

NOT FOR CONSTRUCTION

KEYNOTE LEGEND

GENERAL CODE PLAN NOTES

1. Fire ratings are shown based on code minimum requirements for fire barriers, fire walls and partitions. Penetrations through fire-rated construction and fire-rated joint system shall match or exceed these ratings.

CODE PLAN LEGEND

- Limit of Work
- Property Line
- Egress Path
- Accessible Route
- Smoke Rated Wall / Partition
- Smoke Barrier (1-HR)
- 30-Min Rated Wall / Partition
- 1-HR Rated Wall / Partition
- 2-HR Rated Wall / Partition
- 3-HR Rated Wall / Partition

ROOM TAG LEGEND

- Room Name
- Room Number
- 150 SF
- Room Area
- 100 OCC
- Occupant Load (when individually calculated)

PWWG PROJECT NUMBER	22304.00	
CONSTRUCTION DOCUMENTS	08/02/24	
REVISIONS		
NO.	DESCRIPTION	DATE
1	Addendum #3	09/25/2024

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208 University Drive
West Liberty, WV 26074
West Liberty University - Amett Hall

CODE PLANS

G-002

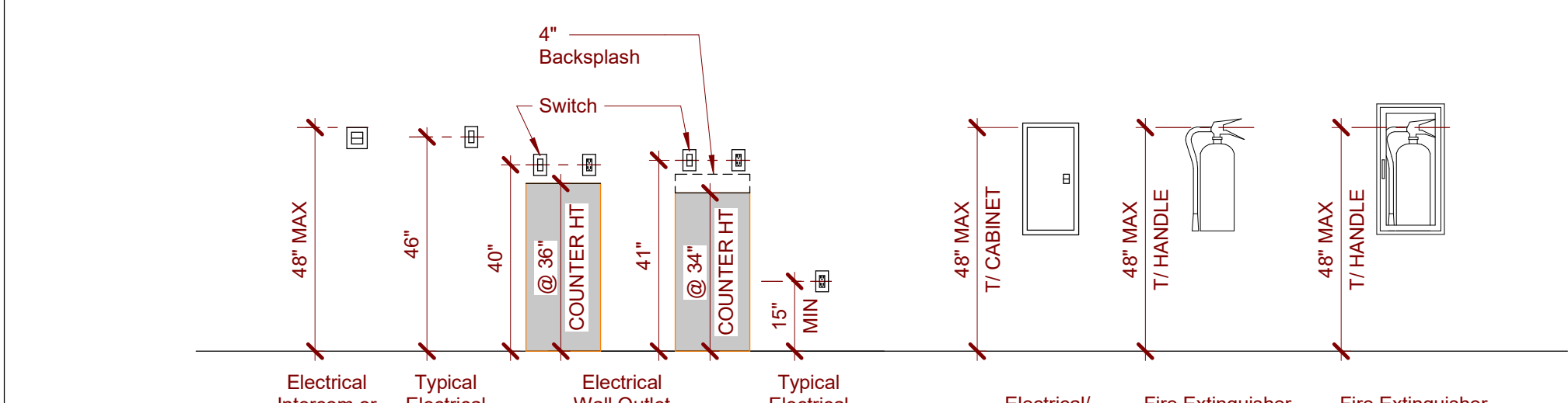
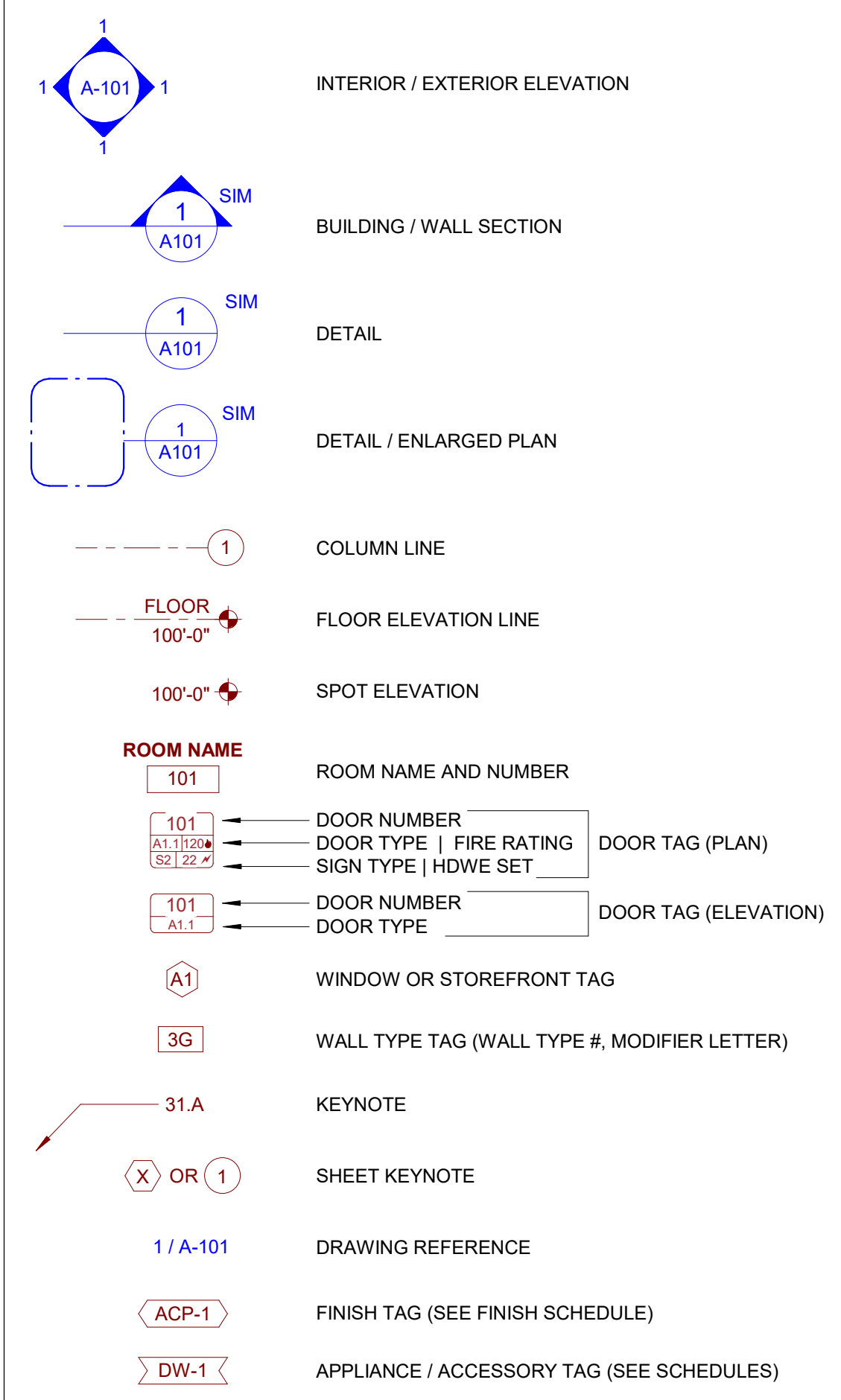
GENERAL PROJECT NOTES

1. The Contractor is responsible for complying with all applicable codes.
2. The Contractor shall verify all dimensions in the field. Report discrepancies to the architect for decisions prior to proceeding with the work. Do not scale the drawings.
3. The Third Floor Top of Slab Elevation of 100'-0" on the architectural drawings.
4. Provide suitable blocking in MTL stud walls for all wall mounted materials, equipment, fixtures, and accessories.

NON-STRUCTURAL DEMOLITION NOTES

1. Remove all loose items and debris in the limit of work area. Salvage any historic items, including Owner's stored / salvaged materials.
2. The structural framing and bearing conditions shown on the drawings are based on limited existing building drawings and limited access to and observation of structural members. Verify walls are non structural prior to demolition. Where structural conditions not shown on the drawings are discovered, the contractor shall report any discrepancies between the drawings and actual conditions to the architect promptly before proceeding.
3. Refer to materials symbols legend & reference symbols legend, and Specification Section 024119 for items to be removed or to remain. Demolition Keynotes are intended to provide additional information but are not all-inclusive.
4. All equipment locations are approximate.
5. Provide safety barricades per OSHA regulations.
6. Owner to abate floor tile from work area. Owner will remove, salvage and store all casework and wall cabinets at a nearby storage area. Contractor to verify this location.
7. Reference Only - Third Floor Original Lab Casework & Equipment Layout Plan - see drawing 2 on A-103. All items will be stored at a nearby storage area. Items shown on drawing 2 on A-103 are shown for reference for re-installation, if required.
8. Refer to sheet A-401 for additional wall mounted items that are to remain.

