

**State of Rhode Island And Providence Plantations
3/3/11
ADDENDUM NUMBER FOUR**

RFQ # 7448230

**TITLE: ARRA-CHAFEE HALL FIRE PROTECTION UPGRADES -
URI**

Closing Date and Time: 3/17/11 at 1:45 PM (Note Change)

Per the issuance of this ADDENDUM #4 (73 pages, including the cover sheet) the following change(s) are noted:

The time period for asking questions on this Solicitation has been extended to 3/9/11 at 3:30 PM local prevailing time. Questions concerning this solicitation may be emailed to the Division of Purchases to construction@purchasing.ri.gov.

Bid Closing Date and Time has been extended:

**From: 3/8/11 at 1:45 PM
To: 3/17/11 at 1:45 PM**

Specification Change /Addition / Clarification

DOCUMENT 00900 - ADDENDA AND MODIFICATIONS #4

PART 1 – GENERAL

1.01 This document dated March 1st, 2011, 6 pages plus attachments, is issued as the fourth Addendum to the Contract Documents and becomes a part of the Project Manual.

1.02 Bid Date (please refer to addendum cover page)

1.03 ACM Remediation Plan

An Asbestos containing materials remediation plan for “URI – Chafee Hall” is attached herewith. This work is to be included as part of the base bid.

1.04 Meeting Minutes

See Pre-bid Meeting minutes dated 2/17/11 attached, 5 pages, including question answers fielded during that meeting.

1.05 Questions

The following questions were received:

A. Can we revisit the site with sub-contractors, and be able to enter the Lecture Halls and Projection Room?

Answer: The Chafee building is open to the public and is available to revisit during normal business hours. Coordination of access to Lecture Halls and the Projection Room should be handled through Peter Scalora, available at (401) 230-4401.

B. After looking through the Armstrong catalogue, the moldings shown in the Wall Section of the catalogue do not match those drawn. Who is the manufacturer of the trim moldings shown? If they are custom made extrusions, where do we purchase from? For custom shapes I believe we would need a large quantity of each shape to have extrusions made, and that could be costly.

Answer: The custom aluminum extrusions shown on the wall section details are hereby revised to standard aluminum “C” channels. Refer to specification and drawing changes issued in this addendum for material, size and application.

C. DRAWING MD1.0 SECOND FLOOR DEMO PLAN

IT SAY'S THAT DUCTWORK, DIFFUSERS, DAMPERS & HANGERS SHALL BE REMOVED THE ONLY DUCTWORK ON THIS DRAWING STATES THAT IT SHALL REMAIN AND BE REUSED, WHERE IS THE DEMO PLANS?

Answer: There are no mechanical demolition plans for the lecture hall areas. At the time of the design the existing condition mechanical drawings were not available and the ductwork is

not accessible. The scale of the work to be done should be essentially the same as the existing conditions of items to be removed. Contractors should base their bid on the quantity of the new ductwork as indicated on the plans.

D. DRAWING M1.1 THERE ARE SYMBOLS ON THE DUCTWORK THAT SAY CONNECT TO EXHISTING

DO THEY WANT ALL THE DUCTWORK, GRILLES & HANGERS REMOVED AFTER THIS SYMBOL?

Answer: The mechanical demolition scope of work should include ductwork, diffusers, hangers, and supports completely. The only existing ductwork to remain and be reused is as indicated on the plan. The existing ductwork shall be removed back to the sound-attenuators. All of the new ductwork shall originate at the sound attenuators.

E. DRAWING M1.1A IT SHOW'S THE SAME DUCTWORK LAYOUT ON DRAWING M1.1, IS THIS NEW DUCTWORK? AND IS IT ALL INTERNALLY LINED?

Answer: The HVAC system is the same for both drawing M1.1 and M1.1A. The only differences are some Architectural features in each Lecture Hall. The ductwork reflected on M1.1A and M1.1 is new and shall originate at the sound-attenuator for each area.

There is no note on the drawing calling for the installation of internal duct sound-lining to be installed in the new ductwork. The ductwork shall be connected to each of the sound-attenuators and internal sound-lining will not be connected. The only other lining called for on the drawing is for the linear diffuser boxes to be lined/insulated.

F. DRAWING M1.2 UNDER KEY NOTES #1 RELOCATE EXHISTING AC UNIT AND EXTEND PIPING. IS THIS PIPING CHILLWATER, REFRIGERATION? WHAT SIZE AND WHERE DOES IT GET RELOCATED TO?

Answer: There are A/C units in the stairway that need to be moved to clear the new doors. These are ceiling supported, stand-alone, A/C refrigerant units with no ductwork attached. The units shall be moved to clear the new door swing. The ACR piping shall be disconnected, refrigerant collected, and be reconnected as the units are moved.

G. HOW MANY UNITS ARE THERE?

Answer: There are a total of three units located in the stairway that have to be moved.

H. Alternate #2/A2.2A notes to include the projection walls (Types B + D). Are we to include the sloped ceiling as noted in Alternate #2/A5.1A, 5.2A and 5.3A? Alternate #3/A2.2A notes to include the GWB ceilings (sloped), soffits (along side walls) and framing. The soffits along the side walls noted on Details 5/A5.2A and 3+8/A5.3A are not clouded for either alternate. Should they be in the Base Bid? Please clarify.

Answer: Alternate #2 includes the sloped ceiling at the front of each lecture hall and the side soffits at each lecture hall as indicated on 1/A2.2A. Base bid ceilings are shown on 1/A2.2. Soffits at side walls are not included in the base bid.

I. Does this infill occur in all Lecture Halls? Details 4/A5.1A and 1/A5.2A show this in-fill at the Large Lecture Hall. However, Details 2, 4+7/A5.2A and Details 2, 5+7/A5.3A do not show the in-fill for all other Lecture Halls. They show only the Type D partition starting at the slope without floor in-fill. Please advise.

Answer: Projection hood floor and wall infill occurs at all (4) lecture halls as indicated on 1/A1.4A and 17A3.1A. Refer to both 16 and 17/A3.1A for infill requirements.

J. What is the required rating for the fire alarm riser cable?

Answer: The requirements are in Section 16720 – 2.05-F.

K. Concrete Guard Walls at Lecture Halls: Drawing A1.4A notes that the concrete guard walls are to be removed. Drawing A3.1A has the typical Detail 7/A3.1A for the AWP application to the existing wall. This shows the walls to remain. Please advise.

Answer: Lecture Hall Guard Walls are to remain. Only the wood caps are to be removed. The only section of concrete guard wall to be removed is an 8'-0" +/- section at the upper balcony as indicated on drawing A1.4A.

L. ACT removal in the Lecture Halls: Is there a GWB ceiling above all 1x1 ACT that is to be removed?

Answer: The exact construction of the lecture hall ceilings is unknown.

M. Construction notes on M1.0, M 1.1 and M1.1A all indicated that the existing pneumatic thermostats and control conductors(pneumatic tubing) shall be removed and then reinstalled in new locations, however in the temperature control sequence of operations on M3.0, Letter D states that the intent is for the systems operation to be verified and monitored via the campus BMS. With the existing thermostats and system, this is not possible as pneumatic devices are not capable of being monitored via the BMS DDC system. Can you offer a little clarification?

Answer: The respective thermostats and associated pneumatic tubing shall be moved to the new locations and be reconnected. The contractors can disregard the notes regarding the Building Mgt System (BMS) or any centralized controls.

N. Is there any sort of mechanical bidders list available?

Answer: There is not a mechanical bidders list.

O. Can each floor incorporate an addressable class A signal module powered and supervised by the amplifier in lieu of having an amplifier with back up amplifier per floor and stairwell. The amplifier would feed all these modules on one pair of 2 hour rated white and blue cable. These would be wired class A. The modules would only activate if the devices on that floor or floor above or floor below activate or if a programmable button is pressed to page. This would be accomplished through programming.

Answer: The riser diagram provided in the fire alarm bid documents is conceptual in nature and intends to be non-proprietary. The final configuration of the speakers and amplifiers must satisfy the Rhode Island Uniform Fire Code in order to provide floor by floor notification, required color coding, 2-hour fire resistance rated cable requirements for vertical runs and also provide the necessary back-up amplifiers for each amplifier installed. Each manufacturer may be able to satisfy these requirements by different installation methods. The arrangement shown on the conceptual riser is one means of satisfying all of these requirements. The final arrangement must also be approved by the manufacturer and UL.

1.06 Specification Changes

A. In the Table of Contents, add the following section heading:

09215 Gypsum Veneer Plaster

B. All provisions in **Document 00200 Instructions to Bidders** in conflict with Addendum #1 are superseded by that Addendum. In addition:

Delete 3.1.1 and replace with-

“3.1.1 Plans and specifications are available for download from the RI Division of Purchases website at www.purchasing.ri.gov. No deposit is required.”

Delete 3.1.2 in its entirety.

Change the paragraph number of 3.1.3 to be 3.1.2.

Delete 3.1.4 and replace with-

“3.1.3 Copies of the Bidding Documents are made available on the above terms, only through the website of the RI Division of Purchases, for the purpose of obtaining Bids on the Work. No license or grant of use is conferred by issuance of copies of the Bidding Documents.”

Delete 3.4.1 and replace with-

“3.4.1 Addenda instructions will be posted on the RI Purchasing website. Addenda which include new documents can be downloaded from the website. Bidders are responsible for checking for addenda.”

In 4.3.3, change the words “be returned unopened” to “not be considered”.

C. Replace **Document 00410 Bid Form** with the updated form dated 3/1/11, 3 pages, attached.

D. Revise **Document 00520 Agreement Form** as follows:

In paragraph 3.3, delete the date “Sept. 2, 2011” and replace with the following-

“Substantial Completion of the Work for the Lecture Halls, Lobby, and Access to the Lecture Halls and 1st Floor low-rise east of main corridor wall by September 2, 2011, and Substantial Completion of the Work in the High Rise and 2nd floor low-rise by October 7, 2011. All punchlist and work to achieve Final Completion after these dates will be accomplished on 3rd shift.”

E. In **Document 00700 General Conditions**, revise as follows:

Add the following sentence to 11.1.3 after the first sentence in that paragraph-

“The certificates of insurance to be provided shall include the owner as an additional insured. The “owner” shall be described on the policy as follows: “The Rhode Island Board of Governors for Higher Education, the University of Rhode Island, and the State of Rhode Island”.”

F. In **Section 01100 Summary**, change the following:

In paragraph 1.02 A, change “00500” to “00520”.

Add the following sentence to subparagraph 1.05 D-

“3. Contractor to provide written notification on Fire Sprinkler and Alarm System Impairment Notification Form following this section as Attachment B.”

Append the attached “Fire Sprinkler and Alarm System Impairment Notification Form”, one page, to this Section 01100 as “Exhibit B”.

G. In **Section 01200 Price and Payment Provisions**, revise the following:

Replace the header to 1.02 with-

“1.02 CASH ALLOWANCE PROVISIONS”

In 1.02 A, add the word “cash” before the word “allowance”.

In 1.02 B, add the word “cash” before the word “allowance”.

Add the following subparagraph to 1.02:

“F. Schedule of Cash Allowances - None.”

H. Revise **Section 02225 Demolition** as follows:

Add the following subparagraph to 1.03-

“C. Current lead paint regulations applicable in the State of RI.”

Add the following subparagraph to 3.02-

“E. Assume that all existing original paint contains lead. Take appropriate precautions in accordance with RI regulations when working with painted surfaces. Include all costs of working with existing lead-painted surfaces and properly disposing of demolition debris in the Base Bid.”

I. Revise **Section 05500 Metal Fabrications** as follows:

In paragraph 2.04, delete subparagraph C and replace with the following –

“C. Aluminum Channel: Provide aluminum pieces as detailed that are not a standard part of the wall panel assembly by Armstrong. Square-corner C channels shall be by Argyle Industries, Inc. or equal. 160 Meister Ave. Branchburg, NJ 08876, 800-320-6461. www.argylein.com. Refer to details for sizes.”

J. Add new section:

Section 09215 Gypsum Veneer Plaster, 2 pages dated 3/1/11, attached.

K. Revise **Section 09511 Suspended Acoustical Ceilings** as follows:

In 2.01 D.4, change “microperforated” to be “extra microperforated”.

L. Revise **Section 09850 Acoustical Panels** as follows:

In 3.05 A.8, change “Ekos Wall System – Ekos Maple (MP)” to “Custom Veneer Walls, Maple”.

In 3.05 A.9, change “Ekos Wall System – Ekos Maple (MP)” to “Custom Veneer Walls, Maple”.

M. Revise Section 09900 Paints and Coatings, as follows:

In 1.03 C.2, add the following words to the end of the sentence before the period –
“and cut ends of obsolete guardrail pickets at stair.”

1.07 Drawing Changes

A. Replace Drawings D1.0 and A2.0 with new sheets D1.0 and A2.0 dated 03/01/11 issued as part of this addendum.

B. Add new sheets to the Base Bid for demolition work in the low-rise issued as part of this addendum as follows:

D1.1B	Low Rise First Floor Interior Demolition Plan	Dated 03/01/11
E1.1B	Electrical Demolition Plan	Dated 03/01/11
M1.1B	First Floor Ductwork Demolition Plan	Dated 03/01/11
M1.2B	First Floor Piping Demolition Plan	Dated 03/01/11
P1.0B	Basement Floor Plan-Plumbing Demolition	Dated 03/01/11
P1.1B	First Floor Plan-Plumbing Demolition	Dated 03/01/11

C. Add information regarding the top of wall closure to Drawing A1.1 per the attached sketch SKA-#1 dated 02/25/11. This work is a part of the Base Bid.

D. Revise details on Drawing A3.1 and A3.1A per the attached sketches SKA-#2 and SKA-#3 dated 02/25/11. These describe changes to the aluminum wall panel trim. This work is part of the Base Bid when described on A3.1, and part of alternate work if found on A3.1A.

E. Original building construction details are offered in the attached sketch of Section C Stair B to clarify the existing assembly detail of the stair rail posts to be demolished. There are steel strap anchors embedded in the concrete, concealed by parging material, to which the post base is welded. The work includes cutting the post base from the embedded anchor and repairing the parging as necessary to achieve a finished look in conjunction with the new rail system.

END OF DOCUMENT 00900

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:
University of Rhode Island

2. Application Prepared By:
Daniel J. Simas

RI certification No: **AAC-567-PD**

Telephone No: **401-737-8500 ext 121**
(Area code, No., Ext.)

3. Building Owner's Mailing Address and Telephone Number:

Street: **177 Plains Road**

City/Town: **Kingston**

Zip: **02881**

Telephone No.: **401-874-2591**

(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **David Welsh**

Telephone No: **401-874-5500**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name (if applicable): **URI – Chafee Hall**

Street: **Kingston Campus**

City/Town: **Kingston**

Zip: **02881**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement plan"? () Yes (X) No

If Yes, what is the due date for submittal of Abatement plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **To be selected**

R.I. License No.: LAC-

14. Pre-Abatement Air Sample Collection and Analysis:

A). Person collecting pre-abatement air samples:

Name: **RIAL Personnel**

Affiliation: **RIAL**

B). Laboratory performing analysis of pre-abatement air samples.

Name: **RIAL**

RI Certification No.: **AAL-008C3**

C). Methodology used in the collection and analysis of pre-abatement samples:

NIOSH Method 7400 [Most Current Revision]

OSHA 29 CFR 1926.1101 – Appendix A & B

Other (Specify) _____

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

To be determined _____

B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

To be determined _____

16. Person designated as compliance monitor for abatement work. **[NOT REQUIRED]**

Name: _____ **RI Analytical Personnel** _____

Affiliation: _____ **RIAL** _____

17. In-Process & Clearance Air Sampling: **See Attachment #1**

- A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
- B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.
- C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
- D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fiber per cubic centimeter) is exceed during final clearance testing.

18. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.

- Area 1 – 1st Floor Low Rise**
- Area 2 – Large Auditorium**
- Area 3 – Small Auditoriums**
- Area 4 – Basement Area**

19. I certify that this plan was prepared by me and I am responsible for its content.

Signature: _____

Date _____

3/1/11
(Month) (Day) (Year)

Affiliation: **RI Analytical Laboratories, Inc**

20. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

- () Operation & Maintenance Only \$ 75
- () Up to One (1) NESHAP Unit \$ 75
- () Between One (1) & Ten (10) NESHAP Units \$ 300
- () Between Ten (10) & Fifty (50) NESHAP Units \$ 600
- () Over Fifty (50) NESHAP Units \$ 900
- (X) RI State Agency Waived Application Fee

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **Chafee Hall, University of Rhode Island Kingston Campus**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(1) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 1 – 1st Floor Low Rise

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

(4) PROPOSED REMEDIES:

A). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

B). Will any portion of this area be abated by use of B.8 work procedures?

Yes No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	12x12 Floor Tile; Spray-on Fireproofing; Ceiling Tiles; Sheetrock/Joint Compound; Pipe Insulation
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	_____
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASP. ROOFING]	_____

C). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

Yes No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

D). Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

Yes No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

E). Will any RACM remain in this area after abatement?

Yes No Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). **See Attachment 4**

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **Chafee Hall, University of Rhode Island Kingston Campus**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(5) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 2 – Large Auditorium

(6) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

(7) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

(8) PROPOSED REMEDIES:

F). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

G). Will any portion of this area be abated by use of B.8 work procedures?

Yes No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	Popcorn Ceiling; 1x1 Ceiling Tiles; Sheetrock/Joint Compound
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	_____
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASP. ROOFING]	_____

H). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

Yes No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

I). Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

Yes No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

J). Will any RACM remain in this area after abatement?

Yes No Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). **See Attachment 4**

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **Chafee Hall, University of Rhode Island Kingston Campus**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(9) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 3 – Small Auditoriums/South Entrance

(10) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

(11) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

(12) PROPOSED REMEDIES:

K). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

L). Will any portion of this area be abated by use of B.8 work procedures?

Yes No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	Popcorn Ceiling; 1x1 Ceiling Tiles; Sheetrock/Joint Compound; 2x1 Ceiling Tiles
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	_____
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASP. ROOFING]	_____

M). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

Yes No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

N). Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

Yes No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

O). Will any RACM remain in this area after abatement?

Yes No Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). **See Attachment 4**

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Office of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: **Chafee Hall, University of Rhode Island Kingston Campus**

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(13) Area Location/Identification (Room Name/No., Evaluation Number, etc.):

Area 4 – Basement Area

(14) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

Refer to Attachment #2

(15) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

Refer to Attached Building Drawing

(16) PROPOSED REMEDIES:

P). Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2 (b).

Refer to Attachment #3

(4) PROPOSED REMEDIES (cont.):

Q). Will any portion of this area be abated by use of B.8 work procedures?

Yes No

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3	[REMOVAL]	Spray-on Fireproofing
B.8.2 & B.8.4	[ENCAPSULATION]	_____
B.8.2 & B.8.5	[ENCLOSURE]	_____
B.8.6	[DEMOLITION]	_____
B.8.7	[GLOVEBAG]	_____
B.8.8	[ASP. ROOFING]	_____

R). Are you requesting any waivers to the above selected B.8 procedure for any of the abatement activities in this area?

Yes No

If yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

S). Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

Yes No

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

T). Will any RACM remain in this area after abatement?

Yes No Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b). **See Attachment 4**

AGENCY USE ONLY

ATTACHMENT #1

In Process and Clearance Air Sampling

- A. RI Analytical will be on site for part time monitoring and will collect one compliance air sample outside the containment area daily for the duration of asbestos removal operations inside this building. The sample will be collected outside the decontamination unit.
- B. Any deviation in proper procedures on the part of the contractor shall be reported to the building owner. This includes inadequate paperwork on site, disagreement and/or any deviation from previously outlined work procedures, or if compliance samples in the work area vicinity exceed 0.01 f/cc. The contractor's work shall then be stopped, without repercussion to the building owner or the project-monitoring firm until any conflicts and/or problems have been resolved.
- C. After the interior areas have passed the consultant's visual inspection, he or his authorized representative will collect:
 - Area 1 – 5 PCM Clearance Air Samples**
 - Area 2 – 4 PCM Clearance Air Samples**
 - Area 3 – 7 PCM Clearance Air Samples**
 - Area 4 – 2 PCM Clearance Air Samples**
- D. If clearance monitoring after clean-up results in fiber concentrations in excess of the RI rules and regulation clearance air requirements, the project area shall be wet-cleaned, misted with water, and encapsulated with a liquid encapsulant. A period of no less than 24 hours shall elapse before the next set of clearance air samples can be collected. The sampling process shall be repeated until a satisfactory clearance air level is attained.

The asbestos contractor is held responsible for any costs associated with the re-cleaning and re-sampling of an area should clearance air samples exceed 0.01 f/cc.

ATTACHMENT #2

ASB-16A-2

Description of Asbestos Containing Material

1st Floor Chafee Hall Sample Results – Collected 12/17/10

Sample #	Description	Location	Quantity	% Asbestos
01	12x12 Black Floor Tile	Throughout Research Area	13,500 sf	1-5% Chrysotile
*06A-C	2x2 Ceiling Tile	Throughout	15,050 sf	Possibly Contaminated due to overspray
*07A-C	Sheetrock	Throughout	~35,000 sf	
*09A-C	Tinted Spray-on Fireproofing	On Ceiling Deck, Columns Throughout	16,000 sf	5-15% Chrysotile 5-15% Amosite
*010A-C	TSI Fittings	Above Drop Ceiling Throughout	~1,500 lf	Possibly Contaminated due to overspray
--	Fiberglass Lines			
*022	2x2 Sheetrock Ceiling Tile	Room 144	450 sf	Possibly Contaminated due to overspray
028	Spray-on Fireproofing	Mechanical Room Deck	~500 sf (Work Area)	5-15% Amosite
029	Spray-on Fireproofing	Room 125 Wall Void	See 09A-C	5-15% Amosite

Auditorium Sample Results – Collected 2/3/11

Sample #	Description	Location	Quantity	% Asbestos
01A-B	Popcorn Ceiling	Auditorium Ceilings	4,700 sf	1-5% Chrysotile
02A-C	1x1 Ceiling Tile	Auditorium Ceilings	7,300 sf	1-5% Amosite
04	Sheetrock	Auditorium Ceiling	12,000 sf	Contamination by Joint Compound
05	Joint Compound	Auditorium Ceiling		1-5% Chrysotile

Additional Sampling – Collected 2/16/11

Sample #	Description	Location	Quantity	% Asbestos
09	2x1 Ceiling Tile	Auditorium South Entrance	550 sf	1-5% Chrysotile

It is the contractors responsibility to verify all quantities.

ATTACHMENT #2 (Cont.)

Laboratory Analysis Reports:

1. Bulk Sampling Results
2. Pre-Abatement Air Sampling Results



CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
Attn: Mr. Chad Prescott
41 Illinois Avenue
Warwick, RI 02888

Date Received: 12/20/2010
Date Reported: 12/23/2010
Work Order #: 1012-24973

Site Location: PROJECT # 100858 URI - CHAFEE HALL 1ST FLOOR RESEARCH WING

Enclosed please find your sample(s) analysis results for asbestos content. The six asbestos types include amosite, chrysotile, crocidolite, anthophyllite, tremolite, and actinolite.

METHODOLOGY: Polarized Light Microscopy (PLM) as suggested by EPA/600/R-93/116, July 1993 edition.

If the samples are found to be inhomogeneous, individual components will be analyzed separately. If individual components cannot be separated, the samples will be homogenized and a single result will be provided for the entire sample.

Sample results pertain only to items tested. The report must not be reproduced except in full with permission of R.I. Analytical. Samples submitted for analysis will be retained for three months for your future reference.

Our laboratory maintains NVLAP accreditation for bulk asbestos fiber analysis NVLAP lab code 101440-0.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government.

