GWB-3	PT-13	VANITY PLAM-1WITH SS-2 COUNTER, SHOWERS SS-1 AND FLOORS TO BE PANS, COORD WITH PLUMB
231	WOMEN'S GEAR STORAGE	ERF-1	ERF-1	PT-2	PT-2	PT-2/WC-7	PT-2	EXPOSED	PT-7	
232	AUX GEAR STORAGE	ERF-1	ERF-1	PT-2	PT-2	PT-2/WC-8	PT-2	EXPOSED	PT-7	
233	MEN'S LATRINE	CT-7	TB-1	CT-1/CT-2/GT-1	CT-1/CT-2/GT-1	CT-1/CT-2/CT-5/GT-1/SS-1	CT-1/CT-2/GT-1	GWB-3	PT-13	VANITY PLAM-1WITH SS-2 COUNTER, SHOWERS SS-1/SHOWER PANS, COORD WITH PLUMB
234	MEN'S GEAR STORAGE	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2/WC-9	EXPOSED	PT-4	
235	CONFERENCE	CPT-1	WB-1	PT-1	PT-1	PLAM-1	PLAM-1	GWB-1	PT-5	LEVEL 1 OFFICE FINISH. SEE TYPICAL PLAM TREATMENT ELEVATIONS
236	OFFICE	CPT-1	RB-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
237	OFFICE	CPT-1	RB-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
238	FACILITIES MANAGER	CPT-1	RB-2	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
239	VEST	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	ACT-1	-	
C1	CORRIDOR	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	ACT-1	-	PT-9 BLOCK FILLER BASE
C2A	CORRIDOR	ERF-1	ERF-1	PT-2	PT-2	PT-2/CT-5	PT-2	ACT-1	-	PT-9 BLOCK FILLER BASE
C2B	CORRIDOR	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	ACT-1	-	PT-9 BLOCK FILLER BASE
C2C	CLOSET	ERF-1	ERF-1	PT-2	PT-2	PT-2	PT-2	ACT-1	-	

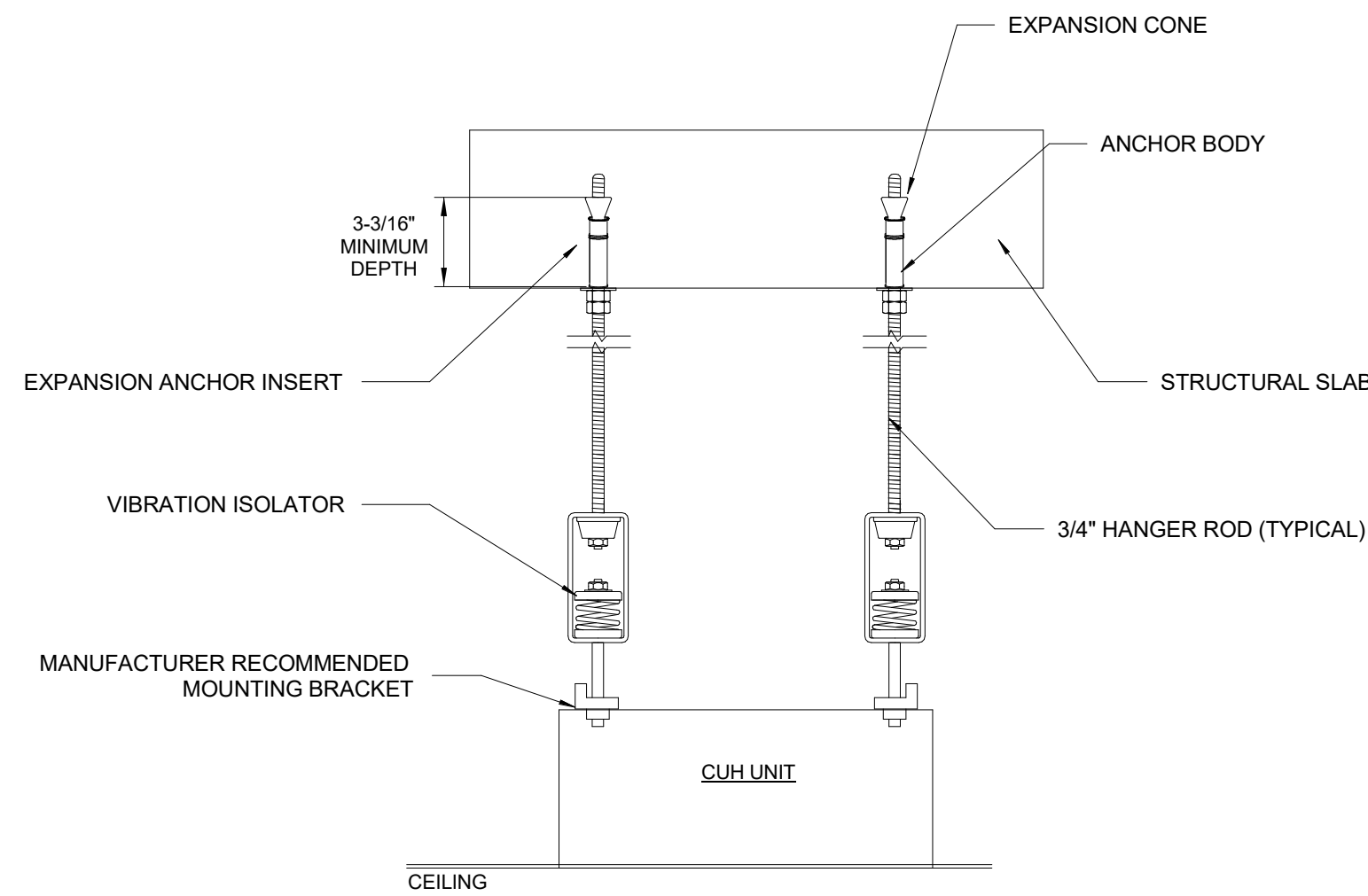
ROOM FINISH SCHEDULE GENERAL NOTES:

NOTE: ALL CMU WALLS SCHEDULED TO RECEIVE A PAINT FINISH MUST FIRST BE PRIMED WITH AN ACRYLIC BLOCK SURFACER (PT-9) TO PROVIDE A UNIFORM AND PROPER SURFACE PRIOR TO APPLYING THE FINAL PAINT FINISH AS SCHEDULED.

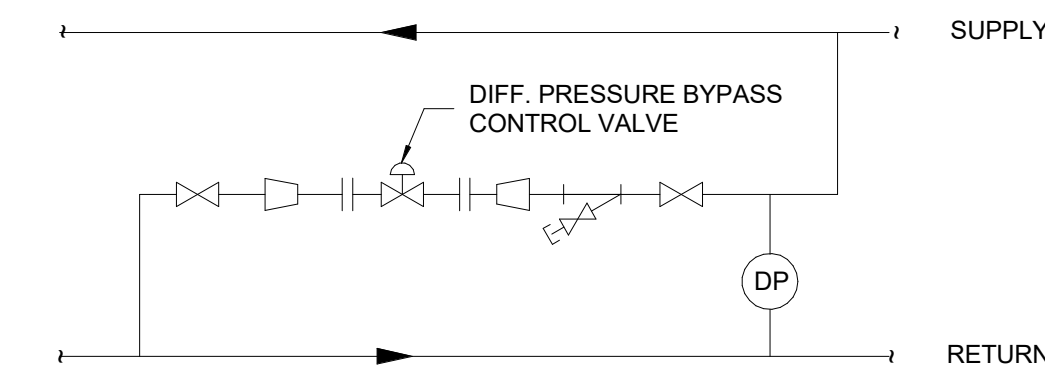
NOTE: FOR OFFICE FINISH LEVEL 1, MATCH THE FINISHES TO THOSE SHOWN IN THE SAMPLE LAYOUT OF THE ROOM BN COMMANDER OFFICE (201), REFERENCING ITS ELEVATION VIEWS.

NOTE: FOR OFFICE FINISH LEVEL 2, MATCH THE FINISHES TO THOSE SHOWN IN THE SAMPLE LAYOUT OF THE ROOM BN CSM OFFICE (202), REFERENCING ITS ELEVATION VIEWS.

