

SECTION 00 91 13

ADDENDUM NUMBER 4



PARTICULARS

- 1.01 DATE: MAY 17, 2021**
- 1.02 PROJECT: RENOVATIONS TO BUCHANAN HALL PHASE II**
- 1.03 PROJECT NUMBER: DCM NO. 2021305**
- 1.04 OWNER: ALABAMA A&M UNIVERSITY**
- 1.05 ARCHITECT: NOLA | VAN PEURSEM ARCHITECTS, PC**

TO PROSPECTIVE BIDDERS

- 2.01 THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE BIDDING DOCUMENTS DATED APRIL 7, 2021, WITH AMENDMENTS AND ADDITIONS NOTED BELOW.**
- 2.02 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE PROPOSAL FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.**
- 2.03 THIS ADDENDUM CONSISTS OF 8 PAGES.**

CHANGES TO THE PROJECT MANUAL

3.01 SECTION 08 71 00 – DOOR HARDWARE:

- A. Paragraph 3.05 B: All hardware sets:
 - 1. Change all items described as “By Owner’s Access Control Provider” to read “By Access Control Contractor. See Section 26 80 00”.
 - 2. Change description of “Elec Lock-Classrm w/ Reader” to read “By Access Control Contractor. See Section 26 80 00”.

3.02 SECTION 22 42 10 – PLUMBING FIXTURES:

- A. Paragraph 2.02 revise subparagraph P-15 to read as follows: “See Hydraulic Oil Separator schedule on the drawings.”

3.03 SECTION 26 80 00 – ACCESS CONTROL SYSTEM EXPANSION:

- A. Paragraph 2.2.1: Revise this paragraph to read as follows:
 - 1. Elec Lock-Classroom w/ Reader shall be Allegion AD400-MS70 MT SPA and shall be furnished and installed by Division 26 80 00 contractor. See architectural specification section 08 71 00 for applicable locations.

- B. Paragraph 2.2.2: Add this paragraph to read as follows:
 - 2. Dedicated card reader shall be APTiQ M15. Reader shall be furnished and installed by division 26 80 00 contractor. See architectural specification section 08 71 00 for applicable locations.
- C. Paragraph 2.2.3: Add this paragraph to read as follows:
 - 3. Door position switch shall be Allegion 679-05HM and shall be furnished and installed by division 26 80 00 contractor. See architectural specification section 08 71 00 for applicable locations.

CHANGES TO THE DRAWINGS

4.01 SHEET A-2.1 – ELEVATOR SHAFT PLAN & DETAILS:

- A. Add this sheet in its entirety.

4.02 SHEET S-2.0 – STRUCTURAL GENERAL NOTES:

- A. Revise Wind Loads under Design Criteria to read as follows: “Basic Wind Speed: 120 MPH.”

4.03 SHEET P-4.1 – PLUMBING SCHEDULES:

- A. Replace this sheet in its entirety. Revisions include:
 - 1. Revised Hydraulic Oil Separator Tank Schedule.

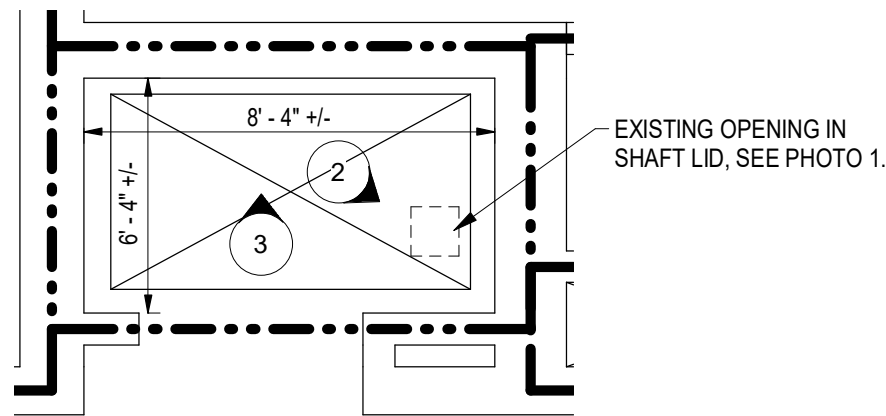
4.04 SHEETS M-2.1, M-2.3, M-2.4, & M-2.5:

- A. Replace these sheets in their entirety. Revisions include:
 - 1. Re-routing new ductwork to better access existing floor openings.

END OF ADDENDUM NUMBER 4



PHOTO 1: CEILING OF ELEVATOR SHAFT.