If you have any questions regarding this report, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 12/20/2010

Work Order #: 1012-24973

Site Location: PROJECT # 100858 URI - CHAFEE HALL 1ST FLOOR RESEARCH WING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
001	01: 12X12 BLACK FT	PLM Fiber Analysis			
		Asbestos	POSITIVE	12/23/2010	EDN
		Chrysotile	1-5 %	12/23/2010	EDN
		Non-fibrous	95-99 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
002	02: MASTIC TO 01	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
003	03: 12 X 12 BLACK	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
004	04: MASTIC TO 03	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Yellow	12/23/2010	EDN
005	05: BLACK CB W/ADH.	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
006	06A: 2 X 2 CT	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
007	06B: 2 X 2 CT	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN

R.I. Analytical Laboratories, Inc.
 CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 12/20/2010

Work Order #: 1012-24973

Site Location: PROJECT # 100858 URI - CHAFEE HALL 1ST FLOOR RESEARCH WING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
008	06C: 2 X 2 CT	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
009	07A: SHEETROCK	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
010	07B: SHEETROCK	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	1-5 %	12/23/2010	EDN
		Non-fibrous	95-99 %	12/23/2010	EDN
		Sample Color	White	12/23/2010	EDN
011	07C: SHEETROCK	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	1-5 %	12/23/2010	EDN
		Non-fibrous	95-99 %	12/23/2010	EDN
		Sample Color	White	12/23/2010	EDN
012	08A: JOINT COMPOUND	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	White	12/23/2010	EDN
013	08B: JOINT COMPOUND	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	White	12/23/2010	EDN
014	08C: JOINT COMPOUND	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	White	12/23/2010	EDN

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R.I. Analytical (EAM Division)

Date Received: 12/20/2010

Work Order #: 1012-24973

Site Location: PROJECT # 100858 URI - CHAFEE HALL 1ST FLOOR RESEARCH WING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
015	09A: TINTED SPRAY-ON	PLM Fiber Analysis			
		Asbestos	POSITIVE	12/23/2010	EDN
		Chrysotile	5-15 %	12/23/2010	EDN
		Amosite	5-15 %	12/23/2010	EDN
		Glass Fiber	35-45 %	12/23/2010	EDN
		Non-fibrous	25-35 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
016	09B: TINTED SPRAY-ON	PLM Fiber Analysis			
	+ STOP TO 09A				
017	09C: TINTED SPRAY-ON	PLM Fiber Analysis			
	+ STOP TO 09A				
018	010A: PIPE FITTINGS	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	15-25 %	12/23/2010	EDN
		Non-fibrous	75-85 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
019	010B: PIPE FITTINGS	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
020	010C: PIPE FITTINGS	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
021	011: GREY CB W/ ADHESIVE	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN

R.I. Analytical Laboratories, Inc.
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R.I. Analytical (EAM Division)

Date Received: 12/20/2010

Work Order #: 1012-24973

Site Location: PROJECT # 100858 URI - CHAFEE HALL 1ST FLOOR RESEARCH WING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
022	012: BLACK FT	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
023	013: MASTIC TO 012	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Yellow	12/23/2010	EDN
024	014A: 9 X 9 BLACK FT	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
025	014B: 9 X 9 BLACK FT	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
026	014C: 9 X 9 BLACK FT	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
027	015A: MASTIC TO 014A	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Yellow	12/23/2010	EDN
028	015B: MASTIC TO 014B	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Yellow	12/23/2010	EDN
029	015C: MASTIC TO 014C	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Yellow	12/23/2010	EDN

R.I. Analytical Laboratories, Inc.
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R.I. Analytical (EAM Division)

Date Received: 12/20/2010

Work Order #: 1012-24973

Site Location: PROJECT # 100858 URI - CHAFEE HALL 1ST FLOOR RESEARCH WING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
030	016A: 12 X 12 BLACK W/SPECKS	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
031	016B: 12 X 12 BLACK W/ SPECKS	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
032	016C: 12 X 12 BLACK W/ SPECKS	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
033	017A: MASTIC TO 016A	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Yellow	12/23/2010	EDN
034	017B: MASTIC TO 016B	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Yellow	12/23/2010	EDN
035	017C: MASTIC TO 016C	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Yellow	12/23/2010	EDN
036	018: FLOOR SKIM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
037	019: CONCRETE	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN

R.I. Analytical Laboratories, Inc.
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R.I. Analytical (EAM Division)

Date Received: 12/20/2010

Work Order #: 1012-24973

Site Location: PROJECT # 100858 URI - CHAFEE HALL 1ST FLOOR RESEARCH WING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
038	020: 12 X 12 RED FT	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Red	12/23/2010	EDN
039	021: BLACK MASTIC TO 020	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
040	022: 2 X 2 SHEETROCK CT	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	1-5 %	12/23/2010	EDN
		Non-fibrous	95-99 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
041	023: SINK ANTI-CONDENSATE	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
042	024A: END CAP	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	95-99 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
043	024B: END CAP	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	95-99 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
044	024C: END CAP	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN

R.I. Analytical Laboratories, Inc.
 CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 12/20/2010

Work Order #: 1012-24973

Site Location: PROJECT # 100858 URI - CHAFEE HALL 1ST FLOOR RESEARCH WING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
045	025A: PIPE FITTINGS MR	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
046	025B: PIPE FITTINGS MR	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
047	025C: PIPE FITTINGS MR	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
048	026: VIBRATION CLOTH	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN
049	027: DUCT JACKET	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	85-95 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
050	028: SPRAY-ON MR	PLM Fiber Analysis			
		Asbestos	POSITIVE	12/23/2010	EDN
		Amosite	5-15 %	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	70-90 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN

R.I. Analytical Laboratories, Inc.
 CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 12/20/2010

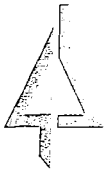
Work Order #: 1012-24973

Site Location: PROJECT # 100858 URI - CHAFEE HALL 1ST FLOOR RESEARCH WING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
051	029: SPRAY-ON WV	PLM Fiber Analysis			
		Asbestos	POSITIVE	12/23/2010	EDN
		Amosite	5-15 %	12/23/2010	EDN
		Glass Fiber	5-15 %	12/23/2010	EDN
		Non-fibrous	70-90 %	12/23/2010	EDN
		Sample Color	Gray	12/23/2010	EDN
052	030: COUNTER TOP	PLM Fiber Analysis			
		Asbestos	NEGATIVE	12/23/2010	EDN
		Non-fibrous	100 %	12/23/2010	EDN
		Sample Color	Black	12/23/2010	EDN

Project# 100858
 URI - Chafee Hall
 1st Floor
 Research Wing



CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
Attn: Mr. Chad Prescott
41 Illinois Avenue
Warwick, RI 02888

Date Received: 2/4/2011
Date Reported: 2/8/2011
Work Order #: 1102-01997

Site Location: PROJECT #100858 CHAFEE 1ST FL. URI ADDITIONAL SAMPLING

Enclosed please find your sample(s) analysis results for asbestos content. The six asbestos types include amosite, chrysotile, crocidolite, anthophyllite, tremolite, and actinolite.

METHODOLOGY: Polarized Light Microscopy (PLM) as suggested by EPA/600/R-93/116, July 1993 edition.

If the samples are found to be inhomogeneous, individual components will be analyzed separately. If individual components cannot be separated, the samples will be homogenized and a single result will be provided for the entire sample.

Sample results pertain only to items tested. The report must not be reproduced except in full with permission of R.I. Analytical. Samples submitted for analysis will be retained for three months for your future reference.

Our laboratory maintains NVLAP accreditation for bulk asbestos fiber analysis NVLAP lab code 101440-0.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government.

If you have any questions regarding this report, or if we may be of further assistance, please contact us.

Approved by:

Data Reporting

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 2/4/2011

Work Order #: 1102-01997

Site Location: PROJECT #100858 CHAFEE 1ST FL. URI ADDITIONAL SAMPLING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
001	#1 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	75-85 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
002	#2 DEBRIS ON WALL	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Chrysotile	5-15 %	2/8/2011	EVH
		Amosite	5-15 %	2/8/2011	EVH
		Non-fibrous	70-90 %	2/8/2011	EVH
	Sample Color	Gray	2/8/2011	EVH	
003	#3 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	70-90 %	2/8/2011	EVH
	Sample Color	Green	2/8/2011	EVH	
004	#4 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	75-85 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
005	#5 DEBRIS ON CT	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Amosite	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
	Sample Color	Gray	2/8/2011	EVH	
006	#6 STRUCTURAL BEAM	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Amosite	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
	Sample Color	Gray	2/8/2011	EVH	

R.I. Analytical Laboratories, Inc.
 CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 2/4/2011

Work Order #: 1102-01997

Site Location: PROJECT #100858 CHAFEE 1ST FL. URI ADDITIONAL SAMPLING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
007	#7 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
008	#8 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
009	#9 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
010	#10 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
011	#11 OVERSPRAY ON ELECTRICAL	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Amosite	1-5 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	70-84 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 2/4/2011

Work Order #: 1102-01997

Site Location: PROJECT #100858 CHAFEE 1ST FL. URI ADDITIONAL SAMPLING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
012	#12 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
013	#13 OVERSPRAY ON PIPE	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
014	#14 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
015	#15 OVERSPRAY ON ELECTRICAL	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
016	#16 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH

R.I. Analytical Laboratories, Inc.
 CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 2/4/2011

Work Order #: 1102-01997

Site Location: PROJECT #100858 CHAFEE 1ST FL. URI ADDITIONAL SAMPLING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
017	#17 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
018	#18 BEAM	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
019	#19 OVERSPRAY ON PIPE	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Green	2/8/2011	EVH
020	#20 WALL MATERIAL	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	1-5 %	2/8/2011	EVH
		Glass Fiber	1-5 %	2/8/2011	EVH
		Non-fibrous	90-98 %	2/8/2011	EVH
		Sample Color	White	2/8/2011	EVH
021	#21 WALL MATERIAL	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	1-5 %	2/8/2011	EVH
		Glass Fiber	1-5 %	2/8/2011	EVH
		Non-fibrous	90-98 %	2/8/2011	EVH
		Sample Color	White	2/8/2011	EVH

R.I. Analytical Laboratories, Inc.
 CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 2/4/2011

Work Order #: 1102-01997

Site Location: PROJECT #100858 CHAFEE 1ST FL. URI ADDITIONAL SAMPLING

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
022	#22 SPRAY-ON IN WALL VOID	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Amosite	15-25 %	2/8/2011	EVH
		Glass Fiber	15-25 %	2/8/2011	EVH
		Non-fibrous	50-70 %	2/8/2011	EVH
		Sample Color	Gray	2/8/2011	EVH
023	#23 SHEETROCK	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	1-5 %	2/8/2011	EVH
		Glass Fiber	1-5 %	2/8/2011	EVH
		Non-fibrous	90-98 %	2/8/2011	EVH
		Sample Color	Gray	2/8/2011	EVH

Project #100858
 Chafee 1st Floor
 URI
 Additional Sampling

CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
Attn: Mr. Chad Prescott
41 Illinois Avenue
Warwick, RI 02888

Date Received: 2/4/2011
Date Reported: 2/8/2011
Work Order #: 1102-01995

Site Location: PROJECT #110062 CHAFEE HALL - URI AUDITORIUM

Enclosed please find your sample(s) analysis results for asbestos content. The six asbestos types include amosite, chrysotile, crocidolite, anthophyllite, tremolite, and actinolite.

METHODOLOGY: Polarized Light Microscopy (PLM) as suggested by EPA/600/R-93/116, July 1993 edition.

If the samples are found to be inhomogeneous, individual components will be analyzed separately. If individual components cannot be separated, the samples will be homogenized and a single result will be provided for the entire sample.

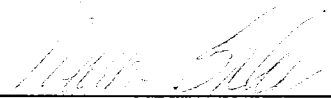
Sample results pertain only to items tested. The report must not be reproduced except in full with permission of R.I. Analytical. Samples submitted for analysis will be retained for three months for your future reference.

Our laboratory maintains NVLAP accreditation for bulk asbestos fiber analysis NVLAP lab code 101440-0.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government.

If you have any questions regarding this report, or if we may be of further assistance, please contact us.

Approved by:



Data Reporting

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 2/4/2011

Work Order #: 1102-01995

Site Location: PROJECT #110062 CHAFEE HALL - URI AUDITORIUM

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
001	01A POPCORN CEILING	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Chrysotile	1-5 %	2/8/2011	EVH
		Non-fibrous	95-99 %	2/8/2011	EVH
		Sample Color	White	2/8/2011	EVH
002	01B POPCORN CEILING	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Chrysotile	1-5 %	2/8/2011	EVH
		Non-fibrous	95-99 %	2/8/2011	EVH
		Sample Color	White	2/8/2011	EVH
003	02A 1 X 1 CT	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Amosite	1-5 %	2/8/2011	EVH
		Non-fibrous	95-99 %	2/8/2011	EVH
		Sample Color	Gray	2/8/2011	EVH
004	02B 1 X 1 CT	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Amosite	1-5 %	2/8/2011	EVH
		Non-fibrous	95-99 %	2/8/2011	EVH
		Sample Color	Gray	2/8/2011	EVH
005	03A GLUE DAB	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Non-fibrous	100 %	2/8/2011	EVH
		Sample Color	Brown	2/8/2011	EVH
006	03B GLUE DAB	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Non-fibrous	100 %	2/8/2011	EVH
		Sample Color	Brown	2/8/2011	EVH
007	04 SHEETROCK	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EVH
		Cellulose	1-5 %	2/8/2011	EVH
		Glass Fiber	1-5 %	2/8/2011	EVH
		Non-fibrous	90-98 %	2/8/2011	EVH
		Sample Color	White	2/8/2011	EVH

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)

Date Received: 2/4/2011

Work Order #: 1102-01995

Site Location: PROJECT #110062 CHAFEE HALL - URI AUDITORIUM

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
008	05 JOINT COMPOUND	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/8/2011	EVH
		Chrysotile	1-5 %	2/8/2011	EVH
		Non-fibrous	95-99 %	2/8/2011	EVH
		Sample Color	Beige	2/8/2011	EVH

Project # 110062
Chafee Hall - URI
Auditorium

CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
Attn: Mr. Chad Prescott
41 Illinois Avenue
Warwick, RI 02888

Date Received: 2/4/2011
Date Reported: 2/8/2011
Work Order #: 1102-01991

Site Location:PROJECT #110062 CHAFEE HALL - URI FIRE UPGRADE

Enclosed please find your sample(s) analysis results for asbestos content. The six asbestos types include amosite, chrysotile, crocidolite, anthophyllite, tremolite, and actinolite.

METHODOLOGY: Polarized Light Microscopy (PLM) as suggested by EPA/600/R-93/116, July 1993 edition.

If the samples are found to be inhomogeneous, individual components will be analyzed separately. If individual components cannot be separated, the samples will be homogenized and a single result will be provided for the entire sample.

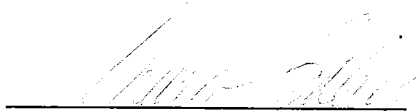
Sample results pertain only to items tested. The report must not be reproduced except in full with permission of R.I. Analytical. Samples submitted for analysis will be retained for three months for your future reference.

Our laboratory maintains NVLAP accreditation for bulk asbestos fiber analysis NVLAP lab code 101440-0.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government.

If you have any questions regarding this report, or if we may be of further assistance, please contact us.

Approved by:



Data Reporting

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
 Date Received: 2/4/2011
 Work Order #: 1102-01991
 Site Location: PROJECT #110062 CHAFEE HALL - URI FIRE UPGRADE

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
001	2-1 SPRAY-ON	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EDN
		Cellulose	15-25 %	2/8/2011	EDN
		Glass Fiber	15-25 %	2/8/2011	EDN
		Non-fibrous	50-70 %	2/8/2011	EDN
		Sample Color	Green	2/8/2011	EDN
002	2-2 SPRAY-ON	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EDN
		Cellulose	15-25 %	2/8/2011	EDN
		Glass Fiber	15-25 %	2/8/2011	EDN
		Non-fibrous	50-70 %	2/8/2011	EDN
		Sample Color	Green	2/8/2011	EDN
003	2-3 SPRAY-ON	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EDN
		Cellulose	15-25 %	2/8/2011	EDN
		Glass Fiber	15-25 %	2/8/2011	EDN
		Non-fibrous	50-70 %	2/8/2011	EDN
		Sample Color	Green	2/8/2011	EDN
004	4-1 SHEETROCK	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/8/2011	EDN
		Cellulose	1-5 %	2/8/2011	EDN
		Glass Fiber	1-5 %	2/8/2011	EDN
		Non-fibrous	90-98 %	2/8/2011	EDN
		Sample Color	Gray	2/8/2011	EDN

Project #110062
 Chafee Hall-URI
 Fire Upgrade

CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
Attn: Mr. Chad Prescott
41 Illinois Avenue
Warwick, RI 02888

Date Received: 2/16/2011
Date Reported: 2/17/2011
Work Order #: 1102-02737

Site Location: PROJECT #110062 CHAFEE HALL - URI HIGH RISE

Enclosed please find your sample(s) analysis results for asbestos content. The six asbestos types include amosite, chrysotile, crocidolite, anthophyllite, tremolite, and actinolite.

METHODOLOGY: Polarized Light Microscopy (PLM) as suggested by EPA/600/R-93/116, July 1993 edition.

If the samples are found to be inhomogeneous, individual components will be analyzed separately. If individual components cannot be separated, the samples will be homogenized and a single result will be provided for the entire sample.

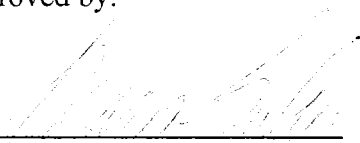
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If you have any questions regarding this report, or if we may be of further assistance, please contact us.

Approved by:



Data Reporting

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
 Date Received: 2/16/2011
 Work Order #: 1102-02737
 Site Location: PROJECT #110062 CHAFEE HALL - URI HIGH RISE

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
001	01 PIPE FITTING	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/16/2011	EDN
		Glass Fiber	15-25 %	2/16/2011	EDN
		Non-fibrous	75-85 %	2/16/2011	EDN
		Sample Color	Gray	2/16/2011	EDN
002	02 SPRAY-ON	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/16/2011	EDN
		Cellulose	15-25 %	2/16/2011	EDN
		Glass Fiber	15-25 %	2/16/2011	EDN
		Non-fibrous	50-70 %	2/16/2011	EDN
003	03 OVERSPRAY	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/16/2011	EDN
		Cellulose	15-25 %	2/16/2011	EDN
		Glass Fiber	15-25 %	2/16/2011	EDN
		Non-fibrous	50-70 %	2/16/2011	EDN
004	04 SPRAY-ON	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/16/2011	EDN
		Cellulose	15-25 %	2/16/2011	EDN
		Glass Fiber	15-25 %	2/16/2011	EDN
		Non-fibrous	50-70 %	2/16/2011	EDN
005	05 OVERSPRAY	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/16/2011	EDN
		Cellulose	15-25 %	2/16/2011	EDN
		Glass Fiber	15-25 %	2/16/2011	EDN
		Non-fibrous	50-70 %	2/16/2011	EDN
006	06 SPRAY-ON	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/16/2011	EDN
		Cellulose	15-25 %	2/16/2011	EDN
		Glass Fiber	15-25 %	2/16/2011	EDN
		Non-fibrous	50-70 %	2/16/2011	EDN
		Sample Color	Green	2/16/2011	EDN

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

R.I. Analytical (EAM Division)
 Date Received: 2/16/2011
 Work Order #: 1102-02737
 Site Location: PROJECT #110062 CHAFEE HALL - URI HIGH RISE

METHOD: EPA/600/R-93-116

SAMPLE NO.	SAMPLE DESCRIPTION	PARAMETER	SAMPLE RESULTS / UNITS	DATE ANALYZED	ANALYST
007	07 SPRAY-ON	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/16/2011	EDN
		Cellulose	15-25 %	2/16/2011	EDN
		Glass Fiber	15-25 %	2/16/2011	EDN
		Non-fibrous	50-70 %	2/16/2011	EDN
		Sample Color	Green	2/16/2011	EDN
008	08 OVERSPRAY	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/16/2011	EDN
		Cellulose	15-25 %	2/16/2011	EDN
		Glass Fiber	15-25 %	2/16/2011	EDN
		Non-fibrous	50-70 %	2/16/2011	EDN
		Sample Color	Gray	2/16/2011	EDN
009	09 2 X 1 CT	PLM Fiber Analysis			
		Asbestos	POSITIVE	2/16/2011	EDN
		Chrysotile	1-5 %	2/16/2011	EDN
		Glass Fiber	40-60 %	2/16/2011	EDN
		Non-fibrous	35-60 %	2/16/2011	EDN
		Sample Color	Gray	2/16/2011	EDN
010	010 CEILING	PLM Fiber Analysis			
		Asbestos	NEGATIVE	2/16/2011	EDN
		Non-fibrous	100 %	2/16/2011	EDN
		Sample Color	White	2/16/2011	EDN

Project #110062
 Chafee Hall-URI
 High Rise, 2nd Floor & Auditorium
 Additional Sampling

ATTACHMENT #3

Interim Operations & Maintenance Plan

The contractors, maintenance personnel and staff associated with Chafee Hall are aware of the presence and location of ACBM within the above stated areas. They have been instructed not to disturb the material due to the potential health hazards if fibers become airborne.

1. Notification

All building occupants, also any contractors entering the building and/or premises to perform work, shall be notified of the presence and location of asbestos-containing material(s) and cautioned regarding disturbance of the material(s). Also, the building occupants must be notified regarding the occurrence of asbestos abatement activities. If an emergency fiber release occurs, the following procedures shall be initiated.

2. Fiber Release Episodes

A. Minor Release Episode

If a minor fiber release episode occurs (release of less than 10 linear feet or 25 square feet of material), trained maintenance staff may perform the cleaning. Access to the area shall be restricted during clean-up. All debris shall be thoroughly wetted using amended water and placed in labeled, double six-mil polyethylene bags. The area shall then be cleaned using HEPA filtered vacuums and/or wet cleaning methods. Damaged material must be cleaned and repaired with non-asbestos-containing material. The area shall then be evaluated to decide if further action is necessary.

B. Major Release Episode

If a major fiber release episode occurs (falling or dislodging of more than 10 linear feet or 25 square feet of ACBM), the cleaning must be carried out and directed by persons accredited to conduct and design response actions. After such an episode, the area shall be immediately restricted and entry to the area prevented. Warning signs shall be posted to caution people other than those qualified to deal with the problem. Air handling units in the area shall be shut down to prevent the spread of fibers beyond the problem area. A response action shall be designed and carried out by qualified personnel.

3. Training

Any employee who, because of their work, may disturb asbestos-containing material shall be trained and certified as a Competent Person as described by the R.I. Rules and Regulations for Asbestos Control. The program coordinator shall ensure that the procedures described above to protect the building occupants shall be followed for any operations and maintenance activities disturbing or involving ACBM.

ATTACHMENT #4

Scope of Work / Description of Waivers

All proper OSHA, federal, state, and local safety regulations shall be followed.

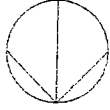
All materials will be removed utilizing B8.2 and B8.3 work procedures.

RI Analytical requests a waiver on signage through out the entire building; instead signage shall be placed in the immediate work area. All immediate entrances to the abatement areas will be marked with the appropriate signage and only accessed by the contractors associated with the project.

Pre-abatement air samples have not been collected at this time. Samples will be collected prior to abatement activities and forward to the RI DOH.

