ROSWELL INDEPENDENT SCHOOL DISTRICT

AESC HVAC UPGRADES

300 N. KENTUCKY, ROSWELL, NM 88201

CONSTRUCTION DOCUMENTS

JANUARY 20, 2023

McCLAIN + YU
ARCHITECTURE & DESIGN

STATE OF NEW MEXICO
RAIMUNDO MCCLAIN
No. 004757
REGISTERED ARCHITECT
JANUARY 20, 2023

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS.
2. THE CONTRACTOR SHALL COMPLY WITH (62-14.1 TO 62.14-8 NMSA 1978), THE NEW MEXICO STATE CODE REGARDING LOCATION OF UTILITIES.
3. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST NO LESS THAN 14 DAYS PRIOR TO ANY REQUIRED INTERRUPTION OF POWER, WATER, SEWER, NATURAL GAS, STEAM, CHILLED WATER, HVAC, SECURITY, FIRE ALARMS OR SUPPRESSION, OR ANY OTHER SYSTEMS, OR WHICH WILL IMPEDE TRAFFIC, EMERGENCY EGRESS, OR VEHICLE ACCESS OF ANY KIND.
4. SITE CLEANING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
5. DO NOT SCALE DRAWING. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE.
6. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. HE SHALL VERIFY AND COORDINATE ALL FOUNDATION PLAN DIMENSIONS WITH FLOOR PLANS, COORDINATE ALL DEMO PLANS WITH THE NEW WORK AND EXISTING CONDITIONS, AND SHALL BE RESPONSIBLE FOR PROPER EXECUTION OF ALL WORK.
7. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, TOP OF FINISH OR TO TOP OF PAVING UNLESS OTHERWISE NOTED. CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES.
8. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE, THE CENTERLINE OF COLUMNS, GRID LINES, AND THE FACE OF STUDS UNLESS OTHERWISE NOTED.
9. ALL SYMBOLS AND ABBREVIATIONS USED ON DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS AND COMPLY WITH THE NATIONAL CAD STANDARD VERSION 3.1. IF THE CONTRACTOR HAS QUESTIONS REGARDING SAME, OR THEIR EXACT MEANING, FIRST REFER TO THE NCS 3.1 AND THEN NOTIFY THE ARCHITECT TO REQUEST CLARIFICATION.
10. CONTRACTOR TO COORDINATE INSTALLATION OF ALL ITEMS INDICATED AS OWNER SUPPLIED EQUIPMENT AND FURNISHINGS.
11. CONTRACTOR TO PROVIDE TEMPORARY FACILITIES UTILITIES, AND SUPPORT AS REQUIRED FOR OWNER INSTALLED EQUIPMENT.
12. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO THE STORM DRAIN SYSTEM.
13. ALL EXISTING SIGNS, MARKERS DELINEATORS, ETC., WITHIN THE SITE BOUNDARY SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
14. PROVIDE = FURNISH AND INSTALL.
15. (E) OR EX = EXISTING

DEMOLITION & PATCHING GENERAL NOTES:

A. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
B. EXISTING PLAN CONFIGURATION & BUILDING INFORMATION HAS BEEN PROVIDED BY THE OWNER AND BELIEVED TO REFLECT CURRENT CONDITIONS, CONTRACTOR TO CONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
C. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
D. CONTRACTOR TO COORDINATE EXTENT OF DEMOLITION WORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR PLANS.
E. PROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED AREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS NOTED OTHERWISE.
F. CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH OWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER-OCCUPIED SPACES.
G. CONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT ALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN APPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE ALTERED.
H. PROTECT EXISTING CONSTRUCTION TO REMAIN.
J. PATCH & PREPARE SUBSTRATE TO RECEIVE NEW FINISHES IN ACCORDANCE WITH NEW FINISH MATERIAL MANUFACTURER'S RECOMMENDATIONS.
K. UTILITIES THAT REMAIN WITHIN EXISTING WALLS TO BE DEMOLISHED ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE NEW PLAN CONFIGURATION.
L. LABEL & PACKAGE ALL COMPONENTS OF SALVAGED ITEMS TO BE DELIVERED TO OWNER. COORDINATE LABEL & PACKAGE REQUIREMENTS & STORAGE LOCATIONS WITH OWNER.
M. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST & NOISE CONTAINMENT BARRIERS BETWEEN THE WORK AREA & THE ADJACENT OWNER-OCCUPIED SPACES. CONTRACTOR TO COORDINATE TIMING CONSTRUCTION ACTIVITY WITH OWNER SO AS TO MINIMIZE DISRUPTION TO BUILDING OCCUPANTS.
N. CONTRACTOR TO COORDINATE ALL UTILITY SYSTEM SHUTDOWN ACTIVITIES IN ADVANCE WITH THE OWNER AND MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER-OCCUPIED SPACES.
O. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS ON A DAILY BASIS, COORDINATE MEANS, METHODS & ROUTES AND CONTAMINATION CONTROL PROTOCOLS WITH OWNER.
P. WHERE SELECTIVE DEMOLITION IS REQUIRED ADJACENT TO EXISTING SURFACES TO REMAIN, PATCH AND REPAIR TO MATCH EXISTING SURFACES UNLESS NOTED OTHERWISE.
Q. ALL UTILITY SYSTEMS & OTHER COMPONENTS THAT ARE SCHEDULED FOR DISCONNECTION SHALL BE REMOVED IN THEIR ENTIRETY, "DISCONNECT, CAP & ABANDON IN PLACE"IS NOT ACCEPTABLE UNLESS SPECIFICALLY NOTED OTHERWISE.
R. TESTING, ABATEMENT AND DISPOSAL OF HAZARDOUS MATERIALS: NOT IN CONTRACT. TESTING, ABATEMENT AND DISPOSAL SHALL BE PERFORMED PRIOR TO THE WORK. CONTACT OWNER IMMEDIATELY IF PRESUMED HAZARDOUS MATERIALS ARE DISCOVERED ON SITE.
S. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS AND PERFORM REMOVAL CONTINUOUSLY TO AVOID EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, FRAMING, AND/OR STRUCTURAL SYSTEM.
T. PROVIDE BARRICADES & SAFETY LIGHTS AT WORK AREAS TO DIRECT OCCUPANTS AWAY FROM WORK ACTIVITIES.
U. PROVIDE COVERED PASSAGEWAYS WHERE NECESSARY TO ENSURE SAFE PASSAGE OF PERSONS IN OR NEAR AREAS OF WORK.
V. CONDUCT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, WALKS, ENTRANCES, EXITS, AND OTHER ADJACENT OCCUPIED FACILITIES. DO NOT CLOSE OR OBSTRUCT PRIVATE DRIVES, WALKS OR OTHER OCCUPIED OR USED FACILITIES UNLESS APPROVED IN WRITING. DO NOT CLOSE OR OBSTRUCT PUBLIC THOROUGHFARES OR WALKS UNLESS APPROVED BY AUTHORITIES HAVING JURISDICTION. DO NOT OBSTRUCT EXITS FROM EXISTING FACILITIES WITHOUT APPROVAL OF AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.
W. PROTECT PROPERTY TO REMAIN: PROMPTLY REPAIR DAMAGE CAUSED BY DEMOLITION, AS DIRECTED BY ARCHITECT, AT NO COST TO OWNER, CONDUCT OPERATIONS TO PREVENT DAMAGE BY FALLING DEBRIS OR OTHER CAUSE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AS WELL AS PERSONS, AND PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OF COLLAPSE OF STRUCTURES.
X. PERFORM PRELIMINARY INVESTIGATIONS AS REQUIRED TO ASCERTAIN EXTENT OF WORK. CONDITIONS WHICH WOULD BE APPARENT BY SUCH INVESTIGATION WILL NOT BE ALLOWED AS CAUSE FOR CLAIMS FOR EXTRA COSTS.

SCHEDULE OF ADDITIVE ALTERNATES

BASE BID:
ALL OF THE WORK INDICATED ON THE CONTRACT DOCUMENTS EXCEPT THAT INDICATED IN THE ALTERNATES BELOW.

ADD ALT NO.1 WINDOW REPLACEMENT
DEMOLISH EXISTING WINDOW UNITS AS INDICATED ON THE DRAWINGS. PROVIDE NEW WINDOWS AS INIDICATED BY THE DRAWINGS AND THE SPECIFICATIONS.

ADD ALT NO. 2 NOT USED

ADD ALT NO. 3: QUICKSHIP SWITCHBOARD MDP
CONTRACTOR SHALL PROVIDE ALL COSTS ASSOCIATED TO THE SHIPMENT, DELIERY, AND INSTALLATION OF NEW SWITCHBOARD "MDP" NOT TO EXCEED 36-WEEKS AFTER RELEASE OF ORDER.

HISTORIC PRESERVATION GENERAL NOTES

RISD ADMINISTRATION & EDUCATIONAL SERVICE CENTER (AESC) FORMERLY NORTH JUNIOR HIGH SCHOOL IS LISTED TO THE STATE REGISTER AS "SR#1006" AND IS LISTED ON THE NATIONAL REGISTER.

WORK SHOULD CONFORM TO THE SECRETARY OF INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES.

WORK TO THIS HISTORIC PROPERTY IS BEING ACCOMPLISHED UNDER THE REHABILITATION STANDARD.

IDENTIFIED HISTORICAL ELEMENTS TO BE PROTECTED INCLUDE:

BUILDING EXTERIOR CHARACTER-DEFINING FEATURES

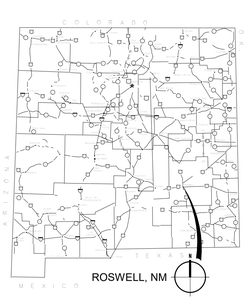
A. EXTERIOR WINDOW REPLACEMENT - ADDITIVE ALTERNATE NO.1
B. SELECTIVE MASONRY RESTORATION: ADDITIVE ALTERNATE

HISTORIC PRESERVATION REQUIREMENTS

1. AESC IS LISTED TO THE STATE REGISTER AS SR#1006 AND IT IS LISTED ON THE NATIONAL REGISTER. WORK SHALL CONFORM TO THE SECRETARY OF THE INTERIOR STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES.
2. WORK TO THIS HISTORIC PROPERTY IS BEING ACCOMPLISHED UNDER THE REHABILITATION STANDARD.
3. APPLICABLE NPS HISTORIC PRESERVATION BRIEFS:
BRIEF 02– REPOINTING MORTAR JOINTS IN HISTORIC MASONRY BUILDINGS
BRIEF 47 – MAINTAINING THE EXTERIOR OF SMALL AND MEDIUM SIZE HISTORIC BUILDINGS
4. MECHANICAL DEMOLITION:
A. PROTECT HISTORIC FABRIC DURING DEMOLITION WORK. CONFIRM ANY QUESTIONS ABOUT HISTORIC FABRIC REMOVAL WITH ARCHITECT
B. NO EXPOSED MECHANICAL INSTALLATIONS SHALL BE INSTALLED UNLESS EXPLICITLY SHOWN BY ARCHITECTURAL DRAWINGS INCLUDING BUT NOT LIMITED TO CONDENSATE LINES, RTUS, CONDENSING UNITS, DUCTWORK, GAS LINES, AND FIRE SPRINKLER LINES.
5. ELECTRICAL DEMOLITION:
A. PROTECT HISTORIC FABRIC DURING DEMOLITION WORK. CONFIRM ANY QUESTIONS ABOUT HISTORIC FABRIC REMOVAL WITH ARCHITECT
B. NO EXPOSED ELECTRICAL INSTALLATIONS SHALL BE INSTALLED UNLESS EXPLICITLY SHOWN BY ARCHITECTURAL DRAWINGS INCLUDING BUT NOT LIMITED TO EXPOSED CONDUIT, J-BOXES, PANEL BOARDS, CABINETS AND ENTRANCES.

PROJECT LOCATION

PROJECT LOCATION



INDEX OF DRAWINGS

GENERAL

G-001	COVER
G-002	CODE REVIEW
G-003	CONSTRUCTION PHASING DIAGRAM
G-004	CONSTRUCTION SEQUENCE PLANS

CIVIL

C-101	SURVEY

STRUCTURAL

S-101	FIRST FLOOR FRAMING PLAN
S-102	SECOND FLOOR FRAMING PLAN
S-103	THIRD FLOOR & LOW ROOF FRAMING PLAN
S-104	HIGH ROOF FRAMING PLAN
S-401	FRAMING DETAILS

ARCHITECTURAL

AS101	SITE PLAN
AS501	SITE DETAILS
AD101	DEMO & PATCHING PLAN - FIRST FLOOR
AD102	DEMO & PATCHING PLAN - SECOND FLOOR
AD103	DEMO & PATCHING PLAN - THIRD FLOOR & FOURTH FLOOR
AD104	DEMO & PATCHING PLAN - ROOF
AD111	DEMO & PATCHING RCP - FIRST FLOOR
AD112	DEMO & PATCHING RCP - SECOND FLOOR
AD113	DEMO & PATCHING RCP - THIRD & FOURTH FLOOR
AD201	DEMO & PATCHING ELEVATIONS
AD202	DEMO & PATCHING ELEVATIONS
AD203	DEMO & PATCHING COURTYARD ELEVATIONS
A-101	FIRST FLOOR PLAN
A-102	SECOND FLOOR PLAN
A-103	THIRD FLOOR PLAN & FOURTH
A-104	ROOF PLAN
A-111	FIRST FLOOR REFLECTED CEILING PLAN
A-112	SECOND FLOOR REFLECTED CEILING PLAN
A-113	THIRD & FOURTH FLOOR REFLECTED CEILING PLANS
A-121	FIRST FLOOR COORDINATION RCP
A-122	SECOND FLOOR COORDINATION RCP
A-123	THIRD & FOURTH FLOOR COORDINATION RCPS
A-201	ELEVATIONS
A-202	ELEVATIONS
A-203	COURTYARD ELEVATIONS
A-301	BUILDING SECTIONS
A-401	ENLARGED PLANS
A-501	WINDOW DETAILS
A-502	DETAILS
A-503	DETAILS
A-504	ROOF DETAILS
A-505	ROOF DETAILS
A-506	SHAFT DETAILS
A-601	ROOM FINISH SCHEDULE
A-602	DOOR AND WINDOW SCHEDULE AND ELEVATIONS

MECHANICAL

MD-101	FIRST FLOOR MECHANICAL DEMOLITION PLAN
MD-102	SECOND FLOOR MECHANICAL DEMOLITION PLAN
MD-103	THIRD & FOURTH FLOOR MECHANICAL DEMOLITION PLAN
MD-104	ROOF MECHANICAL DEMOLITION PLAN
MS-101	MECHANICAL SITE PLAN
M-101	FIRST FLOOR HVAC PLAN
M-102	SECOND FLOOR HVAC PLAN
M-103	THIRD & FOURTH FLOOR HVAC PLAN
M-104	HVAC ROOF PLAN
M-201	FIRST FLOOR PIPING PLAN
M-202	SECOND FLOOR PIPING PLAN
M-203	THIRD & FOURTH FLOOR PIPING PLAN
M-401	FIRST FLOOR MECHANICAL ROOM ENLARGED PLAN
M-402	CHILLED & HEATING WATER SYSTEM PIPING SCHEMATIC
M-403	OUTSIDE AIR SYSTEM SCHEMATIC
M-404	CONDENSATE DRAIN PIPING ISOMETRIC DIAGRAM
M-405	RESTROOM EXHAUST AIR SYSTEM SCHEMATIC
M-501	MECHANICAL DETAILS
M-601	GENERAL NOTES, LEGEND & SCHEDULE
M-602	MECHANICAL EQUIPMENT SCHEDULES
M-701	MECHANICAL CONTROLS
M-702	MECHANICAL CONTROLS

ELECTRICAL

E-001	ELECTRICAL GENERAL NOTES, LEGEND, & SCHEDULES
ED-101	FIRST FLOOR ELECTRICAL DEMOLITION PLAN
ED-102	SECOND FLOOR ELECTRICAL DEMOLITION PLAN
ED-103	THIRD & FOURTH FLOOR ELECTRICAL DEMOLITION PLAN
ED-104	ROOF ELECTRICAL DEMOLITION PLAN
E-101	FIRST FLOOR LIGHTING PLAN
E-102	SECOND FLOOR LIGHTING PLAN
E-103	THIRD & FOURTH FLOOR LIGHTING PLAN
E-201	FIRST FLOOR POWER PLAN
E-202	SECOND FLOOR POWER PLAN
E-203	THIRD & FOURTH FLOOR POWER PLAN
E-204	POWER ROOF PLAN
E-600	RISER DIAGRAM
E-601	PANEL SCHEDULE

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ROSWELL INDEPENDENT SCHOOL DISTRICT
AESC HVAC UPGRADES

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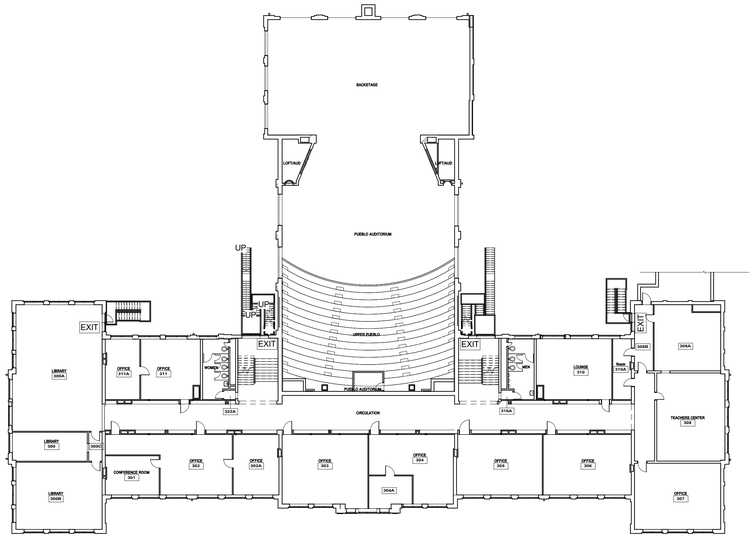


C1 CODE PLAN - THIRD FLOOR
3/64" = 1'-0"

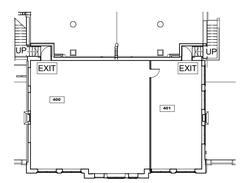
LIFE SAFETY PLAN LEGEND

EXIT EXISTING BUILDING EXIT

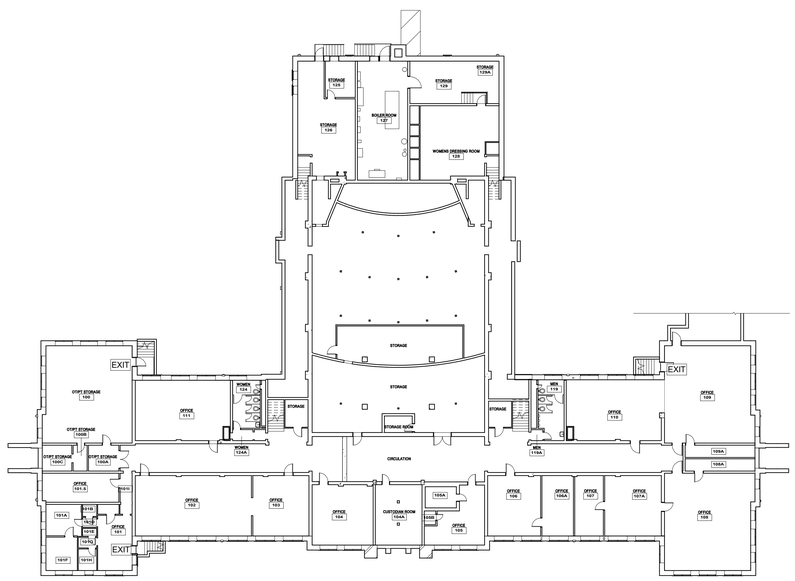
LIFE SAFETY NOTES

NO CHANGES TO EXISTING FIRE ALARM SYSTEM ARE PROPOSED.

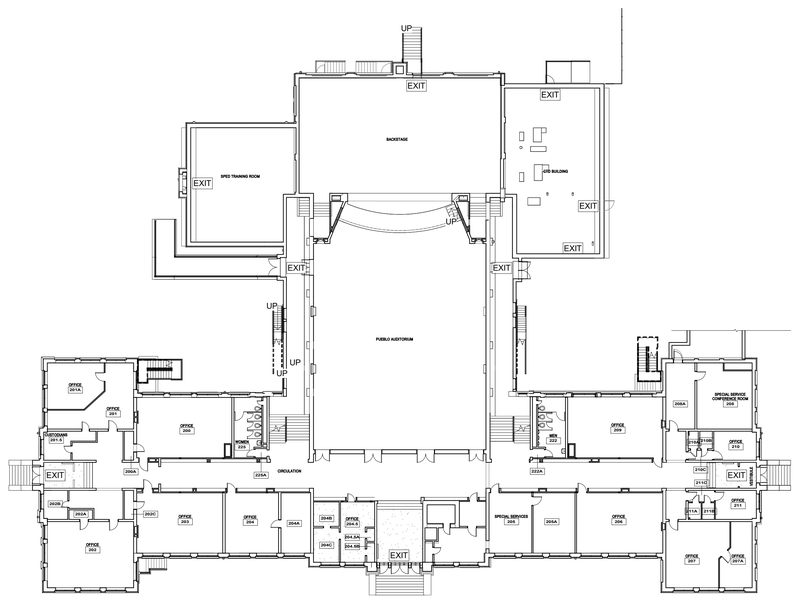
NO CHANGES TO EXISTING WALL, DOOR, OR WINDOW CONFIGURATION ARE PROPOSED.



C3 CODE PLAN - FOURTH FLOOR
3/64" = 1'-0"



A1 CODE PLAN - FIRST FLOOR
3/64" = 1'-0"



A3 CODE PLAN - SECOND FLOOR
3/64" = 1'-0"

GENERAL SHEET NOTES

A. NONE

PROJECT INFORMATION

ROSWELL INDEPENDENT SCHOOL DISTRICT AESC MECHANICAL, LIGHTING, CEILING, ROOFING, AND WINDOW UPGRADES. PROJECT IS LOCATED AT 300 N. KENTUCKY, ROSWELL, NM 88201.

APPLICABLE CODES

NEW MEXICO ADMINISTRATIVE CODE
2015 NEW MEXICO EXISTING BUILDING CODE (2015 I.E.E.C)
2015 INTERNATIONAL BUILDING CODE (2015 IBC) W/ NM AMENDMENTS
2015 NEW MEXICO PLUMBING CODE (2015 IPC)
2015 NEW MEXICO MECHANICAL CODE (2015 IMC)
2017 NEW MEXICO ELECTRICAL CODE W/ NM AMENDENTS (2017 NEC)
2015 INTERNATIONAL BUILDING CODE (2015 IBC) W/ NM AMENDMENTS
2018 INTERNATIONAL ENERGY CONSERVATION CODE W/ NM AMENDMENTS
NFPA 101 - LIFE SAFETY CODE

OCCUPANCY GROUP

EXISTING OCCUPANCY GROUP "B" BUSINESS (IBC SECTION 304.1) & ASSEMBLY GROUP "A-1" (IBC SECTION 303.2) - NO CHANGE TO OCCUPANCY GROUP PROPOSED.

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

NONE PER CHAPTER 4

IEBC CLASSIFICATION

EXISTING RENOVATED SPACES: ALTERATION-LEVEL 1; REMOVAL AND REPLACEMENT OR THE COVERING OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES USING NEW MATERIALS, ELEMENTS, EQUIPMENT, OR FIXTURES THAT SERVE THE SAME PURPOSE. - SECTION 503
BUILDING QUALIFIES UNDER CHAPTER 12 IEBC "HISTORIC BUILDINGS" - BUILDING IS LISTED ON THE STATE & NATIONAL REGISTERS OF HISTORIC PLACES

CONSTRUCTION TYPE

TYPE VB - SECTION 602.5

ALLOWABLE BUILDING AREAS & STORIES

NO CHANGE TO BUILDING AREA PROPOSED.

FIRE RESISTANCE RATING REQUIREMENTS

TYPE VB
PRIMARY STRUCTURAL FRAME - 0 HR. TABLE 601
BEARING WALLS - 0 HR. TABLE 601
EXTERIOR WALLS-NONBEARING - 0 HR. TABLE 602 (>10 FT REQUIRED)
INTERIOR WALLS-NONBEARING - 0 HR. TABLE 601
FLOOR CONSTRUCTION AND SECONDARY MEMBERS - 0 HR. TABLE 601
ROOF CONSTRUCTION AND SECONDARY MEMBERS - 0 HR. TABLE 601

OCCUPANT LOAD

TABLE 1004.1.2
NO CHANGE TO OCCUPANT LOAD, COMMON PATH OF EGRESS TRAVEL, OR EXITS PROPOSED.

OCCUPANCY SEPARATION

TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES - NO CHANGE IN OCCUPANCIES OR OCCUPANCY SEPARATIONS PROPOSED.

EXIT ACCESS TRAVEL DISTANCE

MAX ALLOWED = 200 FT, MAXIMUM NOT EXCEEDED - TABLE 1017.2
NO CHANGES TO EXISTING BUILDING CONFIGURATION PROPOSED.

EXIT WIDTHS

REQUIRED - SECTION 1005.1
NO CHANGES TO STAIRWAYS OR OTHER EGRESS COMPONENTS PROPOSED.

DEAD END CORRIDORS

MAX DEAD END CORRIDOR LENGTH 20 FT - SECTION 1020.4 - NO CHANGE TO EXISTING BUILDING CONFIGURATION PROPOSED.

PLUMBING FIXTURES

TABLE 2902.1 - NO CHANGES TO PLUMBING FIXTURES PROPOSED.

ACCESSIBILITY

IBC CHAPTER 11 & ANSI A117.1 - NO CHANGES TO ACCESSIBILITY PROPOSED.

PORTABLE FIRE EXTINGUISHERS

IBC TABLE 906.3(1) LIGHT HAZARD; 1 PER 3,000 SF; 75 FT MAX TRAVEL DISTANCE - NO CHANGE PROPOSED EXISTING FIRE EXTIGUISHER LOCATIONS.

SEISMIC SITE CLASS

SITE CLASS D - IBC 1613.3.2 DEFAULT

ACCESSIBLE ROUTE

SECTION 1104.3.1 - NO CHANGE TO ACCESSIBLE ROUTE PROPOSED.

FIRE PROTECTION

I.E.B.C. SECTION 703

AUTOMATIC SPRINKLER SYSTEMS
EXISTING BUILDING IS NON-SPRINKLERED (NS) EXCEPT THE AREAS UNDER THE LOWER LEVEL AUDITORIUM SEATING.

BOILER ROOM FIRE PROTECTION REQUIREMENTS
ROOMS WITH BOILERS (IBC TABLE 509 INCIDENTAL USES)

ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 10 PSI AND 10 HORSEPOWER

1 HR RATED SEPARATION PROVIDED

FIRE ALARM
EXISTING FIRE ALARM SYSTEM TO REMAIN EXCEPT AS REQUIRED BY MODIFICATION PROPOSED BY THIS PROJECT.

SHAFT ENCLOSURES - FIRE RESISTANCE RATING
IBC SECTION 713.4

NEW CHASE AND SHAFT OPENINGS ARE REQUIRED TO BE CONSTRUCTED. NEW CHASE AND SHAFT OPENINGS SHALL PROVIDE PROTECTION AS FOLLOWS:
WHERE CONNECTING FOUR STORIES OR MORE: 2HR FIRE RESISTANCE RATING
WHERE CONNECTING LESS THAN FOUR STORIES: 1HR FIRE RESISTANCE RATING

ENERGY CODE

I.E.B.C. SECTION 708

CLIMATE ZONE 3B - IECC TABLE C301.1

	REQUIRED	PROVIDED
OPAQUE ELEMENTS - IECC TABLE C402.1.3		
ROOF - INSULATION ENTIRELY ABOVE DECK	R-25 CI	R-25 CI
WALL - METAL FRAMED	R-13 + R7.5CI	NO CHANGE PROPOSED
WALL - MASS	R-7.6CI	NO CHANGE PROPOSED
FLOOR - UNHEATED SLABS	NO REQUIREMENT	NO CHANGE PROPOSED
OPAQUE DOORS	R-4.75	NO CHANGE PROPOSED
FENESTRATION - IECC TABLE C402.4		
FIXED FENESTRATION	U-0.46	U-0.46
OPERABLE FENESTRATION	U-0.60	U-0.60
ENTRANCE DOORS	U-0.77	NO CHANGE PROPOSED
SHGC: PF<.2 - GLAZING - S E W	0.25	0.25
SHGC: PF<.2 - GLAZING - N	0.33	0.33
SKYLIGHTS	U- 55/SHGC-0.35	NO CHANGE PROPOSED

NOTE: ABOVE VALUES ARE PER THE 2018 NEW MEXICO ENERGY CONSERVATION CODE.

"EXCEPT AS SPECIFIED IN THIS CHAPTER, THIS CODE SHALL NOT BE USED TO REQUIRE THE REMOVAL, *ALTERATION* OR ABANDONMENT OF, NOT PREVENT THE CONTINUED USE AND MAINTENANCE OF, AN EXISTING *BUILDING* OR *BUILDING* SYSTEM LAWFULLY IN EXISTENCE AT THE TIME OF ADOPTION OF THIS CODE." - IECC C501.2

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STATE OF NEW MEXICO RAIMUNDO MCCLAIN No. 004757 REGISTERED ARCHITECT JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JBS
Checked By	RM

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE
CODE REVIEW

SHEET
G-002

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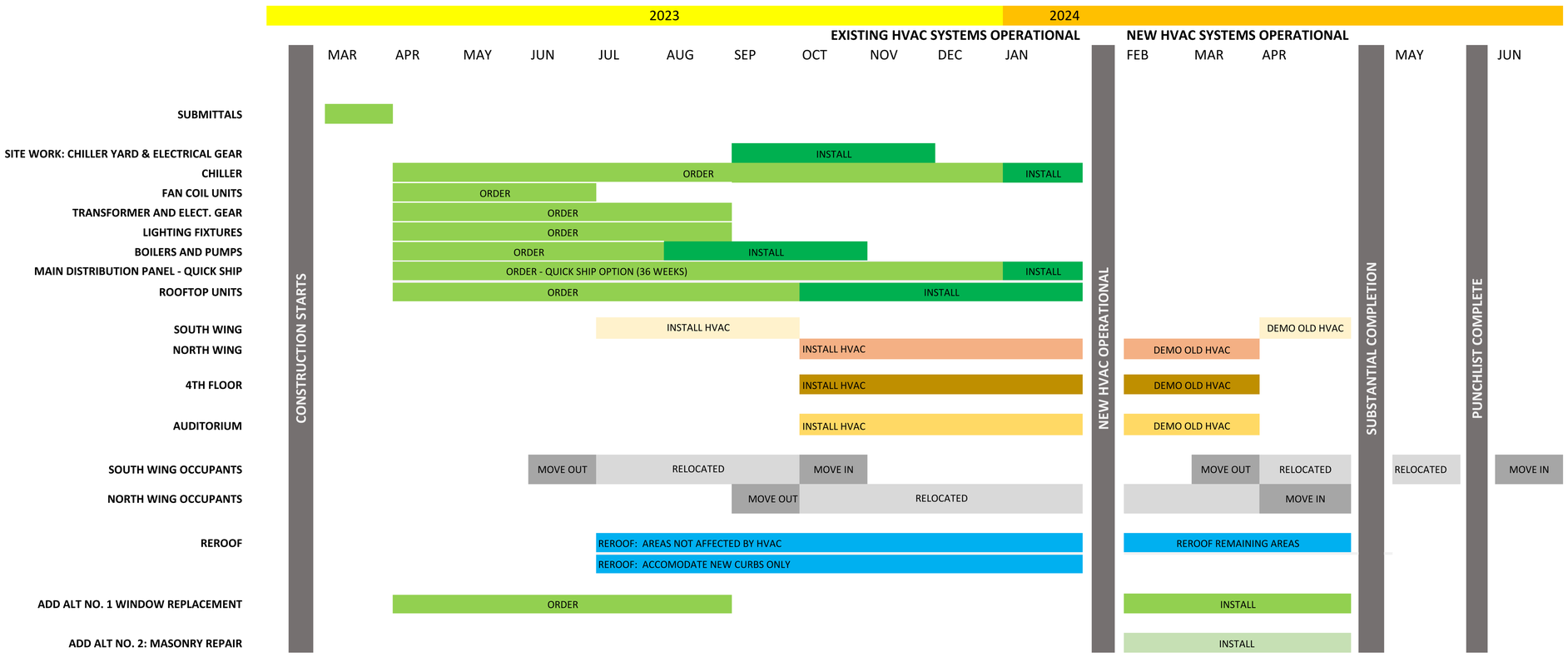
GENERAL SHEET NOTES

A. CONSTRUCTION PHASING DIAGRAM SUGGEST DURATIONS WHICH REQUIRE REVIEW & CONFIRMATION BY THE GENERAL CONTRACTOR.

RISD AESC HVAC UPGRADES -
THE WORK OF THIS PROJECT REQUIRES THE CONTINUED USE OF THE BUILDING BY THE OWNER. THIS DIAGRAM IS PROVIDED BASED ON THE OWNER'S SCHEDULE REQUIREMENTS AND SHALL NOT BE MODIFIED UNLESS AGREED TO BY THE OWNER. SEE ALSO GENERAL NOTE A.

RISD AESC HVAC UPGRADES - PHASING DIAGRAM



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STATE OF NEW MEXICO
RAIMUNDO MCCLAIN
No. 004757
REGISTERED ARCHITECT
JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JBS
Checked By	RM

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CONSTRUCTION PHASING DIAGRAM

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G-003

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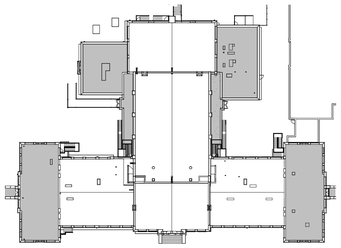
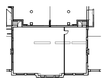
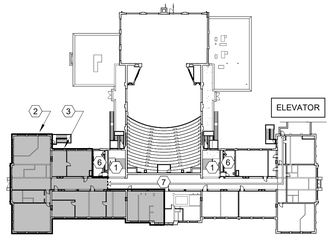


E1 SEQUENCE PLAN - ROOF
NTS



D1 SEQUENCE PLAN - FOURTH FLOOR
NTS



C1 SEQUENCE PLAN - THIRD FLOOR
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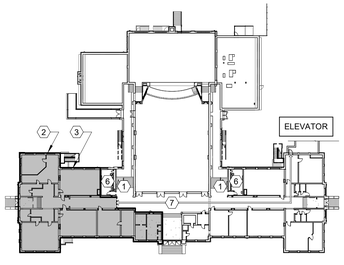

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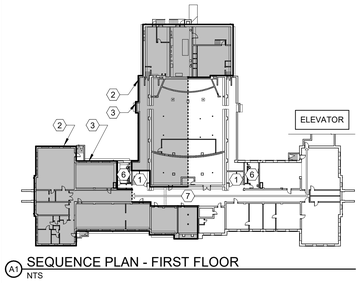
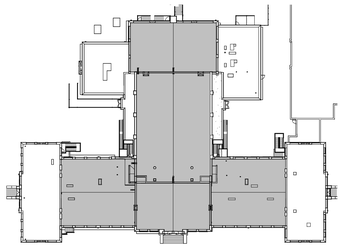


A1 SEQUENCE PLAN - FIRST FLOOR
NTS

SEQUENCE 1

DESCRIPTION
- INSTALLATION OF HVAC IN SOUTH WING
- RE-ROOF: AREAS NOT AFFECTED BY NEW HVAC
- RE-ROOF: INSTAL NEW CURBS ONLY



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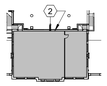

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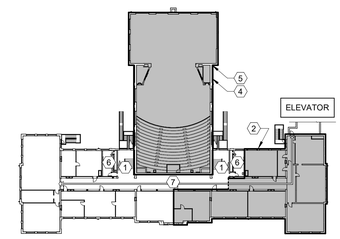

C2 SEQUENCE PLAN - THIRD FLOOR
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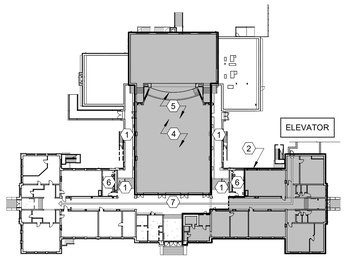

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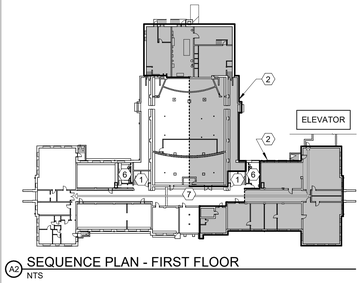
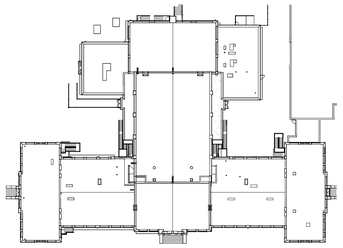


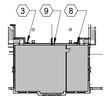
A2 SEQUENCE PLAN - FIRST FLOOR
NTS

SEQUENCE 2

DESCRIPTION
- INSTALLATION OF HVAC IN NORTH WING
- INSTALLATION OF HVAC IN AUDITORIUM
- INSTALLATION OF HVAC IN FOURTH FLOOR
- RE-ROOF: REMAINING AREAS



E4 SEQUENCE PLAN - ROOF
NTS



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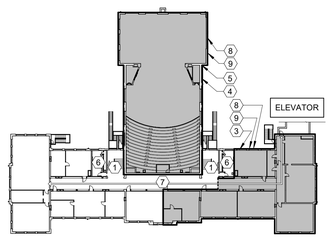

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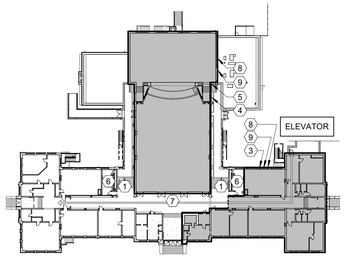

B4 SEQUENCE PLAN - SECOND FLOOR
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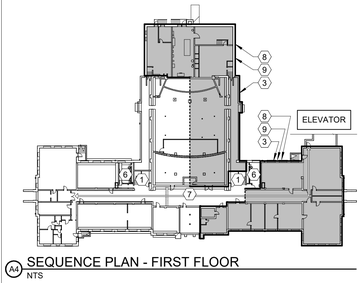
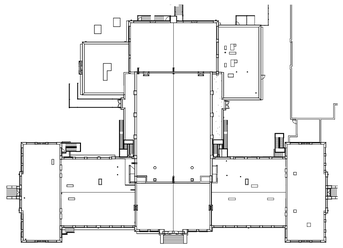


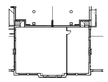
A4 SEQUENCE PLAN - FIRST FLOOR
NTS

SEQUENCE 3

DESCRIPTION
- DEMO OF EXISTING HVAC IN NORTH WING
- DEMO OF EXISTING HVAC IN AUDITORIUM
- DEMO OF EXISTING HVAC IN FOURTH FLOOR
- ADD ALT NO. 1 WINDOW REPLACEMENT IN NORTH WING
- ADD ALT NO. 2 MASONRY REPAIR IN NORTH WING



E5 SEQUENCE PLAN - ROOF
NTS



D5 SEQUENCE PLAN - FOURTH FLOOR
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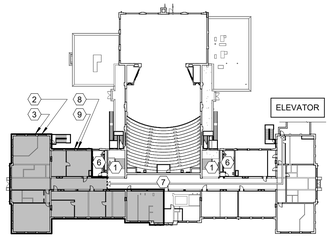

C5 SEQUENCE PLAN - THIRD FLOOR
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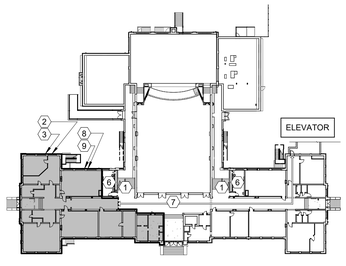
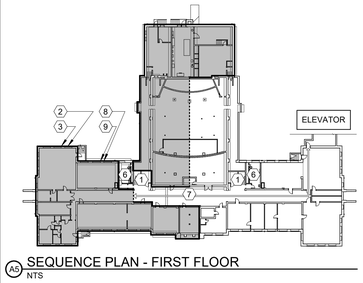


B5 SEQUENCE PLAN - SECOND FLOOR
NTS



A5 SEQUENCE PLAN - FIRST FLOOR
NTS

SEQUENCE 4

DESCRIPTION
- DEMO OF EXISTING HVAC IN SOUTH WING
- DEMO OF EXISTING HVAC IN FOURTH FLOOR
- ADD ALT NO. 1 WINDOW REPLACEMENT IN SOUTH WING
- ADD ALT NO. 2 MASONRY REPAIR IN SOUTH WING

GENERAL SHEET NOTES

A. ACCESSIBLE PATH BETWEEN ELEVATOR & OCCUPIED AREAS OF THE BUILDING TO BE MAINTAINED FOR THE DURATION OF CONSTRUCTION.

B. PROTECT EXISTING BUILDING ELEMENTS NOT SUBJECT TO ALTERATION BY THE WORK INCLUDING ELEMENTS SUCH AS BUT NOT LIMITED TO FLOORS, WALLS, WOODWORK, LOCKERS, CEILINGS, LIGHTING, HARDWARE, STAIRWAYS, AND CABINETS / CASEWORK / DISPLAY CASES.

C. CONSTRUCTION SEQUENCE PLANS SUGGEST DURATIONS WHICH REQUIRE REVIEW & CONFIRMATION BY THE GENERAL CONTRACTOR.

D. MAINTAIN CLEAR EGRESS PATHWAYS FOR BUILDING OCCUPANTS AT ALL TIMES.

E. CONTRACTOR TO MOVE EXISTING BUILDING CONTENTS AS REQUIRED TO PERFORM THE WORK INDICATED PROTECTED FROM DAMAGE AND RETURNED TO THE ORIGINAL LOCATION AT THE COMPLETION OF THE WORK.

SHEET KEYNOTES

1. THIS AREA SHALL BE ACCESSIBLE TO BUILDING OCCUPANTS. COORDINATE CONSTRUCTION WITH OWNER REPRESENTATIVE
2. CONTRACTOR TO MOVE FURNITURE OUT OF ENTIRE SEQUENCE AREA PRIOR RO COMMENCEMENT OF SEQUENCE WORK
3. CONTRACTOR TO MOVE FURNITURE BACK IN TO ENTIRE SEQUENCE AREA ONCE SEQUENCE WORK IS COMPLETE
4. PROTECT EXISTING INSTALLATION IN THIS AREA INCLUDING, BUT NOT LIMITED TO, FLOORING, FIXED SEATING, CEILINGS, WALLS, & LIGHTING.
5. PROVIDE SCAFFOLDING AS NECESSARY FOR THE WORK IN CEILING AREAS.
6. SEQUENCE SHALL SHUT DOWN 1 RESTRROM AT A TIME ONLY. COORDINATE SHUT DOWNS WITH OWNER.
7. MINIMAL WORK IN THIS AREA - KEEP AREA OPEN TO BUILDING OCCUPANTS. COORDINATE ACCESS WITH OWNER
8. PROVIDE SCAFFOLDING AS NECCESSARY FOR ADDITIVE ALTERNATE NO. 1
9. PROVIDE SCAFFOLDING AS NECCESSARY FOR MASONRY REPAIR ALLOWANCE - SEE ROOF PLAN.

LEGEND

SEQUENCE AREA

DUST CONTROL PARTITIONS

ACCESSIBLE PATH TO ELEVATOR
TO BE MAINTAINED FOR THE DURATION OF CONSTRUCTION

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STATE OF NEW MEXICO
RAIMUNDO MCCLAIN
No. 004757
REGISTERED ARCHITECT
JANUARY 20, 2023

PROJECT

AESC HVAC UPGRADES

OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

300 N. KENTUCKY, ROSWELL, NM 88201

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Checked By	RM

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CONSTRUCTION SEQUENCE PLANS

SHEET

G-004

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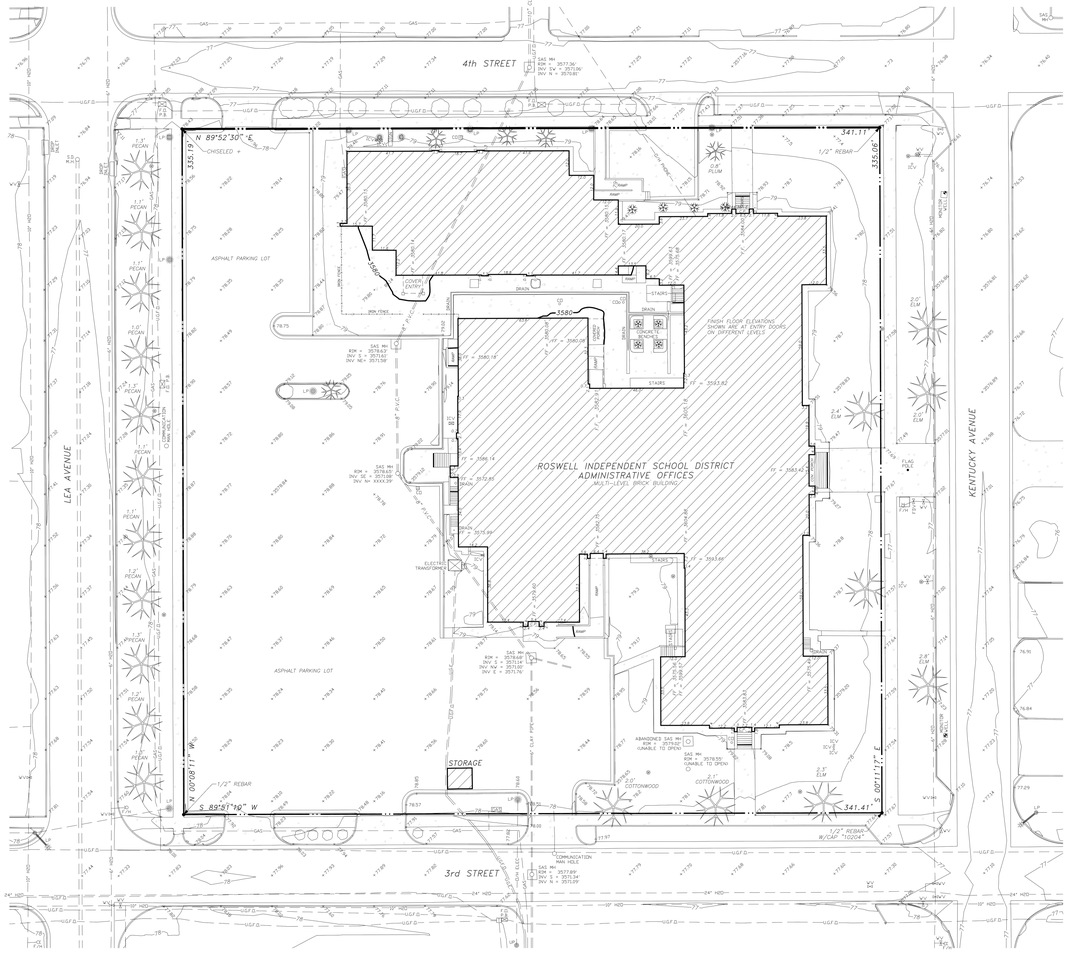
GENERAL SHEET NOTES

A. NONE

R.I.S.D. ADMINISTRATIVE BUILDING DESIGN SURVEY

ROSWELL — CHAVES COUNTY — NEW MEXICO



DECEMBER 23, 2022

LEGEND

IC V	IRRIGATION CONTROL VALVE
F O P B	FIBER OPTIC PULL BOX
LP	LIGHT POLE
LP	LIGHT POLE
UP	UTILITY POLE
T	TELEPHONE RISER
W V	WATER VALVE
SAS MH	SANITARY SEWER MAN HOLE
S D MH	STORM DRAIN MAN HOLE
	WATER METER
F H	FIRE HYDRANT
—GAS—	UNDERGROUND GAS LINE
—E G E—	UNDERGROUND ELECTRIC LINE
—U G F O—	UNDERGROUND FIBER OPTIC LINE
—WB—	UNDERGROUND WATER LINE
—77—	CONTOUR LINE
3580	INDEX CONTOUR LINE
+ 78.60	SPOT ELEVATION
	BUSH/SHRUB
	TREE
	CONCRETE

SCALE: 1" = 30'

30 0 30 60 90 Feet

A2 SITE SURVEY
1" = 30'-0"

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PROJECT

ROSWELL INDEPENDENT SCHOOL DISTRICT AESC HVAC UPGRADES

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SURVEY

C-101

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GENERAL STRUCTURAL NOTES

1. Codes and Manuals
   A. International Building Code, 2018 Edition
   B. International Existing Building Code, 2018 Edition
   C. AISC Manual of Steel Construction 9th Edition
   D. AITC Timber Construction Manual, 5th Edition
   E. National Design Specification Wood Construction, 2018 Edition

2. Design Loads:
   A. Vertical
      1. Roof live load = 20 psf
      2. Classroom floor live load = 40 psf
      3. Corridors above first floor = 80 psf
      4. First floor corridors = 100 psf
   B. Horizontal:
      1. Seismic*
         a. Site Class D
         b. Importance Factor = 1.0
      2. Wind*
         a. Ultimate Wind Speed = 115 mph
         b. Importance Factor = 1.0
         c. *Allowable 1/3 stress increase for combined gravity and lateral loading

3. General
   A. The contractor shall verify all dimensions in the field.
   B. The contractor shall be responsible for providing safe and adequate shoring for all parts of the structure during construction.
4. Materials
   A. Wood Framing
      1. Notching of any structural member in the field is prohibited.
      2. All sawn lumber shall be #2 Spruce-Pine-Fir unless noted otherwise on the drawings.
      3. Manufactured Wood Products
         a. Prefabricated wood joists and structural composite lumber shall be manufactured by an approved fabricator.
         b. All products shall be identified by a stamp indicating the product type and grade, CABO NER report number, and the independent inspection agency logo and evaluation report number.
         c. Approved Manufacturers:
            1) Boise-Cascade Corp, Boise, Idaho
            2) Truss Joist Corp, Boise Idaho
            3) Louisiana Pacific Corp, Portland, Oregon
            4) ALTERNATES and/or EQUAL products will only be allowed if written approval is obtained from both the engineer and the architect.
      4. Laminated Veneer Lumber (LVL)
         a. LVL shall be 1 ¾" 1.8E MICROLLAM LVL manufactured by "I LEVEL".
         b. ALTERNATES AND/OR EQUAL products will only be allowed if written approval is obtained from both the engineer and architect.
      5. Wood Sheathing
         a. Wood sheathing shall be APA rated.
         b. See plan for sheathing thickness and nailing pattern.
      6. Connections
         a. Joist hangers shall be by Simpson Co or equal with connections installed according to manufacturer's recommendations.
         b. Nailing shall be in accordance with the following schedule unless otherwise noted. Common nails are to be used except where otherwise noted.

CONNECTION	NAILING (1)
1. Joist to sill or girder, toenail	3-8d
2. Bridging to joist, toenail each end	2-8d
5. Sole plate to joist or blocking, face nail	16d at 16" oc
6. Top plate to stud, end nail	2-16d
7. Stud to sole plate	4-8d, toenail or 2-16d, end nail
8. Double studs, face nail	16d at 24" oc
9. Doubled top plates, face nail	16d at 16" oc
10. Top plates, lap and intersections, face nail	2-16d
11. Continuous header, two pieces	16d at 16" oc along each edge
12. Ceiling joists to plate, toenail	3-8d
13. Continuous header to stud, toenail	4-8d
14. Ceiling joists, laps over partitions, face nail	3-16d
15. Ceiling joists to parallel rafters, face nail	3-16d
16. Rafter to plate, toenail	3-8d
17. Built-up corner studs	16d at 24" oc
18. APA rated sheathing	2-16d as shown on the plans

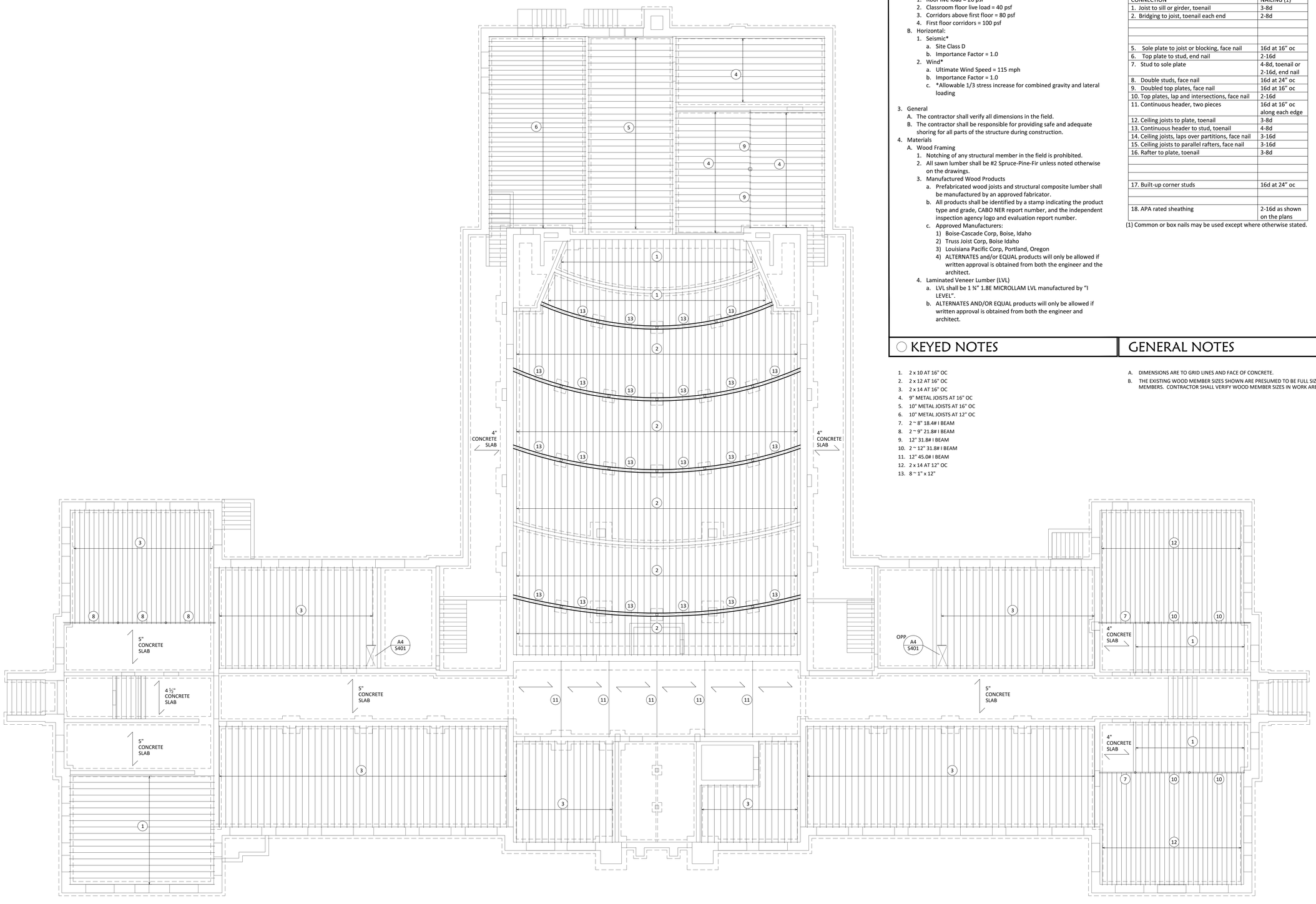
(1) Common or box nails may be used except where otherwise stated.

KEYED NOTES

1. 2 x 10 AT 16" OC
2. 2 x 12 AT 16" OC
3. 2 x 14 AT 16" OC
4. 9" METAL JOISTS AT 16" OC
5. 10" METAL JOISTS AT 16" OC
6. 10" METAL JOISTS AT 12" OC
7. 2 ~ 8" 18.4# I BEAM
8. 2 ~ 9" 21.8# I BEAM
9. 12" 31.8# I BEAM
10. 2 ~ 12" 31.8# I BEAM
11. 12" 45.0# I BEAM
12. 2 x 14 AT 12" OC
13. 8 ~ 1" x 12"

GENERAL NOTES

A. DIMENSIONS ARE TO GRID LINES AND FACE OF CONCRETE.
B. THE EXISTING WOOD MEMBER SIZES SHOWN ARE PRESUMED TO BE FULL SIZE MEMBERS. CONTRACTOR SHALL VERIFY WOOD MEMBER SIZES IN WORK AREAS.



A1 FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

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1776 Montano Rd. NW, STE. 24
Los Ranchos, New Mexico 87107

DONALD R. MACCORNACK, NEW MEXICO, 8838, REGISTERED PROFESSIONAL ENGINEER, 1-18-23

PROJECT
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Checked By	DM

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GENERAL STRUCTURAL NOTES
FIRST FLOOR FRAMING PLAN

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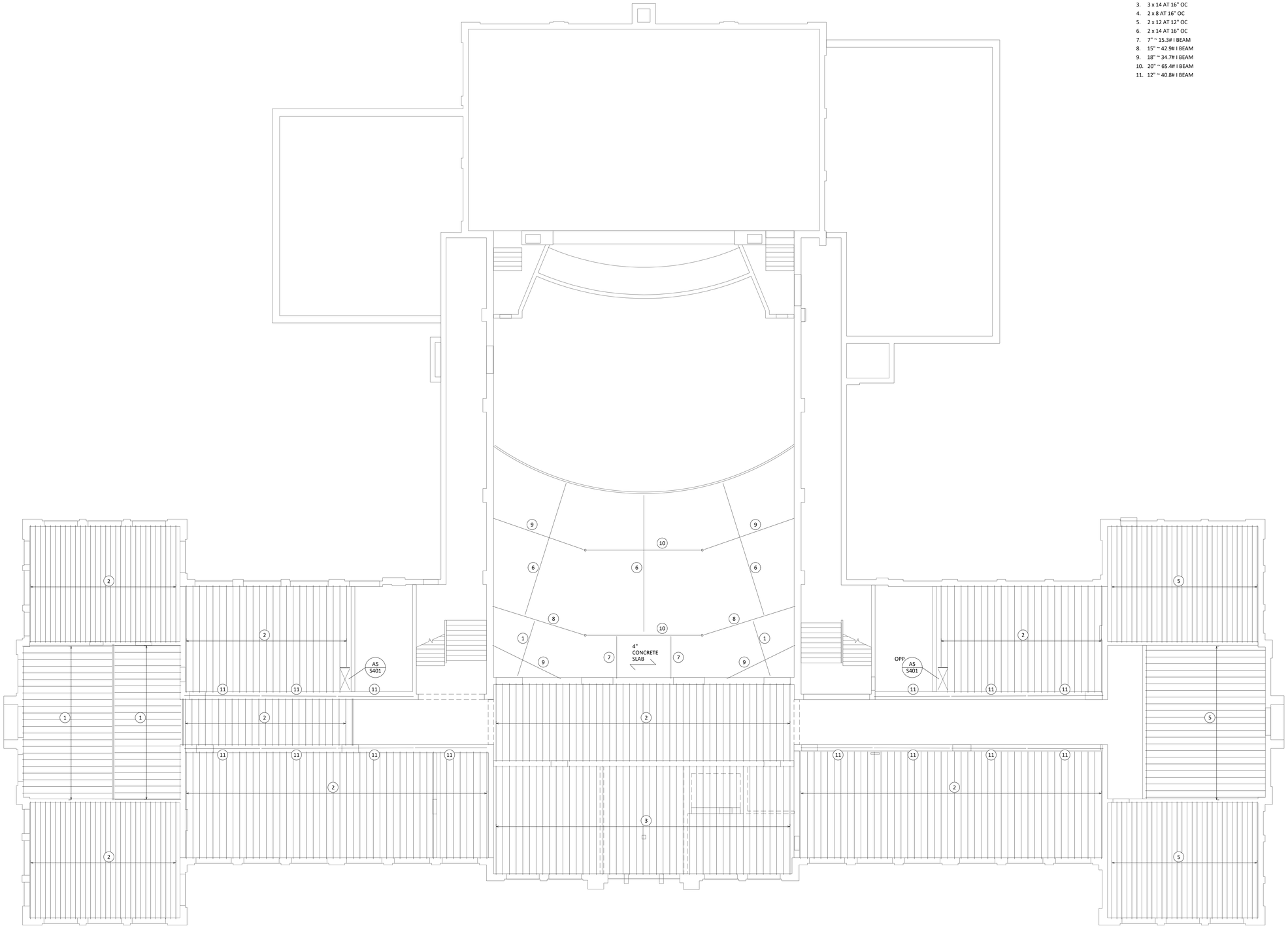
S-101



A1 SECOND FLOOR FRAMING PLAN
1/8" = 1'-0"

GENERAL NOTES

A. DIMENSIONS ARE TO GRID LINES AND FACE OF CONCRETE.
B. THE EXISTING WOOD MEMBER SIZES SHOWN ARE PRESUMED TO BE FULL SIZE MEMBERS. CONTRACTOR SHALL VERIFY WOOD MEMBER SIZES IN WORK AREAS.

KEYED NOTES

1. 2 x 10 AT 16" OC
2. 2 x 12 AT 16" OC
3. 3 x 14 AT 16" OC
4. 2 x 8 AT 16" OC
5. 2 x 12 AT 12" OC
6. 2 x 14 AT 16" OC
7. 7" ~ 15.3# I BEAM
8. 15" ~ 42.9# I BEAM
9. 18" ~ 34.7# I BEAM
10. 20" ~ 65.4# I BEAM
11. 12" ~ 40.8# I BEAM

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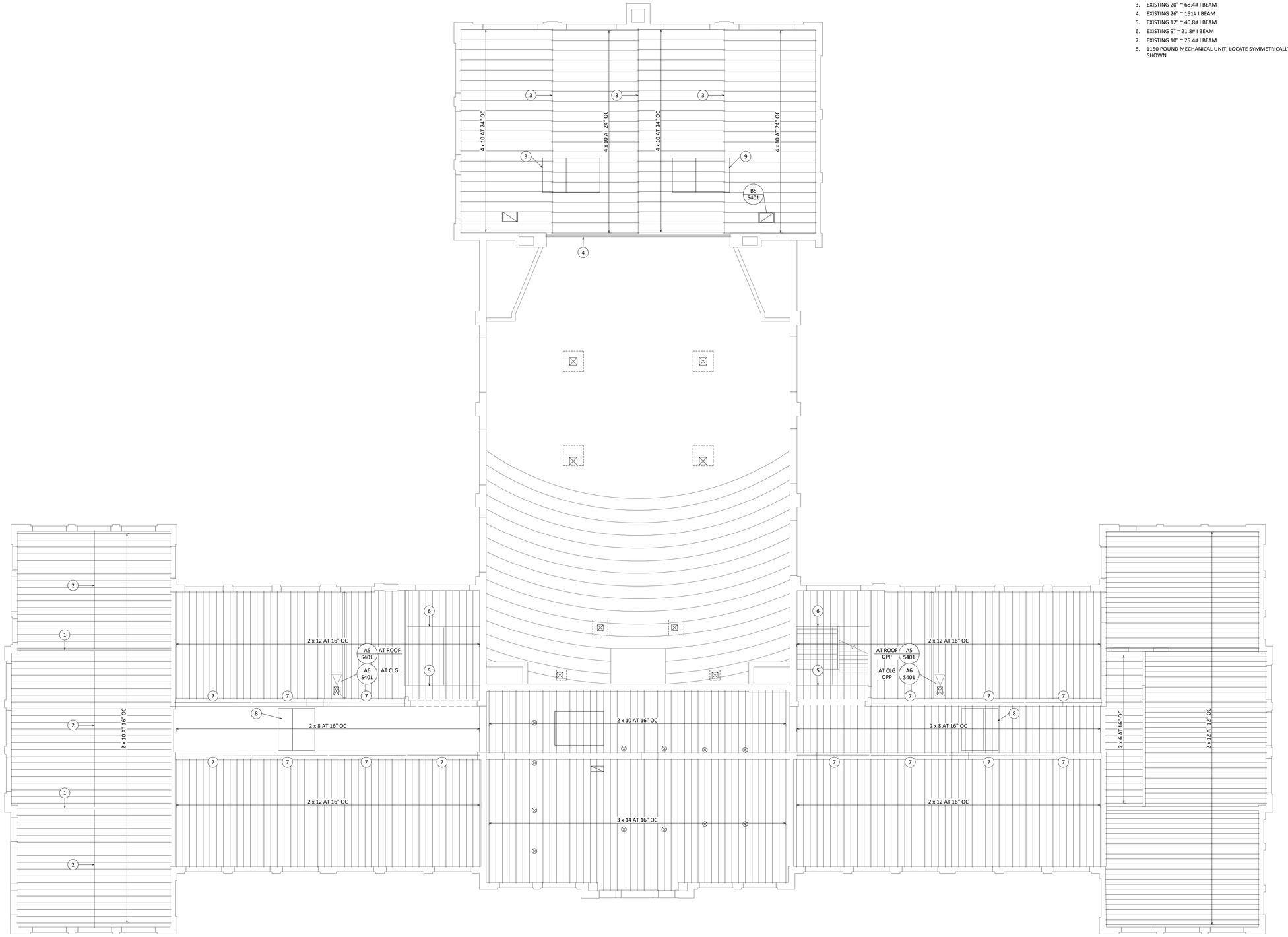
SHEET TITLE

SECOND FLOOR FRAMING PLAN

SHEET

S-102



A1 THIRD FLOOR AND LOW ROOF FRAMING PLAN

1/8" = 1'-0"

GENERAL NOTES

A. THE EXISTING WOOD MEMBER SIZES SHOWN ARE PRESUMED TO BE FULL SIZE MEMBERS. CONTRACTOR SHALL VERIFY WOOD MEMBER SIZES IN WORK AREAS.

KEYED NOTES

1. EXISTING 24" ~ 79.9# I BEAM
2. EXISTING 18" ~ 34.4# I BEAM
3. EXISTING 20" ~ 68.4# I BEAM
4. EXISTING 26" ~ 151# I BEAM
5. EXISTING 12" ~ 40.8# I BEAM
6. EXISTING 9" ~ 21.8# I BEAM
7. EXISTING 10" ~ 25.4# I BEAM
8. 1150 POUND MECHANICAL UNIT, LOCATE SYMMETRICALLY OVER THREE JOISTS AS SHOWN

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DONALD E. MACCORNACK
NEW MEXICO
8838
REGISTERED PROFESSIONAL ENGINEER
1-18-23

PROJECT

AESC HVAC UPGRADES

OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS

CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	January 20, 2023
Project Number	2022-011
Project File	
Drawn By	DW
Checked By	DM

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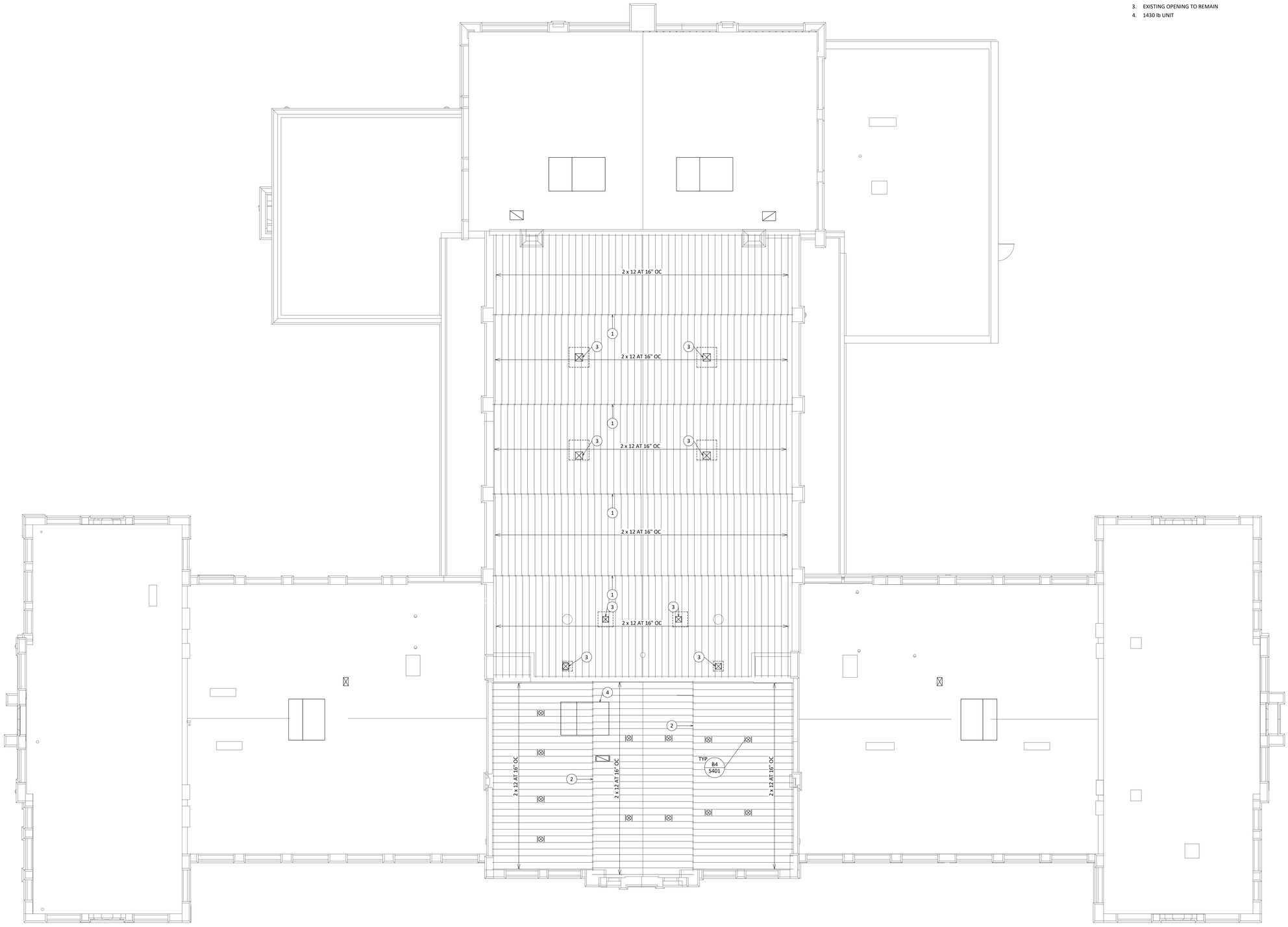
SHEET TITLE

THIRD FLOOR & LOW ROOF FRAMING PLAN

SHEET

S-103



A1 ROOF FRAMING PLAN
1/8" = 1'-0"

GENERAL NOTES

A. THE EXISTING WOOD MEMBER SIZES SHOWN ARE PRESUMED TO BE FULL SIZE MEMBERS. CONTRACTOR SHALL VERIFY WOOD MEMBER SIZES IN WORK AREAS.