3 TYP. ELEVATOR SHAFT @ 2ND AND 3RD FLOORS
1/4" = 1'-0"

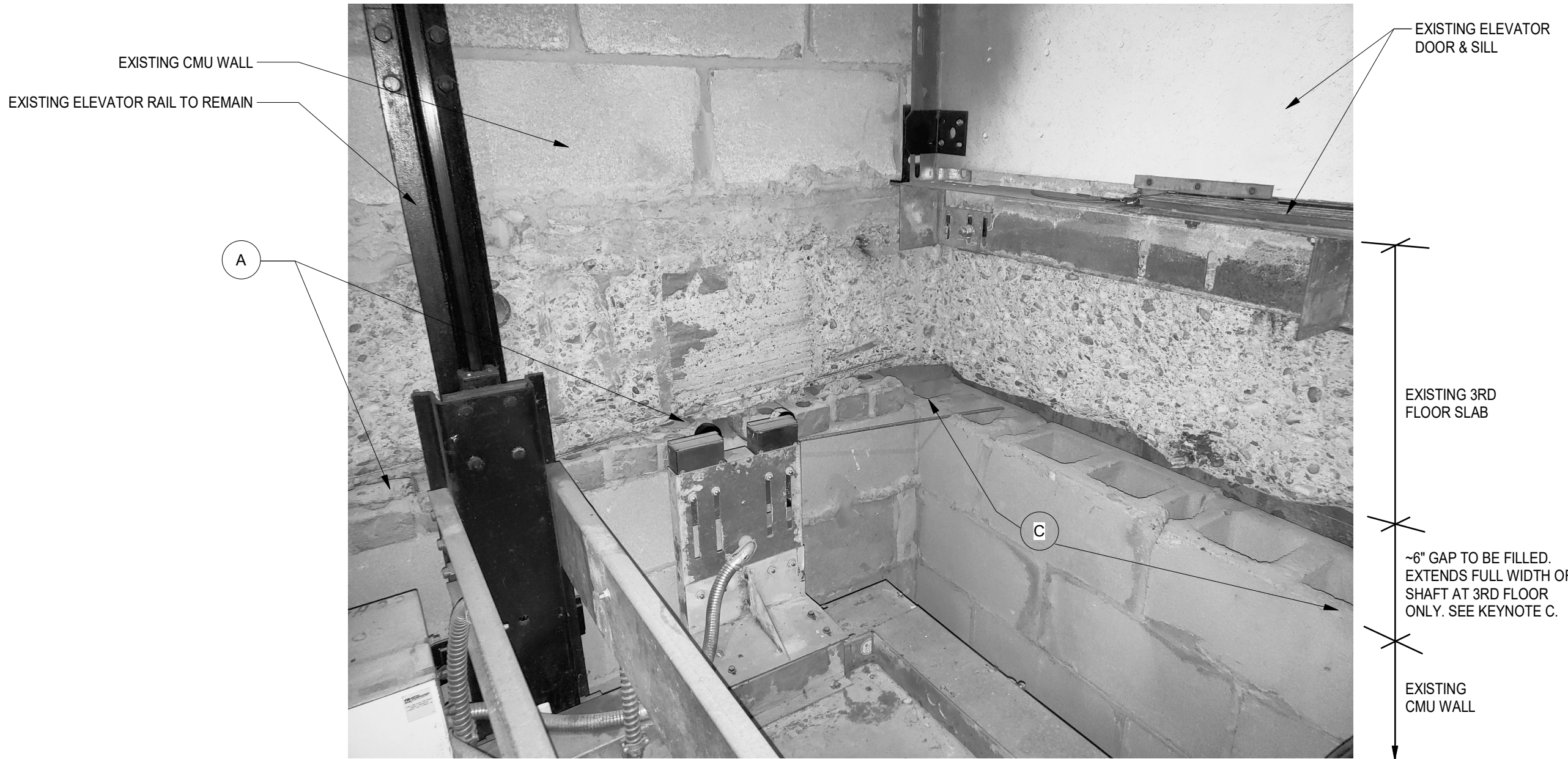


PHOTO 2: SOUTHEAST CORNER AT 3RD FLOOR LANDING



PHOTO 3: NORTH WALL OF SHAFT AT 2ND AND 3RD FLOOR LANDINGS.

GENERAL ELEVATOR SHAFT NOTES

1. THE EXISTING ELEVATOR SHAFT WAS ADDED DURING A BUILDING RENOVATION IN 1988. IT APPEARS THAT THE EXISTING FLOOR SLABS AT THE SECOND AND THIRD FLOORS WERE CUT THROUGH AND CMU WALLS WERE ADDED TO CREATE THE SHAFT.
2. IT IS THE INTENT OF THIS RENOVATION THAT ALL OPENINGS, CRACKS, AND UNUSED PENETRATIONS IN THE ELEVATOR SHAFT SHOULD BE FILLED WITH A UL-RATED FIRE SAFING SYSTEM TO MEET THE EXISTING 2-HR RATING.
3. REMOVE LOOSE DEBRIS FROM WALL OPENINGS PRIOR TO REPAIR.
4. PROTECT RAILS, ELEVATOR CAR, AND ANY NEW OR EXISTING EQUIPMENT IN THE SHAFT DURING CONSTRUCTION. ENSURE THAT APPLIED FIRE SAFING DOES NOT IMPEDE THE OPERATION OF ELEVATOR.

GENERAL ELEVATOR SHAFT NOTES

- A. PROVIDE ADEQUATE BACKING AND INSTALL MINIMUM 2" DEPTH FIRESTOP MORTAR PER UL SYSTEM NO. C-AJ-0082 OR APPROVED EQUAL. TROWEL SMOOTH. PROVIDE TEMPORARY FORMS AS NEEDED. TYPICAL AT EXISTING OPENINGS MORE THAN 1" WIDE.
- B. PROVIDE FORMING MATERIAL AND FIRESTOP SEALANT PER UL SYSTEM NO. WW-S-0042 OR APPROVED EQUAL. TYPICAL AT EXISTING JOINTS LESS THAN 1" WIDE.
- C. INSTALL UL-RATED CUT MASONRY PER UL U906 AT GAP BETWEEN EXISTING MASONRY WALL AND FLOOR SLAB ABOVE. SEAL ANY REMAINING GAPS WITH NEW FIRE STOPPING SYSTEM AS REQUIRED TO MAINTAIN 2 HR RATING.
- D. CAP EXISTING OPENING FROM BELOW WITH A 2-HR GYPSUM SHAFT LINER PANEL SYSTEM UL 415 OR EQUIVALENT PER MANUFACTURER'S SPECIFICATIONS. PRIOR TO INSTALLATION, VERIFY THAT SYSTEM DOES NOT INTERFERE WITH THE OPERATION OF THE ELEVATOR.
- E. NEW FIRE CAULK AND REQUIRED BACKING AT INTERSECTION OF EXISTING CMU WALL AND EXISTING CONCRETE LID.