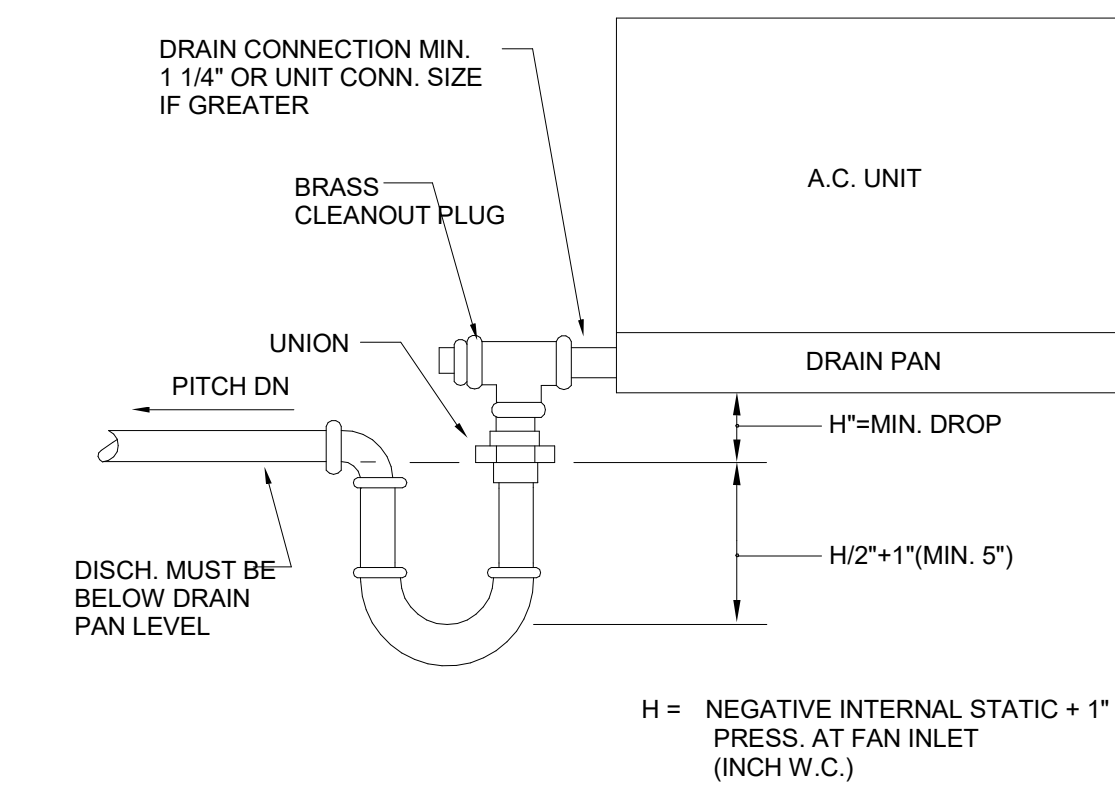
FINISH MATERIAL LEGEND						
TAG	MANUFACTURER	DESCRIPTION	MODEL NO. / COLLECTION	COLOR	FINISH	TYPICAL LOCATION
ACOUSTICAL CEILING						
ACT-1	USG	SANDRIFT, SHADOWLINE, ACOUSTICAL PANELS WITH USG DONN BRAND CENTRICITEE DXT 9/16" ACOUSTICAL SUSPENSION SYSTEM	808	WHITE/ FLAT WHITE		CORRIDORS, OFFICES
ACT-2	USG	KITCHEN LAY IN PANELS, 24X24		WHITE		KITCHEN
APC-1	CERTAINTED	DECOUSTICS CLARO	DIRECT MOUNT	PT-2/PT-10	EG-SHELL	DRILL HALL COORIDOR
APC-2	ARMSTRONG	ACOUSTIBUILT SEAMLESS ACOUSTIC SYSTEM		WHITE		LOBBY, MULTIPURPOSE ROOM
APC-3	CERTAINTED	DECOUSTICS CLARO	DIRECT MOUNT	SW 9152 LET IT RAIN		DRILL HALL (WALLS AND CEILINGS)
ATHLETIC FLOORING						
AF-1	MANNINGTON COMMERCIAL	ATHLETIC FLOOR	BURKE COLLECTION	BEIGE 824		FITNESS ROOM
CARPET						
CPT-1	MOHAWK GROUP	MILLIKEN COMMERCIAL	PLANK STYLE CARPET-TO BE SELECTED BY OWNER'S REPRESENTATIVE	COLOR TO BE SELECTED BY OWNERS REPRESENTATIVE		OFFICES, CONFERENCE
CPT-2	SHAW CONTRACT	WELCOME II	5T031	31549 CHARCOAL		VESTIBULE
CONCRETE						
CS-1	ARMORSEAL	CONCRETE SEALER	8100 HEAVY DUTY FLOOR COVERING			STORAGE/COPY ROOMS
EPOXY RESIN FLOORING						
ERF-1	STONEHARD	EPOXY RESIN FLOORING WITH INTEGRAL COVE BASE	STONTEC	DIABLO BEIGE, LARGE		CORRIDORS, STORAGE
ERF-2	STONEHARD	EPOXY RESIN FLOORING WITH INTEGRAL COVE BASE	STONTEC			DRILL HALL
EXISTING MATERIALS						
EXIST	EXISTING	EXISTING MATERIALS AS NOTED IN THE SCHEDULE				VAULTS AND MECH ROOMS
FABRIC						
FAB-1	DRAPER	MANUAL FLEXSHADE 3% OPEN MESH		COLOR MATCHING PT-2		
PAINT						
PT-1	SHERWIN WILLIAMS	DRYWALL PAINT, INTERIOR LATEX PAINT	PROMAR 200	SW9136 LULLABY	EG-SHELL	LIGHT BLUE ACCENT WALLS
PT-2	SHERWIN WILLIAMS	DRYWALL PAINT, INTERIOR LATEX PAINT	PROMAR 200	SW7003 TOQUE WHITE	EG-SHELL	TYPICAL WALL PAINT
PT-3	NOT USED					
PT-4	SHERWIN WILLIAMS	EXPOSED METAL DECK, STRUCTURE, AND DUCTWORK PAINT	PRO INDUSTRIAL MULTI SURFACE ACRYLIC	SW7006 EXTRA WHITE		EXPOSED STRUCTURAL MEMBERS AND DECK
PT-5	SHERWIN WILLIAMS	DRYWALL CEILING PAINT, INTERIOR LATEX PAINT	PROMAR 200	SW7006 EXTRA WHITE	FLAT	
PT-6	SHERWIN WILLIAMS	METAL DOOR FRAME PAINT	K45-1150 SERIES	SW6244 NAVAL	SATIN	
PT-7	SHERWIN WILLIAMS	METAL DECK, STRUCTURE, EXPOSED DUCTWORK PAINT	PRO INDUSTRIAL MULTI SURFACE ACRYLIC	SW6243 DISTANCE	SATIN	CHARCOAL ALTERNATE
PT-8	NOT USED					
PT-9	SHERWIN WILLIAMS	LOXON MASONRY UNIT PAINT, ACRYLIC BLOCK SURFACER	LX01W0200	WHITE		AT ALL CMU WALLS SCHEDULED TO RECIEVE PAINT
PT-10	SHERWIN WILLIAMS	DRYWALL PAINT, INTERIOR LATEX PAINT	PROMAR 200	SW6243 DISTANCE	EG-SHELL	SOFFITS AND ACCENT WALLS
PT-11	SHERWIN WILLIAMS	WALL GRAPHIC WEST WALL UPPER LEVEL	PRO INDUSTRIAL DTM ACRYLIC	AS SELECTED BY DIRECTOR FROM MANUFACTURER'S AVAILABLE COLOR SELECTIONS	LOW SHEEN	
PT-12	SHERWIN WILLIAMS	CEILING DOOR PAINT	PRO INDUSTRIAL ACRYLIC COATINGS	SW6244 NAVAL	SATIN	EXISTING KITCHEN CEILING DOORS
PT-13	SHERWIN WILLIAMS	DRYWALL PAINT, INTERIOR ACRYLIC LATEX PAINT		SW7006 EXTRA WHITE	SATIN	LATRINE/ DAMP AREA CEILINGS
PT-14	SHERWIN WILLIAMS	VAULT DOOR PAINT		GSA GRAY (AA-D-600D)		FEDERAL STANDARD FOR VAULT DOORS
PT-15	SHERWIN WILLIAMS	VAULT SIGNAL PAINT		FED STD 12246 OR RAL 2010		FEDERAL STANDARD FOR VAULT SIGNAL ORANGE
PLASTIC LAMINATES						
PLAM-1	WILSONART	WOOD LAMINATE		7937-38 RIVER CHERRY		BREAKROOM CABINETS, LATRINE VANITIES
RESILIENT BASE						
RB-1	ROPPE	RESILIENT COVE BASE		123 CHARCOAL		CARPET AND CONCRETE FLOOR AREAS
RB-2	ROPPE	RESILIENT COVE BASE	TO BE SELECTED BY OWNERS REP	TO BE SELECTED BY OWNERS REP		
SOLID SURFACE						
SS-1	WILSONART	SOLID SURFACE SURROUNDS	I573MG	FROSTY WHITE MIRAGE		SHOWER WALLS
SS-2	COSENTINO	QUARTZ COUNTERS	SILESTONE	DESERT SILVER	POLISHED	LATRINES AND BREAKROOM
TILE						
CT-1	CAESAR US	PORCELAIN TILE 6X24	WAVESCAPE	MALIBU	MATTE	LATRINE WALLS
CT-2	CAESAR US	PORCELAIN TILE 12X24	WAVESCAPE	MALIBU	MATTE	LATRINE WALLS
CT-7	CAESAR US	PORCELAIN FLOOR TILE, 12X24	STONEWAYS	NIGHT	MATTE	LATRINE FLOOR
CT-4	AMERICAN OLEAN	CERAMIC WALL SUBWAY TILE, 4X4	COLOR STORY WALL	0061 MATTE DESIGNER WHITE	MATTE	
CT-5	AMERICAN OLEAN	CERAMIC WALL SUBWAY TILE, 4X12	COLOR STORY WALL	0117 NAVY	GLOSS	LATRINE SINK WALLS
CT-6	AMERICAN OLEAN	CERAMIC WALL SUBWAY TILE, 4X12	COLOR STORY WALL	0077 NAVEL	GLOSS	BREAK ROOM BACKSPLASH
CT-3	STONEPEAK	PORCELAIN FLOOR TILE, 12X24	URBAN 2.0	LAVA GRAY	HONED	LOBBY