KEYED NOTES

1. EXISTING STEEL DOUBLE PITCHED TRUSS
2. EXISTING 24" ~ 79.9# I BEAM
3. EXISTING OPENING TO REMAIN
4. 1430 lb UNIT

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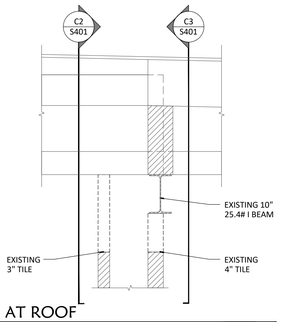
SHEET TITLE

HIGH ROOF FRAMING PLAN

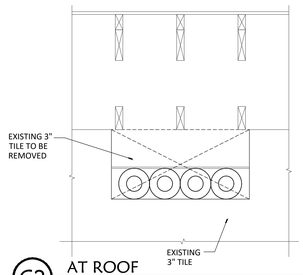
SHEET

S-104

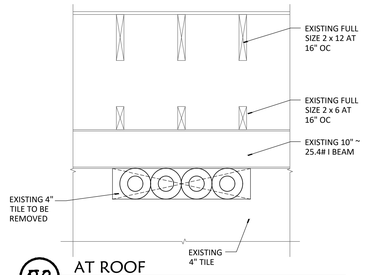
REFER TO ARCHITECTURAL & MECHANICAL FOR WALL PENETRATIONS



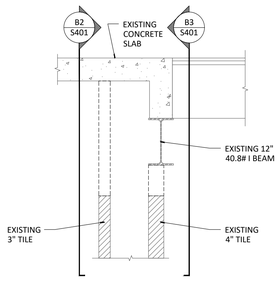
C1 AT ROOF
3/4" = 1'-0"



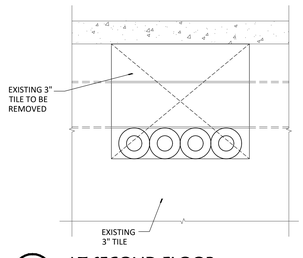
C2 AT ROOF
3/4" = 1'-0"



C3 AT ROOF
3/4" = 1'-0"



B1 AT SECOND FLOOR
3/4" = 1'-0"



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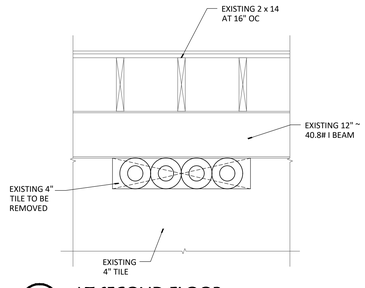
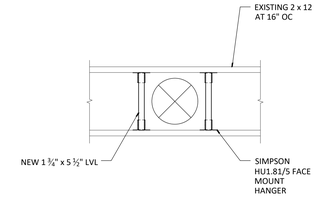
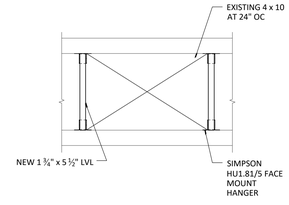


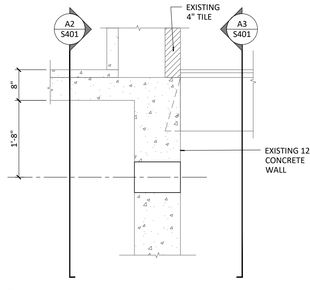
B3 AT SECOND FLOOR
3/4" = 1'-0"



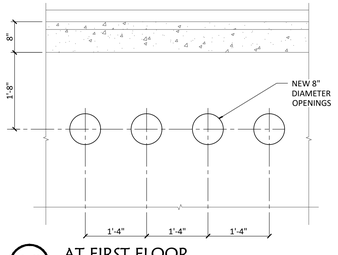
B4 3/4" = 1'-0"



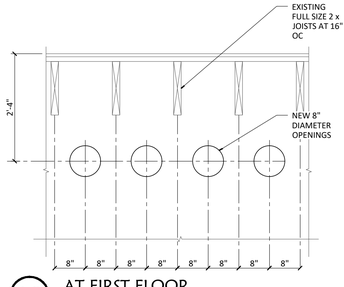
B5 3/4" = 1'-0"



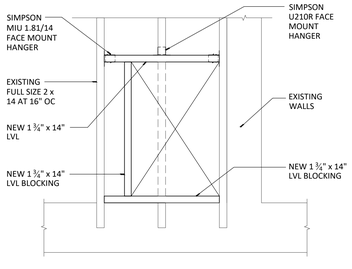
A1 AT FIRST FLOOR
3/4" = 1'-0"



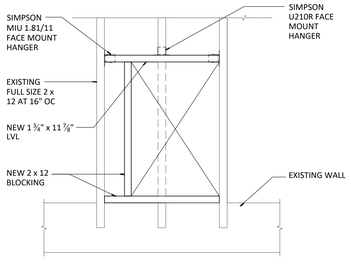
A2 AT FIRST FLOOR
3/4" = 1'-0"



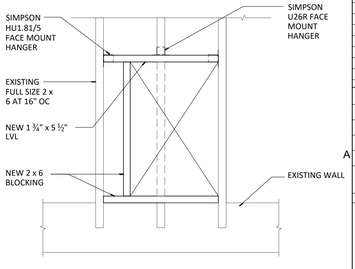
A3 AT FIRST FLOOR
3/4" = 1'-0"



A4 3/4" = 1'-0"



A5 3/4" = 1'-0"



A6 3/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER

PROJECT

AESC HVAC
UPGRADES

OWNER

ROSWELL
INDEPENDENT
SCHOOL DISTRICT

ADDRESS

300 N. KENTUCKY,
ROSWELL, NM 88201

PROJECT STATUS

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DOCUMENTS

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Checked By	DM

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SHEET TITLE

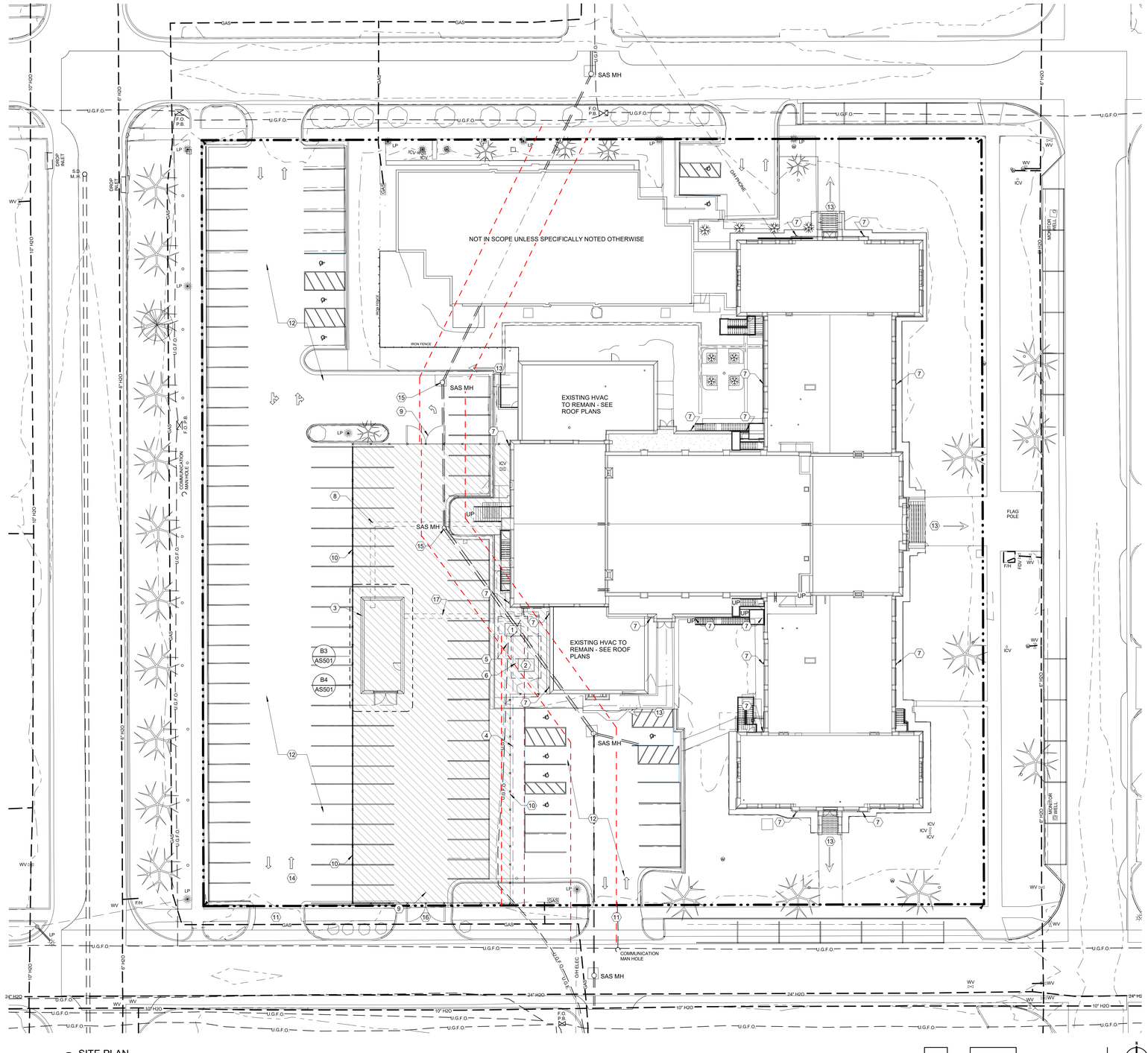
FRAMING DETAILS

SHEET

S-401

GENERAL SHEET NOTES

A. NONE



A2 SITE PLAN
1" = 20'-0"

0' 10' 20' 40' 80'

SHEET KEYNOTES

1 EXISTING TRANSFORMER TO REMAIN - NO WORK
2 TRANSFORMER - SEE ELECTRICAL
3 CHILLER YARD - SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS
4 EXISTING ELECTRICAL LINE
5 EXISTING CLEARANCE EASEMENT FOR ELECTRICAL TRANSFORMER
6 CLEARANCE EASEMENT FOR ELECTRICAL TRANSFORMER
7 DOWNSPOUT OUTLET LOCATION - PROVIDE SITE DRAINAGE REWORK AS INDICATED ON THE CIVIL ENGINEERING DRAWINGS
8 CUT EXISTING ASPHALTIC CONCRETE PAVING, TRENCH FOR NEW PIPING, BACKFILL AND COMPACT TRENCH, PATCH BACK WITH NEW ASPHALTIC CONCRETE PAVING
9 CONSTRUCTION GATE
10 CONSTRUCTION FENCE
11 VEHICULAR SITE ACCESS. CONTRACTOR TO MAINTAIN ACCESS
12 EXISTING DRIVE, PARKING, AND AISLE TO REMAIN OPERATIONAL
13 MAINTAIN BUILDING EGRESS TO PUBLIC WAY
14 PROVIDE TEMPORARY STRIPING AND SIGNAGE FOR TRAFFIC CONTROL
15 PROVIDE ACCESS TO SAS MANHOLE FOR MONTHLY UTILITY MAINTENANCE
16 VEHICULAR SITE ACCESS. CONTRACTOR TO MAINTAIN EMERGENCY ACCESS
17 PROVIDE TRENCH FOR NEW ELECTRICAL PANEL FEEDER. SAWCUT ASPHALT AND PATCH TO MATCH EXISTING ASPHALT.

SITE PLAN LEGEND

	EGRESS PATH
	CONSTRUCTION FENCE
	CONSTRUCTION STAGING AREA
ICV	IRRIGATION CONTROL VALVE
FOPB	FIBER OPTIC PULL BOX
LP	LIGHT POLE
LP	LIGHT POLE
T	TELEPHONE RISER
WV	WATER VALVE
SAS MH	SANITARY SEWER MAN HOLE
SD MH	STORM DRAIN MAN HOLE
W	WATER METER
F / H	FIRE HYDRANT
GAS	UNDERGROUND GAS LINE
EGE	UNDERGROUND ELECTRIC LINE
UGFO	UNDERGROUND FIBER OPTIC LINE
H2O	UNDERGROUND WATER LINE
	CONTOUR LINE
	PROPERTY LINE
	BUSH / SHRUB
	TREE

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JANUARY 20, 2023

PROJECT

AESC HVAC UPGRADES

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300 N. KENTUCKY, ROSWELL, NM 88201

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Drawn By	JBS , MR
Checked By	RM, MH

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SHEET TITLE

SITE PLAN

SHEET

AS101

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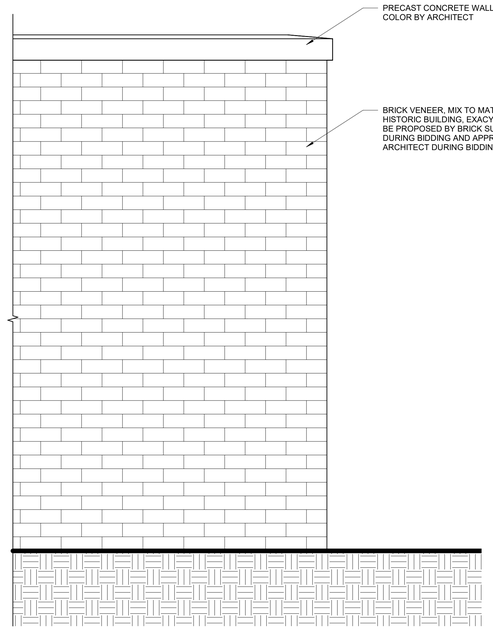
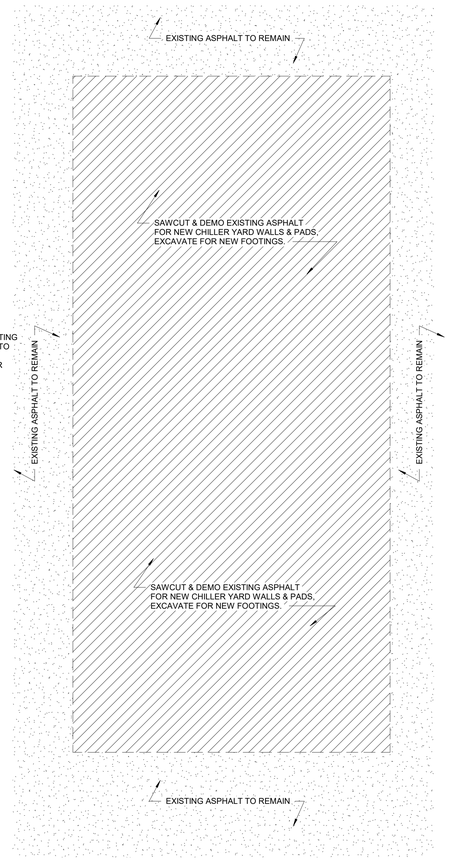
GENERAL SHEET NOTES

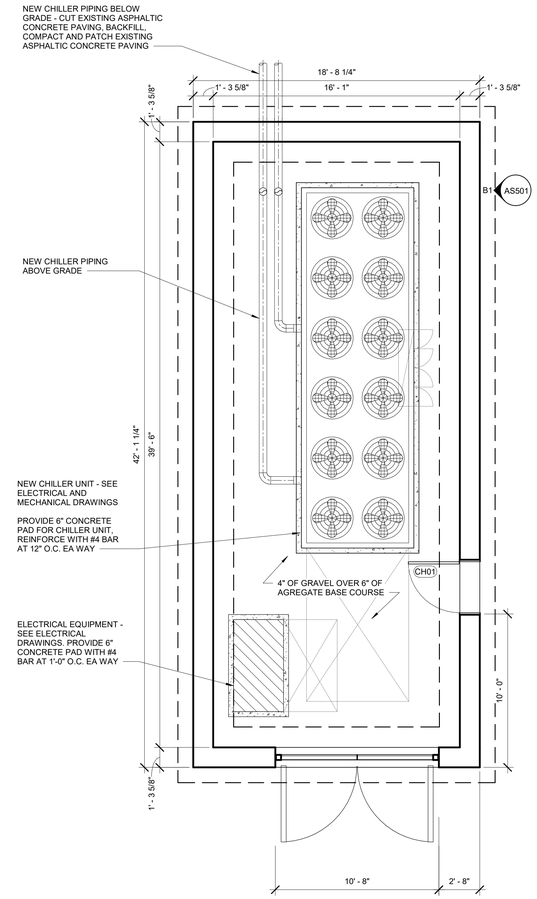
A. UNLESS SPECIFICALLY NOTED OTHERWISE: CAP ALL OPEN ENDS OF STEEL MEMBERS, GRIND ALL WELDS SMOOTH, PRIME ALL STEEL, PAINT ALL STEEL, COLOR BY ARCHITECT.



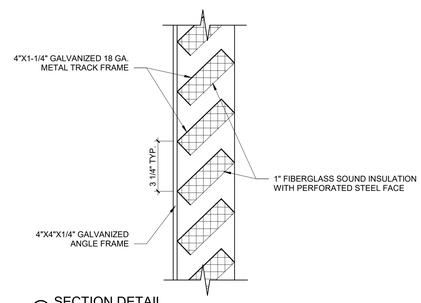
B1 ELEVATION
1" = 1'-0"



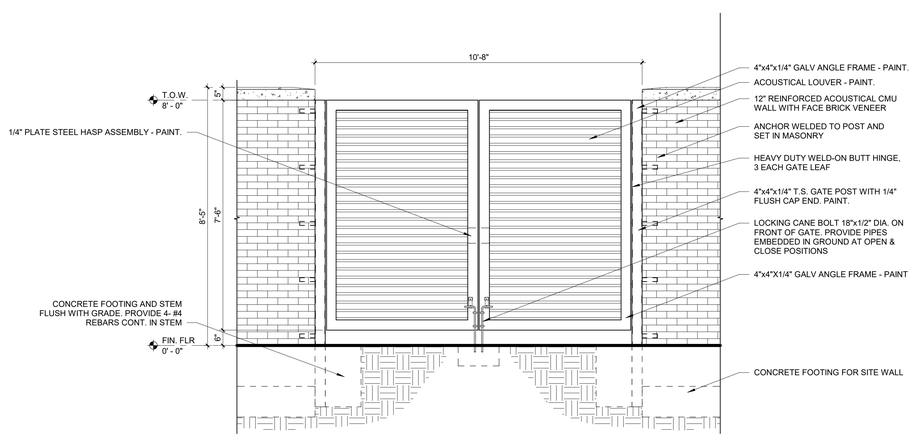
B3 ENLARGED SITE PLAN - DEMO
1/4" = 1'-0"



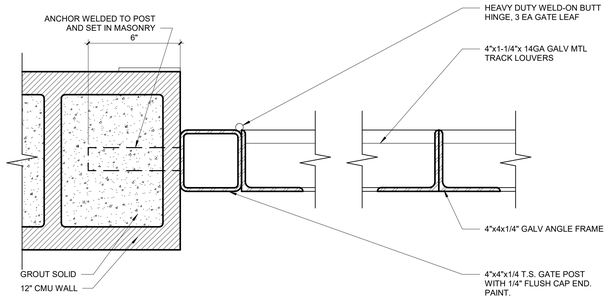
B4 ENLARGED SITE PLAN - NEW
1/4" = 1'-0"



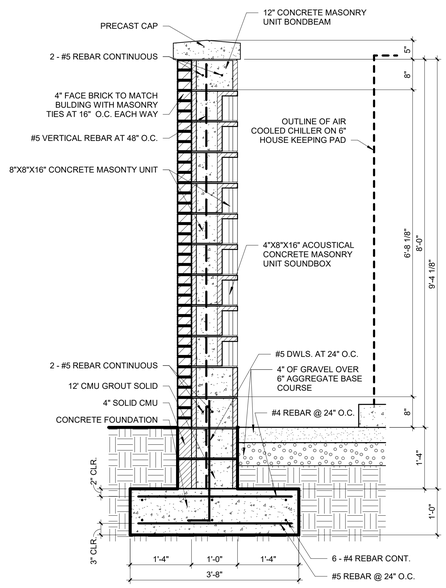
C5 SECTION DETAIL
3" = 1'-0"



A1 CHILLER YARD GATE ELEVATION DETAIL
1/2" = 1'-0"



A4 GATE PLAN DETAIL
3" = 1'-0"



A5 WALL SECTION
3/4" = 1'-0"

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No. 004757
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JANUARY 20, 2023

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Drawn By	Author
Checked By	Checker

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SHEET TITLE

SITE DETAILS

SHEET

AS501

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DEMOLITION & PATCHING GENERAL NOTES:

A. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
B. EXISTING PLAN CONFIGURATION & BUILDING INFORMATION HAS BEEN PROVIDED BY THE OWNER AND BELIEVED TO REFLECT CURRENT CONDITIONS. CONTRACTOR TO CONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
C. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
D. CONTRACTOR TO COORDINATE EXTENT OF DEMOLITION WORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR PLANS.
E. PROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED AREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS NOTED OTHERWISE.
F. CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH OWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER-OCCUPIED SPACES.
G. CONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT ALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN APPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE ALTERED.
H. PROTECT EXISTING CONSTRUCTION TO REMAIN.
J. PATCH & PREPARE SUBSTRATE TO RECEIVE NEW FINISHES IN ACCORDANCE WITH NEW FINISH MATERIAL MANUFACTURER'S RECOMMENDATIONS.
K. UTILITIES THAT REMAIN WITHIN EXISTING WALLS TO BE DEMOLISHED ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE NEW PLAN CONFIGURATION.
L. LABEL & PACKAGE ALL COMPONENTS OF SALVAGED ITEMS TO BE DELIVERED TO OWNER. COORDINATE LABEL & PACKAGE REQUIREMENTS & STORAGE LOCATIONS WITH OWNER.
M. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST & NOISE CONTAINMENT BARRIERS BETWEEN THE WORK AREA & THE ADJACENT OWNER-OCCUPIED SPACES. CONTRACTOR TO COORDINATE TIMING CONSTRUCTION ACTIVITY WITH OWNER SO AS TO MINIMIZE DISRUPTION TO BUILDING OCCUPANTS.
N. CONTRACTOR TO COORDINATE ALL UTILITY SYSTEM SHUTDOWN ACTIVITIES IN ADVANCE WITH THE OWNER AND MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER-OCCUPIED SPACES.
O. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS ON A DAILY BASIS, COORDINATE MEANS, METHODS & ROUTES AND CONTAMINATION CONTROL PROTOCOLS WITH OWNER.
P. WHERE SELECTIVE DEMOLITION IS REQUIRED ADJACENT TO EXISTING SURFACES TO REMAIN, PATCH AND REPAIR TO MATCH EXISTING SURFACES UNLESS NOTED OTHERWISE.
Q. ALL UTILITY SYSTEMS & OTHER COMPONENTS THAT ARE SCHEDULED FOR DISCONNECTION SHALL BE REMOVED IN THEIR ENTIRETY, "DISCONNECT, CAP & ABANDON IN PLACE"IS NOT ACCEPTABLE UNLESS SPECIFICALLY NOTED OTHERWISE.
R. TESTING, ABATEMENT AND DISPOSAL OF HAZARDOUS MATERIALS: NOT IN CONTRACT. TESTING, ABATEMENT AND DISPOSAL SHALL BE PERFORMED PRIOR TO THE WORK. CONTACT OWNER IMMEDIATELY IF PRESUMED HAZARDOUS MATERIALS ARE DISCOVERED ON SITE.
S. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS AND PERFORM REMOVAL CONTINUOUSLY TO AVOID EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, FRAMING, AND/OR STRUCTURAL SYSTEM.
T. PROVIDE BARRICADES & SAFETY LIGHTS AT WORK AREAS TO DIRECT OCCUPANTS AWAY FROM WORK ACTIVITIES.
U. PROVIDE COVERED PASSAGEWAYS WHERE NECESSARY TO ENSURE SAFE PASSAGE OF PERSONS IN OR NEAR AREAS OF WORK.
V. CONDUCT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, WALKS, ENTRANCES, EXITS, AND OTHER ADJACENT OCCUPIED FACILITIES. DO NOT CLOSE OR OBSTRUCT PRIVATE DRIVES, WALKS OR OTHER OCCUPIED OR USED FACILITIES UNLESS APPROVED IN WRITING. DO NOT CLOSE OR OBSTRUCT PUBLIC THOROUGHFARES OR WALKS UNLESS APPROVED BY AUTHORITIES HAVING JURISDICTION. DO NOT OBSTRUCT EXITS FROM EXISTING FACILITIES WITHOUT APPROVAL OF AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.
W. PROTECT PROPERTY TO REMAIN. PROMPTLY REPAIR DAMAGE CAUSED BY DEMOLITION, AS DIRECTED BY ARCHITECT, AT NO COST TO OWNER, CONDUCT OPERATIONS TO PREVENT DAMAGE BY FALLING DEBRIS OR OTHER CAUSE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AS WELL AS PERSONS, AND PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OF COLLAPSE OF STRUCTURES.
X. PERFORM PRELIMINARY INVESTIGATIONS AS REQUIRED TO ASCERTAIN EXTENT OF WORK. CONDITIONS WHICH WOULD BE APPARENT BY SUCH INVESTIGATION WILL NOT BE ALLOWED AS CAUSE FOR CLAIMS FOR EXTRA COSTS.

SHEET KEYNOTES

1. PROVIDE OPENING FOR NEW DUCTWORK AND PIPING PATCH & PAINT TO MATCH ADJACENT WALL CORING AND/OR CUTTING MAY BE REQUIRED. CORING AND CUTTING REQUIRE STRUCTURAL ENGINEER REVIEW AND APPROVAL - COORDINATE EXACT LOCATIONS WITH MECHANICAL.
2. PROVIDE DEMO FOR NEW HEATING & COOLING WATER PIPING - CUT / CORE WALL AS REQUIRED. PATCH & PAINT TO MATCH EXISTING - SEAL BETWEEN WALL & PIPING - COORDINATE EXACT LOCATIONS WITH MECHANICAL.
3. PROVIDE DEMO FOR NEW OA DUCT CUT / CORE WALL AS REQUIRED. PATCH & PAINT TO MATCH EXISTING - SEAL BETWEEN WALL & DUCT - COORDINATE EXACT LOCATIONS WITH MECHANICAL.
4. DEMO EXISTING WINDOW AIR CONDITIONING UNIT - DEMO COMPLETE, PREP OPENING, - SEE DETAILS.
5. EXISTING VENT ABOVE - NO PENETRATIONS
6. DEMO EXISTING CONCRETE WALL COMPLETE
7. DEMO EXISTING DOOR & FRAME COMPLETE
8. DEMO EXISTIN DOOR & FRAME, PREP OPENING
9. PROVIDE DEMO FOR NEW EXHAUST DUCT CUT / CORE WALL AS REQUIRED. PATCH & PAINT TO MATCH EXISTING - SEAL BETWEEN WALL & DUCT - COORDINATE EXACT LOCATIONS WITH MECHANICAL.

GENERAL SHEET NOTES

A. UNLESS SPECIFICALLY NOTED OTHERWISE, EXISTING BUILDING ELEMENTS ARE TO REMAIN AND REQUIRE PROTECTION DURING CONSTRUCTION ACTIVITIES.

EXISTING WALL CORING/CUTTING LEGEND

NOTE: EXISTING WALL CONSTRUCTION MATERIAL INFORMATION IS BASED ON ORIGINAL DRAWINGS PREPARED BY I.H. RAPP, W.M. RAPP, AND A.C. HENDRICKSON ARCHITECTS DATED MAY 16, 1928. **CONTRACTOR TO VERIFY WALL CONSTRUCTION IN FIELD PRIOR TO CORING OR CUTTING OF WALLS.**

CONCRETE WALL - VARYING WIDTH

FOR SQUARE DUCT PENETRATIONS: CORE CORNERS OF PENETRATION AND SAWCUT BETWEEN - SEE DETAIL C6 / A-503

FOR ROUND DUCT AND PIPE PENETRACTIONS: CORE PENETRATION - SEE STRUCTURAL DETAILS

4" PENETENTIARY TILE WALL

FOR SQUARE AND ROUND DUCT AND PIPE PENETRATIONS: REMOVE TILES TO ACCOMODATE PENETRATION - SEE STRUCTURAL DETAILS.

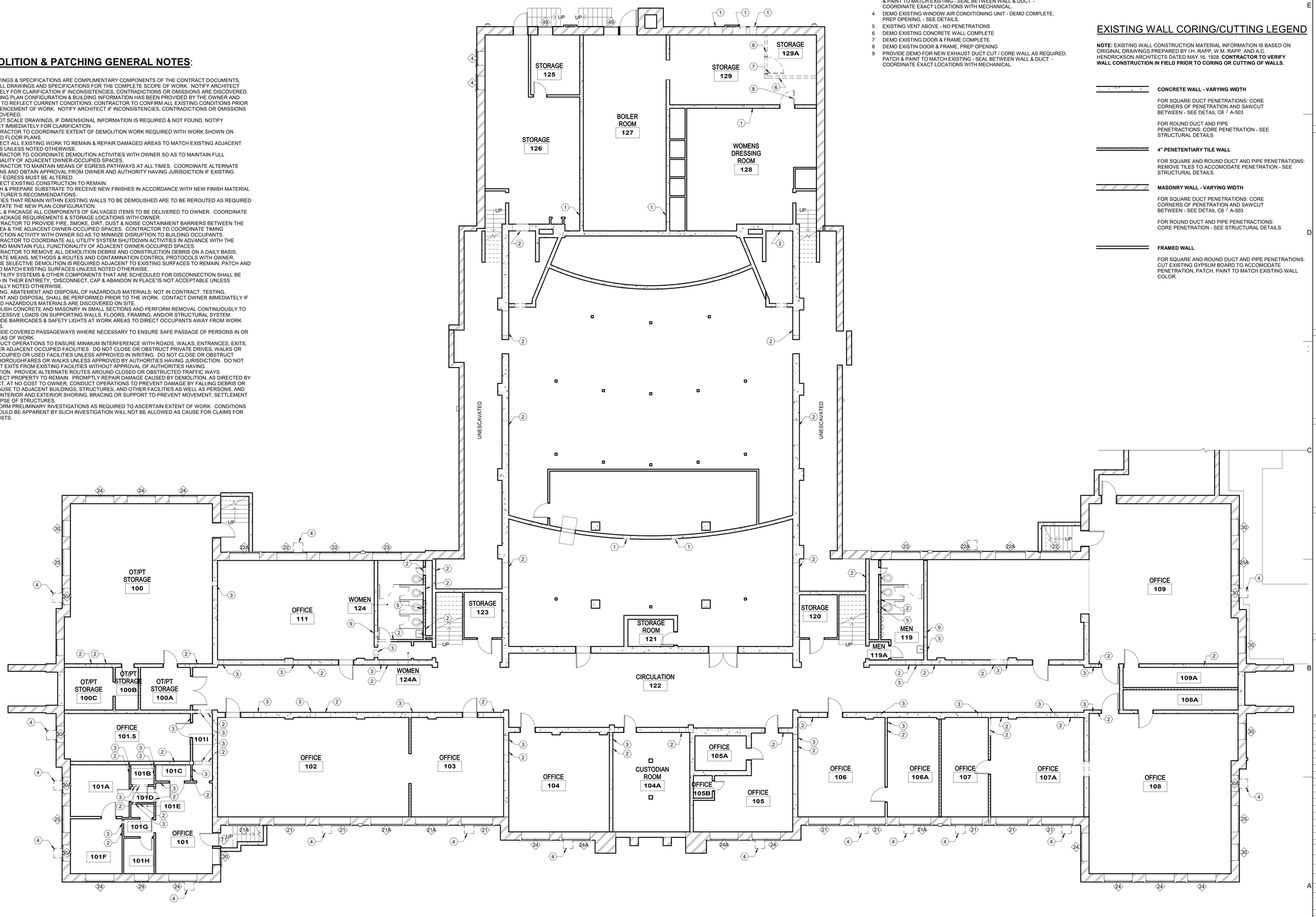
MASONRY WALL - VARYING WIDTH

FOR SQUARE DUCT PENETRATIONS: CORE CORNERS OF PENETRATION AND SAWCUT BETWEEN - SEE DETAIL C6 / A-503

FOR ROUND DUCT AND PIPE PENETRATIONS: CORE PENETRATION - SEE STRUCTURAL DETAILS

FRAMED WALL

FOR SQUARE AND ROUND DUCT AND PIPE PENETRATIONS: CUT EXISTING GYPSUM BOARD TO ACCOMODATE PENETRATION, PATCH, PAINT TO MATCH EXISTING WALL COLOR.



A1 DEMO & PATCHING PLAN - FIRST FLOOR
1/8" = 1'-0"

0' 4' 8' 16' 32'

McCLAIN + YU
ARCHITECTURE & DESIGN

McClain + Yu Architecture & Design
2010 Ridgecrest Dr SE
Albuquerque, NM 87108
505.266.2142
info@mcclain-yu.com
www.mcclain-yu.com

CONSULTANTS

STATE OF NEW MEXICO RAIMUNDO MCCLAIN No. 004757 REGISTERED ARCHITECT JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JBS, SB
Checked By	RM, MH

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE
DEMO & PATCHING PLAN - FIRST FLOOR

SHEET
AD101

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DEMOLITION & PATCHING GENERAL NOTES:

A. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
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C. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
D. CONTRACTOR TO COORDINATE EXTENT OF DEMOLITION WORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR PLANS.
E. PROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED AREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS NOTED OTHERWISE.
F. CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH OWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER-OCCUPIED SPACES.
G. CONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT ALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN APPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE ALTERED.
H. PROTECT EXISTING CONSTRUCTION TO REMAIN.
J. PATCH & PREPARE SUBSTRATE TO RECEIVE NEW FINISHES IN ACCORDANCE WITH NEW FINISH MATERIAL MANUFACTURER'S RECOMMENDATIONS.
K. UTILITIES THAT REMAIN WITHIN EXISTING WALLS TO BE DEMOLISHED ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE NEW PLAN CONFIGURATION.
L. LABEL & PACKAGE ALL COMPONENTS OF SALVAGED ITEMS TO BE DELIVERED TO OWNER. COORDINATE LABEL & PACKAGE REQUIREMENTS & STORAGE LOCATIONS WITH OWNER.
M. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST & NOISE CONTAINMENT BARRIERS BETWEEN THE WORK AREA & THE ADJACENT OWNER-OCCUPIED SPACES. CONTRACTOR TO COORDINATE TIMING CONSTRUCTION ACTIVITY WITH OWNER SO AS TO MINIMIZE DISRUPTION TO BUILDING OCCUPANTS.
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S. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS AND PERFORM REMOVAL CONTINUOUSLY TO AVOID EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, FRAMING, AND/OR STRUCTURAL SYSTEM.
T. PROVIDE BARRICADES & SAFETY LIGHTS AT WORK AREAS TO DIRECT OCCUPANTS AWAY FROM WORK ACTIVITIES.
U. PROVIDE COVERED PASSAGEWAYS WHERE NECESSARY TO ENSURE SAFE PASSAGE OF PERSONS IN OR NEAR AREAS OF WORK.
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HATCH LEGEND

EXISTING SHAFT/VENT - NO PENETRATIONS TO BE MADE IN THIS AREA

GENERAL SHEET NOTES

A. UNLESS SPECIFICALLY NOTED OTHERWISE, EXISTING BUILDING ELEMENTS ARE TO REMAIN AND REQUIRE PROTECTION DURING CONSTRUCTION ACTIVITIES.

SHEET KEYNOTES

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2. DEMO EXISTING FLOOR & CEILING BELOW FOR NEW DUCT & PIPING CHASE - SEE DETAILS AND STRUCTURAL.
3. PROVIDE DEMO FOR NEW HEATING & COOLING WATER PIPING - CUT / CORE WALL AS REQUIRED. PATCH TO MATCH EXISTING - SEAL BETWEEN WALL & PIPING - COORDINATE EXACT LOCATIONS WITH MECHANICAL.
4. PROVIDE DEMO FOR NEW OA DUCT CUT / CORE WALL AS REQUIRED. PATCH TO MATCH EXISTING - SEAL BETWEEN WALL & DUC - COORDINATE EXACT LOCATIONS WITH MECHANICAL.
5. PROVIDE DEMO OF WALL FOR NEW HEATING/COOLING DUCT, CUT WALL AS REQUIRED, PATCH TO MATCH - SEAL BETWEEN WALL & DUCT - COORDINATE EXACT LOCATIONS WITH MECHANICAL.
6. DEMO EXISTING WINDOW AIR CONDITIONING UNIT - DEMO COMPLETE, PREP OPENING, - SEE DETAILS
7. EXISTING SHAFT/VENT - NO PENETRATIONS
8. EXISTING VENT ABOVE - NO PENETRATIONS
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FOR ROUND DUCT AND PIPE PENETRACTIONS: CORE PENETRATION - SEE STRUCTURAL DETAILS

4" PENETENTIARY TILE WALL

FOR SQUARE AND ROUND DUCT AND PIPE PENETRATIONS: REMOVE TILES TO ACCOMODATE PENETRATION - SEE STRUCTURAL DETAILS.

MASONRY WALL - VARYING WIDTH

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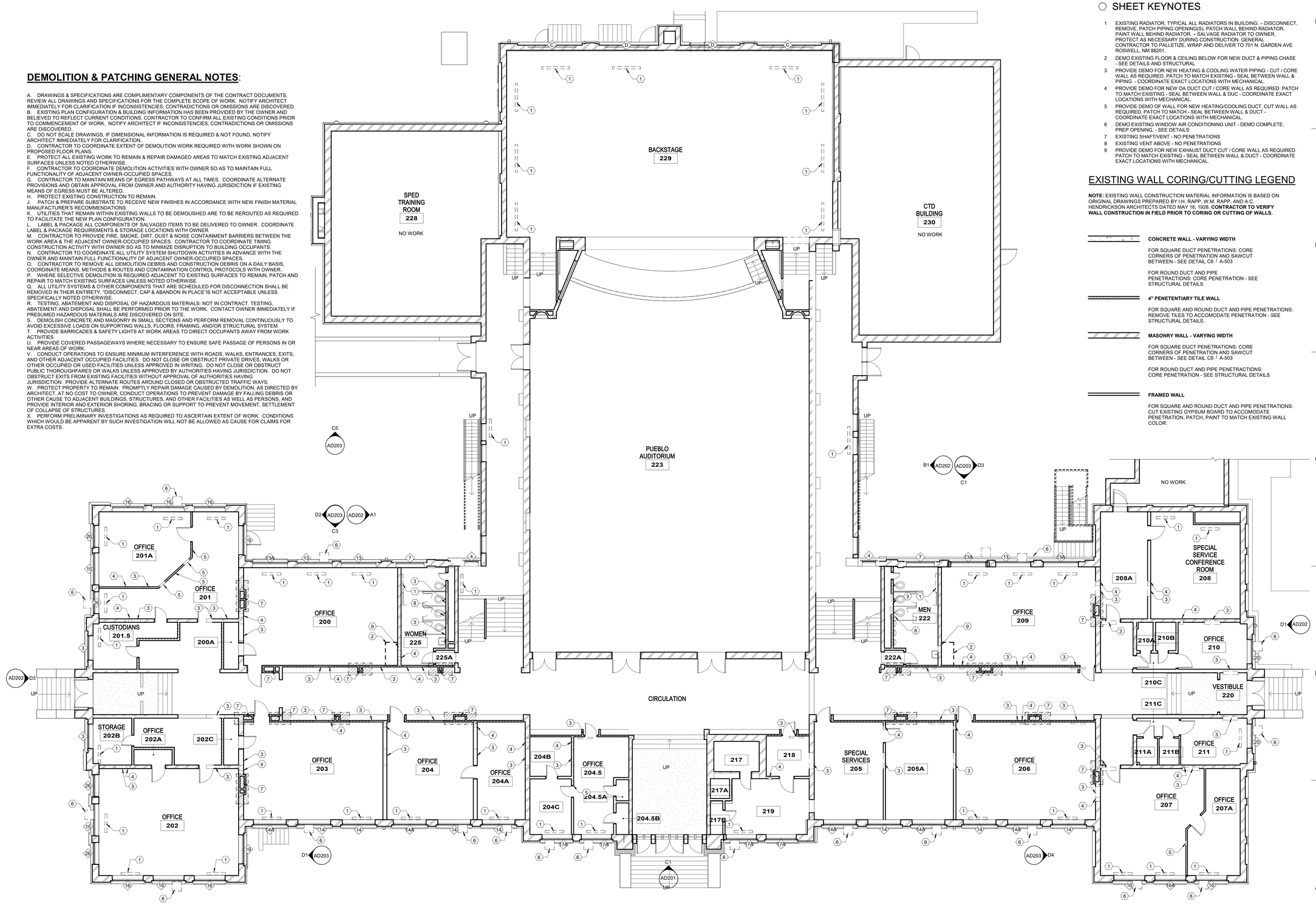

A7 DEMO & PATCHING PLAN - SEECOND FLOOR
1/8" = 1'-0"

0' 4' 8' 16' 32'

McCLAIN + YU
ARCHITECTURE & DESIGN

McClain + Yu Architecture & Design
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CONSULTANTS

STATE OF NEW MEXICO RAIMUNDO MCCLAIN No. 004757 REGISTERED ARCHITECT JANUARY 20, 2023

PROJECT
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OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
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Checked By	RM, MH

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SHEET TITLE
DEMO & PATCHING PLAN - SECOND FLOOR

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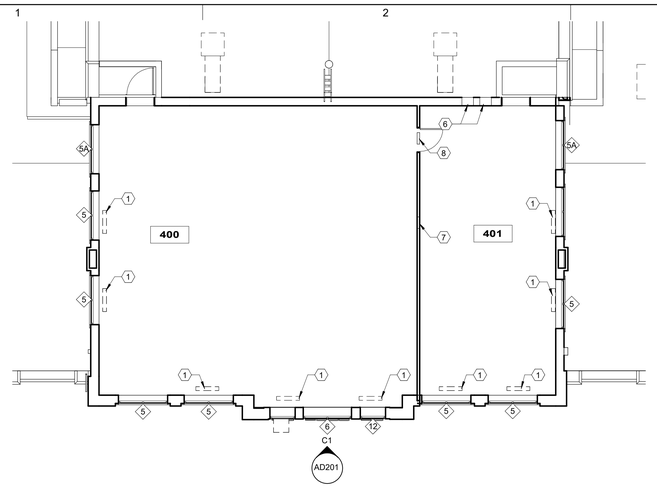

D1 DEMO & PATCHING PLAN - FOURTH FLOOR
1/8" = 1'-0"

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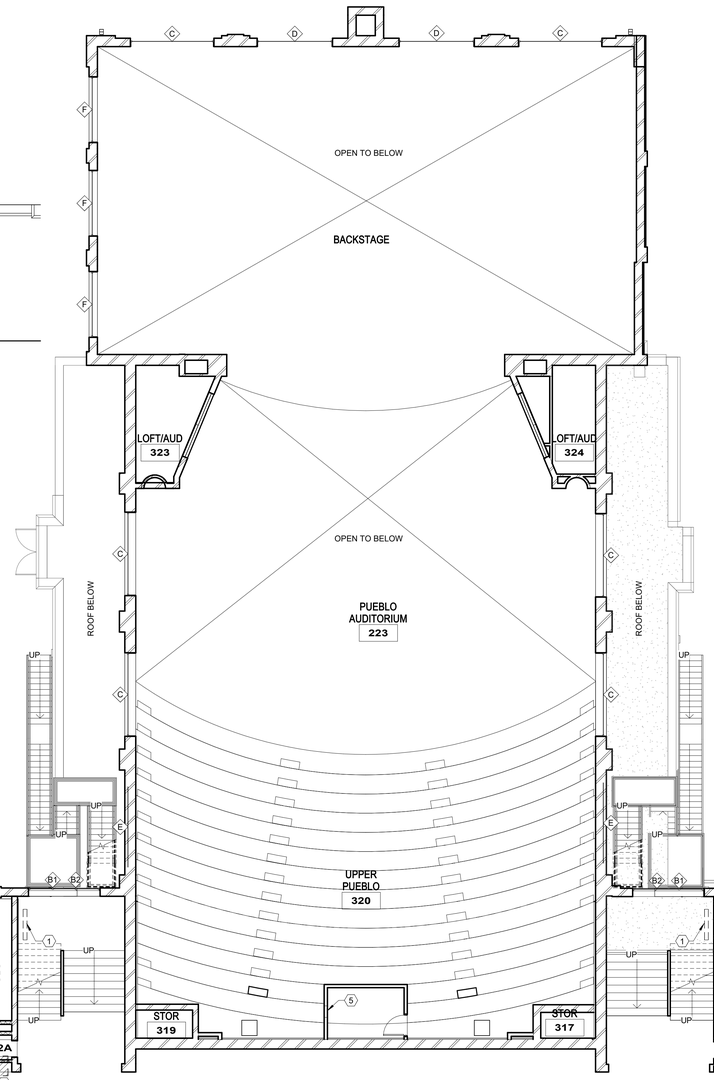

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5. PROVIDE DEMO FOR NEW OA DUCT CUT / CORE WALL AS REQUIRED. PATCH TO MATCH EXISTING - SEAL BETWEEN WALL & DUCT - COORDINATE EXACT LOCATIONS WITH MECHANICAL.
6. DEMO SAW/CUT EXISTING EXTERIOR MASONRY WALL FOR NEW DUCTWORK - SEE MECHANICAL. PROVIDE SUPPORT LINTELS AS REQUIRED - SEE STRUCTURAL
7. PROVIDE DEMO OF WALL FOR NEW HEATING/COOLING DUCT, CUT WALL AS REQUIRED, PATCH TO MATCH - SEAL BETWEEN WALL & DUCT - COORDINATE EXACT LOCATIONS WITH MECHANICAL.
8. DEMO EXISTING WALL FOR TRANSFER AIR DUCT, CUT WALL AS REQUIRED PATCH TO MATCH - SEAL BETWEEN WALL & DUCT
9. DEMO EXISTING WINDOW AIR CONDITIONING UNIT - DEMO COMPLETE, PREP OPENING. - SEE DETAILS
10. EXISTING SHAFT/VENT - NO PENETRATIONS
11. EXISTING VENT ABOVE - NO PENETRATIONS

GENERAL SHEET NOTES

A. UNLESS SPECIFICALLY NOTED OTHERWISE, EXISTING BUILDING ELEMENTS ARE TO REMAIN AND REQUIRE PROTECTION DURING CONSTRUCTION ACTIVITIES.

HATCH LEGEND

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FOR ROUND DUCT AND PIPE PENETRACTIONS: CORE PENETRATION - SEE STRUCTURAL DETAILS

4" PENETENTIARY TILE WALL

FOR SQUARE AND ROUND DUCT AND PIPE PENETRATIONS: REMOVE TILES TO ACCOMODATE PENETRATION - SEE STRUCTURAL DETAILS.

MASONRY WALL - VARYING WIDTH

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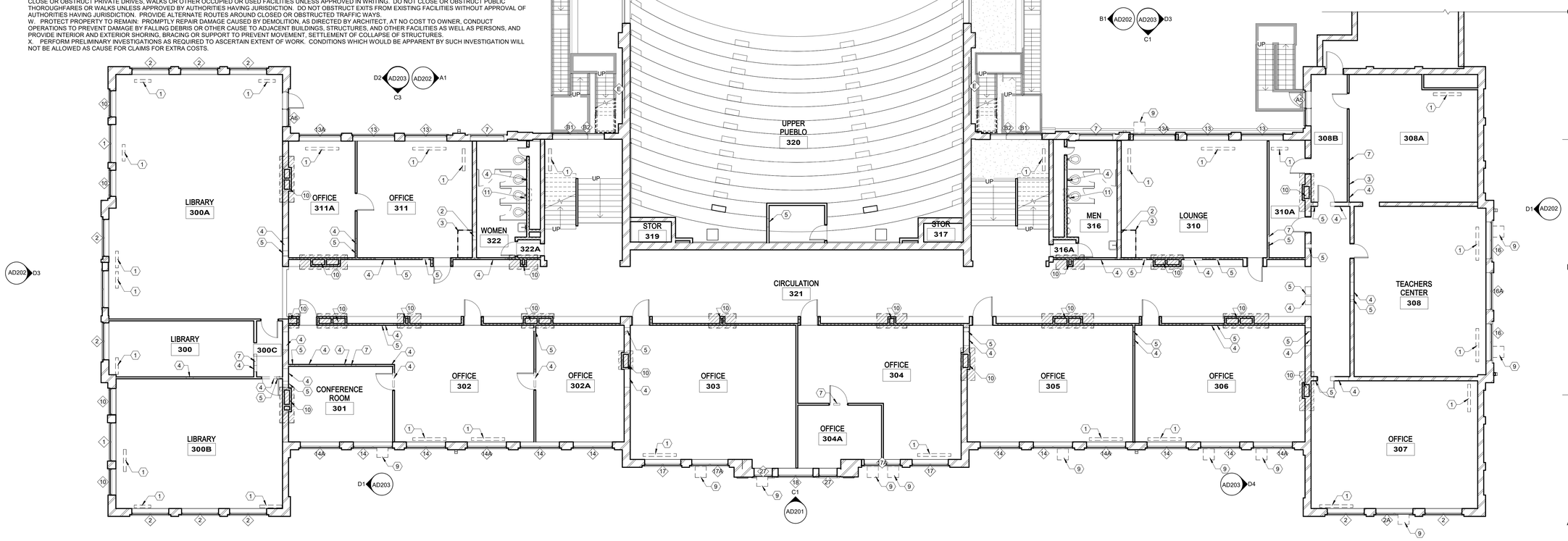

A1 DEMO & PATCHING PLAN - THIRD FLOOR
1/8" = 1'-0"

0' 4' 8' 16' 32'

McCLAIN + YU
ARCHITECTURE & DESIGN

McClain + Yu Architecture & Design
2010 Ridgecrest Dr SE
Albuquerque, NM 87108
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www.mcclain-yu.com

CONSULTANTS

STATE OF NEW MEXICO RAIMUNDO MCCLAIN No. 004757 REGISTERED ARCHITECT JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

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DATE	NO	DESCRIPTION

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Project Number	2022-011
Project File	
Drawn By	Author
Checked By	Checker

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE
DEMO & PATCHING PLANS - THIRD & FOURTH FLOORS

SHEET
AD103

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D. CONTRACTOR TO COORDINATE EXTENT OF DEMOLITION WORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR PLANS.
E. PROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED AREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS NOTED OTHERWISE.
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G. CONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT ALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN APPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE ALTERED.
H. PROTECT EXISTING CONSTRUCTION TO REMAIN.
J. PATCH & PREPARE SUBSTRATE TO RECEIVE NEW FINISHES IN ACCORDANCE WITH NEW FINISH MATERIAL MANUFACTURER'S RECOMMENDATIONS.
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S. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS AND PERFORM REMOVAL CONTINUOUSLY TO AVOID EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, FRAMING, AND/OR STRUCTURAL SYSTEM.
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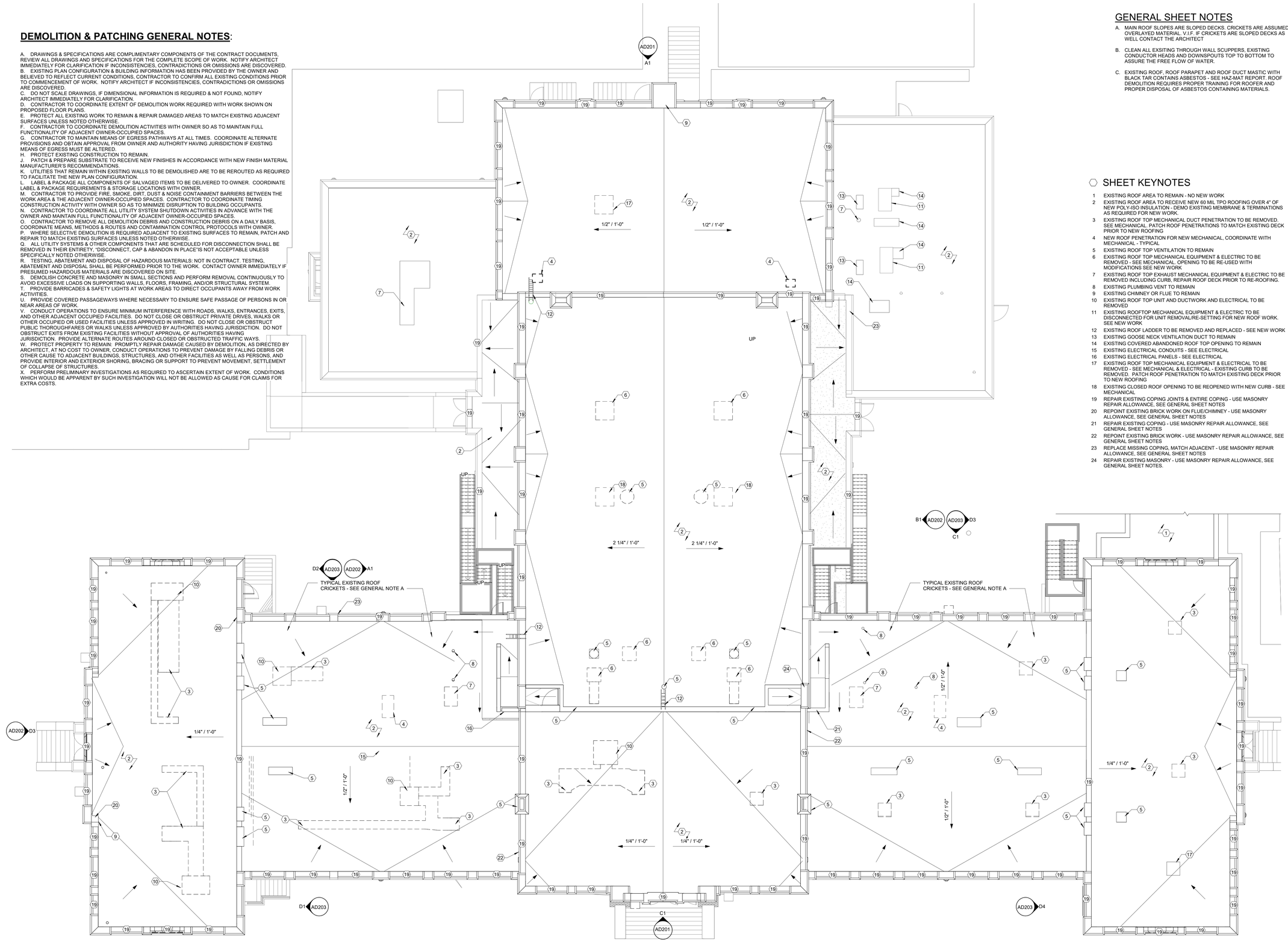

A1 DEMO & PATCHING PLAN - ROOF
1/8" = 1'-0"

GENERAL SHEET NOTES

A. MAIN ROOF SLOPES ARE SLOPED DECKS. CRICKETS ARE ASSUMED OVERLAYED MATERIAL. V.I.F. IF CRICKETS ARE SLOPED DECKS AS WELL CONTACT THE ARCHITECT

B. CLEAN ALL EXSITING THROUGH WALL SCUPPERS, EXISTING CONDUCTOR HEADS AND DOWNSPOUTS TOP TO BOTTOM TO ASSURE THE FREE FLOW OF WATER.

C. EXISTING ROOF, ROOF PARAPET AND ROOF DUCT MASTIC WITH BLACK TAR CONTAINS ASBESTOS - SEE HAZ-MAT REPORT. ROOF DEMOLITION REQUIRES PROPER TRAINING FOR ROOFER AND PROPER DISPOSAL OF ASBESTOS CONTAINING MATERIALS.

SHEET KEYNOTES

1 EXISTING ROOF AREA TO REMAIN - NO NEW WORK
2 EXISTING ROOF AREA TO RECEIVE NEW 60 MIL TPO ROOFING OVER 4" OF NEW POLY-ISO INSULATION - DEMO EXISTING MEMBRANE & TERMINATIONS AS REQUIRED FOR NEW WORK.
3 EXISTING ROOF TOP MECHANICAL DUCT PENETRATION TO BE REMOVED. SEE MECHANICAL. PATCH ROOF PENETRATIONS TO MATCH EXISTING DECK PRIOR TO NEW ROOFING
4 NEW ROOF PENETRATION FOR NEW MECHANICAL, COORDINATE WITH MECHANICAL - TYPICAL
5 EXISTING ROOF TOP VENTILATION TO REMAIN
6 EXISTING ROOF TOP MECHANICAL EQUIPMENT & ELECTRIC TO BE REMOVED - SEE MECHANICAL. OPENING TO BE RE-USED WITH MODIFICATIONS SEE NEW WORK
7 EXISTING ROOF TOP EXHAUST MECHANICAL EQUIPMENT & ELECTRIC TO BE REMOVED INCLUDING CURB, REPAIR ROOF DECK PRIOR TO RE-ROOFING.
8 EXISTING PLUMBING VENT TO REMAIN
9 EXISTING CHIMNEY OR FLUE TO REMAIN
10 EXISTING ROOF TOP UNIT AND DUCTWORK AND ELECTRICAL TO BE REMOVED
11 EXISTING ROOFTOP MECHANICAL EQUIPMENT & ELECTRIC TO BE DISCONNECTED FOR UNIT REMOVALIRE-SETTING FOR NEW ROOF WORK. SEE NEW WORK
12 EXISTING ROOF LADDER TO BE REMOVED AND REPLACED - SEE NEW WORK
13 EXISTING GOOSE NECK VENTILATION DUCT TO REMAIN
14 EXISTING COVERED ABANDONED ROOF TOP OPENING TO REMAIN
15 EXISTING ELECTRICAL CONDUITS - SEE ELECTRICAL
16 EXISTING ELECTRICAL PANELS - SEE ELECTRICAL
17 EXISTING ROOF TOP MECHANICAL EQUIPMENT & ELECTRICAL TO BE REMOVED - SEE MECHANICAL & ELECTRICAL - EXISTING CURB TO BE REMOVED. PATCH ROOF PENETRATION TO MATCH EXISTING DECK PRIOR TO NEW ROOFING
18 EXISTING CLOSED ROOF OPENING TO BE REOPENED WITH NEW CURB - SEE MECHANICAL
19 REPAIR EXISTING COPING JOINTS & ENTIRE COPING - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
20 REPOINT EXISTING BRICK WORK ON FLUE/CHIMNEY - USE MASONRY ALLOWANCE, SEE GENERAL SHEET NOTES
21 REPAIR EXISTING COPING - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
22 REPOINT EXISTING BRICK WORK - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
23 REPLACE MISSING COPING, MATCH ADJACENT - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
24 REPAIR EXISTING MASONRY - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES.

0' 4' 8' 16' 32'

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ARCHITECTURE & DESIGN

McClain + Yu Architecture & Design
2010 Ridgecrest Dr SE
Albuquerque, NM 87108
505.266.2142
info@mcclain-yu.com
www.mcclain-yu.com

CONSULTANTS

STATE OF NEW MEXICO RAIMUNDO J. McCLAIN No. 004757 REGISTERED ARCHITECT JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JBS, SB
Checked By	MH, RM

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE
DEMO & PATCHING PLAN - ROOF

SHEET
AD104

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CEILING TYPE LEGEND

EXISTING PLASTER CEILING

EXISTING 9X9 ACOUSTICAL CEILING

GENERAL SHEET NOTES

A. NONE

SHEET KEYNOTES

1. EXISTING RADIATOR, TYPICAL ALL RADIATORS IN BUILDING: – DISCONNECT, REMOVE, PATCH PIPING OPENING(S), PATCH WALL BEHIND RADIATOR, PAINT WALL BEHIND RADIATOR. – SALVAGE RADIATOR TO OWNER, PROTECT AS NECESSARY DURING CONSTRUCTION. GENERAL CONTRACTOR TO PALLETIZE, WRAP AND DELIVER TO 701 N. GARDEN AVE ROSWELL, NM 88201.
2. DEMO EXISTING CEILING FOR NEW MECHANICAL RETURN AIR DUCTWORK - PATCH TO MATCH ADJACENT - SEAL BETWEEN CEILING AND DUCT
3. DEMO EXISTING CEILING FOR NEW PIPING AND DUCTWORK CHASE - SEE MECH - COORDINATE WITH NEW SHAFT ENCLOSURE - SEE DETAILS - PATCH TO MATCH AS REQUIRED
4. DEMO EXISTING WINDOW AIR CONDITIONING UNIT - DEMO COMPLETE, PREP OPENING, - SEE DETAILS
5. DEMO EXISTING PENDANT LIGHT FIXTURE
6. DEMO EXISTING SURFACE MOUNTED LIGHTING FIXTURE
7. EXISTING VENT ABOVE - NO PENETRATIONS
8. DEMO EXISTING CONCRETE LID COMPLETE
9. DEMO EXISTING CONCRETE WALL COMPLETE
10. DEMO EXISTING DOOR & FRAME COMPLETE
11. DEMO LIGHT FIXTURE - SEE ELECTRICAL

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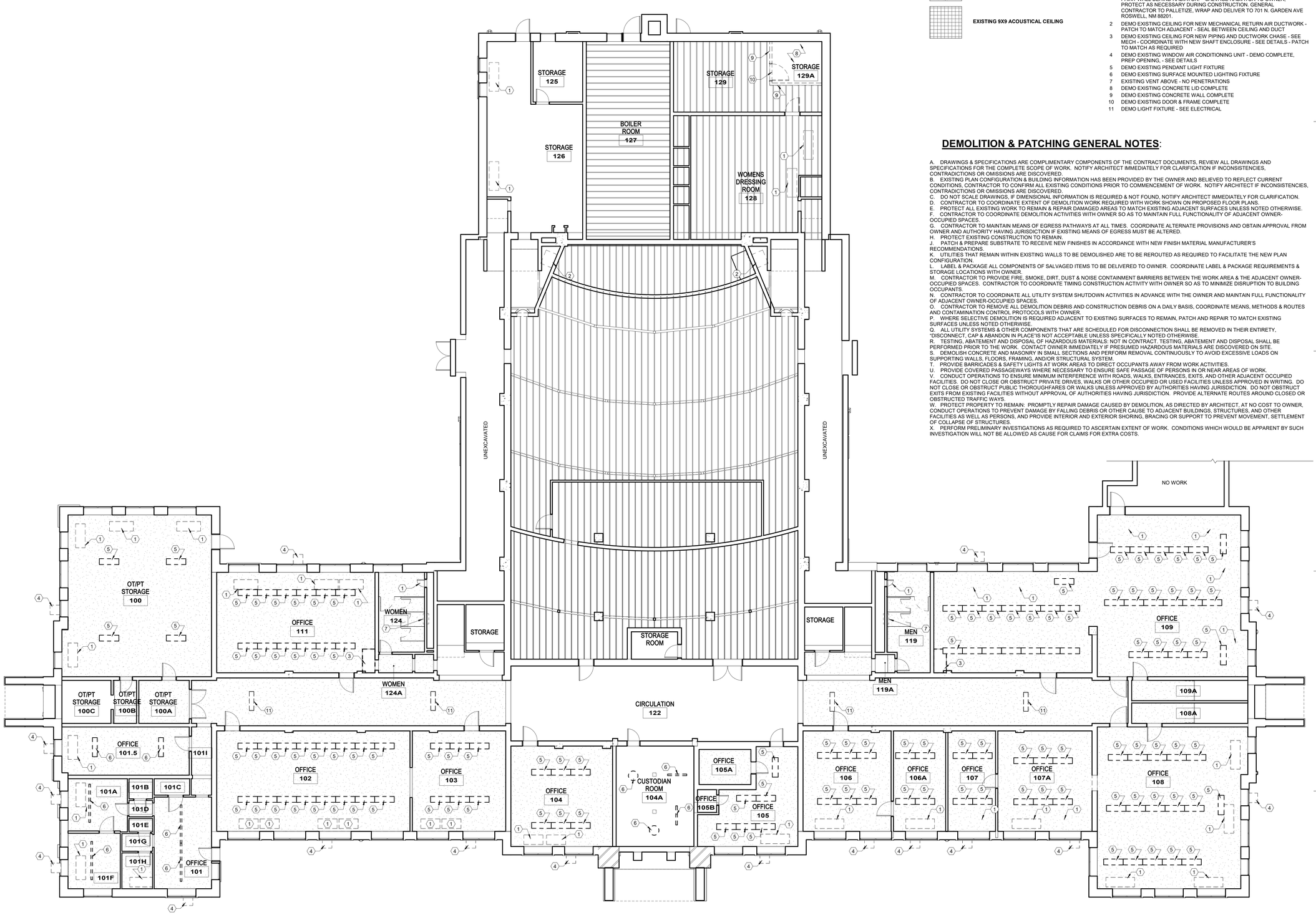

A1 DEMO & PATCHING REFLECTED CEILING PLAN - FIRST FLOOR
1/8" = 1'-0"

0' 4' 8' 16' 32'

McCLAIN + YU
ARCHITECTURE & DESIGN

McClain + Yu Architecture & Design
2010 Ridgecrest Dr SE
Albuquerque, NM 87108
505.266.2142
info@mcclain-yu.com
www.mcclain-yu.com

CONSULTANTS

STATE OF NEW MEXICO
RAIMUNDO MCCLAIN
No. 004757
REGISTERED ARCHITECT
JANUARY 20, 2023

PROJECT

AESC HVAC UPGRADES

OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

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Drawn By	JBS, SB
Checked By	RM, MH

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE

DEMO & PATCHING RCP - FIRST FLOOR

SHEET

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CEILING TYPE LEGEND

EXISTING PLASTER CEILING

EXISTING 9X9 ACOUSTICAL CEILING

GENERAL SHEET NOTES

A. NONE

SHEET KEYNOTES

1 DEMO CEILING/ROOF FOR NEW DEDICATED OUTSIDE AIR SYSTEM DUCT WORK TO ROOF FAN, SEE MECHANICAL. COORDINATE WITH STRUCTURE AND NEW SHAFT ENCLOSURE

2 EXISTING VENT ABOVE - NO PENETRATIONS

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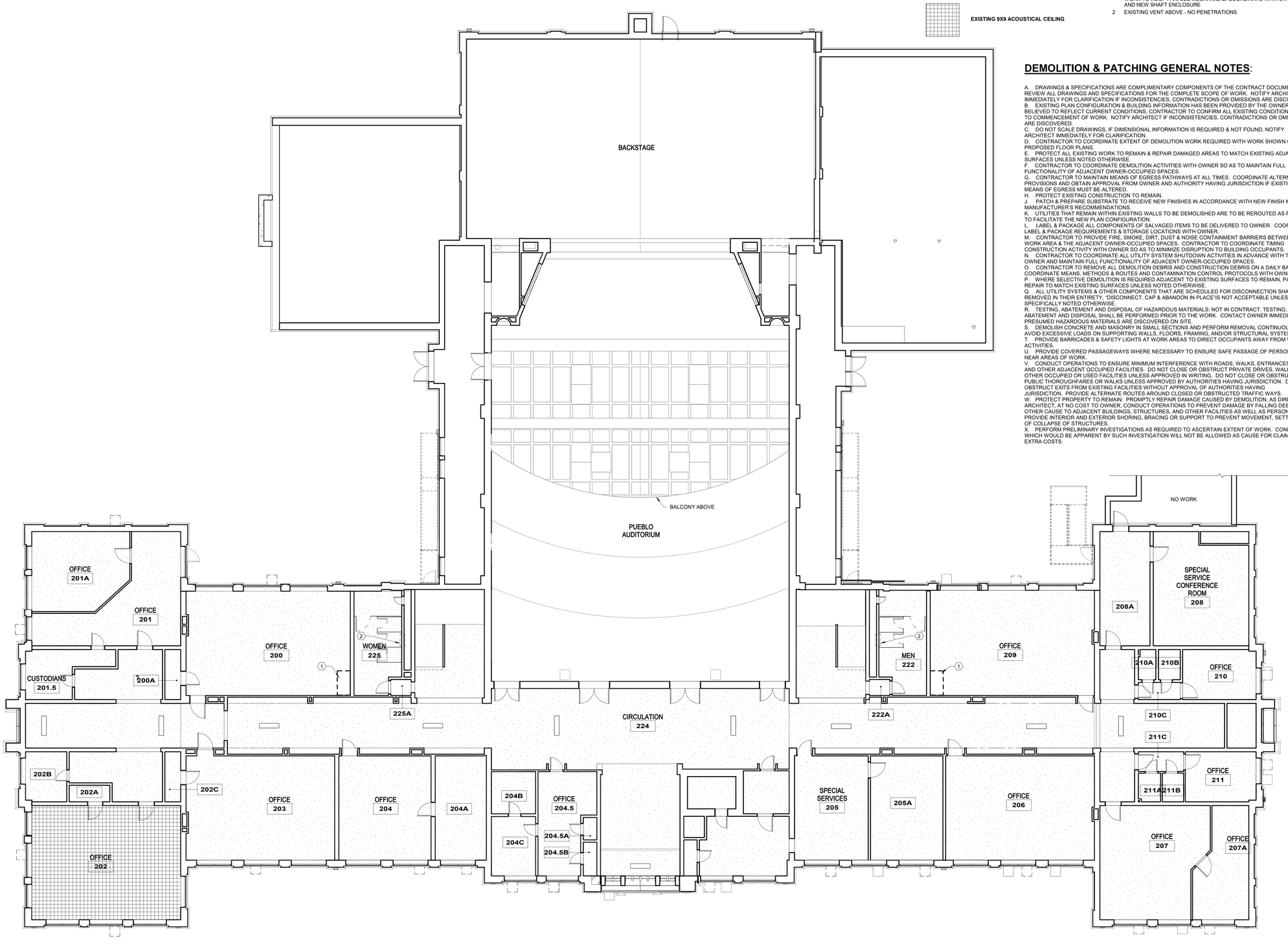

A1 DEMO & PATCHING REFLECTED CEILING PLAN - SECOND FLOOR
1/8" = 1'-0"

0' 4' 8' 16' 32'

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ARCHITECTURE & DESIGN

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CONSULTANTS

STATE OF NEW MEXICO RAIMUNDO MCCLAIN No. 004757 REGISTERED ARCHITECT JANUARY 20, 2023

PROJECT

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OWNER

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ADDRESS

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Checked By	Checker

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE

DEMO & PATCHING RCP - SECOND FLOOR

SHEET

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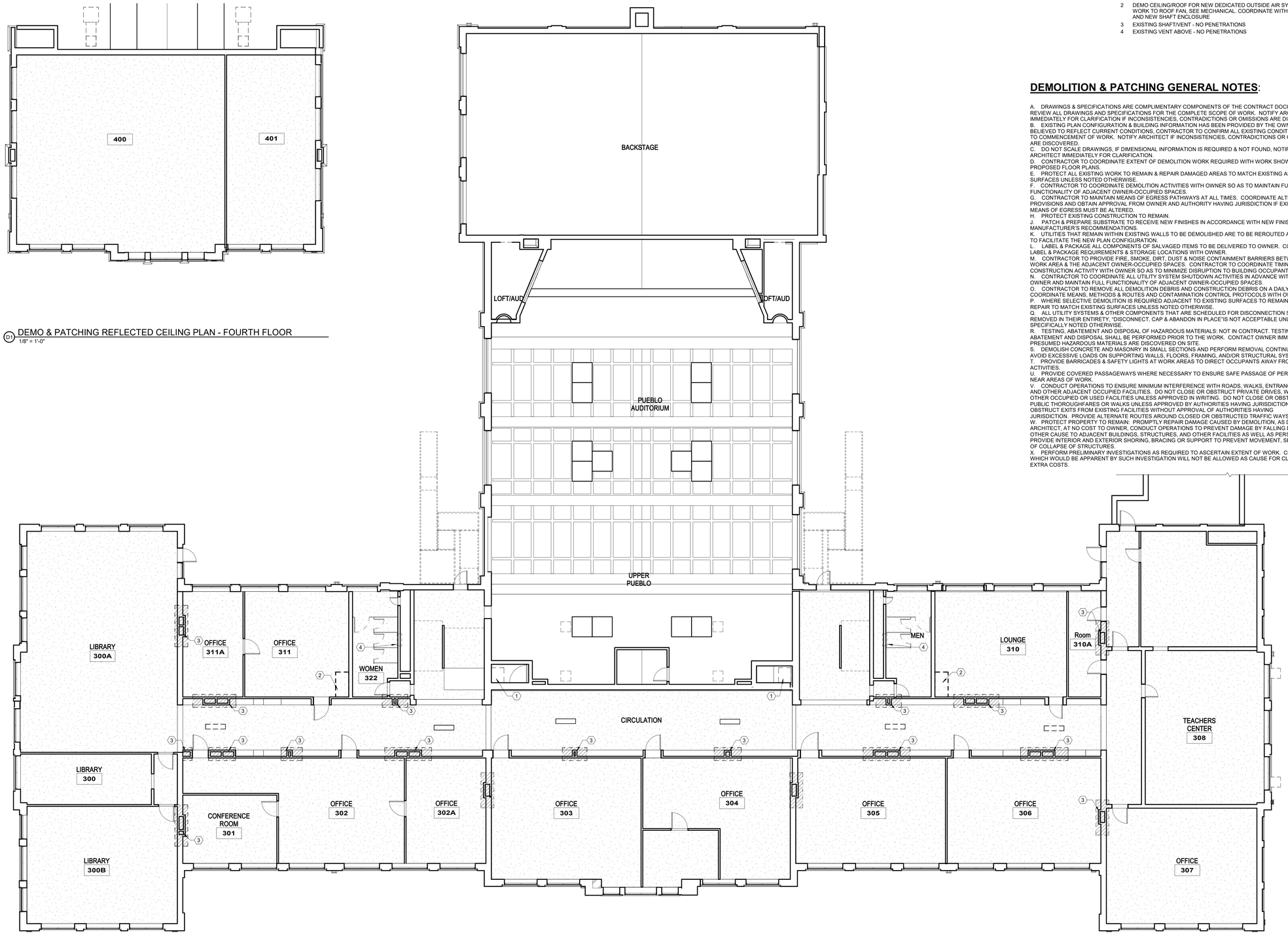
D1 DEMO & PATCHING REFLECTED CEILING PLAN - FOURTH FLOOR
1/8" = 1'-0"



A1 DEMO & PATCHING REFLECTED CEILING PLAN - THIRD FLOOR
1/8" = 1'-0"

0' 4' 8' 16' 32'

GENERAL SHEET NOTES

A. NONE

SHEET KEYNOTES

1. DEMO FLOOR/CEILING BELOW FOR NEW MECHANICAL HEATING/COOLING DUCTWORK, SEE MECHANICAL. COORDINATE WITH STRUCTURE AND NEW SHAFT ENCLOSURE DETAILS
2. DEMO CEILING/ROOF FOR NEW DEDICATED OUTSIDE AIR SYSTEM DUCT WORK TO ROOF FAN, SEE MECHANICAL. COORDINATE WITH STRUCTURE AND NEW SHAFT ENCLOSURE
3. EXISTING SHAFT/VENT - NO PENETRATIONS
4. EXISTING VENT ABOVE - NO PENETRATIONS

DEMOLITION & PATCHING GENERAL NOTES:

A. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
B. EXISTING PLAN CONFIGURATION & BUILDING INFORMATION HAS BEEN PROVIDED BY THE OWNER AND BELIEVED TO REFLECT CURRENT CONDITIONS. CONTRACTOR TO CONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
C. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
D. CONTRACTOR TO COORDINATE EXTENT OF DEMOLITION WORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR PLANS.
E. PROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED AREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS NOTED OTHERWISE.
F. CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH OWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER-OCCUPIED SPACES.
G. CONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT ALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN APPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE ALTERED.
H. PROTECT EXISTING CONSTRUCTION TO REMAIN.
J. PATCH & PREPARE SUBSTRATE TO RECEIVE NEW FINISHES IN ACCORDANCE WITH NEW FINISH MATERIAL MANUFACTURER'S RECOMMENDATIONS.
K. UTILITIES THAT REMAIN WITHIN EXISTING WALLS TO BE DEMOLISHED ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE NEW PLAN CONFIGURATION.
L. LABEL & PACKAGE ALL COMPONENTS OF SALVAGED ITEMS TO BE DELIVERED TO OWNER. COORDINATE LABEL & PACKAGE REQUIREMENTS & STORAGE LOCATIONS WITH OWNER.
M. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST & NOISE CONTAINMENT BARRIERS BETWEEN THE WORK AREA & THE ADJACENT OWNER-OCCUPIED SPACES. CONTRACTOR TO COORDINATE TIMING CONSTRUCTION ACTIVITY WITH OWNER SO AS TO MINIMIZE DISRUPTION TO BUILDING OCCUPANTS.
N. CONTRACTOR TO COORDINATE ALL UTILITY SYSTEM SHUTDOWN ACTIVITIES IN ADVANCE WITH THE OWNER AND MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER-OCCUPIED SPACES.
O. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS ON A DAILY BASIS, COORDINATE MEANS, METHODS & ROUTES AND CONTAMINATION CONTROL PROTOCOLS WITH OWNER.
P. WHERE SELECTIVE DEMOLITION IS REQUIRED ADJACENT TO EXISTING SURFACES TO REMAIN, PATCH AND REPAIR TO MATCH EXISTING SURFACES UNLESS NOTED OTHERWISE.
Q. ALL UTILITY SYSTEMS & OTHER COMPONENTS THAT ARE SCHEDULED FOR DISCONNECTION SHALL BE REMOVED IN THEIR ENTIRETY. "DISCONNECT, CAP & ABANDON IN PLACE"IS NOT ACCEPTABLE UNLESS SPECIFICALLY NOTED OTHERWISE.
R. TESTING, ABATEMENT AND DISPOSAL OF HAZARDOUS MATERIALS: NOT IN CONTRACT. TESTING, ABATEMENT AND DISPOSAL SHALL BE PERFORMED PRIOR TO THE WORK. CONTACT OWNER IMMEDIATELY IF PRESUMED HAZARDOUS MATERIALS ARE DISCOVERED ON SITE.
S. DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS AND PERFORM REMOVAL CONTINUOUSLY TO AVOID EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, FRAMING, AND/OR STRUCTURAL SYSTEM.
T. PROVIDE BARRICADES & SAFETY LIGHTS AT WORK AREAS TO DIRECT OCCUPANTS AWAY FROM WORK ACTIVITIES.
U. PROVIDE COVERED PASSAGEWAYS WHERE NECESSARY TO ENSURE SAFE PASSAGE OF PERSONS IN OR NEAR AREAS OF WORK.
V. CONDUCT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, WALKS, ENTRANCES, EXITS, AND OTHER ADJACENT OCCUPIED FACILITIES. DO NOT CLOSE OR OBSTRUCT PRIVATE DRIVES, WALKS OR OTHER OCCUPIED OR USED FACILITIES UNLESS APPROVED IN WRITING. DO NOT CLOSE OR OBSTRUCT PUBLIC THOROUGHFARES OR WALKS UNLESS APPROVED BY AUTHORITIES HAVING JURISDICTION. DO NOT OBSTRUCT EXITS FROM EXISTING FACILITIES WITHOUT APPROVAL OF AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.
W. PROTECT PROPERTY TO REMAIN: PROMPTLY REPAIR DAMAGE CAUSED BY DEMOLITION, AS DIRECTED BY ARCHITECT, AT NO COST TO OWNER. CONDUCT OPERATIONS TO PREVENT DAMAGE BY FALLING DEBRIS OR OTHER CAUSE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AS WELL AS PERSONS, AND PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OF COLLAPSE OF STRUCTURES.
X. PERFORM PRELIMINARY INVESTIGATIONS AS REQUIRED TO ASCERTAIN EXTENT OF WORK. CONDITIONS WHICH WOULD BE APPARENT BY SUCH INVESTIGATION WILL NOT BE ALLOWED AS CAUSE FOR CLAIMS FOR EXTRA COSTS.

