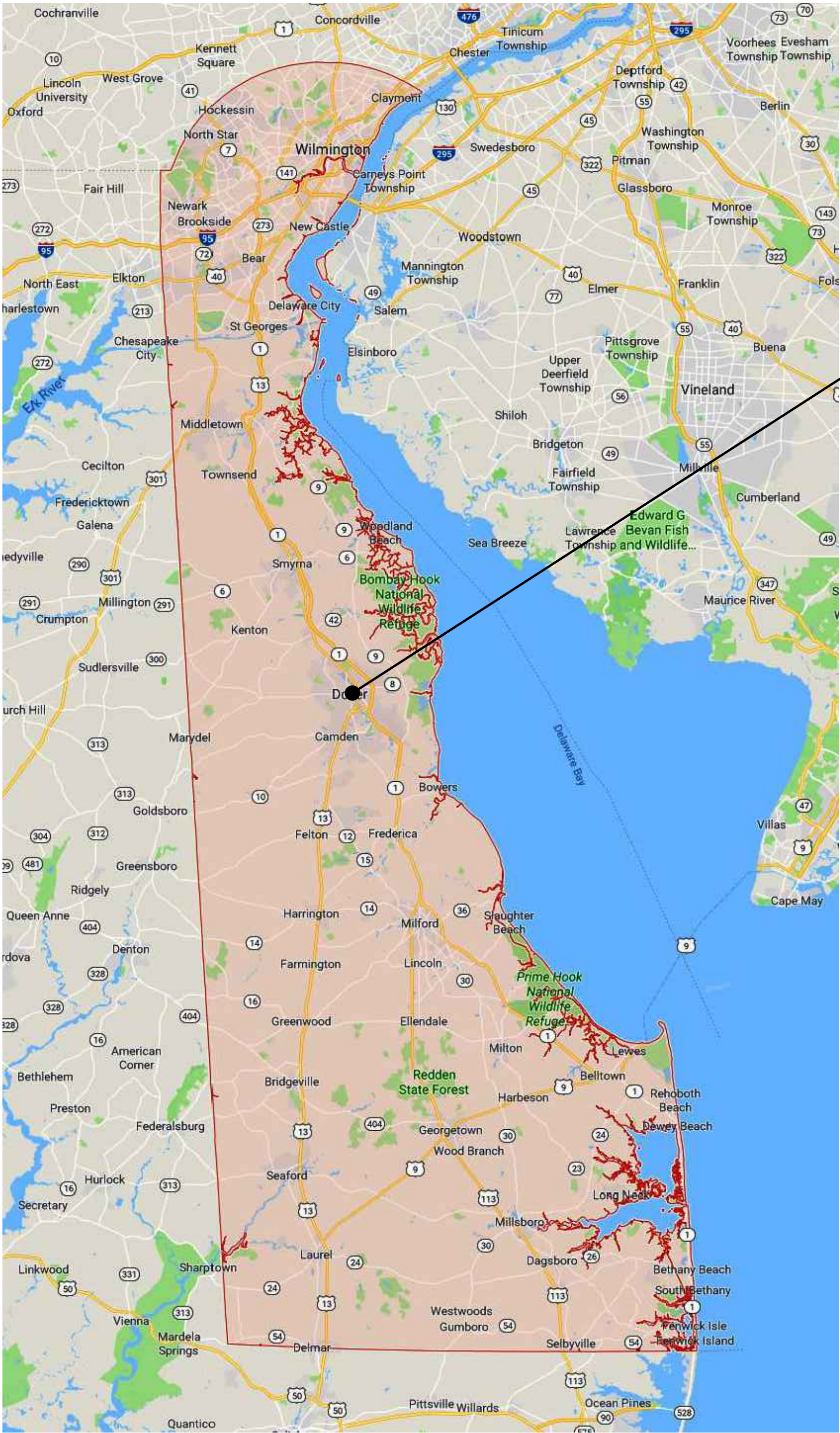


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4/29/2023 10:11 AM

STATE OF DELAWARE
OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C
EAST WING HVAC REPLACEMENT
AT THE
HIGHWAY ADMINISTRATION BUILDING
800 BAY ROAD
DOVER, DELAWARE 19901
FOR
DELAWARE DEPARTMENT OF TRANSPORTATION