D 1 CUH SUPPORT DETAIL
M-601 SCALE: N.T.S.

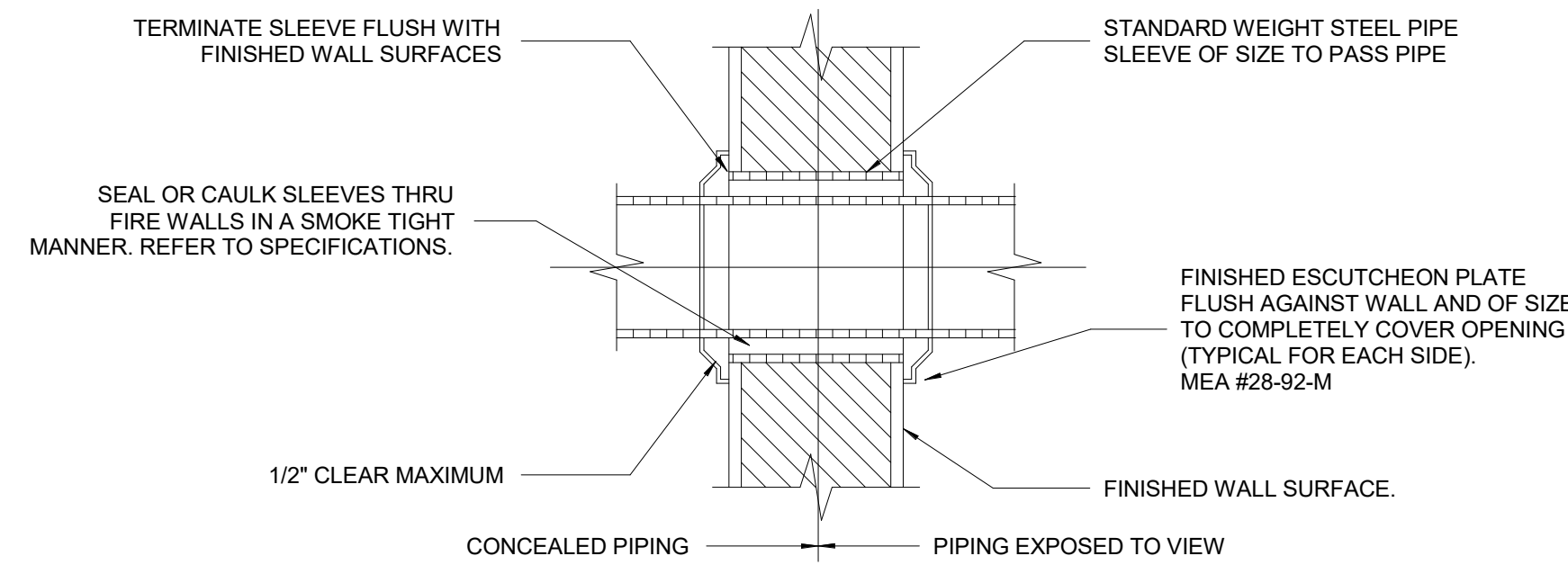


D 4 DIFFERNETIAL PRESSURE BYPASS CONTROL VALVE DETAIL
M-601 SCALE: N.T.S.



CONDENSATE PIPE CHART.			
PIPE SIZE	UNIT CAPACITY	PIPE SIZE	UNIT CAPACITY
1 1/4"	6 TO 20 TONS	2"	51 TO 100 TONS
1"	UP TO 5 TONS	1 1/2"	21 TO 50 TONS

D 8 CONDENSATE DRAIN PIPING THRU UNIT
M-601 SCALE: N.T.S.



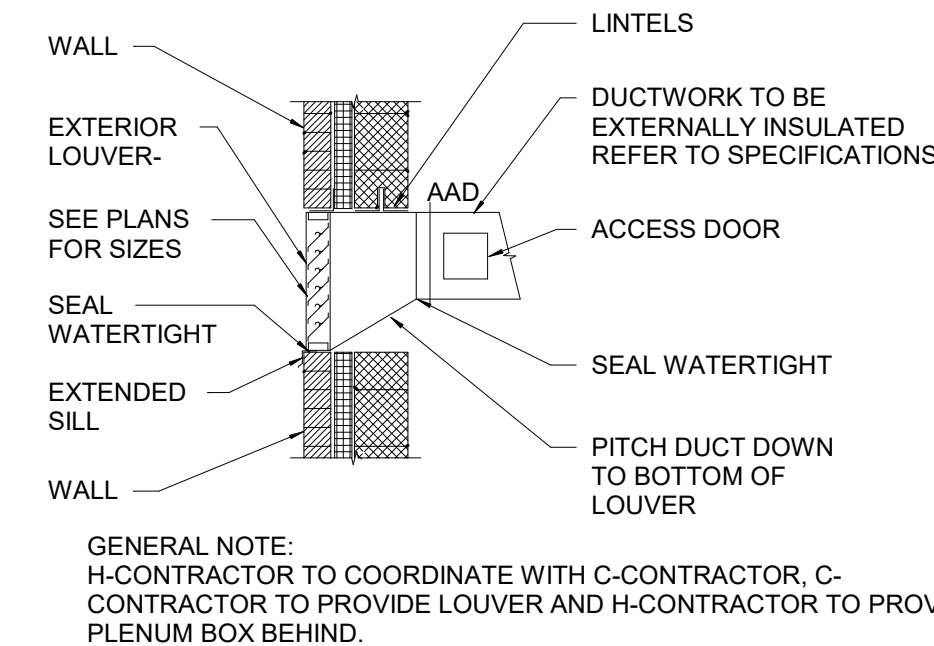
SLEEVE AND ESCUTCHEONS:

- SLEEVES FOR PIPING THROUGH MASONRY WALL SHALL BE SCHEDULE 40, STANDARD GALVANIZED STEEL PIPE. IN FRAMED PARTITIONS SHALL BE 20 GAUGE SHEET METAL. SLEEVE SHALL HAVE A SUFFICIENT LENGTH TO BE FLUSH WITH THE FINISHED WALL SURFACES.
- EXPOSED PIPING PASSING THROUGH WALLS, FLOORS, OR CEILINGS SHALL BE FITTED WITH CHROMIUM-PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS.