SYMBOLS

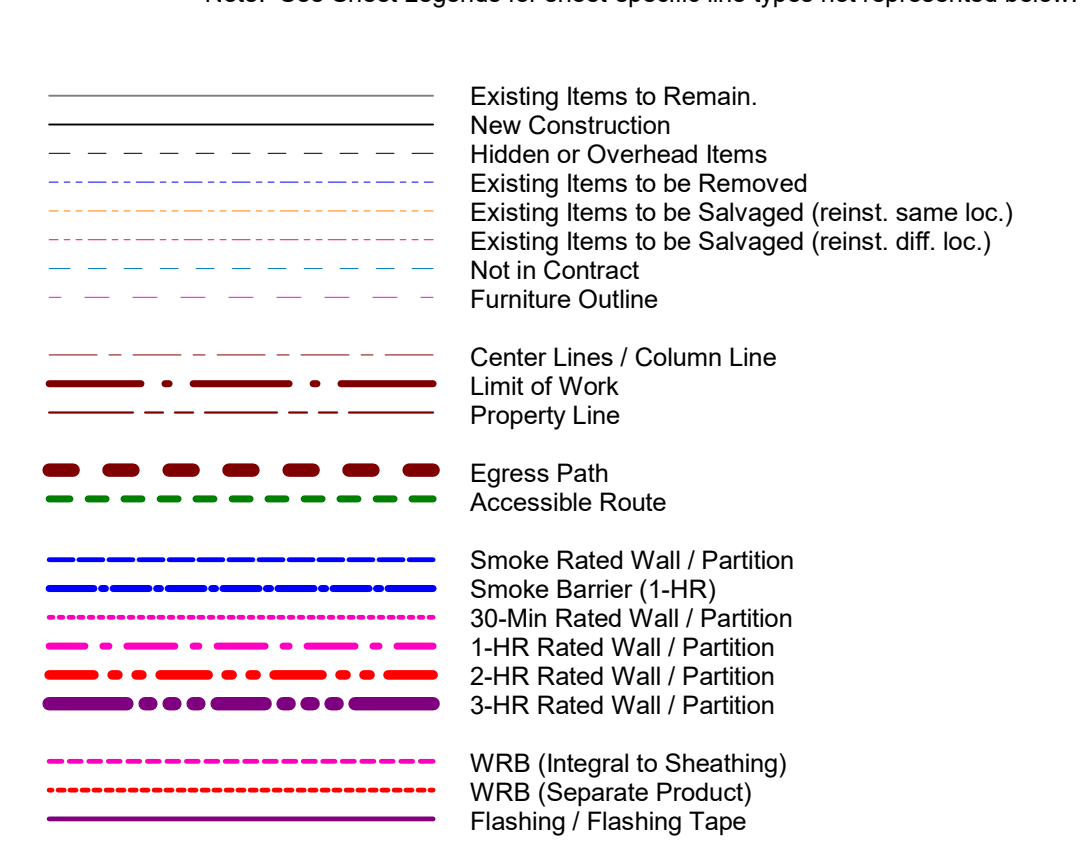


TYPICAL MOUNTING HEIGHTS 2
3/8" = 1'-0" G-002

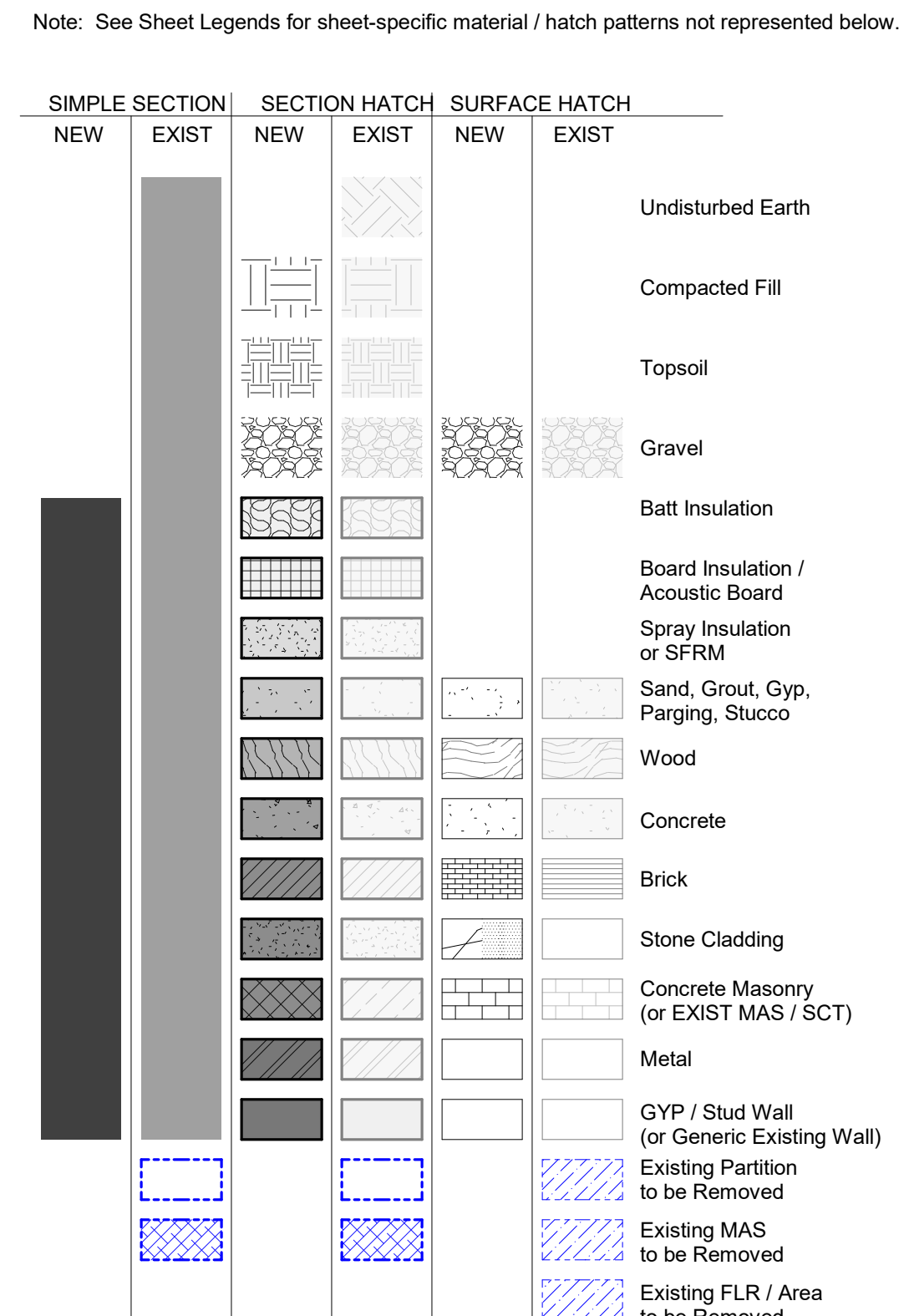
ABBREVIATIONS

ABV	Above	GWB	Gypsum Wall Board
ACC	Accessible	GYP	Gypsum
ACW	Aluminum Clad Wood	GYP BD	Gypsum Board
ADA	Americans with Disabilities Act	HC	Hollow Core
ADJ	Adjacent	HDWD	Hardwood
AF	Above Finished Floor	HM	Hollow Metal
ALT	Alternate	HT	Height
ALUM	Aluminum	IHM	Insulated Hollow Metal
ANSI	American National Standards Institute	INCL	Include(s)(ing)
APC	Acoustic Panel Ceiling	INSUL	Insulation
APPROX	Approximate	INT	Interior
ASF	Above Sub-Floor	KIT	Kitchen
B.O.	Bottom of	LAU	Laundry
BD	Board	LAV	Lavatory
BH	Bulkhead	LF	Linear Feet
BLW	Below	LH	Left-Hand
BOD	Basis of Design	LSF	Light Gauge Steel Framing
BOH	Back of House	MAS	Masonry
BR	Bedroom	MATL	Material
BRG	Bearing	MAX	Maximum
BTW	Between	MDF	Medium Density Fiberboard
BTWN	Between	MECH	Mechanical
BYND	Beyond	MFR	Manufacturer
C TO C	Center to Center	MISC	Miscellaneous
CFS	Clear Floor Space	MO	Masonry Opening
CPS	Cast-in-Place	MTL	Metal
CJ	Control Joint	N	North
CL	Center Line	N/A	Not Applicable
CLG	Ceiling	NIC	Not in Contract
CLD	Closet	NRC	Noist Reduction Coefficient
CLR	Clear	NTS	Not to Scale
CMU	Concrete Masonry Unit	O TO O	Out to Out
CO	Clean-Out	OA	Overall
COL	Column	OC	On Center
CONC	Concrete	OFCI	Owner Furnished / Contractor Installed
CONSTR	Construction	OFOI	Owner Furnished / Owner Installed
CONT	Continuous	OH	Opposite Hand
CORR	Corridor	OPNG	Opening
CPT	Carpet	OPP	Opposite (Hand)
CPTY	Capacity	PT	Paint(ed)
CT	Ceramic Tile	PTL	Pressure Treated Lumber
CTR	Center	PVC	Polyvinyl Chloride
DAPS	Direct-Applied Finish System	R	Radius, Riser, Thermal Resistance Value
DBL	Double	RB	Resilient Base
DEMO	Demolition	RCP	Reflected Ceiling Plan
DH	Double-Hung (Window)	RD	Roof Drain
DIA	Diameter	REQ'D	Required
DIM	Dimension	REQ'S	Requirements
DN	Down	RF	Resilient Flooring
DWGS	Drawings	RH	Right-Hand
E	East	RM	Room
EA	Each	RO	Rough Opening
EIFS	Exterior Insulation and Finish System	RWC	Rainwater Conductor
EJ	Expansion Joint	S	South
ELEC	Electrical	SC	Solid Core
ELEV	Elevator	SF	Square Feet
ELEV	Elevation	SFRM	Spray-Applied Fire-Resistive Materials
EOS	Edge of Structure/Slab	SH	Single Hung
EOS	Edge of Slab	SM	Similar
EPS	Expanded Polystyrene Board (Insulation)	SPEC	Specification
EQ	Equal	SO	Square
EQUIP	Equipment	SST	Stainless Steel
ETR	Existing to Remain	STC	Sound Transmission Class
EX	Existing	STF	Storefront
EXIST	Existing	STL	Steel
EXT	Exterior	STO	Storage
FBG	Fiberglass	STRUCT	Structure
FE	Fire Extinguisher	T	Tread
FIN	Finish	T&G	Tongue and Groove
FLR	Floor	T/	Top of
FND	Foundation	TRANSP	Transparent
FOH	Front of House	TYP	Typical
FRJS	Fire Resistant Joint System	UNO	Unless Noted Otherwise
FRMG	Framing	VAR	Varies
FRP	Fiber Reinforced Plastic	VCT	Vinyl Composition Tile
FRR	Fire Resistance Rating	VIF	Verify in Field
FT	Foot, Feet	W	West
FTG	Footing	WI	With
FX	Fixed (Window)	W/O	Without
GA	Gage	WD	Wood
GALV	Galvanized	WWF	Welded Wire Fabric
GC	General Contractor	XPS	Extruded Polystyrene Board (Insulation)
GL	Glass		
GR	Guest Room		

PROJECT LINE SYMBOLS LEGEND



PROJECT MATERIALS LEGEND



GENERAL PROJECT DESCRIPTION

Renovation of a research laboratory within Amett Hall, built in 1973. Existing structure consists of cmu walls, brick and cast stone veneer, and concrete floors & roof slabs.

APPLICABLE CODES

(With West Virginia Fire Commission Amendments)	
WV Title 57, Series 1 Fire Code:	National Fire Codes, NFPA 1, 2021
WV Title 57, Series 4 State Building Code:	2018 International Building Code (IBC)
Including but not limited to:	
Life Safety Code:	NFPA 101 Life Safety Code, 2021
Plumbing Code:	2018 International Plumbing Code (IPC)
Mechanical Code:	2018 International Mechanical Code (IMC)
Electrical Code:	National Electric Code, NFPA 70, 2020
Energy Code (commercial):	ANSI/ASHRAE/IESNA Standard 90.1, 2013
Gas Code:	2018 International Fuel Gas Code (IFGC)
Accessibility Code:	ICC/ANSI A117.1, 2017 plus 2010 ADA Standards for Accessible Design

EXISTING BUILDING CODE

Reference	Proposed	Existing	Required / Allowed	Notes
Historic Status	IEBC 1201	no change	No	
Classification of the Work	IEBC 501	Level 2	-	
Energy Conservation	IEBC 907	New Work Only	-	Compliance with IECC limited to New Const

BUILDING DATA

Reference	Proposed	Existing	Required / Allowed	Notes
Construction Type	IBC 602	no change	IB	
Occupancy Classification	IBC 302	no change	B	
Height	IBC 504	no change	<40'	79' Max
Stories Above Grade Plane	IBC 504	no change	0	3 Max
Stories Below Grade Plane (Occ)	IBC 504	no change	0	
Max Building Area per Floor	IBC 506	no change	12,273	43,500
Building Area Below Grade	IBC 506	no change	0	
Total Building Area	IBC 506	no change	36,819	130,500
Total Occupied Stories	IBC 504	no change	3	
HT to Highest Occupied Floor	PGH Amend	no change	<40'	
High-Rise Status	PGH Amend	no change	No	

LIFE SAFETY SYSTEMS

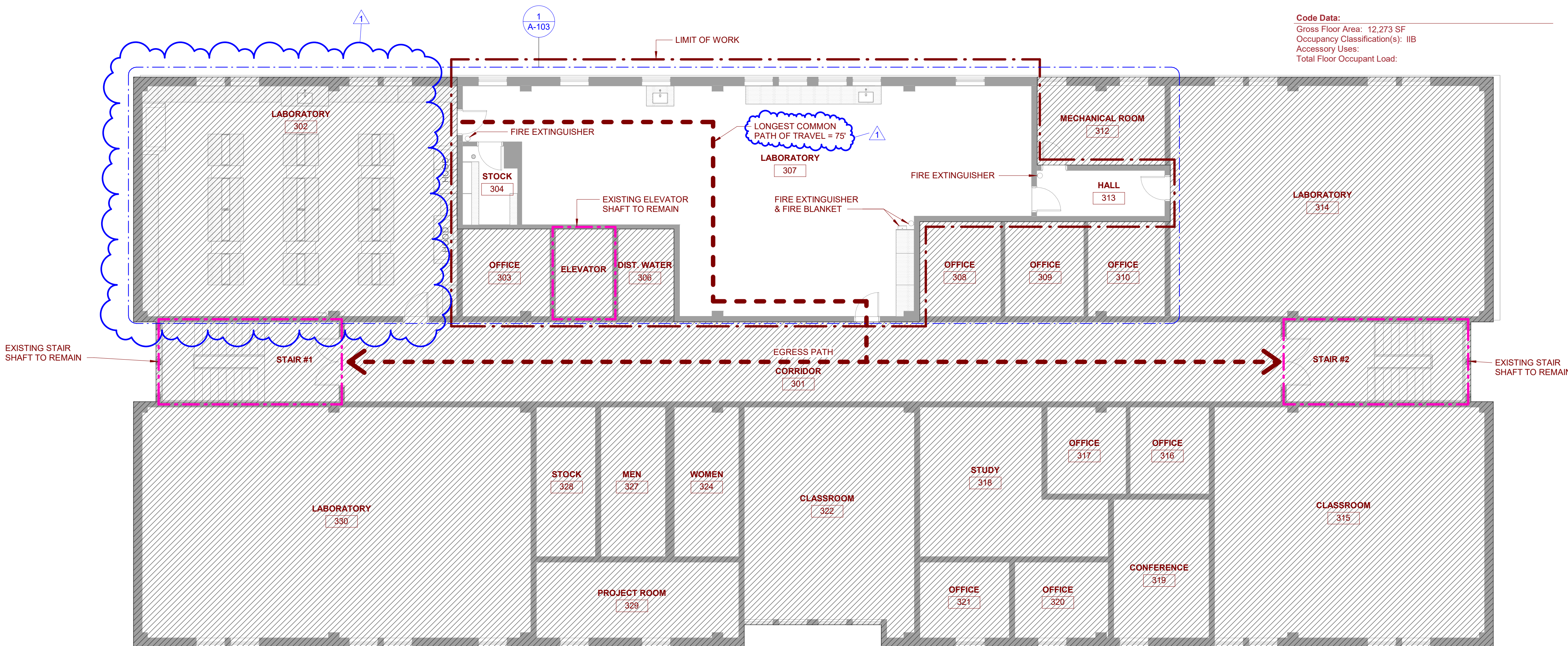
Reference	Proposed	Existing	Required / Allowed	Notes
Sprinkler System	IBC 903	no change	NFPA 13	NFPA 13 Minimum
Standpipe System	IBC 905	no change	Automatic / Wet	n/a No work required under level 2

MEANS OF EGRESS SYSTEMS

Reference	Proposed	Existing	Required / Allowed	Notes
Number of Exits per Floor	IBC 1006.1	no change	2 Stairs	Existing to remain
Common Path of Travel	IBC 1029.8	See Plans	-	100' Max
Exit Access Travel Distance	IBC 1017	no change	-	300' Max

FIRE RATINGS

Reference	Proposed	Existing	Required / Allowed	Notes
Primary Structural Frame	IBC 602	no change	None	None
Exterior Bearing Walls	IBC 602	no change	None	None
Interior Bearing Walls	IBC 602	no change	None	None
Floor Construction/Structure	IBC 602	no change	None	None
Roof Construction/Structure	IBC 602	no change	None	None
Exit Enclosures	IBC 1023.2	no change	1-HR	1-HR
Shaft Enclosures < 4 Stories	IBC 713.4	no change	1-HR	1-HR
Corridors	IBC 708.3/1020.1	no change	None	None

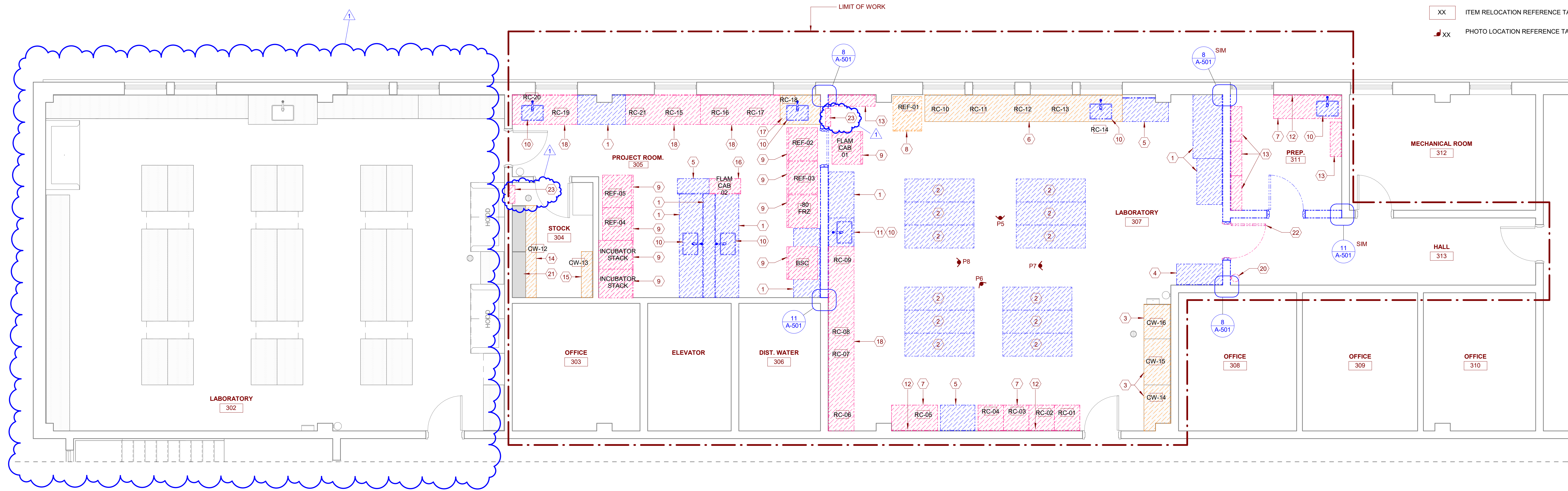


Code Data:
Gross Floor Area: 12,273 SF
Occupancy Classification(s): IIB
Accessory Uses:
Total Floor Occupant Load:

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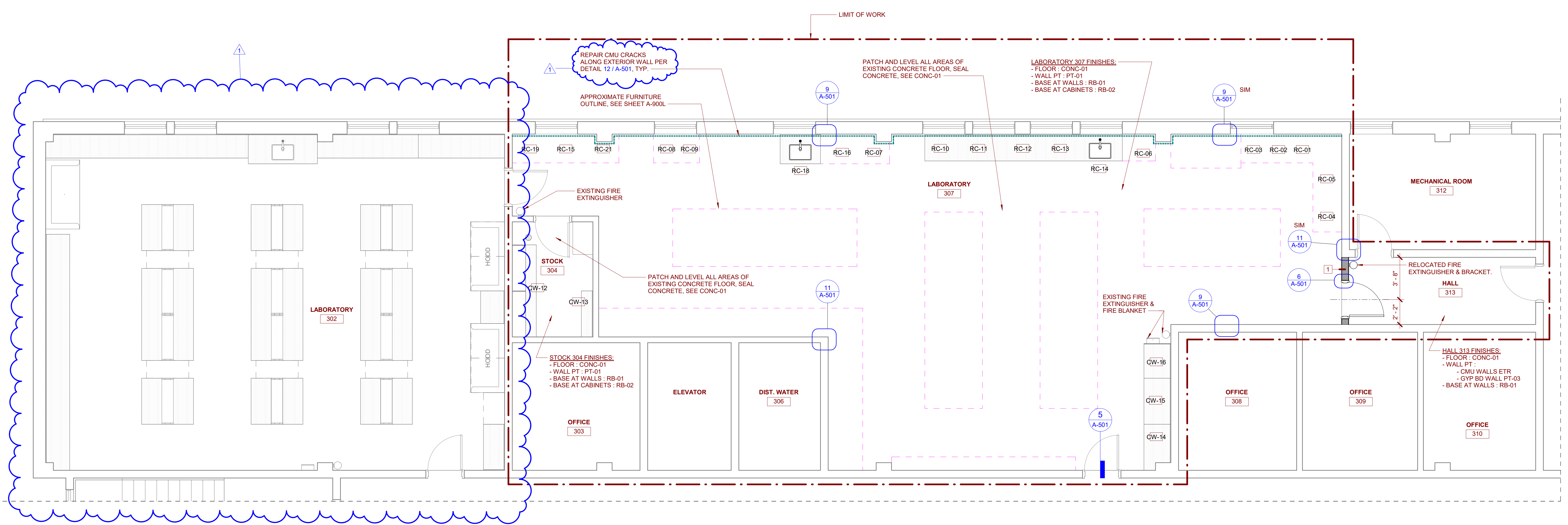
REFERENCE LEGEND

	EXISTING ITEM TO REMAIN IN PLACE
	EXISTING ITEM TO BE SALVAGED & REINSTALLED IN SAME LOCATION
	EXISTING ITEM TO BE SALVAGED & REINSTALLED IN NEW LOCATION. SEE LAB SHEETS FOR NEW LOCATIONS
	EXISTING ITEM TO BE DEMOLISHED
	ITEM RELOCATION REFERENCE TAG
	PHOTO LOCATION REFERENCE TAG



- SHEET KEYNOTES - DEMO
- DEMOLISH BASE CABINETS & COUNTERTOP. DEMOLISH ROLLING TABLE.
 - SALVAGE BASE CABS, WALL CABS. REINSTALL CABINETS & COUNTERTOP IN SAME LOCATION. DEMOLISH BASE AND WALL CABINETS.
 - DEMOLISH TALL STORAGE.
 - SALVAGE BASE CABINETS & REINSTALL CABINETS IN SAME LOCATION.
 - SALVAGE BASE CABS. DEMO COUNTERTOP. REINSTALL BASE CABINET IN NEW LOCATION.
 - EXISTING EQUIPMENT TO REMAIN IN EXISTING LOCATION.
 - EXISTING EQUIPMENT TO BE RELOCATED.
 - DEMOLISH SINK.
 - DEMOLISH SINK BASE CABINET.
 - DEMOLISH WALL CABINETS.
 - SALVAGE AND RELOCATE TALL CABINET.
 - SALVAGE BASE CABINET. REINSTALL CABINET IN SAME LOCATION.
 - SALVAGE TALL CABINET. REINSTALL TALL CABINET IN SAME LOCATION.
 - SALVAGE AND RELOCATE STORAGE CABINET.
 - SALVAGE SINK BASE CABINET. DEMO COUNTERTOP. REINSTALL SINK BASE CABINET IN SAME LOCATION.
 - SALVAGE BASE CABINETS. REINSTALL CABINETS IN NEW LOCATION.
 - RELOCATE EXISTING FIRE EXTINGUISHER & BRACKET.
 - EXISTING WALL CABS TO REMAIN IN PLACE.
 - SALVAGE EXISTING WOOD DOOR & HARDWARE FOR REUSE.
 - REMOVE AND RELOCATE ELECTRICAL SUBPANEL AS NOTED IN LAB SHEETS AND MEP NARRATIVE.