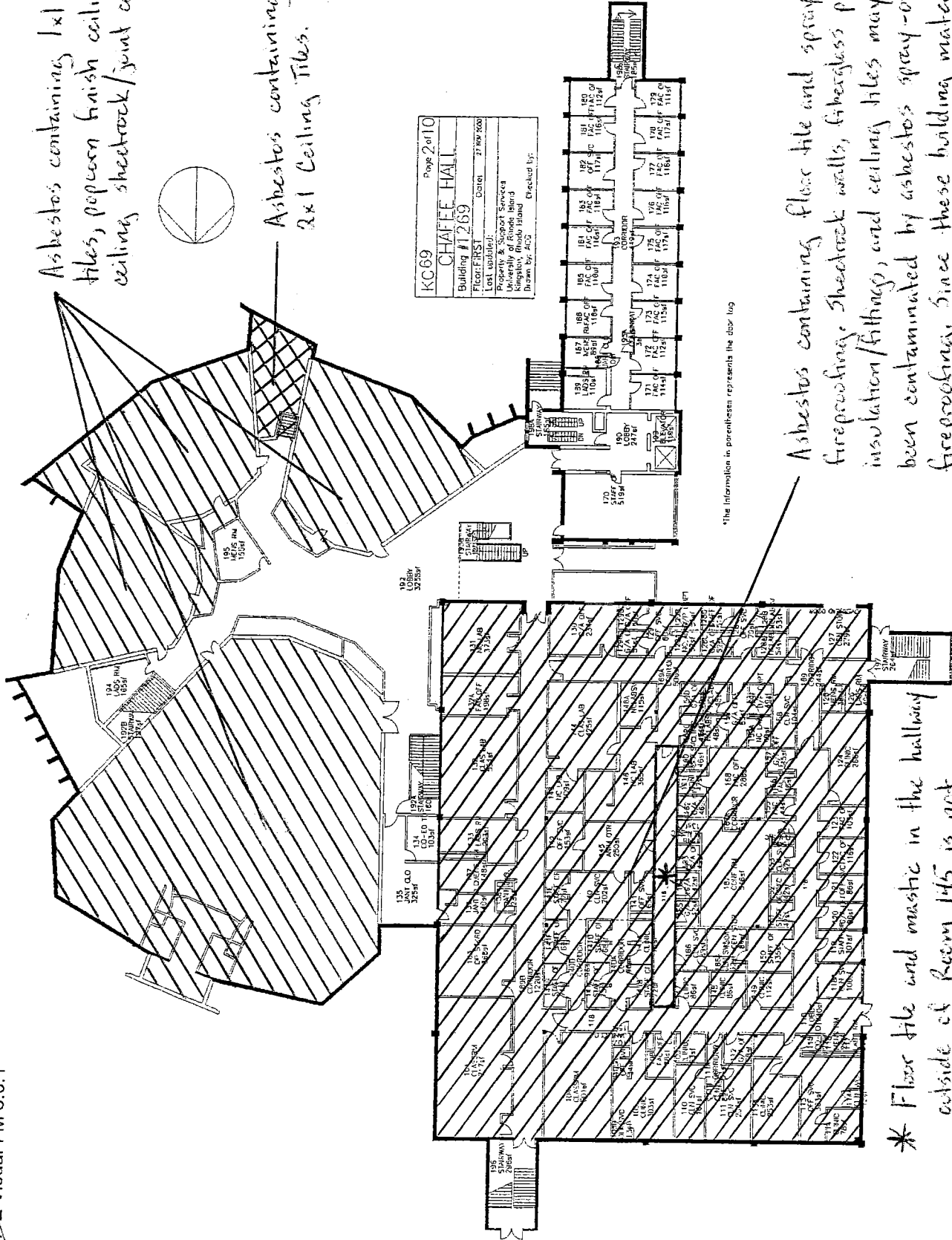
Chaffee Hall

Asbestos containing 1x1 ceiling tiles, popcorn finish ceiling, and ceiling sheetrock/joint compound.



Asbestos containing 2x1 Ceiling Tiles.

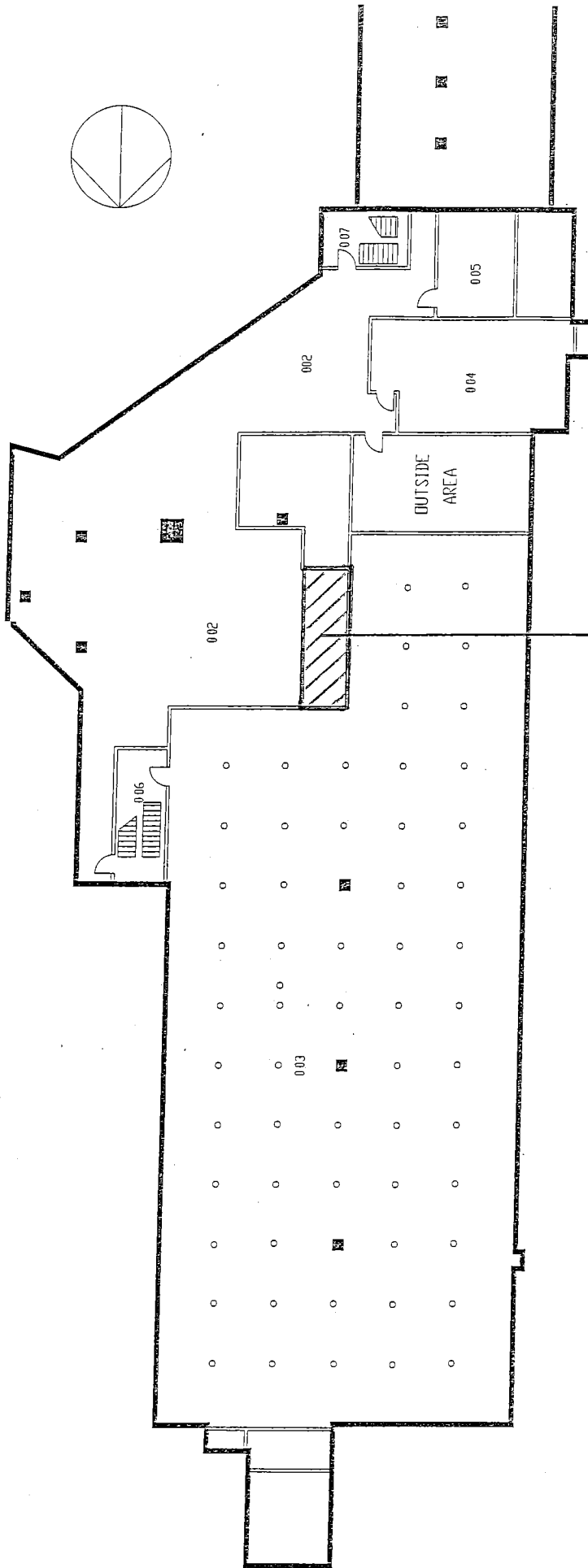
KC69	Page 2 of 10
CHAFFEE HALL	
Building #1269	
FILED: FIRST	DATE: 27 Nov 2000
LAST UPDATED:	
BY: Environmental Services	
University of South Florida	
Kingston, Florida Island	
Drawn by: ACJ	
Checked by:	



*The information in parentheses represents the abor lug

Asbestos containing floor tile and spray-on fireproofing sheetrock walls, fiberglass pipe insulation/fittings, and ceiling tiles may have been contaminated by asbestos spray-on fireproofing. Since these building materials are porous, they will need to be removed as an asbestos containing material.

* Floor tile and mastic in the hallway outside of Room 145 is not asbestos containing.
DRAWING: Kc69.1.vfm SCALE: 1.0" = 35.0' PLOTTED: 4/6/2010



KC 69 Page 1 of 0
 CHAFF HALL
 Building # 1269
 BASEMENT FLOOR Date: 8 JUL 96
 Property Office
 University of Rhode Island
 Kingston, Rhode Island
 Drawn by: AR Checked by:

*Spray-on fireproofing
 to be abated.*

URI Chafee Hall Fire Code Upgrades
University of Rhode Island, Kingston, RI

PRE-BID WALKTHROUGH NOTES:

Date: February 17, 2011, 10:00 AM at the Gallanti Lounge
Present: Peter Scalora, Phaedra Caouette, Dennis Veader, OCP/Gilbane; Tim LaRose, Hughes Associates; Nate Ginsburg, Schane Tallardy; Brewster Thornton Group Architects, BTGA; Various General Contractors (refer to sign-in sheet)
Prepared by: Schane M. Tallardy
Distribution: Addendum #4

The following agenda was reviewed by Peter Scalora

- ❑ Project Name: **Chafee Hall Fire Code Upgrades**
- ❑ URI Staff/OCP Project Manager
 - Peter Scalora – URI Project Manager, Gilbane Building Company
 - Will Dvorak – URI Associate Dean of Arts and Sciences
 - Dennis Veader – URI Construction Inspector, Gilbane Building Company
 - Phaedra Caouette – URI Project Coordinator, Gilbane Building Company
- ❑ Architect/Engineering Firms
 - Tim LaRose – Prime, Engineer of Record, Hughes Associates (HAI)
 - Nate Ginsburg – Principal-in-Charge, Brewster Thornton Group Architects (BTGA)
 - Schane Tallardy – Project Manager, Brewster Thornton Group Architects
- ❑ Agenda
 - Review of Bid Requirements, Project Scope, Alternates
 - Building Walk through
 - Questions and Answers

- ❑ Bid Procedure
 - Bid Due 3/1/11 @ 1:45pm DOA in Providence, addendum#2 will extend the bid date, please see State Purchasing website.
 - Not a Mandatory Pre-Bid, Sign-in please
 - Docs available online, and for review at HAI and URI OCP
 - Questions should be directed to John O’Hara, Division of Purchases, due Thursday 2/24/11. Copy Tim LaRose at HAI to speed answer process.
- ❑ Bid Form 00410 – complete in totality (fill in all spaces), Dollars, Alts, Breakouts, Unit Prices, License #, Addenda, Signature.
- ❑ Schedule and LD’s Completion by 9/2/11(*Superseded please see revised bid form*)
 - LD’s will be reduced to \$250/day, not a penalty, encouragement to complete on time. (*Superseded please see revised bid form*)

New Sections in the URI Project Manual

- ❑ Section 00710 – American Recovery and Reinvestment Act requires reporting man-hours by classification weekly, prevailing wage tracking different for State and Fed, track and report ARRA prevailing wages by Federal standard. ARRA requirements also include the “Buy American” standards and Buy America Act as outlined in section 1605 of the Federal Standards.
- ❑ Section 00720 – URI Sexual Harassment Policy
- ❑ Section 00730 – URI Safety Manual
- ❑ Section 00760 – URI Water System Regulations/Policies (including the University Flow Test Requirements)
- ❑ “Public” copy of all bids > \$1MM, RIGL Section 37-2-18 (P.L. 122)
- ❑ RI Regs added Title 37 13-3.1, Apprenticeship Ratios set forth by Department of Labor & Training
- ❑ Within Section 01100 – Summary of Work
 - Occupied Building, coordination weekly with URI Office of Capital Projects
 - 1.05 Site Use and Attachment A, Work hours are 5pm to 7am 7 days, except Lecture Halls are 24/7 from 5/21/thru 9/1, no elevator use, protect URI buildings and material.
- ❑ Section 01200, Allowances

- General \$250k
 - Signage \$10k
 - Projector Room AV removed, stored and returned for \$20k
- Section 01200, Price and Payments
 - 100% P&P bond
 - Prevailing Wage Rates online
 - Monthly Reqs include Certified Payrolls, Lien Waiver, Schedule Update and Material Status Report
 - Minority Business Enterprise Participation - Early Contact with MBE Officer
 - Addendum #1 will include:
 - Meeting notes from Pre-bid
 - Questions/Answers from Pre-bid and up through 2/24
 - Reduction of LD amount (*Superseded please see Addendum #4*)
 - Add demolition drawings for the first floor of the low rise, Refer to Section 01100, Attachment A, reference to another project.
 - Add ACM remediation plan for: 1. first floor of the low rise, all spray-on fire-proofing on beams, and overspray on walls, ceiling tile, pipe and conduit is contaminated and will be completely removed; 2. All lecture hall ceilings; and 3. Projection room floor tile. (*Superseded please see Addendum #4*)
 - Added acoustic separation at lecture hall adjoining walls. Detail and approx. linear footage will be provided
 - New bid form

The following items were reviewed by Tim LaRose.

- Technical Overview of Project- goal of the project is to bring the building into code compliance.
 - Addition of complete sprinkler system to the complex and modification of the standpipes within the high-rise.
 - Complete fire alarm replacement
 - Addition of fire fighter command center

- Miscellaneous life safety upgrades throughout
- General Contractor will be responsible for picking up and paying for the building permit. All State Fire Marshal and State Building Office approvals have been obtained and HAI will provide the appropriate letters necessary to pull permits.
- Call for inspections to Building Code Commission Office
- Also inspections by HAI, URI Alarms, State Fire Marshal (SFM)
- Pre-test by HAI
- Final Test with SFM

The following items were reviewed by Nate Ginsburg:

- Architectural Scope
 - All base bid work is in support of the fire code upgrade work, this includes ceiling replacement, fire door installation and handrail modifications
- Concurrent Project: the demolition scope for the first floor low rise was reviewed and noted to be included in the upcoming addendum
- Alternates were reviewed:
 - Alt #1 Lobby Finishes
 - Alt #2 Front Projection
 - Alt #3 Lecture Hall Finishes

Following the pre-bid introduction Dennis Veader led a walkthrough of the building.

The following questions were fielded during the walk through:

1. **Q: If the majority of the work is scheduled to occur during third shift off hours how should inspections be handled?** *A: It is expected that all inspections will need to take place during normal business hours to accommodate the inspectors. General Contractor shall be responsible for scheduling inspections and making sure that areas are open and available for viewing as required. The Owner understands this requirement.*
2. **Q: How should the work specific to the existing elevators be coordinated?** *A: The University currently has a contract with Otis Elevators to handle inspections and maintenance. It is expected that the successful contractor will hire Otis under separate contract for all necessary work related to this project. Refer to the Project Manual for specific requirements.*

3. **Q: Is Builder's Risk insurance still required to be carried by the Contractor?** *A: No modifications have been made to the requirements. Please refer to the Project Manual for specific requirements.*
4. **Q: What is the required rating for the fire alarm riser cable?** *A: Question will be addressed in later addendum.*
5. **Q: Are we to include the AWP-6 that is noted (in dashed area) on the front and side elevations of each hall along with AWP-7? Or are only the AWP-7 to be included in Alternate #2, and all the AWP-6 to be included in the work of Alternate #3? Please clarify.**
A: AWP-7 is only included as part of alternate #2 and all of the AWP-6 shown on the alternate drawings is to be included as part of alternate #3.

DOCUMENT 00410 - BID FORM

To: Department of Administration
Division of Purchases
One Capitol Hill, Providence, RI 02908

Project: Chafee Hall Fire Code Upgrades
University of Rhode Island, Kingston Campus

Submitted by: _____
(include address, _____
tel. & FAX nos., _____
and license no. _____
if applicable) _____

1. **BID**

Having examined the Place of The Work and all matters referred to in the Instructions to Bidders, and in the Contract Documents prepared by Hughes Associates, Inc. (Prime) with Brewster Thornton Group Architects LLP for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:

_____ (\$ _____.)
(written, and _____ numerically)

- We have included the specified contingency allowances from Section 01200 in Division 1 of the Specifications in the above Bid sum as follows:

Contingency Allowance,	\$250,000
Signage Allowance	10,000
Equipment Relocation/Storage	<u>20,000</u>
Total Allowances	\$280,000
- We have included the required Bid security as required by the Invitation to Bid in the above Bid Sum. We have included 100% Payment and Performance Bonds in the above Bid Sum.
- We have included the original Bid and an additional **“public copy”** as required by Document 00200 – Instructions to Bidders.
- We understand that this project contains funding through the American Recovery and Reinvestments Act of 2009 and agree to comply with all applicable terms and conditions as outlined in Document 00710 – Supplemental General Conditions – ARRA. We agree to provide the documentation in accordance with URI’s requests.

2. **ALTERNATES**

Our proposals to modify the above Bid as identified by numbered Alternatives specified in Section 01200 in Division 1 of the Specifications are as follows:

Alternate #1 – Lobby Finishes
Add _____ (\$ _____)

Alternate #2 – Front Projection (including required \$5,000 contingency allowance)

Add _____ (\$ _____)
Alternate #3 – Lecture Hall Finishes
Add _____ (\$ _____)

3. BREAK OUT PRICES

For the purposes of proper capitalization of building costs, please provide a break-out of the bid cost for the following work items, all of which are included in the Base Bid:

First Floor Low-Rise demolition as described on Sheets D1.1B, E1.1B, M1.1B, M1.2B, P1.0B, and P1.1B -

_____ (\$ _____)

Sprinkler and Alarm Systems in low-rise first floor area -

_____ (\$ _____)

Lecture Hall Acoustic Separation Wall Extensions –

_____ (\$ _____) for 85 LF of wall.

4. ACCEPTANCE

This offer shall be open to acceptance and is irrevocable for ninety days from the bid closing date. If this bid is accepted by the Owner within the time period stated above, we will:

- Execute the Agreement subject to compliance with required State regulatory agency approvals as described in Document 00200 Instructions to Bidders.
- Furnish the required bonds in compliance with amended provisions of the Instructions to Bidders.
- Commence work within seven days after receipt of a Purchase Order from URI Purchasing.

If this bid is accepted within the time stated, and we fail to commence the Work, or we fail to provide the required Bonds, the security deposit shall be forfeited as damages to the Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.

In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

5. CONTRACT TIME

If this Bid is accepted, we will achieve Substantial Completion of the Work for the Lecture Halls, Lobby, and Access to the Lecture Halls and 1st Floor low-rise east of main corridor wall by September 2, 2011, and Substantial Completion of the Work in the High Rise and 2nd floor low-rise by October 7, 2011. All punchlist and work to achieve Final Completion after these dates will be accomplished on 3rd shift. We have included all premium time or additional staffing required to accommodate this schedule.

Liquidated Damages, Time is of the Essence:

If we fail to achieve certification of Substantial Completion at the expiration of the agreed upon Contract Time indicated above, we acknowledge that we will be assessed Liquidated Damages for each calendar day the project continues to be in default of Substantial Completion, as follows:

\$ 1,000.00 per calendar day.

6. REQUIREMENT FOR LICENSE NUMBER

In compliance with the requirements of Rhode Island General Law, Section 5-65-23, my Rhode Island license number for the work to be performed by this firm as prime contractor is:

LICENSE NUMBER: _____ .

7. ADDENDA

The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.

Addendum No. 1, dated _____.

Addendum No. 2, dated _____.

Addendum No. 3, dated _____.

Addendum No. 4, dated _____.

8. BID FORM SIGNATURE(S)

(Bidder's name)

By: _____

Title: _____

Corporate Seal:

END OF DOCUMENT

SECTION 09215**GYPSUM VENEER PLASTER****PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Gypsum veneer plaster on masonry, concrete, and gypsum wallboard assemblies. See interior elevation drawings for locations of veneer plaster overlay.

1.02 RELATED REQUIREMENTS**1.03 REFERENCE STANDARDS**

- A. ASTM C 587 - Standard Specification for Gypsum Veneer Plaster; 2004.
- B. ASTM C 843 - Standard Specification for Application of Gypsum Veneer Plaster; 1999 (Reapproved 2006).

1.04 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for submittals procedures.
- B. Product Data: Provide data on veneer plaster products.
- C. LEED Submittal: Documentation of recycled content and location of manufacture.

1.05 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing the work of this section with minimum seven years of experience.

1.06 FIELD CONDITIONS

- A. Do not apply veneer plaster when substrate or ambient air temperature is less than 50 degrees F nor more than 80 degrees F; for 24 hours prior to, during operations and after, until building heating system can maintain the above minimum temperature.

PART 2 PRODUCTS**2.01 MANUFACTURERS**

- A. Gypsum Veneer Plaster:
 - 1. Georgia-Pacific Gypsum LLC: www.gp.com/gypsum.
 - 2. National Gypsum Company: www.nationalgypsum.com.
 - 3. USG: www.usg.com.
 - 4. Substitutions: See Section 01600 - Product Requirements.

2.02 MATERIALS

- A. Gypsum Veneer Plaster: ASTM C 587, mixed in accordance with manufacturer's instructions.

PART 3 EXECUTION**3.01 EXAMINATION**

- A. Verify that substrates are ready to receive work.
- B. Verify masonry mortar joints are cut flush; verify surface is ready to receive work of this section. Verify no bituminous or water repellent coatings exist on masonry surface.
- C. Verify concrete surfaces are flat, honeycombs are filled flush, and surface is ready to receive work of this section. Verify no bituminous, water repellent, or form release agents exist on concrete surfaces.

- D. Verify gypsum board substrate is flat, joints are taped and sanded, and surface is ready to receive work of this Section. Verify joint and surface perimeter accessories are in place.
- E. Verify gypsum plaster base is flat, smooth and surface is ready to receive work. Verify joint and surface perimeter accessories are in place.

3.02 PREPARATION

- A. Clean surfaces of dust or loose matter.
- B. Remove projections greater than 1/8 inch and fill depressions greater than 1/4 inch with latex filler.

3.03 INSTALLATION - VENEER PLASTER

- A. Install gypsum veneer plaster in accordance with ASTM C 843 and manufacturer's instructions.
- B. Dampen masonry surfaces without leaving visible water on surface, to minimize suction from veneer plaster materials. Install veneer plaster immediately after dampening.
- C. At all interior walls noted on elevations as receiving plaster: Apply single coat to a thickness of 1/8 inch.
- D. Finish surface to flat, smooth, hard trowel finish.

3.04 TOLERANCES

- A. Maximum Variation From Specified Thickness: Plus or minus 1/64 inch.

3.05 PROTECTION

- A. Do not permit traffic near unprotected finished surfaces.

END OF SECTION



OFFICE OF CAPITAL PROJECTS

Sherman Building, 523 Plains Road, Kingston, RI 02881 USA p: 401.874.2725 f: 401.874.5599

Fire Sprinkler and Alarm System Impairment Notification Form

To: URI Office of Capital Projects

Date _____

Start of Planned Impairment: _____

End of Planned Impairment: _____

Building occupied during impairment: Yes: _____ No: _____

Any hot work to be performed: Yes: _____ No: _____

Description of Work to be performed:

Multiple horizontal lines for text entry.

URI Manager of Alarms, Mike Suriani, can also be directly contacted at 401-639-2268.

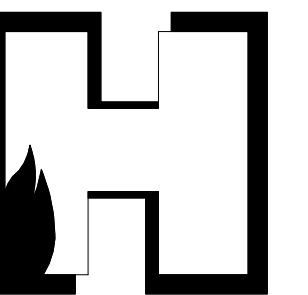
Contractor supervisory personnel shall remain in the building for the entire duration of the impairment.