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ALABAMA A&M UNIVERSITY RENOVATIONS TO BUCHANAN HALL PHASE II 355 BUCHANAN WAY NORMAL, AL

JOB NUMBER
20115

KBB / RVP / 4/7/21
DRAWN - CHECKED - DATE

REVISIONS
No. Description Date
1 ADDENDUM #4 5-17-21

SHEET TITLE
**ELEVATOR
SHAFT PLAN &
DETAILS**

SHEET NUMBER
A-2.1
OF



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ALABAMA A&M UNIVERSITY
**RENOVATIONS TO
BUCHANAN HALL PHASE II**
355 BUCHANAN WAY
NORMAL, AL

JOB NUMBER
20115

TS / JKM / 04-07-2021
DRAWN - CHECKED - DATE

REVISIONS
No. Description Date
1 ADDENDUM 2 04-21-21
2 ADDENDUM 4 05-17-21

SHEET TITLE
**PLUMBING
SCHEDULES**

SHEET NUMBER
P-4.1
OF
7

INTERCEPTOR TANK SCHEDULE	
Mark	P-15
Location	Boiler Room
Serving	SP-1
GPM Flow Rate	65
Hydraulic Oil / Grease Capacity, Lbs.	150
Number of Covers	1
Installation	Recessed with Extension
Inlet / Outlet Connection Size, in.	3"
Width, in.	36"
Length, in.	28"
Weight, lbs.	316
Basis of Design	
Manufacturer	Zurn
Model No.	Z1172-ALE-PW
Size	900
Options	As Listed
Options A Acid resistant coated fabricated steel B Aluminum Cover C Internal air relief bypass D Bronze cleanout plug With Wrench E Double wall trap seal. F Replacement aluminum screen assembly.	

Hydraulic Oil Separator Tank Schedule	
Mark	P-15
Location	Boiler Room
Serving	SP-1
GPM Flow Rate	75
Hydraulic Oil Storage, Gallons	125
Number of Covers	1
Installation	Floor, Surface Mounted
Inlet / Outlet Connection Size, in.	3"
Width, in.	66"
Length, in.	52"
Weight, lbs.	615
Basis of Design	
Manufacturer	Zurn
Model No.	Z1188-ST-75-PW
Size	75
Options	As Listed
Options A Acid resistant coated fabricated steel B Aluminum Cover C Internal air relief bypass D Bronze cleanout plug With Wrench E Double wall trap seal. F Replacement aluminum screen assembly.	

DOMESTIC HOT WATER CIRCULATION PUMP SCHEDULE	
Mark	CP-1
Water Heater Service	WH-1
Building Area Service	Toilets, Janitor's Closet
Room Location	Mechanical Rm. 112
Pump Type	In-Line
GPM	5
Head, Ft	10
Efficiency	43.49
RPM @ BEP	2950
Motor HP	.08
Impeller	Stainless Steel
Volt/Phase	115/1/60
Basis of Design	
Manufacturer	Bell & Gossett
Model	Ecoirc XL 20-35
Notes	As Listed

- Notes:
- Pump shall be lead free stainless steel body and all wetted parts.
 - Motor shall be electronically communicated/permanent magnet with onboard user interface.
 - Pump shall be monitored and controlled through the BAS. Coordinate with the Controls Contractor.
 - Installed with the pump shall be assembly inlet and discharge service valves, a wye strainer, check valve and calibrated balancing valve. Set for the gpm as scheduled.
 - Provide a sensor well on the circulation return as shown on the drawings for the installation of a temperature sensor by the Controls Contractor.
 - See Sequence of Control and Controls Monitoring Points for interlocks thru the BAS.
 - Provide valves and accessories as detailed on the drawings.

THERMOSTATIC MIXING VALVE SCHEDULE		
Mark	TMV-1	TMV
Minimum Flow, GPM	.25	.5
Flow At 5 PSI Pressure Drop	3.5	4
Flow At 10 PSI Pressure Drop	5.5	6
Inlet Temperature, °F	140	140
Discharge Temperature, °F	See Drawings	See Drawings
Maximum ΔP, PSI	10	10
Thermostat Assembly Type	Bi-metal	Bi-metal
TMV Inlet Size	1/2"	3/4"
TMV Discharge Size	1/2"	3/4"
Basis of Design		
Manufacturer	Leonard	Leonard
Model	270-LF-BV-DT	370-LF-BV-DT
Accessories	As Listed	As Listed

- Accessories:
- All thermostatic mixing valves will be ASSE 1017/1070 Compliant
 - Provide valves, integral check valves and unions on all inlet and discharge piping. Cap shall be vandal resistant and locking.
 - Provide a dial thermometer on the discharge pipe.
 - Provide ASSE 1017 & 1069 compliance.
 - Equal TMV's by Lawlor or Powers will be considered.

