

BOARD OF REGENTS

# FINANCE & FACILITIES COMMITTEE

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## MEETING AGENDA

March 8, 2022 1:30 p.m.  
VIRTUAL MEETING



THE UNIVERSITY OF  
NEW MEXICO.

# TAB 1

#1

Call to Order, Confirmation of a Quorum, and Adoption of Agenda

The University of New Mexico  
Board of Regents' Finance and Facilities Committee  
March 8, 2022, 1:30 p.m.  
Held Virtually, Via Zoom

<https://live.unm.edu/board-of-regents>

AGENDA

1. **ACTION ITEM:** Call to Order, Confirmation of a Quorum, and Adoption of Agenda
2. **COMMENTS:** Open for Comments
3. **ACTION ITEM:** Approval of Finance and Facilities Committee Meeting Summary from February 8, 2022
4. **ACTION ITEM:** Approval of Disposition of Surplus Property for January 2022  
*(Presenter: Bruce Cherrin, Chief Procurement Officer, Purchasing Department)*
5. **ACTION ITEM:** Project Construction Approvals:
  - a. Silver Family Geology Museum Renovation
  - b. Northrop Hall Radiogenic Isotopes Lab HVAC
  - c. UNM-Taos Harwood Museum HVAC Improvement
  - d. Biomedical Research Facility BLS-2 Lab Airflow Modifications*(Presenter: Lisa Marbury, Assistant VP, Campus Environments & Administration)*
6. **ACTION ITEM:** Approval of Lease: UNM Early Childhood Services Center, 4400 Alameda NE, Suites A and B, Albuquerque, NM, 87113  
*(Presenter: Tom Neale, Director of Real Estate)*
7. **ACTION ITEM:** Approval of Appointments of Representatives from the Lobo Development Corporation to the South Campus Tax Increment Development District (TIDD) Board *(Presenter: Kelly Ward, LDC Director)*
8. **ACTION ITEM:** Approval of the Sale of Real Property to Tucker Acquisitions, LLC  
*(Presenters: Kelly Ward, LDC Director, and Tom Neale, Director of Real Estate)*
9. **ACTION ITEM RECOMMENDATIONS:** Recommendations for Consent Agenda Items on Full Board of Regents' Agenda *(Sandra Begay, Chair, Regents' Finance & Facilities Committee)*
10. **INFORMATION ITEM:** UNM Foundation Fundraising and Investment Performance Report *(Presenter: Kenny Stansbury, CFO, UNMF)*
11. **INFORMATION ITEM RECOMMENDATIONS:** Recommendations for Information Agenda Items to be Added to the Full Board of Regents' Agenda *(Sandra Begay, Chair, Regents' Finance & Facilities Committee)*
12. **EXECUTIVE SESSION:** None

# TAB 2

#2

COMMENTS



## **COMMENTS:**

Open for Comments

# TAB 3

**#3**

Approval of Finance and Facilities Committee Meeting Summary  
from February 8, 2022

**THE UNIVERSITY OF NEW MEXICO**  
**Board of Regents' Finance and Facilities (F&F) Committee**  
**February 8, 2022 Meeting Summary**

**Committee Members Present:**  
Regent Sandra Begay, Chair  
Regent Rob Schwartz, Vice Chair  
Regent William Payne

**Non-Voting Committee Members Present:**  
Regent Doug Brown, President

**Administration Present:** Garnett Stokes, University President; Teresa Costantinidis, SVP for Finance and Administration (SVPFA); and James Holloway, EVP for Academic Affairs/ Provost

**Presenters in Attendance:** Bruce Cherrin, Purchasing; Norma Allen, University Controller; Eddie Nuñez, Athletics; Elizabeth Metzger, Controller; Nicole Dopson, Academic Affairs/ Provost Office; Lisa Marbury, ISS; Lisa Kuuttilla, UNM Rainforest Innovations; Kelly Ward, Lobo Development Corporation; Jason Strauss, Lobo Energy Incorporated; and Riley White, Teach and Learning.

**ACTION ITEMS:**

1. **Call to Order, Confirmation of a Quorum, and Adoption of Agenda.** Regent Schwartz called the virtual meeting to order at 1:30 p.m. and confirmed that a quorum was established with Regent Payne and Regent Schwartz present. **Regent Schwartz moved to adopt the agenda and Regent Payne seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**

**COMMENTS:**

2. There were no public comments.

**ACTION ITEMS (continued):**

3. **Approval of Finance and Facilities Committee Meeting Summary from November 30, 2021.** Regent Schwartz moved to approve and Regent Payne seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.
4. **Approval of Disposition of Surplus Property for November and December 2021.** Bruce Cherrin gave the presentation. Regents' approval was requested for the disposition of surplus property for November and December 2021. Items listed in the E-Book are either obsolete or beyond repair. The detailed reports are in the E-book. **Regent Schwartz moved to approve and Regent Payne seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**

**INFORMATION ITEM:**

5. **2<sup>nd</sup> Quarter Consolidated Financial Report through December 31, 2022.** Norma Allen gave the presentation the detailed report is in the E-book.

**ACTION ITEMS (continued):**

6. **Approval of the New Mexico Higher Education Department, Institutional Finance Division, 2<sup>nd</sup> Quarter Financial Actions Report and Certification through January 31, 2022.** Norma Allan gave the presentation. Regents' approval of the second Quarter Financial Actions report and certification through January 31, 2022 was requested. The Quarterly Financial Actions Report is a one-page report submitted to the Higher Education Department (HED), comprised of "yes" or "no" questions regarding the University's financial transactions. Answering any question "yes" requires further information to be provided to HED. There were no budget changes to report and a "no" response was provided for each question because all financial changes have been reflected in the Budget Adjustment Request (BAR). The detailed report is in the E-book. **Regent Schwartz moved to approve and Regent Payne seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**
  
7. **Approval of 2<sup>nd</sup> Quarter Athletics' Enhanced Fiscal Oversight Program Report and Certification through December 31, 2021, and 2<sup>nd</sup> Quarter Information on Athletics' Report by Sport through December 31, 2021.** Eddie Nunez gave the presentation. Regents' approval was requested for the Athletics' Report and Certification instituted by the New Mexico Higher Education Department (HED). The report covers the FY22 second quarter financial status and budget exhibits for the Athletics' department. The detailed report is in the E-book. **Regent Schwartz moved to approve and Regent Payne seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**

Eddie Nunez gave the presentation on the 2<sup>nd</sup> Quarter Information on Athletics' Report by Sport through December 31, 2021. The report describes the pooled revenues and directed revenues by sport for FY22 budget and actuals year-to-date through December 31, 2021. This report also compares FY22 budget to quarterly actuals, and FY22 year-to-date actuals to prior year-to-date actuals. The detailed report is in the E-book

**ACTION ITEMS (continued):**

8. **Project Construction Approvals or Re-Approvals of:**
  - a. **Approval for Student Residence Center Stairs and Repair & Modification Phase 2, Main Campus, Albuquerque, New Mexico.** Lisa Marbury gave the presentation. Regents' approval was requested for the approval of Student Residence Center Stairs Repair & Modification Phase 2. The total estimated project budget is \$1.07M. The detailed report is in the E-book.
  
  - b. **Approval for Clinical Translational Science Center (CTSC) Roof Replacement, North Campus, Albuquerque, New Mexico.** Lisa Marbury gave the presentation. Regents' approval was requested for the Center for Clinical Translational Science Center (CTSC) Roof Replacement. The total estimated project budget is \$680K. The detailed report is in the E-book.
  
  - c. **Approval for Student Union Building Partial Roof Replacement Phase 2.** Lisa Marbury gave the presentation. Regents' approval was requested for the Student Union

Building Partial Roof Replacement Phase 2. The total estimated project budget is \$460K. The detailed report is in the E-book.

**Regent Schwartz moved to approve and Regent Payne seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**

9. **Approval of Reappointment to UNM Rainforest Innovations Board of Directors.** Elizabeth Kuuttilla gave the presentation. Regents' approval was requested for the re-appointment of David Gibson to its Board of Directors. The appointments are for a four-year term beginning July 1, 2022 through June 30, 2026, these are subject to approval by the Board of Regents. Mr. Gibson's biography is included in the E-book. **Regent Payne moved to approve and Regent Schwartz seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**
10. **Approval of Central and University Project Development Proposal and Agreement/ Real Estate Development and Management of Regent-Owned Land.** Kelly Ward gave the presentation. The proposed site is envisioned as a mixed-use zone that will provide a range of retail, office and housing. At this stage LDC would like to formally engage with the City of Albuquerque to on behalf of the Regents to prepare the site by demolishing a vacant building at the corner of University and Central. The detailed report is in the E-book. **Regent Payne moved to approve and Regent Schwartz seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**
11. **Recommendations for Consent Agenda Items on Full Board of Regents' Agenda.** Regent Begay recommended items 6 through 9 be placed on the full Board of Regents' consent agenda. **Regent Schwartz moved to approve and Regent Payne seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**

**INFORMATION ITEM(S) (continued):**

12. **UNM Rainforest Innovations Annual Meeting of the Member. Acceptance of the FY 2020-21 Annual Report and Audit Report.** Lisa Kuuttilla gave the presentation. The detailed report is in the E-book.
13. **Lobo Energy Inc. Annual Meeting of the Member. Summarized minutes of the February 16, 2021 meeting as well as acceptance of the FY 2020-21 Audit.** Jason Strauss gave the presentation. The detailed report is in the E-book.
14. **Lobo Development Annual Meeting of the Member. Summarized minutes of the February 16, 2021 meeting and acceptance of the FY 2020-21 audit.** Kelly Ward and Teresa Costantinidis gave the presentation. The detailed report is in the E-book.
15. **2021 Report of the UNM Regents' Student-Run Portfolio.** Reilly White gave the presentation. The detailed report is in the E-book.
16. **Winter 2022 Regents' Budget Update.** Norma Allen gave the presentation. The detailed report is in the E-book.

- 17. Recommendations for Information Agenda Items on Full Board of Regents' Agenda.**  
Regent Begay recommended item 5 be placed on the full Board of Regents' consent agenda.  
**Regent Schwartz moved to approve and Regent Payne seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**

**EXECUTIVE SESSION:**

18. None

**Regent Payne moved to adjourn at 4:30 p.m. and Regent Schwartz seconded. The motion passed by unanimous vote with a quorum of committee members present and voting.**

# TAB 4

#4

Approval of Disposition of Surplus Property for January 2022



THE UNIVERSITY OF  
NEW MEXICO®

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UNIVERSITY SERVICES – DISPOSITION OF SURPLUS PROPERTY

JANUARY 2022



### Surplus Property Disposition - January 2022

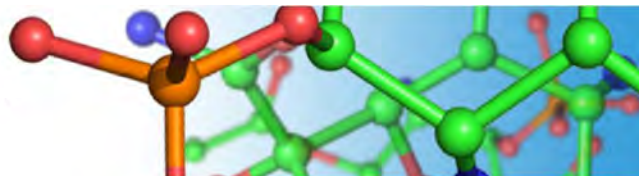
Memo	Asset Tag	Department	Description	Manufacturer	Purchased	Total Cost (\$)	NBV (\$)	Disposal Method
1	N00004200	Chemistry Department	Mass Spectrometry System	Waterscorp	6/28/2005	\$229,717.69	\$0.00	Beyond Repair
2	N00020153	Neurosciences	Infrared Imaging System	LiCorBio Part #9201-10	3/24/2009	\$45,661.84	\$0.00	Beyond Repair
3	253700	Admissions Office	MV BUS	BlueBird	1/11/2002	\$38,545.00	\$0.00	Too Costly to Repair
4	N00007380	ARTS Lab	ProjectorSystem/DLP Single Channel	SkyScanInc	5/3/2006	\$35,876.25	\$0.00	Obsolete
5	N00007556	KNME Engineering Local State Wide	Vehicle	Ford	5/24/2006	\$20,979.00	\$0.00	Too Costly to Repair
6	N00004207	IM Div of Cardiology	Pulse Wave Analysis System	MillarInst SphygmoCor	6/28/2005	\$20,500.00	\$0.00	Obsolete
7	N00015431	Gallup Physical Plant	Vehicle	Buick 2007	3/27/2008	\$20,140.00	\$0.00	Too Costly to Repair
7	N00008779	Gallup Physical Plant	Vehicle	Chevrolet G66925	8/23/2006	\$17,500.00	\$0.00	Too Costly to Repair
8	217585	Chem & Resrch Lab Supplier (CRLS)	MV TRK UNDER 1 TON	Dodge	4/24/1996	\$17,004.00	\$0.00	Obsolete
9	229163	BSCI Faculty #18	MV PASSENGER CAR	Chevrolet	2/28/1998	\$15,095.00	\$0.00	Beyond Repair
10	N00018128	Art Art History Gen Admin	Copier	AlbDupSup	10/7/2008	\$14,795.00	\$0.00	Obsolete
7	227893	Gallup Physical Plant	# SBDO - MV PASSENGER CAR	Ford	10/31/1997	\$14,711.00	\$0.00	Too Costly to Repair
8	N00014319	Chem & Resrch Lab Supplier (CRLS)	Pickup Truck	Ford 2008	12/17/2007	\$11,723.00	\$0.00	Obsolete
11	237120	Residence Life and Student Housing	MV TRK UNDER 1 TON	Chevrolet	7/8/1999	\$10,447.00	\$0.00	Beyond Repair
	255452	Biology Department	MOTOR MOTION CAMERA	SkcGulf	5/23/2002	\$7,699.00	\$0.00	Obsolete
	261954	Cancer Research Treatment Ctr CRTC	SCANNER SYSTEM	BioRad	7/3/2003	\$7,610.00	\$0.00	Beyond Repair
	218372	Center for High Tech Materials CHTM	SPOTSCAN	PhotonInc	5/30/1996	\$7,018.00	\$0.00	Cannibalized
	N00000161	AS LTER Network Faculty #2	Computer, Server	Dell Dell	9/9/2004	\$6,843.28	\$0.00	Obsolete
	200545	Molecular Genetics Microbiology	THERMAL ANALYSIS UNT	PerkinElme	3/4/1993	\$6,709.00	\$0.00	Obsolete
	N00024794	CHTM PI #9	Laser Driver/Diode	Nlight	3/9/2010	\$6,111.00	\$0.00	Cannibalized
	N00024795	CHTM PI #9	Laser Driver/Diode	Nlight	3/9/2010	\$6,111.00	\$0.00	Cannibalized
12	N00064803	Emerg Med EMS Gen Admin	AdultAirwayTrainer/160410	SynDaver	3/7/2018	\$6,033.00	\$1,709.35	Beyond Repair



**Surplus Property Disposition - January 2022**

Memo	Asset Tag	Department	Description	Manufacturer	Purchased	Total Cost (\$)	NBV (\$)	Disposal Method
	<b>N00021493</b>	Dental Services	Gas Analazer	Criticare	7/9/2009	<b>\$5,771.73</b>	\$0.00	Obsolete
	<b>179120</b>	Center for High Tech Materials CHTM	GENERATOR SIGNAL	Wavetek	1/1/1987	<b>\$5,705.00</b>	\$0.00	Cannibalized
	<b>176893</b>	Center for High Tech Materials CHTM	GENERATOR SIGNAL	Fluke	1/1/1987	<b>\$5,310.00</b>	\$0.00	Cannibalized
	<b>253061</b>	Center for High Tech Materials CHTM	CUTTER	N/A	11/9/2001	<b>\$5,283.00</b>	\$0.00	Obsolete
	<b>240614</b>	Center for High Tech Materials CHTM	ELECTROMETER	Keithley	2/22/2000	<b>\$5,036.00</b>	\$0.00	Cannibalized
<b>Total Asset Disposition (#)</b>								<b>27</b>
<b>Total Capitalization (\$)</b>								<b>\$593,934.79</b>
<b>Total Net Book Value (\$)</b>								<b>\$1,709.35</b>





December 14, 2021

To: Inventory Control

From: Fred Fuchs  
 Research Engineer  
 Department of Chemistry and Chemical Biology

To whom it may concern,

We have a Waters LCT Premier Mass Spec, tag#N00004200 that needs to be removed from the department.

- What the item was used for: This item was used analyze samples for various research in multiple chemistry labs. Mass Spectrometry is an **analytical tool** useful for measuring the mass-to-charge ratio ( $m/z$ ) of one or more molecules present in a sample. These measurements can often be used to calculate the exact molecular weight of the sample.
- Reason for Disposal: This item is non-functional and repairs are cost-prohibitive as they cost more than a new system
- Purchase Date: June 28, 2005
- Total Cost: \$153,910.85
- Current book value is \$229,717.69.

UNM Tag	Serial Number/VIN	Manufacturer	Description	Model	Total Cost	Net Book Value	Adjusted Cost	Purchase Date
N00004200	NA	Waterscorp	Mass Spectrometry System	LCT Premier	\$153,910.85	\$0.00	\$229,717.69	6/28/2005

The system has been purged and cleaned, it is ready for pickup.

Thank you  
 Fred Fuchs

A handwritten signature in black ink, appearing to read 'JSE', positioned above a horizontal line.

Department Chair  
 Jeremy Edwards



**Disposition of Surplus property – UNM Tag #N00020153**

August 16, 2021

To: University Services  
From: Neurosciences  
RE: LiCorBio Infrared Imaging System

University Services UNM Tag N00020153 was purchased 03/05/2009 by the Department of Neurosciences for \$41,924. This piece of scientific research equipment was used as a spectrophotometer to support Neurosciences and UNM's research mission. This asset has an adjusted cost of \$45,661.84 with a net book value (NBV) of \$0. The equipment item is not functioning and cannot be repaired per technical consultation with the manufacturer.

We are requesting surplus of this item to remove it from our inventory to make space for other shared equipment in the room.

Thank you for your consideration.

Charles LeBlanc, Department Administrator  
Neurosciences



To: University Services, Surplus Property  
Cc: Director Safety Risk Services  
From: Matthew Hulett, Director Office of Admissions  
Date: December 8, 2021  
Re: Disposal of UNM Vehicle #1125, Asset Tag #253700

Asset Tag 253700 belongs to a 2002 Chevy BlueBird B1VC1800 MiniBus, that was added to our inventory on 1/11/2002. The original price is \$38,545.00, we are not able to acquire the current net value as Kelly Blue Book and NADA do not show anything for this vehicle. The 2002 Chevy Bluebird was used for campus tours, which are currently taking place on main campus so we no longer require this vehicle for tours. The reasons for disposal is that the vehicle requires continual maintenance and is too costly to repair.

Thank you,

Matt Hulett, Director Office of Admissions

A handwritten signature in black ink, appearing to read 'Matt Hulett', written over a horizontal line.



Date: September 23, 2021  
To: UNM Inventory  
From: Harris Smith, Dean, College of Fine Arts  
Re: **Surplus Disposal N00007380**

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The SkyScanInc DLP projector system was purchased on 05/03/2006 to serve projection dome work at the ARTSLab for research. The net book value is (\$0.00), total cost is \$31,310.00 and the adjusted cost is \$35,876.25.


This projector is a 2006 model that is no longer under support. The projector is no longer working and has been sitting unused for a few years. Repair parts are outdated and not available to keep this projector running. It also has outdated technology that no longer works with modern computers to allow projections. We are requesting the disposal of this item due to it not functioning.

Thank you,

Michelle T. Evans  
System Analysts II  
College of Fine Arts  
University of New Mexico  
505.277.4987



# Memo

To: University Services   
From: Steven Campbell, Manager Information Technology  
Date: 10/29/2021  
Re: Surplus of item N00007556

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This memo serves as a request to remove item the below items from our inventory list.

Item N00007556, Ford 2006 Supercab truck; is an older vehicle that is too costly to service and keep running. It was purchased in 2006. It was taken out of service as 3 years ago as it is unreliable for use for our engineering team which often needs to travel to remote locations to service our statewide translator system. The trucks age makes it difficult to find parts to repair it. The vehicle has reached its 15 years useful life and as a result, it is no longer cost effective to keep running.

This vehicle was purchased on 5/24/2006 at a cost of \$20,979. It adjusted cost is \$20,979 and it currently has a net book value of \$0.00.

Thank you for your attention to this matter. If you should have any further questions please feel free to contact Steven Campbell at 505-379-3571 or [scampbell@nmpbs.org](mailto:scampbell@nmpbs.org).



April 28, 2021

Memorandum

To: Norris Cain, Supervisor, General Services, UNM Surplus Property

From: Mark Sheldon, MD, Internal Medicine Cardiology Division

Subject: Asset #N0004207 – Pulse Wave Analysis System

A handwritten signature in blue ink, appearing to be 'MS', with a long horizontal line extending to the right.

This memo is to justify the disposal of the UNM Asset #N0004207, Pulse Wave Analysis System MFG: MillarinstAtcor Medical, Model #:MM3, Serial #:RS-232.

*Total cost \$20,500.00, net book value \$0.00, purchased 05/04/2005 and adjusted cost is \$20,500.00.*

This equipment was used in our Internal Medicine Cardiology Heart Station and Clinic for Cardiology tests but is outdated and no longer being used. If need, I can be reached at 272-4253

Thank you.





December 16, 2021

To: UNM Surplus Property Department

Re: Disposition of Surplus Property – UNM Tags N00015431, N00008779, 227893

Asset Tag N00015431 is for a 2007 Buick Lacrosse vehicle that was purchased on 03/27/2008 for \$20,140.00 as a fleet vehicle for UNM Gallup faculty, staff, and administration to utilize for local and distance travel to and from the main campus and other travel as required. University Services lists this unit's adjusted cost as \$20,140.00 and net Book Value of \$0.00 This vehicle is now 15 years old and is rarely used for travel as it is no longer dependable and requires above average maintenance to keep it in good repair. We now have newer vehicles that are utilized as needed and this vehicle is no longer needed and is cost prohibitive to continue on-going repairs. UNM Gallup's Fleet Manager and the CFO has identified this as a cost saving measure and its deletion from the UNM G Fleet inventory will save insurance, maintenance and overhead.

Asset Tag N00008779 is for a 2006 Chevrolet Impala vehicle that was purchased on 8/23/2006 for \$17,500.00 as a fleet vehicle for UNM Gallup faculty, staff, and administration to utilize for local and distance travel to and from the main campus and other travel as required. University Services lists this unit's adjusted cost as \$17,500.00 and net Book Value of \$0.00 This vehicle is now 19 years old and is rarely used for travel as it is no longer dependable and requires above average maintenance to keep it in good repair. We now have newer vehicles that are utilized as needed and this vehicle is no longer needed and is cost prohibitive to continue on-going repairs. UNM Gallup's Fleet Manager and the campus CFO has identified this as a cost saving measure and its deletion from the UNM G Fleet inventory will save insurance, maintenance and overhead.

Asset Tag 227893 is for a 1997 Ford Taurus vehicle that was purchased on 10/31/1997 for \$14,711.00 as a fleet vehicle for UNM Gallup faculty, staff, and administration to utilize for local and distance travel to and from the main campus and other travel as required. University Services lists this unit's adjusted cost as \$14,711.00 and net Book Value of \$0.00 This vehicle is now 24 years old and is rarely used for travel as it is no longer dependable and requires above average maintenance to keep it in good repair. We now have newer vehicles that are utilized as needed and this vehicle is no longer needed and is cost prohibitive to continue repairs. UNM Gallup's Fleet Manager and the campus CFO has identified this as a cost saving measure and its deletion from the UNMG Fleet inventory will save insurance, maintenance and overhead.

Thank you,

**Ron Petranovich**

Ronald Petranovich

Mgr Physical Plant & Facilities

UNM Gallup FMD

505-863-7567 / ronp@unm.edu



**University Services**  
Marcos Roybal  
Associate Director

January 6, 2022

**Business Operations**  
1128 University Blvd NE  
505.277.2366

University Services

**CRLS**  
Clark Hall  
505.277.5109

Attention: Marcos Roybal, Associate Director, University Services

**Copy Center**  
Dane Smith Hall  
505.277.8267

CC: Norris Cain, Supervisor, General Services, Surplus Property

**Mailing Systems**  
1128 University Blvd NE  
505.277.4124

Re: Disposition of CRLS Property - UNM Asset Tag #N00014319 & 217585

**Records Management**  
1128 University Blvd NE  
505.277.1136

Dear Mr. Roybal,

**Shipping & Receiving**  
915 Camino de Salud  
505.272.6302

I am writing to confirm a Request for Disposition that included the following UNM Asset Tag #N00014319 and UNM Asset Tag #217585. UNM Tag # N00014319 (Ford Ranger) was purchased on December 17, 2007 for a total \$10,723.00 and an adjusted cost of \$11,723.00 UNM Tag # 217585 (Dodge Clubcab) was purchased on April 24, 1996 for a total and adjusted cost of \$17,004.00 These vehicles were used for delivering research lab supplies, chemicals, gas cylinders, and dewars throughout the UNM Campus and both have a net book value (NBV) of \$0.00. These vehicles have had high maintenance costs and is no longer used due to improved route efficiency.

We believe our decision to send these vehicles to UNM Surplus Property surplus will result in monthly cost savings, which include insurance expenses, fuel expenses, and the aforementioned repair and maintenance expenses. Thank you for your consideration.

Sincerely,

A handwritten signature in cursive script that reads 'Amanda Luna'.

Amanda Luna  
CRLS Manager  
Chemical & Research Lab Supplier  
505-277-5116



To: UNM Inventory

From: Jodi Perry, Department Administrator *Jodi M. Perry*

Date: 12/7/21

Re: Surplus Request UNM Vehicle 687, Asset Tag 229163

UNM Vehicle 687, Asset Tag 229163 was purchased 02/28/1998 for a total and adjusted cost of \$15,095.00. This vehicle was used by faculty and staff of the Community Environmental Health Program to travel to/from UNM and the Navajo Nation to meet with participant families for the Navajo Birth Cohort Study. It now has a current net book value of \$0.00. Per the UNM Fleet Maintenance, this vehicle needs major repairs (\$3k-\$5k) and costly monthly maintenance to keep the transmission and engine running well enough to drive to remote areas of the Navajo Nation.

We believe our decision to send this vehicle to UNM Surplus will result in monthly cost savings, which include insurance expenses, fuel expenses, and the previously mentioned repair and maintenance expenses. Thank you for your assistance in removing this vehicle from our inventory.



STUDIO · HISTORY · EDUCATION

## Disposition of Surplus Property- UNM Asset Tag #N00018128

December 21, 2021

To: Brandon Harrie

From: Jacklyn Le

Subject: Copier Disposition

Dear Mr. Harrie:

UNM Asset Tag #N00018128 was purchased on 10/07/2008 by UNM's Art Department for \$8,295.00. This item was used for daily printing needs for our art studio, history, and education department. It has a net book value (NBV) of (\$0.00), total cost (\$8,295.00), and adjusted cost (\$14,795.00). The machine is an older model and has not worked in years. We believe sending this copier to UNM Surplus Property will result in department savings that include cost of replacement parts and service maintenance. We thank you for your consideration.

Sincerely,

X  \_\_\_\_\_

Jacklyn Le

Administrative Assistant II



## Disposition of Surplus Property – UNM Tag #237120

November 16, 2021

To: Brandon J. Harrie  
From: John Simmons  
Subject: Vehicle Disposition

Greetings Mr. Harrie,

- UNM Tag #237120, Chevrolet S-10 Pickup (MV TRK UNDER 1 TON) was purchased on: July 08, 1999 by UNM RLSH for \$10,447.00. The vehicle was mostly for general use; picking up materials, driving from to Student Family Housing and back to UNM main campus. This truck now has a net book value NBV of \$0, leaving the adjusted cost at \$10,447.00.
- This vehicle is currently not functioning, it's not worth fixing, and we no longer have a need for it. Sending this truck to UNM Surplus will result in monthly cost savings, including: insurance, fuel, repair, and maintenance expenses.