Name: _____

Company: _____

Phone: _____

ATTACHMENT C – SUMMARY 01100



HAI PROJECT NO. 17JL06918.036

Hughes Associates, Inc.
Fire Protection Engineers
Code Consultants
New England Offices

Rhode Island
117 Metro Center Blvd.
Suite 1002
Warwick, RI 02886
Phone: (401) 736-8992
Fax: (401) 736-8929

Massachusetts
5 Mount Royal Ave., Suite 340
Marlborough, MA 01752
Phone: (508) 624-7766
Fax: (508) 624-7718

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No.	Description	Date
1	DESIGN ISSUES SET	03/25/10
2	CODE REVIEW SET	06/03/10
3	BID SET	10/25/10
4	FINAL BID SET	12/07/10
5	ADDENDUM #4	03/01/11

**BREWSTER
THORNTON
GROUP**

LLP
ARCHITECTS
150 Chestnut Street
Providence, RI
02903
Tel: 401.861.1600
Fax: 401.861.5568

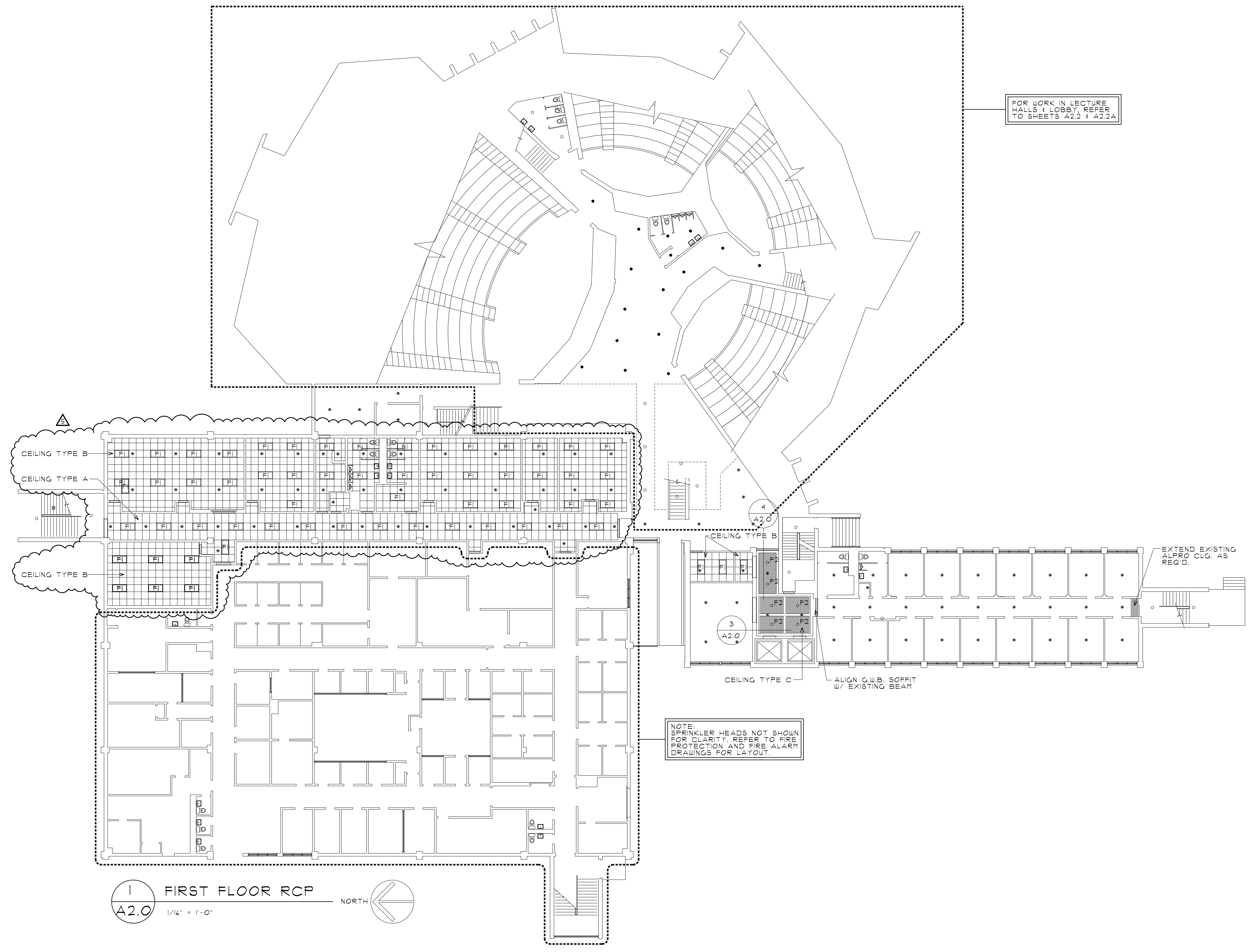
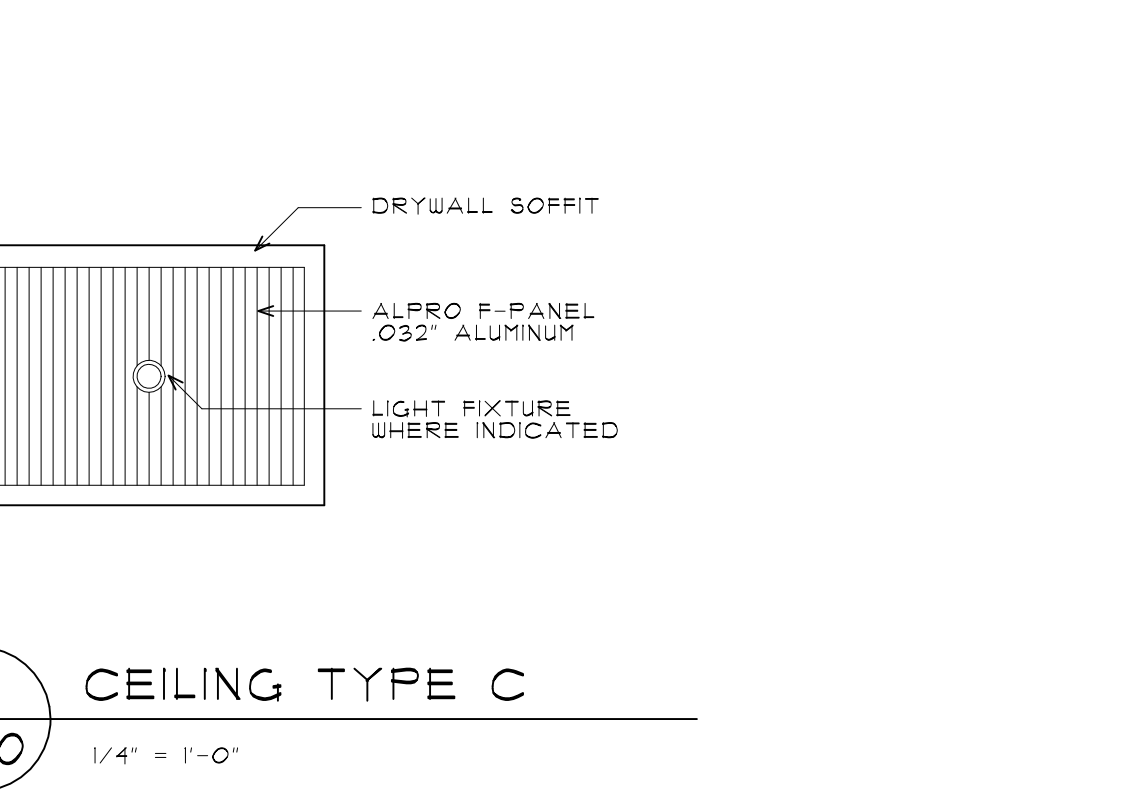
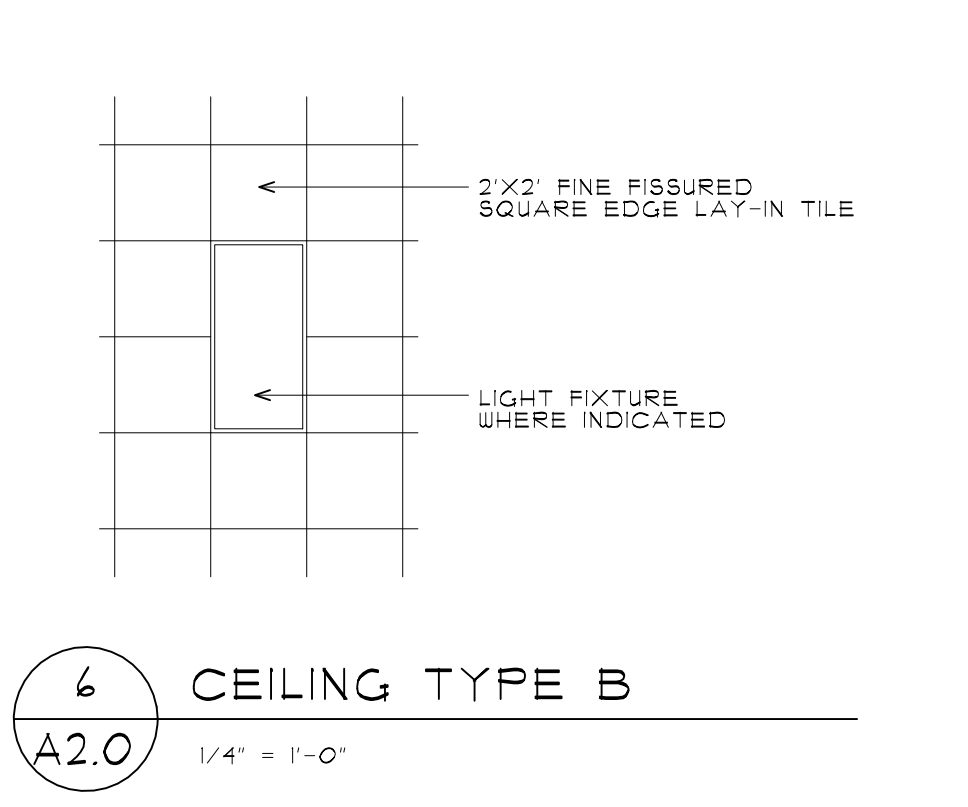
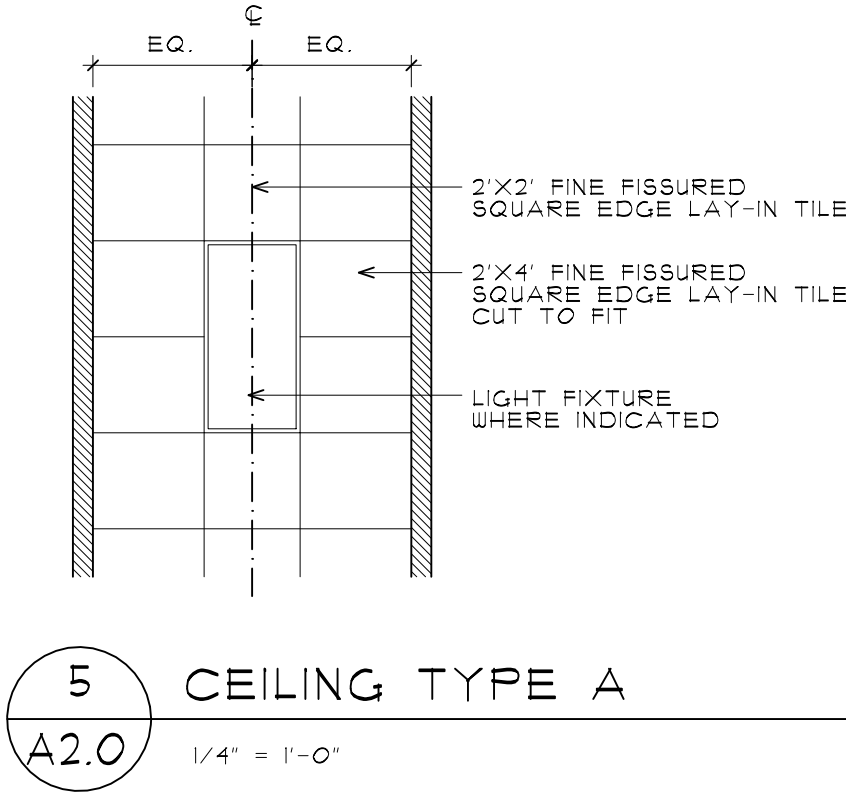
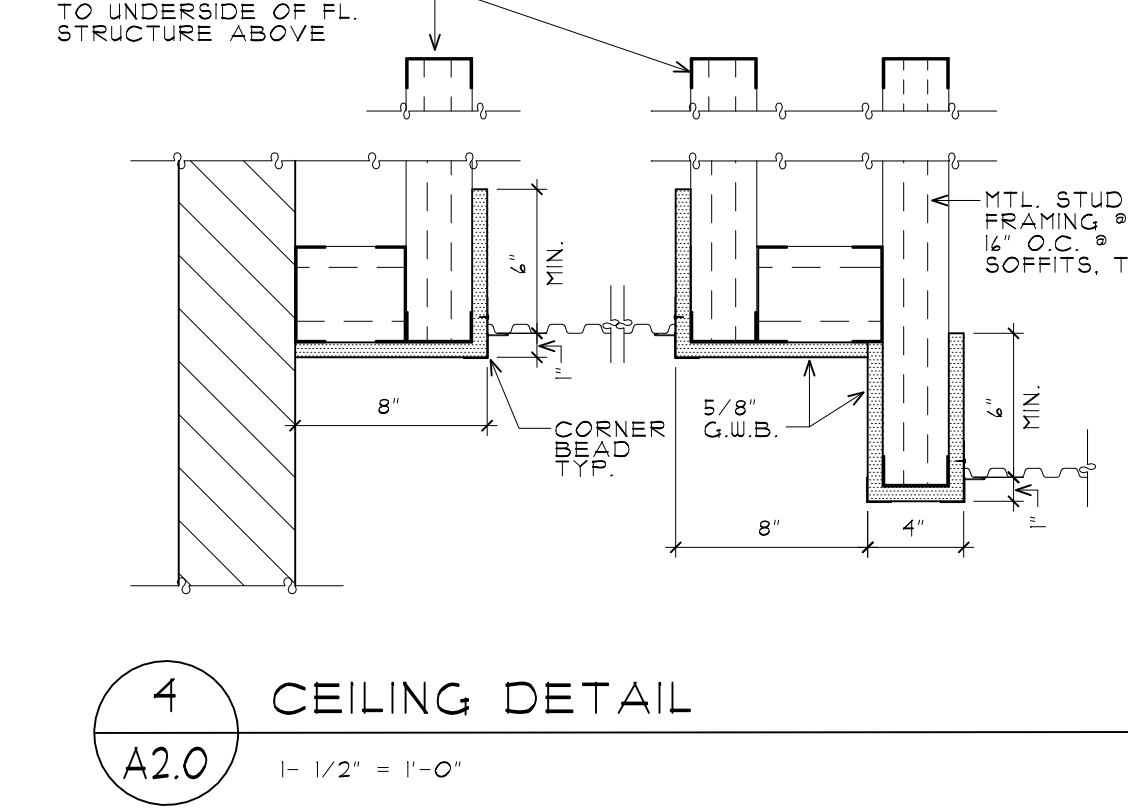
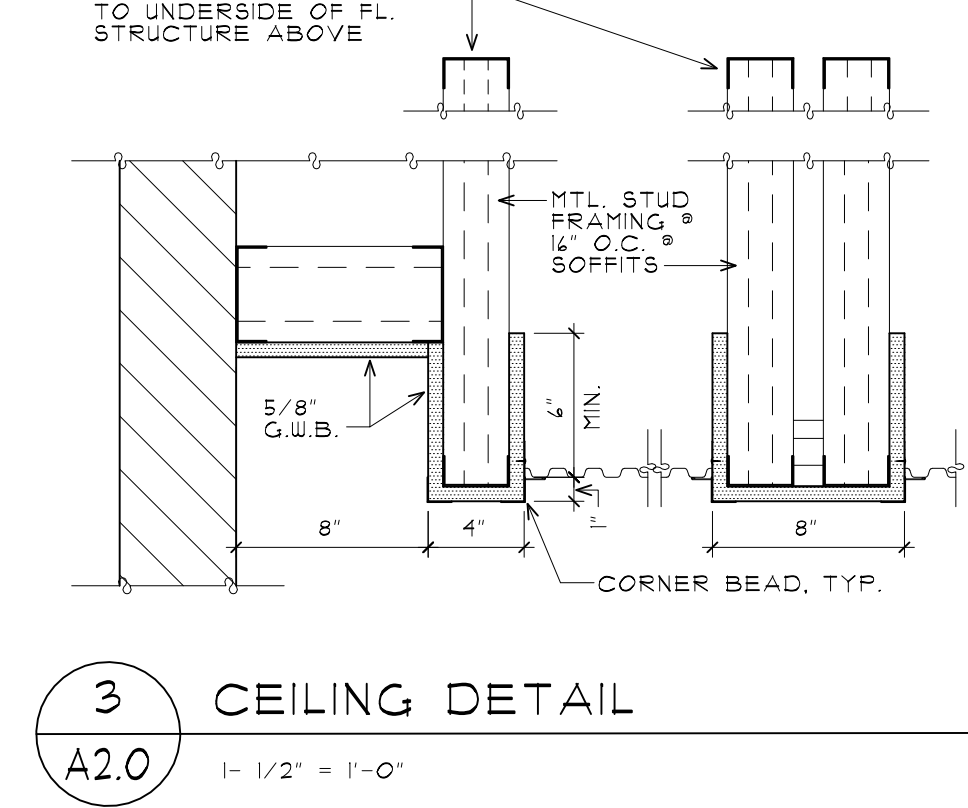
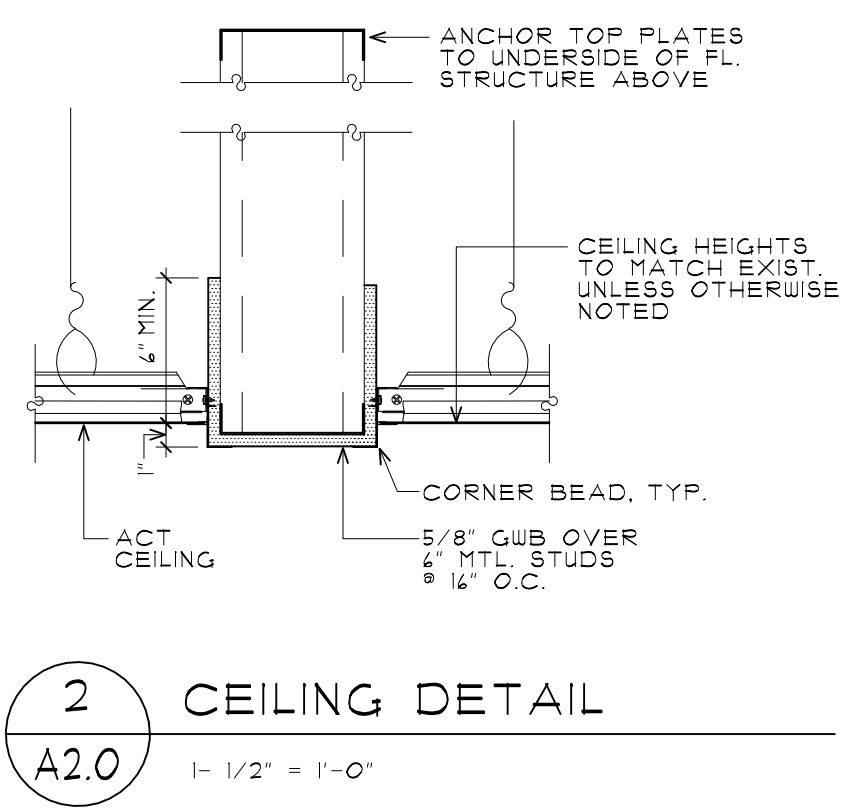
**JOHN H. CHAFEE
SOCIAL SCIENCE CENTER
UNIVERSITY OF RHODE
ISLAND
Kingston, Rhode Island**

RCP LEGEND

○ RECESSED CAN LIGHT	⊕ CEILING HVAC SUPPLY DIFFUSER
⊙ SPECIALTY CAN LIGHT	⊖ CEILING HVAC RETURN GRILLE
⊙ WALL MOUNTED FIXTURE	■ SPRINKLER HEAD
⊙ WALL WASHER	⊙ EXIT LIGHT
— TRACK LIGHT FIXTURE	⊙ SMOKE DETECTOR
'F-' FIXTURE KEY	⊙ HEAT DETECTOR - 135°
□ LIGHT FIXTURE	▽ EMERGENCY LIGHT
■ 2'x2' ACOUSTIC CEILING TILE	'X' EXISTING TO REMAIN

RCP NOTES

- ALL CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS.
- ALL SPRINKLER PIPING IS TO BE CONCEALED ABOVE FINISHED CEILING. SPRINKLER PIPE IS TO BE EXPOSED IN SPACES OPEN TO STRUCTURE ABOVE.
- REPLACE ALL CEILING TILES REMOVED FOR SPRINKLER INSTALLATION. REPLACE ALL TILES DAMAGED.
- REINSTALL ALL HVAC DIFFUSERS & GRILLES IN AREAS OF NEW CEILING.
- REFER TO A2.12 FOR LIGHT FIXTURE SCHEDULE.
- ALL LIGHTING IS TO BE WIRED TO EXISTING CIRCUITS AND SWITCHES OR LIGHTING CONTROLS OF LIGHTS BEING REPLACED.
- FIRE ALARM DEVICES AND SPRINKLER HEADS SHOWN FOR LOCATION & COORDINATION PURPOSES ONLY. REFER TO FA 1-FF DRAWINGS FOR COMPLETE SYSTEMS.



5 CEILING TYPE A
A2.0 1/4" = 1'-0"

6 CEILING TYPE B
A2.0 1/4" = 1'-0"

7 CEILING TYPE C
A2.0 1/4" = 1'-0"

1 FIRST FLOOR RCP
A2.0 1/4" = 1'-0"

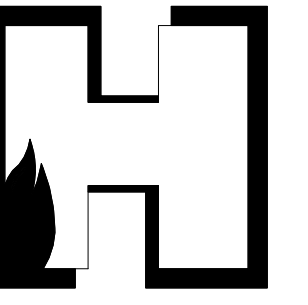
Scale
Project Description
Design
Drawing Title
Drawing No.

CHAFEE CENTER
Fire Protection Upgrade
University of Rhode Island
Kingston, Rhode Island

Scale: AS NOTED
Drawn: RGT
Design: NJG
Review: NJG

**FIRST FLOOR
REFLECTED CEILING
PLAN**

A2.0



HAI PROJECT NO. 17JL06918.036

Hughes Associates, Inc.
Fire Protection Engineers
Code Consultants
New England Offices

Rhode Island 117 Metro Center Blvd., Suite 100
Warwick, RI 02886
Phone: (401) 736-8992
Fax: (401) 736-8929

Massachusetts 5 Mount Royal Ave., Suite 340
Marlborough, MA 01752
Phone: (508) 624-7766
Fax: (508) 624-7718

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Submission History



**BREWSTER
THORNTON
GROUP**
LLP
ARCHITECTS
150 Chestnut Street
Providence, RI
02903
Tel: 401.861.1600
Fax: 401.861.5568

JOHN H. CHAFEE
SOCIAL SCIENCE CENTER
UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

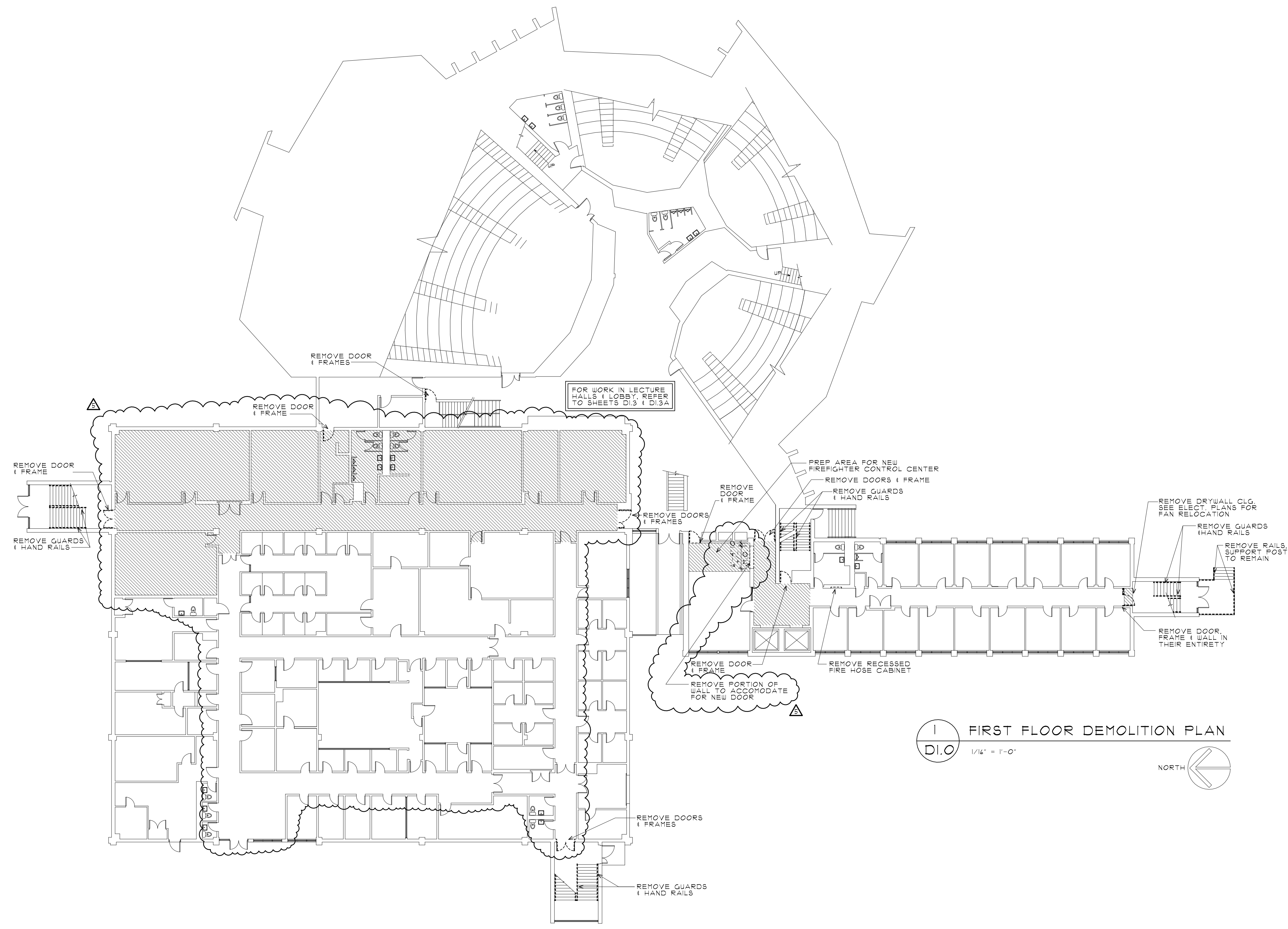
LEGEND

- INDICATES ITEM OR AREA TO REMAIN.
- - - - - INDICATES ITEM OR AREA TO BE REMOVED.
- - - - - PARTITION WALL TO BE REMOVED IN ITS ENTIRETY.
- - - - - EXISTING DOOR TO BE REMOVED.
- ▨ INDICATES EXISTING CEILING AND LIGHTING TO BE REMOVED.