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RAIMUNDO MCCLAIN
No. 004757
REGISTERED ARCHITECT
JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	Author
Checked By	Checker

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SHEET TITLE
DEMO & PATCHING RCPS - THIRD & FOURTH FLOORS

SHEET
AD113

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SHEET KEYNOTES

1. EXISTING DOWNSPOUT TO REMAIN - PROTECT.
2. EXISTING DOOR TO REMAIN – NO WORK. PROTECT.
3. EXISTING MECHANICAL UNIT. DEMOLISH. PROVIDE NEW MECHANICAL UNIT AND CURB – SEE MECHANICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS.
4. EXISTING FIRE ESCAPE - NO WORK.
5. ADD ALT NO. 1: DEMOLISH EXISTING WINDOW, PREP OPENING, - SEE DETAILS
6. EXISTING BUILDING TO REMAIN – NO WORK UNLESS OTHERWISE INDICATED IN THE DRAWINGS.
7. NOT IN SCOPE
8. DEMO EXISTING WINDOW AIR CONDITIONING UNIT - DEMO COMPLETE, PREP OPENING, - SEE DETAILS
9. EXISTING WINDOW TO REMAIN - NO WORK, PROTECT.
10. REPLACE MISSING COPING, MATCH ADJACENT - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
11. REPAIR EXISTING JOINTS - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
12. REPAIR EXISTING COPING JOINT - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
13. REPOINT EXISTING BRICK WORK - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
14. NEW CHILLER WATER PIPERS - CORE WALLS AS REQUIRED - COORDINATE EXACT LOCATION WITH MECHANICAL.
15. NEW BOILER INTAKE AIR - CORE CORNERS AND SAWCUT BETWEEN, DO NOT OVERCUT - COORDINATE EXACT LOCATION WITH MECHANICAL
16. EXISTING EXTERIOR BUILDING JOINT. SURVEY AND RESTORE. SEE DETAILS - USE MASONRY ALLOWANCE, SEE GENERAL SHEET NOTES.

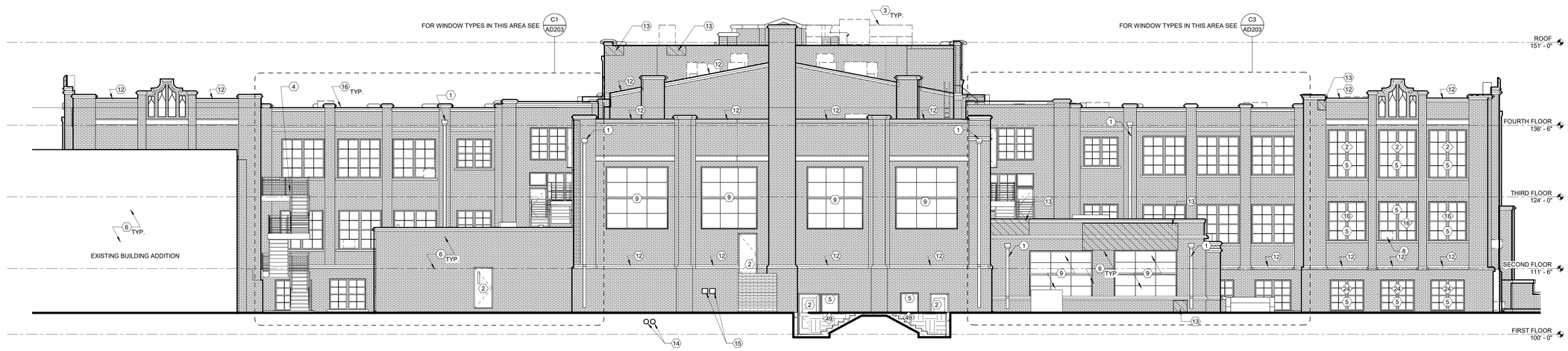
GENERAL SHEET NOTES

A. ALL WORK SHALL BE INCLUDED IN THE BASE BID UNLESS NOTED OTHERWISE.

B. MASONRY RESTORATION ALLOWANCE
EXTERIOR BRICK: SURVEY THE BUILDING EXTERIOR FOR BRICK POINTING. REPOINT AS DIRECTED BY THE ARCHITECT. FOR REPOINTING, PROVIDE UNIT COST PER LINEAR FOOT FOR REQUIRED MORTAR REMOVAL AND REPOINTING.

EXTERIOR STONE/PRECAST CONCRETE ELEMENTS: SURVEY THE BUILDING EXTERIOR FOR FAILING JOINTS BETWEEN STONE/PRECAST CONCRETE ELEMENTS AND ADJACENT CONSTRUCTION. FOR REPAIR OF JOINTS PROVIDE UNIT COST PER LINEAR FOOT FOR REMOVAL OF EXISTING MORTAR, PROVISION OF REPLACMENT MORTAR AND CAULKING JOINTS AS REQUIRED.

C1 DEMO & PATCHING EAST ELEVATION
1/8" = 1'-0"



A1 DEMO & PATCHING WEST ELEVATION
1/8" = 1'-0"

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Checked By	RM

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SHEET TITLE
DEMO & PATCHING ELEVATIONS

SHEET
AD201

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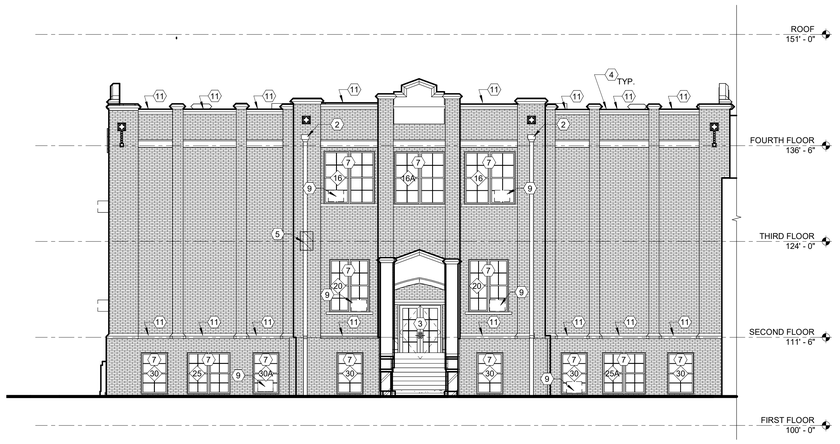
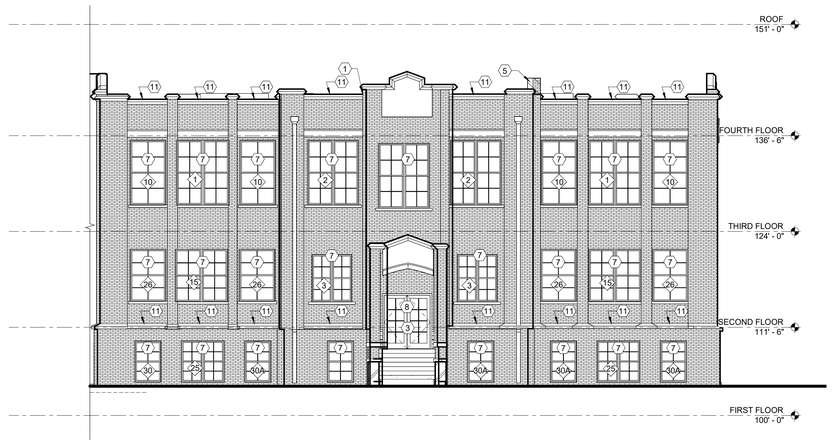


D1 DEMO & PATCHING NORTH ELEVATION
1/8" = 1'-0"



D3 DEMO & PATCHING SOUTH ELEVATION
1/8" = 1'-0"

GENERAL SHEET NOTES

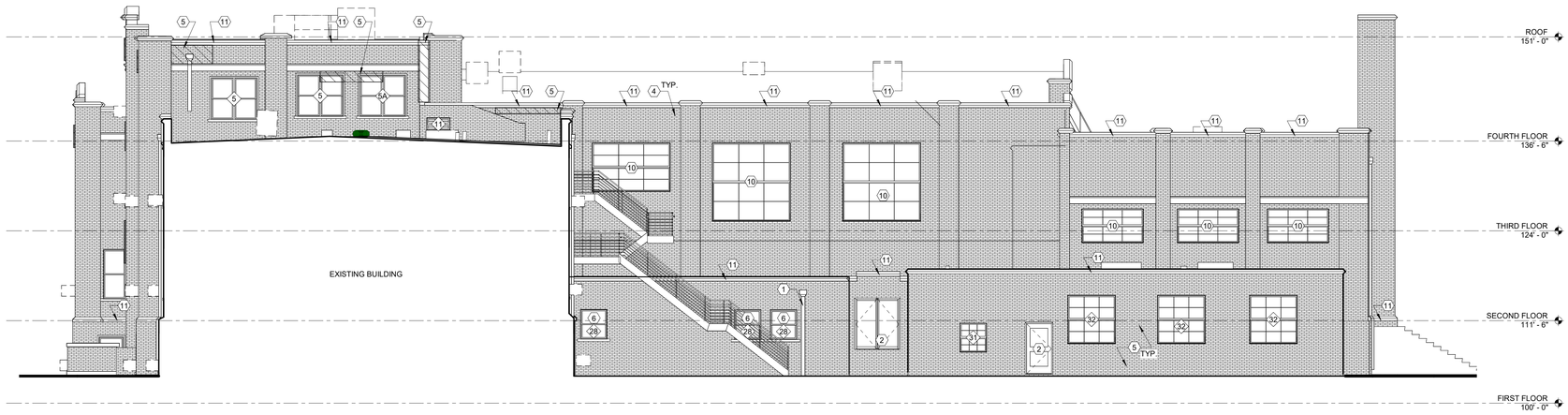
A. ALL WORK SHALL BE INCLUDED IN THE BASE BID UNLESS NOTED OTHERWISE.

B. MASONRY RESTORATION ALLOWANCE
EXTERIOR BRICK: SURVEY THE BUILDING EXTERIOR FOR BRICK POINTING. REPOINT AS DIRECTED BY THE ARCHITECT. FOR REPOINTING, PROVIDE UNIT COST PER LINEAR FOOT FOR REQUIRED MORTAR REMOVAL AND REPOINTING.

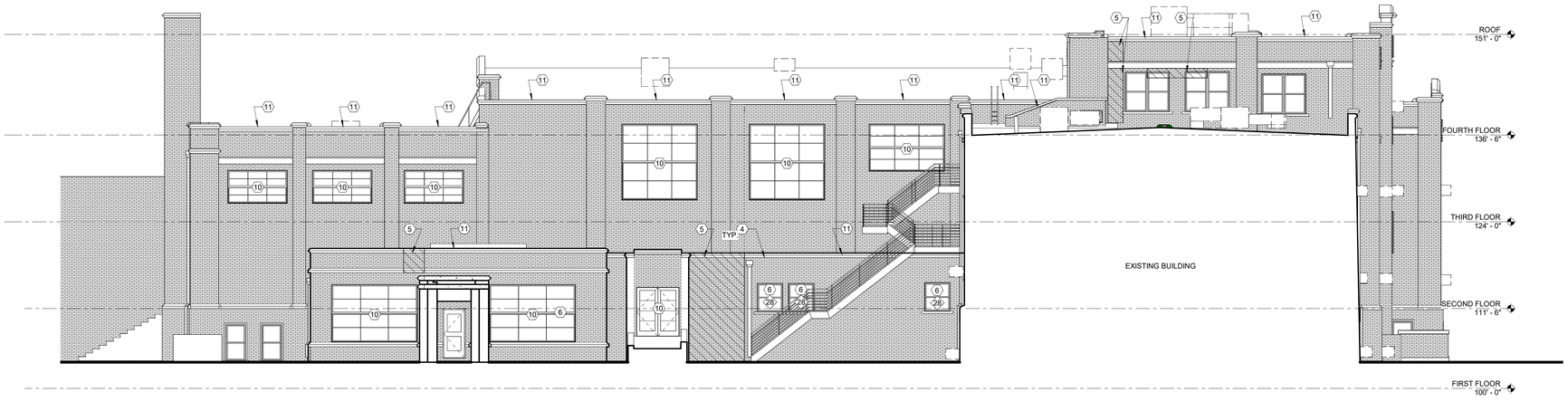
EXTERIOR STONE/PRECAST CONCRETE ELEMENTS: SURVEY THE BUILDING EXTERIOR FOR FAILING JOINTS BETWEEN STONE/PRECAST CONCRETE ELEMENTS AND ADJACENT CONSTRUCTION. FOR REPAIR OF JOINTS PROVIDE UNIT COST PER LINEAR FOOT FOR REMOVAL OF EXISTING MORTAR. PROVISION OF REPLACMENT MORTAR AND CAULKING JOINTS AS REQUIRED.

SHEET KEYNOTES

1 LOCATION OF MISSING STONE CAP - USE MASONRY ALLOWANCE, SEE GENERAL SHEET NOTES.
2 EXISTING DOWNSPOUT TO REMAIN - PROTECT.
3 EXISTING DOOR TO REMAIN – NO WORK. PROTECT.
4 EXISTING EXTERIOR BUILDING JOINT. SURVEY AND RESTORE. SEE DETAILS - USE MASONRY ALLOWANCE, SEE GENERAL SHEET NOTES.
5 PATCH & REPOINT EXISTING BRICK WORK - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
6 NOT USED
7 ADD ALT NO. 1: DEMOLISH EXISTING WINDOW, PREP OPENING, - SEE DETAILS
8 EXISTING DOOR - NOT IN SCOPE
9 INFILL FORMER PANEL FOR A/C WINDOW UNIT WITH 1/2" OR THINNER GLASS WITH FACE MOUNTED MULLION TO MATCH EXISTING ADJACENT WINDOW - CONFIRM IN FIELD
10 EXISTING WINDOW TO REMAIN - NO WORK, PROTECT.
11 REPAIR EXISTING COPING JOINT - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES



B1 NORTH ELEVATION
1/8" = 1'-0"



A1 SOUTH ELEVATION
1/8" = 1'-0"

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SHEET TITLE
DEMO & PATCHING ELEVATIONS

SHEET
AD202

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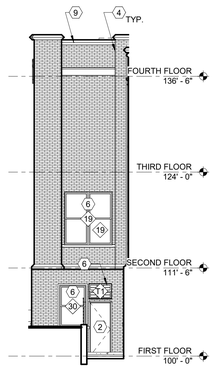
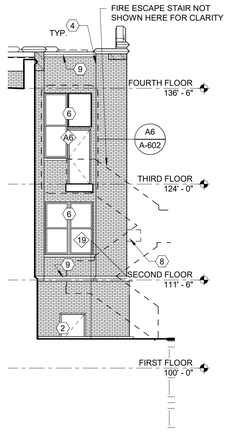
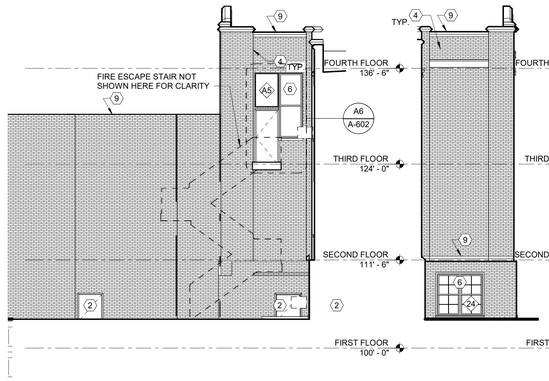


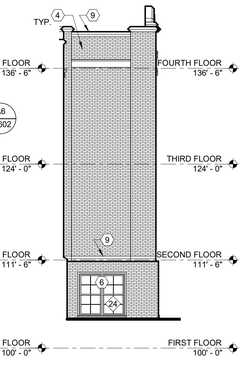
D1 NORTH ELEVATION
1/8" = 1'-0"



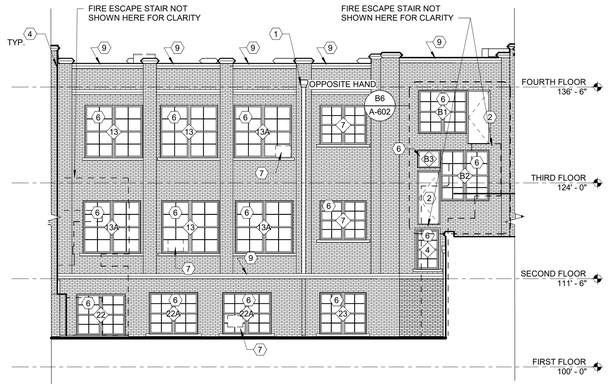
D2 NORTH ELEVATION
1/8" = 1'-0"



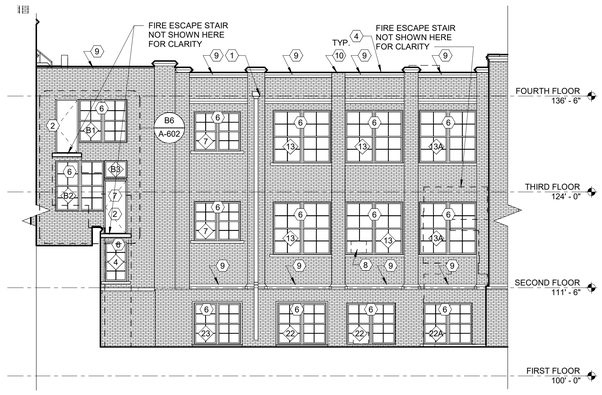
D3 SOUTH ELEVATION
1/8" = 1'-0"



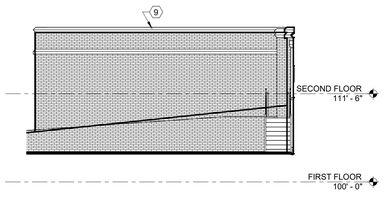
D4 SOUTH ELEVATION
1/8" = 1'-0"



C1 WEST ELEVATION
1/8" = 1'-0"



C3 WEST ELEVATION
1/8" = 1'-0"



C5 EAST ELEVATION
1/8" = 1'-0"

SHEET KEYNOTES

1. EXISTING DOWNSPOUT TO REMAIN - PROTECT.
2. EXISTING DOOR TO REMAIN – NO WORK. PROTECT.
3. NOT USED
4. EXISTING EXTERIOR BUILDING JOINT. SURVEY AND RESTORE. SEE DETAILS- USE MASONRY ALLOWANCE, SEE GENERAL SHEET NOTES.
5. EXISTING BUILDING TO REMAIN – NO WORK UNLESS OTHERWISE INDICATED IN THE DRAWINGS.
6. ADD ALT NO. 1: DEMOLISH EXISTING WINDOW, PREP OPENING, - SEE DETAILS
7. NOT IN SCOPE
8. DEMO EXISTING WINDOW AIR CONDITIONING UNIT - DEMO COMPLETE, PREP OPENING, - SEE DETAILS
9. REPAIR EXISTING COPING JOINT - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES
10. REPLACE MISSING COPING, MATCH ADJACENT - USE MASONRY REPAIR ALLOWANCE, SEE GENERAL SHEET NOTES

GENERAL SHEET NOTES

A. ALL WORK SHALL BE INCLUDED IN THE BASE BID UNLESS NOTED OTHERWISE.

B. MASONRY RESTORATION ALLOWANCE
EXTERIOR BRICK: SURVEY THE BUILDING EXTERIOR FOR BRICK POINTING. REPOINT AS DIRECTED BY THE ARCHITECT. FOR REPOINTING, PROVIDE UNIT COST PER LINEAR FOOT FOR REQUIRED MORTAR REMOVAL AND REPOINTING.

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JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

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300 N. KENTUCKY,
ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JBS
Checked By	RM

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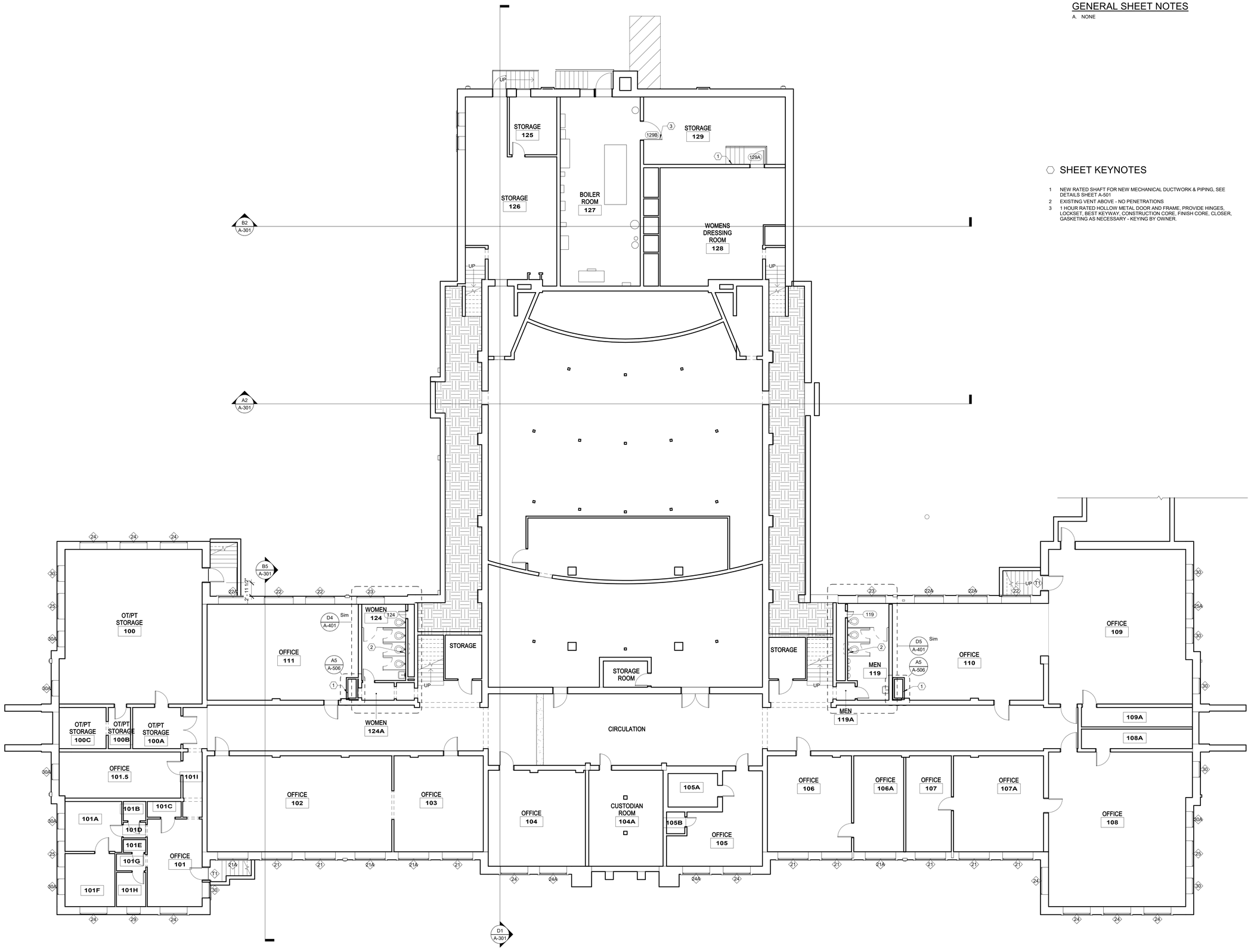
SHEET TITLE
DEMO & PATCHING COURTYARD ELEVATIONS

SHEET
AD203



A1 FIRST FLOOR PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

GENERAL SHEET NOTES

A. NONE

SHEET KEYNOTES

1 NEW RATED SHAFT FOR NEW MECHANICAL DUCTWORK & PIPING, SEE DETAILS SHEET A-501

2 EXISTING VENT ABOVE - NO PENETRATIONS

3 1 HOUR RATED HOLLOW METAL DOOR AND FRAME, PROVIDE HINGES, LOCKSET, BEST KEYWAY, CONSTRUCTION CORE, FINISH CORE, CLOSER, GASKETING AS NECESSARY - KEYING BY OWNER.

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SHEET TITLE

FIRST FLOOR PLAN

SHEET

A-101

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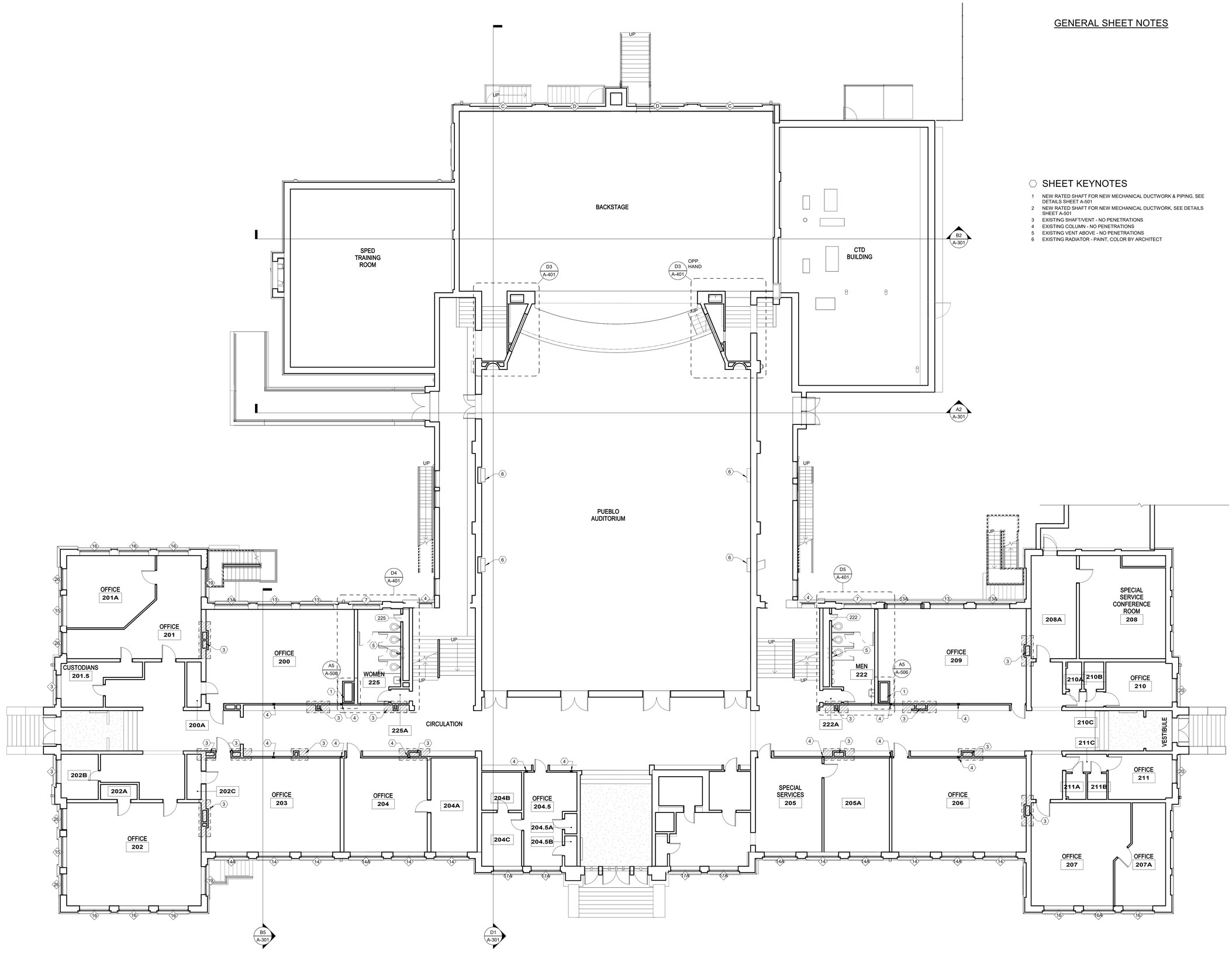

A1 SECOND FLOOR PLAN
1/8" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES

1. NEW RATED SHAFT FOR NEW MECHANICAL DUCTWORK & PIPING, SEE DETAILS SHEET A-501
2. NEW RATED SHAFT FOR NEW MECHANICAL DUCTWORK, SEE DETAILS SHEET A-501
3. EXISTING SHAFT/VENT - NO PENETRATIONS
4. EXISTING COLUMN - NO PENETRATIONS
5. EXISTING VENT ABOVE - NO PENETRATIONS
6. EXISTING RADIATOR - PAINT, COLOR BY ARCHITECT

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SHEET TITLE
SECOND FLOOR PLAN

SHEET
A-102

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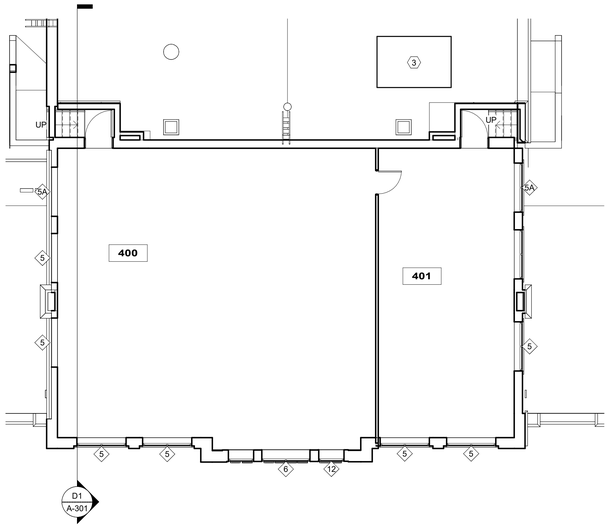
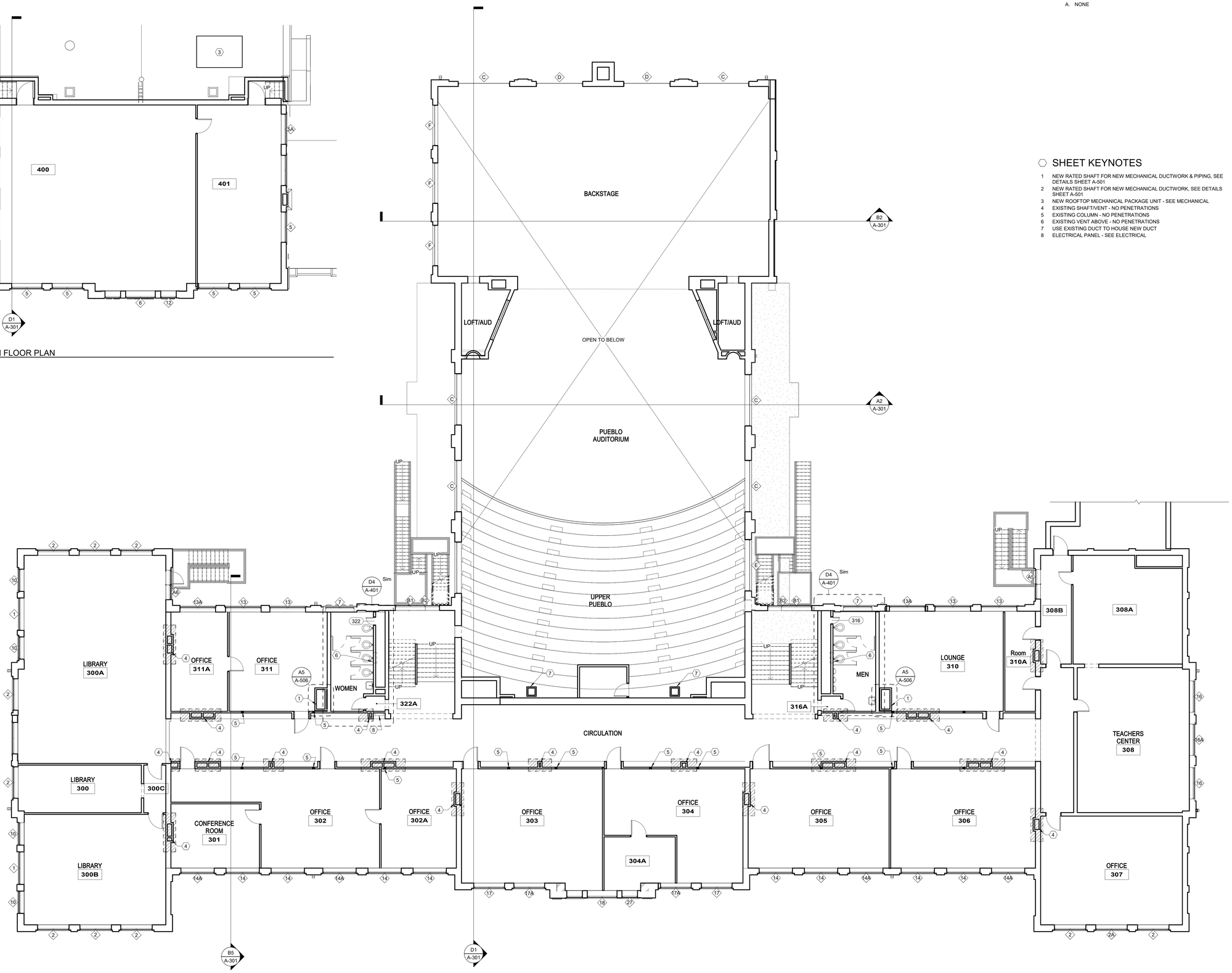


D1 FOURTH FLOOR PLAN
1/8" = 1'-0"



A1 THIRD FLOOR PLAN
1/8" = 1'-0"

GENERAL SHEET NOTES

A. NONE

SHEET KEYNOTES

1 NEW RATED SHAFT FOR NEW MECHANICAL DUCTWORK & PIPING, SEE DETAILS SHEET A-501
2 NEW RATED SHAFT FOR NEW MECHANICAL DUCTWORK, SEE DETAILS SHEET A-501
3 NEW ROOFTOP MECHANICAL PACKAGE UNIT - SEE MECHANICAL
4 EXISTING SHAFT/VENT - NO PENETRATIONS
5 EXISTING COLUMN - NO PENETRATIONS
6 EXISTING VENT ABOVE - NO PENETRATIONS
7 USE EXISTING DUCT TO HOUSE NEW DUCT
8 ELECTRICAL PANEL - SEE ELECTRICAL

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STATE OF NEW MEXICO
RAIMUNDO MCCLAIN
No. 004757
REGISTERED ARCHITECT
JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
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PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

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SHEET TITLE
THIRD & FOURTH FLOOR PLANS

SHEET
A-103

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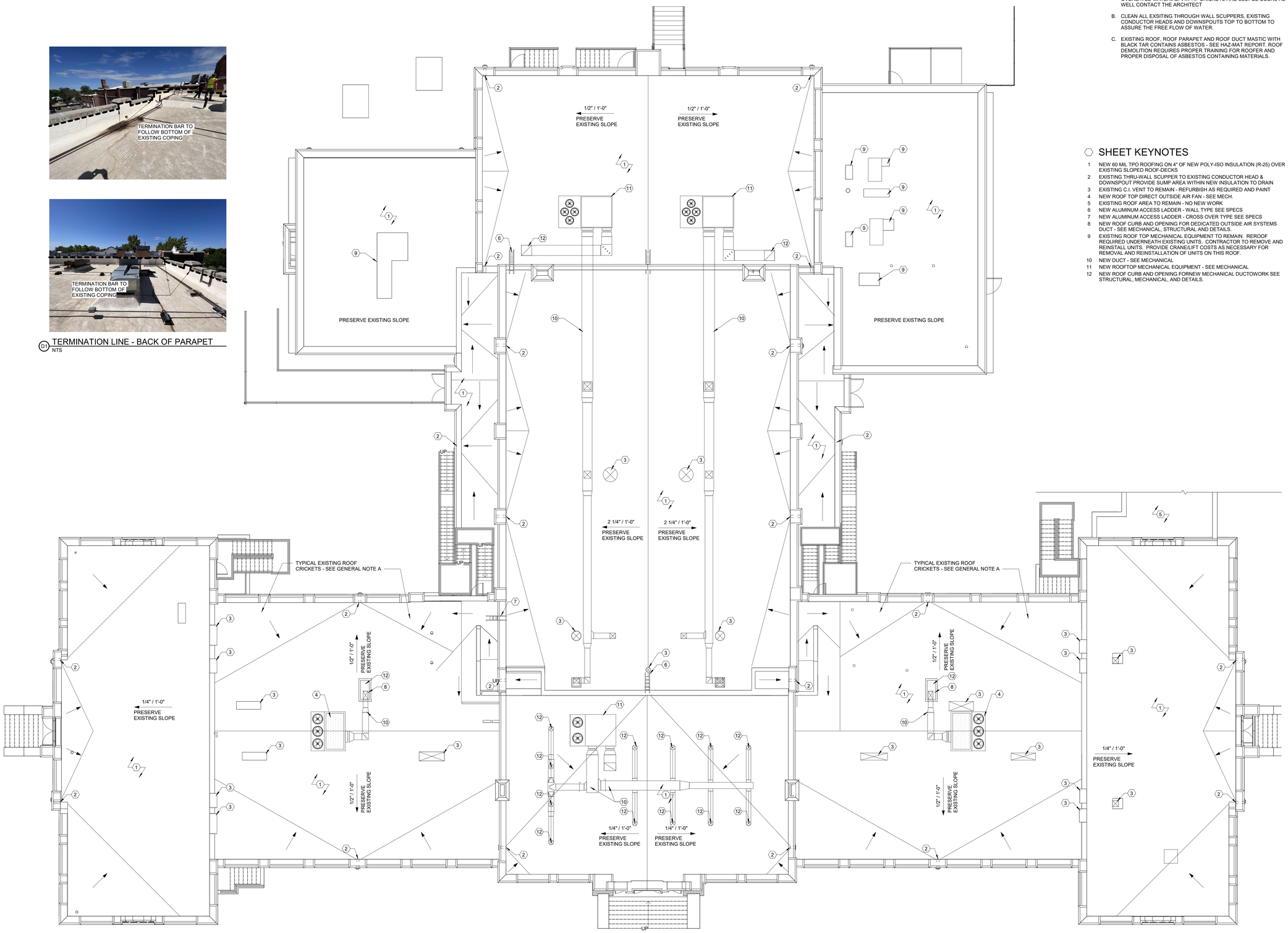
D1 TERMINATION LINE - BACK OF PARAPET
NTS



A1 ROOF PLAN
1/8" = 1'-0"

GENERAL SHEET NOTES

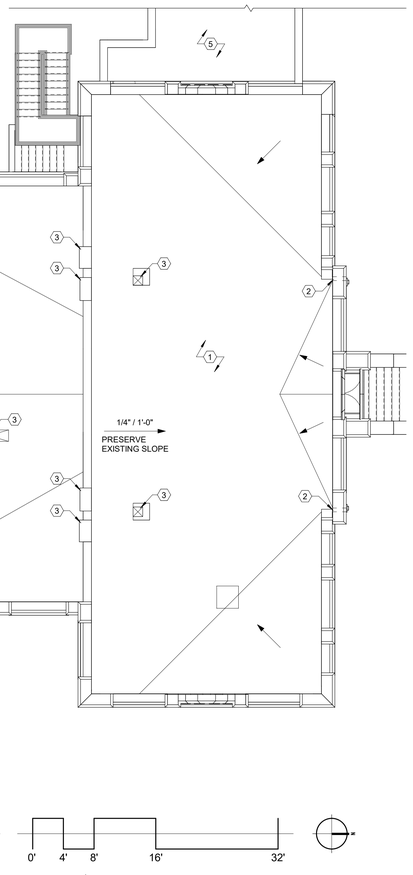
A. MAIN ROOF SLOPES ARE SLOPED DECKS. CRICKETS ARE ASSUMED OVERLAYED MATERIAL. V.I.F. IF CRICKETS ARE SLOPED DECKS AS WELL CONTACT THE ARCHITECT

B. CLEAN ALL EXSITING THROUGH WALL SCUPPERS, EXISTING CONDUCTOR HEADS AND DOWNSPOUTS TOP TO BOTTOM TO ASSURE THE FREE FLOW OF WATER.

C. EXISTING ROOF, ROOF PARAPET AND ROOF DUCT MASTIC WITH BLACK TAR CONTAINS ASBESTOS - SEE HAZ-MAT REPORT. ROOF DEMOLITION REQUIRES PROPER TRAINING FOR ROOFER AND PROPER DISPOSAL OF ASBESTOS CONTAINING MATERIALS.

SHEET KEYNOTES

1 NEW 60 MIL TPO ROOFING ON 4" OF NEW POLY-ISO INSULATION (R-25) OVER EXISTING SLOPED ROOF-DECKS
2 EXISTING THRU-WALL SCUPPER TO EXISTING CONDUCTOR HEAD & DOWNSPOUT PROVIDE SUMP AREA WITHIN NEW INSULATION TO DRAIN
3 EXISTING C.I. VENT TO REMAIN - REFURBISH AS REQUIRED AND PAINT
4 NEW ROOF TOP DIRECT OUTSIDE AIR FAN - SEE MECH.
5 EXISTING ROOF AREA TO REMAIN - NO NEW WORK
6 NEW ALUMINUM ACCESS LADDER - WALL TYPE SEE SPECS
7 NEW ALUMINUM ACCESS LADDER - CROSS OVER TYPE SEE SPECS
8 NEW ROOF CURB AND OPENING FOR DEDICATED OUTSIDE AIR SYSTEMS DUCT - SEE MECHANICAL, STRUCTURAL AND DETAILS.
9 EXISTING ROOF TOP MECHANICAL EQUIPMENT TO REMAIN. REROOF REQUIRED UNDERNEATH EXISTING UNITS. CONTRACTOR TO REMOVE AND REINSTALL UNITS. PROVIDE CRANE/LIFT COSTS AS NECESSARY FOR REMOVAL AND REINSTALLATION OF UNITS ON THIS ROOF.
10 NEW DUCT - SEE MECHANICAL
11 NEW ROOFTOP MECHANICAL EQUIPMENT - SEE MECHANICAL
12 NEW ROOF CURB AND OPENING FORNEW MECHANICAL DUCTOWORK SEE STRUCTURAL, MECHANICAL, AND DETAILS.



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SHEET TITLE
ROOF PLAN

SHEET
A-104

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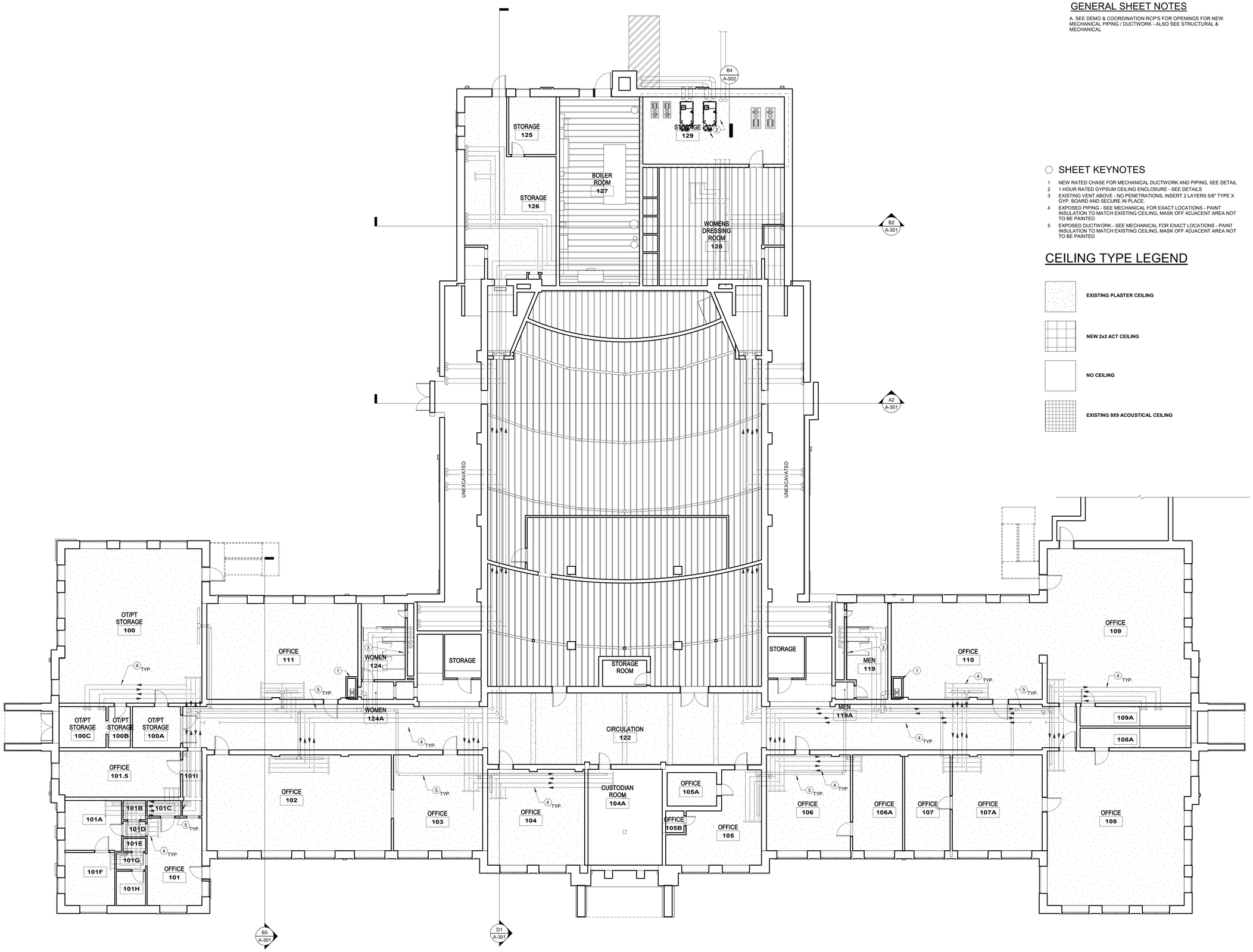

A1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL SHEET NOTES

A. SEE DEMO & COORDINATION RCP'S FOR OPENINGS FOR NEW MECHANICAL PIPING / DUCTWORK - ALSO SEE STRUCTURAL & MECHANICAL

SHEET KEYNOTES

1. NEW RATED CHASE FOR MECHANICAL DUCTWORK AND PIPING, SEE DETAIL
2. 1 HOUR RATED GYPSUM CEILING ENCLOSURE - SEE DETAILS
3. EXISTING VENT ABOVE - NO PENETRATIONS, INSERT 2 LAYERS 5/8" TYPE X GYP. BOARD AND SECURE IN PLACE.
4. EXPOSED PIPING - SEE MECHANICAL FOR EXACT LOCATIONS - PAINT INSULATION TO MATCH EXISTING CEILING, MASK OFF ADJACENT AREA NOT TO BE PAINTED
5. EXPOSED DUCTWORK - SEE MECHANICAL FOR EXACT LOCATIONS - PAINT INSULATION TO MATCH EXISTING CEILING, MASK OFF ADJACENT AREA NOT TO BE PAINTED

CEILING TYPE LEGEND

- EXISTING PLASTER CEILING
- NEW 2x2 ACT CEILING
- NO CEILING
- EXISTING 9X9 ACOUSTICAL CEILING

0' 4' 8' 16' 32'

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SHEET TITLE
FIRST FLOOR REFLECTED CEILING PLAN

SHEET
A-111

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GENERAL SHEET NOTES

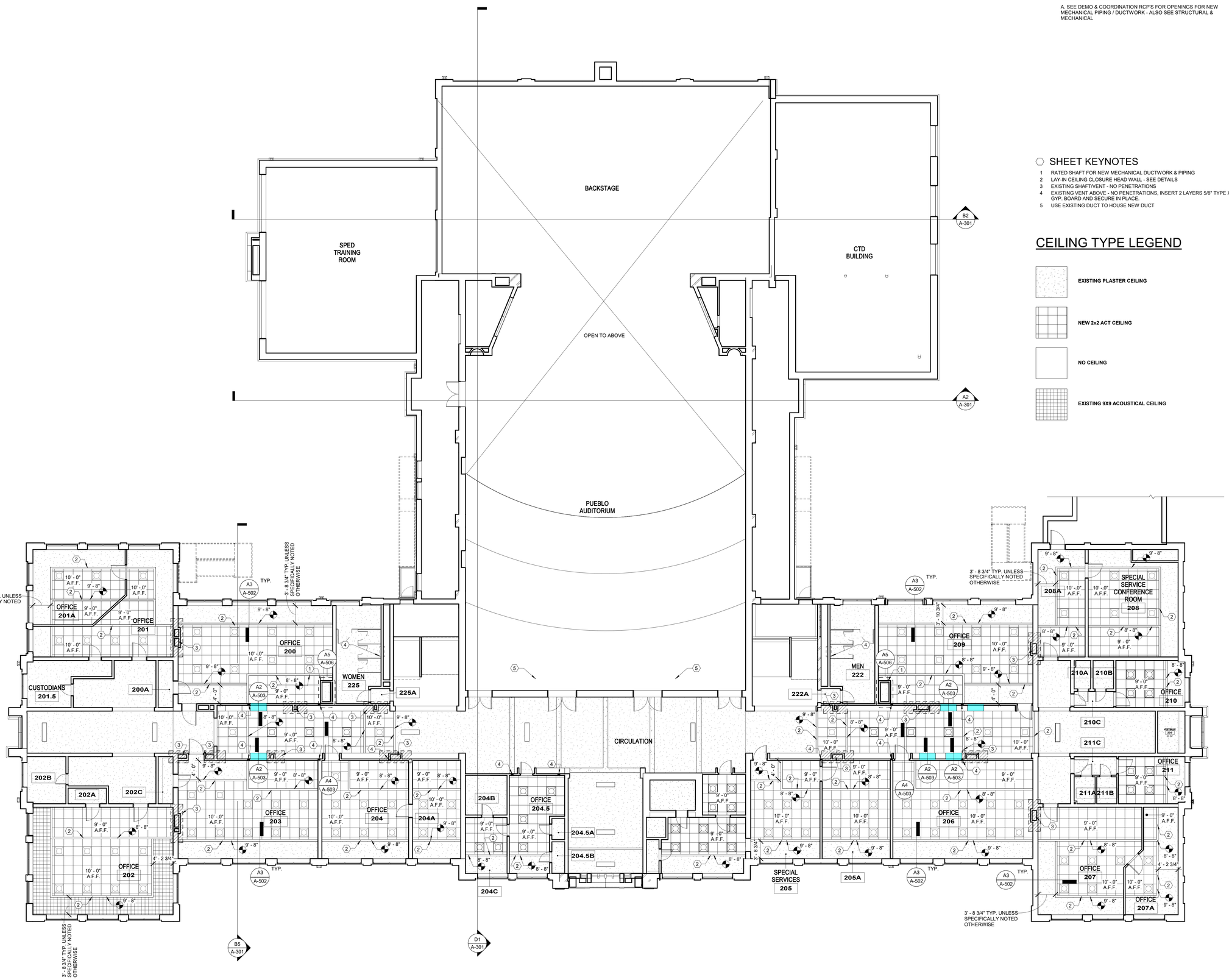
A. SEE DEMO & COORDINATION RCP'S FOR OPENINGS FOR NEW MECHANICAL PIPING / DUCTWORK - ALSO SEE STRUCTURAL & MECHANICAL

SHEET KEYNOTES

1. RATED SHAFT FOR NEW MECHANICAL DUCTWORK & PIPING
2. LAY-IN CEILING CLOSURE HEAD WALL - SEE DETAILS
3. EXISTING SHAFT/VENT - NO PENETRATIONS
4. EXISTING VENT ABOVE - NO PENETRATIONS, INSERT 2 LAYERS 5/8" TYPE X GYP. BOARD AND SECURE IN PLACE.
5. USE EXISTING DUCT TO HOUSE NEW DUCT

CEILING TYPE LEGEND

- EXISTING PLASTER CEILING
- NEW 2x2 ACT CEILING
- NO CEILING
- EXISTING 9X9 ACOUSTICAL CEILING



A1 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

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SHEET TITLE

SECOND FLOOR REFLECTED CEILING PLAN

SHEET

A-112

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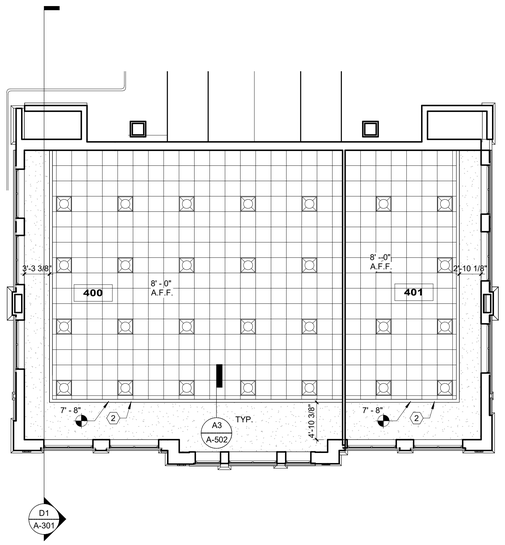
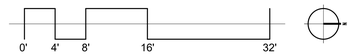
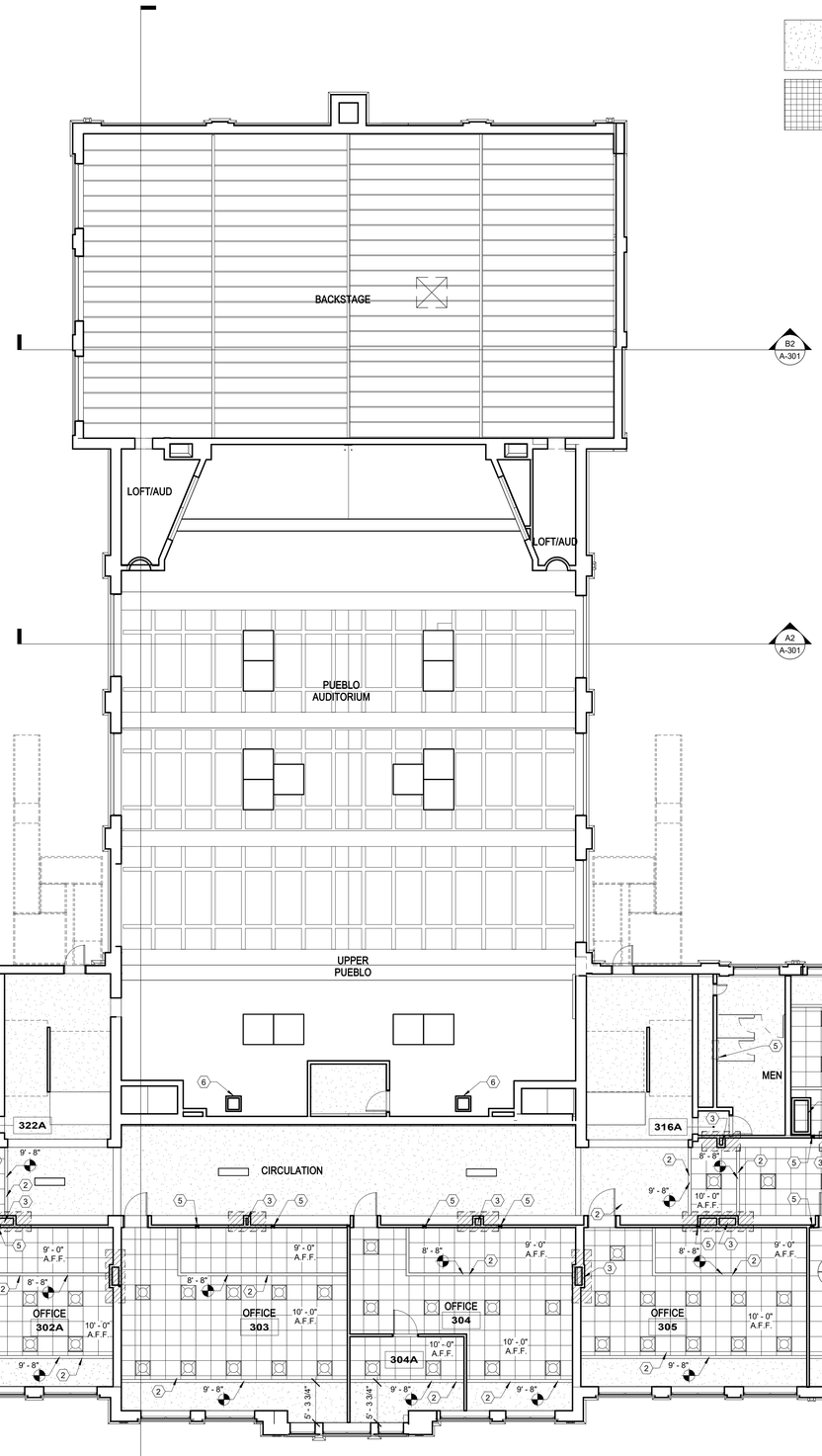
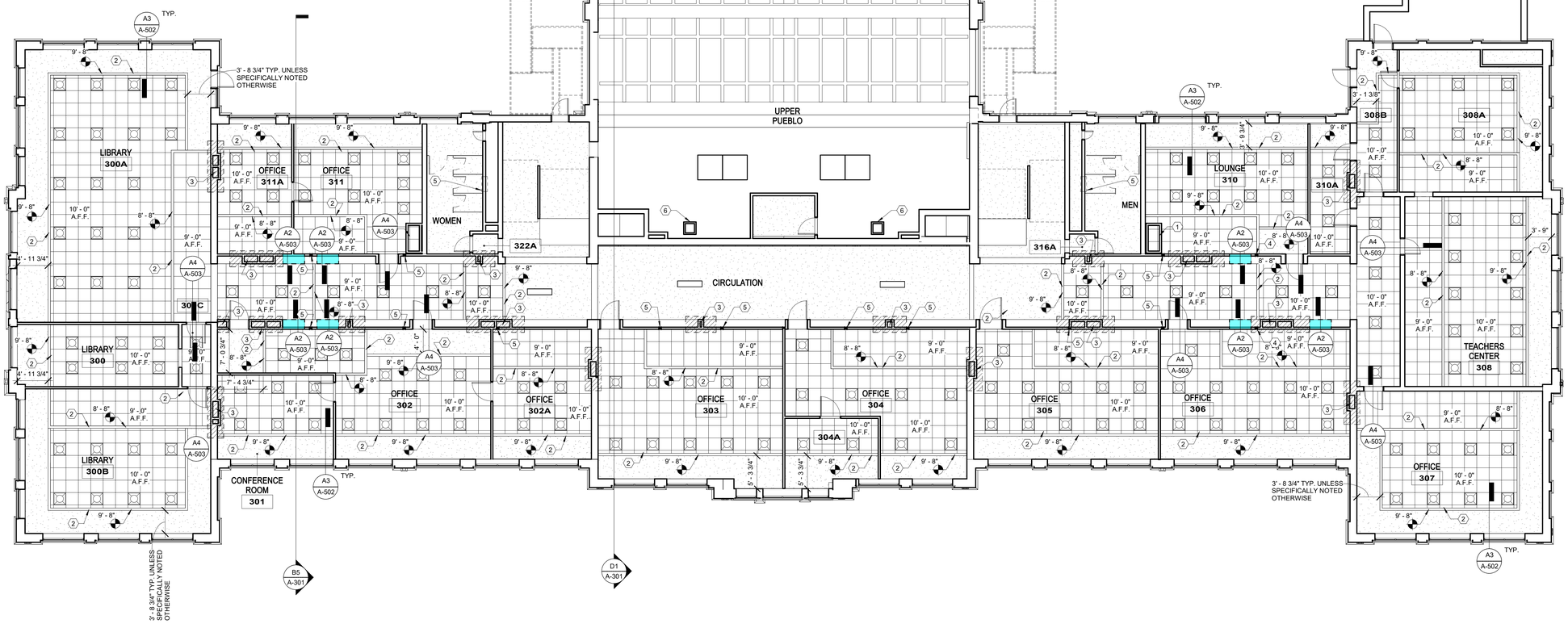


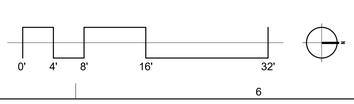
D1 FOURTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"







A1 THIRD FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



CEILING TYPE LEGEND

EXISTING PLASTER CEILING

EXISTING 9X9 ACOUSTICAL CEILING

GENERAL SHEET NOTES

A. SEE DEMO & COORDINATION RCP'S FOR OPENINGS FOR NEW MECHANICAL PIPING / DUCTWORK - ALSO SEE STRUCTURAL & MECHANICAL

SHEET KEYNOTES

1. NEW RATED CHASE FOR MECHANICAL DUCTWORK AND PIPING, SEE DETAIL
2. NEW LAYIN CEILING CLOSURE HEAD WALL, SEE DETAILS
3. EXISTING SHAFT/VENT - NO PENETRATIONS
4. EXISTING COLUMN - NO PENETRATIONS
5. EXISTING VENT ABOVE - NO PENETRATIONS, INSERT 2 LAYERS 5/8" TYPE X GYP. BOARD AND SECURE IN PLACE.
6. USE EXISTING DUCT TO HOUSE NEW DUCT

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SHEET TITLE

THIRD & FOURTH FLOOR REFLECTED CEILING PLAN

SHEET

A-113

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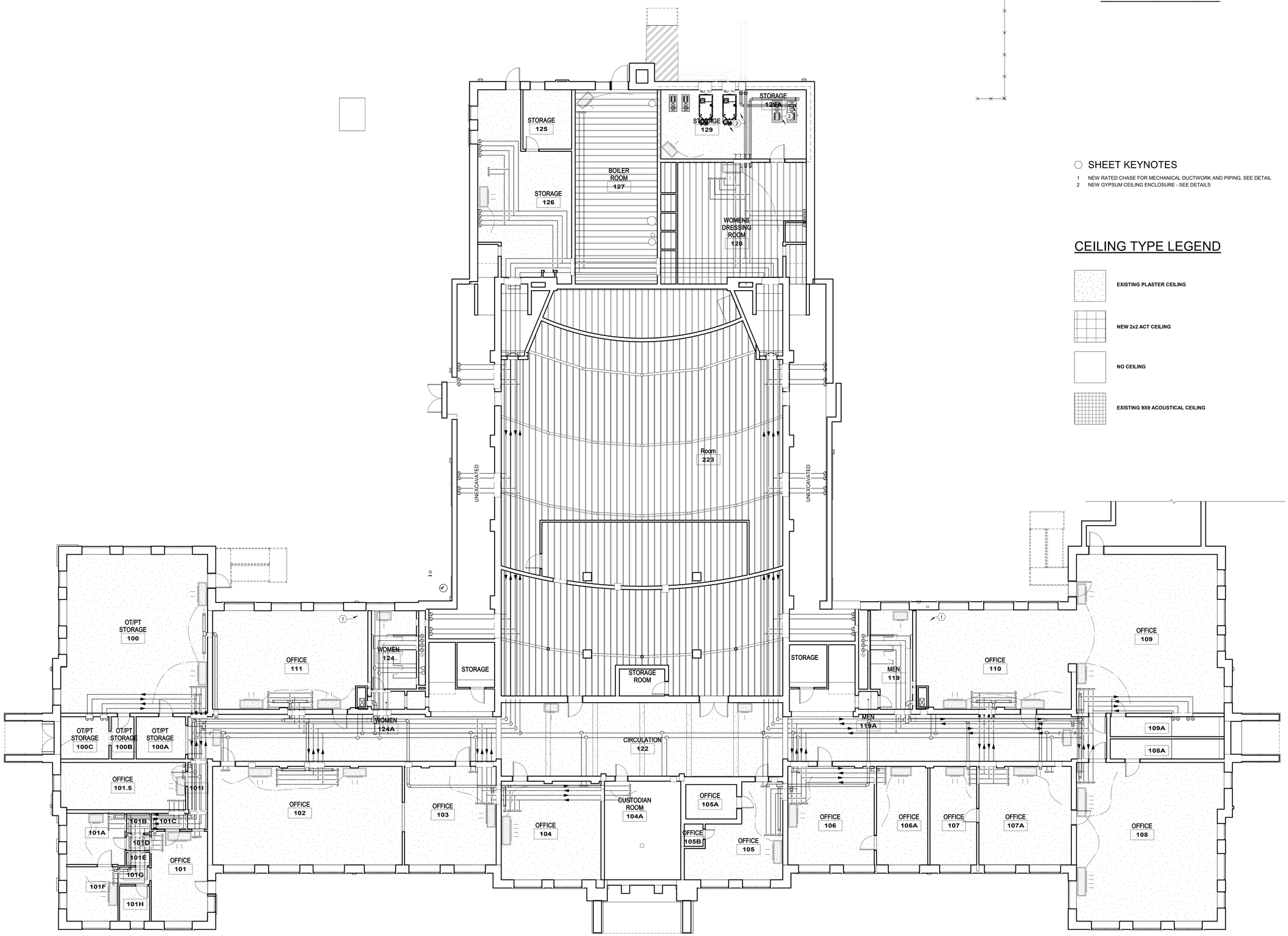

A1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL SHEET NOTES

SHEET KEYNOTES

1 NEW RATED CHASE FOR MECHANICAL DUCTWORK AND PIPING, SEE DETAIL
2 NEW GYPSUM CEILING ENCLOSURE - SEE DETAILS

CEILING TYPE LEGEND

EXISTING PLASTER CEILING

NEW 2x2 ACT CEILING

NO CEILING

EXISTING 9X9 ACOUSTICAL CEILING

0' 4' 8' 16' 32'

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SHEET TITLE
FIRST FLOOR COORDINATION RCP

SHEET
A-121

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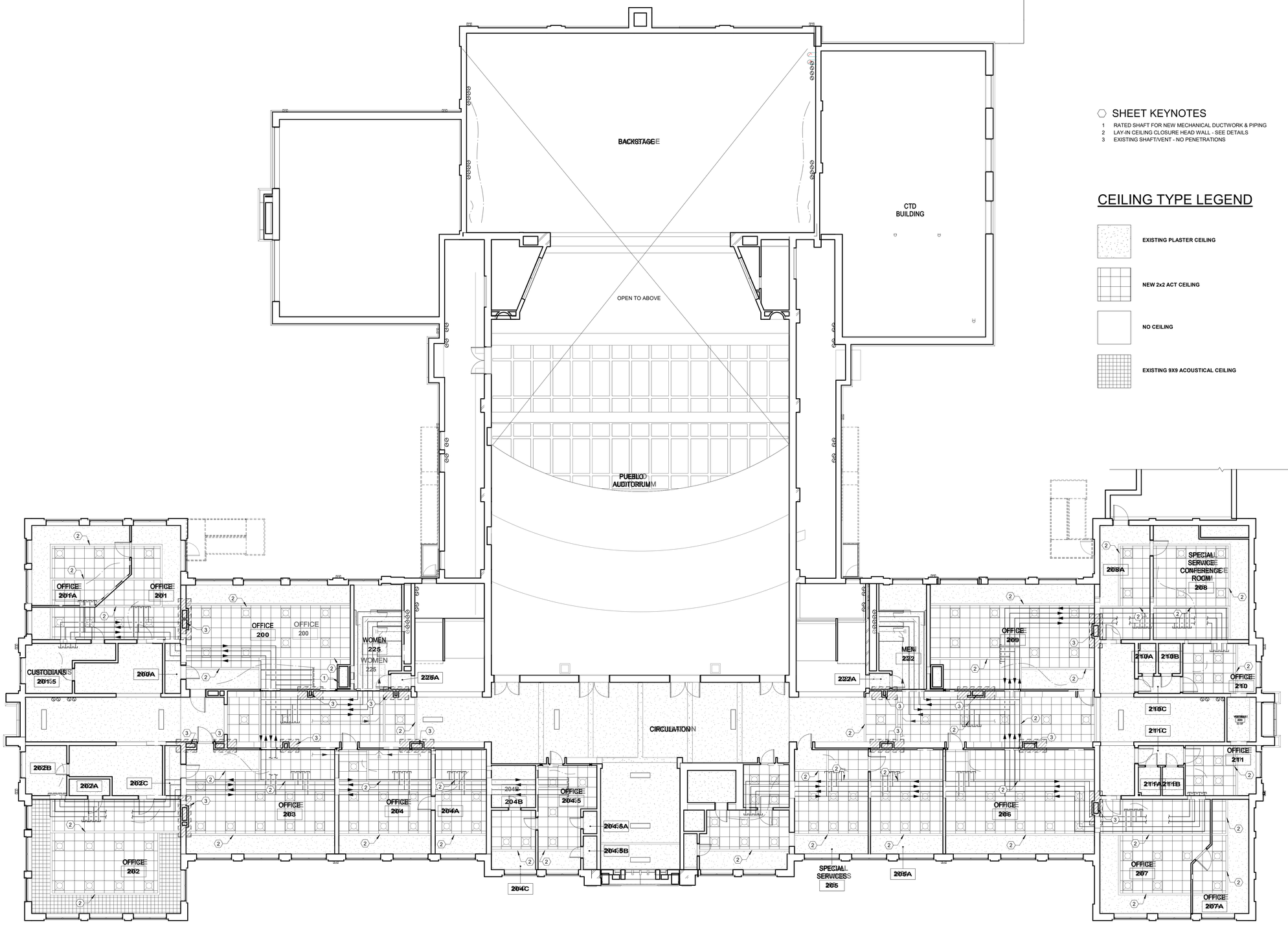
GENERAL SHEET NOTES

SHEET KEYNOTES

1 RATED SHAFT FOR NEW MECHANICAL DUCTWORK & PIPING
2 LAY-IN CEILING CLOSURE HEAD WALL - SEE DETAILS
3 EXISTING SHAFT/VENT - NO PENETRATIONS

CEILING TYPE LEGEND

- EXISTING PLASTER CEILING
- NEW 2x2 ACT CEILING
- NO CEILING
- EXISTING 9X9 ACOUSTICAL CEILING



A1 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

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SHEET TITLE
SECOND FLOOR COORDINATION RCP

SHEET
A-122

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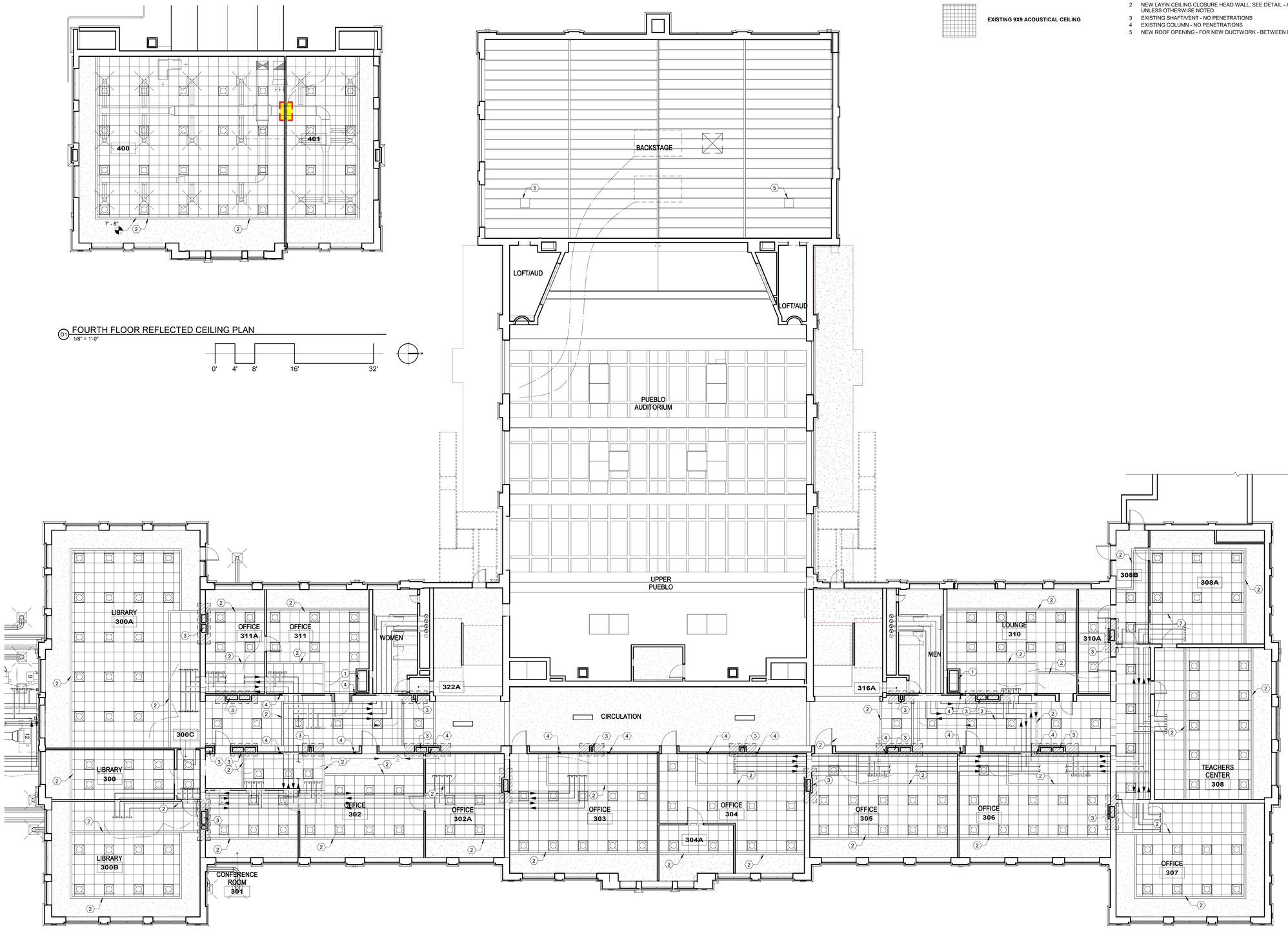
D1 FOURTH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'



A1 THIRD FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

CEILING TYPE LEGEND

EXISTING PLASTER CEILING

EXISTING 9X9 ACOUSTICAL CEILING

GENERAL SHEET NOTES

SHEET KEYNOTES

1. NEW RATED CHASE FOR MECHANICAL DUCTWORK AND PIPING, SEE DETAIL
2. NEW LAYIN CEILING CLOSURE HEAD WALL, SEE DETAIL - ALL EDGES UNLESS OTHERWISE NOTED
3. EXISTING SHAFT/VENT - NO PENETRATIONS
4. EXISTING COLUMN - NO PENETRATIONS
5. NEW ROOF OPENING - FOR NEW DUCTWORK - BETWEEN EXISTING JOIST

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SHEET TITLE

THIRD & FOURTH FLOOR COORDINATION RCP

SHEET

A-123

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SHEET KEYNOTES

1. EXISTING BRICK REPAIRS - SEE DEMOLITION ELEVATIONS AND ROOF PLAN FOR SCOPE.
2. EXISTING STONE/ CONCRETE REPAIRS/ REPLACEMENT - SEE DEMOLITION ELEVATIONS AND ROOF PLAN FOR SCOPE
3. EXISTING DOWNSPOUT TO REMAIN - PROTECT.
4. EXISTING DOOR TO REMAIN – NO WORK. PROTECT
5. EXISTING BUILDING TO REMAIN – NO WORK UNLESS OTHER|WISE INDICATED IN THE DRAWINGS.
6. EXISTING FIRE ESCAPE - NO WORK.
7. ADD ALT NO. 1: AT LOCATIONS OF DEMOLISHED WINDOWS - PROVIDE REPLACEMENT WINDOW - SEE DETAILS
8. EXISTING WINDOW TO REMAIN -NO WORK. PROTECT.
9. EXISTING FENESTRATION TO REMAIN - NO WORK, PROTECT.
10. BASE BID - INFILL FORMER PANEL FOR A/C WINDOW UNIT WITH 1/2" OR THINNER GLASS WITH FACE MOUNTED MULLION TO MATCH EXISTING ADJACENT WINDOW - CONFIRM IN FIELD
11. NEW BOILER AIR INTAKES - SEE DEMO AND MECHANICAL
12. NEW BOILER HOT AIR FLUES EXTEND TO 4' ABOVE PARAPET - SEE MECHANICAL - PAINT, COLOR BY ARCHITECT
13. NEW DUCTWORK - SEE MECHANICAL - PAINT, COLOR BY ARCHITECT

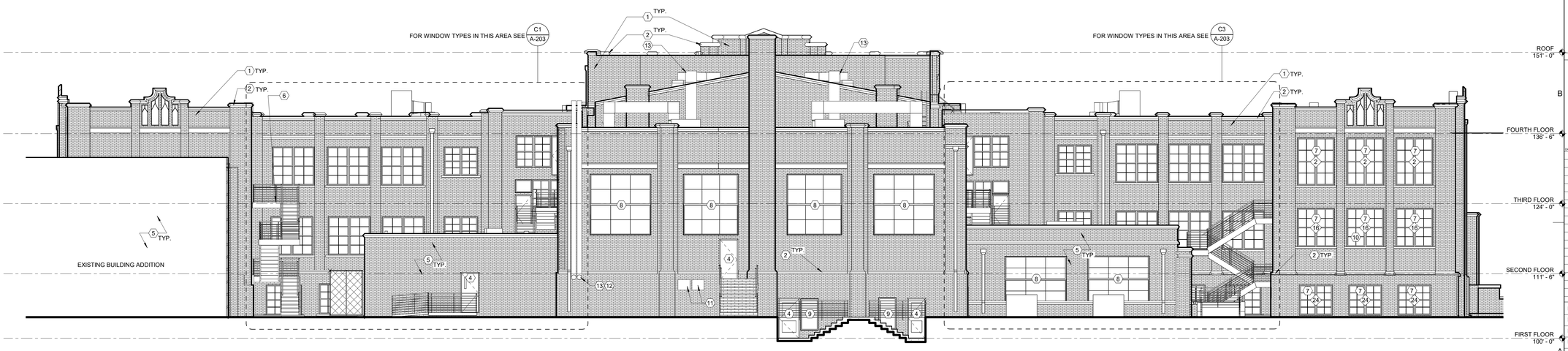
GENERAL SHEET NOTES

A. ALL WORK SHALL BE INCLUDED IN THE BASE BID UNLESS NOTED OTHERWISE.

B. MASONRY RESTORATION ALLOWANCE -
EXISTING BRICK: SEE DEMO & SPECIFICATIONS

EXTERIOR STONE/PRECAST CONCRETE ELEMENTS: SEE PLANS & SPECIFICATIONS

C1 EAST ELEVATION
1/8" = 1'-0"



A1 WEST ELEVATION
1/8" = 1'-0"

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SHEET TITLE

ELEVATIONS

SHEET

A-201

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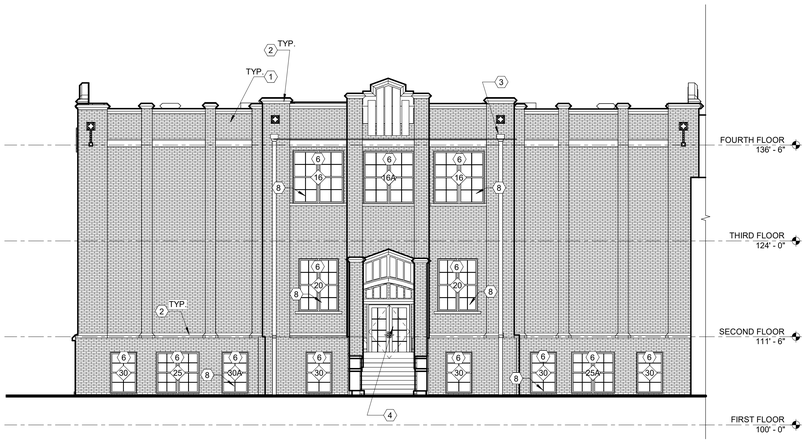
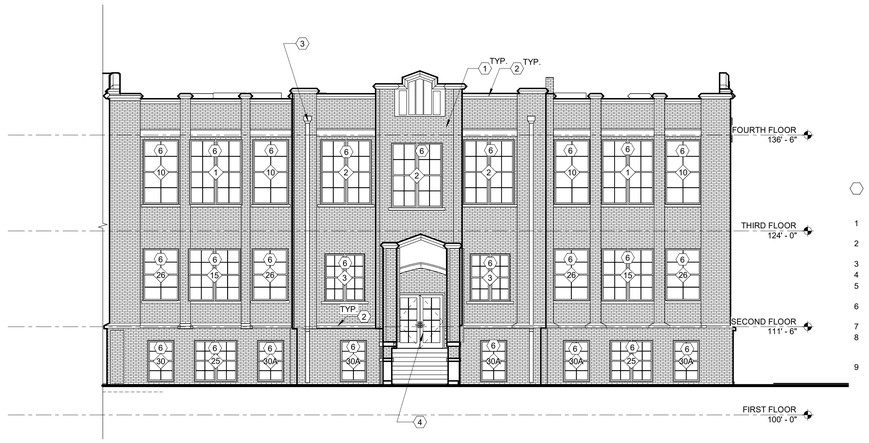


D1 NORTH ELEVATION
1/8" = 1'-0"



D3 SOUTH ELEVATION
1/8" = 1'-0"

GENERAL SHEET NOTES

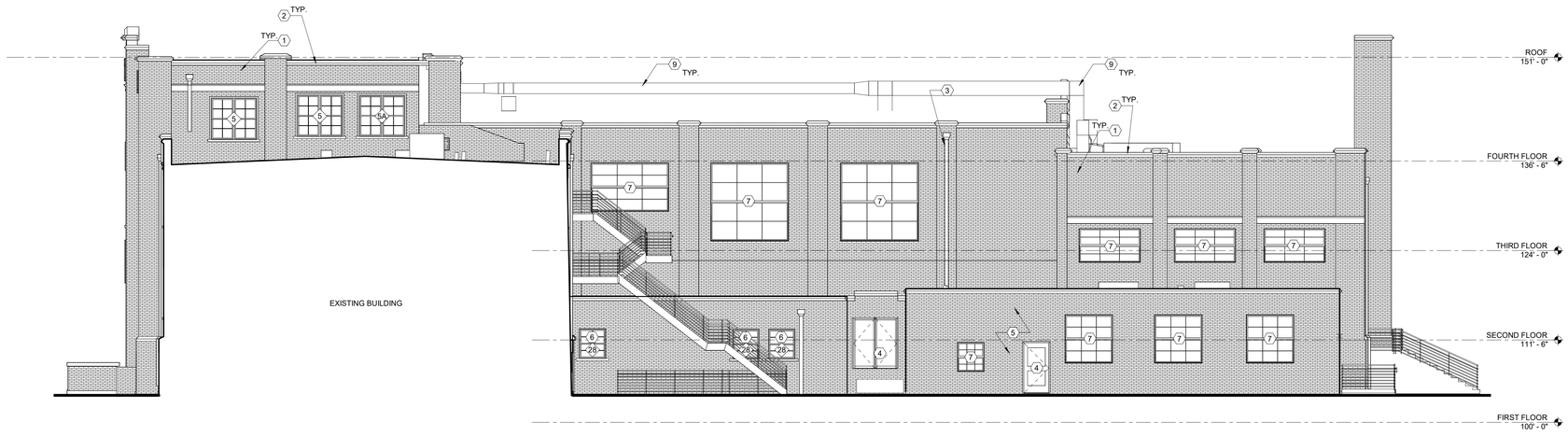
A. ALL WORK SHALL BE INCLUDED IN THE BASE BID UNLESS NOTED OTHERWISE.