Thank you for your consideration,

John Simmons  
Administrative Assistant  
Office Phone: (505) 277-3575  
Email: [jwsimmonsiii@unm.edu](mailto:jwsimmonsiii@unm.edu)  
2700 Campus Blvd NE



**To:** UNM Surplus Property

**From:** Sherrie MacFarlane, Operations Manager

**Date:** September 16, 2021

**Subject:** Equipment Disposition

These items listed below are being presented for disposition. Item N00064803, purchased 3/7/18, total cost and adjusted cost \$6,033.00, and NBV, \$1,709.35. These items are no longer functional and obsolete. We are surplusizing them and removing them from UNM Inventory, to manage UNM resources in a fiscally responsible fashion.

UNM Tag:	Manufacturer	Model	Serial Number	Description	Total Cost	Adjusted Cost	NBV
N00007572	MedEdTech	HPS363	M228	Human Patient Simulator	unknown	totally depreciated	\$0
N00064803	SynDaver	160410	Unknown	Adult Airway Trainer	unknown	totally depreciated	\$0

# ***Nellr Mexico Compilation Commission***

## **13-6-1 . Disposition of obsolete, worn-out or unusable tangible personal property.**

A. The governing authority of each state agency, local public body, school district and state educational institution may dispose of any item of tangible personal property belonging to that authority and delete the item from its public inventory upon a specific finding by the authority that the item of property is:

- (1) of a current resale value of five thousand dollars (\$5,000) or less; and
- (2) worn out, unusable or obsolete to the extent that the item is no longer economical or safe for continued use by the body.

**B.** The governing authority shall, as a prerequisite to the disposition of any items of tangible personal property:

- (1) designate a committee of at least three officials of the governing authority to approve and oversee the disposition; and
- (2) give notification at least thirty days prior to its action making the deletion by sending a copy of its official finding and the proposed disposition of the property to the state auditor and the appropriate approval authority designated in Section 13-6-2 NMSA 1978, duly sworn and subscribed under oath by each member of the authority approving the action.

C. A copy of the official finding and proposed disposition of the property sought to be disposed of shall be made a permanent part of the official minutes of the governing authority and maintained as a public record subject to the Inspection of Public Records Act [Chapter 14, Article 2 **NMSA** 1978].

D. The governing authority shall dispose of the tangible personal property by negotiated sale to any governmental unit of an Indian nation, tribe or pueblo in New Mexico or by negotiated sale or donation to other state agencies, local public bodies, school districts, state educational institutions or municipalities or through the central purchasing office of the governing authority by means of competitive sealed bid or public auction or, if a state agency, through the surplus property bureau of the transportation services division of the general services department.

E. A state agency shall give the surplus property bureau of the transportation services division of the general services department the right of first refusal when disposing of obsolete, worn-out or unusable tangible personal property of the state agency.

F. If the governing authority is unable to dispose of the tangible personal property pursuant to Subsection D or E of this section, the governing authority may sell or, if the property has no value, donate the property to any organization described in Section 501(c)(3) of the Internal Revenue Code of 1986.

G. If the governing authority is unable to dispose of the tangible personal property pursuant to Subsection D, E or F of this section, it may order that the property be destroyed or otherwise permanently disposed of in accordance with applicable laws.

H. If the governing authority determines that the tangible personal property is hazardous or contains hazardous materials and may not be used safely under any circumstances, the property shall be destroyed and disposed of pursuant to Subsection G of this section.

I. No tangible personal property shall be donated to an employee or relative of an employee of a state agency, local public body, school district or state educational institution; provided that nothing in this subsection precludes an employee from participating and bidding for public property at a public auction.

J. This section shall not apply to any property acquired by a museum through abandonment procedures pursuant to the Abandoned Cultural Properties Act [18-10-1 to 18-10-5 **NMSA** 1978].

K. Notwithstanding the provisions of Subsection A of this section, the department of transportation may sell through public auction or dispose of surplus tangible personal property used to manage, maintain or build roads that exceeds five thousand dollars (\$5,000) in value. Proceeds from sales shall be credited to the state road fund. The department of transportation shall notify the department of finance and administration regarding the disposition of all property.

L. If the secretary of public safety finds that the K-9 dog presents no threat to public safety, the K-9 dog shall be released from public ownership as provided in this subsection. The K-9 dog shall first be offered to its trainer or handler free of charge. If the trainer or handler does not want to accept ownership of the K-9 dog, then the K-9 dog shall be offered to an organization described in Section 501(c)(3) of the Internal Revenue Code of 1986 free of charge. If both of the above fail, the K-9 dog shall only be sold to a qualified individual found capable of providing a good home to the animal.

History: 1953 Comp., § 6-1-7.1, enacted by Laws 1961, ch. 100, § 1; 1979, ch. 195, § 2; 1984, ch. 47, § 1; 1987, ch. 15, § 1; 1989, ch. 211, § 6; 1995, ch. 181, § 1; 1998, ch. 16, § 1; 2001, ch. 317, § 1; 2007, ch. 57, § 4; 2012, ch. 10, § 1; 2013, ch. 9, § 1



# TAB 5

## # 5

### Project Construction Approvals:

- a. Silver Family Geology Museum Renovation
- b. Northrop Hall Radiogenic Isotopes Lab HVAC
- c. UNM-Taos Harwood Museum HVAC Improvement
- d. Biomedical Research Facility BLS-2 Lab Airflow Modifications



INSTITUTIONAL  
SUPPORT  
SERVICES

**MEMORANDUM TO ADVANCE  
COMMITTEE AGENDA ITEM TO  
THE BOARD OF REGENTS  
THE UNIVERSITY OF NEW MEXICO**

DATE: March 8, 2022

TO: Teresa Costantinidis, Sr. VP Finance & Administration

FROM: Lisa Marbury, Assistant Vice President, Campus Environments & Facilities,  
Vice President Office for Institutional Support Services

RE: Requested Construction Approval

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**RECOMMENDED ACTION:**

Recommend to the Board of Regents Finance and Facilities Committee the following requests for Project Construction Approval:

1. Silver Family Geology Museum Renovation
2. Northrop Hall Radiogenic Isotopes Lab HVAC
3. UNM-Taos Harwood Museum HVAC Improvement
4. Biomedical Research Facility BLS-2 Lab Airflow Modifications

cc: A. Coburn, M. Dion, M. Bailey, C. Martinez, S. Rodgers, M. Pierce– PDC  
A. Sena, R. Notary, D. Penasa, R. Sobieski, C. Grotbeck, J. Hart– FM

**REQUEST FOR CAPITAL PROJECT CONSTRUCTION APPROVAL for  
SILVER FAMILY GEOLOGY MUSEUM RENOVATION  
UNIVERSITY OF NEW MEXICO**

**March 8, 2022**

**REQUESTED ACTION:**

In accordance with Section 7.12 of the Board of Regents Policy Manual and as required by the New Mexico Higher Education Department and New Mexico State Board of Finance, project approval is requested for the **Silver Family Geology Museum Renovation on the Albuquerque Main Campus.**

**PROJECT DESCRIPTION:**

The project is located in Northrop Hall, Room 107 and will renovate 1,754 square feet to include new wall, ceiling and floor finishes, new LED light fixtures and new exhibit display cases. Interpretive content will include gems & minerals, planetary geology, vertebrate paleontology, an active seismograph and a fluorescent mineral exhibit.

**PROJECT RATIONALE:**

The museum was established in the 1930's by Stuart Northrop (after whom the building is named) and provides public exhibits of mineral, fossil and rock specimens. The last update to the exhibits occurred in 1987. The primary audience is educators and school groups; however, the museum is visited by thousands of visitors each year and is used for special classes, fundraising, alumni events and various receptions. The design includes a new security system, new casework, new LED lighting, a 3D model of the Galena King Mine and new interpretive content to improve the overall visitor experience. The existing space has deteriorating carpet and ceiling tiles, outdated lighting and casework, and no security system to protect valuable specimen. The consequences of not approving this project will result in poor visibility to the general public, alumni, the various user groups and missed teaching opportunities for Faculty and Students.

**FUNDING:**

The total estimated Project Budget is: \$472,031

- \$159,518 2019 State Appropriation General Funds
- \$102,513 FY22 Facilities Investment Needs (FIN)
- \$210,000 UNM Foundation Funding



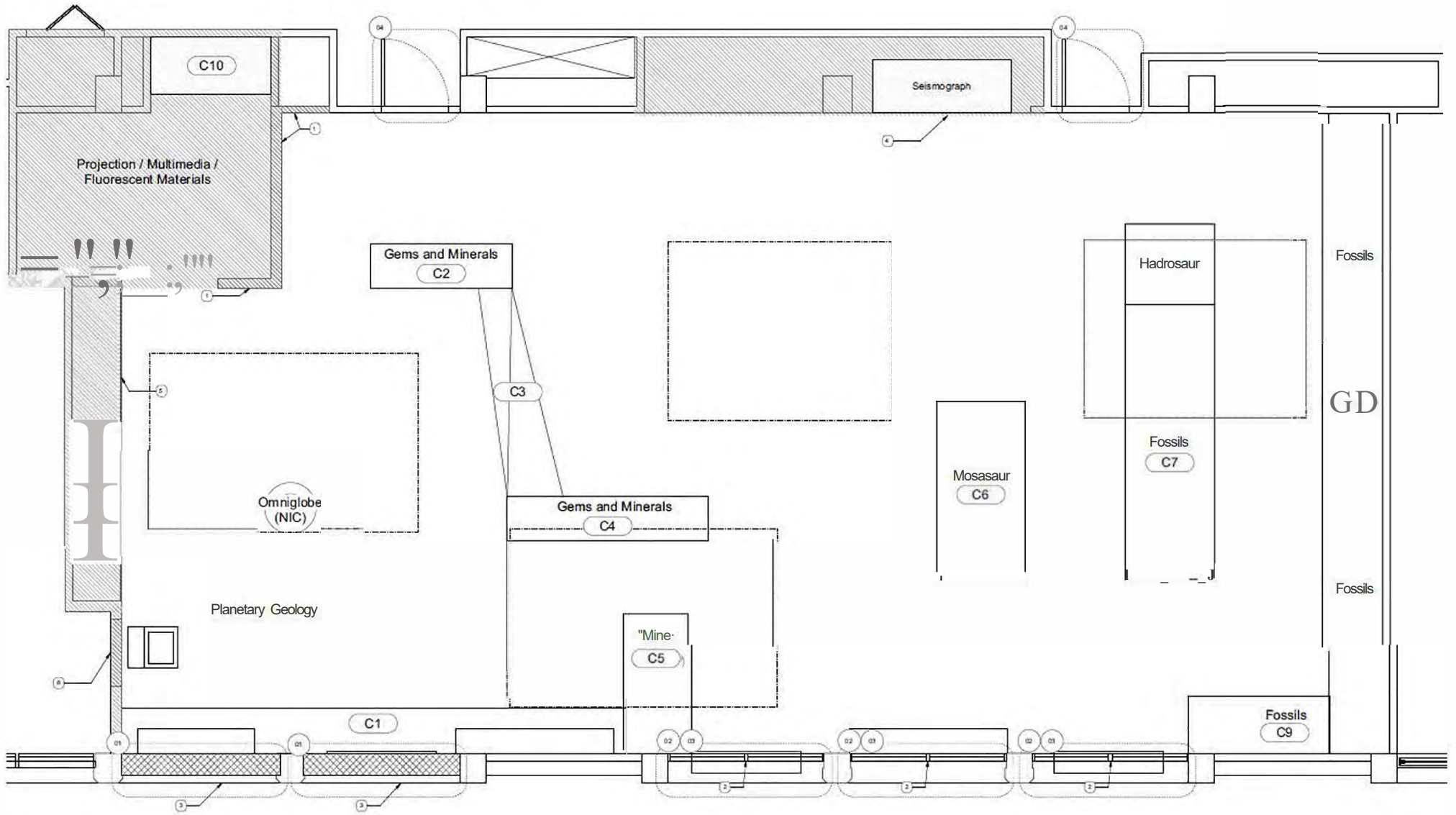
**A0024 – Northrop Hall  
First Floor**

Silver Family Geology  
Museum Renovation  
A0024 Northrop Hall,  
Room 107

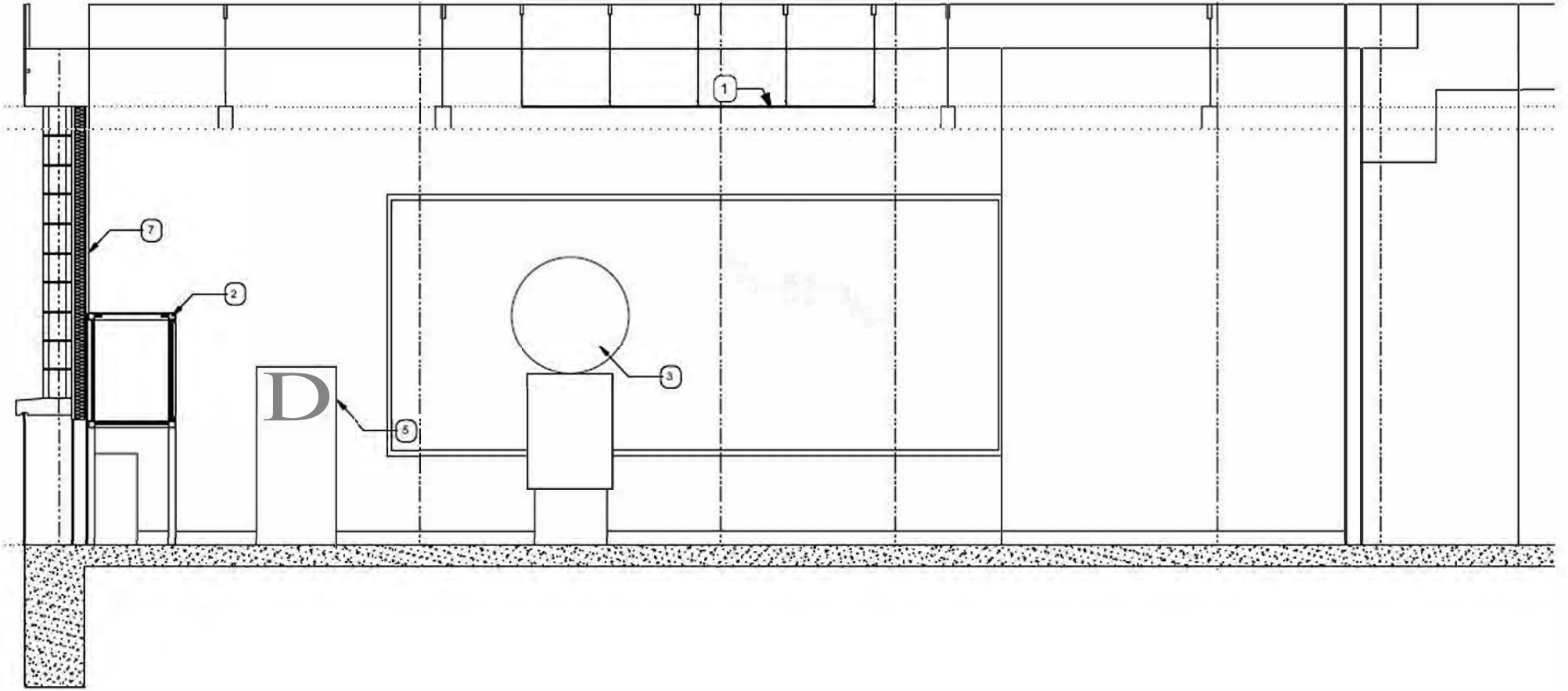


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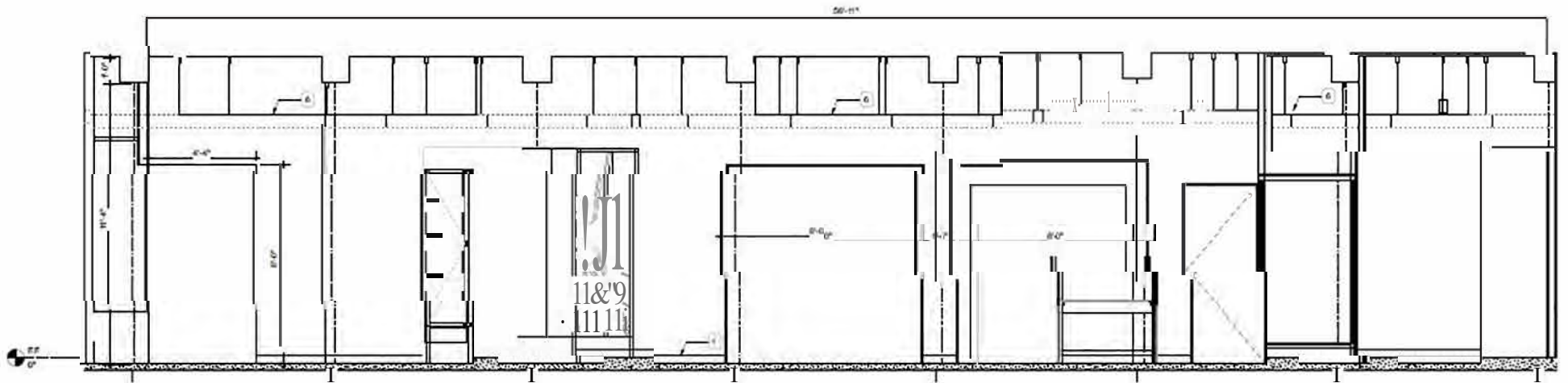




1 Phasing and Casework Plan  
 Scale: 3/8" = 1'-0"

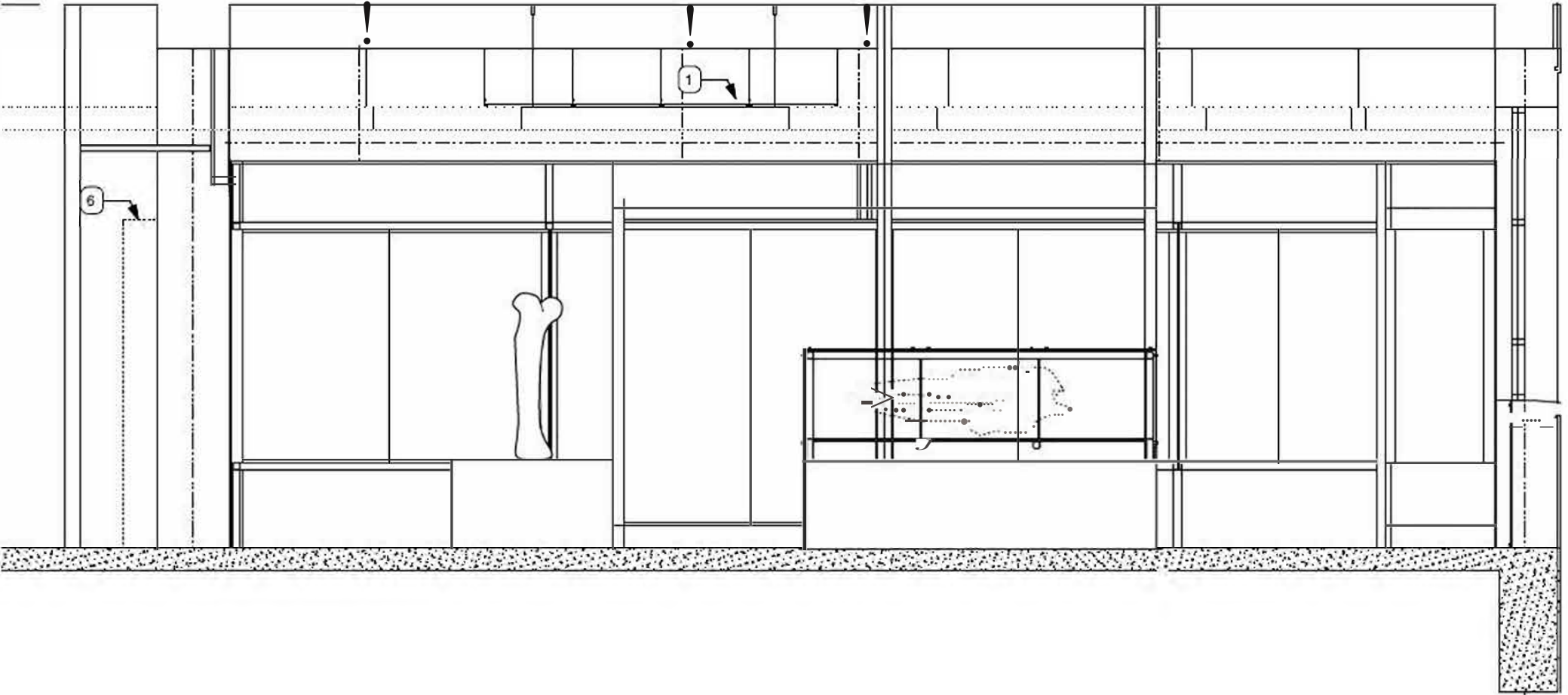


1 E-W Section Looking N  
A3.1 Scale: 3/8" = 1'-0"



**a** NS Section looking E  
Scale: 3/8" = 1'-0"

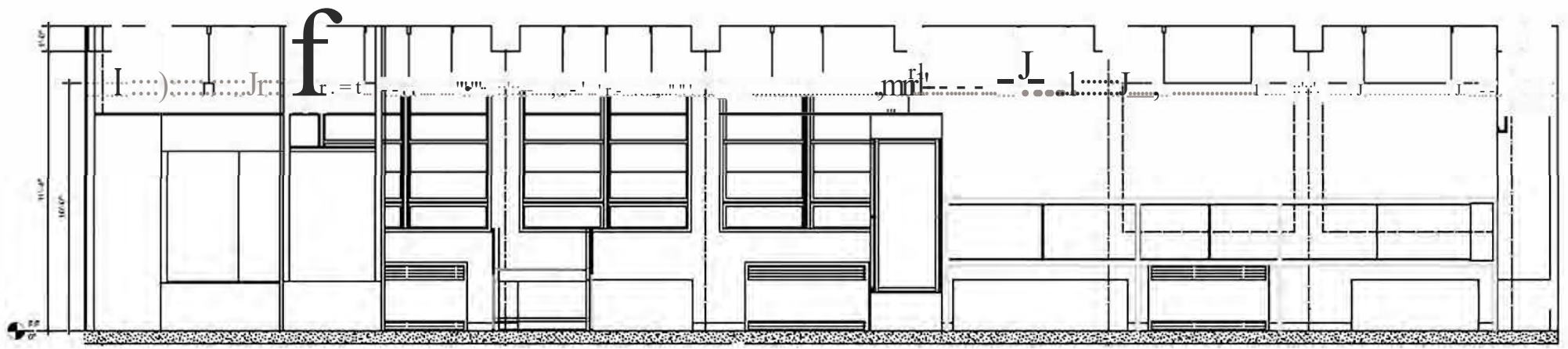




2  
A3.1

E-W Section Looking S

Scale: 3/16" = 1'-0"



1 N-S Section Looking W 2  
A3.0 / Scale: 3/8" = 1'-0"

**REQUEST FOR CAPITAL PROJECT CONSTRUCTION APPROVAL for  
NORTHROP HALL RADIOGENIC ISOTOPES LAB HVAC  
UNIVERSITY OF NEW MEXICO**

**March 8<sup>th</sup>, 2022**

**REQUESTED ACTION:**

In accordance with Section 7.12 of the Board of Regents Policy Manual and as required by the New Mexico Higher Education Department and New Mexico State Board of Finance, project approval is requested for **Radiogenic Isotopes Lab HVAC Improvements in Northrop Hall, at the Albuquerque Main Campus.**

**PROJECT DESCRIPTION:**

A0024-Northrop Hall is 76,745 gross square feet (GSF) and comprised primarily of research laboratories and cleanrooms, with some administrative office and instruction spaces.

Removal of the no-longer-necessary Thermal Ionization Mass Spectrometer (TIMS) and relocation of the more-capable Multicolor Inductively-Coupled Plasma-Mass Spectrometer (MC ICP-MS) are required to support the research done in the Radiogenic Isotopes Labs. Upgrades to the HVAC systems and the controls systems serving those labs are required to provide an operable laboratory environment (class 100, +/-1°F) and to support the process equipment and the specialized research done there.

This project will: 1) remove and salvage the existing TIMS and its appurtenances from laboratory 307C, 2) relocate the existing MC ICP-MS and its appurtenances from laboratory 308B to laboratory 307C, 3) replace the exhaust fans serving the Radiogenic Isotopes Labs with new fans and exhaust stacks, 4) replace the lab Makeup Air Handler (MAH) components necessary to achieve design cooling and heating capacity, airflows and pressurization and to meet modern refrigerant use standards as well as the strict micro contamination requirements of the laboratory, and 5) upgrade the existing controls system to modern digital controls standards for control of the lab HVAC.

**PROJECT RATIONALE:**

The UNM Radiogenic Isotopes Labs were founded, and are directed by Dr. Yemane Asmerom, a distinguished professor of isotope geochemistry in the UNM Department of Earth & Planetary Sciences. Over the last decade, Dr. Asmerom has been part of the leading edge in the technical, conceptual, and applied developments in uranium-series isotope geochemistry.

The research done in the Radiogenic Isotopes Labs requires that the MC ICP-MS be relocated adjacent to the clean lab. The HVAC system serving the clean lab areas, although highly specialized and well-constructed, does not have the thermal or airflow capacities to support the equipment and lab pressurization requirements. The refrigeration system serving the Tisdale Makeup Air Handler is based on the refrigerant R-22, the production or importation of which has been banned in the US by the EPA as of January 1, 2020. The HVAC controls system, although

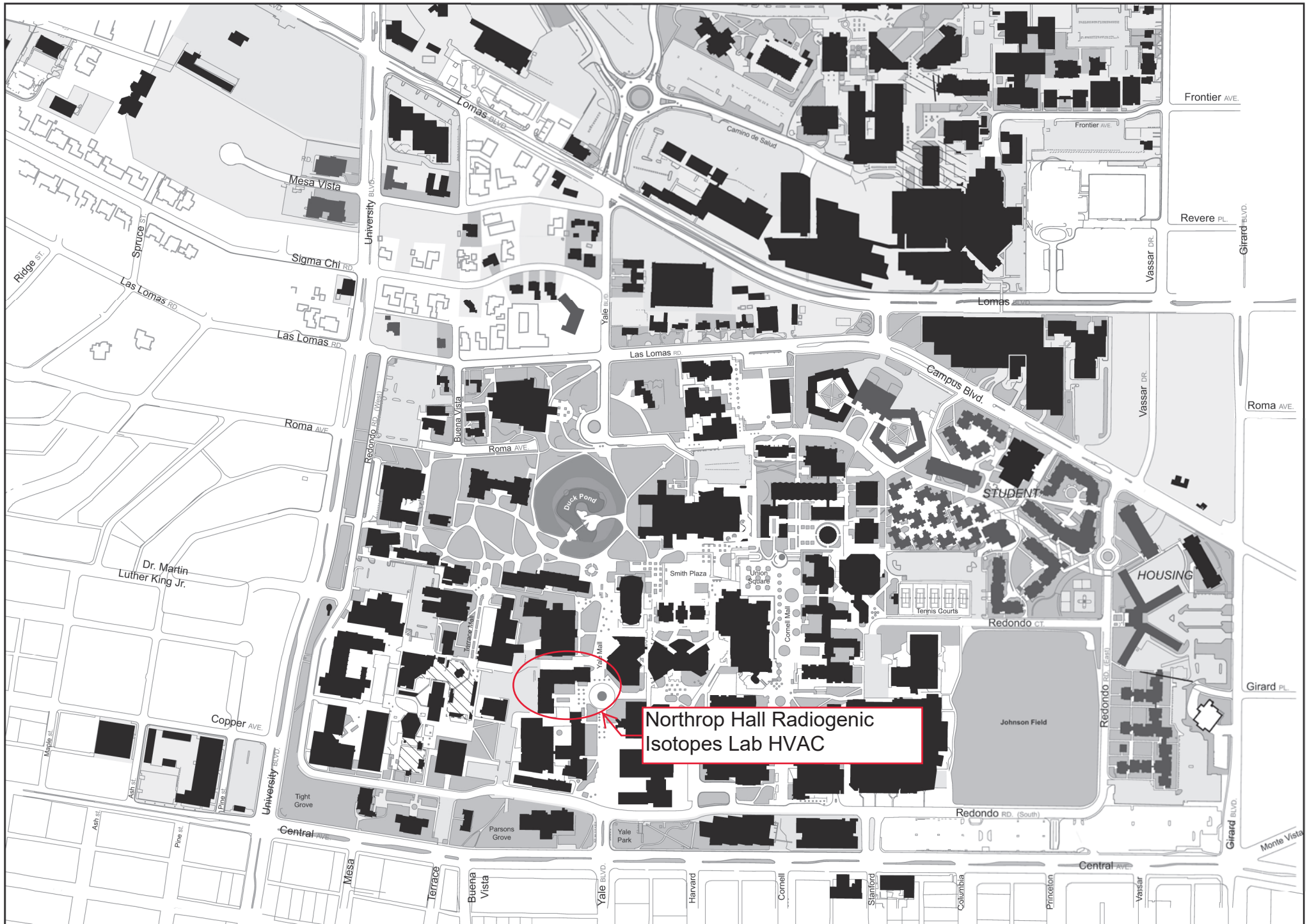
Direct-Digital-Control (DDC) -based, is outdated and will require upgrades to control the new HVAC system/components.

