



**National Trust for
Historic Preservation**
Save the past. Enrich the future.

Addendum No. 03

PROJECT: PRESIDENT WOODROW WILSON HOUSE BUILDING SYSTEMS IMPROVEMENTS

DATE: JULY 27, 2026

RE: ADDENDUM NO. 3 TO REQUEST FOR PROPOSAL 2026-09, ISSUED JULY 6, 2026

TO: ALL BIDDERS

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated July 6, 2026 and shall be included in the relevant scopes of work and bids submitted. It is the bidder's responsibility to determine if their work is affected by this addendum. Failure to acknowledge receipt of this Addendum on bid submission may subject the Bidder to disqualification.

The Following is AMENDED:

GENERAL NOTES AND CLARIFICATIONS:

1. The Preliminary Schedule is modified as follows:

Release of RFP revisions/answers to questions **Jul 27, 2026**

All other dates shall remain the same

2. Responses to questions received:

Q1: Please clarify the scope and design of the rooftop refrigerant shutoff valve enclosures noted on A-104 and M-104.

A: Exact design of the enclosures will be determined in coordination with the selected contractor. For bidding purposes, contractors should include an allowance, as follows:

3. Allowance No. 1 – Rooftop Refrigerant Shutoff Valve Enclosure

Bidders shall include a Stipulated Allowance of **\$10,000.00** in the Total Base Bid for the fabrication, supply, and installation of two (2) rooftop refrigerant shutoff valve enclosures to satisfy requirements, as noted on drawings A-104 Plan Keynote "24" and M-104. Specific design and requirements for these enclosures will be determined in consultation with the selected contractor during the pre-construction period of work.

Bidders shall include in their Base Bid (outside of this allowance) all costs for general contract administration, overhead, insurance, hoisting/cranage, field verification, coordination with the separately contracted roofing contractor, and other trade coordination.

The Allowance value will be adjusted by Change Order based on actual, documented invoices approved by the Owner prior to procurement. No general contractor overhead or profit shall be added to net additive adjustments unless

total costs exceed the stipulated allowance. Unused portions of the allowance shall be credited in full to the Owner upon final reconciliation.

DRAWINGS:

1. SHEET M-100 BASEMENT – MECHANICAL – NEW WORK
 - a. Update FCU designations per revised sheet.
2. SHEET M-101 FIRST FLOOR – MECHANICAL – NEW WORK
 - a. Update FCU designations per revised sheet.
3. SHEET M-102 SECOND FLOOR - MECHANICAL – NEW WORK
 - a. Update FCU designations per revised sheet.
4. SHEET M-103 THIRD FLOOR – MECHANICAL – NEW WORK
 - a. Update FCU designations per revised sheet.
5. SHEET M-104 FOURTH FLOOR – MECHANICAL – NEW WORK
 - a. Update FCU designations per revised sheet.
 - b. Updated HPU-1 and HPU-2 footprint as noted.
6. SHEET M-601 CONDENSATE RISER DIAGRAMS
 - a. Update FCU designations per revised sheet.
7. SHEET M-602 CONDENSATE RISER DIAGRAMS
 - a. Update FCU designations per revised sheet.
8. SHEET M-801 MECHANICAL SCHEDULES
 - a. Update VRF Heat Pump Unit electrical data per revised sheet.
 - b. Update VRF Fan Coil Unit designations and electrical data per revised sheet.
9. SHEET E-100 BASEMENT – POWER – NEW WORK
 - a. Update FCU designations per revised sheet.
10. SHEET E-101 FIRST FLOOR – POWER – NEW WORK
 - a. Update FCU designations per revised sheet.
11. SHEET E-102 SECOND FLOOR – POWER – NEW WORK
 - a. Update FCU designations per revised sheet.
12. SHEET E-103 THIRD FLOOR – POWER – NEW WORK
 - a. Update FCU designations per revised sheet.
13. SHEET E-104 FOURTH FLOOR – POWER – NEW WORK
 - a. Update FCU designations per revised sheet.
14. SHEET E-602 ELECTRICAL ONE-LINE DIAGRAM – NEW WORK
 - a. Update one-line diagram to reflect HPU disconnect changes per revised sheet.
15. SHEET E-801 – ELECTRICAL SCHEDULES
 - a. Update FCU designations and electrical data per revised sheet.
 - b. Update HPU disconnect schedule per revised sheet.
16. SHEET E-802 PANELBOARD SCHEDULES
 - a. Update Panel LPB FCU designations and electrical data per revised sheet.
17. SHEET E-803 PANELBOARD SCHEDULES
 - a. Update Panel LP4 FCU designations and electrical data per revised sheet.

SPECIFICATIONS: NONE

Attachments:

1. Drawing Sheets: E-100, E-101, E-102, E-103, E-104, E-602, E-801, E-802, E-803, M-100, M-101, M-102, M-103, M-104, M-601, M-602, M-801

END OF ADDENDUM NO. 3

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

① EXISTING EMERGENCY LIGHTING CIRCUIT TO REMAIN. EXTEND CIRCUIT TO NEW EQUIPMENT LOCATION.

- DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)
1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
 2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.



National Trust for Historic Preservation

PROJECT
President Woodrow Wilson House
Mechanical Systems Improvements

2340 S Street NW
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SEAL | DATE

SHEET ISSUE		
Δ	BID ISSUE	02/01/24
Δ	BID ISSUE	07/06/25
Δ	ADDENDUM 03	07/27/25

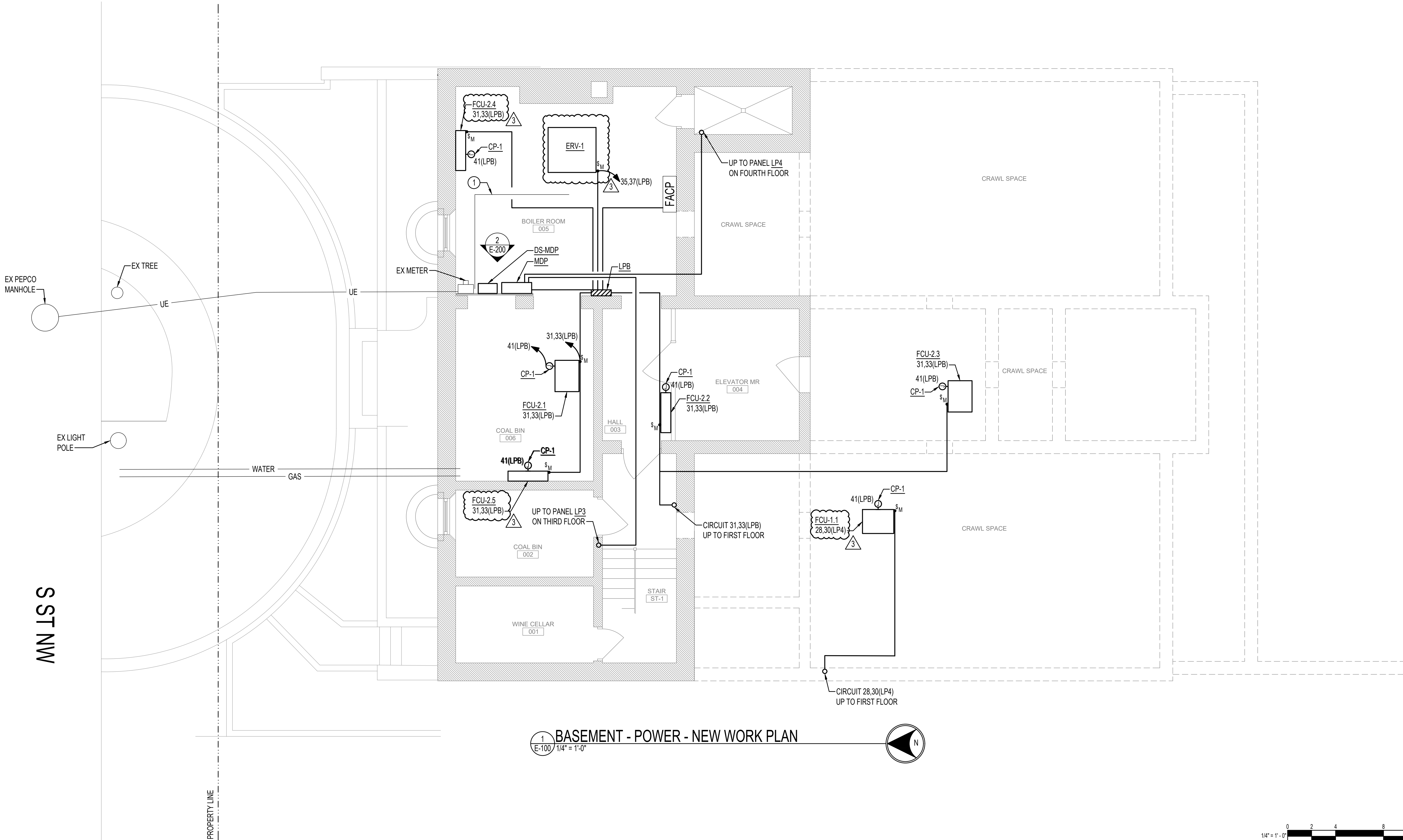
DRAWN BY: WC
APPROVED BY: NTS

PROJ. NO.:
22-N005

SHEET TITLE
BASEMENT - POWER - NEW WORK

SHEET NO.

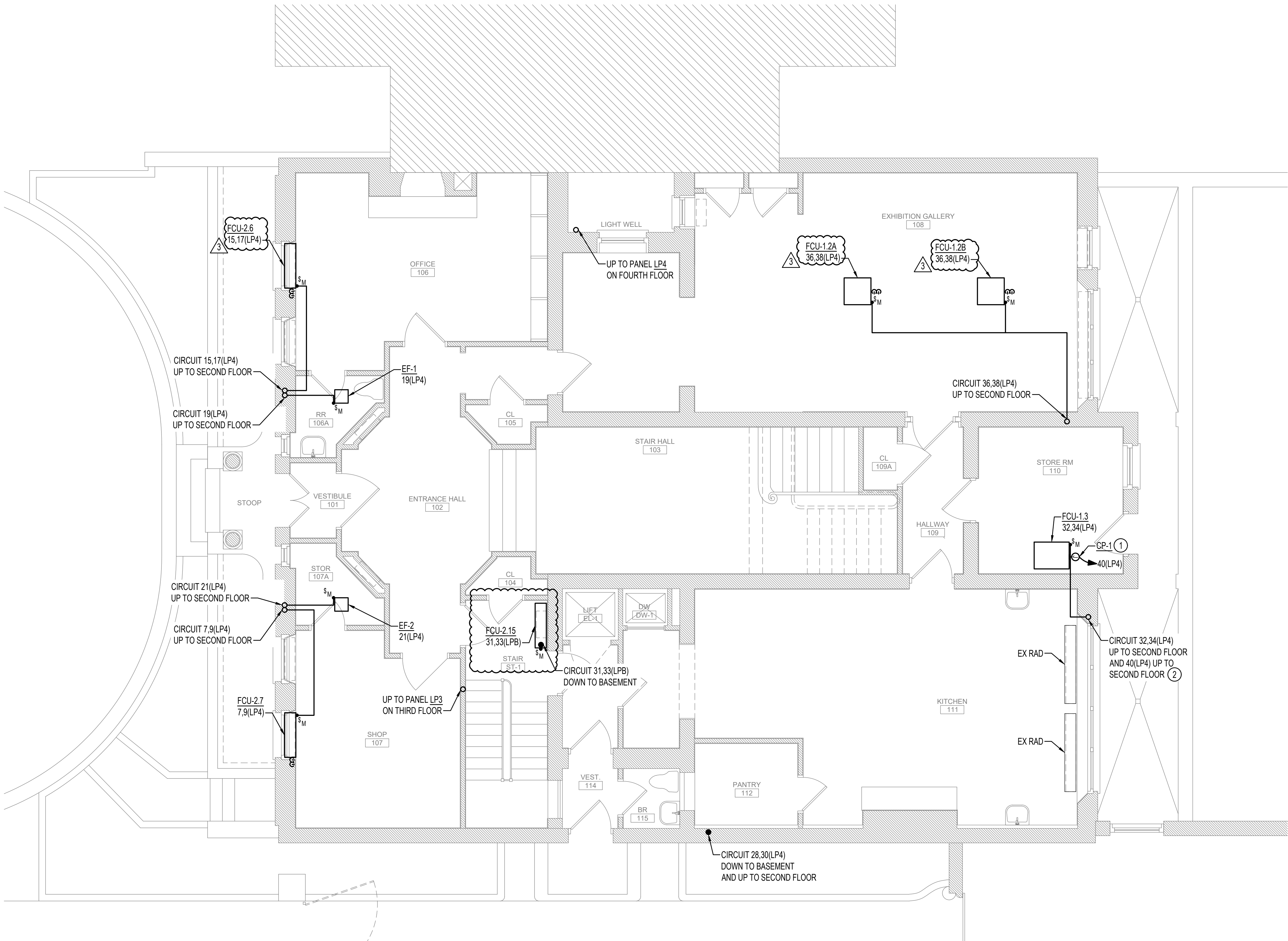
E-100



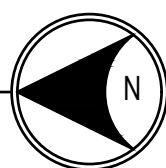
SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

① LOCATE IN ACCESSIBLE AREA ABOVE ACCESS PANEL.