REFERENCE ONLY - THIRD FLOOR ORIGINAL LAB CASEWORK & EQUIPMENT LAYOUT PLAN | 2
1/4" = 1'-0" A-103



PWWG PROJECT NUMBER	22304.00	
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1	Addendum #3	09/25/2024

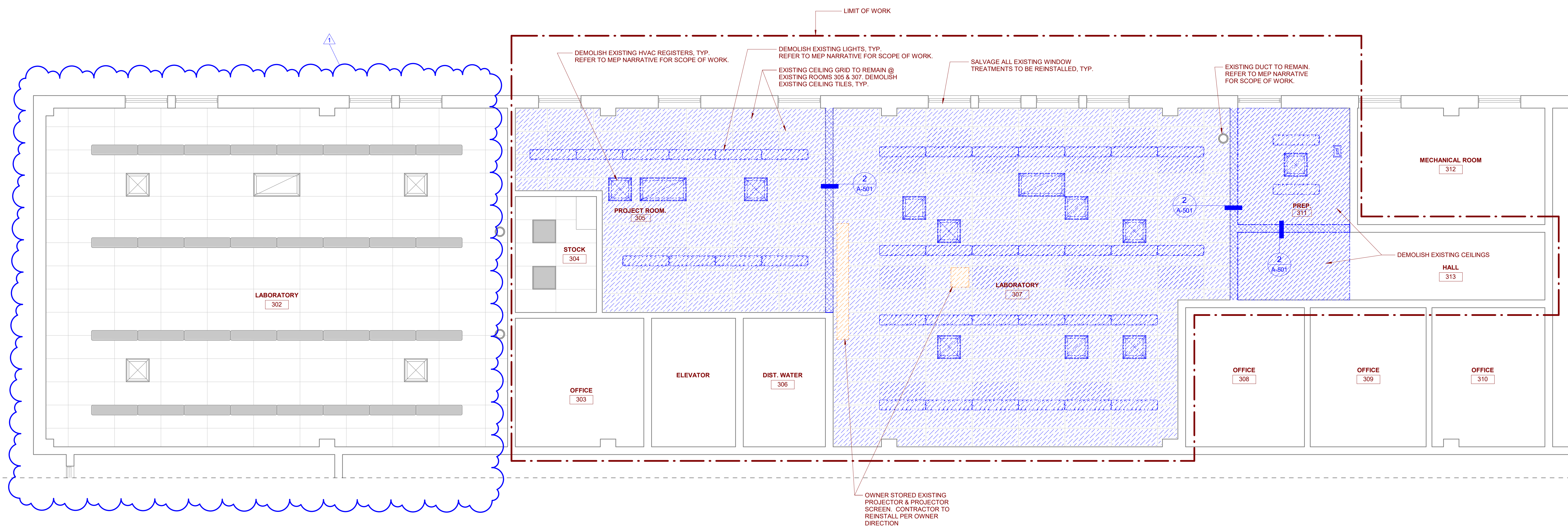
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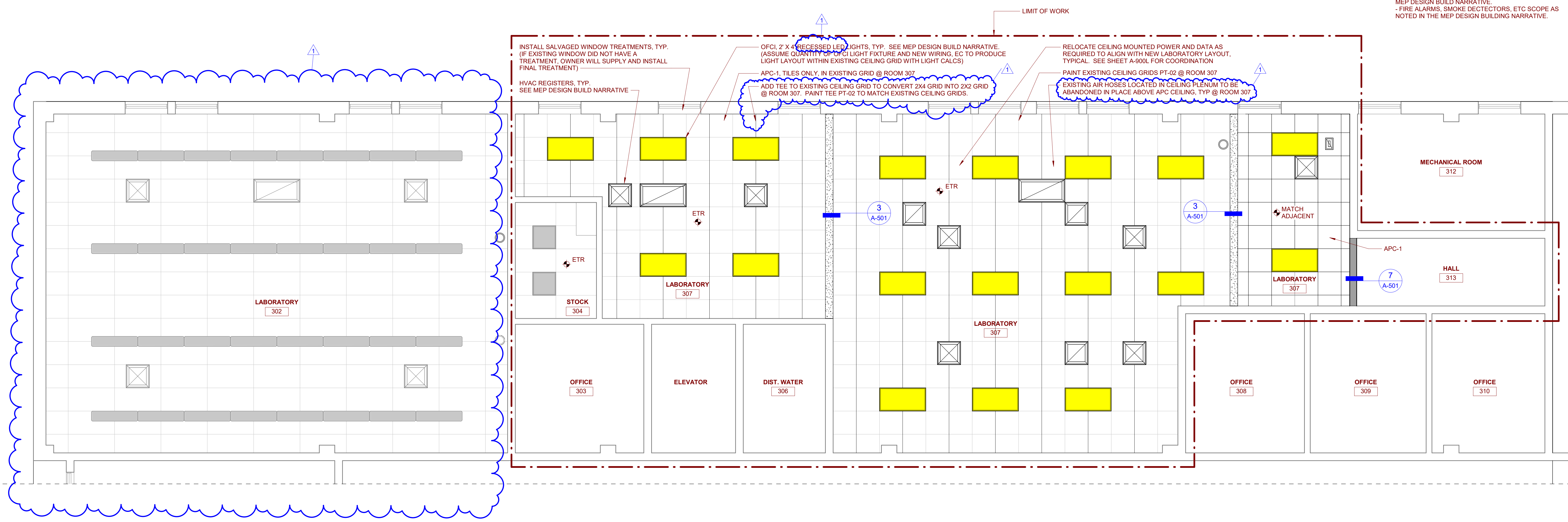
THIRD FLOOR PLAN

9/24/2024 5:28:33 PM A-103 - THIRD FLOOR PLAN, REV #1 (Addendum #2)

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THIRD FLOOR REFLECTED CEILING DEMOLITION PLAN | 2
1/4" = 1'-0" | A-103c



PROPOSED THIRD FLOOR REFLECTED CEILING PLAN | 1
1/4" = 1'-0" | A-103c

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THIRD FLOOR
REFLECTED CEILING
PLAN

A-103c

9/24/2024 5:26:36 PM A-103c - THIRD FLOOR REFLECTED CEILING PLAN, REV. #1 (Addendum #2)

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EXISTING LIGHT FIXTURES, SEE NOTES ON A-103c FOR SCOPE, TYP.

EXISTING PROJECTOR SCREEN, SEE NOTES ON A-103c FOR SCOPE, TYP.

EXISTING HVAC REGISTERS, SEE NOTES ON A-103c FOR SCOPE, TYP.

EXISTING CEILING MOUNTED OUTLETS, SEE NOTES ON A-103c FOR SCOPE, TYP.

EXISTING DUCT TO REMAIN AND RECEIVE PAINT

RELOCATE ELECTRICAL ITEMS LOCATED IN WALLS TO BE DEMOLISHED, TYPICAL

EXISTING SURFACE MOUNTED RACEWAYS AND ELECTRICAL BOXES TO REMAIN, TAPE OFF AND PAINT AROUND AS REQUIRED, TYPICAL

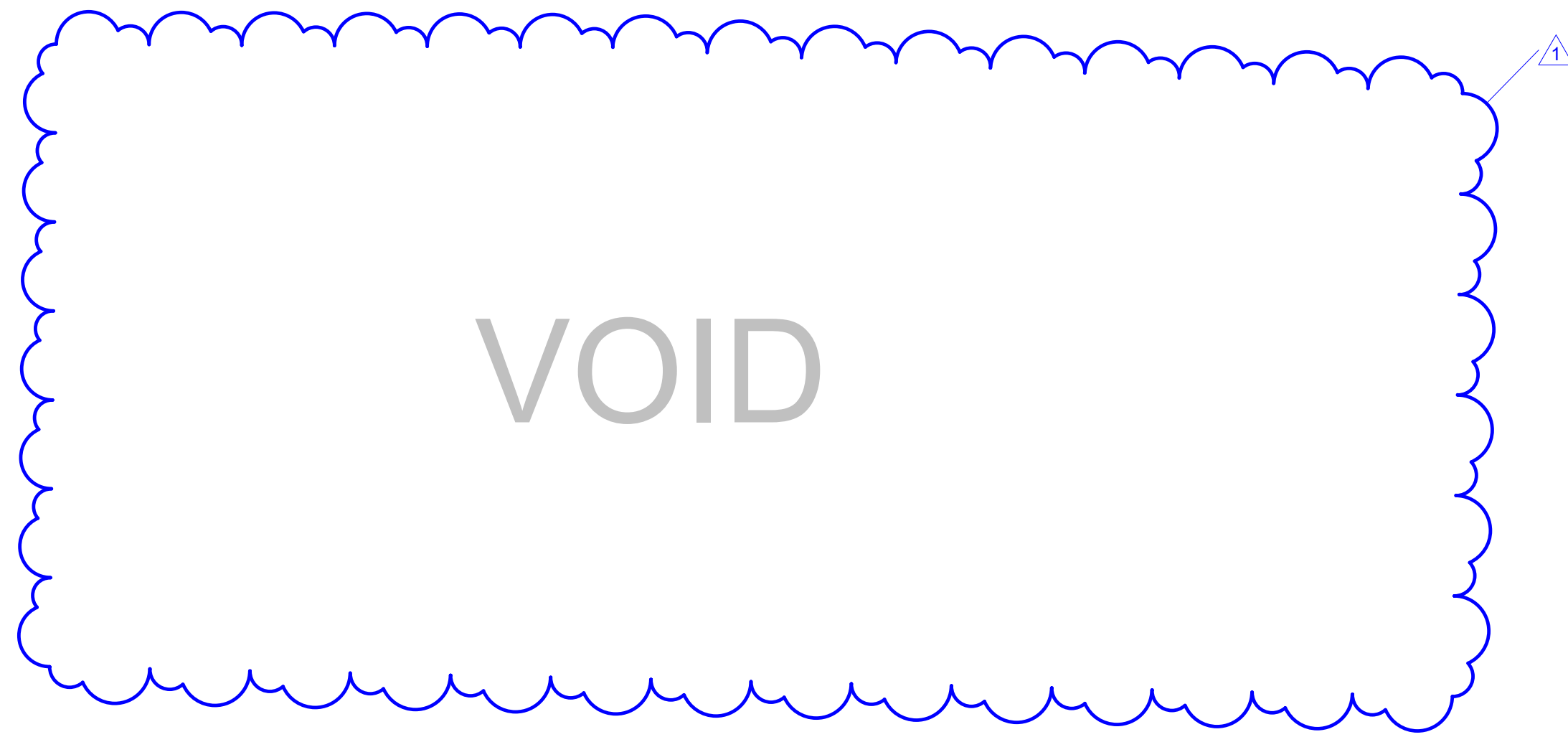
MISC. EXISTING SURFACE MOUNTED ITEMS TO REMAIN, TAPE OFF AND PAINT AROUND AS REQUIRED, TYPICAL

EXISTING CMU WALLS TO RECEIVE PAINT, TYPICAL

EXISTING AIR HOSES LOCATED IN CEILING PLENUM TO BE ABANDONED IN PLACE ABOVE APC CEILING, TYP.

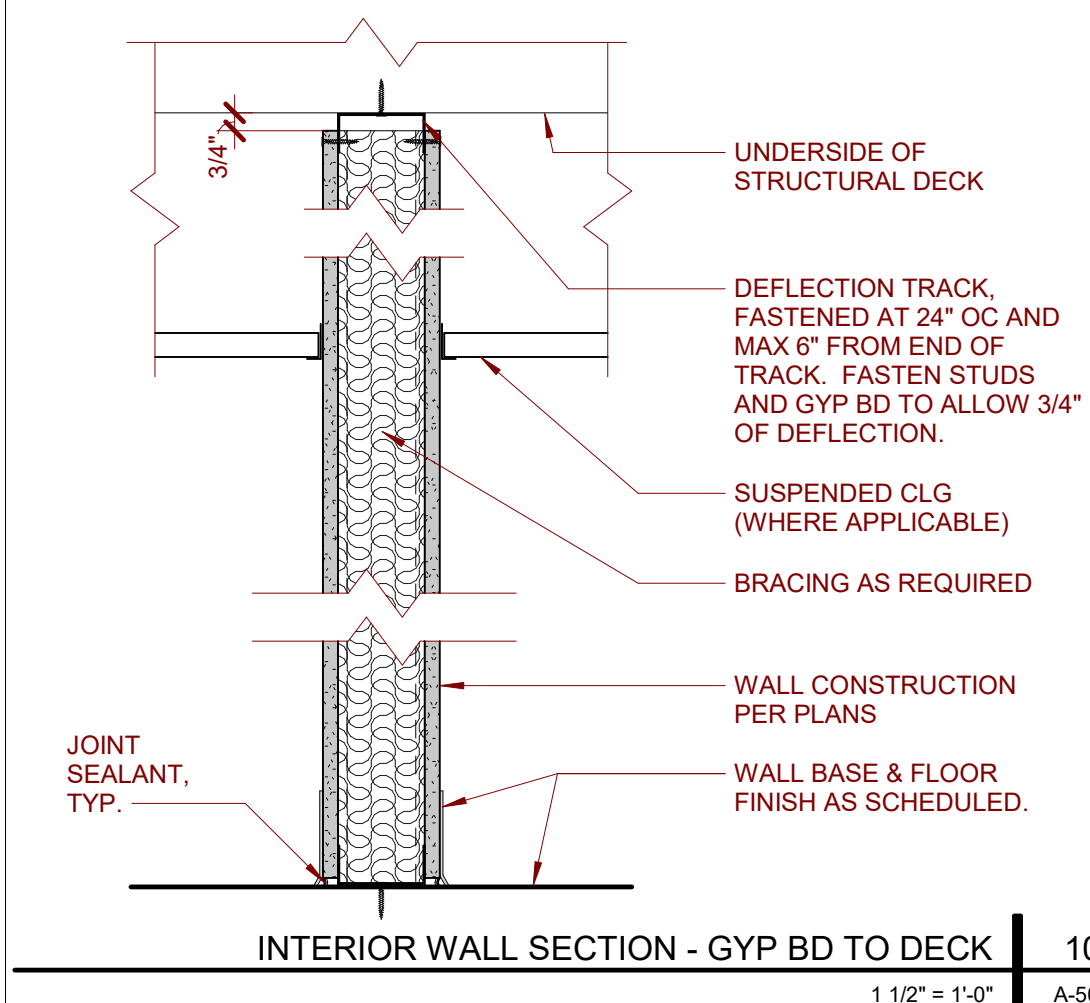
EXISTING SPRINKLER HEADS, SEE NOTES ON A-103c FOR SCOPE, TYP.