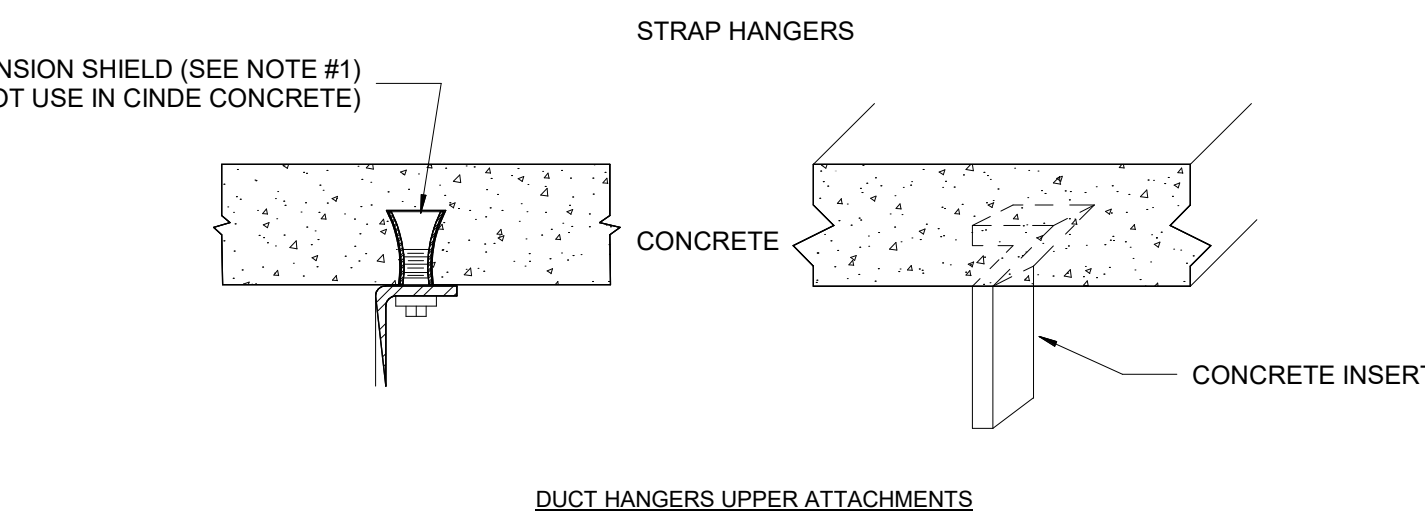
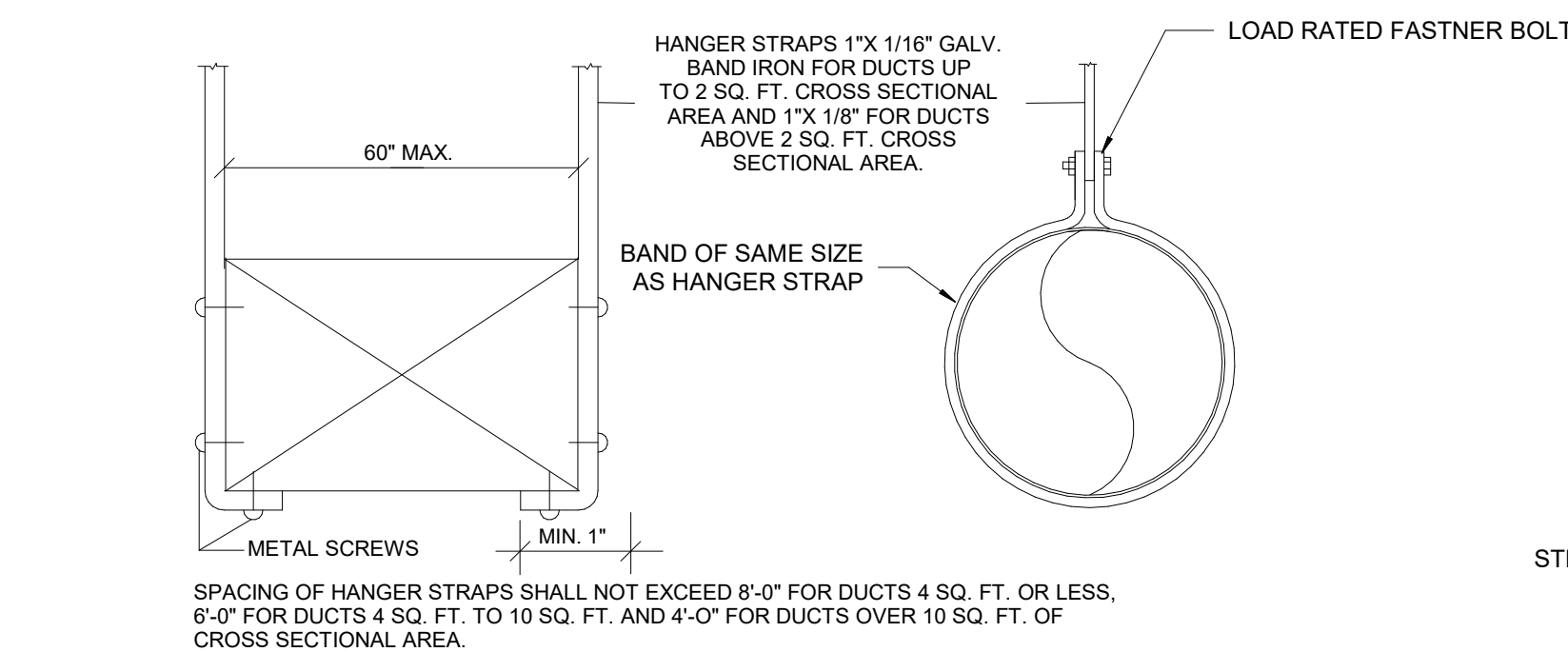
CUTTING AND PATCHING:

- PIPING PASSING THROUGH WALLS SHALL HAVE A TRIM OPENING CUT NO GREATER THAN NECESSARY FOR THE INSTALLATION OF A SLEEVE SECURED THEREIN.
- PIPING PASSING THROUGH CONCRETE FLOORS SHALL HAVE AN OPENING CORE DRILLED SO THAT THE SPACE BETWEEN THE OPENING AND THE PIPE SHALL NOT EXCEED 1/2".
- ANNULAR SPACES BETWEEN PIPING AND SLEEVES OR CORE DRILLED FLOOR OPENINGS SHALL BE PACKED WITH MINERAL WOOL AND SEALED, TO RETAIN THE FIRE INTEGRITY OF THE WALLS AND FLOORS, WITH NON-HARDENING COMPOUND SIMILAR OR EQUAL TO DUXSEAL AS MANUFACTURED BY THE J.M. CLIPPER CORP.

D 2 DETAIL OF PIPE PENETRATION THRU RATED WALL SHOWN (SLAB PENETRATION)
M-601 SCALE: N.T.S.

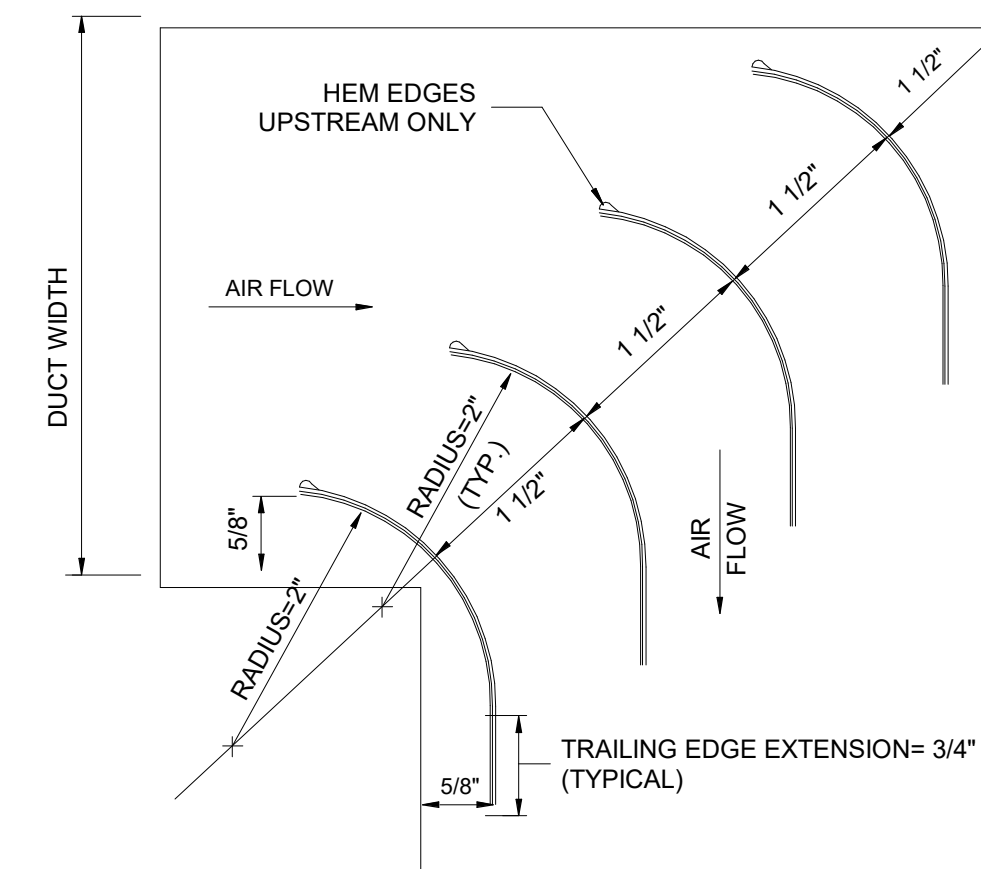


D 5 EXTERIOR LOUVER DETAIL
M-601 SCALE: N.T.S.