B. MASONRY RESTORATION ALLOWANCE
EXISTING BRICK: SEE DEMO & SPECIFICATIONS

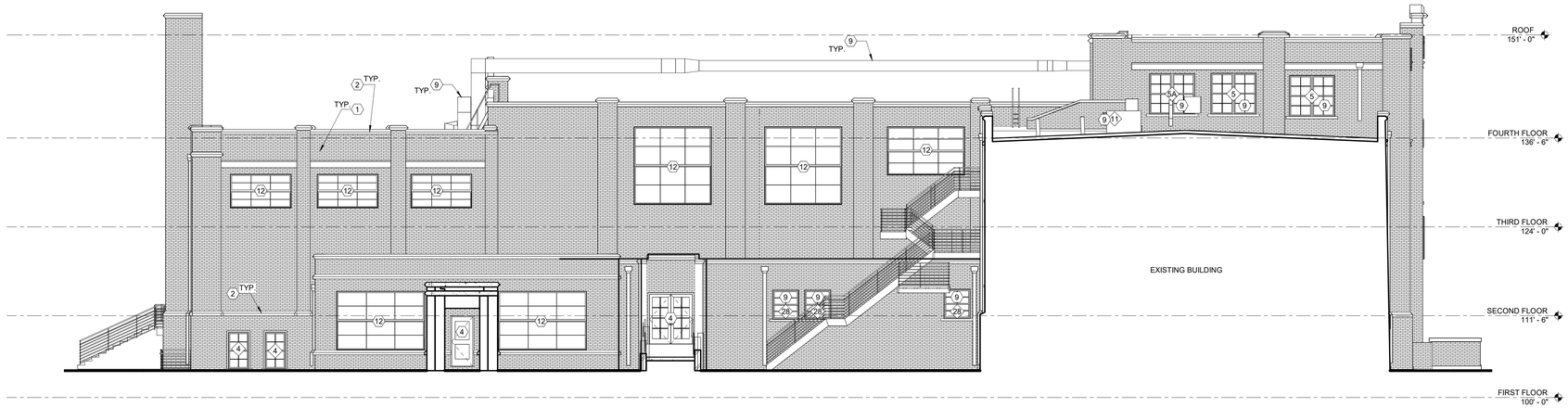
EXTERIOR STONE/PRECAST CONCRETE ELEMENTS: SEE PLANS AND SPECIFICATIONS

SHEET KEYNOTES

1. EXISTING BRICK REPAIRS - SEE DEMOLITION ELEVATIONS AND ROOF PLAN FOR SCOPE.
2. EXISTING STONE/ CONCRETE REPAIRS/ REPLACEMENT - SEE DEMOLITION ELEVATIONS AND ROOF PLAN FOR SCOPE
3. EXISTING DOWNSPOUT TO REMAIN - PROTECT.
4. EXISTING DOOR TO REMAIN – NO WORK. PROTECT
5. EXISTING BUILDING TO REMAIN – NO WORK UNLESS OTHERWISE INDICATED IN THE DRAWINGS.
6. ADD ALT NO. 1: AT LOCATIONS OF DEMOLISHED WINDOWS - PROVIDE REPLACEMENT WINDOW - SEE DETAILS
7. EXISTING WINDOW TO REMAIN -NO WORK. PROTECT.
8. BASE BID - INFILL FORMER PANEL FOR A/C WINDOW UNIT WITH 1/2" OR THINNER GLASS WITH FACE MOUNTED MULLION TO MATCH EXISTING ADJACENT WINDOW - CONFIRM IN FIELD
9. NEW DUCTWORK - SEE MECHANICAL - PAINT, COLOR BY ARCHITECT



B1 NORTH ELEVATION
1/8" = 1'-0"



A1 SOUTH ELEVATION
1/8" = 1'-0"

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CONSULTANTS

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No. 004757
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JANUARY 20, 2023

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Drawn By	JBS
Checked By	RM

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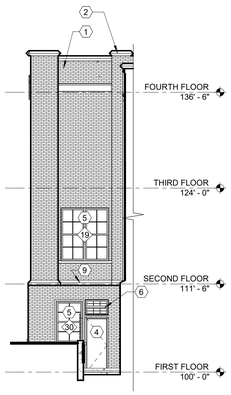
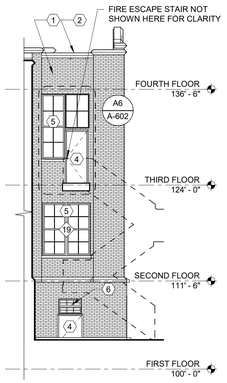
SHEET TITLE
ELEVATIONS

SHEET
A-202

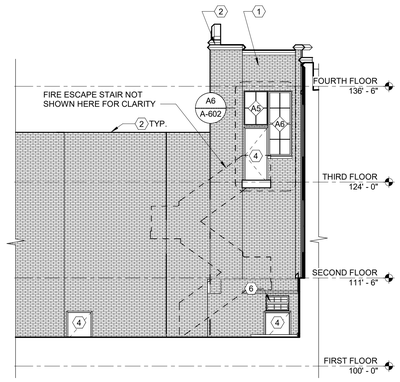
1/20/2023 1:54:57 PM C:\Users\jettro\Documents\RISD AESC_studio053TK3L.rvt



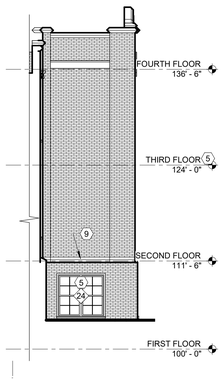
D1 NORTH ELEVATION
1/8" = 1'-0"



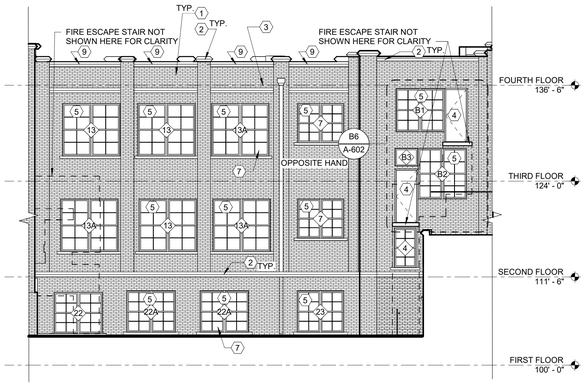
D2 NORTH ELEVATION
1/8" = 1'-0"



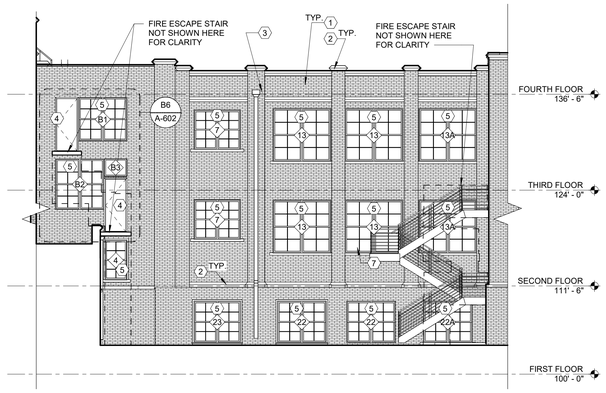
D3 SOUTH ELEVATION
1/8" = 1'-0"



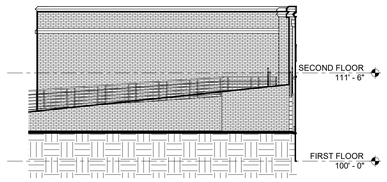
D4 SOUTH ELEVATION
1/8" = 1'-0"



C1 WEST ELEVATION
1/8" = 1'-0"



C2 WEST ELEVATION
1/8" = 1'-0"



C3 EAST ELEVATION
1/8" = 1'-0"

SHEET KEYNOTES

1. EXISTING BRICK REPAIRS - SEE DEMOLITION ELEVATIONS AND ROOF PLAN FOR SCOPE.
2. EXISTING STONE/ CONCRETE REPAIRS/ REPLACEMENT - SEE DEMOLITION ELEVATIONS AND ROOF PLAN FOR SCOPE.
3. EXISTING DOWNSPOUT TO REMAIN - PROTECT.
4. EXISTING DOOR TO REMAIN – NO WORK. PROTECT
5. ADD ALT NO. 1: AT LOCATIONS OF DEMOLISHED WINDOWS - PROVIDE REPLACEMENT WINDOW - SEE DETAILS
6. EXISTING WINDOW TO REMAIN - NO WORK, PROTECT.
7. BASE BID - INFILL FORMER PANEL FOR A/C WINDOW UNIT WITH 1/2" OR THINNER GLASS WITH FACE MOUNTED MULLION TO MATCH EXISTING ADJACENT WINDOW - CONFIRM IN FIELD

GENERAL SHEET NOTES

A. ALL WORK SHALL BE INCLUDED IN THE BASE BID UNLESS NOTED OTHERWISE.

B. MASONRY RESTORATION ALLOWANCE
EXTERIOR BRICK: SEE DEMO & SPECIFICATIONS

EXTERIOR STONE/PRECAST CONCRETE ELEMENTS: SEE PLANS & SPECIFICATIONS

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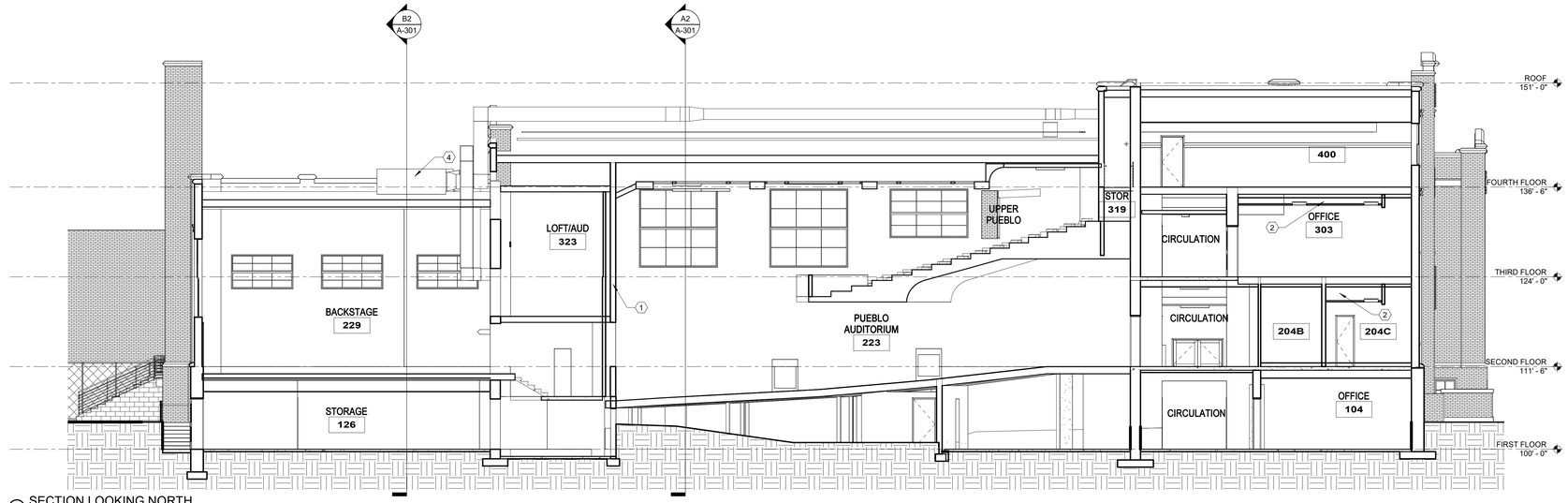
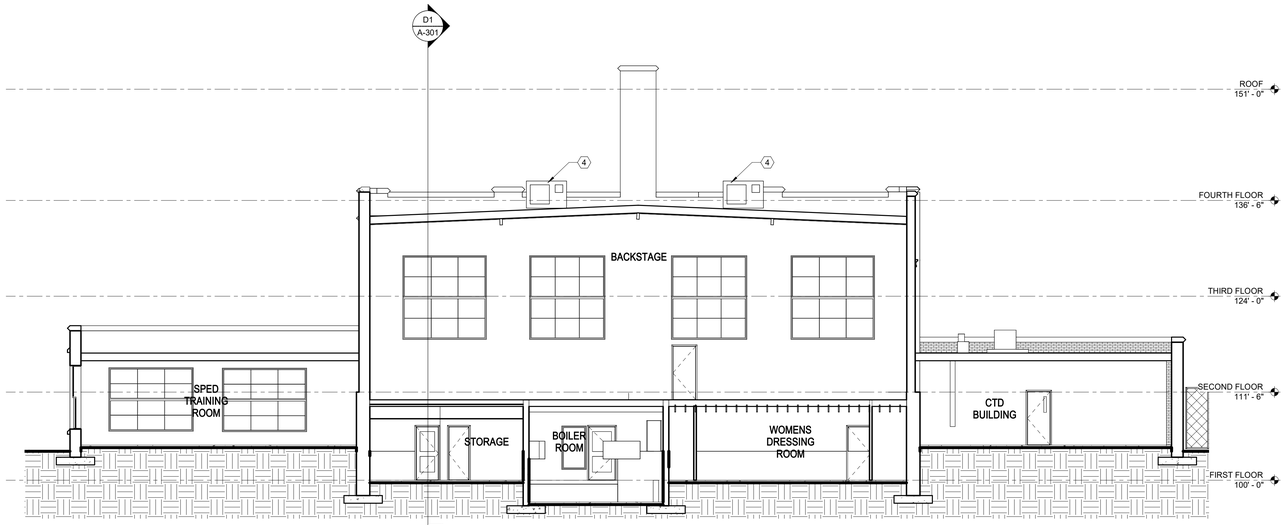
SHEET TITLE
ELEVATIONS

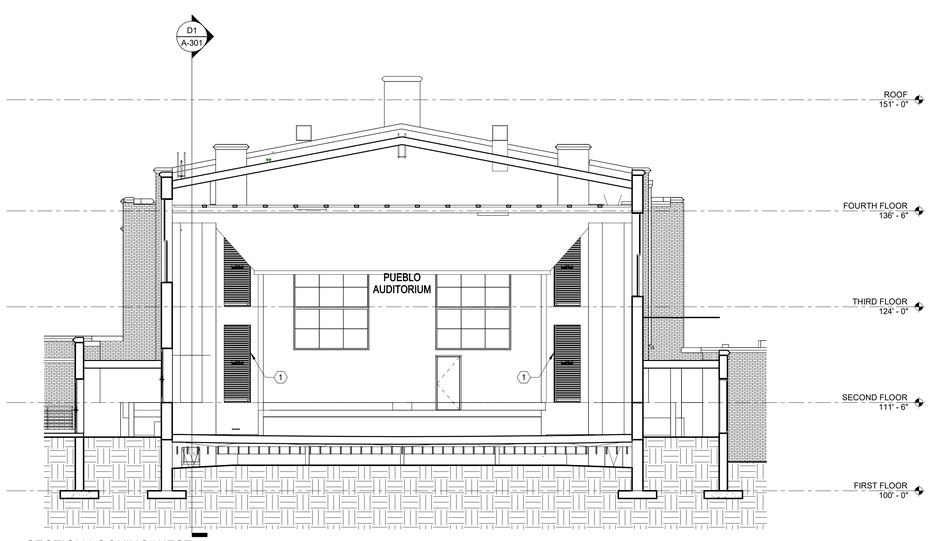
SHEET
A-203



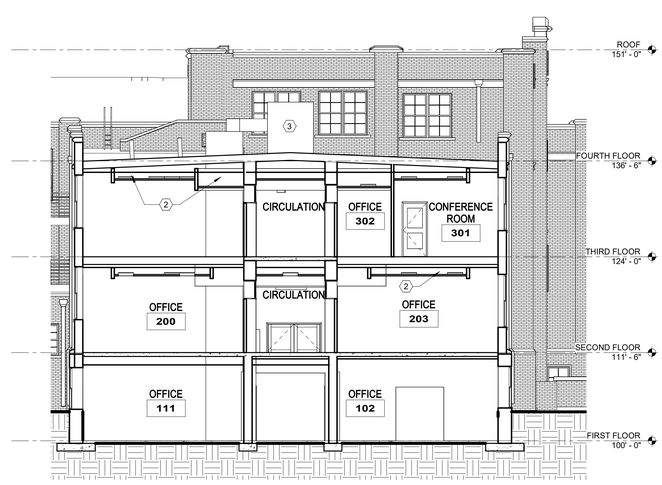
D1 SECTION LOOKING NORTH
1/8" = 1'-0"



B2 SECTION LOOKING WEST
1/8" = 1'-0"



A2 SECTION LOOKING WEST
1/8" = 1'-0"



B5 SECTION LOOKING NORTH
1/8" = 1'-0"

GENERAL SHEET NOTES

A. NONE

SHEET KEYNOTES

1 EXISTING OPEN GRILLES TO REMAIN USED AS NEW RETURN AIR PATH TO RTU-1 - SEE MECHANICAL
2 NEW GYPSUM BOARD HEAD WALLS & NEW ACOUSTICAL CEILINGS - SEE PLANS AND RCPS
3 NEW DEDICATED OUTSIDE AIR SYSTEM (DOAS) - SEE MECHANICAL
4 NEW ROOF TOP UNIT (RTU-1) TYP. OF TWO - SEE MECHANICAL

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SHEET TITLE
BLDG SECTIONS

SHEET
A-301

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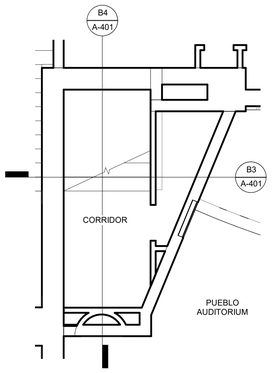
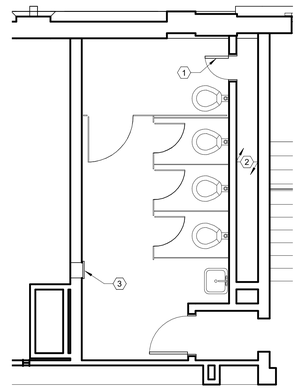
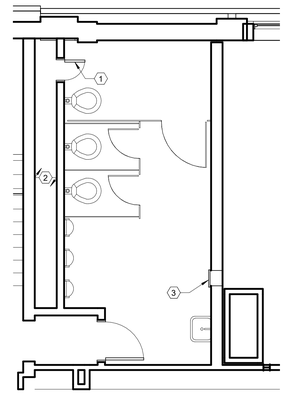


D3 ENLARGED PLAN - ORGAN ROOM
1/4" = 1'-0"



D4 ENLARGED PLAN - WOMENS RR TYPICAL
1/4" = 1'-0"



D5 ENLARGED PLAN - MENS RR TYPICAL
1/4" = 1'-0"

GENERAL SHEET NOTES

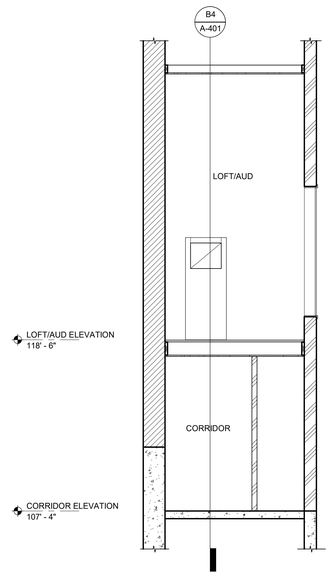
A. NONE

SHEET KEYNOTES

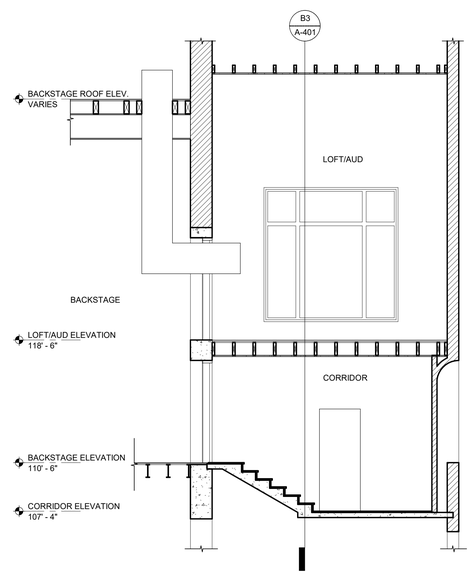
1 DEMO & REPLACE EXISTING ACCESS PANEL WITH NEW 1 HR FIRE RATED ACCESS PANEL - MATCH EXISTING SIZE

2 EXISTING PIPING TO REMAIN UNLESS OTHERWISE NOTED - SEE MECHANICAL FOR NEW HVAC PIPING

3 NEW RESTROOM EXHAUST SYSTEM - GRILLE, DAMPER, AND RISER TO ROOF - SEE MECHANICAL AND DETAILS - PATCH EXISTING WALL AS REQ'D



B3 SECTION LOOKING WEST
1/4" = 1'-0"



B4 SECTION LOOKING NORTH
1/4" = 1'-0"

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Checked By	Checker

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SHEET TITLE

ENLARGED PLANS

SHEET

A-401

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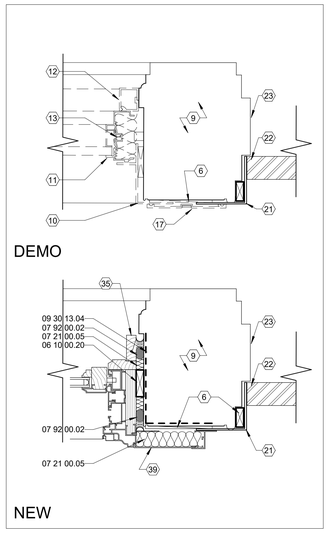
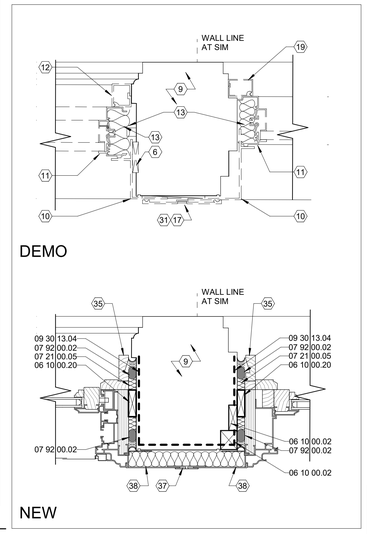


D2 ADD. ALT. 1 - PLAN DETAIL - MULLION / JAMB
3" = 1'-0"



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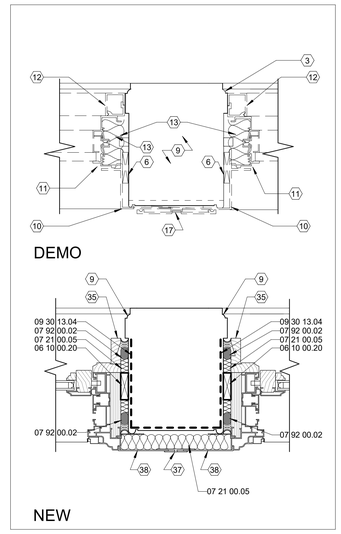

D5 ADD. ALT. 1 - PLAN DETAIL - MULLION / JAMB
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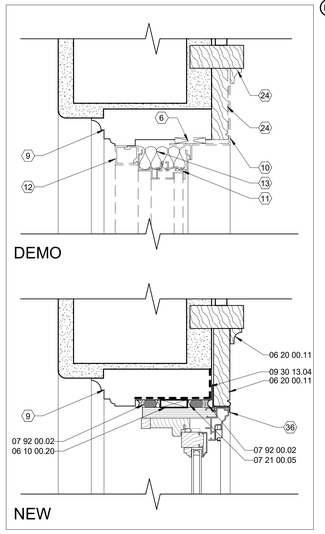

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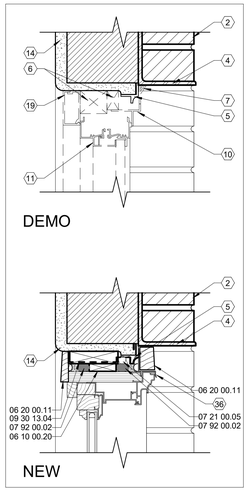
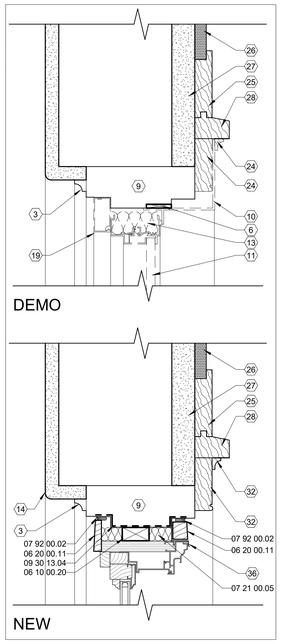
3" = 1'-0"



B3 ADD. ALT. 1 - SECTION DETAIL - HEAD / JAMB
3" = 1'-0"



B4 ADD. ALT. 1 - SECTION DETAIL - HEAD / JAM
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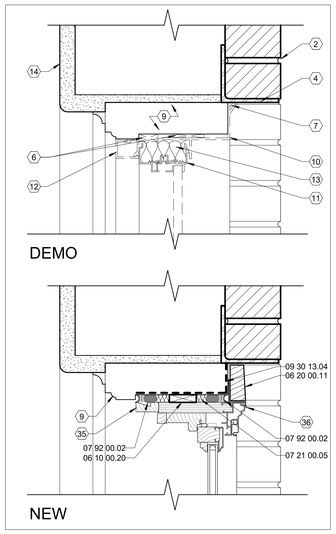
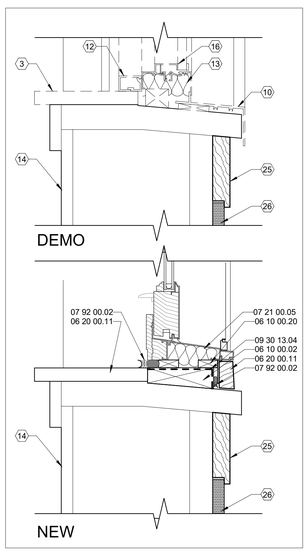


B5 ADD ALT 1 - SECTION DETAIL - HEAD / JAMB
3" = 1'-0"



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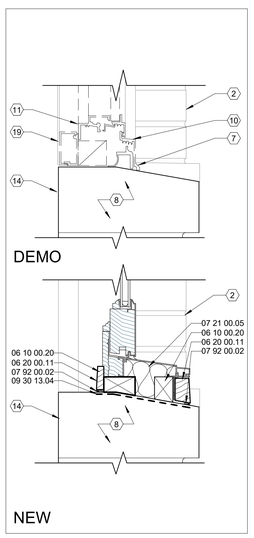

A3 ADD. ALT. 1 - SECTION DETAIL - SILL
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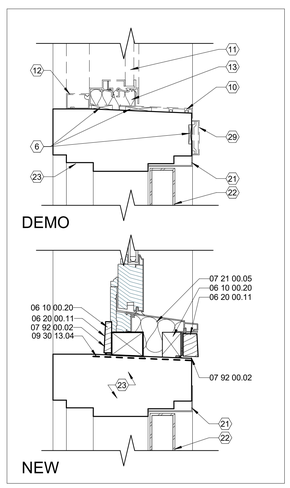

A4 ADD. ALT. 1 - SECTION DETAIL - SILL
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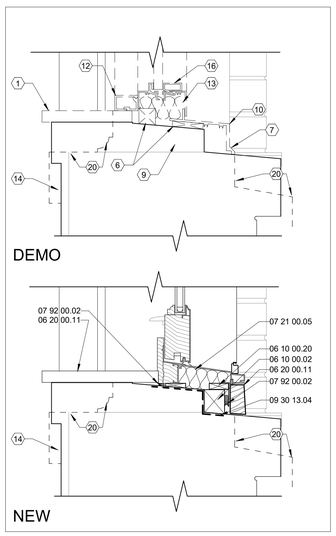
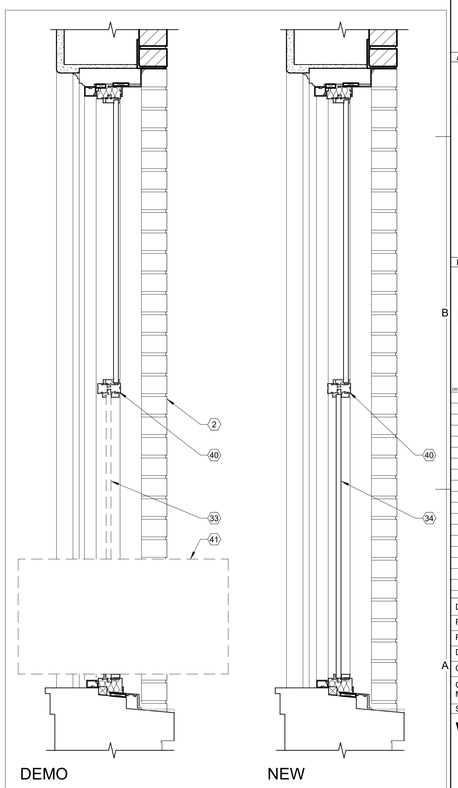


A5 ADD. ALT. 1 - SECTION DETAIL - SILL
3" = 1'-0"



A6 BASE BID - SECTION DETAIL
1 1/2" = 1'-0"

GENERAL SHEET NOTES

A. WINDOW DETAIL DRAWINGS ARE BASED ON DRAWINGS PREPARED BY ARCHITECTURE+PLUS DATED AUGUST 24, 1992, ENTITLED "WINDOW REPLACEMENT AT EDUCATIONAL SERVICES CENTER FOR ROSWELL INDEPENDENT SCHOOL DISTRICT." CONTRACTOR TO VERIFY IN FIELD EXISTING WINDOW CONSTRUCTION.

SHEET KEYNOTES

1 DEMO EXISTING WOOD TRIM
2 EXISTING FACE BRICK - TO REMAIN
3 EXISTING WOOD TRIM - TO REMAIN, REPAIR & PAINT AS REQUIRED - COLOR TO MATCH EXISTING
4 EXISTING STEEL ANGLE AT HEAD ONLY, NOT PRESENT AT JAMB - TO REMAIN
5 EXISTING STEEL WINDOW FRAME EMBEDDEN IN MORTAR JOINT OR TACK WELDED TO LEDGER ANGLE, AS OCCURS - TO REMAIN
6 DEMO EXISTING WOOD BLOCKING
7 DEMO EXISTING CONTINUOS SEALANT COMPLETE
8 EXISTING PRECAST STONE SILL - TO REMAIN
9 EXISTING WOOD WINDOW JAMB/HEAD/SILL - TO REMAIN, REPAIR & PAINT AS REQUIRED - COLOR TO MATCH EXISTING JAMB/HEAD/SILL
10 DEMO EXISTING ALUMINUM PANNING
11 DEMO EXISTING ALUMINUM WINDOW
12 DEMO EXISTING SNAP ON ALUMINUM TRIM CONTINUOUS
13 DEMO EXISTING FIBERGLASS INSULATION, AS OCURRS
14 EXISTING PLASTER FINISH - TO REMAIN, PATCH AND APPLY SKIM COAT AS REQUIRED, PAINT TO MATCH EXISTING WALL COLOR
15 EXISTING TRUE MUNTIN WITH OFFSET GLAZING AT FIXED WINDOW SHOWN, SIMILAR AT SINGLE HUNG WINDOW.
16 DEMO EXISTING FIXED ALUMINUM WINDOW SILL
17 DEMO EXISTING ALUMINUM MULLION COVER
18 EXISTING TRUE MUNTIN WITH USUAL IN-LINE GLAZING AND ALUMINUM GLAZING BEADS
19 DEMO EXISTING SNAP ON ALUMINUM TRIM
20 DASHED LINE INDICATES EXISTING WINDOW WOOD TRIM AND BRICK SILL PROFILE AT WINDOW OPENINGS 8 & 9
21 EXISTING ALUMINUM ANGLE - TO REMAIN
22 EXISTING HOLLOW METAL DOOR - TO REMAIN
23 EXISTING WOOD DOOR FRAME - TO REMAIN, REPAIR & PAINT AS REQUIRED - COLOR TO MATCH EXISTING
24 DEMO EXISTING COVE MOULD
25 EXISTING WOOD RAIL - TO REMAIN
26 EXISTING PLYWOOD PANEL - TO REMAIN
27 EXISTING WOOD NAILERS - TO REMAIN
28 EXISTING MOULDING - TO REMAIN
29 EXISTING 2-1/4" WIDE SNAP-ON ALUMINUM MULLION COVER
30 EXISTING LINE OF FACE BRICK JAMB AT SIMILAR
31 EXISTING MULLION COVER NOT REQUIRED AT SIMILAR
32 WOOD MOULDING TO MATCH EXISTING
33 DEMO EXISTING PANEL FOR AC WINDOW UNIT
34 INFILL FORMER PANEL FOR A/C WINDOW UNIT WITH 1/2" OR THINNER GLASS WITH FACE MOUNTED MULLION TO MATCH EXISTING ADJACENT WINDOW - CONFIRM IN FIELD
35 ANDERSEN EXTENSION JAMB - VERIFY REQUIRED WIDTH IN FIELD
36 ANDERSEN E-SERIES DRIP CAP
37 ANDERSEN EXTENSION JAMB - VERIFY REQUIRED WIDTH IN FIELD
38 ANDERSEN MULLION CONNECTOR, TRIM WIDTH IN FIELD - COLOR BY ARCHITECT
39 ANDERSEN FLAT CASING EXPANDABLE EXTERIOR CASING - COLOR BY ARCHITECT
40 EXISTING MUNTIN - TO REMAIN
41 DEMO EXISTING WINDOW AIR CONDITIONING UNIT - DEMO COMPLETE, PREP OPENING

KEYNOTE LEGEND

06 10 00.02	TREATED WOOD BLOCKING AS REQUIRED
06 10 00.20	TREATED WD SHIM AS REQ'D
06 20 00.11	WOOD TRIM - COLOR BY ARCHITECT
07 21 00.05	FIBERGLASS BATT WALL INSULATION, UNFACED
07 92 00.02	SEALANT W/ BACKER ROD, COLOR BY ARCHITECT
09 30 13.04	FLUID APPLIED WATERPROOF MEMBRANE

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ARCHITECTURE & DESIGN

McClain + Yu Architecture & Design
2010 Ridgecrest Dr SE
Albuquerque, NM 87108
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CONSULTANTS

STATE OF NEW MEXICO RAIMUND J. MCCLAIN No. 004757 REGISTERED ARCHITECT JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JBS, SB
Checked By	RB, MH

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SHEET TITLE
WINDOW DETAILS

SHEET
A-501

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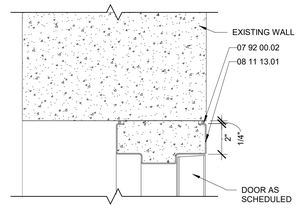
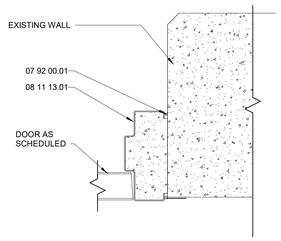
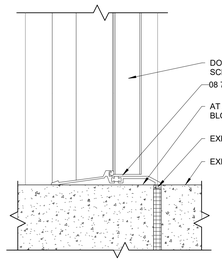


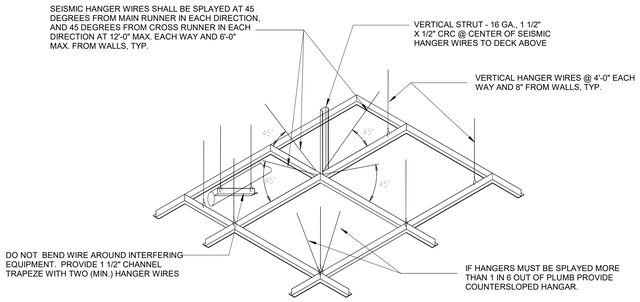
E3 HEAD DETAIL
3" = 1'-0"



D3 JAMB DETAIL
3" = 1'-0"



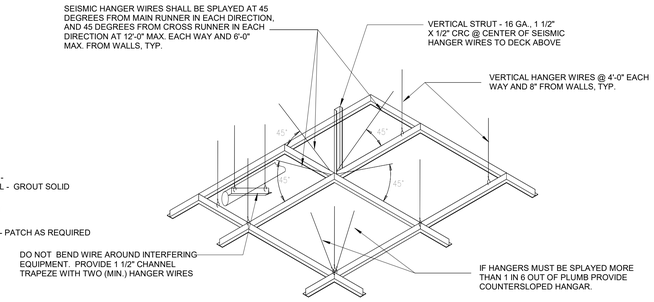
C3 THRESHOLD DETAIL
3" = 1'-0"



NOTES:

1. HANGER WIRES MUST BE 12 GA MIN. SOFT ANNEALED, MILE STEEL WIRE. WIRES SHALL BE WRAPPED TIGHTLY AT RUNNERS AND SUPPORTS WITH A MIN OF THREE TURNS.
2. CLIPS SHALL HOLD RUNNERS TIGHTLY TOGETHER SPLICE CLIPS SHALL BE CAPABLE OF RESISTING AT LEAST 50 LBS IN TENSION OR COMPRESSION.
3. FOR MANUFACTURED SYSTEMS, SUBMIT SUBSTANTIATION IN ACCORDANCE WITH IBC STANDARDS.
4. RUNNERS SHALL BE CAPABLE OF SUPPORTING CEILING SYSTEM WITH DEFLECTIONS LESS THAN 0.133 INCHES.
5. LOCAL KINKS AND BENDS SHALL NOT BE MADE IN HANGER WIRES FOR LEVELING.
6. ALL SUSPENDED SYSTEMS SHALL BE HUNG IN A SIMILAR FASHION, INCLUDING, BUT NOT LIMITED TO, DUCTWORK, LIGHT FIXTURES, AND PIPING.

D4 SEISMIC BRACING DETAIL
12" = 1'-0"



NOTES:

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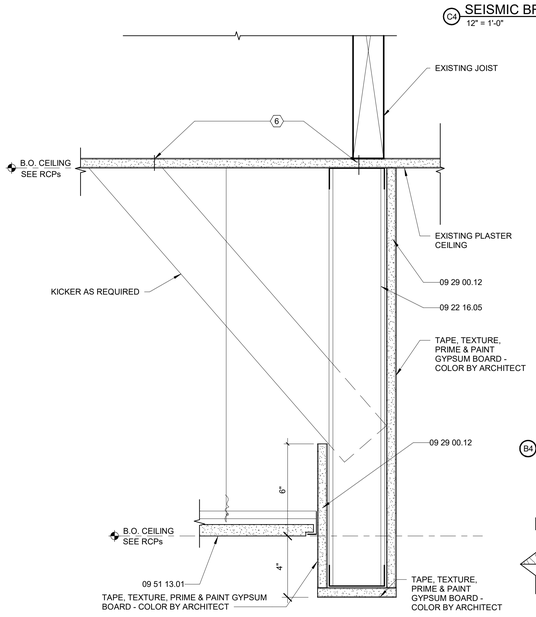
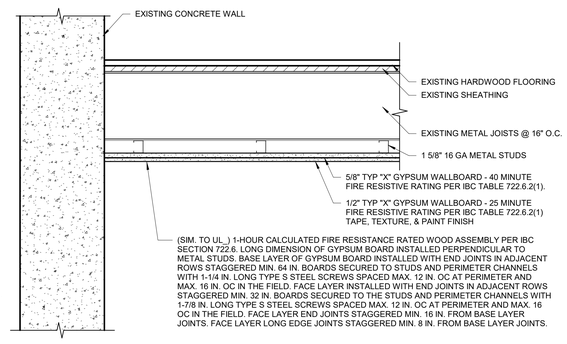
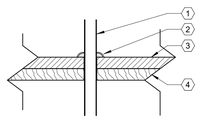
C4 SEISMIC BRACING DETAIL
12" = 1'-0"



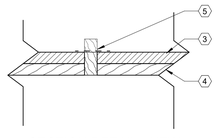
A3 SECTION DETAIL - TYP. GYP SOFFIT
3" = 1'-0"



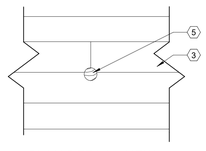
B4 SECTION DETAIL - BOILER ROOM 1-HR RATED CEILING
1 1/2" = 1'-0"



A4 SECTION DETAIL - DEMO
3" = 1'-0"



A5 SECTION DETAIL - NEW
3" = 1'-0"



A6 PLAN DETAIL - NEW
3" = 1'-0"

GENERAL SHEET NOTES

A. NONE

SHEET KEYNOTES

1. EXISTING RADIATOR PIPE TO BE REMOVED
2. EXISTING RADIATOR PIPE ESCHUTCHEON TO BE REMOVED
3. EXISTING SOLID HARDWOOD FLOORING
4. EXISTING SOLID WOOD SUBFLOORING
5. KILN DRIED HARDWOOD DOWEL SIZED TO FRICTION FIT IN EXISTING HOLE, USE WOOD GLUE, CUT DOWEL FLUSH IN PLACE AFTER GLUE DRIES, SAND SMOOTH AND FLUSH, FINISH TO MATCH EXISTING FLOOR
6. FASTEN NEW FRAMING TO EXISTING PLASTER BY SCREWING THROUGH CEILING TO WOOD JOIST, 16" O.C. WHEN PERPENDICULAR TO JOIST, TOGGLES AT 16" O.C. WHEN PARRALLEL

KEYNOTE LEGEND

07 92 00.01	SEALANT - COLOR BY ARCHITECT
07 92 00.02	SEALANT W/ BACKER ROD, COLOR BY ARCHITECT
08 11 13.01	HOLLOW METAL FRAME - GROUT SOLID
08 71 00.01	ANCHORED MTL THRESHOLD - SET IN SEALANT
09 22 16.05	3 5/8"x20 GA METAL STUDS
09 29 00.12	5/8" TYPE 'X' GYPSUM BOARD
09 51 13.01	ACT CEILING SYSTEM AS SPECIFIED

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STATE OF NEW MEXICO RAIMUNDO J. McCLAIN No. 004757 REGISTERED ARCHITECT JANUARY 20, 2023

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Checked By	RM, MH

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SHEET TITLE

DETAILS

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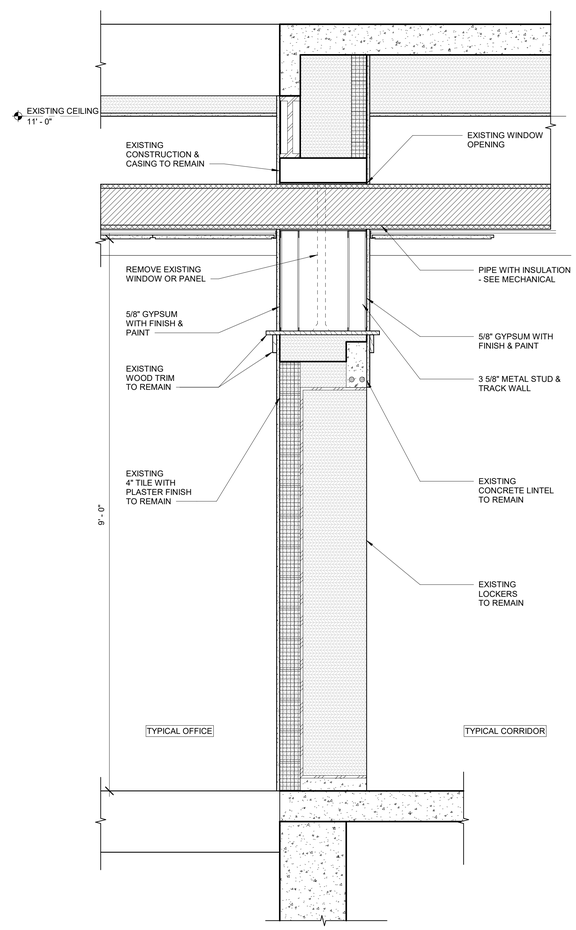
GENERAL SHEET NOTES

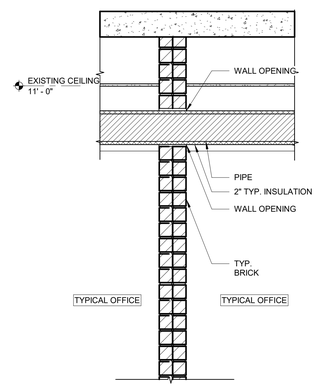
A. NONE

KEYNOTE LEGEND

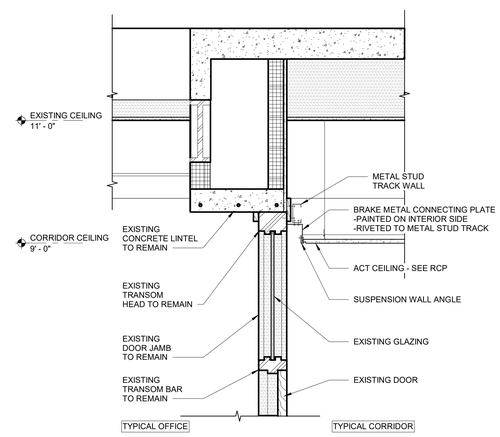
07 84 13.01	FIRE STOP SEALANT
07 84 46.01	FIRE SAFING INSULATION
07 84 46.02	IMPALING CUP ADHERED TO DECK EDGE ANGLE
09 21 16.01	2 1/2" X 20 GA METAL C-H STUD
09 21 16.02	1" GYPSUM BOARD LINER
09 21 16.03	2 1/2" x 20 GA J-RUNNER
09 29 00.09	5/8" TYPE 'X' GYPSUM BOARD - SEE PARTITION TYPES
23 05 00.01	DUCTS - SEE MECHANICAL DRAWINGS



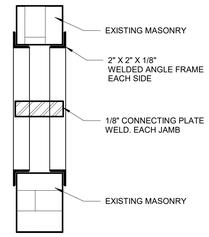
A2 SECTION DETAIL - HIGH WINDOW MECHANICAL PENETRATION
1" = 1'-0"



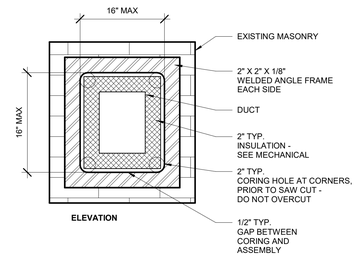
B4 WALL OPENING MASONRY L.B. DETAIL
3/4" = 1'-0"



A4 SECTION DETAIL - DOOR TRANSOM PARTIAL COVER
1" = 1'-0"

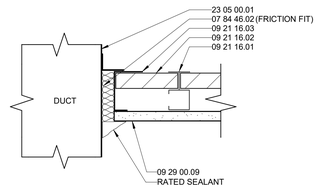


WALL SECTION

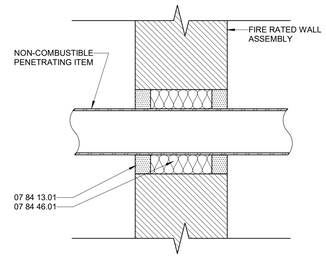


ELEVATION

C6 DUCT EXISTING MASONRY - WALL PENETRATION DETAIL
1 1/2" = 1'-0"



B6 DETAIL - DUCT PENETRATION
3" = 1'-0"



A6 RATED WALL PENETRATION PIPES
3" = 1'-0"

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CONSULTANTS

STATE OF NEW MEXICO
RAIMUNDO MCCLAIN
No. 004757
REGISTERED ARCHITECT
JANUARY 20, 2023

PROJECT

AESC HVAC UPGRADES

OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

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Drawn By	SH, JBS, MR
Checked By	MH, RM

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SHEET TITLE

DETAILS

SHEET

A-503

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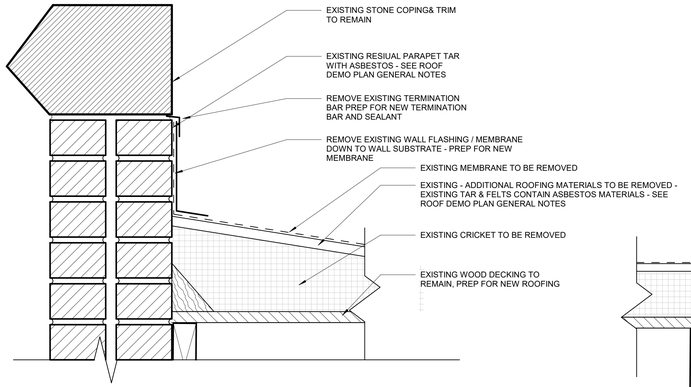
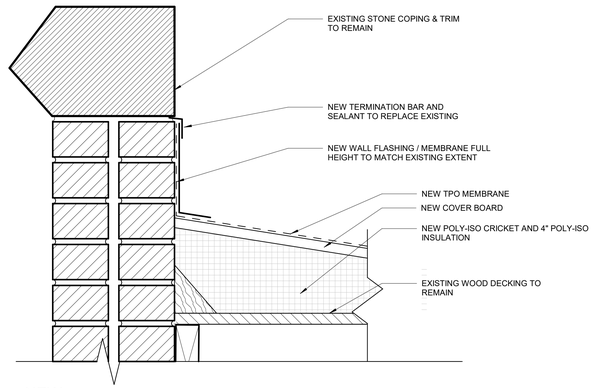
GENERAL SHEET NOTES

A. SEE ROOF DEMO AND NEW WORK FOR ADDITIONAL INFORMATION AND REQUIREMENTS

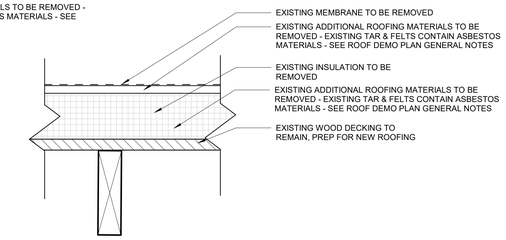


DEMO

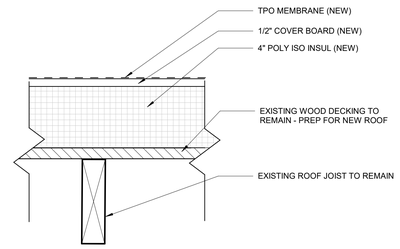


NEW

A2 PARAPET DETAILS
3" = 1'-0"

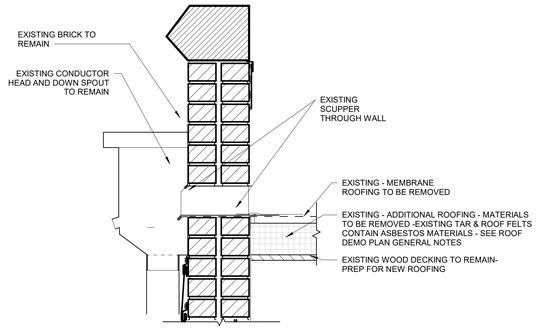


EXISTING/DEMO



NEW

C3 SECTION DETAIL EXISTING/DEMO NEW ROOF
3" = 1'-0"



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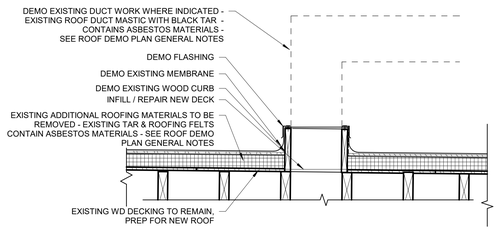

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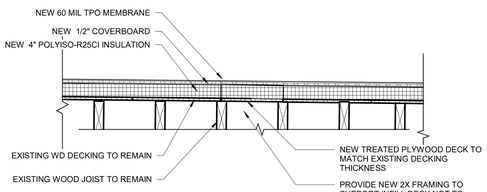
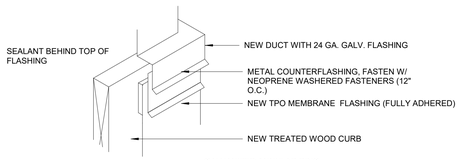
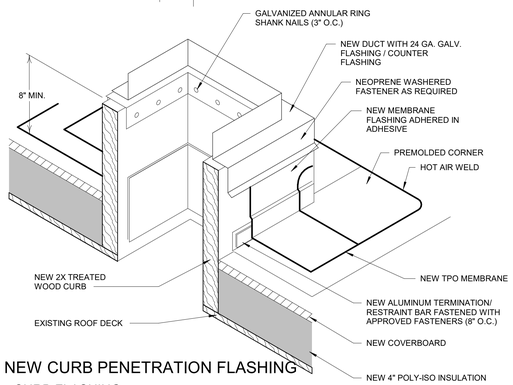


NEW INFILL OF REMOVED CURB

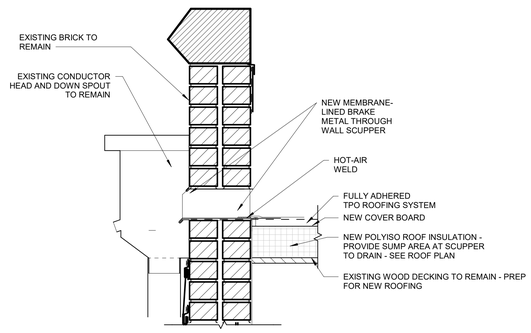
A2 ROOF CURB
3/4" = 1'-0"





NEW CURB PENETRATION FLASHING

A3 CURB FLASHING
12" = 1'-0"



NEW

A5 THRU WALL SCUPPER W CONDUCTOR HEAD
1 1/2" = 1'-0"

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CONSULTANTS

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Checked By	Checker

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SHEET TITLE

ROOF DETAILS

SHEET

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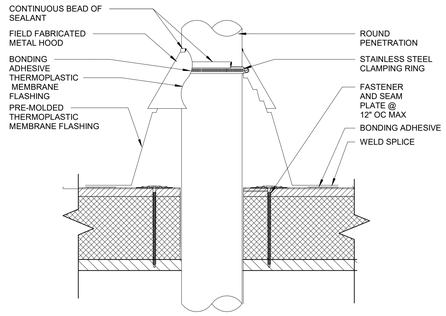
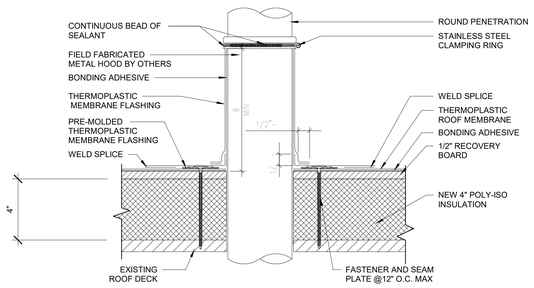
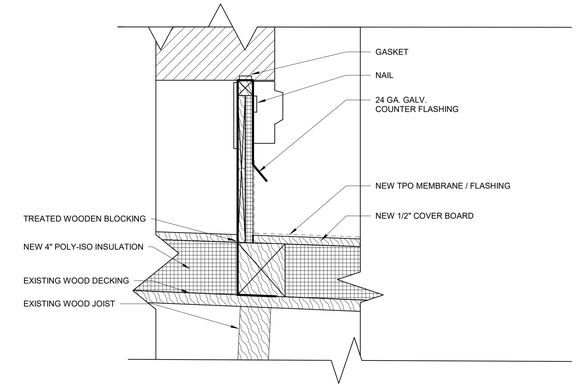
GENERAL SHEET NOTES



B3 PENETRATION W/BOOT
3" = 1'-0"

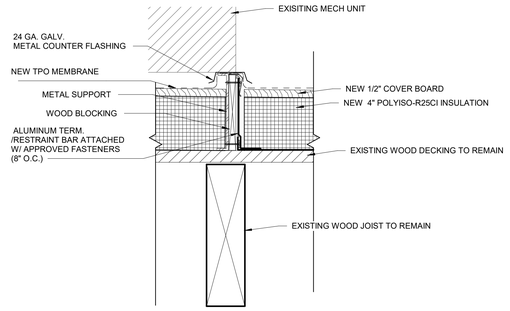


A3 PIPE PENETRATION
3" = 1'-0"



B5 ROOF DETAIL - ROOF CURB - FOOTING
3" = 1'-0"

EXISTING UNITS NOT ON A CURB



A4 TPO AT NEW MECH UNITS
3" = 1'-0"

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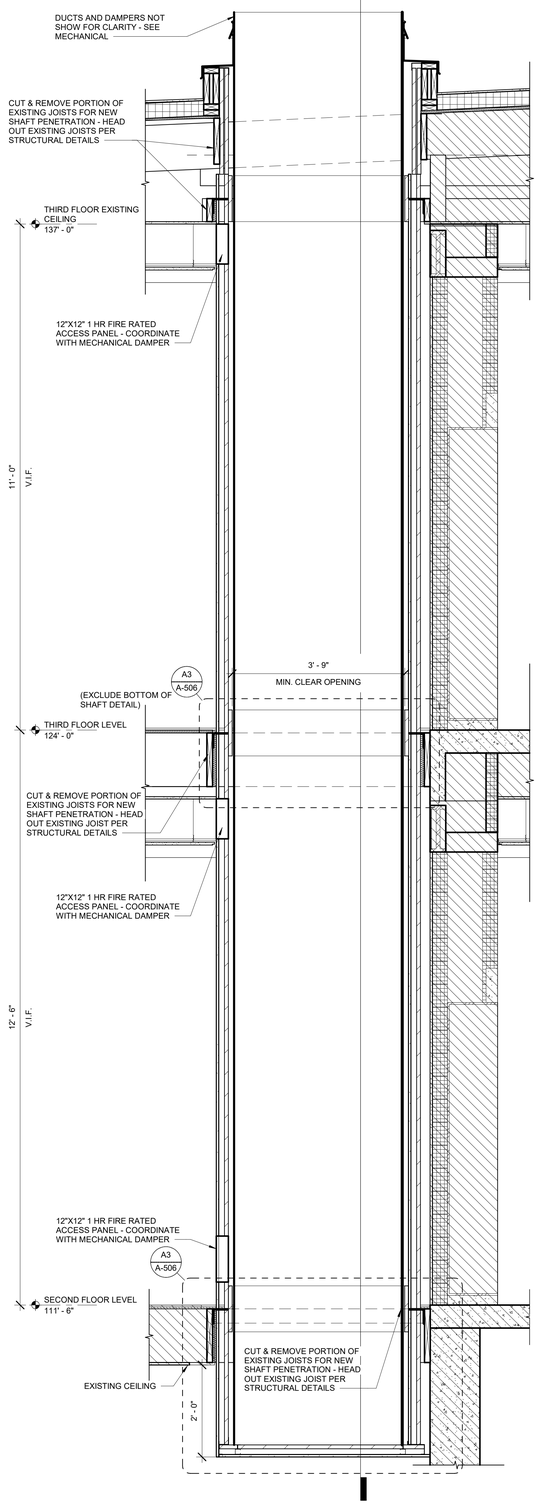
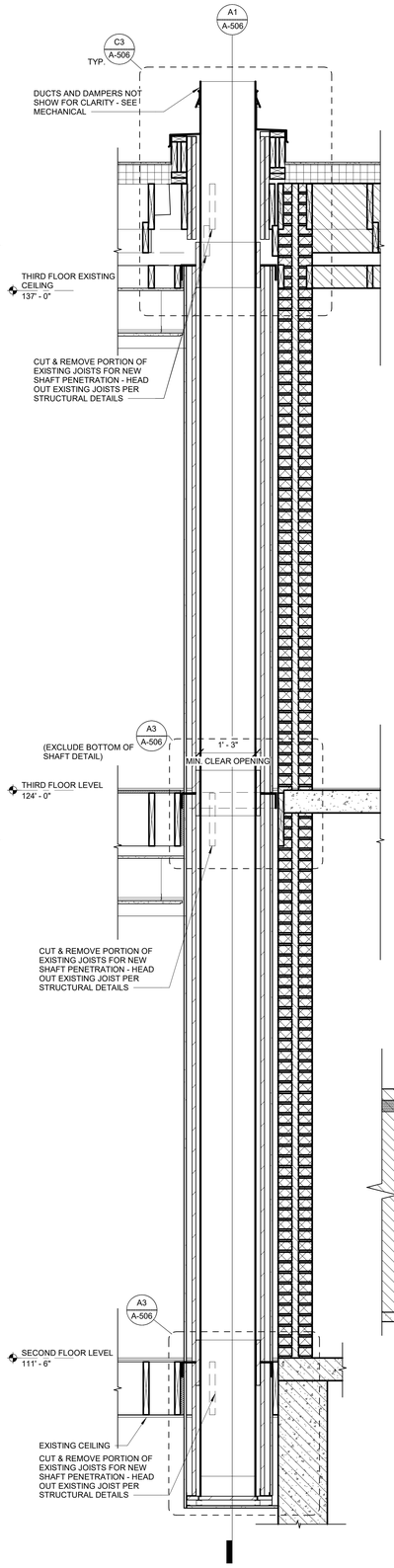
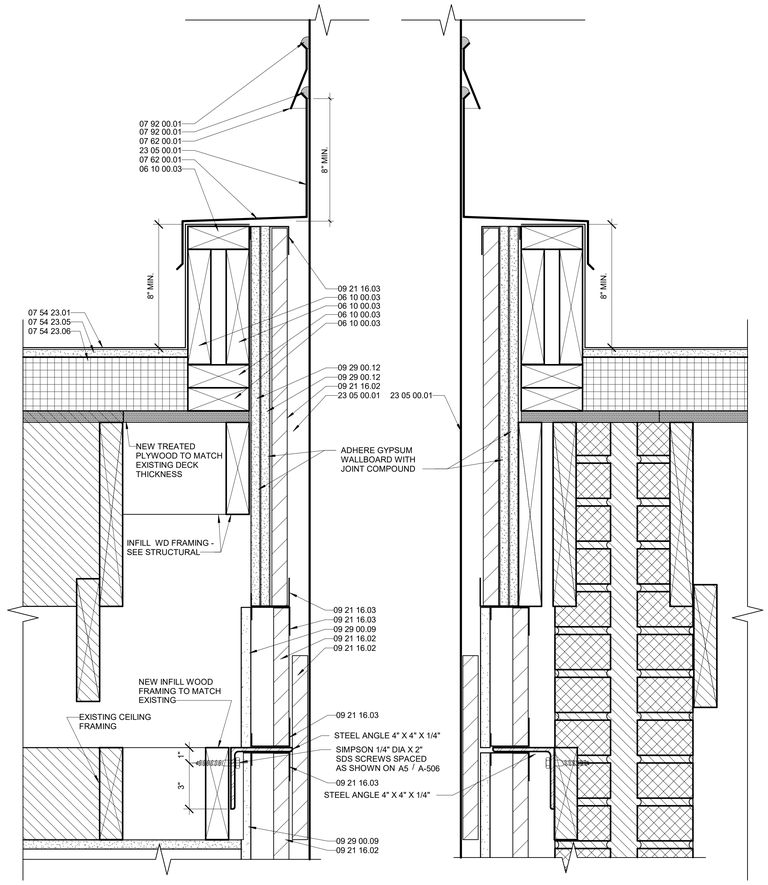


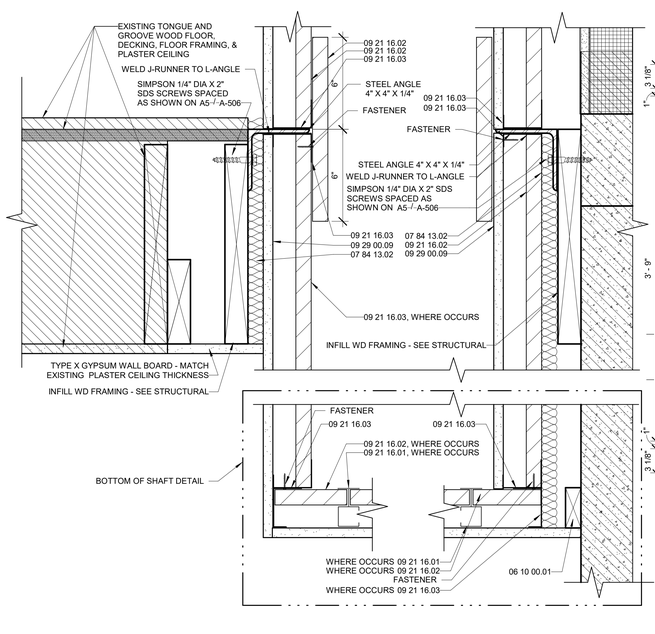
A1 WALL SECTION DETAIL - SHAFT
3/4" = 1'-0"



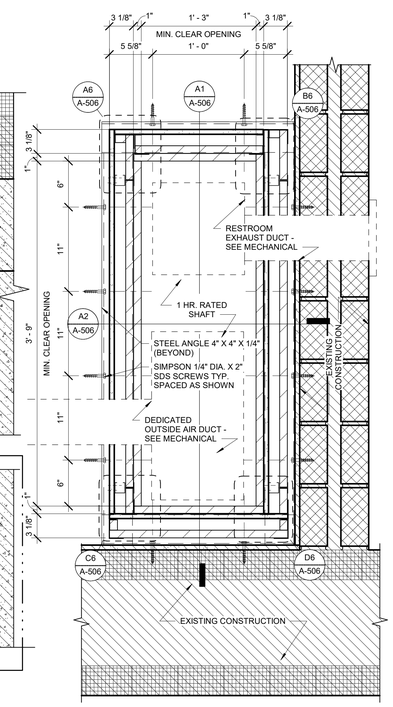
A2 WALL SECTION DETAIL - SHAFT
3/4" = 1'-0"



C3 SECTION DETAIL - SHAFT @ ROOF
3" = 1'-0"



A3 SECTION DETAIL - SHAFT FRAMING
3" = 1'-0"



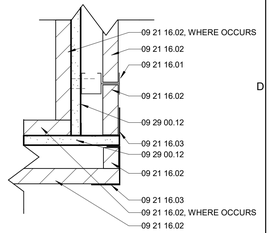
A5 PLAN DTL. - SHAFT (SOUTH SHOWN, NORTH OPP. HAND)
1 1/2" = 1'-0"

GENERAL SHEET NOTES

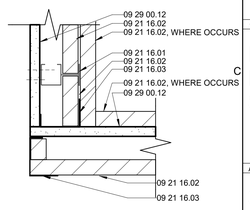
A. NONE

KEYNOTE LEGEND

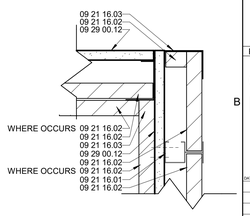
06 10 00.01	WOOD BLOCKING AS REQUIRED
06 10 00.03	TREATED WOOD FRAMING
07 54 23.01	TPO ROOFING SYSTEM, ADHERED
07 54 23.05	RECOVERY BOARD PER MANUF REQ'S
07 54 23.06	POLYISCOCYANURATE INSUL
07 62 00.01	COUNTER FLASHING
07 84 13.02	FIRE SAFING
07 92 00.01	SEALANT - COLOR BY ARCHITECT
09 21 16.01	2 1/2" X 20 GA METAL C-H STUD
09 21 16.02	1" GYPSUM BOARD LINER
09 21 16.03	2 1/2" x 20 GA J-RUNNER
09 29 00.09	5/8" TYPE 'X' GYPSUM BOARD - SEE PARTITION TYPES
09 29 00.12	5/8" TYPE 'X' GYPSUM BOARD
23 05 00.01	DUCTS - SEE MECHANICAL DRAWINGS



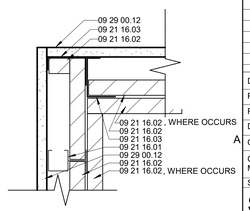
D6 SHAFT CORNER DETAIL
3" = 1'-0"



C6 SHAFT CORNER DETAIL
3" = 1'-0"



B6 SHAFT CORNER DETAIL
3" = 1'-0"



A6 SHAFT CORNER DETAIL
3" = 1'-0"

McCLAIN + YU
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CONSULTANTS

STATE OF NEW MEXICO
RAIMUNDO MCCLAIN
No. 004757
REGISTERED ARCHITECT
JANUARY 20, 2023

PROJECT

AESC HVAC UPGRADES

OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS

CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JBS
Checked By	RM, MH

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE

SHAFT DETAILS

SHEET

A-506

1/20/2023 1:55:12 PM C:\Users\jethro\Documents\RISD AESC_studio053TK3L.rvt

GENERAL SHEET NOTES

A. NONE

FINISH SCHEDULE

NO.	NAME	FLOOR	BASE	WALL	CEILING	PAINT	COMMENTS
100	OT/PT STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
100A	OT/PT STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
100B	OT/PT STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
100C	OT/PT STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101.5	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101B	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101C	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101D	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101E	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101F	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101G	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101H	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
101I	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
102	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
103	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
104	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
104A	CUSTODIAN ROOM	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
105	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
105A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
105B	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
106	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
106A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
107	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
107A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
108	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
108A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
109	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
109A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
110	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
111	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
118	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
119	MEN	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
119A	MEN	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
120	STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
121	STORAGE ROOM	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
122	CIRCULATION	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
123	STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
124	WOMEN	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
124A	WOMEN	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
125	STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
126	STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
127	BOILER ROOM	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
128	WOMENS DRESSING ROOM	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
129	STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
129A	STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
131	STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
132	STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
200	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
200A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
201	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
201.5	CUSTODIANS	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
201A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
202	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
202A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
202B	STORAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
202C	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
203	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
204	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
204.5	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
204.5A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
204.5B	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
204A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
204B	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
204C	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
205	SPECIAL SERVICES	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
205A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
206	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
207	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
207A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
208	SPECIAL SERVICE CONFERENCE ROOM	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
208A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
209	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
210	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
210A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
210B	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
210C	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
211	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
211A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
211B	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
211C	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
216	VESTIBULE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
217	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
217A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
217B	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
218	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
219	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
220	VESTIBULE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
222	MEN	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
222A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
223	PUEBLO AUDITORIUM	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
223	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
224	CIRCULATION	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
225	WOMEN	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
225A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
228	SPED TRAINING ROOM	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
229	BACKSTAGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
230	CTD BUILDING	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
300	LIBRARY	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
300A	LIBRARY	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
300B	LIBRARY	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
300C	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
301	CONFERENCE ROOM	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
302	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
302A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
303	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
304	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
304A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
305	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
306	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
307	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
308	TEACHERS CENTER	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
308A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
308B	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
310	LOUNGE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
310A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
311	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
311A	OFFICE	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
314	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
316	MEN	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
316A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
317	STOR	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
319	STOR	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
320	UPPER PUEBLO	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
321	CIRCULATION	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
322	WOMEN	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
322A	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
323	LOFT/AUD	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
324	LOFT/AUD	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
400	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	
401	Room	F0	B0	W0	SEE RCP	P1, WHEN REQUIRED	

FINISH LEGEND

FLOOR
F0 - EXISTING FLOORING TO REMAIN, PROTECT

BASE
B0 - EXISTING BASE TO REMAIN, PROTECT

WALL
W0 - EXISTING WALL FINISH TO REMAIN, PROTECT

CEILING
SEE RCPS

PAINT
SEE RCPS AND PLANS FOR PAINTING REQUIREMENTS AT PATCHES AND AT SELECT CEILINGS.

