

Request for Bid Proposal	 Marshall University Office of Purchasing One John Marshall Drive Huntington, WV 25755-4100 Direct all inquiries regarding this order to: (304) 696-2599	Bid# R2401708 Addendum No. 02		
Vendor: <div style="float: right; text-align: right;"> For information call: Purchasing Contact: Michelle Wheeler Phone: (304) 696-2727 Email: michelle.wheeler@marshall.edu & Purchasing@marshall.edu </div>				
Sealed requests to bid for furnishing the supplies, equipment or services described below will be received by the Institution. TO RECEIVE CONSIDERATION FOR AWARD, UNLESS OTHERWISE NOTED, THE BID WILL BE SUBMITTED ON THIS FORM AND UPLOADED INTO THE MU BONFIRE PORTAL ON OR BEFORE THE DATE AND TIME SHOWN FOR THE BID OPENING. When applicable, prices will be based on units specified; and Bidders will enter the delivery date or time for items contained herein. The Institution reserves the right to accept or reject bids on each item separately or as a whole, to reject any or all bids, to waive informalities or irregularities and to contract as the best interests of the Institution may require. BIDS ARE SUBJECT TO THE GENERAL TERMS AND CONDITIONS AS SET FORTH HEREIN.				
DATE 3/18/2024	Click here to enter text.	DEPARTMENT REQUISITION NO. R2401708		
BIDS OPEN: 3:00 p.m. on 3/28/2024 via TEAMS Link: http://tinyurl.com/2m25rw9p		BIDDER MUST ENTER DELIVERY DATE FOR EACH ITEM BID		
Item #	Quantity	Description	Unit Price	Extended Price
<div style="text-align: center;"> <u>ADDENDUM NO. 02</u> </div> <p style="text-align: center; font-size: 1.2em;">Project Name: R2401708- MARSHALL HEALTH – FORMER STRAYER BUILDING RENOVATIONS</p> <p style="text-align: center;">To answer remaining technical questions and to extend and move the bid opening date.</p>				
Total				

To the Office of Purchasing,
 In compliance with the above, the undersigned offers and agrees, if this offer is accepted within _____ calendar days (30 calendar days unless a different period is inserted by the purchaser) from the bid open date, specified above, to furnish any or all items upon which prices are offered, at the price set opposite each item, delivered at the designated point(s), within the time specified.

Bidder guarantees shipment from _____ within _____ days

FOB _____ After receipt of order at address shown

Terms _____

Bidder's name Vendor _____

Signed By _____

Typed Name _____

Title _____

Email _____

Street Address _____

City/State/Zip _____

Date _____ Phone _____

Fein _____

SOLICITATION NUMBER: R2401708

Addendum Number: No. 01- 02

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☒ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☒ Attachment of vendor questions and responses
- ☒ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☐ Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

1. Mandatory pre-bid sign-in sheet.
2. Mandatory walk-through sign-in sheet
3. Answer vendor questions submitted
4. Extend technical questions deadline
5. Extend bid opening date

NO OTHER CHANGES

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

**ADDENDUM ACKNOWLEDGEMENT
FORM SOLICITATION NO.:**

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specifications, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any University personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company

Authorized Signature

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.



COMPLEX PROJECTS
REQUIRE RESOLVE
THRASHER'S GOT IT

**MARSHALL UNIVERSITY JOAN C EDWARDS SCHOOL OF MEDICINE
CABELL COUNTY, WEST VIRGINIA**

MARSHALL HEALTH – FORMER STRAYER BUILDING RENOVATIONS

ADDENDUM #2

March 15, 2024

THRASHER PROJECT #T60-11110

TO WHOM IT MAY CONCERN:

A Mandatory Pre-Bid Conference was held on Thursday, March 7, 2024, on the above-referenced project, A Mandatory Pre-Bid Walkthrough was conducted on Friday, March 8th, 2024. The following are clarifications and responses to questions posed by contractors for the above reference project.

A. GENERAL

The bid deadline has been extended to 3:00PM EST Thursday, March 28th, 2024. The deadline for questions was Wednesday, March 13th, 2024.

B. SPECIFICATIONS

1. The Index has been revised in this addendum.
2. The following specification sections have been revised in this addendum:
024119 – Selective Demolition
084113 – Aluminum Framed Entrances and Storefronts
088000 – Glazing
3. The following specification sections have been added in this addendum:
281300 – Access Controls

C. DRAWINGS

1. G1.00, D1.01, A1.01-A4.06, A6.01, A7.01-A8.01, P-201, M-002, E-202, and E-303 have been revised in this addendum.
2. S1.01 have been added in this addendum.

D. QUESTIONS AND RESPONSES

QUESTION

1. Will additional days be added to the contract should add alternate no. 01 be accepted?

RESPONSE

No days shall be added.

QUESTION

2. Will additional days be added to the contract should add alternate no. 2 be accepted?

RESPONSE

No days shall be added.

QUESTION

3. Have the contract documents been submitted to the WV SFMO, and could the plan review letter be included in the addendum?

RESPONSE

Documents have been submitted to WV State Fire Marshal. A plan review letter has not been received yet, but will be provided to the contractor.

QUESTION

4. Have the contract documents been submitted to Putnam County, and could the plan review letter be included in the addendum?

RESPONSE

Documents are being prepared for submission to Putnam County. They (Putnam County) have stated approval for permit should happen within 5 business days upon receipt of all required documents and fees.

QUESTION

5. Requesting the deadline for questions to be extended (1) one week to give everyone ample opportunity to review the existing conditions and bidding documents as the alternates create much confusion and time is needed to review.

RESPONSE

The bid date shall be extended to 3:00PM EST, Thursday, March 28th, 2024.

QUESTION

6. Please confirm the alternates are add alternates per bid documents and not deductive alternates as discussed during the prebid meeting.

RESPONSE

To clarify Addendum #1 - Question #24, The alternates are additive. The lowest bidder shall be calculated by the Base Bid and any additive alternates MU chooses to exercise. If MU chooses not to exercise any additive alternates, the award calculation shall be the lowest Base Bid.

QUESTION

7. Will a Hollow Metal Door & Frame specification be provided?

RESPONSE

See Addendum #1 – Question #2 Response.

QUESTION

8. Could the locations for Access Doors & Frames be provided?

RESPONSE

Drawings revised in this addendum.

QUESTION

9. SECTION 092116 - GYPSUM BOARD ASSEMBLIES was inadvertently missed within the Table of Contents.

RESPONSE

The Table of Contents has been updated and included in this addendum.

QUESTION

10. Gypsum Board Shaft Wall Assemblies is identified in the Table of Contents, but no specifications were provided.

RESPONSE

No shaft wall assemblies are included in the project. See Question #10 Response.

QUESTION

11. Will an Exterior Painting specification be provided?

RESPONSE

No. Exterior Painting specification will not be provided. Any exterior painting is incidental to exterior signage application, new metal canopy, and new entrance opening. Contractors may choose to consider touch-up painting at these location based on the scope of work and ability to not damage existing finishes. Contractors shall ensure, however, that new work is integrated uniformly with existing conditions and that all work and finishes appear complete including any necessary painting to the exterior.

QUESTION

12. Will Interior Signage specifications and schedules be provided?

RESPONSE

See Addendum #1 – Question #10 Response.

QUESTION

13. Will Cast Letter specifications be provided?

RESPONSE

See Addendum #1 – Question #10 Response.

QUESTION

14. Will Fire Extinguisher Cabinets & Fire Extinguishers specifications be provided?

RESPONSE

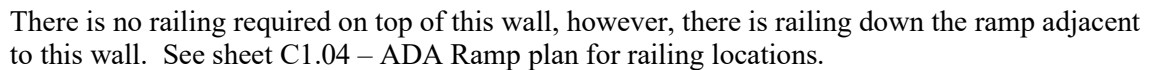
See Addendum #1 – Question #11 Response.

15. Shall the temporary partition walls be drywalled on each side and will the temporary partition walls be required to be finished "Painted"?

Temporary partitions do not drywall applied to the unfinished side. The temporary walls shall be finish painted.

Office 107 receives a roller shade.

17. Please confirm no railing is required at the wall to the right of the screenshot. See below.



18. Please confirm Truncated pavers is not required at the lower and upper landings of the ramp.

A truncated paver shall be provided at the upper landing of the ramp where it terminates at the existing parking lot.

19. Please confirm a grab rail is not required on the railings.

No handrail required.

QUESTION

20. Shall the galvanized railings be painted?

RESPONSE

Yes, painting shall be provided as follows:

- 1) Clean and Prepare galvanized metal surfaces with white vinegar and an oil/grease emulsifier.
- 2) Prime the galvanized metal surfaces with acrylic metal primer.
- 3) Paint the galvanized metal surfaces with acrylic enamel (semi-gloss) paint. Apply two coats.
- 4) Paint color shall be proposed and approved by Owner and Architect prior to ordering and application.

QUESTION

21. Sheet D1.01 Note 20 identifies to remove floor coverings. The plan sheet does not indicate the flooring types per location. Can this information be provided?

RESPONSE

A specific plan cannot be provided; however, the majority of spaces have carpet tile flooring. About 20% of spaces have vinyl composite tile flooring. The existing entrance lobby and restrooms have porcelain tile flooring, and the existing housekeeping and roof access have unfinished concrete.

QUESTION

22. Sheet D1.01 Note 21 identifies to remove wall coverings. The plan sheet does not indicate where the wall coverings are located. Can this information be provided?

RESPONSE

Contractor shall remove existing tile wall finish in existing bathroom. This scope is now identified on Sheet D1.01 provided in this addendum. New finish tile walls shall be provided in the existing bathrooms as noted in Sheets A4.03 and A7.01.

QUESTION

23. Sheet D1.01 Note 22 identifies to remove ceilings. The plan sheet does not indicate the ceiling materials per location. Can this information be provided?

RESPONSE

All ceilings to be removed are acoustic ceiling tile.

QUESTION

24. Sheet D1.01 does not identify scope of work for the perimeter walls. Will demolition of finishes around the perimeter wall be required?

RESPONSE

Demolition of finishes on perimeter walls is not required; however, selective patching and cutting may be required for installation of power and data receptacles and wall-mounted cabinets.

Contractor shall determine this scope based upon new work displayed in new floor plans and MEP drawings.

25. QUESTION

Please refer to screen shot below. Who is responsible for the Marshall Health plaque?



6 3D View 1
4.05

RESPONSE

The 3D Views are for reference purposes only. Decorative interior signage shall be provided by the Owner and installed by the Contractor.

26. QUESTION

Referring to Sheet A5.01 Wall Types; Which wall types are required to be provided with sound proofing insulation and gypsum board for HIPAA requirements? Example: Acoustic (sound-dampening) wall and ceiling board.

RESPONSE

On Sheet A5.01 Sound Batt Insulation shall be installed in partitions A1, A3, A4, A5, A6. On each of these partitions, acoustic sealant shall be applied under the bottom edge of the applied gypsum board.

27. QUESTION

Will IRCA procedures be required for this project?

Example:

INTERIOR ENCLOSURES

A. Infection Control Risk Assessment (ICRA):

1. The Project is adjacent to or located within a Health Care Occupancy. The Contractor shall cooperate with the Owner to comply with its Infection Control Risk Assessment (ICRA) and related mitigation recommendations throughout the construction period.

2. Coordinate construction procedures and temporary measures with the Owner's ICRA plan.

At a minimum the Contractor shall be expected to:

a. Designate access routes and entry points to the project with dust controlling doorways, walk-off mats, etc. according to ICRA recommendations.

b. Construct temporary barriers in accordance with ICRA plan.

c. Control air flow and/or air pressure as recommended by ICRA plan.

d. Other measures as may be prescribed by ICRA plan.

B. Provide temporary partitions as indicated to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.

C. Construction: Framing and reinforced polyethylene sheet materials with closed joints and sealed edges at intersections with existing surfaces:

1. Maximum flame spread rating of 75 in accordance with ASTM E84.

D. Walk-Off Mats: Provide adhesive type mats at construction entry point(s) to control migration of dust and dirt from project areas into non-project areas.

RESPONSE

The project location currently does not need to follow Marshall Health's ICRA policy; however, ICRA policy will need to be followed in the event the Base Bid area is occupied before completion of Alternate 1 and Alternate 2.

28. QUESTION

Will use of existing power to the building be permitted without charge to the Contractor?

RESPONSE

See Addendum #1 – Question #5 Response.

29. QUESTION

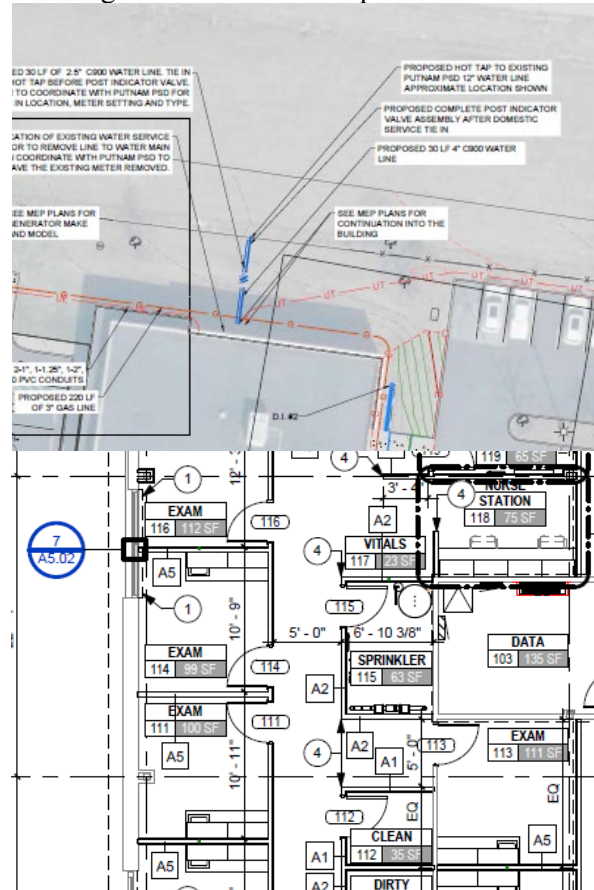
Will use of the existing water be permitted without charge to the Contractor?

RESPONSE

See Addendum #1 – Question #5 Response

30. QUESTION

Where the water service enters on the I-64 side, there is no mechanical room for the riser, only an exam room. Can a riser room or mechanical closet be incorporated for the sprinkler valve equipment, backflow preventer, and fire alarm panel? The sprinkler room is not on the perimeter wall. The underground as shown will penetrate the floor in Exam Room 114.

**RESPONSE**

The contractor shall trench over to the planned sprinkler room.

31. QUESTION

The Base Bid is to include Shell Sprinkler Protection with 1/2" Upright Sprinklers. Shall 1" Openings with 1/2" bushings be bid for future renovations if Alt #1 and Alt #2 are rejected? This will allow for simple head orientation (upright to pend) change later.

RESPONSE

Yes, please provide this provision.

32. QUESTION

Clarify 21 13 13 Section 3.1 (A) Threading Tools and Thread Cutting Oil Shall not be permitted on site and Section 3.4 (A) Field Threaded Joints will not be permitted. Correct?

RESPONSE

Threading Tools and Thread Cutting Oil Shall be permitted on site.

33. QUESTION

4" Supply - Is the Sprinkler Contractor to include 5'0 out of the perimeter of the building, take off from the inside floor flange, or provide pricing for tap and underground installation?

RESPONSE

The sprinkler contractor is to coordinate with civil and include 4" supply 5'-0" outside of building including take-off from the inside floor flange.

34. QUESTION

Clarify Drawing C1.02 shows 4" C900 (Blue Brute Plastic), Section 3.4 G States Underground Piping must be Ductile Iron. Can C900 be used?

RESPONSE

C900 can be used.

35. QUESTION

Has a Flow Test been performed to determine the 4" Supply on C1.02 is correct?

RESPONSE

Yes, flow test has been performed. See Sheet P-001 for information.

36. QUESTION

Clarify Section 3.17 – A – 1. Sprinkler Piping 2" and smaller is to be all Schedule 40? Can Sch. 10 (2") (1 ½") and (1 ¼") Pipe be added and 1" piping to remain schedule 40?

RESPONSE

Please provide schedule 40 for all piping.

37. QUESTION

Clarify section 3.18 – A Provide Standard Response Sprinklers Throughout the building. Quick Response sprinklers would be recommended. Is this correct?

RESPONSE

Please provide Quick response sprinkler heads in accordance with FGI and NFPA.

38. QUESTION

During the demolition phase, the Demolition Contractor will an adequate amount of manpower and move through the building very quickly with demolition. To avoid a slow-down with the selective demolition activities, and for bidding purposes could a list of Owner salvaged items be provided?

Refer To:

*GENERAL DEMOLITION NOTE 11; ALL REMOVALS AND SALVAGE:
SALVAGEABLE ITEMS SHALL FIRST BE OFFERED TO THE OWNER.
SALVAGEABLE ITEMS THAT ARE NOT RETAINED BY THE OWNER SHALL
BECOME PROPERTY OF THE CONTRACTOR & SHALL BE LEGALLY DISPOSED
OF OFF SITE.*

Refer To:

Selective Demolition C. Removed and Salvaged Items:

- 1. Clean salvaged items.*
- 2. Pack or crate items after cleaning. Identify contents of containers.*
- 3. Store items in a secure area until delivery to Owner.*
- 4. Transport items to Owner's storage area designated by Owner.*
- 5. Protect items from damage during transport and storage.*

RESPONSE

The Contractor shall salvage and return to Owner the following items:

- 1) Dry Erase Boards
- 2) Digital Projectors
- 3) Mobile Partition
- 4) Doors
- 5) TV Monitors

39. QUESTION

There are a lot of stored materials in the proposed waiting room 121. Will these materials and all other loose furnishing be removed by the Owner prior to the Contractor arriving to begin work?

Refer To:

*Gypsum Board Assemblies Section 092116 Article C. Where Level 5 finish is indicated, **spray apply high build drywall surfacer** over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.*

RESPONSE

Yes.

40. QUESTION

Who is be considered as the Provider? If General Contractor is being considered as the Provider, could a complete specification for Access Controls be provided?’

Refer To:

Specification Section 087100 Door Hardware.

The Door Hardware specifications identify access controls and access controls to be provided by *Access Controls Provider*.

Refer To:

D. PROVIDE DEDICATED 120V/20A CIRCUITS AS NEEDED FOR ACCESS CONTROL PANEL AND DOOR OPERATING HARDWARE. COORDINATE WORK WITH SECURITY DRAWINGS.

Refer To:

*G. FOR CARD READER(S): REFER TO ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE SPECIFICATIONS. PROVIDE CONDUIT, BOXES AND ASSOCIATED FITTINGS TO ALLOW **OTHERS** TO INSTALL A SECURITY SYSTEM AFTER WALL CLOSE-IN. COORDINATE WORK WITH THE PROVIDER OF THE SECURITY SYSTEM. CONCEAL CONDUITS; RECESS-MOUNT BOXES.*

RESPONSE

Access Control shall be provided in the contract. The access controls provider is the contractor's proposed supplier of the access controls; however, Marshall Health currently utilizes *Security Consultants and Solutions* (Ashland, KY) as their card access control provider. Access control devices shall be provided at the following doors: 101, 104A, 104V, 120, 123A, 123B, 146B, 152A, 152B, and 154A. An Access Control specification has been provided in this addendum (Section 281300). The contractor shall coordinate conduit, power, and wiring needs for electrified door hardware, locations of access control features, and any control panels.

41. QUESTION

Refer to Demolition Plan D1.01. Shall the gypsum board around the inside perimeter of the exterior building walls be removed to allow new MEP rough ins?

RESPONSE

See Question #24 Response.

42. QUESTION

Refer to Demolition Plan D1.01. Shall the in-wall insulation around the inside perimeter of the exterior building walls be removed and replaced with new in-wall insulation?

RESPONSE

The insulation on exterior partitions shall only be removed as required to complete work. Insulation shall be replaced only when damaged.

43. QUESTION

Refer to Weather Barrier Section 072500. Shall new weather barriers be installed around the inside of the exterior building walls?

RESPONSE

New weather barriers shall not be installed. In the event any new work on the exterior of the building damages or penetrates the existing weather barriers, patching and as needed repairs for those barriers shall be provided. Section 072500 shall be omitted from the project manual and specifications.

44. QUESTION

Refer to Plan Sheet A7.02, Corridor 101. Who is responsible for installing the Custom Graphics Wall Coverings? If Contractor, please provide details and specifications.

RESPONSE

The contractor shall provide and install custom graphic wall coverings.

The product shall be a water-activated prepasted wallpaper, pvc-free, Class A fire rating, Type I 10 Mil/225gsm.

A qualified supplier is: *Murals Your Way*

717 5th Street South

Hopkins, MN 55343

1(866) 753-8431

<https://www.muralsyourway.com/>

45. QUESTION

Could the locations where Level 5 finish be identified?

Refer To:

*Gypsum Board Assemblies Section 092116 Article C. Where Level 5 finish is indicated, **spray apply high build drywall surfacer** over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.*

RESPONSE

All walls to receive Level 5 finish.

46. QUESTION

Can the following specification section items be removed:

Ceramic Tiling Section 093013 Article 1.5 QUALITY ASSURANCE

A. Installer Qualifications:

- 1. Installer is a Five-Star member of the National Tile Contractors Association or a Trowel of Excellence member of the Tile Contractors' Association of America.*
- 2. Installer's supervisor for Project holds the International Masonry Institute's Foreman Certification.*
- 3. Installer employs only Ceramic Tile Education Foundation Certified Installers or installers recognized by the U.S. Department of Labor as Journeyman Tile Layers for Project.*

RESPONSE

No they cannot be removed. Contractor shall provide and install tile with such qualifications to provide quality assurance.

47. QUESTION

Marble thresholds appear not to be scheduled on the Finish Plans but appear to be identified within the Specifications. Are marble thresholds required?

ReferTo:

Ceramic Tiling Section 0930132.3 THRESHOLDS

- A. Marble, color **as scheduled**, honed finish; 2 inches wide by full width of wall or frame opening; 1/2 inch thick; beveled one long edge with radiused corners on top side; without holes, cracks, or open seams.*

RESPONSE

Drawings revised in this addendum. Yes.

48. QUESTION

Is the waterproof membrane necessary for concrete slab-on-grade and being installed on ground level?

Refer To:

Ceramic Tiling Section 093013 2.5 WATERPROOF MEMBRANE

- A. General: Manufacturer's standard product that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.*
- B. Latex Waterproof: Waterproofing latex compound applied by paint roller or quality paint brush to form a seamless waterproof membrane under ceramic tile installations.*
- 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. Flextile Ltd. Installation Solutions*

RESPONSE

The ceramic tile shall include waterproofing membrane.

49. QUESTION

Which grid system is required?

Refer To: *Acoustical Panel Ceilings Section 095113 Article 2.3 D., & E. METAL SUSPENSION SYSTEM, GENERAL Article D. is for a 15/16" grid system and Article E. is for a 9/16" grid system.*

RESPONSE

See Addendum #1 – Question #14 Response

50. QUESTION

Which grid system is required? Where is the restaurant located?

Refer To:

Acoustical Panel Ceilings Section 095113 Article 2.3 D., & E. CORRIDOR 101, CONFERENCE, AND RESTAURANT.

Article D. is for a 15/16" grid system and Article E. is for a 9/16" grid system.

RESPONSE

See Addendum #1 – Question #14 Response

51. QUESTION

In Toilet, Bath, and Laundry Accessories Articles within Specifications, Custodial Utility Shelf, Custodial Mop and Broom Holder, Custodial Paper Towel (Folded) Dispenser, & Custodial Soap Dispenser do not appear to be included in the Plan Sheets. Are they being OFOI or OFCI or CFCI?

RESPONSE

These accessories shall be provided (Contractor Furnished, Contractor Installed) for the existing Housekeeping Closet.

52. QUESTION

Where is the Custodial Closet for installing if required the Custodial Utility Shelf, Custodial Mop and Broom Holder, Custodial Paper Towel (Folded) Dispenser, & Custodial Soap Dispenser?

RESPONSE

The accessories shall be installed in the existing Housekeeping Closet.

53. QUESTION

Does the facility require a floor sink for custodial purposes?

RESPONSE

No. A floor sink exists in the existing Housekeeping Closet.

54. QUESTION

Toilet, Bath, and Laundry Accessories Articles 2.2 C., PUBLIC-USE WASHROOM ACCESSORIES Waste Receptacle: within Specifications below do not appear to be included in the Plan Sheets. Are they being OFOI or OFCI or CFCI?

RESPONSE

This item is not used in the project. Contract shall omit Waste Receptacle accessory.

55. QUESTION

Shall soap dispensers, paper towel dispensers and trash receptacles be installed at each Exam Room, Procedure Room & MOHS Labs?

RESPONSE

Accessories in exam rooms, procedures, and MOHS Lab shall be provided by the owner and installed by the contractor.

56. QUESTION

Electric hand dryers: Upon review of the electrical power plans there does not appear to be reference in providing power for the new electrical hand dryers. Are we to utilize an existing circuit [to] provide a new circuit per hand dryer location?

RESPONSE

Electric Hand Dryers are to be provided only in the existing Restrooms 167 and 168. Contractor to provide new 1P/20A circuit from 120/208V panel to new electric hand dryer location(s) in existing gang bathrooms as shown on revised plans. Coordinate exact hand dryer locations with architectural plans and elevations.

QUESTION

Are the limits of X-Ray requirements only for Keyed Note E42?

Refer To:

Sheet E-202 Electrical Power Notes H. CONTRACTOR SHALL X-RAY THE SLAB AT EACH POKE-THRU LOCATION PRIOR TO CORE-DRILLING TO VERIFY NO OBSTRUCTIONS EXIST. SUBMIT RESULTS OF X-RAY TO BUILDING STRUCTURAL ENGINEER.

Refer To:

Sheet E-206 Keyed Note 42 PROVIDE THREE (3) 3.5" CONDUIT PATHS. ONE (1) SHALL BE FOR EMERGENCY ATS FEEDER, ONE (1) SHALL BE FOR STANDBY ATS FEEDER, AND ONE (1) SHALL BE FOR LOW-VOLTAGE CONTROL WIRING. REFER TO RISER DIAGRAM FOR MORE INFORMATION.

RESPONSE

See Addendum #1 – Question #15 response.

57. QUESTION

To please the WVSFMO, shall the cost for Fire Suppression System to be installed within areas of Alternate No. 01 & Alternate No. 02 within Base Bid?

Refer To:

RENOVATION TO EXISTING HIGHER EDUCATION FACILITY INTO LABORATORY AND OUTPATIENT HEALTH CLINIC

IBC CONSTRUCTION TYPE: II-B

IBC OCCUPANCY TYPE: BUSINESS

NFPA CONSTRUCTION TYPE: II (000)

NFPA OCCUPANCY GROUP: BUSINESS

FIRE ALARM SYSTEM: YES

FULLY SPRINKLERED: YES

RESPONSE

Yes, the base bid scope of work for the sprinkler system shall include the entire building.

58. QUESTION

Could Fire Suppression Details & Specification be provided?

RESPONSE

The fire sprinkler system in Alternate No.1 and No.02 areas shall be installed as part of the base bid. Sprinkler heads shall be installed upright for future simple head orientation (upright to pend) change later. Refer to #32 comment and response above.

59. QUESTION

Based upon Selective Demolition Specification Section 024119 Article 1.6 Field Condition Hazardous Materials: Removal of hazardous materials is to be included in this contract, & Hazardous Material Notes on Sheet P-001, for bidding purposes, requesting a complete Asbestos Report to be provided?

Refer To:

SELECTIVE DEMOLITION D. Hazardous Materials: Removal of hazardous materials is to be included in this contract.

Refer To:

Sheet P-001 A. THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF

WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.

B. CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO

ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.

C. IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.

D. THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED

CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.

E. THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

RESPONSE

An asbestos testing report shall not be provided by the contractor nor shall one be provided by the Owner. If the Contractor has concerns regarding potential identification of hazardous materials, they shall notify the Owner and Architect immediately for action until proceeding further with the scope of work. Removal of hazardous materials shall not be included in this contract. Note 1.6.D shall be omitted from Section 024119.

60. QUESTION

Confirm the building will not be occupied by Owner during the renovations.

Refer To:

Selective Demolition Specification 024119 1.6 FIELD CONDITIONS

Owner will occupy portions of building immediately adjacent to selective demolition area.

Conduct selective demolition so Owner's operations will not be disrupted.

RESPONSE

The owner will not occupy the building during construction of the Base Bid scope of work. Once the Base Bid scope of work is complete. The owner shall occupy its defined area. The Owner shall occupy subsequent areas of work for Alternate 1 and Alternate 2 upon their completion.

61. QUESTION

Confirm a Phasing Plan is not required for the Alternates No. 01 & No. 02, if accepted.

RESPONSE

A phasing plan is not required. The project phasing shall follow the order of Base Bid, Alternate 1, and Alternate 2.

62. QUESTION

A plumbing plan P-201 was submitted with comment questions. It is attached to this addendum.

RESPONSE

Please refer to comment responses on plumbing sheet P-201 that was attached with this addendum-2.

63. QUESTION

Reference Drawing A0.01, Note 3 mentions Fire Extinguishers. The drawing shows a (1) Fire Extinguisher and Cabinet in the base bid, alt #1, and alt #2. There is no spec section for the FEC. Please specify if the FEC's are required and if so provide a specification section.

RESPONSE

See Addendum #1 – Question #11 response.

64. QUESTION

Signage – Reference Drawing A8.01 Signage, there is not a specification section for the signage. Is the Owner providing the signage? If contractor is to provide, please provide spec section.

RESPONSE

See Addendum #1 – Question #10 response.

65. QUESTION

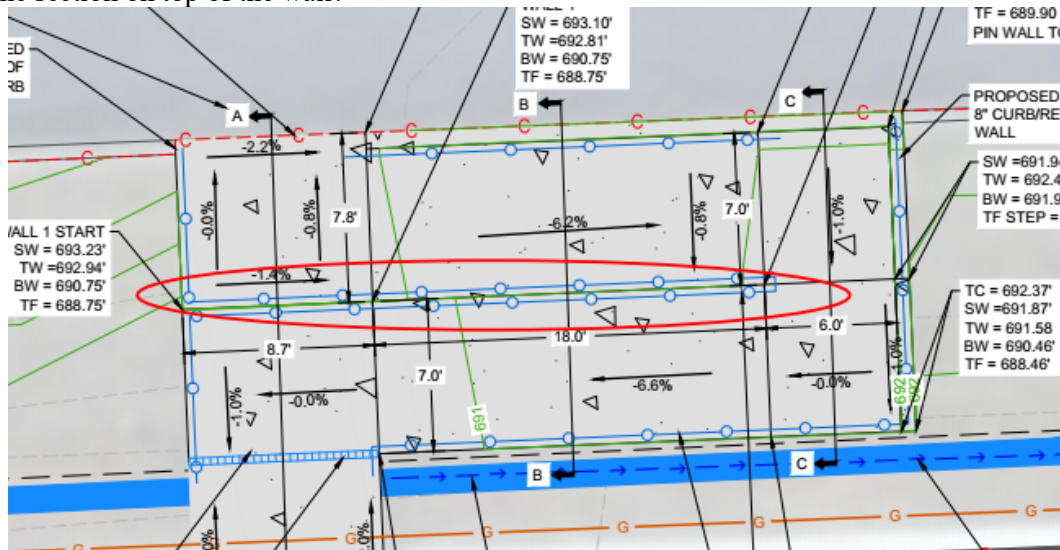
Does the exterior handrail at the sidewalk for Alternate No.1 receive paint? If so please clarify the type of paint.

RESPONSE

See Question #20 response.

66. QUESTION

Drawing C1.04 appears to show (2) handrails at the center of the sidewalk. Drawing C1.05 cut through section B-B, only shows one handrail at the center of the ramp. Please advise if the handrail wraps around the wall and is on both levels of the walk or if the handrail gets install as one section on top of the wall?



RESPONSE

The handrail wraps around and is both the upper and lower sections.

67. QUESTION

The following interior finishes were identified as discontinued:

FL7 Cancos Tile & Stone Sequoia Woodwhite Domesewh

RS1 Patcraft Forge Ahead 1500V Dried Sage

T1 American Olean Silk Strands Shantung

T2 American Olean Graphic Effects White Space

Can the architect provide new selections?

RESPONSE

Finishes have been revise in drawings provided in this addendum.

68. QUESTION

Plan sheet C1.02

- a) Plan call for 2-1/2" C-900 Pipe. My vendor is telling me they do not make c-900 in 2-1/2"
- b) On the 4" c-900 pipe what is the DR rating?
- c) Who is responsible for paying for the water tap cost from the water company?
 - d) Is the water company supplying the water meter? What size? (Your showing 2-1/2" but I don't think they make a 2-1/2" meter setter)

RESPONSE

- a. Design shall be revised to 3" C-900 pipe.
- b. DR-14
- c. The contractor shall pay for the water tap cost.
- d. The water company shall supply the meter, and it shall be a 2" meter size.

69. QUESTION

What is the completion time for this project?

What is the liquidated damages if any on this project?

RESPONSE

See Addendum #1 – Question #4 response.

70. QUESTION

There are questions on the glazing G2. The spec and the plans don't match. One calls for 1" un-insulated the other 9/16" security glass.

RESPONSE

Sheet A6.01 has been revised to clarify glazing. Section 088000 has been updated to clarify glazing specified. These items are included in this addendum.

71. QUESTION

Please provide specifications for the materials and coatings for the exterior steel handrail at the ADA ramp to be included Alternate #1. Reference C2.02.

RESPONSE

See Question #20 response.

72. QUESTION

At various places in the MEP drawings, general notes dictate that existing services should not be interrupted at any time. However, much of the existing services are noted to be demolished. Is the intent to keep existing systems operating during construction? Or is the sequence of demolition and installation to be left to the decision of the contractor?

RESPONSE

Existing electrical service to be maintained throughout construction.

73. QUESTION

The Hazardous Material Notes on M-002 state that it is possible that hazardous materials may be encountered during this project. Has a hazardous materials inspection been conducted? If so, please provide the report.

RESPONSE

See Question #61 response.

74. QUESTION

Tagged notes M20, M21, and M22 on sheet M-204 indicate that the roof should be reinforced below the new RTU's per structural drawings. The bid document set does not contain structural drawings. Please provide details and drawings of how the roof structure is to be reinforced below these units.

RESPONSE

See Addendum #1. The existing structure has been reviewed by a professional engineer (structural). A letter has been provided stating the existing roof can accommodate the planned roof-top units.

75. QUESTION

A4.01-A4.02: Please clarify the solid surface top material in the Toxicology Lab.

RESPONSE

Drawings revised in this addendum.

76. QUESTION

A4.03: Please confirm the countertop material in restroom 167 & 168 is plastic laminate.

RESPONSE

Drawings revised in this addendum.

77. QUESTION

2 & 3/A4.04: Please clarify the solid surface top material in the Mohs Lab.

RESPONSE

Drawings revised in this addendum.

78. QUESTION

A4.04, Details 8-11 Derm Office 132: Please clarify the partition dividers materials and color.

RESPONSE

Frame material is plastic with translucent partition. Frame color to be grey and the translucent partition to be frosted.

79. QUESTION

A4.04, Details 8-11 Derm Office 132: Please clarify the partition dividers materials and color.

RESPONSE

Frame material is plastic with translucent partition. Frame color to be grey and the translucent partition to be frosted.

80. QUESTION

A4.05 Rooms Waiting 121 and Reception 122: Marshall Health signage shown in “Views” on tiled walls and lines on plans (not noted) are not listed in Signage Schedule on A8.01. Please clarify if GC is to provide and if so, please provide specifications.

RESPONSE

See Question #26 Response. This applies to both 121 and 122 room locations.

81. QUESTION

A4.05 and 3/A5.02: Please provide details and specifications for the Partitions shown on the countertops at Reception 122.

RESPONSE

Provide an aluminum-framed divider with a 1/8” thickness acrylic panel. Sheet A4.05 has been updated

82. QUESTION

Will the owner bill the contractor for the electrical utility usage of the existing system during construction?

RESPONSE

See Addendum #1 – Question #25 Response

83. QUESTION

Specification section 015000 article 1.5 requires a temporary field office trailer. Would it be acceptable to provide a temporary office space for meetings inside the building rather than an office trailer?

RESPONSE

See Addendum #1 – Question 25 Response

84. QUESTION

Will a section of the existing parking lot be available for laydown area?

RESPONSE

See Addendum #1 – Question 25 Response

85. QUESTION

Aluminum Storefront specification (084113) specifies 2” x 4” storefront systems in article 2.1.A.3. Details on A6.01 depict storefront as thermally broken. The 2” x 4” storefront systems are not thermally broken. Should this storefront be 2” x 4-1/2” so as to accommodate a thermal break?

RESPONSE

The storefront framing shall be 2” x 4 1/2” and thermally broken. Section 084113 has been updated and included in this addendum.

86. QUESTION

Door 121 calls for a Type A frame with G1 (1” insulated glass units). The Type B vestibule returns adjacent to Door 121 call for G2 (9/16” laminated). Detail 12/A5.02 shows the corner between these elevations and notes the glass as 1/4” clear tempered glass. What is the correct

glazing at these locations? If it is 1/4" clear tempered glass, is 1-3/4" x 4-1/2" storefront acceptable since it is designed for 1/4" glass and 2" x 4-1/2" is designed for 1" IGU?

RESPONSE

See Question #70 Response.

87. QUESTION

Is delegated design required for storefront systems?

RESPONSE

No. Contractor shall provide shop drawings and product data for glazing and storefront systems.

88. QUESTION

Storefront doors in paragraph 2.5 of 084113 call for a 4" top rail and 4-1/2" vertical stiles. A medium stile door has 3-1/2" to both top rail and vertical stiles. A wide stile door has 5" to both top rail and vertical stiles. Which rail and stile width is required?

RESPONSE

Entrance Doors shall use medium type top rail and vertical stile (3 1/2"). An updated copy of the Section 084113 has been provided.

89. QUESTION

Drawing A4.05 and Detail 3/A5.02 seem to depict some sort of glass divider. What is the basis of design, or can you provide further detail of requirement?

RESPONSE

See Question #81 Response.

90. QUESTION

Window treatment subcontractors have mentioned that the members of the Window Coverings Manufacturers of America are voluntarily ceasing the production of window shades that incorporate operational strings, cords, loops, and the like, in the name of child safety. Production of these will cease on May 31st, 2024. Thus, this could make the specified products in section 122413 difficult, if not impossible, to secure. In the future, the members of the Window Coverings Manufacturers of America will supply only either manual, cordless operation or motorized; both of which will come at a cost premium to the current standards. Please advise how you would like to handle this supply issue.

RESPONSE

The contractor may propose pull type roller shades of equal quality and durability if and only if chain and clutch type roller shades are unavailable.

91. QUESTION

A6.01: please clarify which door(s) Note 1 applies. No reference to Note 1 in Remarks column.

RESPONSE

This note applies to Doors: 102, 103, 166, 167, 168, and 169.

92. QUESTION

Regarding the project site:

- e. Can the owner provide existing utility plans? Many utilities present but unmarked, such as fiber optic, gas, and electric.
- f. Sanitary sewer tie in is 11.5' deep. Can we tap into the existing manhole with a drop, to reduce shoring and disturbance to asphalt pavement?
- g. Sanitary sewer installation shall require asphalt removal and patch. Per drawings there is no additional asphalt removal or placement except for sanitary and curb. Is the owner okay with a patch only in these areas?

RESPONSE

- a. The contractor shall contact WV811 for utility locations and dig with caution.
- b. Putnam PSD does not want to tie into the manhole. Putnam PSD has requested the contractor to tie into the line leaving the manhole due to the location of the steps in the manhole.
- c. Yes, patch only the areas affected by trenching.

E. CLARIFICATIONS

- 1. In the Marshall University Terms & Conditions, Professional/Malpractice/Errors and Omission Insurance shall not be required. The terms and conditions have been updated to reflect this and are provide in this addendum.
- 2. Marshall Health's current fire alarm system supplier and provider is *Security Consultants and Solutions* (Ashland, KY).
- 3. The contractor shall provide a commercial security system in their bid. It shall consist of an alarm system (basis-of-design: Digital Monitoring Products) that includes motion detectors and glass-break detectors. It shall also include a CCTV system (basis-of-design: Hikvision). The security system shall provide coverage at building entrance points and main corridors. Marshall Health's current security system provider is *Security Consultants and Solutions* (Ashland, KY).

If you have any questions or comments, please feel free to contact me at your earliest convenience. As a reminder, bids will be received until **3:00 p.m. on Thursday, March 28, 2024**. A bid that is not submitted electronically through Bonfire™ should contain the information listed below on the face of the envelope or the bid may be rejected by the University.

Bid Opening Location: Marshall University Office of Purchasing
Old Main 125
One John Marshall Drive Huntington, WV 25755

Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.



CASEY ARTHUR, MBA, AIA, NCARB, LEED AP
Project Manager

**MARSHALL UNIVERSITY JOAN C EDWARDS SCHOOL OF MEDICINE
CABELL COUNTY, WEST VIRGINIA
FOR THE
MARSHALL HEALTH – FORMER STRAYER BUILDING
RENOVATIONS
THRASHER #T60-11110**

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MARSHALL UNIVERSITY

GENERAL TERMS AND CONDITIONS

1. CONTRACTUAL AGREEMENT: Issuance of an Award Document constitutes acceptance of this contract (the Contract) made by and between Marshall University (University or Marshall) and the Vendor. Vendor's signature to the Contract signifies Vendor's agreement to be bound by and accept the terms and conditions contained in the Contract. Therefore, the parties agree that the following contractual terms and conditions are dominate over any competing terms made a part of the Contract. **IN THE EVENT OF ANY CONFLICT BETWEEN VENDOR'S FORM(S) AND THESE GENERAL TERMS AND CONDITIONS, THESE GENERAL TERMS AND CONDITIONS SHALL CONTROL**

2. DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications, if applicable, included with the Solicitation/Contract.

2.1 "Award Document" means the document that identifies the Vendor as the Contract holder when signed by the Vendor and Marshall University's Office of Purchasing and, when necessary, approved as to form by the Attorney General.

2.2 "Bid" or "Proposal" means the Vendor's verbal bid or written bid provided in response to a solicitation by the University.

2.3 "Board" means the Governing Board of Marshall University.

2.4 "Buyer" means an individual designated by a Chief Procurement Officer to perform designated purchasing and acquisition functions as authorized by the Chief Procurement Officer.

2.5 "Chief Procurement Officer" means the individual designated by the President of Marshall University to manage, oversee and direct the purchasing and acquisition of supplies, equipment, services, and printing for the University.

2.6 "Contract" means the binding agreement that is entered between the University and the Vendor to provide requested goods and/or services requested in the Solicitation.

2.7 "Governing Board" means the Marshall University Board of Governors as provided for in the West Virginia state code.

2.8 "Higher Education Institution" means an institution as defined by Sections 401(f), (g) and (h) of the federal Higher Education Facilities Act of 1963, as amended.

2.9 "Office of Purchasing" means the section within Marshall University headed by the Chief Procurement Officer and its personnel.

2.10 “Purchasing Card” or “P-Card” means The State of West Virginia’s Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.

2.11 "Responsible Bidder" and "Responsible Vendor" mean a person and/or vendor who have the capability in all respects to perform contract requirements, and the integrity and reliability which will assure good faith performance.

2.12 "Responsive Bidder" and "Responsive Vendor" mean a person and/or a vendor who has submitted a bid which conforms in all material respects to the invitation to bid.

2.13 “Solicitation” means the notice of an opportunity to supply the University with goods and services.

2.14 “State” means the State of West Virginia and/or any of its agencies, commissions, boards, departments or divisions as context requires.

2.15 “University” means Marshall University or Marshall.

2.16 “Vendor” or “Vendors” means any entity providing either a verbal or written bid in response to the solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

2.17 “Will”, “Shall” and “Must” identifies a mandatory item or requirement that concludes the duty, obligation or requirement imposed is mandatory, as opposed to being directory or permissive.