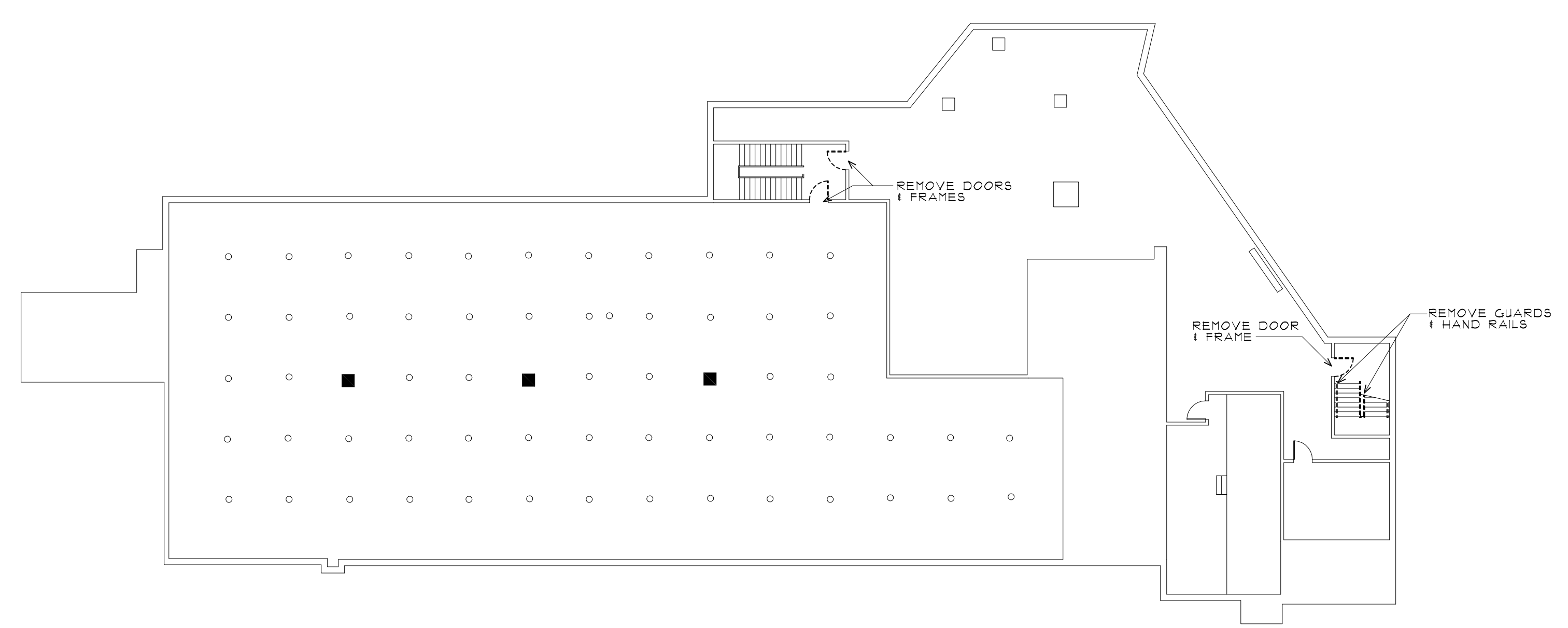
DEMOLITION NOTES

GENERAL:

- - - - - INDICATES ITEM OR AREA TO BE REMOVED.
- PROTECT ALL AREAS ADJACENT TO OR AFFECTED BY WORK DURING CONSTRUCTION. PROVIDE DUST CONTAINMENT FOR ALL WORK AREAS.
- CLEAN WORK AREA AND AREAS AFFECTED BY CUTTING AND PATCHING OPERATIONS.
- SEE DEMOLITION DRAWINGS FOR SPECIFIC NOTES.
- CAP ALL ABANDONED PLUMBING LINES AND ELECTRICAL OUTLETS. SEE PLUMBING, MECHANICAL, FIRE PROTECTION & ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- ALL PORTIONS OF THE BUILDING TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS OTHERWISE SPECIFIED.
- PRECAUTIONS AND TEMPORARY SHORING SHALL BE PLACED TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE THROUGHOUT DEMOLITION AND MASONRY WORK.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE AND ANY OTHER AUTHORITIES HAVING JURISDICTION PRIOR TO THE START OF DEMOLITION. COMPLY WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED TO COMPLETE THE WORK.
- PROVIDE WEATHER-TIGHT TEMPORARY PROTECTION FOR ALL OPENINGS IN EXTERIOR WALLS, ROOF, AND AT WINDOWS AND DOORS.
- SHOULD UNANTICIPATED SUSPECTED HAZARDOUS MATERIALS BE ENCOUNTERED, CONTRACTOR SHALL NOTIFY OWNER & ARCHITECT IMMEDIATELY FOR DIRECTION.
- REMOVE CUTTING AND PATCHING WORK TO PROPERLY COMPLETE THE WORK OF THE PROJECT, COMPLYING WITH PROJECT REQUIREMENTS FOR: a) STRUCTURAL WORK, b) MECHANICAL/ELECTRICAL SYSTEMS, c) VISUAL REQUIREMENTS, INCLUDING DETAILING AND TOLERANCES, d) OPERATIONAL AND SAFETY LIMITATIONS, e) FIRE RESISTANCE RATINGS, f) INSPECTION, PREPARATION AND PERFORMANCE, g) CLEANING.
- DO NOT CUT AND PATCH IN A MANNER THAT WOULD RESULT IN A FAILURE OF THE WORK TO PERFORM AS INTENDED, DECREASE ENERGY PERFORMANCE, INCREASE MAINTENANCE, DECREASE OPERATION LIFE, OR DECREASE SAFETY PERFORMANCE.
- MATCH EXISTING MATERIALS FOR CUTTING AND PATCHING WORK WITH NEW MATERIALS CONFORMING TO PROJECT REQUIREMENTS.
- INSPECT CONDITIONS PRIOR TO WORK TO IDENTIFY SCOPE AND TYPE OF WORK REQUIRED. NOTIFY OWNER OF WORK REQUIRING INTERRUPTION TO BUILDING SERVICES OR OWNER'S OPERATIONS.
- CUTTING: USE CUTTING TOOLS NOT CHOPPING TOOLS. MAKE NEAT HOLES. MINIMIZE DAMAGE TO ADJACENT WORK. INSPECT FOR CONCEALED UTILITIES AND STRUCTURE BEFORE CUTTING.
- PATCHING: MAKE PATCHES, SEAMS, AND JOINTS DURABLE AND INCONSPICUOUS.
- REFER TO NEW WORK SHEETS FOR RELEVANT DIMENSIONS AND ADDITIONAL NOTES WHERE APPLICABLE.
- REVIEW UNIQUE EXISTING CONDITIONS FOUND IN THE FIELD DURING DEMOLITION W/ ARCHITECT OR ENGINEER.
- CONTRACTOR TO ARRANGE FOR DISCONNECT AND CAPPING OF UTILITIES AS REQUIRED. PROTECT UTILITIES TO REMAIN. VERIFY LOCATION AND STATUS OF UTILITIES BEFORE BEGINNING DEMOLITION WORK.
- VERIFY WITH OWNER BEFORE STARTING WORK WHICH ITEMS ARE TO BE SALVAGED FOR THEIR USE OR REINSTALLATION. CAREFULLY REMOVE AND STORE SUCH ITEMS AS DIRECTED BY OWNER.
- FOUNDATIONS INDICATED FOR DEMO MUST BE REMOVED COMPLETELY AT AREAS OF FOUNDATION DEMOLITION. THE CONTRACTOR SHALL MAKE ACCOMMODATION FOR TEMPORARY STRUCTURAL SUPPORT TO MAINTAIN THE INTEGRITY OF THE EXCAVATION DURING THE WORK AS NECESSARY. PROVIDE ADEQUATE SECURITY AGAINST ACCIDENTAL TRESPASS. PROTECT EDGE OR EXCAVATION TO PREVENT FALLS.
- PROTECT ADJACENT AREAS AND STRUCTURES TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY AREAS OR SURFACES WHICH ARE DAMAGED BY THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS DURING DEMOLITION.
- ALL EXISTING HVAC GRILLES & DIFFUSERS ARE TO BE STOCKPILED FOR RE-INSTALLATION.



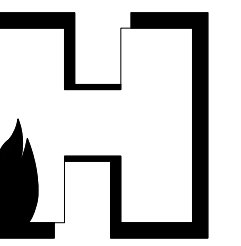
1 FIRST FLOOR DEMOLITION PLAN
D1.0 1/4" = 1'-0"
NORTH



2 BASEMENT DEMOLITION PLAN
D1.0 1/4" = 1'-0"
NORTH

Scale
Project Description
Design
Drawing Title
Drawing No.

Scale:	AS NOTED
Drawn:	RGT
Design:	NJG
Review:	NJG
Drawing Title	BASEMENT & FIRST FLOOR DEMOLITION PLANS
Drawing No.	D1.0



HAI PROJECT NO. 17JL00918.036

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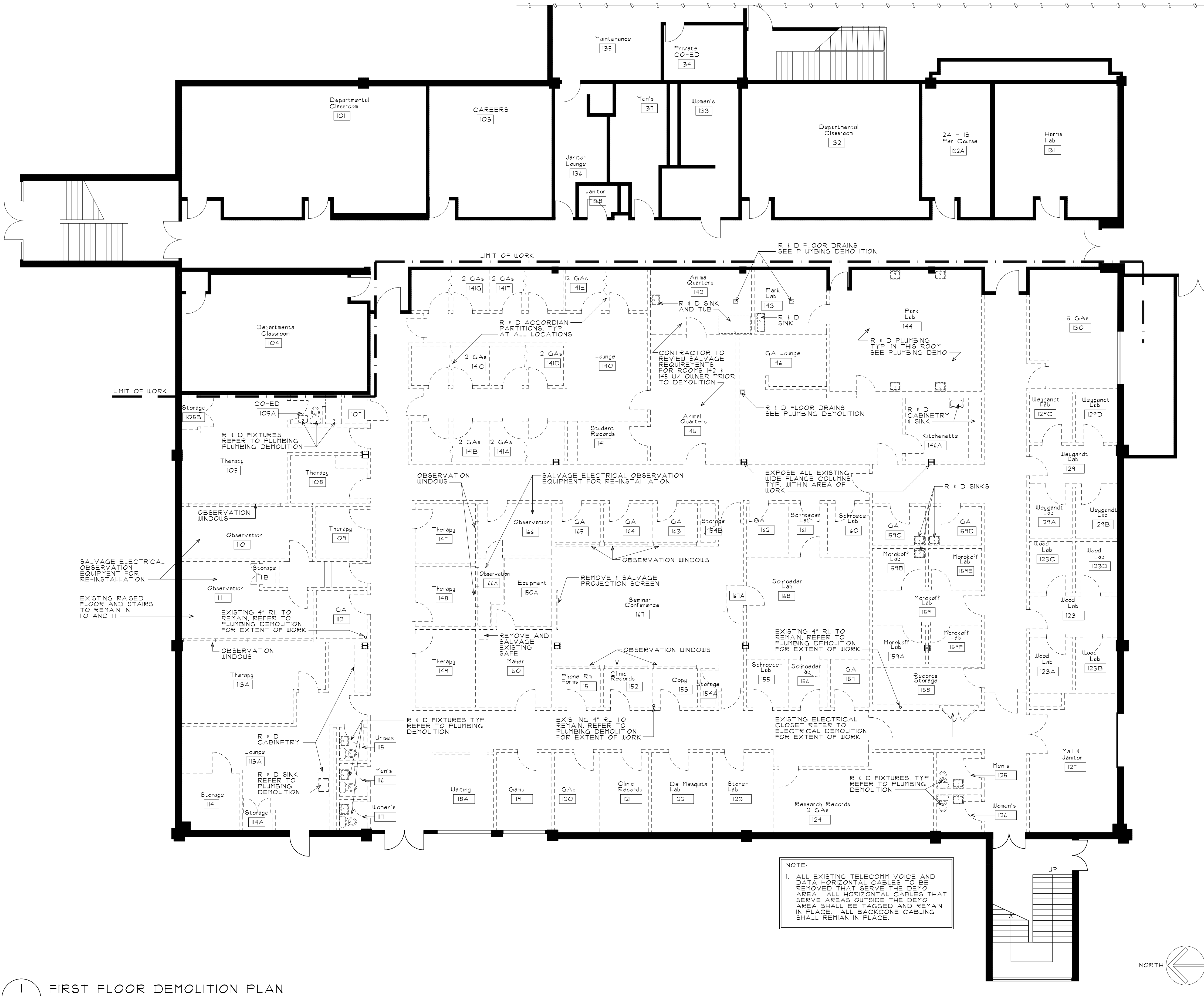
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5	ADDENDUM #4	03/01/11



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ISLAND
Kingston, Rhode Island



DEMOLITION PLAN NOTES

- UNLESS INDICATED OTHERWISE, ALL FLOORING, WALLS AND CEILINGS WITHIN LIMIT OF WORK TO BE DEMOLISHED.
- REFER TO MEP DEMOLITION DRAWINGS FOR ALL OTHER REQUIRED DEMOLITION WORK.
- COORDINATE DEMOLITION WITH OWNER AND ARCHITECT TO IDENTIFY ALL MATERIALS, EQUIPMENT AND FURNISHINGS TO BE SALVAGED AND STORED FOR FUTURE USE.
- ROOM NAMES AND NUMBERS INDICATE EXISTING USE. REFER TO AIG FOR NEW ROOM NAMES AND NUMBERS.
- REMOVE AND DISPOSE OF ALL EXISTING OBSERVATION WINDOWS.
- CONTRACTOR TO PROVIDE ALL REQUIRED WORK ZONE SIGNAGE AND BARRIERS TO ENSURE A SECURE WORK ZONE.
- ALL EXISTING A/V AND OBSERVATION EQUIPMENT IS TO BE SALVAGED AND STORED FOR REUSE AND REINSTALLATION.

DEMOLITION LEGEND

- INDICATES EXISTING WALL TO REMAIN.
- INDICATES ITEM OR AREA TO REMAIN.
- INDICATES ITEM OR AREA TO BE REMOVED.
- PARTITION WALL TO BE REMOVED IN ITS ENTIRETY.
- EXISTING DOOR TO BE REMOVED.

TYPICAL DEMOLITION NOTES

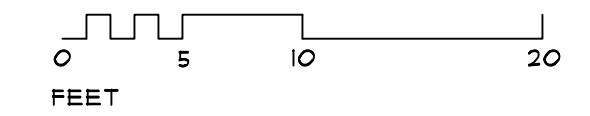
GENERAL:

- REFER TO DEMOLITION LEGEND FOR WORK INDICATORS.
- PROTECT ALL AREAS ADJACENT TO OR AFFECTED BY WORK DURING CONSTRUCTION. PROVIDE DUST CONTAINMENT FOR ALL WORK AREAS.
- CLEAN WORK AREA AND AREAS AFFECTED BY CUTTING AND PATCHING OPERATIONS.
- SEE DEMOLITION DRAWINGS FOR NOTES SPECIFIC TO EACH TRADE.
- CAP ALL ABANDONED PLUMBING LINES AND ELECTRICAL OUTLETS. SEE PLUMBING, MECHANICAL, FIRE PROTECTION & ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.
- ALL PORTIONS OF THE BUILDING TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF-SITE UNLESS DIRECTED OTHERWISE.
- PRECAUTIONS AND TEMPORARY SHORING SHALL BE PLACED TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE THROUGHOUT DEMOLITION AND MASONRY WORK.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE AND ANY OTHER AUTHORITIES HAVING JURISDICTION PRIOR TO THE START OF DEMOLITION TO COMPLY WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED TO COMPLETE THE WORK.
- PROVIDE WEATHER-TIGHT TEMPORARY PROTECTION FOR ALL OPENINGS IN EXTERIOR WALLS, ROOF, AND AT WINDOWS AND DOORS.
- SHOULD UNANTICIPATED SUSPECTED HAZARDOUS MATERIALS BE ENCOUNTERED, CONTRACTOR SHALL NOTIFY OWNER & ARCHITECT IMMEDIATELY FOR DIRECTION.
- PROVIDE CUTTING AND PATCHING WORK TO PROPERLY COMPLETE THE WORK OF THE PROJECT COMPLYING WITH PROJECT REQUIREMENTS FOR: a) STRUCTURAL WORK; b) MECHANICAL/ELECTRICAL SYSTEMS; c) VISUAL REQUIREMENTS, INCLUDING DETAILING AND TOLERANCES; d) OPERATIONAL AND SAFETY LIMITATIONS; e) FIRE RESISTANCE RATINGS; f) INSPECTION, PREPARATION AND PERFORMANCE; g) CLEANING.
- DO NOT CUT AND PATCH IN A MANNER THAT WOULD RESULT IN A FAILURE OF THE WORK TO PERFORM AS INTENDED, DECREASE ENERGY PERFORMANCE, INCREASE MAINTENANCE, DECREASE OPERATION LIFE, OR DECREASE SAFETY PERFORMANCE.
- MATCH EXISTING MATERIALS FOR CUTTING AND PATCHING WORK WITH NEW MATERIALS CONFORMING TO PROJECT REQUIREMENTS.
- INSPECT CONDITIONS PRIOR TO WORK TO IDENTIFY SCOPE AND TYPE OF WORK REQUIRED. NOTIFY OWNER OF WORK REQUIRING INTERRUPTION TO BUILDING SERVICES OR OWNER'S OPERATIONS.
- CUTTING: USE CUTTING TOOLS, NOT CHOPPING TOOLS. MAKE NEAR HOLES MINIMIZE DAMAGE TO ADJACENT WORK. INSPECT FOR CONGEALED UTILITIES AND STRUCTURE BEFORE CUTTING.
- PATCHING: MAKE PATCHES, SEAMS, AND JOINTS DURABLE AND INCONSPICUOUS.
- REFER TO NEW WORK SHEETS FOR RELEVANT DIMENSIONS AND ADDITIONAL NOTES WHERE APPLICABLE.
- REVIEW UNIQUE EXISTING CONDITIONS FOUND IN THE FIELD DURING DEMOLITION w/ ARCHITECT OR ENGINEER.
- CONTRACTOR TO ARRANGE FOR DISCONNECT AND CAPPING OF UTILITIES AS REQUIRED. PROTECT UTILITIES TO REMAIN. VERIFY LOCATION AND STATUS OF UTILITIES BEFORE BEGINNING DEMOLITION WORK.
- VERIFY WITH OWNER BEFORE STARTING WORK WHICH ITEMS ARE TO BE SALVAGED FOR THEIR USE OR REINSTALLATION. CAREFULLY REMOVE AND STORE SUCH ITEMS AS DIRECTED BY OWNER.
- AT MASONRY WALLS INDICATED FOR DEMO THE CONTRACTOR SHALL MAKE ACCOMMODATION FOR TEMPORARY STRUCTURAL SUPPORT TO MAINTAIN THE INTEGRITY OF THE BUILDING DURING THE WORK AS NECESSARY. PROVIDE ADEQUATE SECURITY AGAINST ACCIDENTAL TRESSASERS.
- PROTECT ADJACENT AREAS AND STRUCTURES TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR RESTORING ANY AREAS OR SURFACES WHICH ARE DAMAGED BY THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS DURING DEMOLITION.

NOTE:
1. ALL EXISTING TELECOMM VOICE AND DATA HORIZONTAL CABLES TO BE REMOVED THAT SERVE THIS DEMO AREA. ALL HORIZONTAL CABLES THAT SERVE AREAS OUTSIDE THE DEMO AREA SHALL BE TAGGED AND REMAIN IN PLACE. ALL BACKBONE CABLES SHALL REMAIN IN PLACE.

I FIRST FLOOR DEMOLITION PLAN

D1.B 1/8" = 1'-0"



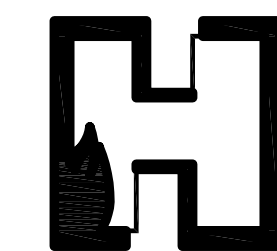
Seal

CHAFEE CENTER
Fire Protection Upgrade
University of Rhode Island
Kingston, Rhode Island

Scale: AS NOTED
Drawn: RGT
Design: NJG
Review: NJG

LOW RISE FIRST FLOOR
INTERIOR DEMOLITION
PLAN

D1.1B



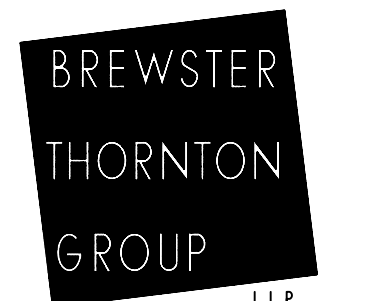
HAI PROJECT NO. 17JL06918.036

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Code Consultants

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UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

Scale

Project Description
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Fire Protection Upgrade
University of Rhode Island
Kingston, Rhode Island

Design
Scale: AS NOTED
Drawn: WMS
Design: WMS
Review: PDS

Drawing Title
ELECTRICAL DEMOLITION FLOOR PLAN

Drawing No.
E1.1B

EXISTING ITEMS NOTES:

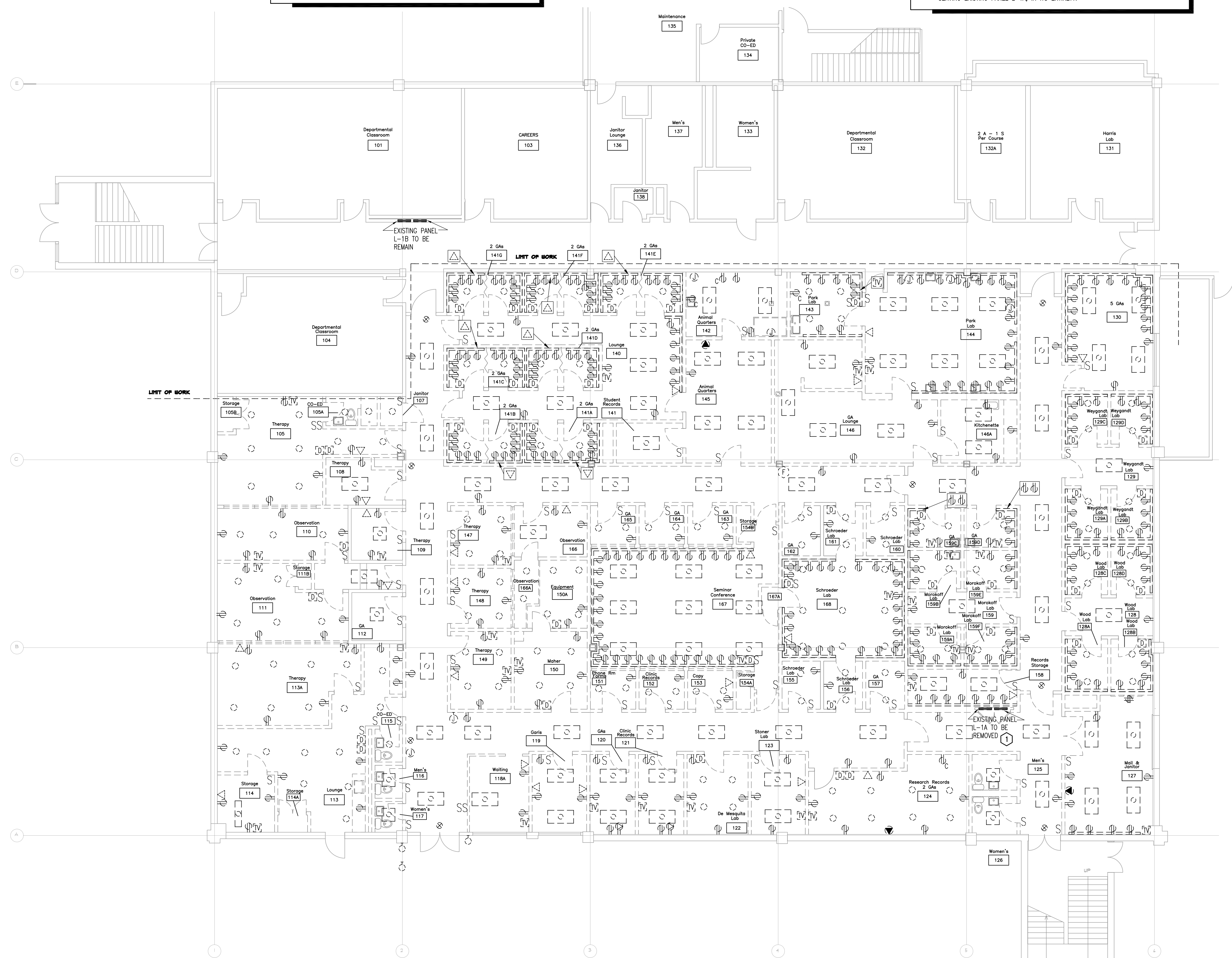
1. SYMBOLS SHOWN DASHED ARE EXISTING ITEMS TO BE REMOVED IN THEIR ENTIRETY, UNLESS NOTED OTHERWISE.