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1 FIRST FLOOR - POWER - NEW WORK PLAN
E-101 1/4" = 1'-0"



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22-N005

SHEET TITLE

**FIRST FLOOR -
POWER - NEW WORK**

SHEET NO.

E-101



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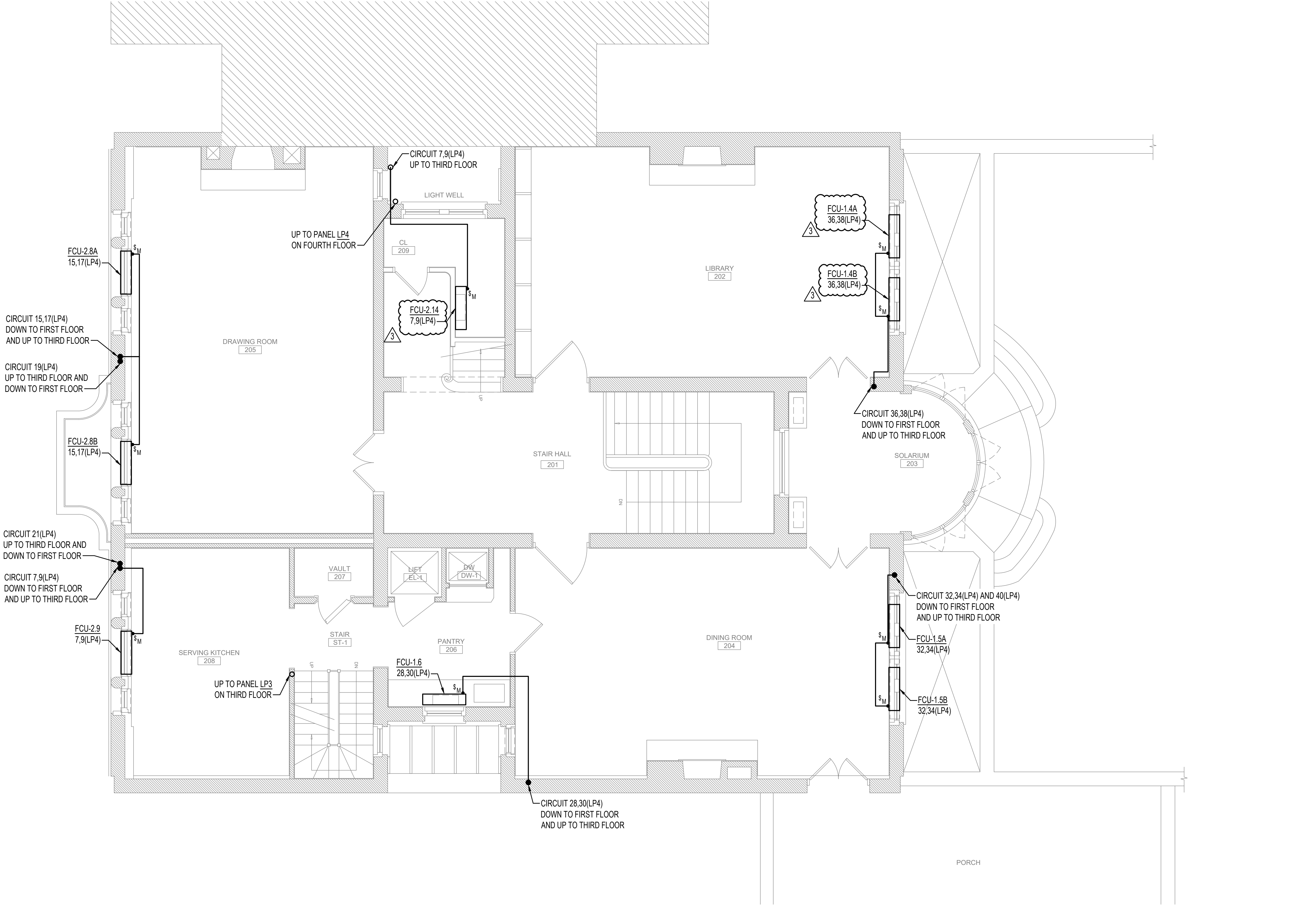
SHEET ISSUE		
	BID ISSUE	02/01/24
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	ADDENDUM 03	07/27/25

DRAWN BY: WC	PROJ. NO.:
APPROVED BY: NTS	22-N005

SHEET TITLE
**SECOND FLOOR -
POWER - NEW WORK**

SHEET NO.
E-102

- DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)
- UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
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1 SECOND FLOOR - POWER - NEW WORK PLAN
E-102 1/4" = 1'-0"



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E-103



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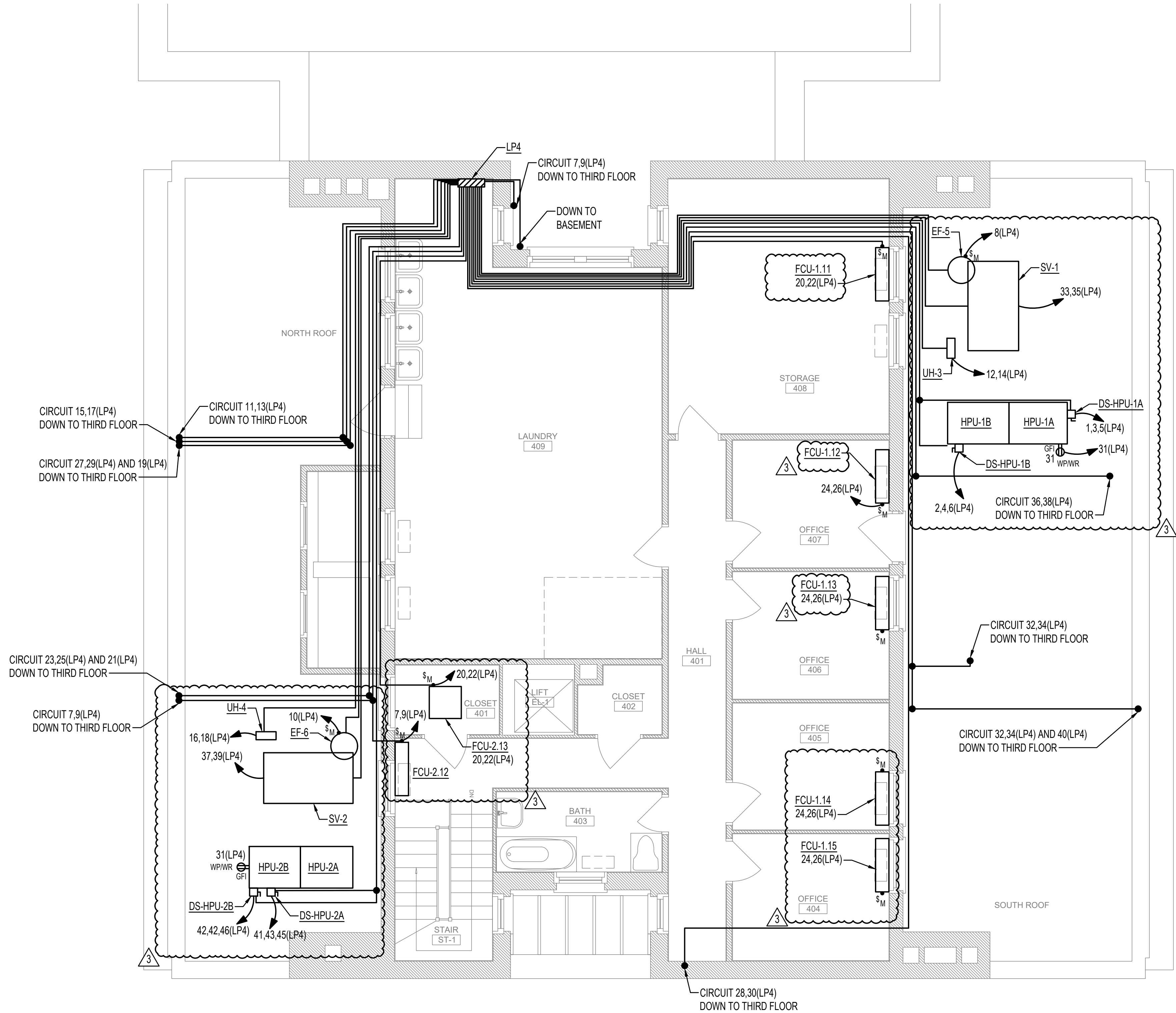
Mechanical/Electrical/Plumbing Engineer

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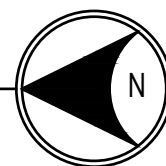
600 Baltimore Ave, Suite 400
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- CONDUITS ROUTED ON EXTERIOR WALL OF FOURTH FLOOR SHALL BE MOUNTED HIGH ON WALL ABOVE DOORS AND WINDOWS. SECURE PER NEC REQUIREMENTS.



1
E-104
FOURTH FLOOR - POWER - NEW WORK PLAN
1/4" = 1'-0"



1/4" = 1'-0"
0 2 4 8 12 FT

SEAL | DATE

SHEET ISSUE

BIO ISSUE	02/01/24
BIO ISSUE	07/06/25
ADDENDUM 03	07/27/25

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APPROVED BY: NTS

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SHEET TITLE

FOURTH FLOOR -
POWER - NEW WORK

SHEET NO.

E-104



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SHEET TITLE
ELECTRICAL SCHEDULES

SHEET NO.
E-801

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE												
EQUIPMENT DESIGNATION	KW	HP	MCA	MOCp	FLA	VOLTAGE	PHASE	LOAD (kVA)	WIRING & CONDUIT	DISCONNECTING MEANS	CONTROL MEANS	NOTES
FCU-1.1	-	-	1.9	15	1.52	208	1	0.32	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.2A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.2B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.3	-	-	1.9	15	1.52	208	1	0.32	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.4A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.4B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.5A	-	-	0.6	15	0.48	208	1	0.10	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.5B	-	-	0.6	15	0.48	208	1	0.10	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.6	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.7A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.7B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.8	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.9	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.10A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.10B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.11	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.12	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.13	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.14	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-1.15	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.1	-	-	0.9	15	0.72	208	1	0.15	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.2	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.3	-	-	0.9	15	0.72	208	1	0.15	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.4	-	-	0.4	15	0.32	208	1	0.04	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.5	-	-	0.2	15	0.16	208	1	0.03	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.6	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.7	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.8A	-	-	0.6	15	0.48	208	1	0.10	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.8B	-	-	0.6	15	0.48	208	1	0.10	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.9	-	-	0.6	15	0.48	208	1	0.10	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.10A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.10B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.11A	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.11B	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.12	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.13	-	-	4	15	3.2	208	1	0.67	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.14	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
FCU-2.15	-	-	0.4	15	0.32	208	1	0.07	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
ERV-1	-	-	4.2	15	3.36	208	1	0.70	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
HPU-1A	-	-	51.5	60	41.2	208	3	14.84	3#6 + #10GW IN 3/4"C	DS-HPU-1A	BY MECHANICAL	1,2
HPU-1B	-	-	36.4	45	29.12	208	3	10.49	3#8 + #10GW IN 3/4"C	DS-HPU-1B	BY MECHANICAL	1,2
HPU-2A	-	-	36.6	45	29.28	208	3	10.55	3#8 + #10GW IN 3/4"C	DS-HPU-2A	BY MECHANICAL	1,2
HPU-2B	-	-	36.6	45	29.28	208	3	10.55	3#8 + #10GW IN 3/4"C	DS-HPU-2B	BY MECHANICAL	1,2
EF-1	-	-	-	15	0.38	120	1	0.05	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
EF-2	-	-	-	15	0.38	120	1	0.05	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
EF-3	-	-	-	15	0.13	120	1	0.02	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
EF-4	-	-	-	15	0.13	120	1	0.02	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
EF-5	-	1/6	5.5	15	4.4	120	1	0.53	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
EF-6	-	1/6	5.5	15	4.4	120	1	0.53	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
UH-1	1.5	-	9.01	15	7.21	208	1	1.50	2#12 + #12GW IN 3/4"C	INTEGRAL DISCONNECT	BY MECHANICAL	1,2
UH-2	1.5	-	9.01	15	7.21	208	1	1.50	2#12 + #12GW IN 3/4"C	INTEGRAL DISCONNECT	BY MECHANICAL	1,2
UH-3	2	-	12.03	15	9.62	208	1	2.00	2#12 + #12GW IN 3/4"C	INTEGRAL DISCONNECT	BY MECHANICAL	1,2
UH-4	2	-	12.03	15	9.62	208	1	2.00	2#12 + #12GW IN 3/4"C	INTEGRAL DISCONNECT	BY MECHANICAL	1,2
SV-1	-	-	1.9	15	1.52	208	1	0.32	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2
SV-2	-	-	1.9	15	1.52	208	1	0.32	2#12 + #12GW IN 3/4"C	MANUAL MOTOR SWITCH	BY MECHANICAL	1,2