REMOVE EXISTING UNUSED WALL MOUNTED WINDOW TREATMENT BRACKETS, PAINT, TYPICAL

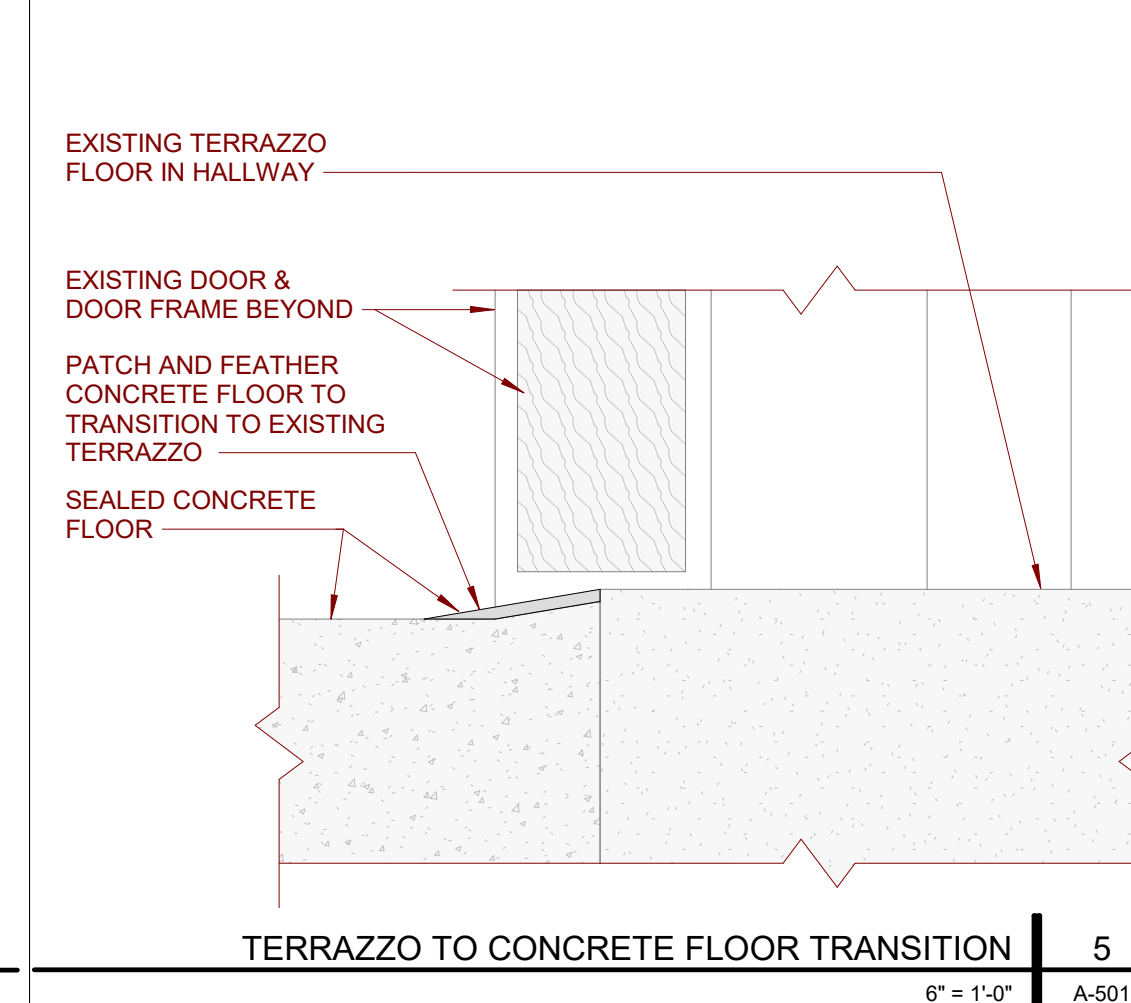


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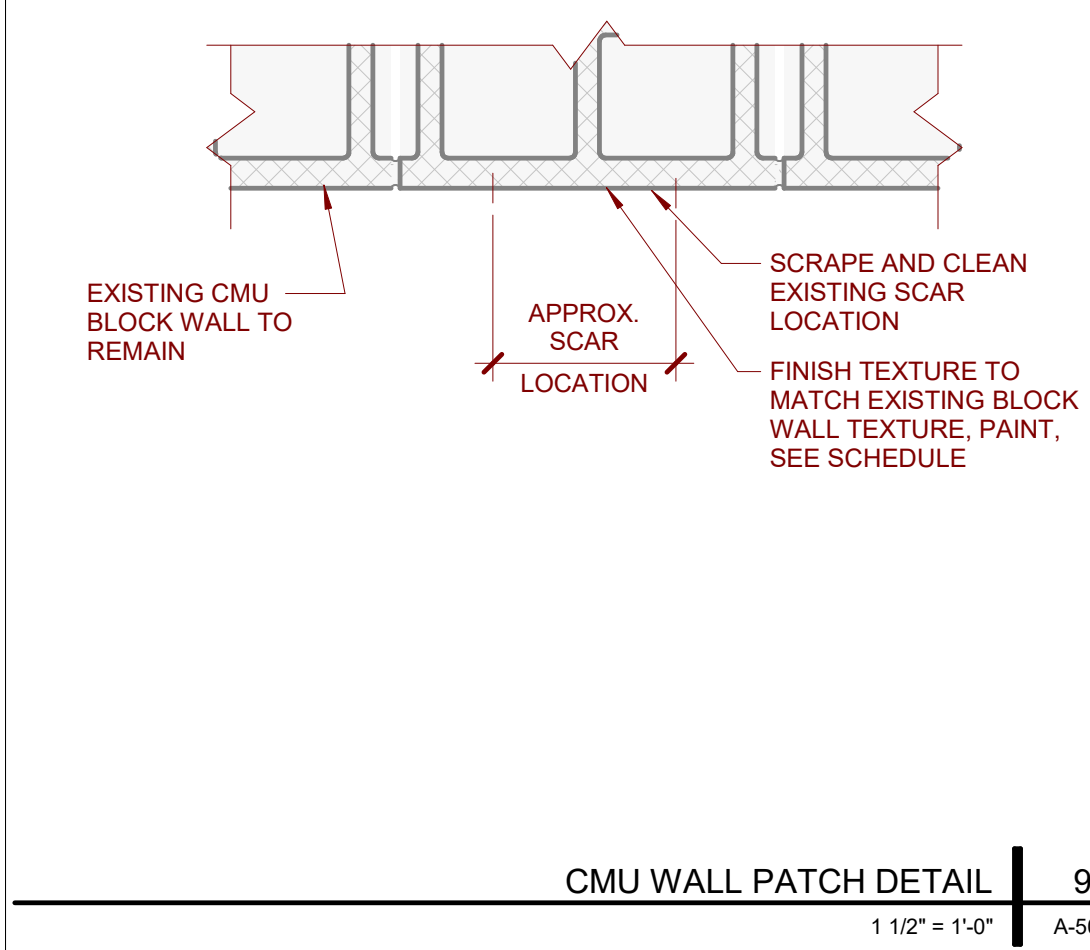
FINISHES					
TYPE MARK	FINISH DESCRIPTION	MANUFACTURER	PRODUCT LINE	COLOR/STYLE	NOTES
PAINT					
PT-01	PAINT	SHERWIN WILLIAMS		TBD	WALL COLOR
PT-02	PAINT	SHERWIN WILLIAMS		BLACK	CEILING GRID AND TEE COLOR
PT-03	PAINT	SHERWIN WILLIAMS		MATCH EXISTING	MATCH CMU WALL COLOR IN HALL 313
MC-01	CLEAR MASONRY SEALER	SEE SPECIFICATIONS	SEE SPECIFICATIONS	SEE SPECIFICATIONS	SEE SPECIFICATIONS
FLOORING					
CONC-01	SEALED CONCRETE			NATURAL	SEE MC-01
CEILING					
APC-01	ACOUSTIC PANEL CEILING	ARMSTRONG	ULTIMA	WHITE - TEGULAR	24" X 24" GRID WIDTH AND PERIMETER WALL ANGLE TO MATCH EXISTING GRID DIMENSION IN LAB 307
WALL BASE					
RB-01	RUBBER WALL BASE	JOHNSONITE	THERMOSET RUBBER	TBD	4" TALL BASE AT WALLS
RB-02	RUBBER WALL BASE	JOHNSONITE	THERMOSET RUBBER	TBD	3" TALL BASE AT EXISTING / SALVAGED CABINETS



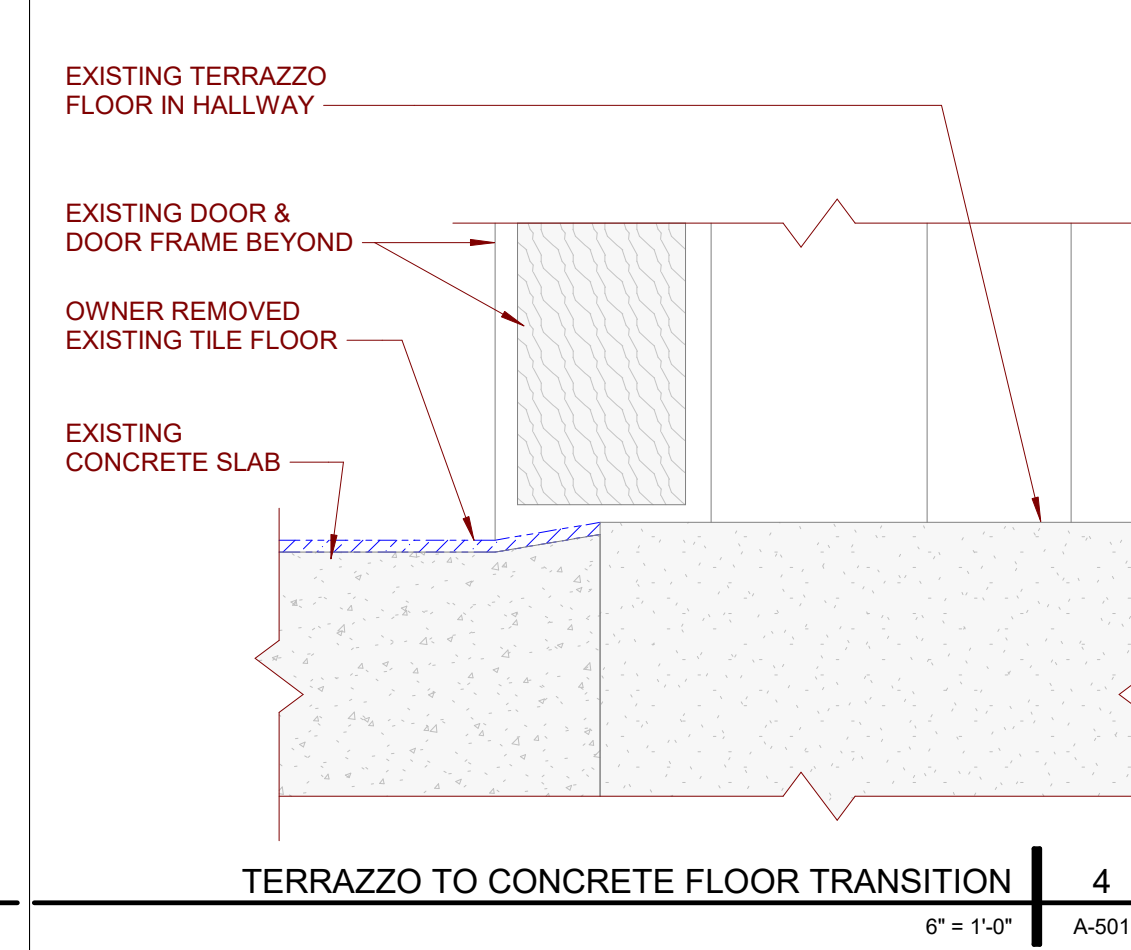
INTERIOR WALL SECTION - GYP BD TO DECK | 10
1 1/2" = 1'-0" A-501



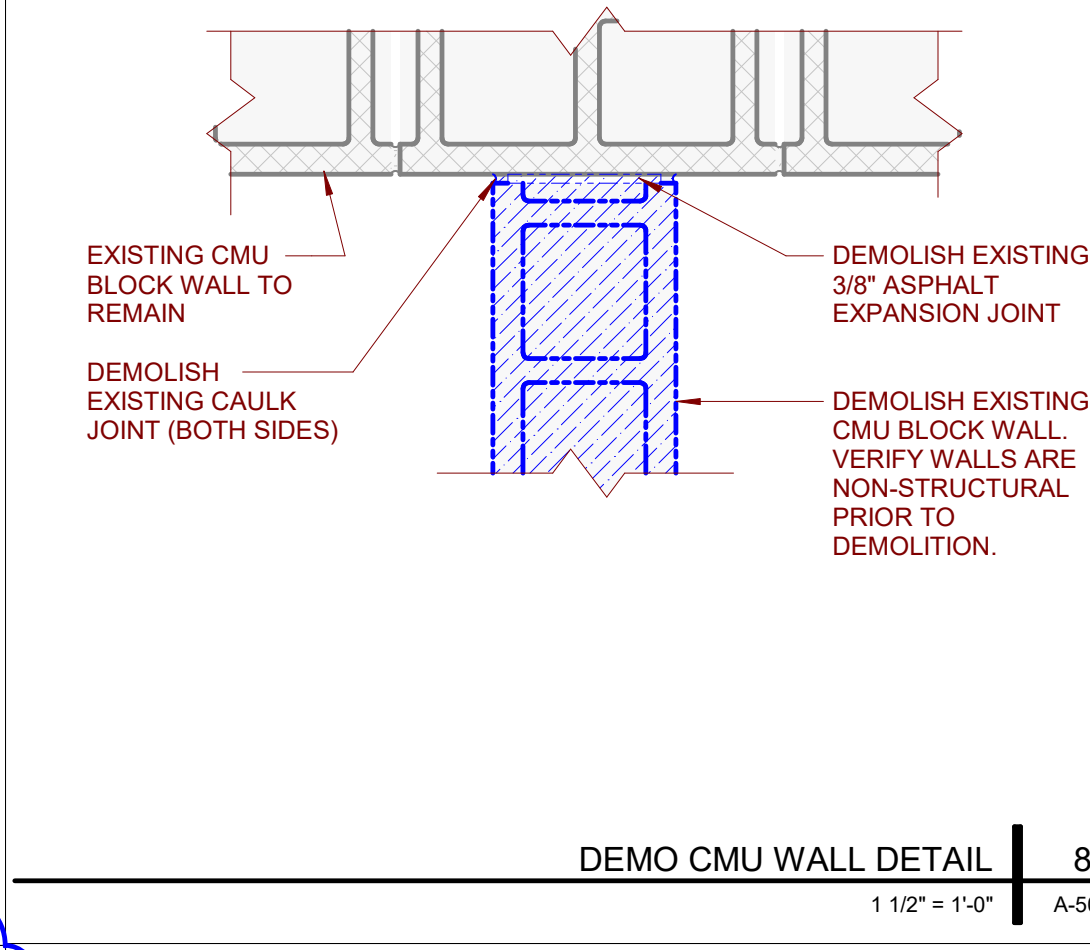
TERRAZZO TO CONCRETE FLOOR TRANSITION | 5
6" = 1'-0" A-501



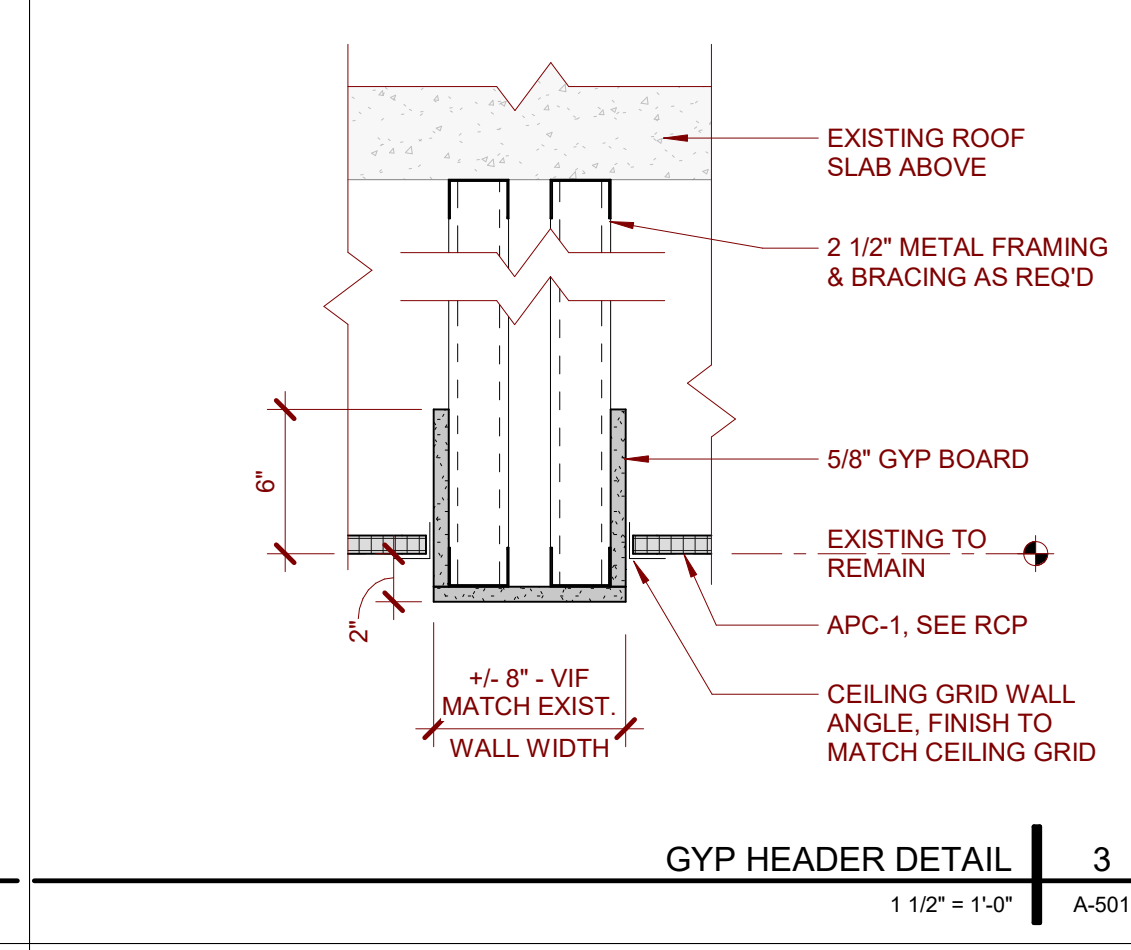
CMU WALL PATCH DETAIL | 9
1 1/2" = 1'-0" A-501