NOTE 1: SEE DEMO PLANS FOR WORK NECESSARY PRIOR FOR APPLICATION OF FINISHES.
NOTE 2: COLORS BY ARCHITECT, UNLESS NOTED OTHERWISE.
NOTE 3: AT EXPOSED CEILINGS AND AREAS OF EXPOSED DUCTWORK, CONDUIT AND PIPING, PAINT ALL EXPOSED SURFACES INCLUDING STRUCTURE, DUCTWORK, PIPING, CONDUIT, ETC.
NOTE 4: TYPICAL GYPSUM BOARD FINISH: PROVIDE LEVEL 5 FINISH, SMOOTH TEXTURE, PRIME, PAINT.

McCLAIN + YU
ARCHITECTURE & DESIGN

McClain + Yu Architecture & Design
2010 Ridgecrest Dr SE
Albuquerque, NM 87108
505.266.2142
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CONSULTANTS

STATE OF NEW MEXICO
RAIMUNDO MCCLAIN
No. 004757
REGISTERED ARCHITECT
JANUARY 20, 2023

PROJECT

AESC HVAC UPGRADES

OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS

CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JBS
Checked By	RM

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE

ROOM FINISH SCHEDULE

SHEET

A-601

GENERAL SHEET NOTES

A. NONE

WINDOW SCHEDULE

TYPE MARK	COUNT	SIZE	MATERIAL	GLAZING	INT FINISH	EXT FINISH	ROLLER SHADE	COMMENTS
1	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
2	11	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
2A	1	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
3	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
4	4	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
5	8	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
5A	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
6	1	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
7	4	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
10	4	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
11	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
12	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
13	7	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
13A	5	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
14	15	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
14A	9	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
15	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
16	10	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
16A	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
17	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
17A	6	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
18	1	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
19	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
20	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
21	8	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
21A	4	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
22	3	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
22A	3	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
23	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
24	11	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
24A	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
25	3	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
25A	1	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	2 WINDOWS INSTALLED AROUND EXISTING CENTER WOOD JAMB
26	4	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
27	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
28	6	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
29	1	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
30	7	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
30A	6	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	
A5	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	FIRE ESCAPE WINDOW - SEE WINDOW ELEVATION
A6	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	FIRE ESCAPE WINDOW - SEE WINDOW ELEVATION
B1	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	FIRE ESCAPE WINDOW - SEE WINDOW ELEVATION
B2	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	FIRE ESCAPE WINDOW - SEE WINDOW ELEVATION
B3	2	SEE WINDOW TYPES	ACWD	1" IGU, CLR, TEMPERED WHERE REQ'D	STAINED OAK	KYNAR	YES	FIRE ESCAPE WINDOW - SEE WINDOW ELEVATION

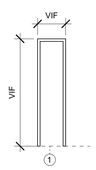
SHEET KEYNOTES

1 EXISTING WOOD CENTER JAMB TO REMAIN

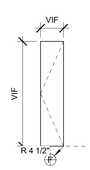
DOOR SCHEDULE

NO.	SIZE WIDTH	SIZE HEIGHT	SIZE THK	DOOR MATERIAL	DOOR TYPE	HARDWARE SET	FRAME MATERIAL	FRAME TYPE	FIRE RATING	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	SIGN TYPE	COMMENTS
119	1' - 4"	6' - 0 1/2"	0' - 2"	HM	F	1	HM	1	1 HR	E3 / A-503	D3 / A-503			V.I.F. ROUGH OPENING DIMENSIONS
124	1' - 6 1/2"	6' - 0 1/2"	0' - 2"	HM	F	1	HM	1	1 HR	E3 / A-503	D3 / A-503			V.I.F. ROUGH OPENING DIMENSIONS
129A	3' - 0"	7' - 0"	0' - 2"	HM	F	2	HM	1	1 HR	E3 / A-503	D3 / A-503	C3 / A-503		V.I.F. ROUGH OPENING DIMENSIONS
129B	4' - 0"	7' - 0"	0' - 2"	HM	F	2	HM	1	1 HR	E3 / A-503	D3 / A-503	C3 / A-503		V.I.F. ROUGH OPENING DIMENSIONS
222	1' - 4"	6' - 0 1/2"	0' - 2"	HM	F	1	HM	1	1 HR	E3 / A-503	D3 / A-503			V.I.F. ROUGH OPENING DIMENSIONS
225	1' - 6 1/2"	6' - 0 1/2"	0' - 2"	HM	F	1	HM	1	1 HR	E3 / A-503	D3 / A-503			V.I.F. ROUGH OPENING DIMENSIONS
316	1' - 4"	6' - 0 1/2"	0' - 2"	HM	F	1	HM	1	1 HR	E3 / A-503	D3 / A-503			V.I.F. ROUGH OPENING DIMENSIONS
322	1' - 6 1/2"	6' - 0 1/2"	0' - 2"	HM	F	1	HM	1	1 HR	E3 / A-503	D3 / A-503			V.I.F. ROUGH OPENING DIMENSIONS
CH01	3' - 4"	6' - 0 1/2"	0' - 2"	HM	F	3	HM	1	NONE	E3 / A-503	D3 / A-503	C3 / A-503		

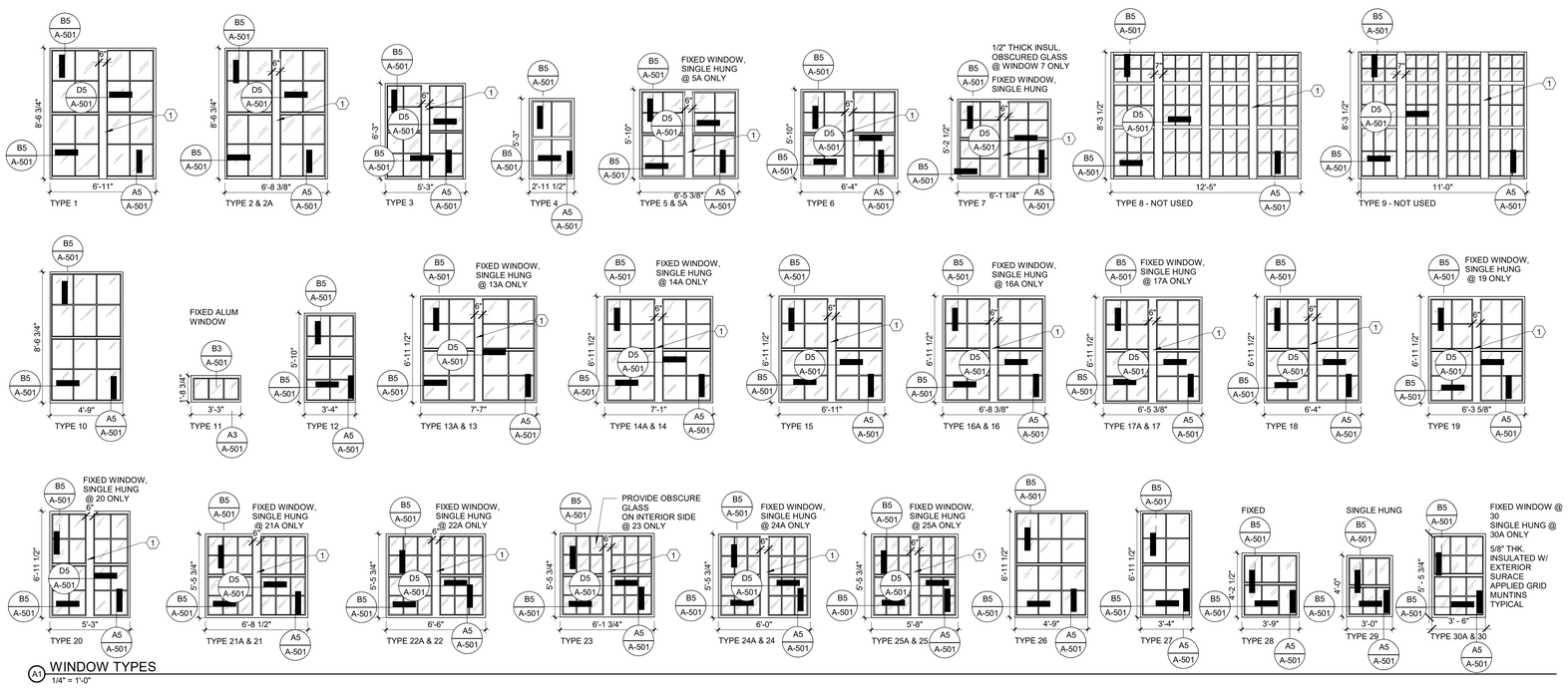
HARDWARE
HW-1 : 3 HINGE (HVYWT), 1-STOREROOM LOCKSET, BEST SERIES 9K, WITH BEST KEY TO MATCH OWNERS STANDARD, CLOSER, GASKET SET
HW-2: 3 HINGE (HVYWT), 1-STOREROOM LOCKSET, BEST SERIES 9K, WITH BEST KEY TO MATCH OWNERS STANDARD, CLOSER, THRESHOLD, GASKET SET, SWEEP
HW-3: 3 HINGE (HVYWT), 1-STOREROOM LOCKSET, BEST SERIES, 9K, WITH BEST KEY TO MATCH OWNERS STANDARD, CLOSER, THRESHOLD, RAIN (GUARD, FRAME BUMPERS)



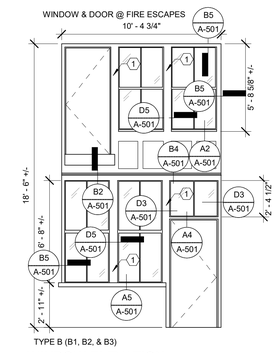
C1 DOOR FRAMES
1/4" = 1'-0"



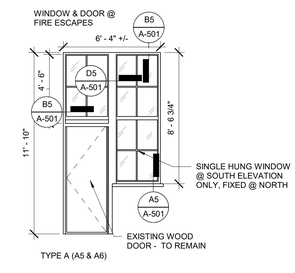
C2 DOOR TYPES
1/4" = 1'-0"



A1 WINDOW TYPES
1/4" = 1'-0"



B6 WINDOW ELEVATION
1/4" = 1'-0"



A6 WINDOW ELEVATION
1/4" = 1'-0"

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CONSULTANTS

STATE OF NEW MEXICO RAIMUNDO J. MCCLAIN No. 004757 REGISTERED ARCHITECT JANUARY 20, 2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JBS
Checked By	RM

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SHEET TITLE
DOOR AND WINDOW SCHEDULES AND ELEVATIONS

SHEET
A-602

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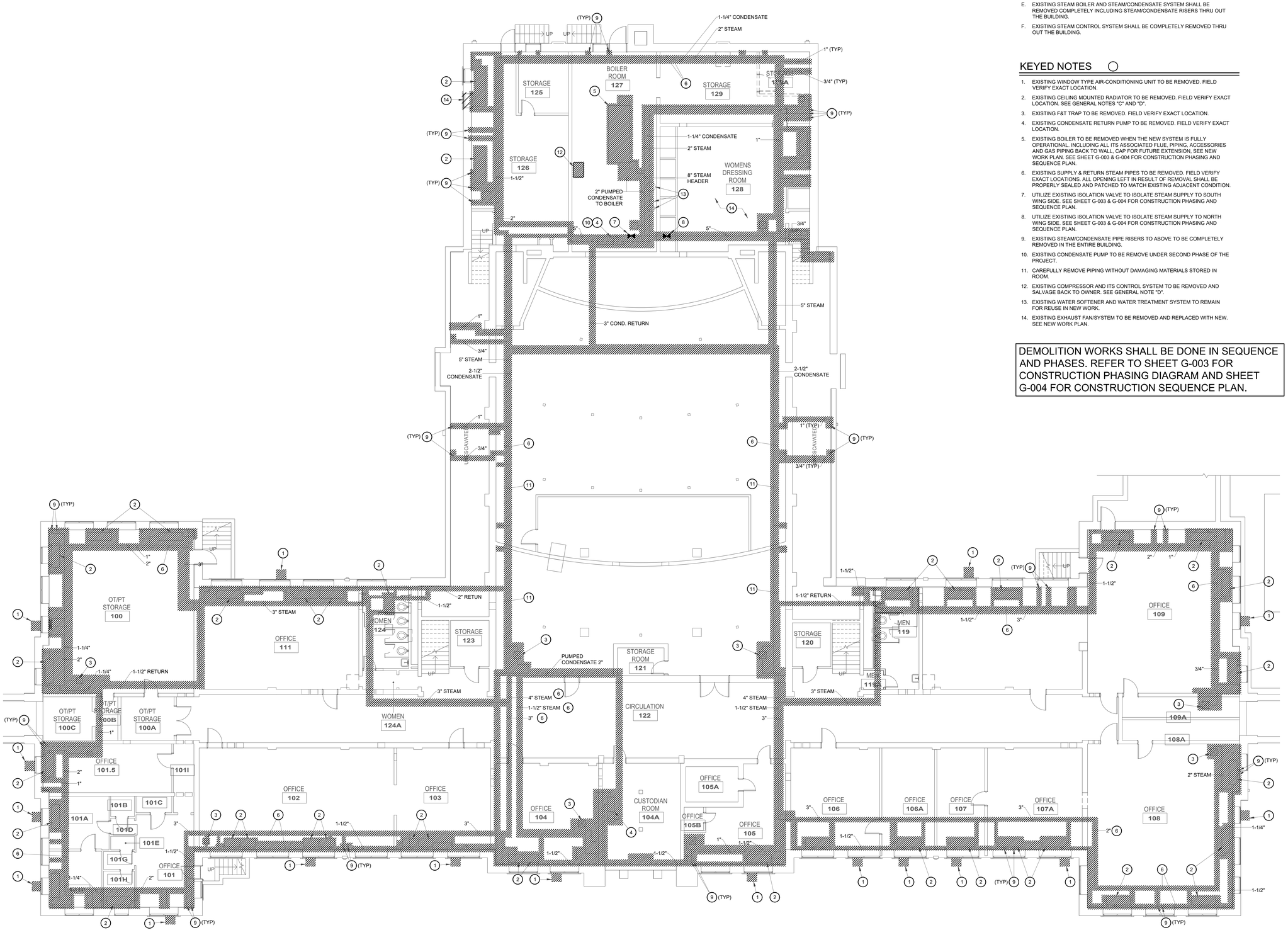

A1 FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. TYPICAL TO ALL EXISTING RADIATORS IN BUILDING: DISCONNECT, REMOVE AND PATCH PIPING OPENINGS. PATCH AND PAINT WALL BEHIND RADIATOR.

D. SALVAGE ALL RADIATORS TO OWNER, PROTECT AS NECESSARY DURING CONSTRUCTION. GENERAL CONTRACTOR TO PALLETIZE, WRAP AND DELIVER TO 701 N. GARDEN AVE ROSWELL, NM 88201.

E. EXISTING STEAM BOILER AND STEAM/CONDENSATE SYSTEM SHALL BE REMOVED COMPLETELY INCLUDING STEAM/CONDENSATE RISERS THRU OUT THE BUILDING.

F. EXISTING STEAM CONTROL SYSTEM SHALL BE COMPLETELY REMOVED THRU OUT THE BUILDING.

KEYED NOTES

1. EXISTING WINDOW TYPE AIR-CONDITIONING UNIT TO BE REMOVED. FIELD VERIFY EXACT LOCATION.
2. EXISTING CEILING MOUNTED RADIATOR TO BE REMOVED. FIELD VERIFY EXACT LOCATION. SEE GENERAL NOTES "C" AND "D".
3. EXISTING F&T TRAP TO BE REMOVED. FIELD VERIFY EXACT LOCATION.
4. EXISTING CONDENSATE RETURN PUMP TO BE REMOVED. FIELD VERIFY EXACT LOCATION.
5. EXISTING BOILER TO BE REMOVED WHEN THE NEW SYSTEM IS FULLY OPERATIONAL. INCLUDING ALL ITS ASSOCIATED FLUE, PIPING, ACCESSORIES AND GAS PIPING BACK TO WALL, CAP FOR FUTURE EXTENSION, SEE NEW WORK PLAN. SEE SHEET G-003 & G-004 FOR CONSTRUCTION PHASING AND SEQUENCE PLAN.
6. EXISTING SUPPLY & RETURN STEAM PIPES TO BE REMOVED. FIELD VERIFY EXACT LOCATIONS. ALL OPENING LEFT IN RESULT OF REMOVAL SHALL BE PROPERLY SEALED AND PATCHED TO MATCH EXISTING ADJACENT CONDITION.
7. UTILIZE EXISTING ISOLATION VALVE TO ISOLATE STEAM SUPPLY TO SOUTH WING SIDE. SEE SHEET G-003 & G-004 FOR CONSTRUCTION PHASING AND SEQUENCE PLAN.
8. UTILIZE EXISTING ISOLATION VALVE TO ISOLATE STEAM SUPPLY TO NORTH WING SIDE. SEE SHEET G-003 & G-004 FOR CONSTRUCTION PHASING AND SEQUENCE PLAN.
9. EXISTING STEAM/CONDENSATE PIPE RISERS TO ABOVE TO BE COMPLETELY REMOVED IN THE ENTIRE BUILDING.
10. EXISTING CONDENSATE PUMP TO BE REMOVE UNDER SECOND PHASE OF THE PROJECT.
11. CAREFULLY REMOVE PIPING WITHOUT DAMAGING MATERIALS STORED IN ROOM.
12. EXISTING COMPRESSOR AND ITS CONTROL SYSTEM TO BE REMOVED AND SALVAGE BACK TO OWNER. SEE GENERAL NOTE "D".
13. EXISTING WATER SOFTENER AND WATER TREATMENT SYSTEM TO REMAIN FOR REUSE IN NEW WORK.
14. EXISTING EXHAUST FAN/SYSTEM TO BE REMOVED AND REPLACED WITH NEW. SEE NEW WORK PLAN.

DEMOLITION WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

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01/06/2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

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Checked By	WAY

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SHEET TITLE
FIRST FLOOR MECHANICAL DEMOLITION PLAN

SHEET
MD-101

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 FOR GENERAL NOTES, LEGEND & SCHEDULES.

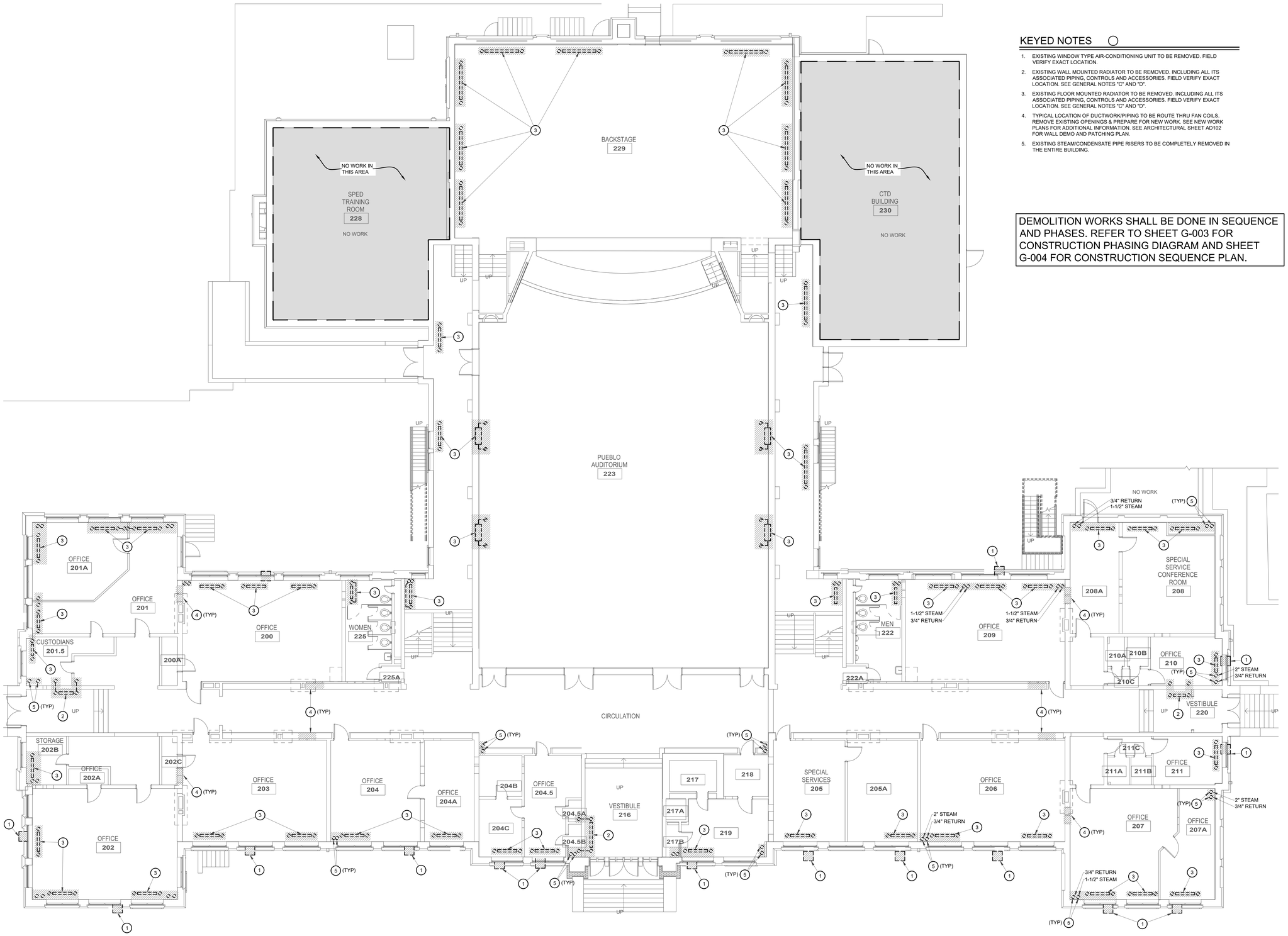
C. TYPICAL TO ALL EXISTING RADIATORS IN BUILDING: DISCONNECT, REMOVE AND PATCH PIPING OPENINGS. PATCH AND PAINT WALL BEHIND RADIATOR.

D. SALVAGE ALL RADIATORS TO OWNER, PROTECT AS NECESSARY DURING CONSTRUCTION. GENERAL CONTRACTOR TO PALLETIZE, WRAP AND DELIVER TO 701 N. GARDEN AVE ROSWELL, NM 88201.

KEYED NOTES

1. EXISTING WINDOW TYPE AIR-CONDITIONING UNIT TO BE REMOVED. FIELD VERIFY EXACT LOCATION.
2. EXISTING WALL MOUNTED RADIATOR TO BE REMOVED. INCLUDING ALL ITS ASSOCIATED PIPING, CONTROLS AND ACCESSORIES. FIELD VERIFY EXACT LOCATION. SEE GENERAL NOTES "C" AND "D".
3. EXISTING FLOOR MOUNTED RADIATOR TO BE REMOVED. INCLUDING ALL ITS ASSOCIATED PIPING, CONTROLS AND ACCESSORIES. FIELD VERIFY EXACT LOCATION. SEE GENERAL NOTES "C" AND "D".
4. TYPICAL LOCATION OF DUCTWORK/PIPING TO BE ROUTE THRU FAN COILS. REMOVE EXISTING OPENINGS & PREPARE FOR NEW WORK. SEE NEW WORK PLANS FOR ADDITIONAL INFORMATION. SEE ARCHITECTURAL SHEET AD102 FOR WALL DEMO AND PATCHING PLAN.
5. EXISTING STEAM/CONDENSATE PIPE RISERS TO BE COMPLETELY REMOVED IN THE ENTIRE BUILDING.

DEMOLITION WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.



A1 SECOND FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

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PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

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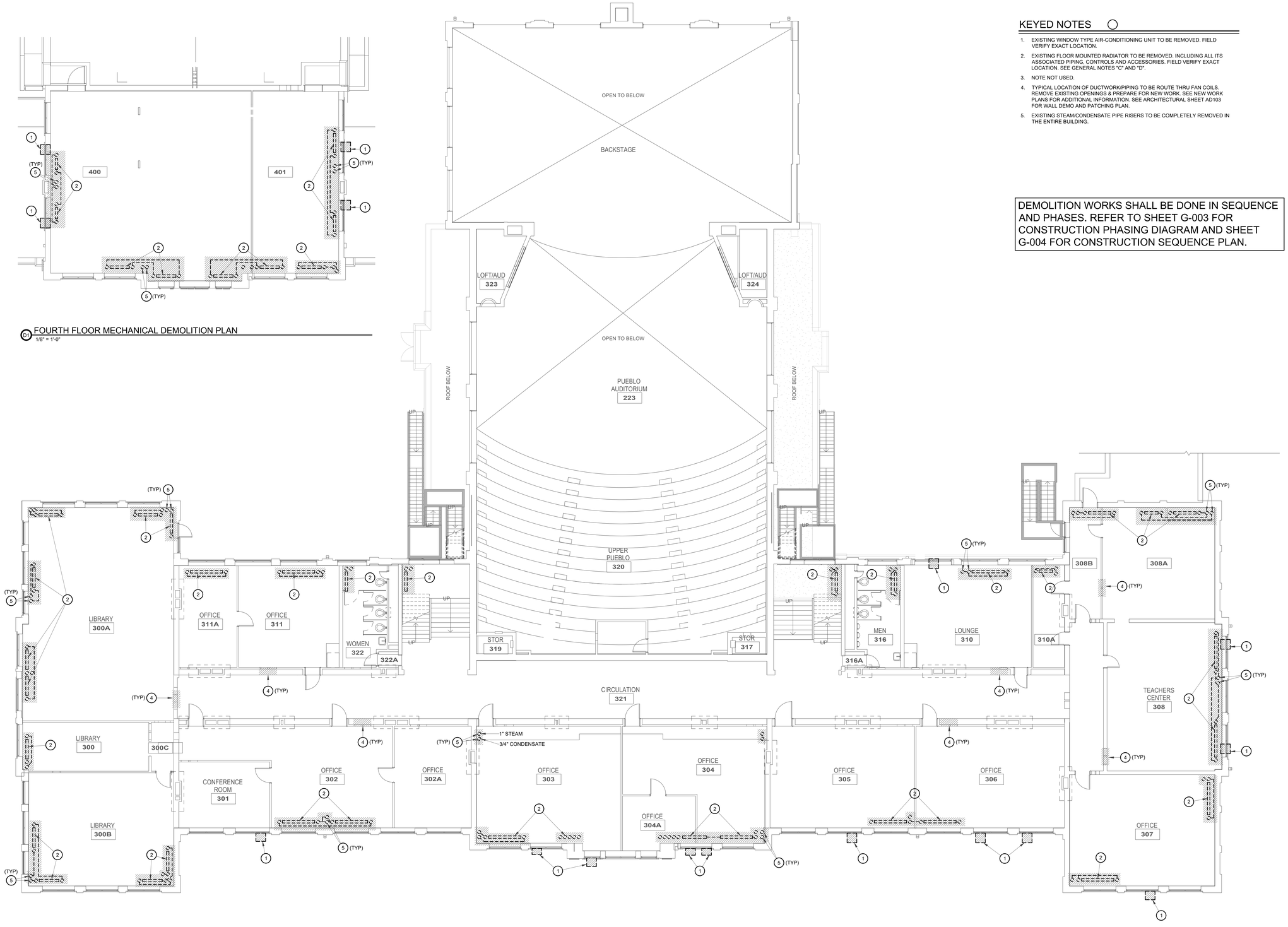
SHEET TITLE
SECOND FLOOR MECHANICAL DEMOLITION PLAN

SHEET
MD-102

D1 FOURTH FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"



A1 THIRD FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. TYPICAL TO ALL EXISTING RADIATORS IN BUILDING: DISCONNECT, REMOVE AND PATCH PIPING OPENINGS. PATCH AND PAINT WALL BEHIND RADIATOR.

D. SALVAGE ALL RADIATORS TO OWNER, PROTECT AS NECESSARY DURING CONSTRUCTION. GENERAL CONTRACTOR TO PALLETIZE, WRAP AND DELIVER TO 701 N. GARDEN AVE ROSWELL, NM 88201.

KEYED NOTES

1. EXISTING WINDOW TYPE AIR-CONDITIONING UNIT TO BE REMOVED. FIELD VERIFY EXACT LOCATION.
2. EXISTING FLOOR MOUNTED RADIATOR TO BE REMOVED. INCLUDING ALL ITS ASSOCIATED PIPING, CONTROLS AND ACCESSORIES. FIELD VERIFY EXACT LOCATION. SEE GENERAL NOTES "C" AND "D".
3. NOTE NOT USED.
4. TYPICAL LOCATION OF DUCTWORK/PIPING TO BE ROUTE THRU FAN COILS. REMOVE EXISTING OPENINGS & PREPARE FOR NEW WORK. SEE NEW WORK PLANS FOR ADDITIONAL INFORMATION. SEE ARCHITECTURAL SHEET AD103 FOR WALL DEMO AND PATCHING PLAN.
5. EXISTING STEAM/CONDENSATE PIPE RISERS TO BE COMPLETELY REMOVED IN THE ENTIRE BUILDING.

DEMOLITION WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

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1/18/2023

PROJECT
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OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

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Checked By	WAY

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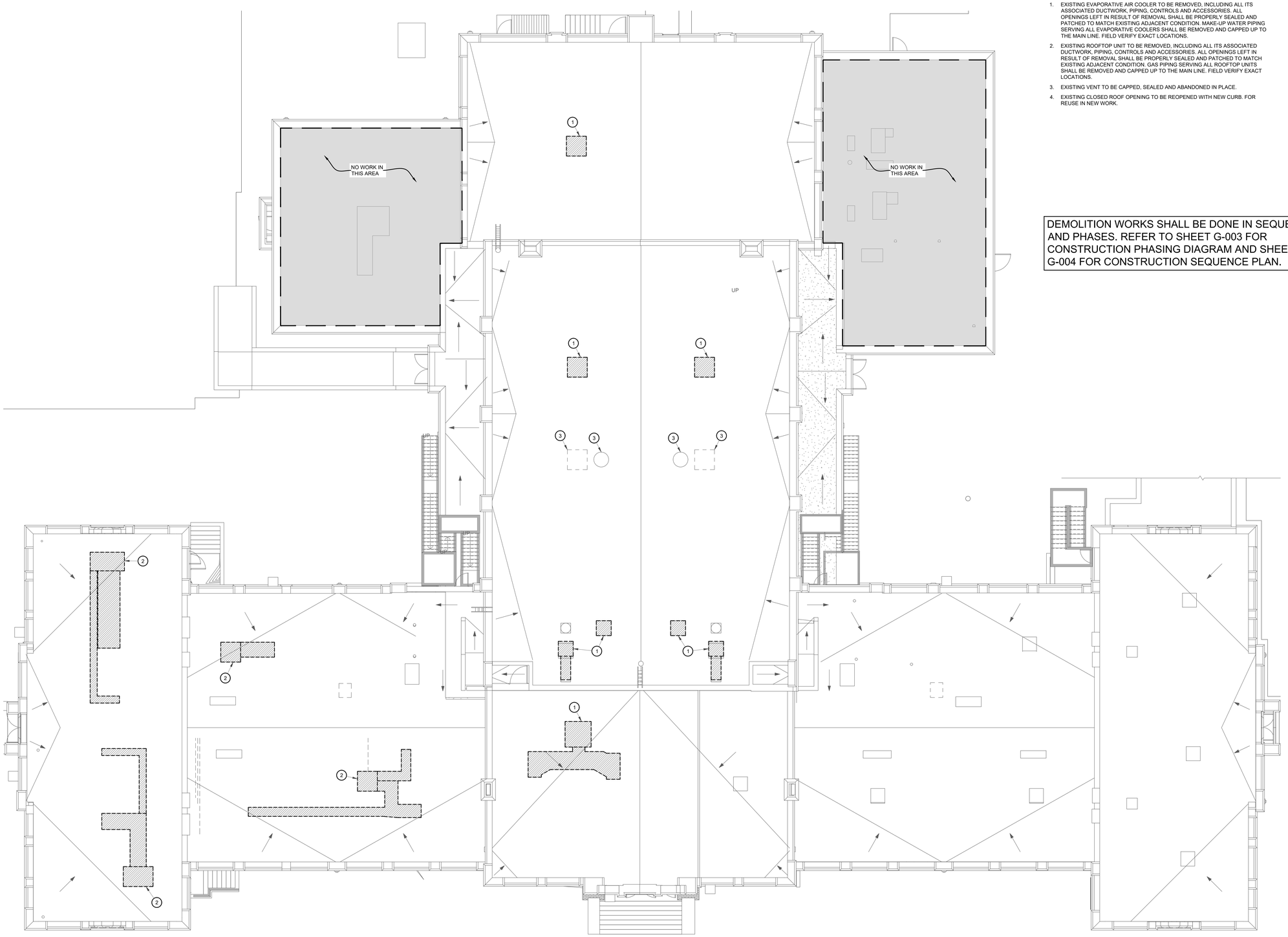
SHEET TITLE
THIRD & FOURTH FLOOR MECHANICAL DEMOLITION PLAN

SHEET
MD-103



A1 ROOF MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 FOR GENERAL NOTES, LEGEND & SCHEDULES.

KEYED NOTES

1. EXISTING EVAPORATIVE AIR COOLER TO BE REMOVED, INCLUDING ALL ITS ASSOCIATED DUCTWORK, PIPING, CONTROLS AND ACCESSORIES. ALL OPENINGS LEFT IN RESULT OF REMOVAL SHALL BE PROPERLY SEALED AND PATCHED TO MATCH EXISTING ADJACENT CONDITION. MAKE-UP WATER PIPING SERVING ALL EVAPORATIVE COOLERS SHALL BE REMOVED AND CAPPED UP TO THE MAIN LINE. FIELD VERIFY EXACT LOCATIONS.
2. EXISTING ROOFTOP UNIT TO BE REMOVED, INCLUDING ALL ITS ASSOCIATED DUCTWORK, PIPING, CONTROLS AND ACCESSORIES. ALL OPENINGS LEFT IN RESULT OF REMOVAL SHALL BE PROPERLY SEALED AND PATCHED TO MATCH EXISTING ADJACENT CONDITION. GAS PIPING SERVING ALL ROOFTOP UNITS SHALL BE REMOVED AND CAPPED UP TO THE MAIN LINE. FIELD VERIFY EXACT LOCATIONS.
3. EXISTING VENT TO BE CAPPED, SEALED AND ABANDONED IN PLACE.
4. EXISTING CLOSED ROOF OPENING TO BE REOPENED WITH NEW CURB. FOR REUSE IN NEW WORK.

DEMOLITION WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

0' 4' 8' 16' 32'

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ROSWELL INDEPENDENT SCHOOL DISTRICT

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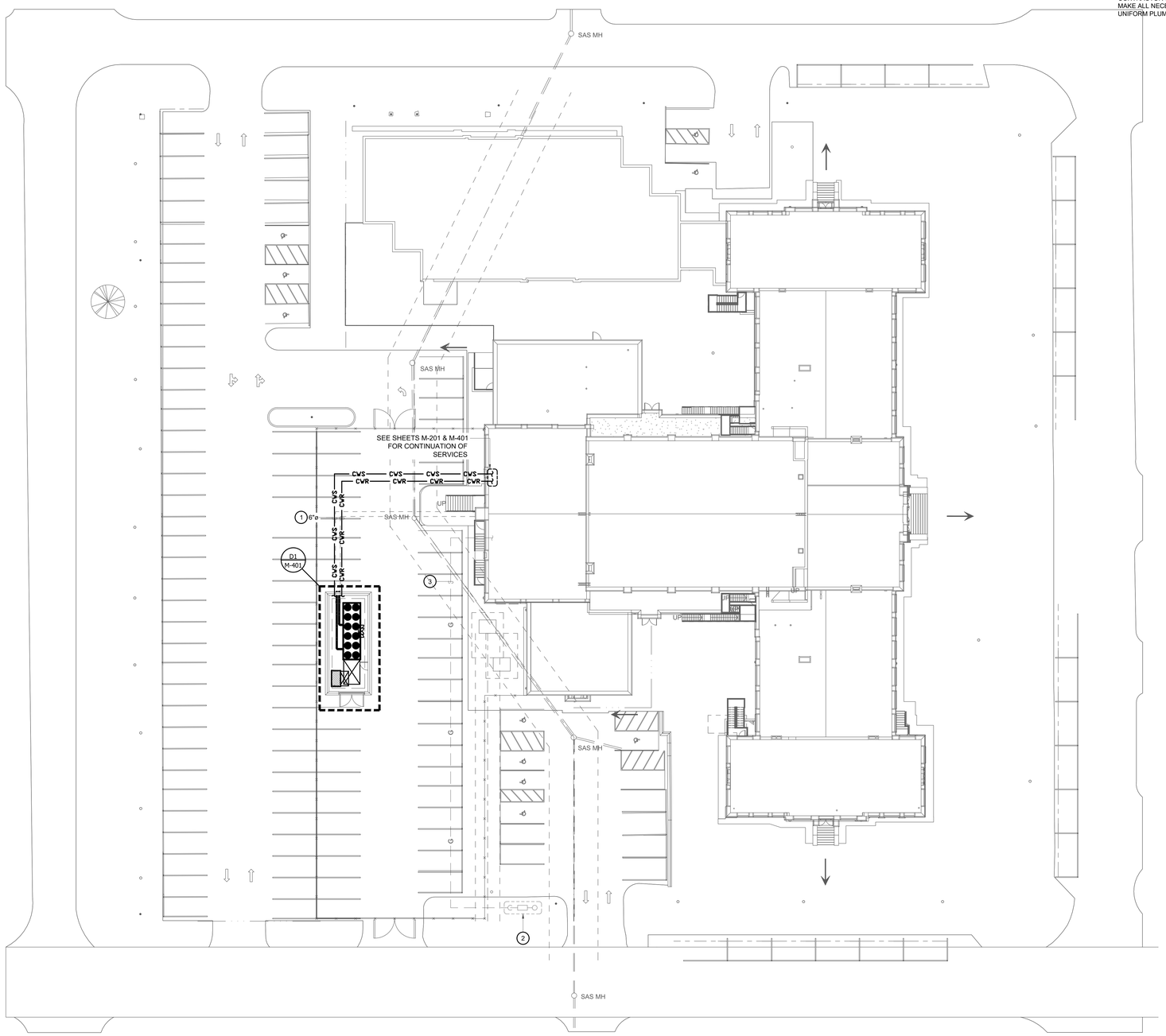
SHEET TITLE
ROOF MECHANICAL DEMOLITION PLAN

SHEET
MD-104



A1 MECHANICAL SITE PLAN
1"=20'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 & M-602 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. REFER TO SHEET M-401 FOR MECHANICAL ROOM ENLARGED PLANS.

KEYED NOTES

1. CHILLED WATER SUPPLY AND RETURN PIPING LOCATED BELOW GROUND. INSTALL PER DETAIL ON DETAIL SHEET M-501.

2. EXISTING GAS METER ASSEMBLY TO REMAIN FOR REUSE IN NEW WORK.

3. EXISTING GAS PIPING BELOW GROUND TO REMAIN FOR REUSE IN NEW WORK. CONTRACTOR SHALL PRESSURE TEST THE ENTIRE GAS PIPING SYSTEM AND MAKE ALL NECESSARY REPAIRS IF ANY. PRESSURE TEST SHALL CONFORM TO UNIFORM PLUMBING CODE.

GENERAL UTILITIES NOTES

A. CONTRACTOR NOTE: THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE SURVEY PROVIDED ARCHITECT, SITE INSPECTION, PREVIOUS EXISTING CONSTRUCTION DRAWINGS/RECORDS, AND DISCUSSIONS MUNICIPAL OFFICIALS. IT IS POSSIBLE THAT THE EXACT LOCATION OF BURIED LINES IN THE IMMEDIATE VICINITY OF THE PROPOSED BUILDING MAY BE SOMEWHAT DIFFERENT FROM THE LOCATION SHOWN ON THIS DRAWING. IF ADDITIONAL LINES ARE ENCOUNTERED, THEY SHALL BE EXPOSED AND IDENTIFIED BY THIS CONTRACTOR. WHERE ADDITIONAL LINES AND/OR DIFFERING LOCATIONS ARE ENCOUNTERED, THIS CONTRACTOR SHALL REQUEST THAT THE ARCHITECT ISSUE A RULING AS TO ANY NECESSARY CHANGE OF MATERIALS, RE-ROUTING, ABANDONING OR RELOCATING OF SUCH LINES.

B. ANY WORK OR INSTALLATION NOT ACCEPTED BY THE ARCHITECT OR MECHANICAL ENGINEER DUE TO IMPROPER WORKMANSHIP OR LACK OF PROPER COORDINATION SHALL BE REMOVED AND CORRECTLY INSTALLED AT THE MECHANICAL CONTRACTOR'S EXPENSE, AS DIRECTED.

C. MINIMUM DEPTH BELOW GRADE (COVER): WATER 48" SEWER 24" GAS 18"

D. SPECIFIC: THE CONTRACTOR SHALL BEAR ALL COSTS AND BE TOTALLY RESPONSIBLE FOR ALL OF THE UTILITY SERVICES AND THEIR COMPLETE INSTALLATION, AS SHOWN ON THE CONTRACT DRAWINGS, AND/OR DETAILS AND SPECIFICATIONS.

E. THE CONTRACTOR SHALL AND MUST INCLUDE IN HIS BID, THE COST OF ALL WORK AND EQUIPMENT COMPLETE WITH ALL COMPONENTS, ACCESSORIES AND APPURTENANCES, ETC., WHETHER FURNISHED AND INSTALLED BY THE CONTRACTOR OR OTHERS (I.E., BY PUBLIC UTILITY COMPANIES OR BY MUNICIPALITIES). THE CONTRACTOR'S COSTS SHALL INCLUDE (BUT ARE NOT LIMITED TO) CHARGES FOR ALL PERMITS, LICENSES, FRONTAGE FEES, METERS, METER PITS, BACKFLOW PREVENTERS, DETECTOR CHECK VALVES, CHECK VALVES, PRESSURE REGULATORS, ETC. HE SHALL ALSO INCLUDE ALL OTHER CURRENT CHARGES THAT MAY BE REQUIRED BY PUBLIC UTILITY COMPANIES OR BY MUNICIPALITIES IN PROVIDING ALL SERVICES REQUIRED BY THIS PROJECT.

F. REFER TO ARCHITECTURAL PLANS FOR COORDINATION WITH FINAL FINISHED AND EXISTING GRADES, AND OTHER SITE IMPROVEMENTS. ALSO REFER TO CIVIL, LANDSCAPING, AND ELECTRICAL DRAWINGS, AND OTHER DRAWINGS INCLUDED IN THIS SET OF CONTRACT DOCUMENTS.

G. SEWER PIPING BELOW SLAB OR PAVING, OR WITHIN 10' OF WATER LINES SHALL BE STANDARD WEIGHT CAST IRON.

H. CONTRACTOR SHALL SUBMIT IN WRITING, 10 DAYS PRIOR TO ANTICIPATED SHUT-DOWN OF EXISTING UTILITIES OR MAKE ANY NEW CONNECTIONS REQUIRED, INDICATING OWNER LOCATIONS OF CONNECTIONS AND AREAS AFFECTED BY SHUT-DOWN. IF A CANCELLATION OF NEW CONNECTIONS AND SHUT-DOWN IS REQUIRED, A 72-HOUR NOTICE WILL BE REQUIRED AND BE DELIVERED, IN WRITING, TO THE OWNER AND A NEW SCHEDULE SHALL BE SUBMITTED. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE OWNER WILL NOTIFY CONTRACTOR AND VERIFY THAT ANTICIPATED SHUT-DOWNS AND SCHEDULES ARE ACCEPTABLE.

I. CAUTION NOTES: THE CONTRACTOR SHALL HAND EXCAVATE FOR INSTALLATION OF ALL NEW UTILITIES CROSSING EXISTING ELECTRICAL (SEE ELECTRICAL DRAWINGS) AND GAS BURIED UTILITIES. HAND EXCAVATION SHALL BE PERFORMED SIX (6) FEET BEYOND THESE UTILITIES IN EACH DIRECTION, TYPICAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SUPPORT AND PROTECTION FOR EXISTING UTILITIES BEING CROSSED BY NEW UTILITIES AND UNDERMINED BY THE REQUIRED EXCAVATION.

J. THIS CONTRACTOR SHALL INSTALL PROPER (OSHA) BARRICADES IN PEDESTRIAN AND VEHICULAR TRAFFIC AREAS AS NEEDED TO INSURE SAFETY AND THAT ALL FEDERAL, STATE AND LOCATE STANDARDS ARE COMPLIED WITH.

K. CONTRACTOR SHALL MAKE EVERY EFFORT TO PROMPTLY COVER ALL PIPE TRENCHES AND OTHER EXCAVATION SITES TO MINIMIZE ANY POTENTIAL HAZARDS.

0' 10' 20' 40' 80'

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PROJECT

AESC HVAC UPGRADES

OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS

CONSTRUCTION DOCUMENTS

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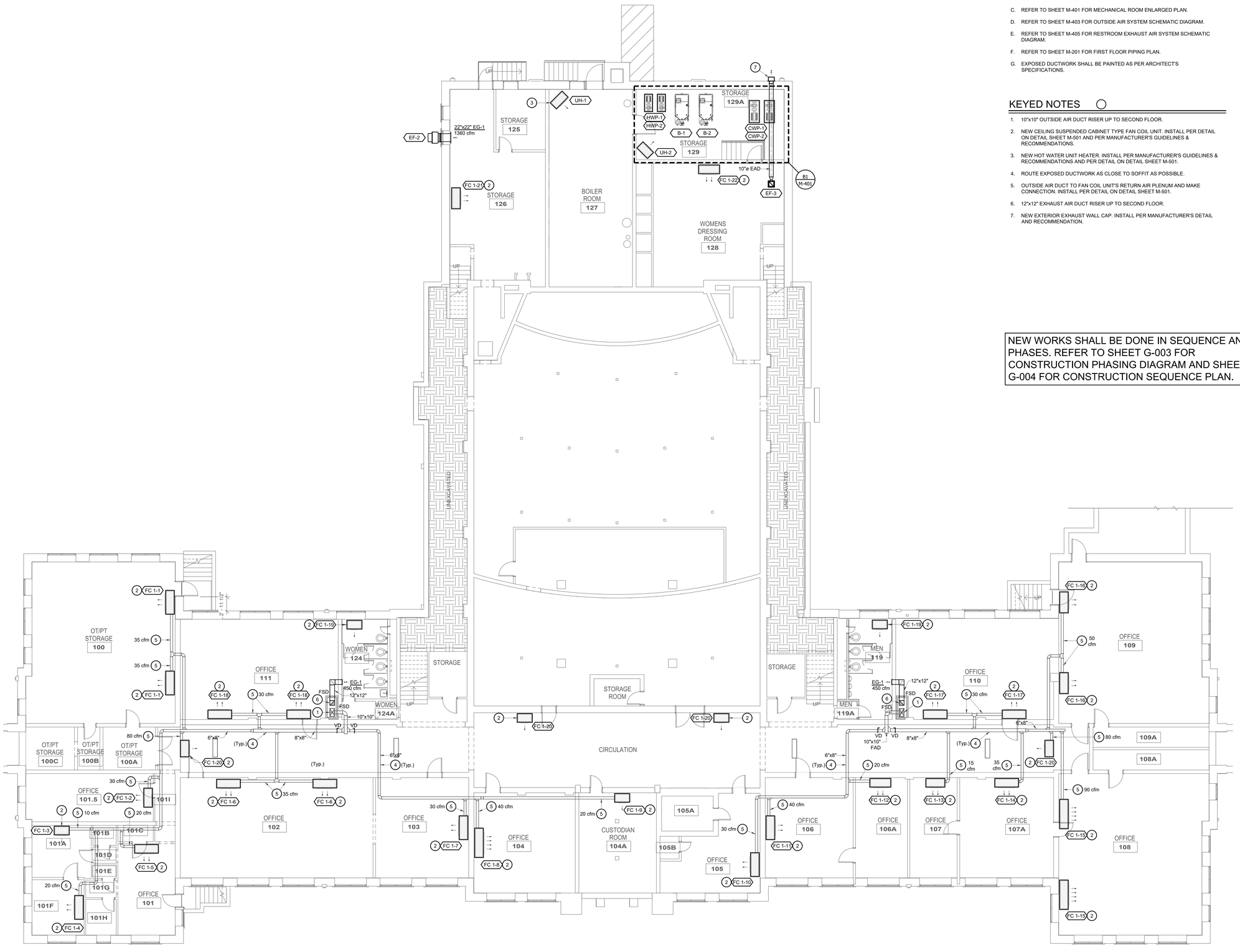
SHEET TITLE

MECHANICAL SITE PLAN

SHEET

MS-101



A1 FIRST FLOOR HVAC PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 & M-602 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. REFER TO SHEET M-401 FOR MECHANICAL ROOM ENLARGED PLAN.

D. REFER TO SHEET M-403 FOR OUTSIDE AIR SYSTEM SCHEMATIC DIAGRAM.

E. REFER TO SHEET M-405 FOR RESTROOM EXHAUST AIR SYSTEM SCHEMATIC DIAGRAM.

F. REFER TO SHEET M-201 FOR FIRST FLOOR PIPING PLAN.

G. EXPOSED DUCTWORK SHALL BE PAINTED AS PER ARCHITECT'S SPECIFICATIONS.

KEYED NOTES

1. 10"x10" OUTSIDE AIR DUCT RISER UP TO SECOND FLOOR.
2. NEW CEILING SUSPENDED CABINET TYPE FAN COIL UNIT. INSTALL PER DETAIL ON DETAIL SHEET M-501 AND PER MANUFACTURER'S GUIDELINES & RECOMMENDATIONS.
3. NEW HOT WATER UNIT HEATER. INSTALL PER MANUFACTURER'S GUIDELINES & RECOMMENDATIONS AND PER DETAIL ON DETAIL SHEET M-501.
4. ROUTE EXPOSED DUCTWORK AS CLOSE TO SOFFIT AS POSSIBLE.
5. OUTSIDE AIR DUCT TO FAN COIL UNIT'S RETURN AIR PLENUM AND MAKE CONNECTION. INSTALL PER DETAIL ON DETAIL SHEET M-501.
6. 12"x12" EXHAUST AIR DUCT RISER UP TO SECOND FLOOR.
7. NEW EXTERIOR EXHAUST WALL CAP. INSTALL PER MANUFACTURER'S DETAIL AND RECOMMENDATION.

NEW WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

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PROJECT
AESC HVAC UPGRADES

OWNER
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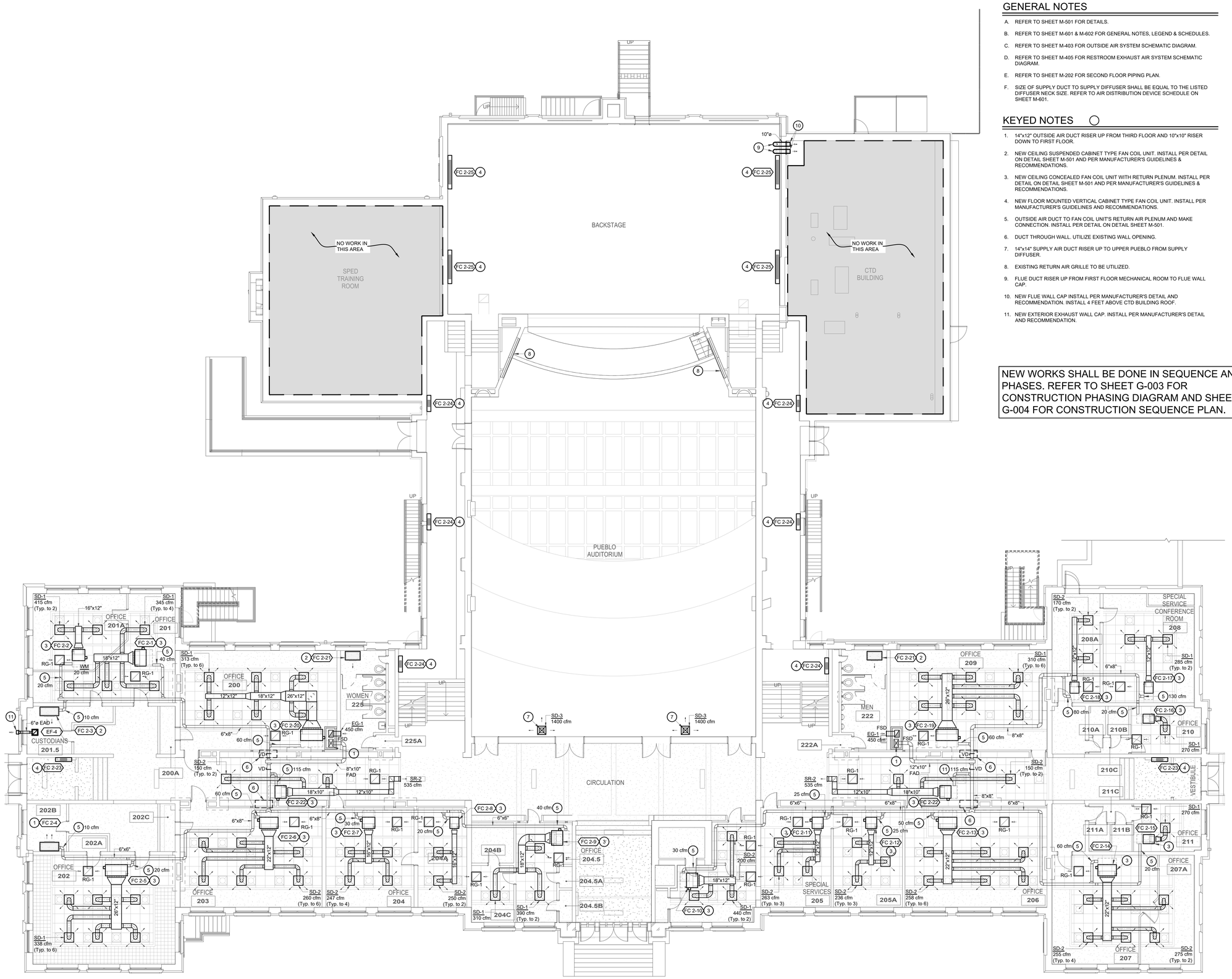
SHEET TITLE
FIRST FLOOR HVAC PLAN

SHEET
M-101



A1 SECOND FLOOR HVAC PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 & M-602 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. REFER TO SHEET M-403 FOR OUTSIDE AIR SYSTEM SCHEMATIC DIAGRAM.

D. REFER TO SHEET M-405 FOR RESTROOM EXHAUST AIR SYSTEM SCHEMATIC DIAGRAM.

E. REFER TO SHEET M-202 FOR SECOND FLOOR PIPING PLAN.

F. SIZE OF SUPPLY DUCT TO SUPPLY DIFFUSER SHALL BE EQUAL TO THE LISTED DIFFUSER NECK SIZE. REFER TO AIR DISTRIBUTION DEVICE SCHEDULE ON SHEET M-601.

KEYED NOTES

1. 14"x12" OUTSIDE AIR DUCT RISER UP FROM THIRD FLOOR AND 10"x10" RISER DOWN TO FIRST FLOOR.
2. NEW CEILING SUSPENDED CABINET TYPE FAN COIL UNIT. INSTALL PER DETAIL ON DETAIL SHEET M-501 AND PER MANUFACTURER'S GUIDELINES & RECOMMENDATIONS.
3. NEW CEILING CONCEALED FAN COIL UNIT WITH RETURN PLENUM. INSTALL PER DETAIL ON DETAIL SHEET M-501 AND PER MANUFACTURER'S GUIDELINES & RECOMMENDATIONS.
4. NEW FLOOR MOUNTED VERTICAL CABINET TYPE FAN COIL UNIT. INSTALL PER MANUFACTURER'S GUIDELINES AND RECOMMENDATIONS.
5. OUTSIDE AIR DUCT TO FAN COIL UNIT'S RETURN AIR PLENUM AND MAKE CONNECTION. INSTALL PER DETAIL ON DETAIL SHEET M-501.
6. DUCT THROUGH WALL. UTILIZE EXISTING WALL OPENING.
7. 14"x14" SUPPLY AIR DUCT RISER UP TO UPPER PUEBLO FROM SUPPLY DIFFUSER.
8. EXISTING RETURN AIR GRILLE TO BE UTILIZED.
9. FLUE DUCT RISER UP FROM FIRST FLOOR MECHANICAL ROOM TO FLUE WALL CAP.
10. NEW FLUE WALL CAP INSTALL PER MANUFACTURER'S DETAIL AND RECOMMENDATION. INSTALL 4 FEET ABOVE CTD BUILDING ROOF.
11. NEW EXTERIOR EXHAUST WALL CAP. INSTALL PER MANUFACTURER'S DETAIL AND RECOMMENDATION.

NEW WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

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PROJECT

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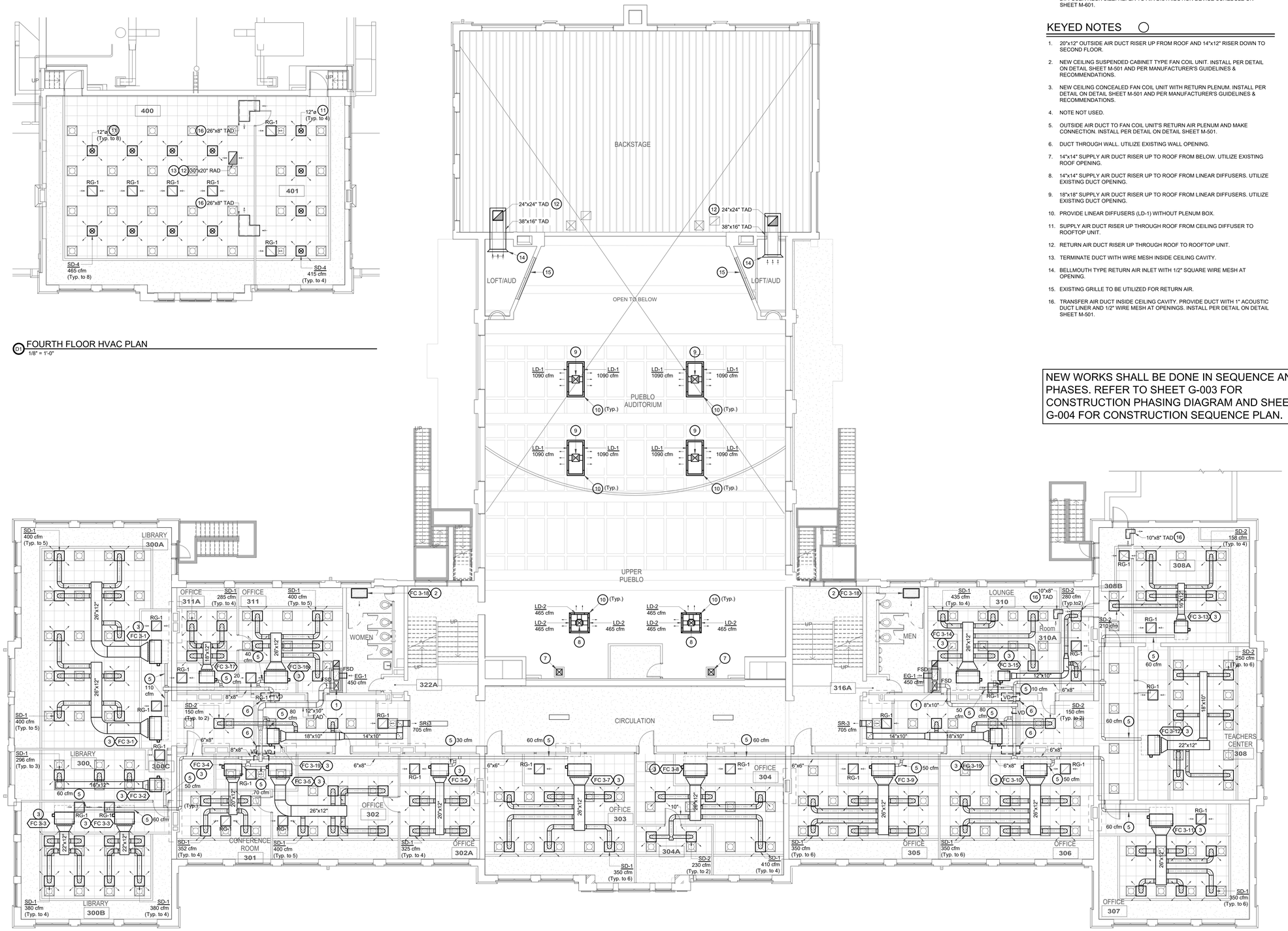
SHEET TITLE

SECOND FLOOR HVAC PLAN

SHEET

M-102

D1 FOURTH FLOOR HVAC PLAN
1/8" = 1'-0"



A1 THIRD FLOOR HVAC PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 & M-602 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. REFER TO SHEET M-403 FOR OUTSIDE AIR SYSTEM SCHEMATIC DIAGRAM.

D. REFER TO SHEET M-405 FOR RESTROOM EXHAUST AIR SYSTEM SCHEMATIC DIAGRAM.

E. REFER TO SHEET M-203 FOR THIRD FLOOR PIPING PLAN.

F. SIZE OF SUPPLY DUCT TO SUPPLY DIFFUSER SHALL BE EQUAL TO THE LISTED DIFFUSER NECK SIZE. REFER TO AIR DISTRIBUTION DEVICE SCHEDULE ON SHEET M-601.

KEYED NOTES

1. 20"x12" OUTSIDE AIR DUCT RISER UP FROM ROOF AND 14"x12" RISER DOWN TO SECOND FLOOR.
2. NEW CEILING SUSPENDED CABINET TYPE FAN COIL UNIT. INSTALL PER DETAIL ON DETAIL SHEET M-501 AND PER MANUFACTURER'S GUIDELINES & RECOMMENDATIONS.
3. NEW CEILING CONCEALED FAN COIL UNIT WITH RETURN PLENUM. INSTALL PER DETAIL ON DETAIL SHEET M-501 AND PER MANUFACTURER'S GUIDELINES & RECOMMENDATIONS.
4. NOTE NOT USED.
5. OUTSIDE AIR DUCT TO FAN COIL UNIT'S RETURN AIR PLENUM AND MAKE CONNECTION. INSTALL PER DETAIL ON DETAIL SHEET M-501.
6. DUCT THROUGH WALL. UTILIZE EXISTING WALL OPENING.
7. 14"x14" SUPPLY AIR DUCT RISER UP TO ROOF FROM BELOW. UTILIZE EXISTING ROOF OPENING.
8. 14"x14" SUPPLY AIR DUCT RISER UP TO ROOF FROM LINEAR DIFFUSERS. UTILIZE EXISTING DUCT OPENING.
9. 18"x18" SUPPLY AIR DUCT RISER UP TO ROOF FROM LINEAR DIFFUSERS. UTILIZE EXISTING DUCT OPENING.
10. PROVIDE LINEAR DIFFUSERS (LD-1) WITHOUT PLENUM BOX.
11. SUPPLY AIR DUCT RISER UP THROUGH ROOF FROM CEILING DIFFUSER TO ROOFTOP UNIT.
12. RETURN AIR DUCT RISER UP THROUGH ROOF TO ROOFTOP UNIT.
13. TERMINATE DUCT WITH WIRE MESH INSIDE CEILING CAVITY.
14. BELLMOUTH TYPE RETURN AIR INLET WITH 1/2" SQUARE WIRE MESH AT OPENING.
15. EXISTING GRILLE TO BE UTILIZED FOR RETURN AIR.
16. TRANSFER AIR DUCT INSIDE CEILING CAVITY. PROVIDE DUCT WITH 1" ACOUSTIC DUCT LINER AND 1/2" WIRE MESH AT OPENINGS. INSTALL PER DETAIL ON DETAIL SHEET M-501.

NEW WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

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AESC HVAC UPGRADES

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300 N. KENTUCKY, ROSWELL, NM 88201

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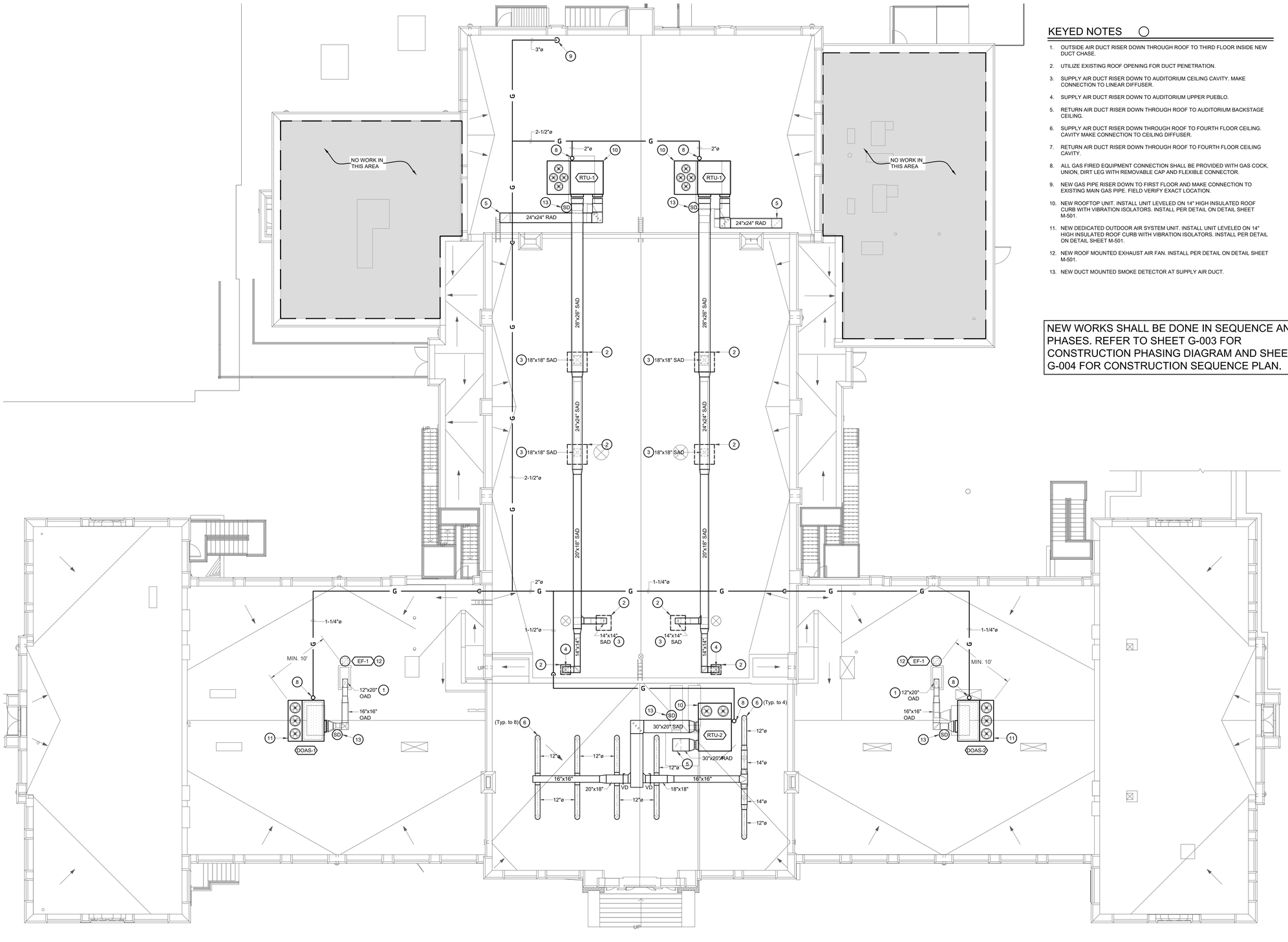
SHEET TITLE
THIRD & FOURTH FLOOR HVAC PLAN

SHEET
M-103



A1 HVAC ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 & M-602 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. REFER TO SHEET M-403 FOR OUTSIDE AIR SYSTEM SCHEMATIC DIAGRAM.

D. REFER TO SHEET M-405 FOR RESTROOM EXHAUST AIR SYSTEM SCHEMATIC DIAGRAM.

KEYED NOTES

1. OUTSIDE AIR DUCT RISER DOWN THROUGH ROOF TO THIRD FLOOR INSIDE NEW DUCT CHASE.
2. UTILIZE EXISTING ROOF OPENING FOR DUCT PENETRATION.
3. SUPPLY AIR DUCT RISER DOWN TO AUDITORIUM CEILING CAVITY. MAKE CONNECTION TO LINEAR DIFFUSER.
4. SUPPLY AIR DUCT RISER DOWN TO AUDITORIUM UPPER PUEBLO.
5. RETURN AIR DUCT RISER DOWN THROUGH ROOF TO AUDITORIUM BACKSTAGE CEILING.
6. SUPPLY AIR DUCT RISER DOWN THROUGH ROOF TO FOURTH FLOOR CEILING. CAVITY MAKE CONNECTION TO CEILING DIFFUSER.
7. RETURN AIR DUCT RISER DOWN THROUGH ROOF TO FOURTH FLOOR CEILING CAVITY.
8. ALL GAS FIRED EQUIPMENT CONNECTION SHALL BE PROVIDED WITH GAS COCK, UNION, DIRT LEG WITH REMOVABLE CAP AND FLEXIBLE CONNECTOR.
9. NEW GAS PIPE RISER DOWN TO FIRST FLOOR AND MAKE CONNECTION TO EXISTING MAIN GAS PIPE. FIELD VERIFY EXACT LOCATION.
10. NEW ROOFTOP UNIT. INSTALL UNIT LEVELED ON 14" HIGH INSULATED ROOF CURB WITH VIBRATION ISOLATORS. INSTALL PER DETAIL ON DETAIL SHEET M-501.
11. NEW DEDICATED OUTDOOR AIR SYSTEM UNIT. INSTALL UNIT LEVELED ON 14" HIGH INSULATED ROOF CURB WITH VIBRATION ISOLATORS. INSTALL PER DETAIL ON DETAIL SHEET M-501.
12. NEW ROOF MOUNTED EXHAUST AIR FAN. INSTALL PER DETAIL ON DETAIL SHEET M-501.
13. NEW DUCT MOUNTED SMOKE DETECTOR AT SUPPLY AIR DUCT.

NEW WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

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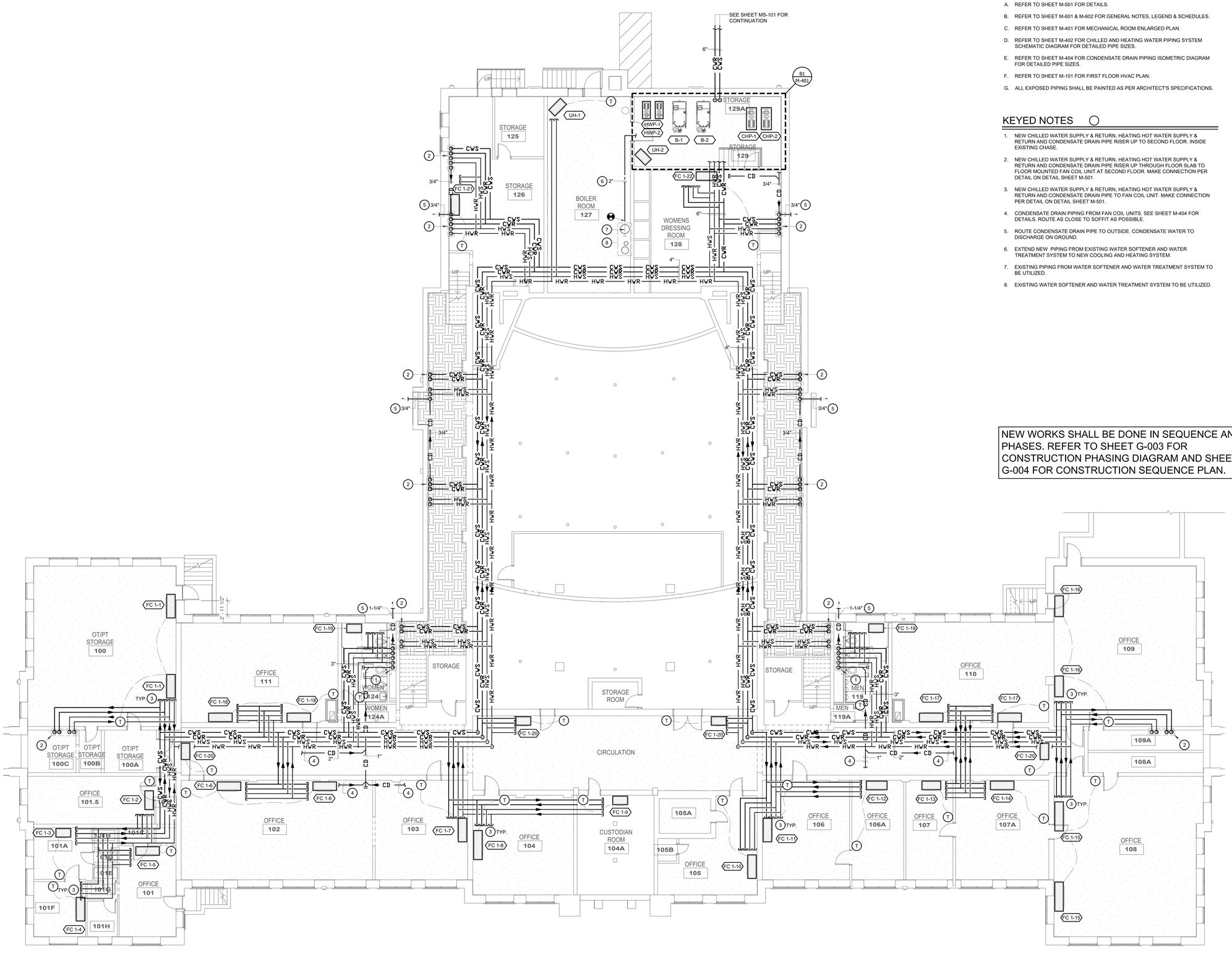
SHEET TITLE
HVAC ROOF PLAN

SHEET
M-104



A1 FIRST FLOOR PIPING PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 & M-602 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. REFER TO SHEET M-401 FOR MECHANICAL ROOM ENLARGED PLAN.