NOTES: (APPLICABLE TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ONLY)

- REVIEW EQUIPMENT SUBMITTALS FROM OTHER TRADES PRIOR TO ORDERING OR INSTALLING ASSOCIATED ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL MODIFY COMPONENTS OF THE ELECTRICAL CONNECTIONS AS NECESSARY TO MATCH NAMEPLATE DATA OF APPROVED EQUIPMENT AND PROVIDE A CODE COMPLIANT INSTALLATION, INCLUDING BUT NOT LIMITED TO CIRCUIT BREAKERS, WIRE, CONDUITS, CONNECTION TYPES, SWITCHES, AND FUSES. CHANGE ORDERS AND EXTRAS WILL NOT BE AWARDED FOR FAILURE TO COORDINATE WITH OTHER TRADES' EQUIPMENT SUBMITTALS.
- PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT. MAINTAIN NEC WORKING CLEARANCES. FIELD COORDINATE EXACT LOCATIONS. DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURERS' RECOMMENDED MAINTENANCE CLEARANCES. COORDINATE EXACT LOCATION OF SAFETY SWITCHES WITH MECHANICAL EQUIPMENT/CONTRACTOR.

DISCONNECT SWITCH SCHEDULE							
DESIGNATION	AMP RATING	POLES	VOLT RATING	FUSE AMPS	FUSE CLASS	NEMA ENCLOSURE	NOTES
DS-HPU-1A	60	3	240	60	RK5	3R	1,2,3,4
DS-HPU-1B	60	3	240	45	RK5	3R	1,2,3,4
DS-HPU-2A	60	3	240	45	RK5	3R	1,2,3,4
DS-HPU-2B	60	3	240	45	RK5	3R	1,2,3,4

NOTES: (APPLICABLE TO DISCONNECT SWITCH SCHEDULE ONLY)

- PROVIDE FUSE AND COORDINATE EXACT EQUIPMENT FUSE SIZE WITH MOTOR OR EQUIPMENT NAMEPLATE DATA DURING CONSTRUCTION.
- ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH GROUND LUG.
- PROVIDE ALL FUSIBLE DISCONNECT SWITCHES WITH CLASS R FUSE KIT.
- LABEL DISCONNECT SWITCHES WITH THE DESIGNATION IDENTIFIED IN THIS SCHEDULE AND THE CIRCUIT NUMBER AND PANELBOARD FROM WHICH IT IS FED, INCLUDING VOLTAGE AND PHASE.

SERVICE TYPE: NORMAL

BUS AMPACITY: 400A
MAIN TYPE: 400A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 42K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA3R
LOCATION: BASEMENT COAL BIN

O/C	LOAD DESCRIPTION	OVERCURRENT PROTECTION					KVA	NOTE
		TYPE	P	FRAME	TA	AUX		
1	PANEL LPB	MCCB	3	200	150	-	24.11	-
2	PANEL LP3	MCCB	3	100	60	-	11.94	-
3	PANEL LP1	MCCB	3	100	100	-	12.00	-
4	ELEVATOR	MCCB	3	100	100	-	12.00	-
5	4TH FLOOR RECEPTACLE	MCCB	3	20	20	-	0.36	-
6	PANEL LP4	MCCB	3	200	175	-	56.43	-
7	SPD	MCCB	3	30	30	-	-	-
8	SPARE	MCCB	3	100	-	-	-	-
9	SPACE	-	3	100	-	-	-	-
10	SPACE	-	3	100	-	-	-	-
AUXILIARIES								
a	AFCI BREAKER	e	HANDLE PADLOCK					
b	GFCI BREAKER (5mA)	f	HANDLE CLAMP					
c	GFEF BREAKER (30mA)	g	RED CB HANDLE					
d	SHUNT TRIP BREAKER							
		TOTAL CONNECTED LOAD		116.84				
		TOTAL DEMAND LOAD		103.89				
		DEMAND AMPS		288.4				
☒	GROUND BUS							
☐	SERVICE ENTRANCE LABEL							
☐	INTEGRAL SPD/VSS							
☐	200% NEUTRAL BUS & LUGS	NOTE 1: FIRST 10KVA AT 100% AND REMAINDER AT 50%.						
☐	ISOLATED GROUND BUS	NOTE 2: COOLING CYCLE IS GREATER THAN HEATING CYCLE, THEREFORE COOLING CYCLE IS USED.						
☐	SPLIT BUS	NOTE 3: DEMAND FACT OR FROM NEC TABLE FOR KITCHEN EQUIPMENT OTHER THAN DWELLING UNIT.						
☐	FEED THRU LUGS	NOTE 4: DEMAND FACT OR FROM NEC TABLE FOR ELEVATORS.						
☐	SUB FEED LUGS							
LOAD SUMMARY (KVA)								
LOAD TYPE		CONNECTED	DF	DEMAND				
LIGHTING		8.20	100%	8.20				
RECEPTACLE (SEE NOTE 1)		35.90	-	22.95				
EQUIPMENT: CONTINUOUS		15.26	100%	15.26				
EQUIPMENT: NON-CONTINUOUS		0.00	100%	0.00				
MOTOR		0.00	100%	0.00				
COOLING (SEE NOTE 2)		57.48	100%	57.48				
HEATING (SEE NOTE 2)		0.00	0%	0.00				
STANDBY		0.00	0%	0.00				
OTHER		0.00	100%	0.00				
KITCHEN (SEE NOTE 3)		0.00	100%	0.00				
ELEVATOR (SEE NOTE 4)		0.00	100%	0.00				

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. AFTER DEMOLITION CONTRACTOR SHALL VERIFY ALL REMAINING LOADS CONNECTED TO PANELBOARDS. CONTRACTOR SHALL TRACE CIRCUITS AND SHALL PROVIDE NEW TYPED PANELBOARD DIRECTORIES INDICATING EXISTING LOADS.



**National Trust *for*
Historic Preservation**

PROJECT

President Woodrow Wilson House Mechanical Systems Improvements

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RX PANELBOARD LPB (EXISTING)

SERVICE TYPE: NORMAL
MANUFACTURER: SQUARE-D

BUS AMPACITY Y:200A
MAIN TYPE: MLO
SERVICE: 2Ø8Y120 VOLTS, 3 PHASE, 4 WIRE
MIN. RAT.ING: 10K AC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC CLOSET

#NO	LOAD DESCRIPTION	NOTE	CKT BREAKER			KVAPER PHASE				CKT BREAKER			NOTE	LOAD DESCRIPTION	#NO		
			P	TA	AUX	PHASE A	PHASE B	PHASE C		AUX	TA	P					
1	LTS: COAL BINWINE CELLAR, BATH REC/OFFICE	-	1	20	b	-	-	-	-	-	20	1	1	REC: BUTLER PANTRY, DWG RM + LTS: SERVING	2		
3	REC: SERVIC KIT CHEN 2ND FL	-	1	20	-	-	-	-	-	-	20	1	1	LTS : LIBRARY	4		
5	REC: 4TH FL WIREMOLD IN DUMBWATER SHAFT	-	1	20	-	-	-	-	-	-	20	1	1	LTS : ELEVEQUIP AND BOILER RM	6		
7	REC: LIBRARY	-	1	20	-	-	-	-	-	-	20	1	1	LT G: DINING RM EAST , SOLARIUM AND PANTRY	8		
9	LTS : 2ND FL DRAWING ROOM SIDE LTS	-	1	20	-	-	-	-	-	-	20	1	1	REC: FRONT ENT RYEAST FOYER, LTS : Foyer, OUT SIDE	10		
11	FURNACE	-	1	20	-	-	-	-	-	-	20	1	-	REC: RECEPTION RM, FOYER, COAL BIN	12		
13	REC: FRONT FOYER,BATH RMLTS: SIDE PORCH,DUMBWATER,NEAR ELEV 1ST FL	-	1	20	b	-	-	-	-	-	20	1	-	LTS : NEW STAR	14		
15	REC: #7 STORE RM	-	1	20	-	-	-	-	-	-	20	1	1	REC: DINING RM,PANTRYREC: CONF RM, COFFEE MAKER	16		
17	REC: #8 STORE RM	-	1	15	-	-	-	-	-	-	20	1	1	REC: CONF RM LTS, ADT REC CLOSET , STORE RM, OUT LTS	18		
19	REC: #6 STORE RM	-	1	20	-	-	-	-	-	-	20	1	1	LTS : TRACK CONF RM REC: DEDICATED KIT CHEN 2ND FL	20		
21	REC: MAIN HALL WEST + LTS KIT CHEN	-	1	20	b	-	-	-	-	-	20	1	-	LTS : OLD STAIR, 4TH FL BATH	22		
23	REC: ADT 1ST FL CLOSET	-	1	20	-	-	-	-	-	-	20	1	1	REC: CONF RM, ELEVRM, BOILER RM, 1ST FL OFFICE, CASH REGISTER	24		
25	REC: TELE EQUIP BASEMENT	-	1	20	-	-	-	-	-	-	20	1	1	REC: DRAWING RM, AND END LTS REC: ELEVRM	26		
27	LTS: WWW OFFICE, CONF RM, HALL/REC: CONF RM, WWW OFFICE	-	1	20	-	-	-	-	-	-	20	1	1	LTS : ELEV CAB LT S: CRAWL SPACE	28		
29	TRANS FEED BUZZERS + FRONT DOOR BELL	-	1	20	-	-	-	-	-	-	15	1	-	REC: KIT CHEN REFRIG	30		
						-	-	-	-	-	-	-	-				
						-A	-A	-A	-								

AUXILIARIES

a

b

c

d

e

f

g

X

GROUND BUS

SERVICE ENTRANCE LABEL

INTEGRAL SPD/TVSS

200% NEUTRAL BUS & LUGS

ISOLATED GROUND BUS

SPLIT BUS

FEED THRU LUGS

SUB FEED LUGS

TOTAL CONNECTED LOAD

TOTAL DEMAND LOAD

DEMAND AMPS

0.00

0.00

0.0

LOAD SUMMARY NOTES

NOTE 1: FIRST 10KVA@ 100% AND REMAINDER AT 50%.

NOTE 2: HEATING AND COOLING CYCLES ARE EQUAL, THEREFORE HEATING CYCLE IS USED.

NOTE 3: DEMAND FACTOR FROM NEC TABLE FOR KIT CHEN EQUIPMENT OTHER THAN DWELLING UNIT.

NOTE 4: DEMAND FACTOR FROM NEC TABLE FOR ELEVATOR.