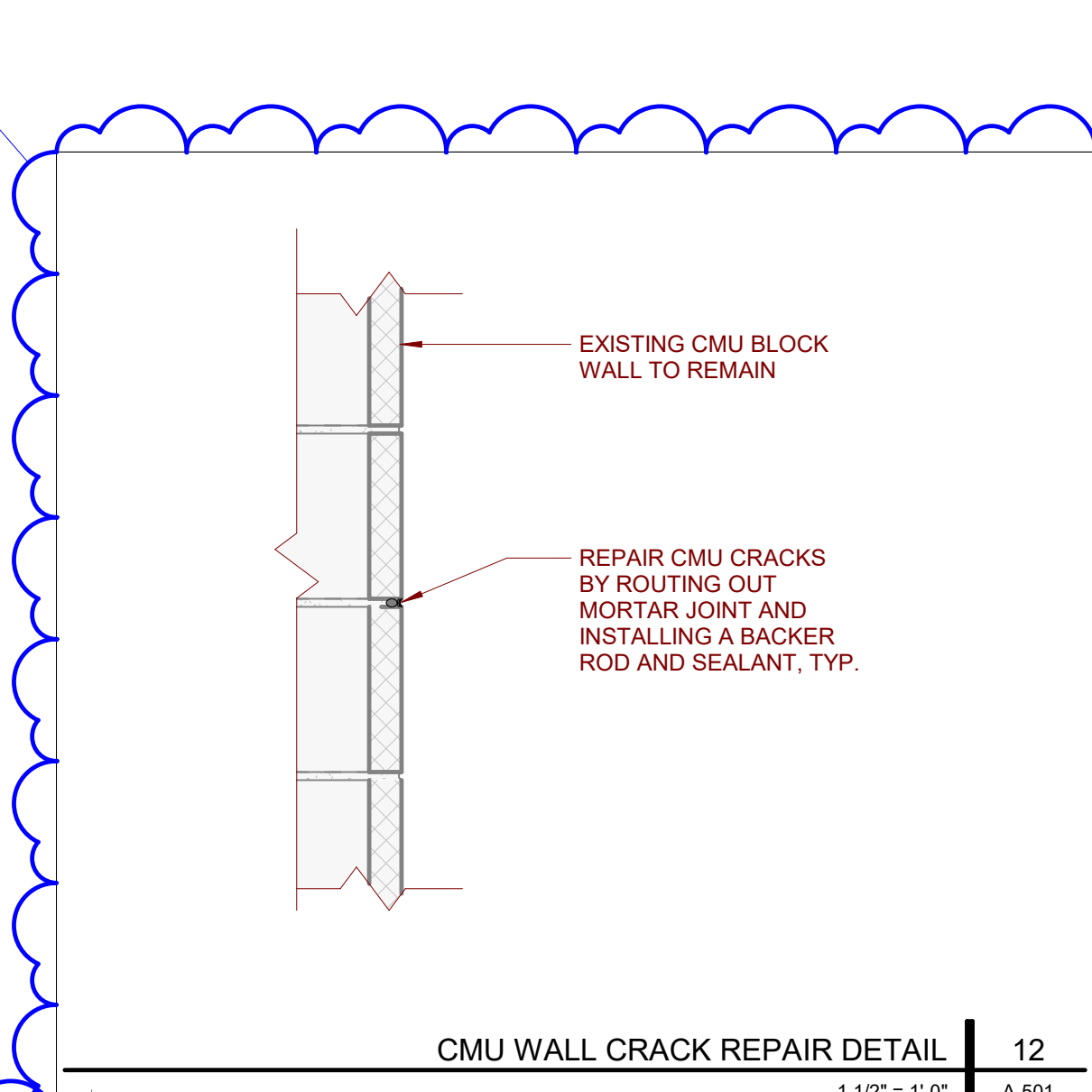
TERRAZZO TO CONCRETE FLOOR TRANSITION | 4
6" = 1'-0" A-501



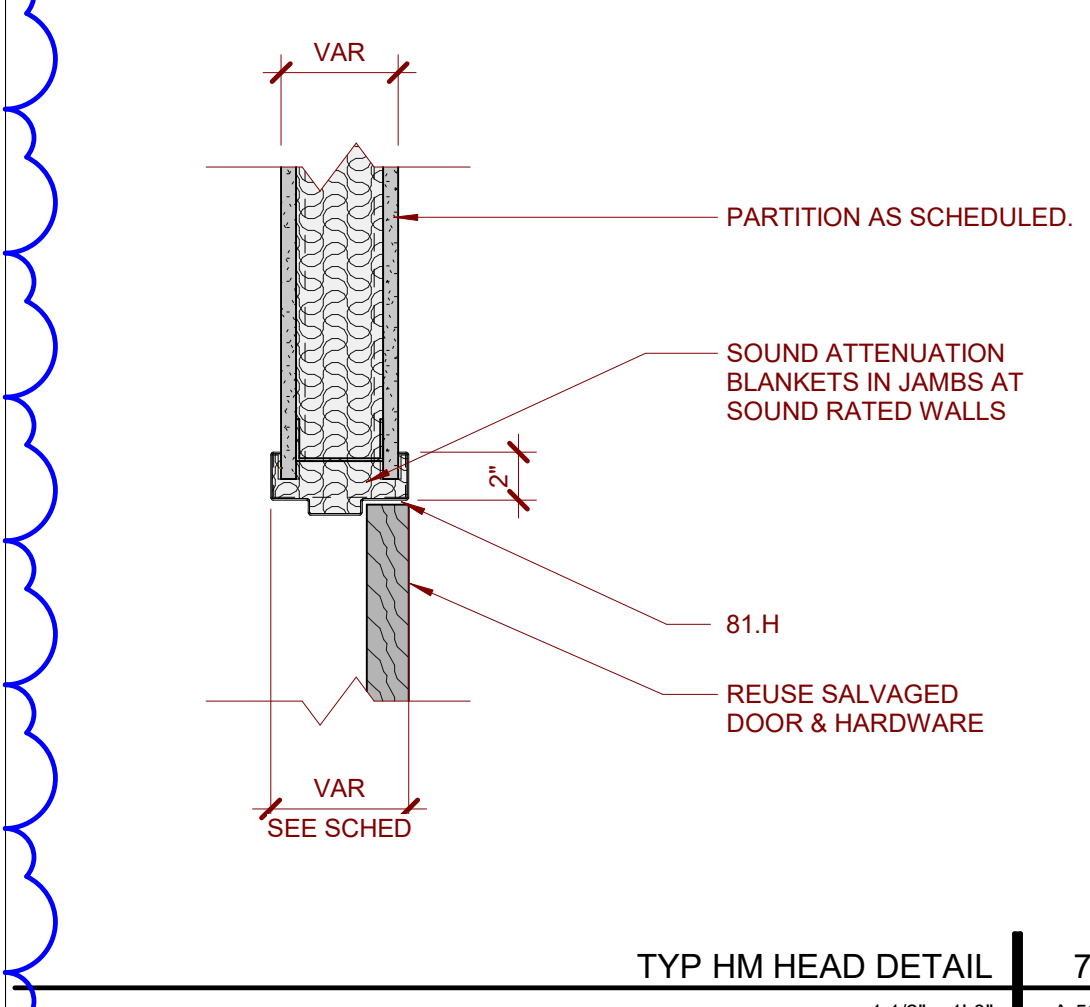
DEMO CMU WALL DETAIL | 8
1 1/2" = 1'-0" A-501



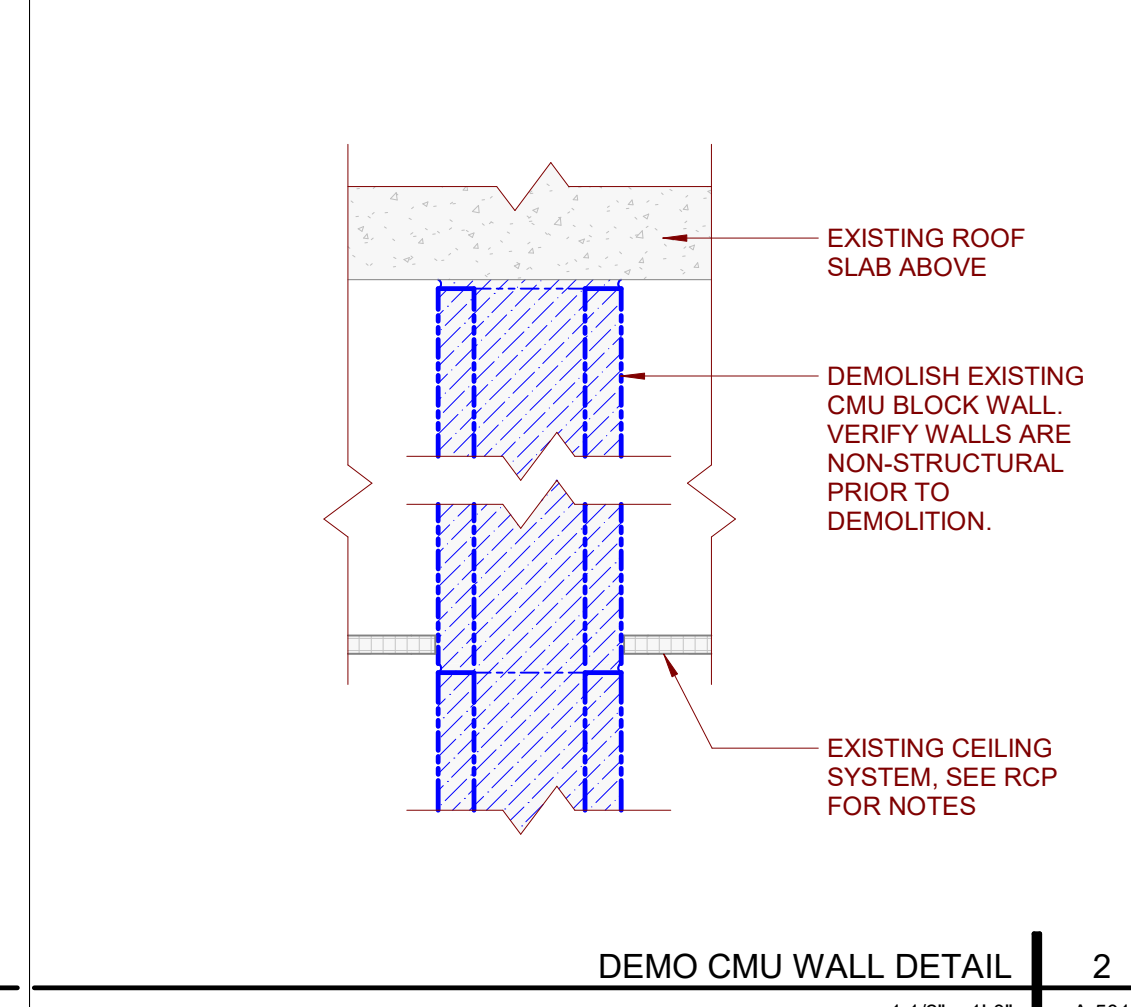
GYP HEADER DETAIL | 3
1 1/2" = 1'-0" A-501



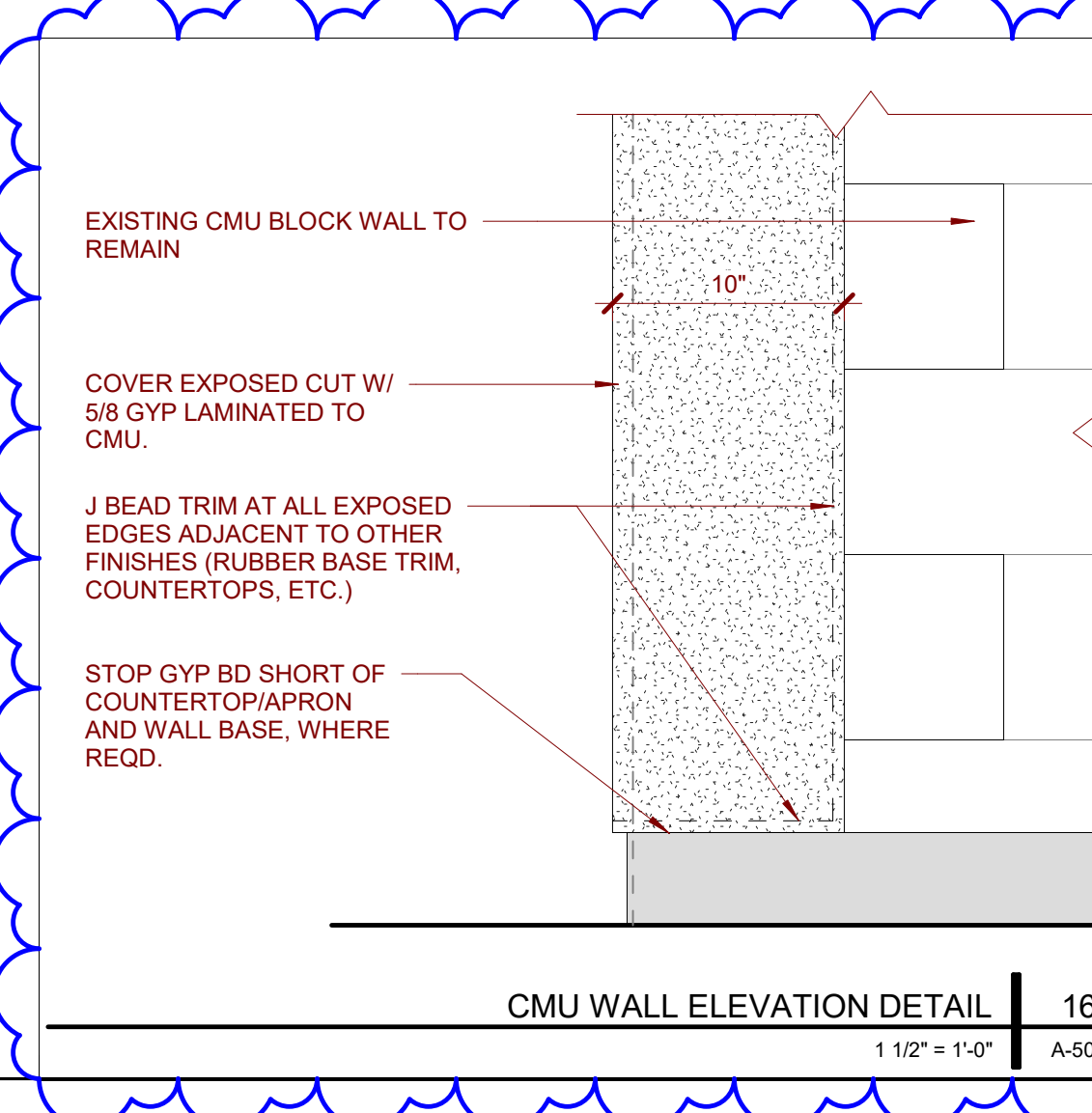
CMU WALL CRACK REPAIR DETAIL | 12
1 1/2" = 1'-0" A-501