**FUNDING:**

The total estimated Project Budget is \$375,000:

- \$375,000 is funded from 2021 Severance Tax Bonds

# The University of New Mexico - Central Campus







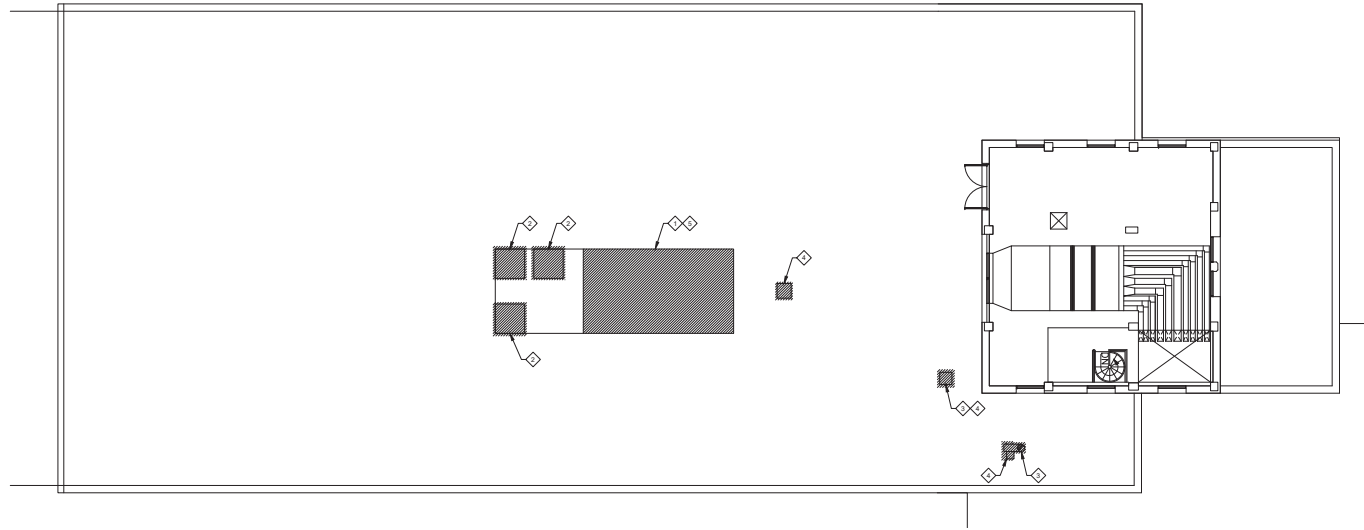








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**1 ELECTRICAL ROOF DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"



**DEMOLITION NOTES:**

- A. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING ELECTRICAL DEVICES THAT PERTAIN TO THIS PROJECT. PROVIDE A REASONABLE ALLOWANCE FOR ITEMS REQUIRED TO BE DEMOLISHED THAT ARE NOT INDICATED ON THESE PLANS.
- B. CONTRACTOR SHALL PATCH, PAINT AND REPAIR BACK TO ORIGINAL CONDITION ANY DAMAGE ON WALLS, CEILING, FLOOR, ETC AS RESULT OF DEMOLITION.
- C. ALL LIGHTS, SWITCHES, DEVICES, ETC. INDICATED ARE TO BE REMOVED UNLESS NOTED OTHERWISE.
- D. CONTRACTOR SHALL MAINTAIN CIRCUIT CONTINUITY FOR ANY ELECTRICAL DEVICES TO REMAIN.
- E. ANY EXISTING DEVICES TO REMAIN IN PLACE SHALL BE REPLACED WITH NEW WHITE DEVICE AND COVER PLATE.

**◇ FLAG NOTES:**

- 1. DISCONNECT AIR HANDLING UNIT. REMOVE ASSOCIATED WIRING. RE-LABEL CIRCUIT AS "SPARE" IN PANEL. EXISTING CONDUIT MAY REMAIN FOR REUSE.
- 2. DISCONNECT CONDENSING UNIT. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE. LABEL CIRCUIT AS "SPARE" AND TURN BREAKERS OFF.
- 3. REMOVE COMBINATION STARTER AND DISCONNECT EXHAUST FAN. RETAIN CONDUIT AND WIRING FOR REUSE FOR NEW UNIT.
- 4. REMOVE DUCT DETECTOR. FIELD VERIFY LOCATION. REMOVE CONDUIT AND WIRING BETWEEN ROOFTOP UNIT AND EXHAUST FANS AND REMOVE CONTROL WIRING.
- 5. DISCONNECT 120V CIRCUIT SERVING RECEPTACLES AND LIGHTING INSIDE AIR HANDLING UNIT. RETAIN HOMERUN CONDUIT AND WIRING IN PLACE FOR REUSE.



SEAL  
**100% CDS FOR REVIEW**

UNIVERSITY OF NEW MEXICO  
NORTHROP HALL  
221 YALE BLVD. N.E.

Current Issue:

50% Construction Documents

Issued:	
Progress Set:	06/19/2017

Sheet Title:

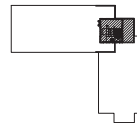
**ELECTRICAL ROOF DEMOLITION PLAN**

Date:	06/19/2017
Designated:	PJM
Reviewed:	CSO
Project No.:	8817-00

Sheet No.:

**ED-104**

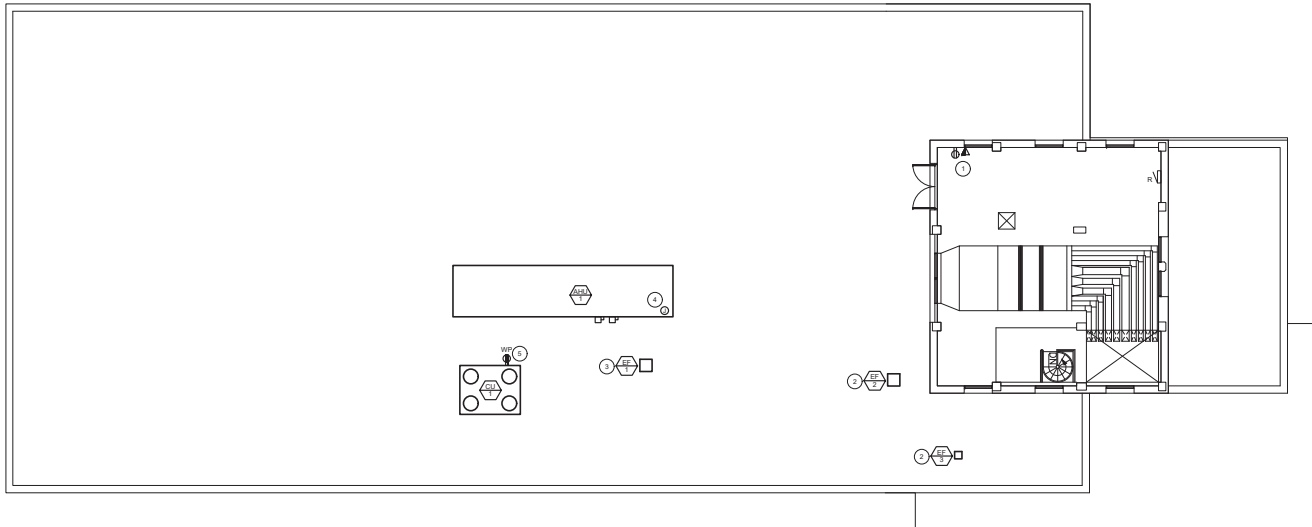
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KEYPLAN  
4TH FLOOR PLAN



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



**NOTES:**

- A. ALL WIRING SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
- B. ALL NEW CIRCUITS ARE SHOWN IN BOLD IN PANEL SCHEDULE. ALL EXISTING CIRCUITS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY.
- C. REFER TO MECHANICAL PLANS FOR NEW EQUIPMENT CONNECTIONS.

**FLAG NOTES:**

- 1. PROVIDE RECEPTACLE AND DATA OUTLET FOR HVAC CONTROL CABINET. REFER TO MECHANICAL FOR LOCATION. EXTEND 120V POWER FROM NEAREST SOURCE. VERIFY CONNECTED LOAD DOES NOT EXCEED 16A. EXTEND DATA CABLE FROM NEAREST IDF ROOM. COORDINATE LOCATION AND CABLEING REQUIREMENTS WITH CAMPUS IT.
- 2. RECONNECT EXISTING WIRING AND CONDUIT RETAINED DURING DEMOLITION TO NEW EXHAUST FANS.
- 3. EXTEND 20A/3P BRANCH CIRCUIT FROM EF-3 TO NEW EF-1.
- 4. CONNECT INTERIOR LIGHTING, PREWIRED FROM FACTORY. TO 120V BRANCH CIRCUIT RETAINED DURING DEMOLITION.
- 5. EXTEND 120V BRANCH CIRCUIT SERVING AHU-1 LIGHTING TO SERVICE RECEPTACLE BUILT-IN TO CU-1.



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100% CDs FOR REVIEW

UNIVERSITY OF NEW MEXICO  
NORTHROP HALL  
221 YALE BLVD. N.E.

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Sheet No:  
**E-104**  
Scale: As Shown



KEYPLAN  
4TH FLOOR PLAN



**GENERAL NOTES (MECHANICAL SPECIFICATIONS)**

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. ALL SUBCONTRACTORS SHALL BE LICENSED, EXPERIENCED, AND THOROUGHLY KNOWN/DEALABLE IN THEIR RESPECTIVE AREAS OF THE CONSTRUCTION INDUSTRY, AND SHALL PERFORM IN A RESPONSIBLE MANNER WITH ESTABLISHED CONSTRUCTION SEQUENCE, SHALL RECOGNIZE THE PRIORITY OF THE CONSTRUCTION DOCUMENTS, AND SHALL INFORM THE PRIME CONTRACTOR OF POTENTIAL PROBLEMS WHEN THE CONSTRUCTION DOCUMENTS ARE IN CONFLICT OR INCONSISTENT.
3. SUBCONTRACTORS SHALL BE RESPONSIBLE TO NOTIFY THE PRIME CONTRACTOR OF DISCREPANCIES OR CONFLICTS IN THE CONSTRUCTION DOCUMENTS FOUND DURING BIDDING AND/OR PRIOR TO PERFORMING THE WORK.
4. EXAMINATION OF BIDDING DOCUMENTS.
  - A. EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY, AND NOT LATER THAN SEVEN (7) DAYS PRIOR TO THE DATE OF RECEIPT OF BIDS, SHALL MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITIES, INCONSISTENCIES, OR ERRORS THEREIN WHICH HE MAY DISCOVER. THE ARCHITECT WILL ISSUE ANY INTERPRETATION OR CORRECTION AS AN ADDENDUM. ONLY A WRITTEN INTERPRETATION OR CORRECTION BY ADDENDUM SHALL BE BINDING. NO BIDDER SHALL RELY UPON INTERPRETATIONS OR CORRECTIONS GIVEN BY ANY OTHER METHOD. IF DISCREPANCIES, AMBIGUITIES, INCONSISTENCIES, OR ERRORS ARE NOT COVERED BY ADDENDUM OR WRITTEN DIRECTIVE, CONTRACTOR SHALL INCLUDE HIS BID, LABOR MATERIALS AND METHODS OF CONSTRUCTION RESULTING IN HIGHER COST. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE ON BEHALF OF THE CONTRACTOR DUE TO HIS FAILURE TO MAKE THE WRITTEN REQUESTS AS DESCRIBED ABOVE.
  - B. FAILURE TO REQUEST CLARIFICATION DURING THE BID PERIOD OF ANY INADEQUACY, OMISSION, OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED AS IMPLICITLY ACKNOWLEDGING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE CONSTRUCTION CONTRACT DRAWINGS AND SPECIFICATIONS.
6. PROVIDE A BASE BID WHICH SHALL INCLUDE ONLY SPECIFIED EQUIPMENT OR EQUIPMENT LISTED AS EQUIVALENT. NO SUBSTITUTIONS FOR THE LISTED EQUIPMENT SHALL BE ALLOWED IN THE BASE BID.
  - A. THE MANUFACTURER OF EQUIPMENT OR MATERIALS FIRST NAMED ON THE DRAWINGS IS THE BASIS OF DESIGN. OTHER MANUFACTURERS LISTED ARE CONSIDERED GENERAL EQUIVALENTS ONLY.
  - B. COORDINATION OF GENERAL EQUIVALENTS AND SUBSTITUTIONS: WHERE CONTRACT DOCUMENTS PERMIT SELECTION FROM SEVERAL GENERAL EQUIVALENTS, OR WHERE SUBSTITUTIONS ARE MADE, COORDINATE CLEARANCE AND OTHER INTERFACE REQUIREMENTS WITH MECHANICAL AND OTHER WORK.
    - 1) PROVIDE NECESSARY ADDITIONAL ITEMS SO THAT SELECTED OR SUBSTITUTED ITEM OPERATES EQUIVALENT TO THE BASIS OF DESIGN AND PROPERLY FITS IN THE AVAILABLE SPACE ALLOCATED FOR THE BASIS OF DESIGN.
    - 2) PROVIDE ALL FEATURES WHICH ARE STANDARD ON THE BASIS OF DESIGN PLUS ANY SPECIFIED OPTIONS.
    - 3) BE RESPONSIBLE FOR ASSURING THAT PIPING, CONDUIT, DUCT, FLUE, AND OTHER SERVICE EQUIPMENT FOR GENERAL EQUIVALENTS OR SUBSTITUTIONS DO NOT CAUSE ACCESS, SERVICE, OR OPERATIONAL DIFFICULTIES ANY GREATER THAN THAT WOULD BE ENCOUNTERED WITH THE BASE DESIGN.
  7. INASMUCH AS DESIGN FOR REMODEL AND/OR REHABILITATION REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE BUILDING, THE ENGINEER CANNOT ASSURE THE OWNER OR THE CONTRACTOR THAT THE PROFESSIONAL CONSULTING SERVICES HEREIN ENCOMPASS ALL CONTINGENCIES. FIELD COORDINATION DURING CONSTRUCTION IS IMPERATIVE. MAKE REASONABLE ALLOWANCES FOR UNSEEN CONDITIONS.
  8. BE RESPONSIBLE TO FIELD VERIFY EXISTING EQUIPMENT OR DUCTWORK REMAINING TO BE CONNECTED TO NEW OR EXISTING SYSTEMS. PROVIDE DUCTWORK, PIPING, CONTROLS, DIFFUSERS, ETC., AS REQUIRED TO RESTORE CONTINUITY OF SYSTEM (S), OR TO MAKE (NEW) WORK MEET EXISTING CONDITIONS, WHETHER INDICATED OR NOT.
  9. SUBCONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITY SERVICES AND COORDINATE AS RESPECTIVE BY THEIR RESPECTIVE AREA OF THE CONSTRUCTION, NOTIFYING THE PRIME CONTRACTOR OF VARIATIONS OR CONFLICTS.
  10. IF NOT SPECIFICALLY DEFINED IN THESE CONSTRUCTION DOCUMENTS, MATERIALS AND/OR EQUIPMENT SHALL BE IDENTIFIED BY THE SUBCONTRACTOR WITH SUFFICIENT TIME TO ALLOW SELECTION, PURCHASE, AND DELIVERY TO MAINTAIN CONSTRUCTION SCHEDULE.
  11. PROVIDE MECHANICAL DEMOLITION AS REQUIRED. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED. EXISTING FIXTURES, MECHANICAL EQUIPMENT, ETC., BEING REMOVED SHALL BE RETURNED TO THE OWNER. DISPOSE OF ALL REMOVED PIPING, DUCTWORK, ETC. UNLESS NOTED OTHERWISE. PIPES, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED, ARE SHOWN HATCHED, UNLESS OTHERWISE NOTED.
  12. ALL DUCTWORK, DIFFUSERS, PIPING, FIXTURES, AND EQUIPMENT SHOWN IN LIGHT LINE WEIGHT IS EXISTING, NEW INDICATED BY HEAVIER LINE WEIGHT, EXCEPT WHERE NOTED. PIPES, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED, ARE SHOWN HATCHED.
  13. OFFSET PIPING, DUCTWORK, ETC. AS NECESSARY TO ACCOMMODATE STRUCTURE, BEAMS, AND COLUMNS, AND EXISTING EQUIPMENT.
  14. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT, OWNER, AND ENGINEER.
  15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM HISHER WORK IN CONFORMANCE WITH ALL APPLICABLE CODES, ORDINANCES AND LIFE SAFETY FEATURES AS REQUIRED BY LOCAL, STATE, OR NATIONAL AUTHORITIES. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECT IF MODIFICATION OF HISHER WORK IS REQUIRED FOR COMPLIANCE.
  16. ALL WORK OF ALL TRADES MUST BE IN STRICT COMPLIANCE, OR EXCEED THE MINIMUM MATERIAL AND METHOD REQUIREMENTS OF THE 2012 EDITION OF THE UNIFORM MECHANICAL AND PLUMBING CODE, FIRE CODES AND THE 2014 NATIONAL ELECTRICAL CODE, MOST CURRENT NFPA, ALL LOCAL ORDINANCES AND AGREEMENTS AND MANUFACTURERS INSTALLATION RECOMMENDATIONS. IF A CONFLICT BETWEEN THOSE PUBLICATIONS EXISTS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
  17. PAY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS. PRIOR TO FINAL PAYMENT, TURN OVER TO ARCHITECT ALL CERTIFICATES OF COMPLETION.
  18. WARRANTY THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. THE WARRANTY SHALL BE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
  19. SUBMIT RECORD DOCUMENTS TO ARCHITECT. DOCUMENTS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REWORKS, ETC.
  20. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION PRIOR TO ACCEPTANCE BY THE OWNER.
  21. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. PERFORM AT A MINIMUM ALL CODE REQUIRED TESTS OR SYSTEMS. IF TESTS OF WORK ARE DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
  22. ALL MATERIALS AND/OR EQUIPMENT SHALL BE HANDLED AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
  23. SUBMIT ALL MECHANICAL DIVISION SHOP DRAWING AND PRODUCT DATA AT ONE TIME. PARTIAL SUBMITTALS WILL BE REJECTED.
  24. SHOP DRAWING SUBMITTALS SHALL STATE CAPACITIES, SIZES, ETC., OF ALL EQUIPMENT AND SHALL BE CERTIFIED BY THE MANUFACTURER. MAKE CLEARLY SPECIFIED SELECTIONS WHERE APPLICABLE. CLEARLY MARK EACH SHOP DRAWING, CATALOG OUT AND/OR SPECIFICATION SHEET TO INDICATE THOSE PRODUCTS AND FEATURES WHICH ARE INTENDED TO BE FURNISHED.

- SPECIFICALLY INDICATE ANY DEVIATIONS FROM THE DESIGN INTENT. ENGINEER RESERVES THE RIGHT TO REQUIRE CORRECTION AT NO COST TO OWNER FOR DEVIATIONS NOT SPECIFICALLY INDICATED IN THE SUBMITTALS. REVIEW AND APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF FURNISHING EQUIPMENT AND MATERIALS OF PROPER DIMENSION, SIZE, QUANTITY, QUALITY AND ALL PERFORMANCE CHARACTERISTICS TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE CONTRACT DOCUMENTS. SUBMITTAL SHALL BE BOUND AND INDEXED IN A NEAT AND ORDERLY MANNER.
25. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: EQUIPMENT, FIXTURES, INSULATION, DIFFUSERS, PUMPS, FANS, PIPING, VALVES, BOLTERS, FURNACES, CONTROLS, AND FIRE PROTECTION.
  26. FAILURE TO ORDER, OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHOD.
  27. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SURFACING, SAWCUTTING AND PATCHING, CONCRETE PAVING, ETC., AS REQUIRED. BACKFILL TRENCHES IN 6" LAYERS AND TO 90% COMPACTION AND PATCH TO MATCH EXISTING GRADE.
  28. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.
  29. TEMPORARY HEAT SHALL BE FURNISHED BY THE GENERAL CONTRACTOR. USE OF THE PERMANENT HEATING SYSTEM WILL NOT BE ALLOWED.
  30. COORDINATE ALL PENETRATIONS OF THE FLOOR SLAB PRIOR TO COMMENCING WORK. UTILIZE X-RAY AND VISUAL INVESTIGATION OF EXISTING CONDITIONS PRIOR TO DRILLING OR CUTTING. COORDINATE ALL NEW PENETRATIONS WITH OTHER DIVISIONS OF THE WORK. ALL CONTRACTORS ARE INDIVIDUALLY RESPONSIBLE FOR ALL PENETRATIONS REQUIRED BY THEIR DIVISIONS.
  31. FIRE STOPPING REQUIREMENT. PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOP. ASTM E-814. ACCEPTABLE MATERIALS INCLUDE: DOW CORNING RTV FIRE STOP FOAM FOR BARE METAL CONDUIT, AND ELECTRICAL CABLE; 3M FIRE DAM 150 CALK FOR BARE PIPE, METAL CONDUIT, AND BUILDING CONSTRUCTION GAPS; 3M CP-25 CALK AND FS-195 INTUMESCENT STRIPS FOR INSULATED PIPES, PLASTIC CONDUIT, AND ELECTRICAL CABLE. SUBMIT UL LISTED APPLICATION DATA FOR EACH TYPE OF PENETRATION ENCOUNTERED.
  32. DUCTS, TYPING, AND CONDUITS PENETRATING THROUGH ROOF SHALL HAVE ROOF FLASHING COMPATIBLE WITH THE ROOFING SYSTEM. SEE ARCHITECTURAL DRAWINGS. IN THE ABSENCE OF ANY OTHER REQUIREMENTS, PROVIDE SHEET LEAD TYPE FLASHING FOR LUMBERING VENTS IN BUILT-UP ROOFS, TALL COLE WITH EPDM BOOT FOR PIPE AND CONDUIT IN SINGLE PLY MEMBRANE ROOFS, AND CURBED ROOF PENETRATIONS IN ALL TYPES OF ROOF. INSTALLATION SHALL BE WATER TIGHT.
  33. CAREFULLY VERIFY ELECTRICAL SERVICE VOLTAGE AND PHASE AVAILABLE.
  34. MOUNT ALL STATS AT 48" AFF IN "ACCESSIBLE" AREAS, 48" AFF IN OTHER AREAS, UNLESS NOTED OTHERWISE. COORDINATE LOCATION WITH WALL FINISH, AND TO AVOID CASEWORK, FURNITURE, DOOR SWINGS, HEAT SOURCES, AND EXTERIOR WALLS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO BEGINNING THERMOSTAT INSTALLATION.
  35. SUBMIT A WRITTEN BALANCE REPORT BY A NEBB OR AABC CERTIFIED BALANCING CONTRACTOR. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH NEBB OR AABC GUIDELINES FOR PROPORTIONAL BALANCE. SUBMIT REPORT ON STANDARD NEBB FORMS FOR REVIEW PRIOR TO BALANCING. MEASUREMENTS SHALL INCLUDE ALL MOTOR AMPERAGE AND VOLTAGE READINGS, MOTOR AND FAN RPM'S, STATIC PRESSURE AT INLET AND OUTLET OF ALL PACKAGED EQUIPMENT, FANS, COLLS, AND FILTERS; PILOT TUBE MEASUREMENT OF SUPPLY EXHAUST, RETURN, AND OUTSIDE AIR MAIN DUCTS, AT MINIMUM OUTSIDE AIR, AND 100% (EQUIMASS) DISTRIBUTION THROUGHOUT THE SYSTEM; FAN, EXHAUST, AIR INLET AND OUTLETS; WATER FLOW AT ALL FLOW MEASUREMENT STATIONS; INLET AND OUTLET PRESSURE AT PUMPS WITH FLOW CALCULATED FROM THE PUMP CURVE; WATER FLOW, TEMPERATURE DROP, AND PRESSURE DROP AT ALL COLLS.

- A. PROVIDE BELTS AND SHEAVES AS REQUIRED FOR DRIVE CHANGES TO ADJUST FAN SPEED.
  - B. ADJUST FLOWS TO WITHIN 3% OF REQUIRED QUANTITY. WHERE ROOM AIR PRESSURE RELATIONSHIP ARE REQUIRED TO BE MAINTAINED AS SHOWN BY A DIFFERENTIAL OF SUPPLY AND EXHAUST RETURN OR BY NOTE, ADJUST SUPPLY TO WITHIN 3% AND THEN ADJUST EXHAUST RETURN TO PROVIDE THE INDICATED ROOM PRESSURE. IF ACTUAL QUANTITY IS LESS THAN 80%, INVESTIGATE CAUSE, ATTEMPT TO RECTIFY AND NOTIFY ENGINEER. SUBMITTAL OF BALANCE REPORT WITH LESS THAN REQUIRED FLOWS WITHOUT EXPLANATION IS CAUSE FOR REJECTION OF REPORT.
  - C. SUBMIT ONE (1) COPY OF ALL SUBMITTALS IN ADDITION TO ANY REQUIRED BY THE CONTRACTOR AND HIS SUPPLIERS.
  - D. RETAIN ONE (1) COPY OF REVIEWED SUBMITTALS FOR INCLUSION IN THE OWNER'S MANUAL.
47. DUCTWORK (LOW VELOCITY)
    - A. PVC DUCT WORK
      - 1) COMPLY WITH SMACNA'S THERMO PLASTIC DUCT CONSTRUCTION MANUAL.
      - 2) PVC SHEETS: EXCEPT AS OTHERWISE INDICATED, FABRICATE DUCTWORK FROM STRESS RELIEVED PVC SHEETS. THE SHEETS SHALL BE EXTRUDED OR COMPRESSION MOLDED, DEPENDING ON GAUGE.
      - 3) SEAMS AND JOINTS SHALL BE THERMALLY WELDED, UTILIZING PVC WELDING SPLINE.
      - 4) RECTANGULAR DUCTING - THE SIZES OF RECTANGULAR DUCTING SHALL BE DETERMINED BY THE INSIDE DIMENSION THERE ARE NO STANDARD SIZES FOR RECTANGULAR DUCTING UNLESS OTHERWISE SPECIFIED, THE TOLERANCE ON ORDERED SIZES SHALL BE ±1% FOR DIMENSIONS 20 INCH AND UNDER AND ±2 ONE PERCENT ON DIMENSIONS GREATER THAN 20 INCH. WALL THICKNESS SHALL BE A MINIMUM OF 0.187".
    - B. STAINLESS STEEL DUCT WORK
      - 1) COMPLY WITH SMACNA'S SHEET METAL DUCT CONSTRUCTION MANUAL.
  48. DUCTWORK NOTES:
    - A. DIFFUSER NECK SIZE IS SAME AS SUPPLY DUCT SIZE.
    - B. UNLESS OTHERWISE NOTED, ALL CHANGES IN DIRECTION SHALL BE MADE WITH RADIUS ELBOWS WITH RADIUS TO CENTERLINE EQUAL TO 1.5 DUCT WIDTH.
      - 1) WHERE REQUIRED FOR SPACE CONSTRAINTS, PROVIDE SQUARE THROAT ELBOWS WITH SINGLE WIDTH (NON-ARROW) TURNING VANES.
      - 2) FOR DUCT DEPTHS OF 36" OR LESS, PROVIDE MANUFACTURED SINGLE WIDTH (NON-ARROW) TURNING VANES, WITH SPACING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR STANDARD SPACING; USE DOUBLE THICKNESS BLADES FOR DUCT DEPTHS GREATER THAN 36". USE NO TRAILING EDGES.
    - C. DRAIN PAN PIPING: NOT BURIED; TYPE "M" COPPER, WROUGHT COPPER FITTINGS, AND 90-5 SOLDER. BURIED: TYPE "L" COPPER, WROUGHT COPPER FITTINGS, AND 90-5 SOLDER. ALL BURIED PIPE SHALL BE SURROUNDED WITH 4" OF CLEAN SAND.
    - D. REFRIGERATION PIPING-TYPE "L", ACR GRADE COPPER, CLEANED, DEHYDRATED, AND CAPPED AT THE FACTORY. USE WROUGHT COPPER FITTINGS AND HARD SOLDER HAVING A MINIMUM MELTING POINT OF 1100 DEGREES F FOR BURIED LINES, 90-5 SOLDER FOR NON-BURIED LINES. SNAP-ON AND SPECIALTIES SHALL BE STANDARD BRASS OR BRONZE VALVES FOR REFRIGERATION SERVICE. BURIED PIPE SHALL BE SURROUNDED BY 4" CLEAN SAND.
    - E. SUPPORT EACH AIR OR REFRIGERATION COMPRESSOR, BASE MOUNTED PUMP, AIR HANDLING UNIT AND FAN BY MASON INDUSTRIES OR EQUIVALENT SPRING TYPE VIBRATION ISOLATORS.
    - F. INDOOR PIPING INSULATION - INSULATE ALL HEATING WATER, STEAM AND CONDENSATE PIPING, CHILLED WATER, REFRIGERANT, DOMESTIC WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER REGULATION WITH INS APPROVED, WHITE, ALL SERVICE, CELLULAR GLASS OR POLYISOCYANURATE, PRE-MOLDED, SNAP-ON, PIPE INSULATION. INSULATE FITTINGS WITH VALVE MARKERS AND FLOW ARROWS ON PIPING. PROVIDE ENGRAVED PLASTIC VAGS WITH VALVE NUMBERS AND ATTACH WITH STANDARD CHAIN OR S-HOOKS. PROVIDE ENGRAVED PLASTIC SIGN ON OR NEAR SPECIFIED EQUIPMENT.