3. CONTRACT TERM; RENEWAL; EXTENSION: The term of the Contract shall be determined in accordance with the category that has been identified as applicable to the Contract below:

Term Contract

Initial Contract Term: The Contract becomes effective on _____
_____ and extends for a period of _____ year(s).

Renewal Term: The Contract may be renewed upon the mutual written consent of the University and the Vendor. Any request for renewal should be submitted to the University thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Renewal of the Contract is limited to _____ successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed _____ months in total. Automatic renewal of the Contract is prohibited.

Any language that seeks to automatically renew, modify, or extend the Contract beyond the initial term or automatically continue the Contract period from term to term is deleted. The Contract may be renewed or continued only upon mutual written agreement of the Parties.

Alternate Renewal Term – This contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor and Agency.

Fixed Period Contract: The Contract becomes effective upon Vendor's receipt of the notice to proceed and must achieve Substantial Completion in 245 calendars and Final Completion must be achieved 30
calendar _____ days after Substantial Completion is
achieved. _____.

Fixed Period Contract with Renewals: The Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract must be completed within _____ days. Upon completion, the Vendor agrees that maintenance, monitoring, or warranty services will be provided for _____ successive one-year periods or multiple periods of less than one year provided that the multiple renewal periods do not exceed _____ months in total.

One-Time Purchase: The term of the Contract shall run from the issuance of the Award Document until all the goods contracted for have been delivered, but in no event, will the Contract extend for more than one fiscal year.

4. NOTICE TO PROCEED: Vendor shall begin performance of the Contract immediately upon receiving notice to proceed unless otherwise instructed by the University. Unless otherwise specified, the fully executed Award Document will be considered notice to proceed.

5. QUANTITIES: The quantities required under the Contract shall be determined in accordance with the category that has been identified as applicable to the Contract below.

Open End Contract: Quantities stated in the solicitation are approximations only, based on estimates supplied by the University. It is understood and agreed that the Contract shall cover the quantities ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

Service: The scope of the service to be provided will be more clearly defined in the specifications included herewith.

Combined Service and Goods: The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

One-Time Purchase: The Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under the Contract without an appropriate change order approved by the Vendor, University, and/or when necessary, the Attorney General's office.

6. EMERGENCY PURCHASES: The Chief Procurement Officer may suspend the use of a university wide mandatory contract (the University's Office of Purchasing has created standard specifications that are establish University wide contracts for commonly used commodities and services that are needed on a repetitive basis), or the competitive bidding process to allow a Department to purchase goods or services in the open market if for immediate or expedited delivery in an emergency.

Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work, provided that a required University emergency purchase with another vendor does not cause a breach of contract.

7. REQUIRED DOCUMENTS: All the items checked below must be provided to the University by the Vendor as specified below.

BID BOND (Construction Only): Pursuant to the requirements contained in W. Va. Code § 5-22-1(c), All Vendors submitting a bid on a construction project shall furnish a valid bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

PERFORMANCE BOND: The apparent successful Vendor shall provide a performance bond in the amount of 100% of the contract. The performance bond must be received by the Marshall University Office of Purchasing Office prior to Contract award.

LABOR/MATERIAL PAYMENT BOND: The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be received by the Marshall University Office of Purchasing Office prior to Contract award.

MAINTENANCE BOND: The successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and received by the Marshall University Office of Purchasing Office prior to Contract award.

LICENSE(S) / CERTIFICATIONS / PERMITS: In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the University.

INSERT ADDITIONAL REQUIREMENT BELOW:

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications prior to Contract award regardless whether that requirement is listed above.

8. INSURANCE: The Vendor shall furnish proof of the insurance identified by a checkmark below prior to Contract award. Subsequent to contract award, and prior to the insurance expiration date, Vendor shall provide the University with proof that the insurance mandated herein has been continued. Vendor must also provide with immediate notice of any changes in its insurance policies mandated herein, including but not limited to, policy cancelation, policy reduction, or change in insurers. The insurance coverages identified below must be maintained throughout the life of the contract. The Vendor shall also furnish proof of any additional insurance requirements prior to the Contract award regardless of whether that insurance requirement is listed in this section.

Any provisions requiring the University to maintain any type of insurance for either of its or the Vendors benefit is deleted.

Vendor must maintain:

Commercial General Liability Insurance in at least an amount of: _____ per occurrence and an aggregate of _____.

Automobile Liability Insurance in at least an amount of: _____ per occurrence and an aggregate of _____.

Professional/Malpractice/Errors and Omission Insurance in at least an amount of: _____ per occurrence and an aggregate of _____.

Commercial Crime and Third-Party Fidelity Insurance in an amount of: _____ per occurrence and an aggregate of _____.

Cyber Liability Insurance in an amount of: _____ per occurrence and an aggregate of _____. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by Vendor in performance of the Contract and shall include, but not limited to, claims involving infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress, invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, alteration of electronic information, extortion and network security. The policy shall provide coverage for breach response costs as well as regulatory fines and penalties as well as credit monitoring expenses with limits sufficient to respond to these obligations.

Builders Risk Insurance in an amount equal to 100% of the amount of the Contract.
_____ per occurrence and an aggregate of _____.

9. WORKERS' COMPENSATION INSURANCE: The apparent successful Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. LIQUIDATED DAMAGES: This clause shall in no way be considered exclusive and shall not limit the University's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

_____ per _____

Liquidated Damages Contained in the Specifications

11. ACCEPTANCE: Vendor's signature on the certification and signature page, constitutes an offer to the University that cannot be unilaterally withdrawn, signifies that the product or service proposed by Vendor meets the mandatory requirements for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions unless otherwise indicated.

12. STATUTE OF LIMITATIONS - Any clauses limiting the time in which the State may bring suit against the Vendor or any other third party are deleted.

13. PRICING/BEST PRICE GUARANTEE: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation by the University. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the University and invoice at the lower of the contract price or the publicly advertised sale price.

14. PAYMENT IN ARREARS: Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software licenses, subscriptions, or maintenance may be paid annually in advance.

15. PAYMENT METHODS: The Vendor must accept payment by electronic funds transfer or P-Card for payment of all orders under this Contract unless the box below is checked.

Vendor is not required to accept the State of West Virginia's P-Card or by electronic funds transfer as payment for all goods and services for the reason(s) stated below:

16. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract. Any references contained in the Contract, Vendor's bid, or in any American Institute of Architects documents obligating the University to pay to compensate Vendor, in whole or in part, for lost profit, pay a termination fee, pay liquidated damages if the Contract is terminated early, seeking to accelerate payments in the event of Contract termination, default, or non-funding, costs of collection, court costs, or attorney's fees, unless ordered by a court of competent jurisdiction is hereby deleted. Any language imposing and interest or charges due to late payment is deleted.

17. FEES OR COSTS: Any language obligating the State to pay costs of collection, court costs, or attorney's fees, unless ordered by a court of competent jurisdiction is deleted.

18. RISK SHIFTING: Any provision requiring the State to bear the costs of all or a majority of business/legal risks associated with this Contract, to indemnify the Vendor, or hold the Vendor or a third party harmless for any act or omission is hereby deleted.

19. LIMITING LIABILITY: Any language limiting the Vendor's liability for direct damages is deleted.

20. TAXES: The Vendor shall pay any applicable sales, use, personal property or other taxes arising out of the Contract and the transactions contemplated hereby. The University is exempt from federal and state taxes and will not pay or reimburse such taxes. The University will, upon request, provide a tax-exempt certificate to confirm its tax-exempt status.

21. FISCAL YEAR FUNDING: The Contract shall continue for the term stated herein, contingent upon funds being appropriated by the WV Legislature or otherwise being made available for this Contract. In the event funds are not appropriated or otherwise available, the Contract becomes of no effect and is null and void after June 30 of the current fiscal year. If that occurs, the University may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.

22. CANCELLATION/RIGHT TO TERMINATE: The University reserves the right to cancel/terminate the Contract immediately upon written notice to the Vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The University may also cancel any purchase or Contract upon thirty (30) days written notice to the Vendor. In the event of early cancellation, the University agrees to pay the Vendor only for all undisputed services rendered or goods received before the termination's effective date. All provisions are delete that seek to require the State to (1) compensate Vendor, in whole or in part, for loss profit, (2) pay a termination fee, or (3) pay liquidated damages if the Contract is terminated early.

In the event that a vendor fails to honor any contractual term or condition, the Chief Procurement Officer may cancel the contract and re-award the contract to the next lowest responsible and responsive bidder in accordance with the Marshall University Board of Governors Policy No. FA-9 Purchasing Policy, section 7.4.1

Any language seeking to accelerate payments in the event of Contract termination, default or non-funding is hereby deleted.

23. RIGHT OF FIRST REFUSAL Any language seeking to give the Vendor a Right of First Refusal is hereby deleted.

24. DISPUTES – Any language binding the University to any arbitration or to the decision of any arbitration board, commission, panel or other entity is deleted; as is any requirement to waive a jury trial.

Any language requiring or permitting disputes under this Contract to be resolved in the courts of any state other than the State of West Virginia is deleted. All legal actions for damages brought by Vendor against the University shall be brought in the West Virginia Legislative Claims Commission. Other causes of action must be brought in the West Virginia Court authorized by statute to exercise jurisdiction over it.

Any language requiring the State to agree to, or be subject to, any form of equitable relief not authorized by the Constitution or laws of State of West Virginia is deleted.

25. TIME: Time is of the essence with regard to all matters of time and performance in the Contract.

26. DELIVERY -All deliveries under the Contract will be FOB destination unless the State expressly and knowingly agrees otherwise. Any contrary delivery terms are hereby deleted.

27. APPLICABLE LAW: The Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, W. Va. Code or Marshall University Board of Governors Policy No. FA-9 Purchasing Policy is void and of no effect. Any language requiring the application of the law of any state other than the State of West Virginia in interpreting or enforcing the Contract is deleted. The Contract shall be governed by the laws of the State of West Virginia

28. COMPLIANCE WITH GOVERNING LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances. Vendor shall notify all subcontractors providing commodities or services related to this Contract that, as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances.

29. ARBITRATION: Any references made to arbitration contained in the Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to the Contract are hereby deleted, void, and of no effect.

30. MODIFICATIONS: Notwithstanding anything contained in the Contract to the contrary, no modification of the Contract shall be binding without mutual written consent of the University, and the Vendor.

31. AMENDMENTS - The parties agree that all amendments, modifications, alterations or changes to the Contract shall be by mutual agreement, in writing, and signed by both parties. Any language to the contrary is deleted.

32. NO WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of the Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

Any provisions requiring the University to waive any rights, claims or defenses is hereby deleted.

33. SUBSEQUENT FORMS: The terms and conditions contained in the Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the University such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

34. ASSIGNMENT: Neither the Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the University and any other government or office that may be required to approve such assignments.

The Vendor agrees not to assign the Contract to any person or entity without the State's prior written consent, which will not be unreasonably delayed or denied. The State reserves the right to assign this Contract to another State agency, board or commission upon thirty (30) days written notice to the Vendor. These restrictions do not apply to the payments made by the State. Any assignment will not become effective and binding upon the State until the State is notified of the assignment, and the State and Vendor execute a change order to the Contract.

35. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by the Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the University; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

36. UNIVERSITY EMPLOYEES: University employees are not permitted to utilize the Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

37. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the University, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the University's policies, procedures, and rules.

Proposals are NOT to be marked as confidential or proprietary Any Provisions regarding confidential treatment or non-disclosure of the terms and conditions of the Contract are hereby deleted. State contracts are public records under the West Virginia Freedom of Information Act ("FOIA") (W.Va. Code §29B-1-1, et. seq.) and public procurement laws. This Contract and other public records may be disclosed without notice to the vendor at the University's sole discretion. The University shall not be liable in any way for disclosure of any such records

Any provisions regarding confidentiality of or non-disclosure related to contract performance are only effective to the extent they are consistent with FOIA and incorporated into the Contract through a separately approved and signed non-disclosure agreement.

38. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of W. Va. Code §18B-5-4 and the Freedom of Information Act in W.Va. Code Chapter 29B.

**DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL,
CONTAINING A TRADE SECRET(S), OR IS OTHERWISE NOT SUBJECT TO
PUBLIC DISCLOSURE.**

Submission of any bid, proposal, or other document to the Marshall University Office of Purchasing constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document.

39. LICENSING: Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local University of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state University or political subdivision. Upon request, the Vendor must provide all necessary releases to obtain information to enable the University to verify that the Vendor is licensed and in good standing with the above entities.

40. ANTITRUST: In submitting a bid to, signing a contract with, or accepting an Award Document from Marshall University, the Vendor agrees to convey, sell, assign, or transfer to the University all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by Marshall University. Such assignment shall be made and become effective at the time the University tenders the initial payment to Vendor.

41. THIRD-PARTY SOFTWARE: If this Contract contemplates or requires the use of third-party software, the vendor represents that none of the mandatory click-through, unsigned, or web-linked terms and conditions presented or required before using such third-party software conflict with any term of this Addendum or that it has the authority to modify such third-party software's terms and conditions to be subordinate to this Addendum. The Vendor shall indemnify and defend the State against all claims resulting from an assertion that such third-party terms and conditions are not in accord with, or subordinate to, this Addendum.

42. RIGHT TO REPOSSESSION NOTICE: Any provision for repossession of equipment without notice is hereby deleted. However, the State does recognize a right of repossession with notice.

43. VENDOR CERTIFICATIONS: By signing its bid or entering into the Contract, Vendor certifies (1) that its bid or offer was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid or offer for the same material, supplies, equipment or services; (2) that its bid or offer is in all respects fair and without collusion or fraud; (3) that the Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity

that could be considered a violation of law; and (4) that it has reviewed the Contract in its entirety; understands the requirements, terms and conditions, and other information contained herein. Vendor's signature on its bid or offer also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the University. The individual signing this bid or offer on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or offer or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with the all State agencies as required.

44. VENDOR RELATIONSHIP: The relationship of the Vendor to the University shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the University for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing. Vendor shall hold harmless the State, and shall provide the State and University with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

45. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the University, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage, and hour laws.

46. PURCHASING AFFIDAVIT: In accordance with West Virginia Code §18B-5-5 and §5A-3-18 the University is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State, Vendors are required to sign, notarize, and submit the Purchasing Affidavit to the Marshall University Office of Purchasing affirming under oath that it is not in default on any monetary obligation owed to the state or a political subdivision of the state.

47. WEST VIRGINIA DRUG-FREE WORKPLACE CONFORMANCE AFFIDAVIT West Virginia Alcohol and Drug-Free Workplace Act requires public improvement contractors to have and implement a drug-free workplace policy that requires drug and alcohol testing. This act is applicable to any construction, reconstruction, improvement, enlargement, painting, decorating or repair of any public improvement let to contract for which the value of contract is over \$100,000. No public authority may award a public improvement contract which is to be let to bid to a contractor unless the terms of the contract require the

contractor and its subcontractors to implement and maintain a written drug-free workplace policy and the contractor and its subcontractors provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free workplace policy.

48. DISCLOSURE OF INTERESTED PARTIES A state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$1,000,000 or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract.

49. CONFLICT OF INTEREST: Vendor, its officers, members, or employees shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the University.

50. MARSHALL UNIVERSITY'S INFORMATION TECHNOLOGY SERVICES AND SUPPORT DEPARTMENT (IT) FEES: If a vendor requires services through the Marshall University's IT Department, they must reimburse the University at the IT Rate Schedule which is located at: <https://www.marshall.edu/it/rates/>.

51. PUBLICITY: Vendor shall not, in any way or in any form, publicize or advertise the fact that Vendor is supplying goods or services to the University without the express written consent of the Marshall University Communications Department. Requests should be sent to ucomm@marshall.edu.

52. UNIVERSITY MARKS: Vendor shall not, in any way or in any form use the University's trademarks or other intellectual property without the express written consent of the Marshall University Communications Department. Requests should be sent to ucomm@marshall.edu.

53. INTELLECTUAL PROPERTY: The University will own all rights, title and interest in any and all intellectual property rights created in the performance or otherwise arising out of the agreement, and Vendor will execute any assignments of other documents necessary for the University to perfect such rights, provided that, for research collaboration pursuant to subcontracts under sponsored research agreements, intellectual property rights will be governed by the terms of the grant or contract to the University to the extent such intellectual property terms to apply to subcontractors.

54. FERPA: Vendor agrees to abide by the Family Education Rights and Privacy Act of 1974 ("FERPA). To the extent that Vendor receives personally identifiable information from education records as defined in (FERPA), Vendor agrees to abide by the limitations on re-disclosure set forth in which states that the officers, employees and agents of a party that receives education record information from Marshall may use the information, but only for the purposes for which the disclosure was made.

55. REPORTS: Vendor shall provide the University with the following reports identified by a checked box below:

Such reports as the University may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by University, etc.

Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by University.

56. PREFERENCE FOR THE USE OF DOMESTIC STEEL PRODUCTS IN STATE CONTRACT PROJECTS: Pursuant to W.Va. Code §5A-3-56, (a)(1) Except when authorized pursuant to the provisions of subsection (b) of this section, no contractor may use or supply steel products for a state contract project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W.Va. Code §5A-3-56. As used in this section (2):

(A) "State contract project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of any materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after the effective date of this section on or after June 6, 2001.

(B) "Steel products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more of such operations, from steel made by the open hearth, basic oxygen, electric furnace, bessemer or other steel making process.

(b) Notwithstanding any provision of subsection (a) of this section to the contrary, the Director of the West Virginia Department of Administration, Purchasing Division ("Director of the Purchasing Division") may, in writing, authorize the use of foreign steel products if:

(1) The cost for each contract item used does not exceed one tenth of one percent of the total contract cost or \$2,500, whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or

(2) The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

57. PREFERENCE FOR DOMESTIC ALUMINUM, GLASS AND STEEL PRODUCTS:

In Accordance with W. Va. Code § 5-19-1 et seq.,

(a) Every state spending unit, as defined in chapter five-a, shall require that every contract or subcontract for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works contain a provision that, if any aluminum, glass or steel products are to be supplied in the performance of the contract, or subcontract, only domestic aluminum, glass or steel products shall be supplied unless the spending officer, as defined in chapter five-a, determines, in writing, after the receipt of offers or bids, that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest or that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements: Provided,

That this article applies to any public works contract awarded in an amount more than \$50,000, and with regard to steel only, this article applies to any public works contract awarded in an amount more than \$50,000 or requiring more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a “substantial labor surplus area”, as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products.

This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to the Contract.

(Name, Title)

(Printed Name and Title)

(Address)

(Phone Number)

(Fax Number)

(Email Address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through BONFIRE, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to Marshall University that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the Vendor in a contractual relationship; and that to the best of my knowledge, the Vendor will properly register with the WV Purchasing Division and Marshall University.

(Company)

(Authorized Signature)

(Printed Name and Title of Authorized Representative)

(Date)

(Phone Number)

(Fax Number)

SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of building or structure.
2. Demolition and removal of selected site elements.
3. Salvage of existing items to be reused or recycled.

1.2 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.3 INFORMATIONAL SUBMITTALS

- A. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control. Indicate proposed locations and construction of barriers.
- B. Schedule of selective demolition activities with starting and ending dates for each activity.
- C. Predemolition photographs or video.
- D. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician.

1.4 CLOSEOUT SUBMITTALS

- A. Inventory of items that have been removed and salvaged.

1.5 QUALITY ASSURANCE

- A. Refrigerant Recovery Technician Qualifications: Certified by an EPA-approved certification program.

1.6 FIELD CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Storage or sale of removed items or materials on-site is not permitted.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.
- F. Arrange selective demolition schedule so as not to interfere with Owner's operations.

1.7 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

- B. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
- C. Inventory and record the condition of items to be removed and salvaged.

3.2 PREPARATION

- A. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.

3.3 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
 - 2. Arrange to shut off utilities with utility companies.
 - 3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 - 4. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
 - d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
 - e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
 - f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
 - g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.4 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
- C. Remove temporary barricades and protections where hazards no longer exist.

3.5 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
 - 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 - 3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 - 4. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 - 5. Dispose of demolished items and materials promptly.
- B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
- C. Removed and Salvaged Items:
 - 1. Clean salvaged items.
 - 2. Pack or crate items after cleaning. Identify contents of containers.
 - 3. Store items in a secure area until delivery to Owner.
 - 4. Transport items to Owner's storage area designated by Owner.
 - 5. Protect items from damage during transport and storage.
- D. Removed and Reinstalled Items:
 - 1. Clean and repair items to functional condition adequate for intended reuse.
 - 2. Pack or crate items after cleaning and repairing. Identify contents of containers.

3. Protect items from damage during transport and storage.
 4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
- E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.

3.6 CLEANING

- A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.
1. Do not allow demolished materials to accumulate on-site.
 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
 4. Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- B. Burning: Do not burn demolished materials.
- C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

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SECTION 084113 - ALUMINUM-FRAMED STOREFRONTS & ENTRANCES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Aluminum-framed storefront systems.
2. Exterior manual-swing entrance doors and door frame units.

1.2 REFERENCE STANDARDS

- A. AAMA CW-10 - Care and Handling of Architectural Aluminum From Shop to Site; 2015.
- B. AAMA 501.4 - Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drifts; 2018.
- C. AAMA 609 & 610 - Cleaning and Maintenance Guide for Architecturally Finished Aluminum (Combined Document); 2015.
- D. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2014 (2015 Errata).
- E. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- F. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.
- G. ASTM B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate (Metric); 2014.
- H. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.
- I. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2013.
- J. ASTM C794 - Standard Test Method for Adhesion-In-Peel of Elastomeric Joint Sealants; 2018.
- K. ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the

Specimen; 2004 (Reapproved 2012).

- L. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference; 2000 (Reapproved 2016).

1.3 ACTION SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, and internal drainage details.
- C. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related work, expansion and contraction joint location and details, and field welding required.
- D. Samples: Submit two samples 4 by 4 inches in size illustrating finished aluminum surface, glass, infill panels, glazing materials.
- E. Hardware Schedule: Complete itemization of each item of hardware to be provided for each door, cross-referenced to door identification numbers in Contract Documents.

1.4 QUALITY ASSURANCE

- A. Designer Qualifications: Design structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed in WV.
- B. Manufacturer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.
 - 1. Provide certified glass products through ANSI accredited certifications that include plant audits and independent laboratory performance testing.
 - a. Insulating Glass Certification Council (IGCC).
 - b. Safety Glazing Certification Council (SGCC).

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Handle products of this section in accordance with AAMA CW-10.
- B. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond to aluminum when exposed to sunlight or weather.

1.6 FIELD CONDITIONS

- A. Do not install sealants when ambient temperature is less than 40 degrees F. Maintain this minimum temperature during and 48 hours after installation.

1.7 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Provide five year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units.
- C. Provide five year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking.

PART 2 – PRODUCTS

2.1 ALUMINUM-FRAMED STOREFRONT

- A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
 - 1. Glazing Rabbet: For 1 inch insulating glazing.
 - 2. Glazing Position: Centered (front to back).
 - 3. Vertical Mullion Dimensions: 2 inches wide by 4 inches deep or 2 inches wide by 6 inches deep. See wall sections for locations.
 - 4. Finish: Class II natural anodized.
 - a. Factory finish all surfaces that will be exposed in completed assemblies.
 - b. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.
 - 5. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.
 - 6. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
 - 7. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
 - 8. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.
 - 9. Movement: Allow for movement between storefront and adjacent construction, without damage to components or deterioration of seals.
 - 10. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.
 - 11. Air and Vapor Seal: Maintain continuous air barrier and vapor retarder throughout assembly, primarily in line with inside pane of glazing and inner sheet of infill panel and heel bead of glazing compound.

12. Preparation for Window Treatments: Provide reinforced interior horizontal head rail.

B. PERFORMANCE REQUIREMENTS

1. Wind Loads: Design and size components to withstand the specified load requirements without damage or permanent set, when tested in accordance with ASTM E330/E330M, using loads 1.5 times the design wind loads and 10 second duration of maximum load.
 - a. Design Wind Loads: Comply with requirements of ASCE 7.
 - b. Member Deflection: Limit member deflection to flexure limit of glass in any direction, with full recovery of glazing materials.
2. Air Leakage: 0.06 cfm/sq ft maximum leakage of storefront wall area when tested in accordance with ASTM E283/E283M at 1.57 psf pressure difference.
3. Overall U-value Including Glazing: 0.50 Btu/(hr sq ft deg F), maximum.

2.2 COMPONENTS

- A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
 1. Framing members for interior applications need not be thermally broken.
 2. Glazing Stops: Flush.
- B. Infill Panels: Insulated, aluminum sheet face and back, with edges formed to fit glazing channel and sealed.
 1. Finish: Same as storefront.

2.3 MATERIALS

- A. Extruded Aluminum: ASTM B221 (ASTM B221M).
- B. Sheet Aluminum: ASTM B209 (ASTM B209M).
- C. Weatherseal Sealant: Silicone, with adhesion in compliance with ASTM C794; compatible with glazing accessories.
- D. Sill Flashing Sealant: Elastomeric, silicone or polyurethane, and compatible with flashing material.
- E. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.
- F. Glazing Accessories: As specified in Section 08 80 00.

2.4 FINISHES

- A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils thick.
- B. Class II Natural Anodized Finish: AAMA 611 AA-M12C22A31 Clear anodic coating not less than 0.4 mils thick.

2.5 ENTRANCE DOORS

- A. Swing Doors: Glazed aluminum.
 - 1. Thickness: 1-3/4 inches.
 - 2. Top Rail: 3-1/2 inches wide.
 - 3. Vertical Stiles: 3-1/2 inches wide.
 - 4. Bottom Rail: 10 inches wide.
 - 5. Glazing Stops: Square.
 - 6. Finish: Same as storefront.
- B. For each door, include weatherstripping, sill sweep strip, and threshold.
- C. Other Door Hardware: Storefront manufacturer's standard type to suit application.
 - 1. Finish on Hand-Contacted Items: Polished Black Stainless Steel.
 - 2. For each door, include hardware per door schedule.

2.6 GLAZING

- A. Glazing: Comply with Section 088000 "Glazing."
- B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.
- C. Glazing Sealants: As recommended by manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify dimensions, tolerances, and method of attachment with other related work.
- B. Verify that curtain wall openings and adjoining air and vapor seal materials are ready to receive work of this section.
- C. Verify that anchorage devices have been properly installed and located.

3.2 INSTALLATION

- A. Install wall system in accordance with manufacturer's instructions.
- B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
- C. Provide alignment attachments and shims to permanently fasten system to building structure.

- D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.
- E. Provide thermal isolation where components penetrate or disrupt building insulation.
- F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.
- G. Where fasteners penetrate sill flashings, make watertight by seating and sealing fastener heads to sill flashing.
- H. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- I. Install hardware using templates provided. See Section 087100 for hardware installation requirements.
- J. Install glazing and infill panels in accordance with Section 08 80 00, using glazing method required to achieve performance criteria.
- K. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.
- L. Set thresholds in bed of sealant and secure.

3.3 CLEANING

- A. Remove protective material from pre-finished aluminum surfaces.
- B. Upon completion of installation, thoroughly clean aluminum surfaces in accordance with AAMA 609 & 610.

3.4 PROTECTION

- A. Protect installed products from damage until Date of Substantial Completion.

END OF SECTION 084113

SECTION 088000 - GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Insulating glass units.
- B. Glazing units.
- C. Glazing compounds and accessories.

1.02 RELATED REQUIREMENTS

1.03 REFERENCE STANDARDS

- A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; Current Edition.
- B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test; 2015.
- C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- D. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2015).
- E. ASTM C1036 - Standard Specification for Flat Glass; 2016.
- F. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2018.
- G. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass; 2014.
- H. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016.
- I. ASTM C1376 - Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass; 2015.
- J. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2019.
- K. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings; 2016.
- L. GANA (GM) - GANA Glazing Manual; 2008.
- M. GANA (SM) - GANA Sealant Manual; 2008.
- N. GANA (LGRM) - Laminated Glazing Reference Manual; 2009.
- O. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- P. IGMA TM-3000 - North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial & Residential Use; 1990 (2016).
- Q. ITS (DIR) - Directory of Listed Products; current edition.
- R. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2017.
- S. NFRC 100 - Procedure for Determining Fenestration Product U-factors; 2017.
- T. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and

Visible Transmittance at Normal Incidence; 2014, with Errata (2017).

- U. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems; 2017.
- V. UL (DIR) - Online Certifications Directory; Current Edition.
- W. UL 10B - Standard for Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- X. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions
- Y. UL 263 - Standard for Fire Tests of Building Construction and Materials; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data on Insulating Glass Unit and Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.
- C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.
- D. Samples: Submit four samples 12 by 12 inch in size of glass units.
- E. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

- A. Perform Work in accordance with GANA (GM), GANA (SM), GANA (LGRM), and IGMA TM-3000 for glazing installation methods.

1.06 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Guardian Glass, LLC, 2300 Auburn Hills, MI, 48326. Contact: Allison Toadvine; 484-816-7657 or comparable by one of the following:

1. Guardian Glass LLC (Basis-of Design).
2. Pilkington North America.
3. Vitro.
4. Or approved equal by architect.

2.02 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

- A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
1. Design Pressure: Calculated in accordance with ASCE 7.
 2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
 3. 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 and keeps glazing retained in place with a suitable margin of safety under design conditions.
 4. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
 5. Glass thicknesses listed are minimum.
 6. Thermal Loads: Design glazing to resist thermal stress breakage
- B. Vapor Retarder and Air Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure vapor retarder and air barrier.
1. In conjunction with vapor retarder and joint sealer materials described in other sections.
- C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
1. Center of Glass U-Value: Comply with NFRC 100 using the latest non-beta version of Lawrence Berkeley National Laboratory (LBNL) WINDOW computer program.
 2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using the latest non-beta version of Lawrence Berkeley National Laboratory (LBNL) WINDOW computer program.
 3. Solar Optical Properties: Comply with NFRC 300 test method.

2.03 GLASS MATERIALS

- A. Float Glass: Provide float glass based glazing unless otherwise indicated.
1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.

2. Kind HS - Heat-Strengthened Type: Complies with ASTM C1048.
3. Kind FT - Fully Tempered Type: Complies with ASTM C1048.

B. Laminated Glass: Float glass laminated in accordance with ASTM C1172

1. Laminated Safety Glass: Complies with ANSI Z97.1 - Class B or 16 CFR 1201 - Category I impact test requirements.

2.04 MONOLITHIC LAMINATED GLASS SCHEDULE

A. Monolithic Laminated Glass Type G2 – Location: Interior Vestibule Glazing.

1. Overall Unit Thickness: 1 inch.
2. Thickness of Each Glass Lite: 1/4 inch (6 mm).
3. Outboard Lite: Clear Glass.
 - a. Heat Treatment: Tempered; ASTM C 1048, Kind FT; CPSC 16CFR-1201; ANSI Z 97.1].
4. Interspace: air filled, 12 mm (1/2 inch) wide, hermetically sealed, dehydrated air space.
5. Spacer Color and Edge Seal: Black.
6. Inboard Lite: Guardian Clear Glass.
 - a. Heat-Treatment: Tempered; ASTM C 1048, Kind FT; CPSC 16CFR-1201; ANSI Z 97.1.

2.05 INSULATING GLASS SCHEDULE

A. Type G1 - Sealed Insulating Glass Units: Vision glazing, with Low-E coating.

1. Application: All exterior glazing unless otherwise indicated.
2. Between-lite space filled with air.
3. Thermal Resistance (U-Value): Match existing, maximum.
4. Total Solar Heat Gain Coefficient: Match existing, nominal.
5. Total Visible Light Transmittance: Match existing.
6. Basis of Design: Guardian Industries Corp: www.sunguardglass.com.
7. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
8. Inboard Lite: Heat-strengthened float glass, 1/4 inch thick.
9. Total Thickness: 1 inch.

B. Type G2 – Sealed Insulated Glass Units: Location: Interior Vestibule Glazing.

1. Overall Unit Thickness: 1 inch.
2. Thickness of Each Glass Lite: 1/4 inch (6 mm).
3. Outboard Lite: Clear Glass.
 - a. Heat Treatment: Tempered; ASTM C 1048, Kind FT; CPSC 16CFR-1201; ANSI Z 97.1].
4. Interspace: air filled, 12 mm (1/2 inch) wide, hermetically sealed, dehydrated air space.
5. Spacer Color and Edge Seal: Black.
6. Inboard Lite: Guardian Clear Glass.
 - a. Heat-Treatment: Tempered; ASTM C 1048, Kind FT; CPSC 16CFR-1201; ANSI Z 97.1.

b. ACCESSORIES

- i. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.
- ii. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.
- iii. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.
- iv. Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.
- v. Glazing Clips: Manufacturer's standard type.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

- A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.
- B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.
- C. Verify that sealing between joints of glass framing members has been completed effectively.
- D. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

- A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.
- B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.
- C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.
- D. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.
- E. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.

- F. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, etc.

3.03 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)

- A. Application - Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.
- B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
- C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.
- D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

3.04 CLEANING

- A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.
- B. Remove non-permanent labels immediately after glazing installation is complete.
- C. Clean glass and adjacent surfaces after sealants are fully cured.
- D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

3.05 PROTECTION

- A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.
- B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION

SECTION 2813 00 – ACCESS CONTROL

PART 1 - GENERAL

1.01 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. Divisions 26, 27, and 28 basic materials and methods sections apply to work specified in this section.

1.02 SUMMARY

- A. This Section includes an IP based security access control system (ACS) consisting of a Cloud Host Service, client workstations utilizing any supported web browser and field-installed IP based Reader-Controllers and/or IP-Bridges connected by a high-speed electronic data transmission network. This system's features include regulating access through controlled openings, credential management, monitoring of field devices, and reporting.
- B. Related Sections:
 - 1. 14 28 16 – Elevator Controls
 - 2. 28 16 33.16 – Intrusion Detection Interfaces to Access Control Hardware
 - 3. 28 16 43 – Perimeter Security Systems
 - 4. 26 05 53 – Cabling, Conduit, and Junction Box requirements
 - 5. 27 15 00 Category and/or Optical Fiber Cable and connectivity specification and installation standards
 - 6. 08 71 00 – Door Hardware

1.03 REFERENCES

- A. Abbreviations and Acronyms
 - 1. ACS – Access Control System
 - 2. AES – Advanced Encryption Standard
 - 3. I/O – Input/Output
 - 4. ISAM – Indexed Sequential Access Method
 - 5. LAN – Local area network.
 - 6. LED – Light-emitting diode
 - 7. PC – Personal Computer
 - 8. RFID – Radio Frequency Identification

9. TCP/IP – Transport Control Protocol/Internet Protocol
10. UPS – Uninterruptible power supply.
11. WAN – Wide area network

B. Definitions

1. ACS Cloud Service – A cloud-based service hosted and maintained by the Manufacturer for administrating and communicating to Reader Controllers and IP-Bridges.
2. IP based Reader-Controller - An intelligent network-connected reader controller unit with inputs, outputs and data storage capability.
3. IP-Bridge – An intelligent interface to legacy-based access control systems using traditional structured cabling and proximity readers.
4. Access Point – Any Reader Controller, port on an IP-Bridge, or wireless electronic lockset connected to the ACS Host.
5. Credential - RFID based token assigned to an entity and used to identify that entity.
6. Mobile Credential – Token using Bluetooth® Low Energy on any Android or Apple device
7. Identifier - A credential card, keypad personal identification number or code, or other unique identification entered as data into the entry-control database for the purpose of identifying an individual. Where this term is presented with an initial capital letter, this definition applies.
8. RFID - An automatic identification method, relying on storing and remotely retrieving data using devices called RFID tags or transponders.
9. Client - Any device with a supported web browser that can connect to either the Cloud Service or Host Server.

C. Reference Standards

1. SIA BIO-01-1993.02(R2000.06) - Biometric Standard - Vocabulary for Testing
2. Institute of Electronic and Electrical Engineers (IEEE) 802.3 standards
3. Underwriters Laboratories
 - a. UL 294 - Access Control System Units
 - b. UL 294B - Power Over Ethernet
4. FCC 47, CFR Part 15
5. Industry Canada - Radio Standards Specification RSS-210 License-exempt Radio Apparatus
6. National Institute of Standards and Technology (NIST)
7. FIPS 197 - Advanced Encryption Standard (AES)
8. ISO 14443A, 14443B - Proximity Cards

9. EIA/TIA-569 - Commercial Building Standard for Telecommunications Pathways and Spaces
10. ETSI EN300, EN330-2, EN301 489-1

1.04 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 requirements.
2. Highlight, encircle, or otherwise specifically identify on submittals deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
3. Prior to forwarding submittal, comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.

B. Action Submittals

1. Product Data
 - a. Manufacturers printed and electronic data sheets, including operating characteristics, furnished specialties, and accessories.
 - b. References for each product to a location on Drawings.
 - c. Test and evaluation data presented in compliance with SIA BIO-01
 - d. Manufacturers' installation and operation manuals
2. Shop Drawings
 - a. Diagrams for cable management system.
 - b. System labeling schedules, including electronic copy of labeling schedules that are part of the cable and asset identification system of the software specified in Part 2.
 - c. Wiring Diagrams. Show typical wiring schematics including the following:
 - 1) Workstation outlets, jacks, and jack assemblies.
 - 2) Patch cords.
 - 3) Patch panels.
 - 4) Active network components.
3. System installation planning documents

C. Closeout Submittals

1. Field quality-control test reports
2. End User Training Plan
3. Operation and Maintenance Data
 - a. Microsoft Windows software documentation.
 - b. For each PC, installation and operating documentation, manuals, and software for the PC and all installed peripherals.
 - 1) Include system restore, emergency boot diskettes, and drivers for all installed hardware.

- 2) The software manual shall describe the functions of all software and shall include all other information necessary to enable proper programming and operation. The manual shall fully explain all procedures and instructions for the operation of the system.
- c. System installation and setup guides.
4. List of recommended spare parts. Insert a list of spare parts, or delete

1.05 QUALITY ASSURANCE

- A. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- B. Coordination Conferences:
 1. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.
 2. Construction Phase: schedule and hold a meeting to discuss managing access during the construction phase.
- C. Installation Contractor:
 1. Integrating firm shall have worked satisfactorily for a minimum of (5) years of completing systems equal to this scope, quality, type and complexity.
 2. Key personnel assigned to the project shall each have a minimum of (5) years of experience in completing systems equal to this scope, quality, type and complexity.
 3. Contractor shall maintain complete installation and service facilities for the duration of the project contract.
- D. All work shall be done by expert technicians qualified in the field with knowledge of specified systems. Workmanship shall comply with industry best practices concerning grounding, shielding, cable dressing, cable termination and equipment mounting.
- E. Where required by the local municipality, technicians are required to have proper licensing to perform work within this specification.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. IP Bridges and IP-based Reader-Controllers:
 1. Store in temperature and humidity-controlled environment in original manufacturer's sealed containers. Maintain ambient temperature between -40 and 120 deg F (-40 and 50 deg C).
 2. Open each container; verify contents against packing list, and file copy of packing list, complete with container identification for inclusion in operation and maintenance data.

3. Mark packing list with designations that have been assigned to materials and equipment.

1.07 COORDINATION

- A. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- B. Construction Access: coordinate the implementation of any temporary construction credentials and the management of access during the construction phase.
- C. Coordinate with Owner, Division 08 contractor, and electrical contractor prior to rough-in to coordinate exact location of end devices and door functionality.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- E. Meet at least once, prior to rough-in, with horizontal cabling installer to verify all cabling requirements. Coordinate cable jacketing color according to specification 25 05 53. Remove this item if cabling is being provided by the security contractor, and not a structured cabling company.
- F. Division 26, 27, and 28 contractors shall verify electrical service provided prior to ordering any electrical equipment serving electronic door hardware equipment and maintain responsibility for properly coordinating the electrical work including location of the electrical connections.
- G. Obtain submittals of all door hardware equipment from door hardware specification and Division 08. Carefully review door hardware submittal and advise in writing of any discrepancies through an RFI.
- H. The contractor shall include necessary wiring and programming for fire-alarm panel tie-in and door release based upon the requirements and direction of the Owner and/or AHJ. Contractor is responsible to schedule and coordinate with fire alarm contractor.
- I. Coordinate all interfaces between door hardware and electrical contractor.
- J. A licensed and insured Electrical Contractor shall provide 120VAC power to all locations requiring power. Modify as needed, based on power requirements of door hardware and/or IP Bridges.

1.08 WARRANTY

- A. Security Integrator shall provide a limited one-year hardware warranty for the product to be free of defects in material and workmanship.
- B. Security Integrator shall provide software updates for cloud service as they are available and will be automatically granted. On premise software updates are available through a software upgrade program.
- C. Manufacturer shall make available an extended warranty and maintenance support option.

PART 2 - PRODUCTS

2.01 EQUIPMENT

- A. Software:
 - 1. Basis-of-Design: Acre Security Premisys System
- B. Hardware:
 - 1. Basis-of-Design: Schlage RC series Reader Controller
 - 2. Basis-of-Design: Isonas IP Bridge
 - 3. Basis-of-Design: Acre Security Premisys System wireless electronic lockset
- C. Substitutions: Approved by the Architect and Owner. Shall meet performance standards as noted in this specification.

2.02 DESCRIPTION

- A. Provide a complete and operational access control system (ACS) as indicated in the drawings and plans, including but not limited to an ACS Cloud Service Host, IP based Reader-Controllers and/or IP-Bridges connected by a high-speed electronic data transmission network.
 - 1. The Cloud Service shall be host on Amazon Web Services and provide for a minimum of 99.5% uptime. The Manufacturer shall closely monitor all conditions related to the Cloud Service infrastructure.
- B. The network connecting the ACS Cloud Service Host, IP Bridge and IP based Reader-Controllers shall be a Local Area Network (LAN) or Wide Area Network (WAN) utilizing TCP/IP communications protocol.
- C. Functions - The systems primary functions shall include
 - 1. Regulating access through doors, gates, turnstiles, and other entrance portals
 - 2. Credential cards and readers
 - 3. Credential creation and credential holder database and management
 - 4. Monitoring of field-installed devices
 - 5. Reporting
 - 6. Data-on-card functionality
- D. Third Party Devices - In addition to supporting the Manufacturer's own multi-card readers, the system shall support the following types of readers by utilization of an IP Bridge:
 - 1. Wiegand output devices including but not limited to:
 - a. Long Range Readers such as Tagmaster

2.03 SYSTEM SOFTWARE

- A. The ACS Host application software shall provide the interface between the cloud software, mobile app, IP-Bridges, IP based Reader-Controllers, electronic locksets, and must be able to report alarms, generate reports and provide all other system functions.
- B. The system shall provide a web-based User Interface using standard browsers such as Chrome, Firefox and Microsoft Edge. Mobile devices such as tablets and smart phones will be able to log in via the same such browsers and have a User Interface optimized for mobile experience, or they may use the mobile app.
- C. The system software license shall be licensed as follows:
 - 1. ACS Cloud Service
 - a. Provide software license(s) for the specified number of access points and users for 1 year, including access points with electronic locks specified under Division 08 – Door Hardware. Software license(s) to be assigned to the Owner upon completion of construction.
 - 1) Total software license fee for 1 year shall be included in bid. Renewal by Owner after first year will be required for continued software license and software usage.
- D. System Functions - The access control system software functions shall include the following:
 - 1. User/Credential Management
 - a. Number of users and credentials dependent upon license limitations.
 - b. User group functionality
 - c. Users configuration shall have the following attributes:
 - 1) First name, middle initial, and last name.
 - 2) User Image
 - 3) Alert email address for the User to receive Alert emails
 - 4) Ten (10) customizable User Defined Fields
 - 5) Web Access with customizable User Roles to define what the User can view and edit in the Client. Passwords for Web Access shall be forced to use strong passwords.
 - 6) Can reside in an unlimited number of User Groups.
 - 7) Can be associated with Custom Rules
 - d. When deactivating a User, the system shall deactivate all associated credentials with that User. Any credential can be deactivated without deactivating the associated User.
 - 2. Access Point Programming and Management
 - a. Provide a mobile app to add Access points to the software
 - b. Configurable door latch interval
 - c. Input enable/disable and configuration

- d. Number of Access Point Groups – Unlimited
 - e. Data-on-Card capability for Schlage Control locks
 - f. The Zentra software shall prepare and format the commands to be stored on the credential.
 - g. An enrollment reader shall be used to write the commands provided by the software onto the smart credential
- 3. Weekly Schedules
 - a. Number of Weekly Schedules is dependent on the type of device being used
 - b. Interval assignments - Any day of the week
- 4. Weekly Rules configurable based on type of device being used
- 5. Alarm and Event Logging - provide for logging of all system alarms and events chronologically including time and date stamp. Specific alarm conditions monitored shall be included but not limited to:
 - a. Door Unauthorized Open Alarm
 - b. Door Extended Open Alarm
 - c. Reader-Controller Tamper Alarm
 - d. Device Offline Alert
- 6. System Scheduling - provide for scheduling of events including:
 - a. Access Point or Access Point Group unlock for specified Schedule.
 - b. Access Point or Access Point Group unlock with specified Badge(s), Access Point(s) shall remain locked until an authorized Credential is read.
- 7. System Dashboards – Monitoring Attributes
 - a. Shall provide customizable Dashboards for Monitoring of the ACS. These Dashboards shall be fully customizable, able to filter on all events, able to filter on all devices where applicable and include the following:
 - 1) Ability to display non-wireless single Access Point status with the following:
 - a) Live update of door status including physical door status and all event history on devices connected in real-time.
 - b) Ability to Admit entry for the latch interval time
 - c) Ability to Admit, Unlock and Lockdown the Access Point
 - d) Display User images if available
 - 2) Ability to display multiple Access Points, up to twelve (12) in a single widget with the following:
 - a) Live update of door status
 - b) Ability to Admit entry for the latch interval time
 - c) Ability to Lock, Unlock and Lockdown the Access Point connected to the Reader Controllers
 - 3) Ability to display History in the system filtered to be filtered by Users, Groups and/or Access Points.
 - 4) Ability to add a single Admit widget for an Access Point to admit entry for the latch interval.