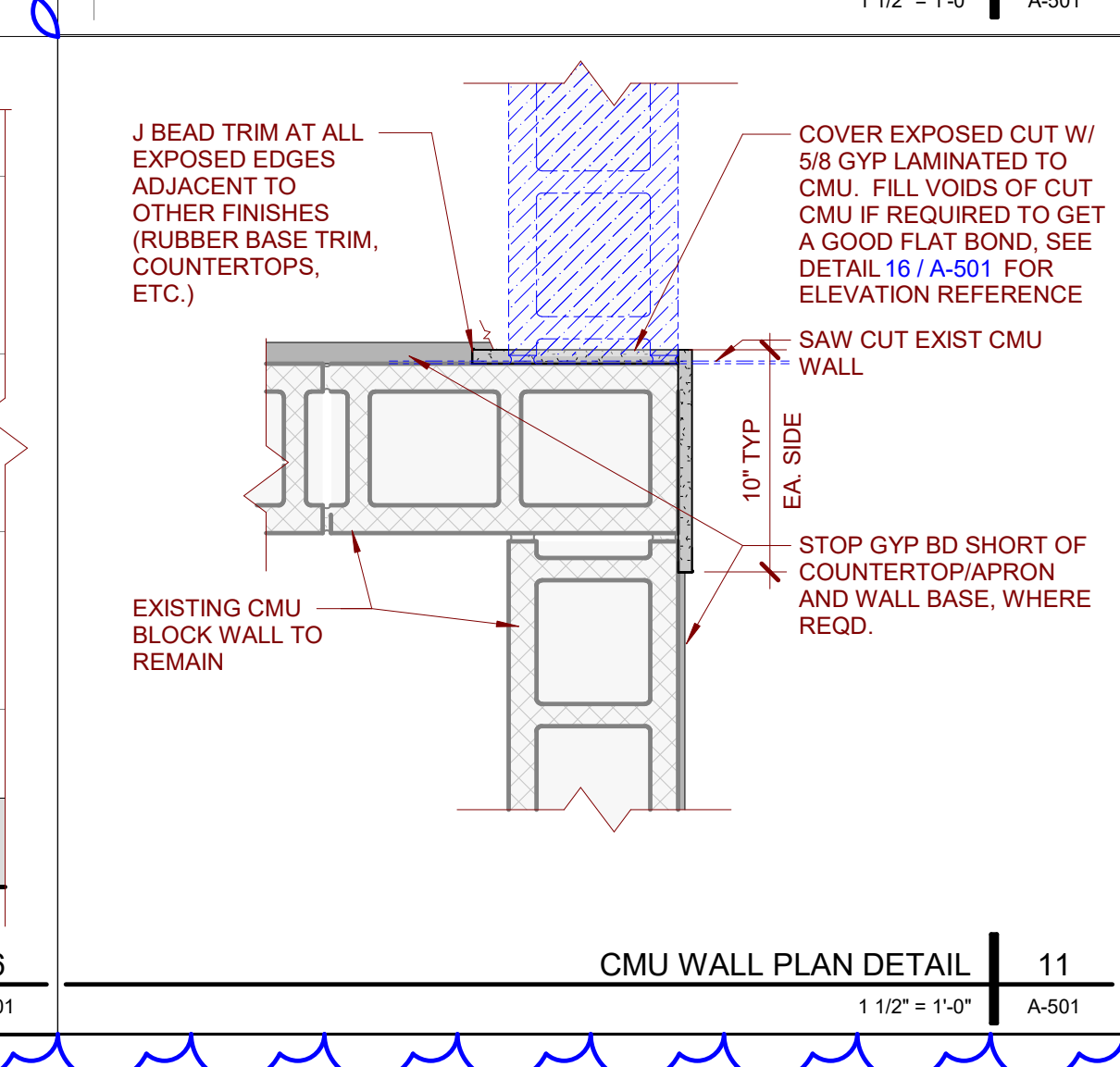
TYP HM HEAD DETAIL | 7
1 1/2" = 1'-0" A-501



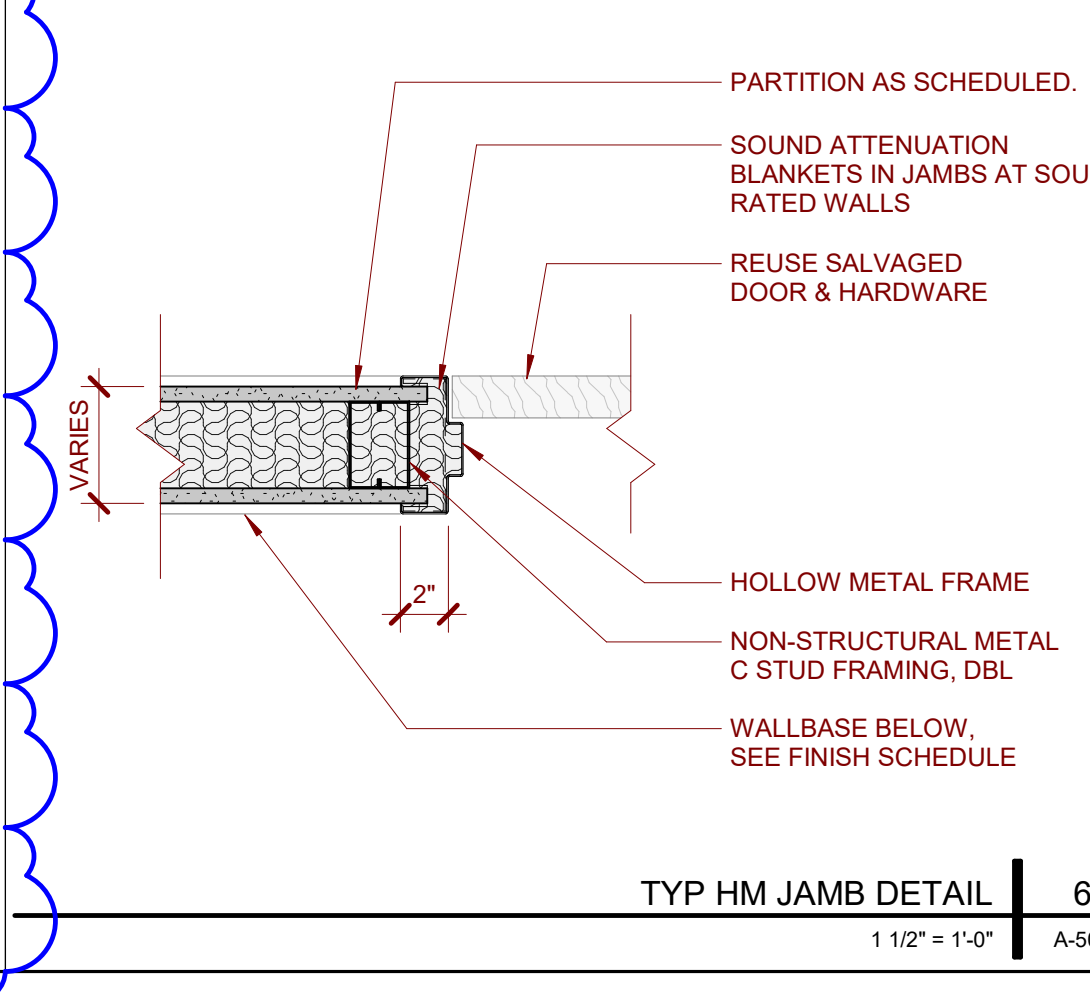
DEMO CMU WALL DETAIL | 2
1 1/2" = 1'-0" A-501



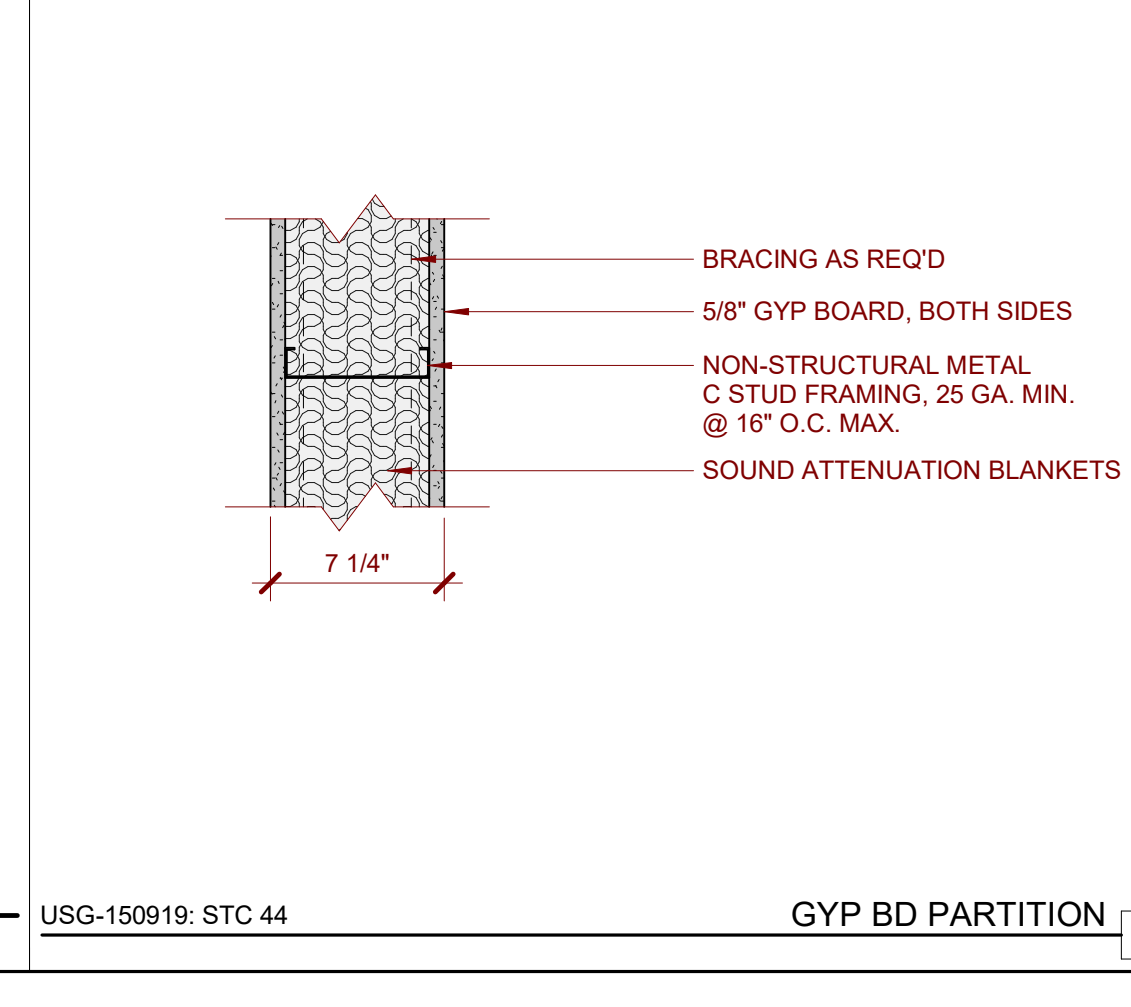
CMU WALL ELEVATION DETAIL | 16
1 1/2" = 1'-0" A-501



CMU WALL PLAN DETAIL | 11
1 1/2" = 1'-0" A-501



TYP HM JAMB DETAIL | 6
1 1/2" = 1'-0" A-501



GYP BD PARTITION | 1
USG-150919; STC 44



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WWW.PWWGARCH.COM

NOT FOR CONSTRUCTION

KEYNOTE LEGEND
81.H Hollow Metal Frame / Mullion

NO.	DESCRIPTION	DATE
1	Addendum #3	09/25/2024

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REVISIONS

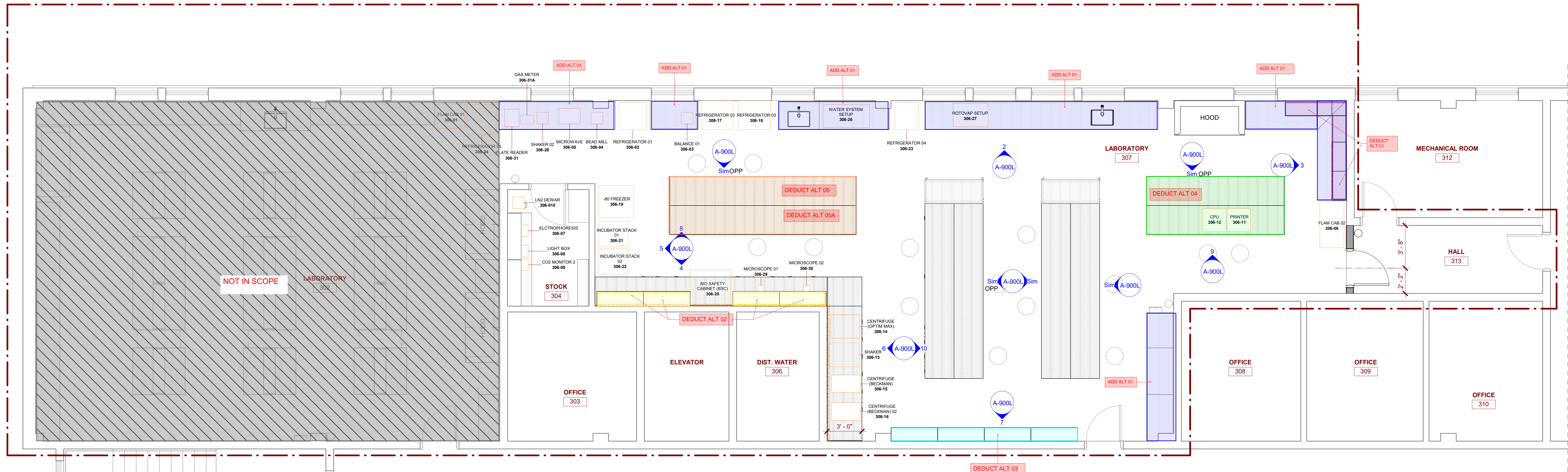
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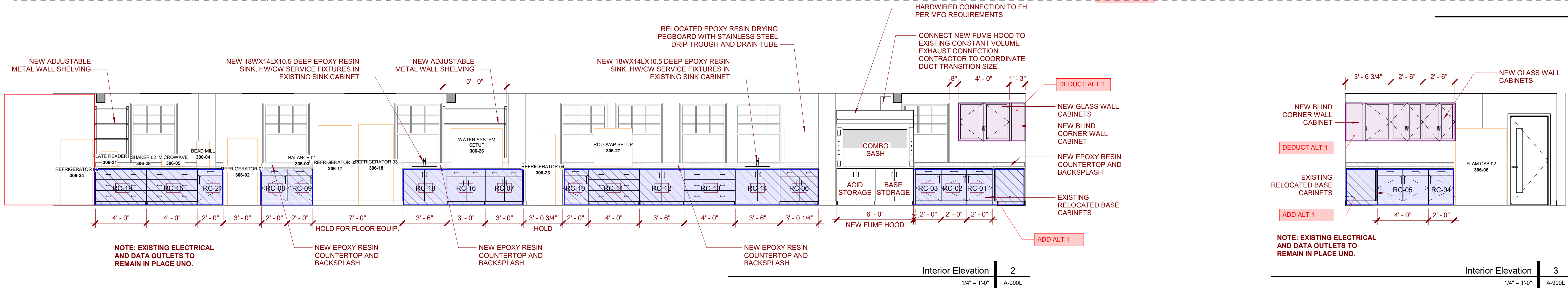
DETAILS
A-501

9/24/2024 5:28:38 PM A-501 - DETAILS, REV #1 (Addendum #2)

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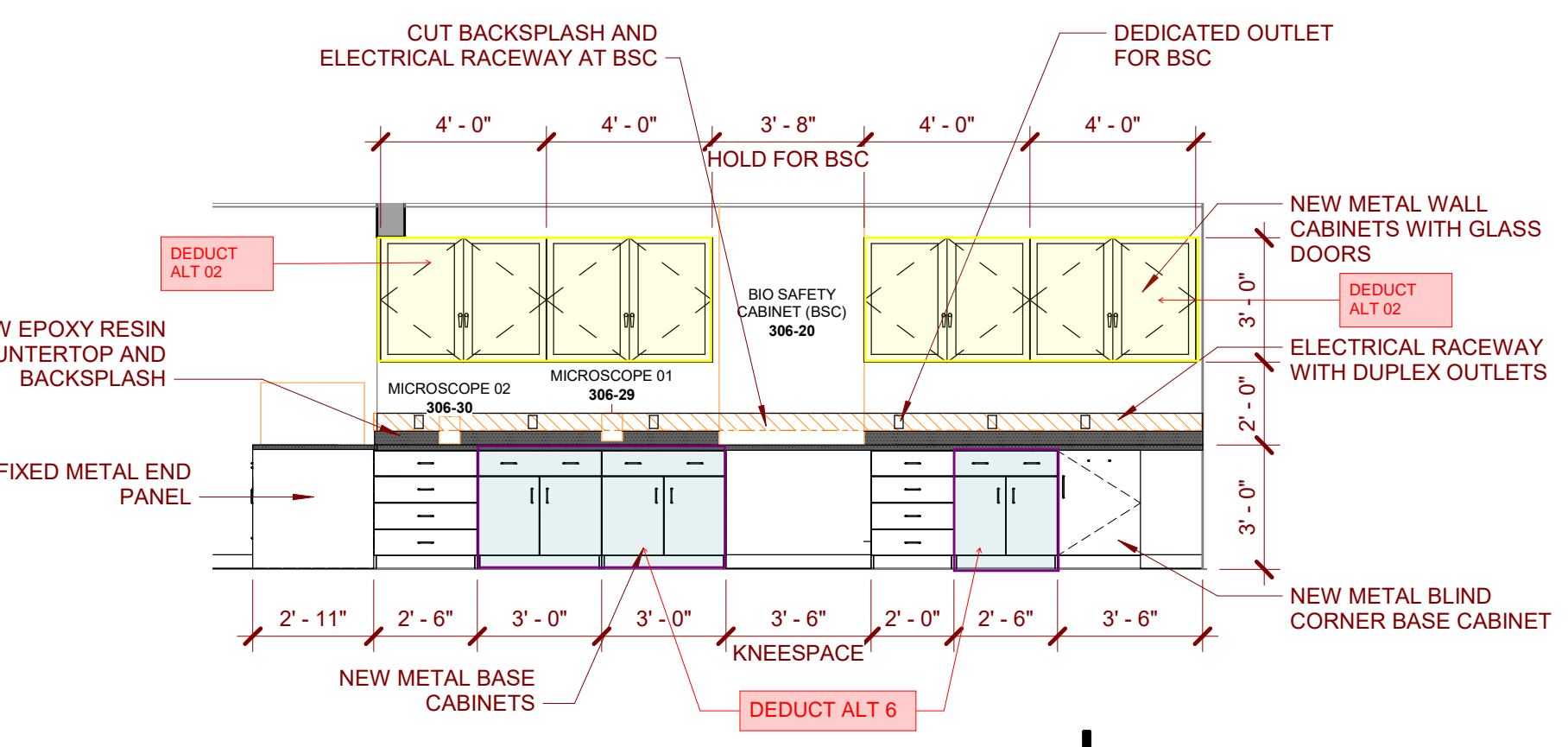