D. REFER TO SHEET M-402 FOR CHILLED AND HEATING WATER PIPING SYSTEM SCHEMATIC DIAGRAM FOR DETAILED PIPE SIZES.

E. REFER TO SHEET M-404 FOR CONDENSATE DRAIN PIPING ISOMETRIC DIAGRAM FOR DETAILED PIPE SIZES.

F. REFER TO SHEET M-101 FOR FIRST FLOOR HVAC PLAN.

G. ALL EXPOSED PIPING SHALL BE PAINTED AS PER ARCHITECT'S SPECIFICATIONS.

KEYED NOTES

1. NEW CHILLED WATER SUPPLY & RETURN, HEATING HOT WATER SUPPLY & RETURN AND CONDENSATE DRAIN PIPE RISER UP TO SECOND FLOOR. INSIDE EXISTING CHASE.
2. NEW CHILLED WATER SUPPLY & RETURN, HEATING HOT WATER SUPPLY & RETURN AND CONDENSATE DRAIN PIPE RISER UP THROUGH FLOOR SLAB TO FLOOR MOUNTED FAN COIL UNIT AT SECOND FLOOR. MAKE CONNECTION PER DETAIL ON DETAIL SHEET M-501.
3. NEW CHILLED WATER SUPPLY & RETURN, HEATING HOT WATER SUPPLY & RETURN AND CONDENSATE DRAIN PIPE TO FAN COIL UNIT. MAKE CONNECTION PER DETAIL ON DETAIL SHEET M-501.
4. CONDENSATE DRAIN PIPING FROM FAN COIL UNITS. SEE SHEET M-404 FOR DETAILS. ROUTE AS CLOSE TO SOFFIT AS POSSIBLE.
5. ROUTE CONDENSATE DRAIN PIPE TO OUTSIDE. CONDENSATE WATER TO DISCHARGE ON GROUND.
6. EXTEND NEW PIPING FROM EXISTING WATER SOFTENER AND WATER TREATMENT SYSTEM TO NEW COOLING AND HEATING SYSTEM.
7. EXISTING PIPING FROM WATER SOFTENER AND WATER TREATMENT SYSTEM TO BE UTILIZED.
8. EXISTING WATER SOFTENER AND WATER TREATMENT SYSTEM TO BE UTILIZED.

NEW WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

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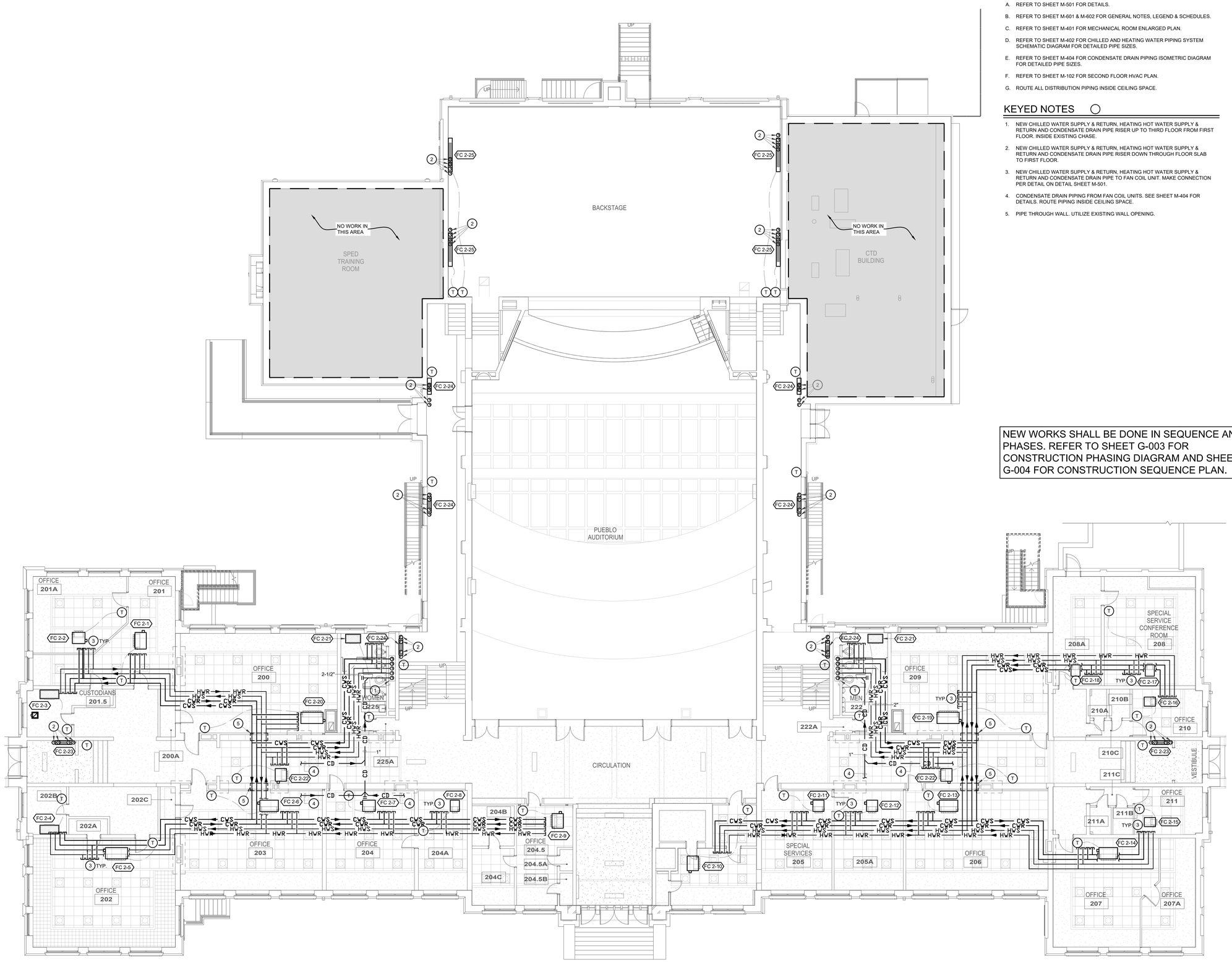
SHEET TITLE

FIRST FLOOR PIPING PLAN

SHEET

M-201



A1 SECOND FLOOR PIPING PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 & M-602 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. REFER TO SHEET M-401 FOR MECHANICAL ROOM ENLARGED PLAN.

D. REFER TO SHEET M-402 FOR CHILLED AND HEATING WATER PIPING SYSTEM SCHEMATIC DIAGRAM FOR DETAILED PIPE SIZES.

E. REFER TO SHEET M-404 FOR CONDENSATE DRAIN PIPING ISOMETRIC DIAGRAM FOR DETAILED PIPE SIZES.

F. REFER TO SHEET M-102 FOR SECOND FLOOR HVAC PLAN.

G. ROUTE ALL DISTRIBUTION PIPING INSIDE CEILING SPACE.

KEYED NOTES

1. NEW CHILLED WATER SUPPLY & RETURN, HEATING HOT WATER SUPPLY & RETURN AND CONDENSATE DRAIN PIPE RISER UP TO THIRD FLOOR FROM FIRST FLOOR. INSIDE EXISTING CHASE.
2. NEW CHILLED WATER SUPPLY & RETURN, HEATING HOT WATER SUPPLY & RETURN AND CONDENSATE DRAIN PIPE RISER DOWN THROUGH FLOOR SLAB TO FIRST FLOOR.
3. NEW CHILLED WATER SUPPLY & RETURN, HEATING HOT WATER SUPPLY & RETURN AND CONDENSATE DRAIN PIPE TO FAN COIL UNIT. MAKE CONNECTION PER DETAIL ON DETAIL SHEET M-501.
4. CONDENSATE DRAIN PIPING FROM FAN COIL UNITS. SEE SHEET M-404 FOR DETAILS. ROUTE PIPING INSIDE CEILING SPACE.
5. PIPE THROUGH WALL. UTILIZE EXISTING WALL OPENING.

NEW WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

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1/18/2023

PROJECT

AESC HVAC UPGRADES

OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

300 N. KENTUCKY, ROSWELL, NM 88201

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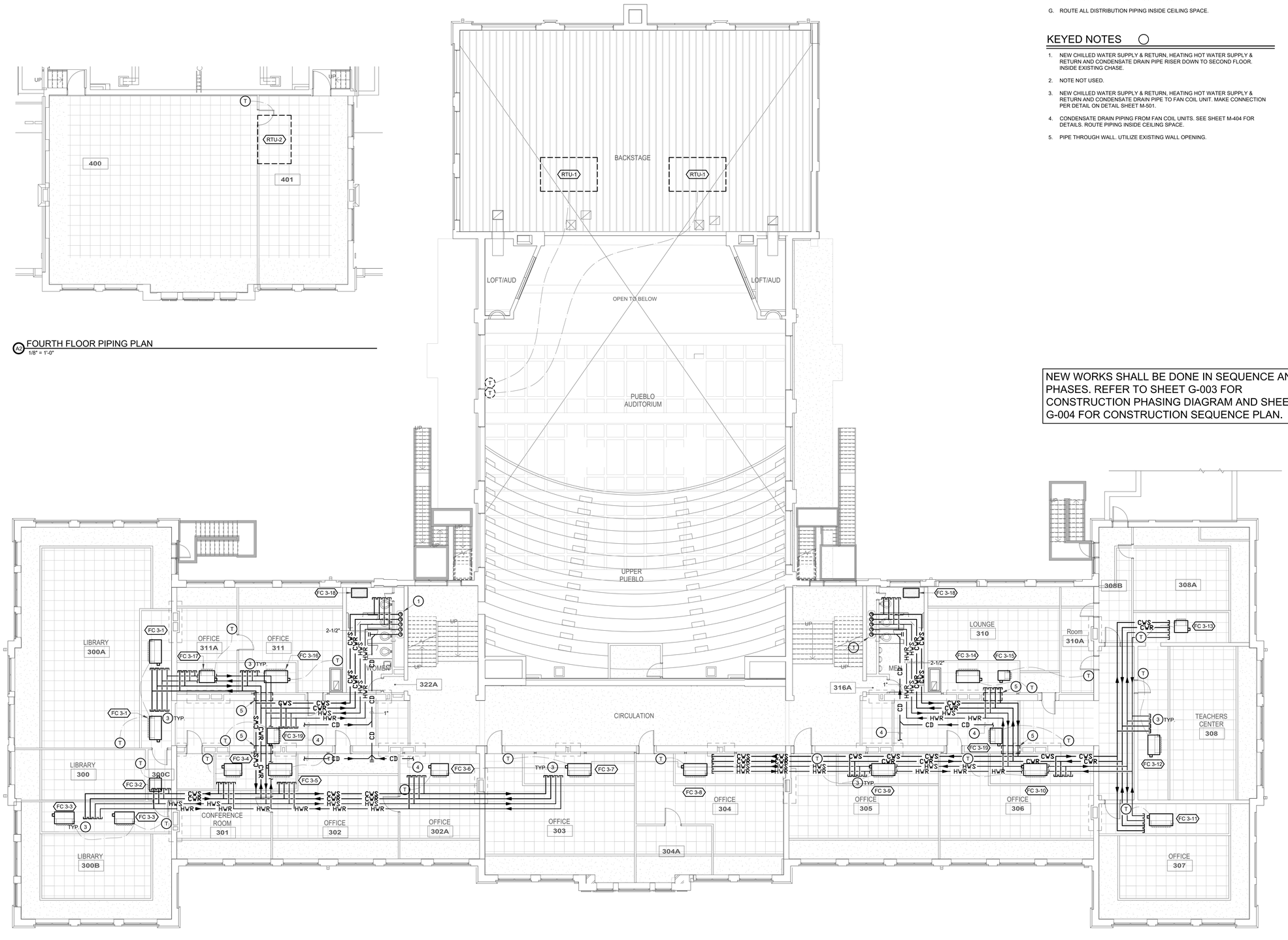
SHEET TITLE

SECOND FLOOR PIPING PLAN

SHEET

M-202

A2 FOURTH FLOOR PIPING PLAN
1/8" = 1'-0"



A1 THIRD FLOOR PIPING PLAN
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET M-501 FOR DETAILS.

B. REFER TO SHEET M-601 & M-602 FOR GENERAL NOTES, LEGEND & SCHEDULES.

C. REFER TO SHEET M-401 FOR MECHANICAL ROOM ENLARGED PLAN.

D. REFER TO SHEET M-402 FOR CHILLED AND HEATING WATER PIPING SYSTEM SCHEMATIC DIAGRAM FOR DETAILED PIPE SIZES.

E. REFER TO SHEET M-404 FOR CONDENSATE DRAIN PIPING ISOMETRIC DIAGRAM FOR DETAILED PIPE SIZES.

F. REFER TO SHEET M-102 FOR SECOND FLOOR HVAC PLAN.

G. ROUTE ALL DISTRIBUTION PIPING INSIDE CEILING SPACE.

KEYED NOTES

1. NEW CHILLED WATER SUPPLY & RETURN, HEATING HOT WATER SUPPLY & RETURN AND CONDENSATE DRAIN PIPE RISER DOWN TO SECOND FLOOR. INSIDE EXISTING CHASE.
2. NOTE NOT USED.
3. NEW CHILLED WATER SUPPLY & RETURN, HEATING HOT WATER SUPPLY & RETURN AND CONDENSATE DRAIN PIPE TO FAN COIL UNIT. MAKE CONNECTION PER DETAIL ON DETAIL SHEET M-501.
4. CONDENSATE DRAIN PIPING FROM FAN COIL UNITS. SEE SHEET M-404 FOR DETAILS. ROUTE PIPING INSIDE CEILING SPACE.
5. PIPE THROUGH WALL. UTILIZE EXISTING WALL OPENING.

NEW WORKS SHALL BE DONE IN SEQUENCE AND PHASES. REFER TO SHEET G-003 FOR CONSTRUCTION PHASING DIAGRAM AND SHEET G-004 FOR CONSTRUCTION SEQUENCE PLAN.

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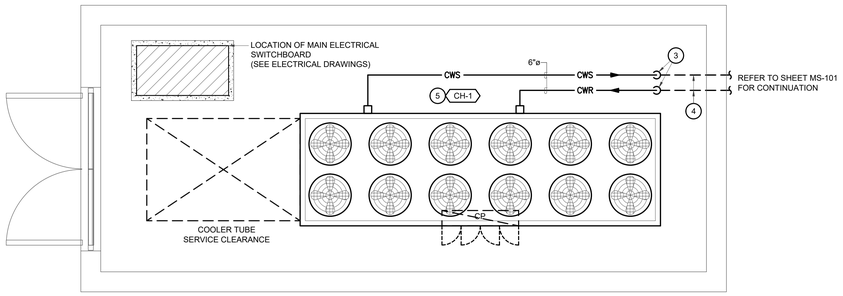
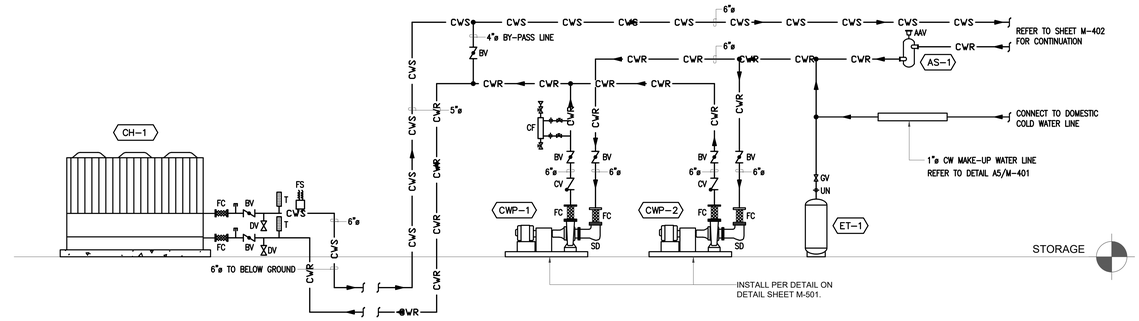
SHEET TITLE
THIRD & FOURTH FLOOR PIPING PLAN

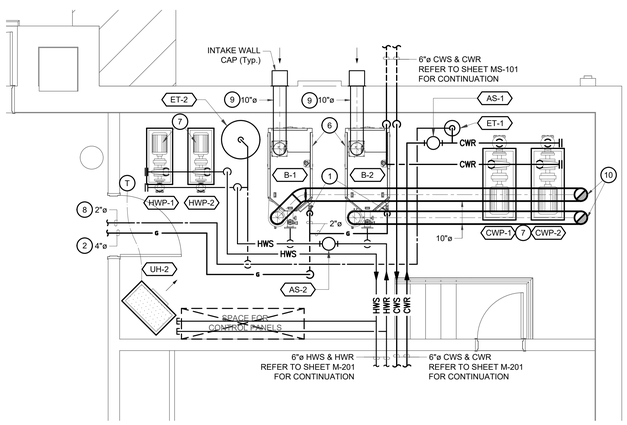
SHEET
M-203



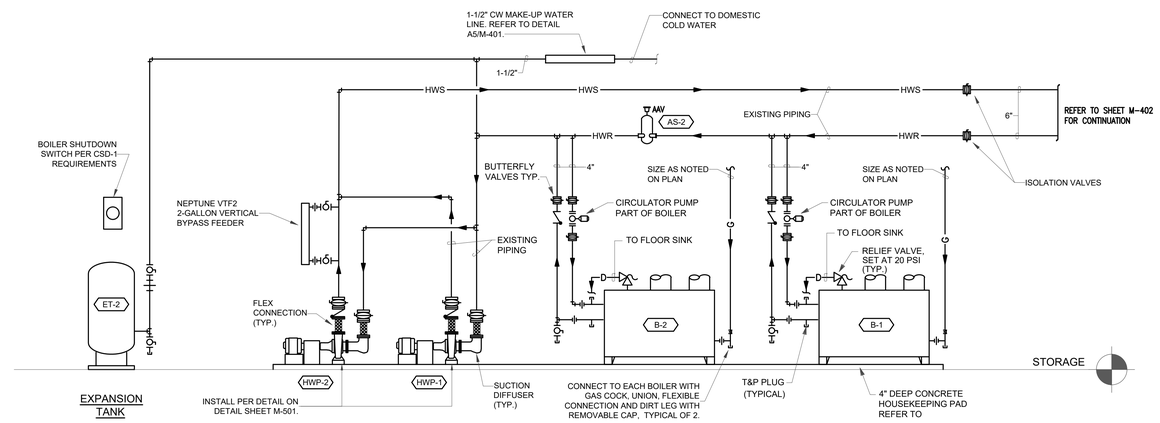
D1 CHILLER PLANT YARD ENLARGED PLAN
1/4"=1'-0"



D4 CHILLER PLANT PIPING SCHEMATIC
NTS



B1 MECHANICAL ROOM ENLARGED PLAN
1/4"=1'-0"



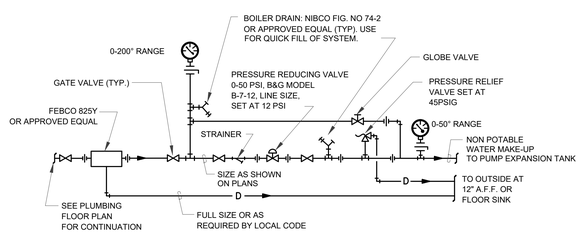
B4 BOILER PLANT PIPING SCHEMATIC
NTS

KEYED NOTES

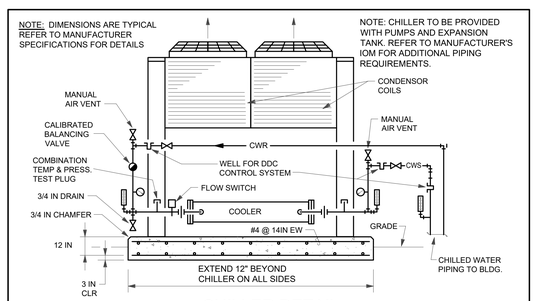
1. ALL GAS FIRED EQUIPMENT CONNECTION SHALL BE PROVIDED WITH GAS COCK, UNION, DIRT LEG WITH REMOVABLE CAP AND FLEXIBLE CONNECTOR.
2. CONNECT TO EXISTING GAS PIPING. FIELD VERIFY EXACT LOCATION.
3. CHILLED WATER SUPPLY AND RETURN PIPING TO BELOW GROUND.
4. CHILLED WATER SUPPLY AND RETURN PIPING LOCATED BELOW GROUND. INSTALL PER DETAIL ON DETAIL SHEET M-501.
5. INSTALL NEW AIR-COOLED CHILLER AS PER MANUFACTURER'S REQUIREMENTS AND CLEARANCES AND PER DETAIL.
6. INSTALL NEW BOILER AS PER MANUFACTURER'S REQUIREMENTS AND CLEARANCES. PROVIDE NEW 4" THICK HOUSEKEEPING PAD TO EXTEND 6" BEYOND THE EQUIPMENT.
7. INSTALL NEW HYDRONIC PUMPS AS PER MANUFACTURER'S REQUIREMENTS AND CLEARANCES. PROVIDE NEW 4" THICK HOUSEKEEPING PAD TO EXTEND 6" BEYOND THE EQUIPMENT.
8. NEW MAKEUP WATER LINE. CONNECT TO EXISTING WATER SOFTENER SYSTEM. FIELD VERIFY EXACT LOCATION.
9. NEW INTAKE AIR DUCT FROM BOILER. TERMINATE WITH WALL CAP.
10. FLUE DUCT RISER UP THROUGH FLOOR SLAB TO AUDITORIUM BACKSTAGE AREA.

ABBREVIATIONS:

AAV	:	AUTOMATIC AIR VENT
AS	:	AIR SEPARATOR
B	:	BOILER
BV	:	BUTTERFLY VALVE
CF	:	CHEMICAL FEEDER TANK
CH	:	CHILLER
CWP	:	CHILLED WATER PUMP
CWR	:	CHILLED WATER RETURN
CWS	:	CHILLED WATER SUPPLY
CV	:	CHECK VALVE
DV	:	DRAIN VALVE
ET	:	EXPANSION TANK
FC	:	FLEXIBLE CONNECTOR
GV	:	GATE VALVE
HWP	:	HOT WATER PUMP
HWR	:	HOT WATER RETURN
HWS	:	HOT WATER SUPPLY
SD	:	SUCTION DIFFUSER
T	:	THERMOSTAT
UN	:	UNION



A4 COLD WATER MAKE-UP DIAGRAM
NTS



CHILLER DETAIL
SCALE: NONE

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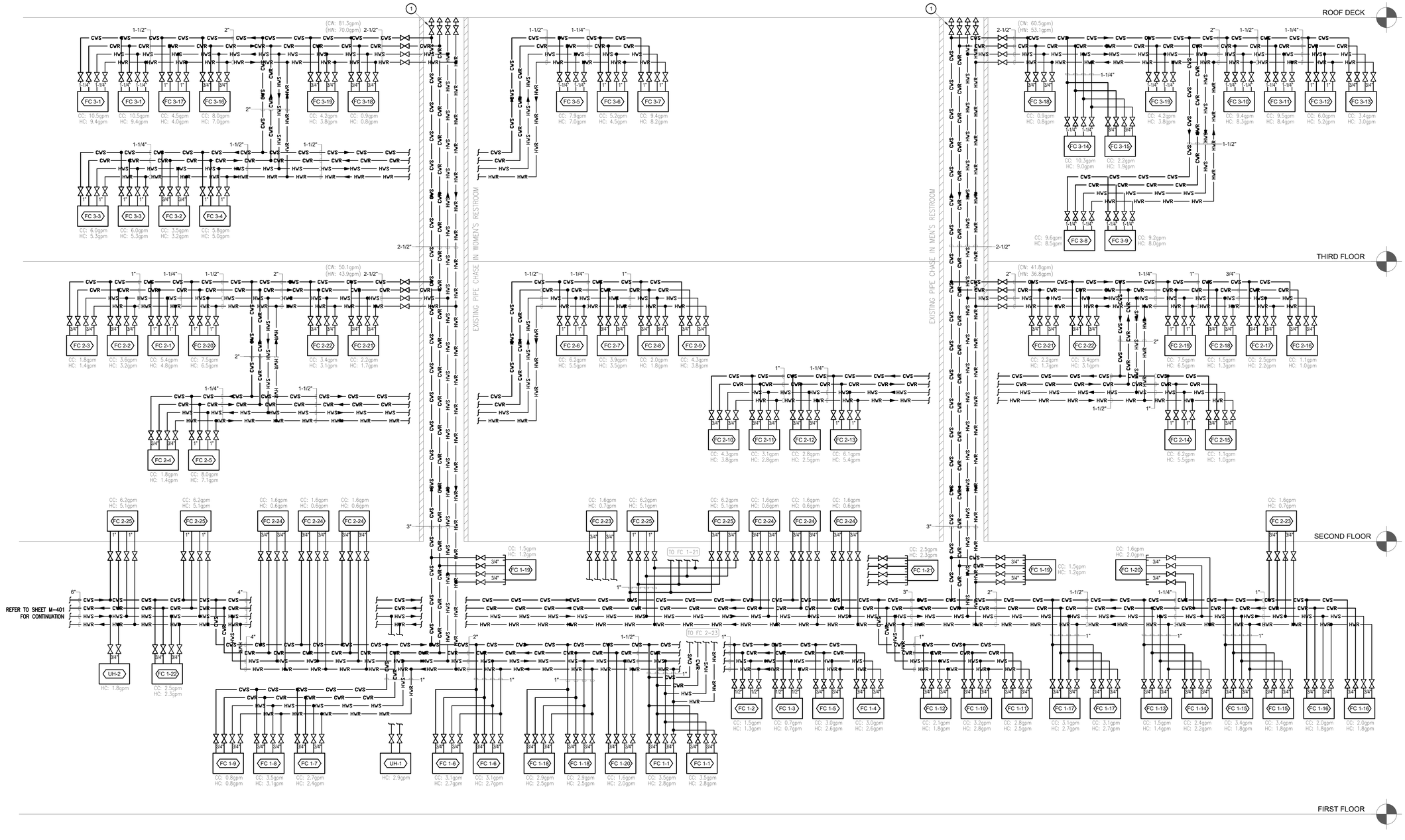
SHEET TITLE
MECHANICAL ROOM & CHILLER YARD ENLARGED PLANS

SHEET
M-401

KEYED NOTES

1. PROVIDE AIR VENT AT EVERY HIGH POINT IN CHILLED AND HEATING PIPING SYSTEM. INSTALL PER DETAIL ON DETAIL SHEET M-501.



A1 CHILLED & HEATING WATER SYSTEM PIPING SCHEMATIC
NTS

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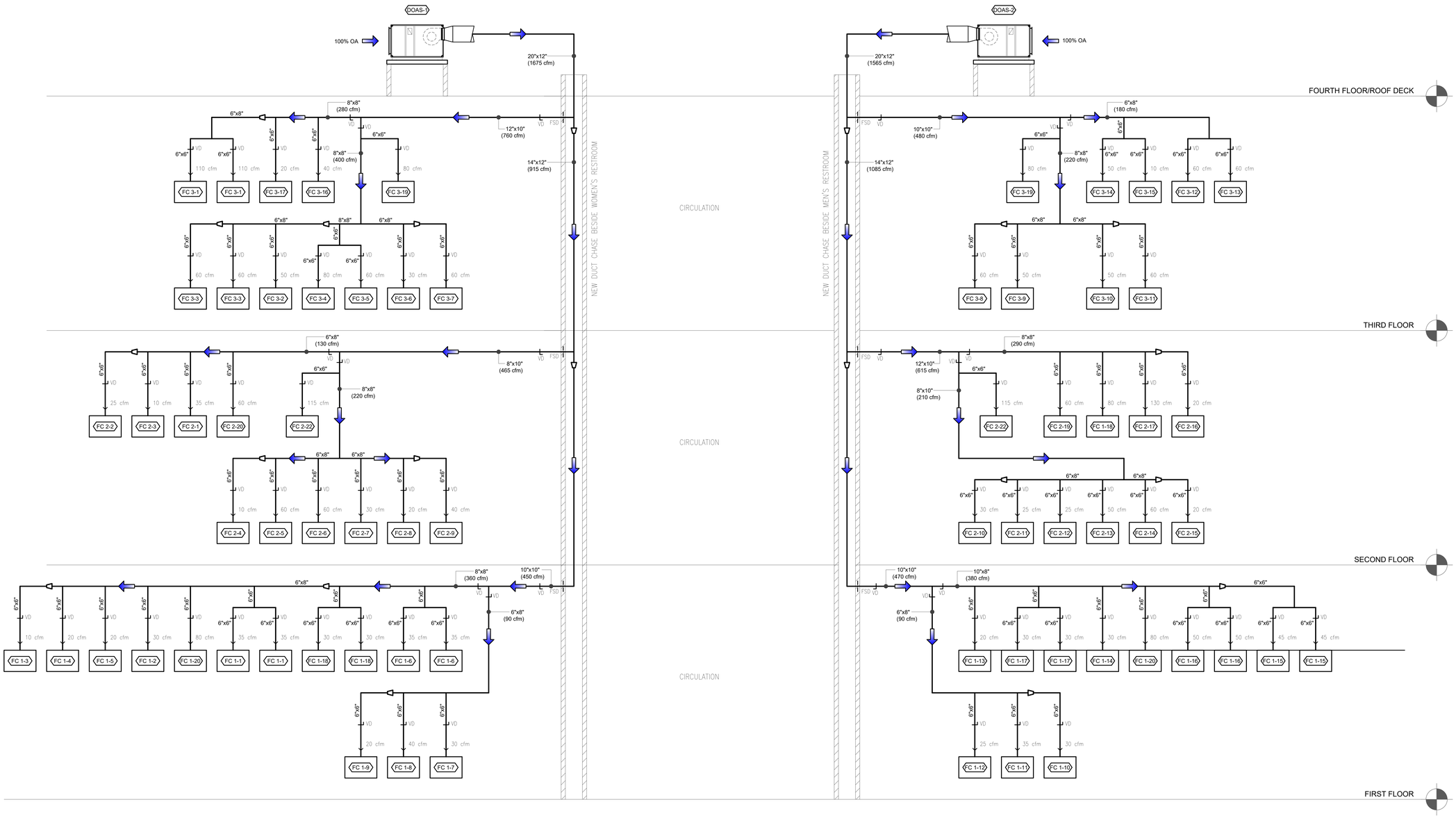
SHEET TITLE
CHILLED & HEATING WATER SYSTEM PIPING SCHEMATIC

SHEET
M-402



A1 OUTSIDE AIR SYSTEM SCHEMATIC
NTS

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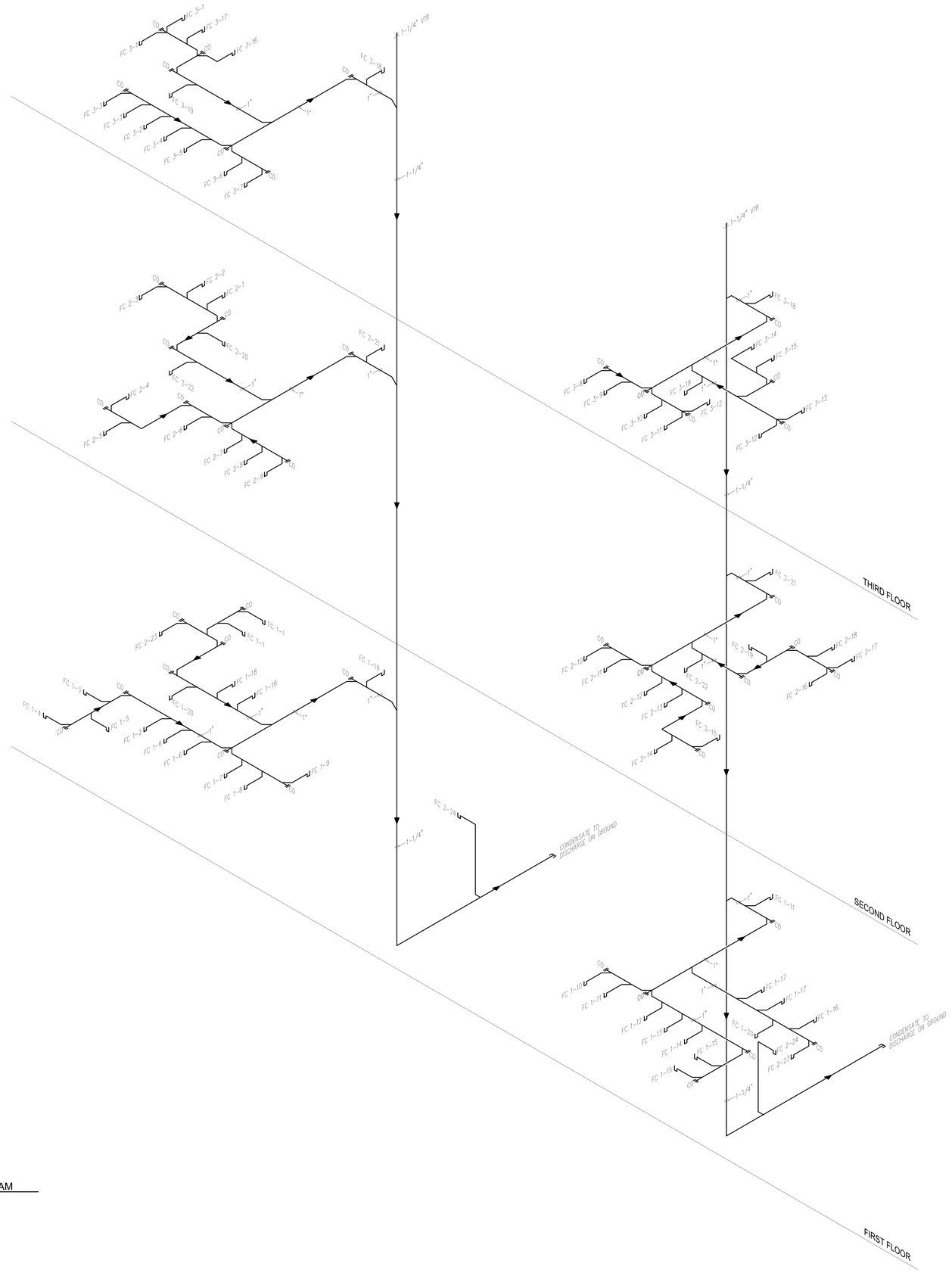
SHEET TITLE
OUTSIDE AIR SYSTEM SCHEMATIC

SHEET
M-403



A1 CONDENSATE DRAIN PIPING ISOMETRIC DIAGRAM
NTS

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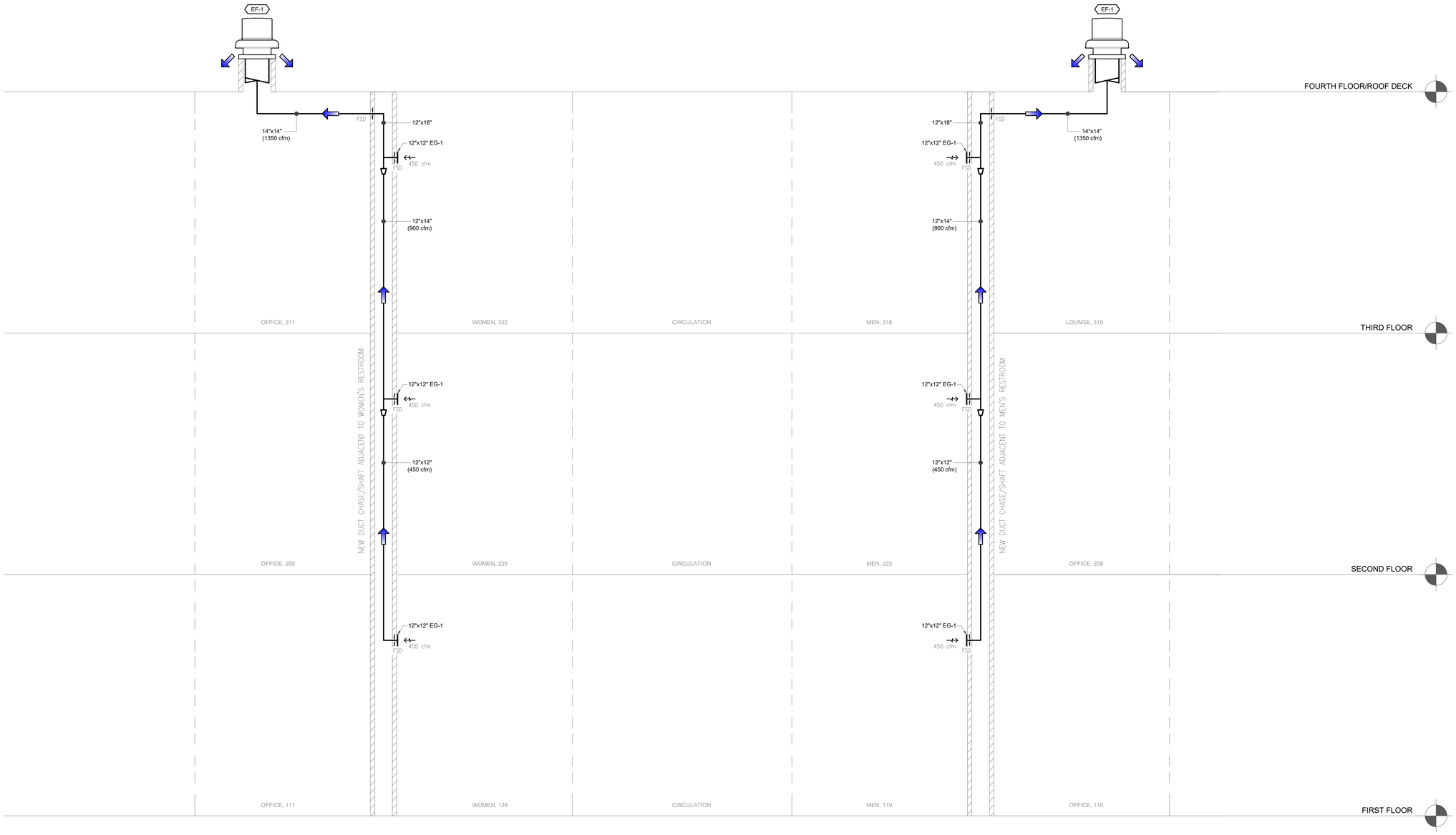
SHEET TITLE
CONDENSATE DRAIN PIPING ISOMETRIC DIAGRAM

SHEET
M-404



A1 RESTROOM EXHAUST AIR SYSTEM SCHEMATIC
NTS

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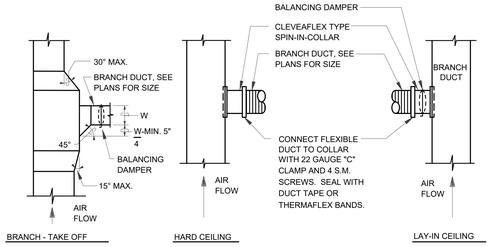
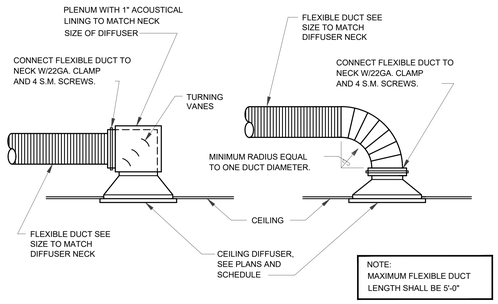
SHEET TITLE

RESTROOM EXHAUST AIR SYSTEM SCHEMATIC

SHEET

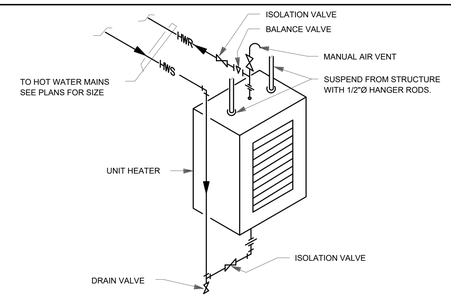
M-405





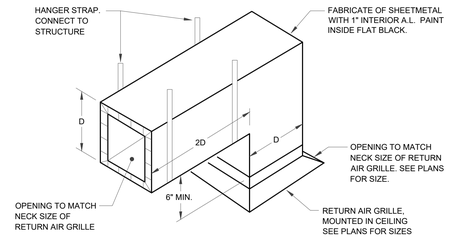
DIFFUSER CONNECTION DETAIL

SCALE: NONE



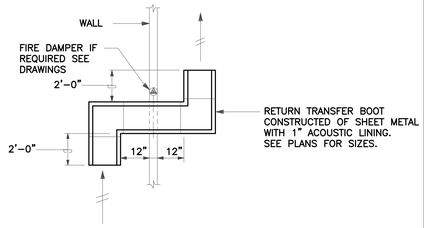
HOT WATER UNIT HEATER

SCALE: NONE



RETURN GRILLE SOUND ELBOW

SCALE: NONE



RETURN TRANSFER BOOT DETAIL

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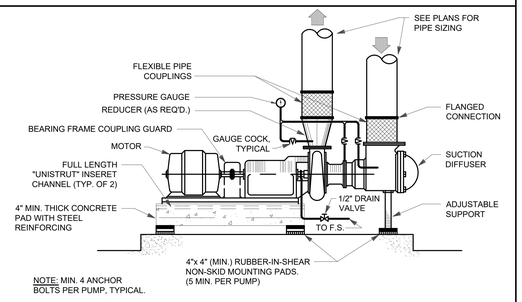

PUMP AND BASE DETAIL

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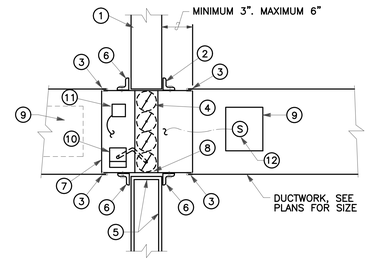


KEYED NOTES

1 FIRE RATED WALL, CMU OR CONCRETE.

2 2" X 2" X 1/8" RETAINING ANGLE ON TOP, BOTH SIDES OF WALL, SECURE TO SLEEVE WITH 1/2" WELDS OR 1/4" BOLTS AND NUTS 8" ON CENTER, STARTING 2" FROM END.

3 BREAK-A-WAY JOINT.

4 COMBINATION SMOKE/FIRE DAMPER, SEE SPECIFICATIONS FOR REQUIREMENTS.

5 FIRE RATED WALL, WOOD OR METAL STUD, PROVIDE FIRE RATED MATERIAL AROUND INSIDE OF ENTIRE OPENING.

6 2" X 2" X 1/8" RETAINING ANGLE, ON BOTTOM AND TWO SIDES, BOTH SIDES OF WALL. SECURED TO SLEEVE WITH 1/2" WELDS OR 1/4" BOLTS AND NUTS 8" ON CENTER, STARTING 2" FROM END, ANGLE SHALL LAP OPENING 1" ALL AROUND.

7 MINIMUM 16 GAUGE SLEEVE, IF DUCT EXCEEDS 24" HIGH AND 36" WIDE MINIMUM 14 GAUGE SLEEVE SHALL BE USED.

8 EXPANSION CLEARANCE AROUND SLEEVE, MINIMUM 1/8" PER FOOT WIDTH AND HEIGHT, MAXIMUM 1/2" LARGER THAN 1/8" MINIMUM.

9 SEE SPECIFICATIONS FOR ACCESS DOOR REQUIREMENTS

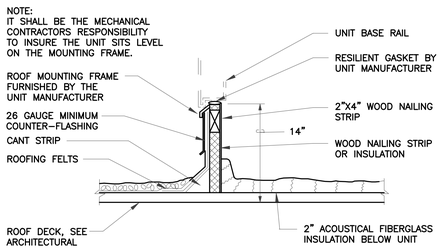
10 ELECTRIC DAMPER OPERATOR, SEE SPECIFICATIONS FOR REQUIREMENTS.

11 FIRE STAT.

12 INTEGRAL DUCT SMOKE DETECTOR (WITHIN 5'-0" OF SMOKE/FIRE DAMPER)

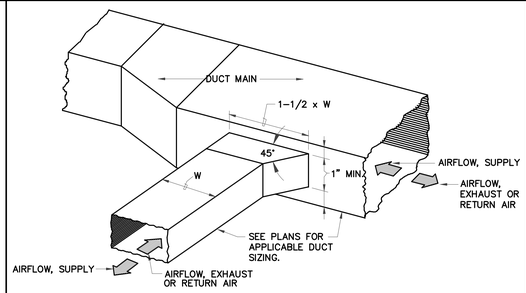
COMBINATION FIRE/SMOKE DAMPER DETAIL

SCALE: NONE



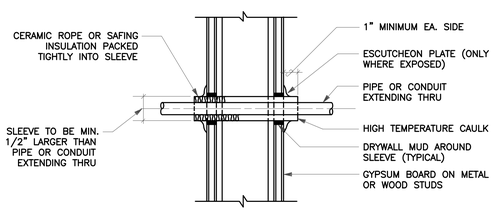
ROOF MOUNTING DETAIL

SCALE: NONE



BRANCH DUCT TAKE-OFF DETAIL

SCALE: NONE



WALL PENETRATION DETAIL

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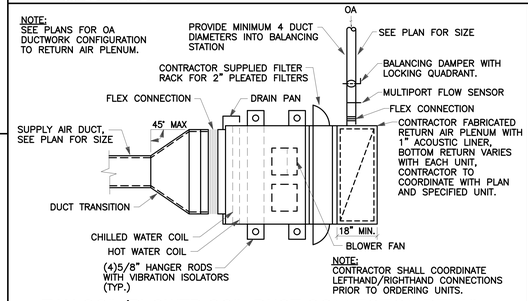
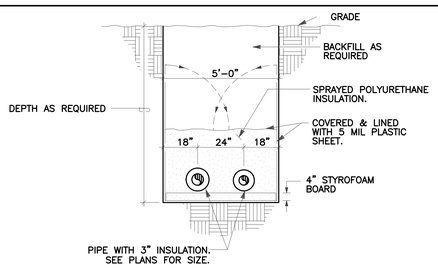


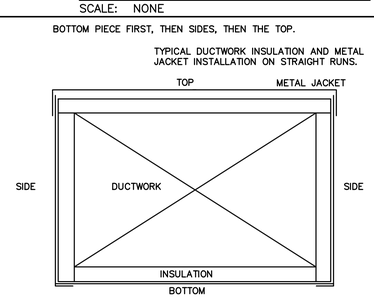
FAN COIL/BLOWER COIL DUCT CONNECTION DETAIL

SCALE: NONE



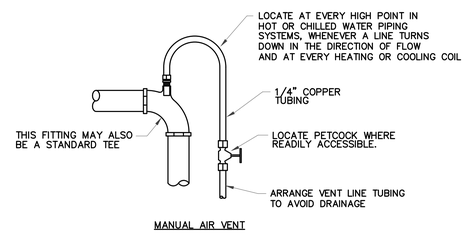
PIPE IN TRENCH DETAIL

SCALE: NONE



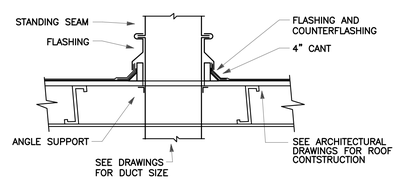
EXTERIOR DUCTWORK METAL

SCALE: NONE (A.P.S. STANDARD DETAIL)



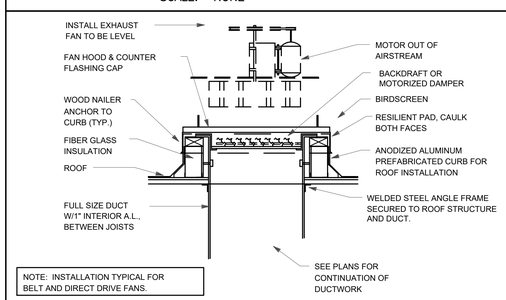
AIR VENT DETAIL

SCALE: NONE



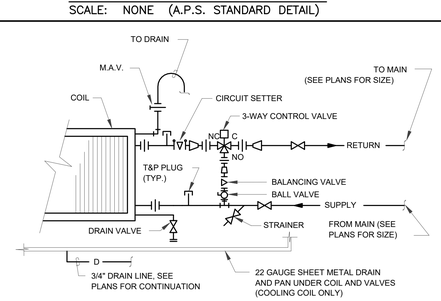
DUCT THROUGH ROOF DETAIL

SCALE: NONE



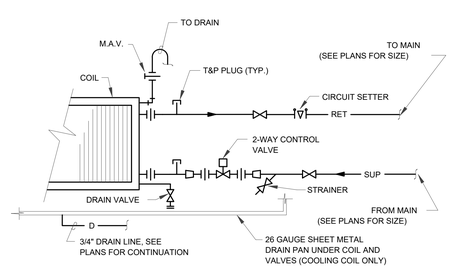
EXHAUST FAN DETAIL

SCALE: NONE



THREE WAY COIL PIPING DIAGRAM

SCALE: NONE



TWO WAY COIL PIPING DIAGRAM

SCALE: NONE

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PROJECT

AESC HVAC UPGRADES

OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS

CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION
--		--

Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JT
Checked By	WAY

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SHEET TITLE

MECHANICAL DETAILS

SHEET

M-501

SYMBOL LEGEND

ABBR.	SYMBOL	DESCRIPTION
		KEYED NOTES
		EQUIPMENT DESIGNATION
(E)		EXISTING
(TYP)		TYPICAL
CFM		CUBIC FEET PER MINUTE
		POINT OF CONNECTION
	T	THERMOSTAT
DIA	Ø	DIAMETER
FSD		FIRE / SMOKE DAMPER
VD		MANUAL VOLUME DAMPER
	20/12	RIGID DUCTWORK - FIRST FIGURE IS SIDE SHOWN
		FLEXIBLE DUCTWORK
		DUCT TRANSITION
		SUPPLY DUCT UP
		RETURN OR EXHAUST DUCT UP
		SUPPLY DUCT DOWN
		RETURN OR EXHAUST DUCT DOWN
		CEILING SUPPLY AIR OUTLET
		CEILING SUPPLY AIR OUTLET
		CEILING RETURN OR EXHAUST AIR OUTLET
		SIDEWALL SUPPLY AIR OUTLET
		SIDEWALL RETURN OR EXHAUST AIR OUTLET
MU	MU	MAKE-UP WATER PIPING
EWT, LWT		ENTERING, LEAVING WATER TEMPERATURE
TDH		TOTAL DYNAMIC HEAD
CV		FLOW COEFFICIENT
CWS	CWS	CHILLED WATER SUPPLY
CWR	CWR	CHILLED WATER RETURN
HWS	HWS	HEATING WATER SUPPLY - LOW TEMPERATURE
HWR	HWR	HEATING WATER RETURN - LOW TEMPERATURE

DEMOLITION GENERAL NOTES

A. CONTRACTOR SHALL VERIFY LOCATION OF ALL PIPING, EQUIPMENT, ETC. SERVED BY EXISTING EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL REMOVE SUCH ITEMS ONLY IF THEY DO NOT SERVE FIXTURES TO REMAIN. ALL PIPING SHALL BE CAPPED IN A CONCEALED LOCATION.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND FINISHING SURFACES (WALLS, FLOORS, CEILINGS) DAMAGED DURING REMOVAL OF EQUIPMENT AND PIPING UNLESS REMOVAL OR RENOVATION OF SURFACE IS COVERED UNDER ANOTHER SECTION OF THIS CONTRACT.

C. CONTRACTOR SHALL DISPOSE OF OR RETURN ALL PLUMBING FIXTURES, PIPING, ETC. TO OWNER IN ACCORDANCE WITH DIRECTION OF THE ARCHITECT.

D. REMOVE ANY COLD WATER, HOT WATER, GAS, WASTES OR VENT PIPING (NOT SHOWN) UNCOVERED IN EXISTING PARTITIONS TO BE REMOVED; REMOVE BACK TO ACTIVE LINE AND CAP.

E. PLUG OR SEAL ALL SOIL, WASTE AND VENT OPENINGS AS DIRECTED FOR A SMOOTH FINISH FLOOR.

F. PIPE ROUTING IS APPROXIMATE ONLY; EACH BIDDER SHALL SATISFY HIMSELF AS TO EXISTING BUILDING CONDITIONS BEFORE SUBMITTING HIS BID. NO ALLOWANCE SHALL BE MADE AFTER CONTRACT IS AWARDED TO ALLOW FOR LACK OF PRE-BID INSPECTION OF BUILDING BY SUCCESSFUL BIDDER.

G. COORDINATE WORK WITH OTHER TRADES TO MINIMIZE CONFLICTS AND "DOWN TIME".

HVAC GENERAL NOTES

A. ALL DUCTS SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED.

B. ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER.

C. PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.

D. ALL DUCTWORK INSTALLED IN AREAS WITH CEILING TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE.

E. ALL DUCT PENETRATIONS THROUGH THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT CONSTRUCTION.

F. COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRUCTURAL DRAWINGS. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS.

G. INSTALL "SPIN-IN" TYPE FITTINGS WITH BALANCING DAMPERS FOR ROUND BRANCH RUN-OUTS TO DIFFUSER. BRANCH DUCTS TO DIFFUSERS SHALL BE OF EQUAL SIZE TO NECK DIAMETER. ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS.

H. FLEXIBLE ROUND DUCT BRANCHES TO DIFFUSERS SHALL BE PRE-INSULATED AND SHALL NOT EXCEED 5 FT. IN TOTAL LENGTH.

I. THE SPACE ABOVE THE CEILING IS SERVING AS A RETURN AIR PLENUM. ALL AIR BEING SUPPLIED SHALL BE PROVIDED WITH RETURN AIR PATH BACK TO ITS ORIGIN. PROVIDE IN WALLS EXTENDING THROUGH CEILING AND UP TO STRUCTURE A RETURN AIR OPENINGS EQUAL TO 1 FT^2 PER 500 CFM OF AIR BEING RETURNED, UNLESS OTHERWISE NOTED. PROVIDE WITH FIRE DAMPER IN FIRE RATED WALL.

J. COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT, SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.

K. COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES, AND REGISTERS TO BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILING PLAN AND LIGHTING PLAN.

L. ALL 90° SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE THICK TURNING VANES.

M. ALL THERMOSTATS SHALL BE MOUNTED UP 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. PROVIDE APPROVED, STEEL VENTILATED LOCKING COVERS WITH GUARDS AT ALL THERMOSTATS, UNLESS OTHERWISE DIRECTED.

N. ALL FIRE AND/OR SMOKE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED

O. PROVIDE ACCESS DOORS IN FIXED CEILINGS, CHASES, AND DUCTWORK TO ALL FIRE DAMPERS, BALANCING DAMPERS, OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.

P. BEFORE CONTRACTOR ORDERS ANY GRILLES, REGISTERS, OR DIFFUSERS, HE SHALL VERIFY THE CEILING CONSTRUCTION IN ALL AREAS OF THE PROJECT. IF GRILLES, REGISTERS, OR DIFFUSERS SPECIFIED ARE NOT COMPATIBLE WITH THE TYPE OF CEILING CONSTRUCTION, THE CONTRACTOR SHALL ORDER PROPER TYPE OF GRILLE, REGISTER, OR DIFFUSER TO BE COMPATIBLE WITH THE CEILING.

VENTILATION SCHEDULE 2

LEVEL	SPACE NAME	SPACE FLOOR AREA (ft^2)	OCCUPANT DENSITY (ft^2 per person)	OCCUPANCY	PEOPLE OUTDOOR AIR RATE (cfm/person)	AREA OUTDOOR AIR RATE (cfm/ft^2)	MINIMUM OUTDOOR AIRFLOW (cfm)
		(a)	(b)	(c) = a / b	(d)	(e)	(f) = c*d + a*e
SECOND FLOOR	AUDITORIUM (PERF. AREA)	2783	-	20	10	0.06	370
	AUDITORIUM (SEATING AREA)	4605	-	461	5	0.06	2580
	AUDITORIUM (CORRIDOR)	1222	-	-	-	0.06	70
THIRD FLOOR	AUDITORIUM (SEATING AREA)	1617	-	162	5	0.06	910

VENTILATION SCHEDULE 1

LEVEL	SPACE NAME	SPACE FLOOR AREA (ft^2)	OCCUPANT DENSITY (ft^2 per person)	OCCUPANCY	PEOPLE OUTDOOR AIR RATE (cfm/person)	AREA OUTDOOR AIR RATE (cfm/ft^2)	MINIMUM OUTDOOR AIRFLOW (cfm)
		(a)	(b)	(c) = a / b	(d)	(e)	(f) = c*d + a*e
FIRST FLOOR	STORAGE	1240	-	-	-	0.06	70
	OFFICE	305	200	2	5	0.06	30
	OFFICE	165	200	1	5	0.06	10
	OFFICE	215	200	2	5	0.06	20
	OFFICE	273	200	2	5	0.06	30
	OFFICE	857	200	5	5	0.06	80
	OFFICE	361	200	2	5	0.06	30
	OFFICE	473	200	3	5	0.06	40
	JANITOR	346	-	-	-	0.06	20
	OFFICE	391	200	2	5	0.06	30
	OFFICE	671	200	4	5	0.06	60
	OFFICE	534	200	3	5	0.06	50
	OFFICE	1107	200	6	5	0.06	100
	OFFICE	1122	200	6	5	0.06	100
	OFFICE	663	200	4	5	0.06	60
	RESTROOM	205	-	-	-	-	-
	RESTROOM	209	-	-	-	-	-
	OFFICE	674	200	4	5	0.06	60
	CORRIDOR	2693	-	-	-	0.06	160
SECOND FLOOR	OFFICE	464	200	3	5	0.06	40
	OFFICE	694	200	4	5	0.06	60
	OFFICE	687	200	4	5	0.06	60
	OFFICE	676	200	4	5	0.06	60
	JANITOR	116	-	-	-	0.06	10
	JANITOR	87	-	-	-	0.06	10
	OFFICE	710	200	4	5	0.06	60
	OFFICE	655	200	4	5	0.06	60
	OFFICE	583	200	3	5	0.06	50
	OFFICE	423	200	3	5	0.06	40
	OFFICE	379	200	2	5	0.06	30
	OFFICE	587	200	3	5	0.06	50
	OFFICE	617	200	4	5	0.06	60
	OFFICE	667	200	4	5	0.06	60
	OFFICE	221	200	2	5	0.06	20
	OFFICE	228	200	2	5	0.06	20
	CONF. ROOM	665	20	34	5	0.06	210
	OFFICE	663	200	4	5	0.06	60
	RESTROOM	205	-	-	-	-	-
	RESTROOM	204	-	-	-	-	-
	CORRIDOR	3766	-	-	-	0.06	230
THIRD FLOOR	LIBRARY	310	100	4	5	0.12	60
	LIBRARY	701	100	8	5	0.12	120
	CONF. ROOM	244	20	13	5	0.06	80
	OFFICE	647	200	4	5	0.06	60
	OFFICE	327	200	2	5	0.06	30
	OFFICE	707	200	4	5	0.06	60
	OFFICE	698	200	4	5	0.06	60
	OFFICE	603	200	4	5	0.06	60
	OFFICE	617	200	4	5	0.06	60
	OFFICE	681	200	4	5	0.06	60
	OFFICE	726	200	4	5	0.06	60
	OFFICE	659	200	4	5	0.06	60
	OFFICE	657	200	4	5	0.06	60
	RESTROOM	205	-	-	-	-	-
	RESTROOM	204	-	-	-	-	-
	OFFICE	657	200	4	5	0.06	60
	LIBRARY	1318	100	14	5	0.12	230
	CORRIDOR	2666	-	-	-	0.06	160
FOURTH FLOOR	OFFICE	1575	200	8	5	0.06	130
	OFFICE	676	200	4	5	0.06	60

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	DESCRIPTION	MOUNTING	MANUFACTURER MODEL #	MATERIAL	FINISH	NECK SIZE	REMARKS
SD-1	CEILING DIFFUSER	LAY-IN	TITUS-TMS	STEEL	WHITE BAKED ENAMEL	10"	24"x24" LOUVERED FACE, 4-WAY THROW
SD-2	CEILING DIFFUSER	LAY-IN	TITUS-TMS	STEEL	WHITE BAKED ENAMEL	8"	24"x24" LOUVERED FACE, 4-WAY THROW
SD-3	CEILING DIFFUSER	CEILING SURFACE	TITUS-TDC	STEEL	REFER TO ARCH. DRAWINGS	21" x 21"	SQUARE NECK, LOUVERED FACE, 3-WAY THROW
SD-4	CEILING DIFFUSER	LAY-IN	TITUS-TMS	STEEL	WHITE BAKED ENAMEL	12"	24"x24" LOUVERED FACE, 4-WAY THROW
LD-1	LINEAR FLOWBAR DIFFUSER	CEILING SURFACE	TITUS FL-25-JT	STEEL	REFER TO ARCH. DRAWINGS	60" x 3" (2-SLOTS)	COMPLETE WITH MANUFACTURER SUPPLIED PENUM BOX WITH 12" DIAMETER INLET DUCT SIZE
LD-2	LINEAR FLOWBAR DIFFUSER	CEILING SURFACE	TITUS FL-25-JT	STEEL	REFER TO ARCH. DRAWINGS	24" x 3" (2-SLOTS)	COMPLETE WITH MANUFACTURER SUPPLIED PENUM BOX WITH 12" DIAMETER INLET DUCT SIZE
EG-1	EXHAUST GRILLE	SIDEWALL SURFACE	TITUS 23R	STEEL	WHITE BAKED ENAMEL	AS INDICATED	SINGLE DEFLECTION, 45° ANGLE, 3/4" BLADE SPACING
SR-2	SUPPLY REGISTER	SIDEWALL SURFACE	TITUS 272RS	STEEL	WHITE BAKED ENAMEL	14" x 14"	DOUBLE DEFLECTION, BLADES PARALLEL TO SHORT DIMENSION
RG-1	RETURN GRILLE	LAY-IN	TITUS 50R	STEEL	WHITE BAKED ENAMEL	22" x 22"	EGGCRATE TYPE, 1/2" SQUARE ALUMINUM CORE, FRAME DESIGNED FOR 24"x24" TEE CEILING GRIDS.

NOTES:
1. PROVIDE INTEGRAL BALANCING DAMPERS ON EXHAUST APPLICATIONS ONLY. DAMPERS SHALL BE ADJUSTABLE THROUGH FACE OF AIR DEVICE AND SHALL BE OPPOSED BLADE TYPE WHERE AVAILABLE.
2. PROVIDE TAPERED TRANSITIONS FOR ALL SUPPLY DIFFUSERS WITH NECK SIZES DIFFERENT THAN SUPPLY DUCT RUN-OUT SIZES.
3. PATCH AND SEAL ALL WALL PENETRATIONS.
4. PROVIDE TYPE AIR DEVICES WITH ADJUSTABLE MINIMUM FLOW STOPS AND SET MINIMUM AIRFLOWS AS INDICATED ON PLANS.

APPROVED EQUIVALENT MANUFACTURER: PRICE, KRUEGER

HOT WATER UNIT HEATER SCHEDULE

MARK	SERVICE/ MOUNTING	FAN DATA CFM	FAN DATA HP	FAN DATA ELECTRICAL DATA	HEATING DATA TOTAL BTUH	HEATING DATA WATER EWT F	HEATING DATA WATER LWT F	HEATING DATA GPM	HEATING DATA WPD FEET	HWS/R PIPE SIZE	MANUFACTURER MODEL #
UH-1	STORAGE 126	730	1/12	460 / 3 / 60	28,800	160	140	2.9	0.4	3/4"	MODINE HSB 47
UH-2	STORAGE 129	630	1/25	460 / 3 / 60	18,000	160	140	1.8	0.2	3/4"	MODINE HSB 33

NOTES:
1. UNIT TO BE PROVIDED WITH STEP DOWN TRANSFORMER.
2. SEE CONTROL DIAGRAM ON SHEET M-702.

EXHAUST FAN SCHEDULE

MARK	FAN TYPE	SERVICE / MOUNTING	CFM	EXT. SP IN	FAN RPM	MOTOR HP	ELECTRICAL VOLTS	ELECTRICAL PHASE	SONES	DRIVE	MANUFACTURER MODEL #
EF-1	ROOF MOUNTED CENTRIFUGAL DOWNBLAST	RESTROOMS	1350	0.5	1725	0.5	480	3	14.6	DIRECT	GREENHECK G-120-A
EF-2	CENTRIFUGAL WALL MOUNTED	STORAGE, 126	1360	0.15	1140	0.25	480	3	10.3	DIRECT	GREENHECK G-140-B
EF-3	CEILING MOUNTED CABINET FAN	DRESSING ROOM, 128	380	0.25	1070	171W	277	1	2	DIRECT	GREENHECK CSP-A510
EF-4	CEILING MOUNTED CABINET FAN	CUSTODIAN ROOM, 201.5	130	0.15	1050	126W	277	1	2	DIRECT	GREENHECK CSP-B150

NOTES:
1. FANS ARE SELECTED AT 4000 FT ABOVE SEA LEVEL.
2. PROVIDE ALL FANS WITH VIBRATION ISOLATION.
3. PROVIDE EACH DIRECT DRIVE CEILING FAN WITH SOLID-STATE SPEED CONTROLLER MOUNTED ON FAN HOUSING.
4. PROVIDE EACH ROOF FAN WITH A BIRDSCREEN AND A 12" HIGH INSULATED ROOF CURB (SLOPED TO MATCH PITCH OF ROOF TO ALLOW FAN TO SIT LEVEL).
5. DIVISION 26 SHALL INTERLOCK EXHAUST FANS TIMECLOCK FUNCTION BY DIV. 25.
6. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
7. REFER TO MANUFACTURER DATA FOR EQUIPMENT WEIGHTS.

APPROVED EQUIVALENT MANUFACTURER: COOK, TWIN CITY

AIR SEPARATOR SCHEDULE

MARK	MANUFACTURER MODEL #	SERVICE	TYPE	MAX GPM	PIPE CONN	MAX PSIG	REMARKS
AS-1	AMTROL 6-AS	CHILLED WATER	TANGENTIAL	500	6	150	WITH STRAINER, FLANGED CONNECTIONS, BELL & GOSSETT 107A VENT, ASME CERTIFIED.
AS-2	AMTROL 6-AS	HEATING WATER	TANGENTIAL	500	6	150	WITH STRAINER, FLANGED CONNECTIONS, BELL & GOSSETT 107A VENT, ASME CERTIFIED.

EXPANSION TANK SCHEDULE

MARK	MANUFACTURER MODEL #	SERVICE	INSTALL MOUNTING	GAL VOL TANK	GAL VOL ACCEPT.	DIMENSIONS (IN) DIA	DIMENSIONS (IN) LENGTH	TYPE	OPER. PRESS. (PSI) MIN	OPER. PRESS. (PSI) MAX	REMARKS
ET-1	AMTROL AX-40-DD	CHILLED WATER	VERTICAL	23	11.3	15	33	DIAPHRAGM	40	150	PRE-CHARGED, ASME CERTIFIED. PROVIDE WITH REQUIRED SUPPORTS.
ET-2	AMTROL 800-L	HEATING WATER	VERTICAL	211	211	30	82	BLADDER	40	150	PRE-CHARGED, ASME CERTIFIED. PROVIDE WITH REQUIRED SUPPORTS.