WATER HAMMER ARRESTOR SCHEDULE					
Mark	Manufacturer	Model	Size	Fixture Unit Capacity	Connection Size
WHA-A	Zurn	Z-1700	100	1 - 11	3/4"
WHA-B	Zurn	Z-1700	200	12 - 32	3/4"
WHA-C	Zurn	Z-1700	300	33 - 60	1"
WHA-D	Zurn	Z-1700	400	61 - 113	1"
WHA-E	Zurn	Z-1700	500	114 - 154	1"
WHA-F	Zurn	Z-1700	600	155 - 330	1"

- Notes:
- Water hammer arrestors have been shown generally on the piping diagrams. The Plumbing Contractor shall be responsible for installing additional arrestors as necessary conforming to IPC, Local Code and the manufacturer's installation requirements based on the length of pipe and the total quantity of fixture units on each branch line.
 - Zurn Shoktrols arrestors have been specified. Equal arrestors shall be Watts SS Stainless Steel series or Jay R. Smith Hydrotrols.
 - Arrestors specified are rated for the required test pressures of the hot and cold water piping systems. All arrestors shall be installed when piping is tested.
 - Water hammer arrestors shall be installed with service isolation valves. Where arrestors occur inside a chase or wall and are inaccessible, an access door shall be provided. See details on the drawings for additional references.

COORDINATION AMONG TRADES

The Civil Contractor, General/Structural Contractor, Fire Protection Contractor, Plumbing Contractor, Mechanical Contractor and Electrical Contractor shall coordinate with each other to determine the space required by, the location of, and the routing of their required respective structural members, beams, footing pours, piping, ductwork, conduits, etc. A jointly created scaled shop drawing at a minimum scale of 1/8" per 1'-0" with dimensions confirming their coordination and installation locations shall be submitted for approval prior to any installation. The minimum sheet size shall be 24" X 36". Failure to coordinate does not constitute a change order when components will not fit within the allocated space and may result in installed equipment and materials being removed at the contractor's expense.

PLUMBING FIXTURE CONNECTION SCHEDULE							
Fixture Symbol	Type of Fixture	Connection sizes					
		Waste	Grease Waste	Vent	CW	HW	RWL
P-1	ADA Water Closet	4"		2" / 3"	1 1/4"		
P-2	Water Closet	4"		2" / 3"	1 1/4"		
P-3	ADA Urinal	2"		1-1/2"	3/4"		
P-4	Urinal	2"		1-1/2"	3/4"		
P-5	ADA Lavatory VT	2"		1-1/2"	1/2"	1/2"	
P-6	Lavatory VT	2"		1-1/2"	1/2"	1/2"	
P-7	Electric Water Cooler	2"		1-1/2"	1/2"		
P-8	Mop Sink (Existing to Remain)	3"		2"	3/4"	3/4"	
P-9	Not Used						
P-10	Floor Drain - Toilets	4"		2"			
P-11	Floor Drain - Boiler Room		4"	2"			
P-12	Exterior Wall Hydrant				3/4"		
P-13	Interior Wall Hydrant				1/2"		
P-14	Interior Cleanout	4"	4"				
P-15	Hydraulic Oil Separator Tank	4"		3"			

- Notes:
- Pipes shall be extended to the fixture full size as indicated. Any increase or reduction in pipe size for actual connection shall be done at the extension of the pipe through the wall.
 - Coordinate mounting height of all wall mounted fixtures with the Architectural Drawings.
 - Coordinate With The Food Service Product Data Sheets & Shop Drawings For All Required Waste & Water Connections. All Indirect Waste Piping Shall Be Type K Rigid Copper With Brazed Joints.
 - See Schedules and Plumbing Devices & Notes for thermostatic mixing valve, pressure reducing valve and pressure gauge requirements.

WATER HEATER SCHEDULE	
Mark	WH-1
Building Area Served	Main Toilets
Room Location	Janitor 106
Electrical	
Volt/Phase	208/1/60
Total Elements	1
Element kW	3
Total kW	3
Amps	14.4
Gallon Capacity	30
GPH Recovery @ 80° F Rise	15
GPH Recovery @ 100° F Rise	12
Maximum Delivery at 30 Minutes	N/A
Tank Temperature, °F	140
Mounting	
Type	Wall
Configuration	Angle Frame. See Detail
Basis of Design	
Manufacturer	Rheem
Model	EGSP-30
Expansion Tank, Manufacturer	Amtrol
Series	STC
Model	ST-5C
Accessories	As Listed
Notes	As Listed

- Electric Accessories
- Provide surface mounted and temperature limiting control.
 - Provide steel tank with high temperature porcelain enamel lining.
 - Provide magnesium anode rods.
 - Provide terminal block for field wiring.
 - Provide foam tank insulation.
 - Provide ASME construction
 - Provide ASME T & P pressure relief.
 - Provide a 3 year tank warranty.

- Electric Notes:
- See Sequence of Control and Controls Monitoring Points for interlocks thru the BAS.
 - Provide wall mounted welded angle steel stand with auxiliary drain pan as detailed on the drawings.
 - Provide hot and cold water piping full pipe size as shown on the floor plans and diagrams. Valves to be full pipe size. Any reduction for connection to the unit will be made tight to the unit connection.
 - Provide a sensor well on the hot water discharge line and as shown on the drawings for the installation of a discharge temperature sensor by the Controls Contractor.

Equals:
Equal water heaters by Bradford White and State will be considered with prior approvals.