NOTE:
1. FOR N.Y.S. USE BS & A OR MEA APPROVED INSERTS.

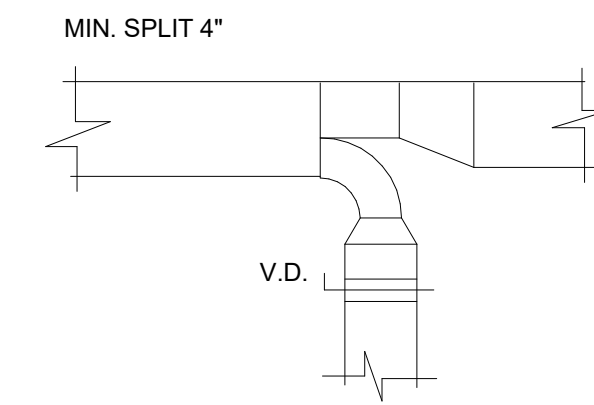
D 9 DUCTWORK SUPPORT DETAIL
M-601 SCALE: N.T.S.



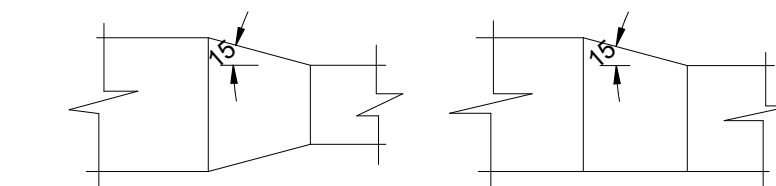
NOTES:

- ALL TURNING VANES TO BE MADE OF 18 GAUGE GALV. SHEET METAL. 2" RADIUS, 1 1/2" SPACING ON DIAGONAL, 3/4" TRAILING EDGE, SINGLE THICKNESS, FOR DUCT VELOCITIES ABOVE 2000 FPM.
- EDGES OF VANES SHALL BE CLEANLY SHEARED WITH NO BURRS, ETC.
- VANES SHALL BE SECURELY WELDED TO RUNNERS, AND WELD RUNNERS TO DUCT SIDES, AS SHOWN FOR IN SMACNA MANUAL.

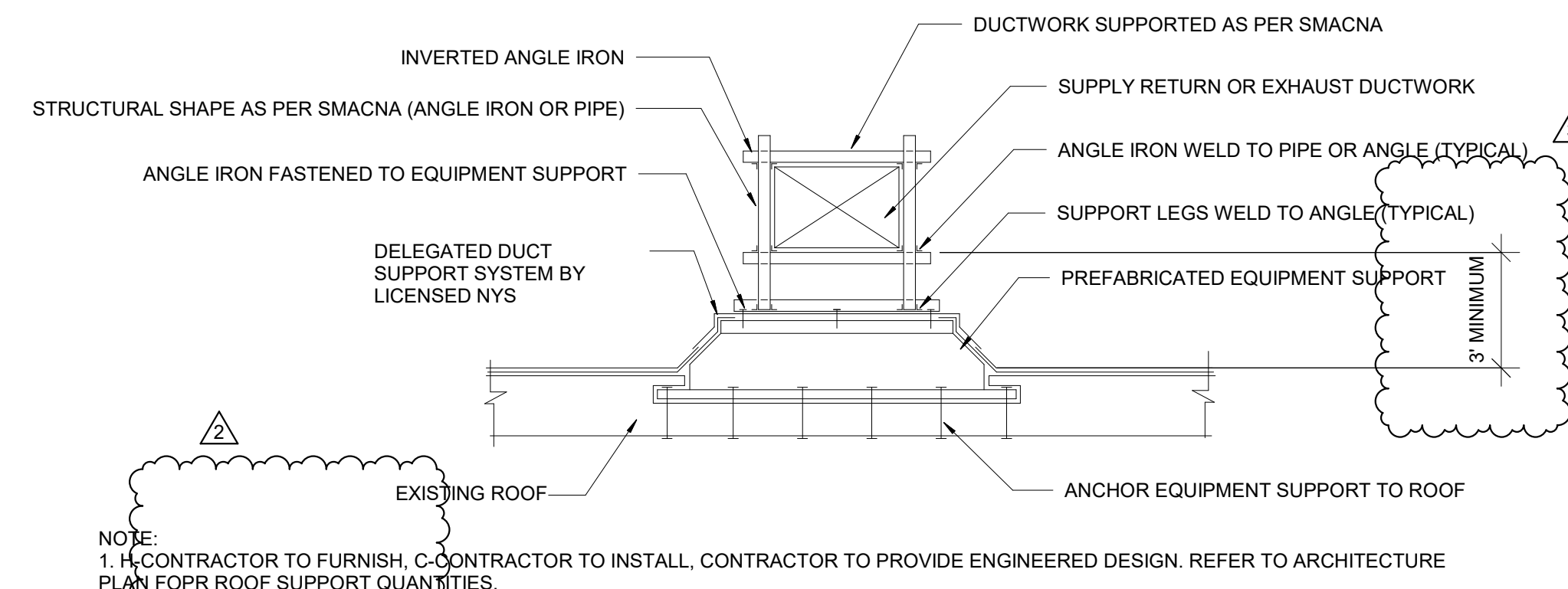
D 3 ELBOW WITH TURNING VANES
M-601 SCALE: N.T.S.



D 7 DUCT SPLIT FOR BRANCHES
M-601 SCALE: N.T.S.



D 10 TRANSITIONS
M-601 SCALE: N.T.S.



NOTE:
1. H-CONTRACTOR TO FURNISH, C-CONTRACTOR TO INSTALL, CONTRACTOR TO PROVIDE ENGINEERED DESIGN. REFER TO ARCHITECTURE PLAN FOR ROOF SUPPORT QUANTITIES.

D 11 DUCT SUPPORT DETAIL ON ROOF
M-601 SCALE: N.T.S.

CONSULTANT

bell & spina

ARCHITECTS

A&J Consulting
Engineering Services, P.C.

CODE COMPLIANCE STATEMENTS

ENERGY CODE STATEMENT

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

UNIFORM CODE STATEMENT

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WARNING:

THE ALTERATION OF THIS MATERIAL ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT:

HVAC

TITLE:

RENOVATE ARMORY

LOCATION:

**STATE ARMORY
2 QUINCY PLACE
YONKERS, NY**

CLIENT:

DIVISION OF MILITARY AND NAVAL AFFAIRS

NO.	DATE	DESCRIPTION
3	09/16/2026	ADDENDUM 1
2	07/20/2026	PERMIT AMENDMENT/BID SET
1	03/11/2026	PERMIT AMENDMENT SET
	11/24/2025	PERMIT SET
MARK	DATE	DESCRIPTION

PROJECT NUMBER: 47477-H

DESIGNED BY: SJ/HS

DRAWN BY: SJ

FIELD CHECK: HS

APPROVED: HS

SHEET TITLE:

**HVAC STANDARD
DETAILS SHEET NO. 1**

DRAWING NUMBER:

M-601

CONSULTANT

bell & spina

ARCHITECTS

A&J Consulting
Engineering Services, P.C.