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1/19/2023

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE
GENERAL NOTES, LEGEND & SCHEDULE

SHEET
M-601

4-PIPE FAN COIL UNIT SCHEDULE

MARK	MANUFACTURER MODEL #	TYPE	SUPPLY FAN ACTUAL CFM	SUPPLY FAN EXT SP IN	SUPPLY FAN DRIVE	SUPPLY FAN ECM MOTOR HP	HEATING WATER COIL TOTAL MBH	HEATING WATER COIL EAT F	HEATING WATER COIL LAT F	HEATING WATER COIL GPM	HEATING WATER COIL EWT F	HEATING WATER COIL LWT F	HEATING WATER COIL WPD FT	HEATING WATER COIL CONN. SIZE	HEATING WATER COIL ROWS	CHILLED WATER COIL TOTAL MBH	CHILLED WATER COIL EAT F	CHILLED WATER COIL LAT F	CHILLED WATER COIL GPM	CHILLED WATER COIL EWT F	CHILLED WATER COIL LWT F	CHILLED WATER COIL WPD FT	CHILLED WATER COIL CONN. SIZE	CHILLED WATER COIL ROWS	COIL CONN. SIDE	OA FLOW CFM	ELECTRICAL VOLT/ PHASE HERTZ	ELECTRICAL FLA	APPROX WEIGHT LBS
FC 1-1	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	790	0.3	DIRECT	1/6	27.75	69.1	105	2.8	160	140	6.2	1/2	1	17.5	74.8	55	3.5	45	55	17	3/4	4	RH	35	277/1/60	1.3	193.6
FC 1-2	CARRIER 42CG04	CEILING MTD. CABINET, FREE BLOW	380	0.3	DIRECT	1/6	13.4	69.1	105	1.3	160	140	6.4	1/2	1	7.3	74.8	55	1.5	45	55	30	3/4	4	RH	30	277/1/60	1.3	138.6
FC 1-3	CARRIER 42CG02	CEILING MTD. CABINET, FREE BLOW	180	0.3	DIRECT	1/7	6.5	69.1	105	0.7	160	140	1.6	1/2	1	3.6	74.8	55	0.7	45	55	10	3/4	4	RH	10	277/1/60	1.2	107.8
FC 1-4	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	740	0.3	DIRECT	1/6	25.9	69.1	105	2.6	160	140	6.2	1/2	1	14.6	74.8	55	2.9	45	55	17	3/4	4	LH	20	277/1/60	1.3	193.6
FC 1-5	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	760	0.3	DIRECT	1/6	26.3	69.1	105	2.6	160	140	6.2	1/2	1	14.9	74.8	55	3.0	45	55	17	3/4	4	RH	20	277/1/60	1.3	193.6
FC 1-6	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	775	0.3	DIRECT	1/6	27.2	69.1	105	2.7	160	140	6.2	1/2	1	15.3	74.8	55	3.1	45	55	17	3/4	4	LH & RH	35	277/1/60	1.3	193.6
FC 1-7	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	670	0.3	DIRECT	1/6	23.7	69.1	105	2.4	160	140	6.2	1/2	1	13.3	74.8	55	2.7	45	55	17	3/4	4	LH	30	277/1/60	1.3	193.6
FC 1-8	CARRIER 42CG10	CEILING MTD. CABINET, FREE BLOW	900	0.3	DIRECT	2 x 1/6	31.4	69.1	105	3.1	160	140	10.3	1/2	1	17.7	74.8	55	3.5	45	55	20	3/4	4	RH	40	277/1/60	2 x 1.3	236.5
FC 1-9	CARRIER 42CG02	CEILING MTD. CABINET, FREE BLOW	180	0.3	DIRECT	1/7	7.6	69.1	105	0.8	160	140	1.6	1/2	1	4.2	74.8	55	0.8	45	55	10	3/4	4	LH	20	277/1/60	1.2	107.8
FC 1-10	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	800	0.3	DIRECT	1/6	28.2	69.1	105	2.8	160	140	6.2	1/2	1	15.9	74.8	55	3.2	45	55	17	3/4	4	LH	30	277/1/60	1.3	193.6
FC 1-11	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	720	0.3	DIRECT	1/6	25.2	69.1	105	2.5	160	140	6.2	1/2	1	14.2	74.8	55	2.8	45	55	17	3/4	4	RH	35	277/1/60	1.3	193.6
FC 1-12	CARRIER 42CG06	CEILING MTD. CABINET, FREE BLOW	520	0.3	DIRECT	1/6	18.3	69.1	105	1.8	160	140	5.7	1/2	1	10.3	74.8	55	2.1	45	55	11	3/4	4	LH	25	277/1/60	1.3	184.8
FC 1-13	CARRIER 42CG04	CEILING MTD. CABINET, FREE BLOW	390	0.3	DIRECT	1/6	13.7	69.1	105	1.4	160	140	6.4	1/2	1	7.7	74.8	55	1.5	45	55	30	3/4	4	RH	20	277/1/60	1.3	138.6
FC 1-14	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	620	0.3	DIRECT	1/6	21.7	69.1	105	2.2	160	140	6.2	1/2	1	12.2	74.8	55	2.4	45	55	17	3/4	4	LH	30	277/1/60	1.3	193.6
FC 1-15	CARRIER 42CG10	CEILING MTD. CABINET, FREE BLOW	855	0.3	DIRECT	2 x 1/6	18.2	69.1	105	1.8	160	140	10.3	1/2	1	17.0	74.8	55	3.4	45	55	20	3/4	4	RH	45	277/1/60	2 x 1.3	236.5
FC 1-16	CARRIER 42CG06	CEILING MTD. CABINET, FREE BLOW	495	0.3	DIRECT	1/6	17.7	69.1	105	1.8	160	140	5.7	1/2	1	10.2	74.8	55	2.0	45	55	11	3/4	4	LH	50	277/1/60	1.3	184.8
FC 1-17	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	770	0.3	DIRECT	1/6	26.85	69.1	105	2.7	160	140	6.2	1/2	1	15.5	74.8	55	3.1	45	55	17	3/4	4	LH & RH	30	277/1/60	1.3	193.6
FC 1-18	CARRIER 42CG08	CEILING MTD. CABINET, FREE BLOW	720	0.3	DIRECT	1/6	25.15	69.1	105	2.5	160	140	6.2	1/2	1	14.5	74.8	55	2.9	45	55	17	3/4	4	LH & RH	30	277/1/60	1.3	193.6
FC 1-19	CARRIER 42CG04	CEILING MTD. CABINET, FREE BLOW	340	0.3	DIRECT	1/6	11.95	69.1	105	1.2	160	140	6.4	1/2	1	7.4	74.8	55	1.5	45	55	30	3/4	4	LH & RH	0	277/1/60	1.3	138.6
FC 1-20	CARRIER 42CG06	CEILING MTD. CABINET, FREE BLOW	450	0.3	DIRECT	1/6	19.9	69.1	105	2.0	160	140	5.7	1/2	1	7.9	74.8	55	1.6	45	55	11	3/4	4	LH & RH	40	277/1/60	1.3	184.8
FC 1-21	CARRIER 42CG06	CEILING MTD. CABINET, FREE BLOW	570	0.3	DIRECT	1/6	23.1	69.1	105	2.3	160	140	5.7	1/2	1	12.4	74.8	55	2.5	45	55	11	3/4	4	RH	0	277/1/60	1.3	184.8
FC 1-22	CARRIER 42CG06	CEILING MTD. CABINET, FREE BLOW	580	0.3	DIRECT	1/6	22.9	69.1	105	2.3	160	140	5.7	1/2	1	12.3	74.8	55	2.5	45	55	11	3/4	4	LH	0	277/1/60	1.3	184.8
FC 2-1	CARRIER 42DC14	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,380	0.5	DIRECT	2 x 1/2	47.94	69.3	105	4.8	160	140	1.7	1/2	1	27.1	74.6	55	5.4	45	55	20	1	4	RH	35	277/1/60	2 x 3.4	191.4
FC 2-2	CARRIER 42DC10	CEILING CONCEALED, DUCTED, RETURN PLENUM	920	0.5	DIRECT	1/2	31.96	69.3	105	3.2	160	140	0.8	1/2	1	18.0	74.6	55	3.6	45	55	5	3/4	4	RH	25	277/1/60	3.4	165.0
FC 2-3	CARRIER 42DC06	CEILING CONCEALED, DUCTED, RETURN PLENUM	410	0.5	DIRECT	1/2	14.2	69.3	105	1.4	160	140	1.6	1/2	1	9.2	74.6	55	1.8	45	55	2	3/4	4	RH	10	277/1/60	3.4	103.4
FC 2-4	CARRIER 42DC06	CEILING CONCEALED, DUCTED, RETURN PLENUM	410	0.5	DIRECT	1/2	14.2	69.3	105	1.4	160	140	1.6	1/2	1	9.2	74.6	55	1.8	45	55	2	3/4	4	LH	10	277/1/60	3.4	103.4
FC 2-5	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,030	0.5	DIRECT	2 x 1/2	70.9	69.3	105	7.1	160	140	4.1	1/2	1	40.1	74.6	55	8.0	45	55	11	1	4	LH	60	277/1/60	2 x 3.4	242.0
FC 2-6	CARRIER 42DC16	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,560	0.5	DIRECT	2 x 1/2	54.7	69.3	105	5.5	160	140	2.4	1/2	1	30.9	74.6	55	6.2	45	55	8	1	4	RH	60	277/1/60	2 x 3.4	195.8
FC 2-7	CARRIER 42DC10	CEILING CONCEALED, DUCTED, RETURN PLENUM	990	0.5	DIRECT	1/2	34.5	69.3	105	3.5	160	140	0.8	1/2	1	19.5	74.6	55	3.9	45	55	5	3/4	4	RH	30	277/1/60	3.4	165.0
FC 2-8	CARRIER 42DC06	CEILING CONCEALED, DUCTED, RETURN PLENUM	500	0.5	DIRECT	1/2	17.6	69.3	105	1.8	160	140	1.6	1/2	1	10.0	74.6	55	2.0	45	55	2	3/4	4	LH	20	277/1/60	3.4	103.4
FC 2-9	CARRIER 42DC12	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,090	0.5	DIRECT	2 x 1/2	38.2	69.3	105	3.8	160	140	0.9	1/2	1	21.6	74.6	55	4.3	45	55	10	3/4	4	RH	40	277/1/60	2 x 3.4	185.9
FC 2-10	CARRIER 42DC12	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,080	0.5	DIRECT	2 x 1/2	37.5	69.3	105	3.8	160	140	0.9	1/2	1	21.3	74.6	55	4.3	45	55	10	3/4	4	RH	30	277/1/60	2 x 3.4	185.9
FC 2-11	CARRIER 42DC08	CEILING CONCEALED, DUCTED, RETURN PLENUM	790	0.5	DIRECT	1/2	27.6	69.3	105	2.8	160	140	3.2	1/2	1	15.6	74.6	55	3.1	45	55	5	3/4	4	LH	25	277/1/60	3.4	117.7
FC 2-12	CARRIER 42DC08	CEILING CONCEALED, DUCTED, RETURN PLENUM	710	0.5	DIRECT	1/2	24.6	69.3	105	2.5	160	140	3.2	1/2	1	14.0	74.6	55	2.8	45	55	5	3/4	4	LH	25	277/1/60	3.4	117.7
FC 2-13	CARRIER 42DC16	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,550	0.5	DIRECT	2 x 1/2	54.1	69.3	105	5.4	160	140	2.4	1/2	1	30.6	74.6	55	6.1	45	55	8	1	4	LH	50	277/1/60	2 x 3.4	195.8
FC 2-14	CARRIER 42DC16	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,570	0.5	DIRECT	2 x 1/2	54.9	69.3	105	5.5	160	140	2.4	1/2	1	31.2	74.6	55	6.2	45	55	8	1	4	LH	60	277/1/60	2 x 3.4	195.8
FC 2-15	CARRIER 42DC06	CEILING CONCEALED, DUCTED, RETURN PLENUM	270	0.5	DIRECT	1/2	9.6	69.3	105	1.0	160	140	1.6	1/2	1	5.5	74.6	55	1.1	45	55	2	3/4	4	LH	20	277/1/60	3.4	103.4
FC 2-16	CARRIER 42DC06	CEILING CONCEALED, DUCTED, RETURN PLENUM	270	0.5	DIRECT	1/2	9.7	69.3	105	1.0	160	140	1.6	1/2	1	5.6	74.6	55	1.1	45	55	2	3/4	4	RH	20	277/1/60	3.4	103.4
FC 2-17	CARRIER 42DC06	CEILING CONCEALED, DUCTED, RETURN PLENUM	570	0.5	DIRECT	1/2	21.6	69.3	105	2.2	160	140	1.6	1/2	1	12.3	74.6	55	2.5	45	55	2	3/4	4	RH	130	277/1/60	3.4	103.4
FC 2-18	CARRIER 42DC06	CEILING CONCEALED, DUCTED, RETURN PLENUM	340	0.5	DIRECT	1/2	12.9	69.3	105	1.3	160	140	1.6	1/2	1	7.4	74.6	55	1.5	45	55	2	3/4	4	LH	80	277/1/60	3.4	103.4
FC 2-19	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,860	0.5	DIRECT	2 x 1/2	65	69.3	105	6.5	160	140	4.1	1/2	1	37.4	74.6	55	7.5	45	55	11	1	4	LH	60	277/1/60	2 x 3.4	242.0
FC 2-20	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,880	0.5	DIRECT	2 x 1/2	65.4	69.3	105	6.5	160	140	4.1	1/2	1	37.6	74.6	55	7.5	45	55	11	1	4	RH	60	277/1/60	2 x 3.4	242.0
FC 2-21	CARRIER 42CG06	CEILING MTD. CABINET, FREE BLOW	490	0.5	DIRECT	1/6	17.1	69.3	105	1.7	160	140	5.7	1/2	1	11.0	74.6	55	2.2	45	55	11	3/4	4	LH & RH	0	277/1/60	1.3	184.8
FC 2-22	CARRIER 42DC10	CEILING CONCEALED, DUCTED, RETURN PLENUM	835	0.5	DIRECT	1/2	30.9	69.3	105	3.1	160	140	0.8	1/2	1	16.9	74.6	55	3.4	45	55	5	3/4	4	LH & RH	57.5	277/1/60	3.4	165.0
FC 2-23	CARRIER 42VBC04	FLOOR MTD. VERTICAL, FREE BLOW	400	0.5	DIRECT	1/6	15	69.3	105	1.5	160	140	6.4	1/2	1	8.0	74.6	55	1.6	45	55	30	3/4	4	RH	0	277/1/60	0.8	90.2
FC 2-24	CARRIER 42VBC04	FLOOR MTD. VERTICAL, FREE BLOW	320	0.5	DIRECT	1/6	11.8667	69.3	105	1.2	160	140	6.4	1/2	1	8.0	74.6	55	1.6	45	55	30	3/4	4	RH	0	277/1/60	0.8	90.2
FC 2-25	CARRIER 42VBC12	FLOOR MTD. VERTICAL, FREE BLOW	1,200	0.5	DIRECT	2 x 1/6	50.6	69.3	105	5.1	160	140	21.8	1/2	1	31.2	74.6	55	6.2	45	55	24	3/4	4	RH	0	277/1/60	2 x 1.3	169.4
FC 3-1	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,670	0.5	DIRECT	2 x 1/2	93.6	69.5	105	9.4	160	140	4.1	1/2	1	52.5	74.6	55	10.5	45	55	11	1	4	LH & RH	55	277/1/60	2 x 3.4	242.0
FC 3-2	CARRIER 42DC10	CEILING CONCEALED, DUCTED, RETURN PLENUM	890	0.5	DIRECT	1/2	31.5	69.5	105	3.2	160	140	0.8	1/2	1	17.7	74.6	55	3.5	45	55	5	3/4	4	RH	50	277/1/60	3.4	165.0
FC 3-3	CARRIER 42DC16	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,520	0.5	DIRECT	2 x 1/2	53.15	69.5	105	5.3	160	140	2.4	1/2	1	29.9	74.6	55	6.0	45	55	8	1	4	LH & RH	30	277/1/60	2 x 3.4	195.8
FC 3-4	CARRIER 42DC16	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,410	0.5	DIRECT	2 x 1/2	49.5	69.5	105	5.0	160	140	2.4	1/2	1	28.8	74.6	55	5.8	45	55	8	1	4	LH	80	277/1/60	2 x 3.4	195.8
FC 3-5	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,000	0.5	DIRECT	2 x 1/2	69.7	69.5	105	7.0	160	140	4.1	1/2	1	39.6	74.6	55	7.9	45	55	11	1	4	RH	60	277/1/60	2 x 3.4	242.0
FC 3-6	CARRIER 42DC14	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,300	0.5	DIRECT	2 x 1/2	45.3	69.5	105	4.5	160	140	1.7	1/2	1	25.8	74.6	55	5.2	45	55	20	1	4	LH	30	277/1/60	2 x 3.4	191.4
FC 3-7	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,370	0.5	DIRECT	2 x 1/2	82.4	69.5	105	8.2	160	140	4.1	1/2	1	46.8	74.6	55	9.4	45	55	11	1	4	LH	60	277/1/60	2 x 3.4	242.0
FC 3-8	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,430	0.5	DIRECT	2 x 1/2	84.5	69.5	105	8.5	160	140	4.1	1/2	1	48.0	74.6	55	9.6	45	55	11	1	4	RH	60	277/1/60	2 x 3.4	242.0
FC 3-9	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,310	0.5	DIRECT	2 x 1/2	80.4	69.5	105	8.0	160	140	4.1	1/2	1	45.8	74.6	55	9.2	45	55	11	1	4	LH	50	277/1/60	2 x 3.4	242.0
FC 3-10	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,390	0.5	DIRECT	2 x 1/2	83	69.5	105	8.3	160	140	4.1	1/2	1	47.2	74.6	55	9.4	45	55	11	1	4	RH	50	277/1/60	2 x 3.4	242.0
FC 3-11	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,399	0.5	DIRECT	2 x 1/2	83.5	69.5	105	8.4	160	140	4.1	1/2	1	47.6	74.6	55	9.5	45	55	11	1	4	LH	60	277/1/60	2 x 3.4	242.0
FC 3-12	CARRIER 42DC16	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,500	0.5	DIRECT	2 x 1/2	52.4	69.5	105	5.2	160	140	2.4	1/2	1	30.2	74.6	55	6.0	45	55	8	1	4	RH	60	277/1/60	2 x 3.4	195.8
FC 3-13	CARRIER 42DC10	CEILING CONCEALED, DUCTED, RETURN PLENUM	840	0.5	DIRECT	1/2	29.9	69.5	105	3.0	160	140	0.8	1/2	1	17.2	74.6	55	3.4	45	55	5	3/4	4	LH	60	277/1/60	3.4	165.0
FC 3-14	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,590	0.5	DIRECT	2 x 1/2	89.9	69.5	105	9.0	160	140	4.1	1/2	1	51.6	74.6	55	10.3	45	55	11	1	4	LH	50	277/1/60	2 x 3.4	242.0
FC 3-15	CARRIER 42DC06	CEILING CONCEALED, DUCTED, RETURN PLENUM	560	0.5	DIRECT	1/2	19.4	69.5	105	1.9	160	140	1.6	1/2	1	11.2	74.6	55	2.2	45	55	2	3/4	4	LH	10	277/1/60	3.4	103.4
FC 3-16	CARRIER 42DC20	CEILING CONCEALED, DUCTED, RETURN PLENUM	2,010	0.5	DIRECT	2 x 1/2	69.7	69.5	105	7.0	160	140	4.1	1/2	1	40.1	74.6	55	8.0	45	55	11	1	4	RH	40	277/1/60	2 x 3.4	242.0
FC 3-17	CARRIER 42DC12	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,140	0.5	DIRECT	2 x 1/2	39.6	69.5	105	4.0	160	140	0.9	1/2	1	22.7	74.6	55	4.5	45	55	10	3/4	4	RH	20	277/1/60	2 x 3.4	185.9
FC 3-18	CARRIER 42CG03	CEILING MTD. CABINET, FREE BLOW	220	0.5	DIRECT	1/7	8	69.5	105	0.8	160	140	1.1	1/2	1	4.7	74.6	55	0.9	45	55	15	3/4	4	LH & RH	0	277/1/60	1.2	129.8
FC 3-19	CARRIER 42DC12	CEILING CONCEALED, DUCTED, RETURN PLENUM	1,055	0.5	DIRECT	2 x 1/2	37.5	69.5	105	3.8	160	140	0.9	1/2	1	21.2	74.6	55	4.2	45	55	10	3/4	4	LH & RH	40	277/1/60	2 x 3.4	185.9

NOTES:
1. PROVIDE SUPPLY FAN. COORDINATE WITH ELECTRICAL ON PROVIDING STARTER AND DISCONNECT.
2. ISOLATION FOR MOTOR AND MOUNT FROM CABINET AND BLOWER.
3. UNIT SUPPLY FAN SHALL BE FORWARD CURVE HORIZONTAL DISCHARGE TYPE.
4. MANUFACTURER SHALL PROVIDE SUSPENSION SUPPORT AS AN INTEGRAL PART OF THE UNIT.
5. PROVIDE UNIT DIMENSIONS ON EQUIPMENT SUBMITTAL AND COORDINATE WITH STRUCTURAL ARCHITECTURAL PLANS.
6. PROVIDE FILTER SECTION ON UNIT WITH HOLDING FRAME, MERV-13 FILTER.
7. UNIT SHALL BE OF SINGLE WALL CONSTRUCTION WITH MATTE FACE INSULATION (MINIMUM R-13).
8. ACCESS DOORS SHALL BE THE SAME CONSTRUCTION AS THE UNIT CASING.
9. HEATING COIL SHALL BE NON-FREEZE TYPE.
10. CONTROLS CONTRACTOR SHALL PROVIDE UNIT WITH DDC CONTROLS PACKAGE AND CONNECT UNIT TO DDC BUILDING CONTROL SYSTEM.
11. UNIT IS SELECTED AT AN ELEVATION OF 4000 FT ABOVE SEA LEVEL.
12. PROVIDE UNIT WITH ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110, AND ALL CLEARANCES TO COMBUSTIBLES (WHERE APPLICABLE).
13. COORDINATE COIL CONNECTION SIDE WITH DESIGN.
14. ALL SUSPENDED FAN COIL UNITS SHALL BE PROVIDED WITH CONDENSATE PUMP KIT WITH OVERFLOW SWITCH

APPROVED EQUIVALENT MANUFACTURER: YORK, MCQUAY OR APPROVED EQUAL

PUMP SCHEDULE

MARK	MANUFACTURER MODEL #	SERVICE	TYPE	GPM	HEAD FT	RPM	PUMP EFF.%	HP	ELECTRICAL VOLT	ELECTRICAL PHASE	REMARKS
CWP-1	BELL & GOSSETT E-1510	CHILLED WATER	CENTRIFUGAL, END-SUCTION, BASE MTD.	432	135	3550	80	25	480	3	WITH SUCTION DIFFUSER & MULTIPURPOSE VALVE PER DETAIL. 1 DUTY & 1-BACKUP.
CWP-2	BELL & GOSSETT E-1510	CHILLED WATER	CENTRIFUGAL, END-SUCTION, BASE MTD.	432	135	3550	80	25	480	3	
HWP-1	BELL & GOSSETT E-1510	HEATING WATER	CENTRIFUGAL, END-SUCTION, BASE MTD.	198	110	3550	75	10	480	3	WITH SUCTION DIFFUSER & MULTIPURPOSE VALVE PER DETAIL
HWP-2	BELL & GOSSETT E-1510	HEATING WATER	CENTRIFUGAL, END-SUCTION, BASE MTD.	198	110	3550	75	10	480	3	
P-1	BELL & GOSSETT 60 1-1/2X5-1/4	BOILER	INLINE SERIES 60	-	-	1750	60	0.75	480	3	FLOW AND HEAD PER BOILER MANUFACTURER
P-2	BELL & GOSSETT 60 1-1/2X5-1/4	BOILER	INLINE SERIES 60	-	-	1750	60	0.75	480	3	FLOW AND HEAD PER BOILER MANUFACTURER

BOILER SCHEDULE

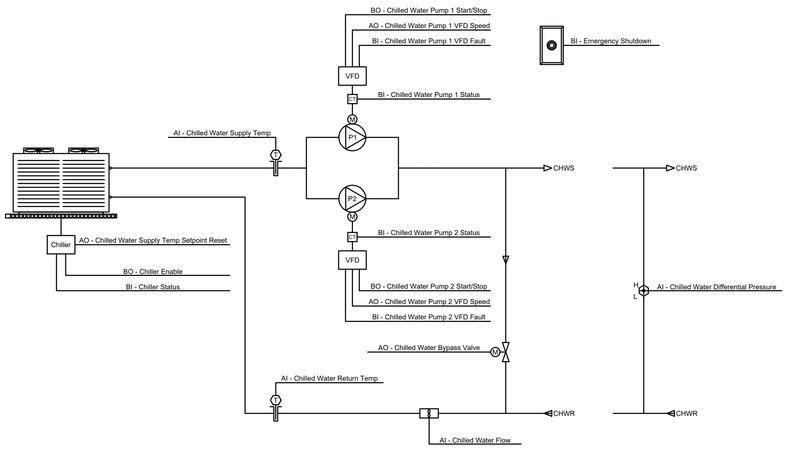
MARK	MANUFACTURER MODEL #	INPUT MBH	OUTPUT MBH @SL	OUTPUT MBH @ALT	GPM	WATER LWT (F)	WATER EWT (F)	MIN % EFF.	WATER PD FT.	WEIGHT LBS.	REMARKS
B-1	LOCHINVAR FCB 2500	2500	2400	1980	198	180	160	86	9	3555	PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER, NATURAL GAS OPERATION, H-L GAS PRESSURE SWITH, LOW WATER CUT-OFF, FLOW SWITCH, ASME PRESSURE RELIEF VALVE, 24 VOLT CONTROL, AQUASTAT, TWO TEMP. GAUGES, (INLET, OUTLET), MAIN GAS REGULATOR AND PRESSURE SWITCH, HIGH LIMIT WITH MANUAL RESET, FLOW SWITCH, GLASS LINED WATER SURFACES, REDUNDANT GAS VALVES, HI-LO AIR PRESSURE SWITCHES, HOT SURFACE IGNITION WITH ELECTRONIC SUPERVISION, FACTORY MUTUAL (FM), AND FIRING CONTROLS REQUIRED BY REGION OF INSTALL. PROVIDE CONDENSATE NEUTRALIZATION KIT. PROVIDE SIDEWALL VENT/CA KIT. ELECTRICAL TRANSFORMER. 480V / 3PH / 60HZ
B-2	LOCHINVAR FCB 2500	2500	2400	1980	198	180	160	86	9	3555	PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER, NATURAL GAS OPERATION, H-L GAS PRESSURE SWITH, LOW WATER CUT-OFF, FLOW SWITCH, ASME PRESSURE RELIEF VALVE, 24 VOLT CONTROL, AQUASTAT, TWO TEMP. GAUGES, (INLET, OUTLET), MAIN GAS REGULATOR AND PRESSURE SWITCH, HIGH LIMIT WITH MANUAL RESET, FLOW SWITCH, GLASS LINED WATER SURFACES, REDUNDANT GAS VALVES, HI-LO AIR PRESSURE SWITCHES, HOT SURFACE IGNITION WITH ELECTRONIC SUPERVISION, FACTORY MUTUAL (FM), AND FIRING CONTROLS REQUIRED BY REGION OF INSTALL. PROVIDE CONDENSATE NEUTRALIZATION KIT. PROVIDE SIDEWALL VENT/CA KIT. ELECTRICAL TRANSFORMER. 480V / 3PH / 60HZ

AIR COOLED CHILLER SCHEDULE

| MARK | MANUFACTURER AND MODEL | NOMINAL TONS | ACTUAL CAPACITY (TONS) | EER | REFRIGERANT | COOLER DATA GPM | COOLER DATA EWT (F) | COOLER DATA LWT (F) | COOLER DATA WPD FEET | COOLER DATA FOULING FACTOR (HR - SQ.FT - DEG F / BTU) |

GENERAL CONTROL NOTES (APPLICABLE TO ALL CONTROL SHEETS)

1. THE ENTIRE CONTROL SYSTEM SHALL BE FULLY OPERATIONAL, WHICH INCLUDES COMPLETE INTERGRATION WITH CAMPUS CONTROL SYSTEM, AND SIGN OFF HAS BEEN GIVEN BY THE ENGINEER.
2. CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS, WIRING, CONTACTORS, STARTERS, SWITCHES, CONTROL VALVES, THERMOSTATS, CONTROL PANELS, VFD'S. ETC. UNLESS NOTED TO BE PROVIDED BY OTHERS.
3. CONTROLS CONTRACTOR SHALL BE TOTALLY RESPONSIBLE TO MEET THE SEQUENCES OF CONTROL AND ALL RELATED CONTROLS CALLED OUT ON THE PLANS AND INTRE SPECIFICATIONS AND ANY LINE VOLTAGE.
4. CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (LOW VOLTAGE). ELECTRICAL AND WILL PROVIDE POWER FOR CONTROLS TO MECHANICAL EQUIPMENT. AT THAT POINT IF CONTROLS CONTRACTOR DESIRES ADDITIONAL LINE VOLTAGE WIRING SHALL BE BY CONTROLS CONTRACTOR.
5. ALL CONTROL WIRING SHALL BE RUN IN CONDUIT MIN. CONDUIT SIZE SHALL BE 1/2".
6. CONTROLS CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ANY & ALL MATERIALS, EQUIPMENT, CONDUIT, ETC



CHILLER - RUN CONDITIONS:
THE CHILLER SHALL BE ENABLED TO RUN WHENEVER:
- A DEFINABLE NUMBER OF CHILLED WATER COILS NEED COOLING
- AND THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 54°F (ADJ.).

TO PREVENT SHORT CYCLING, THE CHILLER SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES (BOTH USER DEFINABLE), UNLESS SHUTDOWN ON SAFETIES OR OUTSIDE AIR CONDITIONS.

THE CHILLER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

EMERGENCY SHUTDOWN:
THE CHILLER SHALL SHUT DOWN AND AN ALARM GENERATED UPON RECEIVING AN EMERGENCY SHUTDOWN SIGNAL STATUS.

CHILLED WATER PUMP LEAD/STAND-BY OPERATION:
THE TWO CHILLED WATER PUMPS SHALL RUN ANYTIME THE CHILLER IS CALLED TO RUN. THE CHILLED WATER PUMP SHALL ALSO RUN FOR FREEZE PROTECTION WHENEVER THE OUTSIDE AIR TEMPERATURE IS LESS THAN A USER DEFINABLE SETPOINT (ADJ.).

THE LEAD PUMP SHALL START PRIOR TO THE CHILLER BEING ENABLED AND SHALL STOP ONLY AFTER THE CHILLER IS DISABLED. THE PUMP(S) SHALL THEREFORE HAVE:
- A USER ADJUSTABLE DELAY ON START.
- AND A USER ADJUSTABLE DELAY ON STOP.

THE DELAY TIMES SHALL BE SET APPROPRIATELY TO ALLOW FOR ORDERLY CHILLED WATER SYSTEM START-UP, SHUTDOWN AND SEQUENCING.

THE TWO PUMPS SHALL OPERATE IN A LEAD/STANDBY FASHION.
- THE LEAD PUMP SHALL RUN FIRST.
- ON FAILURE OF THE LEAD PUMP, THE STANDBY PUMP SHALL RUN AND THE LEAD PUMP SHALL TURN OFF.

THE DESIGNATED LEAD PUMP SHALL ROTATE UPON ONE OF THE FOLLOWING CONDITIONS (USER SELECTABLE):
- MANUALLY THROUGH A SOFTWARE SWITCH
- IF PUMP RUNTIME (ADJ.) IS EXCEEDED
- DAILY
- WEEKLY
- MONTHLY

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- CWP-1
- FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- VFD FAULT.

- CWP-2
- FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- VFD FAULT.

CHILLED WATER DIFFERENTIAL PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE CHILLED WATER DIFFERENTIAL PRESSURE AND MODULATE THE LEAD CHILLED WATER PUMP VFD TO MAINTAIN ITS CHILLED WATER DIFFERENTIAL PRESSURE SETPOINT. THE FOLLOWING SETPOINTS ARE RECOMMENDED VALUES. ALL SETPOINTS SHALL BE FIELD ADJUSTED DURING THE COMMISSIONING PERIOD TO MEET THE REQUIREMENTS OF ACTUAL FIELD CONDITIONS.

THE CONTROLLER SHALL MODULATE CHILLED WATER PUMP SPEED TO MAINTAIN A CHILLED WATER DIFFERENTIAL PRESSURE OF 12LBF/IN2 (ADJ.). THE VFD MINIMUM SPEED SHALL NOT DROP BELOW 10% (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH CHILLED WATER DIFFERENTIAL PRESSURE: IF THE CHILLED WATER DIFFERENTIAL PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW CHILLED WATER DIFFERENTIAL PRESSURE: IF THE CHILLED WATER DIFFERENTIAL PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

CHILLED WATER BYPASS VALVE - MINIMUM FLOW CONTROL:
THE CONTROLLER SHALL MEASURE CHILLED WATER FLOW THROUGH THE CHILLER AND, AS THE CHILLED WATER FLOW DROPS BELOW SETPOINT, THE CONTROLLER SHALL MODULATE THE CHILLED WATER BYPASS VALVE OPEN TO MAINTAIN THE MINIMUM CHILLED WATER FLOW SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- LOW CHILLED WATER FLOW: IF THE CHILLED WATER FLOW IS 25% (ADJ.) LESS THAN SETPOINT.

CHILLER:
THE CHILLER SHALL BE ENABLED A USER ADJUSTABLE TIME AFTER PUMP STATUSES ARE PROVEN ON. THE CHILLER SHALL THEREFORE HAVE A USER ADJUSTABLE DELAY ON START.

THE DELAY TIME SHALL BE SET APPROPRIATELY TO ALLOW FOR ORDERLY CHILLED WATER SYSTEM START-UP, SHUTDOWN AND SEQUENCING.

THE CHILLER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- CHILLER FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- CHILLER RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- CHILLER RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

CHILLED WATER SUPPLY TEMPERATURE - SETPOINT RESET:
THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET USING A TRIM AND RESPOND ALGORITHM BASED ON COOLING REQUIREMENTS.

THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET TO A LOWER VALUE AS THE FACILITY'S CHILLED WATER VALVES OPEN BEYOND A USER DEFINABLE THRESHOLD (90% OPEN, TYP.). ONCE THE CHILLED WATER COILS ARE SATISFIED (VALVES CLOSING) THEN THE CHILLED WATER SUPPLY TEMPERATURE SETPOINT SHALL GRADUALLY RISE OVER TIME TO REDUCE COOLING ENERGY USE.

CHILLED WATER TEMPERATURE MONITORING:
THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
- CHILLED WATER SUPPLY.
- CHILLED WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH CHILLED WATER SUPPLY TEMP: IF THE CHILLED WATER SUPPLY TEMPERATURE IS GREATER THAN 55°F (ADJ.).
- LOW CHILLED WATER SUPPLY TEMP: IF THE CHILLED WATER SUPPLY TEMPERATURE IS LESS THAN 38°F (ADJ.).

CHILLER SYSTEM CONTROL SCHEMATIC
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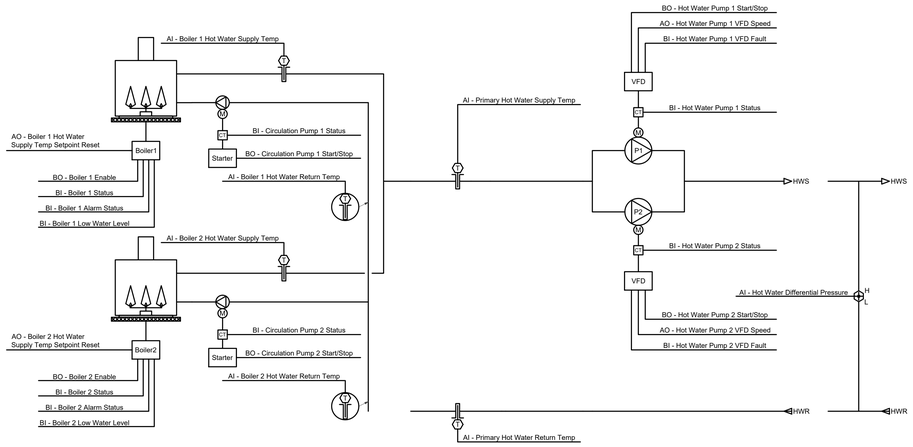

BOILER SYSTEM RUN CONDITIONS:
THE BOILER SYSTEM SHALL BE ENABLED TO RUN WHENEVER:
- A DEFINABLE NUMBER OF HOT WATER COILS NEED HEATING.
- AND OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).

TO PREVENT SHORT CYCLING, THE BOILER SYSTEM SHALL RUN FOR AND BE OFF FOR MINIMUM ADJUSTABLE TIMES (BOTH USER DEFINABLE), UNLESS SHUTDOWN ON SAFETIES OR OUTSIDE AIR CONDITIONS.

THE BOILER SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

THE BOILER SYSTEM SHALL ALSO RUN FOR FREEZE PROTECTION WHENEVER THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

BOILER B-1 SAFETIES:
THE FOLLOWING SAFETIES SHALL BE MONITORED:
- BOILER ALARM.
- LOW WATER LEVEL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- BOILER ALARM.
- LOW WATER LEVEL ALARM.

BOILER B-2 SAFETIES:
THE FOLLOWING SAFETIES SHALL BE MONITORED:
- BOILER ALARM.
- LOW WATER LEVEL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- BOILER ALARM.
- LOW WATER LEVEL ALARM.

HOT WATER PUMP LEAD/STAND-BY OPERATION:
THE TWO HOT WATER PUMPS SHALL OPERATE IN A LEAD/STAND-BY FASHION.
- THE LEAD PUMP SHALL RUN FIRST.
- ON FAILURE OF THE LEAD PUMP, THE STAND-BY PUMP SHALL RUN AND THE LEAD PUMP SHALL TURN OFF.

THE DESIGNATED LEAD PUMP SHALL ROTATE UPON ONE OF THE FOLLOWING CONDITIONS (USER SELECTABLE):
- MANUALLY THROUGH A SOFTWARE SWITCH
- IF PUMP RUNTIME (ADJ.) IS EXCEEDED
- DAILY
- WEEKLY
- MONTHLY

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HOT WATER PUMP P-1
- FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- VFD FAULT.

- HOT WATER PUMP P-2
- FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.
- VFD FAULT.

HOT WATER DIFFERENTIAL PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE HOT WATER DIFFERENTIAL PRESSURE AND MODULATE THE HOT WATER PUMP VFD TO MAINTAIN ITS HOT WATER DIFFERENTIAL PRESSURE SETPOINT.

THE FOLLOWING SETPOINTS ARE RECOMMENDED VALUES. ALL SETPOINTS SHALL BE FIELD ADJUSTED DURING THE COMMISSIONING PERIOD TO MEET THE REQUIREMENTS OF ACTUAL FIELD CONDITIONS.

THE CONTROLLER SHALL MODULATE HOT WATER PUMP SPEED TO MAINTAIN A HOT WATER DIFFERENTIAL PRESSURE OF 12LBF/IN2 (ADJ.). THE VFDS MINIMUM SPEED SHALL NOT DROP BELOW 20% (ADJ.).

THE HOT WATER DIFFERENTIAL PRESSURE, SHALL SIGNAL THE VFD TO MAINTAIN SETPOINT AS FOLLOWS:
- THE CONTROLLER SHALL MODULATE THE LEAD VFD TO MAINTAIN SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH HOT WATER DIFFERENTIAL PRESSURE: IF 25% (ADJ.) GREATER THAN SETPOINT.
- LOW HOT WATER DIFFERENTIAL PRESSURE: IF 25% (ADJ.) LESS THAN SETPOINT.

CIRCULATION PUMP 1:
THE CIRCULATION PUMP 1 SHALL RUN ANYTIME BOILER 1 IS CALLED TO RUN AND SHALL HAVE A USER DEFINABLE DELAY (ADJ.) ON STOP.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- CIRCULATION PUMP 1 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- CIRCULATION PUMP 1 RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- CIRCULATION PUMP 1 RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER-DEFINABLE LIMIT.

CIRCULATION PUMP 2:
THE CIRCULATION PUMP 2 SHALL RUN ANYTIME BOILER 2 IS CALLED TO RUN AND SHALL HAVE A USER DEFINABLE DELAY (ADJ.) ON STOP.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- CIRCULATION PUMP 2 FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- CIRCULATION PUMP 2 RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- CIRCULATION PUMP 2 RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER-DEFINABLE LIMIT.

BOILER LEAD/LAG OPERATION:
THE TWO BOILERS SHALL OPERATE IN A LEAD/LAG FASHION.
- THE LEAD BOILER SHALL RUN FIRST.
- ON FAILURE OF THE LEAD BOILER, THE LAG BOILER SHALL RUN AND THE LEAD BOILER SHALL TURN OFF.
- AS HOT WATER TEMPERATURE DROPS BELOW A SETPOINT OF 150 F (ADJ.), THE LAG BOILER SHALL STAGE ON AND RUN IN UNISON WITH THE LEAD BOILER TO MAINTAIN HOT WATER TEMPERATURE SETPOINT.
- AS HOT WATER TEMPERATURE RISES BACK TO 20°F ABOVE SETPOINT, THE LAG BOILER SHALL STAGE OFF.

THE DESIGNATED LEAD BOILER SHALL ROTATE UPON ONE OF THE FOLLOWING CONDITIONS: (USER SELECTABLE):
- MANUALLY THROUGH A SOFTWARE SWITCH
- IF BOILER RUNTIME (ADJ.) IS EXCEEDED
- DAILY
- WEEKLY
- MONTHLY

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- BOILER B-1
- FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

- BOILER B-2
- FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

- LEAD BOILER FAILURE: THE LEAD BOILER IS IN FAILURE AND THE STANDBY BOILER IS ON.

HOT WATER SUPPLY TEMPERATURE SETPOINT RESET:
THE HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET USING A TRIM AND RESPOND ALGORITHM BASED ON HEATING REQUIREMENTS.

AS THE FACILITY'S HOT WATER VALVES OPEN BEYOND A USER DEFINABLE THRESHOLD (90% OPEN, TYP.), THE SETPOINT SHALL RESET TO A HIGHER VALUE (ADJ.). ONCE THE HOT WATER COILS ARE SATISFIED (VALVES CLOSING) THEN THE SETPOINT SHALL GRADUALLY LOWER OVER TIME TO REDUCE HEATING ENERGY USER.

PRIMARY HOT WATER TEMPERATURE MONITORING:
THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
- PRIMARY HOT WATER SUPPLY.
- PRIMARY HOT WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH PRIMARY HOT WATER SUPPLY TEMP: IF GREATER THAN 200°F (ADJ.).
- LOW PRIMARY HOT WATER SUPPLY TEMP: IF LESS THAN 100°F (ADJ.).

BOILER B-1 HOT WATER TEMPERATURE MONITORING:
THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
- BOILER B-1 HOT WATER SUPPLY.
- BOILER B-1 HOT WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 200°F (ADJ.).
- LOW HOT WATER SUPPLY TEMP: IF LESS THAN 100°F (ADJ.).

BOILER B-2 HOT WATER TEMPERATURE MONITORING:
THE FOLLOWING TEMPERATURES SHALL BE MONITORED:
- BOILER B-2 HOT WATER SUPPLY.
- BOILER B-2 HOT WATER RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH HOT WATER SUPPLY TEMP: IF GREATER THAN 200°F (ADJ.).
- LOW HOT WATER SUPPLY TEMP: IF LESS THAN 100°F (ADJ.).

BOILER SYSTEM CONTROL SCHEMATIC
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1/19/2023

PROJECT
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OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
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PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION
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Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JT
Checked By	WAY

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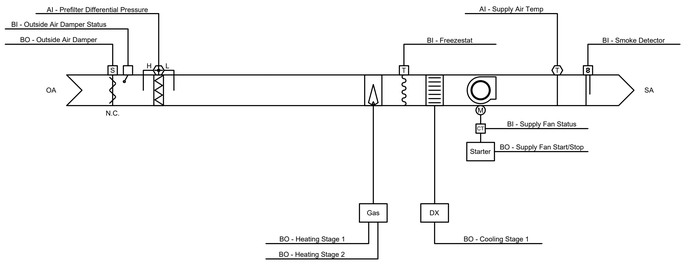
SHEET TITLE
MECHANICAL CONTROLS

SHEET
M-701



RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN BASED UPON AN OPERATOR ADJUSTABLE SCHEDULE.

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

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

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

OUTSIDE AIR DAMPER:
THE OUTSIDE AIR DAMPER SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE SUPPLY FAN SHALL START ONLY AFTER THE DAMPER STATUS HAS PROVEN THE DAMPER IS OPEN. THE OUTSIDE AIR DAMPER SHALL CLOSE 4SEC (ADJ.) AFTER THE SUPPLY FAN STOPS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- OUTSIDE AIR DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.
- OUTSIDE AIR DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

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

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.).

SUPPLY AIR TEMPERATURE SETPOINT - FIXED:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A FIXED SUPPLY AIR TEMPERATURE SETPOINT OF 65°F (ADJ.).

COOLING STAGE:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 70°F (ADJ.).
- AND THE SUPPLY AIR TEMPERATURE IS ABOVE COOLING SETPOINT.
- AND THE FAN STATUS IS ON.

GAS HEATING STAGES:
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE HEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 60°F (ADJ.).
- AND THE SUPPLY AIR TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE FAN STATUS IS ON.

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.).

SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

DEDICATED OUTDOOR AIR SYSTEM CONTROL SCHEMATIC
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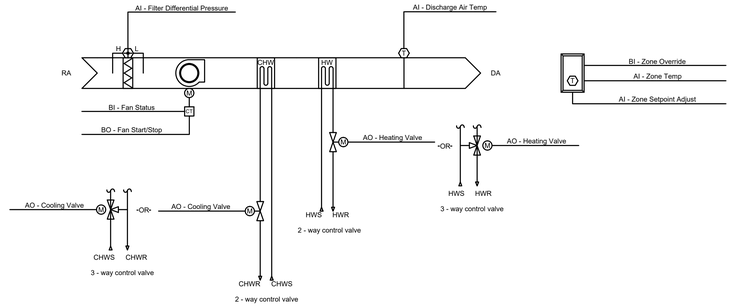


RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
- A 74°F (ADJ.) COOLING SETPOINT
- A 70°F (ADJ.) HEATING SETPOINT.

- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
- A 85°F (ADJ.) COOLING SETPOINT.
- A 55°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

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

FAN:
THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.

COOLING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE COOLING COIL VALVE TO MAINTAIN ITS COOLING SETPOINT.

THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
- AND THE FAN IS ON.

HEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE HEATING COIL VALVE TO MAINTAIN ITS HEATING SETPOINT.

THE HEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE FAN IS ON.

HEATING - HIGH DISCHARGE AIR TEMPERATURE LIMIT:
THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND, ON RISING TEMPERATURE, LIMIT THE HEATING AS FOLLOWS:
- AS THE DISCHARGE AIR TEMPERATURE RISES FROM 90°F TO 105°F (ADJ.),
- THE CONTROLLER SHALL LIMIT THE HEATING OUTPUT FROM 100% TO 0% (ADJ.).

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

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

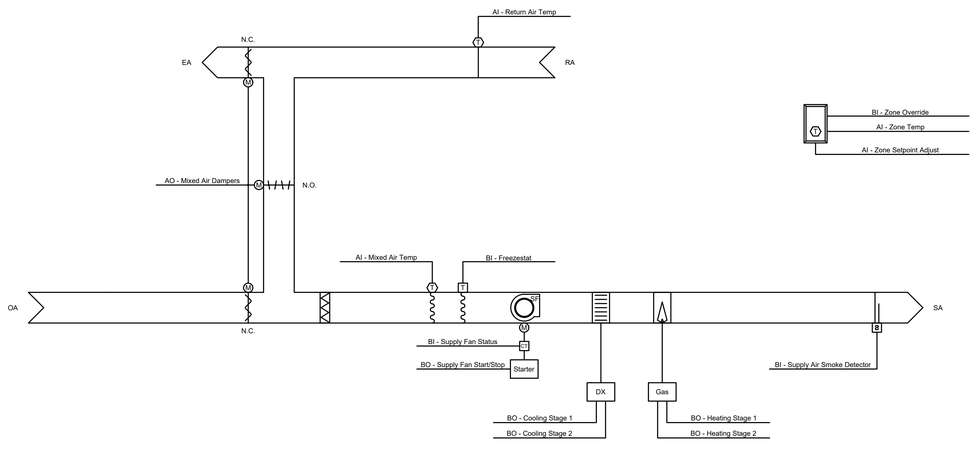
DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

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.).

FAN COIL UNIT CONTROL SCHEMATIC
NTS REFER TO PLANS FOR LOCATION



Run Conditions - Scheduled:
The unit shall run according to a user definable time schedule in the following modes:
- Occupied Mode: The unit shall maintain
- A 75°F (adj.) cooling setpoint
- A 70°F (adj.) heating setpoint.

- Unoccupied Mode (night setback): The unit shall maintain
- A 85°F (adj.) cooling setpoint.
- A 55°F (adj.) heating setpoint.

Alarms shall be provided as follows:
- High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.).
- Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Zone Setpoint Adjust:
The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.

Zone Unoccupied Override:
A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.

Freeze Protection:
The unit shall shut down and generate an alarm upon receiving a freezestat status.

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.).

Cooling Stages:
The controller shall measure the zone temperature and stage the cooling to maintain its cooling setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.

The cooling shall be enabled whenever:
- Outside air temperature is greater than 60°F (adj.).
- AND the economizer is disabled or fully open.
- AND the zone temperature is above cooling setpoint.
- AND the supply fan status is on.
- AND the heating is not active.

Gas Heating Stages:
The controller shall measure the zone temperature and stage the heating to maintain its heating setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.

The heating shall be enabled whenever:
- Outside air temperature is less than 65°F (adj.).
- AND the zone temperature is below heating setpoint.
- AND the supply fan status is on.
- AND the cooling is not active.

Economizer:
The controller shall measure the zone temperature and modulate the economizer dampers in sequence to maintain a setpoint 2°F less than the zone cooling setpoint. The outside air dampers shall maintain a minimum adjustable position of 20% (adj.) open whenever occupied.

The economizer shall be enabled whenever:
- Outside air temperature is less than 65°F (adj.).
- AND the outside air temperature is less than the return air temperature.
- AND the supply fan status is on.

The economizer shall close whenever:
- Mixed air temperature drops from 45°F to 40°F (adj.).
- OR on loss of supply fan status.
- OR the freezestat is on.

The outside and exhaust air dampers shall close and the return air damper shall open when the unit is off. If Optimal Start Up is available, the mixed air damper shall operate as described in the occupied mode except that the outside air damper shall modulate to fully closed.

Minimum Outside Air Ventilation - Fixed Percentage:
The outside air dampers shall maintain a minimum position (adj.) during building occupied hours and be closed during unoccupied hours.

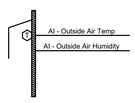
Mixed Air Temperature:
The controller shall monitor the mixed air temperature and use as required for economizer control (if present) or preheating control (if present).

Alarms shall be provided as follows:
- High Mixed Air Temp: If the mixed air temperature is greater than 90°F (adj.).
- Low Mixed Air Temp: If the mixed air temperature is less than 45°F (adj.).

Return Air Temperature:
The controller shall monitor the return air temperature and use as required for economizer control (if present).

Alarms shall be provided as follows:
- High Return Air Temp: If the return air temperature is greater than 90°F (adj.).
- Low Return Air Temp: If the return air temperature is less than 45°F (adj.).

ROOFTOP UNIT SCHEMATIC
NTS



OUTSIDE AIR CONDITIONS:
THE CONTROLLER SHALL MONITOR THE OUTSIDE AIR TEMPERATURE AND HUMIDITY AND CALCULATE THE OUTSIDE AIR ENTHALPY ON A CONTINUAL BASIS. THESE VALUES SHALL BE MADE AVAILABLE TO THE SYSTEM AT ALL TIMES.

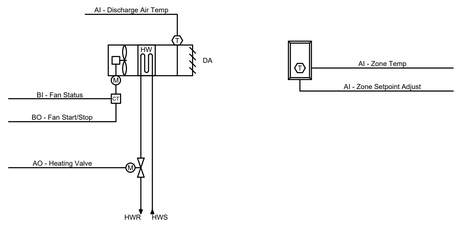
ALARM SHALL BE GENERATED AS FOLLOWS:
- SENSOR FAILURE: SENSOR READING INDICATES SHORTED OR DISCONNECTED SENSOR. IN THE EVENT OF A SENSOR FAILURE, AN ALTERNATE OUTSIDE AIR CONDITIONS SENSOR SHALL BE MADE AVAILABLE TO THE SYSTEM WITHOUT INTERRUPTION IN SENSOR READINGS.

IF AN OA TEMP SENSOR CANNOT BE READ, A DEFAULT VALUE OF 65°F WILL BE USED.

IF AN OA HUMIDITY SENSOR CANNOT BE READ, A DEFAULT VALUE OF 50 % WILL BE USED.

OUTSIDE AIR TEMPERATURE HISTORY:
THE CONTROLLER SHALL MONITOR AND RECORD THE HIGH AND LOW TEMPERATURE READINGS FOR THE OUTSIDE AIR. THESE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

OUTSIDE AIR CONDITIONS CONTROL SCHEMATIC
NTS



Run Conditions - Scheduled:
The unit shall run according to a user definable time schedule in the following modes:
- Occupied Mode: The unit shall maintain a heating setpoint of 70°F (adj.).
- Unoccupied Mode (night setback): The unit shall maintain a heating setpoint of 65°F (adj.).

Alarms shall be provided as follows:
- Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Zone Setpoint Adjust:
The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.

Fan:
The fan shall run anytime the zone temperature drops below heating setpoint, unless shutdown on safeties.

Heating Coil Valve:
The controller shall measure the zone temperature and modulate the heating coil valve to maintain its heating setpoint.

The heating shall be enabled whenever:
- Outside air temperature is less than 65°F (adj.).
- AND the zone temperature is below heating setpoint.
- AND the fan is on.

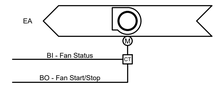
Discharge Air Temperature:
The controller shall monitor the discharge air temperature.

Alarms shall be provided as follows:
- High Discharge Air Temp: If the discharge air temperature is greater than 120°F (adj.).
- Low Discharge Air Temp: If the discharge air temperature is less than 40°F (adj.).

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.).

UNIT HEATER SCHEMATIC
NTS



Run Conditions - Scheduled:
The fan shall run according to a user definable schedule.

Fan:
The fan shall have a user definable (adj.) minimum runtime.

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.)

EXHAUST FAN - ON/OFF SCHEMATIC
NTS

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PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION
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Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JT
Checked By	WAY

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE
MECHANICAL CONTROLS

SHEET
M-702

ELECTRICAL SYMBOL LEGEND

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING CONDUIT TO BE REMOVED.		CEILING JUNCTION BOX.
	HOME-RUN CONDUIT.		WALL JUNCTION BOX.
	CONDUCTOR TICK MARKS: NEUTRAL, PHASE, SWITCHED, AND GROUND CONDUCTORS RESPECTIVELY.		DUPLEX RECEPTACLE, 18"AFF. (#) INDICATES CIRCUIT.
	CAPPED CONDUIT / CONDUIT STUB-OUT.	GFCI	GFCI PROTECTED DUPLEX RECEPTACLE. RECEPTACLES WITH TRIP RESET SHALL BE IN READILY ACCESSIBLE LOCATION.
	CONDUIT SEAL.	EDF	SLAVE GFCI-PROTECTED RECEPTACLE (NEC 422.52) FOR ELECTRIC DRINKING FOUNTAIN (EDF) CONCEALED WITHIN CASE.
#	ELECTRICAL KEYED NOTE TAG.		QUADPLEX RECEPTACLE, 18" AFF TO CENTER.
E-16	KITCHEN ITEM TAG, SEE KITCHEN EQUIPMENT ELECTRICAL CONNECTION SCHEDULE.		GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE WITH WEATHER-RESISTANT (WR) COVER.
B-2	MECHANICAL UNIT TAG (EXAMPLE: BOILER B-2 INDICATED), SEE MECHANICAL EQUIPMENT SCHEDULE.		SPLIT-WIRED DUPLEX RECEPTACLE
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED.		CEILING MOUNTED DUPLEX RECEPTACLE.
E OH	OVERHEAD PRIMARY ELECTRICAL LINE.		SPECIAL RECEPTACLE, TYPE AS NOTED.
E UG	PRIMARY ELECTRICAL UNDERGROUND FEEDER.		FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE.
E.GR.	EQUIPMENT GROUND.		ISOLATED GROUND DUPLEX RECEPTACLE
AFF	ABOVE FINISH FLOOR.		DUPLEX RECEPTACLE WITH BUILT-IN USB CHARGER OUTLET.
AC	ABOVE COUNTER.	HDMI	GANGABLE 3-COMPARTMENT MEDIA CENTER.
WR	WEATHER-RESISTANT.		CABLE TRAY.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER.		MULTI-RECEPTACLE RACEWAY (PLUGMOLD).
AHJ	AUTHORITY HAVING JURISDICTION.		SURFACE MOUNTED PANELBOARD, REFER TO ASSOCIATED PANEL SCHEDULE.
$ $a	SINGLE-POLE WALL SWITCH. SUBSCRIPT DESIGNATES CONTROL OF PARTICULAR LIGHTING FIXTURES.		FLUSH MOUNTED PANELBOARD, REFER TO ASSOCIATED PANEL SCHEDULE.
$3 $4	THREE-WAY AND FOUR-WAY SWITCHES, RESPECTIVELY.		DISTRIBUTION POWER PANEL, REFER TO ASSOCIATED PANEL SCHEDULE.
$WR	WEATHER-RESISTANT SWITCH.	T	DRY-TYPE, STEP-DOWN / STEP-UP TRANSFORMER.
$K	KEY-OPERATED SWITCH.	60/3	NON-FUSED DISCONNECT SWITCH, NEMA 3R IF OUTSIDE, AMPS / POLES INDICATED.
$D	DIMMER SWITCH, 1200W MINIMUM WATTAGE.	60/3/45	FUSED DISCONNECT SWITCH, NEMA 3R IF OUTSIDE, AMPS/ POLES / FUSE SIZE INDICATED.
$TT	MECHANICALLY WOUND TWIST-TIMER SWITCH OR ELECTRONIC TIME SWITCH.		MOTOR STARTER.
$T	THERMAL SWITCH.	60/3/45 *	COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH, NEMA 3R IF OUTSIDE.
$OC	OCCUPANCY SENSOR SWITCH. WATT-STOPPER DUAL TECHNOLOGY #DW-100 OR EQUAL.	2	MOTOR, HP SIZE AS INDICATED, "F" = FRACTIONAL HORSEPOWER.
$OCD	DUAL-TECHNOLOGY OCCUPANCY DIMMER SWITCH. WATT-STOPPER #DW-311-WH OR EQUAL.		CLOCK.
$OCF	DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH FAN DELAY CONTROL. WATT STOPPER #WDT200W OR EQUAL.	CW	COMBINATION CLOCK/SPEAKER UNIT.
$3OC	3-WAY / MULTI-WAY OCCUPANCY SENSOR SWITCH. WATT-STOPPER DUAL TECHNOLOGY #DW-103 OR EQUAL.	S	SPEAKER, CEILING MOUNTED
	LIGHTING CONTROL OCCUPANCY SENSOR, CEILING MOUNTED.	S	SURFACE MOUNTED SOUND SYSTEM SPEAKER.
$EC	EVAPORATIVE COOLER SWITCH.	M	MICROPHONE OUTLET.
$PF	PADDLE FAN / LIGHT CONTROL SWITCHES. SWITCHES ALLOW INDEPENDENT CONTROL OF FAN SPEED AND LIGHTING.	CS	CALL-IN SWITCH (PUSH-TO-CALL) FOR INTERCOM SYSTEM.
C	2'X4' LAY-IN LIGHTING FIXTURE (TROFFER), TYPE INDICATED BY LETTER (TYPICAL).	T	THERMOSTAT
C EM	"EM" INDICATES LIGHTING FIXTURE IS SUPPLIED WITH AN EMERGENCY BATTERY PACK.		COMBINATION VOICE/DATA OUTLET, UP 18" U.N.O. EXTEND 3/4" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING.
	1'X4' SURFACE MOUNTED LIGHTING FIXTURE.		FLUSH CEILING VOICE/DATA OUTLET. EXTEND 3/4"C. WITH PULL STRING TO CEILING.
	1'X4' RECESSED (FLANGED) MOUNTED LIGHTING FIXTURE.		FLUSH FLOOR VOICE/DATA OUTLET. EXTEND 3/4"C. WITH PULL STRING TO CEILING.
	2'X2' LAY-IN LIGHTING FIXTURE (TROFFER).	TV	CATV OUTLET
	UTILITY STRIP FIXTURE.	PTZ	SURVEILLANCE CAMERA. PTZ = PAN, TILT, ZOOM. WEATHER-RESISTANT IF LOCATED ON BUILDING EXTERIOR.
	LINEAR PENDANT MOUNTED LIGHTING FIXTURE, LENGTH AS INDICATED.		EMERGENCY PUSH BUTTON.
	4' WALL BRACKET MOUNTED LIGHTING FIXTURE.		PROJECTOR.
	WALL BRACKET LIGHTING FIXTURE.		DOOR ACCESS CARD READER.
	POLE MOUNTED AREA LIGHTING FIXTURE, SINGLE-HEAD.		INTERCOM HEAD-END UNIT.
	POLE MOUNTED AREA LIGHTING FIXTURE, DOUBLE-HEAD.	BSD	BARE SOFT-DRAWN.
	RECESSED DOWNLIGHT FIXTURE.		DOORBELL SYSTEM PUSHBUTTON.
	SURFACE MOUNTED DRUM TYPE LIGHTING FIXTURE.		DOORBELL/CHIME.
	BOLLARD LIGHTING FIXTURE.		MAGNETIC DOOR HOLD OPEN DEVICE.
	HIGH-BAY LIGHTING FIXTURE.	M	MAGNETIC DOOR LOCK.
	LOW-BAY LIGHTING FIXTURE.	WAP	WIRELESS ACCESS POINT.
	FLUSH IN-GROUND LIGHTING FIXTURE.	PC	PHOTOCELL.
	TWIN-LAMP AUTOMATIC MOTION-SENSOR FLOODLIGHT.		GAS SOLENOID VALVE FOR KITCHEN AUTO GAS SHUT-OFF.
	EXTERIOR WALLPACK LIGHTING FIXTURE.		DOOR OPERATOR PUSH-PAD UNIT (ADA COMPLIANT).
	INTERIOR WALL SCONCE LIGHTING FIXTURE.		MODULAR FURNITURE POWER CONNECTION POINT.
	EXTERIOR WALL SCONCE LIGHTING FIXTURE.		MAGNETIC DOOR HOLD OPEN DEVICE.
	STEP LIGHT LIGHTING FIXTURE.		MOTION SENSOR FOR SECURITY/INTRUSION ALARM SYSTEM.
	PENDANT HUNG DECORATIVE LIGHTING FIXTURE.		SECURITY/INTRUSION ALARM SYSTEM DOOR SWITCH.
	STANCHION MOUNTED SIGN-LIGHTER FIXTURE.		FIRE ALARM DUCT SMOKE DETECTOR.
	GOOSENECK MOUNTED LIGHTING FIXTURE.		FIRE ALARM STROBE UNIT.
	TRACK MOUNTED LIGHTING ASSEMBLY, ONE FIXTURE HEAD INDICATED.		FIRE ALARM AUDIO/STROBE UNIT.
	TWIN-EYE EMERGENCY LIGHTING UNIT WITH BATTERY BACK-UP. TYPE "EM", REFER TO LUMINAIRE SCHEDULE.	FVS	FIRE PROTECTION SPRINKLER SYSTEM POST INDICATOR VALVE.
	EXTERIOR EMERGENCY LIGHTING UNIT WITH BATTERY BACK-UP. TYPE "EMEX", REFER TO LUMINAIRE SCHEDULE.		FIRE ALARM SMOKE DETECTOR.
	EXIT SIGN, SINGLE FACE INDICATED BY SHADED QUADRANT. TYPE "EXIT", REFER TO LUMINAIRE SCHEDULE.		CEILING MOUNTED FIRE ALARM AUDIO/STROBE UNIT.
	EXIT SIGN, DOUBLE-FACED, DIRECTIONAL ARROWS INDICATED.	F	FIRE ALARM MANUAL PULL STATION.
	COMBO EXIT SIGN/EMERGENCY TWIN-EYE UNIT TYPE "XEM", REFER TO LUMINAIRE SCHEDULE.	FACP	FIRE ALARM CONTROL PANEL (FACP).
	PADDLE FAN, WITH OR WITHOUT LIGHT PER LUMINAIRE SCHEDULE.	FARA	FIRE ALARM REMOTE ANNUNCIATOR (FARA).
	J-BOX WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN LIGHTING FIXTURES.		
	PHOTOCELL.		
	DAYLIGHT HARVESTING PHOTOSENSOR, CEILING MOUNTED.		

GENERAL / POWER / LIGHTING / SPECIAL SYSTEMS / FIRE ALARM

PROJECT GENERAL ELECTRICAL NOTES:

A. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE (NEC) AND REGULATIONS OF STATE AND LOCAL AUTHORITIES HAVING JURISDICTION (AHJ) IN A NEAT AND WORKMANLIKE MANNER.

B. CONTRACTOR SHALL COORDINATE WITH SERVING UTILITY COMPANY NEW SERVICE DEPARTMENT AND OBTAIN A PROJECT SPECIFIC "STANDARDS LETTER" PRIOR TO BIDDING, ORDERING, OR COMMENCING WITH THE ELECTRICAL DISTRIBUTION PORTION OF THIS PROJECT.

C. ALL REQUIREMENTS OF THE SERVING UTILITY COMPANY FOR ELECTRICAL SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

D. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PROVIDING TELEPHONE, CATV, AND INTERNET IN ORDER TO ASCERTAIN JOB SPECIFIC UTILITY REQUIREMENTS AND COMPLIANCE WITH THOSE REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

E. BY SUBMITTING A BID, THE CONTRACTOR AFFIRMS THEY HAVE FAMILIARIZED THEMSELVES WITH THE PROJECT SITE, PLANS, SPECIFICATIONS AND ALL APPLICABLE CODES IN ORDER TO PROVIDE A COMPREHENSIVE AND COMPLETE BID.

F. ALL DEVICES SHALL BE WHITE WITH COMPATIBLE PLASTIC PLATES, INSTALLED FOR ADA COMPLIANCE UNLESS NOTED OTHERWISE.

G. ALL TELEPHONE, DATA, SECURITY, CATV, SOUND AND INTERCOM LOW VOLTAGE SYSTEMS ARE PROVIDED BY OTHERS UNLESS NOTED OTHERWISE. NOTE: * LOW VOLTAGE CONTRACTORS ARE REQUIRED TO OBTAIN INDEPENDENT PERMITS FROM THE AHJ PRIOR TO STARTING THEIR WORK.

H. UTILIZE "DEEP" 4-SQUARES WHERE REQUIRED TO COMPLY WITH NEC 314.16 EXTRA CONSIDERATION SHALL BE GIVEN TO BOXES SUPPLYING HOME-RUNS.

I. CONFIRM EXACT ROUGH-IN DIMENSIONS WITH ARCHITECTURAL DRAWINGS, AND APPLICABLE KITCHEN/APPLIANCE EQUIPMENT, AND FURNITURE/MILL-WORK PLAN(S). EXTRA CARE SHALL BE EXERCISED IN COORDINATING THE EXACT REQUIREMENT(S) OF SPECIALTY EQUIPMENT INCLUDING, BUT NOT LIMITED TO, MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT, MEDICAL EQUIPMENT, OR PROCESSING EQUIPMENT.

ELECTRICAL DEVICES INSTALLATION SHALL COMPLY WITH ACCESSIBILITY (ADA) STATUTE ICC/ANSI 117.1 SECTION 308. SPECIFICALLY: MOUNT APPLICABLE SWITCHES, RECEPTACLES, AND ENVIRONMENTAL CONTROLS SO THAT THEY ARE LOCATED WITH THE TOP OF THE DEVICE NO HIGHER THAN 48" ABOVE FINISHED FLOOR (AFF) AND THE BOTTOM OF THE DEVICE NO LOWER THAN 15" AFF.

J. GENERAL CONTRACTOR TO SAW-CUT / REMOVE / PATCH EXISTING ARCHITECTURAL SURFACES INCLUDING BUT NOT LIMITED TO SLABS, WALLS AND ROOFS.

K. SHARED NEUTRALS ARE NOT PERMISSIBLE UNLESS NOTED OTHERWISE.

L. CONDUCTOR TICK MARKS, WHERE SHOWN, ARE SHOWN FOR CONVENIENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONDUCTORS WHETHER SHOWN OR NOT INCLUDING "TRAVELERS" AS NECESSARY FOR COMPLETELY OPERATIONAL SYSTEMS.

M. BRANCH CIRCUITING SHALL BE COPPER WIRE IN MC CABLE UNLESS SPECIFICALLY NOTED OTHERWISE. MINIMUM WIRE SIZE IS #12 AWG. WHEN CONDUIT IS UTILIZED, ALL FITTINGS SHALL BE COMPRESSION TYPE AND COLOR CODING VINYL BANDS IDENTIFYING DIFFERENT SYSTEMS SHALL BE AFFIXED AT EACH BOX, PANELBOARD, AND EVERY ACCESSIBLE 10'-0"

N. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUIT REQUIRED FOR MECHANICAL SYSTEMS CONTROLS. ALL CONTROLS WIRING SHALL BE INSTALLED AND TERMINATED BY CONTROLS CONTRACTOR. COORDINATE LOCATION AND ROUTING OF CONTROLS CONDUIT WITH MECHANICAL PLANS AND WITH MECHANICAL SEQUENCE OF CONTROLS.

O. ALL PANELS AND DISTRIBUTION BOARDS, NEW/EXISTING SHALL HAVE TYPEWRITTEN DIRECTORIES AND EQUIPMENT I.D. NAMEPLATES UPON COMPLETION OF ANY ELECTRICAL MODIFICATIONS UNDER THIS CONTRACT.

P. CONTRACTOR SHALL CONSIDER AND MAKE ADJUSTMENTS IN CONDUIT/WIRE SIZE(S) TO ACCOUNT FOR VOLTAGE DROP PRIOR TO COMMENCING WITH WORK UNDER THIS CONTRACT. VOLTAGE DROP SHALL NOT EXCEED THE FOLLOWING IN ACCORDANCE WITH IECC 2018 C405.9:

FEEDERS = 2% BRANCH WIRING = 3%

Q. CONTRACTOR SHALL COMPLY WITH NEC 110.16. AFFIX PERMANENT ARCH-FLASH HAZARD WARNING LABEL(S) ON ALL APPLICABLE ELECTRICAL EQUIPMENT MODIFIED OR INSTALLED UNDER THIS CONTRACT.

R. FOR ELECTRICAL DISTRIBUTION SYSTEMS HAVING A MAIN DISCONNECT RATING OF 1,000-AMPS OR MORE, CONTRACTOR SHALL OBTAIN THIRD PARTY OVER-CURRENT PROTECTION STUDY. ALL OVER-CURRENT DEVICES SHALL BE "SET" OR ADJUSTED TO COMPLY WITH COORDINATION STUDY PRIOR TO FINAL COMMISSIONING. A FULL COPY OF THE COMPLETED STUDY ALONG WITH CONTRACTOR'S CERTIFICATION OF COMPLIANCE SHALL BE INCLUDED IN THE PROJECT'S "CLOSE-OUT" DOCUMENTATION.

S. ALL EQUIPMENT AND WORKMANSHIP FURNISHED UNDER THIS CONTRACT SHALL BE WARRANTABLE TO BE FREE FROM ANY DEFECT FOR A PERIOD EQUAL TO 1-YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

PROJECT GENERAL ELECTRICAL DEMOLITION NOTES:

A. AS-BUILT CONDITIONS ARE ILLUSTRATED RESULTING FROM ENGINEER'S VISUAL OBSERVATION OF THE FACILITY. CONTRACTOR SHALL REVIEW, INSPECT, AND TRACE OUT ALL EXISTING ELECTRICAL SYSTEMS IN ORDER TO COMPLETE A SAFE AND ORDERLY DISCONNECT/REMOVAL OF EACH SYSTEM MODIFIED UNDER THIS CONTRACT.

B. CONTRACTOR SHALL SAFE GUARD EXISTING WIRING AND DEVICES IN WALLS OR CEILINGS TO REMAIN. REFER TO ARCHITECTURAL PLAN FOR EXACT DESCRIPTION OF DEMOLITION.

C. ALL DASHED WALLS ON THE ELECTRICAL DEMOLITION PLAN INDICATE WALLS WHICH SHALL BE DEMOLISHED COMPLETELY. REFER TO ARCHITECTURAL DEMOLITION PLANS AND DETAILS.

D. CONTRACTOR SHALL PROPERLY DISPOSE OF, OR RECYCLE, LAMPS AND BALLASTS REMOVED BY THIS CONTRACT.

E. REMOVE ALL EXISTING DEVICES SHOWN (LIGHT FIXTURES, RECEPTACLES, SWITCHES, COMMUNICATION OUTLETS, JUNCTION BOXES) ON ELECTRICAL DEMOLITION PLAN UNLESS NOTED OTHERWISE.

F. REMOVE ALL CONDUIT AND WIRE TO DEVICES SHOWN TO BE REMOVED. REMOVE ALL EXPOSED OR ACCESSIBLE CONDUIT RUNS. ABANDONED, CONCEALED, INACCESSIBLE CONDUIT (REMOVE WIRING) IN PLACE. CONDUIT AND WIRING SHALL BE REMOVED BACK TO PANELBOARD OR NEAREST DEVICE WHICH IS TO REMAIN.

G. CONTRACTOR SHALL MAINTAIN ALL CIRCUIT AND CONDUIT CONTINUITY TO ALL EXISTING DEVICES WHICH ARE TO REMAIN. PROVIDE ALL FIELD CIRCUIT VERIFICATION AS REQUIRED TO ENSURE CONTINUITY IS MAINTAINED.

H. EXISTING CONDUIT, WIRING, WIRE-WAYS, MC CABLE MAY REMAIN IN PLACE AND UTILIZED WHERE PRACTICAL PROVIDED IT IS PROPERLY INSTALLED AND IN GOOD CONDITION. DAMAGED EXISTING CIRCUITRY SHALL BE REPLACE.

NOTE:

CONTRACTOR SHALL REFER TO THE SPECIFICATIONS MANUAL AND SHEET(S) G-003 AND G-004 FOR A COMPLETE SCHEDULE OF ALLOWANCE(S), ALTERNATE(S), AND PROJECT SEQUENCING.

ADDITIVE ALTERNATE #3:

CONTRACTOR SHALL PROVIDE ALL COSTS ASSOCIATED TO THE SHIPMENT, DELIVERY, AND INSTALLATION OF NEW SWITCHBOARD "MDP" NOT TO EXCEED 36-WEEKS AFTER RELEASE OF ORDER.

THE BASE BID AND/OR ADDITIVE ALTERNATE #3 REQUIRE THE CONTRACTOR TO PROVIDE AN EXPEDITED SUBMITTAL FOR THE "MDP" WITHIN 10 CALENDAR DAYS FOLLOWING THE NOTICE OF CONTRACT AWARD.

LUMINAIRE SCHEDULE

RISD AESC BUILDING

TYPE	MANUFACTURER	CATALOG NUMBER	LAMP(S) CRI	LAMP(S) WATTS	LAMP(S) TYPE	DESCRIPTION	VOLT.	LUMENS	MOUNTING	COMMENTS
A	COLUMBIA	LCAT22-40-MW-G-ED-U	80	16.4	LED	2X2 TROFFER	UNV	2,113	RECESSED	
AE	COLUMBIA	LCAT22-40-MW-G-ED-U-ELL145T	80	16.4	LED	2X2 EM TROFFER	UNV	2,113	RECESSED	BATTERY BACK-UP
B	LITECONTROL	SAE102PID-08-SOF-C1-4080K-1850-D950-1C-D01-UNV-FA1-W1-L1	82	100	LED	8' D/I LINEAR	UNV	11,600	PENDANT	
C	LITECONTROL	SAE-102-P-ID-04-SOF-C1-40K-1050-D080-1C-D01-UNV-FA1-W2-L1	82	43.6	LED	1X4 LINEAR	UNV	5,200	PENDANT	
CE	LITECONTROL	SAE-102-P-ID-04-SO4-C11-40K-1050-D0B0-1C-D01-UNV-FA1-EF-W2-L1	82	43.6	LED	1X4 EM LINEAR	UNV	5,200	PENDANT	BATTERY BACK-UP
XEM	EXTRONIX	CLED-U-WH-G2			LED	EMERGENCY EGRESS	UNV		SURFACE	BATTERY BACK-UP, PROVIDE WITH REMOTE HEAD WHERE INDICATED #MLED1-W-WP

NOTES: 1. ALL EMERGENCY BALLASTS SHALL BE FACTORY INSTALLED. 01-2023
2. ALL FIXTURES SHALL CONFORM TO APPLICABLE CODES INCLUDING BUT NOT LIMITED TO NIGHT SKY ACT(S) AND ENERGY CONSERVATION STATUTES.
3. ANY SUBSTITUTIONS REQUIRE WRITTEN APPROVAL 10 DAYS PRIOR TO BID (ACUITY, HUBBELL AND SIGNIFY) ARE GENERALLY ACCEPTED EQUALS).

IECC ELECTRICAL & LIGHTING COMPLIANCE

THE ELECTRICAL DESIGN ILLUSTRATED BY THESE PLANS AND SPECIFICATIONS IS IN COMPLIANCE WITH THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE SECTION(S) C405, C408, C501-5, CA101-3, R202.4.5, R404, AND R501-5 AS SPECIFICALLY APPLICABLE TO THIS PROJECT AS FOLLOWS:

1. C405.2 - LIGHTING CONTROLS (MANDATORY)
   A. REFER TO LIGHTING PLAN(S) AND/OR DETAIL(S) FOR PROJECT REQUIREMENTS.
2. C405.3 - INTERIOR LIGHTING POWER REQUIREMENTS
   A. TABLE C405.3.2(1)
   ALLOWABLE INTERIOR POWER FOR THIS PROJECT IS: EXISTING
   ACTUAL INTERIOR POWER IS: REDUCED BY 13,174 WATTS
3. C405.4 - EXTERIOR LIGHTING POWER REQUIREMENTS (MANDATORY)
   A. TABLE C405.4(1)
   - THIS PROVIDE IS IN LIGHTING ZONE # 2 .
   B. TABLE 405.4.2(2)
   - BASE SITE ALLOWANCE: 400W
   - PARKING AREAS AND DRIVES: 0.04 W/FT^2
   - WALKWAYS/RAMPS < 10'-0" WIDE: 0.5W/LINEAR FT
   - WALKWAYS/RAMPS > 10'-0" WIDE, PLAZA AREAS, SPECIAL FEATURE AREAS: 1.10 W/FT^2
   - PEDESTRIAN AND VEHICULAR ENTRANCES AND EXITS: 14W/LINEAR FT
   - ENTRY CANOPIES: 0.25W/FT^2
   C. TABLE 405.4.2(3)
   - BUILDING FACADES: 0.075W/FT OF GROSS ABOVE-GRADE WALL AREA
   ALLOWABLE EXTERIOR POWER FOR THIS PROJECT IS: EXISTING
   ACTUAL EXTERIOR POWER: EXISTING
4. C405.6 - ELECTRICAL TRANSFORMER (MANDATORY)
   A. LOW VOLTAGE DRY-TYPE DISTRIBUTION ELECTRIAL TRANSFORMERS SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS AS TESTED AND RATED IN ACCORDANCE WITH DOE 10 CFR 431.
   B. C405.6
   - REFER TO SINGLE LINE DIAGRAM ON SHEET E-600 FOR TRANSFORMER(S) APPLICABLE TO THIS PROJECT.
5. C405.9 - VOLTAGE DROP IN FEEDERS AND BRANCH CIRCUITS
   A. REFER TO GENERAL NOTE "P" FOR PROJECT VOLTAGE DROP LIMITATIONS.

THIS FACILITY COMPLIES WITH THE MAXIMUM EXTERIOR POWER REQUIREMENTS.