PROJECT LOCATION MAPS

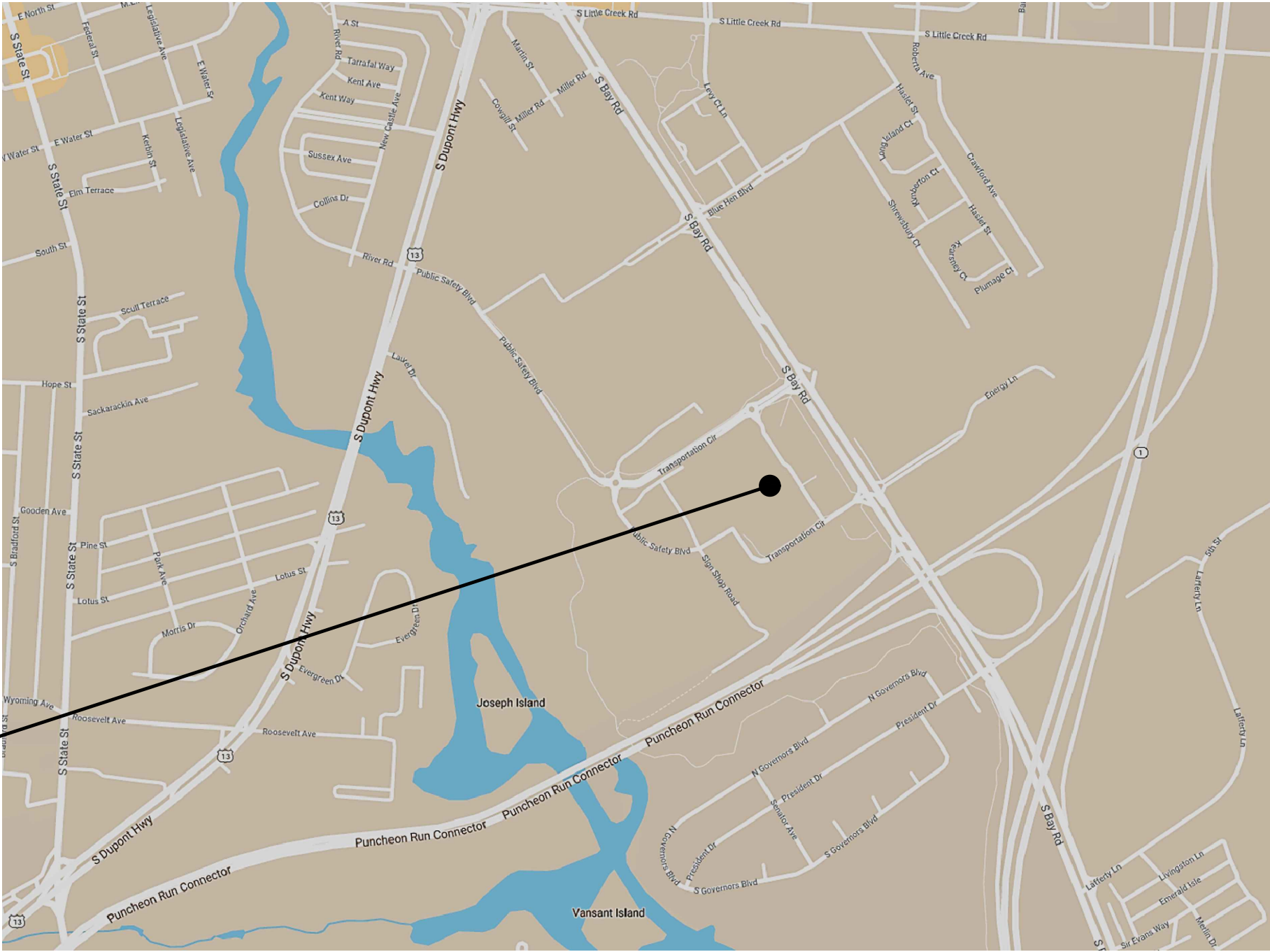


LOCATION MAP

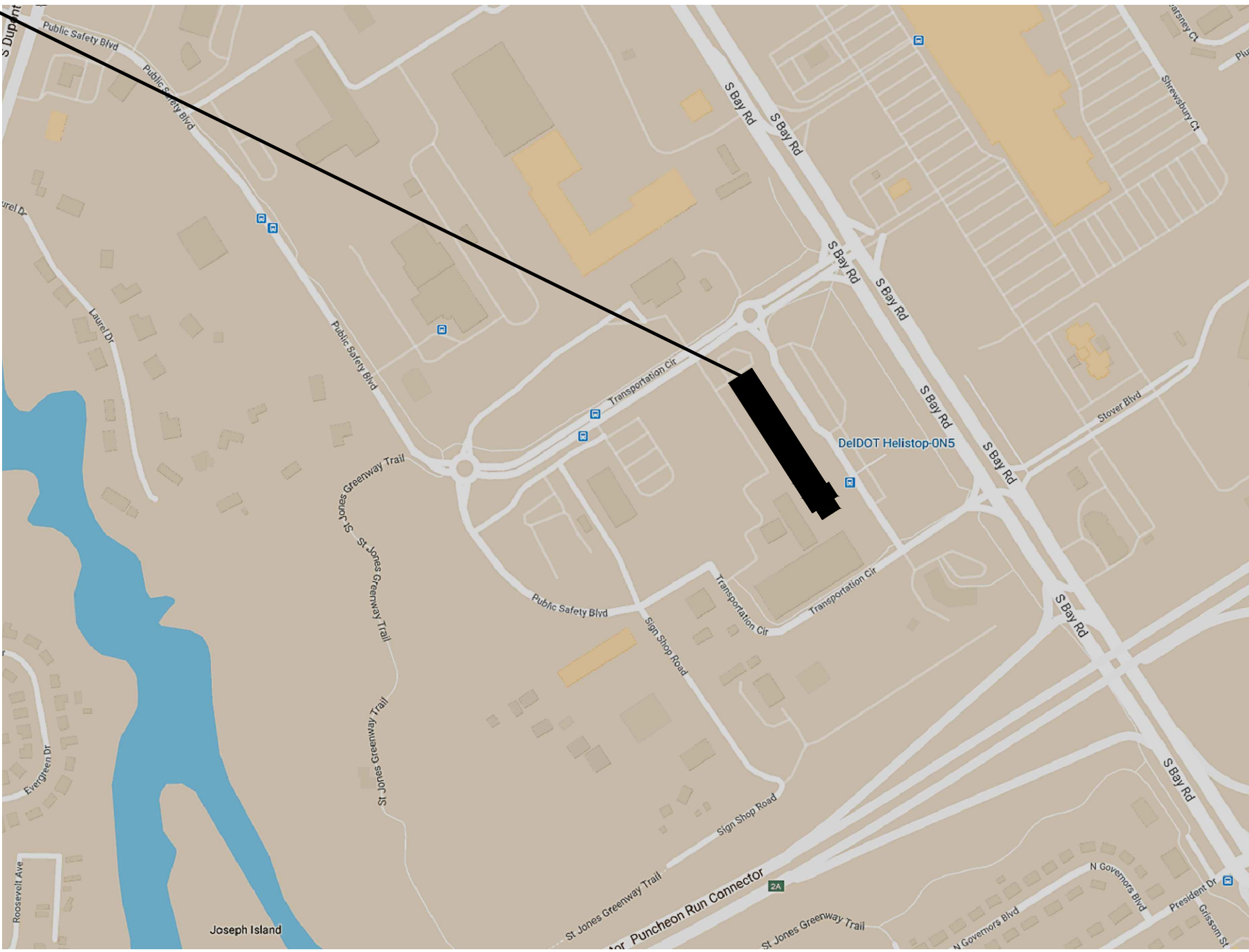
PROJECT LOCATION
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, DOVER, DELAWARE 19901
DOVER, DELAWARE 19901