FLAME SPREAD RATING OF 25 OR LESS. PROVIDE CALCIUM SILICATE THERMAL INSERT AT HANGERS AND SUPPORTS. INSULATION SHALL PASS UNINTERRUPTED THROUGH HANGERS. VAPOR BARRIERS SHALL BE CONTINUOUS AND SEALED WITH "NON-BREATHING" VAPOR BARRIER MASTIC ON PIPING OPERATING AT TEMPERATURES BELOW AMBIENT. ALL RAW EDGES OF INSULATION SHALL BE NEATLY TRIMMED AND SEALED WITH MASTIC.

INSULATION THICKNESS BELOW BASED ON INSULATION CONDUCTIVITY VALUE NOT EXCEEDING 0.27 BTU/(IN\*HR\*FT<sup>2</sup>\*F):

- 1) LOW PRESSURE STEAM @ 15 PSIG) AND CONDENSATE: 3" DIA. AND LESS; 2.5" THICK; 4" DIA. AND GREATER, 3" THICK.
- 2) CHILLED WATER, BRINE AND REFRIGERANT (NOT LESS THAN 40F) - ALL PIPE SIZES, 1" THICK.
- 3) FOR PIPING SMALLER THAN 1-1/2" DIA. LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, INSULATION THICKNESS REDUCTION OF 1" NOT RESULTING IN AN INSULATION THICKNESS LESS THAN 1", SHALL BE ALLOWED, FOR DIRECT BURIED HEATING OR HOT WATER PIPING, A REDUCTION OF 1-1/2" NOT RESULTING IN AN INSULATION THICKNESS LESS THAN 1", SHALL BE ALLOWED.

70. OUTDOOR PIPING INSULATION: INSULATE ALL STEAM AND CONDENSATE PIPING, REFRIGERANT PIPING WITH UL APPROVED, WHITE, ALL SERVICE, CELLULAR GLASS OR POLYISOCYANURATE, PRE-MOLDED, SNAP-ON, PIPE INSULATION. INSULATE FITTINGS WITH PRE-MOLDED INSULATING FITTINGS. VAPOR BARRIERS SHALL BE CONTINUOUS AND SEALED WITH "NON-BREATHING" VAPOR BARRIER MASTIC ON PIPING OPERATING AT TEMPERATURES BELOW AMBIENT. ALL RAW EDGES SHALL BE NEATLY TRIMMED AND SEALED WITH MASTIC. PROVIDE STAINLESS STEEL OR ALUMINUM JACKET WITH 2-SHAPED LOCKING SEAM.



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NORTHROP HALL  
221 YALE BLVD. N.E.

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Issued: 06.19.2017  
Prepared: KJB

Sheet Title:  
MECHANICAL  
GENERAL NOTES

Date: 06.19.2017  
Designed: KJB  
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M-002

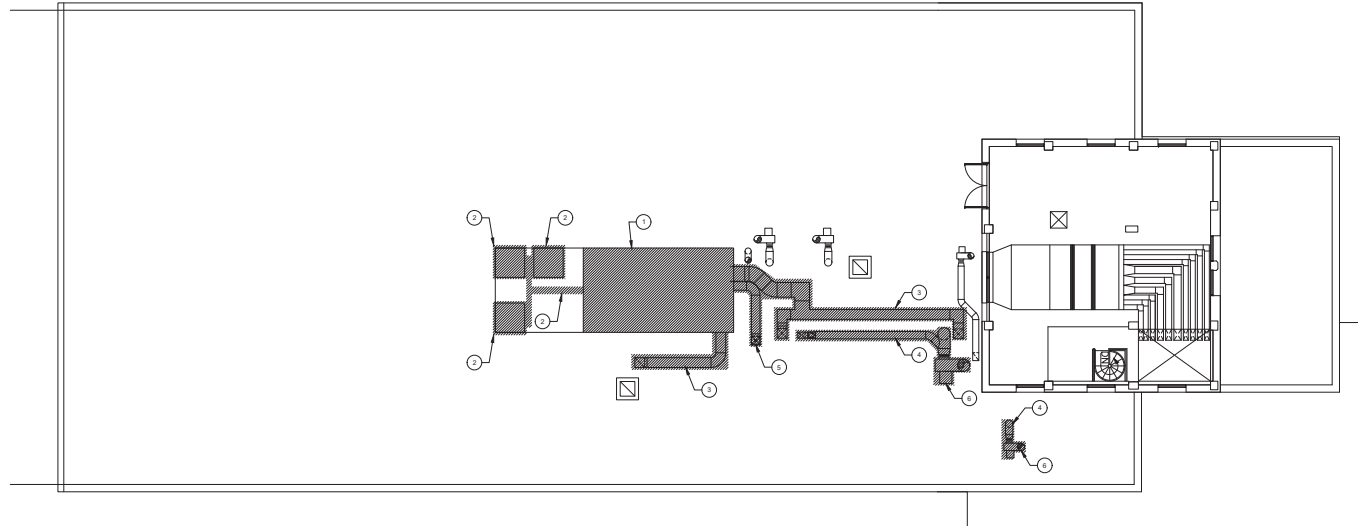
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1 MECHANICAL ROOF PLAN  
SCALE: 1/8" = 1'-0"

**DEMOLITION NOTES:**

1. ADDITIONAL STORM HYDRONIC DOMESTIC WASTE AND VENT PIPING MAY BE ROUTED IN SPACE THAT IS NOT REPRESENTED, BUT IS TO REMAIN. OTHER SYSTEMS MAY EXIST WITHIN THE SPACE THAT ARE NOT REPRESENTED ON THESE DRAWINGS. MODIFICATIONS TO THESE SYSTEMS ARE NOT ANTICIPATED.
2. FIELD VERIFY ALL COMPONENTS PRIOR TO DEMOLITION. THE INFORMATION ON THIS SHEET WAS OBTAINED IN PART FROM HISTORIC DESIGN DRAWINGS. ONLY PORTIONS OF THE SYSTEMS WERE ACCESSIBLE FOR VISUAL CONFIRMATION DURING DESIGN PROCESS.
3. PROVIDE PRELIMINARY TESTING OF EXISTING HYDRONIC SYSTEMS. MEASURE CURRENT FLOW RATE THROUGH ALL EXISTING COILS, RADIANT, AND INDOOR ZONES FOR THE CURRENTLY INSTALLED SYSTEMS. SUBMIT REPORT OF MEASURED VALUES TO ENGINEER FOR REVIEW AND CONFIRMATION OF SYSTEM DESIGN ASSUMPTIONS PRIOR TO DEMOLITION.
4. PROVIDE PRELIMINARY TESTING OF EXISTING HVAC DUCTWORK SYSTEMS. MEASURE CURRENT AIR FLOW RATES AT ALL EXISTING SUPPLY, RETURN, AND EXHAUST REGISTERS. MEASURE TOTAL AIR FLOWS AT MAIN DUCT BRANCHES AND ALL FAN SYSTEMS. SUBMIT REPORT OF MEASURED VALUES TO ENGINEER FOR REVIEW AND CONFIRMATION OF SYSTEM DESIGN ASSUMPTIONS PRIOR TO DEMOLITION.
5. (E) WASTE SYSTEM SERVING SPACE IS LOCATED IN THE CEILING OF THE SPACE BELOW.
6. REMOVE ALL MECHANICAL ITEMS INDICATED.
7. TEMPORARILY SEAL OR CAP PIPING TO BE RE-USED FOR LATER CONNECTION.
8. SEAL ALL OPEN DUCTS DURING CONSTRUCTION TO MITIGATE DUST AND DEBRIS FROM SYSTEM. CAP DUCTWORK IN LOCATIONS THAT ARE NOT BEING RECONNECTED.
9. REMOVE ALL DEMOLISHED COLD WATER, HOT WATER AND HOT WATER RECIRCULATION PIPING BACK TO BRANCH FROM MAIN TO ELIMINATE ALL DEAD ENDS IN DOMESTIC WATER PIPING.
10. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OF INFORMATION REPRESENTED IN THE DOCUMENTS VERSUS WHAT IS FOUND IN THE FIELD.
11. COORDINATE PATCHING AND REPAIRS OF WALLS, CEILINGS AND FLOORS WITH ARCHITECT.
12. PATCH STRUCTURAL OPENINGS IN FLOORS, WALLS AND ROOFS THAT WERE PREVIOUSLY OCCUPIED BY SYSTEMS AND EQUIPMENT DEMOLISHED UNDER THIS CONTRACT IN ACCORDANCE WITH STRUCTURAL ENGINEER'S REQUIREMENTS.

**FLAG NOTES:**

1. REMOVE AIR HANDLING UNIT. DISCONNECT REFRIGERANT AND STEAM PIPING.
2. REMOVE CONDENSING UNITS AND ASSOCIATED REFRIGERANT PIPING.
3. REMOVE PVC RETURN DUCT AS SHOWN.
4. REMOVE PVC EXHAUST DUCT AS SHOWN.
5. REMOVE PVC SUPPLY DUCT AS SHOWN.
6. REMOVE FAN STACK, AND ANY SUPPORTS.



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Sheet Title:	MECHANICAL ROOF PLAN
Date:	06/19/2017
Designer:	KJB
Reviewer:	PKW
Project No.:	5817-00
Sheet No.:	

MD-104  
Scale: As Shown

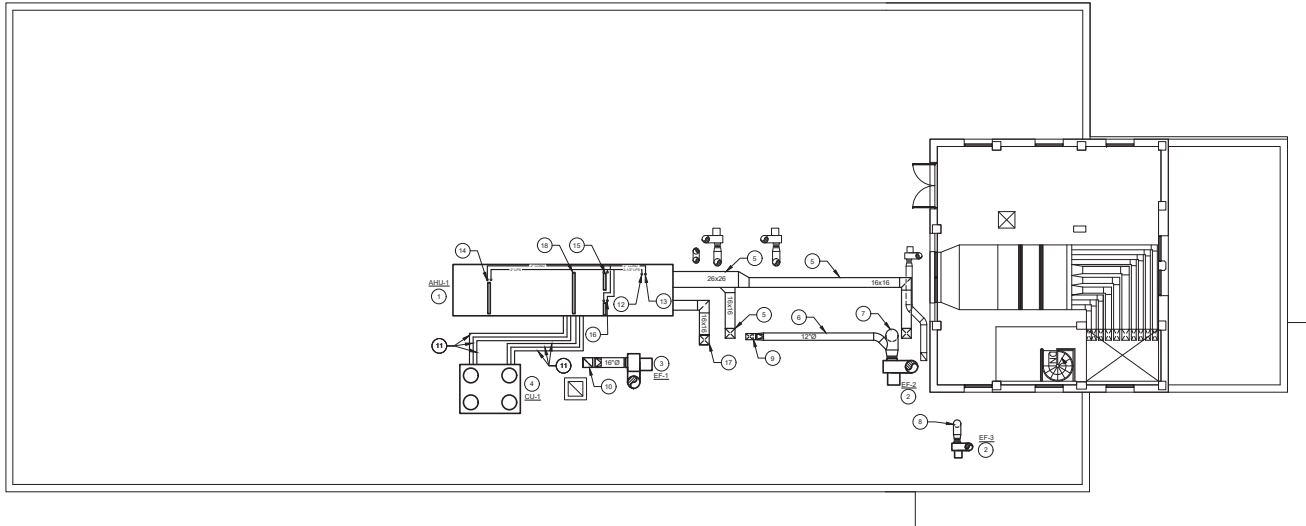


KEYPLAN  
4TH FLOOR PLAN





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

**HVAC NOTES:**

1. RE: M-501 FOR ROUND DUCT TAKE-OFF DIAGRAM.
2. RE: M-501 FOR 45° DUCT TAKE-OFF DIAGRAM.
3. COORDINATE ROUTING OF CONDENSATE DRAIN LINES PRIOR TO INSTALLATION.
4. CEILING COORDINATION OF ALL MEP SYSTEMS (LIGHTING, DUCTWORK, DIFFUSERS, ELECTRICAL, FIRE PROTECTION, ETC.) MUST BE COMPLETED BY THE CONTRACTOR PRIOR TO THE START OF ANY INSTALLATIONS.
5. AVOID ROUTING DUCTWORK OVER ELECTRICAL ROOMS OR ELECTRICAL PANELS. MAINTAIN 6" C.C. CLEARANCES. COORDINATE ROUTINGS WITH DIV. II CONTRACTOR.
6. PROVIDE FLEXIBLE DUCT AND PIPE CONNECTIONS TO ALL MOTORIZED EQUIPMENT.
7. VERIFY ALL EQUIPMENT ACCESS PANELS WITH MANUFACTURER AND ARCHITECT.
8. SEAL ALL DUCT PENETRATIONS OF ACOUSTIC PARTITIONS.

**FLAG NOTES:**

1. NEW AIR HANDLING UNIT ON NEW CURB. COORDINATE ROOF PATCHING WITH GENERAL CONTRACTOR.
2. NEW FRP UTILITY SET EXHAUST FAN ON EXISTING ROOF. PROVIDE TWO CURB TERMS 1 EQUIPMENT RAILS AND COORDINATE ROOF PATCHING WITH GENERAL CONTRACTOR.
3. UTILITY SET FAN ON EQUIPMENT RAILS. COORDINATE ROOF PATCHING WITH GENERAL CONTRACTOR.
4. NEW CONDENSING UNIT ON THYRUBS TERMS 1 EQUIPMENT RAILS. COORDINATE ROOF PATCHING WITH GENERAL CONTRACTOR.
5. PVC SUPPLY DUCT INSULATED AND JACKETED WITH EMBOSSED ALUMINUM JACKETING.
6. 12" ROUND PVC EXHAUST DUCT SUPPORTED ON ROOF.
7. 20" ROUND PVC EXHAUST DUCT DOWN THROUGH ROOF TO LAB BELOW.
8. 12" ROUND PVC EXHAUST DUCT DOWN THROUGH ROOF TO LAB BELOW.
9. 12"x16" EXHAUST DUCT DOWN THROUGH ROOF TO LAB BELOW.
10. 16"x16" STAINLESS STEEL EXHAUST DUCT DOWN THROUGH ROOF TO LAB BELOW.
11. SUPPORT REFRIGERANT LINES ON ROOF AND PROVIDE RESISTANT INSULATION ON PIPING. ROUTE 7/8" LIQUID, 1/2" SUCTON AND 7/8" HOSE LINES TO EACH CIRCUIT OF THE DX COIL.
12. CONNECT TO EXISTING 2-1/2" LOW PRESSURE STEAM LINE AT ROOF AND EXTEND TO THE STEAM COILS.
13. CONNECT TO EXISTING 2" CONDENSATE LINE AT ROOF. MAINTAIN SLOPE OF NEW LINES BACK TO THIS LOCATION.
14. CONNECT 2" STEAM LINE TO STEAM RE-HEAT COIL. PROVIDE 2-WAY CONTROL VALVE INSTALLED INSIDE AIR HANDLER CABINET. CONNECT 2" CONDENSATE LINE FROM COIL AND SLOPE TO EXISTING LINE PENETRATING ROOF. PROVIDE 1/2" TRAP SIZED FOR DOUBLE THE SCHEDULED COIL CAPACITY.
15. CONNECT 2" STEAM LINE TO STEAM RE-HEAT COIL ZONE #2. PROVIDE 2-WAY CONTROL VALVE INSTALLED INSIDE AIR HANDLER CABINET. CONNECT 2" CONDENSATE LINE FROM COIL AND SLOPE TO EXISTING LINE PENETRATING ROOF. PROVIDE 1/2" TRAP SIZED FOR DOUBLE THE SCHEDULED COIL CAPACITY.
16. CONNECT 1-1/4" STEAM LINE TO STEAM RE-HEAT COIL ZONE #2. PROVIDE 2-WAY CONTROL VALVE INSTALLED INSIDE AIR HANDLER CABINET. CONNECT 1" CONDENSATE LINE FROM COIL AND SLOPE TO EXISTING LINE PENETRATING ROOF. PROVIDE 1/2" TRAP SIZED FOR DOUBLE THE SCHEDULED COIL CAPACITY.
17. STAINLESS STEEL SUPPLY DUCT INSULATED AND JACKETED WITH EMBOSSED ALUMINUM JACKETING.
18. PROVIDE 1" TYPE M COPPER CONDENSATE LINE FROM DRAIN PAN TO THE NEAREST ROOF DRAIN.



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Sheet Title:  
**MECHANICAL ROOF PLAN**

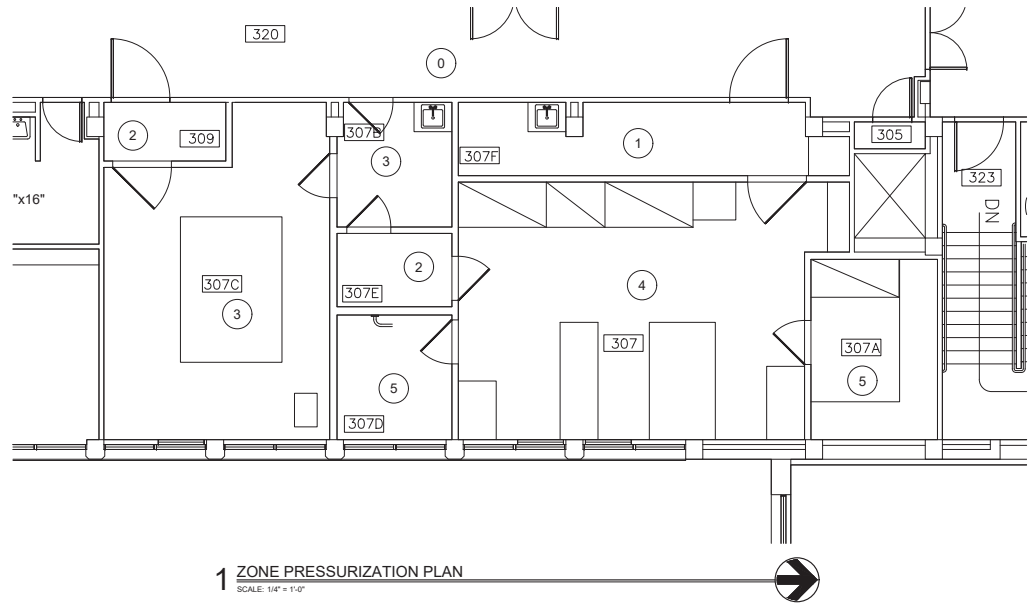
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Designer:	KJB
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Project No.:	5817-00

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**M-104**  
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KEYPLAN  
 4TH FLOOR PLAN

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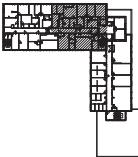


**LEGEND:**

0 LOWEST PRESSURE

5 HIGHEST PRESSURE

**1 ZONE PRESSURIZATION PLAN**  
SCALE: 1/4" = 1'-0"



KEYPLAN  
3RD FLOOR PLAN



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Sheet Title:

**ZONE PRESSURIZATION PLAN**

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Reviewer:	FRW
Project No.:	5817-00

Sheet No.  
**M-201**  
Scale: As Shown

AIR HANDLING UNIT SCHEDULE																																											
MARK	AREA SERVED	TYPE	AIR DELIVERY CAPACITY							2 CIRCUIT DX COOLING COIL							PREHEAT COIL							PREHEAT COIL ZONE #1							PREHEAT COIL ZONE #2							VOLTS/PHASE	PRE-FILTER	APPROX. OPER. WEIGHT (LBS)	MANUFACTURER & MODEL #	ACCESSORIES	REMARKS
			CFM	E.S.P. (IN W.C.)	WHEEL TYPE	CLASS	R.P.M.	MOTOR (HP)	E.A.T. (DB/WB (°F))	L.A.T. (DB/WB (°F))	TOTAL MBH	SENSIBLE MBH	MIN. AREA (SQ. FT.)	MAX. WTR P.D. (FT.)	MAX. AIR P.D. (IN.)	E.A.T. (DB (°F))	L.A.T. (DB (°F))	SENSIBLE MBH	PRESSURE (PSIG)	PPH	MIN. AREA (SQ. FT.)	MAX. AIR P.D. (IN.)	E.A.T. (DB (°F))	L.A.T. (DB (°F))	SENSIBLE MBH	PRESSURE (PSIG)	PPH	CFM	MAX. AIR P.D. (IN.)	E.A.T. (DB (°F))	L.A.T. (DB (°F))	SENSIBLE MBH	PRESSURE (PSIG)	PPH	CFM	MAX. AIR P.D. (IN.)	E.A.T. (DB (°F))						
AHU-1	LAB	OUTDOOR	7,500	1.00	PLENUM	II	1190	2B/10	102/69	55/054.2	333	-	30	5	0.65	10	55	303	7	160	30	0.2	55	90	74	7	75	2000	0.15	55	90	210	7	210	5500	0.15	208/3	2" MERV 8 / 4" MERV 13	15,500	MUTERS PV-W10-ALJA	PROVIDE ASB 550ACH VFD'S FOR SUPPLY FANS.	A.B.C.D.E	

**MANUFACTURERS:**  
MUTERS TISDALE

**GENERAL NOTES:**  
 A. RIG INSULATED DOUBLE WALL STEEL CABINET GALVANIZED EXTERIOR WITH A STAINLESS STEEL INTERIOR, FACTORY MOUNTED MARINE LIGHTS IN EACH MODULE, WITH RINGED ACCESS PANELS AND QUARTER TURN HANDLES.  
 B. SUPPLY FANS TO BE DIRECT DRIVE PLENUM FANS AND FACTORY MOUNTED VFD'S WITH INTEGRAL DISCONNECTS RATED FOR THE MOTOR HP AT PROJECT ELEVATION.  
 C. A PVC LINER SHALL BE INSTALLED AFTER THE CARBON FILTERS. CARBON FILTERS SHALL BE CAMFL CAMSORB CANISTERS THE HEPA FILTER HOUSING SHALL BE NON-METALLIC.  
 D. PROVIDE OUTSIDE AIR MEASURING STATION.  
 E. SEE DRAWING ON THIS SHEET FOR MODULES AND CONSTRUCTION INFORMATION.

GRILLE, REGISTER, DIFFUSER & LOUVER						
SYMBOL	USE	PATTERN	FINISH	MANUFACTURER'S & MODEL #	ACCESSORIES	REMARKS
Ⓐ	SUPPLY	4-WAY	WHITE	PRICE 50D	-	24X24 HARD CEILING
Ⓑ	EXHAUST	45 DEGREE LOUVER	WHITE	PRICE 91	-	SEE PLANS
Ⓒ	SUPPLY	DOUBLE DEFLECTION	WHITE	PRICE 520	-	12X12 HARD CEILING SUPPLY
Ⓔ	EXISTING					AIRFLOW INFORMATION PROVIDED FOR TEST AND BALANCE

**MANUFACTURERS:**  
GRILLE: KRUEGER, METALAIR, TITUS  
LOUVER: GREENHECK, L&D, RUSKIN

**GENERAL NOTES:**  
A.  
B.

EXHAUST FAN SCHEDULE																							
MARK	TYPE	SERVICE	FAN										MOTOR							MANUFACTURER'S & MODEL #	WEIGHT (LBS.)	ACCESSORIES	REMARKS
			CFM	ESP (IN. W.C.)	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	HP (WATT)	BHP	VOLTS/PHASE	GREENHECK F-212-10-6	GREENHECK B-8C3W-FRP-10	GREENHECK B-8C3W-FRP-10					
EF-1	UTILITY SET	NEPTUNE ROOM	1600	0.5	78	79	77	74	72	69	64	57	1/2	0.39	208/3		225						
EF-2	FRP UTILITY SET FAN	MAN LAB	3500	0.85	82	82	85	80	83	73	69	65	1-1/2	1.19	208/3		300						
EF-3	FRP UTILITY SET FAN	LEAD LAB	900	0.75	77	80	80	71	65	59	54	50	3/4	0.43	208/3		230						

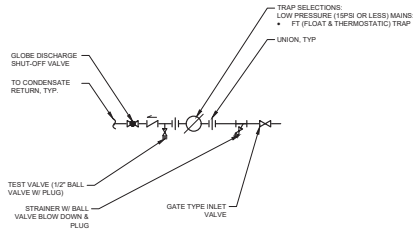
**MANUFACTURERS:**  
GREENHECK COOK TWIN CITY

**GENERAL NOTES:**  
A. MANUFACTURER TO PROVIDE  
B.

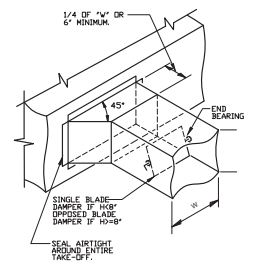
AIR HANDLER CONDENSING UNIT SCHEDULE														
MARK	MATCHED SYSTEM COMPONENT	NOMINAL COOLING CAPACITY (TONS)	COOLING CAPACITY (MBH)	EER (AHR)	EER (AHR)	AMBIENT TEMP. (DB° F)	ELECTRICAL			APPROX OPER. WEIGHT (LBS.)	MANUFACTURER MODEL #	ACCESSORIES	REMARKS	
							MCA	VOLTS/PH	MCOFP					
CU-1	AHU-1	30	274	12.3	14.6	105	140.5	208/3	175	2250	DAKIN APPLIED RC3030D	HAIR PROTECTION PHASE FAILURE, DISCONNECT SWITCH		

**MANUFACTURERS:**

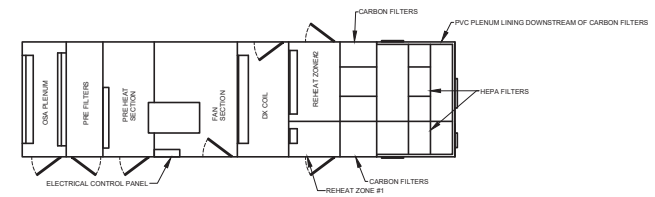
**GENERAL NOTES:**  
 A. PROVIDE MOUNTING RAILS WITH SPRING ISOLATION.  
 B. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED BY MANUFACTURER AND CODE.  
 C. PROVIDE ALL REQUIRED ACCESSORIES INCLUDING CONTROLS FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO SEQUENCE OF CONTROLS ACCESSORIES TO INCLUDE LOW AMBIENT CONTROL, FILTER DRIER, CRANK CASE HEATER AS REQUIRED BY MFG.  
 D. PROVIDE ALL SIZES OF REFRIGERANT PIPING BETWEEN ALL SYSTEM COMPONENTS ACCORDING TO MANUFACTURER SHOP DRAWINGS. PIPING SHALL NOT EXCEED MANUFACTURER RECOMMENDED LENGTH.  
 E. UNIT SELECTED AT PROJECT ELEVATION.