LOAD SUMMARY (KVA)

LOAD TYPE

CONNECTED

DF

DEMAND

LIGHTING

0.00

100%

0.00

RECEPTACLE (SEE NOTE 1)

0.00

--

0.00

EQUIPMENT: CONTINUOUS

0.00

100%

0.00

EQUIPMENT: NON-CONTINUOUS

0.00

100%

0.00

MOTOR

0.00

100%

0.00

COOLING (SEE NOTE 2)

0.00

0%

0.00

HEATING (SEE NOTE 2)

0.00

100%

0.00

STANDBY

0.00

0%

0.00

OTHER

0.00

100%

0.00

KITCHEN (SEE NOTE 3)

0.00

100%

0.00

ELEVATOR (SEE NOTE 4)

0.00

100%

0.00

REPLACE
WITH NEW

SERVICE TYPE: NORMAL
MANUFACTURER: SQUARE-D

BUS AMPACITY: 150A
MAIN TYPE: MLO
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC CLOSET

CCT	LOAD DESCRIPTION	NOTE	CKT BREAKER			KVA/PER PHASE			CKT BREAKER			NOTE	LOAD DESCRIPTION	CCT			
			P	TA	AUX	PHASE A	PHASE B	PHASE C	AUX	TA	P						
1	LTS: COAL BIN/WINE CELLAR, BATH REC/OFFICE	-	1	20	-	0.56	0.64				-	20	1	-	REC: BUTLER PANTRY, DWG RM + LTS: SERVING	2	
3	REC: SERVING KIT/CHEN 2ND FL	-	1	20	-		0.72	0.64			-	20	1	-	REC: BUTLER PANTRY, DWG RM + LTS: SERVING	4	
5	REC: 4TH FL WIREMOLD IN DUMBWATER SHAFT	-	1	20	-				0.72	0.20	-	20	1	-	LTS: LIBRARY	6	
7	REC: LIBRARY	-	1	20	-	0.72	0.20				-	20	1	-	LTS: LIBRARY	8	
9	LTS: 2ND FL DRAWING ROOM SIDE LTS	-	1	20	-			0.30	0.20		-	20	1	-	LTS: ELEV EQUIP AND BOILER RM	10	
11	FURNACE	-	1	20	-				0.20	0.20	-	20	1	-	LTS: ELEV EQUIP AND BOILER RM	12	
13	REC: FRONT FOYER, BATHROOM LTS: SIDE PORCH, DUMBWATER, NEAR ELEV 1ST FL	-	1	20	b	1.00	0.20				-	20	1	-	LTG: DINING RM EAST, SOLARIUM AND PANTRY	14	
15	REC: #7 STORE RM	-	1	20	-			0.90	0.20		-	20	1	-	LTG: DINING RM EAST, SOLARIUM AND PANTRY	16	
17	REC: #8 STORE RM	-	1	15	-					0.90	0.64	-	20	1	-	REC: FRONT ENTRY/EAST FOYER, LTS: FOYER, OUTSIDE	18
19	REC: #6 STORE RM	-	1	20	-	0.90	0.64				-	20	1	-	REC: FRONT ENTRY/EAST FOYER, LTS: FOYER, OUTSIDE	20	
21	REC: MAIN HALL WEST + LTS KIT/CHEN	-	1	20	b			0.90	0.90		-	20	1	-	REC: RECEPTION RM, FOYER, COAL BIN	22	
23	REC: ADT 1ST FL CLOSET	-	1	20	-					0.72	0.20	-	20	1	-	LTS: NEW STAIR	24
25	REC: TELE EQUIP BASEMENT	-	1	20	b	0.54	0.72				-	20	1	-	REC: DINING RM, PANTRY	26	
27	LTS: W.W. OFFICE, CONF RM, HALL; REC: CONF RM, W.W. OFFICE	-	1	20	-			0.74	0.72		-	20	1	-	REC: CONF RM, COFFEE MAKER	28	
29	TRANS FEED BUZZERS + FRONT DOOR BELL	-	1	20	-					0.30	0.82	-	15	1	-	REC: CONF RM LTS, ADT REC CLOSET, STORE RM, OUT LTS	30
31	FCU: 2, 12, 22, 32, 152, 42, 5	-	2	15	-	0.27	0.72				-	20	1	-	REC: CONF RM, COFFEE MAKER	32	
33	{ }	-	-	-	-			0.27	0.50		-	20	1	-	LTS: TRACK CONF RM	34	
35	ERV-1	-	2	15	-					0.44	0.36	-	20	1	-	REC: DEDICATED KIT/CHEN 2ND FL	36
37	{ }	-	-	-	-	0.44	0.20				-	20	1	-	LTS: OLD STAIR, 4TH FL BATH	38	
39	FIRE ALARM CONTROL PANEL	-	1	20	g			0.20	0.54		-	20	1	-	REC: CONF RM, ELEV RM, BOILER RM, 1ST FL OFFICE, CASH REGISTER	40	
41	BASEMENT CONDENSATE PUMPS	-	1	20	-					0.56	0.54	-	20	1	-	REC: CONF RM, ELEV RM, BOILER RM, 1ST FL OFFICE, CASH REGISTER	42
43	SPARE	-	1	20	-	-	0.64				-	20	1	-	REC: DRAWING RM, AND END LTS	44	
45	SPARE	-	1	20	-			-	0.54		-	20	1	-	REC: ELEV RM	46	
47	SPARE	-	1	20	-					-	0.10	-	20	1	-	LTS: ELEV CAB	48
49	SPACE	-	1	-	-	-	0.20				-	20	1	-	LTS: CRAWL SPACE	50	
51	SPACE	-	1	-	-			-	0.36		-	20	1	-	REC: KIT/CHEN REFRIG	52	
53	SPACE	-	1	-	-					-	-	-	20	1	-	SPARE	54
						4.42	4.16	4.03	4.60	3.84	3.06						
						8.58		8.63			6.90						
						71.5A		71.9A			57.5A						
AUXILIARIES																	
a	AFICI BREAKER	☒	GROUND BUS			TOTAL CONNECTED LOAD		24.11									
b	GFCI BREAKER (5mA)	☐	SERVICE ENTRANCE LABEL			TOTAL DEMAND LOAD		20.29									
c	GFPF BREAKER (30mA)	☐	INTEGRAL SPD/TVSS			DEMAND AMPS		56.3									
d	SHUNT TRIP BREAKER	☐	200% NEUTRAL BUS & LUGS														
e	HANDLE PADLOCK	☐	ISOLATED GROUND BUS														
f	HANDLE CLAMP	☐	SPLIT BUS														
g	RED CB HANDLE	☐	FEED THRU LUGS														
		☐	SUB FEED LUGS														
LOAD SUMMARY NOTES																	
NOTE 1: FIRST 10KVA AT 100% AND REMAINDER AT 50%.																	
NOTE 2: COOLING CYCLE IS GREATER THAN HEATING CYCLE. THEREFORE COOLING CYCLE IS USED.																	
NOTE 3: DEMAND FACTOR FROM NEC TABLE FOR KIT CHEN EQUIPMENT OTHER THAN DWELLING UNIT.																	
NOTE 4: DEMAND FACTOR FROM NEC TABLE FOR ELEVATOR.																	
LOAD SUMMARY (KVA)																	
LOAD TYPE		CONNECTED	DF	DEMAND													
LIGHTING		3.80	100%	3.80													
RECEPTACLE (SEE NOTE 1)		17.64	--	13.82													
EQUIPMENT: CONTINUOUS		1.26	100%	1.26													
EQUIPMENT: NON-CONTINUOUS		0.00	100%	0.00													
MOTOR		0.00	100%	0.00													
COOLING (SEE NOTE 2)		1.41	100%	1.41													
HEATING (SEE NOTE 2)		0.00	0%	0.00													
STANDBY		0.00	0%	0.00													
OTHER		0.00	100%	0.00													
KIT CHEN (SEE NOTE 3)		0.00	100%	0.00													
ELEVATOR (SEE NOTE 4)		0.00	100%	0.00													

SEAL | DATE

SHEET ISSUE

1	BID ISSUE	02/01/24
2	BID ISSUE	07/06/26
3	ADDENDUM 03	07/27/26

DRAWN BY: WC

PROJ. NO.

APPROVED BY: NTS

22-N005

SHEET TITLE

PANELBOARD SCHEDULES

SHEET NO. _____

E-802



National Trust for Historic Preservation

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President Woodrow Wilson House
Mechanical Systems Improvements

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DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. AFTER DEMOLITION CONTRACTOR SHALL VERIFY ALL REMAINING LOADS CONNECTED TO PANELBOARDS. CONTRACTOR SHALL TRACE CIRCUITS AND SHALL PROVIDE NEW TYPED PANELBOARD DIRECTORIES INDICATING EXISTING LOADS.