THIRD FLOOR PLAN 1
1/4" = 1'-0" A-900L

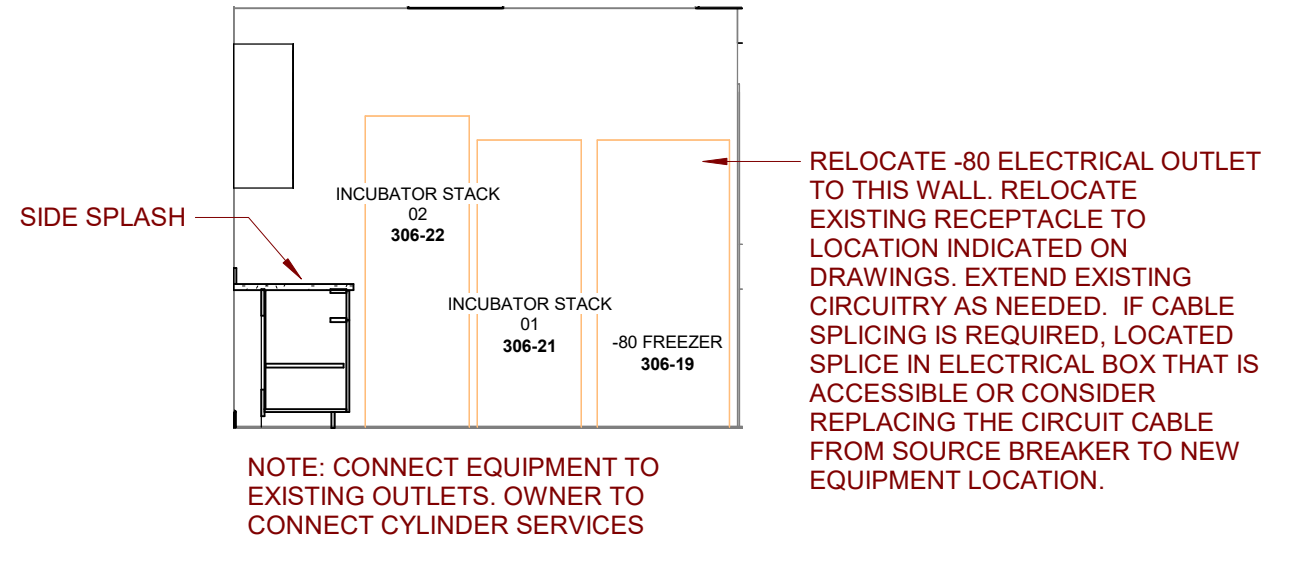


Interior Elevation 2
1/4" = 1'-0" A-900L

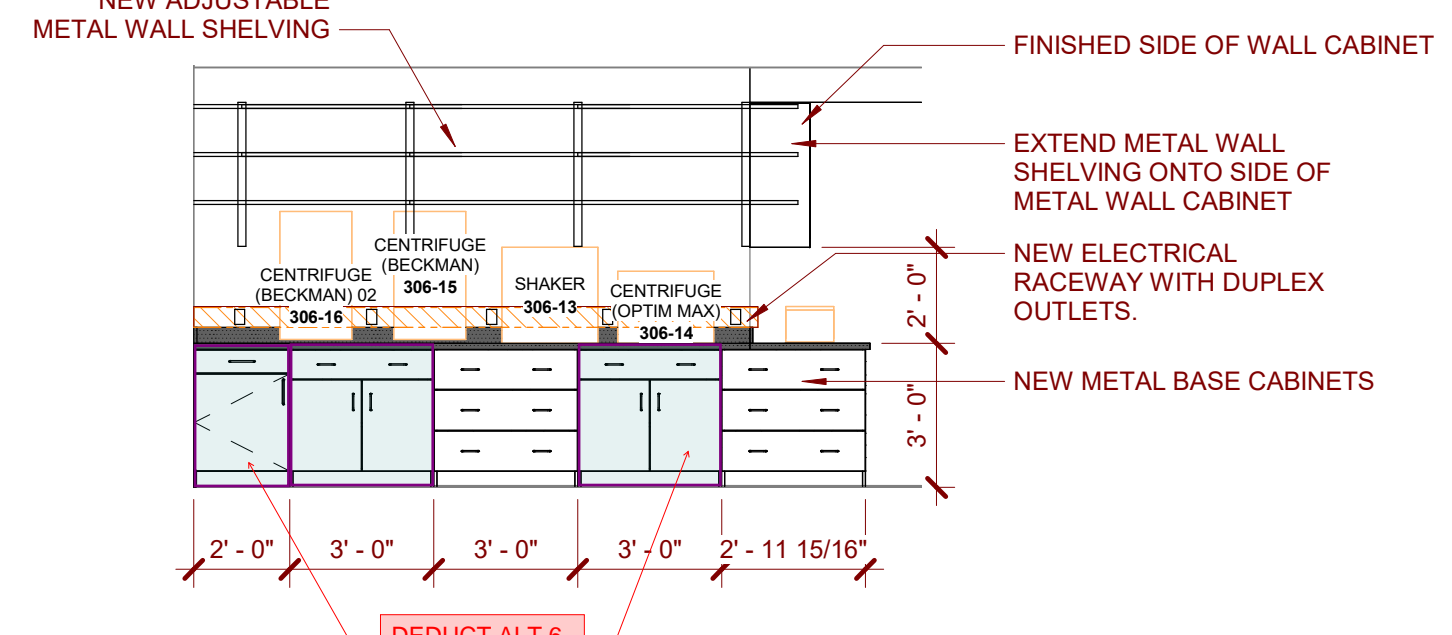
Interior Elevation 3
1/4" = 1'-0" A-900L



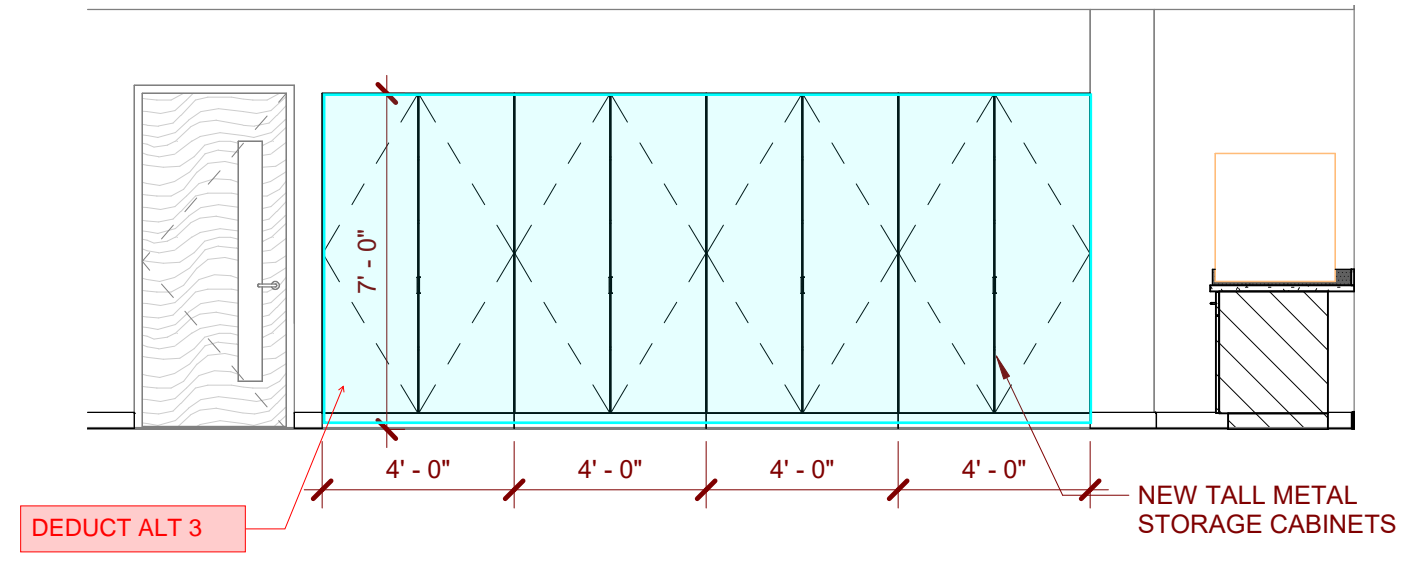
Interior Elevation 4
1/4" = 1'-0" A-900L



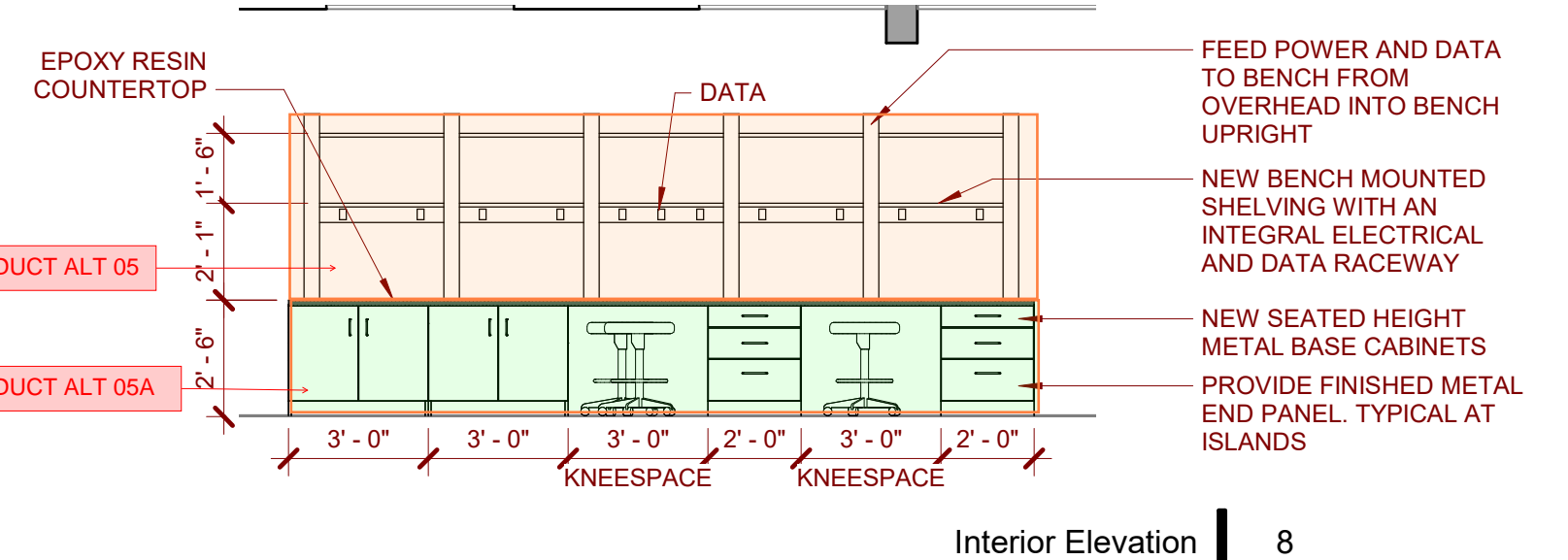
Interior Elevation 5
1/4" = 1'-0" A-900L



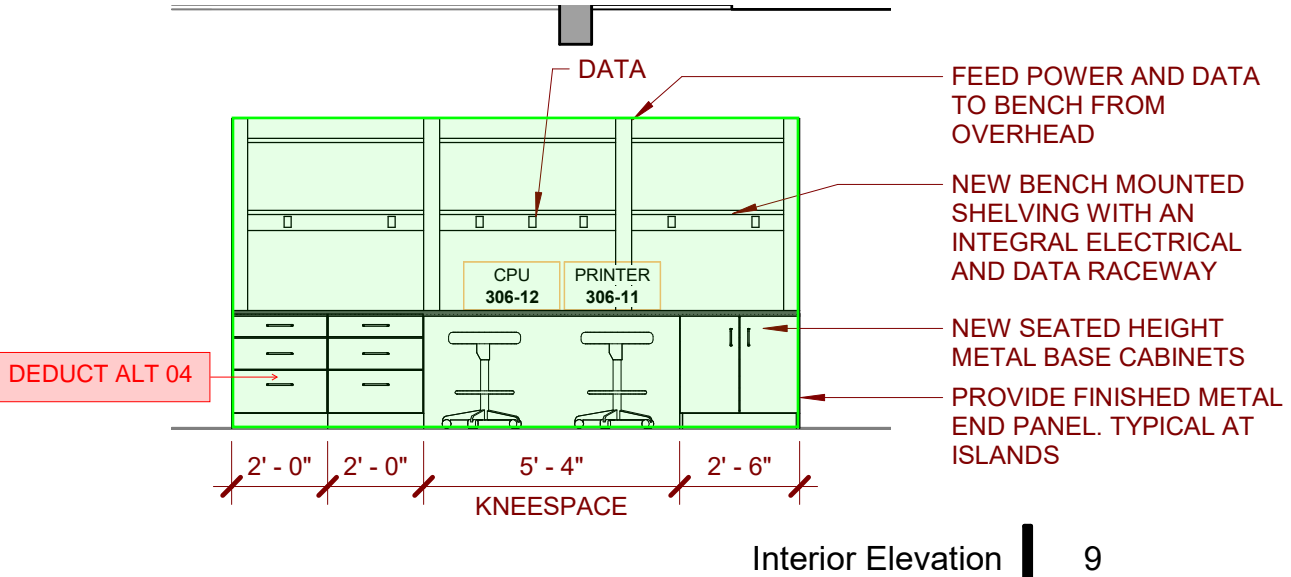
Interior Elevation 6
1/4" = 1'-0" A-900L



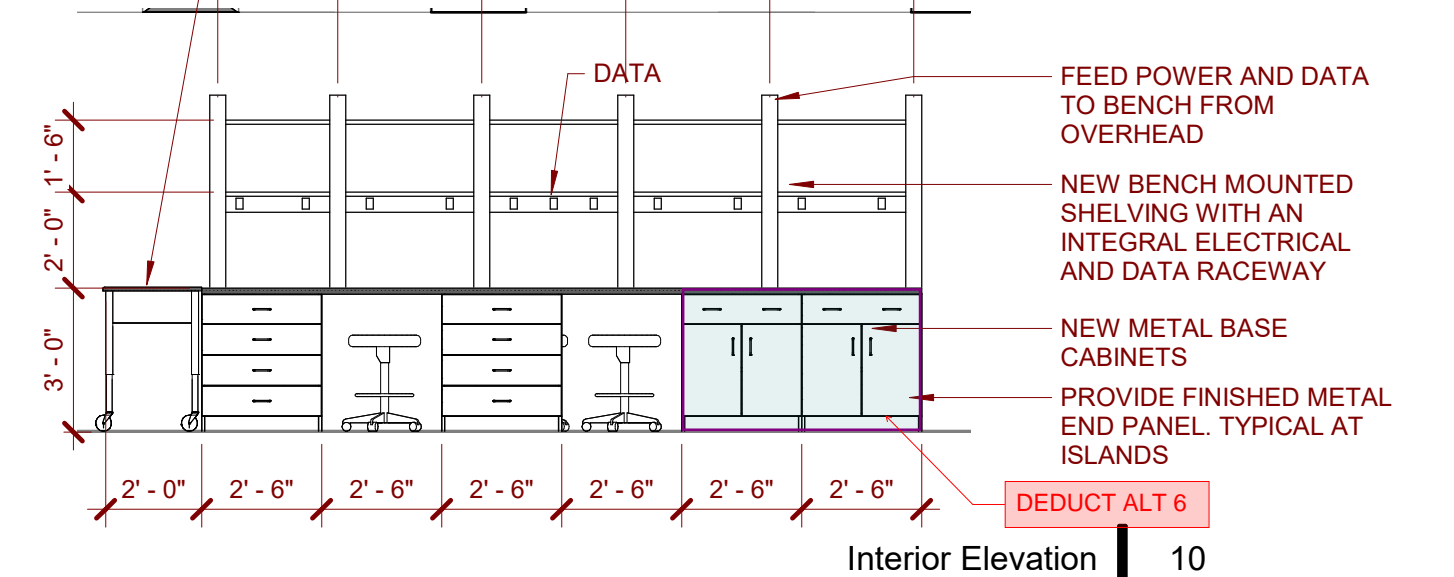
Interior Elevation 7
1/4" = 1'-0" A-900L



Interior Elevation 8
1/4" = 1'-0" A-900L



Interior Elevation 9
1/4" = 1'-0" A-900L



Interior Elevation 10
1/4" = 1'-0" A-900L

NOTE FOR FEEDING ISLAND BENCHES:
DEMOLISH WIRE AND CONDUIT BACK TO SOURCE PANEL AND PROVIDING NEW WIRE AND CONDUIT. AT OWNER'S DISCRETION, CONTRACTOR SHALL FIELD-VERIFY CONDITION OF EXISTING CONDUIT / CABLE RUN AND ASSESS SERVICEABILITY FOR REUSE.