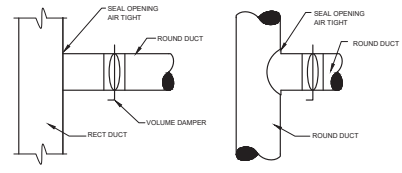
TYPICAL CONDENSATE TRAP PIPING



45° DUCT TAKE-OFF DIAGRAM  
NO SCALE



AIR HANDLING UNIT MODULES  
SCALE: 1/4" = 1'-0"



DUCT TAKE-OFFS DETAILS  
NO SCALE

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SEAL  
10% CDs FOR REVIEW

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NORTHROP HALL  
221 YALE BLVD. N.E.

Current Issue:  
50% Construction Documents

Issued:	
Progress Set:	06/19/2017

Sheet Title:  
MECHANICAL SCHEDULES AND DETAILS

Date:	06/19/2017
Designer:	KJB
Reviewer:	PKW
Project No.:	5817-00

Sheet No.:

M-501  
Scale: As Shown

**SEQUENCE OF OPERATION:**

AHU (TYPICAL OF 1)

RUN CONDITIONS - CONTINUOUS:  
THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN:

- A 75°F (ADJ.) COOLING SETPOINT.
- A 70°F (ADJ.) HEATING SETPOINT.

FREEZE PROTECTION:  
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

HIGH STATIC SHUTDOWN:  
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN HIGH STATIC SHUTDOWN SIGNAL.

SUPPLY AIR SMOKE DETECTION:  
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.

SUPPLY FAN:  
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

PREHEATING COIL STEAM VALVE:  
THE CONTROLLER SHALL MEASURE THE OUTSIDE AIR TEMPERATURE AND MODULATE THE PREHEATING COIL STEAM VALVE TO MAINTAIN A SETPOINT 4°F (ADJ.) LESS THAN THE COOLING SUPPLY AIR TEMPERATURE SETPOINT.

THE PREHEATING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS LESS THAN 55°F (ADJ.).
- AND THE SUPPLY FAN STATUS IS ON.

THE PREHEATING COIL STEAM VALVE SHALL OPEN FOR FREEZE PROTECTION WHENEVER:

- MIXED AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
- OR THE FREEZESTAT (IF PRESENT) IS ON.

COOLING SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:  
THE COOLING SUPPLY AIR TEMPERATURE SETPOINT SHALL BE

RESET BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:

- THE INITIAL COOLING SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 55°F (ADJ.).
- AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 53°F (ADJ.).
- AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 72°F (ADJ.).

COOLING STAGING:  
THE CONTROLLER SHALL MEASURE THE COOLING SUPPLY AIR TEMPERATURE AND STAGE THE DX CONDENSING UNIT TO MAINTAIN ITS COOLING SETPOINT.

THE COOLING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE SUPPLY FAN STATUS IS ON.

THE COOLING COIL VALVE SHALL OPEN TO 50% (ADJ.) WHENEVER THE FREEZESTAT (IF PRESENT) IS ON.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH COOLING SUPPLY AIR TEMP: IF THE COOLING SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) GREATER THAN SETPOINT

ZONE RE-HEAT SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:  
THE HEATING SUPPLY AIR TEMPERATURE SETPOINT SHALL BE

RESET BASED ON ZONE HEATING REQUIREMENTS AS FOLLOWS:

- THE INITIAL PRE-HEAT SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 80°F (ADJ.).
- AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 90°F (ADJ.).
- AS HEATING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 72°F (ADJ.).

ZONE RE-HEAT STEAM VALVE:  
THE CONTROLLER SHALL MEASURE THE HEATING SUPPLY AIR TEMPERATURE AND MODULATE THE HEATING COIL STEAM VALVE TO MAINTAIN ITS SETPOINT.

THE HEATING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE SUPPLY FAN STATUS IS ON.

THE HEATING COIL STEAM VALVE SHALL OPEN WHENEVER:

- HEATING SUPPLY AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).
- OR THE FREEZESTAT (IF PRESENT) IS ON.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH HEATING SUPPLY AIR TEMP: IF THE HEATING SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW HEATING SUPPLY AIR TEMP: IF THE HEATING SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.

OUTSIDE AIR DAMPERS:  
THE DAMPERS SHALL OPEN TO PROVIDE OUTSIDE AIR ANYTIME THE UNIT IS OPERATING AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE DAMPERS SHALL CLOSE 5SEC (ADJ.) AFTER THE SUPPLY FAN STOPS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- OUTSIDE AIR DAMPERS FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.
- OUTSIDE AIR DAMPERS IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

PREFILTER DIFFERENTIAL PRESSURE MONITOR:  
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE PREFILTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- PREFILTER CHANGE REQUIRED: PREFILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

CARBON FILTER DIFFERENTIAL PRESSURE MONITOR:  
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE CARBON FILTER.

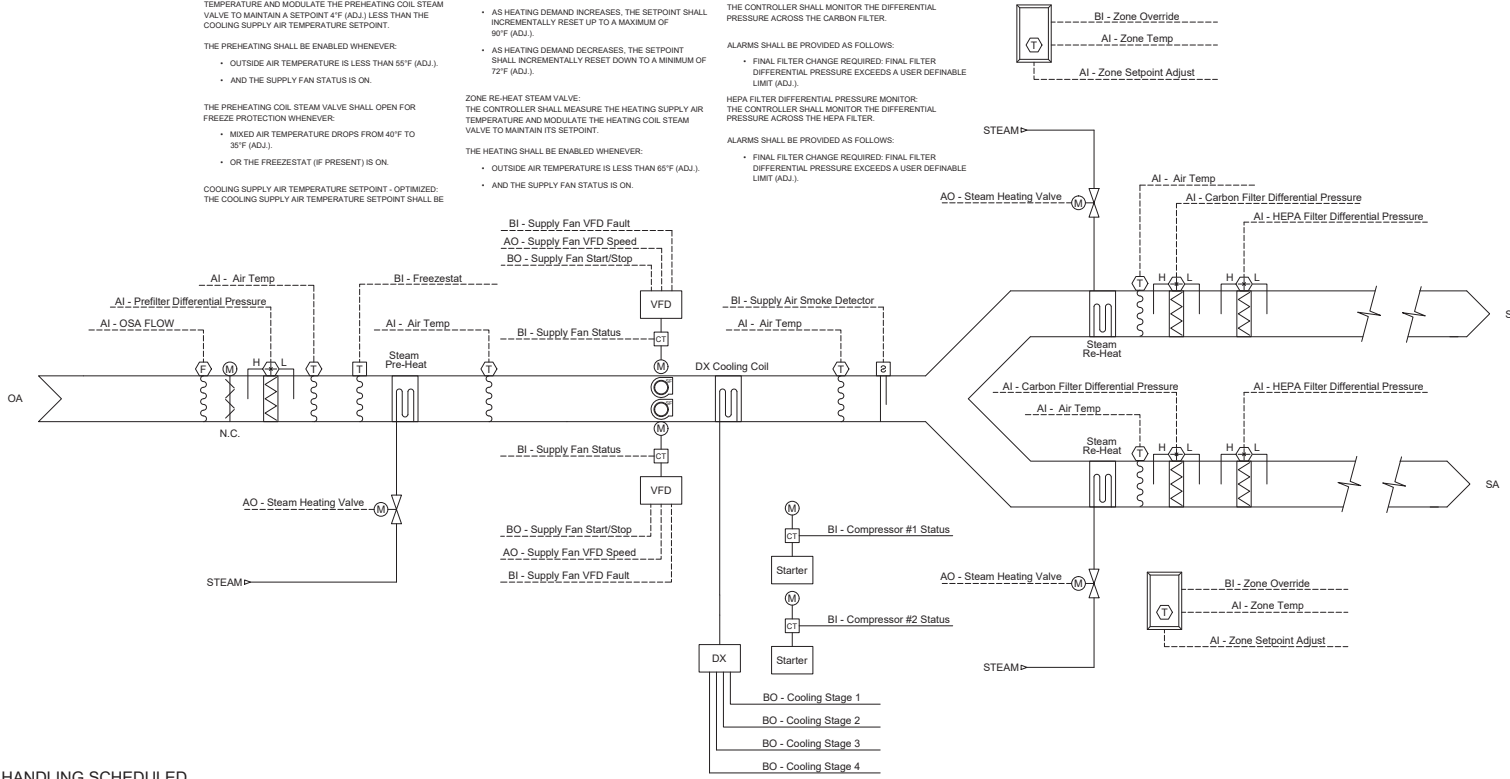
ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

HEPA FILTER DIFFERENTIAL PRESSURE MONITOR:  
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE HEPA FILTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FINAL FILTER CHANGE REQUIRED: FINAL FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).



**1 AIR HANDLING SCHEDULED**  
SCALE: NONE



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NORTHROP HALL  
221 YALE BLVD, N.E.

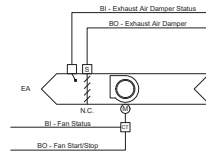
Current Issue:	50% Construction Documents
Issued:	
Progress Set:	04.19.2017

Sheet Title:	MECHANICAL CONTROLS
Date:	06.19.2017
Designer:	KJB
Reviewer:	FWW
Project No.:	9817-00

Sheet No:  
**M-701**  
Scale: As Shown

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### SEQUENCE OF OPERATION:

**RUN CONDITIONS - SCHEDULED:**  
THE FAN SHALL RUN ACCORDING TO A USER DEFINABLE SCHEDULE.

**FAN:**  
THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

**EXHAUST AIR DAMPER:**  
THE EXHAUST AIR DAMPER SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE EXHAUST AIR DAMPER SHALL CLOSE 30 SEC (ADJ.) AFTER THE FAN STOPS.

**ALARMS SHALL BE PROVIDED AS FOLLOWS:**

- DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.
- DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

**DAMPER STATUS:**  
THE FAN SHALL BE ENABLED AFTER THE DAMPER STATUS HAS PROVEN.

**ALARMS SHALL BE PROVIDED AS FOLLOWS:**

- DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.

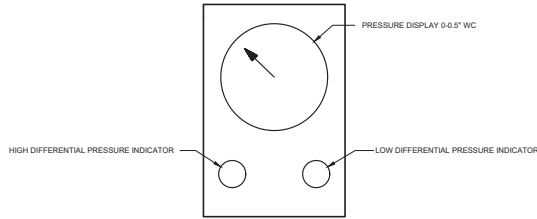
**FAN STATUS:**  
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

**ALARMS SHALL BE PROVIDED AS FOLLOWS:**

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS
- RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.)

## 1 EXHAUST FAN SCHEDULED

SCALE: NONE



PROVIDE GRAPHICS INDICATING THE DIFFERENTIAL PRESSURE BETWEEN THE FOLLOWING ROOMS AS INDICATED ON M201:

- 307A/307
- 307D/307
- 307E/307
- 307C/307B
- 307F/307
- 307G/30

ROOM DIFFERENTIAL SETPOINTS AND THRESHOLDS FOR ALARM SHALL BE PROVIDED BY THE OWNER AND SET BY THE TEST AND BALANCE CONTRACTOR.

## 1 DIFFERENTIAL PRESSURE GRAPHICS

SCALE: NONE



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NORTHROP HALL  
221 YALE BLVD. N.E.

Current Issue:	
50% Construction Documents	
Issued:	
Progress Set:	06/19/2017

Sheet Title:	
MECHANICAL CONTROLS	
Date:	06/19/2017
Designer:	KJB
Reviewer:	FWW
Project No.:	0817-00

Sheet No.:	
M-702	
Scale: As Shown	



**REQUEST FOR CAPITAL PROJECT CONSTRUCTION APPROVAL for  
TAOS HARWOOD MUSEUM: HVAC IMPROVEMENTS  
UNIVERSITY OF NEW MEXICO  
March 8, 2022**

**REQUESTED ACTION:**

In accordance with Section 7.12 of the Board of Regents Policy Manual and as required by the New Mexico Higher Education Department and New Mexico State Board of Finance, project approval is requested for **Taos Harwood Museum: HVAC Improvements**

**PROJECT DESCRIPTION:**

Replacement of RTU's identified as 3 and 4 are required and will include new electrical power feed from the existing panel. This requires new conduit, new wire and new breakers within the electrical panel. In addition, there may be structural modifications, reinforcement of the roof deck, due to the new unit size and increased weight. Mechanical controls integration into the existing system will be needed in order to operate the new units to include including programming and commissioning of the units prior to start up.

**PROJECT RATIONALE:**

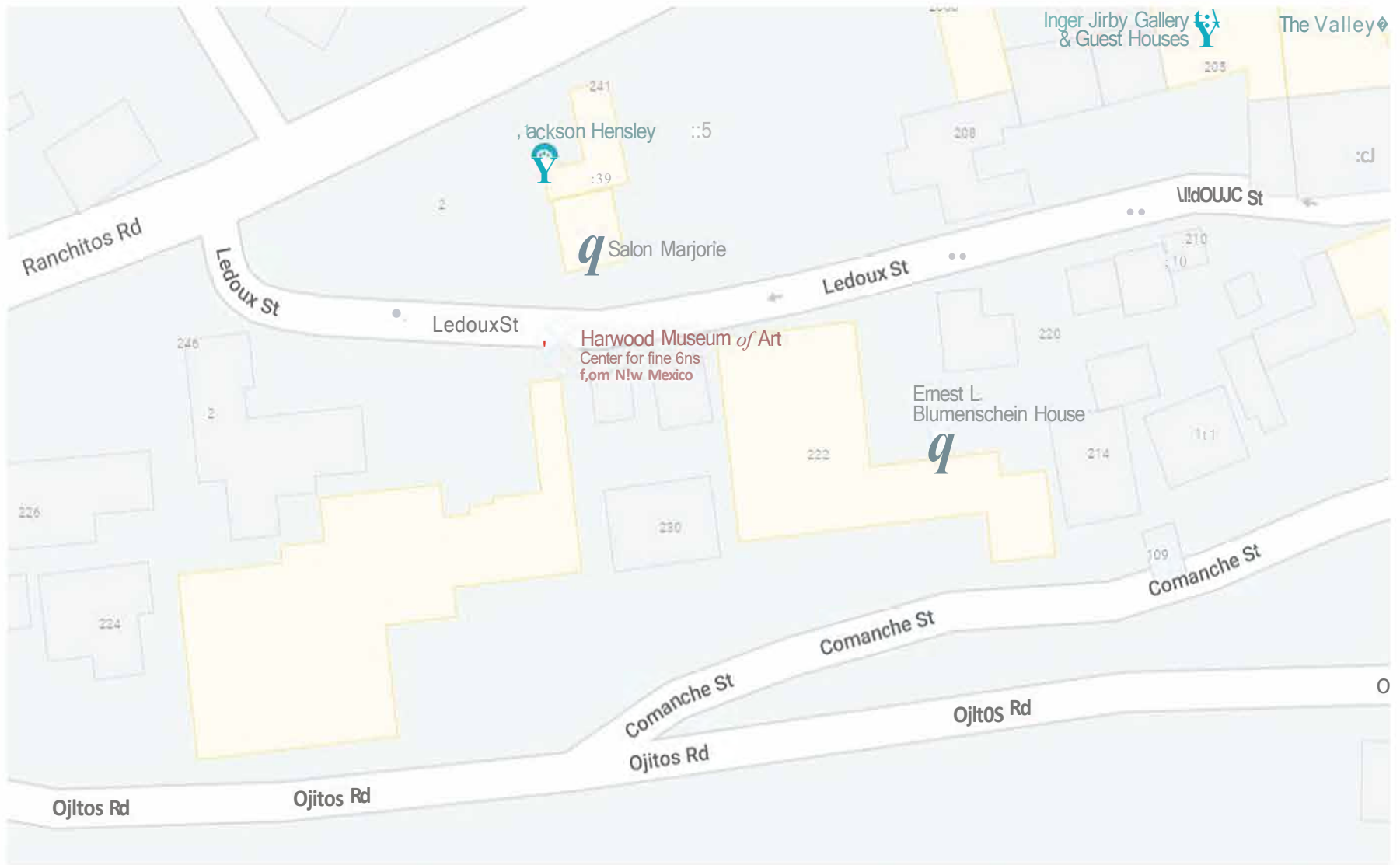
The Harwood Museum has 4 Roof Top Units (RTUs) that are approximately 23 years old and need to be replaced. These systems are not up-to-date in their monitoring capability, and not accessible for remote control. RTU-3 and RTU-4 are currently failing. RTU-3 is leaking and mostly non-functioning and RTU-4 is only partially working. Both units are required to maintain proper temperature and humidity requirements for the art exhibits.

If the project does not receive approval, the museum, the collections are at risk and the facility's American Association of Museums accreditation is jeopardized due to not being able to meet the indoor air requirements for temperature and humidity.

**FUNDING:**

The total estimated Project Budget is \$350,000:

- \$100,000 is funded from Legislative Capital Outlay FY22 Funding Granted
- \$150,000 is funded from FY22 FIN Allocation
- \$50,000 is funded from Harwood Museum Unrestricted Reserves from Individual Gifts
- \$50,000 is funded from FY22 Emergency Reserves



Inger Jirby Gallery & Guest Houses

The Valley

Jackson Hensley



Salon Marjorie

Harwood Museum of Art  
Center for fine arts from N/w Mexico

Ernest L. Blumenschein House



Ranchitos Rd

Ledoux St

Ledoux St

Ledoux St

Ledoux St

Comanche St

Comanche St

Comanche St

Ojitos Rd

Ojitos Rd

Ojitos Rd

Ojitos Rd

O

**REQUEST FOR CAPITAL PROJECT CONSTRUCTION APPROVAL for  
BIOMEDICAL RESEARCH FACILITY (BRF) LABORATORY AIRFLOW SAFETY  
MODIFICATIONS TO BSL-2 LABS 120-127  
UNIVERSITY OF NEW MEXICO  
March 08, 2022 REQUESTED ACTION:**

In accordance with Section 7.12 of the Board of Regents Policy Manual and as required by the New Mexico Higher Education Department and New Mexico State Board of Finance, project approval is requested for **Laboratory Airflow Safety Modifications to BSL-2 Labs 120-127 at the Biomedical Research Facility (BRF)**, on the Albuquerque North Campus.

**PROJECT DESCRIPTION:**

The Biomedical Research Facility (building 253) is 108,465 gsf and is composed primarily of research laboratories, with some administrative office spaces. Sealing of the Bio-Safety Level 2 (BSL-2) laboratories 120-127 and installing laboratory airflow controls will provide a safe Indoor Air Quality (IAQ) environment for research done in those labs. The remaining labs not covered in this project will be addressed in future projects.

**PROJECT RATIONALE:**

The Biomedical Research Facility was constructed in 1982 and comprises five levels: a basement, a ground level, and three upper floors containing primarily Bio-Safety Level 2 (BSL-2) laboratories for biomedical research. It was recently discovered that the laboratory levels have an open airflow path between the laboratories and other spaces on the same floor level (laboratories, corridors, offices, etc.). To isolate the laboratory processes and provide secondary containment, the perimeter walls of each lab must be continued above the ceiling up to the floor or roof above, and all penetrations through the walls must be sealed.

Once 120-127 laboratories have been properly sealed, standard laboratory airflow controls can be installed, including airflow valves and controls for primary containments (fume hoods, biosafety cabinets, etc.), room supply air and room general exhaust.

The combination of sealing each lab and installing airflow controls will provide a safe indoor air quality environment for the research performed in 120-127 labs. Additionally, isolating the laboratories will allow the building makeup air and exhaust systems to operate at a lower energy level, without struggling to maintain differential pressures between unsealed spaces.

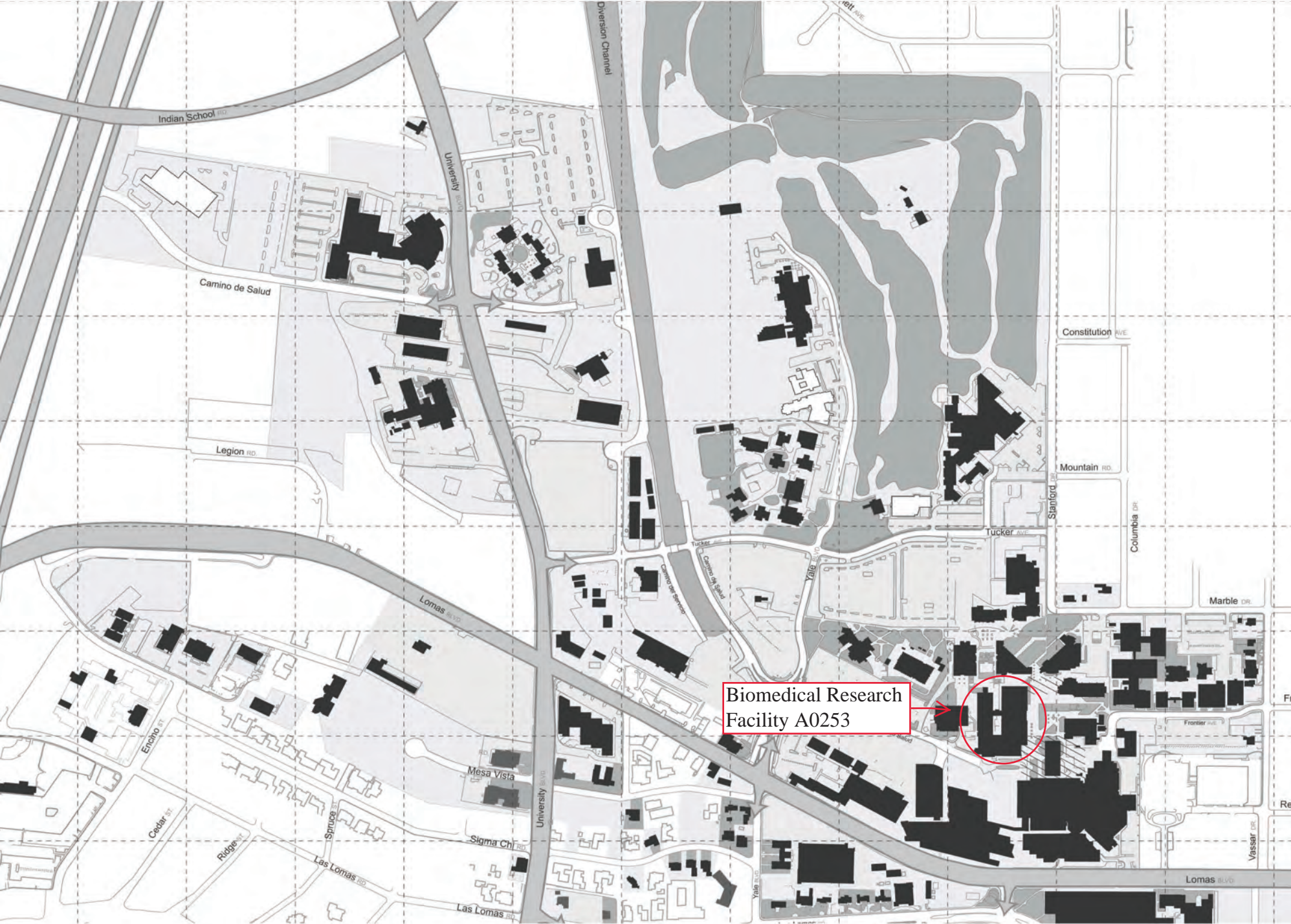
If this project is not approved, the 120-127 laboratories would remain in their present state with the potential of exposure for building occupants to biological materials that would otherwise be contained within the laboratory and exhausted from the building. Building makeup air and exhaust systems will continue to operate at a higher-than-necessary energy level to maintain differential pressures.