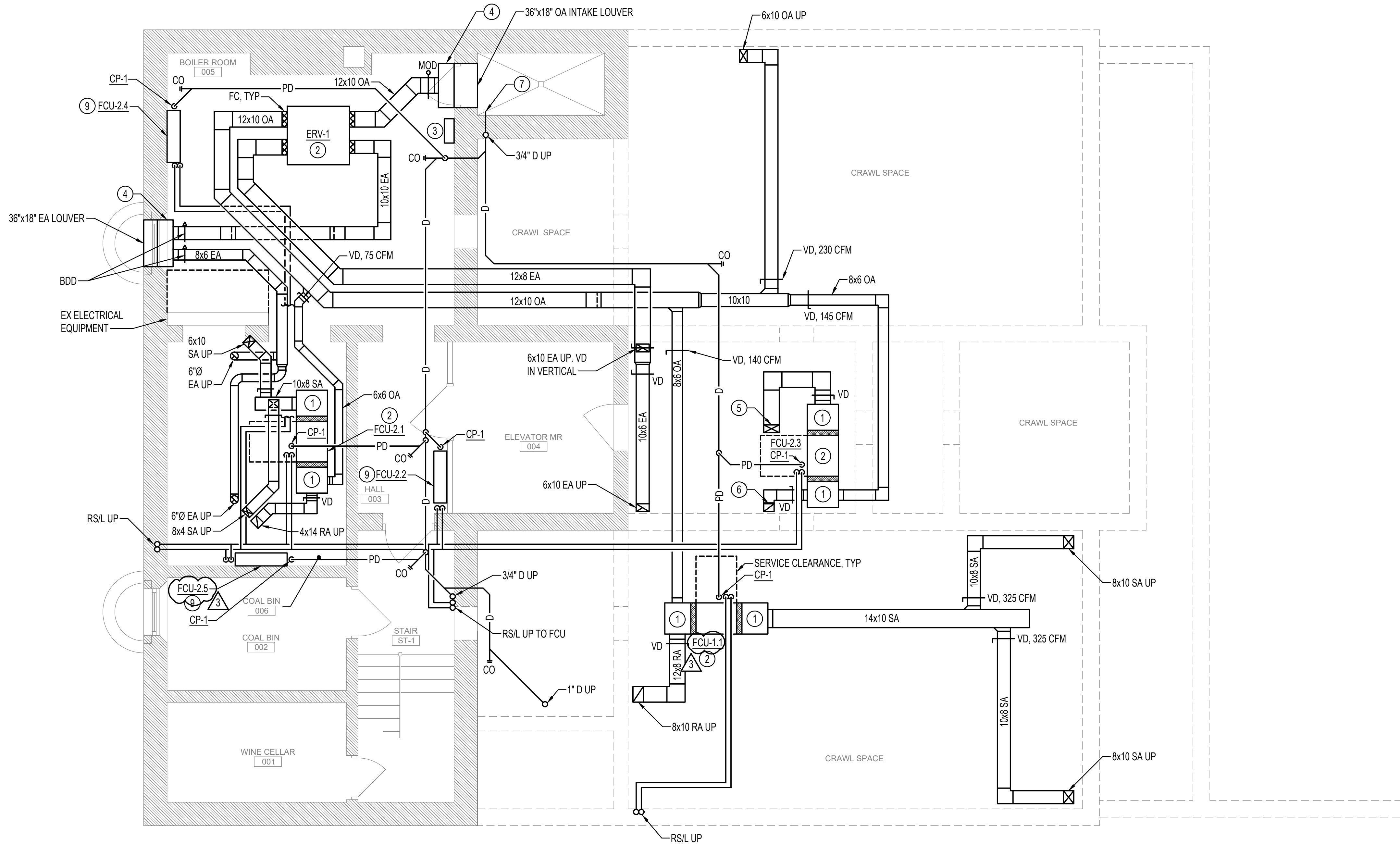
RX PANELBOARD LP3 (EXISTING)															BUS AMPACITY: 100A MAIN TYPE: MLO SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE MIN. RATING: 10K AC RMS SYMMETRICAL AMPS															MOUNTING: SURFACE SECTIONS: 1 ENCLOSURE: NEMA 1 LOCATION: ELEC CLOSET														
SERVICE TYPE: NORMAL MANUFACTURER: CUTLER HAMMER TYPE: PB																																												
L/O	LOAD DESCRIPTION	NOTE	CKT BREAKER			KVA PER PHASE						CKT BREAKER			NOTE	LOAD DESCRIPTION	L/O																											
			P	TA	AUX	PHASE A		PHASE B		PHASE C		AUX	TA	P																														
1	LTS AND REC: 4TH FL	-	1	20	-	-	-	-	-	-	-	20	1	-	LTS: LAUNDRY RM 4TH FL	2																												
3	LTS AND REC: 4TH FL	-	1	20	-	-	-	-	-	-	-	20	1	-	REC: GUEST RM B 3RD FL	4																												
5	LTS: LAUNDRY AND STORE RM 4TH FL	-	1	20	-	-	-	-	-	-	-	20	1	-	REC: GUEST RM A 3RD FL	6																												
7	LTS AND REC: GUEST RM A 3RD FL	-	1	20	-	-	-	-	-	-	-	20	1	-	REC: GUEST RM B 3RD FL	8																												
9	LTS AND REC: GUEST RM B, BATH, STORE RM	-	1	20	-	-	-	-	-	-	-	20	1	-	REC: QUAD 3RD FL BATH	10																												
11	LTS AND REC: 3RD FL	-	1	20	-	-	-	-	-	-	-	20	1	-	REC: QUAD 3RD FL BATH	12																												
13	LTS AND REC: DRESSING AND BATHROOM 3RD FL	-	1	20	-	-	-	-	-	-	-	20	1	-	REC: RECEPTION OFFICE 1ST FL	14																												
15	BEDRM/BATH, NURSE BEDRM, PORCH LTS	-	1	20	-	-	-	-	-	-	-	20	1	-	LTS: MAIN STAIR 3RD FL	16																												
17	REC: WILSON BEDROOM	-	1	20	-	-	-	-	-	-	-	20	1	-	LTS: HALLWAY 3RD FL	18																												
19	DEDICATED AC LOCATED IN BATH 3RD FL	-	1	20	-	-	-	-	-	-	-	20	1	-	REC: QUAD 3RD FL BATH	20																												
21	REC: QUAD NEAR MEG DESK	-	1	20	-	-	-	-	-	-	-	20	1	-	REC: QUAD 3RD FL BATH	22																												
23	REC: QUAD NEAR MEG DESK	-	1	20	-	-	-	-	-	-	-	20	1	-	SPACE	24																												
						-	-	-	-	-	-																																	
						-A	-	-	-A	-	-	-A																																
AUXILIARIES															LOAD SUMMARY (KVA)																													
a AFCI BREAKER															LIGHTING																													
b GFCI BREAKER (5mA)															RECEPTACLE (SEE NOTE 1)																													
c GFEP BREAKER (30mA)															EQUIPMENT: CONTINUOUS																													
d SHUNT TRIP BREAKER															EQUIPMENT: NON-CONTINUOUS																													
e HANDLE PADLOCK															MOTOR																													
f HANDLE CLAMP															COOLING (SEE NOTE 2)																													
g RED CB HANDLE															HEATING (SEE NOTE 2)																													
															STANDBY																													
															OTHER																													
															KITCHEN (SEE NOTE 3)																													
															ELEVATOR (SEE NOTE 4)																													

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

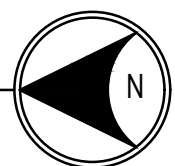
- EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
- NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———
- REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- 24" LONG INSULATED PLENUM. WIDTH AND HEIGHT SHALL MATCH UNIT CONNECTION SIZE.
- INSTALL TIGHT TO CEILING. SUPPORT FROM ABOVE.
- VRF MAIN CONTROLLER. MOUNT ON WALL WITH TOP OF UNIT APPROXIMATELY 60" AFF.
- 12" DEEP INSULATED PLENUM. WIDTH AND HEIGHT SHALL MATCH LOUVER SIZE.
- 12x6 SA UP.
- 8x6 RA UP.
- TERMINATE 2" D WITH 90 DEGREE ELBOW DOWN 1 FT ABOVE FINISHED GRADE. DISCHARGE ONTO CONCRETE SPLASH BLOCK.
- MAINTAIN 36" CLEARANCE IN FRONT AND ABOVE ELECTRICAL EQUIPMENT.
- FLOOR MOUNTED.



1 BASEMENT - MECHANICAL - NEW WORK PLAN
M-100 1/4" = 1'-0"



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SEAL | DATE

SHEET ISSUE		
	BIO ISSUE	02/01/24
	BIO ISSUE	07/06/25
	ADDENDUM 03	07/27/25

DRAWN BY: GPZ
APPROVED BY: CEL

PROJ. NO.:
22-N005

SHEET TITLE
BASEMENT - MECHANICAL - NEW WORK

SHEET NO.
M-100



**National Trust for
Historic Preservation**

PROJECT
**President Woodrow Wilson House
Mechanical Systems Improvements**

2340 S Street NW
Washington, DC 20008

Owner

**The National Trust for
Historic Preservation**
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Washington, DC 20005
(317) 574-9409

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(202) 588-6183

Mechanical/Electrical/Plumbing Engineer

Henry Adams

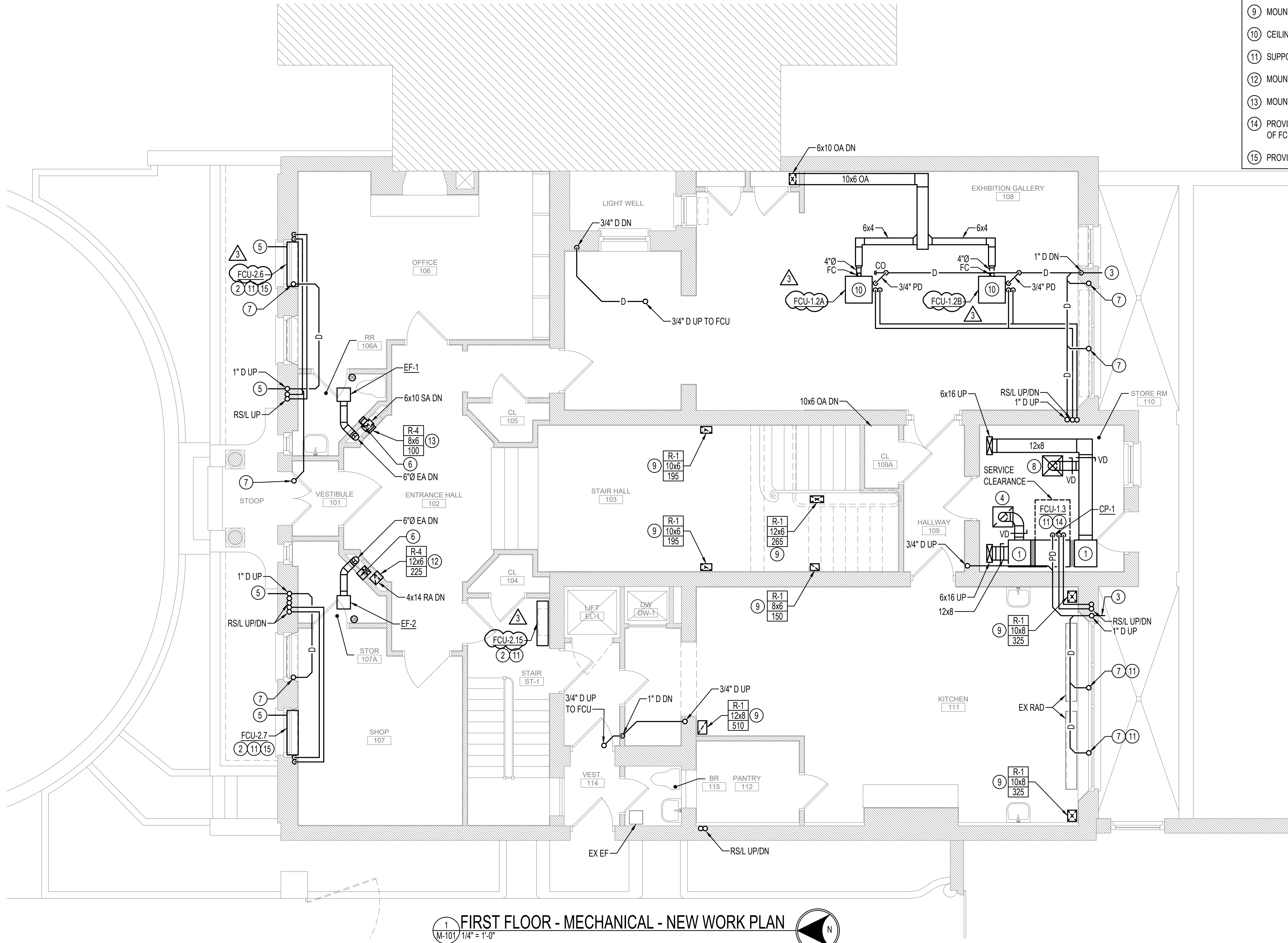
600 Baltimore Ave., Suite 400
Baltimore, MD 21204
(410) 296-6500

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

1. EXISTING SHOWN WITH LIGHT WEIGHT LINE, ———
2. NEW WORK SHOWN WITH HEAVY WEIGHT LINE, ———
3. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- ① 24" LONG INSULATED PLENUM. WIDTH AND HEIGHT SHALL MATCH UNIT CONNECTION SIZE.
- ② INSTALL FCU WITHIN DECORATIVE ENCLOSURE. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON ENCLOSURE.
- ③ TERMINATE 1" D WITH 90 DEGREE ELBOW DOWN 1 FT ABOVE AREAWAY. DISCHARGE ONTO CONCRETE SPLASH BLOCK.
- ④ 18X18 R-3, 130 CFM. 8"Ø NECK.
- ⑤ TERMINATE D WITH 90 DEGREE ELBOW DOWN 1 FT ABOVE FINISHED GRADE. DISCHARGE ONTO CONCRETE SPLASH BLOCK.
- ⑥ 6x6 R-4, 50 CFM. INSTALL IN EXISTING RADIATOR CABINET. MOUNT TOP OF REGISTER 0'-6" BELOW CEILING.
- ⑦ 3/4" D UP TO FCU.
- ⑧ 18x18 R-2, 130 CFM. 8"Ø NECK.
- ⑨ MOUNT FLUSH TO FLOOR.
- ⑩ CEILING MOUNTED. SUPPORT FROM ABOVE.
- ⑪ SUPPORT FROM ABOVE.
- ⑫ MOUNT BOTTOM OF REGISTER 0'-6" AFF.
- ⑬ MOUNT TOP OF REGISTER 0'-6" BELOW CEILING.
- ⑭ PROVIDE 4 FT X 3 FT ACCESS PANEL TO ALLOW FOR SERVICE AND FULL REMOVAL OF FCU.
- ⑮ PROVIDE 2'-0" LONG R-5 IN WINDOW SILL ABOVE EXISTING RADIATOR ENCLOSURE.



FIRST FLOOR - MECHANICAL - NEW WORK PLAN
1
M-101 / 1/4" = 1'-0"



SEAL | DATE

SHEET ISSUE

△	BIO ISSUE	02/01/24
△	BIO ISSUE	07/06/25
△	ADDENDUM 03	07/27/25

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PROJ. NO.:

APPROVED BY: CEL

22-N005

SHEET TITLE

**FIRST FLOOR -
MECHANICAL - NEW
WORK**

SHEET NO.