PIPE SUPPORT SCHEDULE					
Pipe Size	Support Spacing				Hanger Rod Diameter
	Sched 40 Black Steel	Copper	PVC	Cast Iron Soil Pipe	
1/2"	-	5'-0"	4'-0"	-	3/8"
3/4"	7'-0"	5'-0"	4'-0"	-	3/8"
1"	7'-0"	6'-0"	4'-0"	-	3/8"
1-1/4"	7'-0"	7'-0"	4'-0"	-	3/8"
1-1/2"	9'-0"	8'-0"	4'-0"	-	3/8"
2"	10'-0"	8'-0"	4'-0"	5'-0"	3/8"
2-1/2"	10'-0"	9'-0"	4'-0"	5'-0"	1/2"
3"	10'-0"	10'-0"	4'-0"	5'-0"	1/2"
4"	10'-0"	10'-0"	4'-0"	5'-0"	1/2"
6"	10'-0"	10'-0"	4'-0"	5'-0"	5/8"
8"	10'-0"	10'-0"	4'-0"	5'-0"	3/4"

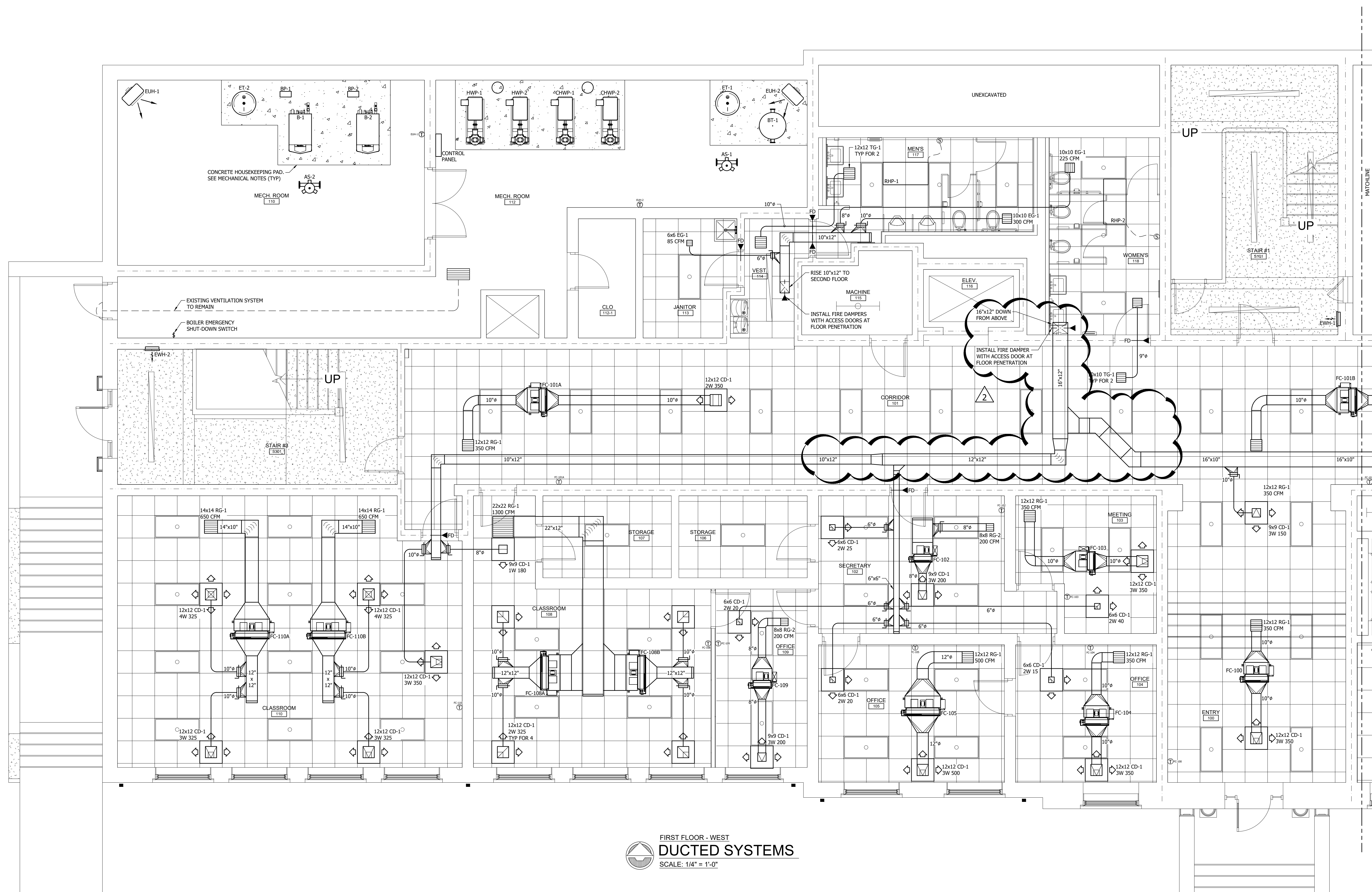
Note: Rods may be reduced one size for double rod hangers, with 3/8" being the minimum diameter.