**FUNDING:** The total estimated Project Budget is \$565,000

- \$565,000 is funded from FY22 Sustainability Surcharge



# The University of New Mexico - Albuquerque: North Campus



Biomedical Research  
Facility A0253



# BIOMEDICAL RESEARCH FACILITY

UNIVERSITY OF NEW MEXICO SCHOOL OF MEDICINE

915 Camino De Salud NE | Building 253 - #A0253 | Albuquerque, NM 87131-3500

## FIRST FLOOR - BSL-2 LAB & INTERLAB HVAC EXHAUST & SUPPLY AIR SYSTEMS LAB 120, LAB 121, LAB 124, LAB 125 & LAB 127



FACILITIES MANAGEMENT ENGINEERING & ENERGY SERVICES  
Albuquerque, NM 87131-3500 | Phone: (505) 277-1126 Fax: (505) 277-3561

NOVEMBER 5, 2021  
INDEX OF DRAWINGS

LAB 120, LAB 121, LAB 124, LAB 125 & LAB 127

PROJECT SITE  
LOCATION  
BUILDING 253



BSL-2 LAB AND INTERLAB 120, 121, 124, 125 & 127

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

### GENERAL

SEQUENCE	SHEET NUMBER	LEVEL	SHEET TITLE
01	G-001		COVER SHEET

### ARCHITECTURAL

SEQUENCE	SHEET NUMBER	LEVEL	SHEET TITLE
02	A-101	1ST FLOOR	1ST FLOOR PARTIAL ARCHITECTURAL PLAN
03	A-201	1ST FLOOR	CEILING PLENUM - WALL PENETRATION PLAN
04	A-301	1ST FLOOR	INTERIOR PARTITION TYPE, FINISH SCHEDULE AND MISCELLANEOUS PHOTOS

### MECHANICAL

SEQUENCE	SHEET NUMBER	LEVEL	SHEET TITLE
05	MD-101	1ST FLOOR	MECHANICAL DEMOLITION PLAN
06	M-101	1ST FLOOR	MECHANICAL NEW WORK PLAN
07	M-501	-	TYPICAL PENETRATION DETAILS
08	MI-601	-	B.A.S. BASED LABORATORY AIRFLOW SAFETY STANDARD CONTROLS DIAGRAM, LABORATORY HOOD EXHAUST - LAB ROOMS 121 AND 125
09	MI-602	-	SEQUENCE OF OPERATION AND CONTROLS EQUIPMENT SCHEDULE

B.A.S. -BASED LAB RECIRCULATION  
HOOD AIRFLOW CONTROLS DIAGRAM



OVE ENGINEERING | 1409 ORTIZ DRIVE SE | ALBUQUERQUE, NM 87108 | (505) 338-7992

G-001



### Keyed Notes

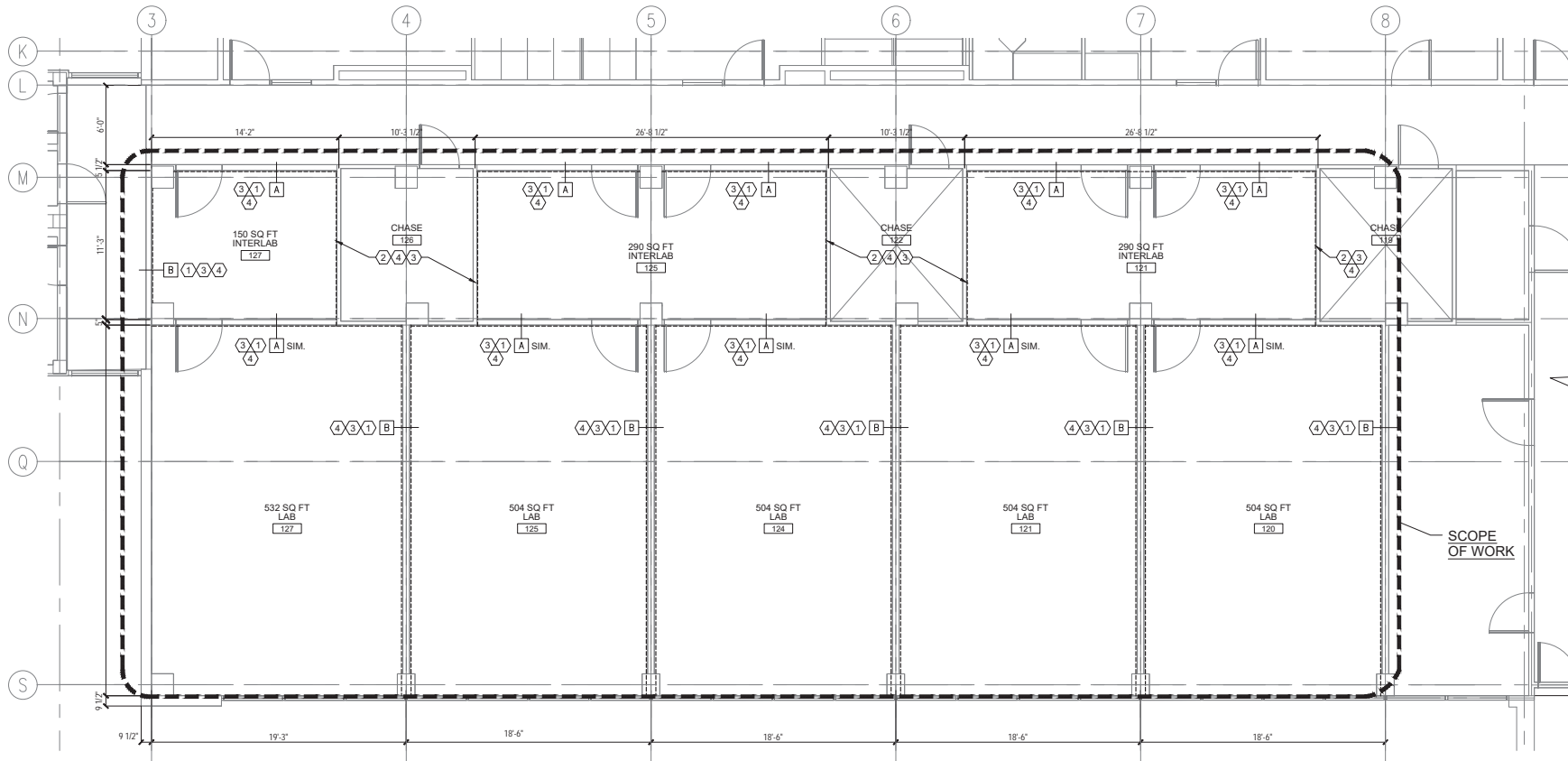
1. EXTEND INTERIOR PARTITION WALL TO BOTTOM OF STRUCTURAL DECK.
2. FIELD VERIFY MECHANICAL CHASE WALL EXTENDS TO BOTTOM OF STRUCTURAL DECK ALL AROUND. REFER TO INTERIOR PARTITION ASSEMBLY, TYPE B.
3. COORDINATE AND REFER TO SHEET A-201, CEILING PLENUM AND PENETRATION PLAN FOR ADDITIONAL INFORMATION. SEE SHEET A-301 INTERIOR PARTITION ASSEMBLY, TYPE A & B FOR NEW WALL EXTENSION DETAIL.
4. SEAL BOTH SIDES OF ALL WALL PENETRATIONS WITH FIRE CAULK , TYPICAL. (SHEET ROCK SHALL BE CONTINUOUS AROUND EACH SPACE).

### Symbol Legend

- A WALL TYPE
- POINT OF CONNECTION

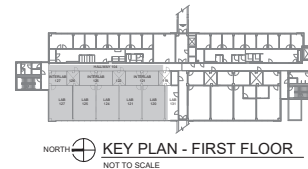
### General Notes

- CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE. IF ANY DISCREPANCIES ARE FOUND, THE ENGINEER OF RECORD SHALL BE NOTIFIED.
- PROTECT FROM DAMAGING EXISTING ELECTRICAL, MECHANICAL EQUIPMENT, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEMS. IF DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS TO PRE-CONSTRUCTION CONDITIONS.
- THE CONTRACTOR SHALL PATCH ALL WALLS IN AREAS WHERE MISCELLANEOUS FIXTURES, CONDUIT, AND DEVICES HAVE BEEN REMOVED.
- PATCH/REPAIR/TEXTURE ALL WALLS FOR CONSISTENT FINISH FREE OF DEFECTS & UNEVEN SURFACES.
- CONTRACTOR SHALL CONFIRM ADEQUATE BLOCKING SUPPORT FOR ALL WALL-HUNG ITEMS. FOR WALL-HUNG ITEMS IN CONCRETE WALLS, CONTRACTOR SHALL CONFIRM REQUIRED ANCHORING WITH EQUIPMENT MANUFACTURER.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 EDITION OF THE IBC, INTERNATIONAL BUILDING CODE AND ALL OTHER GOVERNING AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS REQUIRED BY LOCAL AUTHORITIES.
- ALL TESTING AND INSPECTIONS SHALL BE COORDINATED AND SCHEDULED BY THE CONTRACTOR TO FIT WITHIN THE WORKFLOW OF THE PROJECT.
- CONTRACTOR SHALL COORDINATE SCHEDULE DATE, SITE ACCESS WITH THE USER PRIOR TO COMMENCING WORK.
- ONLY MAJOR ITEMS OF DEMOLITION ARE SHOWN ON THE DEMOLITION DRAWINGS. THERE MAY BE SPECIFIC AND SMALL ITEMS OF DEMOLITION AND REPAIR THAT WILL BE NECESSARY THROUGHOUT THE COURSE OF THE WORK WHICH IS APPARENT BY A COMPLETE AND THOROUGH REVIEW OF EXISTING CONDITIONS AND ALL OF THE CONSTRUCTION DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL DEMOLITION OPERATIONS REQUIRED FOR THE PROJECT.
- EXISTING CONSTRUCTION SHALL BE MODIFIED AS NEEDED TO ACCOMMODATE NEW DEVICES AND CONDUIT ROUTES, SUCH MODIFICATIONS WILL BE REPAIRED AND FINISHED TO MATCH ADJACENT.
- ALL SYMBOLS AND ABBREVIATIONS USED ON DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SAME, OR THEIR EXACT MEANING, THE ENGINEER OF RECORD SHALL BE NOTIFIED FOR CLARIFICATION.
- CONTRACTOR SHALL THOROUGHLY CLEAN ALL CEILING SPACES IN THE PROJECT AREA TO REMOVE ALL DUST DEPOSITS AND DEBRIS.



1ST FLOOR PARTIAL ARCHITECTURAL PLAN - BSL-2 LAB AND INTERLAB 120, 121, 124, 125 & 127

SCALE: 1/4" = 1'-0"



DESIGNED	RAQ
DRAWN	NM
REVISION #	-
DATE	10-7-2021



### Symbol Legend

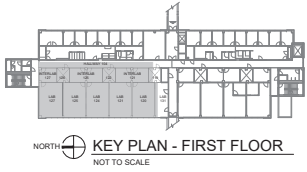
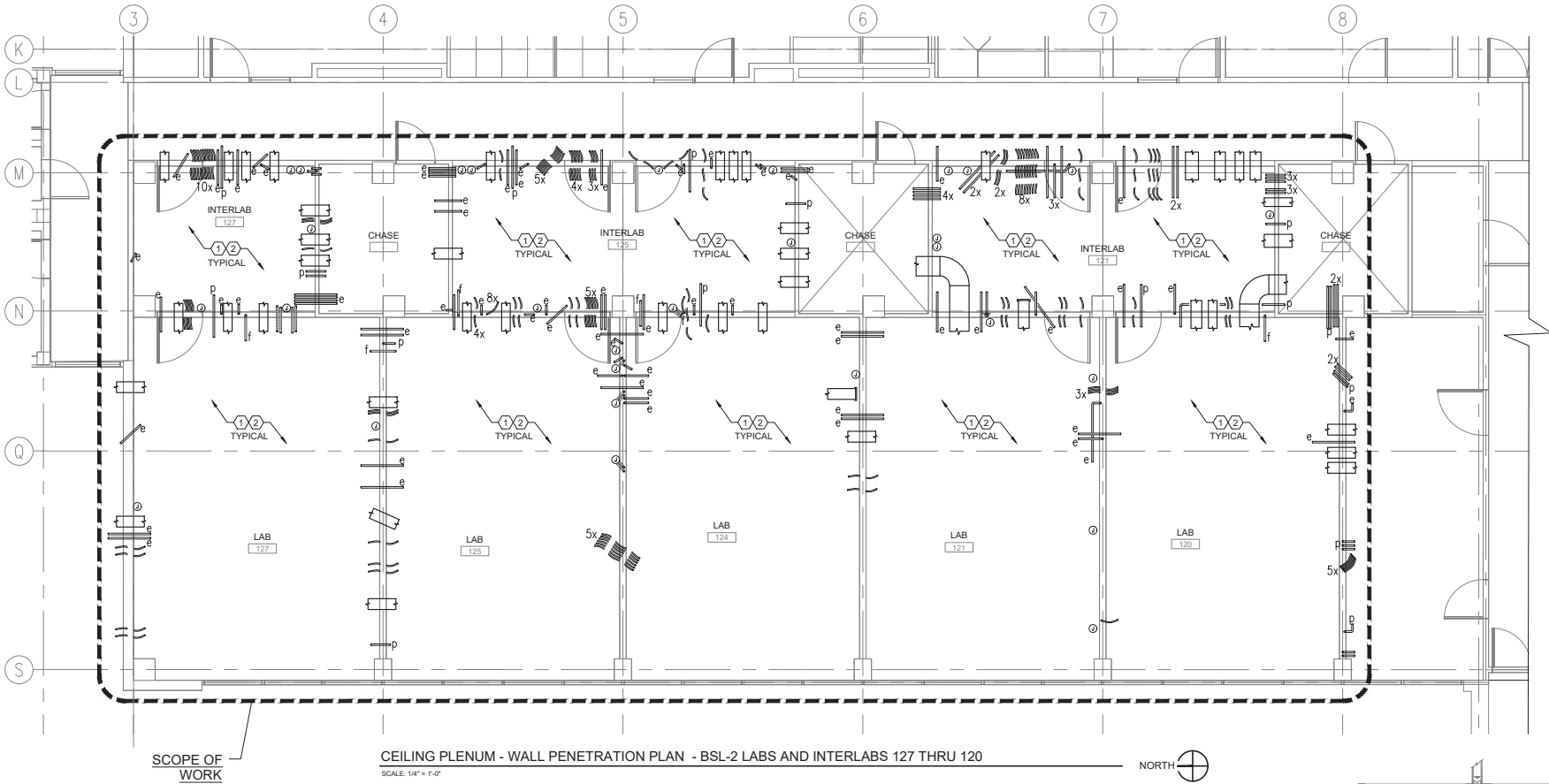
- CONDUIT
- LOOSE WIRE(S)
- DUCT
- CAST IRON / PIPE
- FLEX CONDUIT
- JUNCTION BOX

### General Notes

- A. PLANS ARE GRAPHIC REPRESENTATIONS. CONTACT BUILDING MANAGEMENT WITH ANY QUESTIONS REGARDING INTENT. ALL AREAS TO BE REMODELED REQUIRE FIELD VERIFICATION PRIOR TO PROJECT START.
- B. CONTRACTOR TO COORDINATE ALL UTILITY SHUT DOWNS AND TIE-INS WITH THE OWNER.
- C. LABORATORY SHALL BE ADEQUATELY SEALED TO MAINTAIN DIFFERENTIAL PRESSURE BETWEEN LABORATORY AND SURROUNDING SPACES.

### Keyed Notes

1. REFER TO SYMBOL LEGEND FOR GENERAL DESCRIPTION OF PENETRATION TYPE. DUCT SIZES ARE NOT SHOWN ON PLAN. REFER TO SHEET A-301 WHERE MISCELLANEOUS PHOTOS ARE PROVIDED.
2. WALL PENETRATIONS SHOWN ON PLAN ARE CLOSE REPRESENTATION OF TYPE AND NUMBER OF DUCTS, CONDUITS, WIRES AND LOOSE COMM LINES THAT ROUTE BETWEEN ANTE-ROOM / INTERLAB, LABORATORY AND HALLWAY 104.



**BIOMEDICAL RESEARCH FACILITY**  
 UNIVERSITY OF NEW MEXICO, SCHOOL OF MEDICINE  
 915 Camino De Salud NE | Building 253 - RA0253 | Albuquerque, NM 87131-3500

**UNM NEW MEXICO**  
 FACILITIES MANAGEMENT ENGINEERING & ENERGY SERVICES

**FIRST FLOOR - BSL-2 LAB & INTERLAB  
 CEILING PLENUM - WALL PENETRATION PLAN**

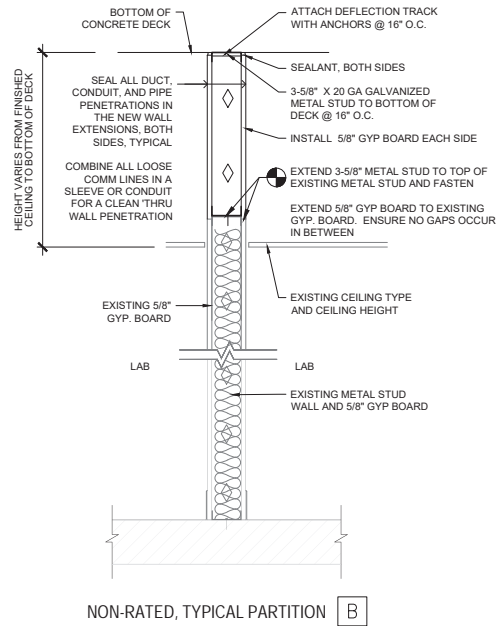
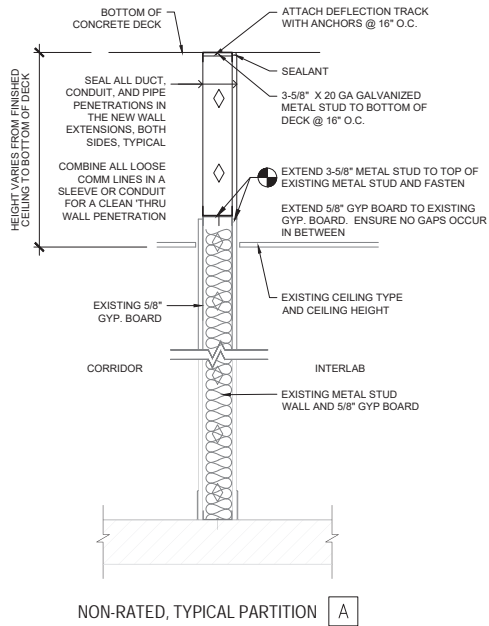
**HVAC EXHAUST & SUPPLY AIR SYSTEMS**  
 LAB 120, LAB 121, LAB 124, LAB 125 & LAB 127

DESIGNED	RAQ
DRAWN	NM
REVISION #	-
DATE	10-7-2021



FILE: B #253\_21-035

**A-201**



MATERIAL & FINISH SCHEDULE			
ROOM	WALL TYPE	CEILING	REMARK
INTERLAB 121	A, B	MATCH EXISTING	GENERAL WALL PAINT; SEMI-GLOSS
LAB 120	B	MATCH EXISTING	GENERAL WALL PAINT; SEMI-GLOSS
LAB 121	B	MATCH EXISTING	GENERAL WALL PAINT; SEMI-GLOSS
INTERLAB 125	A, B	MATCH EXISTING	GENERAL WALL PAINT; SEMI-GLOSS
LAB 124	B	MATCH EXISTING	GENERAL WALL PAINT; SEMI-GLOSS
LAB 125	B	MATCH EXISTING	GENERAL WALL PAINT; SEMI-GLOSS
INTERLAB 127	A, B	MATCH EXISTING	GENERAL WALL PAINT; SEMI-GLOSS
LAB 127	B	MATCH EXISTING	GENERAL WALL PAINT; SEMI-GLOSS

- A - NON-RATED WALL B - NON-RATED WALL
- PAINT MANUFACTURER: DUNN EDWARDS
- PAINT COLOR TO MATCH EXISTING
- BLEND AND MATCH EXISTING WALL / TEXTURE FINISH



**1** WALL BETWEEN INTERLAB 127 AND HALLWAY 104  
NOT TO SCALE



**2** WALL BETWEEN INTERLAB 125 AND LAB 125  
NOT TO SCALE



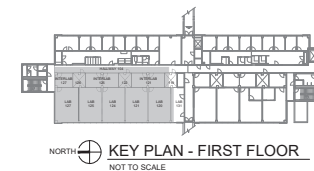
**3** WALL BETWEEN LAB 120 AND INTERLAB 121  
NOT TO SCALE



**4** WALL BETWEEN LAB 127 AND LAB 125  
NOT TO SCALE



**5** WALL BETWEEN LAB 120 AND LAB 130  
NOT TO SCALE



DESIGNED	RAQ
DRAWN	NM
REVISION	-
REVISION #	-
DATE	10-7-2021



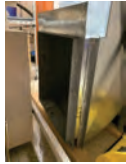




EXHIBIT A



EXHIBIT B

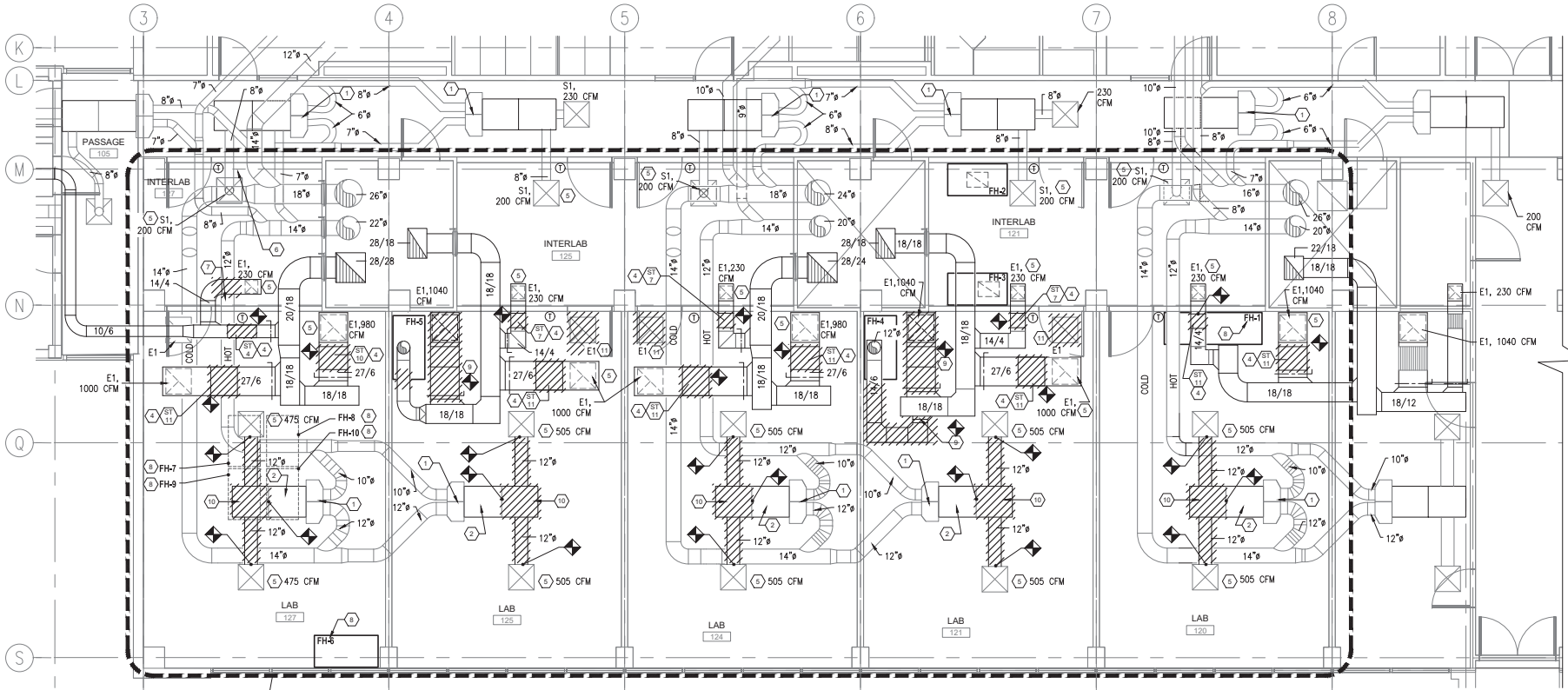


### Keyed Notes

- EXISTING CONSTANT VOLUME, DOUBLE DUCT TERMINAL UNIT TO REMAIN.
- EXISTING MIXING BOX TO REMAIN.
- DEMO EXISTING SUPPLY DUCT TO THE LIMITS SHOWN. MAINTAIN REMAINING FOR REUSE WITH NEW SUPPLY AIR VALVES. REFER TO SHEET M-101, MECHANICAL NEW WORK PLAN.
- REMOVE EXISTING SOUND TRAP. MAINTAIN DISTRIBUTION FOR REUSE.
- EXISTING SA / EA DIFFUSER TO REMAIN. TYPICAL EXISTING GENERAL EXHAUST DUCT DROPS DOWN TO FINISH FLOOR SHALL BE DEMO'D BACK TO MAIN AND CAPPED. REFER TO EXHIBIT 'A', THIS SHEET.
- EXISTING GENERAL EXHAUST DUCT DROPS DOWN TO FINISH FLOOR SHALL BE DEMO'D BACK TO MAIN AND CAPPED. REFER TO EXHIBIT 'B', THIS SHEET.
- EXISTING LAB RECIRCULATING FUME HOODS TO REMAIN.
- DEMO EXISTING EXHAUST DUCT TO LIMITS SHOWN AND CAP. LEAKTIGHT. REFER TO SHEET M-101 MECHANICAL NEW WORK PLAN.
- DEMO EXISTING DUCTWORK TO LIMITS SHOW. MAINTAIN MIXING BOX AND DIFFUSERS FOR RE-USE.
- REMOVE EXISTING DIFFUSER / GRILLE AND REPLACE WITH ACOUSTICAL CEILING TILE (SIMILAR TO EXISTING).

### General Notes

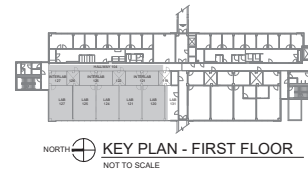
- PLANS ARE GRAPHIC REPRESENTATIONS. CONTACT BUILDING MANAGEMENT WITH ANY QUESTIONS REGARDING VERIFICATION. ALL AREAS TO BE REMODELED REQUIRE FIELD VERIFICATION PRIOR TO PROJECT START.
- CONTRACTOR TO COORDINATE ALL UTILITY SHUT DOWNS AND TIE-INS WITH THE OWNER.



SCOPE OF WORK

FIRST FLOOR MECHANICAL PLAN - DEMOLITION | BSL-2 LAB AND INTERLAB 120, 121, 124, 125 & 127

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



KEY PLAN - FIRST FLOOR  
NOT TO SCALE

BIOMEDICAL RESEARCH FACILITY  
UNIVERSITY OF NEW MEXICO SCHOOL OF MEDICINE  
915 Camino De Salud NE | Building 253 - RA0253 | Albuquerque, NM 87131-3500



FIRST FLOOR - BSL-2 LAB & INTERLAB  
MECHANICAL PLAN - DEMOLITION

HVAC EXHAUST & SUPPLY AIR SYSTEMS  
LAB 120, LAB 121, LAB 124, LAB 125 & LAB 127

DESIGNED	RAQ
DRAWN	NM
REVISION #	-
DATE	10-7-2021



FILE: B #253\_21-035

MD-101

5 of 9 SHEETS

New UNM BRF Lab Air Flows (Exh is Used for AC/Hr)												
Lab/Space Name	Cold Deck Supply (CFM)	Hot Deck Supply (CFM)	C/h Total Supply (Max CFM)	C/h Total Supply (Min CFM)	Return (CFM)	Exhaust (Max CFM)	Exhaust (Min CFM)	Delta (CFM)	Lab Area (ft <sup>2</sup> )	Lab Vol (ft <sup>3</sup> )	Max Air Changes/Hr	Min Air Changes/Hr
Lab 126A	930	730	900	450	0	1300	500	200	518	1667	14.16	6.44
Lab 126B	930	930	150	300	0	250	150	100	150	1501	10.68	6.41
Lab 127	930	320	350	300	0	250	150	100	350	1458	10.68	6.41
Lab 127A	930	320	900	450	0	1200	500	200	338	1042	14.16	6.44
Lab 128	930	740	900	450	0	1200	500	200	338	1042	14.16	6.44
Lab 129	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129A	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129B	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129C	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129D	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129E	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129F	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129G	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129H	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129I	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129J	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129K	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129L	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129M	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129N	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129O	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129P	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129Q	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129R	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129S	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129T	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129U	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129V	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129W	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129X	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129Y	440	420	150	300	0	250	150	100	336	1404	10.68	6.41
Lab 129Z	440	420	150	300	0	250	150	100	336	1404	10.68	6.41

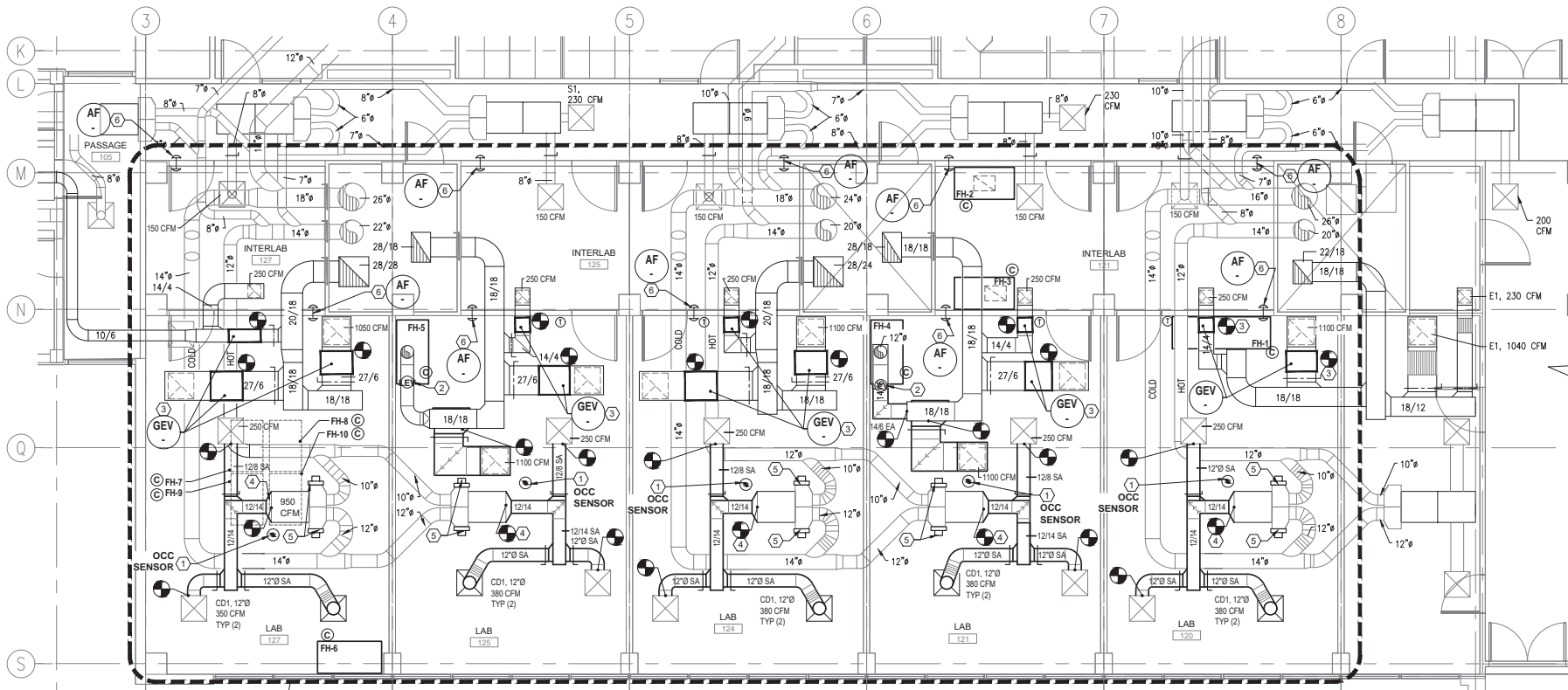
UNM BRF LAB AND INTERLAB AIR FLOW SCHEDULE

### General Notes

- A. PLANS ARE GRAPHIC REPRESENTATIONS. CONTACT FACILITIES WITH QUESTIONS REGARDING SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO PERFORM FIELD VERIFICATION TO ALL AREAS PRIOR TO PROJECT START.
- B. CONTRACTOR TO COORDINATE ALL UTILITY SHUT DOWNS AND TIE-INS WITH THE OWNER.