- 5) Ability to add a Lockdown widget to Lockdown a single Access Point, a Group of Access Points or All Access Points.
 - 6) Ability to show User profiles for a single Access Point or multiple Access Points. The User Profile shall show the event and Users image if applicable.
- b. Dashboards shall be able to be restricted by User Groups and/or Areas.
8. System Alerts – Alarm Attributes
 - a. System shall provide a dedicated page for monitoring of Alerts in the system. These alerts shall notify the User of the number of Alerts in the system and can easily configure email to notify Users.
 - b. Alerts shall queue in the system until they are Acknowledged and Cleared.
 - c. Alerts shall be able to be Disabled or set to Auto-Clear from the queue.
 - d. The types of Alerts available shall be:
 - 1) Unauthorized Open
 - 2) Extended Open
 - 3) Tamper
 - 4) AUX
 - 5) REX
 - 6) Credential Rejected
 - 7) Credential Expired
 - 8) Credential Over Limit
9. Reports
 - a. System shall provide both customizable ad hoc reporting and scheduled reports that can be emailed on a daily or weekly basis.
 - b. Reports shall be able to be saved as standard PDF or CSV files.
 - c. Reports shall be able to be filtered by attributes within the report.
 - d. The following reports should be included at a minimum:
 - 1) History
 - 2) Users
 - 3) Access Points
 - 4) Schedules
10. Custom Rules Engine
 - a. System shall provide a flexible Custom Rules Engine to trigger unique actions from various events in the system. The Engine shall allow for the use of multiple triggers in the system to configure these events. System triggers shall include but not be limited to:
 - 1) A User's Credential is Accepted or Rejected
 - 2) An Access Point has a specific Alert or any Alert
 - 3) The Access Point has disconnected
 - 4) During or not during a configured Schedule
 - 5) At an Access Point or Access Point Group
 - b. System Actions shall include but not be limited to:
 - 1) Email a User or User Group

- 2) Lockdown an Access Point or Access Point Group
- 3) Create an Alert in the system
- 4) Unlock an Access Point or Access Point Group
- 5) Disable a Credential

2.04 HARDWARE COMPONENTS

A. Field Devices and Functionality

1. Field equipment shall include IP based Reader-Controllers and IP-Bridges. Wireless electronic locksets shall also be utilized.
2. Data exchange between the ACS Cloud Host and the IP based Reader-Controllers and/or electronic locksets shall include down-line transmission of commands, software, and databases to IP based Reader-Controllers.
3. The up-line data exchange from the IP based Reader-Controller and/or electronic locksets to the ACS Cloud Host shall include status data such as status reports, and entry-control records.
4. For data-on-card functionality with electronic locksets, an RC series reader shall be provided for enrollment purposes.

B. Multi-technology IP Reader-Controller:

1. Manufacturer: Schlage
 - a. RC11 mullion mount
 - b. RC15 single gang mount
 - c. RCK15 single gang mount with keypad

C. Credentials: The wireless locks shall provide credential reader modules in the following configurations, as indicated in door hardware sets:

- a. 13.56 MHz contactless smart cards
 - 1) Secure section (multi-technology and smart card) compatibility: MIFARE Classic, MIFARE Plus, MIFARE DESFire
- b. Mobile Credential Model
 - 1) 2.4 GHz Bluetooth Low Energy Zentra mobile credential
2. Stand-alone Capability
 - a. 64,000 credentials
 - b. 5000 stored access events
 - c. 32 schedules
 - d. 32 access events (holiday scheduling)
3. Input/output
 - a. Inputs - Three configurable (Default usage - door sense, request for exit/auxiliary)
 - b. Outputs
 - 1) One solid state relay controlling the electric lock rated at 12vdc 600ma.
4. Communications Interface

- a. Ethernet, TCP/IP via RJ-45 connector.
 - b. Non-pollled asynchronous messaging.
 - 5. Security
 - a. TLS version 1.2 encryption
 - b. Tamper detection via accelerometer
 - c. Encrypted lock control with optional module
 - 6. Electrical
 - a. Power – 12 VDC, PoE, PoE+
 - b. Operating Current – 210-225mA peak
 - c. Auxiliary Power Output – 12 VDC @ 600mA
 - 7. User
 - a. LED Indicators (3) - reader status, network connection
 - b. Programming - Microcode flash upgradeable
 - c. Dual-mode reset button - Power-cycle reader and Reset-to-Factory defaults
 - 8. Physical and Environmental
 - a. Operating Temperature - -40° to +66° C
 - b. Humidity - 0 - 100%
 - c. Weather Resistance – Conformal Coated components for weather resistance
 - d. Certifications
 - 1) UL-294 V7 Compliant
 - 2) FCC 47 CFR Part 15
 - 3) IC Certification
 - 4) cUL Listed
 - 5) RED Directive
 - 6) CE Mark
 - 7) IP65
 - 8) REACH
 - 9) Bluetooth SIG
 - 10) RoHS 3
 - 9. Enclosure
 - a. Durable U/V stabilized, flame-retardant ABS
 - b. Form Factor: Wall mount and mullion mount
 - c. Dimensions:
 - 1) Mullion (5.94” x 1.77” x 1”)
 - 2) Wall mount (5.13” x 3.25” x 1”)
 - 10. Accessories
 - a. Provide pigtail cable to connect the reader controller to the locking device and other accessories around the door.
 - b. Provide Advanced Security Module at all reader controllers.
- D.* Wireless Electronic Locksets Manufacturer: Schlage Select NDEB below, as required for the project.

- a. NDEB Cylindrical lockset compatible with 1-5/8 to 2 inch (41-51mm) doors with a 2-3/4 inch backset (2-3/8 inch optional). Latch bolt shall be 1/2 inch (12mm) throw steel dead-latching. For fire rated double (pair) doors, an optional 3/4 inch (19mm) throw steel anti-friction deadlatch shall be provided. Levers shall be pressure cast zinc, in a design and plated finish to match the mechanical locksets specified in 087100 Door Hardware.
2. Lockset shall combine lock, credential reader, door position sensor, and request-to-exit switch in a single unit, with the ability to be set up and configured wirelessly with a connected smartphone or tablet.
3. Lockset shall provide an emergency key over-ride.
 - a. Coordinate cylinder and keying requirements with 087100 Door Hardware.
4. Lockset shall employ Wi-Fi communications for configuration and control of lock settings and users permitting remote view of audits and alerts, and configurable time period for updates.
5. Encryption Keys
 - a. Schlage default encryption key
 - b. Schlage custom encryption key service (SCEKS)
6. Credentials: The wireless locks shall provide credential reader modules in the following configurations, as indicated in door hardware sets:
 - a. 13.56 MHz contactless smart cards
 - 1) Secure section (multi-technology and smart card) compatibility: MIFARE Classic, MIFARE Plus, MIFARE DESFire
 - b. Mobile Credential Model
 - 1) 2.4 GHz Bluetooth Low Energy Zentra mobile credential
7. Records: Subject to the limitations of the access control system, the wireless locks shall possess sufficient storage capacity to support 5000 credentials and 2000 audits.
8. Performance: Credential verification time shall be less than or equal to one (1) second with smart cards and proximity cards.
9. Third-party compatibility:
 - a. The wireless locks shall employ an open architecture supportive of existing access control technologies and adaptable for future technologies.
 - b. Cloud-based and mobile apps shall be supported without the need for an integrated software partner.
10. Wireless communications
 - a. Wi-Fi
 - 1) Frequency: 2.4 GHz per IEEE802.11b/g/n
 - 2) Wireless security: IEEE 802.1x, WPA2, WPA, WEP
 - 3) Data Rate: 54 Mbps
 - b. Bluetooth Low Energy: Version 4.2

- c. Communications security: Transport Layer Security (TLS) v1.2
- d. Encryption: Advanced Encryption Standard (AES) 256 bit

11. Status Parameters and Indicators

- a. Via remote communication:
 - 1) REX
 - 2) door position
 - 3) interior cover tamper
 - 4) magnetic tamper
 - 5) lock/unlock status
 - 6) communication status
- b. Visual: LED (red, amber, green)
- c. Audible: Configurable and capable of being enabled or disabled C
- d. Power: 4 x 1.5V AA Batteries
- e. Wireless locks shall have the ability to communicate battery status and battery voltage level by means of an application on mobile device, at the door, and remotely by integrated software.
- f. Battery life: up to 2 years

12. Mechanical additional characteristics:

- a. Tamper-resistant screw: torx screw on inside battery cover.
- b. Switch inputs:
 - 1) door position switch
 - 2) interior cover tamper
 - 3) Request to Exit (REX)
- c. Available options:
 - 1) interior push button

13. Environmental

- a. Operating Temperature:
 - 1) Exterior: -31° to 151°F (-35° to 66°C)
 - 2) Interior: 32° to 120°F (0° to 49°C)
 - 3) Humidity: 0 - 100% non-condensing

- E. IP Bridge: The system shall have available an IP-Bridge module to interface existing analog or IP access control equipment to the access control system specified herein over the IP network.
 - 1. The IP Bridge shall have the capacity to interface to up to three (3) doors.
 - a. The IP Bridge shall have two (2) RJ-45 network connections, allowing connection of up to five (5) IP-Bridges to a single network switch port.
 - 2. The IP Bridge shall eliminate the need for a stand-alone door controller with a capacity of:
 - a. 20,000 cardholders
 - b. 5000 access events
 - c. 32 time zones per cardholder

3. The IP Bridge shall have the ability to be configured and accessed by the ACS Host software.
 - a. Information shall be exchanged on an asynchronous interrupt basis without the need for polling by the ACS Host software.
 - b. IP Bridge microcode updates shall be provided over the network, when necessary.
4. The IP Bridge shall support AES encryption.
5. The IP Bridge shall have the ability to function autonomously in a Stand-Alone mode should there be internet interruptions.
6. The IP Bridge shall support the following inputs (per access point):
 - a. Three (3) configurable sensor inputs for door sense, request to exit and auxiliary.
 - b. Wiegand card reader connection up to 1000 feet using 18/2 wire.
7. The IP Bridge shall support the following outputs (per access point):
 - a. Door Control relay (for electric lock, rated 2.0 A @ 30 VDC, form C)
 - b. Wiegand interface
 - 1) Power - 10 VDC regulated, regardless of input power to IP Bridge
 - 2) LED control
 - 3) beeper control
8. Auxiliary 12 VDC power
9. The IP Bridge shall have the capability to be powered by IEEE 802.3af POE, IEEE 802.3at POE+, or by 12 or 24 VDC
10. User
 - 1) Indicators
 - 2) Power
 - 3) Network Status
 - 4) Door Status (one indicator per door)
 - b. Programming - Microcode flash upgradeable
11. Dual-mode reset button - Power-cycle IP-Bridge and Reset-to-Factory defaults
12. Physical and Environmental
 - a. Operating Temperature - -40° to +50° C
 - b. Humidity - 0 - 90%, non-condensing
 - c. Enclosure
 - 1) PC/ABS Flame-retardant per UL94 V-0
 - 2) Form Factor - DIN Rail Mounting
 - 3) Dimensions – 6.3” x3.6” x 2.3”

2.05 SYSTEM PERFORMANCE

- A. The system shall use a single database for access-control and credential-creation functions.

- B. Distributed Processing - The system shall be a fully distributed processing system so that information, including time, date, valid codes, access levels, and similar data, is downloaded to the IP based Reader/Controllers so that each IP based Reader-Controller can make access-control decisions for that location. If communications to ACS Host Workstation is lost, all IP based Reader-Controllers shall automatically buffer event transactions until communications are restored, at which time buffered events shall automatically be uploaded to the ACS Host.
- C. System Response to Alarms
 - 1. Reader-Controllers network shall provide a system end-to-end response time of 3 second or less for every device connected to the system with typical network latency.
 - 2. Alarm and status changes shall be displayed within 3 seconds after receipt of data by the ACS Host with typical network latency.
 - 3. All graphics shall be displayed on the console monitor within 15 seconds of alarm receipt at the security console with typical network latency.
- D. Network
 - 1. The TCP/IP network interconnecting the system components shall provide automatic communication of status changes, commands, field-initiated interrupts, and other communications required for proper system operation.
 - 2. Network communication issues shall not require operator initiation or response, and the network shall return to normal after partial or total network interruption such as power loss or transient upset.
 - 3. Data Line Supervision - The system shall monitor the status of the data transmission lines with the use of heartbeat messages. The loss of the heartbeat messages will cause an alarm condition within the ACS host, and the reader-controller to switch to standalone mode.
- E. Environmental - The system shall be capable of withstanding the following environmental conditions without mechanical or electrical damage or degradation of operating capability:
 - 1. Exterior locations: Shall function as intended at the test voltage with its related equipment at ambient temperatures of minus 35 and plus 66 degrees C (minus 31 and plus 151 degrees F). The exposure to each of the temperatures is to be four hours or more.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine pathway elements intended for cables. Check raceways, cable trays, and other elements for compliance with space allocations, installation tolerances, hazards to cable installation, and other conditions affecting installation.
- B. Examine roughing-in for LAN and control cable conduit systems to PCs, IP based Reader-Controllers, Reader-controllers, non-IP readers, doors, and other cable-

connected devices to verify actual locations of conduit and back boxes before device installation.

- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Comply with recommendations in SIA CP-01.
- B. Comply with EIA/TIA-606, "Administration Standard for the Telecommunications Infrastructure of Commercial Buildings."
- C. Develop Project planning forms to suit Project. Fill in all data available from Project plans and specifications and publish as Project planning documents for review and approval.
 - 1. Record setup data for control station and workstations.
 - 2. For each Location, record setup of IP based Reader-Controller features and access requirements.
 - 3. Propose start and stop times for shifts and holidays, and match up permissions for doors.
 - 4. Set up groups, and list inputs and outputs for each IP based Reader-Controller.
 - 5. Prepare and install alarm graphic maps.
 - 6. Discuss badge layout options; design badges.
 - 7. Complete system diagnostics and operation verification.
 - 8. Prepare a specific plan for system testing, startup, and demonstration.
 - 9. Develop acceptance test concept and, on approval, develop specifics of the test.
- D. In meetings with Architect and Owner, present Project planning documents and review, adjust, and prepare final setup documents. Use final documents to set up system software.

3.03 CABLING

- A. Comply with NECA 1, "Good Workmanship in Electrical Contracting."
- B. Install cables and wiring according to requirements in Division 28 Section "Conductors and Cables for Electronic Safety and Security."
- C. Wiring Method: Install wiring in raceway except within consoles, cabinets, desks, and counters. Conceal raceway and wiring except in unfinished spaces.
- D. Wiring Method: Install LAN cables using techniques, practices, and methods that are consistent with Category 5e or Category 6 rating of components and that ensure Category 5e or Category 6 performance of completed and linked signal paths, end to end.
- E. Install cables without damaging conductors, shield, or jacket.

- F. Boxes and enclosures containing security system components or cabling, and which are easily accessible to employees or to the public, shall be provided with a lock. Junction boxes and small device enclosures below ceiling level and easily accessible to employees or the public shall be covered with a suitable cover plate and secured with tamperproof screws.

3.04 CABLE APPLICATION

- A. Comply with EIA/TIA-569, "Commercial Building Standard for Telecommunications Pathways and Spaces."
- B. Cable application and requirements shall be compliant with manufacturer's recommendations.

3.05 GROUNDING

- A. Comply with Division 26 Section "Grounding and Bonding for Electrical Systems."
- B. Comply with IEEE 1100, "Power and Grounding Sensitive Electronic Equipment."
- C. Ground cable shields, drain conductors, and equipment to eliminate shock hazard and to minimize ground loops, common-mode returns, noise pickup, cross talk, and other impairments.
- D. Bond shields and drain conductors to ground at only one point in each circuit.

3.06 IDENTIFICATION

- A. In addition to requirements in this Article, comply with applicable requirements in Division 26 Section "Identification for Electrical Systems" and with TIA/EIA-606.
- B. Label each terminal strip and screw terminal in each cabinet, rack, or panel.
 - 1. All wiring conductors connected to terminal strips shall be individually numbered, and each cable or wiring group being extended from a panel or cabinet to a building-mounted device shall be identified with the name and number of the device as shown.
 - 2. Each wire connected to building-mounted devices shall be numbered at the device and shall be consistent with the associated wire connected and numbered within the panel or cabinet

3.07 INSTALLATION

- A. Install all equipment in accordance with the manufacturer's installation manuals, wiring diagrams and recommendations.
- B. Install, configure and test software and databases for the complete and proper operation of systems involved. Assign software license to Owner.
- C. Testing: Upon completion of installation of system and after energized, demonstrate system compliance with intent.

3.08 FIELD QUALITY CONTROL

- A. Contractor shall inspect, test, and adjust components and equipment installation.
 - 1. Results shall be reported in writing.
- B. Contractor shall perform the following field tests and inspections and prepare test reports:
 - 1. LAN Cable Procedures - Inspect for physical damage and test each conductor signal path for continuity and shorts. Use Class 2, bidirectional, Category 5 tester. Test for faulty connectors, splices, and terminations. Test according to TIA/EIA-568-1, "Commercial Building Telecommunications Cabling Standards - Part 1 General Requirements." Link performance for UTP cables must comply with minimum criteria in TIA/EIA-568-B.
 - 2. Test each circuit and component of each system. Tests shall include, but are not limited to, measurements of power supply output under maximum load, signal loop resistance, and leakage to ground where applicable. System components with battery backup shall be operated on battery power for a period of not less than 10 percent of the calculated battery operating time. Provide special equipment and software if testing requires special or dedicated equipment.
 - 3. Operational Test - After installation of cables and connectors, demonstrate product capability and compliance with requirements. Test each signal path for end-to-end performance from each end of all pairs installed. Remove temporary connections when tests have been satisfactorily completed.
- C. Contractor shall remove and replace malfunctioning devices and circuits and retest as specified above.

3.09 STARTUP SERVICE

- A. Provide a fully commissioned system to ensure the entire system is operating as intended. This includes electronic locksets supplied under Division 08 being controlled by Zentra Living software.
- B. For keyless construction sites, the factory authorized integrator would be responsible for bringing doors online required for construction access, including programming of credentials, and removal of the construction credentials and programming once construction is complete.
- C. Include any necessary programming for fire-alarm panel tie-in and door release based upon the requirements and direction of the owner and/or AHJ.
- D. Coordinate with the Owner and input all users, user groups, and schedules.

3.10 SYSTEM ADMINISTRATOR TRAINING

- A. General Requirements
 - 1. The access control system installed in the multifamily building shall include comprehensive system administrator training to ensure proper operation and maintenance of the system.

2. The training program shall be conducted by a factory authorized integrator.
3. The training program shall cover all aspects of the access control system, including hardware components, software applications, user management, system configuration, and troubleshooting.
4. The system administrator training shall be provided to authorized personnel responsible for the administration and management of the access control system.

B. Training Content

1. The training program shall cover the following topics:
 - a. Overview of the access control system's architecture, components, and capabilities.
 - b. Detailed instruction on the installation and configuration of the access control hardware, including readers, controllers, and other related devices.
 - c. In-depth training on the access control system software, including user interface, database management, event logging, and reporting functions.
 - d. Proper management and assignment of user credentials, including cardholder enrollment, access levels, and user groups.
 - e. System troubleshooting techniques, including identification and resolution of common issues, error messages, and system malfunctions.
 - f. Emergency procedures, such as system lockdown, duress alarm activation, and integration with other security systems.
 - g. Best practices for system maintenance, including routine backups, firmware updates, and equipment inspection.
 - h. Compliance with applicable codes, regulations, and standards related to access control systems in multifamily buildings.

C. Training Delivery

1. The system administrator training shall be conducted through a combination of online modules, virtual classrooms, and practical exercises.
2. The factory authorized integrator shall provide online access training materials.
3. Online access shall be provided for the user to access any interactive presentations, videos, and hands-on simulations to enhance the learning experience.

D. Training Support

1. The factory authorized integrator shall provide ongoing technical support to the system administrators after the completion of the training program for length of service contract.
2. The access control system manufacturer shall provide a dedicated customer success team.
3. The manufacturer or factory authorized integrator shall maintain an up-to-date knowledge base and FAQs section on the online support portal to address common issues and provide troubleshooting guidance.

4. Regular training updates and webinars shall be made available to system administrators to keep them informed about the latest advancements and features of the access control system.
- E. Documentation
1. The authorized integrator shall provide comprehensive documentation, including user manuals, installation guides, and technical specifications, accessible through the online training portal.
 2. The documentation shall be available in digital format, ensuring easy access and searchability for the system administrators.
 3. The documentation shall include step-by-step instructions, diagrams, and troubleshooting guides to assist the system administrators in their day-to-day tasks.
 4. The manufacturer or authorized representative shall ensure that the online documentation remains up-to-date and reflects any changes or enhancements made to the access control system.

END OF SECTION



CONSTRUCTION DOCUMENTS

MARSHALL HEALTH FORMER STRAYER

BUILDING RENOVATIONS

SCOTT DEPOT, WV

FEBRUARY 22, 2024



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A0.02	BIDDING PLAN
C1.01	GENERAL NOTES
C1.02	OVERALL SITE AND UTILITY PLAN
C1.03	GENERATOR PAD SITE PLAN
C1.04	ADA RAMP PLAN
C1.05	ADA RAMP TYPICAL SECTIONS
C2.01	DETAILS
C2.02	DETAILS
C2.03	DETAILS
S1.01	STRUCTURAL WALL SECTION & DETAILS
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A4.04	ALTERNATE 1 ENLARGED PLAN VIEWS & INT. ELEVATIONS
A4.05	ALTERNATE 1 ENLARGED PLAN VIEWS & INT. ELEVATIONS

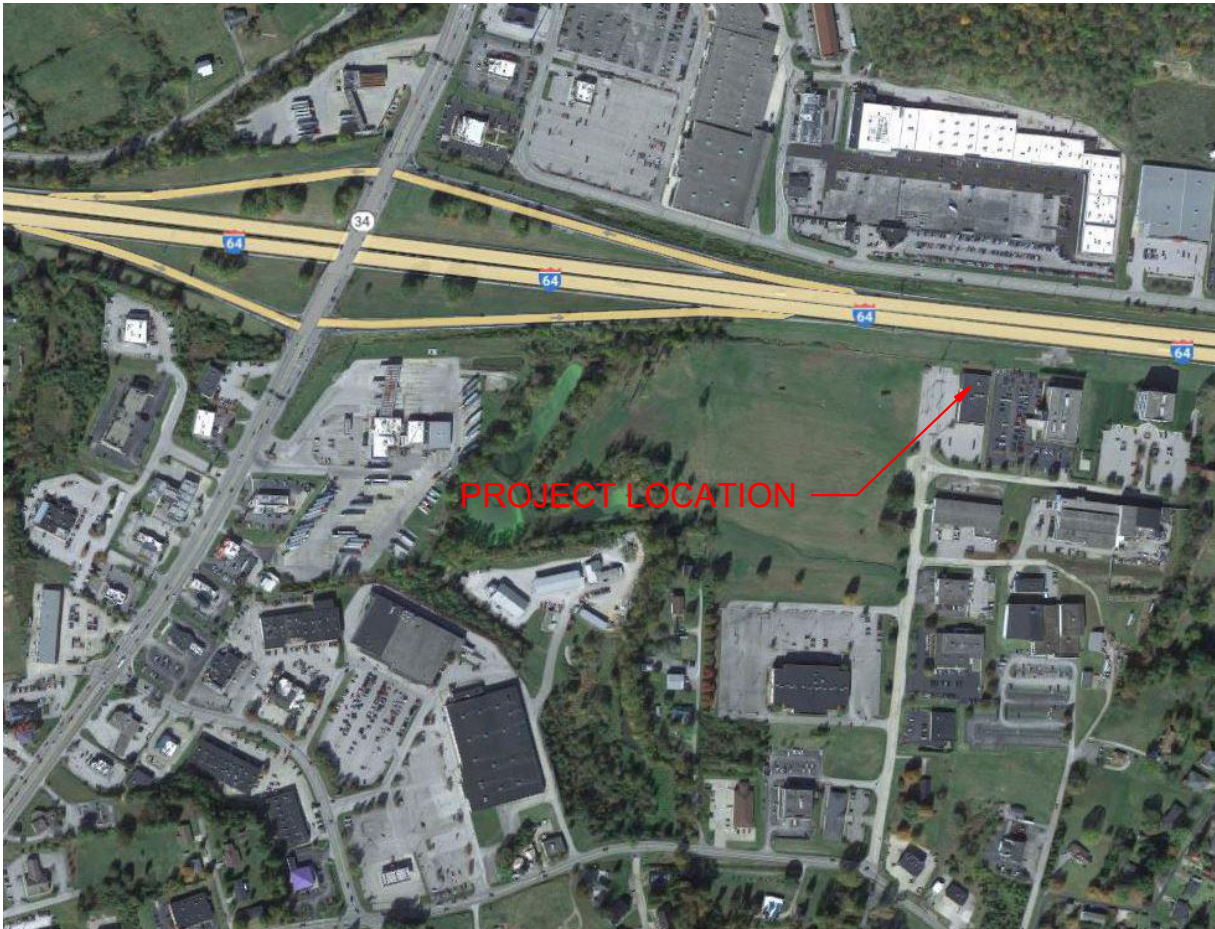
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A5.01	PARTITION TYPES
A5.02	DETAILS
A6.01	DOOR & WINDOW SCHEDULES & DETAILS
A7.01	FINISHED FLOOR SCHEDULE
A7.02	FINISHED FLOOR PLAN
A8.01	SIGNAGE
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P-002	PLUMBING BIDDING PLAN
P-101	PLUMBING DEMOLITION PLAN
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P-202	PLUMBING ROOF NEW WORK PLAN
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P-302	PLUMBING SCHEDULES
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E-203	ELECTRICAL POWER PLAN - MECHANICAL
E-204	ELECTRICAL SYSTEM PLAN
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E-403	ELECTRICAL DETAILS
E-404	ELECTRICAL DETAILS

PROJECT INFORMATION

PROJECT LOCATION: 100 CORPORATE CENTER DRIVE, SCOTT DEPOT, WV 25560

VICINITY MAP



PROJECT DATA

RENOVATION TO EXISTING HIGHER EDUCATION FACILITY INTO LABORATORY AND OUTPATIENT HEALTH CLINIC
IBC CONSTRUCTION TYPE: II-B
IBC OCCUPANCY TYPE: BUSINESS
NFPA CONSTRUCTION TYPE: II (000)
NFPA OCCUPANCY GROUP: BUSINESS
FULLY SPRINKLED: YES
FIRE ALARM SYSTEM: YES

TOTAL OCCUPANCY AREA: 14,399 SQ. FT.

GENERAL WV CODE COMPLIANCES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2021 NFPA 101 - LIFE SAFETY CODE
2020 NFPA 70 - NATIONAL ELECTRIC CODE
2017 ICC A117.1 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
ASHRAE 90.1-2013 ENERGY STANDARD FOR BUILDINGS

WV STATE FIRE CODE - ADOPTED AUG. 1, 2022
WV STATE BUILDING CODE - ADOPTED AUG 1, 2022

OWNER INFORMATION



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1600 MEDICAL CENTER DRIVE
HUNTINGTON, WV 25701
304.691.1600
CONTACT

CONSULTANT INFORMATION



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502.409.4062
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PGUFFEY@CMTA.COM
703.380.2117

THRASHER 1000 CORPORATE LANDING
CHARLESTON, WV 25311

PROJECT ARCHITECT:
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ARCHITECT WV #4644
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304.343.7601

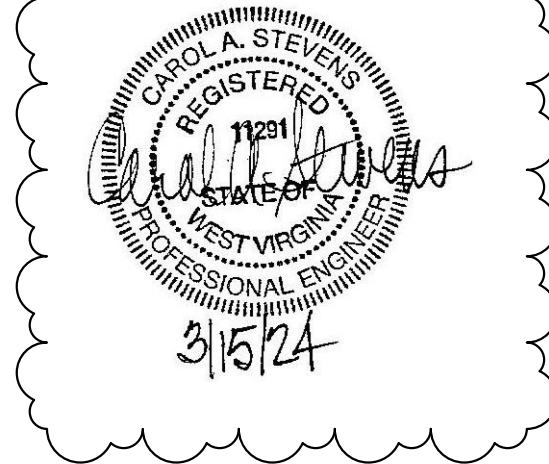
ARCHITECTURE
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CIVIL
PROJECT ENGINEER:
JEFF GOLA, PE
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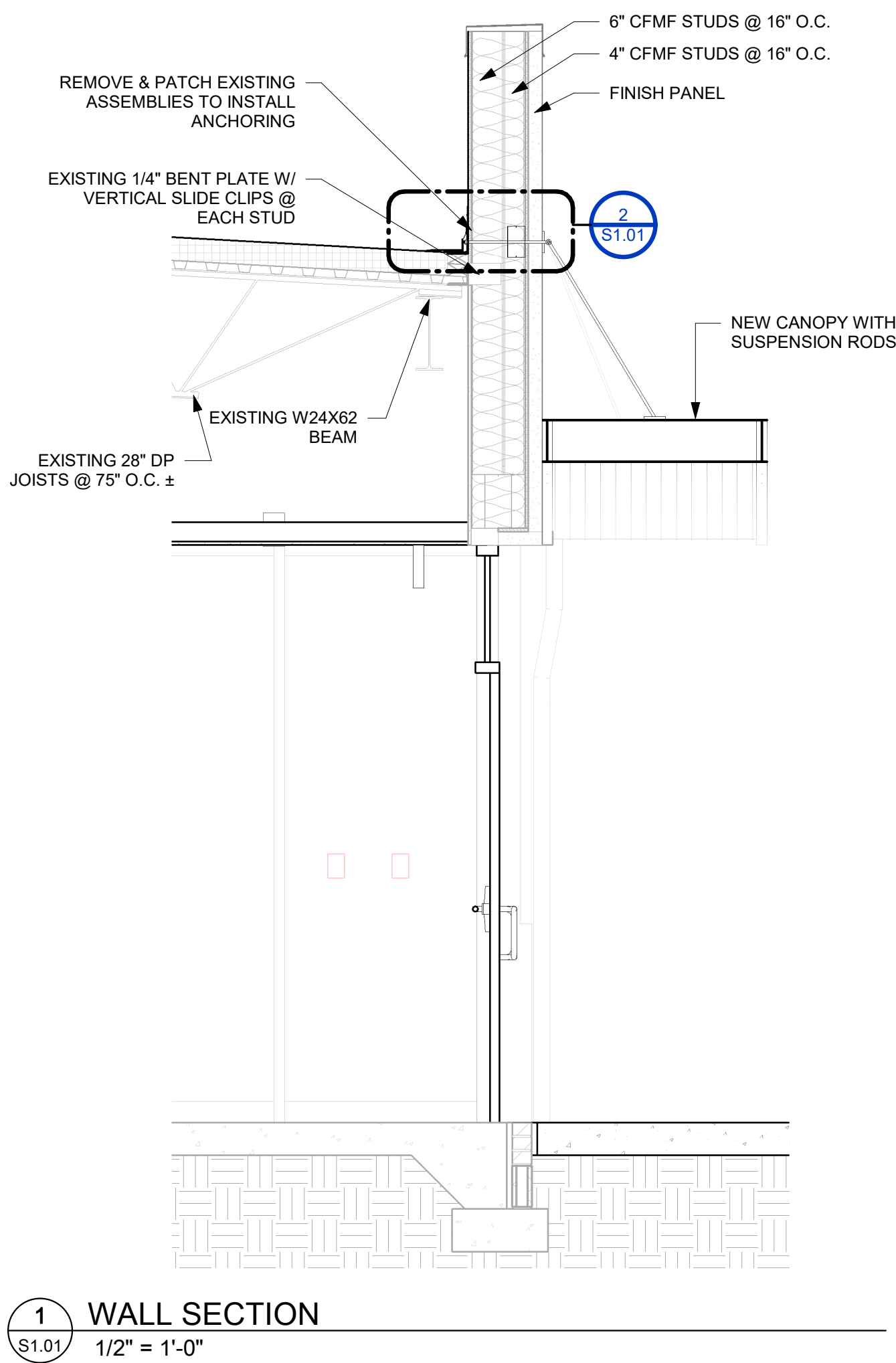


CAS STRUCTURAL ENGINEERING, INC
P.O. BOX 469
ALUM CREEK, WV 25003
304.756.2564
STRUCTURAL ENGINEER:
CAROL A. STEVENS
CALALANE@AOL.COM

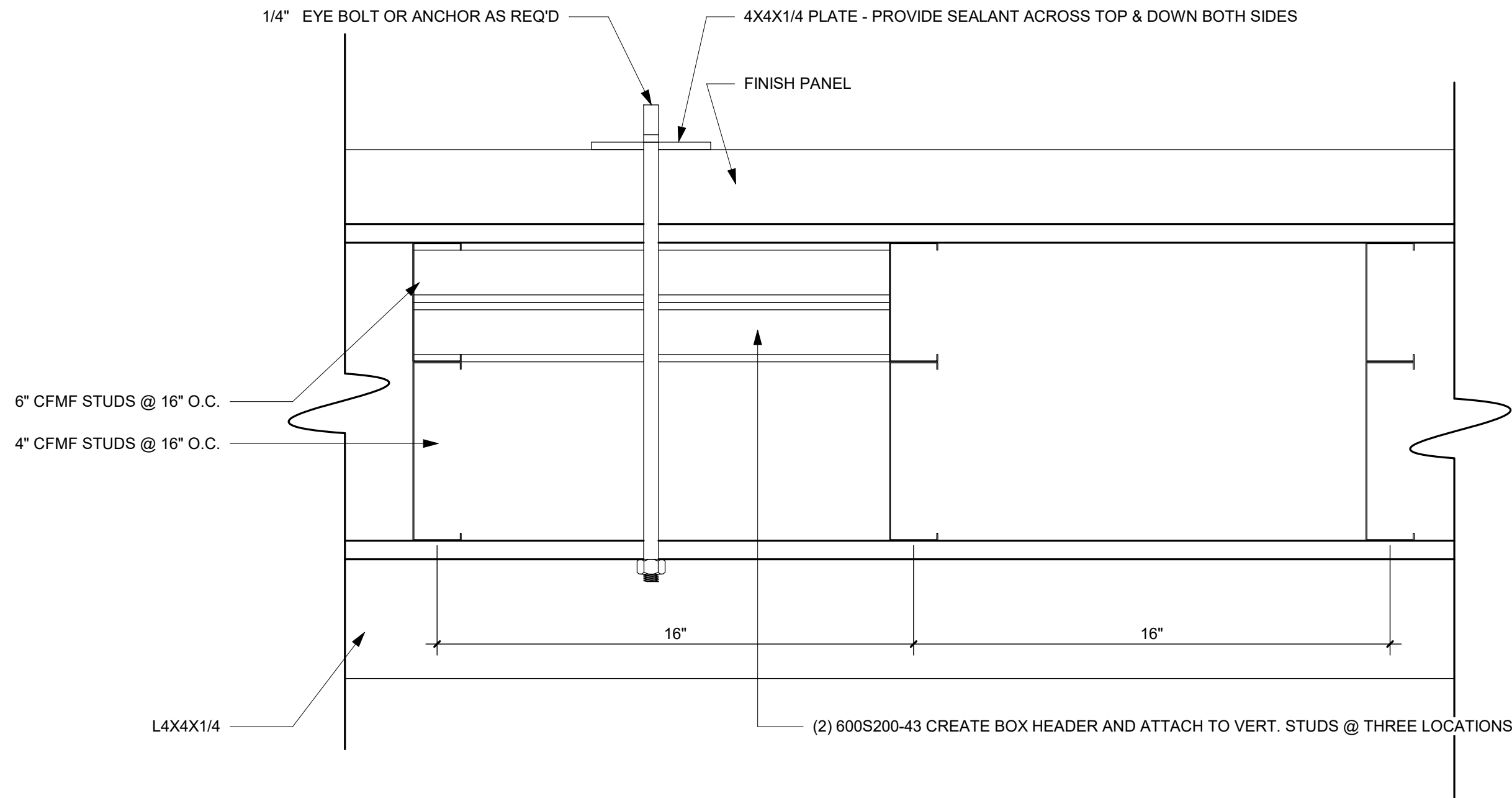
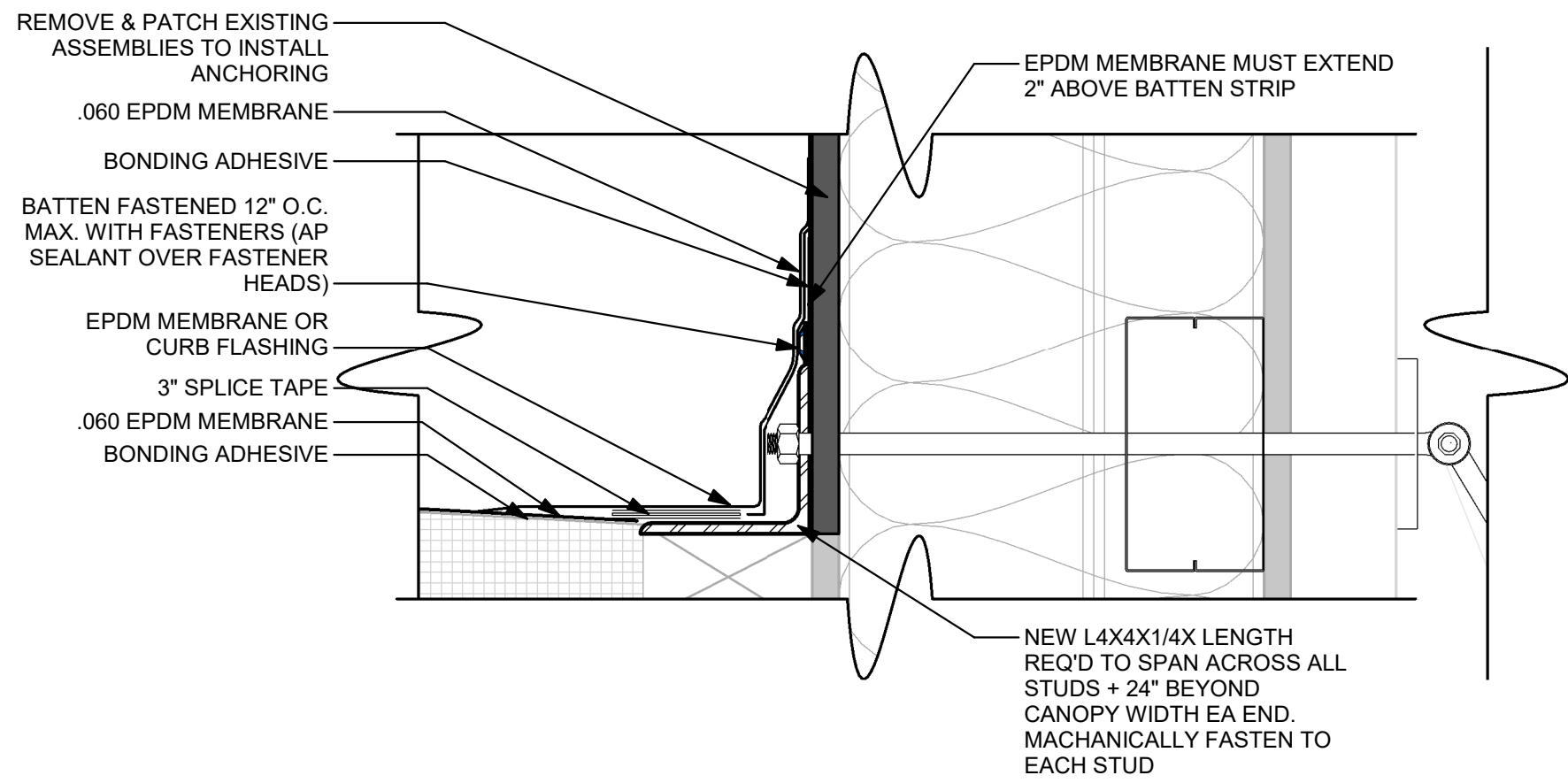
PROJECT No. T60-11110



☒ FOR AGENCY REVIEW DATE: 1/15/24 BY: CCA
☒ FOR BIDDING DATE: 2/22/24 BY: CCA



NOTE: CONTRACTOR TO NOTIFY ARCHITECT WHEN ANCHOR LOCATION IS OPENED FOR VERIFICATION OF EXISTING CONDITIONS.



MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS

MARSHALL HEALTH

SCOTT DEPOT, WV

FEBRUARY 22, 2024

CONSTRUCTION DOCUMENTS

DRAWN: ALB

DATE: 03/15/24

CHECKED: CAS

DATE: 03/15/24

PROJECT No.