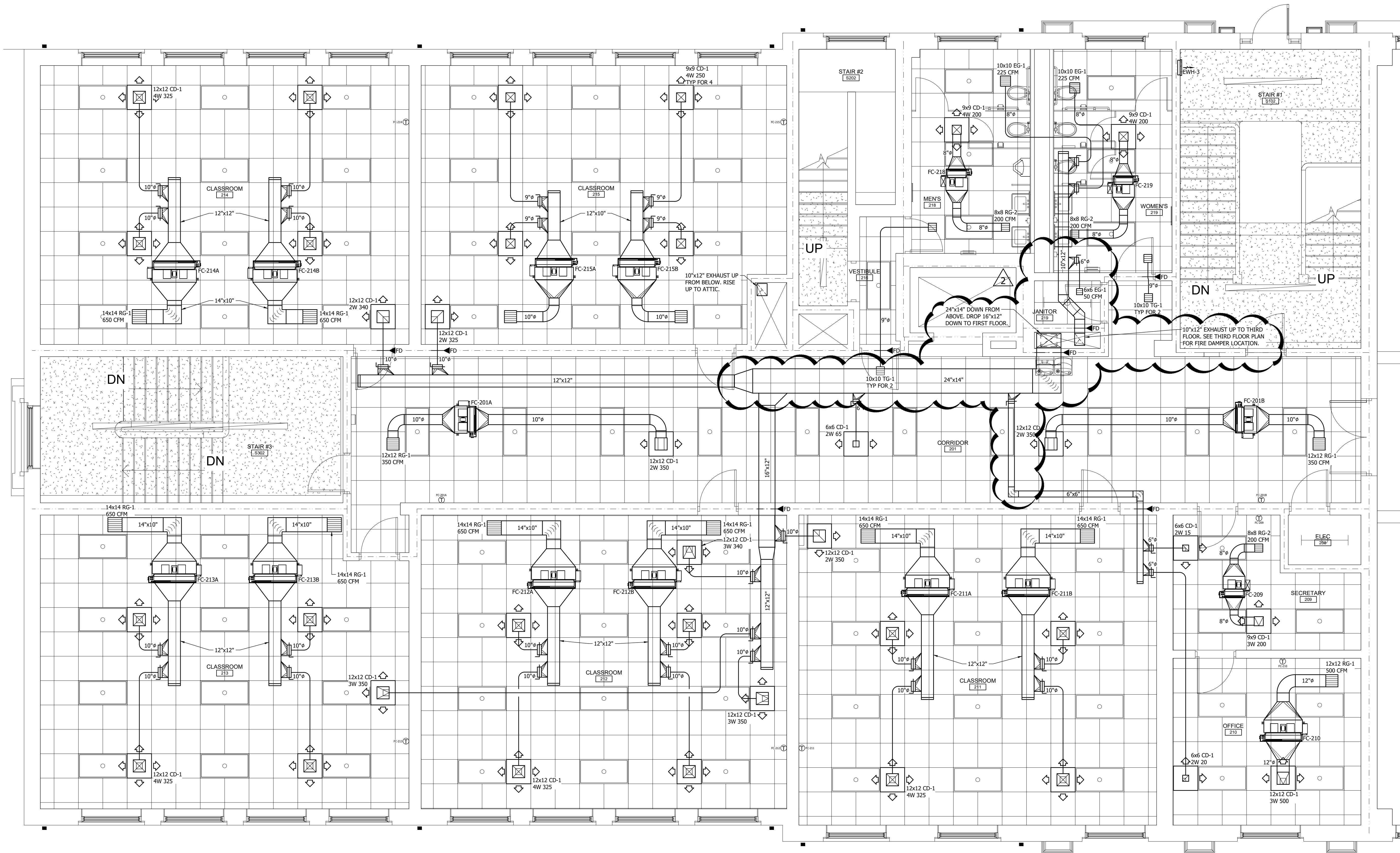
PLUMBING DEVICES AND NOTES

- The existing 2" water service to the building is to remain and be reused. Coordinate with the site conditions for the exact connection point of the new water piping to the new fixtures
- Main building Main Riser Backflow preventer shall be Watts series 007M1QT-S, 2", lead free cast bronze body with quarter turn shut-off ball valves and inlet strainer. Strainer shall be furnished with an auxiliary blowdown valve with threaded hose outlet and brass threaded cap. Install with bypass and normally closed valve as shown on the drawings
- All waste pipe systems in the Mechanical Rm. 110 and 112 will be cast iron. Vent pipe connections above the slab can be PVC. Cut all floor areas as necessary for the installation of the new waste pipe system. See Demolition Notes. Gravel backfill and final pour of the concrete floor will be by the General Contractor. Coordinate with the GC for all locations
- Pipe Disinfectant: Piping to be flushed with clean potable water until discharge water appears clear. Add to the domestic water main 50 ppm (parts per million) of available chlorine. Allow the solution to stand for 24 hours, then flush thoroughly. Schedule the procedure with the local plumbing official for observation. Coordinate the clean water sampling with the health department
- Plumbing Contractor shall coordinate installation of plumbing vents with the Mechanical Contractor for a minimum of 15'-0" clearance from all outside air intake systems on the mechanical equipment. All vents on the sloped roof sections of the building will be installed as shown on the waste and vent diagrams
- Structural steel furnished for equipment or piping support shall be cleaned and coated with two coats of rust inhibiting primer. Where pre-primed steel is used, primer shall be applied over the cut ends. All welded steel shall be wire brushed to remove any scale, ground smooth where necessary and then primed
- ADA Accessible water closets to be installed with the flush valve handle or tank handle accessible on the wide side of the room or stall. Coordinate with the fixture specifications for the applicable fixture application
- Hot and cold water systems in building areas are shown generally for connection to all fixtures. Prior to construction, the Plumbing, Mechanical, Fire Protection and Electrical Contractors shall determine the available space for their appropriate piping, duct, conduit, etc., and jointly create a shop drawing confirming their coordination and installation locations. Failure to coordinate does not constitute a change order when components will not fit within the designated areas
- Fixtures are indicated on the waste and vent diagrams as a waste and vent system with the fixture waste connection to the vertical riser. The Plumbing Contractor shall not deviate from this system by combining fixtures or "laying down" fixtures unless approved in writing by the Engineer