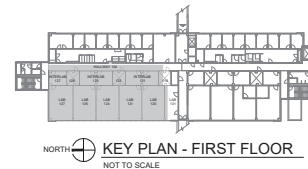
### Keyed Notes

1. OCCUPANCY SENSOR (ECCO FLEX OR LEUTRON) WITH ASSOCIATED RELAY TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
2. INSTALL AND CONNECT NEW LEV. GENERAL EXHAUST VALVE. ADJUST AIR VELOCITY AS INDICATED ON SCHEDULE. THIS SHEET. PROVIDE ACCESSORIES CONTROL VALVE ACTUATOR AND AIRFLOW TRANSMITTER. REFER TO CONTROL EQUIPMENT SCHEDULE AND CONTROLS DIAGRAM. SHEET MI-802.
3. INSTALL AND CONNECT NEW GEV. GENERAL EXHAUST VALVE TO MODULATE ROOM PRESSURIZATION AS INDICATED ON SCHEDULE. THIS SHEET. PROVIDE ACCESSORIES CONTROL VALVE ACTUATOR AND AIRFLOW TRANSMITTER.
4. REFER TO CONTROL EQUIPMENT SCHEDULE AND CONTROLS DIAGRAM. SHEET MI-802.
5. CONNECT NEW SUPPLY AIR PLENUM TO EXISTING MIXING BOX. PROVIDE TRANSITIONS AS REQUIRED FOR A SEALTIGHT CONNECTION.
6. NEW DDG, FULLY MODULATING ACTUATOR. PROVIDE BLEED AIRFLOW SENSOR; EBTRON MODEL II EF-X2000-B WITH DISPLAY AND WALL KIT. INSTALL APPROXIMATELY 6"-10" BELOW FINISHED CEILING. FIELD COORDINATE EXISTING CONDITIONS PRIOR TO INSTALL.



1ST FLOOR MECHANICAL PLAN - NEW WORK | BSL-2 LAB AND INTERLAB 120, 121, 124, 125 & 127  
SCALE: 1/4" = 1'-0"

SCOPE OF WORK



KEY PLAN - FIRST FLOOR  
NOT TO SCALE

BIOMEDICAL RESEARCH FACILITY  
UNIVERSITY OF NEW MEXICO SCHOOL OF MEDICINE  
915 Camino De Salud NE | Building 253 - #6253 | Albuquerque, NM 87131-3500



FACILITIES MANAGEMENT ENGINEERING & ENERGY SERVICES

FIRST FLOOR - BSL-2 LAB & INTERLAB  
MECHANICAL NEW WORK PLAN

HVAC EXHAUST & SUPPLY AIR SYSTEMS  
LAB 120, LAB 121, LAB 124, LAB 125 & LAB 127

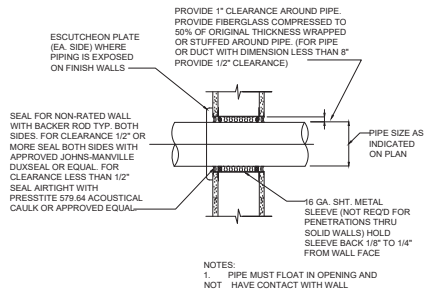
DESIGNED	RAQ
DRAWN	NM
REVISION #	-
DATE	10-7-2021



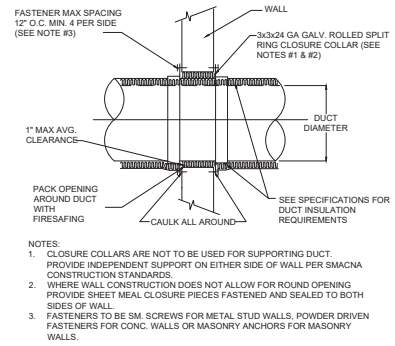
FILE: B #253\_21-035

M-101

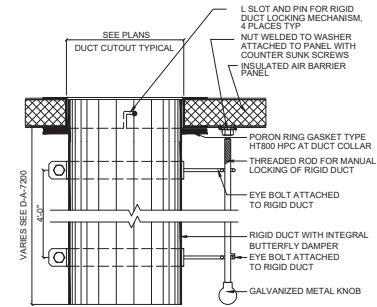
6 of 9 SHEETS



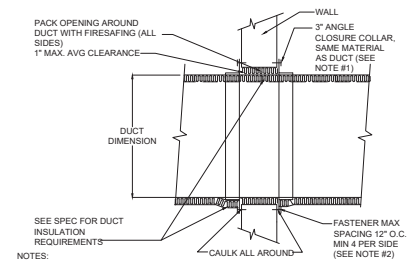
**C2** PIPE THRU GWB WALL PENETRATION  
NOT TO SCALE



**C3** ROUND DUCT WALL PENETRATION  
NOT TO SCALE



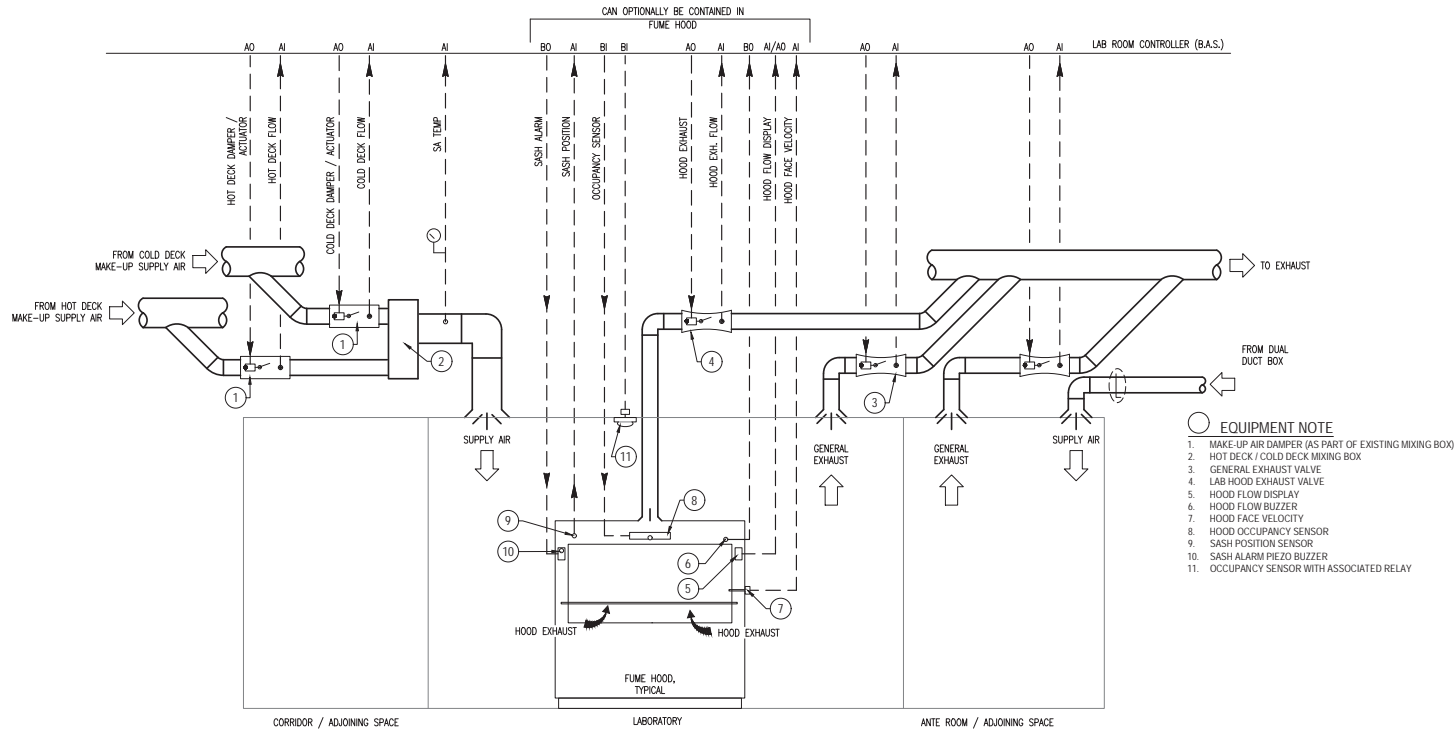
**B3** RIGID DUCT PENETRATION  
NOT TO SCALE



**A3** RECTANGULAR DUCT WALL PENETRATION  
NOT TO SCALE

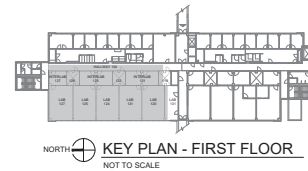
NO. SUBMITTALS	02-00
NO. REVISIONS REQUIRED	0-02
NO. REVISIONS MADE	0-00
NO. REVISIONS	0-00
DESIGNED	RAQ
DRAWN	NM
REVISED	-
REVISION #	-
DATE	10-7-2021





- EQUIPMENT NOTE**
1. MAKE-UP AIR DAMPER (AS PART OF EXISTING MIXING BOX)
  2. HOT DECK / COLD DECK MIXING BOX
  3. GENERAL EXHAUST VALVE
  4. LAB HOOD EXHAUST VALVE
  5. HOOD FLOW DISPLAY
  6. HOOD FLOW BUZZER
  7. HOOD FACE VELOCITY
  8. HOOD OCCUPANCY SENSOR
  9. SASH POSITION SENSOR
  10. SASH ALARM PIEZO BUZZER
  11. OCCUPANCY SENSOR WITH ASSOCIATED RELAY

**1** B.A.S. BASED LABORATORY AIRFLOW SAFETY STANDARD CONTROLS DIAGRAM  
LABORATORY HOOD EXHAUST - LAB ROOMS 121 AND 125



**FIRST FLOOR - BSL-2 LAB & INTERLAB  
B.A.S. - BASED LAB HOOD EXHAUST  
AIRFLOW CONTROLS DIAGRAM  
HVAC EXHAUST & SUPPLY AIR SYSTEMS**  
LAB 120, LAB 121, LAB 124, LAB 125 & LAB 127

NO. SUBMITTALS	1	0
NO. REVISIONS PROCESSED	0	0
NO. REVISED SUBMITTALS	0	0
NO. REVISIONS	0	0
DATE	10-7-2021	

DESIGNED RAQ  
DRAWN NM  
REVISED -  
REVISION # -  
DATE 10-7-2021



CONTROLS EQUIPMENT SCHEDULE				
UMM BAS-BASED LAB AIRFLOW SAFETY STANDARD (BLASS)				
SYMBOL I.D.	SYMBOL I.D.	DESCRIPTION	MANUFACTURER (OR PRIOR APPROVED BY P.E.)	REMARKS
GEV	GEV	GENERAL EXHAUST VALVE	ACCUTROL	A. AIRFLOW CONTROL VALVE MODULATES TO MAINTAIN ROOM PRESSURIZATION, BASED ON SUPPLY AIR VOLUME AND LAB EXHAUST VOLUME AND A CALCULATED VOLUMETRIC OFFSET FOR PRESSURIZATION. B. UMM FM ENGINEERING DESIGN. STANDARDS PERMIT AIRFLOW CONTROL VALVES WITH LESS THAN 0.5"WC MINIMUM PRESSURE DROP.
		CONTROL VALVE ACTUATOR	BELIMO	
		GEV AIRFLOW TRANSMITTER	ACCUTROL (SUPPLIED WITH VON KARMAN VORTEX SHEDDING VELOMETERS)	
LEV	LEV	GENERAL EXHAUST VALVE	ACCUTROL	A. AIRFLOW CONTROL VALVE MODULATES TO MAINTAIN A SPECIFIED AIR VELOCITY AT THE FACE OF A FUME HOOD, BASED ON SASH POSITION. B. UMM FM ENGINEERING DESIGN. STANDARDS PERMIT AIRFLOW CONTROL VALVES WITH LESS THAN 0.5"WC MINIMUM PRESSURE DROP.
		CONTROL VALVE ACTUATOR	BELIMO	
		LEV AIRFLOW TRANSMITTER	ACCUTROL (SUPPLIED WITH VON KARMAN VORTEX SHEDDING VELOMETERS)	
	ACT	DOC, FULLY MODULATING ACTUATOR	BELIMO	
AF	AF	BLEED AIRFLOW SENSOR	EBTRON, EB FLOW II MODEL EF-X000-B UNIT WITH DISPLAY AND WALL MOUNT KIT.	BLEED AIRFLOW SENSOR WILL DETECT VERY SMALL PRESSURE DIFFERENTIALS BETWEEN TWO ADJACENT SPACES BY SENSING AIRFLOW RATE INDUCED BY THE PRESSURE GRADIENT.
C		FUME HOOD MONITOR / CONTROLLER KEYPAD		DISPLAYS FUME HOOD FACE VELOCITY AS CALCULATED FROM MEASURED VELOCITY AT A POINT NEAR LEV WITH KNOWN AREA AND THE HOOD SASH POSITION. OUTPUTS ALARM FUNCTION TO AN ALARM BUZZER MOUNTED NEAR THE FUME HOOD CONTROLLER/KEYPAD. ALSO ACTS AS A LOCAL CONTROLLER, TAKING INPUT FROM THE HOOD SIDEWALL VELOCITY SENSOR, SASH POSITION SENSOR, LEV FLOW, AND OCCUPANCY/PROXIMITY SENSOR, AND CONTROLLING LEV POSITION FOR ONE HOOD. CURRENT BASIS OF DESIGN IS A TEL AFA 1000Z M2 FUME HOOD MONITOR.

## SEQUENCE OF OPERATION

### GENERAL

**PROGRAMMING.** THE FMS SHALL BE PROGRAMMED ACCORDING TO THE FOLLOWING SEQUENCE OF OPERATIONS INCLUDING ALL ENERGY REDUCTION OPERATIONS DESCRIBED IN THIS SEQUENCE.

**SYSTEM STATUS DISPLAY.** THE FMS SHALL PROVIDE OPERATING STATUS FOR ALL SYSTEMS CONTROLLED BY THE FMS. THE DISPLAYS SHALL INCLUDE ALL POINTS INDICATED ON THE DRAWINGS AND ANY OTHERS REQUIRED TO ACHIEVE THE SEQUENCE OF OPERATIONS. THE FMS SHALL BE ABLE TO INTEGRATE SYSTEM DIAGNOSTICS INTO CONTROL ACTION DECISIONS. THIS SHALL ALSO INCLUDE THE ABILITY TO DESIGNATE INDIVIDUAL UNITS AS BEING IN MAINTENANCE MODE TO AVOID GENERATING ALARMS. ALL SYSTEM CONTROL AND STATUS EVENTS SHALL BE RECORDED AT THE OPERATOR'S SELECTION. IN THE FMS EVENT LOG TO FACILITATE TROUBLESHOOTING. ALL DETECTED ALARMS OR FAILURES SHALL INITIATE AN ALARM WITHIN THE FMS.

**POWER FAILURE RECOVERY.** THE FMS SHALL CONTAIN A POWER FAILURE RECOVERY MODE (OPERATOR ADJUSTABLE). THE POWER FAILURE RECOVERY CAPABILITY SHALL RETURN THE SYSTEM TO ITS LAST STATE (BEFORE THE BUILDING LOST POWER).

### LABORATORY CONTROLS

**GENERAL.** EACH LABORATORY SHALL BE INSTALLED WITH A FMS VARIABLE AIR VOLUME CONTROL SYSTEM WHICH SHALL CONTROL THE VARIABLE VOLUME SUPPLY AIR HOT DECK AND COLD DECK DAMPERS, GENERAL EXHAUST AIR VALVE AND LAB HOOD EXHAUST VALVES WHERE NEEDED. THE CONTROL SYSTEM SHALL INCLUDE ALL REQUIRED EXHAUST AIR VALVES, SUPPLY AIR DAMPERS / ACTUATORS, CONTROLLERS, NETWORK ROUTERS, AND SENSORS FOR A COMPLETE AND OPERATIONAL SYSTEM. THE SYSTEM SHALL OPERATE TO MAINTAIN A MINIMUM OF 6 AIR CHANGES PER HOUR. REFER TO MECHANICAL FLOOR PLANS FOR EXACT AIR FLOW REQUIREMENTS IN EACH LAB.

**VAV FUME HOOD CONTROL.** EACH FUME HOOD FACE VELOCITY AND EXHAUST VOLUME SHALL BE CONTINUOUSLY MEASURED. THE FMS CONTROLLER SHALL MODULATE THE FUME HOOD AIR VALVE TO MAINTAIN THE FACE VELOCITY AT A SETPOINT OF 100 FPM ±20-FPM AND THE MINIMUM EXHAUST VOLUME SET POINT AT ALL TIMES. IF A FAILURE IS DETECTED IN THE FUME HOOD SYSTEM, THE LOCAL FUME HOOD INDICATOR SHALL ALARM AS WELL AS AN ALARM SHALL BE INITIATED BY THE FMS. THE FUME HOOD CONTROLLER SHALL SEND AIRFLOW VALUES TO THE FMS VIA HARDWIRED CONNECTION TO CONTROL SUPPLY AND GENERAL EXHAUST TO MAINTAIN THE LABORATORY SPACE PRESSURE.

**FUME HOOD SASH ALARM SYSTEM.** IF SASH IS OPEN GREATER THAN 5% AND NO MOTION IS DETECTED BY THE MOTION DETECTOR FOR 60 SECONDS (ADJUSTABLE), THEN THE FUME HOOD CONTROLLER SHALL INITIATE AN AUDIBLE PULSE TONE. IF THE SASH IS CLOSED LESS THAN 5% OR MOTION IS DETECTED BY THE MOTION DETECTOR (WITHIN THE PAST 60-SECONDS, ADJUSTABLE), THEN NO ALARM TONE IS PRODUCED. THE FUME HOOD SASH ALARM SHALL HAVE A DISTINCT TONE FROM, AND SHALL BE PHYSICALLY SEPARATED FROM, THE FUME HOOD MONITOR AND AIRFLOW ALARM TONE GENERATOR. THERE SHALL BE A PLACARD NEAR THE SASH MONITOR ALARM BUZZER THAT DESCRIBES THAT THE ALARM IS A SASH ALARM THAT IT CAN BE SILENCED ONLY BY OCCUPYING THE HOOD OR CLOSING THE SASH, AND THAT CONDITIONING MAKEUP AIR FOR A 6-FOOT HOOD WITH AN OPEN SASH REQUIRES THE SAME ENERGY AS CONDITIONING THE VENTILATION AIR FOR 6.4 RESIDENTIAL HOMES OF 2000 FT2 EACH.

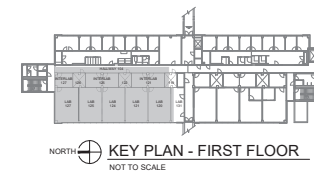
**VARIABLE VOLUME ROOM PRESSURE CONTROL.** THE FMS SHALL CONTROL SUPPLY AND GENERAL EXHAUST AIRFLOW DEVICES IN ORDER TO MAINTAIN A VOLUMETRIC OFFSET (NEGATIVE). OFFSET SHALL BE MAINTAINED REGARDLESS OF ANY CHANGE IN FLOW OR STATIC PRESSURE. THIS OFFSET SHALL BE FIELD ADJUSTABLE AND REPRESENTS THE VOLUME OF AIR WHICH WILL ENTER (OR EXIT) THE ROOM FROM THE CORRIDOR OR ADJACENT SPACES. THE PRESSURIZATION CONTROL ALGORITHM SHALL SUM THE FLOW VALUES OF ALL SUPPLY AND EXHAUST AIRFLOW DEVICES AND COMMAND APPROPRIATE CONTROLLED DEVICES TO NEW SET POINTS TO MAINTAIN THE DESIRED OFFSET. THE OFFSET SHALL BE ADJUSTABLE. THE PRESSURIZATION CONTROL ALGORITHM SHALL CONSIDER BOTH NETWORKED DEVICES, AS WELL AS NON-NETWORKED DEVICES PROVIDING A LINEAR ANALOG FLOW SIGNAL AND ANY NUMBER OF CONSTANT VOLUME DEVICES WHERE THE TOTAL OF SUPPLY DEVICES AND THE TOTAL OF EXHAUST DEVICES MAY BE FACTORED INTO THE PRESSURIZATION CONTROL ALGORITHM. VOLUMETRIC OFFSET SHALL BE THE ONLY ACCEPTABLE MEANS OF CONTROLLING ROOM PRESSURIZATION. THE PRESSURIZATION CONTROL ALGORITHM SHALL SUPPORT THE ABILITY TO REGULATE THE DISTRIBUTION OF TOTAL SUPPLY FLOW ACROSS MULTIPLE SUPPLY AIRFLOW CONTROL DEVICES IN ORDER TO OPTIMIZE AIR DISTRIBUTION IN THE SPACE.

**VARIABLE VOLUME TEMPERATURE CONTROL.** THE TEMPERATURE OF THE LAB SHALL BE CONTINUOUSLY MEASURED. IF THE LAB REQUIRES COOLING, THE SUPPLY AIR VALVE AND GENERAL EXHAUST AIR VALVE SHALL BE MODULATED TOGETHER BETWEEN THE MINIMUM AND MAXIMUM COOLING AIR FLOWS TO MAINTAIN THE SPACE TEMPERATURE AT THE OCCUPIED COOLING SETPOINT OF 70°F (ADJUSTABLE), I.E.,

IF THE COLD DECK DAMPER IS FULL OPEN, THE HOT DECK DAMPER SHALL BE IN ITS MINIMUM POSITION).

IF THE LAB REQUIRES HEATING, THE HOT DECK DAMPER SHALL BE MODULATED TO MAINTAIN THE SPACE TEMPERATURE AT THE OCCUPIED HEATING SETPOINT OF 70°F (ADJUSTABLE).

THE LAB TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THROUGH THE FMS.



REV	DESCRIPTION	DATE
1	ISSUE FOR PERIOD	2-2-20
2	REVISED PERIOD	1-2-20
3	REVISED PERIOD	1-2-20
4	REVISED PERIOD	1-2-20

DESIGNED RAQ

DRAWN NM

REVISED -

REVISION # -

DATE 10-7-2021



# TAB 6

#6

Approval of Lease: UNM Early Childhood Services Center, 4400  
Alameda NE, Suites A and B, Albuquerque, NM, 87113



# Memo

**To:** Teresa Costantinidis, Senior Vice President for Finance and Administration

**From:** Thomas M. Neale, Director of Real Estate

**Date:** February 15, 2022

**Re:** Request for Lease Approval – 4400 Alameda NE, Suites A and B,  
Albuquerque, NM 87113

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On behalf of the University of New Mexico Early Childhood Services Center (ECSC) program, the Real Estate Department is seeking Regent's approval to lease real property located at 4400 Alameda Boulevard NE, in Albuquerque, New Mexico. The property is a one-story office building containing 11,639 square feet and is located on the southside of Alameda Boulevard NE, west of I-25 and across from Albuquerque's Balloon Fiesta Park.

ECSC provides integrated services, support and resources to early childhood professionals, programs, communities, families and children. UNM operates five ECSC locations across the state of New Mexico including Albuquerque, Espanola, Gallup, Roswell and Las Cruces. The Albuquerque ECSC is currently housed in multiple facilities and this lease will consolidate activities into one location.

The leased space contains a high density of partitioned office areas along with spaces designated for conference/classroom space and a resource lending library. The location provides good linkages to the targeted service areas of the northern portion of the Albuquerque metropolitan area, including Rio Rancho and Bernalillo.

The lease provisions include a ten-year term commencing at \$16.50 per square foot, or \$192,044 for the initial year. Rent escalates at 2.5% annually through the lease term. The Landlord is responsible for property taxes, insurance, structural repairs and maintenance, mechanical systems, and grounds maintenance. UNM will be responsible for utilities, telecommunication/data, and janitorial services. UNM will have one, three-year renewal option. A copy of the letter of the intent is attached.

COMMERCIAL REAL ESTATE SERVICES

Debbie Dupes, CCIM  
First Vice President  
505-837-4921  
[debbie.dupes@cbre.com](mailto:debbie.dupes@cbre.com)

Cheryl Hardt  
Senior Vice President  
505-837-4925  
[cheryl.hardt@cbre.com](mailto:cheryl.hardt@cbre.com)

CBRE, Inc.  
Advisory & Transaction Services  
Tenant Counter 2-3-22  
14 February 2022

Debbie Dupes  
Cheryl Hardt

Via email: [Debbie.dupes@cbre.com](mailto:Debbie.dupes@cbre.com)


Re: 4400 Alameda -Suites A and B  
Letter of Intent (LOI) from the University of New Mexico

Dear Debbie and Cheryl ::

Below is a response to your LOI. On behalf of the Regents of the University of New Mexico, we are pleased to present this Letter of Intent to lease 4400 Alameda, Suites A and B to you. Please consider this proposal as confidential between Tenant, Landlord and CBRE, Inc. Your response is requested within **5 days** from receipt of this letter of intent.

Sincerely,

CBRE, Inc.



Debra L. Dupes CCIM  
First Vice President



Cheryl Hardt  
Senior Vice President

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# CBRE

CBRE Centre  
6100 Uptown Blvd NE, Suite 300  
Albuquerque, NM 87110

505 837 4999 Tel  
505 837 4994 Fax

[www.cbre.com](http://www.cbre.com)



14 February 2022  
4400 Alameda NE, Suites A and B  
UNM  
Page 2

Jim Chynoweth, Managing Director  
(License #16374 Expiration 3/31/24)

**Letter of Intent**

**Tenant:** The Regents of the University of New Mexico, a body corporate of the State of New Mexico, on behalf of the Early Childhood Services Center.

**Landlord:** Please provide the legal ownership entity, including its State of Domicile. Mike and Kathleen Mechenbier Trust

**Use:** General office use, or all other lawful purposes.

**Building/Property:** 4400 Alameda NE, Albuquerque, NM 87113

**Premises:** Suites A and B, containing approximately 11,639 RSF. Tenant will be permitted to verify the size of the proposed area.

**Lease Commencement Date:** The lease is subject to approval by the Board of Regents and the Higher Education Department which shall take place no later than May 2022. Please state the earliest Tenant could occupy pending final approval of the lease. Lease commencement date shall be 90 days from full execution of lease between Landlord and Tenant.

**Rent Commencement:** Rent Commencement shall be based upon the Lease Commencement Date, taking into consideration abated rent period(s).

**Early Access:** Tenant shall have access to the Premises, at no charge, for installation of fixtures, telecommunications, and other items as it relates to getting the Premises ready for occupancy 4 weeks prior to Lease Commencement.