SHEET NOTE:

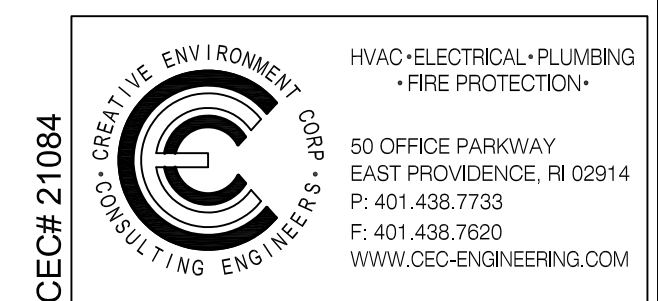
1. DISCONNECT AND EXTEND EIGHT EXISTING 120V, 20 AMP, BRANCH CIRCUITS, SERVING ROOMS 131, 132, & 132A TO EXISTING PANEL L-1B. TERMINATE WIRING TO EXISTING 1 POLE 20 AMP CIRCUIT BREAKERS. REMOVE THE REMAINING BRANCH CIRCUITS AND PANELBOARDS IN THEIR ENTIRETY. REMOVE THE EXISTING FEEDER, SERVING EXISTING PANEL L-1A, IN ITS ENTIRETY.

ELECTRICAL SYMBOL LEGEND

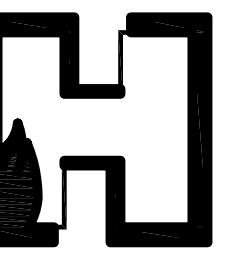
- LIGHTING**
- FLUORESCENT LIGHTING FIXTURE
 - ◻ FLUORESCENT LIGHTING FIXTURE
 - FLUORESCENT/HID LIGHTING FIXTURE
 - ⊕ WALL MOUNTED LIGHTING OUTLET
 - ⊗ EXIT SIGN
 - S SINGLE POLE SWITCH
 - D DIMMER SWITCH
- POWER**
- ⊕ JUNCTION BOX
 - ⊕ DUPLEX RECEPTACLE
 - ⊕ QUADRUPLEX RECEPTACLE
 - ⊕ SPECIAL PURPOSE OUTLET
 - ⊕ ELECTRIC PANEL, SURFACE MOUNTED
 - ⊕ TEL/DATA OUTLET
 - ⊕ TELEVISION OUTLET
 - ⊕ MOTOR
 - ⊕ SURFACE MOUNTED WIREMOLD



ELECTRICAL DEMOLITION FLOOR PLAN
ED1.1
1/8" = 1'-0"
NORTH



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HAI PROJECT NO. 17JL00918.036

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Fire Protection Engineers
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New England Offices

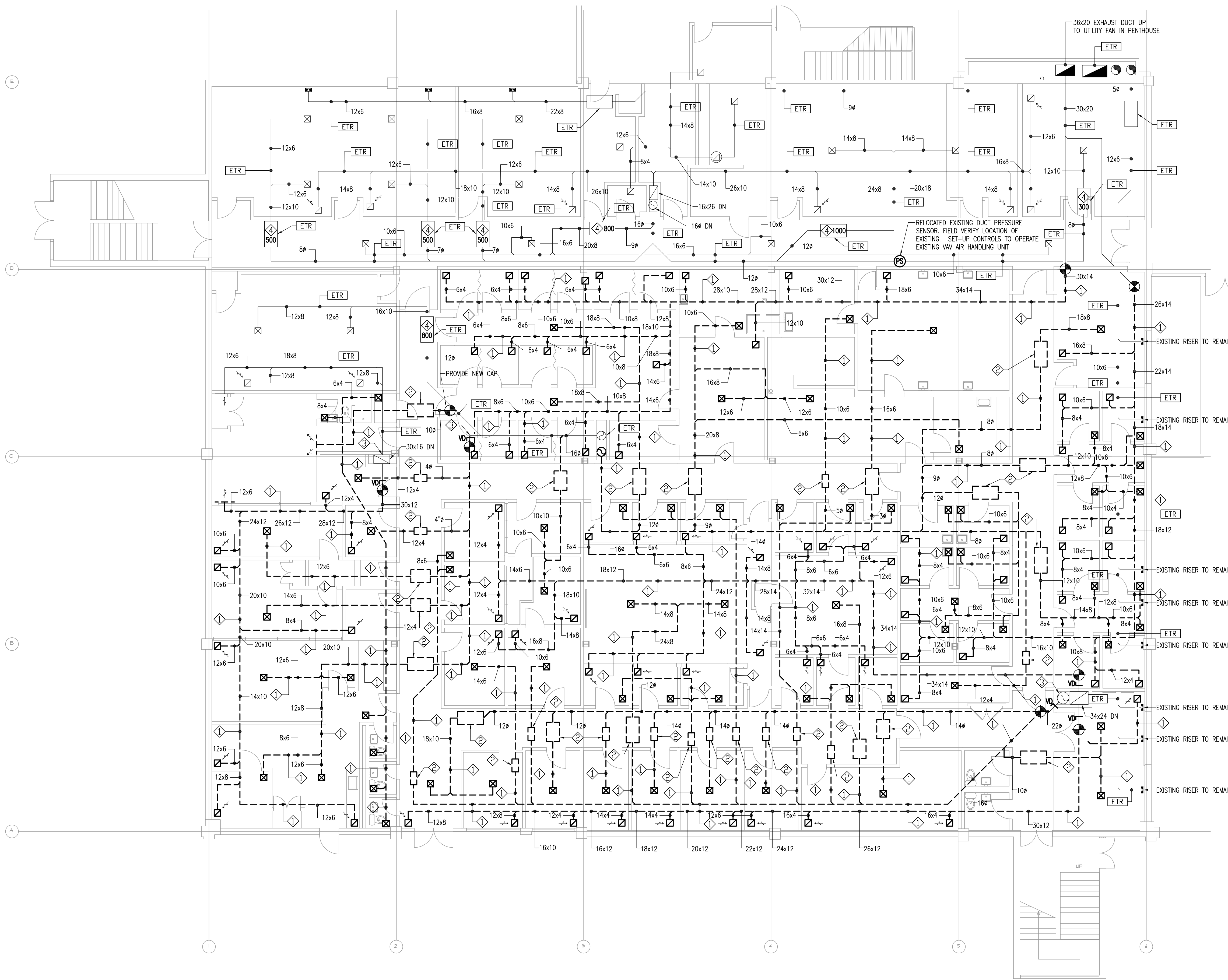
Rhode Island: 117 Metro Center Blvd., Suite 1002, Warwick, RI 02886, Phone: (401) 736-8992, Fax: (401) 736-8992
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5	ADDENDUM #1	03/01/11

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SOCIAL SCIENCE CENTER
UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island



GENERAL DEMOLITION NOTES:

UNDER DEMOLITION, THE FOLLOWING IS, IN BRIEF, THE EXTENT OF THE WORK TO BE PERFORMED BY THE MECHANICAL CONTRACTOR UNDER THIS CONTRACT:

- CONTRACTOR SHALL VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. DEMOLITION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING.
- ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED DEMOLITION PERMITS.
- PRIOR TO COMMENCING DEMOLITION, CONTRACTOR SHALL IDENTIFY WITH OWNER ANY EQUIPMENT TO BE RETURNED TO THE OWNER AFTER DEMOLITION. ALL OTHER DEBRIS SHALL BE DISPOSED OF BY THIS CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- IT IS NOT THE INTENT TO SHOW EVERY PIPE OR EQUIPMENT, AND EXACT SIZES TO BE REMOVED IN THE DEMOLITION WORK. DRAWING INDICATES EQUIPMENT, PIPING, DUCTWORK, AND SIZES DIAGRAMMATICALLY. EXACT LOCATION AND SIZE OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS BY THE CONTRACTOR. ALL EXISTING MECHANICAL EQUIPMENT AND PIPING NOT BEING USED FOR THE NEW SYSTEM SHALL BE REMOVED AND DISPOSED OF, WHETHER NOTED OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVING AND DISPOSING OF ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, VALVES, CONTROLS, AND ELECTRICAL AS SHOWN ON DRAWINGS, EXCEPT WHERE NOTED OTHERWISE.
- THE EXISTING CONTROL SYSTEM SHALL MAINTAIN OPERATIONAL. EXISTING DUCT SENSOR SHALL BE RELOCATED AS REQUIRED TO MAINTAIN EXISTING VARIABLE AIR HANDLING UNIT.

DUCTWORK DEMOLITION KEYNOTES:

- ETR - EXISTING TO REMAIN
 - ◇ - REMOVE AND DISPOSE OF EXISTING DUCTWORK, GRILLES, SUPPORTS, INSULATION AND ALL RELATED APPURTENANCES.
 - ② - REMOVE AND DISPOSE OF EXISTING VAV BOX WITH RE-HEAT COIL, SUPPORT, PIPING, CONTROLS, DUCTWORK AND ALL RELATED APPURTENANCES.
 - ③ - EXISTING SUPPLY AND RETURN DUCT RISER SHALL REMAIN IN PLACE. PROVIDE A NEW VOLUME AIR DAMPER ON EXISTING DUCT. FIELD VERIFY EXACT DUCT SIZE AND PROVIDE NEW VOLUME DAMPER. BALANCE AIR TO 2000 CFM.
 - ④ - TEST AND BALANCE EXISTING VAV BOX AND DUCTWORK TO CFM INDICATED ON PLAN.
- EXISTING AIR HANDLING UNIT LOCATED IN THE BASEMENT SHALL BE TESTED, REBALANCED AND ADJUSTED TO RUN WITH NEW MODIFICATIONS.

LEGEND

- EXISTING EQUIPMENT & DUCTWORK TO BE REMOVED AND DISCARDED
- EXISTING EQUIPMENT & DUCTWORK TO REMAIN
- ⊙ DEMO POINT OF DEMOLITION. VERIFY SIZE & LOCATION IN FIELD
- EXISTING TO REMAIN
- VARIABLE AIR VOLUME BOX
- VD NEW VOLUME AIR DAMPER

1 FIRST FLOOR DUCTWORK-DEMOLITION PLAN
M1.1
1/8" = 1'-0" NORTH

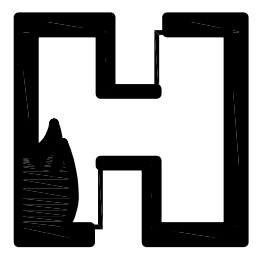
CEC# 21084
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Project Description: **CHAFEE CENTER**
Fire Protection Upgrade
University of Rhode Island
Kingston, Rhode Island

Scale: AS NOTED
Drawn: GAA
Design: GAA
Review: RCN

Drawing Title: **FIRST FLOOR DUCTWORK DEMOLITION PLAN**

Drawing No: **M1.1B**



HAI PROJECT NO. 17JL00918.036

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Kingston, Rhode Island

Seal

CHAFEE CENTER
Fire Protection Upgrade
University of Rhode Island
Kingston, Rhode Island

Scale: AS NOTED
Drawn: GAA
Design: GAA
Review: RCN

FIRST FLOOR PIPING DEMOLITION PLAN

M1.2B



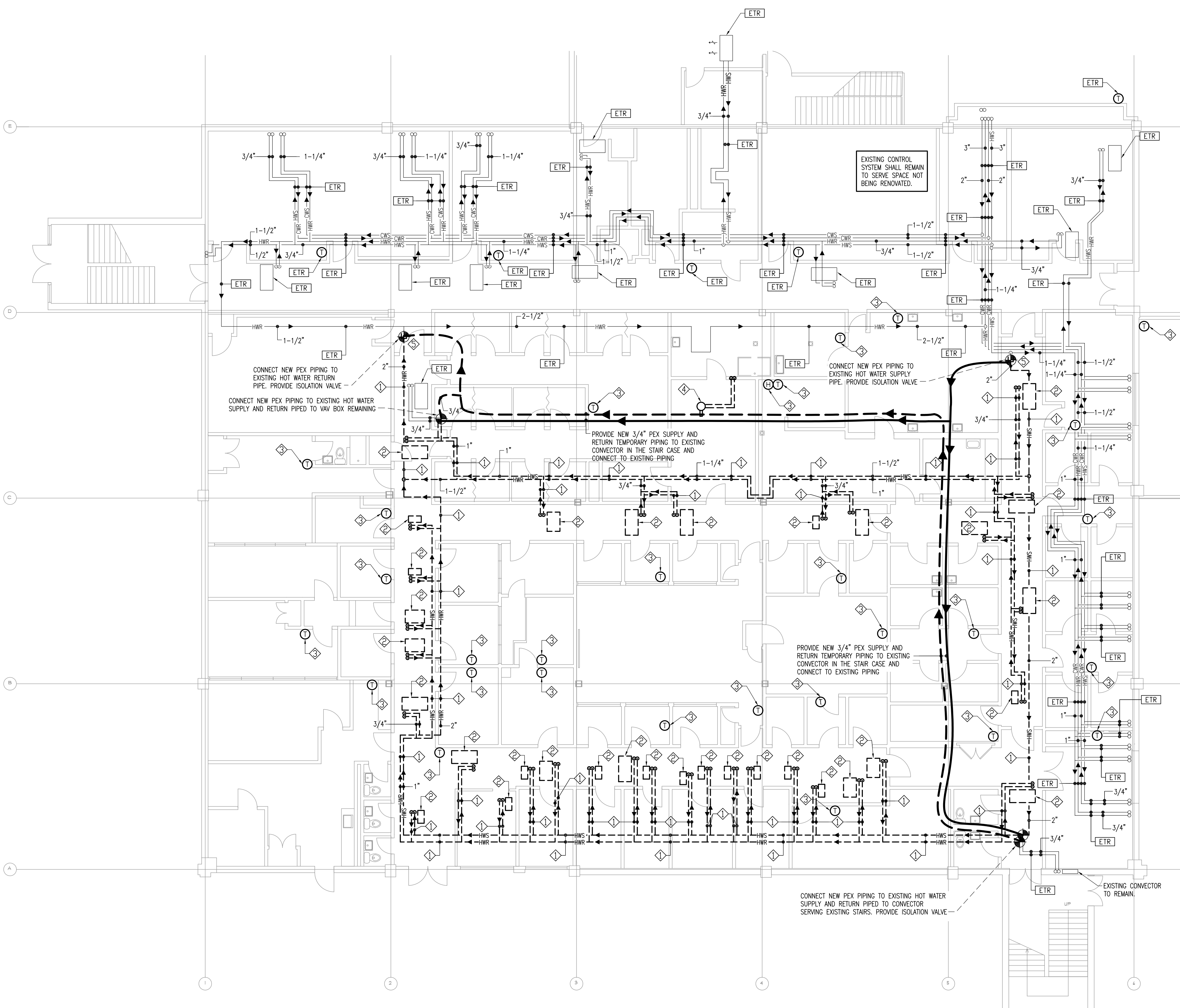
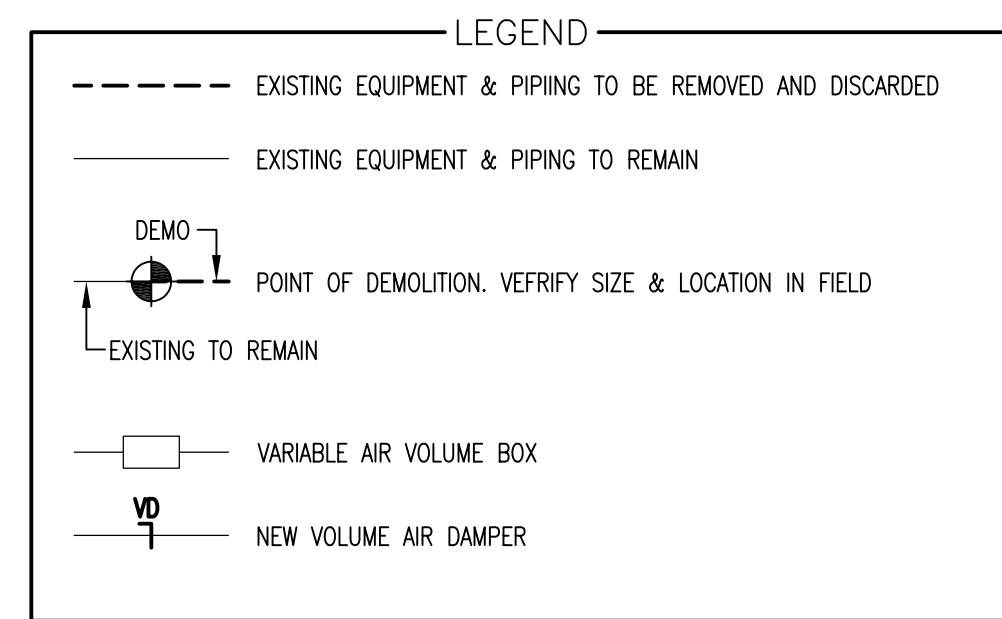
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GENERAL DEMOLITION NOTES:

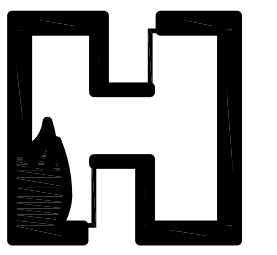
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- ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED DEMOLITION PERMITS.
- PRIOR TO COMMENCING DEMOLITION, CONTRACTOR SHALL IDENTIFY WITH OWNER ANY EQUIPMENT TO BE RETURNED TO THE OWNER AFTER DEMOLITION. ALL OTHER DEBRIS SHALL BE DISPOSED OF BY THIS CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- IT IS NOT THE INTENT TO SHOW EVERY PIPE OR EQUIPMENT, AND EXACT SIZES TO BE REMOVED IN THE DEMOLITION WORK. DRAWING INDICATES EQUIPMENT, PIPING, DUCTWORK, AND SIZES DIAGRAMMATICALLY. EXACT LOCATION AND SIZE OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS BY THE CONTRACTOR. ALL EXISTING MECHANICAL EQUIPMENT AND PIPING NOT BEING USED FOR THE NEW SYSTEM SHALL BE REMOVED AND DISPOSED OF, WHETHER NOTED OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVING AND DISPOSING OF ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, PIPING, VALVES, CONTROLS, AND ELECTRICAL AS SHOWN ON DRAWINGS, EXCEPT WHERE NOTED OTHERWISE.
- THE EXISTING CONTROL SYSTEM SHALL MAINTAIN OPERATIONAL. EXISTING DUCT SENSOR SHALL BE RELOCATED AS REQUIRED TO MAINTAIN EXISTING VARIABLE AIR HANDLING UNIT.

PIPING DEMOLITION KEYNOTES:

- ETR - EXISTING TO REMAIN
- 1 - REMOVE AND DISPOSE OF EXISTING PIPING, VALVES, HANGERS, INSULATION AND ALL RELATED APPURTENANCES.
- 2 - REMOVE AND DISPOSE OF EXISTING VAV BOX WITH RE-HEAT COIL, SUPPORT, PIPING, CONTROLS, DUCTWORK AND ALL RELATED APPURTENANCES.
- 3 - REMOVE AND DISPOSE OF EXISTING THERMOSTAT WIRING, PNEUMATIC TUBING AND ALL RELATED APPURTENANCES.
- 4 - REMOVE AND DISPOSE OF EXISTING DUCT HUMIDIFIER, STEAM PIPING, CONTROLS AND ALL RELATED APPURTENANCES.
- 5 - CONNECT TO EXISTING PIPE. PROVIDE NEW ISOLATION VALVE.



1 FIRST FLOOR PIPING-DEMOLITION PLAN
M1.2 1/8" = 1'-0" NORTH



HAI PROJECT NO. 17JL06918.036

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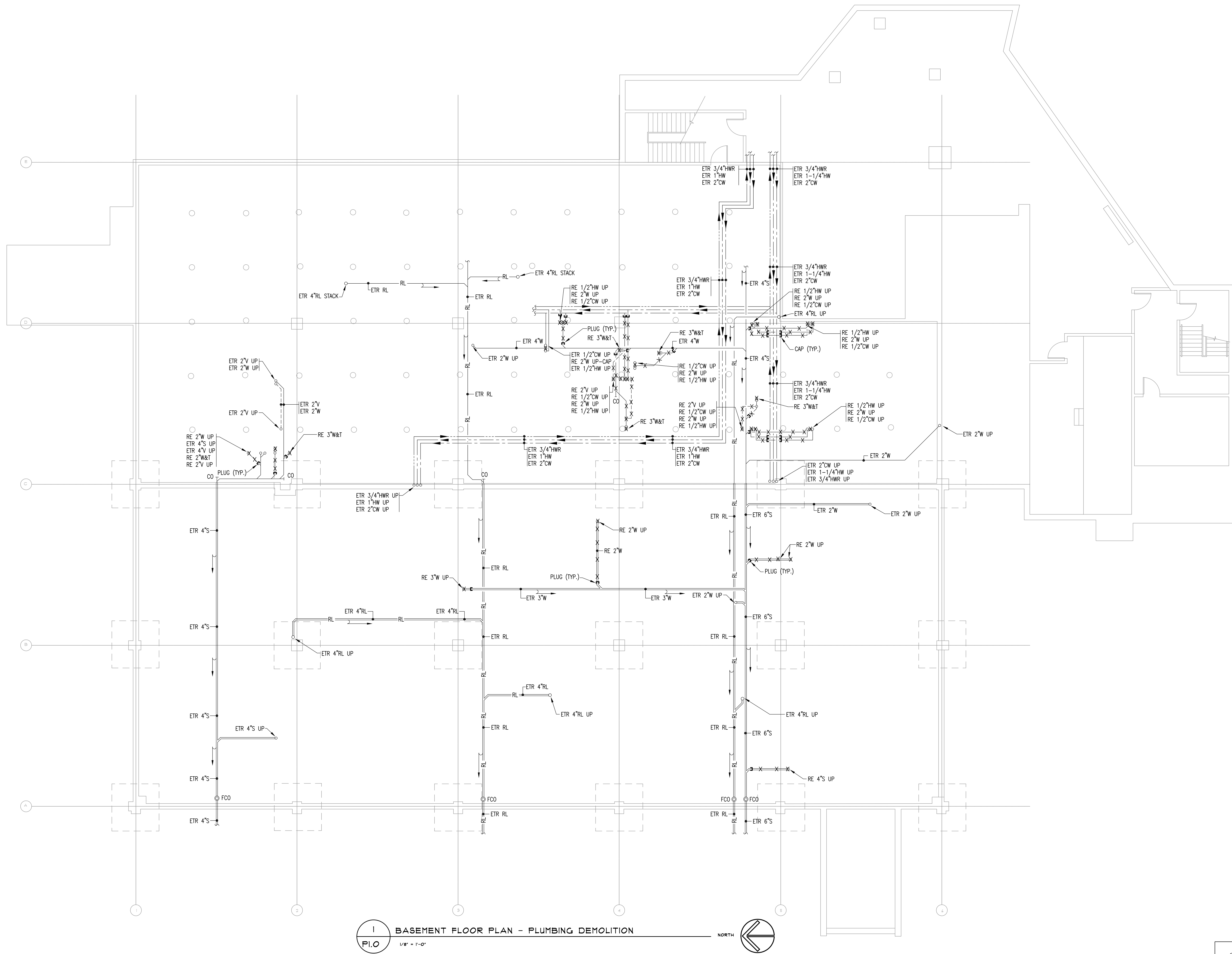
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SOCIAL SCIENCE CENTER
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Kingston, Rhode Island

CHAFFEE CENTER
Fire Protection Upgrade
University of Rhode Island
Kingston, Rhode Island

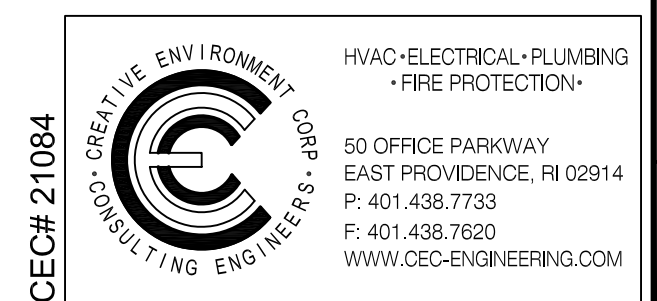
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Drawn: WJA
Design: WJA
Review: WJA

BASEMENT FLOOR PLAN - PLUMBING DEMOLITION

P1.0B

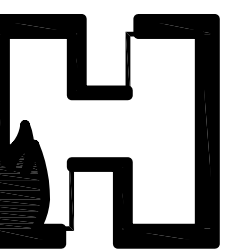


I BASEMENT FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0" NORTH



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Seal
Project Description
Design
Drawing Title
Drawing No.