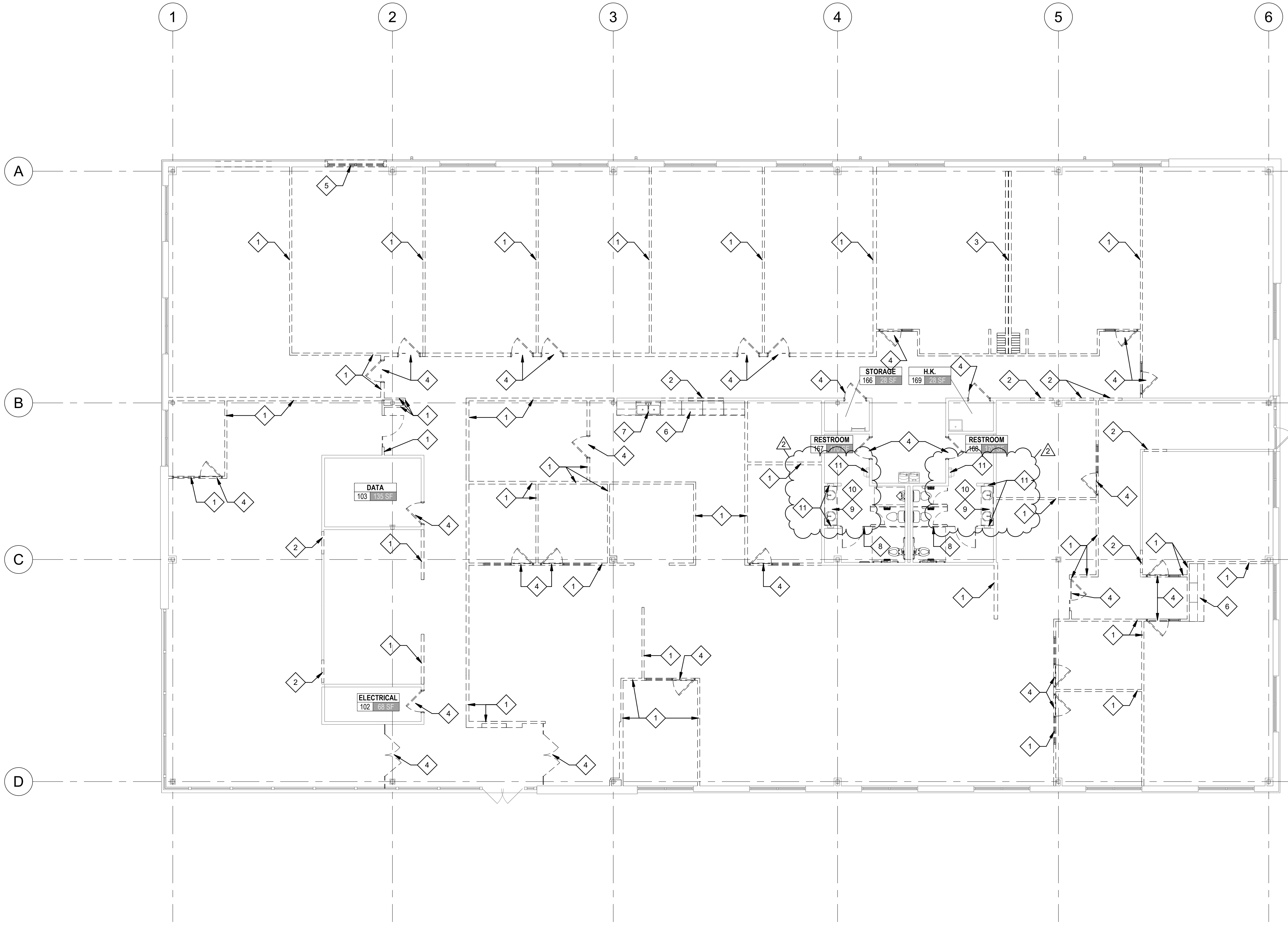
T60-11110

STRUCTURAL WALL
SECTION & DETAILS

SHEET No.

2

S1.01



1 FIRST FLOOR - EXISTING
D1.01 1/8" = 1'-0"

- GENERAL DEMOLITION NOTES:**
- ALL DEMOLITION WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.
 - THE DEMOLITION PLANS ARE INTENDED TO REASONABLY REPRESENT EXISTING CONDITIONS. ACTUAL CONDITIONS MAY DEVIATE FROM THAT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ACTUAL CONDITIONS AND COORDINATE THE DEMOLITION WORK WITH THE NEW WORK.
 - THE CONTRACTOR IS RESPONSIBLE FOR INSURING THE STRUCTURAL STABILITY OF THE EXISTING BUILDING IN THE AREAS INVOLVING NEW WORK OR FOR PROTECTING THE EXISTING BUILDING FROM DAMAGE DURING THE COURSE OF THE WORK.
 - PROTECT ALL ITEMS TO REMAIN. PATCH AND REPAIR ALL ITEMS AND FINISHES TO REMAIN IF DAMAGED. VOIDS OR DAMAGES TO EXISTING STRUCTURES, FINISHES, AND/OR SITE ITEMS TO REMAIN MUST BE REPAIRED TO MATCH OR EXCEED EXISTING CONSTRUCTION.
 - CONTRACTOR TO PROVIDE TEMPORARY ENCLOSURE FOR ALL EXTERIOR OPENINGS.
 - CONTRACTOR TO COORDINATE DEMOLITION WITH ALL OTHER SHEETS AND DOCUMENTS.
 - DIMENSIONS GIVEN AS REFERENCE ONLY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AS NECESSARY TO FULFILL THE INTENT/SCOPE OF THE WORK PRIOR TO COMMENCING THE WORK.
 - COORDINATE ALL EXISTING BUILDING AND SITE UTILITIES WITH ALL DOCUMENTS. DISRUPTION OF ANY UTILITY AND/OR SERVICE NOT ADDRESSED IN THE CONSTRUCTION DOCUMENTS MUST BE APPROVED BY THE ARCHITECT/OWNER BEFORE DISRUPTION.
 - CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED MATERIAL IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE LAWS.
 - CAP ALL UTILITIES AS REQUIRED INSIDE OF WALL OR BELOW FINISH FLOOR. CONFIRM WITH ARCHITECT.
 - ALL REMOVALS AND SALVAGE: SALVAGEABLE ITEMS SHALL FIRST BE OFFERED TO THE OWNER. SALVAGEABLE ITEMS THAT ARE NOT RETAINED BY THE OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR & SHALL BE LEGALLY DISPOSED OF OFF SITE.
 - REMOVE ONLY NON-LOAD BEARING CONSTRUCTION AND PARTITIONS. CONTRACTOR TO VERIFY AND CONTACT ARCHITECT IF REQUIRED FOR VERIFICATION. PRIOR TO REMOVAL, THAT NO STRUCTURAL COMPONENTS, I.E. BEARING WALLS, BEAMS, HEADERS, ETC., SUPPORTING FLOOR, ROOF OR CEILING JOISTS ARE DESIGNATED FOR REMOVAL. CONTACT THE ARCHITECT PRIOR TO REMOVAL OF ANY CONSTRUCTION IN QUESTION OR DEVIATING FROM THE DESIGN INTENT. CONTRACTOR'S NONCONT ACT OF ARCHITECT PRIOR TO REMOVAL OF ANY WORK INDICATES HIS COMPLETE UNDERSTANDING THAT NO LOAD BEARING OR STRUCTURAL WORK IS BEING ALTERED UNDER THIS CONTRACT.
 - THE CONTRACTOR SHALL PREPARE A DEMOLITION PLAN FOR REMOVAL, ON-SITE TEMPORARY PLACEMENT, AND FINAL DISPOSAL OF MATERIALS. PLAN SHALL ALSO INDICATE PROTECTIVE MEASURES AT EXISTING UTILITY SERVICES, SITE HARDSCAPE, AND LANDSCAPE ELEMENTS TO REMAIN.
 - DEMOLITION INCLUDES ALL COMPONENTS, MATERIALS, FINISHES, FIXTURES, AND EQUIPMENT TO LIMIT SHOWN IN DRAWINGS AS REQUIRED FOR NEW WORK. THE CONTRACTOR SHALL COORDINATE EXTENT OF DEMOLITION TO SCOPE OF NEW WORK. REFER TO DRAWINGS IN THIS SET FOR INCIDENTAL WORK NOT SHOWN IN DEMO PLAN.
 - STRUCTURAL COLUMNS, SLABS, ROOF STRUCTURE, AND EXTERIOR MASONRY WALLS SHOWN TO REMAIN SHALL BE PROTECTED FROM WEATHER OR EQUIPMENT DAMAGE DURING DEMOLITION PROCESSES. THE CONTRACTOR SHALL PROVIDE SHORING AND BRACING AS REQUIRED TO ENSURE NO STRUCTURAL ELEMENTS ARE OVERLOADED.
 - THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF ACCUMULATIONS OF WASTE MATERIAL AND DEBRIS CAUSED BY DEMOLITION OPERATIONS AT ALL TIMES. CONTROL SPREAD OF DUST TO THE SURROUNDING AREAS. DO NOT STOCKPILE DEMOLISHED MATERIALS ON SITE UNLESS IN PROPER WASTE CONTAINERS.
 - ALL DEMO WORK IS TO BE COORDINATED WITH MEP, INCLUDING ALL PIPING, WORK, CONTROLS, AND FIXTURES AND EQUIPMENT TO REMAIN FOR FLOORS, WALLS, AND CEILING SPACES.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR EXISTING CEILING, MECHANICAL EQUIPMENT, ELECTRICAL, AND PLUMBING FOR NEW WORK. SEE NEW FLOOR PLAN AND REFLECTED CEILING PLAN.
 - UNLESS NOTED OTHERWISE, ALL DASHED WALLS AND DOORS IN THE PROJECT WORK AREA REPRESENT EXISTING CONSTRUCTION TO BE REMOVED OR DEMOLISHED.
 - REMOVE ALL FLOORING IN PROJECT WORK AREA. PREPARE AREA FOR NEW FLOORING. SEE NEW FIRST FLOOR PLAN.
 - REMOVE ALL WALLCOVERINGS IN PROJECT. EXISTING WALLS TO REMAIN SHALL BE PREPARED TO BE PAINTED.
 - REMOVE ALL CEILING, LIGHTING, CEILING-MOUNTED MECHANICAL EQUIPMENT, AND CEILING-MOUNTED ELECTRICAL EQUIPMENT IN PROJECT. SEE REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION. BOUNDARIES ARE DISPLAYED FOR BASE BID, ALTERNATE #1, AND ALTERNATE #2. CONTRACTOR SHALL PERFORM SCOPE OF WORK AS DEFINED BY THE BIDDING PLAN. SEE A0.02.
 - DEMOLITION SCOPE SHALL INCLUDE SELECTIVE CUTTING, TRENCHING AND REPOURING OF CONCRETE FLOORS FOR NEW PLUMBING WORK. SEE PLUMBING DRAWINGS.
 - REFER TO MEP PLANS FOR ROOF DEMOLITION AND REPAIR REQUIREMENTS.
 - REFER TO P2.01 FOR UNDER LAB PLUMBING REQUIRE W/ CONC. FLOOR CUTTING AND PATCHING.

DEMOLITION NOTES	
NOTE #	DESCRIPTION
1	REMOVE EXISTING INTERIOR PARTITION FULL HEIGHT.
2	REMOVE PORTION OF EXISTING WALL FOR NEW DOOR OPENING.
3	REMOVE THE OPERABLE PARTITION. SALVAGE AND RETURN TO OWNER.
4	REMOVE EXISTING DOOR AND FRAME.
5	REMOVE EXISTING WINDOW AND FRAME. REMOVE PORTION OF EXISTING WALL FOR NEW STOREFRONT OPENING. SEE FLOOR PLAN. SCOPE OF WORK IN ALTERNATE #1
6	REMOVE EXISTING CASEWORK AND ASSOCIATED ACCESSORIES.
7	REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED ACCESSORIES.
8	REMOVE EXISTING TOILET PARTITIONS AND DOORS. PREPARE AREA FOR NEW WORK.
9	REMOVE EXISTING COUNTERTOPS AND SINKS. PREPARE AREA FOR NEW WORK.
10	REMOVE ALL WALL TILE IN BATHROOM. PREPARE AREA FOR NEW WORK.
11	EXISTING RECESSED WASTE RECEPTACLES AND RECESSED AND ELECTRICAL PAPER TOWEL DISPENSERS TO REMAIN.

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STATE OF WEST VIRGINIA
CASEY C. ARTHUR
ARCHITECT
NO. 4644
2/22/2024

NO.	BY	DATE	DESCRIPTION
1	ALB	03/15/24	ADDENDUM 2
2	ALB		

**MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS**

MARSHALL HEALTH
SCOTT DEPOT, WV
FEBRUARY 22, 2024
CONSTRUCTION DOCUMENTS

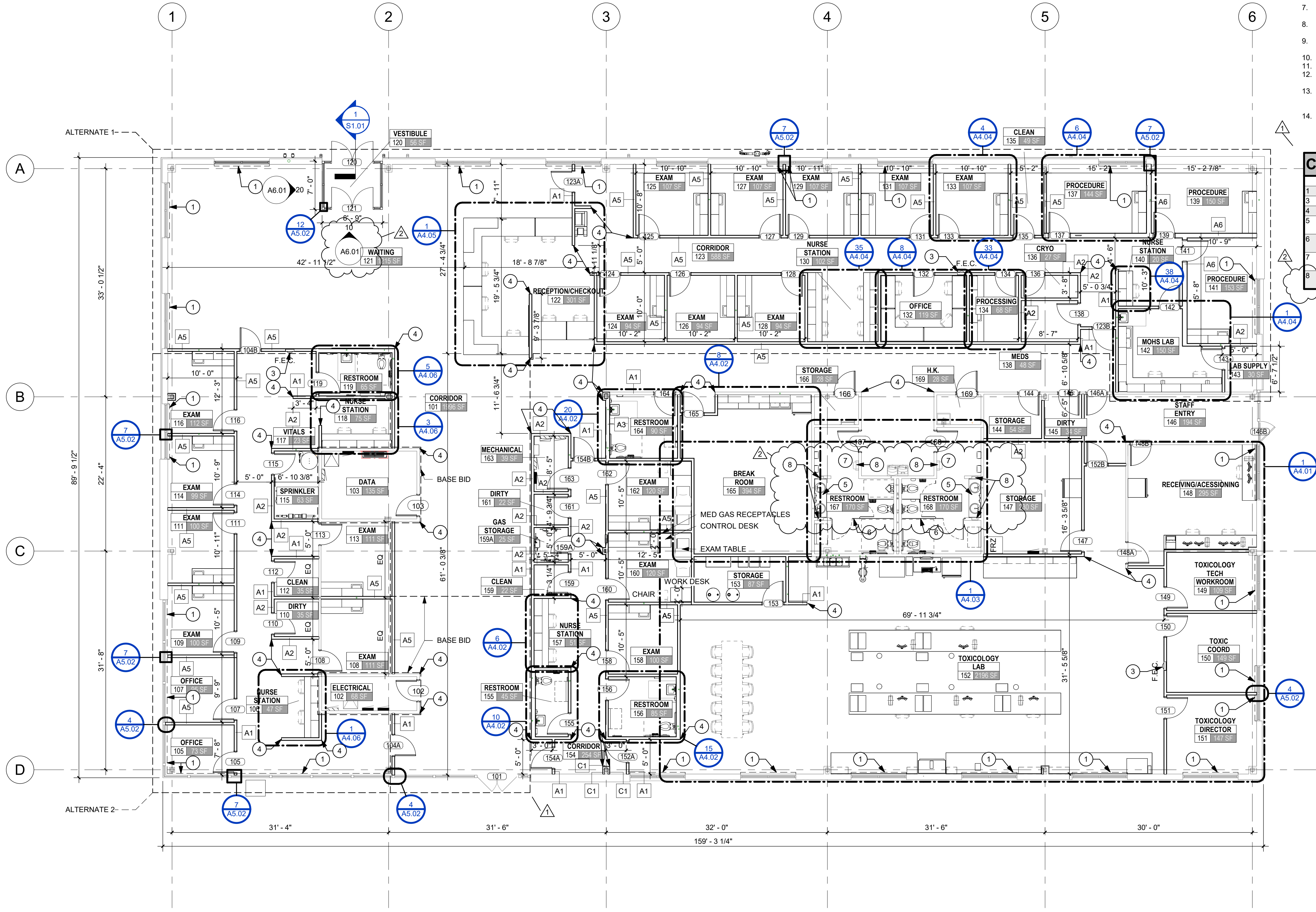
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PROJECT No. T60-11110

DEMOLITION FLOOR PLAN

SHEET No.

D1.01



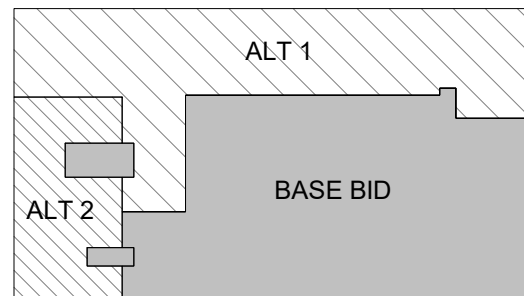
1 FIRST FLOOR
A1.01 1/8" = 1'-0"

GENERAL NOTES:

1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY ON SITE ACTIVITIES.
2. CONTRACTOR TO COORDINATE OVERALL DIMENSIONS SHOWN WITH OTHER PLANS.
3. DIMENSIONS ARE TO FACE OF STUD, OR CENTER OF STUD.
4. INSTALL SUPPORT BLOCKING IN NEW WALLS TO RECEIVE WALL MOUNTED ITEMS. WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED.
5. PREPARE ALL NEW AND EXISTING WALL SURFACES TO RECEIVE SCHEDULED FINISH.
6. FINISH FLOOR MATERIAL TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR.
7. SLOPE FLOORS TO FLOOR DRAINS. REFERENCE PLUMBING PLANS FOR LOCATION.
8. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND INTERIOR DRAWINGS FOR ADDITIONAL INFORMATION.
9. ALL PARTITION SURFACES WITH PLUMBING EQUIPMENT ADJACENT SHALL RECEIVE MOISTURE-RESISTANT GYPSUM BOARD.
10. FOR PARTITION TYPE INFORMATION REFER TO A5 SERIES DRAWINGS.
11. PROVIDE PIPE PROTECTORS AT ALL EXPOSED SUPPLY AND WATER PIPING.
12. THE HINGE SIDE OF INTERIOR DOOR FRAMES ARE LOCATED 2" FROM FACE OF ADJACENT STEEL STUD WALLS UNLESS OTHERWISE NOTED.
13. BOUNDARIES ARE DISPLAYED FOR BASE BID, ALTERNATE #1, AND ALTERNATE #2. CONTRACTOR SHALL PERFORM SCOPE OF WORK AS DEFINED BY THE BIDDING PLAN. SEE A0.02.
14. CHAIRS AND TABLE ARE SHOWN FOR REFERENCE ONLY. OWNER SHALL PROVIDE FURNITURE.

CONSTRUCTION NOTES

NOTE #	DESCRIPTION
1	ROLLER SHADES
3	FIRE EXTINGUISHER AND CABINETS
4	CORNER GUARD - SEE SPECIFICATION
5	NEW COUNTERTOP AND SINKS MATCH DIMENSIONS OF PREVIOUS COUNTERTOP. SEE ELEVATION 3 & 9/A4.03.
6	NEW TOILET PARTITIONS AND DOORS. MATCH DIMENSIONS OF PREVIOUS DESIGN.
7	INSTALL NEW WALL FINISHES IN BATHROOM. SEE TYPICAL FINISH ELEVATION 6/A7.01.
8	EXISTING RECESSED WASTE RECEPTACLES AND RECESSED AND ELECTRICAL PAPER TOWEL DISPENSERS TO REMAIN.



NO.	BY	DATE	DESCRIPTION
1	ALB	03/12/24	ADDENDUM 1
2	ALB	03/15/24	ADDENDUM 2

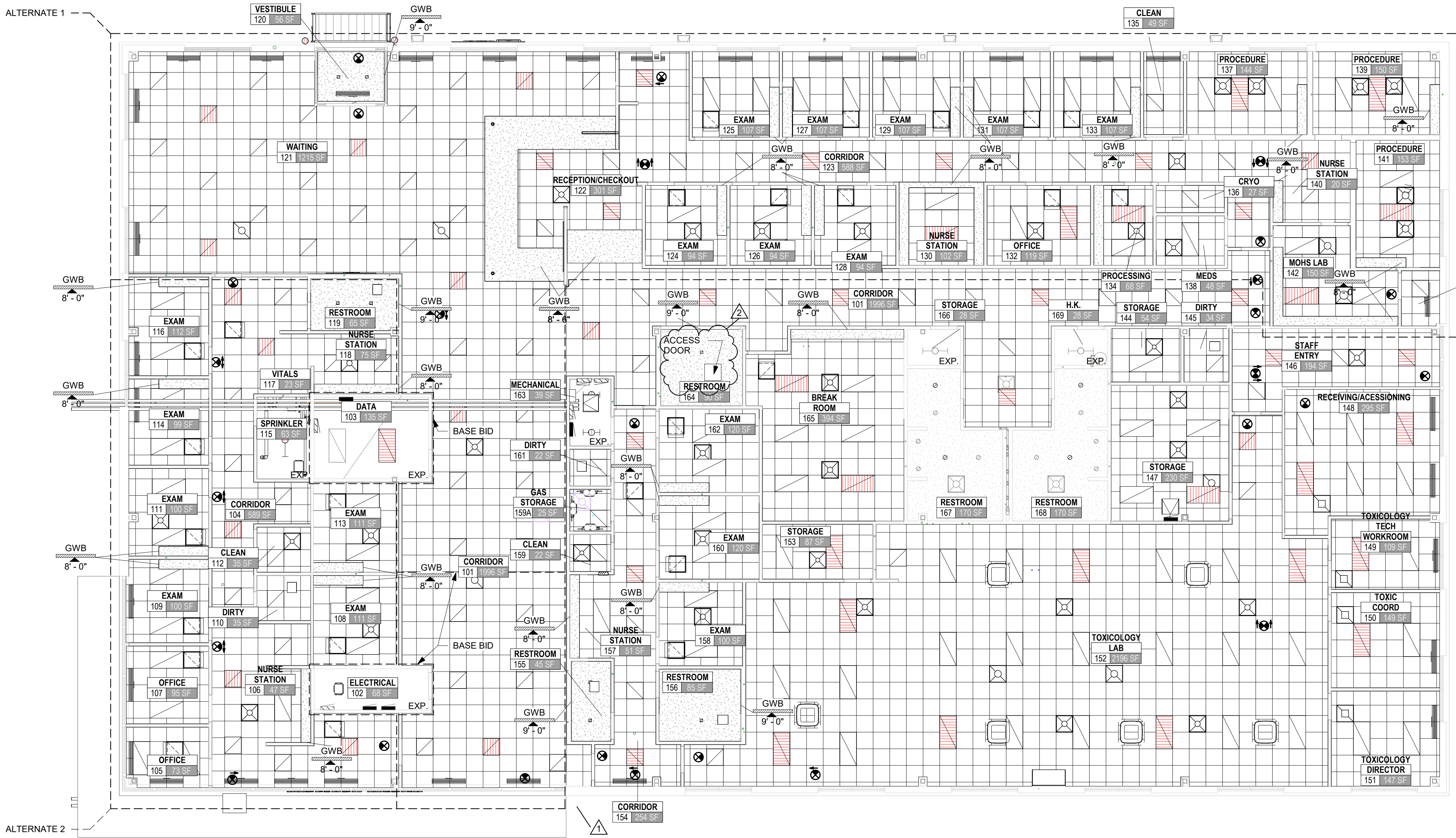
**MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS**
MARSHALL HEALTH
SCOTT DEPOT, WV
FEBRUARY 22, 2024
CONSTRUCTION DOCUMENTS

DRAWN: ALB DATE: 02/22/24
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NEW FLOOR PLAN

SHEET No.

A1.01



1 FIRST FLOOR
1/8" = 1'-0"

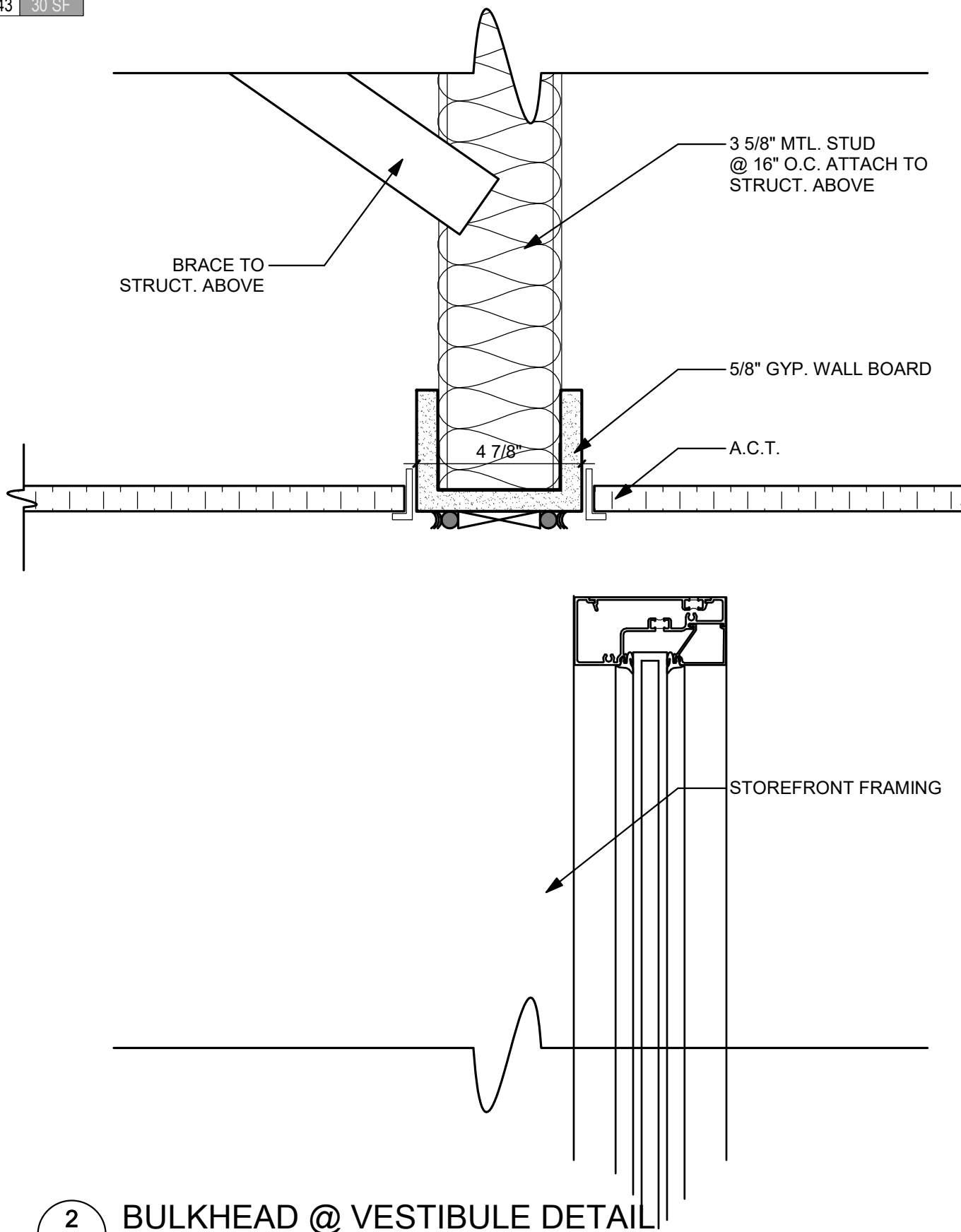
REFLECTED CEILING PLAN GENERAL NOTES:

- ALL CEILINGS SHALL BE 9'-0" A.F.F. UNLESS NOTED OTHERWISE.
- CEILING HEIGHT INDICATED ON REFLECTED CEILING PLAN ARE FROM TOP OF FINISHED FLOOR TO BOTTOM FACE OF CEILING, BULKHEAD, SOFFIT, HEADER, ETC.
- REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL COORDINATE NEW CEILING INSTALLATION WITH EXISTING STRUCTURE AND NEW MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION EQUIPMENT; IF CONFLICTS OCCUR, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO COMPLETING INSTALLATION.
- CEILINGS AND EQUIPMENT SHALL BE POSITIVELY ATTACHED TO STRUCTURE. NO CEILING EQUIPMENT SHALL BE SUPPORTED FROM PLUMBING OR OTHER EQUIPMENT.
- CONTRACTOR SHALL HAVE AUTHORITIES HAVING JURISDICTION PERFORM ALL REQUIRED FIELD INSPECTIONS ON BUILDING SYSTEMS PRIOR TO COMPLETING INSTALLATION OF FINISH CEILING.
- BOUNDARIES ARE DISPLAYED FOR BASE BID, ALTERNATE #1, AND ALTERNATE #2. CONTRACTOR SHALL PERFORM SCOPE OF WORK AS DEFINED BY THE BIDDING PLAN. SEE A0.02.

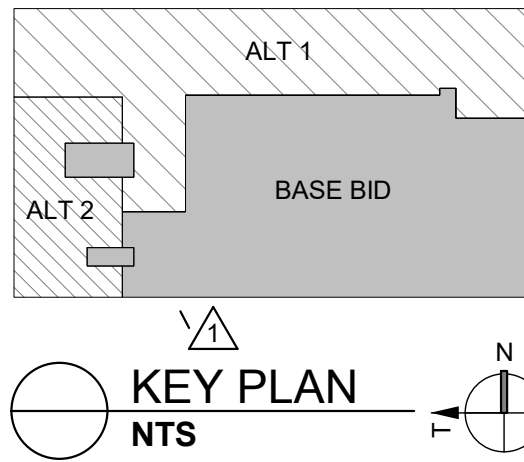
REFLECTED CEILING PLAN LEGEND

NOTE: CONTRACTOR TO COORDINATE RCP BETWEEN ARCHITECTURAL AND MEP DRAWINGS

- | | |
|-------------------------------|----------------------|
| 2'x2' LAY-IN CEILING TILE | GYPSUM BOARD CEILING |
| 2'x4' LAY-IN CEILING TILE | DIFFUSERS |
| 2'x4' LIGHT FIXTURE | RETURN GRILL |
| 2'x2' LIGHT FIXTURE | EXHAUST GRILL |
| 2'x4' EMERGENCY LIGHT FIXTURE | AIR CONDITIONER |
| 2'x2' EMERGENCY LIGHT FIXTURE | BULK HEAD |
| 1'x4' LIGHT FIXTURE | WALLS BELOW |
| EXIT SIGN | RECESSED DOWN LIGHT |
| SMOKE DETECTOR | O.T.A. OPEN TO ABOVE |
| | SPEAKER |



2 BULKHEAD @ VESTIBULE DETAIL
3" = 1'-0"



NO.	BY	DATE	DESCRIPTION
1	ALB	03/15/24	ADDENDUM 1
2	ALB	03/15/24	ADDENDUM 2

**MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS**
MARSHALL HEALTH
SCOTT DEPOT, WV
FEBRUARY 22, 2024
CONSTRUCTION DOCUMENTS

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PROJECT No. T60-11110
RCP

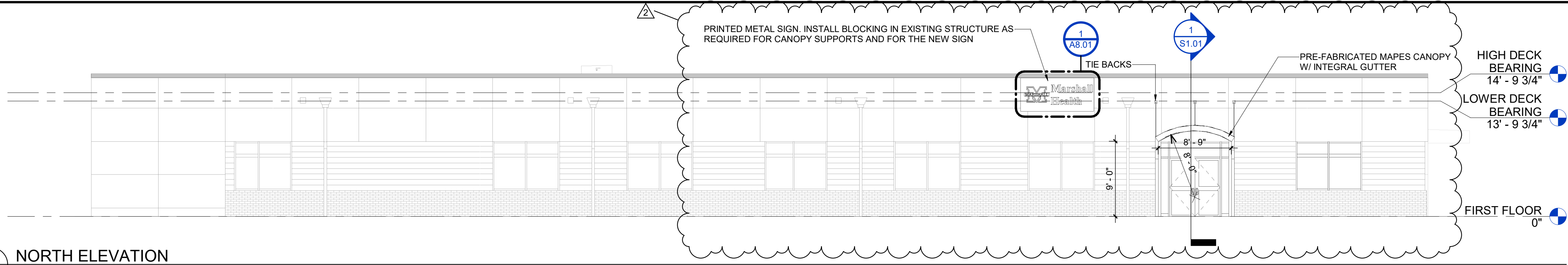
SHEET No.

USER: ALB

LAYOUT TAB - BUILDING ELEVATIONS
CAD FILE: C:\Users\alassen\OneDrive - Thrasher Engineering Group\Documents\Marshall Health Strayer Building Other Chris Renovations_Construction\alassen122624.rvt

PLOT DATE/TIME: 3/15/2024 5:07:08 PM

1 NORTH ELEVATION
1/8" = 1'-0"



GENERAL ELEVATION NOTES

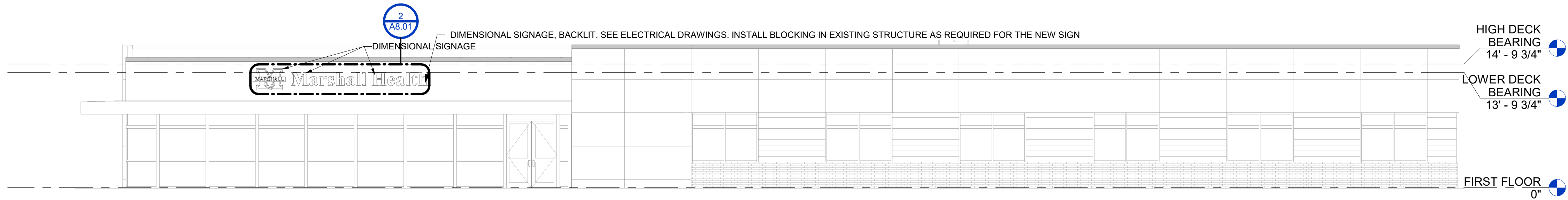
- OWNER SHALL FINALIZE AND APPROVE SIGNAGE PRIOR TO CONTRACTOR ORDERING.
- SIGNAGE AND ENTRANCE CANOPY SHALL BE INCLUDED IN ALTERNATE #1 SCOPE OF WORK.

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



NO.	BY	DATE	DESCRIPTION
2	ALB	03/15/24	ADDENDUM 2

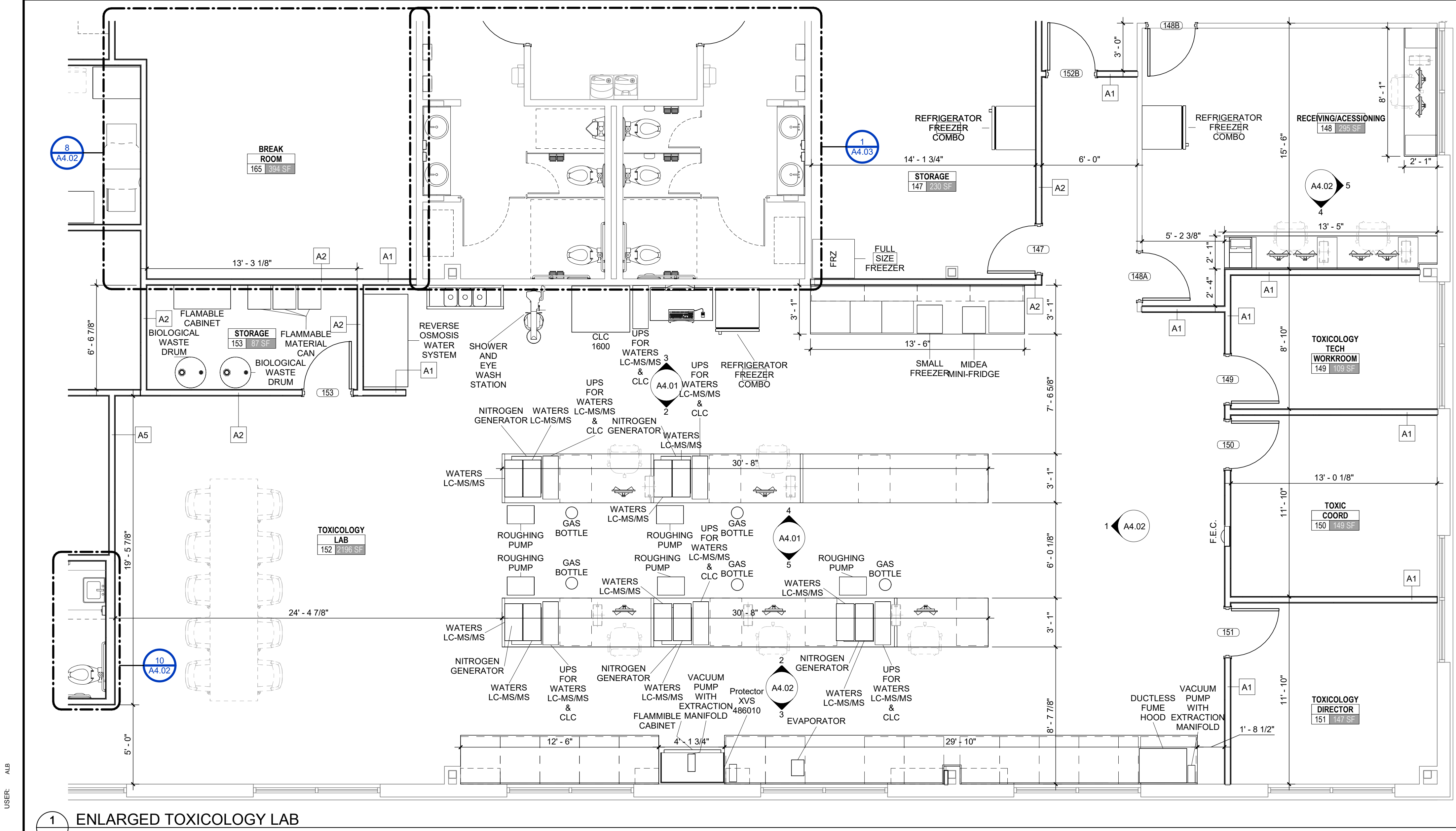
**MARSHALL HEALTH FORMER
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BUILDING ELEVATIONS

SHEET No.

A2.01



LABORATORY EQUIPMENT		
Manufacturer	Description	Count
	BIOLOGICAL WASTE DRUM	2
	CLC WORKSTATION	1
ACCUCOLD	SMALL FREEZER	1
AIRGAS	GAS BOTTLE	5
AIRSCIENCE	DUCTLESS FUME HOOD	1
AMERIWATER	REVERSE OSMOSIS WATER SYSTEM	1
APRICOT	EVAPORATOR	1
BIMsmith Generics	SINK	1
BRADLEY CORPORATION	SHOWER AND EYE WASH STATION	1
CAROLINA LIQUID CHEMISTRIES	CLC 1600	1
LABONOCO	Protector XVS 486010	1
MIDEA	MIDEA MINI-FRIDGE	1
PEAK	NITROGEN GENERATOR	5
POWERVAR	UPS FOR WATERS LC-MS/MS & CLC	6
ROBINAIR	VACUUM PUMP WITH EXTRACTION MANIFOLD	3
SOGEVAC	ROUGHING PUMP	5
SOUTHWEST SOLUTIONS GROUP_DUR	FLAMMABLE CABINET	1
SOUTHWEST SOLUTIONS GROUP_DUR	FLAMMABLE MATERIAL CAN	3
SOUTHWEST SOLUTIONS GROUP_DUR	FLAMMABLE CABINET	1
WATERS	WATERS LC-MS/MS	10

- LABORATORY EQUIPMENT GENERAL NOTES:**
- ALL LABORATORY EQUIPMENT SHALL BE RELOCATED AND INSTALLED BY OWNER AT PROJECT SITE. NO LABORATORY EQUIPMENT SHALL BE PROVIDED IN THE CONTRACT.
 - CONTRACTOR SHALL COORDINATE BUILDING SYSTEMS WITH LABORATORY EQUIPMENT LOCATIONS.
 - CONTRACTOR SHALL FURNISH ALL LABORATORY CASEWORK AND COUNTERTOPS DISPLAYED IN DRAWINGS.
 - CHAIRS AND TABLE ARE SHOWN FOR REFERENCE ONLY. OWNER SHALL PROVIDE FURNITURE.