**Lease Term:** 10 Years 2 month.

**Renewal Options:** Tenant shall have 1 option to renew the lease for 1 additional terms of 3 years. Tenant shall give Landlord 6 months' prior written notice of its intention to exercise such option. Such Renewal Option will be at 3% annual increases.

**Base Rent:** Year 1 of the Lease Term shall begin at \$16.50/RSF per the Base Rent schedule below based on 2.5% annual increases for the Lease Term is as follows:

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Period Commencing	Rate	Monthly Rent	Annual Rent
Year 1	\$ 16.50	\$ 16,003.63	\$ 192,043.50
Year 2	\$ 16.91	\$ 16,403.72	\$ 196,844.59
Year 3	\$ 17.34	\$ 16,813.81	\$ 201,765.70
Year 4	\$ 17.77	\$ 17,234.15	\$ 206,809.84
Year 5	\$ 18.21	\$ 17,665.01	\$ 211,980.09
Year 6	\$ 18.67	\$ 18,106.63	\$ 217,279.59
Year 7	\$ 19.13	\$ 18,559.30	\$ 222,711.58
Year 8	\$ 19.61	\$ 19,023.28	\$ 228,279.37
Year 9	\$ 20.10	\$ 19,498.86	\$ 233,986.36
Year 10	\$ 20.61	\$ 19,986.33	\$ 239,836.02

Two month free rent

**Tenant Improvements:** Tenant requires a turnkey installation based upon a mutually acceptable space plan. Please advise when Tenant may meet with Landlord's tenant improvement contractor to prepare a space plan and advise as to layout and finishes of the proposed Premises. Preliminary plan attached

**Restoration:** Tenant shall not have any restoration obligations at the end of the Lease Term other than to remove its personal property from the Premises and leave it in broom-clean condition. Tenant shall not have the obligation to remove any alterations at the end of the Lease Term unless Landlord reasonably requires Tenant to do so at the time it approves Tenant's plan(s).

**Assignment & Subletting:** Tenant shall have the right to assign or sublease the Premises or any part to any other University administered programs including without limitation, any University auxiliary, collaboration or joint venture, for any remaining term of the Lease or extension thereof. Tenant shall not otherwise assign or sublease the Premises without first obtaining the written consent of Landlord, which shall not be unreasonably withheld.

**Lease Type:** Modified Gross. Please explain building expenses that are Tenant's responsibility. Tenant is responsible for individually metered electric and gas utilities, prorata share of water, sewer and refuse, interior maintenance (i.e. replacement of light bulbs, ballasts, clogged toilets and sinks, glass breakage, recharging of fire extinguishers, pest control, janitorial, snow removal and prorata share of increases in property taxes and fire and extended coverage insurance of 2022 base year. Snow removal for Suites A and B in the past was performed by previous Suite A and B tenants. Landlord assumes

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since Tenant has its own facilities that they would use their own facilities people for snow removal.

Please see Tenant's standard lease form attached.

**Security Deposit:** None.

**Rental Abatement:** Landlord will abate the first 2 month of Rent.

**Security:** Tenant will be permitted to tie its Premises security system into the Building's alarm and access system.

Please describe Landlord's current security measures. Tenant is responsible for its own alarm and security system.

**Parking:** Please define the number of surface parking spaces available to Tenant. 60 parking spaces.

**ADA and Code Compliance:** The Building and the Premises, as of the Commencement Date, will be ADA compliant. Any costs associated with ADA compliance will be at the Landlord's sole cost and expense. Landlord at its sole cost and expense, will cause the Building and all related improvements to be in compliance with all codes and regulations pursuant to any federal, state or local government law, and shall so represent such compliance to Tenant.

**Broadband Access & Fiber:** Please indicate Broadband and Fiber providers available to the Tenant. Comcast and Century Link

**Signage:** Landlord shall provide Building standard directory and Suite signage. Please state exterior building signage opportunities available to tenant. Two monument signs for tenant's identification in front of Suite A and Suite B.

**Holdover:** Tenant's holding over or continued use or occupancy shall be construed as a tenancy from month-to-month at 115% of then current rent at the end of the lease term and subject to the same conditions set forth in the Lease.

**Subordination Agreement/Non-disturbance:** Throughout the term of the lease, and any extension thereof, Landlord shall have the right to mortgage, assign, sell or otherwise convey its interest in the Premises and Tenant shall, at the request of Landlord, subordinate its interest to that of any mortgagee or other lender of Landlord; provided, however, that Tenant's quiet enjoyment of the Premises shall not be disturbed so long as Tenant pays the Rent and

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fulfills the other obligations imposed upon it by the lease. Upon request of Landlord, Tenant will execute any document reasonably required to give effect to this paragraph. In the event of a transfer or mortgage of Landlord's interest in the Premises, or upon Landlord's written request, Tenant agrees to execute, acknowledge and deliver to Landlord, within ten (10) days after written request, in recordable form, a certificate certifying that the rights of Tenant in the Premises are subordinate to and inferior to those of the mortgage lender and certifying, among other things, that the lease is in full force and effect; that there are no deficiencies or offsets thereto, or stating those claimed by Tenant, as the case may be; that there are no uncured defaults in Landlord's performance thereunder; and that not more than the current month's rent has been paid in advance as of the date the written request was delivered. Tenant agrees that failure by Tenant to deliver such statement within such time shall be deemed conclusively to mean that the lease is in full force and effect without modifications except as may be represented by Landlord and that the requested representations are true and correct. In the event any proceedings are brought for foreclosure under any mortgage or deed of trust made by the Landlord or any predecessor or any successor covering the Premises, the Tenant shall attend to the purchaser upon any foreclosure sale and recognize such purchaser as the Landlord under this lease. Property does not have any debt against it.

Landlord covenants that if and so long as Tenant pays the Rent and performs the covenants hereof, Tenant shall peaceably and quietly have, hold and enjoy the Premises for the term herein mentioned, subject to the provisions of the lease.

**Funding Clause:** All State of New Mexico entities are subject to a funding clause in their leases. Should the proposed lease be terminated under the funding clause, Tenant will reimburse Landlord for unamortized Tenant improvement costs and commissions for the period of time from the date of termination through the end of the tenth lease year. The amortization rate for this calculation will be 6% per annum.

**Loan & Encumbrances:** Please state the name of lender and provide information on the type of loan or other encumbrance (ground lease, etc.) currently related to the Building. State whether the lender or Landlord must approve the lease and/or any procedural issues of this type (including time frames for such approval), which may affect execution of the lease. Property has no debt against it.

**Brokerage and Brokerage Disclosure:** Landlord acknowledges Debbie Dupes and Cheryl Hardt of CBRE, Inc. ("Tenant's Broker") as Tenant's transaction broker. Mike Leach and Greg Leach represent the Landlord. Upon execution of a lease between the parties, Tenant's Broker will be entitled to a commission equal to 3% of the total lease consideration for the first 5 years of lease value plus NMGR and 2% of the total lease consideration for the second 5 years of lease value plus NMGR per the terms stipulated in a separate

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agreement to be completed between Landlord's broker and Tenant's broker. Landlord shall be responsible for payment of brokerage commissions.

Landlord:

By: Mike Neenan  
Print: Mike Neenan  
Title: Trustee  
Date: 2-14-22

Tenant:

Regents of the University of New Mexico

Signed: Authentisign Julie Brasil  
Print: Julie Brasil  
Title: Real Estate Manager  
Date: 02/14/22

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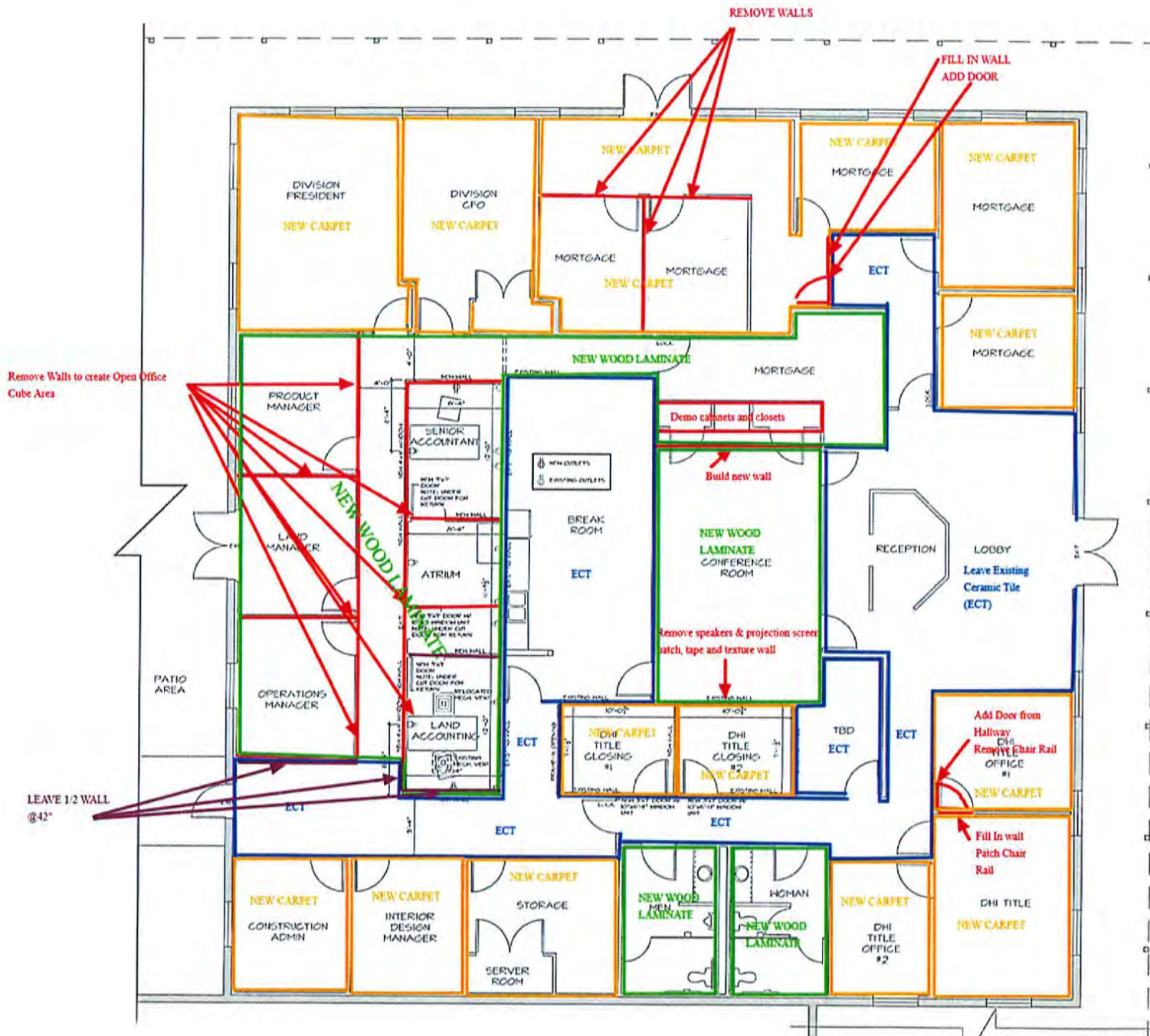
See preliminary space plans attached.

Preliminary Space Plans





BUILDING B: TI EXHIBIT





# TAB 7

#7

Approval of Appointment of a Representative of Lobo Development Corporation to the South Campus Tax Increment Development District (TIDD)



## Memo

To: Regent Doug Brown, Chair, UNM Board of Regents

From: Kelly S. Ward, Director, Lobo Development Corporation

Date: February 25, 2022

Re: Appointments to South Campus Tax Increment Development District Board

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Per the City of Albuquerque City Council approved South Campus Tax Increment Development District (TIDD) Formation Resolution, the Regents of the University of New Mexico are required to appoint two members of the five member South Campus Tax Increment Development District Board. One member shall represent the University of New Mexico and shall serve a four-year term and one member shall represent the Lobo Development Corporation and shall serve a six-year term as the Treasurer of the District. The other Board members will consist of one representative of the City of Albuquerque City Council appointed by the City Council, one representative of the City Administration appointed by the Mayor, and one representative of the State of New Mexico appointed by the Secretary of the Department of Finance and Administration.

We would like to formally request the appointments of Lisa Marbury, UNM Institutional Support Services Asst. Vice President, as the University of New Mexico representative, and Teresa Costantinidis, Lobo Development Corporation CEO, as the Lobo Development Corporation representative to the South Campus Tax Increment Development District (TIDD) Board.

# TAB 8

**#8**

Approval of the Sale of Real Property to Tucker Acquisitions, LLC



## Memo

To: Teresa Costantinidis, UNM Senior Vice President for Finance and Administration

From: Kelly S. Ward, Director of Business Development, Lobo Development Corporation  
Tom Neale, Director, UNM Real Estate Department

Date: February 25, 2022

Re: Approval of the sale of real property to Tucker Acquisitions, LLC

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Pursuant to Section 7.9 (Property Management) of the Regents' Policy Manual, Lobo Development Corporation and the UNM Real Estate Department is seeking the Board of Regents' approval of the sale of real property located at the northeast corner of Gibson Boulevard SE and Alumni Drive SE at UNM's South Campus. The site is owned by the Regents of the University of New Mexico and the contract buyer is Tucker Acquisitions, LLC.

The Lobo Development Corporation (LDC) Board reviewed and approved the terms of the sale at its September 9, 2021 meeting. The agreement calls for final approval by the Board of Regents and notification to the Higher Education Department.

The sale is Tract 3 of the Gibson Commercial District Subdivision and is located at the northeast corner of Gibson Boulevard SE and Alumni Drive SE. The tract is approximately 1.3 acres. The sales price is \$1,694,658.00, or \$30.00 per square foot. Attached is a map identifying the location of the property.

The tract will be developed as a Raising Cane's Chicken Fingers fast food restaurant with an option to develop a coffee shop adjacent to Raising Cane's and within the tract.

LDC and UNM Real Estate have negotiated certain provisions which protect the site and the adjacent property from development and use for potential undesirable purposes. Specifically, the agreement calls for the owner to develop a Raising Cane's Chicken Fingers restaurant and, if feasible, an adjoining coffee shop. No other uses are allowed on this parcel. If the developer fails to develop the property in less than five years, the University has the right to repurchase the parcel at a purchase price equal to this sale price.

UNM will have development plan review and approval responsibilities prior to construction commencement.

Additionally, UNM will have the option to purchase the parcel, any improvements and interest in leases at any time after the tenth year following closing of the property.

Lastly, UNM will have the right of first refusal should the buyer seek to sell the parcel at any time in the future.

The tract is located within the recently approved South Campus Tax Increment Development District. Gross receipts tax generated from construction and operation will accrue to the district to support infrastructure improvements.

Recommendation: Approval







# TAB 9

**#9**

Recommendations for Consent Agenda Items on Full Board of Regents'  
Agenda

## **ACTION ITEM RECOMMENDATIONS:**

Recommendations for Consent Agenda Items on Full Board  
of Regents' Agenda (*Sandra Begay, Chair, Regents' Finance  
& Facilities Committee*)

# TAB 10

## #10

Recommendations for Consent Agenda Items on Full Board of Regents' Agenda



## Fundraising Performance Report

FY 21/22, December 31, 2021

Gift Commitments (Fiscal Year)	This Quarter	FYTD 21/22	GOAL	FY 20/21
<b>Main Campus</b>				
- Cash/Cash Equivalents	\$ 5,957,208	\$ 8,607,721	N/A	\$ 11,460,402
- In-Kind	\$ 359,022	\$ 380,522	N/A	973,521
- Pledges	\$ 752,000	\$ 884,573	N/A	3,006,950
- Testamentary	\$ 3,980,000	\$ 6,902,500	N/A	12,286,643
Sub-Total	\$ 11,048,230	\$ 16,775,316	\$ 27,900,000	\$ 27,727,516
<b>HSC</b>				
- Cash/Cash Equivalents	\$ 7,443,635	\$ 13,582,084	N/A	\$ 23,642,942
- In-Kind	\$ 450	\$ 39,685	N/A	509,929
- Pledges	\$ 90,103	\$ 1,465,103	N/A	211,263
- Testamentary	\$ 80,000	\$ 992,964	N/A	5,687,014
Sub-Total	\$ 7,614,188	\$ 16,079,836	\$ 29,200,000	\$ 30,051,148
<b>Athletics</b>				
- Cash/Cash Equivalents	\$ 1,101,492	\$ 2,162,712	N/A	\$ 3,444,149
- In-Kind	\$ 2,300	\$ 92,779	N/A	428,733
- Pledges	\$ -	\$ -	N/A	-
- Testamentary	\$ -	\$ -	N/A	25,000
Sub-Total	\$ 1,103,792	\$ 2,255,491	\$ 6,140,000	\$ 3,897,882
<b>Other Campus Units *</b>				
- Cash/Cash Equivalents	\$ 6,892,851	\$ 11,153,055	N/A	\$ 16,000,458
- In-Kind	\$ 14,416	\$ 21,898	N/A	442,977
- Pledges	\$ 160,000	\$ 160,000	N/A	445,000
- Testamentary	\$ 3,015,000	\$ 4,150,000	N/A	6,810,540
Sub-Total	\$ 10,082,267	\$ 15,484,953	\$ 24,760,000	\$ 23,698,975
<b>Total</b>	<b>\$ 29,848,477</b>	<b>\$ 50,595,596</b>	<b>\$ 88,000,000</b>	<b>\$ 85,375,521</b>

\* Other campus units include KNME, KUNM, UNM Branch Campuses, President's Office, Provost's Office, Enrollment Services, Student Affairs and numerous other units not classified as main campus, HSC or athletics.

Gift Destinations	This Quarter	FYTD 21/22	FY 20/21	FY 19/20
UNM Foundation	\$ 21,407,298	\$ 32,982,705	\$ 57,597,074	\$ 63,793,148
Reported Gifts *	\$ 8,441,179	\$ 17,612,892	\$ 27,778,447	\$ 30,811,240
<b>Total</b>	<b>\$ 29,848,477</b>	<b>\$ 50,595,597</b>	<b>\$ 85,375,521</b>	<b>\$ 94,604,388</b>

\* Reported Gifts = gifts made directly to KNME, KUNM, Lobo Club, and OVPR, but reported by UNM Foundation per MOA.

## Fundraising Performance Report

FY 21/22, December 31, 2021

Gift Commitments (Fiscal Year)	FYTD 21/22	FY 20/21	FY 19/20
<b>Gifts for UNM's Current Use</b>			
Cash/Cash Equivalents	\$ 27,103,174	\$ 38,908,534	\$ 48,953,571
In Kind	\$ 534,884	\$ 2,355,160	\$ 3,381,622
<b>Total Gifts for UNM's Current Use</b>	<b>\$ 27,638,058</b>	<b>\$ 41,263,694</b>	<b>\$ 52,335,193</b>
<b>Gifts for UNM's Future</b>			
Cash/Cash Equivalents to the Endowment	\$ 8,402,398	\$ 15,639,417	\$ 9,817,176
Pledges	\$ 2,509,676	\$ 3,663,213	\$ 1,565,438
Testamentary Gifts	\$ 12,045,464	\$ 24,809,197	\$ 30,886,581
<b>Total Gifts for UNM's Future</b>	<b>\$ 22,957,538</b>	<b>\$ 44,111,827</b>	<b>\$ 42,269,195</b>
<b>Total Gift Commitments</b>	<b>\$ 50,595,596</b>	<b>\$ 85,375,521</b>	<b>\$ 94,604,388</b>

## Fundraising Performance Report

FY 21/22, December 31, 2021

Pledges and Testamentary Gifts due	FYTD 21/22	FY 20/21	FY 19/20
Beginning Balance Pledges Receivable	\$ 6,718,906	\$ 8,730,412	19,822,964
Add: New Pledges	\$ 2,509,676	\$ 3,663,213	1,565,438
Less: Pledge Payments	\$ (3,996,867)	\$ (4,951,719)	\$ (3,489,332)
Less: Pledges Cancelled/Modified/Written Off	\$ (9,000)	\$ (723,000)	(9,168,658)
Ending Balance Pledges Receivable	\$ 5,222,715	\$ 6,718,906	\$ 8,730,412
Testamentary Pledges Due	\$ 240,942,067	\$ 231,917,313	218,292,411
<b>Total Pledges and Testamentary Gifts Due</b>	<b>\$ 246,164,782</b>	<b>\$ 238,636,219</b>	<b>\$ 227,022,823</b>

Performance Measures	This Quarter	FYTD 21/22	FY 20/21	FY 19/20
Gift Commitment Income	\$ 29,848,477	\$ 50,595,596	\$ 85,375,521	\$ 94,604,388
# of Gifts	7,644	13,266	26,344	27,285
# of Donors	4,232	5,766	8,826	8,914

## Consolidated Investment Fund - Investment Performance

FY 21/22, December 31, 2021

Investment Performance Results	Market Value	1-Year	3-Year	5-year	10-Year
FY 21/22, December 31, 2021	\$ 630,865,350	20.1%	15.1%	10.9%	9.1%
Custom Benchmark *		18.4%	15.5%	11.4%	9.2%
FY 20/21, June 30, 2021	\$ 580,297,462	31.3%	11.0%	10.6%	8.0%
Custom Benchmark *		29.9%	11.1%	10.8%	7.9%
NACUBO/Commonfund **		N/A	N/A	N/A	N/A

\* Custom Benchmark is a blended benchmark consisting of indices for all asset classes.

\*\* NACUBO/Commonfund Endowment Study (\$101 million to \$500 million)

## Consolidated Investment Fund - Asset Allocation

FY 21/22, December 31, 2021

Investment Class	Current Allocation	Target Allocation	Investment Policy Ranges
Domestic Equity	33.2%	37.0%	10% - 50%
International Equity	22.3%	25.0%	10% - 40%
Fixed Income/Cash	12.8%	10.5%	10% - 50%
Real Assets	3.4%	3.5%	0% - 15%
Hedge Funds	7.9%	8.0%	5% - 20%
Private Investments	20.4%	16.0%	0% - 20%

## Consolidated Investment Fund - Spending Distribution

FY 21/22, December 31, 2021

CIF Spending Distribution	FY 21/22 Approved Distribution	FY 20/21 Approved Distribution
Endowment Spending Distribution	\$ 21,311,739	\$ 18,253,344
Endowment Spending Distribution Rate	4.5%	4.5%

Regents' Endowment

In June 1983, the University of New Mexico Board of Regents established the Regents Endowment with \$622,315. An additional \$20,971,886 was added to the endowment from the sale of University land in fiscal years:

1985/86: \$1,332,640	1990/91: \$3,500,000
1987/88: \$1,400,000	2006/07: \$8,045,923 (Mesa Del Sol)
1988/89: \$1,723,724	2020/21: \$3,041,445
1989/90: \$1,928,154	

The Regents Endowment is a “quasi endowment” which is co-invested along with other University and UNM Foundation endowments in the Consolidated Investment Fund. The endowment corpus and any annual spending distributions from the endowment to the University may be used at its discretion.

The Board of Regents initially designated the monies for recruitment and retention of outstanding faculty, student merit-based scholarship programs and to develop University owned real estate. In 2005, the Board of Regents approved Regents' Policy 7.19 that expanded the use of monies. The University has historically designated the monies to scholarships, professorships, lectureships, fellowships, study abroad programs, minority faculty hiring, the President's Advancement Fund, and tuition assistance programs.

**Market Value (at 12/31/2021):** **\$33,526,054**

CIF Investment Performance: <b>FYTD:</b>	<b>6.7%</b>
1-Year	20.1%
3-Year	15.1%
5-Year	10.9%
10-Year	9.1%

Spending Distributions:	2017/18	\$964,646
(5-year History)	2018/19	\$939,572
	2019/20	\$917,053
	2020/21	\$947,085
	<b>2021/22</b>	<b>\$1,132,569</b>

Withdrawals from Corpus:	2005/06	\$2,000,000 ASM Student Investment Fund
(Approved by Regents)	2005/06	\$1,888,233 Purchase Properties
	2008/09	\$880,525 Regents Scholarship
	2012/13	\$1,100,000 Baseball Field
	2014/15	\$761,918 Innovate ABQ
	2016/17	\$1,000,000 UNM Branding Campaign
	2017/18	\$814,207 UNM Athletics Funding
	2018/19	\$798,039 UNM Athletics Funding
	2019/20	\$350,000 Enrollment Management Initiatives
	2019/20	\$487,500 Grand Challenges
	2020/21	\$162,500 Grand Challenges



## Winrock Land Sale Endowment

In November 2001, the University of New Mexico Board of Regents established the Winrock Land Sale Endowment with \$25 million in proceeds from the sale of the Winrock Shopping Center property.

The Winrock Land Sale Endowment is a “quasi endowment” which is co-invested along with other University and UNM Foundation endowments in the Consolidated Investment Fund. The endowment corpus and any annual spending distributions from the endowment to the University may be used at the Regents’ discretion.

The University has historically designated the monies to national merit scholarships, need-based financial aid, faculty retention, graduate fellowships and travel grants, capital improvements. To date, over \$19 million has been distributed from the endowment for these programs.

**Market Value (at 12/31/2021):** **\$35,695,641**

CIF Investment Performance: <b>FYTD:</b>	<b>6.7%</b>
1-Year	20.1%
3-Year	15.1%
5-Year	10.9%
10-Year	9.1%

Spending Distributions:	2017/18	\$1,024,422
(5-year History)	2018/19	\$1,027,828
	2019/20	\$1,034,960
	2020/21	\$1,108,186
	<b>2021/22</b>	<b>\$1,205,861</b>



Hugh B. and Helen K. Woodward Endowment

In 1982, the University of New Mexico Board of Regents established the Hugh B. and Helen K. Woodward Endowment to receive and invest distributions from the Woodward Trust.

The University receives 45% of the annual net income from the Woodward Trust administered by the Sandia Foundation, a Hugh and Helen Woodward Charity, in accordance with the will of Hugh B. Woodward. UNM's share of these annual distributions (approximately \$1.4 million annually) from the Sandia Foundation are deposited in the Hugh B. and Helen K. Woodward Endowment.

The Hugh B. and Helen K. Woodward Endowment is co-invested along with other University and UNM Foundation endowments in the Consolidated Investment Fund

The Last Will and Testament of Mr. Woodward stated:

*It is my hope and wish, but I do not require, that a substantial portion of the annual net income shall be used by the Regents of the University of New Mexico: (1) to financially assist deserving students to begin and complete their college education, (2) to establish and maintain scholastic awards, grants scholarships and prizes to be conferred upon individual students, including students in the School of Law and the School of Medicine, when established, in recognition of achievement and usefulness to said university and to its student body, and (3) to supplement regular salaries of the Dean of the School of Law and any deserving full professor of said school and the Dean of the School of Medicine and any deserving full professor of said school devoting full time to his professional employment. No more than Six Thousand Dollars (\$6,000.00) of the moneys passing to the Regents of the University of New Mexico annually shall be utilized to supplement the salaries as provided in subpart (3) of this paragraph.*

**Market Value (at 12/31/2021):** **\$72,207,082**

CIF Investment Performance: <b>FYTD:</b>	<b>6.7%</b>
1-Year	20.1%
3-Year	15.1%
5-Year	10.9%
10-Year	9.1%

Spending Distributions:	2017/18	\$2,146,914
(5-year History)	2018/19	\$2,236,177
	2019/20	\$2,330,920
	2020/21	\$2,562,137
	<b>2021/22</b>	<b>\$2,862,091</b>

The FY2021/22 endowment distribution was used for Regents' merit scholarships, presidential scholarships, UNM scholars and national merit scholarships.

# TAB 11

## #11

Recommendations for Information Agenda Items to be Added to the Full Board of Regents' Agenda

## **INFORMATION ITEM RECOMMENDATIONS:**

Recommendations for Information Agenda Items to be  
Added to the Full Board of Regents' Agenda (*Sandra Begay,*  
*Chair, Regents' Finance & Facilities Committee*)

# TAB 12

**#12**

EXECUTIVE SESSION



## **EXECUTIVE SESSION:**

None