HAI PROJECT NO. 171L0918.056

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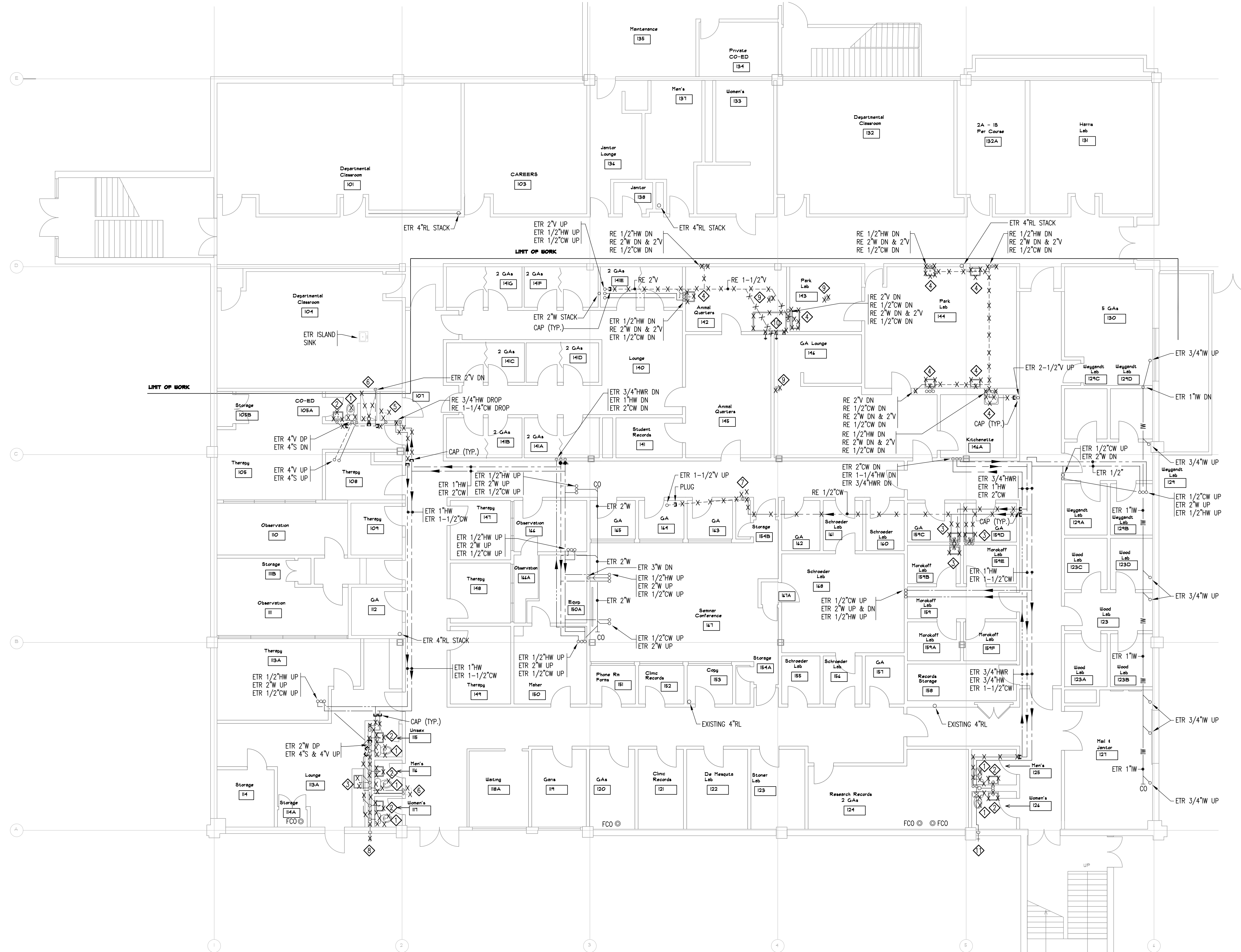
No.	Description	Date
1	DESIGN ISSUES SET	03/25/10
2	CODE REVIEW SET	05/03/10
3	BID SET	10/25/10
4	FINAL BID SET	12/07/10
5	ADDENDUM #4	03/01/11

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JOHN H. CHAFEE
SOCIAL SCIENCE CENTER
UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

- GENERAL DEMOLITION NOTES:**
1. THE CONTRACTOR RESPONSIBLE FOR THE DEMOLITION OF THE EXISTING PLUMBING FIXTURES AND PIPING SHALL BE REQUIRED TO VISIT THE PROJECT SITE TO FAMILIARIZE THEMSELVES WITH THE FULL EXTENT OF WORK REQUIRED. VERIFY FIXTURE TYPES, QUANTITIES AND LOCATIONS. VERIFY WALL, CEILING AND FLOOR CONSTRUCTION. VERIFY AS MUCH OF THE EXISTING PIPING SYSTEM AS POSSIBLE. THIS FIELD VISIT SHALL BE CONDUCTED DURING THE BID PROCESS. BIDS SHALL BE BASED ON INFORMATION GATHERED DURING THIS VISIT.
 2. REMOVE ALL PLUMBING FIXTURES STORE ALL FIXTURES IN A LOCATION DESIGNATED BY THE OWNER. COORDINATE THE LOCATION WITH THE OWNER. REMOVALS SHALL INCLUDE ANY SANITARY WASTE & VENT PIPING, HOT & COLD WATER PIPING, VALVES AND HANGERS INDICATED ON THE DRAWINGS. THIS CONTRACTOR SHALL REVIEW ALL REQUIRED POINTS OF RECONNECTION TO EXISTING WATER & SANITARY SYSTEM ABOVE & BELOW THE SLAB UNDER THE SCOPE OF NEW PLUMBING WORK AND SHALL MINIMIZE ANY NEW WORK BELOW THE EXISTING SLAB AT ALL TIMES. REMOVE ANY EXISTING PLUMBING WATER AND/OR WASTE PIPE FOUND TO BE ABANDONED. REFER TO RENOVATION DRAWINGS FOR NEW PLUMBING WORK.
 3. ALL REMOVED PLUMBING FIXTURES SHALL BECOME THE PROPERTY OF THE OWNER. VERIFY WITH OWNER AS TO WHICH FIXTURES ARE TO BE STORED AND WHICH FIXTURES ARE TO BE DISPOSED OF.
 4. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW CUTTING, CORING AND PATCHING REQUIRED FOR THE INSTALLATION OF NEW WORK, AND FOR THE REMOVAL OF EXISTING WORK. COORDINATE EXTENT OF THE LIMIT OF WORK BEFORE BIDS ARE ISSUED.
 5. THE SITE SHALL BE LEFT BROOM CLEAN AND ALL DEBRIS SHALL BE REMOVED FROM THE SITE.
 6. ALL PIPING RENDERED OBSOLETE SHALL BE REMOVED AND CAPPED BACK AT THE NEAREST LIVE MAIN. DO NOT LEAVE ANY "DEAD-ENDED" SANITARY PIPING.
 7. REMOVE EXISTING HANGERS AND SUPPORTS ASSOCIATED WITH PIPING THAT HAS BEEN REMOVED.

- DEMOLITION KEYED NOTES**
- ◆ DISCONNECT AND REMOVE EXISTING WATER CLOSET AND ASSOCIATED SANITARY, VENT AND COLD WATER. CUT BACK SANITARY TO BELOW FLOOR SLAB, WITHIN 24" OF ACTIVE MAIN, AND PLUG AS REQUIRED. CUT BACK ASSOCIATED COLD WATER AND VENT TO ACTIVE MAINS, ABOVE CEILING, AND CAP AS REQUIRED.
 - ◆ DISCONNECT AND REMOVE EXISTING LAVATORY AND ASSOCIATED WASTE, VENT, HOT AND COLD WATER. CUT BACK WASTE TO BELOW FLOOR SLAB, WITHIN 24" OF ACTIVE MAIN, AND PLUG AS REQUIRED. CUT BACK ASSOCIATED VENT, HOT AND COLD WATER TO ACTIVE MAINS, ABOVE CEILING, AND CAP AS REQUIRED.
 - ◆ DISCONNECT AND REMOVE EXISTING SINK AND ASSOCIATED WASTE, VENT, HOT AND COLD WATER. CUT BACK WASTE TO BELOW FLOOR SLAB, WITHIN 24" OF ACTIVE MAIN, AND PLUG AS REQUIRED. CUT BACK ASSOCIATED VENT, HOT AND COLD WATER TO ACTIVE MAINS, ABOVE CEILING, AND CAP AS REQUIRED.
 - ◆ DISCONNECT AND REMOVE EXISTING SINK AND ASSOCIATED WASTE, VENT, HOT AND COLD WATER. CUT BACK WASTE TO BELOW FLOOR SLAB, WITHIN 24" OF ACTIVE MAIN, AND CAP/PLUG AS REQUIRED. CUT BACK ASSOCIATED VENT ACTIVE MAIN, ABOVE CEILING, AND CAP AS REQUIRED.
 - ◆ DISCONNECT AND REMOVE EXISTING SERVICE SINK AND ASSOCIATED WASTE, VENT, HOT AND COLD WATER. CUT BACK WASTE TO BELOW FLOOR SLAB, WITHIN 24" OF ACTIVE MAIN, AND PLUG AS REQUIRED. CUT BACK ASSOCIATED VENT, HOT AND COLD WATER TO ACTIVE MAINS, ABOVE CEILING, AND CAP AS REQUIRED.
 - ◆ DISCONNECT AND REMOVE EXISTING SHOWER AND ASSOCIATED WASTE, VENT, HOT AND COLD WATER. CUT BACK WASTE AND VENT TO BELOW FLOOR SLAB, WITHIN 24" OF ACTIVE MAIN, AND PLUG AS REQUIRED. CUT BACK ASSOCIATED VENT, HOT AND COLD WATER TO ACTIVE MAINS, ABOVE CEILING, AND CAP AS REQUIRED.
 - ◆ DISCONNECT AND REMOVE EXISTING DRINKING FOUNTAIN AND ASSOCIATED WASTE, VENT, AND COLD WATER. CUT BACK WASTE TO BELOW FLOOR SLAB, WITHIN 24" OF ACTIVE MAIN, AND PLUG AS REQUIRED. CUT BACK ASSOCIATED VENT AND COLD WATER TO ACTIVE MAINS, ABOVE CEILING, AND CAP AS REQUIRED.
 - ◆ REMOVE EXISTING WALL HYDRANT AND ASSOCIATED COLD WATER LINE BACK TO ACTIVE MAIN, AND CAP AS REQUIRED.
 - ◆ DISCONNECT AND REMOVE EXISTING FLOOR DRAIN AND ASSOCIATED WASTE AND VENT. CUT BACK WASTE PIPING TO BELOW FLOOR SLAB, WITHIN 24" OF ACTIVE MAIN, AND PLUG AS REQUIRED. CUT BACK ASSOCIATED VENT TO ACTIVE MAIN, ABOVE CEILING, AND CAP AS REQUIRED.
 - ◆ DISCONNECT AND REMOVE EXISTING CAGE WASHER AND ASSOCIATED WASTE, VENT, HOT AND COLD WATER. CUT BACK WASTE, HOT AND COLD WATER TO BELOW FLOOR SLAB, WITHIN 24" OF ACTIVE MAIN, AND CAP/PLUG AS REQUIRED. CUT BACK ASSOCIATED VENT ACTIVE MAIN, ABOVE CEILING, AND CAP AS REQUIRED.
 - ◆ EXISTING WALL HYDRANT TO REMAIN. CAP ASSOCIATED 3/4" CW LINE FOR RE-CONNECTION - SEE NEW WORK PLANS.



1 FIRST FLOOR PLAN - PLUMBING DEMOLITION
P1.1 1/8" = 1'-0" NORTH

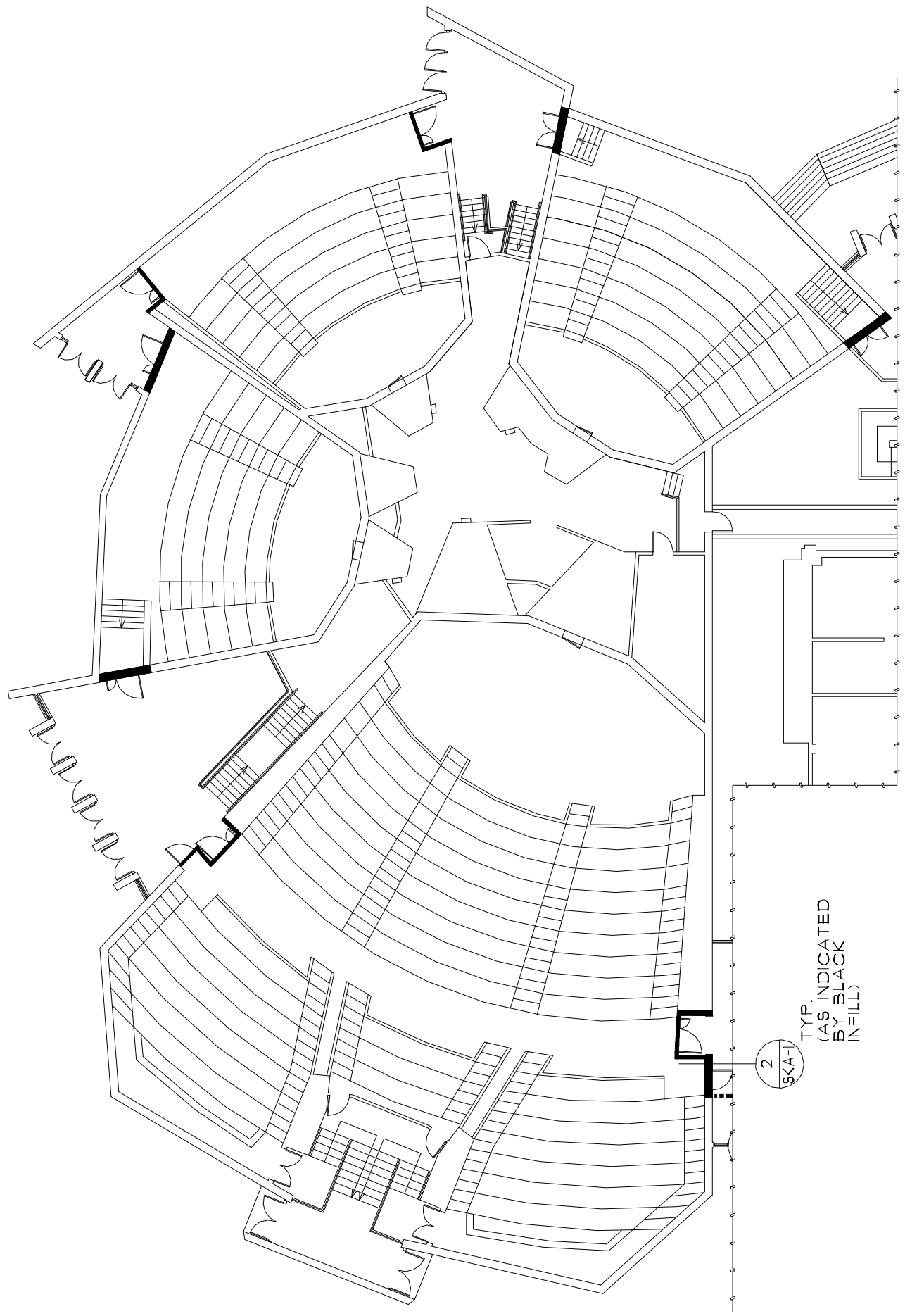
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CHAFEE CENTER
Fire Protection Upgrade
University of Rhode Island
Kingston, Rhode Island

Scale: AS NOTED
Drawn: WJA
Design: WJA
Review: RCN

FIRST FLOOR PLAN - PLUMBING DEMOLITION

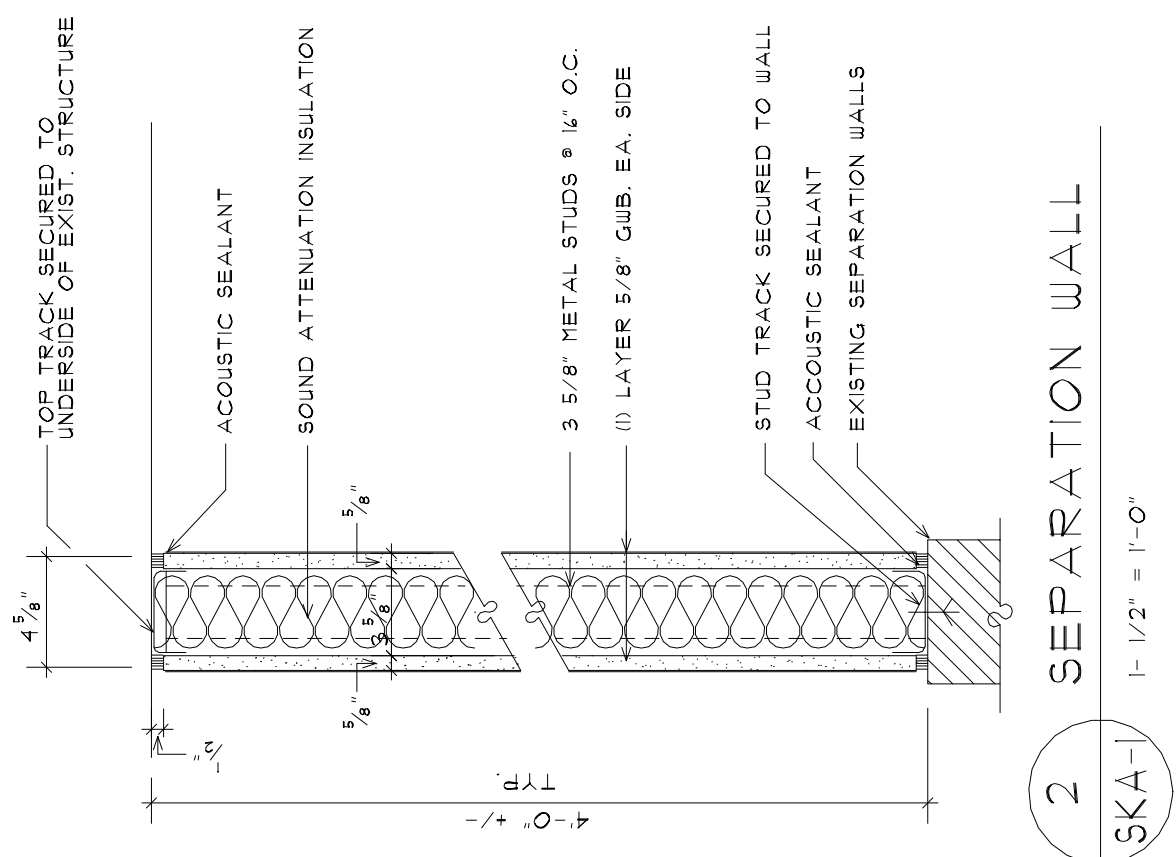
P1.1B



2 SKA-1
TYP. (AS INDICATED BY BLACK INFILL)

1 SKA-1
KEY PLAN

1" = 20'-0"



APPROX. LINEAR FOOTAGE OF LECTURE HALL SEPARATION WALLS: 85'-0"

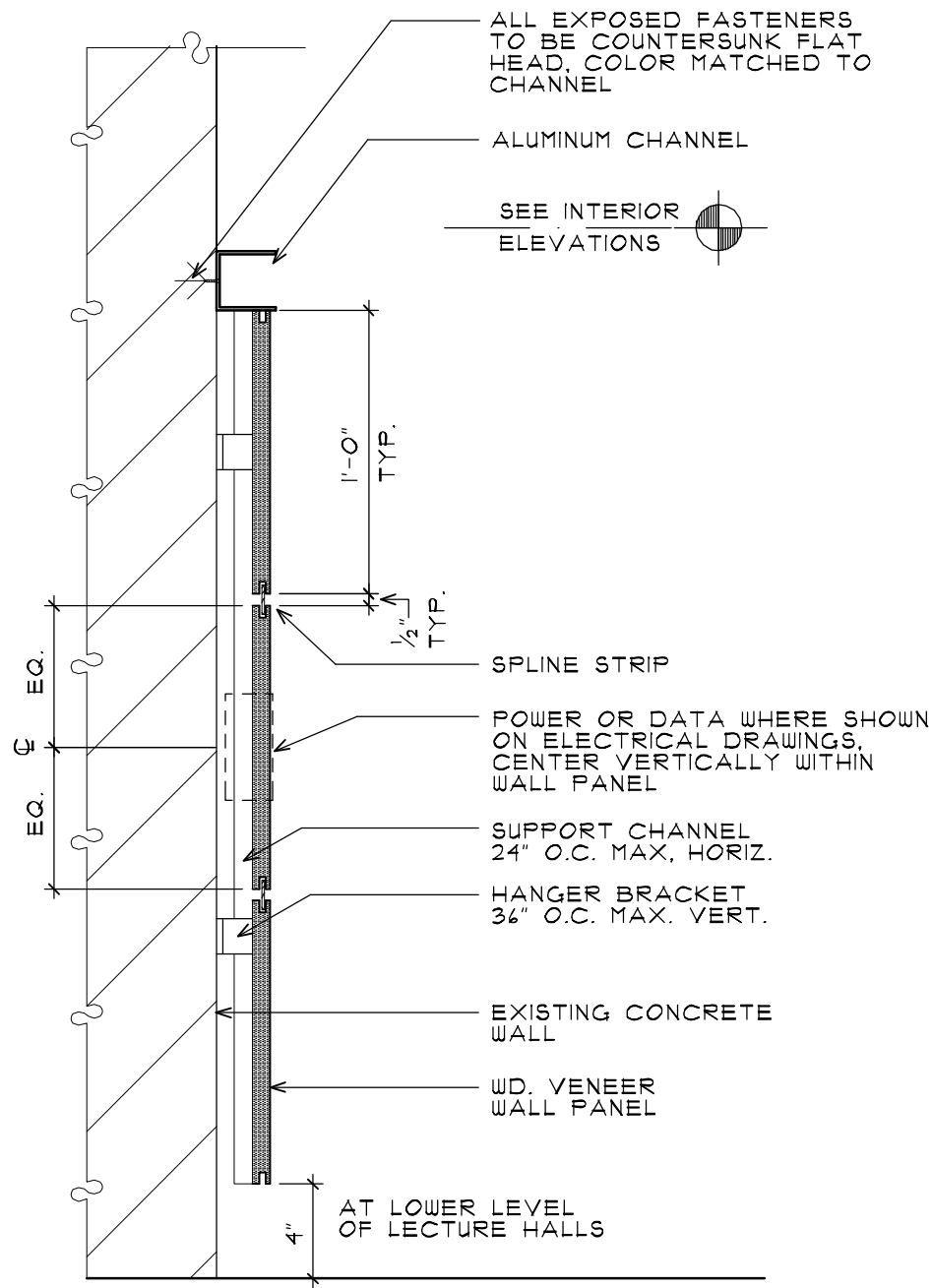
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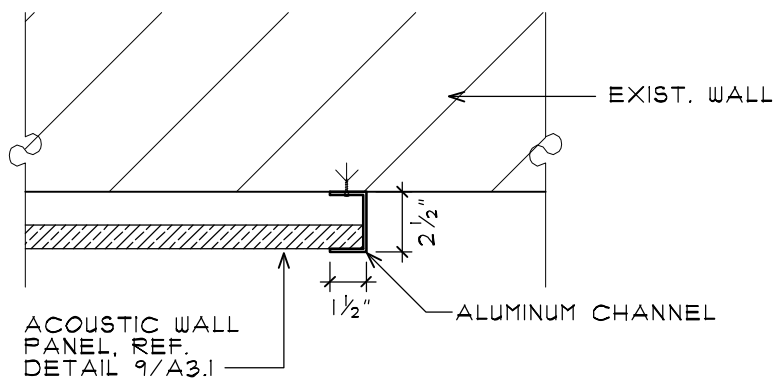
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UNIVERSITY OF RHODE ISLAND CHAFEE HALL
FIRE PROTECTION UPGRADES
CHAFEE HALL
RESPONSE TO SITE FINDINGS
REFERENCE DRAWING: A1.1