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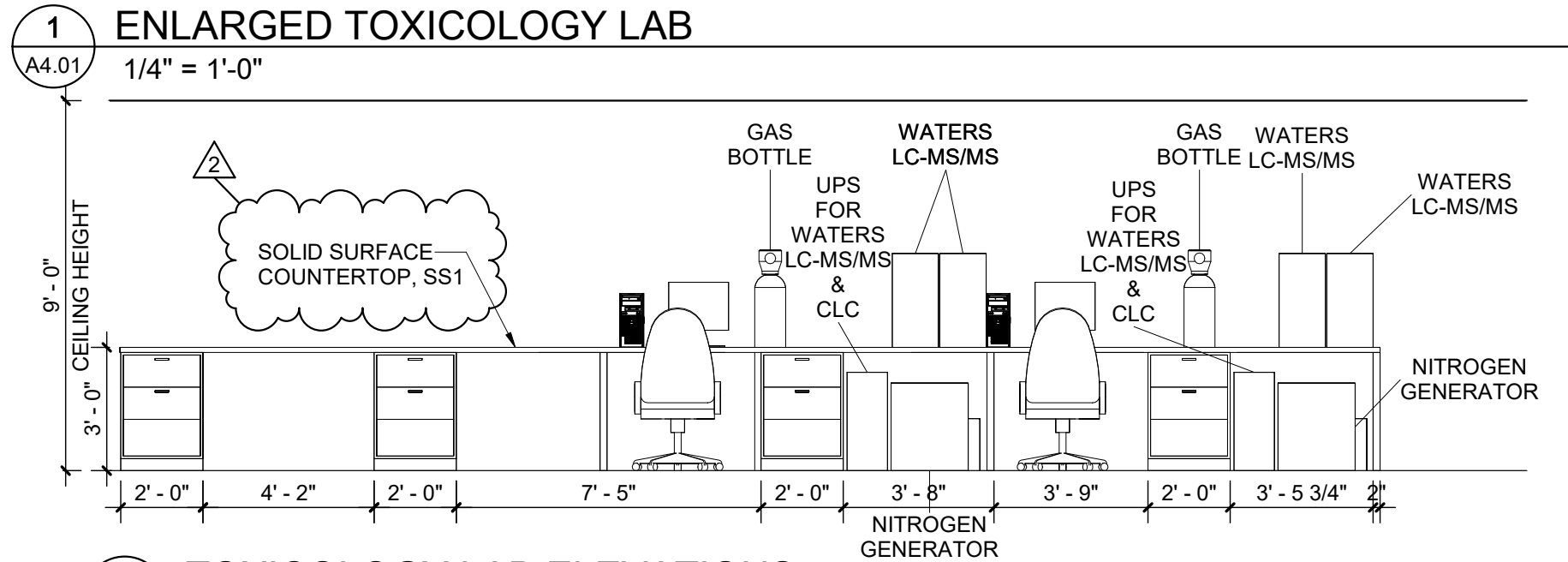
P (304) 624-4108
F (304) 624-7831

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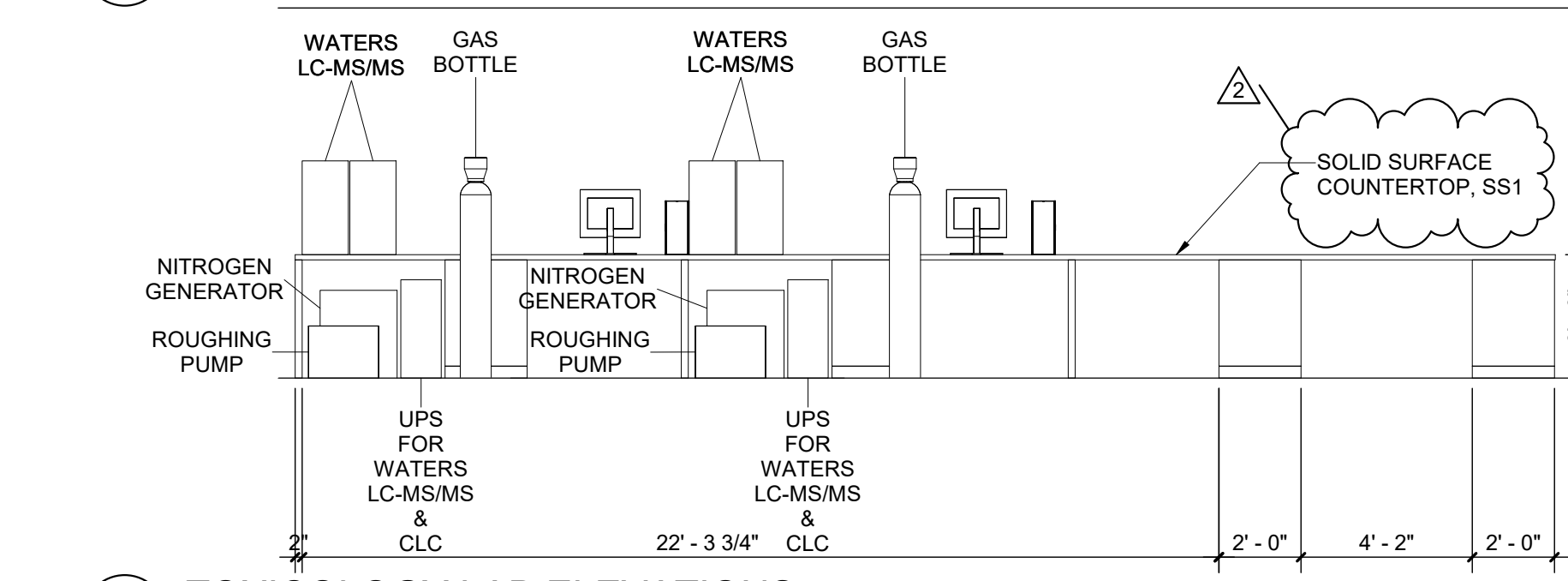
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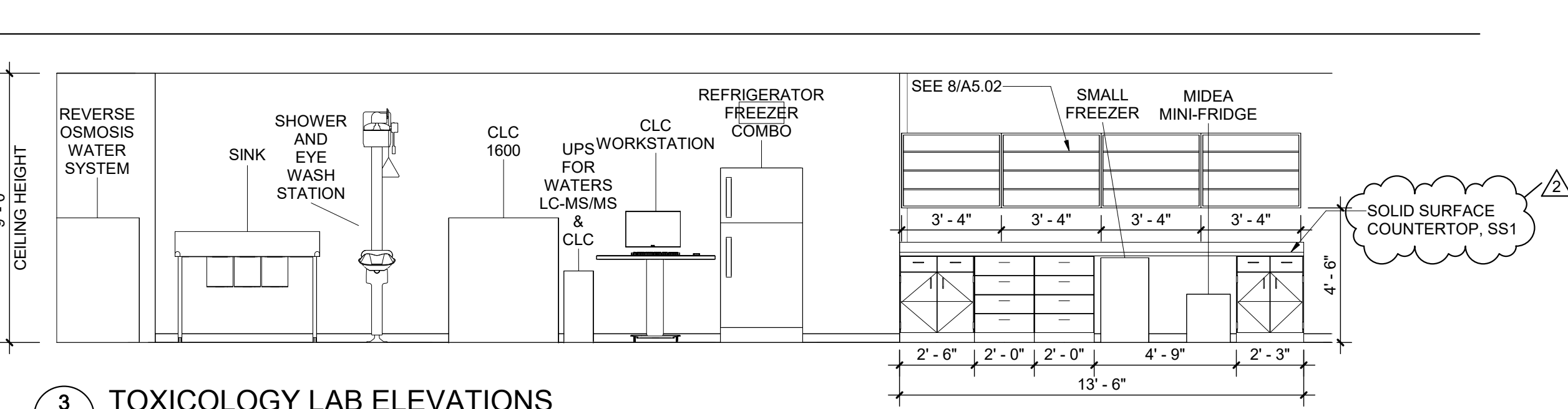
NO.	BY	DATE	DESCRIPTION
1	ALB	03/15/24	ADDENDUM 2
2			



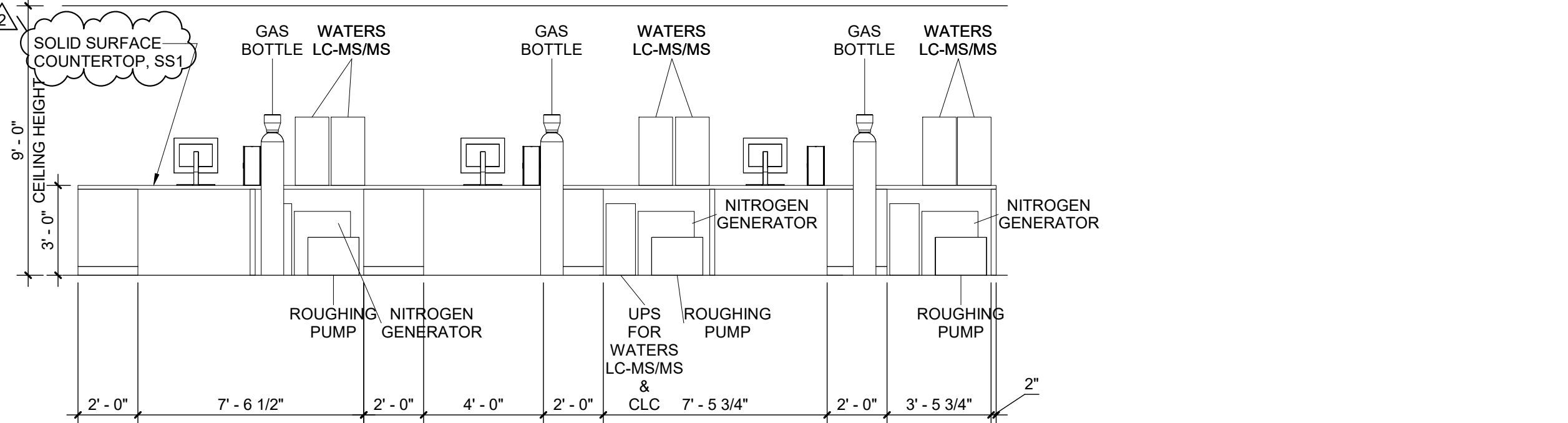
1 ENLARGED TOXICOLOGY LAB
1/4" = 1'-0"



2 TOXICOLOGY LAB ELEVATIONS
1/4" = 1'-0"



3 TOXICOLOGY LAB ELEVATIONS
1/4" = 1'-0"



4 TOXICOLOGY LAB ELEVATIONS
1/4" = 1'-0"

5 TOXICOLOGY LAB ELEVATIONS
1/4" = 1'-0"

MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS

MARSHALL HEALTH
SCOTT DEPOT, WV
FEBRUARY 22, 2024
CONSTRUCTION DOCUMENTS

DRAWN: ALB
CHECKED: CCA
PROJECT No.
T60-11110

DATE: 02/22/24
DATE: 02/22/24
ENLARGED PLAN VIEWS
& INT. ELEVATIONS
SHEET No.

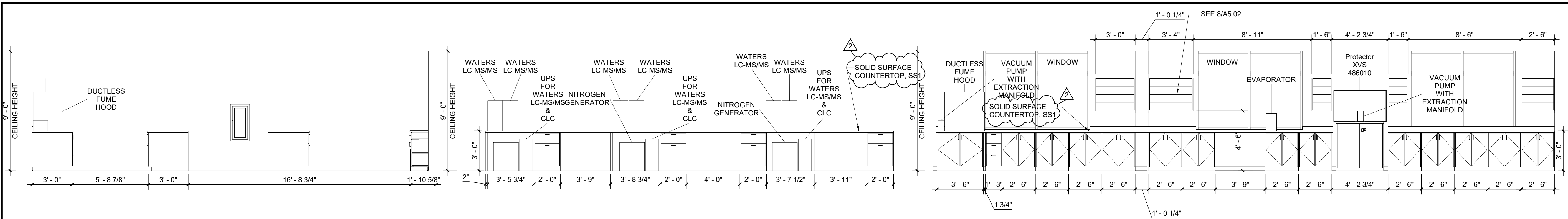
A4.01

LAYOUT TAB: ENLARGED PLAN VIEWS & INT. ELEVATIONS
CAD FILE: C:\Users\alassen\OneDrive - Thrasher Engineering Group\Documents\Marshall Health Strayer Building Other Citrus Renovations_Central_Jan2024\T2024.rvt
PLOT DATE/TIME: 3/15/2024 5:05:18 PM
USER: ALB

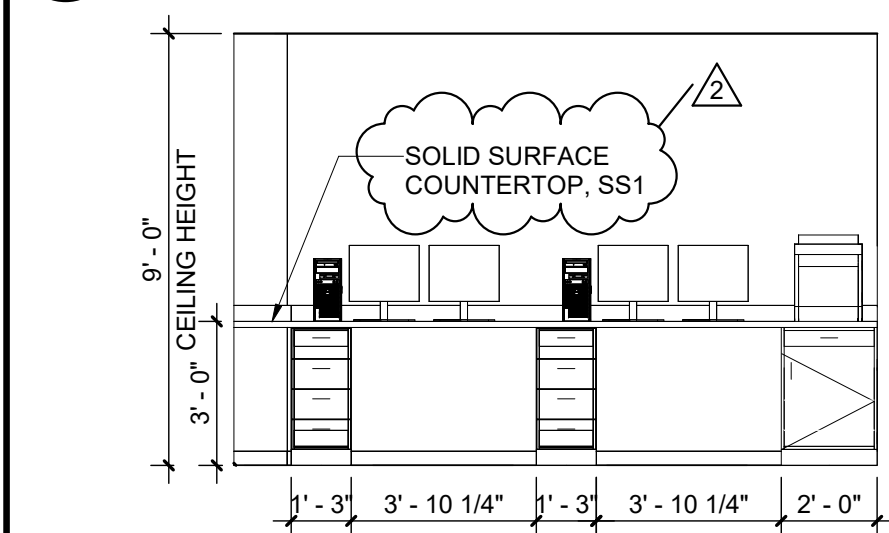
USER: ALB

PLOT DATE/TIME: 3/15/2024 5:02:22 PM

LAYOUT TAB ENLARGED PLAN VIEWS & INT. ELEVATIONS
CAD FILE: C:\Users\alabier\OneDrive - Thrasher Engineering Group\Documents\Marshall Health Strayer Building Other Citrus Renovations_Centra_Revision\2205.rvt

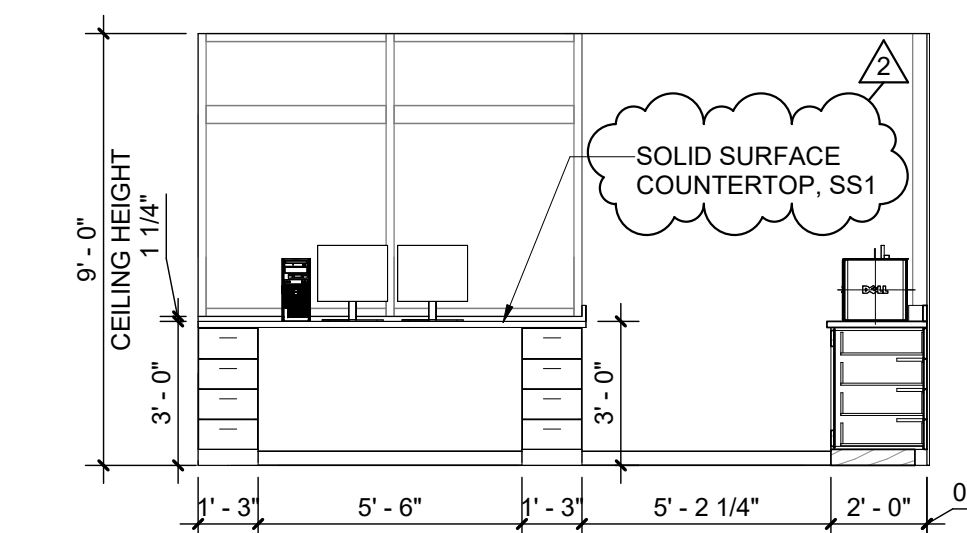


1 TOXICOLOGY LAB ELEVATIONS
A4.02 1/4" = 1'-0"



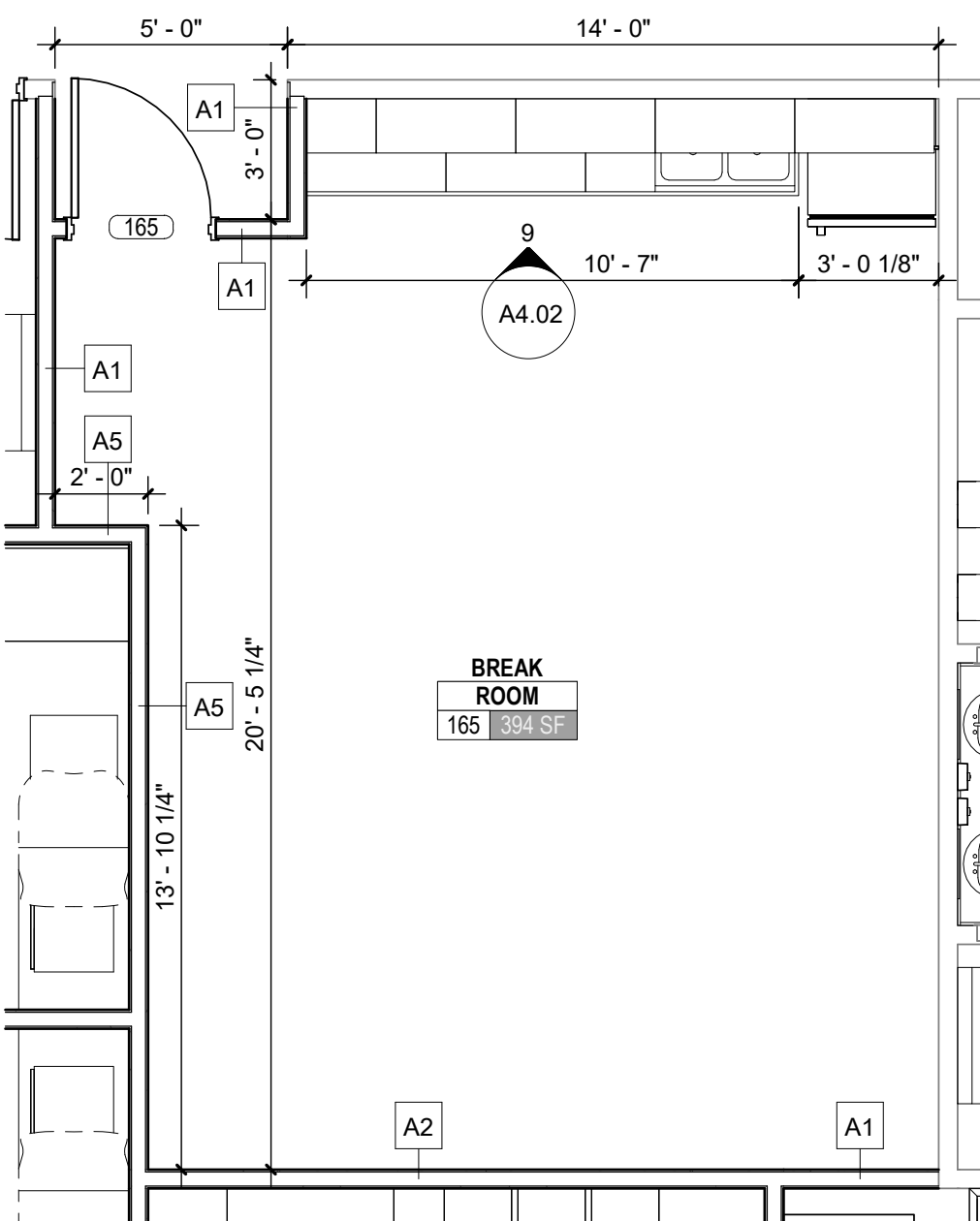
4 TOXICOLOGY LAB RECEIVING ELEVATIONS
A4.02 1/4" = 1'-0"

5 TOXICOLOGY LAB RECEIVING ELEVATIONS
A4.02 1/4" = 1'-0"



2 TOXICOLOGY LAB ELEVATIONS
A4.02 1/4" = 1'-0"

3 TOXICOLOGY LAB ELEVATIONS
A4.02 1/4" = 1'-0"

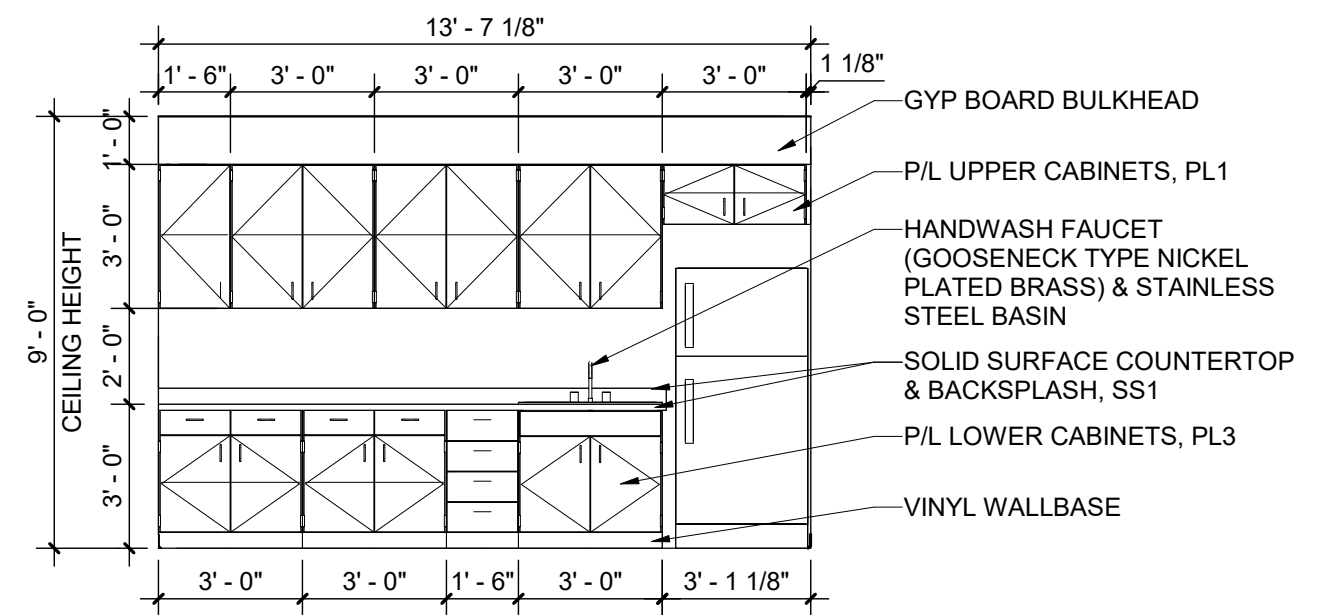


8 ENLARGED BREAK ROOM 160
A4.02 1/4" = 1'-0"

CASEWORK FINISH LEGEND	
NOTE NUMBER	DESCRIPTION
PL1	FORMICA - NATURAL WHITE - SCULPTED FINISH - 918-SP
PL2	FORMICA - FOSSIL WATT - MATTE COLLECTION - 5349-58
PL3	FORMICA - OTTER - GLOSS COLLECTION - 3202-90
PL4	FORMICA - EARTHEN WARP - MATTE COLLECTION - 5880-58
PL5	FORMICA - FOSSIL - SCULPTED FINISH - 5349-SP
PL6	FORMICA - WHEAT STRAND - MATTE COLLECTION - 6212-58
SS1	FORMICA - BIANCO MINERAL - DESIGNER SERIES
SS2	FORMICA - LUNA SAND - CLASSIC SERIES

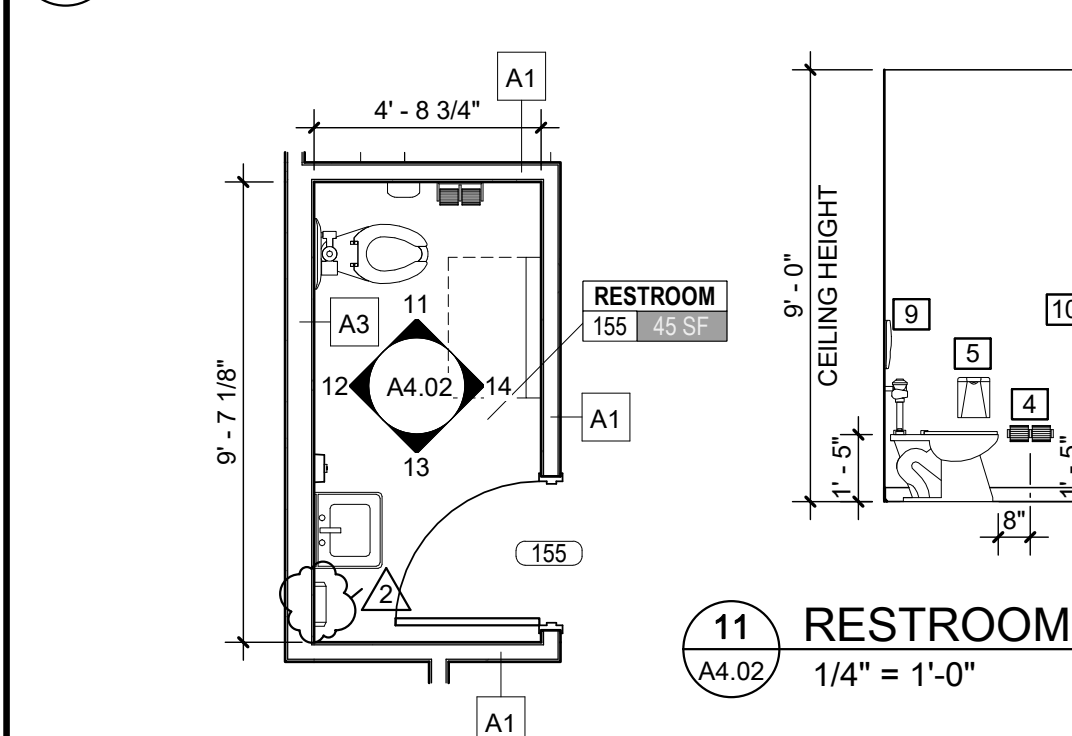
LABORATORY EQUIPMENT GENERAL NOTES:

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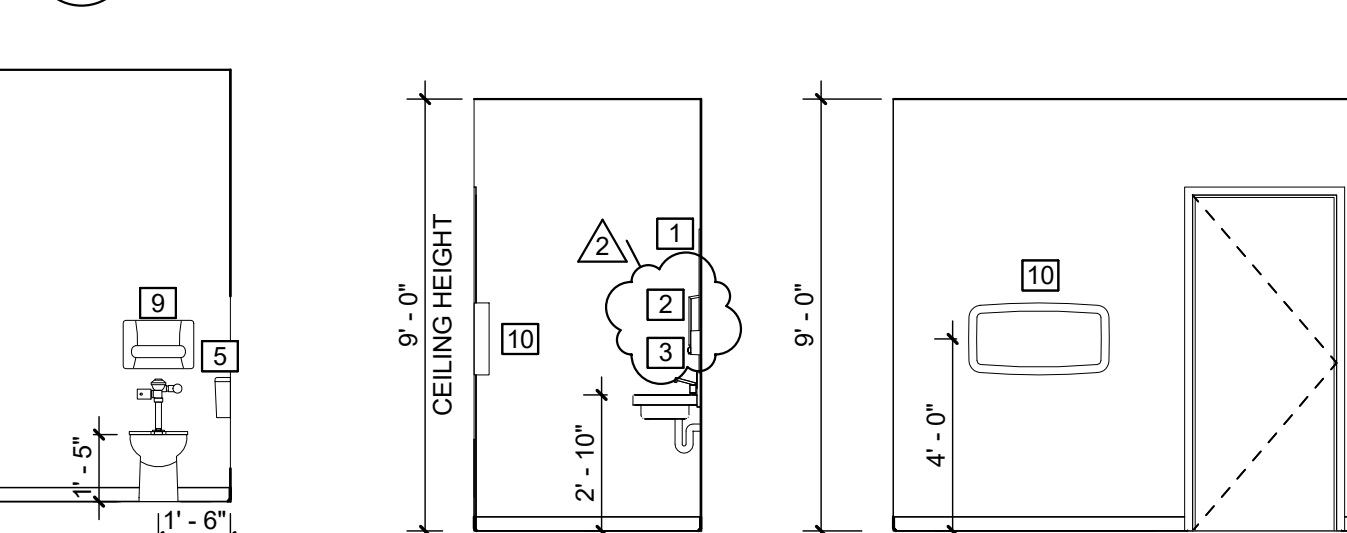


9 BREAKROOM KITCHENETTE
A4.02 1/4" = 1'-0"

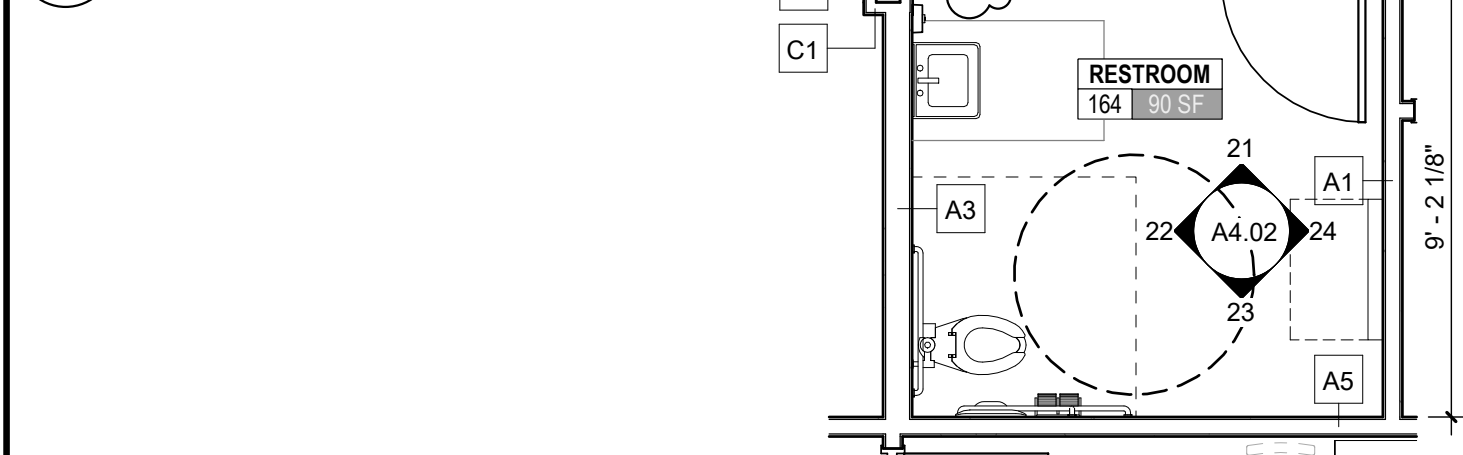
6 ENLARGED OCCUPATIONAL MEDICINE NURSE STATION 157
A4.02 1/4" = 1'-0"



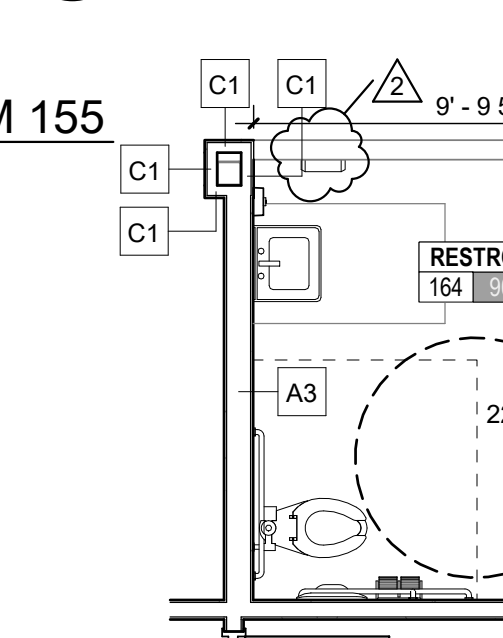
7 OCCUPATIONAL MEDICINE NURSE STATION ELEVATIONS
A4.02 1/4" = 1'-0"



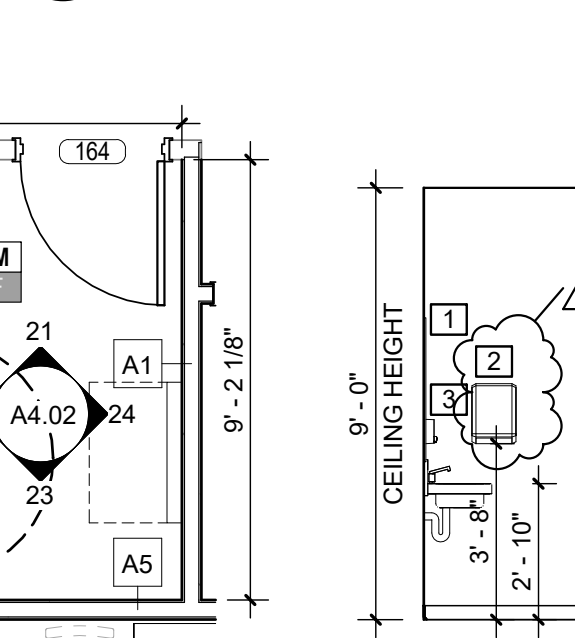
10 ENLARGED RESTROOM 155
A4.02 1/4" = 1'-0"



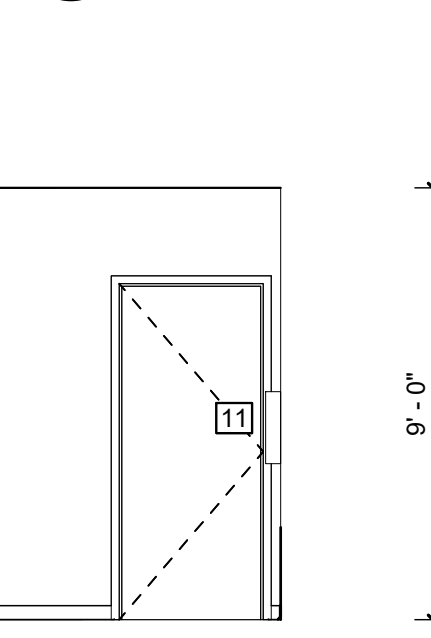
11 RESTROOM 155
A4.02 1/4" = 1'-0"



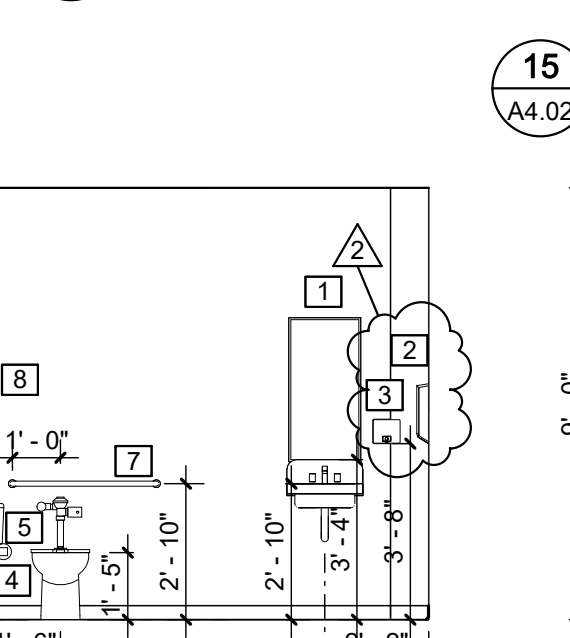
12 RESTROOM 155
A4.02 1/4" = 1'-0"



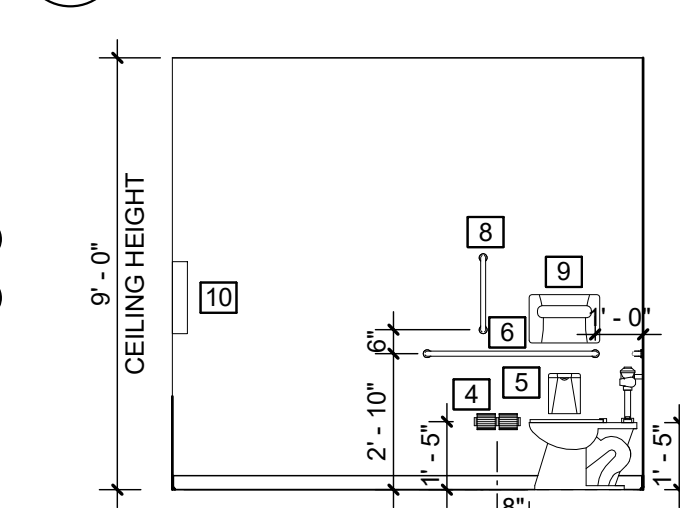
13 RESTROOM 155
A4.02 1/4" = 1'-0"



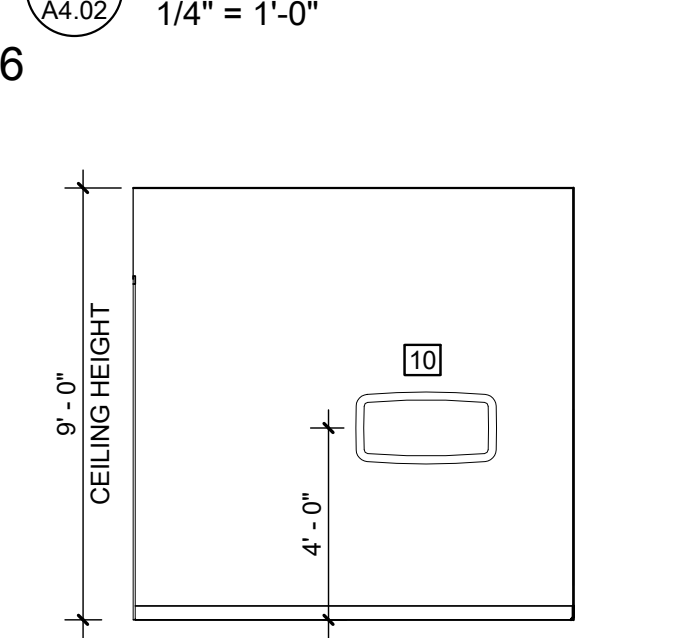
14 RESTROOM 155
A4.02 1/4" = 1'-0"



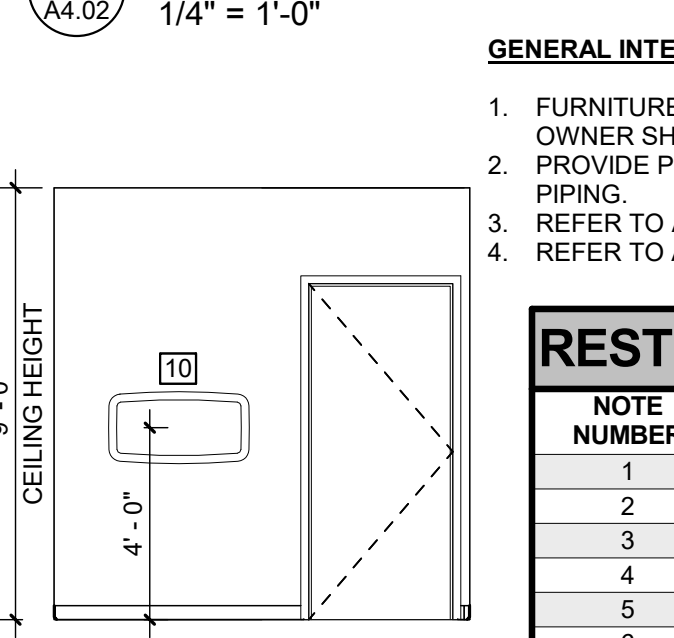
15 ENLARGED RESTROOM 156
A4.02 1/4" = 1'-0"



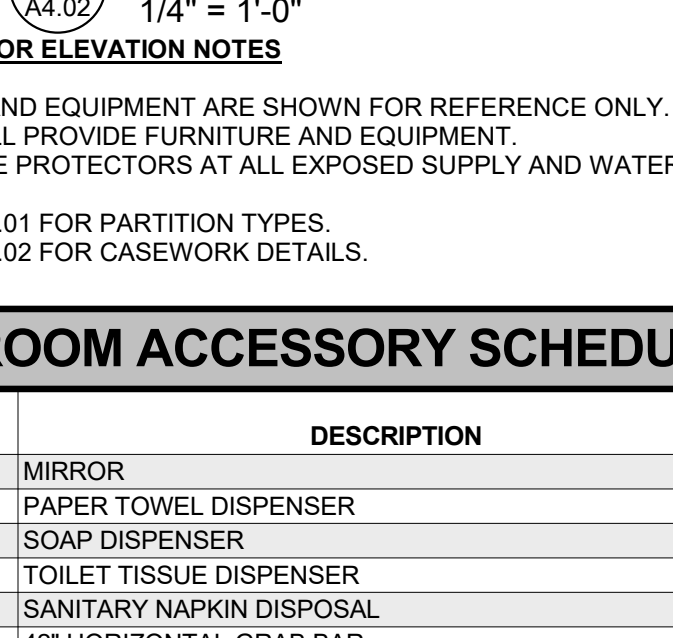
16 RESTROOM 156
A4.02 1/4" = 1'-0"



17 RESTROOM 156
A4.02 1/4" = 1'-0"



18 RESTROOM 156
A4.02 1/4" = 1'-0"



GENERAL INTERIOR ELEVATION NOTES:

- FURNITURE AND EQUIPMENT ARE SHOWN FOR REFERENCE ONLY. OWNER SHALL PROVIDE FURNITURE AND EQUIPMENT.
- PROVIDE PIPE PROTECTORS AT ALL EXPOSED SUPPLY AND WATER PIPING.
- REFER TO A5.01 FOR PARTITION TYPES.
- REFER TO A5.02 FOR CASEWORK DETAILS.

RESTROOM ACCESSORY SCHEDULE	
NOTE NUMBER	DESCRIPTION
1	MIRROR
2	PAPER TOWEL DISPENSER
3	SOAP DISPENSER
4	TOILET TISSUE DISPENSER
5	SANITARY NAPKIN DISPOSAL
6	42" HORIZONTAL GRAB BAR
7	36" HORIZONTAL GRAB BAR
8	18" VERTICAL GRAB BAR
9	TOILET SEAT COVER DISPENSER
10	BABY CHANGING STATION
11	HAND DRYER

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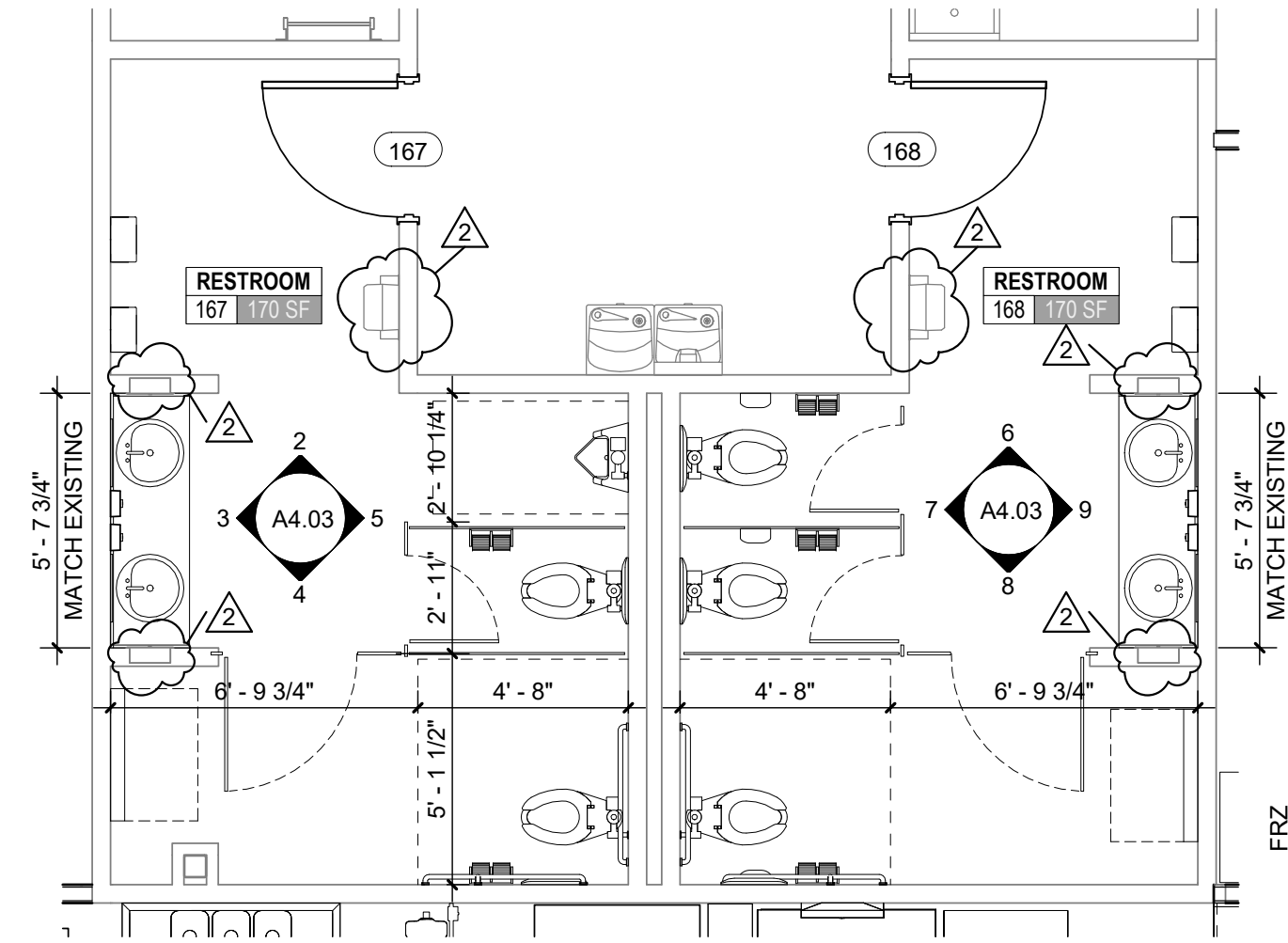
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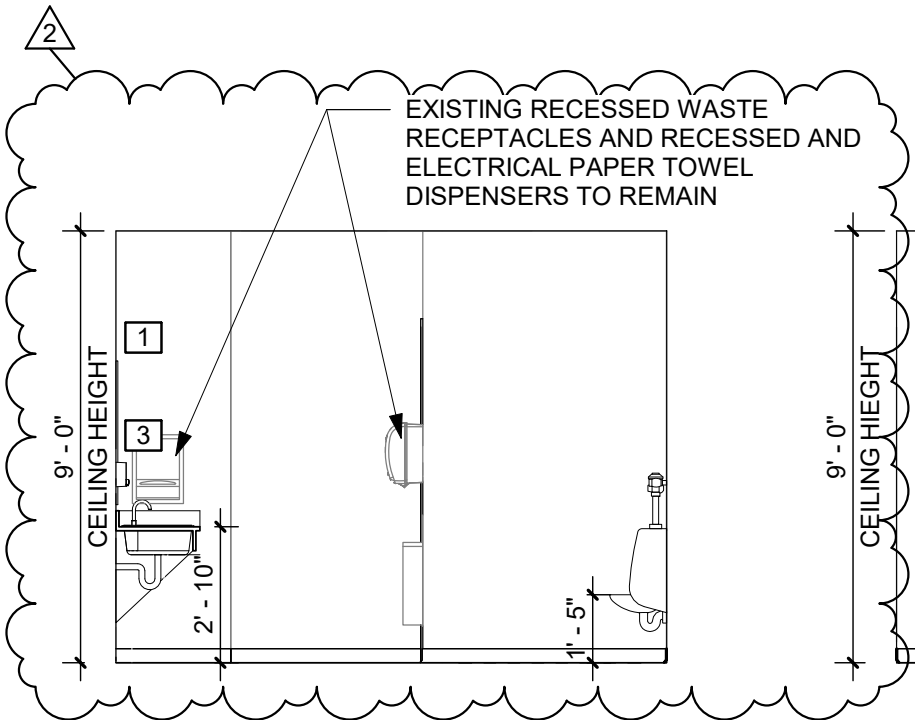
NO.	BY	DATE	DESCRIPTION
2	ALB	03/15/24	ADDENDUM 2

**MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS**
MARSHALL HEALTH
SCOTT DEPOT, WV
FEBRUARY 22, 2024
CONSTRUCTION DOCUMENTS