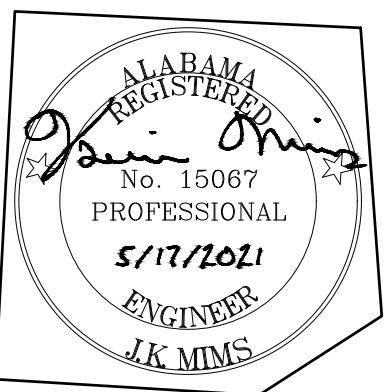
PLUMBING LEGEND

NEW COLD WATER PIPE ABOVE FLOOR
EXIST. COLD WATER TO REMAIN
EXIST. COLD WATER TO BE REMOVED
NEW HOT WATER PIPE ABOVE FLOOR
NEW HOT WATER CIRCULATION RETURN PIPE
EXIST. HOT WATER TO REMAIN
EXIST. HOT WATER TO BE REMOVED
NEW CAST IRON WASTE PIPE
NEW WASTE PIPE
METALLIC WASTE
EXIST. WASTE PIPE TO REMAIN
EXIST. WASTE PIPE TO BE REMOVED
WATER HTR RELIEF & PAN DRAIN
WHA = WATER HAMMER ARRESTOR
EWC = ELECTRICAL WATER COOLER
VTR = PLUMBING VENT THRU ROOF
TMV = THERMOSTATIC MIXING VALVE
HB = HOSE BIBB
SV = SERVICE VALVE
NC = NORMALLY CLOSED
BFP = DUAL CHECK BACKFLOW PREVENTER
= SCHEDULE SYMBOL





SECOND FLOOR
DUCTED SYSTEMS
SCALE: 1/4" = 1'-0"



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RENOVATIONS TO
BUCHANAN HALL PHASE II
355 BUCHANAN WAY
NORMAL, AL

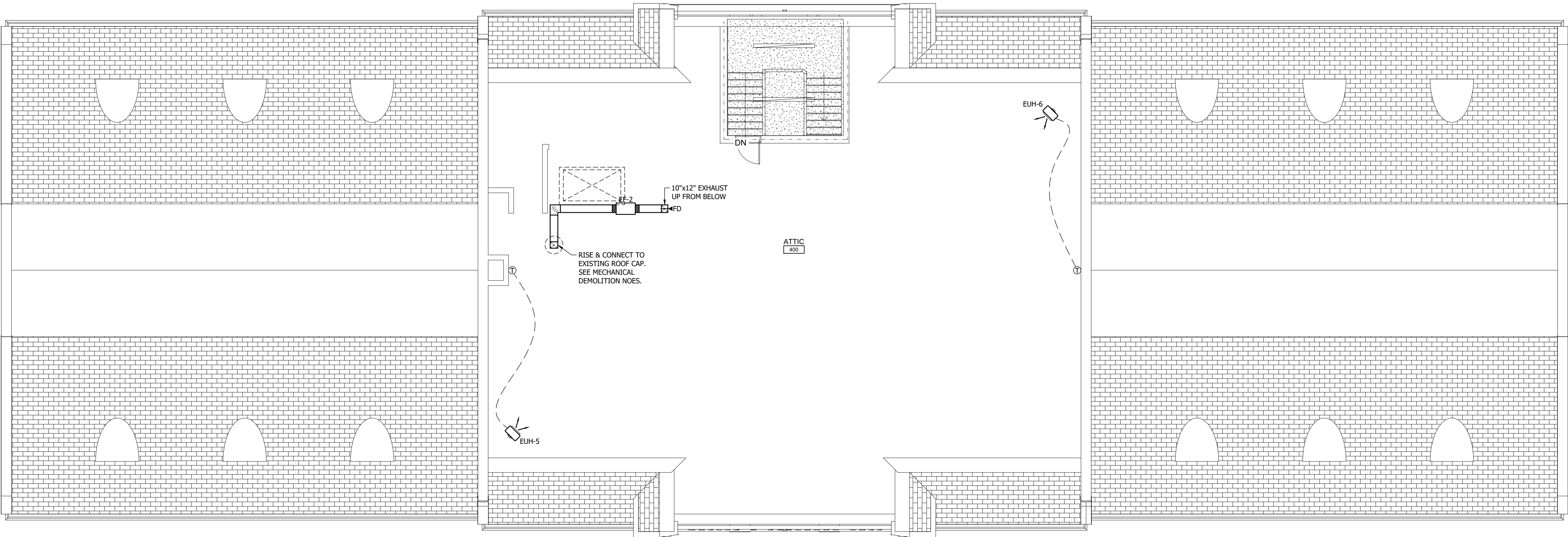
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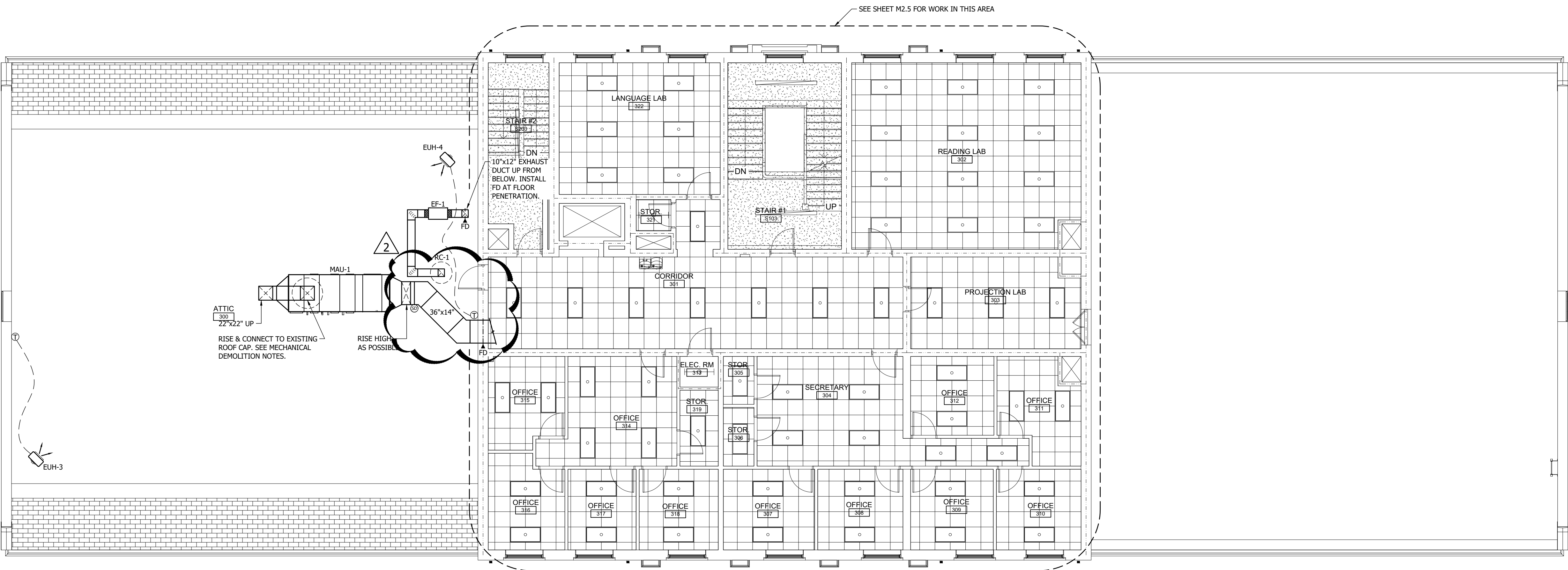
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1	ADDENDUM 2	04-21-21
2	ADDENDUM 4	05-17-21