ENERGY CODE COMPLIANCE STATEMENT:

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1	03/11/2026	PERMIT AMENDMENT SET
	11/24/2025	PERMIT SET

PROJECT NUMBER: 47477-E

DESIGNED BY:

DA

DRAWN BY:

DA

FIELD CHECK:

RW/HS

APPROVED:

RW/HS

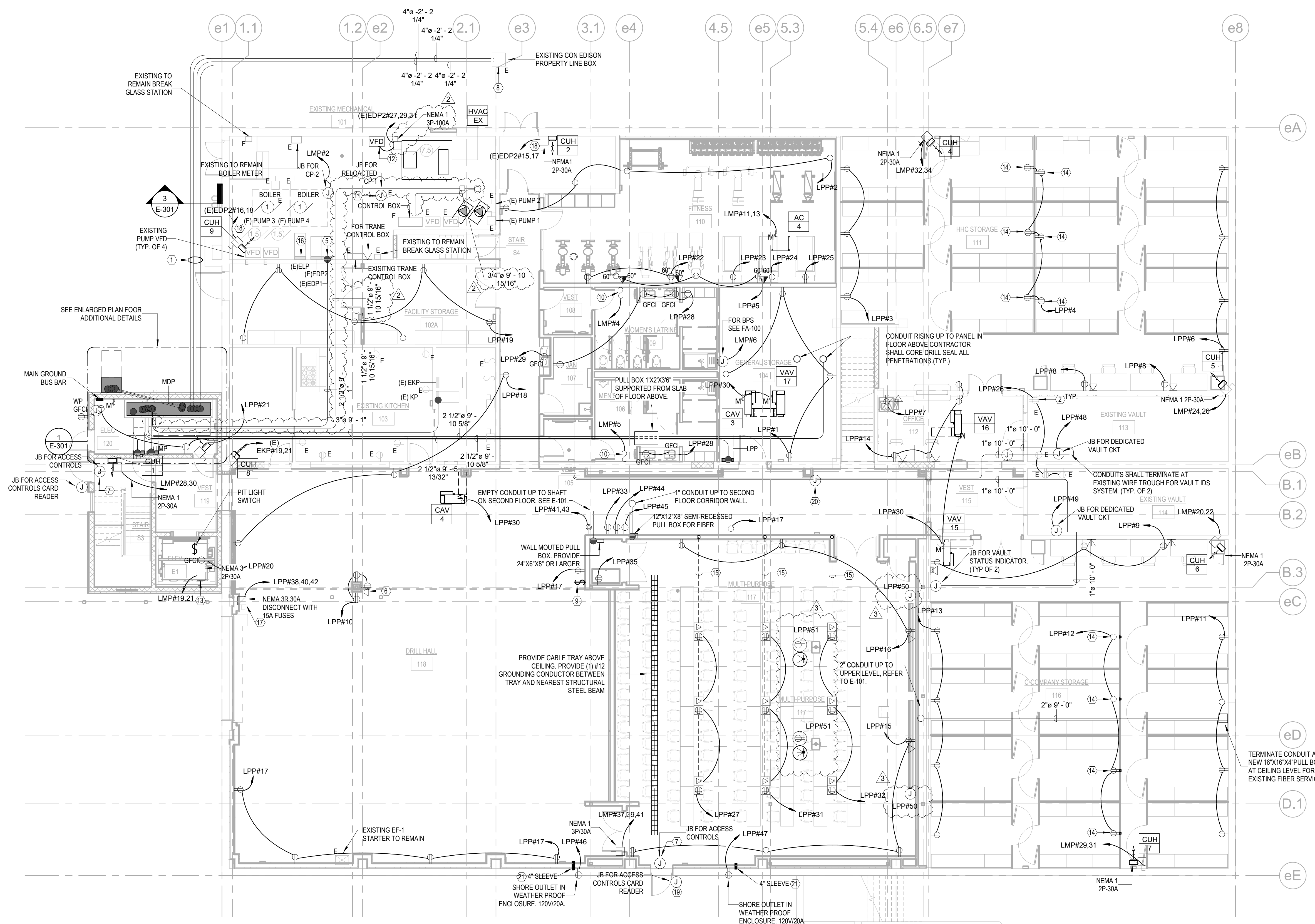
SHEET TITLE:

LOWER LEVEL POWER
PLAN

DRAWING NUMBER:

E-100

SHEET 179 OF 198



D 1 LOWER LEVEL

E-100 SCALE: 1/8" = 1'-0"

0' 4'-0" 8'-0" 16'-0"



GENERAL NOTES:

1. REFER TO E-001 FOR SYMBOLS, ABBREVIATIONS AND NOTES.
2. REFER TO E-700 SERIES FOR TYPICAL DETAILS.
3. REFER TO E-600 SERIES FOR PANEL SCHEDULES.
4. REFER TO E-501 FOR SINGLE LINE.
5. COORDINATE EXACT ROUTING OF CONDUITS IN THE FIELD.
6. REFER TO DETAIL SHEET E-702 DETAIL 8 FOR SWITCHED RECEPTACLE WIRING DETAIL. COORDINATE EXACT WIRING NEEDED WITH LIGHTING CONTROLS SYSTEM MANUFACTURER.

E-100 KEY NOTES

1. PROVIDE (4) 4" CONDUITS IN TRENCH AT MINIMUM 24" BELOW GRADE, FIELD COORDINATE EXACT ROUTING. REFER TO DRAWING E501.00 FOR ADDITIONAL NOTES AND E-301 DETAIL 3 FOR DUCTBANK DETAIL.
2. RECONNECT EXISTING OUTLETS TO THE LPP PANEL USING THE NOTED CIRCUIT. WHERE SPLICING INTO THE EXISTING CIRCUIT IS NOT FEASIBLE DUE TO SITE CONDITIONS, PROVIDE A HOMERUN FROM THE PANEL TO THE OUTLETS.
5. PROVIDE A 100A SHUNT TRIP BREAKER FOR ELEVATOR POWER IN PANEL (E)DP1, SPACE #1. PROVIDE CONDUIT AND WIRING FROM SHUNT TRIP BREAKER TO ELEVATOR CONTROLLER AND DISCONNECTS AS REQUIRED. SIZE WIRING PER SHUNT TRIP MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE DATA DROP FOR WIRELESS ACCESS POINT. PROVIDE NEMA 1 BOX WITH MOUNTING PLATE, AND COORDINATE EXACT MOUNTING HEIGHT WITH C-CONTRACTOR.
7. PROVIDE 6"X8"X4" JUNCTION BOX ABOVE DOOR FOR LOW VOLTAGE WIRING BETWEEN CARD READER, DOOR STRIKES, AND SECURITY PANEL. PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING FROM JB TO THE SECOND FLOOR IT ROOM. REFER TO E701 DETAIL 3 FOR ADDITIONAL INFORMATION.
8. PROPERTY LINE BOX SHALL BE MODIFIED AS NEEDED TO TERMINATE THE NEW SERVICE ENTRANCE CONDUCTORS. PROVIDE ANY PATCHING AND REPAIRS AS NEEDED AND COORDINATE CONDUIT TERMINATION REQUIREMENTS WITH CON EDISON SPECIFICATIONS.
9. PROVIDE A 3-BUTTON RAISE/LOWER AND OPEN/CLOSE LOW VOLTAGE SWITCH FOR CONTROL OF SHADES. PROVIDE ALL REQUIRED CONTROL WIRING RECOMMENDED BY THE MANUFACTURER BETWEEN THE SHADE SWITCH AND THE SHADE MOTORS IN 3/4" CONDUIT.
10. PROVIDE DISCONNECT SWITCH FOR HAND DRYER INSTALLED ABOVE THE CEILING. PROVIDE LABEL INDICATING "HAND DRYER DISCONNECT"
11. RECONNECT THE BRANCH CIRCUIT FOR THE CIRCULATION PUMP. SPICE AND EXTEND EXISTING WIRING AS NEEDED. COORDINATE THE EXACT LOCATION WITH THE P-CONTRACTOR.
12. PROVIDE POWER TO HVAC-1 VIA NEW VFD PROVIDED BY H-CONTRACTOR AND INSTALLED BY E-CONTRACTOR. PROVIDE A 3 POLE 100A CIRCUIT BREAKER IN SPACE MADE AVAILABLE BY REMOVAL OF EXISTING 40A BREAKER IN EXISTING EDP PANEL. THE EXACT LOCATION IN THE FIELD AND PROVIDE MOUNTING SUPPORTS AS NEEDED.
13. PROVIDE NEMA 3R DISCONNECT FOR PUMP SP-1 AND ALL REQUIRED WIRING AND CONDUIT BETWEEN SWITCH AND PUMP CONTROLLER. INSTALL PUMP CONTROLLER, AND WIRING BETWEEN CONTROLLER AND SENSOR.
14. SUPPORT RECEPTACLE BACKBOX AND RMC CONDUIT FROM CAGE STRUCTURE. COORDINATE EXACT LOCATION WITH C-CONTRACTOR BEFORE INSTALLING RECEPTACLE. WHERE NECESSARY, PROVIDE KINDORF SUPPORTS TO SUPPORT THE RECEPTACLE AND RACEWAY.
15. PROVIDE (1) 3/4" CONDUIT FOR POWER AND (1) 1" CONDUIT FOR DATA IN TRENCH FROM WALL TO FLOOR BOX. STUB UP DATA CONDUIT ABOVE THE CEILING AND PROVIDE PLASTIC BUSHINGS WITH PULL STRING.
16. SPlice AND EXTEND EXISTING SITE LIGHTING CIRCUIT PROTECTED DURING REMOVAL WORK, AND RECONNECT IT TO AVAILABLE SPARE IN ELP.
17. INSTALL THE ROLL-UP DOOR CONTROL SWITCH AND PROVIDE ALL WIRING AND CONDUIT BETWEEN THE MOTOR DISCONNECT SWITCH AND THE ROLL-UP DOOR CONTROL SWITCH. COORDINATE ALL WIRING REQUIREMENTS WITH MANUFACTURER'S INSTALLATION PROCEDURES.
18. PROVIDE (1) 2P-20A CIRCUIT IN SPARE MADE AVAILABLE BY REMOVAL WORK IN PANEL (E)DP2 FOR POWER TO CUH.
19. PROVIDE A WALL MOUNTED NEMA 4X BOX FOR CARD READER. CORE DRILL EXTERIOR WALL AND PROVIDE A 3/4" CONDUIT FOR WIRING BETWEEN THE CARD READER AND THE JUNCTION BOX ABOVE DOOR FRAME. PROVIDE LINK-SEAL OR OTHER EQUIVALENT SEALANT METHOD TO ENSURE A WATERTIGHT PENETRATION.
20. JB FOR CAMERA. PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING AND PLASTIC BUSHINGS FROM CAMERA LOCATION TO IT ROOM ON THE SECOND FLOOR.
21. PROVIDE 4" SLEEVES CAPED ON BOTH ENDS. PROVIDE LINK-SEALS AND ENSURE WATER TIGHT PENETRATION OF EXISTING EXTERIOR WALL. COORDINATE WORK WITH C-CONTRACTOR AND OTHER TRADES.