M-101



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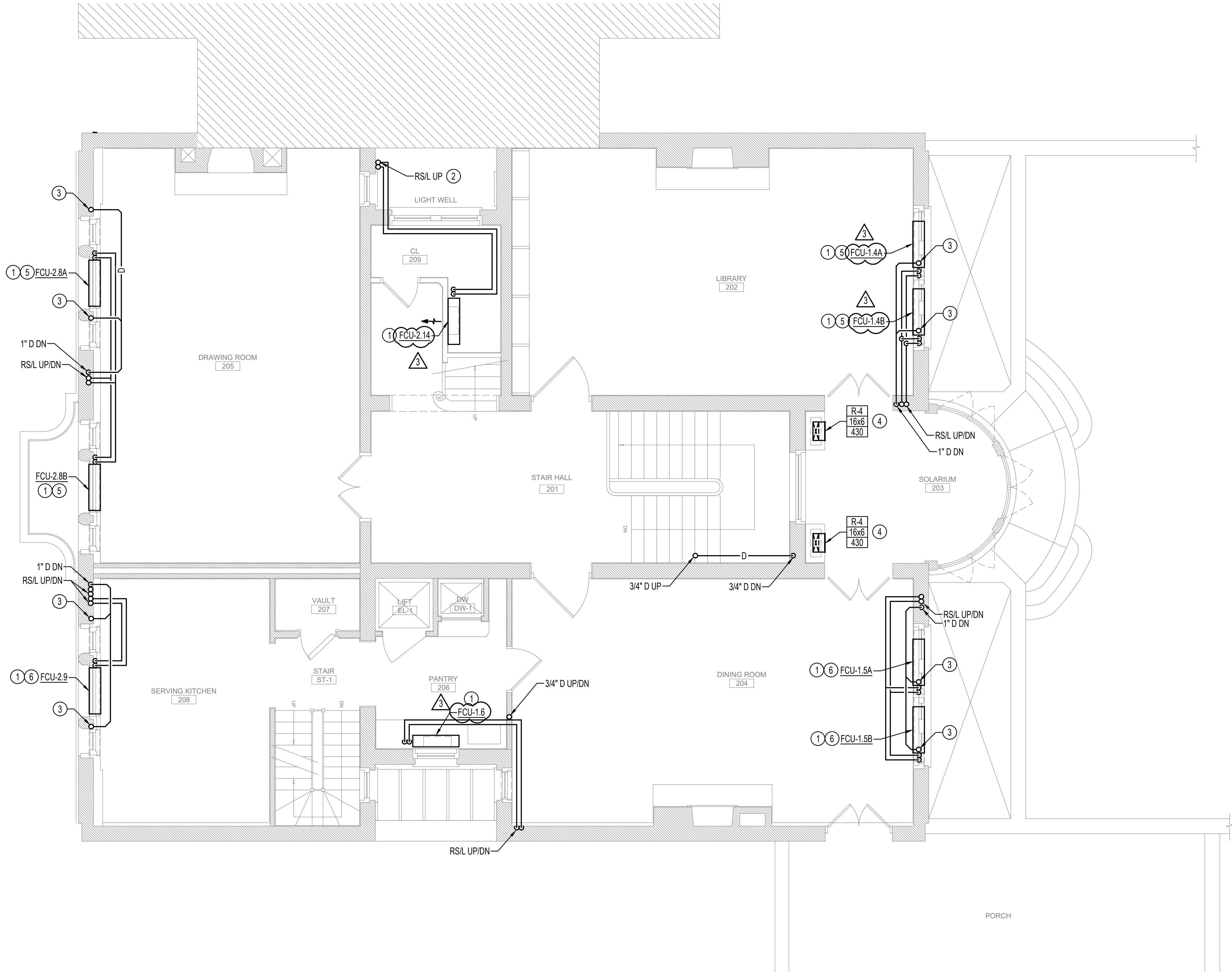
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APPROVED BY: CEL	

SHEET TITLE
**SECOND FLOOR -
MECHANICAL - NEW
WORK**

SHEET NO.
M-102

- DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)
- EXISTING SHOWN WITH LIGHT WEIGHT LINE, _____
 - NEW WORK SHOWN WITH HEAVY WEIGHT LINE, _____
 - REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

- SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
- INSTALL FCU WITHIN DECORATIVE ENCLOSURE. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON ENCLOSURE.
 - SUPPORT FROM WALL.
 - 3/4" D UP TO FCU.
 - CENTER AIR DEVICE WITHIN DECORATIVE ENCLOSURE. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
 - PROVIDE 2'-0" LONG R-5 IN WINDOW SILL ABOVE EXISTING RADIATOR ENCLOSURE.
 - PROVIDE 3'-4" LONG R-5 IN WINDOW SILL ABOVE EXISTING RADIATOR ENCLOSURE.



1 SECOND FLOOR - MECHANICAL - NEW WORK PLAN
M-102 / 1/4" = 1'-0"





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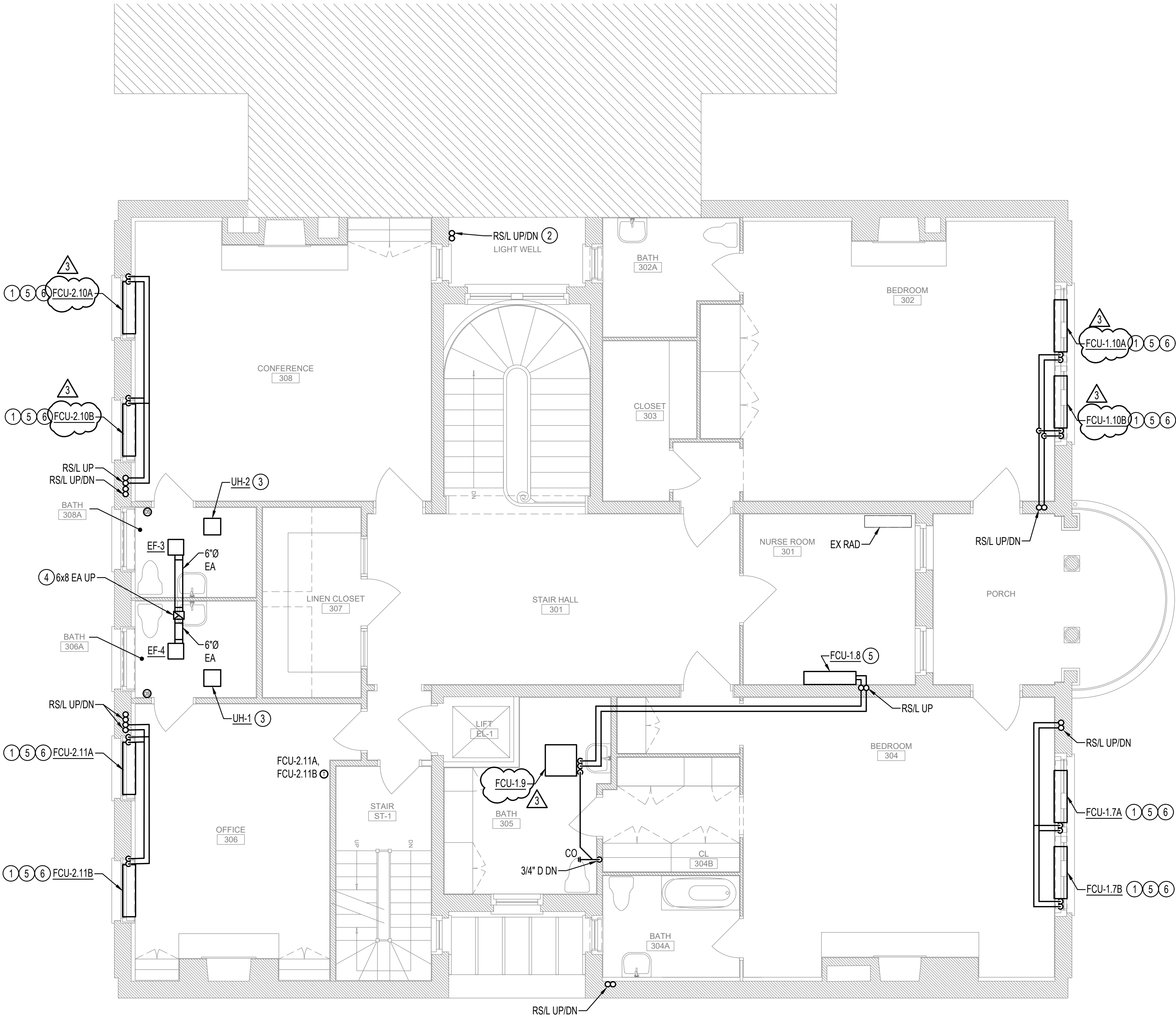
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)

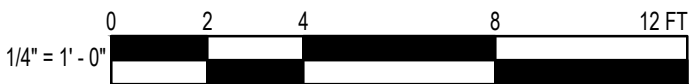
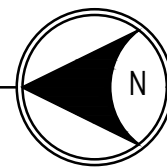
- EXISTING SHOWN WITH LIGHT WEIGHT LINE, _____
- NEW WORK SHOWN WITH HEAVY WEIGHT LINE, _____
- REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- INSTALL FCU WITHIN DECORATIVE ENCLOSURE. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON ENCLOSURE.
- SUPPORT FROM WALL
- MOUNT IN CEILING
- REUSE EXISTING ROOF PENETRATION.
- FLOOR MOUNTED
- PROVIDE 2'-0" LONG R-5 IN WINDOW SILL ABOVE EXISTING RADIATOR ENCLOSURE.



1 THIRD FLOOR - MECHANICAL - NEW WORK PLAN
M-103 / 1/4" = 1'-0"



SEAL | DATE

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SHEET TITLE
THIRD FLOOR -
MECHANICAL - NEW
WORK

SHEET NO.
M-103



National Trust for Historic Preservation

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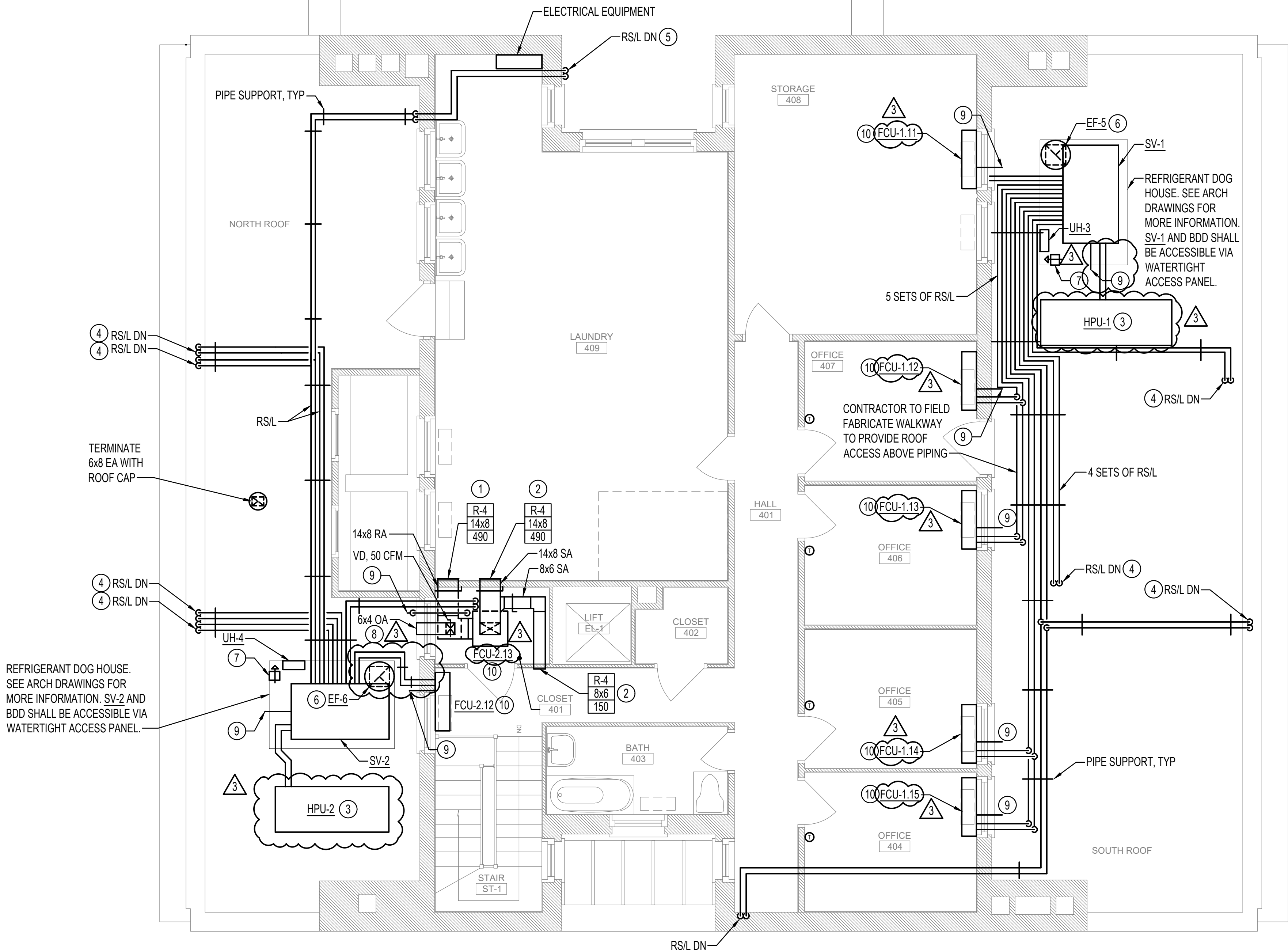
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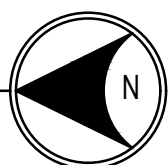
- EXISTING SHOWN WITH LIGHT WEIGHT LINE, _____
- NEW WORK SHOWN WITH HEAVY WEIGHT LINE, _____
- REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)