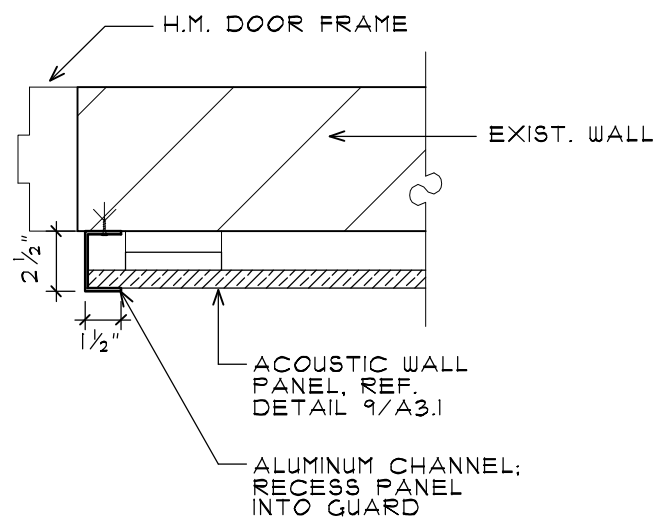
DATE: 02/25/11
DRAWN BY: CMM
APPROVED BY: NJG
DESIGNED BY: SMT
SHEET #: SKA - #1



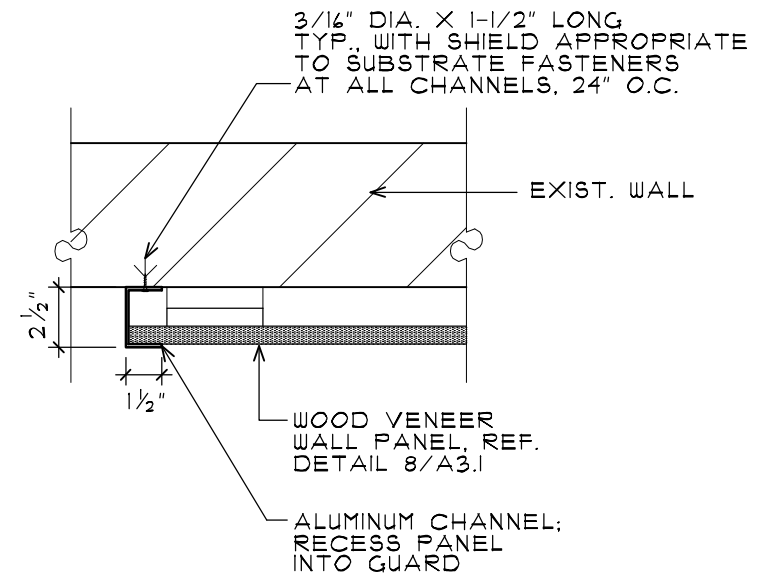
8
A3.1 WALL PANEL
1- 1/2" = 1'-0" ◉ EXISTING WALLS



10
A3.1 AWP DETAIL
1- 1/2" = 1'-0" ◉ FABRIC PANEL EDGE



11
A3.1 AWP DETAIL
1- 1/2" = 1'-0" ◉ DOOR FRAMES



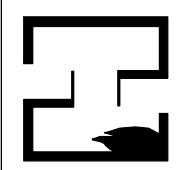
12
A3.1 AWP DETAIL (WOOD)
1- 1/2" = 1'-0" ◉ VERTICAL EDGE

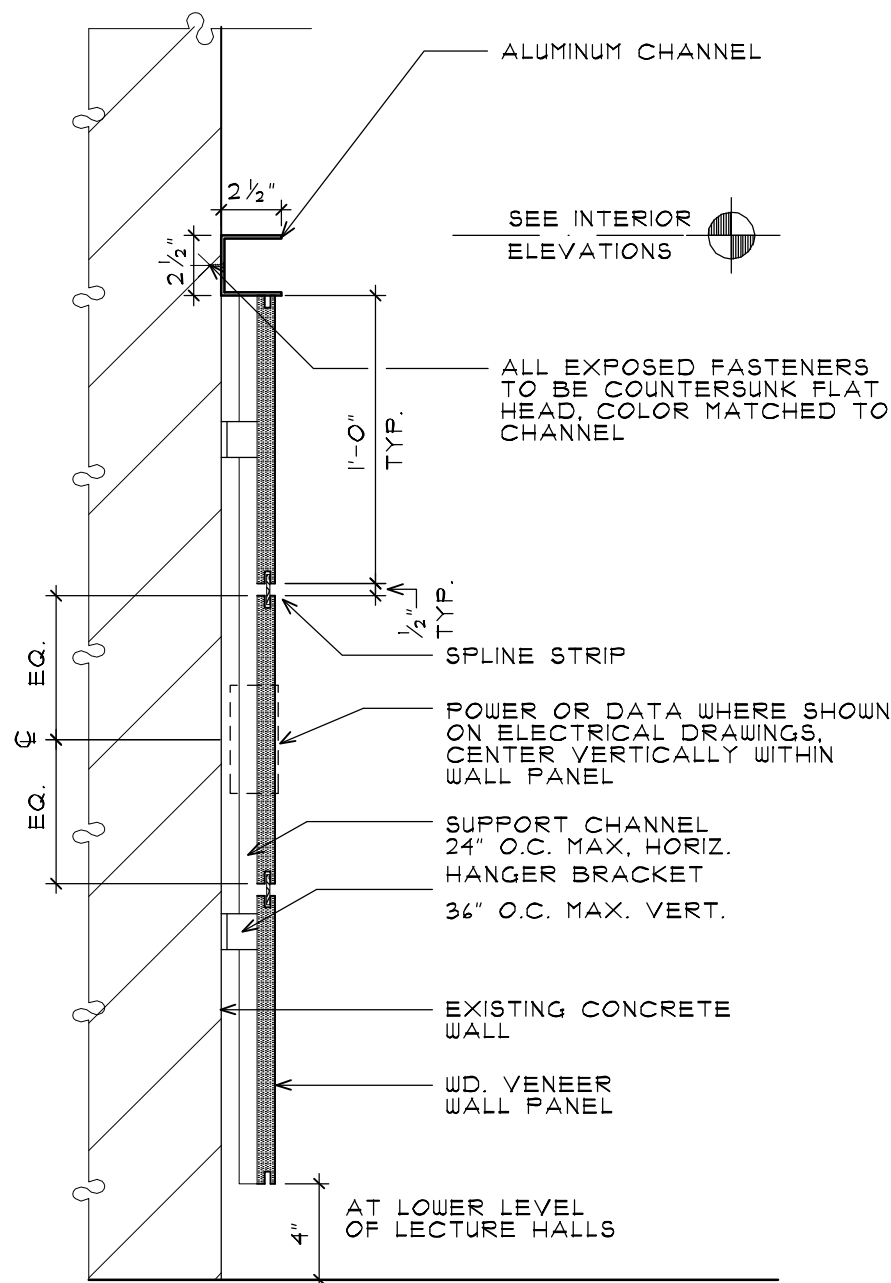
DATE:	02/25/11
DRAWN BY:	CMM
APPROVED BY:	NJG
DESIGNED BY:	SMT
SHEET #:	SKA - #2

UNIVERSITY OF RHODE ISLAND CHAFFEE HALL
FIRE PROTECTION UPGRADES
CHAFFEE HALL
RESPONSE TO SET FINDINGS
REFERENCE DRAWING: A3.1

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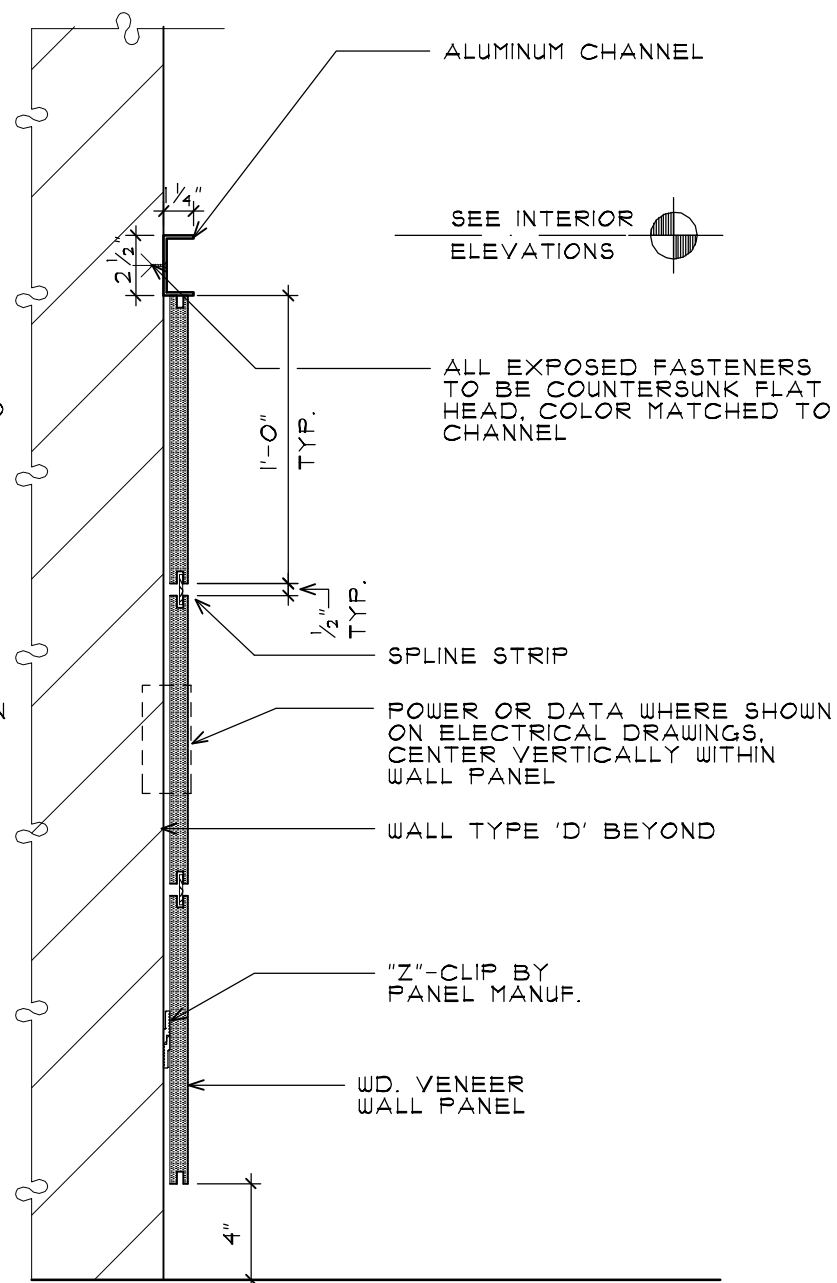
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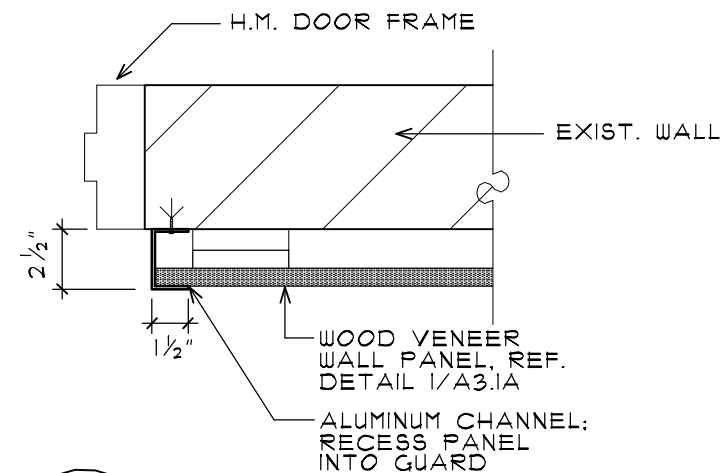
1 WALL PANEL
A3.1A 1- 1/2" = 1'-0" @ EXISTING WALLS

ALTERNATE #3

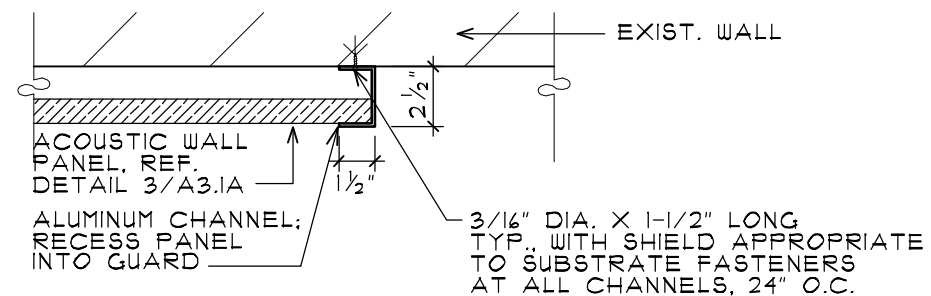


2 WALL PANEL
A3.1A 1- 1/2" = 1'-0" @ NEW STUD WALLS

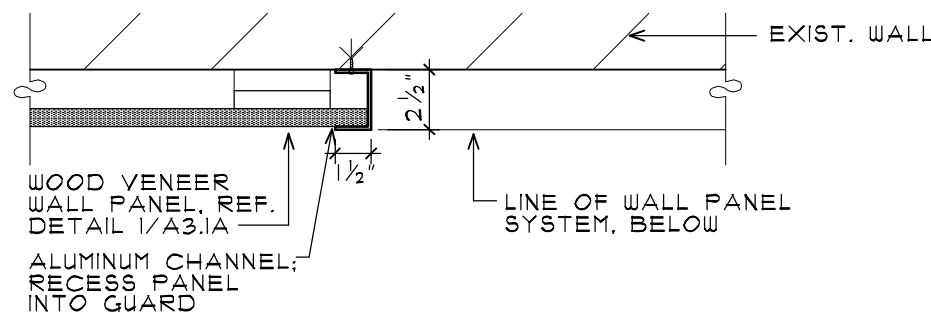
ALTERNATE #3



13 AWP DETAIL (WOOD)
A3.1A 1- 1/2" = 1'-0" @ DOOR FRAMES
ALTERNATE #3



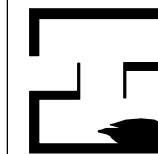
15 AWP DETAIL
A3.1A 1- 1/2" = 1'-0" @ FABRIC PANEL EDGE



14 AWP DETAIL (WOOD)
A3.1A 1- 1/2" = 1'-0" @ PANEL TRANSITIONS
ALTERNATE #3

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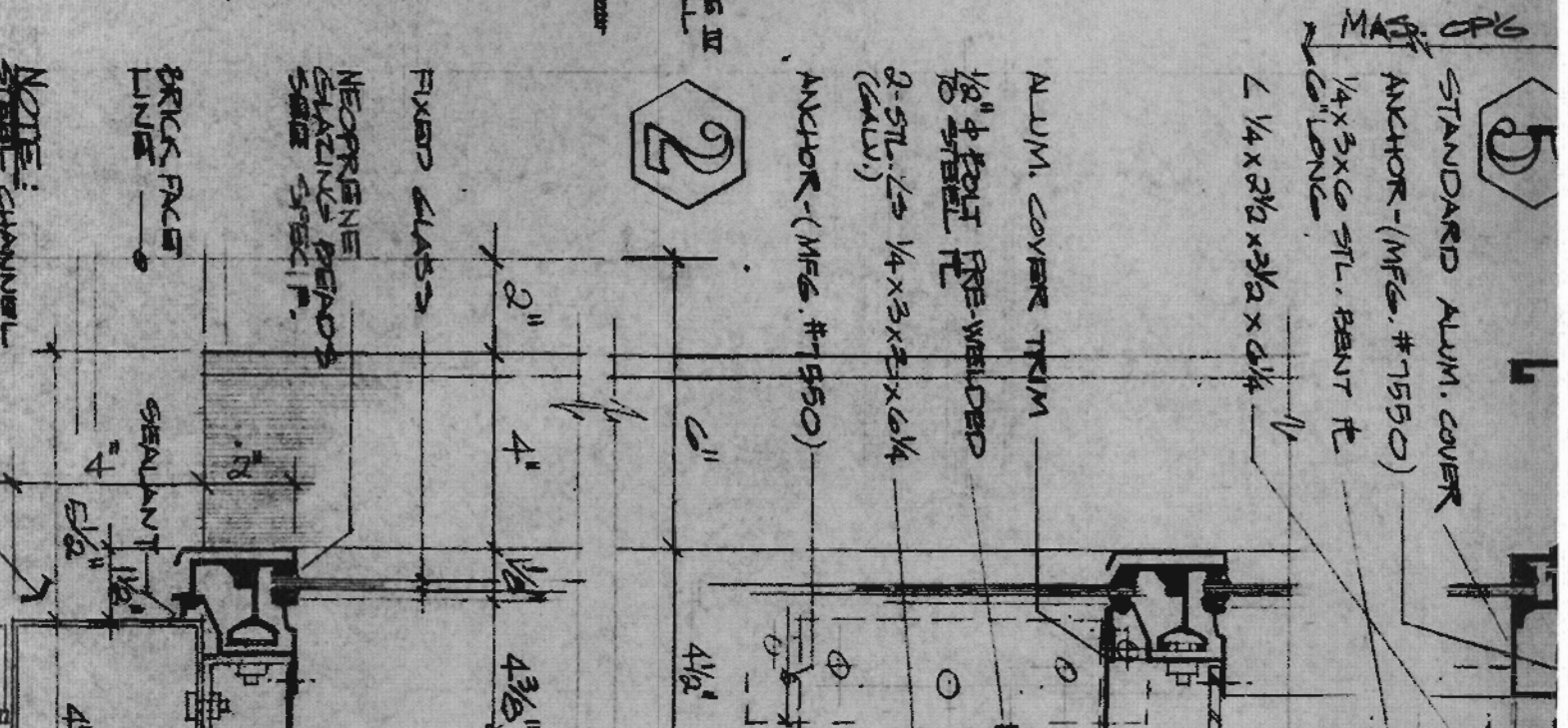
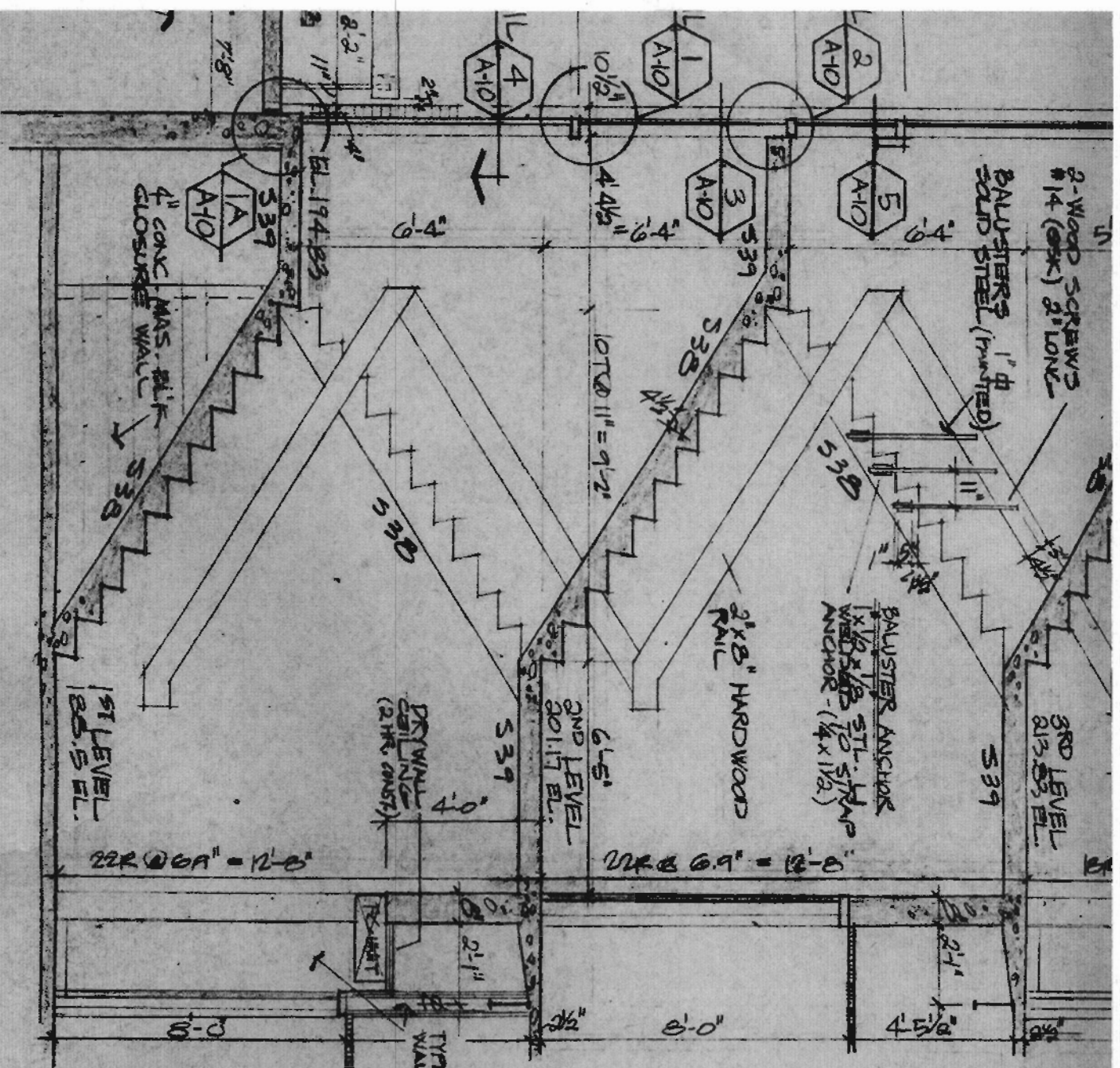


DATE:	02/25/11
DRAWN BY:	CMM
APPROVED BY:	NJG
DESIGNED BY:	SMT
SHEET #:	SKA - #3

UNIVERSITY OF RHODE ISLAND CHAFAEE HALL
FIRE PROTECTION UPGRADES
CHAFAEE HALL
RESPONSE TO FINDINGS
REFERENCE DRAWING: A3.1A

SECTION C
STAIR IB

SCALE: 1/4" = 1'-0"
 TYPE T-3 SADDLE DOOR



5

STANDARD ALUM. COVER
 ANCHOR-(MFG. #7550)
 1/4" X 3/16" STL. BENT FL
 6" LONG
 L 1/4" X 3/16" X 3/16" X 2 1/4"

2

ALUM. COVER TRIM
 1/8" Φ POLY FIBRE-WELDED
 1/8" STEEL FL
 2- STL. L-14 X 3 X 2 X 1/4
 (CALL.)
 ANCHOR-(MFG. #7550)

BRICK FACE
 FIXED SLABS
 NEOPRENE STAINING BEADS
 SAME SPEC. P.
 SEALANT