TERMINATE CONDUIT AT NEW 16"X16"X4" PULL BOX AT CEILING LEVEL FOR EXISTING FIBER SERVICE.

PANELBOARD:					LLP											
LOCATION: ELEC 120					VOLTAGE: 120/208 Wye					A.I.C. RATING: 22						
FED FROM: MDP					PHASES: 3					BUS RATING 200A						
MOUNTING TYPE: SURFACE					WIRE#: 4					ENCLOSURE: Type 1						
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	OCP	POLE	A		B		C		POLE	OCP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT	
1	FACP	2#12+1#12G IN 3/4"C	20 A	1	500	542					1	20 A	2#12+1#12G IN 3/4"C	LTG- 102B,102A	2	
3	LTG - MULTI PURPOSE 117	2#10+1#10G IN 3/4"C	20 A	1			359	42				1	20 A	2#12+1#12G IN 3/4"C	LTG ELEVATOR PIT	4
5	LTG - STAIR	2#12+1#12G IN 3/4"C	20 A	1					202	471		1	20 A	2#12+1#12G IN 3/4"C	LTG-111,116	6
7	LTG,112	2#10+1#10G IN 3/4"C	20 A	1	598	565					1	20 A	2#12+1#12G IN 3/4"C	LTG FITNESS 110, STORAGE...	8	
9	EXIT SIGNS FIRST FL	2#12+1#12G IN 3/4"C	20 A	1			230	616			1	20 A	2#12+1#12G IN 3/4"C	LTG - RM 0109,106, 108	10	
11	LTG - RM 102B , 102A	2#12+1#12G IN 3/4"C	20 A	1					502	541	1	20 A	2#12+1#12G IN 3/4"C	LTG - RM 117	12	
13	Lighting		20 A	1	1,500											14
15																16
17																18
19																20
21																22
23																24
25																26
27																28
29																30
TOTAL VA:					3692 VA		1240 VA		1711 VA							
TOTAL AMPS:					31 A		10 A		15 A							
LOAD CLASSIFICATION			CONN. LOAD			DEMAND FACTOR			EST. DEMAND			TOTALS				
HVAC			500 VA			100.00%			500 VA			TOTAL CONN. VA: 6642 VA				
Lighting - Dwelling Unit			50 VA			100.00%			50 VA			TOTAL CONN. AMPS: 18 A				
Other			1766 VA			100.00%			1766 VA			TOTAL DEMAND VA: 6642 VA				
Lighting			4332 VA			100.00%			4332 VA			TOTAL EST. DEMAND AMPS: 18 A				

PANELBOARD:				(E)EDP1											
LOCATION: EXISTING MECHANICAL 101				VOLTAGE: 120/208 Wye				A.I.C. RATING: 22K							
FED FROM: MDP				PHASES: 3				BUS RATING 400A							
MOUNTING TYPE: SURFACE				WIRE#: 4				ENCLOSURE: Type 1							
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	OCP	POLE	A		B		C		POLE	OCP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT
1					6,000										2
3							8,000				3	150 A	EXISTING	(E) EKP	4
5									7,000						6
7					552 0										8
9	EXISTING PUMP 1	--	15 A	3			552 0				3	20 A	--	Spare	10
11					552 3,360				552 0						12
13							552 3,360								14
15	EXISTING BOILER	--	15 A	3					552 3,360		3	50 A	4#6+1#10G IN 1" C	HV-2	16
17															18
19					360		360								20
21	EF-7	3#12+1#12G IN 3/4" C	15 A	3			360								22
23									360						24
TOTAL VA:					34564 VA		35564 VA		36064 VA						
TOTAL AMPS:					288 A		298 A		302 A						
LOAD CLASSIFICATION					CONN. LOAD		DEMAND FACTOR		EST. DEMAND		TOTALS				
HVAC					10080 VA		100.00%		10080 VA		TOTAL CONN. VA: 106192 VA				
Heating					25080 VA		100.00%		25080 VA		TOTAL CONN. AMPS: 295 A				
Spare					68872 VA		100.00%		68872 VA		TOTAL DEMAND VA: 106192 VA				
MOTORS					2160 VA		100.00%		2160 VA		TOTAL EST. DEMAND AMPS: 295 A				

PANELBOARD:					(E)EDP2										
LOCATION: EXISTING MECHANICAL 101					VOLTAGE: 120/208 Wye					A.I.C. RATING: 22K					
FED FROM: (E)EDP1					PHASES: 3					BUS RATING: 400A					
MOUNTING TYPE: SURFACE					WIRE#: 4					ENCLOSURE: Type 1					
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	OCP	POLE	A		B		C		POLE	OCP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT
1	SPACE	--	20 A	1	0	--	1,920	1,920			1	--	--	SPACE	2
3															4
5	EXISTING	--	20 A	3					1,920	1,920	3	20 A	--	EXISTING LOAD	6
7					1,920	1,920									8
9							1,920	1,920							10
11	EXISTING LOAD	--	20 A	3					1,920	1,920	3	20 A	--	EXISTING LOAD	12
13					1,920	1,920									14
15	CUH-2	2#10+1#10G IN 3/4"C	20 A	2			1,000	1,000			2	20 A	2#12+1#12G IN 3/4"C	CUH:9	16
17									1,000	1,000					18
19															20
21							1,920	1,920							22
23	EXISTING LOAD	--	20 A	3					1,920	1,920	3	20 A	--	EXISTING LOAD	24
25					1,920	1,920									26
27							6,360	2,860							28
29	HVAC-1	3#3+1#8G IN 1 1/4"C	90 A	3					6,360	4,360	3	100 A	EXISTING	(E)ELP	30
31					6,360	5,860									32
TOTAL VA:					23740 VA		22740 VA		24240 VA						
TOTAL AMPS:					199 A		190 A		203 A						
LOAD CLASSIFICATION					CONN. LOAD		DEMAND FACTOR		EST. DEMAND		TOTALS				
Heating					23080 VA		100.00%		23080 VA		TOTAL CONN. VA: 70720 VA				
Spare					46560 VA		100.00%		46560 VA		TOTAL CONN. AMPS: 196 A				
MOTORS					1080 VA		100.00%		1080 VA		TOTAL DEMAND VA: 70720 VA				
											TOTAL EST. DEMAND AMPS: 196 A				