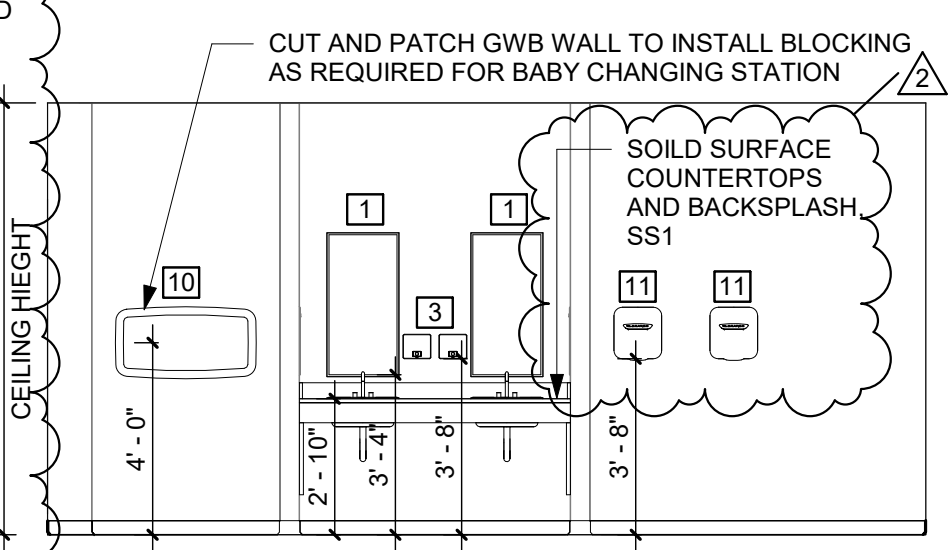
DRAWN: ALB DATE: 02/22/24
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PROJECT No. T60-11110
SHEET No.
ENLARGED PLAN VIEWS & INT. ELEVATIONS
A4.02



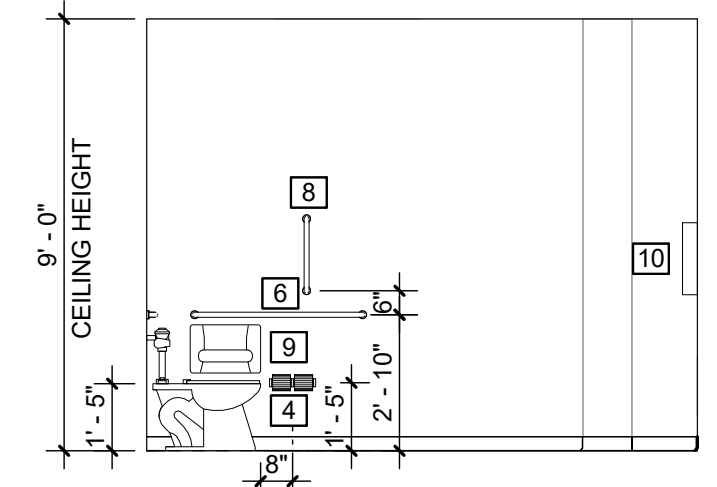
1 ENLARGED RESTROOM 167 & 168
A4.03 1/4" = 1'-0"



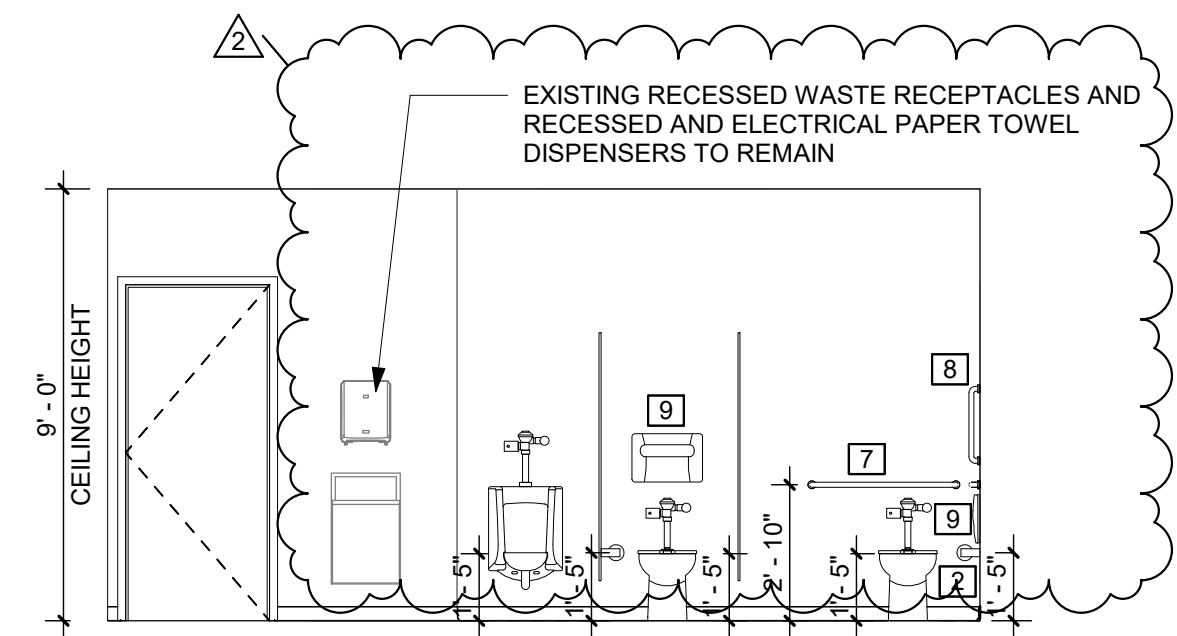
2 RESTROOM 167
A4.03 1/4" = 1'-0"



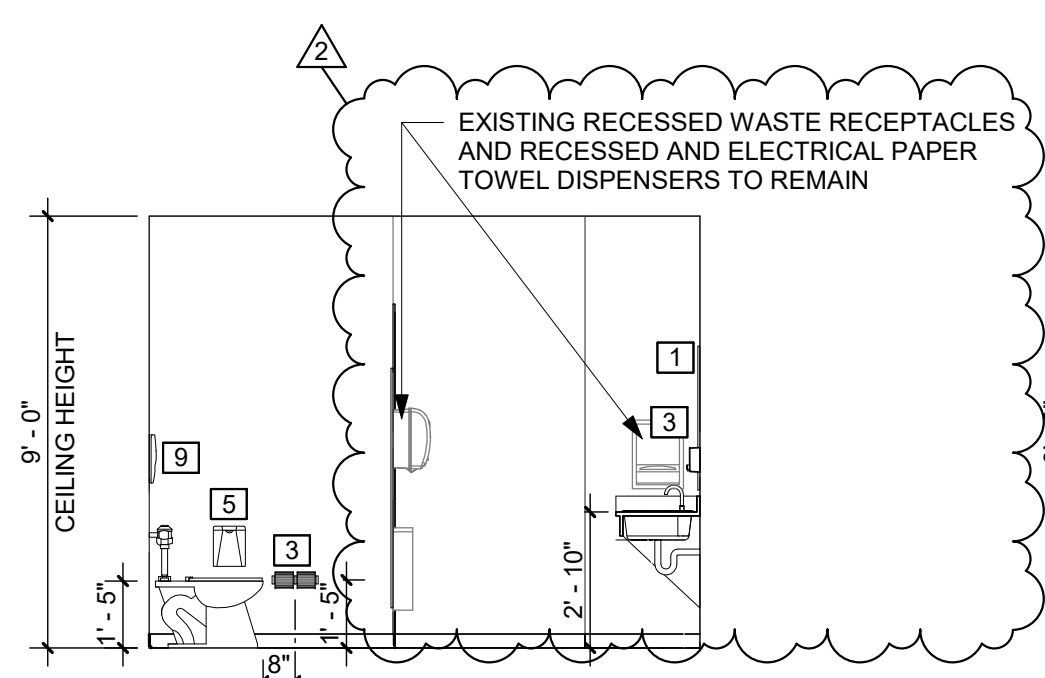
3 RESTROOM 167
A4.03 1/4" = 1'-0"



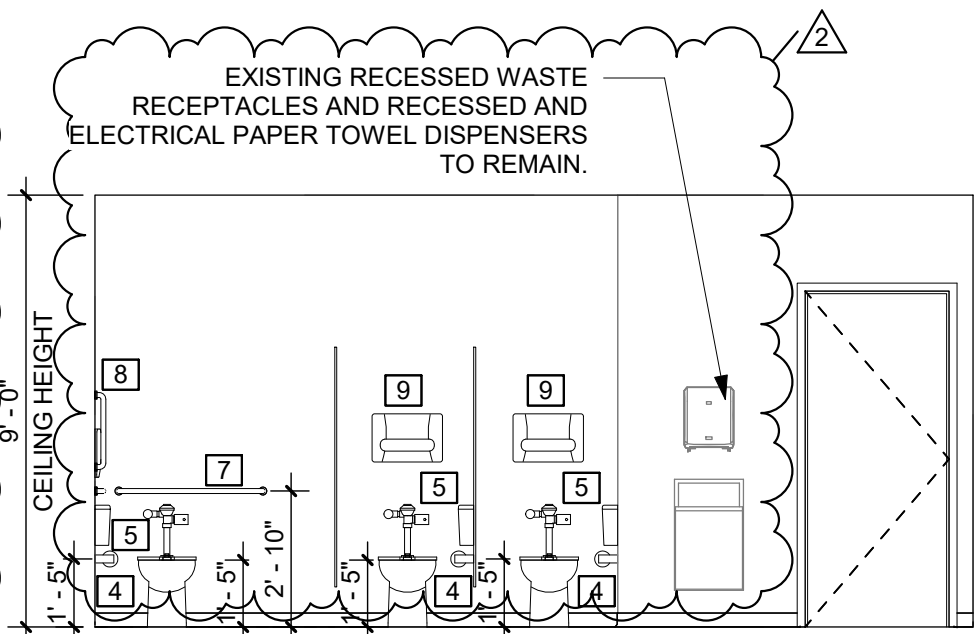
4 RESTROOM 167
A4.03 1/4" = 1'-0"



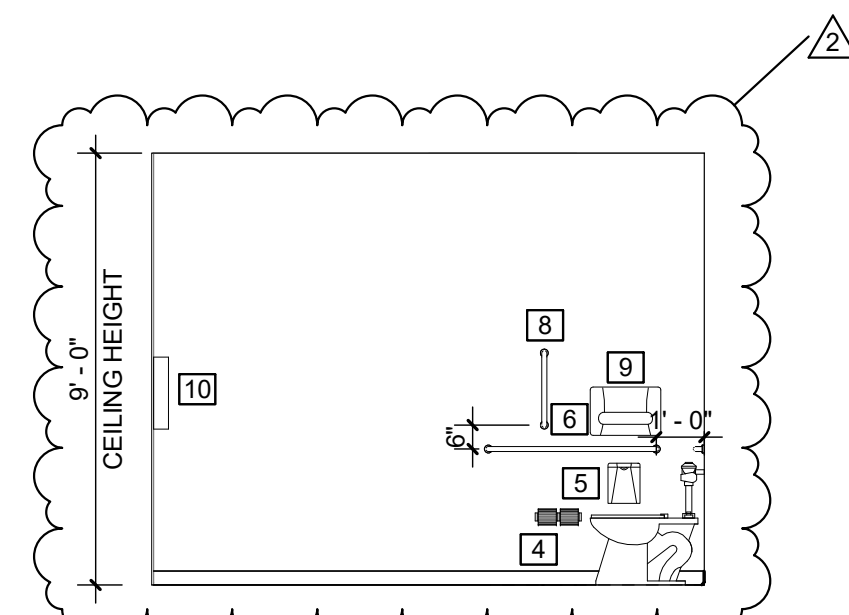
5 RESTROOM 167
A4.03 1/4" = 1'-0"



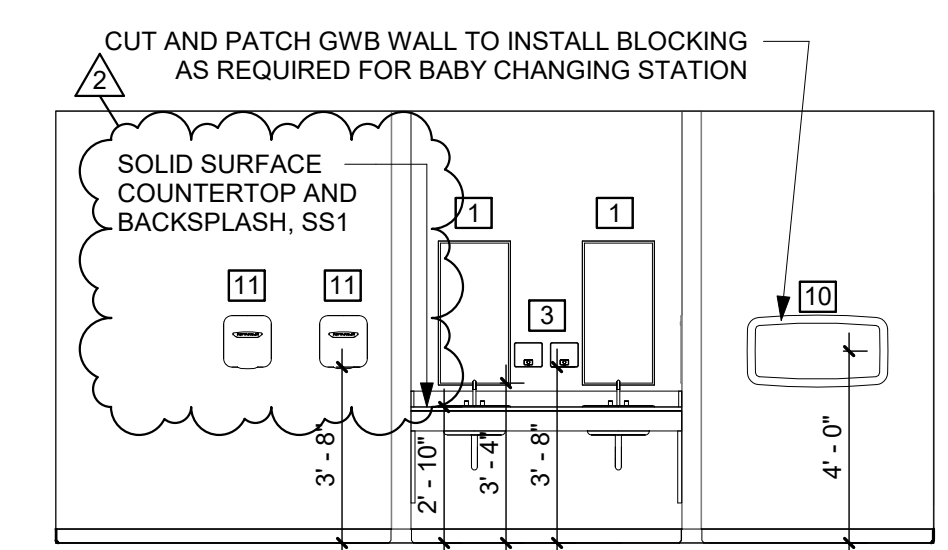
6 RESTROOM 168
A4.03 1/4" = 1'-0"



7 RESTROOM 168
A4.03 1/4" = 1'-0"



8 RESTROOM 168
A4.03 1/4" = 1'-0"



9 RESTROOM 168
A4.03 1/4" = 1'-0"

- NOTE:
1. PROVIDE PIPE PROTECTORS AT ALL EXPOSED SUPPLY AND WATER PIPING.
 2. REFER TO A5.01 FOR PARTITION TYPES.
 3. REFER TO A5.02 FOR CASEWORK DETAILS.

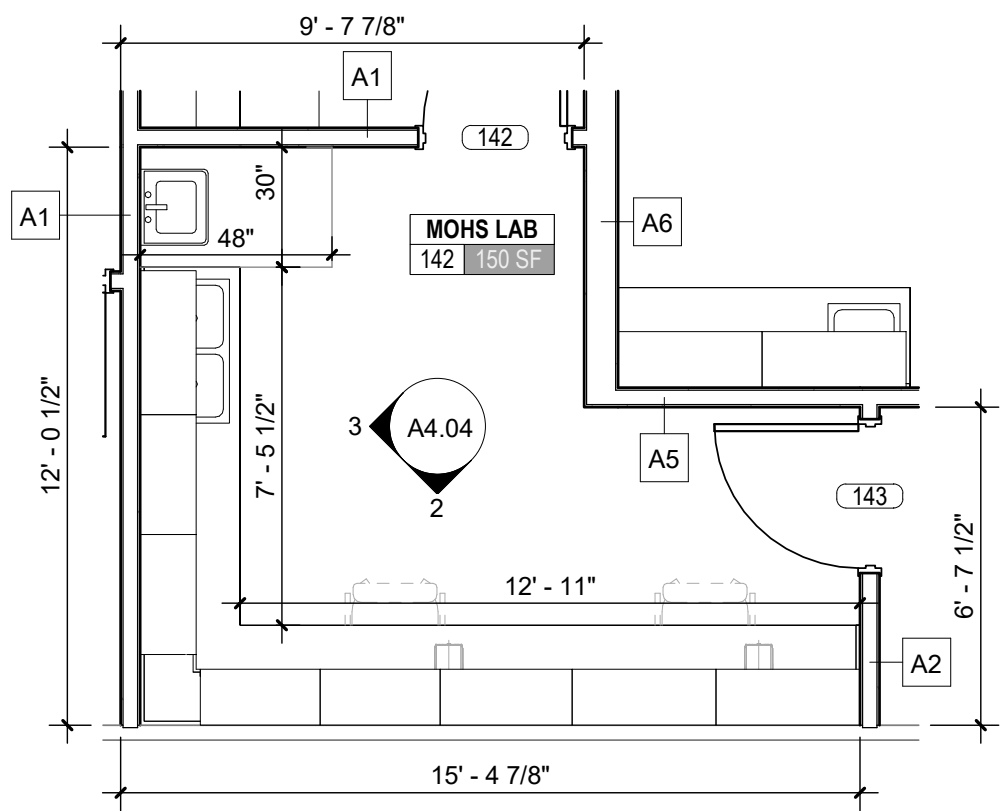
RESTROOM ACCESSORY SCHEDULE	
NOTE NUMBER	DESCRIPTION
1	MIRROR
2	PAPER TOWEL DISPENSER
3	SOAP DISPENSER
4	TOILET TISSUE DISPENSER
5	SANITARY NAPKIN DISPOSAL
6	42" HORIZONTAL GRAB BAR
7	36" HORIZONTAL GRAB BAR
8	18" VERTICAL GRAB BAR
9	TOILET SEAT COVER DISPENSER
10	BABY CHANGING STATION
11	HAND DRYER

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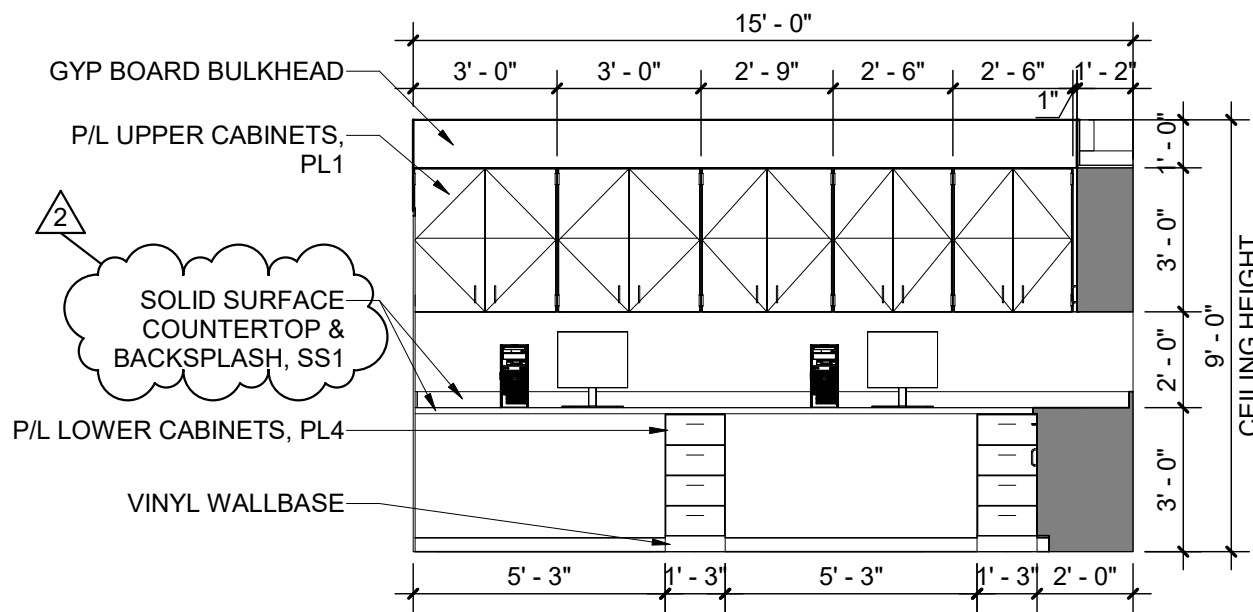


NO.	BY	DATE	DESCRIPTION
2	ALB	03/15/24	ADDENDUM 2

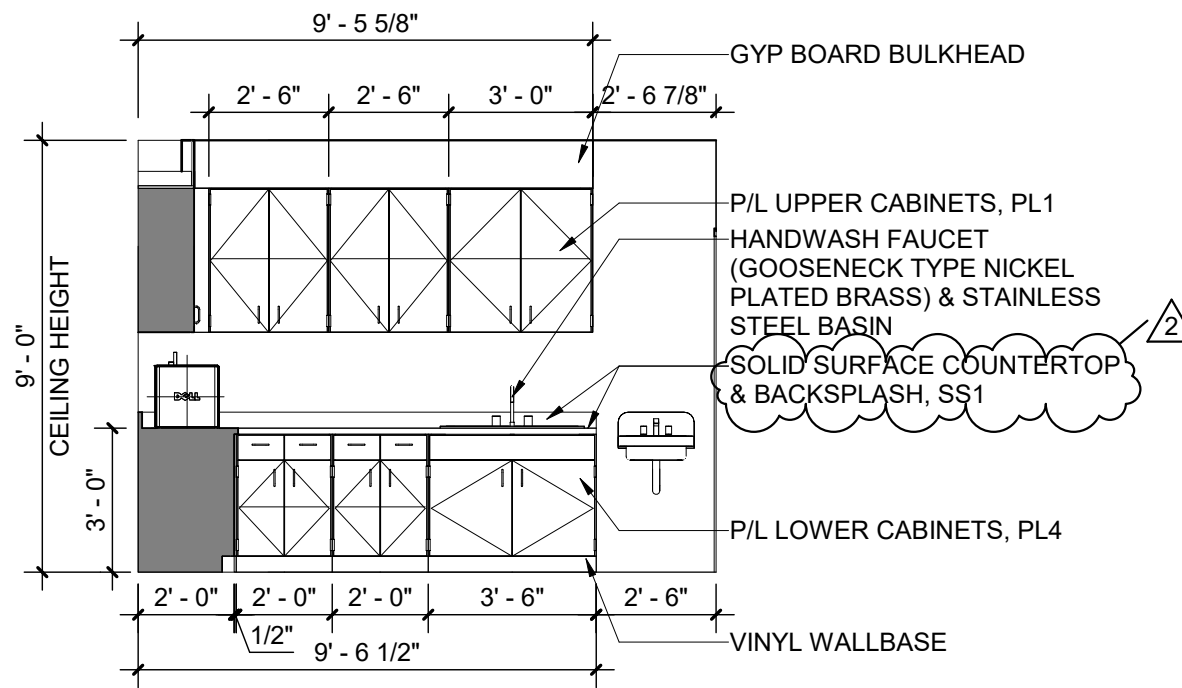
**MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS**
MARSHALL HEALTH
SCOTT DEPOT, WV
FEBRUARY 22, 2024
CONSTRUCTION DOCUMENTS



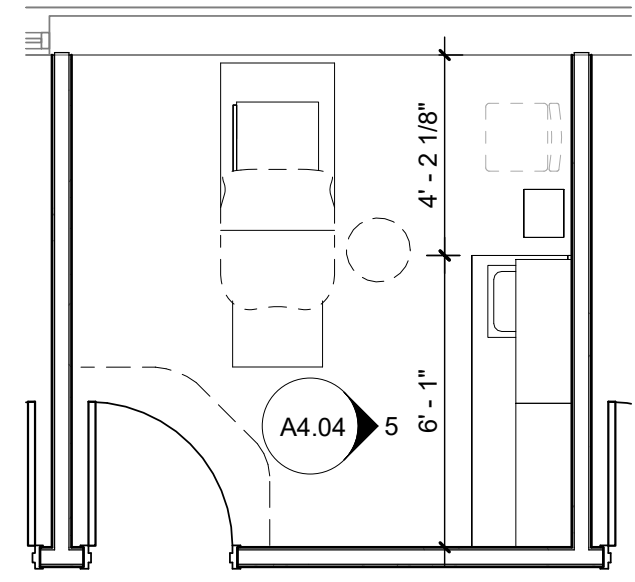
1 ENLARGED MOHS LAB
A4.04 1/4" = 1'-0"



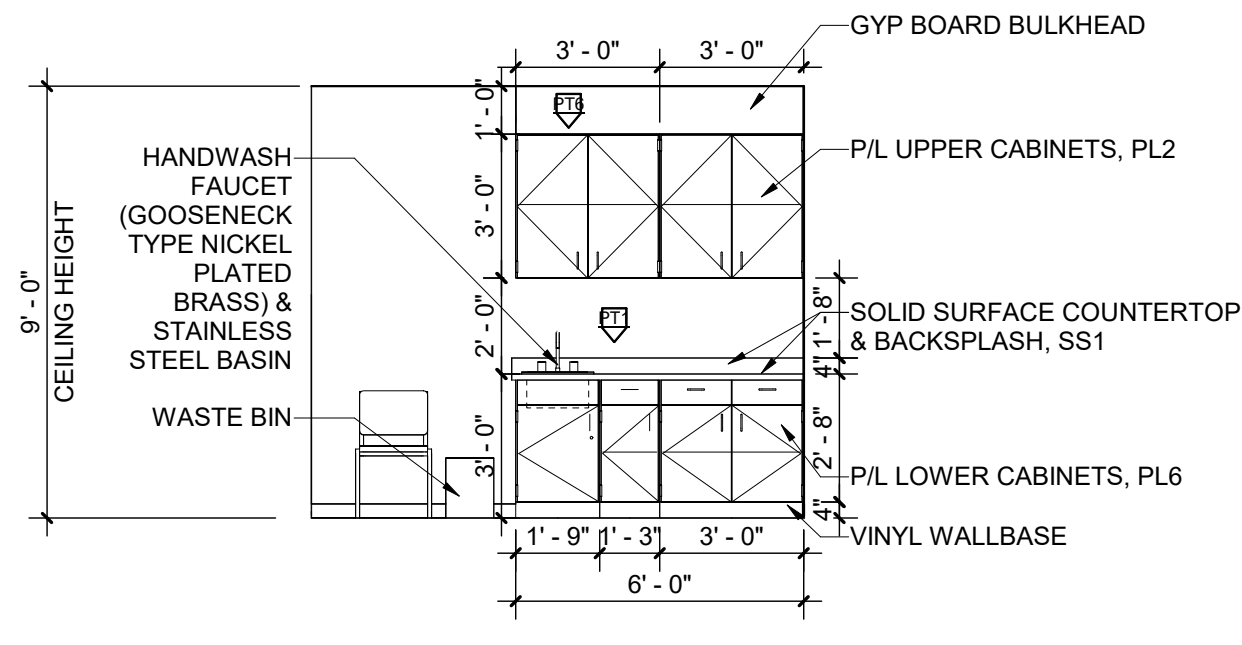
2 MOHS LAB ELEVATIONS
A4.04 1/4" = 1'-0"



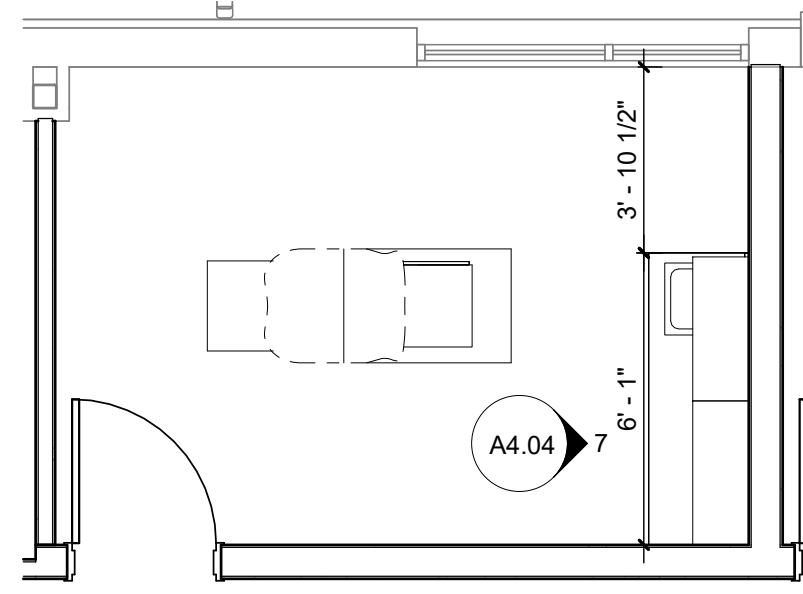
3 MOHS LAB ELEVATIONS
A4.04 1/4" = 1'-0"



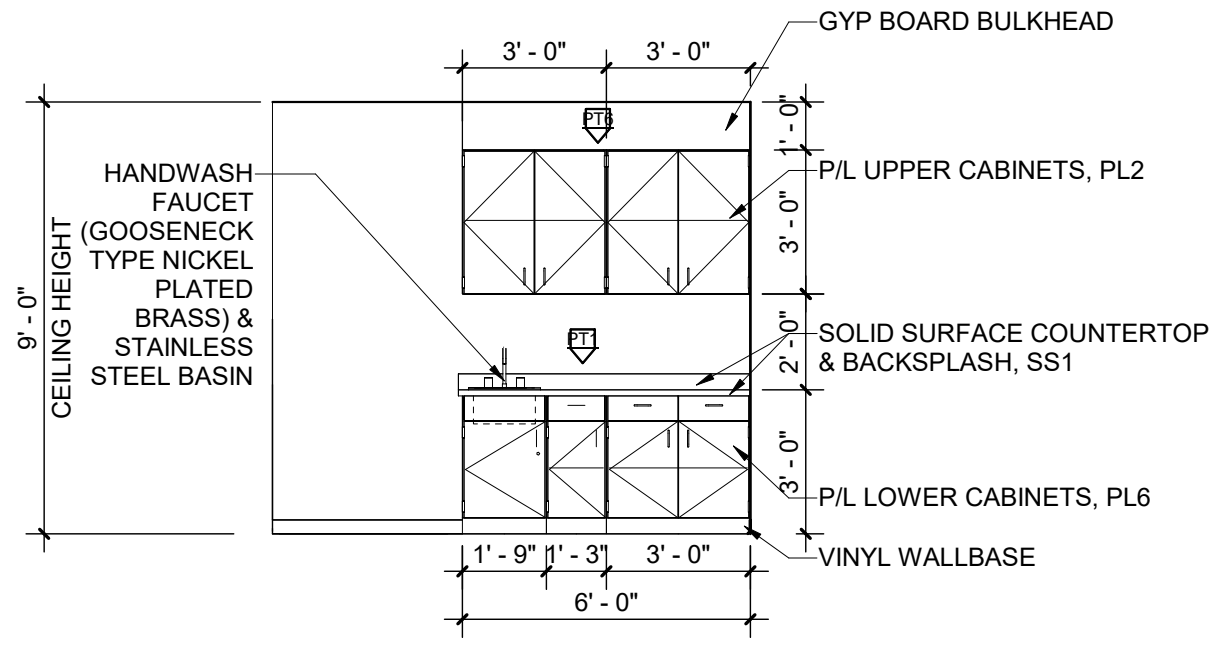
4 ENLARGED TYPICAL EXAM ROOM
A4.04 1/4" = 1'-0"



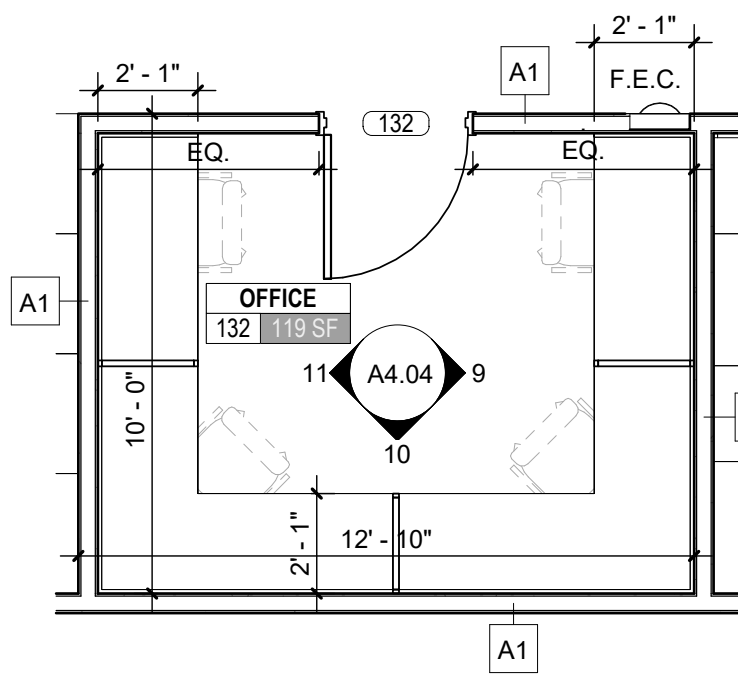
5 TYPICAL EXAM ROOM CASEWORK
A4.04 1/4" = 1'-0"



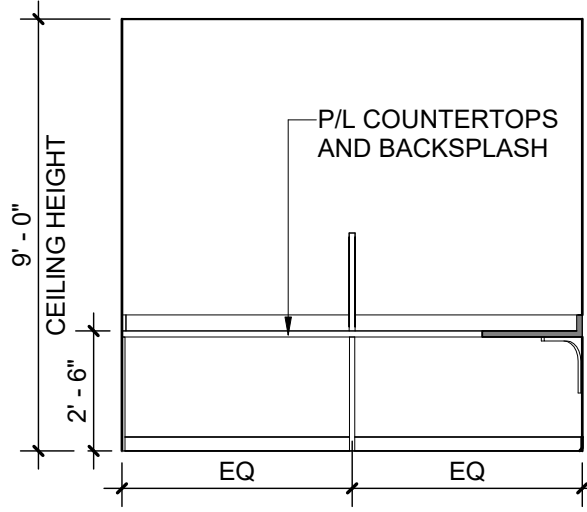
6 ENLARGED TYPICAL PROCEDURE ROOM
A4.04 1/4" = 1'-0"



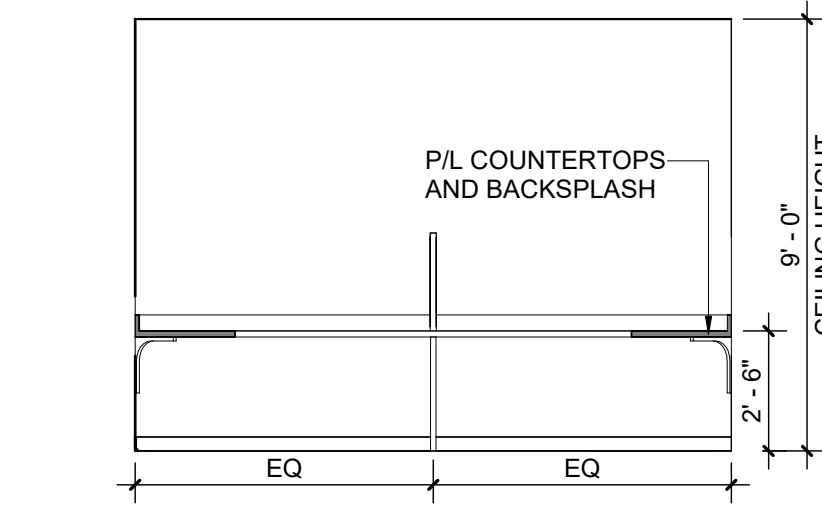
7 TYPICAL PROCEDURE CASEWORK
A4.04 1/4" = 1'-0"



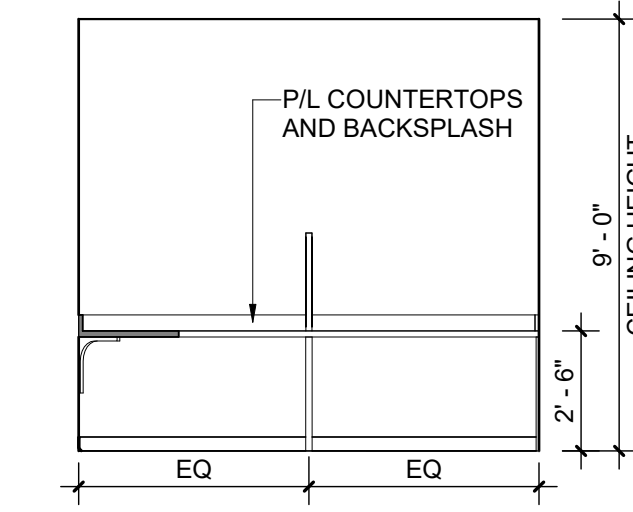
8 ENLARGED DERM OFFICE 132
A4.04 1/4" = 1'-0"



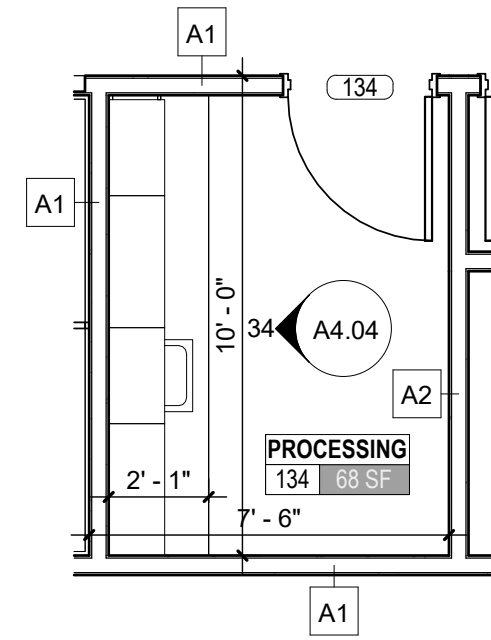
9 DERM OFFICE ELEVATIONS
A4.04 1/4" = 1'-0"



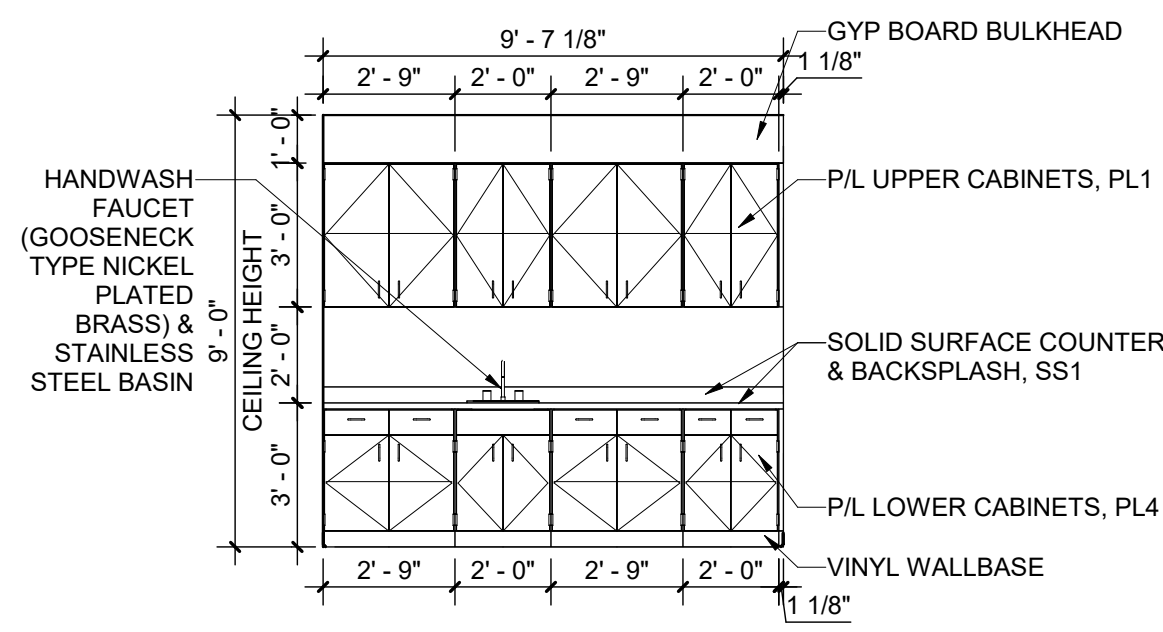
10 DERM OFFICE ELEVATIONS
A4.04 1/4" = 1'-0"



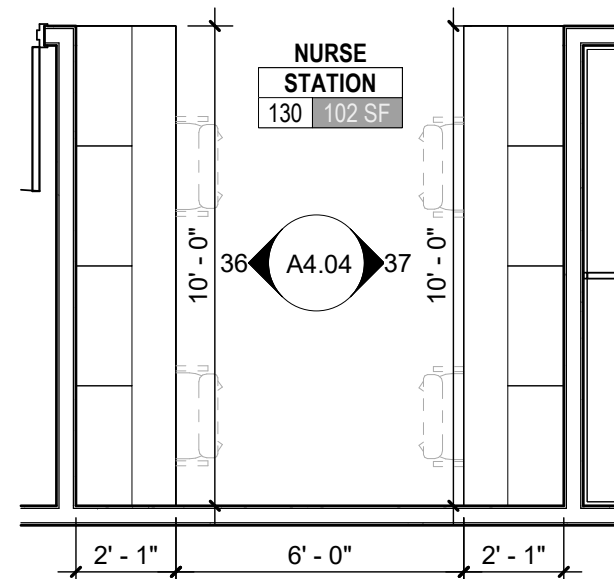
11 DERM OFFICE ELEVATIONS
A4.04 1/4" = 1'-0"



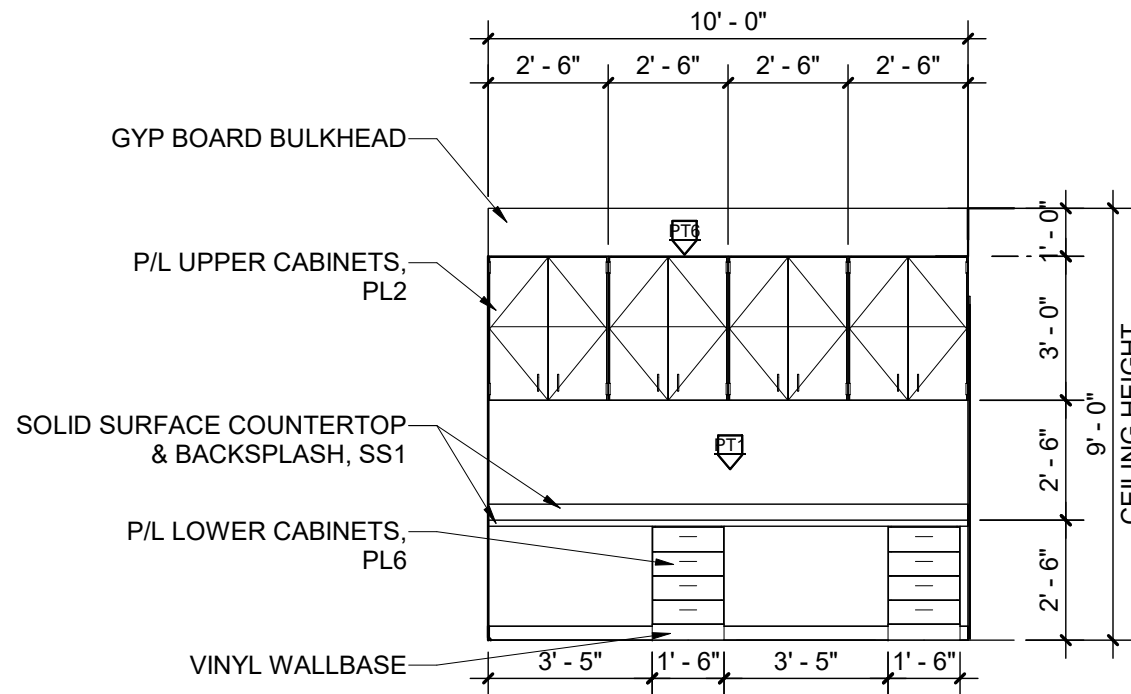
33 ENLARGED PROCESSING 134
A4.04 1/4" = 1'-0"



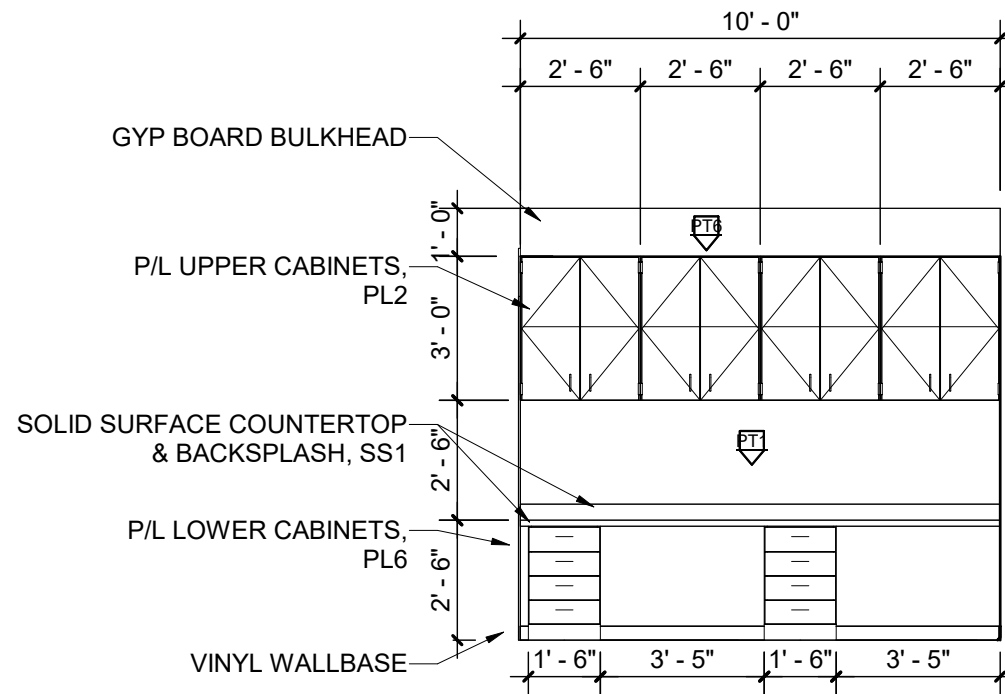
34 PROCESSING ELEVATIONS
A4.04 1/4" = 1'-0"



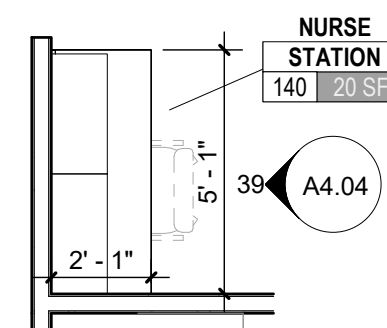
35 ENLARGED DERM NURSE STATION 130
A4.04 1/4" = 1'-0"



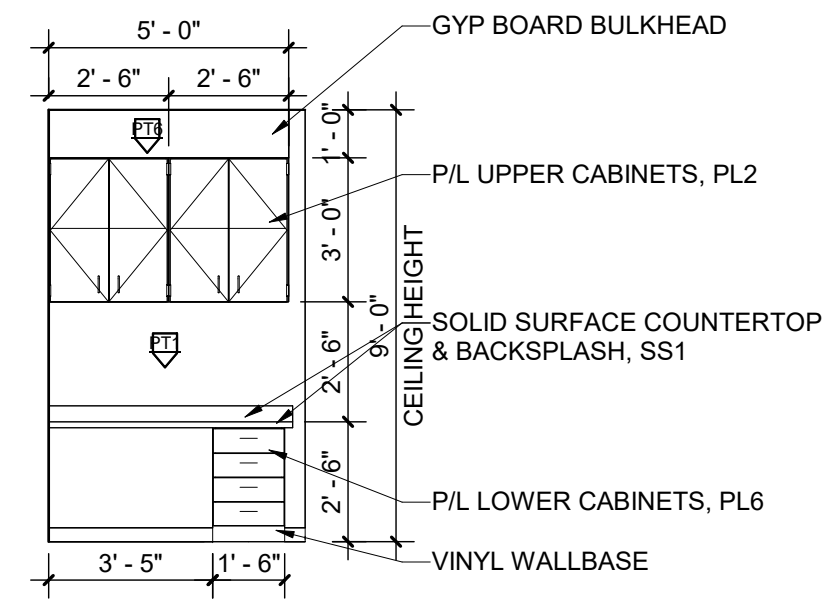
36 DERM NURSE STATION ELEVATIONS
A4.04 1/4" = 1'-0"



37 DERM NURSE STATION ELEVATIONS
A4.04 1/4" = 1'-0"



38 ENLARGED MOHS NURSE STATION 140
A4.04 1/4" = 1'-0"



39 MOHS NURSE STATION ELEVATIONS
A4.04 1/4" = 1'-0"

CASEWORK FINISH LEGEND

NOTE NUMBER	DESCRIPTION
PL1	FORMICA - NATURAL WHITE - SCULPTED FINISH - 918-SP
PL2	FORMICA - FOSSIL WATT - MATTE COLLECTION - 5349-58
PL3	FORMICA - OTTER - GLOSS COLLECTION - 3202-90
PL4	FORMICA - EARTHEN WARP - MATTE COLLECTION - 5880-58
PL5	FORMICA - FOSSIL - SCULPTED FINISH - 5349-SP
PL6	FORMICA - WHEAT STRAND - MATTE COLLECTION - 6212-58
SS1	FORMICA - BIANCO MINERAL - DESIGNER SERIES
SS2	FORMICA - LUNA SAND - CLASSIC SERIES

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- PROVIDE PIPE PROTECTORS AT ALL EXPOSED SUPPLY AND WATER PIPING.
- REFER TO A5.01 FOR PARTITION TYPES.
- REFER TO A5.02 FOR CASEWORK DETAILS.