- MOUNT BOTTOM OF REGISTER 0'-4" AFF.
- MOUNT TOP OF REGISTER 0'-4" BELOW CEILING IN 409 LAUNDRY.
- MOUNT ON 18" HIGH EQUIPMENT RAILS.
- PROVIDE PIPE PORTAL.
- SUPPORT FROM WALL.
- MOUNT ON ROOF CURB.
- 6x6 EA WITH BIRDSCREEN AND BDD. MOUNT HIGH IN DOG HOUSE.
- TERMINATE WITH HOODED INTAKE WALL CAP WITH BIRDSCREEN.
- TERMINATE 3/4" D WITH 90 DEGREE ELBOW DOWN ONTO CONCRETE SPLASH BLOCK.
- FLOOR MOUNTED. PROVIDE DRAIN PAN BENEATH UNIT.



1
M-104
FOURTH FLOOR - MECHANICAL - NEW WORK PLAN
1/4" = 1'-0"



SEAL | DATE

SHEET ISSUE

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22-N005

SHEET TITLE

FOURTH FLOOR -
MECHANICAL - NEW
WORK

SHEET NO.

M-104



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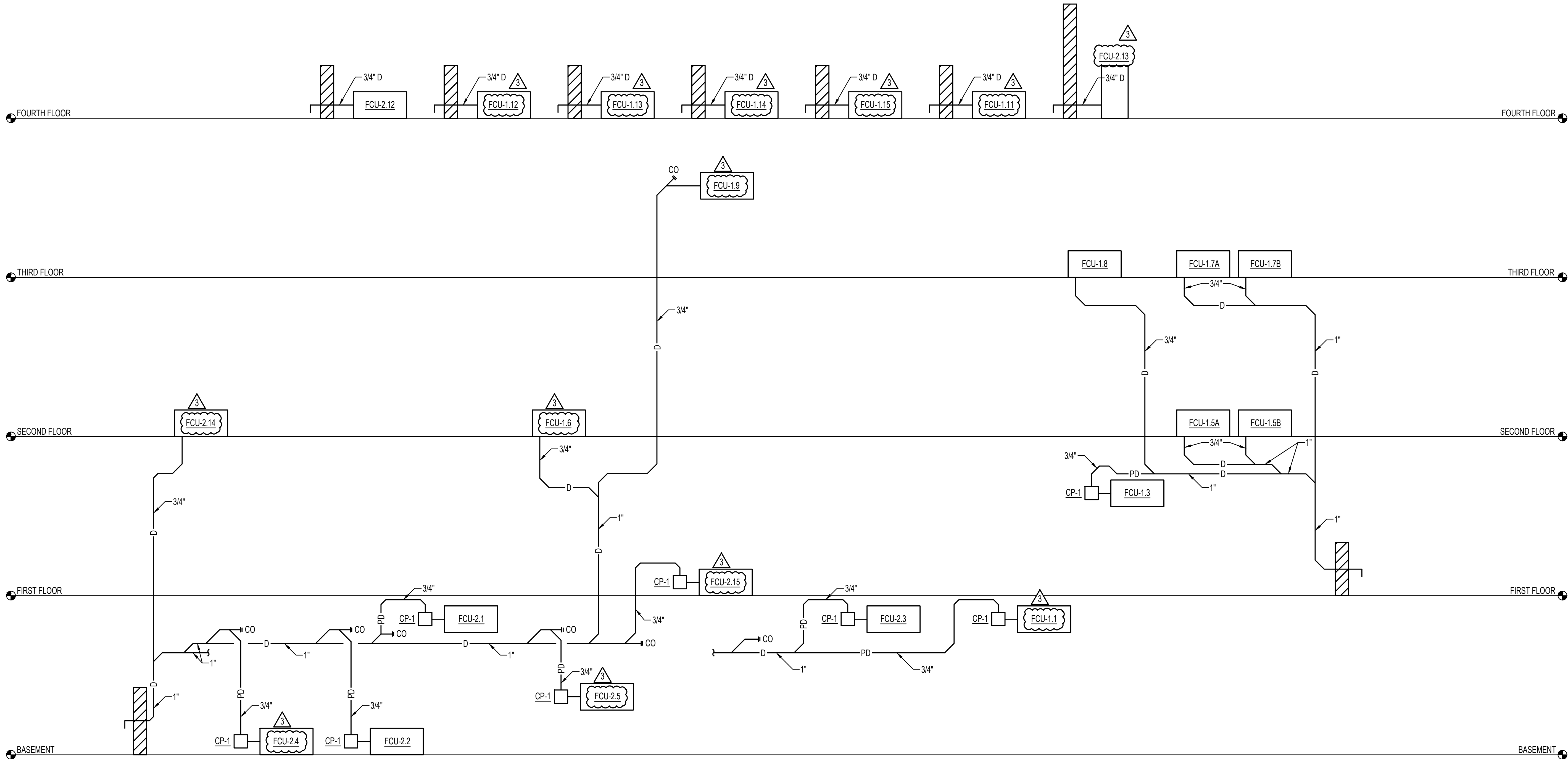
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1
M-601 NTS CONDENSATE RISER DIAGRAM 1

SEAL | DATE

SHEET ISSUE

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22-N005

SHEET TITLE

**CONDENSATE RISER
DIAGRAMS**

SHEET NO.

M-601



National Trust *for*
Historic Preservation

PROJECT
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Mechanical Systems Improvements

2340 S Street NW
Washington, DC 20008

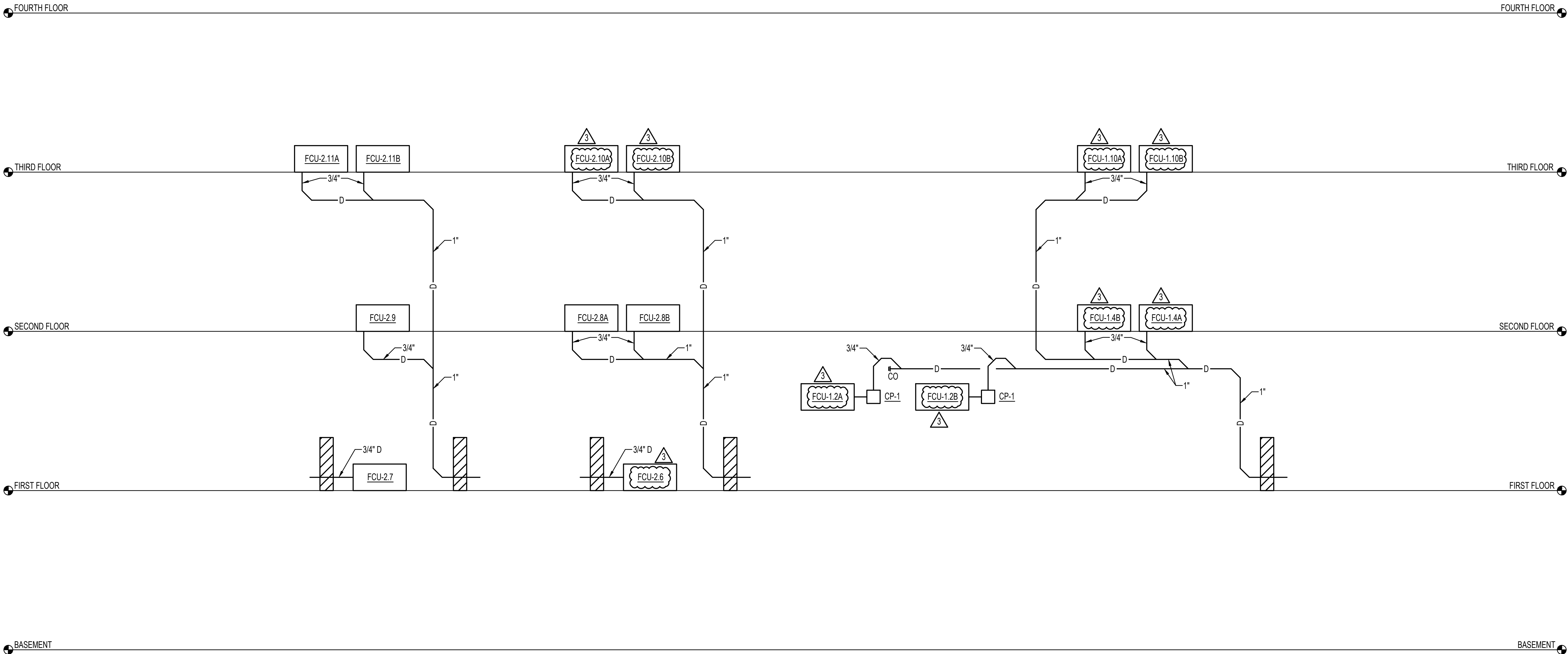
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1
M-602 NTS
CONDENSATE RISER DIAGRAM 2

SEAL | DATE

SHEET ISSUE		
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PROJ. NO.:

APPROVED BY: CEL

22-N005

SHEET TITLE

CONDENSATE RISER
DIAGRAMS

SHEET NO.

M-602

GENERAL NOTES: (APPLICABLE TO ALL MECHANICAL SCHEDULES)

1. UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIVIDUALLY.

2. UNIT SYMBOLS ARE INDICATED WHERE ALL UNITS ARE NOT LISTED AND NUMBERED INDIVIDUALLY.

3. UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.

4. TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.

5. AIR PRESSURE VALUES ARE LISTED IN INCHES OF WATER COLUMN.

6. AIR VELOCITY VALUES ARE LISTED IN FEET PER MINUTE.

7. DUCT AND PIPE SIZES ARE LISTED IN SINGLE-NUMBER INCHES OF NOMINAL DIAMETER OR MULTIPLE NUMBER INCHES OF INDICATED PARAMETER CONNECTION SIZES ARE BRANCH SIZES FROM MAINS TO UNIT INLETS. SINGLE PIPE SIZE IS TYPICAL FOR SUPPLY AND RETURN.

VARIABLE REFRIGERANT SHUTOFF VALVE BOXES						
UNIT NO	LOCATION	SERVICE	NO. OF PORTS	ELECTRICAL		NOTES
				V	PH	
SV-1	ROOF	HPU-1	6	208	1	
SV-2	ROOF	HPU-2	6	208	1	

NOTES FOR VARIABLE REFRIGERANT SHUTOFF VALVE BOXES:

1. CONTRACTOR TO NOTIFY ENGINEER OF EXACT LOCATION, PLACEMENT, AND MOUNTING HEIGH OF SHUTOFF VALVE BOX FOR FINAL ASHRAE 15-2022 COMPLIANCE CALCULATIONS.