PANELBOARD:					(E) EKP											
LOCATION: KIT STOR 103B					VOLTAGE: 120/208 Wye					A.I.C. RATING: 22K						
FED FROM: (E)EDP1					PHASES: 3					MCB RATING: 100 A						
MOUNTING TYPE: SURFACE					WIRES#: 4					BUS RATING: 200A						
										ENCLOSURE: Type 1						
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	OCP	POLE	A		B		C		POLE	OCP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT	
1	SPACE	--	--	1	--	--					1	--	--	SPACE	2	
3	SPARE	--	20 A	1			1,000	1,000			1	20 A	--	SPARE	4	
5	SPARE	--	20 A	1					1,000	1,000	1	20 A	--	SPARE	6	
7	HOT FOOD COUNTER REC	--	20 A	1	1,000	1,000					1	20 A	--	FROZEN FOOD CABINET	8	
9	SPARE	--	20 A	1			1,000	1,000			2	20 A	--	RAPID REFRIGERATOR	10	
11	REFRIGERATOR 220V	--	20 A	2					1,000	1,000						
13					1,000	2,000					3	60 A	--	COFFEE MAKER	12	
15	RAPID THAW REFRIGERATOR	--	20 A	2			1,000	2,000								
17									1,000	2,000					14	
19	UH-8	2#12+1#12G IN 3/4"C	20 A	2	1,000										16	
21							1,000									18
23																20
																22
TOTAL VA:					6000 VA		8000 VA		7000 VA							24
TOTAL AMPS:					50 A		68 A		60 A							
LOAD CLASSIFICATION			CONN. LOAD			DEMAND FACTOR			EST. DEMAND			TOTALS				
Heating			2000 VA			100.00%			2000 VA			TOTAL CONN. VA: 21000 VA				
Spare			19000 VA			100.00%			19000 VA			TOTAL CONN. AMPS: 58 A				
												TOTAL DEMAND VA: 21000 VA				
												TOTAL EST. DEMAND AMPS: 58 A				

PANELBOARD:					LPP											
LOCATION: GENERAL STORAGE 104 FED FROM: MDP MOUNTING TYPE: SURFACE					VOLTAGE: 120/208 Wye PHASES: 3 WIRE#: 4					A.I.C. RATING: 22 MCB RATING: 225 A BUS RATING: 400 A ENCLOSURE: Type 1						
CKT	CIRCUIT DESCRIPTION	WIRE SIZE	OCP	POLE	A		B		C		POLE	OCP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT	
1	REC- RM104	2#12+1#12G, 3/4"C	20 A	1	720	720					1	20 A	2#12+1#12G, 3/4"C	REC - FITNESS110+S4	2	
3	REC- RM111- SEC1	2#12+1#12G, 3/4"C	20 A	1			540	1,080				1	20 A	2#12+1#12G, 3/4"C	REC- RM111	4
5	Receptacle		20 A	1					540	720		1	20 A	2#12+1#12G, 3/4"C	REC- RM111	6
7	REC- PRINTER OFFC.112	2#12+1#12G, 3/4"C	20 A	1	180	720					1	20 A	2#12+1#12G, 3/4"C	REC- RM111- QUAD	8	
9	REC- RM116- QUAD	2#12+1#12G, 3/4"C	20 A	1			900	540			1	20 A		Receptacle		10
11	REC- RM116- SEC1	2#12+1#12G, 3/4"C	20 A	1					720	720	1	20 A	2#12+1#12G, 3/4"C	REC- RM116- SEC2		12
13	REC- RM116- SEC3	2#12+1#12G, 3/4"C	20 A	1	720	720					1	20 A	2#12+1#12G, 3/4"C	REC- RM112		14
15	REC- RM117- SEC1	2#12+1#12G, 3/4"C	20 A	1			720	540			1	20 A	2#12+1#12G, 3/4"C	REC- RM117-		16
17	REC- RM118- SEC1	2#12+1#12G, 3/4"C	20 A	1					1,080	540	1	20 A	2#12+1#12G, 3/4"C	REC- RM118- SEC2+S4		18
19	REC- RM102	2#12+1#12G, 3/4"C	20 A	1	1,080	180					1	20 A	2#12+1#12G, 3/4"C	REC- ELEVATOR- GFCH....		20
21	REC- RM120- ELEC- ROOM	2#12+1#12G, 3/4"C	20 A	1			720	720			1	20 A	2#12+1#12G, 3/4"C	REC- FITNESS110		22
23	REC- FITNESS110	2#12+1#12G, 3/4"C	20 A	1					180	180	1	20 A	2#12+1#12G, 3/4"C	REC- FITNESS110		24
25	REC-FITNESS110	2#12+1#12G, 3/4"C	20 A	1	180	720					1	20 A	2#12+1#12G, 3/4"C	REC- ROOM113- EXIST/VAULT		26
27	REC- FB RM 117	2#10+1#10G IN 3/4"C	20 A	1			1,080	1,080			1	20 A	2#12+1#12G, 3/4"C	REC - RESTROOMS 109, 108		28
29	DRINKING FAUNT.	2#12+1#12G, 3/4"C	20 A	1					360	75	1	20 A	2#12+1#12G, 3/4"C	LOWER FLOOR VAV(S)		30
31	REC-FB RM 117	2#10+1#10G IN 3/4"C	20 A	1	1,080	1,080					1	20 A	2#10+1#10G IN 3/4"C	REC- FB RM 117		32
33	EQMNT DEDICATED CKT	2#12+1#12G IN 3/4"C	20 A	1			1,000	152			1	20 A	2#12+1#12G IN 3/4"C	REC- FB RM 117		34
35	REC- RM 117 AV EQUIPMNT	2#12+1#12G IN 3/4"C	20 A	1					360	720	1	20 A	2#12+1#12G IN 3/4"C	LTG- ELEC. 1202, EXTERIOR		36
37	LTG - CORRIDOR	2#12+1#12G IN 3/4"C	20 A	1	629	1,125					3	20 A	2#12+1#12G, 3/4"C	REC - RM 212		38
39	LTG-CORRIDOR C4B	2#12+1#12G IN 3/4"C	20 A	1			360	1,125						OVER HEAD DOOR DRILL HALL		40
41	NEMA-L6 DRILL HALL REC	2#10+1#10G IN 3/4"C	30 A	2	2,496	1,000			2,496	1,125						42
43	EQMNT DEDICATED CKT	2#12+1#12G IN 3/4"C	20 A	1			1,000	1,000			1	20 A	2#12+1#12G IN 3/4"C	EQMNT DEDICATED CKT		44
45	EQMNT DEDICATED CKT	2#10+1#10G IN 3/4"C	20 A	1					1,000	1,000	1	20 A	2#10+1#10G IN 3/4"C	EQMNT DEDICATED CKT		46
47	DEDICATED-VAULT-CKT	2#10+1#10G IN 3/4"C	20 A	1	1,000	1,000					1	20 A	2#10+1#10G IN 3/4"C	DEDICATED VAULT CKT2		48
49	PROJECTOR RECPTACLE	2#12+1#12G IN 3/4"C	20 A	1			2,000				1	20 A	2#12+1#12G IN 3/4"C	PROJECTOR SCREEN		50
51																52
53																54
55																56
57																58
59																60
61																62
63																64
TOTAL VA:					15349 VA		14535 VA		11816 VA							
TOTAL AMPS:					131 A		125 A		98 A							
LOAD CLASSIFICATION			CONN. LOAD		DEMAND FACTOR		EST. DEMAND		TOTALS							
Equipment			8727 VA		100.00%		8727 VA		TOTAL CONN. VA: 41700 VA							
HVAC			3000 VA		100.00%		3000 VA		TOTAL CONN. AMPS: 116 A							
Lighting - Dwelling Unit			50 VA		100.00%		50 VA		TOTAL DEMAND VA: 32310 VA							
Other			75 VA		100.00%		75 VA		TOTAL EST. DEMAND AMPS: 90 A							
Receptacle			28780 VA		67.37%		19390 VA									
Lighting			1078 VA		100.00%		1078 VA									