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PWWG PROJECT NUMBER	22304.00	
CONSTRUCTION DOCUMENTS	08/02/24	
REVISIONS		
NO.	DESCRIPTION	DATE
1	Addendum #3	09/25/2024

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208 University Drive
West Liberty, WV 26074
West Liberty University - Arnett Hall

THIRD FLOOR LAB PLAN

A-900L

8/2/2024, 4:30:54 PM A-900L - THIRD FLOOR LAB PLAN

LAB INFORMATION

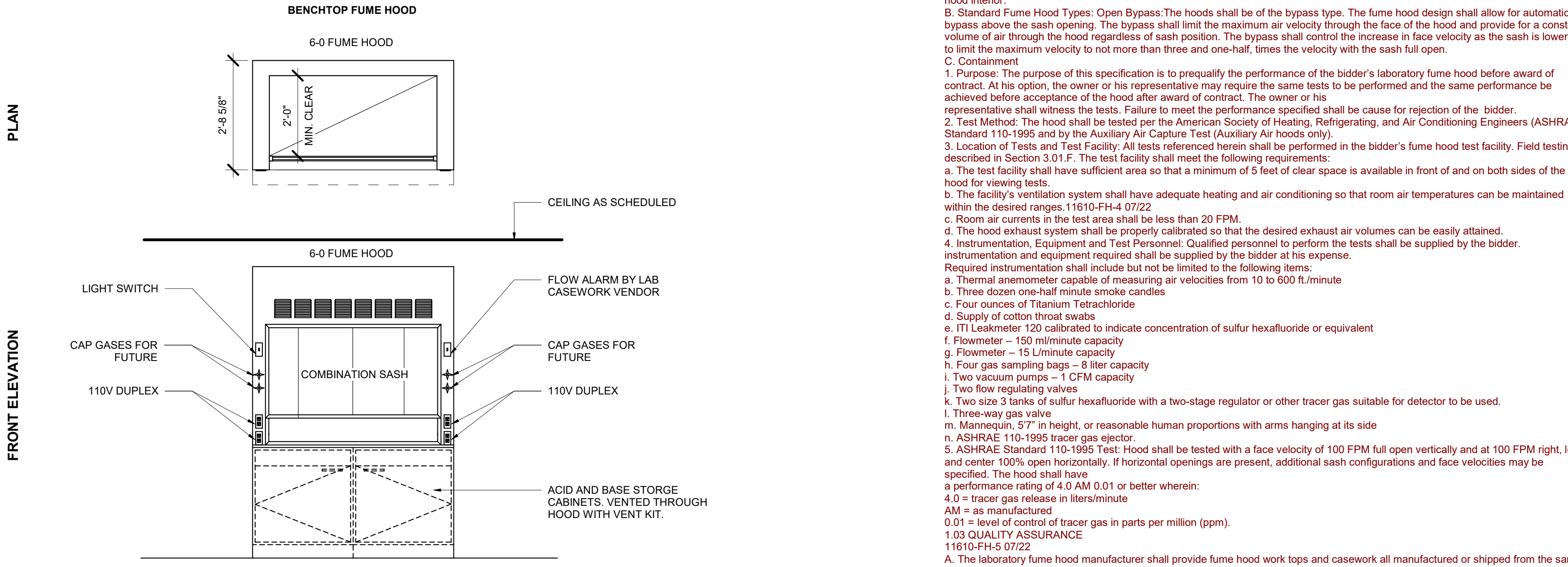
LAB COMPONENTS AND FINISHES

Table with 5 columns: CODE, DESCRIPTION, MANUFACTURER, STYLE, COLOR/FINISH. Includes items like Epoxy Resin Countertop, Laboratory Table, Bench Mounted Shelf Uprights, etc.

NOTE REGARDING PANELS
1. CONTRACTOR TO RING OUT EACH CIRCUIT TO SOURCE PANEL AND CIRCUIT LOCATION FOR ALL EQUIPMENT.
2. RELOCATE EXISTING SUB-PANEL. EXTEND THE WIRING FROM FEEDER SOURCE TO EACH CIRCUIT.

LAB DETAILS

FUME HOOD



MEP NOTES

- ELECTRICAL DESIGN BUILD NOTES
1. MEP DEMOLITION SHOWN ON THE CONTRACT DRAWINGS PROVIDES GENERAL REPRESENTATION OF DEMOLITION WORK, AND MAY NOT INDICATE FULL EXTENT OF REMOVALS REQUIRED TO COMPLETE WORK.
2. KCON (Keweenaw Scientific Corporation) LABOR, MATERIALS, AND SERVICES IN ORDER TO MAINTAIN EXISTING CIRCUITS TO EQUIPMENT LOCATED OUTSIDE THE SCOPE OF WORK AREAS.

MECHANICAL DESIGN BUILD NOTES

- 1. CONSTANT VOLUME FUME HOOD TO REPLACE EXISTING FUME HOOD LOCATION. CONNECT EXISTING DUCTWORK TO NEW FUME HOOD. PROVIDE NEW TRANSITIONS AS NECESSARY.
2. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES, OR REGULATIONS OF FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED/NEW.
3. PROVIDE MATERIALS AND METHODS IN ACCORDANCE WITH EXISTING INSTALLATION.

PLUMBING DESIGN BUILD NOTES

- 1. WORK TO BE PERFORMED, DESIGNED, AND INSTALLED IN ACCORDANCE WITH ALL REFERENCED CODES, STANDARDS, AND REGULATIONS.
2. CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
3. PLANS INDICATE GENERAL ARRANGEMENT ONLY. REFER TO ARCHITECTURAL, HVAC AND ALL ASSOCIATED CONTRACT DRAWINGS FOR ACTUAL SPACE AVAILABLE.
4. SUFFICIENT MECHANICAL EQUIPMENT AND SUPPLIES SHALL BE PROVIDED BY THE MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

SECTION 11610 - LABORATORY FUME HOODS AND RELATED PRODUCTS

PART 1 - DESCRIPTION OF WORK

- 1.00 SUMMARY AND SCOPE
A. Section Includes: Based on Keweenaw Scientific Corporation's Supreme Air Series fume hood design, furnish and install all fume hoods, work tops, and understructures.
B. Accessories: Furnish and install electrical fittings, electrical receptacles and switches, as listed in these specifications, equipment schedules or as shown on drawings.

- C. Removal of all debris, dirt and rubbish accumulated as a result of the installation of the fume hoods to an on-site container provided by others, leaving the premises clean and orderly.
D. Related Divisions:
1. Division 16: Electrical Power, Lighting, and Controls
2. Division 15: Plumbing and Exhaust Ducting
3. Division 16: Electrical Fittings and Connections
4. Division 16: Electrical Power, Lighting, and Controls
5. Division 16: Electrical Power, Lighting, and Controls
6. Division 16: Electrical Power, Lighting, and Controls

- 1.01 BASIS OF WORK
A. It is the intent of this specification to use Keweenaw Scientific Corporation, Statesville, North Carolina, as the standard of construction for laboratory fume hoods.
B. Standard Fume Hood Types: Open Bypass. The hoods shall be of the bypass type. The fume hood design shall allow for automatic air bypass above the sash opening.
C. Location of Tests and Test Facility: All tests referenced herein shall be performed in the bidder's fume hood test facility. Field testing is described in Section 3.01 F.

- 1.02 STANDARD FUME HOOD PERFORMANCE REQUIREMENTS
A. Fume hoods shall be of complete airflow design to insure maximum operating efficiency.
B. Standard Fume Hood Types: Open Bypass. The hoods shall be of the bypass type.
C. Location of Tests and Test Facility: All tests referenced herein shall be performed in the bidder's fume hood test facility.

- N. Performance Test Results (Chemical Spot Tests)
A. Acid Storage Cabinets: Where indicated acid storage cabinets shall use the same gauges of steel and construction features as other base cabinets.
B. Test Evaluation: Evaluation shall be based on the following reagent systems:
Level 0 - No detectable change.
Level 1 - Slight change in color or gloss.
Level 2 - Slight surface etching or severe staining.

- 1.03 QUALITY ASSURANCE
A. The selected manufacturer must warrant for a period of one-year starting date of acceptance or occupancy, whichever comes first.
B. General Performance: Provide certification that furniture shall meet the performance requirements described in SEFA 8.
C. Related Publications:
1. List of shop facilities.
2. List of engineering and manufacturing personnel.
3. Proof of financial ability to fulfill the contract.

- 1.04 MATERIALS AND CONSTRUCTION
A. Fume Hood Superstructure Frame:
1. Free-standing rigid frame structure of steel angle shall be provided to support exterior panels and interior liner and baffle panels.
2. Ductwork: Provide ductwork for interior liner and baffle panels.
3. Fume Hood Interior Walls: Double wall ends, not more than 4" wide, shall be provided to maximize interior working area.

- 1.05 SUBMITTALS
A. Manufacturer's Data: Submit manufacturer's data and installation instructions for each type of casework.
B. Shop Drawings: Submit shop drawings for furniture assemblies showing plans, elevations, ends, cross-sections, service run spaces, location and type of service fittings.
C. Performance Test Results: Provide test results for fume hood performance.

- 2. Special Purpose Cabinets for Use Under Fume Hoods:
A. Acid Storage Cabinets: Where indicated acid storage cabinets shall use the same gauges of steel and construction features as other base cabinets.
B. Test Evaluation: Evaluation shall be based on the following reagent systems:
Level 0 - No detectable change.
Level 1 - Slight change in color or gloss.
Level 2 - Slight surface etching or severe staining.

- 3.00 SITE EXAMINATION
A. Preparation: Prior to beginning installation of fume hood, check and verify that no irregularities exist that would affect quality of execution of work specified.
B. Coordination: Coordinate the work of the Section with the schedule and other requirements of other work being performed in the area at the same time both with regard to mechanical and electrical connections to and in the fume hoods and the general construction work.
C. Performance: Install fume hoods, plumb, level, rigid, securely anchored to building and adjacent furniture in proper location, in accordance with manufacturer's instructions and the approved shop drawings.

- 3.01 INSTALLATION
A. Preparation: Prior to beginning installation of fume hood, check and verify that no irregularities exist that would affect quality of execution of work specified.
B. Coordination: Coordinate the work of the Section with the schedule and other requirements of other work being performed in the area at the same time both with regard to mechanical and electrical connections to and in the fume hoods and the general construction work.
C. Performance: Install fume hoods, plumb, level, rigid, securely anchored to building and adjacent furniture in proper location, in accordance with manufacturer's instructions and the approved shop drawings.

- 3.02 MAINTENANCE
A. General Performance: Provide certification that furniture shall meet the performance requirements described in SEFA 8.
B. Related Divisions:
1. Divisions 5 & 6: Behind-the-Wall Blocking and Studs
2. Division 9: Base Molding
3. Division 11: Chemical Fume Hooding
4. Division 15: Plumbing
5. Division 16: Electrical Fittings and Connections
6. Division 16: Electrical Power, Lighting, and Controls

SECTION 12345 - LABORATORY CASEWORK AND RELATED PRODUCTS (ALPHA SYSTEM)

PART 1 - DESCRIPTION OF WORK

- 1.00 SUMMARY AND SCOPE
A. Section Includes:
1. Using Keweenaw Scientific Corporation, ALPHA SYSTEM Laboratory Furniture as a modular component system used to create work space and storage assemblies.
2. Using Keweenaw Scientific Corporation, ALPHA SYSTEM Laboratory Furniture as a modular component system used to create work space and storage assemblies.
3. Using Keweenaw Scientific Corporation, ALPHA SYSTEM Laboratory Furniture as a modular component system used to create work space and storage assemblies.

- 1.01 BASIS OF WORK
A. It is the intent of this specification to use Keweenaw Scientific Corporation, ALPHA SYSTEM Laboratory Furniture as the standard of construction for laboratory furniture.
B. Standard of Construction: The construction standards of this product line shall provide the basis for quality and functional installation.
C. Location of Tests and Test Facility: All tests referenced herein shall be performed in the bidder's laboratory furniture test facility.

- 1.02 MATERIALS AND CONSTRUCTION
A. Modular Component System: Provide modular component system manufactured according to the standards used by Keweenaw Scientific Corporation, 2700 Front Street, Statesville, North Carolina.
B. General Performance: Provide certification that furniture shall meet the performance requirements described in SEFA 8.
C. Related Publications:
1. List of shop facilities.
2. List of engineering and manufacturing personnel.
3. Proof of financial ability to fulfill the contract.

- 1.03 SUBMITTALS
A. Manufacturer's Data: Submit manufacturer's data and installation instructions for each type of casework.
B. Shop Drawings: Submit shop drawings for furniture assemblies showing plans, elevations, ends, cross-sections, service run spaces, location and type of service fittings.
C. Performance Test Results: Provide test results for fume hood performance.

- 2.00 MANUFACTURERS
A. The basis of this specification is a modular component system manufactured according to the standards used by Keweenaw Scientific Corporation, 2700 Front Street, Statesville, North Carolina.
B. General Performance: Provide certification that furniture shall meet the performance requirements described in SEFA 8.
C. Related Publications:
1. List of shop facilities.
2. List of engineering and manufacturing personnel.
3. Proof of financial ability to fulfill the contract.

- 2.01 MATERIALS
A. General Requirements:
1. The intent of this specification is to provide a high quality adjustable casework system designed for the laboratory environment.
2. Sheet Steel: Cold rolled steel shall be prime grade; roller leveled, and shall be treated at the mill to be free of scale, ragged edges, dead scratches or other injurious effects.
3. Sheet Steel: Cold rolled steel shall be prime grade; roller leveled, and shall be treated at the mill to be free of scale, ragged edges, dead scratches or other injurious effects.

- 2.02 MATERIALS
A. Epoxy counter tops shall be Kemren as supplied by Keweenaw Scientific located in Statesville, NC.
B. Corner gaskets for leveling bowls and apron corner braces, 12 gauge.
C. Hinge reinforcements, 14 gauge.
D. Top and intermediate front horizontal rails, apron rails and reinforcement gussets, 16 gauge.
E. Door assemblies and adjustable shelves, 20 gauge.
F. Performance of the painted surfaces shall match that of the fume hood outer panels.

- 2.03 MATERIALS
A. Epoxy resin shall be a monolithic powder material consistent throughout material thickness.
B. Corner gaskets for leveling bowls and apron corner braces, 12 gauge.
C. Hinge reinforcements, 14 gauge.
D. Top and intermediate front horizontal rails, apron rails and reinforcement gussets, 16 gauge.
E. Door assemblies and adjustable shelves, 20 gauge.
F. Performance of the painted surfaces shall match that of the fume hood outer panels.

- 2.04 MATERIALS
A. Epoxy counter tops shall be Kemren as supplied by Keweenaw Scientific located in Statesville, NC.
B. Corner gaskets for leveling bowls and apron corner braces, 12 gauge.
C. Hinge reinforcements, 14 gauge.
D. Top and intermediate front horizontal rails, apron rails and reinforcement gussets, 16 gauge.
E. Door assemblies and adjustable shelves, 20 gauge.
F. Performance of the painted surfaces shall match that of the fume hood outer panels.

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NOT FOR CONSTRUCTION

LAB DETAILS

A-910L