ELECTRICAL SHEET INDEX

1. E-001 ELECTRICAL GENERAL NOTES, LEGEND & SCHEDULE
2. ED-101 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
3. ED-102 SECOND FLOOR ELECTRICAL DEMOLITION PLAN
4. ED-103 THIRD & FOURTH ELECTRICAL DEMOLITION PLAN
5. ED-104 ROOF ELECTRICAL DEMOLITION PLAN
6. E-101 FIRST FLOOR LIGHTING PLAN
7. E-102 SECOND FLOOR LIGHTING PLAN
8. E-103 THIRD & FOURTH LIGHTING PLAN
9. E-201 FIRST FLOOR POWER PLAN
10. E-202 SECOND FLOOR POWER PLAN
11. E-203 THIRD & FOURTH POWER PLAN
12. E-204 ROOF POWER PLAN
13. E-600 RISER DIAGRAM
14. E-601 PANEL SCHEDULES

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FELIX A. SAUCEDA JR. 1/16/2023 PROFESSIONAL ENGINEER

PROJECT

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OWNER

ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS

300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS

CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION
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Project Number	2022-011
Project File	
Drawn By	JT
Checked By	FS

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SHEET TITLE

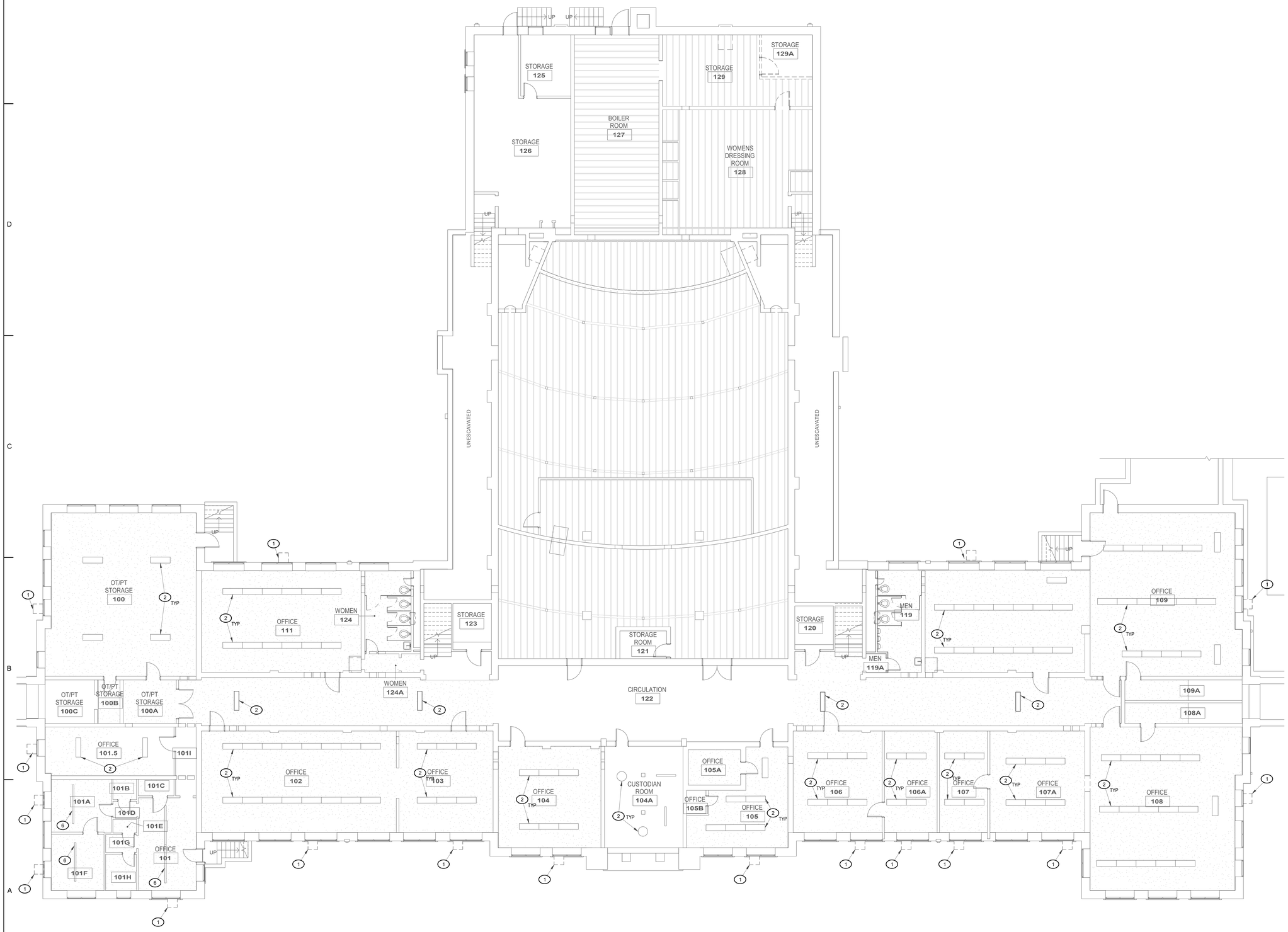
ELECTRICAL GENERAL NOTES, LEGEND & SCHEDULES

SHEET

E-001

KEYED NOTES

1. DISCONNECT/REMOVE EXISTING ELECTRICAL SERVING MECHANICAL EQUIPMENT SCHEDULED FOR REMOVAL.
2. REMOVE EXISTING LIGHT FIXTURE(S) AND REPLACE WITH NEW FIXTURES AS SCHEDULED. SAFEGUARD EXISTING LIGHTING CIRCUITS FOR RE-USE.



FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

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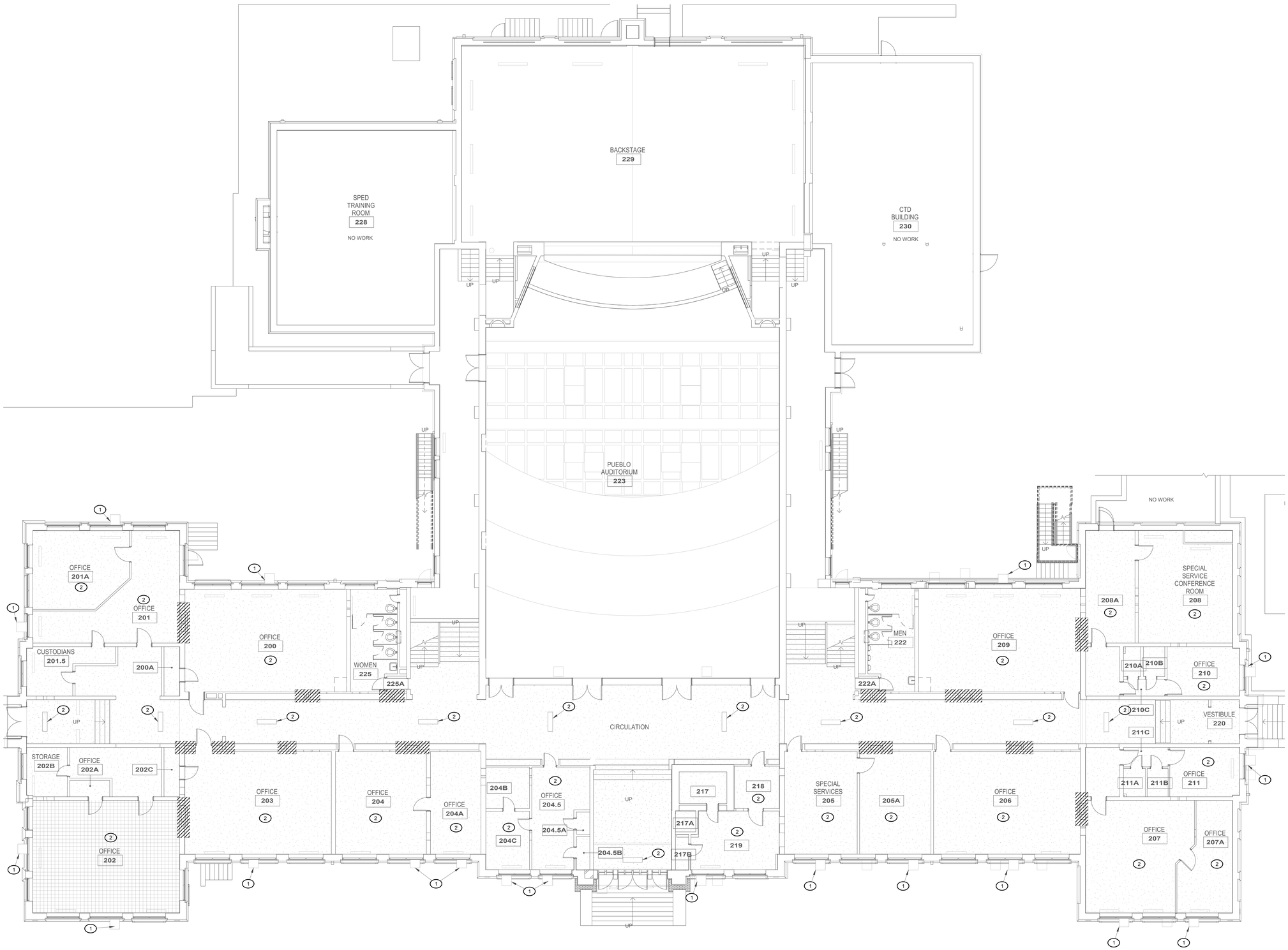
FIRST FLOOR ELECTRICAL DEMOLITION PLAN

SHEET

ED-101

KEYED NOTES

1. DISCONNECT/REMOVE EXISTING ELECTRICAL SERVING MECHANICAL EQUIPMENT SCHEDULED FOR REMOVAL.
2. REMOVE EXISTING LIGHT FIXTURE(S) AND REPLACE WITH NEW FIXTURES AS SCHEDULED. SAFEGUARD EXISTING LIGHTING CIRCUITS FOR RE-USE.



SECOND FLOOR ELECTRICAL DEMOLITION PLAN

1/8" = 1'-0"

0' 4' 8' 16' 32'

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SECOND FLOOR ELECTRICAL DEMOLITION PLAN

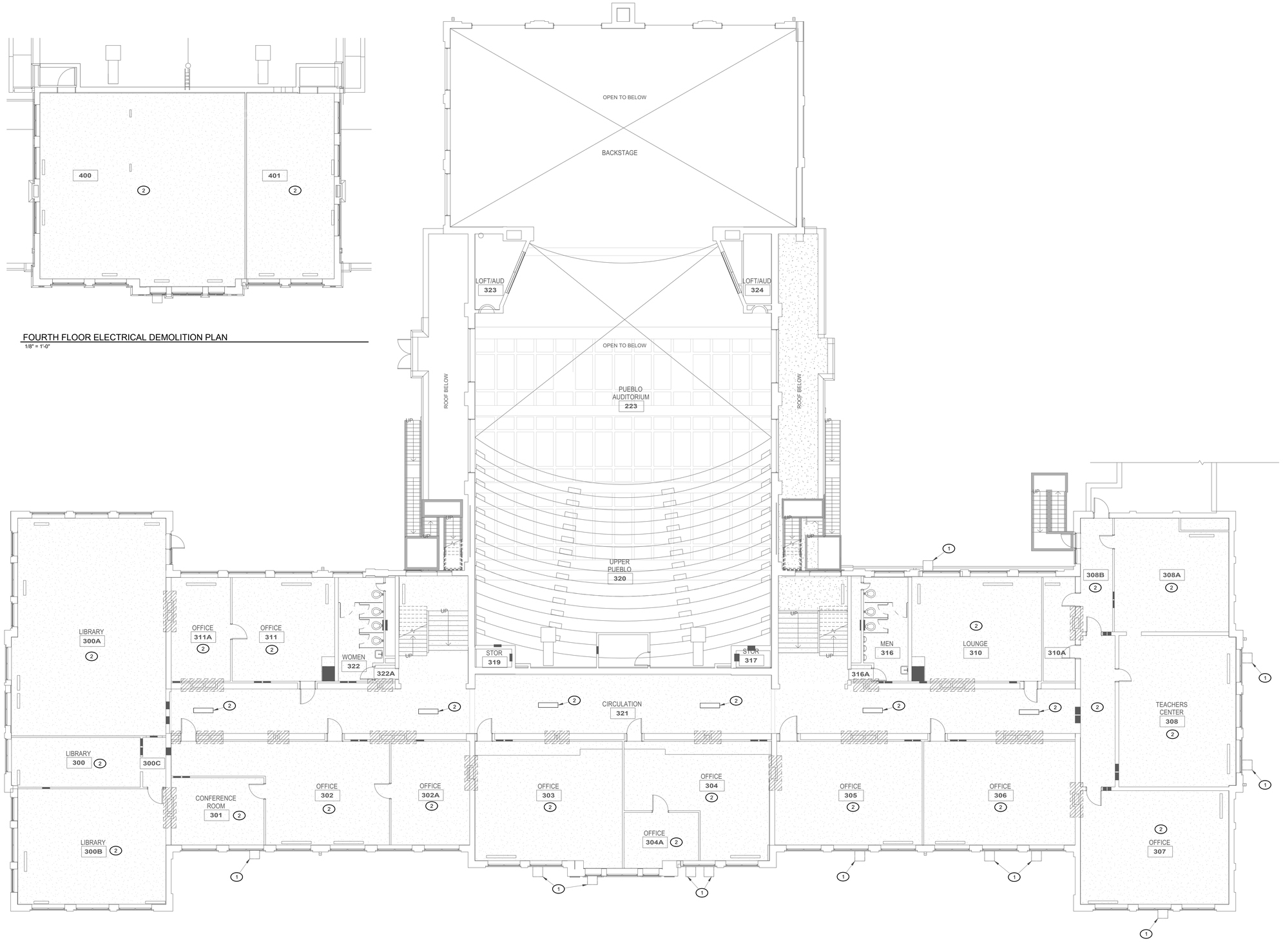
SHEET

ED-102

KEYED NOTES

1. DISCONNECT/REMOVE EXISTING ELECTRICAL SERVING MECHANICAL EQUIPMENT SCHEDULED FOR REMOVAL.
2. REMOVE EXISTING LIGHT FIXTURE(S) AND REPLACE WITH NEW FIXTURES AS SCHEDULED. SAFEGUARD EXISTING LIGHTING CIRCUITS FOR RE-USE.

FOURTH FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"



THIRD FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

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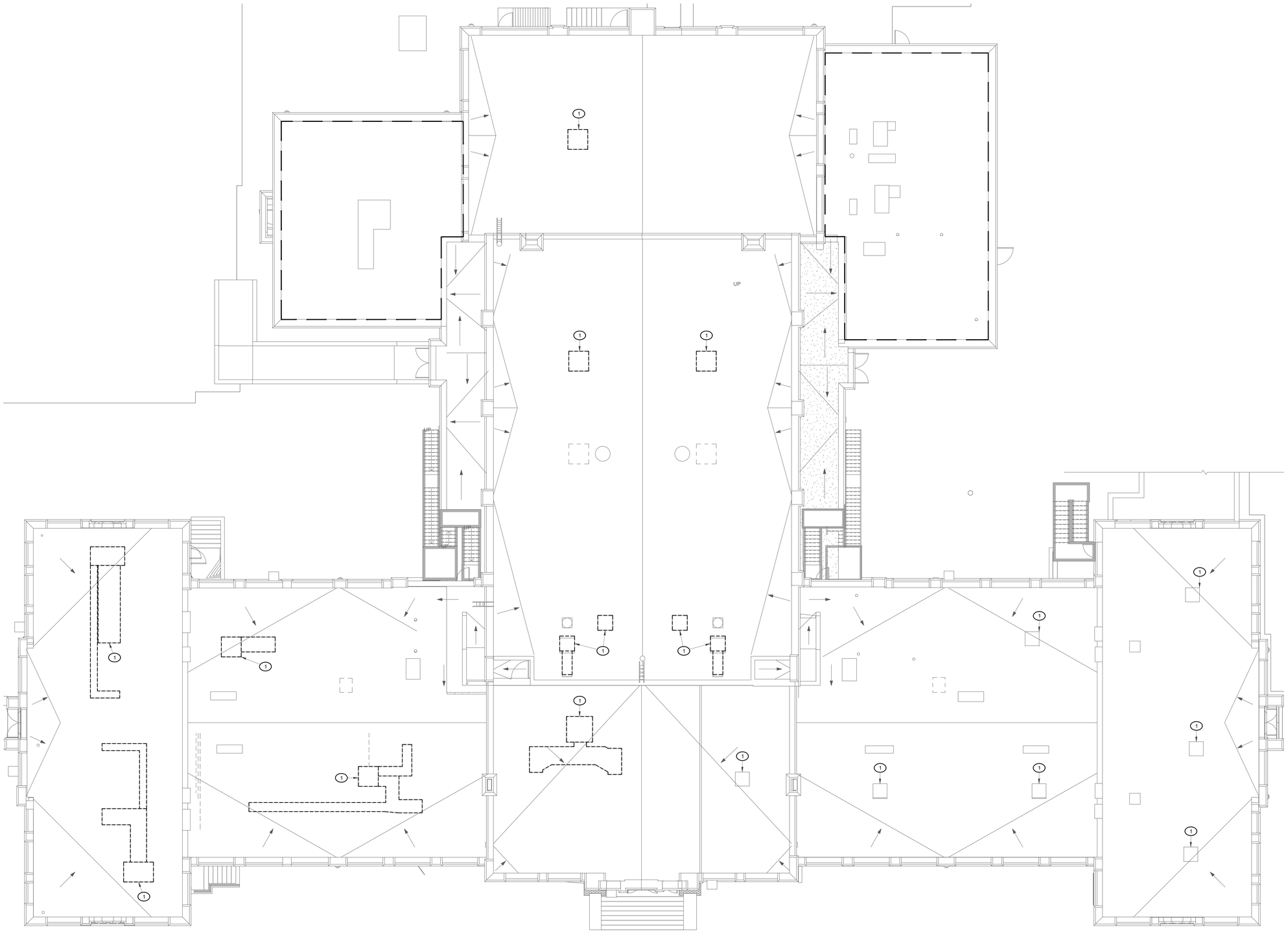
THIRD & FOURTH FLOOR ELECTRICAL DEMOLITION PLAN

SHEET
ED-103

KEYED NOTES

1. DISCONNECT/REMOVE EXISTING ELECTRICAL SERVING MECHANICAL EQUIPMENT SCHEDULED FOR REMOVAL.



ROOF ELECTRICAL DEMOLITION PLAN

1/8" = 1'-0"

0' 4' 8' 16' 32'

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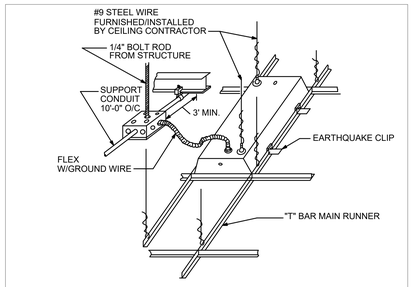
ROOF ELECTRICAL DEMOLITION PLAN

SHEET

ED-104



LAY-IN LED FIXTURE MOUNTING DETAIL

SCALE: NONE

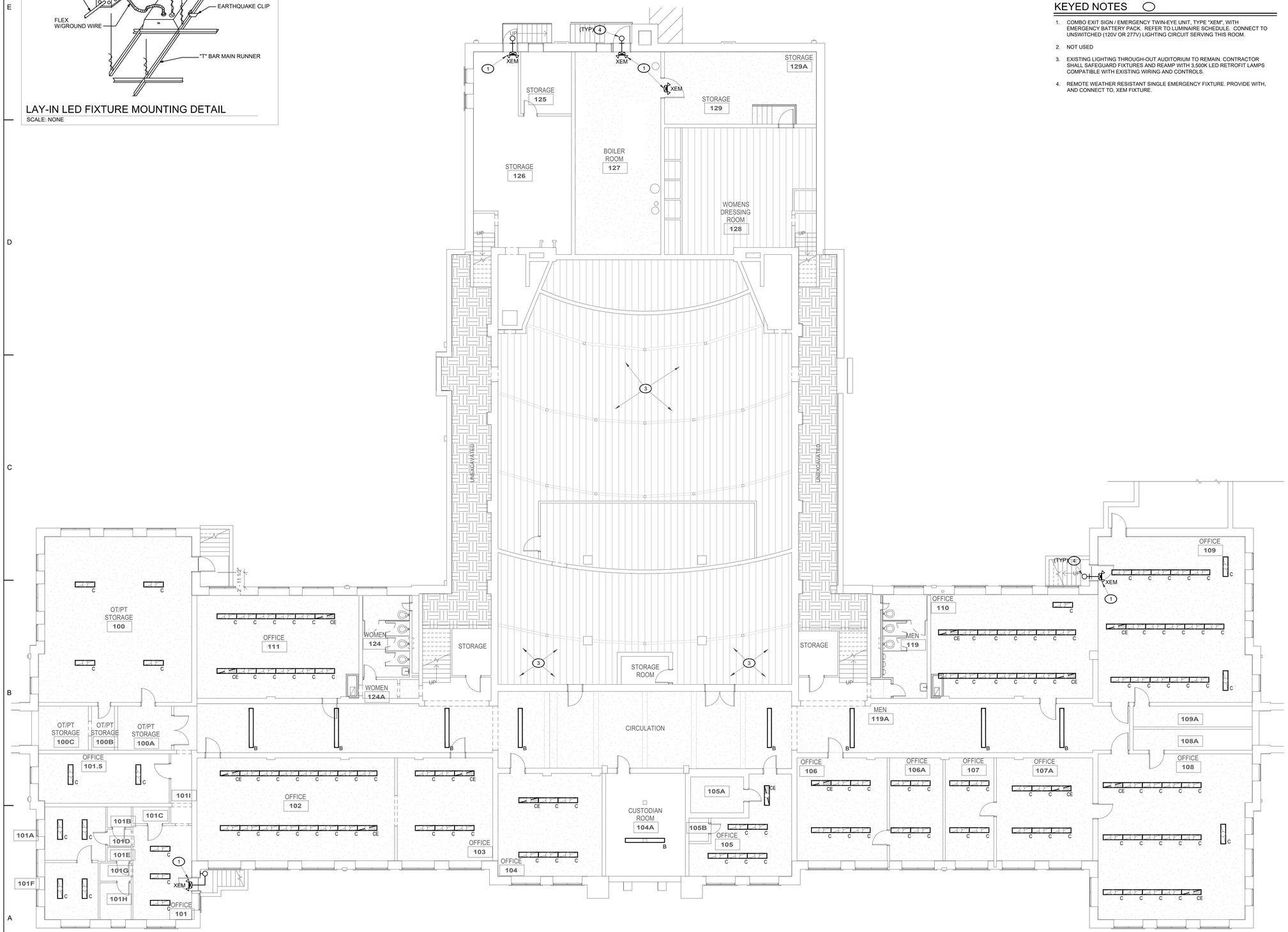
GENERAL LIGHTING NOTES

A. ALL EXISTING LIGHTING CIRCUITS ARE TO REMAIN. CONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUIT(S) SERVING EACH AREA. EXISTING SWITCHING AND CONTROL(S) TO BE REUSED U.N.O.

B. ALL EXISTING LIGHT FIXTURES SHALL REMAIN U.N.O.

KEYED NOTES

1. COMBO EXIT SIGN / EMERGENCY TWIN-EYE UNIT, TYPE "XEM", WITH EMERGENCY BATTERY PACK. REFER TO LUMINAIRE SCHEDULE. CONNECT TO UNSWITCHED (120V OR 277V) LIGHTING CIRCUIT SERVING THIS ROOM.
2. NOT USED
3. EXISTING LIGHTING THROUGH-OUT AUDITORIUM TO REMAIN. CONTRACTOR SHALL SAFEGUARD FIXTURES AND REAMP WITH 3,500K LED RETROFIT LAMPS COMPATIBLE WITH EXISTING WIRING AND CONTROLS.
4. REMOTE WEATHER RESISTANT SINGLE EMERGENCY FIXTURE. PROVIDE WITH, AND CONNECT TO, XEM FIXTURE.



FIRST FLOOR LIGHTING PLAN

1/8" = 1'-0"

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SHEET TITLE

FIRST FLOOR LIGHTING PLAN

SHEET

E-101

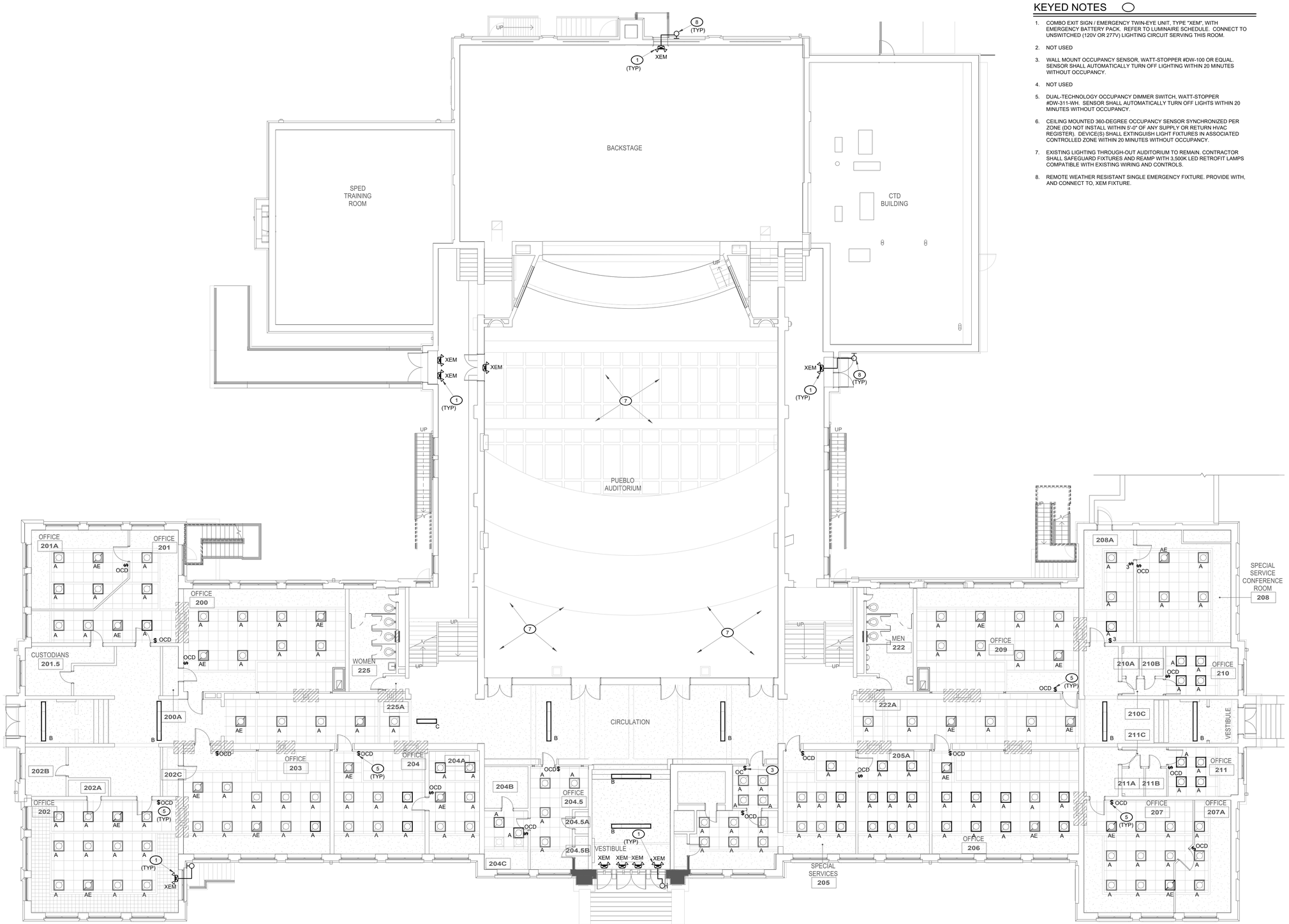
GENERAL LIGHTING NOTES

A. ALL EXISTING LIGHTING CIRCUITS ARE TO REMAIN. CONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUIT(S) SERVING EACH AREA. EXISTING SWITCHING AND CONTROL(S) TO BE REUSED U.N.O.

B. ALL EXISTING LIGHT FIXTURES SHALL REMAIN U.N.O.

KEYED NOTES

1. COMBO EXIT SIGN / EMERGENCY TWIN-EYE UNIT, TYPE "XEM", WITH EMERGENCY BATTERY PACK. REFER TO LUMINAIRE SCHEDULE. CONNECT TO UNSWITCHED (120V OR 277V) LIGHTING CIRCUIT SERVING THIS ROOM.
2. NOT USED
3. WALL MOUNT OCCUPANCY SENSOR, WATT-STOPPER #DW-100 OR EQUAL. SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTING WITHIN 20 MINUTES WITHOUT OCCUPANCY.
4. NOT USED
5. DUAL-TECHNOLOGY OCCUPANCY DIMMER SWITCH, WATT-STOPPER #DW-311-WH. SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES WITHOUT OCCUPANCY.
6. CEILING MOUNTED 360-DEGREE OCCUPANCY SENSOR SYNCHRONIZED PER ZONE (DO NOT INSTALL WITHIN 5'-0" OF ANY SUPPLY OR RETURN HVAC REGISTER). DEVICE(S) SHALL EXTINGUISH LIGHT FIXTURES IN ASSOCIATED CONTROLLED ZONE WITHIN 20 MINUTES WITHOUT OCCUPANCY.
7. EXISTING LIGHTING THROUGH-OUT AUDITORIUM TO REMAIN. CONTRACTOR SHALL SAFEGUARD FIXTURES AND REAMP WITH 3,500K LED RETROFIT LAMPS COMPATIBLE WITH EXISTING WIRING AND CONTROLS.
8. REMOTE WEATHER RESISTANT SINGLE EMERGENCY FIXTURE. PROVIDE WITH, AND CONNECT TO, XEM FIXTURE.



SECOND FLOOR LIGHTING PLAN
1/8" = 1'-0"

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SHEET TITLE
SECOND FLOOR LIGHTING PLAN

SHEET
E-102

GENERAL LIGHTING NOTES

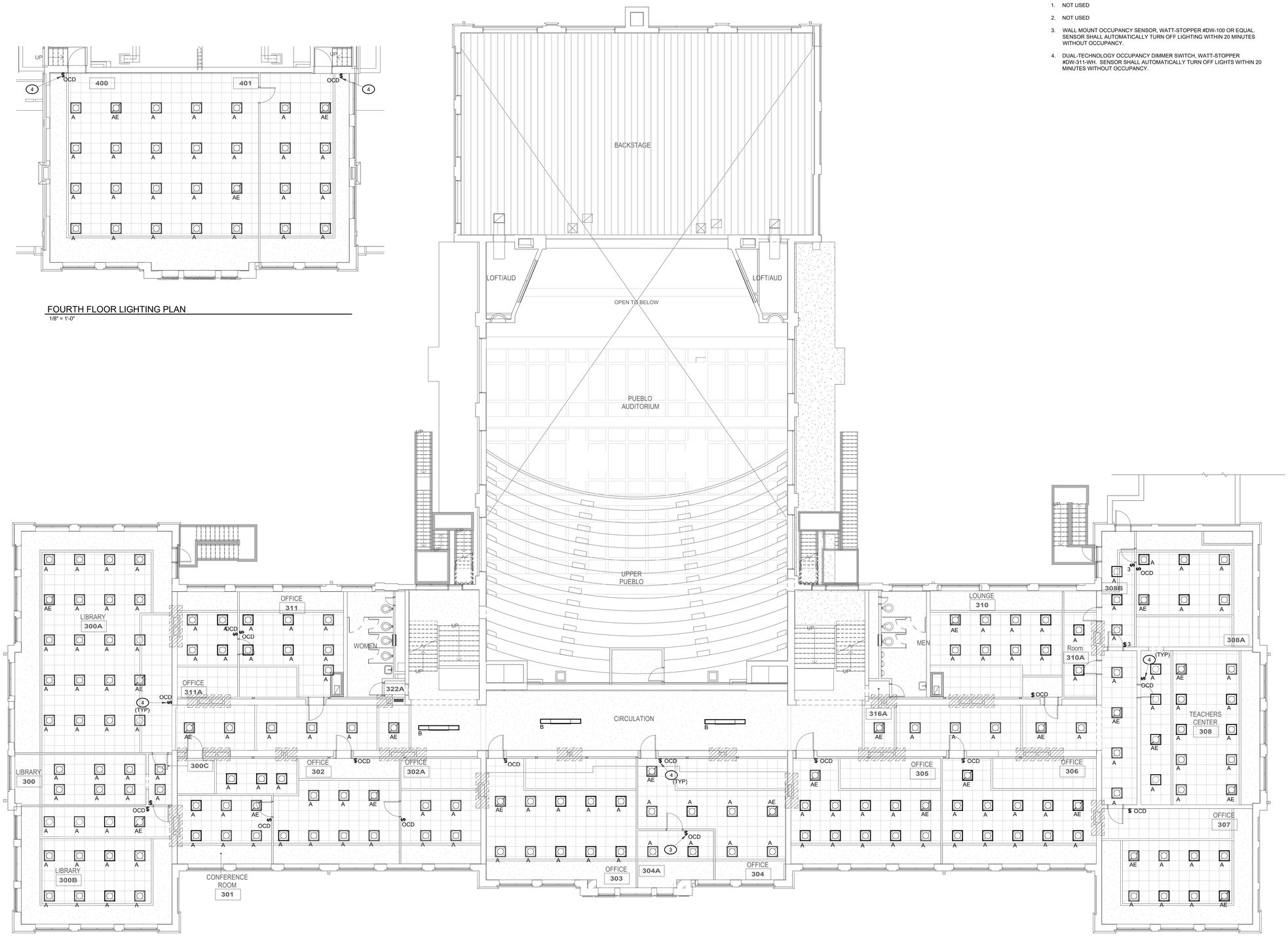
A. ALL EXISTING LIGHTING CIRCUITS ARE TO REMAIN. CONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUIT(S) SERVING EACH AREA. EXISTING SWITCHING AND CONTROL(S) TO BE REUSED U.N.O.

B. ALL EXISTING LIGHT FIXTURES SHALL REMAIN U.N.O.

KEYED NOTES

1. NOT USED
2. NOT USED
3. WALL MOUNT OCCUPANCY SENSOR, WATT-STOPPER #DW-100 OR EQUAL. SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTING WITHIN 20 MINUTES WITHOUT OCCUPANCY.
4. DUAL-TECHNOLOGY OCCUPANCY DIMMER SWITCH, WATT-STOPPER #DW-311-WH. SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES WITHOUT OCCUPANCY.

FOURTH FLOOR LIGHTING PLAN
1/8" = 1'-0"



THIRD & FOURTH FLOOR LIGHTING PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

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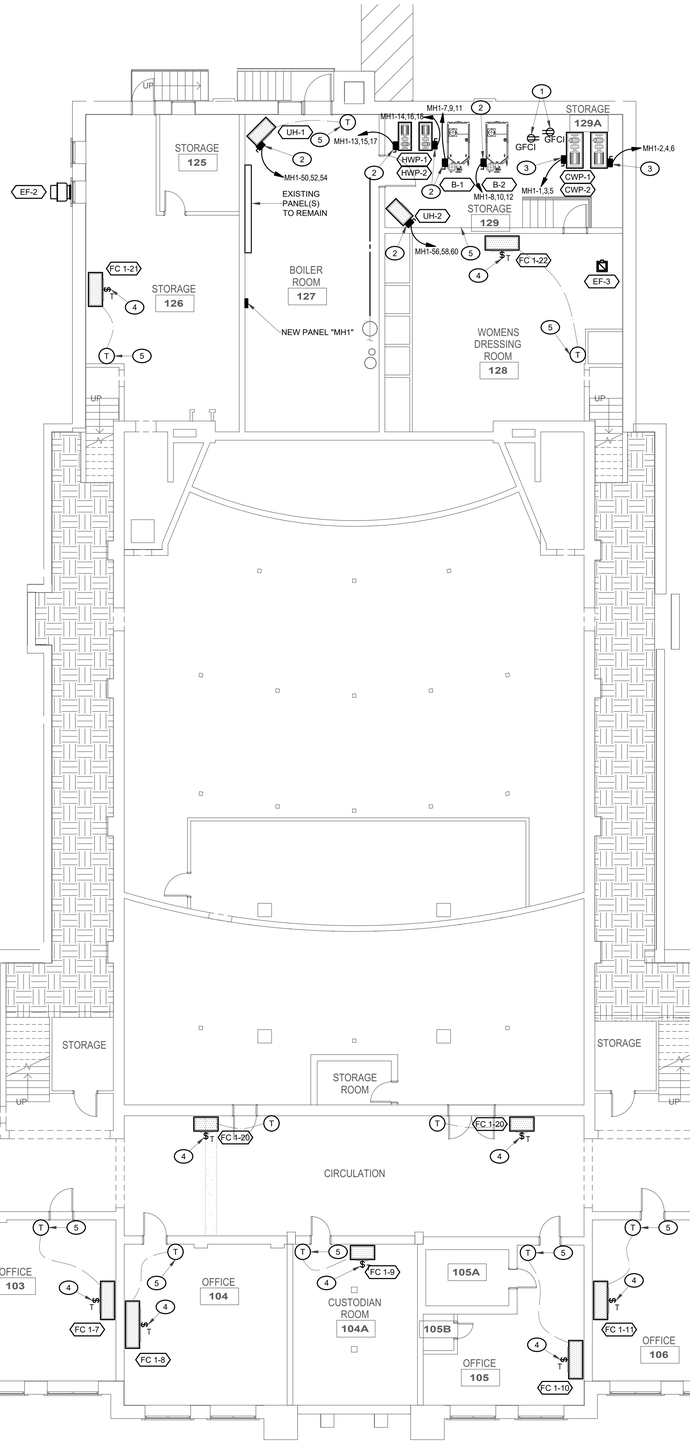
THIRD & FOURTH FLOOR LIGHTING PLAN

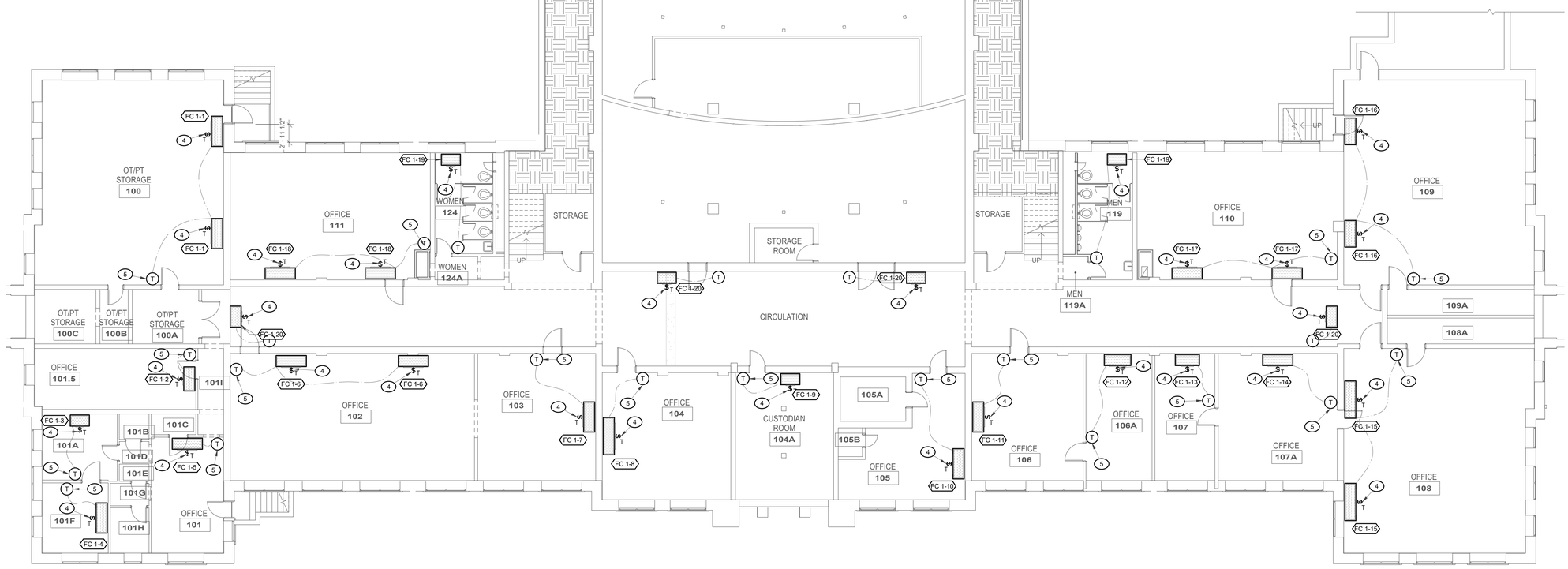
SHEET

E-103

KEYED NOTES

1. GFCI RECEPTACLE MOUNTED ADJACENT TO, MECHANICAL UNIT INSTALLED IN A MANNER THAT DOES NOT IMPEDE ACCESS REQUIRED FOR ROUTINE MECHANICAL MAINTENANCE. CONNECT TO EXISTING SPARE CIRCUIT IN 120VOLT PANEL SERVING THIS SPACE.
2. 30-AMP, 600-VOLT, 3-PHASE, FSS, DISCONNECT IN NEMA-3R ENCLOSURE MOUNTED ON, OR ADJACENT TO, MECHANICAL UNIT IN A MANNER THAT DOES NOT IMPEDE ACCESS REQUIRED FOR ROUTINE MECHANICAL MAINTENANCE. EXTEND .75" CONDUIT WITH 3 #10 CU AND 1 #10 CU EGR TO CIRCUIT INDICATED AND PROVIDE FUSES IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE.
3. 60-AMP, 600-VOLT, 3-PHASE, FSS DISCONNECT IN NEMA-3R ENCLOSURE MOUNTED ON, OR ADJACENT TO, MECHANICAL REQUIRED FOR ROUTING MECHANICAL MAINTENANCE. EXTEND .75" CONDUIT WITH 3 #8 CU AND 1 #10 CU EGR TO CIRCUIT INDICATED AND PROVIDE FUSES IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE.
4. SINGLE POLE 20-AMP THERMAL SWITCH INSTALLED ON, OR ADJACENT TO, FAN COIL. EXTEND #12 CU CONDUCTORS TO CIRCUIT INDICATED IN PANEL SCHEDULE.
5. .75" BUSHED CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR T-STAT CONTROL WIRING INSTALLED BY MECHANICAL.





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

0' 4' 8' 16' 32'

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PROFESSIONAL ENGINEER

PROJECT
AESC HVAC UPGRADES

OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION
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Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JT
Checked By	FS

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MCCLAIN + YU ARCHITECTURE AND DESIGN

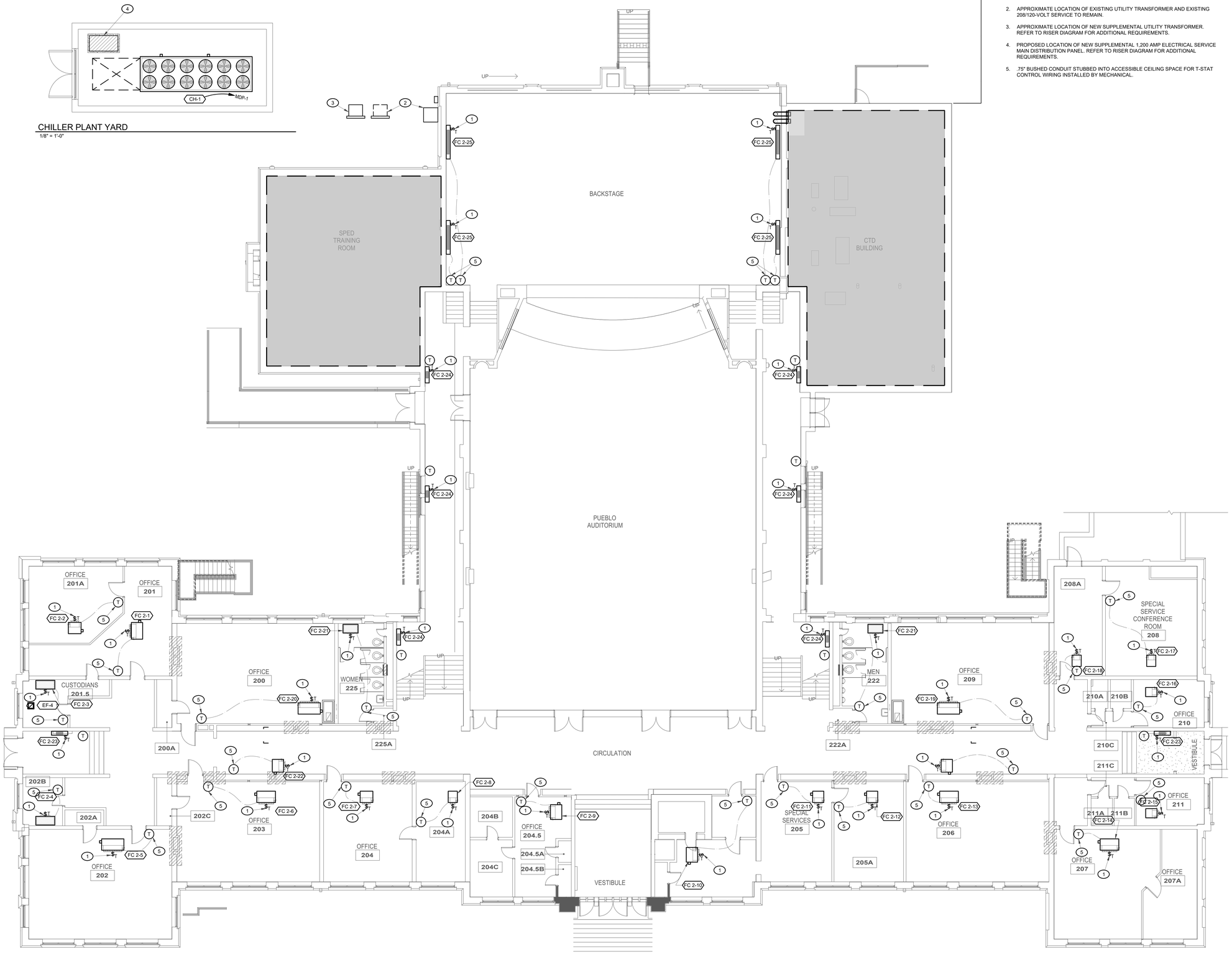
SHEET TITLE
FIRST FLOOR POWER PLAN

SHEET
E-201

CHILLER PLANT YARD
1/8" = 1'-0"

KEYED NOTES

1. SINGLE POLE 20-AMP THERMAL SWITCH INSTALLED ON, OR ADJACENT TO, FAN COIL. EXTEND #12 CU CONDUCTORS TO CIRCUIT IN PANEL SCHEDULE.
2. APPROXIMATE LOCATION OF EXISTING UTILITY TRANSFORMER AND EXISTING 208/120-VOLT SERVICE TO REMAIN.
3. APPROXIMATE LOCATION OF NEW SUPPLEMENTAL UTILITY TRANSFORMER. REFER TO RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
4. PROPOSED LOCATION OF NEW SUPPLEMENTAL 1,200 AMP ELECTRICAL SERVICE MAIN DISTRIBUTION PANEL. REFER TO RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
5. .75" BUSHED CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR T-STAT CONTROL WIRING INSTALLED BY MECHANICAL.



SECOND FLOOR POWER PLAN
1/8" = 1'-0"

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1/16/2023
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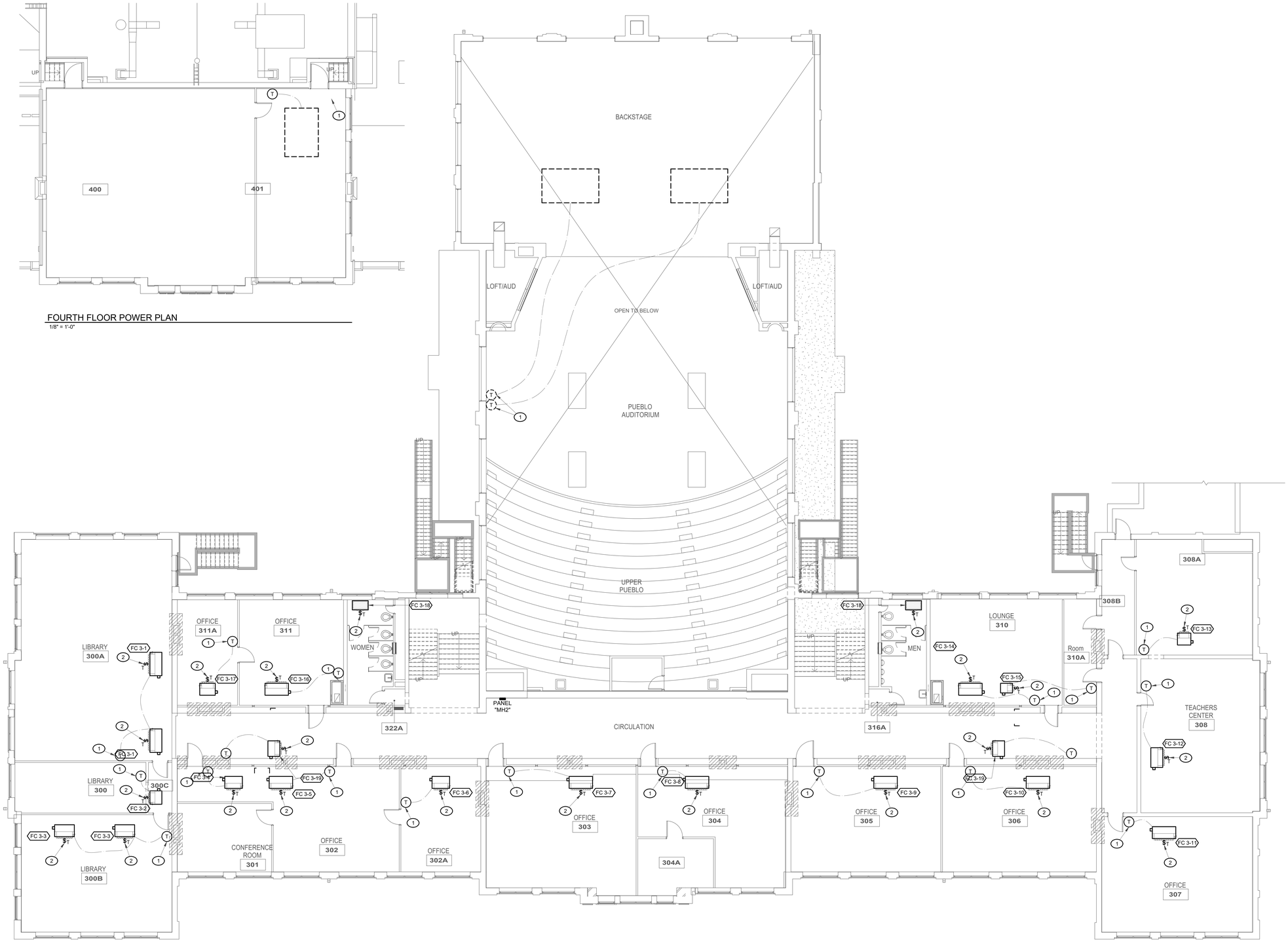
SHEET TITLE
SECOND FLOOR POWER PLAN

SHEET
E-202

KEYED NOTES

1. .75" BUSHED CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR T-STAT CONTROL WIRING INSTALLED BY MECHANICAL.
2. SINGLE POLE 20-AMP THERMAL SWITCH INSTALLED ON, OR ADJACENT TO, FAN COIL. EXTEND #12 CU CONDUCTORS TO CIRCUIT INDICATED IN PANEL SCHEDULE.

FOURTH FLOOR POWER PLAN
1/8" = 1'-0"



THIRD & FOURTH FLOOR POWER PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

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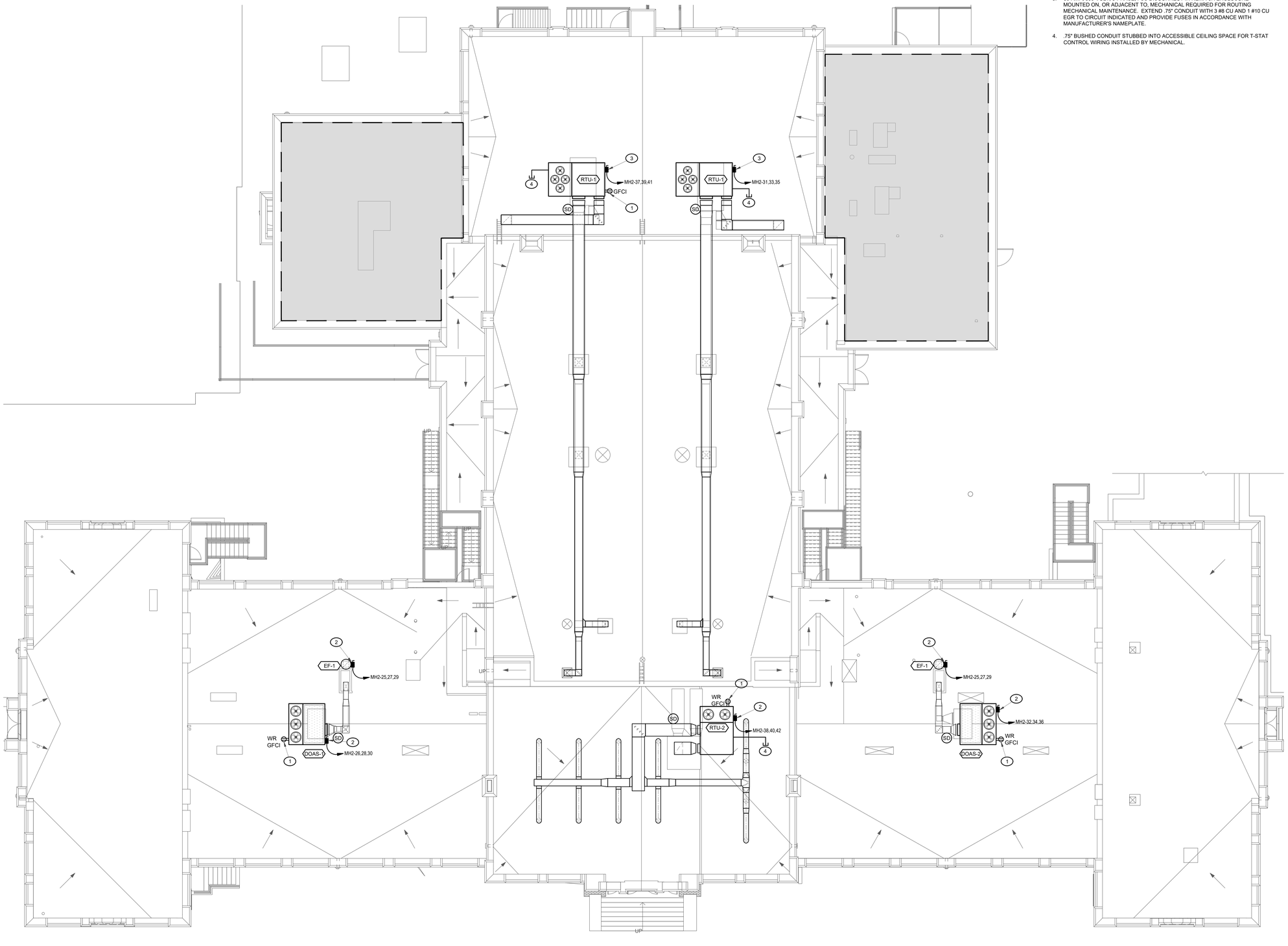
SHEET TITLE
THIRD & FOURTH FLOOR POWER PLAN

SHEET
E-203



KEYED NOTES

1. GFCI RECEPTACLE MOUNTED ADJACENT TO, MECHANICAL UNIT INSTALLED IN A MANNER THAT DOES NOT IMPEDE ACCESS REQUIRED FOR ROUTINE MECHANICAL MAINTENANCE. CONNECT TO EXISTING SPARE CIRCUIT IN 120VOLT PANEL SERVING THIS SPACE.
2. 30-AMP, 600-VOLT, 3-PHASE, FSS, DISCONNECT IN NEMA-3R ENCLOSURE MOUNTED ON, OR ADJACENT TO, MECHANICAL UNIT IN A MANNER THAT DOES NOT IMPEDE ACCESS REQUIRED FOR ROUTINE MECHANICAL MAINTENANCE. EXTEND .75" CONDUIT WITH 3 #10 CU AND 1 #10 CU EGR TO CIRCUIT INDICATED AND PROVIDE FUSES IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE.
3. 60-AMP, 600-VOLT, 3-PHASE, FSS DISCONNECT IN NEMA-3R ENCLOSURE MOUNTED ON, OR ADJACENT TO, MECHANICAL REQUIRED FOR ROUTING MECHANICAL MAINTENANCE. EXTEND .75" CONDUIT WITH 3 #8 CU AND 1 #10 CU EGR TO CIRCUIT INDICATED AND PROVIDE FUSES IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE.
4. .75" BUSHED CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR T-STAT CONTROL WIRING INSTALLED BY MECHANICAL.

POWER ROOF PLAN
1/8" = 1'-0"

0' 4' 8' 16' 32'

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SHEET TITLE
ROOF POWER PLAN

SHEET
E-204

SERVICE GROUNDING SYSTEM GENERAL NOTES

A. ALL CONDUCTORS USED FOR THE GROUNDING SYSTEM SHALL BE COPPER.

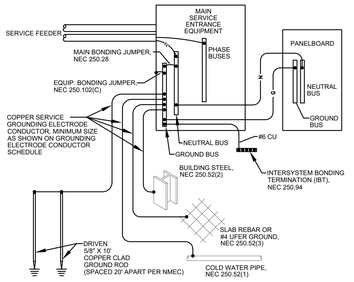
B. CONNECT THE GROUNDING SYSTEM TO THE FOUR FOLLOWING COMPONENTS:
1. BUILDING STEEL.
2. METAL U.G. COLD WATER PIPE.
3. CONCRETE ENCASED REBAR OR #4 COPPER UFER.
4. 10' GROUND RODS.

C. ANY SPLICING SHALL BE VIA IRREVERSIBLE COMPRESSION TYPE.

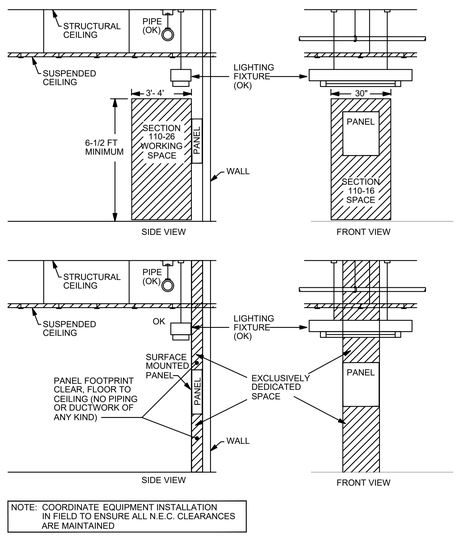
D. THE GROUNDING SYSTEM SHALL COMPLY WITH ALL REQUIREMENTS OF ARTICLE 250 OF THE NEC, AND SHALL PROVIDE 25 OHMS OR LESS RESISTANCE TO GROUND. PROVIDE TEST REPORT VERIFYING RESISTANCE LEVEL IS IN COMPLIANCE WITH 25 OHM MAXIMUM.

GROUNDING ELECTRODE CONDUCTOR SCHEDULE

SERVICE AMPACITY	EQUIV. CU WIRE SIZE	MAIN BONDING JUMPER	EQUIPMENT BONDING JUMPER	METALLIC PIPE CONDUCTOR	BUILDING STEEL CONDUCTOR	REBAR OR UFER CONDUCTOR	GROUND ROD CONDUCTOR
100A	#2	#8	#8	#8	#8	#8	#8
150A	#1/0	#6	#6	#6	#6	#6	#6
200A	#3/0	#4	#4	#4	#4	#4	#4
225A	#4/0	#2	#2	#2	#2	#2	#2
400A	500	#1/0	#1/0	#1/0	#1/0	#1/0	#1/0
600A	700	#2/0	#2/0	#2/0	#2/0	#2/0	#2/0
800A	(2) X 500	#3/0	#3/0	#2/0	#2/0	#2/0	#2/0
1000A	(3) X 400	#3/0	#3/0	#3/0	#3/0	#3/0	#3/0
1200A	(4) X 350	250KCMIL	250KCMIL	#3/0	#3/0	#3/0	#3/0
1600A	(5) X 400	350KCMIL	350KCMIL	#3/0	#3/0	#3/0	#3/0
2000A	(6) X 400	400KCMIL	400KCMIL	#3/0	#3/0	#3/0	#3/0

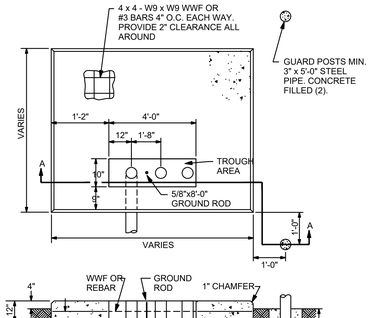


SERVICE GROUNDING SYSTEM DIAGRAM
SCALE: NONE



NOTE: COORDINATE EQUIPMENT INSTALLATION IN FIELD TO ENSURE ALL N.E.C. CLEARANCES ARE MAINTAINED

POWER PANEL CLEARANCE DIAGRAM
SCALE: NONE



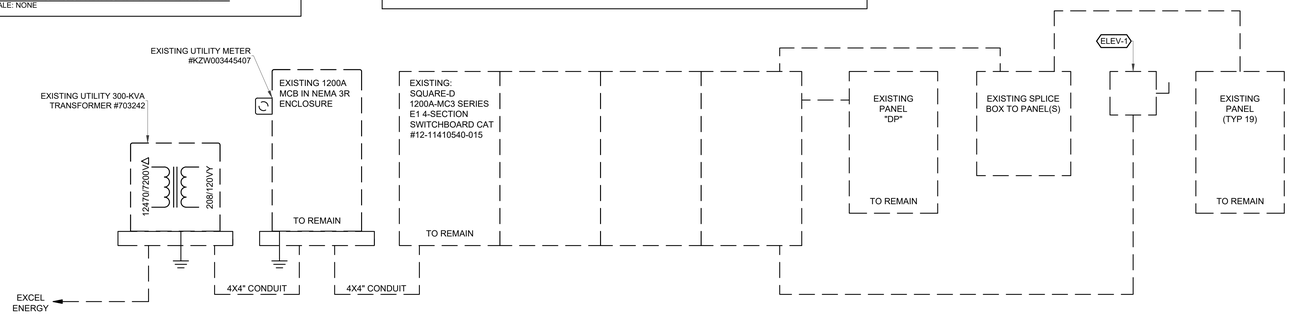
SECTION AA

NOTES
1. NO CONCRETE IN TROUGH AREA.
2. BRING CONDUITS UP FLUSH WITH PAD.
3. PAD SHALL BE 3000 PSI CONCRETE, LEVELED AND SMOOTH TROWELLED.

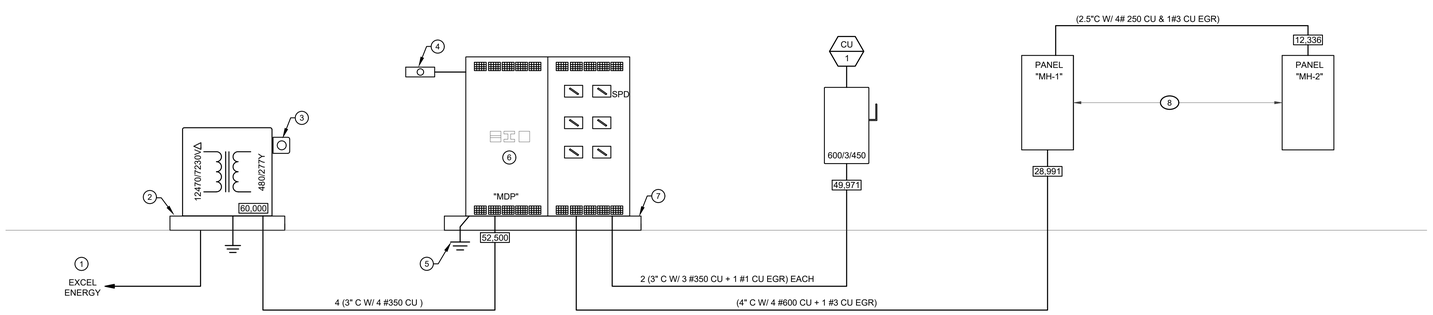
RADIAL TRANSFORMER PAD DETAIL
SCALE: NONE

KEYED NOTES

1. CONTRACTOR SHALL COORDINATE EXACT PROJECT SPECIFIC REQUIREMENTS WITH THE SERVING UTILITY ELECTRIC COMPANY. PROVIDE ALL NECESSARY EXCAVATION, BACK-FILL, BORING/JACKING, AND CONDUIT(S) TO FACILITATE THE NEW UTILITY TRANSFORMER INSTALLATION.
2. NEW UTILITY COMPANY TRANSFORMER. CONTRACTOR SHALL PROVIDE CONCRETE PAD, GROUND ROD, AND STEEL PROTECTIVE PIPE BOLLARD(S) PER UTILITY COMPANY STANDARDS.
3. BUSHING STYLE 13-JAW METER, OR METER ENCLOSURE DICTATED BY THE SERVING UTILITY, MOUNTED ON TRANSFORMER.
4. REMOTE SHUNT-TRIP MAIN DISCONNECT WITH PLACARD INSTALLED FOR COMPLIANCE WITH NMAC 14.10.4 ARTICLE 230.70.
5. NEW SERVICE GROUNDING IN ACCORDANCE WITH NEC 2017 ARTICLE 250. REFER TO GROUNDING DETAIL FOR REQUIREMENTS.
6. NEW SUPPLEMENTAL MAIN SWITCHBOARD 1,200-AMP, 480Y/277-VOLT, 3-PHASE, 4-WIRE, IN NEMA-3R ENCLOSURE WITH ADJUSTABLE TRIP GFCI-SHUNT TRIP MAIN BREAKER, BRACED AT 100 KAIC WITH ENERGY REDUCTION MAINTENANCE BY-PASS. REFER TO PANEL SCHEDULE FOR ADDITIONAL REQUIREMENTS.
7. CAST-IN-PLACE CONCRETE EQUIPMENT PAD DEIGNED BY STRUCTURAL ENGINEER. SIZED AS REQUIRED. DO NOT EXTEND CONCRETE PAD MORE THAN 4" BEYOND THE ELECTRICAL EQUIPMENT SERVED.
8. NEW PANELBOARD. REFER TO SCHEDULE FOR ADDITIONAL REQUIREMENTS.



EXISTING RISER DIAGRAM (EXISTING TO REMAIN) SHOWN FOR REFERENCE
NTS



NEW SUPPLEMENTAL RISER DIAGRAM (DEDICATED TO MECHANICAL SYSTEM)
NTS

NEW SERVICE SIZING CALCULATIONS

SERVICE CHARACTERISTICS:
480Y/277 VOLT, 3-PHASE, 4-WIRE, 60HZ

CONNECTED LOADS: 540.6 kVA (651.3 AMPS)

RECOMMENDED SERVICE TRANSFORMER TO BE SIZED AT 500 kVA

SHORT-CIRCUIT CALCULATIONS

MAXIMUM FAULT CURRENT
AT TRANSFORMER SECONDARY: USE 60,000A PER UTILITY STANDARDS.

ALL PANELS SHALL HAVE A.I.C. AS SCHEDULED.

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SHEET TITLE
RISER DIAGRAM

SHEET
E-600

PANEL: "MDP" | VOLTAGE: 480/277V | MAINS: 1,200A MCB GF | WIRING: 3 PHASE, 4-W
LOCATION: CHILLER YARD | MOUNTING: SURFACE | DEVICE FAMILY: BOLT-ON | ENCLOSURE: NEMA R
FED FROM: UTILITY XIMR | FEED: BOTTOM | O.C. DEVICE: CIRCUIT BREAKER | AIC: 100,000

BKR SIZE	NOTES	DESCRIPTION	CODE	LOAD (VA)	CKT NO.	PHASE A	PHASE B	PHASE C	CKT NO.	LOAD (VA)	CODE	DESCRIPTION	NOTES	BKR SIZE
450A-3P	ADJ TRIP	CHILLER #1		93237		185050				91813				
			MEC	93237	1		180060		2	86823	MEC	PANEL "MH1"	ADJ TRIP	400A-3P
				93237				175391		82154				
450A-3P	ADJ TRIP	SPARE												
					3				4			SPARE	ADJ TRIP	400A-3P
250A-3P		PROV												
					5				6			PROV		200A-3P

	KVA	AMPS	PHASE TOTALS:	VA	AMPS
			PHASE A:	185050	668.1
			PHASE B:	180060	650.0
TOTAL	540.5	650.4	PHASE C:	175391	633.2

NOTES: 01-2023
1.) MAIN DISTRIBUTION PANEL.
2.) NEUTRAL BAR, GROUND BAR.
3.) PROVIDE ENERGY REDUCTION BY-PASS

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	Volts	Phase	LOAD HP	LOAD FLA	LOAD MCA	LOAD MOCP	Termination	Notes
CH-1	AIR COOLED CHILLER	480	3			337.0	450.0		1
FC-1-1 - FC3-19	FAN COILS	277	1		1.3-3.4		20.0		4
B-1,B-2	GAS FIRED BOILER	480	3				20.0		2
RTU-1	ROOF-TOP AIR CONDITIONING UNIT	480	3			45.3	50.0		2,3
RTU-2	ROOF-TOP AIR CONDITIONING UNIT	480	3			27.0	30.0		2
DOAS-1 & 2	DEDICATED OUSIDE AIR SYSTEM	480	3			14.7	20.0		2,3
CHP-1,CHP-2	CHILLED WATER PUMP	480	3	25			25.0		2
HWP-1,HWP-2	HEATING WATER PUMP	480	3	10			20.0		2
P-1,P-2	BOILER PUMP	480	3	0.75			15.0		3
UH-1,UH-2	UNIT HEATER	480	3	1.25		1.3	20.0		2
EF-1	EXHAUST FAN	480	3	0.5		1.0	20.0		2

NOTES: **(Verify all equipment voltages and amp ratings with mechanical contractor prior to rough-in.)** 01-2023
1. NEMA 3R fused disconnect switch provided with unit. Refer to Mechanical Equipment Schedule.
2. Provide fused disconnect switch, NEMA 3R if outside.
3. Provide 120V GFCI, WP duplex receptacle adjacent to unit.
4. Provide thermal switch.
5. Provide NEMA 3R combination starter / disconnect switch.

PANEL: "MH-1" | VOLTAGE: 480/277V | MAINS: 400A MLO | WIRING: 3 PHASE, 4-W
LOCATION: ELECTRICAL ROOM 127 | MOUNTING: SURFACE | DEVICE FAMILY: BOLT-ON | ENCLOSURE: NEMA 1
FED FROM: MDP | FEED: TOP | O.C. DEVICE: CIRCUIT BREAKER | AIC: 42,000

BKR SIZE	NOTES	DESCRIPTION	CODE	LOAD (VA)	CKT NO.	PHASE A	PHASE B	PHASE C	CKT NO.	LOAD (VA)	CODE	DESCRIPTION	NOTES	BKR SIZE
35A-3P		CWP-1	MEC	7769	1	15538			2	7769	MEC	CWP-2		35A-3P
-				7769	3		15538		4	7769				-
-				7769	5			15538	6	7769				-
20A-3P		HWP-1	MEC	3107	7	6214			8	3107	MEC	HWP-2		20A-3P
-				3107	9		6214		10	3107				-
-				3107	11			6214	12	3107				-
15A-3P		P-1	MEC	415	13	830			14	415	MEC	P-2		15A-3P
-				415	15		830		16	415				-
				415	17			830	18	415				-
20A-1P	FC1-1 - FC1-8	FAN COILS	MEC	2880	19	5706			20	2826	MEC	FAN COILS	FC2-1 - FC2-2	20A-1P
20A-1P	FC1-9 - FC1-15	FAN COILS	MEC	2880	21		6616		22	3736	MEC	FAN COILS	FC2-3 - FC2-5	20A-1P
20A-1P	FC1-16 - FC1-19	FAN COILS	MEC	2880	23			5706	24	2826	MEC	FAN COILS	FC2-6 - FC2-7	20A-1P
20A-1P	FC1-20 - FC1-22	FAN COILS	MEC	2161	25	4987			26	2826	MEC	FAN COILS	FC2-8 - FC2-9	20A-1P
20A-1P		SPARE			27		2826		28	2826	MEC	FAN COILS	FC2-10 - FC2-11	20A-1P
20A-1P		SPARE			29			2826	30	2826	MEC	FAN COILS	FC2-12 - FC2-13	20A-1P
20A-1P		SPARE			31	2826			32	2826	MEC	FAN COILS	FC2-14 - FC2-15	20A-1P
20A-1P		SPARE			33		2826		34	2826	MEC	FAN COILS	FC2-16 - FC2-18	20A-1P
20A-1P		SPARE			35			3736	36	3736	MEC	FAN COILS	FC2-19 - FC2-20	20A-1P
20A-1P		SPARE			37	2466			38	2466	MEC	FAN COILS	FC2-21,22,23,24,25	20A-1P
20A-1P		SPARE			39				40			SPARE		20A-1P
20A-1P		SPARE			41				42			SPARE		20A-1P
20A-1P		SPARE			43				44			SPARE		20A-1P
20A-1P		SPARE			45				46			SPARE		20A-1P
20A-1P		SPARE			47				48			SPARE		20A-1P
20A-1P		SPARE			49	373			50	373	MEC	UH-1		20A-3P
20A-1P		SPARE			51		373		52	373				-
20A-1P		SPARE			53			373	54	373				-
225A-3P		PANEL MH2	MEC	53,743	55	54116			56	373	MEC	UH-2		20A-3P
-				52,470	57		52843		58	373				-
-				47,801	59			48174	60	373				-

	KVA	AMPS	PHASE TOTALS:	VA	AMPS
			PHASE A:	93056	775.5
			PHASE B:	88056	733.9
TOTAL	264.5	318.3	PHASE C:	83397	695.0

NOTES: 01-2023
1.) PROVIDE GROUND BAR, NEUTRAL BAR, DOOR-IN-DOOR TRIM.
2.) 60 TOTAL POLES.

PANEL: "MH2" | VOLTAGE: 480/277V | MAINS: 225A MLO | WIRING: 3 PHASE, 4-W
LOCATION: 3RD FLOOR CIRCULATION HALL | MOUNTING: SURFACE | DEVICE FAMILY: BOLT-ON | ENCLOSURE: NEMA 1
FED FROM: PANEL MH1 | FEED: TOP | O.C. DEVICE: CIRCUIT BREAKER | AIC: 14,000

BKR SIZE	NOTES	DESCRIPTION	CODE	LOAD (VA)	CKT NO.	PHASE A	PHASE B	PHASE C	CKT NO.	LOAD (VA)	CODE	DESCRIPTION	NOTES	BKR SIZE
20A-1P	FC3-1 -- FC32	FAN COILS	MEC	2826	1	6593			2	3767	MEC	FANCOILS	FC3-11 -- FC3-12	20A-1P
20A-1P	FC3-3 -- FC3-4	FAN COILS	MEC	2826	3		5652		4	2826	MEC	FANCOILS	FC3-13 -- FC3-14	20A-1P
20A-1P	FC3-5 -- FC3-6	FAN COILS	MEC	3767	5			6634	6	2867	MEC	FANCOILS	FC3-15 -- FC3'16	20A-1P
20A-1P	FC3-7 -- FC3-8	FAN COILS	MEC	3767	7	5983			8	2216	MEC	FANCOILS	FC3-17 -- FC3-18	20A-1P
20A-1P	FC3-9 -- FC3-10	FAN COILS	MEC	3767	9		5651		10	1884	MEC	FANCOILS	FC3-19	20A-1P
20A-1P		SPARE			11				12			SPARE		20A-1P
20A-1P		SPARE			13				14			SPARE		20A-1P
20A-1P		SPARE			15				16			SPARE		20A-1P
20A-1P		SPARE			17				18			SPARE		20A-1P
20A-1P		SPARE			19				20			SPARE		20A-1P
20A-1P		SPARE			21				22			SPARE		20A-1P
20A-1P		SPARE			23				24			SPARE		20A-1P
20A-3P		EF-1	MEC	497	25	4564			26	4067	MEC	DOAS-1		20A-3P
-				497	27		4564		28	4067				-
-				497	29			4564	30	4067				-
50A-3P		RTU-1(a)	MEC	12533	31	16600			32	4067	MEC	DOAS-2		20A-3P
-				12533	33		16600		34	4067				-
-				12533	35			16600	36	4067				-
50A-3P		RTU-1(b)	MEC	12533	37	20003			38	7470	MEC	RTU-2		30A-3P
-				12533	39		20003		40	7470				-
-				12533	41			20003	42	7470				-

	KVA	AMPS	PHASE TOTALS:	VA	AMPS
			PHASE A:	53743	194.0
			PHASE B:	52470	189.4
TOTAL	154.0	185.3	PHASE C:	47801	172.6

NOTES: 01-2023
1.) PROVIDE GROUND BAR, NEUTRAL BAR, DOOR-IN-DOOR TRIM.
2.) 42 TOTAL POLES.

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1/16/2023
PROFESSIONAL ENGINEER

PROJECT
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OWNER
ROSWELL INDEPENDENT SCHOOL DISTRICT

ADDRESS
300 N. KENTUCKY, ROSWELL, NM 88201

PROJECT STATUS
CONSTRUCTION DOCUMENTS

DATE	NO.	DESCRIPTION
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Date	JANUARY 20, 2023
Project Number	2022-011
Project File	
Drawn By	JT
Checked By	FS

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MCCLAIN + YU ARCHITECTURE AND DESIGN

SHEET TITLE
PANEL SCHEDULE

SHEET
E-601