SHEET TITLE
THIRD FLOOR
& ATTIC
DUCTED SYSTEMS

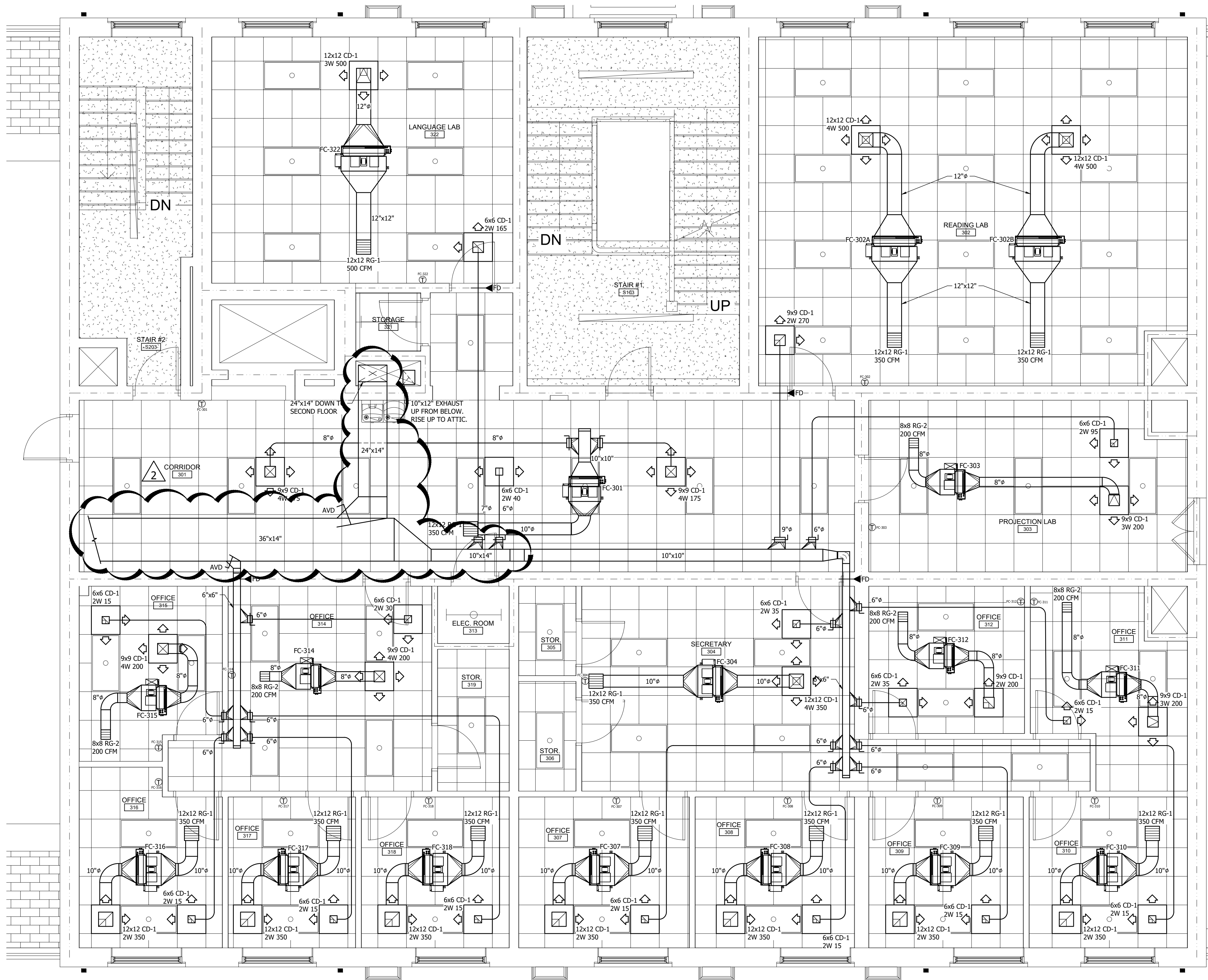
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19



ATTIC
DUCTED SYSTEMS
SCALE: 1/8" = 1'-0"



THIRD FLOOR
DUCTED SYSTEMS
SCALE: 1/8" = 1'-0"



THIRD FLOOR
DUCTED SYSTEMS
SCALE: 1/4" = 1'-0"