THRASHER

600 WHITE OAKS BLVD.
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NO.	BY	DATE	DESCRIPTION
2	ALB	03/15/24	ADDENDUM 2

**MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS**

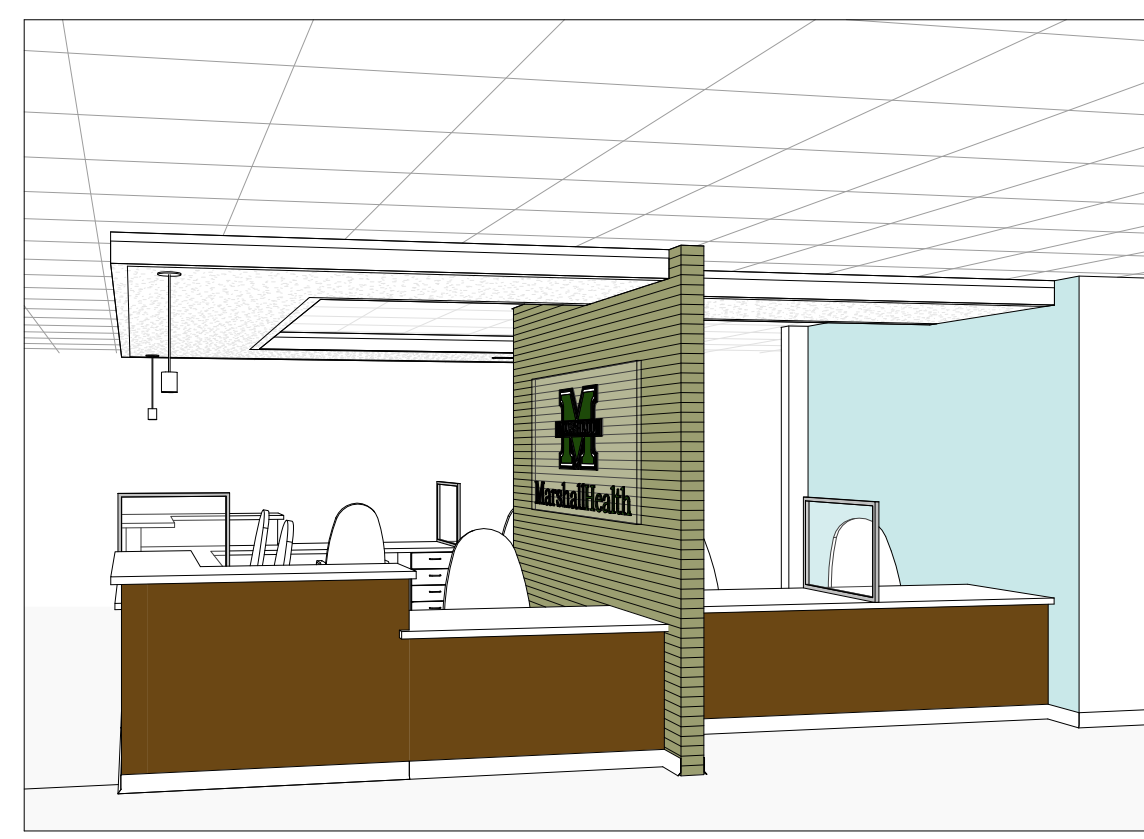
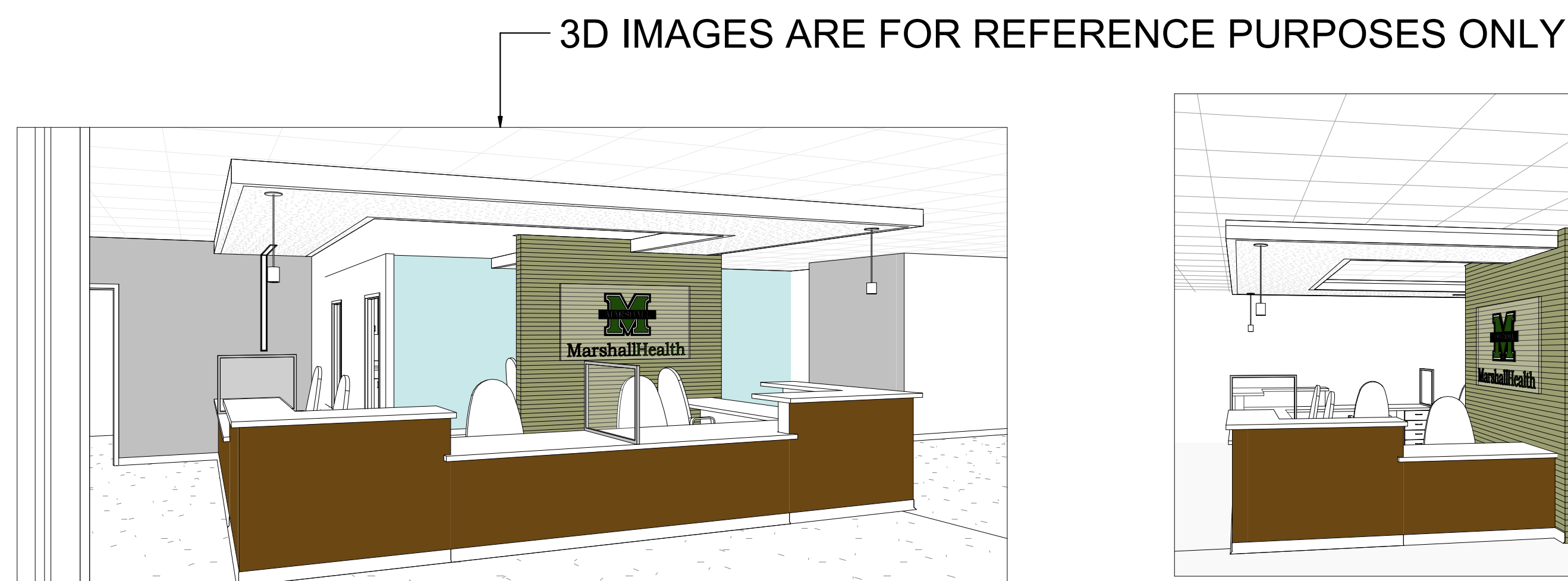
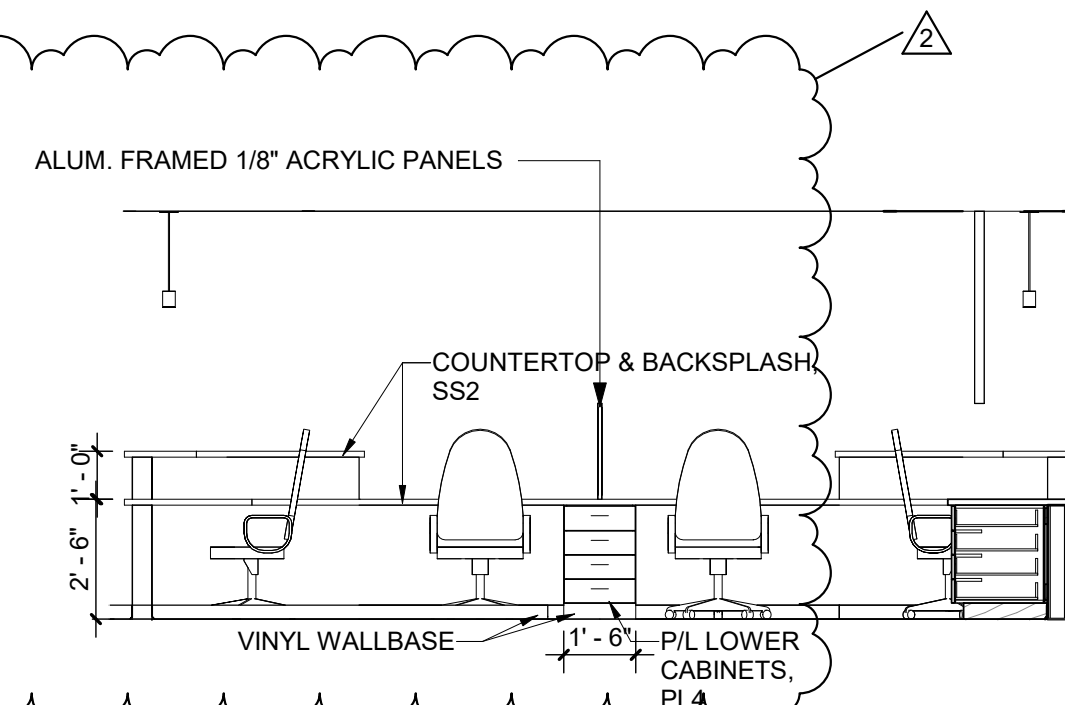
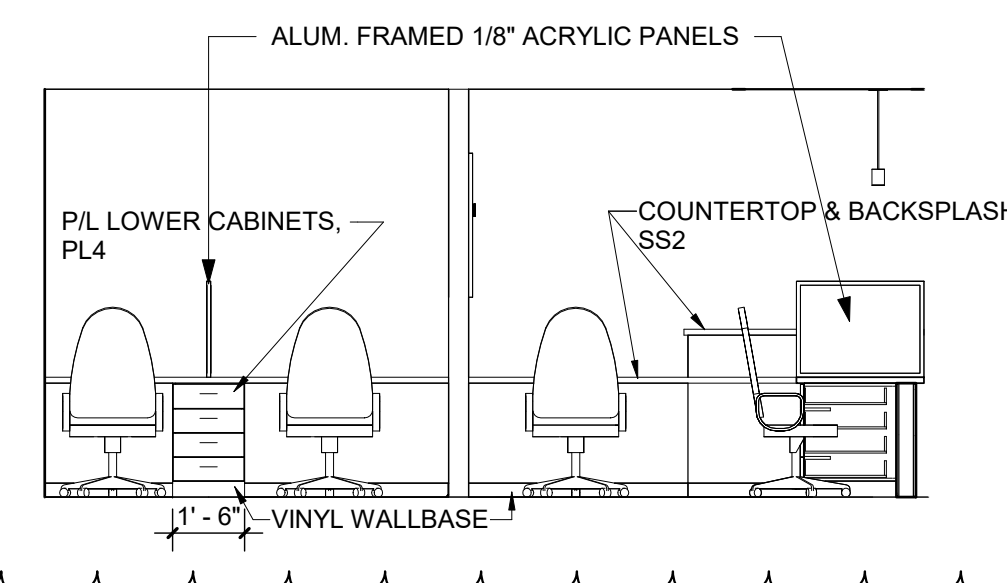
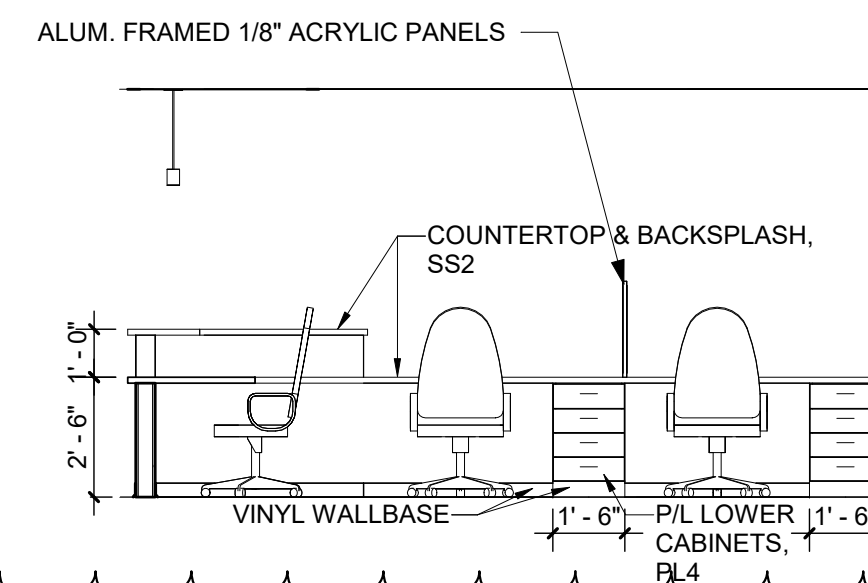
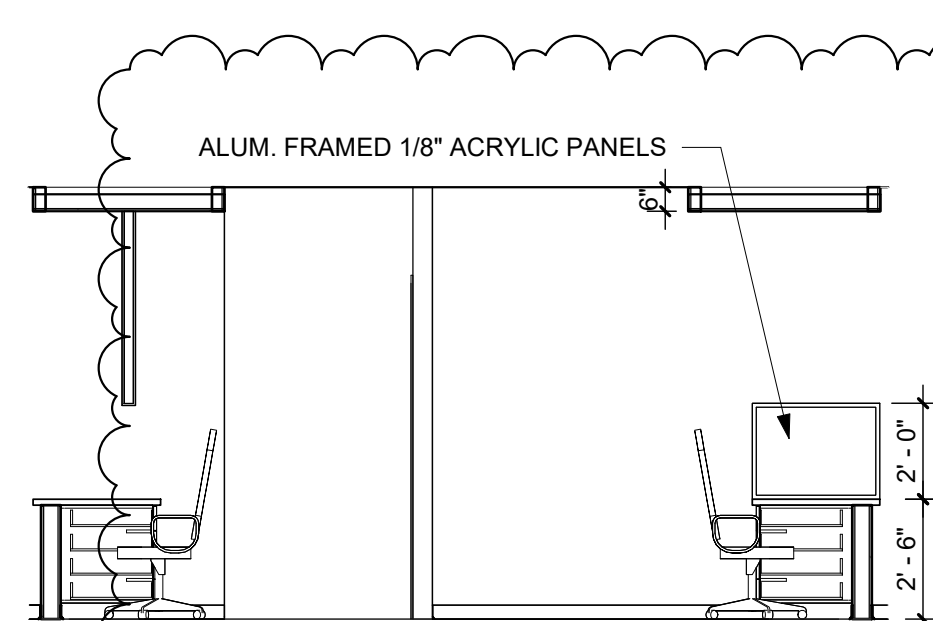
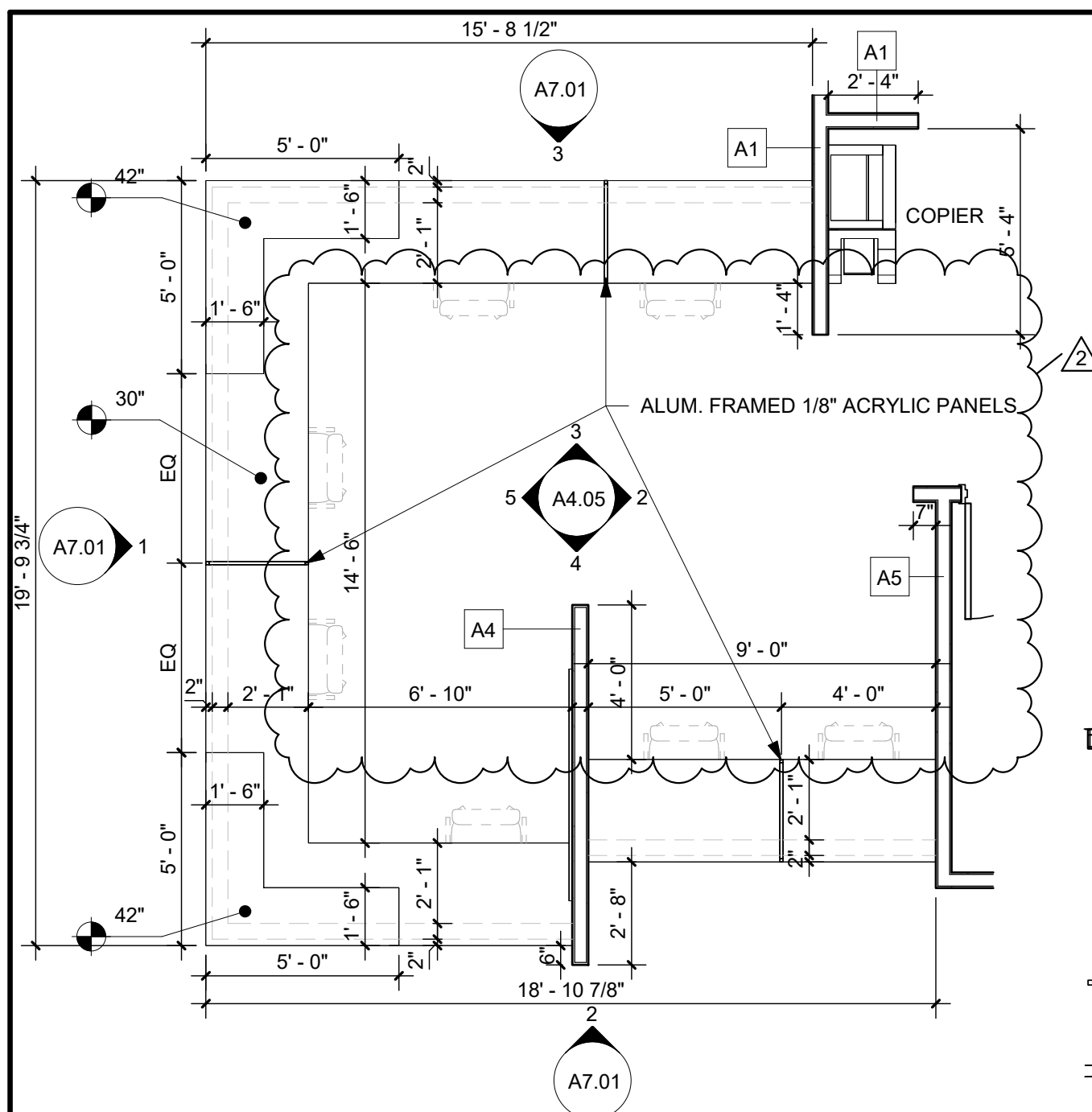
MARSHALL HEALTH
SCOTT DEPOT, WV

FEBRUARY 22, 2024
CONSTRUCTION DOCUMENTS

DRAWN: ALB DATE: 02/22/24
CHECKED: CCA DATE: 02/22/24
PROJECT No.
T60-11110

ALTERNATE 1
ENLARGED PLAN VIEWS
& INT. ELEVATIONS
SHEET 1 of 2

A4.04



- ### GENERAL INTERIOR ELEVATION NOTES

1. FURNITURE AND EQUIPMENT ARE SHOWN FOR REFERENCE ONLY. OWNER SHALL PROVIDE FURNITURE AND EQUIPMENT.
2. PROVIDE PIPE PROTECTORS AT ALL EXPOSED SUPPLY AND WATER PIPING.
3. REFER TO A5.01 FOR PARTITION TYPES.
4. REFER TO A5.02 FOR CASEWORK DETAILS.

CASEWORK FINISH LEGEND	
NOTE NUMBER	DESCRIPTION
PL1	FORMICA - NATURAL WHITE - SCULPTED FINISH - 918-SP
PL2	FORMICA - FOSSIL WATT - MATTE COLLECTION - 5349-58
PL3	FORMICA - OTTER - GLOSS COLLECTION - 3202-90
PL4	FORMICA - EARTHEN WARP - MATTE COLLECTION - 5880-58
PL5	FORMICA - FOSSIL - SCULPTED FINISH - 5349-SP
PL6	FORMICA - WHEAT STRAND - MATTE COLLECTION - 6212-58
SS1	FORMICA - BIANCO MINERAL - DESIGNER SERIES
SS2	FORMICA - LUNA SAND - CLASSIC SERIES

THRASHER

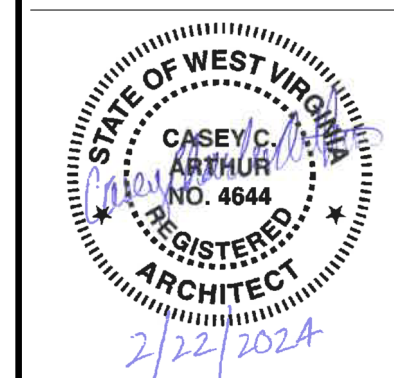
600 WHITE OAKS BLVD.
P.O. BOX 940
BRIDGEPORT, WV 26330

P (304) 624-4108
F (304) 624-7831

www.thethrashergroup.com

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**MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS**

MARSHALL HEALTH

SCOTT DEPOT, WV

FEBRUARY 22, 2024

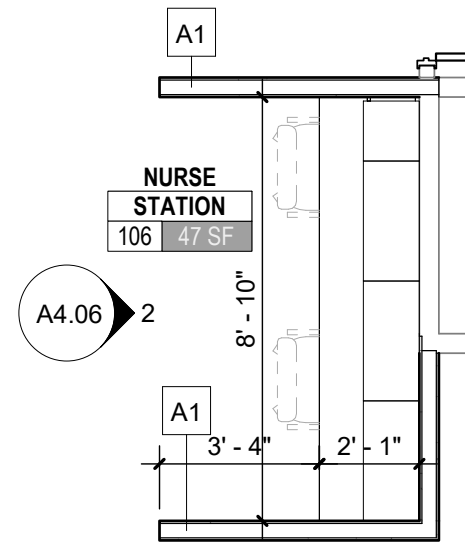
CONSTRUCTION DOCUMENTS

DRAWN: ALB DATE: 02/22/24
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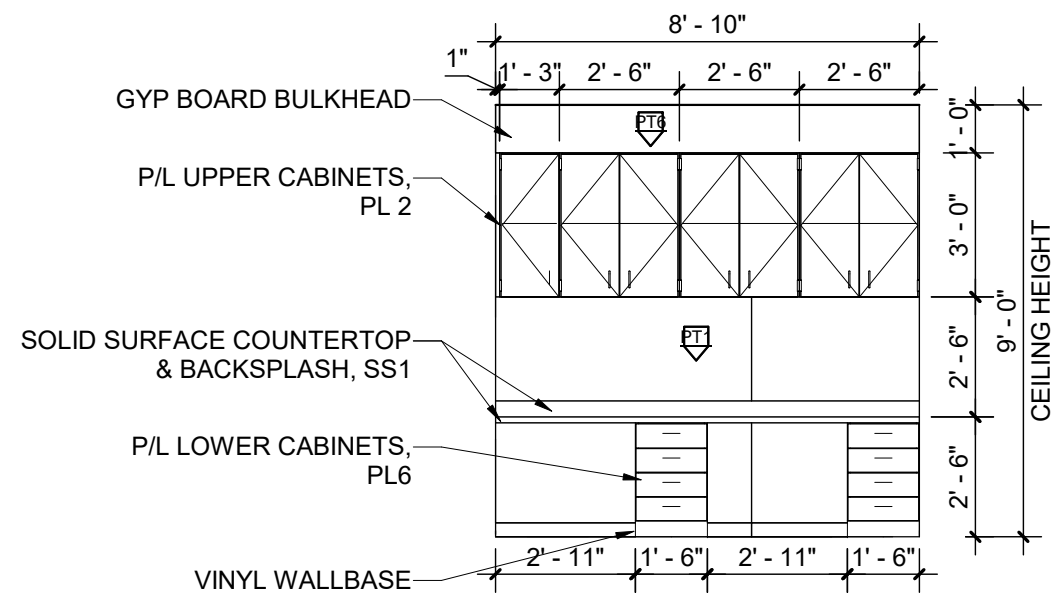
PROJECT No. T60-11110

ALTERNATE 1
ENLARGED PLAN VIEWS
& INT. ELEVATIONS

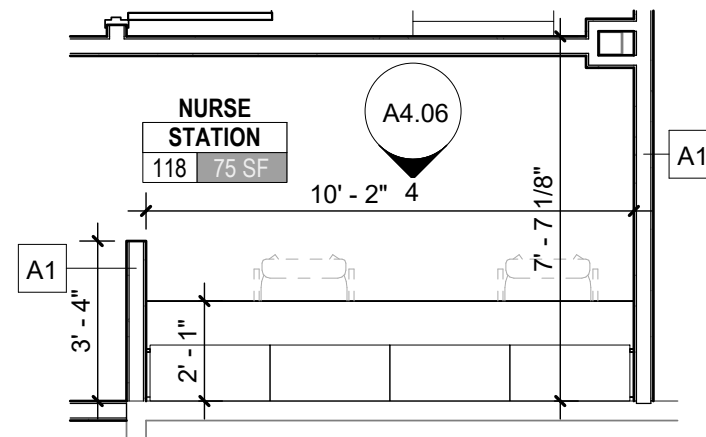
A4.05



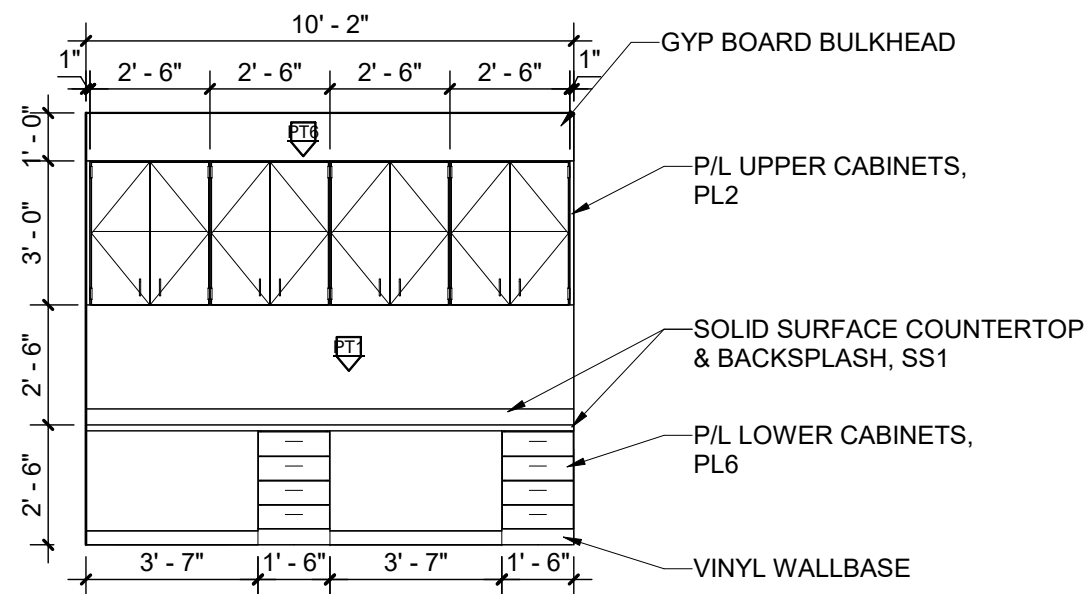
1 ENLARGED FLEXIBLE CLINIC NURSE STATION 106
A4.06 1/4" = 1'-0"



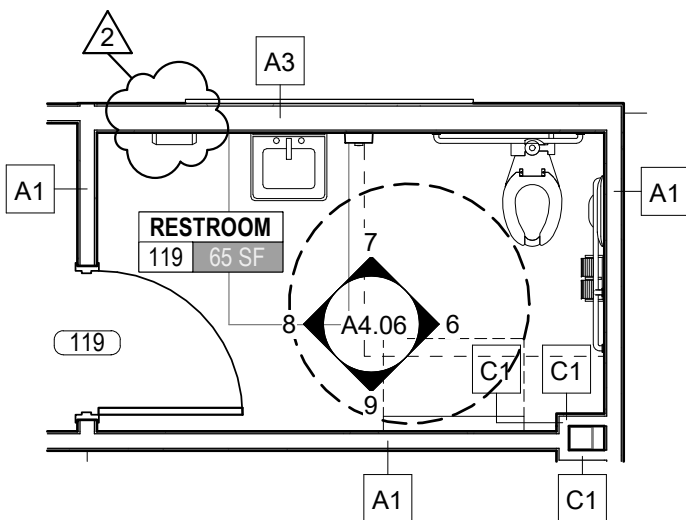
2 FLEXIBLE CLINIC NURSE STATION 106 ELEVATIONS
A4.06 1/4" = 1'-0"



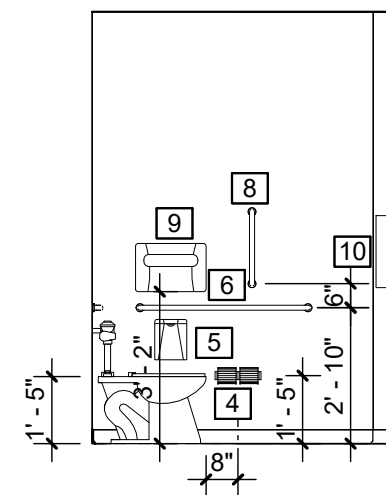
3 ENLARGED FLEXIBLE CLINIC NURSE STATION 118
A4.06 1/4" = 1'-0"



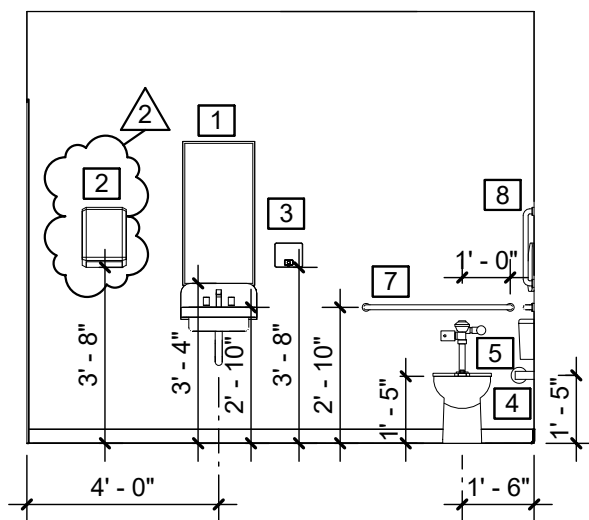
4 FLEXIBLE CLINIC NURSE STATION 118 ELEVATIONS
A4.06 1/4" = 1'-0"



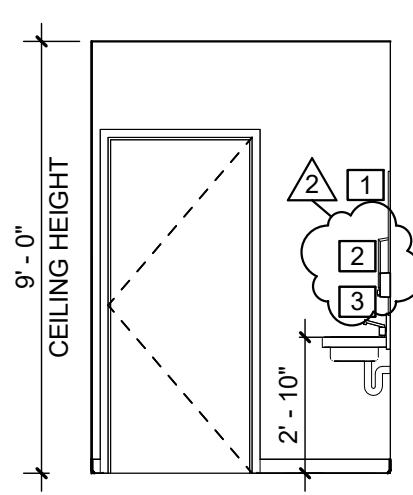
5 ENLARGED RESTROOM 119
A4.06 1/4" = 1'-0"



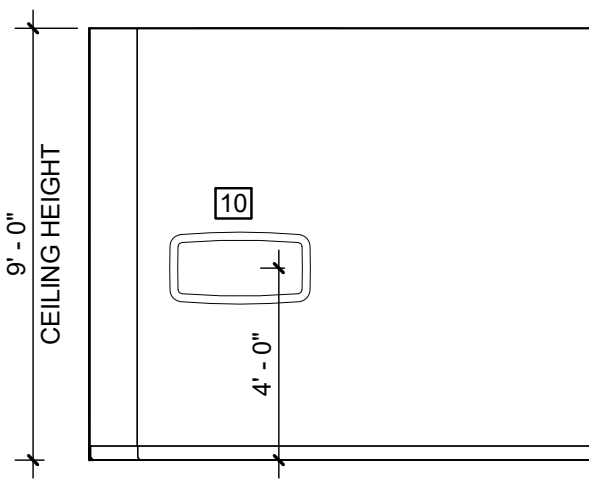
6 RESTROOM 119
A4.06 1/4" = 1'-0"



7 RESTROOM 119
A4.06 1/4" = 1'-0"



8 RESTROOM 119
A4.06 1/4" = 1'-0"



9 RESTROOM 119
A4.06 1/4" = 1'-0"

GENERAL INTERIOR ELEVATION NOTES

- FURNITURE AND EQUIPMENT ARE SHOWN FOR REFERENCE ONLY. OWNER SHALL PROVIDE FURNITURE AND EQUIPMENT.
- PROVIDE PIPE PROTECTORS AT ALL EXPOSED SUPPLY AND WATER PIPING.
- REFER TO A5.01 FOR PARTITION TYPES.
- REFER TO A5.02 FOR CASEWORK DETAILS.

CASEWORK FINISH LEGEND

NOTE NUMBER	DESCRIPTION
PL1	FORMICA - NATURAL WHITE - SCULPTED FINISH - 918-SP
PL2	FORMICA - FOSSIL WATT - MATTE COLLECTION - 5349-58
PL3	FORMICA - OTTER - GLOSS COLLECTION - 3202-90
PL4	FORMICA - EARTHEN WARP - MATTE COLLECTION - 5880-58
PL5	FORMICA - FOSSIL - SCULPTED FINISH - 5349-SP
PL6	FORMICA - WHEAT STRAND - MATTE COLLECTION - 6212-58
SS1	FORMICA - BIANCO MINERAL - DESIGNER SERIES
SS2	FORMICA - LUNA SAND - CLASSIC SERIES

RESTROOM ACCESSORY SCHEDULE

NOTE NUMBER	DESCRIPTION
1	MIRROR
2	PAPER TOWEL DISPENSER
3	SOAP DISPENSER
4	TOILET TISSUE DISPENSER
5	SANITARY NAPKIN DISPOSAL
6	42" HORIZONTAL GRAB BAR
7	36" HORIZONTAL GRAB BAR
8	18" VERTICAL GRAB BAR
9	TOILET SEAT COVER DISPENSER
10	BABY CHANGING STATION
11	HAND DRYER

NO.	BY	DATE	DESCRIPTION
2	ALB	03/15/24	ADDENDUM 2

MARSHALL HEALTH FORMER STRAYER BUILDING RENOVATIONS

MARSHALL HEALTH
SCOTT DEPOT, WV
FEBRUARY 22, 2024
CONSTRUCTION DOCUMENTSDRAWN: ALB DATE: 02/22/24
CHECKED: CCA DATE: 02/22/24

PROJECT No. T60-11110

ALTERNATE 2
ENLARGED PLAN VIEWS
& INT. ELEVATIONS

A4.06

BASE BID DOOR, FRAME, & HARDWARE SCHEDULE											
#	TYPE MARK	DOORS				FRAMES			ASSEMBLY		
		WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	RATING	ACCESS CONTROLS	HARDWARE
102	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	02
103	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	02
144	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
145	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
146A	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	04
147	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
148A	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	06
148B	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	11
149	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	06
150	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	06
151	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	06
152A	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	12
152B	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	12
153	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
154A	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	12
154B	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	11
155	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	01
156	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	01
158	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
159	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
159A	F	2'-6"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	16
160	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
161	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
162	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
163	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	02
164	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	01
165	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	13
166	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	16
167	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	17
168	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	17
169	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	16

EXISTING DOOR, FRAME, & HARDWARE SCHEDULE											
#	TYPE MARK	DOORS				FRAMES			ASSEMBLY		
		WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	RATING	ACCESS CONTROLS	HARDWARE
101	PFG	6'-0"	8'-0"	ALUM.	ANOD.	1	ALUM.	ANOD.		Yes	15
146B	FG	3'-0"	8'-0"	ALUM.	ANOD.	1	ALUM.	ANOD.		Yes	14

NOTE 1: PATCH PREVIOUS OPENING AND HEADER. MATCH EXISTING ASSEMBLY FOR TALLER DOOR.

ALTERNATE 1 DOOR, FRAME, & HARDWARE SCHEDULE											
#	TYPE MARK	DOORS				FRAMES			ASSEMBLY		
		WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	RATING	ACCESS CONTROLS	HARDWARE
120	PFG	6'-0"	7'-0"	ALUM.	ANOD.	1	ALUM.	ANOD.		Yes	08
121	PFG	6'-0"	7'-0"	ALUM.	ANOD.	1	ALUM.	ANOD.		No	09
123A	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		Yes	10
123B	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		Yes	11
124	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	03
125	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	03
126	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	03
127	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	03
128	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	03
129	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	03
131	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	03
132	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	07
133	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	03
134	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	06
135	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD		No	05
136	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	02
137	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
138	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
139	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
141	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
142	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
143	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	02

2"

2"

2"

SEE SCHEDULE

SEE SCHEDULE

1

1 1/4" = 1'-0"

FRAME TYPE LEGEND

3 5/8" METAL STUD WALL

BATT INSULATION

5/8" GYPSUM WALL BOARD

BOX BEAM HEADER

STANDARD HOLLOW METAL FRAMING

WOOD DOORS

1 1/2" = 1'-0"

DOOR TYPE LEGEND

WOOD DOOR

SEALANT

1 1/2" = 1'-0"

DOOR TYPE LEGEND

10"

10"

10"

PAIR FULL GLASS

F FLUSH

FG FULL GLASS

1 1/2" = 1'-0"

DOOR TYPE LEGEND

WOOD DOOR

SEALANT

1 1/2" = 1'-0"

DOOR TYPE LEGEND

ALTERNATE 2 DOOR, FRAME, & HARDWARE SCHEDULE											
#	TYPE MARK	DOORS				FRAMES			ASSEMBLY		
		WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	RATING	ACCESS CONTROLS	HARDWARE
104A	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	10
104B	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	11
105	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	06
107	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	06
108	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
109	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
110	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
111	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
112	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	05
113	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
114	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
115	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	02
116	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	03
119	F	3'-0"	7'-0"	WOOD	STAINED	1	H.M.	PTD	45 MIN	No	01

9 ALT. 1 WINDOW ELEVATIONS
1/4" = 1'-0"

7 DOOR THRESHOLD DETAILS - INT. - H.M.
1 1/2" = 1'-0"

5 DOOR THRESHOLD DETAILS - EXT. - ALUM.
1 1/2" = 1'-0"

6 DOOR THRESHOLD DETAILS - INT. - ALUM.
1 1/2" = 1'-0"

ALT. 1 WINDOW SCHEDULE		
TYPE	ALUM.	GLAZING TYPES
A	ALUM.	G1
B	ALUM.	G2
C	ALUM.	G2

GLAZING TYPES:
G1 INSULATED EXTERIOR, TEMPERED, TINTED, 1" OVERALL THICKNESS.
G2 INSULATED, TEMPERED, CLEAR, 1" OVERALL THICKNESS.

8 STOREFRONT DOOR DETAIL
1 1/2" = 1'-0"

NO.	BY	DATE	DESCRIPTION
1	ALB	03/12/24	ADDENDUM 1
2	ALB	03/15/24	ADDENDUM 2

MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS

MARSHALL HEALTH
SCOTT DEPOT, WV
FEBRUARY 22, 2024

CONSTRUCTION DOCUMENTS

DRAWN: ALB

CHECKED: CCA

PROJECT No.

DATE: 02/22/24

DATE: 02/22/24

T60-11110

DOOR & WINDOW
SCHEDULES & DETAILS

SHEET No.