CONDENSATE PUMPS								
UNIT SYMBOL	TYPE	LOCATION	SERVICE	FLUID	GPM	FPD	HP	NOTES
CP-1	P	FCU'S	CONDENSATE	WATER	0.5	10	1/30	

UNIT HEATERS - ELECTRIC											
UNIT NO	LOCATION	APPROX UNIT SIZE			CAPACITY MBH	EAT	ELEC KW	VOLTAGE	PHASE	BASIS OF DESIGN	NOTES
		W	H	D							
UH-1	306A BATH	15	20	6	5.0	65	1.5	208	1	TRANE MODEL UHAA	
UH-2	308A BATH	15	20	6	5.0	65	1.5	208	1	TRANE MODEL UHAA	
UH-3	ROOF	15	20	6	6.5	55	2.0	208	1	TRANE MODEL UHWA	
UH-4	ROOF	15	20	6	6.5	55	2.0	208	1	TRANE MODEL UHWA	

VARIABLE REFRIGERANT HEAT PUMP UNITS (NOTE 1, 2, 3)													
UNIT NO	LOCATION	SERVICE	CAPACITY				ELECTRICAL				MIN EER	MIN COP 17	NOTES
			COOLING		HEATING		MCA	MOCP	VOLTAGE	PHASE			
			TOTAL COOLING (MBH)	CONDENSER EAT	TOTAL HEATING (MBH)	CONDENSER EAT							
HPU-1	ROOF	VRF SYSTEM 1	125.0	95	101.0	0	51.5+36.4	60+45	208	3	10.6	2.25	
HPU-2	ROOF	VRF SYSTEM 2	99.0	95	96.0	0	36.6+36.6	45+45	208	3	10.6	2.25	

NOTES FOR VARIABLE REFRIGERANT HEAT PUMP UNITS:

1. A2L REFRIGERANT. R-32 OR R-454B.

2. REFRIGERANT PIPE SIZES AND ROUTING, REFRIGERANT CHARGE, ETC., SHALL BE PROVIDED BY THE MANUFACTURER.

3. CAPACITY INDICATED IS MINIMUM REQUIRED CAPACITY AFTER CORRECTIONS FOR DESIGN CONDITIONS, REFRIGERANT PIPE SIZES AND LENGTHS, AND OTHER CORRECTIONS HAVE BEEN TAKEN INTO ACCOUNT.

FANS											
UNIT NO	TYPE	LOCATION	SERVICE	CFM	CLASS	DRIVE	ESP	HP (WATTS)	RPM	NOTES	
EF-1	L	106ARR	REST ROOM EXHAUST	75	I	DIRECT	0.68	(46)	900		
EF-2	L	107A STOR	REST ROOM EXHAUST	75	I	DIRECT	0.68	(46)	900		
EF-3	L	306A BATH	REST ROOM EXHAUST	75	I	DIRECT	0.46	(16)	775		
EF-4	L	308A BATH	REST ROOM EXHAUST	75	I	DIRECT	0.46	(16)	775		
EF-5	N	ROOF	DOGHOUSE VENTILATION	125	I	BELT	0.30	1/6	1,800		
EF-6	N	ROOF	DOGHOUSE VENTILATION	125	I	BELT	0.30	1/6	1,800		

ENERGY RECOVERY VENITLATOR																								
UNIT NO	LOCATION	OA CFM	EA CFM	FAN				WHEEL PERFORMANCE																NOTES
				OA ESP	EA ESP	OA WATTS	EA WATTS	SUMMER								WINTER								
								SUPPLY AIR				EXHAUST AIR				SUPPLY AIR				EXHAUST AIR				
								EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	
ERV-1	005 BOILER ROOM	590	390	0.75	0.75	280	280	95.0	78.0	83.5	72.1	75.0	62.5	86.5	69.7	0.0	-1.0	49.3	41.6	70.0	59.0	41.9	41.1	

3

VARIABLE REFRIGERANT FAN COIL UNITS (NOTE 1, 2)																	
UNIT NO	SERVICE	ASSOCIATED HPU	UNIT TYPE	MAXIMUM RELEASEABLE	SUPPLY FAN			COOLING				HEATING		ELECTRICAL			NOTES
				REFRIGERANT CHARGE	CFM	ESP (IN WC)	OA CFM	TOTAL MBH	SENS MBH	EAT DB	EAT WB	TOTAL MBH	EAT DB	MCA	MOCP	VOLTAGE/PHASE	
				(lbs)													
FCU-1.1	111 KITCHEN	HPU-1	HORIZONTAL DUCTED	113.7	590	0.5	140	14.0	11.9	76.8	62.5	8.5	65.5	1.9	15	208/1	NOTE 3, 4
FCU-1.2A	108 EXHIBIT GALLERY	HPU-1	CASSETTE	63.6	320	-	115	9.6	7.5	77.2	62.5	4.6	64.7	0.4	15	208/1	NOTE 3
FCU-1.2B	108 EXHIBIT GALLERY	HPU-1	CASSETTE	63.6	320	-	115	9.6	7.5	77.2	62.5	4.6	64.7	0.4	15	208/1	NOTE 3
FCU-1.3	109 HALLWAY / 110 STOREROOM / 203 SOLARIUM	HPU-1	HORIZONTAL DUCTED	30.9	625	0.5	-	12.1	12.1	75.0	62.5	8.9	70.0	1.9	15	208/1	
FCU-1.4A	202 LIBRARY	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	60.5	270	-	-	4.9	4.94	75.0	62.5	5.9	70.0	0.4	15	208/1	
FCU-1.4B	202 LIBRARY	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	60.5	270	-	-	4.9	4.94	75.0	62.5	5.9	70.0	0.4	15	208/1	
FCU-1.5A	204 DINING ROOM	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	59.9	440	-	-	11.6	8.55	75.0	62.5	6.3	70.0	0.6	15	208/1	
FCU-1.5B	204 DINING ROOM	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	59.9	440	-	-	11.7	8.6	75.0	62.5	6.3	70.0	0.6	15	208/1	
FCU-1.6	206 PANTRY	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	40.4	270	-	-	2.5	2.1	75.0	62.5	1.9	70.0	0.4	15	208/1	
FCU-1.7A	304 MRS BEDROOM / 304B CLOSET / 304A BATHROOM	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	47.1	270	-	-	5.6	5.55	75.0	62.5	7.2	70.0	0.4	15	208/1	
FCU-1.7B	304 MRS BEDROOM / 304B CLOSET / 304A BATHROOM	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	47.1	270	-	-	5.6	5.6	75.0	62.5	7.2	70.0	0.4	15	208/1	
FCU-1.8	301 NURSES ROOM	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	11.3	270	-	-	1.9	1.9	75.0	62.5	2.4	70.0	0.4	15	208/1	
FCU-1.9	305 BATH	HPU-1	CASSETTE	10.1	320	-	-	1.4	1.4	75.0	62.5	1.5	70.0	0.4	15	208/1	
FCU-1.10A	302 PRESIDENT'S ROOM / 302A BATHROOM / 303 CLOSET	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	48.1	270	-	-	5.8	5.8	75.0	62.5	6.7	70.0	0.4	15	208/1	
FCU-1.10B	302 PRESIDENT'S ROOM / 302A BATHROOM / 303 CLOSET	HPU-1	FLOOR MOUNTED CONSOLE - CONCEALED	48.1	270	-	-	5.8	5.8	75.0	62.5	6.7	70.0	0.4	15	208/1	
FCU-1.11	408 STORAGE	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	18.7	270	-	-	6.2	6.2	75.0	62.5	7.5	70.0	0.4	15	208/1	
FCU-1.12	407 OFFICE	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	6.6	270	-	-	2.5	2.3	75.0	62.5	2.0	70.0	0.4	15	208/1	
FCU-1.13	406 OFFICE	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	6.6	270	-	-	3.0	2.8	75.0	62.5	2.1	70.0	0.4	15	208/1	
FCU-1.14	405 OFFICE	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	6.6	270	-	-	3.0	2.8	75.0	62.5	2.1	70.0	0.4	15	208/1	
FCU-1.15	404 OFFICE	HPU-1	FLOOR MOUNTED CONSOLE - EXPOSED	6.6	270	-	-	3.2	3	75.0	62.5	3.2	70.0	0.4	15	208/1	
FCU-2.1	102 ENTRANCE HALL / 106A RR / 107A STOR	HPU-2	HORIZONTAL DUCTED	49.7	395	0.5	75	6.4	4.8	77.1	62.5	4.5	68.4	0.9	15	208/1	NOTE 3
FCU-2.2	003 CORRIDOR	HPU-2	FLOOR MOUNTED CONSOLE - EXPOSED	49.6	270	-	-	0.4	0.4	75.0	62.5	0.0	70.0	0.4	15	208/1	
FCU-2.3	103 STAIR HALL	HPU-2	HORIZONTAL DUCTED	113.7	270	0.5	145	5.7	3.6	79.5	62.5	0.0	59.1	0.9	15	208/1	NOTE 3
FCU-2.4	005 BOILER ROOM	HPU-2	FLOOR MOUNTED CONSOLE - EXPOSED	49.7	270	-	-	4.1	4.1	75.0	62.5	7.1	70.0	0.4	15	208/1	
FCU-2.5	006 COAL BIN	HPU-2	WALL MOUNTED	49.7	285	-	-	1.4	1.4	75.0	62.5	2.4	70.0	0.2	15	208/1	
FCU-2.6	106 OFFICE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	24.3	270	-	-	4.1	4.1	75.0	62.5	6.9	70.0	0.4	15	208/1	
FCU-2.7	107 SHOP	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	16.5	270	-	-	5.6	5	75.0	62.5	5.6	70.0	0.4	15	208/1	
FCU-2.8A	205 DRAWING ROOM	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	67	270	-	-	10.9	7.75	75.0	62.5	6.6	70.0	0.6	15	208/1	
FCU-2.8B	205 DRAWING ROOM	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	67	270	-	-	10.9	7.8	75.0	62.5	6.6	70.0	0.6	15	208/1	
FCU-2.9	208 SERVING KITCHEN	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	40.4	440	-	-	8.4	7.6	75.0	62.5	8.0	70.0	0.6	15	208/1	
FCU-2.10A	308 CONFERENCE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	35.6	270	-	-	5.8	5.35	75.0	62.5	5.6	70.0	0.4	15	208/1	
FCU-2.10B	308 CONFERENCE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	35.6	270	-	-	5.8	5.35	75.0	62.5	5.6	70.0	0.4	15	208/1	
FCU-2.11A	306 OFFICE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	25.4	270	-	-	3.7	3.55	75.0	62.5	4.8	70.0	0.4	15	208/1	
FCU-2.11B	306 OFFICE	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	25.4	270	-	-	3.7	3.55	75.0	62.5	4.8	70.0	0.4	15	208/1	
FCU-2.12	401 HALL	HPU-2	FLOOR MOUNTED CONSOLE - EXPOSED	19.9	270	-	-	3.7	3.7	75.0	62.5	4.5	70.0	0.4	15	208/1	
FCU-2.13	409 LAUNDRY	HPU-2	VERTICAL	37	670	0.5	50	10.5	10.5	75.9	62.5	12.8	67.9	4.0	6	208/1	NOTE 3
FCU-2.14	201 STAIR HALL	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	40.9	270	-	-	1.5	1.5	75.0	62.5	0.0	70.0	0.4	15	208/1	
FCU-2.15	ST-1 STAIR	HPU-2	FLOOR MOUNTED CONSOLE - CONCEALED	22.3	270	-	-	6.6	6.6	75.0	62.5	10.2	70.0	0.4	15	208/1	

NOTES FOR VARIABLE REFRIGERANT FAN COIL UNITS:

1. UNITS SHALL BE INTERLOCKED/CONNECTED TO ASSOCIATED OUTDOOR UNIT.

2. A2L REFRIGERANT. R-32 OR R-454B.

3. OUTDOOR AIR IS PROVIDED TO SPACE THROUGH DUCTED SUPPLY TO RETURN PLENUM.

4. TEMPERATURE CONTROL VIA VRF CENTRAL CONTROLLER AND FCU RETURN AIR THERMISTOR.

5. TEMPERATURE CONTROL VIA WIRED THERMOSTAT.

6. TEMPERATURE CONTROL VIA WIRELESS THERMOSTAT.



National Trust for Historic Preservation

PROJECT

President Woodrow Wilson House
Mechanical Systems Improvements

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