A6.01

ROOM #

ROOM NAME

FLOOR FINISH

BASE

NORTH

EAST

SOUTH

WEST

CEILING HEIGHT

CEILING FINISH

REMARKS

101	CORRIDOR	FL3, FL4, FL5	WB1	PT1, PT5, PT7	PT1, PT4, PT5	PT1, PT2	PT1	9'-0"	ACT	
102	ELECTRICAL	FL1	WB2	PT1	PT1		PT1	EXP.	N/A	
103	DATA	FL1	WB2	PT1	PT1	PT1	PT1	EXP.	N/A	
104	CORRIDOR	FL3, FL4, FL5	WB1	PT1	PT1	PT1	PT1, PT5	9'-0"	ACT	
105	OFFICE	FL2	WB1	PT3	PT1	PT1	PT1	9'-0"	ACT	
106	NURSE STATION	FL3, FL4, FL5	WB1	PT1	PT1, PT6	PT1	PT1	9'-0"	ACT	
107	OFFICE	FL2	WB1	PT3	PT1	PT1	PT1	9'-0"	ACT	
108	EXAM	FL3, FL4, FL5	WB1	PT1, PT6	PT1	PT1	PT1	9'-0"	ACT	
109	EXAM	FL3, FL4, FL5	WB1	PT1, PT6	PT1	PT1	PT1	9'-0"	ACT	
110	DIRTY	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
111	EXAM	FL3, FL4, FL5	WB1	PT1	PT1	PT1, PT6	PT1	9'-0"	ACT	
112	CLEAN	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
113	EXAM	FL3, FL4, FL5	WB1	PT1	PT1	PT1, PT6	PT1	9'-0"	ACT	
114	EXAM	FL3, FL4, FL5	WB1	PT1, PT6	PT1	PT1	PT1	9'-0"	ACT	
115	SPRINKLER	FL8	WB2	PT1	PT1	PT1	PT1	EXP.	N/A	
116	EXAM	FL3, FL4, FL5	WB1	PT1	PT1	PT1, PT6	PT1	9'-0"	ACT	
117	VITALS	FL3	WB1	PT1	PT1	PT6	PT1	9'-0"	ACT	
118	NURSE STATION	FL3, FL4, FL5	WB1	PT1	PT1	PT1, PT6	PT1	9'-0"	ACT	
119	RESTROOM	FL7	WB1	T2	PT1	PT1	PT1	9'-0"	GWB	
120	VESTIBULE	FL6	WB3	PT1	PT1	PT1	PT1	9'-0"	GWB	
121	WAITING	FL1	WB1	PT1	PT2, PT7	PT1, T1	PT6	9'-0"	ACT	
122	RECEPTION/CHECKOUT	FL2	WB1	PT1	T1, PT2, PT6	PT1	PT1	VARIES	VARIES	
123	CORRIDOR	FL3, FL4, FL5	WB1	PT1, PT4	PT1	PT1	PT1	9'-0"	ACT	
124	EXAM	FL3, FL4, FL5	WB1	PT1	PT1, PT6	PT1	PT1	9'-0"	ACT	
125	EXAM	FL3, FL4, FL5	WB1	PT1	PT1, PT6	PT1	PT1	9'-0"	ACT	
126	EXAM	FL3, FL4, FL5	WB1	PT1	PT1, PT6	PT1	PT1	9'-0"	ACT	
127	EXAM	FL3, FL4, FL5	WB1	PT1	PT1	PT1	PT1, PT6	9'-0"	ACT	
128	EXAM	FL3, FL4, FL5	WB1	PT1	PT1	PT1	PT1, PT6	9'-0"	ACT	
129	EXAM	FL3, FL4, FL5	WB1	PT1	PT1, PT6	PT1	PT1	9'-0"	ACT	
130	NURSE STATION	FL3, FL4, FL5	WB1	PT1	PT1, PT6	PT1	PT1, PT6	VARIES	VARIES	
131	EXAM	FL3, FL4, FL5	WB1	PT1	PT1	PT1	PT1, PT6	9'-0"	ACT	
132	OFFICE	FL2	WB1	PT1	PT1	PT3	PT1	9'-0"	ACT	
133	EXAM	FL3, FL4, FL5	WB1	PT1	PT1, PT6	PT1	PT1	9'-0"	ACT	
134	PROCESSING	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
135	CLEAN	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
136	CRYO	FL3	WB1	PT1	PT1	PT1	PT1	9'-0"	ACT	
137	PROCEDURE	RS1	RS1	PT1	PT1, PT6	PT1	PT1	9'-0"	ACT	
138	MEDS	FL3	WB1	PT1	PT1	PT1	PT1	9'-0"	ACT	
139	PROCEDURE	RS1	RS1	PT1	PT1, PT6	PT1	PT1	9'-0"	ACT	
140	NURSE STATION	FL3, FL4, FL5	WB1	PT1	PT1	PT1	PT1, PT6	9'-0"	ACT	
141	PROCEDURE	RS1	RS1	PT1	PT1	PT1, PT6	PT1	9'-0"	ACT	
142	MOHS LAB	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
143	LAB SUPPLY	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
144	STORAGE	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
145	DIRTY	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
146	STAFF ENTRY	FL6	WB3	PT1	PT1	PT1	PT3	9'-0"	ACT	
147	STORAGE	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
148	RECEIVING/ACESSIONING	FL3	WB1	PT1	PT1	PT1	PT1	9'-0"	ACT	
149	TOXICOLOGY TECH WORKROOM	FL3	WB1	PT1	PT1	PT1	PT1	9'-0"	ACT	
150	TOXIC COORD	FL2	WB1	PT1	PT3	PT1	PT1	9'-0"	ACT	
151	TOXICOLOGY DIRECTOR	FL2	WB1	PT1	PT3	PT1	PT1	9'-0"	ACT	
152	TOXICOLOGY LAB	FL3, FL1	WB2	PT1	PT1, PT6	PT1	PT1	9'-0"	ACT	
153	STORAGE	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
154	CORRIDOR	FL3, FL4, FL5	WB1	PT1	PT1, PT4	PT1	PT1	9'-0"	ACT	
155	RESTROOM	FL7	WB1	PT1	PT1	PT1	T2	9'-0"	GWB	
156	RESTROOM	FL7	WB1	PT1	T2	PT1	PT1	9'-0"	GWB	
157	NURSE STATION	FL3, FL4, FL5	WB1	PT1	PT1	PT1	PT1, PT6	9'-0"	ACT	
158	EXAM	FL3, FL4, FL5	WB1	PT1, PT6	PT1	PT1	PT1	9'-0"	ACT	
159	CLEAN	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
159A	GAS STORAGE	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
160	EXAM	FL3, FL4, FL5	WB1	PT1, PT6	PT1	PT1	PT1	9'-0"	ACT	
161	DIRTY	FL3	WB2	PT1	PT1	PT1	PT1	9'-0"	ACT	
162	EXAM	FL3, FL4, FL5	WB1	PT1	PT1	PT1, PT6	PT1	9'-0"	ACT	
163	MECHANICAL	FL8	WB2	PT1	PT1	PT1	PT1	EXP.	N/A	
164	RESTROOM	FL7	WB1	PT1	PT1	PT1	T2	9'-0"	GWB	
165	BREAK ROOM	FL3, FL5	WB1	PT1	PT1	PT1	PT1	9'-0"	ACT	
166	STORAGE	FL8	WB2	EX	PT1	PT1	PT1	EXP.	N/A	
167	RESTROOM	FL7	WB1	PT1	T2	PT1	T2	9'-0"	EX	
168	RESTROOM	FL7	WB1	PT1	T2	PT1	T2	9'-0"	EX	
169	H.K.	FL1	WB2	PT1	PT1	PT1	PT1	EXP.	N/A	

1

RECEPTION/CHECKOUT 122

2

RECEPTION/CHECKOUT 122

3

RECEPTION/CHECKOUT 122

7

VESTIBULE 120 FLOOR FINISH

4

TYPICAL EXAM FLOOR PATTERN 1

5

TYPICAL EXAM FLOOR PATTERN 2

6

TYPICAL RESTROOM TILE PATTERN

8

STAFF ENTRY 146 FLOOR FINISH

GENERAL FINISH NOTES

1. FLOOR FINISH CONTINUES UNDER ALL CASEWORK, OPEN COUNTERS, FURNITURE, FIXTURES AND EQUIPMENT.

2. WHERE FLOOR MATERIAL CHANGES IN DOORWAYS, PLACE TRANSITION UNDERNEATH DOOR LEAF.

3. SEE CASEWORK ELEVATIONS FOR WALL FINISH LOCATIONS.

4. ALL CEILING PAINT TO BE FLAT FINISH.

FLOOR FINISH LEGEND

FL1

FL2

FL3

FL4

FL5

FL6

FL7

FL8

RS1

FINISH LEGEND

NOTE NUMBER	DESCRIPTION
FL1	PATCRAFT - CONSTRUKT - STUDIO - BEACH HAUS 00173
FL2	PATCRAFT - CONSTRUKT - STUDIO - CONCRETE MIX 00107
FL3	PATCRAFT - TYPOGRAPHY - TYPEFACE - SCRIPT 00530
FL4	PATCRAFT - TYPOGRAPHY - LETTERPRESS - UPPERCASE 00380
FL5	PATCRAFT - TYPOGRAPHY - TYPEFACE - BASELINE 00100
FL6	FLORIDA PORCELAIN TILES - SAND CASTLE - 12"X24"
FL7	STONE PEAK PORCELAIN TILES - CRYSTAL COLLECTION - COLONIAL WHITE - 6"X24"
FL8	SEALED CONCRETE
PT1	SW 7009 PEARLY WHITE - STAIN
PT2	SW 7654 LATTICE - STAIN
PT3	SW 6204 SEA SALT - STAIN
PT4	SW 6206 OYSTER BAY - STAIN
PT5	SW 6212 QUIETUDE - STAIN
PT6	SW 9137 NIEBLA AZUL - STAIN
PT7	BROWN TBA
RS1	PATCRAFT - HOLISTIC SHADES - TRANQUIL 00105
T1	LUNADA BAYTILE - LUCE - INTRIGURE SILK - FIN (1-1/4"X5-1/8" - 1-1/4"X5-2/3")
T2	AMERICAN OLEAN - CLAY CANVAS - CHALK CC01 - MATTE (2) - 12"X24"
WB1	JOHNSONITE - WALLBASE - MOON ROCK - 6"
WB2	JOHNSONITE - VINYL COVE - MOON ROCK - 4"
WB3	FLORIDA PORCELAIN TILES - SAND CASTLE - 3"X24" BULLNOSE

THRASHER

600 WHITE OAKS BLVD.
P.O. BOX 940
BRIDGEPORT, WV 26330

P (304) 624-4108
F (304) 624-7831

www.thrashergroup.com

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CASEY C. THURMAN
ARCHITECT
NO. 4644
2/22/2024

ADDITION 2

03/15/24

ALB

2

NO.

BY

DATE

DESCRIPTION

MARSHALL HEALTH FORMER STRAYER BUILDING RENOVATIONS

MARSHALL HEALTH
SCOTT DEPOT, WV
FEBRUARY 22, 2024
CONSTRUCTION DOCUMENTS

DRAWN: ALB
CHECKED: CCA
PROJECT No.

DATE: 02/22/24
DATE: 02/22/24

T60-11110

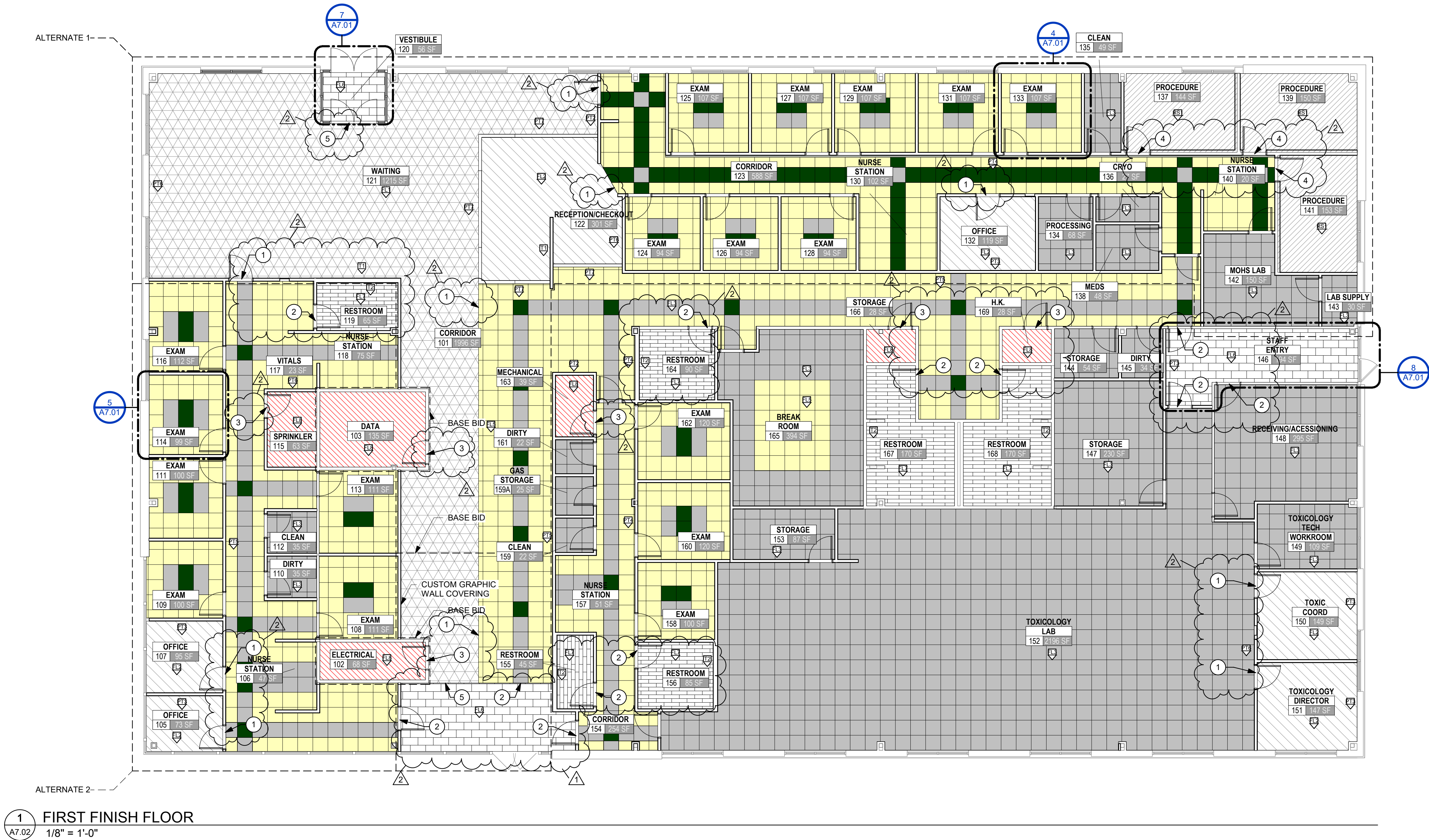
FINISHED FLOOR SCHEDULE

SHEET No.

A7.01

LAYOUT TAB FINISHED FLOOR SCHEDULE
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PLOT DATE/TIME: 3/15/2024 5:07:12 PM
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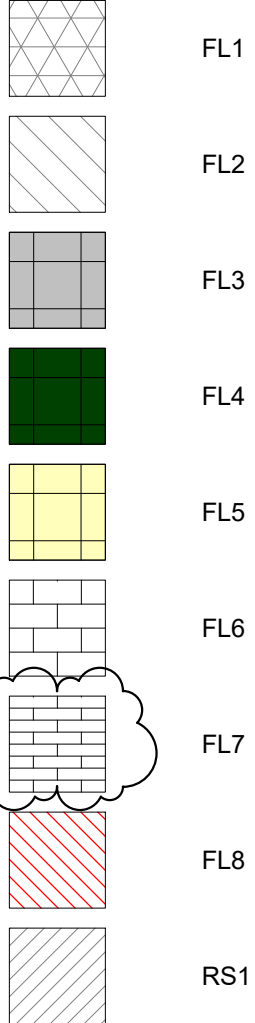


1
A7.02
FIRST FINISH FLOOR
1/8" = 1'-0"

GENERAL FINISH NOTES

1. FLOOR FINISH CONTINUES UNDER ALL CASEWORK, OPEN COUNTERS, FURNITURE, FIXTURES AND EQUIPMENT.
2. WHERE FLOOR MATERIAL CHANGES IN DOORWAYS, PLACE TRANSITION UNDERNEATH DOOR LEAF.
3. SEE CASEWORK ELEVATIONS FOR WALL FINISH LOCATIONS.
4. ALL CEILING PAINT TO BE FLAT FINISH.

FLOOR FINISH LEGEND



FINISH LEGEND

NOTE NUMBER	DESCRIPTION
FL1	PATCRAFT - CONSTRUCT - STUDIO - BEACH HAUS 00173
FL2	PATCRAFT - CONSTRUCT - STUDIO - CONCRETE MIX 00107
FL3	PATCRAFT - TYPOGRAPHY - TYPEFACE - SCRIPT 00530
FL4	PATCRAFT - TYPOGRAPHY - LETTERPRESS - UPPERCASE 00380
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FL6	FLORIDA PORCELAIN TILES - SAND CASTLE - 12"X24"
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FL8	SEALED CONCRETE
PT1	SW 7009 PEARLY WHITE - STAIN
PT2	SW 7654 LATTICE - STAIN
PT3	SW 6204 SEA SALT - STAIN
PT4	SW 6206 OYSTER BAY - STAIN
PT5	SW 6212 QUIETUDE - STAIN
PT6	SW 9137 NIEBLA AZUL - STAIN
PT7	BROWN TBA
RS1	PATCRAFT - HOLISTIC SHADES - TRANQUIL 00105
T1	LUNADA BAYTILE - LUCE - INTRIGUE SILK - FIN (1-1/4"X5-1/8" - 1-1/4"X5-2/3")
T2	AMERICAN OLEAN - CLAY CANVAS - CHALK CC01 - MATTE (2) - 12"X24"
WB1	JOHNSONITE - WALLBASE - MOON ROCK - 6"
WB2	JOHNSONITE - VINYL COVE - MOON ROCK - 4"
WB3	FLORIDA PORCELAIN TILES - SAND CASTLE - 3"X24" BULLMOSE

FLOOR FINISH TRANSITIONS

NOTE NUMBER	DESCRIPTION
1	RESILIENT TILE-TO-CARPET
2	RESILIENT TILE-TO-PORCELAIN TILE
3	RESILIENT TILE-TO-CONCRETE REDUCER STRIP
4	RESILIENT TILE-TO-RESILIENT SHEET GOODS
5	PORCELAIN TILE-TO-CARPET

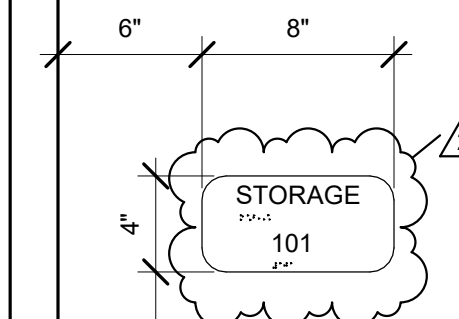
NO.	BY	DATE	DESCRIPTION
1	ALB	03/15/24	ADDENDUM 1
2	ALB	03/15/24	ADDENDUM 2



Diagram illustrating a composite sign with raised graphics and Braille. The sign is rectangular with rounded corners and contains the text "STORAGE" and "101". The sign is mounted on a wall. Labels indicate the sign is a "COMPOSITE SIGN W/ RAISED GRAPHICS AND BRAILLE" and the corners are "RADIUSED CORNERS". Dimensions are shown: the sign is 8" wide and 4" high. A note indicates "COMPOSITE GRAPHIC".



Mark	SIGN TYPE	SIGN NAME	SIGN LOCATION	NOTES
104A	1	CLINIC	R	
104B	1	CLINIC	L	
105	1	OFFICE	R	
107	1	OFFICE	R	
108	1	EXAM	L	
109	1	EXAM	R	
110	1	DIRTY	L	
111	1	EXAM	L	
112	1	CLEAN	R	
113	1	EXAM	R	
114	1	EXAM	R	
115	1	SPRINKLER	R	
116	1	EXAM	R	
119	2	RESTROOM	L	



A8.01

ELECTRICAL POWER NOTES

- A REFER TO SHEET E-001 AND E-002 FOR SPECIFICATIONS SYMBOLS AND ABBREVIATIONS.
- B ALL BOLDDED/SOLID WORK SHOWN ON THIS PLAN SHALL BE NEW U.O.N.
- C REFER TO RISER DIAGRAM AND BRANCH CIRCUIT SCHEDULE FOR REEED AND BRANCH CIRCUIT CONDUCTOR SIZES U.O.N.
- D PROVIDE DEDICATED 120V/20A CIRCUITS AS NEEDED FOR ACCESS CONTROL PANEL AND DOOR OPERATING HARDWARE. COORDINATE WORK WITH SECURITY DRAWINGS.
- E REFER TO ARCHITECTURAL/INTERIOR DRAWINGS FOR EXACT LOCATION AND HEIGHT OF ELECTRICAL DEVICES (INCLUDING RECEPTACLES SHOWN IN OR IN VICINITY OF CASEWORK) AND TELE-DATA DEVICES.
- F CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS/SLABS AS REQUIRED WHERE DEVICES ARE INSTALLED. PATCHES SHALL MEET OR EXCEED THE FIRE RATING OF THE WALL/SLAB BEING PATCHED. SEAL ALL PENETRATIONS OF BUILDING ENVELOPE WATER-TIGHT AS APPROVED BY THE ARCHITECT AND ENGINEER.
- G FOR CARD READER(S):
- REFER TO ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE SPECIFICATIONS.
- PROVIDE CONDUIT, BOXES AND ASSOCIATED FITTINGS TO ALLOW OTHERS TO INSTALL A SECURITY SYSTEM AFTER WALL CLOSE-IN.
- COORDINATE WORK WITH THE PROVIDER OF THE SECURITY SYSTEM.
- CONCEAL CONDUITS, RECESS-MOUNT BOXES.
- H CONTRACTOR SHALL X-RAY THE SLAB AT EACH POKE-THRU LOCATION PRIOR TO CORE-DRILLING TO VERIFY NO OBSTRUCTIONS EXIST. SUBMIT RESULTS OF X-RAY TO BUILDING STRUCTURAL ENGINEER.
- I CONTRACTOR SHALL COORDINATE AUDIO VISUAL (A/V) WORK WITH THE A/V VENDOR. REFER TO A/V DRAWINGS FOR ADDITIONAL INFORMATION ON THE SCOPE OF WORK PRIOR TO BIDDING.
- J REPLACE ALL EXISTING SWITCHES, POWER AND TELE/DATA RECEPTACLES WITH NEW. NEW DEVICE/COVERPLATE COLOR SHALL MATCH EXISTING (OR BE WHITE DECORA STYLE).
- K CIRCUIT NUMBERS SHOWN ARE FOR IDENTIFICATION PURPOSE ONLY. THE ACTUAL CIRCUIT NUMBER IN EXISTING PANEL MAY VARY DEPENDING ON THE AVAILABLE SPARES THAT ARE CREATED BY DEMOLITION WORK.
- L FOUR-CIRCUIT TYPE SYSTEMS FURNITURE HAS BEEN USED AS BASIS OF DESIGN FOR THIS SCOPE OF WORK. CONTRACTOR SHALL COORDINATE WORK WITH THE SYSTEMS FURNITURE VENDOR TO CONFIRM FINAL SELECTION AND TYPE OF FURNITURE BEFORE STARTING NEW WORK. INFORM ENGINEER OF ANY DISCREPANCIES IN FURNITURE CIRCUITING OPTIONS.
- M ALL RELOCATED MECHANICAL/PLUMBING EQUIPMENT INCLUDING VAV BOXES, WHICH REQUIRE ELECTRICAL POWER CONNECTION SHALL BE CONNECTED TO THE EXISTING CIRCUIT THAT PREVIOUSLY SERVED THEM. EXTEND CIRCUIT TO THE NEW EQUIPMENT LOCATION AS NECESSARY AND CONNECT VIA THE RELOCATED DISCONNECT SWITCH. COORDINATE WORK WITH MECHANICAL/PLUMBING PLANS.
- N FOR RECEPTACLES AND EQUIPMENT CIRCUITS SERVING PATIENT CARE AREAS, INCLUDING EXAM ROOMS, CONTRACTOR TO ENSURE GROUNDING MEETS REQUIREMENTS IN NEC ARTICLE 517.13.
- O PLUG LOAD CONTROLLED RECEPTACLES, INCLUDING SYSTEMS FURNITURE RECEPTACLES SHALL BE MARKED PER NEC REQUIREMENTS.

KEYNOTES

- E10 DEDICATED CIRCUIT FOR NEW FIRE ALARM CONTROL PANEL. COORDINATE WITH SYSTEM PLAN E-203
- E11 DEDICATED CIRCUIT FOR NEW SECURITY / ACCESS CONTROL PANEL. REFER TO SYSTEM PLAN E-203 FOR MORE INFORMATION.
- E12 DEDICATED CIRCUIT FOR NEW LIGHTING ZONE CONTROLLER. REFER TO LIGHTING PLAN E-201 FOR MORE INFORMATION.
- E13 CONTRACTOR TO ENSURE WORK DONE IN STORAGE ROOM 153 IS IN ACCORDANCE WITH NEC ART. 501 REQUIREMENTS FOR A CLASS 1, DIVISION 2 HAZARDOUS LOCATION. (TYPICAL OF ALL WORK DONE IN ROOM)
- E17 PROVIDE POWER POLE LEGRAND WIREMOLD 'NP800' FOR ROUTING DESK-MOUNTED RACEWAY WIRING ABOVE CEILING. PROVIDE WHIP CONNECTION TO DESK-MOUNTED RACEWAY.
- E20 DEDICATED CIRCUIT FOR NEW NURSE CALL SYSTEM POWER SUPPLY. REFER TO E-203 FOR MORE INFORMATION.
- E22 NEW RECEPTACLE TO REUSE EXISTING CIRCUIT MADE SPARE DURING DEMOLITION.
- E23 CONNECTED CIRCUIT SHALL HAVE GFI-TYPE OVERCURRENT PROTECTION AT PANEL.
- E24 TRAPEZE MOUNTED TRANSFORMER. REFER TO DETAIL 2/E402.
- E28 PROVIDE CIRCUIT FOR NEW AUTODOORS. COORDINATE WITH ELECTRICAL SYSTEMS PLANS.
- E32 DEDICATED RECEPTACLE FOR NEW OXYGEN SENSOR. MOUNT AT HEIGHT INDICATED.
- E34 SPLIT SYSTEM INDOOR UNIT SHALL BE WIRED VIA OUTDOOR UNIT. REFER TO ROOF PLAN FOR MORE INFORMATION.
- E39 PROVIDE HARDWIRED CONNECTION TO AUTOMATIC PLUMBING FIXTURE. COORDINATE WITH PLUMBING WORK.
- E40 PROVIDE CONNECTION TO NEW GARBAGE DISPOSAL VIA NEW CONTROL SWITCH.
- E45 PROVIDE DESK MOUNTED RACEWAY LEGRAND WIREMOLD 'ALA4800' SERIES FOR MOUNTING POWER AND DATA RECEPTACLES SHOWN IN DESK. RACEWAY SHALL HAVE WHIP CONNECTION TO POWER POLE SHOWN IN DASHED LINE. COORDINATE DATA REQUIREMENTS WITH SYSTEM PLAN E-204.

- E49 PROVIDE CONNECTION TO NEW MEDGAS MANIFOLD SYSTEM FROM STANDBY BRANCH. MEDGAS SYSTEM IS CATEGORY 3 AS DEFINED BY NFPA 99.
- E50 PROVIDE CIRCUIT FOR NEW HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.

03/15/2024 ADDENDUM #2

2

MARSHALL HEALTH FORMER
STRAYER BUILDING RENOVATIONS

MARSHALL HEALTH NETWORK

SCOTT DEPOT, WV

FEBRUARY 22, 2024

CONSTRUCTION DOCUMENTS

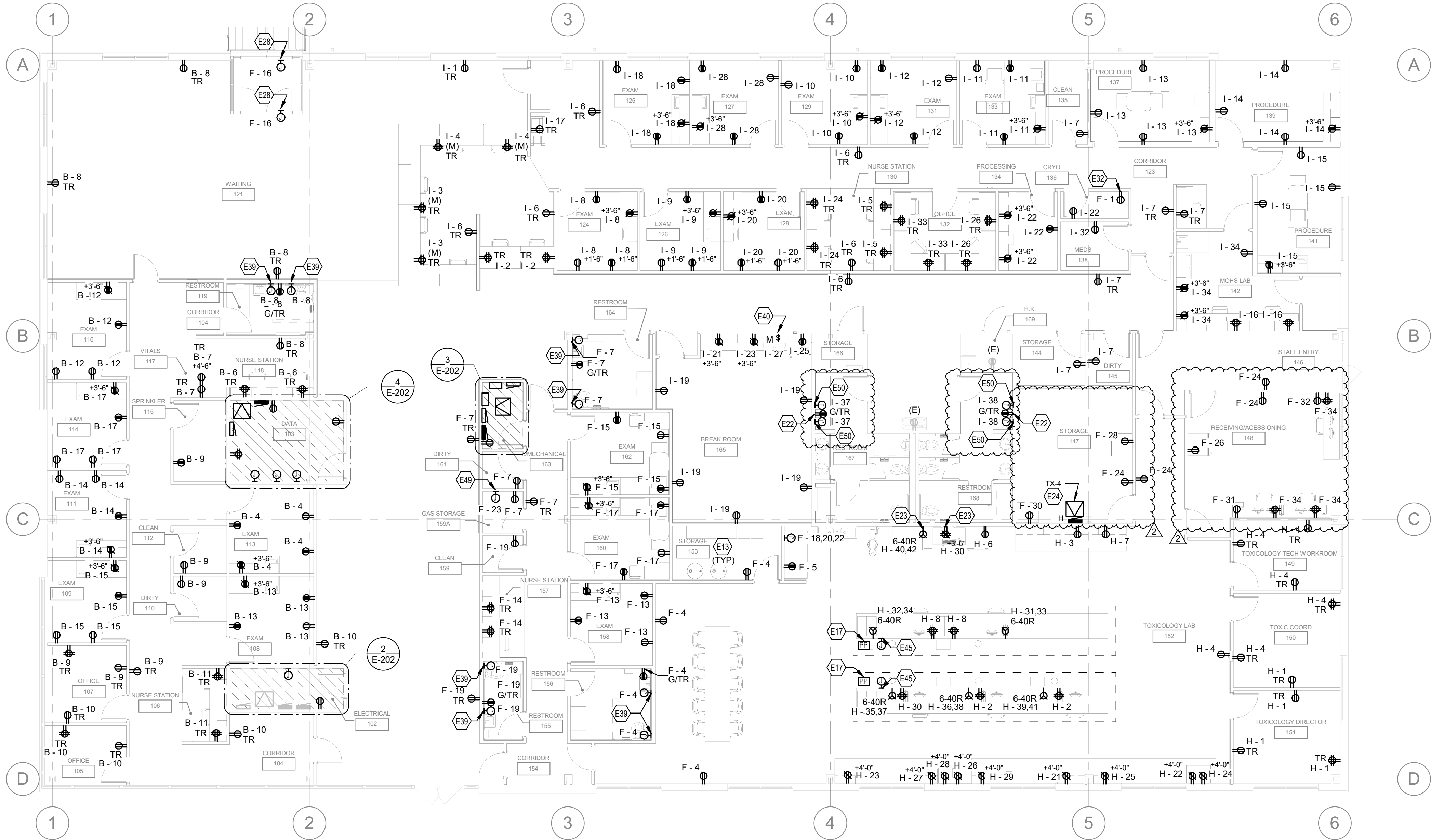
DRAWN: JMB DATE: 02/22/24
CHECKED: AMK DATE: 02/22/24
PROJECT No.

T80-11110

ELECTRICAL POWER
PLAN

SHEET No.

E-202



PANEL: I		MAINS TYPE: 150 A MCB										SCCR (kA): 10 kAIC							
VOLTAGE: 208Y/120V, 3P, 4W		SPD:										AVAIL FAULT CURRENT (kA):							
AMPERES: 150 A		MOUNTING: SURFACE										SUPPLY FROM: TX-2							
CIRCUIT DESCRIPTION	WIRE	GND	C	OPC	P	CKT	A		B		C		CKT	P	OPC	C	GND	WIRE	CIRCUIT DESCRIPTION
RECS RM 160,227				20	1	1	0.2	0.4					2	1	20				RECS RECEPTION
RECS DESK RECEPTION				20	1	3			1.1	1.1			4	1	20				RECS DESK RECEPTION
RECS DESK NURSE RM 130				20	1	5					1.1	1.1	6	1	20				RECS DERMO COR. RM 123
RECS RM 238,239				20	1	7	1.1	1.4					8	1	20				RECS EXAM RM 124
RECS EXAM RM 126				20	1	9			1.4	1.4			10	1	20				RECS EXAM RM 129
RECS EXAM RM 133				20	1	11					1.4	1.4	12	1	20				RECS EXAM RM 131
RECS PROCEDURE RM 137				20	1	13	1.1	1.1					14	1	20				RECS PROCEDURE RM 139
RECS PROCEDURE RM 141				20	1	15			1.1	1.1			16	1	20				RECS LAB RM 142
DED REC PRINTER RECEPTION				20	1	17					1.2	1.4	18	1	20				RECS EXAM RM 125
RECS BREAK RM 165				20	1	19	0.9	1.4					20	1	20				RECS EXAM RM 128
DED REC COUNTER RM 165				20	1	21			0.2	1.1			22	1	20				RECS RMS 134, 136
DED REC COUNTER RM 165				20	1	23					0.2	1.1	24	1	20				RECS DESK NURSE RM 130
DED REC REFER RM 165				20	1	25	0.2	0.4					26	1	20				RECS OFFICE RM 132
DISPOSAL BREAK RM 165				20	1	27			0.5	1.4			28	1	20				RECS EXAM RM 127
CU-1 OUTDOOR				20	2	29					1.4	0.4	30	1	20				EXHAUST FANS DERMATOLOGY
RECS OFFICE RM 132				20	1	33			0.4	1.3			34	1	20				DED REC RM 138
SPARE	--	--	--	20	1	35					0.0	0.0	36	1	20	--	--	--	RECS LAB RM 142
HAND DRYER RR 167				20	1	37	3.0	3.0					38	1	20				HAND DRYER RR 168
SPARE	--	--	--	20	1	39			0.0	0.0			40	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	41					0.0	0.0	42	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	43	0.0	0.0					44	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	45			0.0	0.0			46	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	47					0.0	0.0	48	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	49	0.0	0.0					50	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	51			0.0	0.0			52	1	20	--	--	--	SPARE
SPARE	--	--	--	20	1	53</													

PANEL: F		MAINS TYPE: 150 A MCB										SCCR (KA): 10 KAIC									
VOLTAGE: 208Y/120V,3P,4W		SPD:										AVAIL FAULT CURRENT (kA):									
AMPERES: 150 A		MOUNTING: SURFACE										SUPPLY FROM: TX-3									
CIRCUIT DESCRIPTION	WIRE	GND	C	OCB	P	CKT	A		B		C		CKT	P	OCB	C	GND	WIRE	CIRCUIT DESCRIPTION		
OXYGEN SENSOR CRYO...				20	1	1	0.2	1.2					2	1	20				DED QUAD RM 186		
EXHAUST FANS TOXICOLOGY				20	1	3			0.9	0.8			4	1	20				RECS RM 236,257,259		
DED REC WATER DI SYSTEM RM...				20	1	5					1.0	0.4	6	1	20				EF-12 MEDGAS FAN ROOF		
RECS RM 185,223,224,229				20	1	7	1.2	0.5					8	1	20				FA CP RM 186		
LTG ZONE CTRL RM 185				20	1	9			0.5	0.5			10	1	20				SEC CP RM 186		
NURSE CALL POWER RM 186				20	1	11					0.3	0.7	12	1	20				RECS RM 186		
RECS EXAM RM 158				20	1	13	1.1	1.1					14	1	20				RECS DESK RM 225		
RECS EXAM RM 162				20	1	15			1.1	1.0			16	1	20				AUTODOORS WAITING RM 227		
REC EXAM RM 160				20	1	17					1.1	1.4	18								
RECS RM 102, 154, 155, 161, 163				20	1	19	0.8	1.4					20	3	20				RODI WATER LAB RM 152		
EF-2 CRYO FAN ROOF				20	1	21			0.4	1.4			22								
MEDGAS MANIFOLD RM 159A				20	1	23					0.5	0.7	24	1	20				RECS RM 168,173,254		
SPARE	--	--	--	20	1	25	0.0	1.2					26	1	20				DED REC FREEZER RM 168		
SPARE	--	--	--	20	1	27			0.0	1.2			28	1	20				DED REC REFER RM 173		
SPARE	--	--	--	20	1	29					0.0	1.2	30	1	20				DED REC FREEZER RM 173		
DED REC PRINTER RM 168				20	1	31	0.2	0.2					32	1	20				DED REC PRINTER RM 168		
SPACE	--	--	--	1	33				--	1.1			34	1	20				RECS QUADS RM 168		
SPACE	--	--	--	1	35						--	0.6	36			2			OFFICE AHU TOXICOLOGY		
BRANCH SELECTOR RM 152				20	1	37	0.4	0.6					38								
LAB AHU 4, 5, 6 TOXICOLOGY				15	2	41			0.6	0.6			40			2	15		LAB AHU 1, 2, 3 TOXICOLOGY		
											0.6	0.6	42								
TOTAL LOAD (kVA):							10.0 kVA		10.1 kVA		9.1 kVA										
TOTAL CURRENT (A):							85 A		86 A		76 A										
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS													
EQUIP		13870 VA		100.00%		13870 VA		TOTAL CONNECTED LOAD:						29 kVA							
REC		9720 VA		100.00%		9720 VA		TOTAL ESTIMATED DEMAND:						29 kVA							
HVAC		5724 VA		100.00%		5724 VA		TOTAL CONNECTED CURRENT:						81 A							
								TOTAL ESTIMATED DEMAND CURRENT:						81 A							

NOTES: WHERE NOT LISTED, WIRE AND CON

PANEL: D						MAINS TYPE: 225 A MCB							SCCR (KA): MATCH UPSTREAM							
VOLTAGE: 480Y/277V, 3P, 4W						SPD:							AVAIL FAULT CURRENT (KA):							
AMPERES: 225 A						MOUNTING: SURFACE							SUPPLY FROM: ATLS-S							
CIRCUIT DESCRIPTION	WIRE	GND	C	OCB	P	CKT	A		B	C	CKT	P	OCB	C	GND	WIRE	CIRCUIT DESCRIPTION			
LTS TOX LAB					20	1	1	2.5	0.0						2	1	20	--	--	SPPARE
SPPARE	--	--	--		20	1	3			0.0	0.0				4	1	20	--	--	SPPARE
SPPARE	--	--	--		20	1	5					0.0	0.0		6	1	20	--	--	SPPARE
SPPARE	--	--	--		20	1	7	0.0	0.0						8	1	20	--	--	SPPARE
SPPARE	--	--	--		20	1	9			0.0	0.0				10	1	20	--	--	SPPARE
SPPARE	--	--	--		20	1	11					0.0	0.0		12	1	20	--	--	SPPARE
SPPARE	--	--	--		20	1	13	0.0	0.0						14	1	20	--	--	SPPARE
SPPARE	--	--	--		20	1	15			0.0	0.0				16	1	20	--	--	SPPARE
SPPARE	--	--	--		20	1	17					0.0	0.0		18	1	20	--	--	SPPARE
SPACE	--	--	--	--	3	19	--	--							20					
					21				--	--					22	3	--	--	--	SPACE
					23						--	--			24					
SPACE	--	--	--	--	3	25	--	0.3							26					
					27			--	0.3						28	3	15			LEF ROOF
					29						--	0.3			30					
OAU-1 ROOF				15	3	31	2.2	7.3							32					
					33				2.2	7.3					34	3	40			HR-1 ROOF
					35						2.2	7.3			36					
PANEL "F" VIA TX-3 RM 229					70	3	37	10.0	15.8						38					
					39				10.1	15.7					40	3	70			PANEL "H" VIA TX-4 RM 173
					41						9.1	14.2			42					
TOTAL LOAD (KVA):								38.2 kVA		35.7 kVA		33.2 kVA								
TOTAL CURRENT (A):								139 A		130 A		120 A								
LOAD CLASSIFICATION		CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			PANEL TOTALS									
EQUIP		52998 VA			100.00%			52998 VA			TOTAL CONNECTED LOAD: 107 kVA									
LTNG		2533 VA			125.00%			3166 VA			TOTAL ESTIMATED DEMAND: 105 kVA									
REC		16200 VA			80.86%			13100 VA			TOTAL CONNECTED CURRENT: 129 A									
HVAC		35374 VA			100.00%															

PANEL: H		MAINS TYPE: 150 A MCB										SCCR (KA): 10 KAIC									
VOLTAGE: 208Y/120V,3P,4W		SPD: No										AVAIL FAULT CURRENT (KA):									
AMPERES: 150 A		MOUNTING: SURFACE										SUPPLY FROM: TX-4									
CIRCUIT DESCRIPTION	WIRE	GND	C	OCB	P	CKT	A		B		C		CKT	P	OCB	C	GND	WIRE	CIRCUIT DESCRIPTION		
RECS RM 165 166				20	1	1	1.1	0.9					2	1	20				RECS DESK FROM POLE RM 259		
DED REC MINIFREEZER RM 259				20	1	3			0.6	2.2			4	1	20				RECS RM 166 254		
SPARE	--	--	--	20	1	5					0.0	1.2	6	1	20				DED REC FRIDGE/FREEZER RM...		
DED REC MINIFRIDGE RM 259				20	1	7	0.6	0.9					8	1	20				RECS DESK FROM POLE RM 259		
SPARE	--	--	--	20	1	9			0.0	0.0			10	1	20	--	--	--	SPARE		
SPARE	--	--	--	20	1	11					0.0	0.0	12	1	20	--	--	--	SPARE		
SPARE	--	--	--	20	1	13	0.0	0.0					14	1	20	--	--	--	SPARE		
SPARE	--	--	--	20	1	15			0.0	0.0			16	1	20	--	--	--	SPARE		
SPARE	--	--	--	20	1	17					0.0	0.0	18	1	20	--	--	--	SPARE		
SPARE	--	--	--	20	1	19	0.0	0.0					20	1	20	--	--	--	SPARE		
DED REC DESK RM 152				20	1	21			0.2	0.9			22	1	20				DED REC HOOD 2 RM 152		
DED REC DESK RM 152				20	1	23					0.2	0.2	24	1	20				DED REC VAC 2 RM 152		
DED REC DESK RM 152				20	1	25	0.2	0.9					26	1	20				DED REC HOOD 1 RM 152		
DED REC DESK RM 152				20	1	27			0.4	0.2			28	1	20				DED REC VAC 1 RM 152		
DED REC DESK RM 152				20	1	29					0.4	0.9	30	1	20				RECS DESK FROM POLE RM 259		
DED REC DESK UPS 1 RM 152				40	2	31	2.8	2.8					32	2	40				DED REC DESK UPS 2 RM 152		
						33			2.8	2.8			34								
DED REC DESK UPS 3 RM 152				40	2	37	2.8	2.8			2.8	2.8	36	2	40				DED REC DESK UPS 4 RM 152		
						39							38								
DED REC DESK UPS 5 RM 152				40	2	41			2.8	2.9			40	2	40				DED REC UPS 6 RM 152		
						43					2.8	2.9	42								
SPARE	--	--	--	20	1	43	0.0	0.0					44	1	20	--	--	--	SPARE		
SPARE	--	--	--	20	1	45			0.0	0.0			46	1	20	--	--	--	SPARE		
SPARE	--	--	--	20	1	47					0.0	0.0	48	1	20	--	--	--	SPARE		
SPARE	--	--	--	20	1	49	0.0	0.0					50	1	20	--	--	--	SPARE		
SPARE	--	--	--	20	1	51			0.0	0.0			52	1	20	--					

A REFER TO SHEET E-001 AND E-002 FOR SPECIFICATIONS SYMBOLS
AND ABBREVIATIONS.

B BOLD TYPE INDICATES NEW WORK U.O.N.

C NEW CIRCUIT BREAKERS SHALL MATCH PANEL MANUFACTURER.

D EXISTING PANEL LOADS ARE ESTIMATED BY THE ENGINEER.

E REFER TO FEEDER AND BRANCH CIRCUIT SCHEDULE FOR FEEDER
AND BRANCH CIRCUIT SCHEDULE SIZES U.O.N.

F PROVIDE NEW UPDATED TYPED CIRCUIT DIRECTORY TO REFLECT
MODIFICATIONS UNDER THIS CONTRACT FOR ANY EXISTING PANEL
THAT HAS HAD CIRCUIT ADDITIONS OR MODIFICATIONS. ALL CIRCUIT
DIRECTORIES SHALL IDENTIFY CIRCUIT NUMBER, AREA NUMBER AND
ASSOCIATED LOAD DESCRIPTION.

"" DENOTES NEW GFCI TRIP CIRCUIT BREAKER.

*** DENOTES NEW GFCI CIRCUIT BREAKER.

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SCOTT DEPOT, WV
FEBRUARY 22, 2024
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