SITE

DELDOT ADMINISTRATIVE BUILDING



AREA MAP

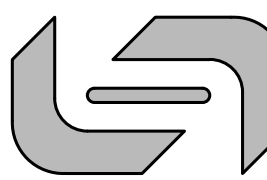


SITE MAP

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ARCHITECTURAL	
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E-501	ELECTRICAL PANEL SCHEDULES
E-600	TYPICAL DETAILS

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ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, DOVER, DELAWARE 19901

PROJECT

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE

PROJECT COVER SHEET

CODE INFORMATION

- APPLICABLE CODES AND STANDARDS
IBC 2009 IBC 2015 IBC 2018 IECC 2018
NFPA 101-2021 LIFE SAFETY CODE
DELAWARE STATE FIRE PREVENTION REGULATIONS - 2021
- PROJECT DATA
DELAWARE DEPARTMENT OF TRANSPORTATION
KENT COUNTY ADMINISTRATION BUILDING
800 BAY ROAD, DOVER, DELAWARE 19901
OCCUPANCY CLASSIFICATION: BUSINESS (B)
AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT BUILDING

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

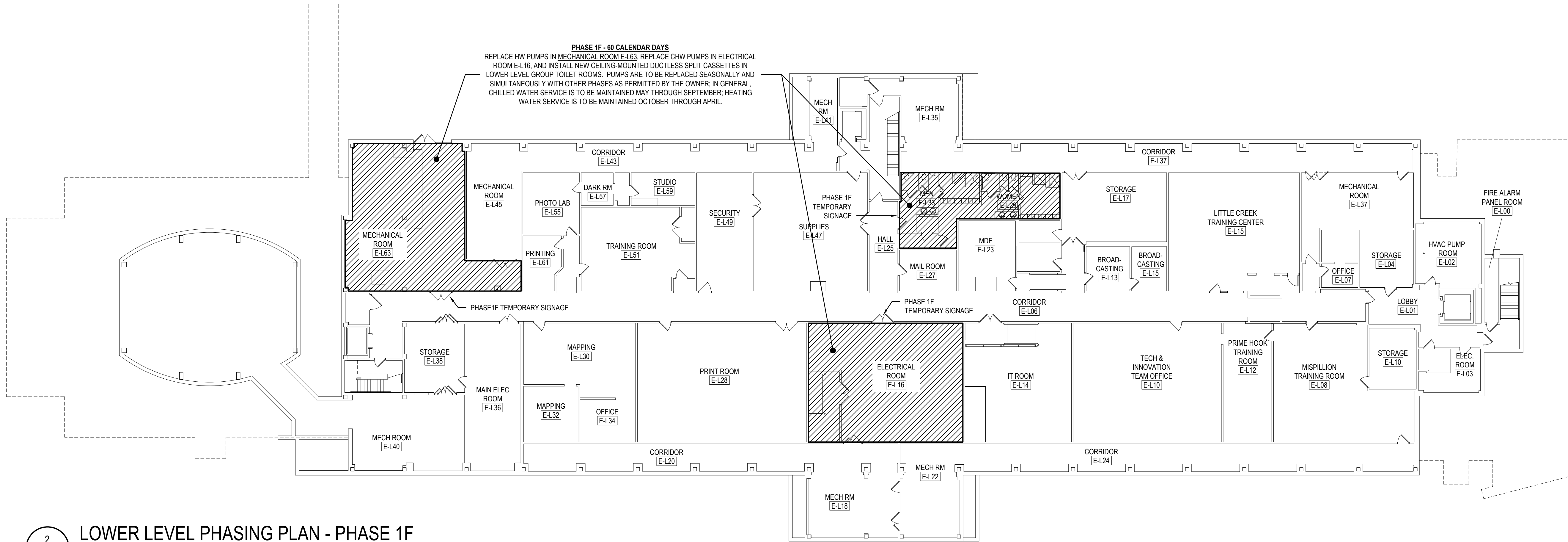
DRAWN DLS	CHKD DLS	PROJECT NO. 19121
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SHEET NO.

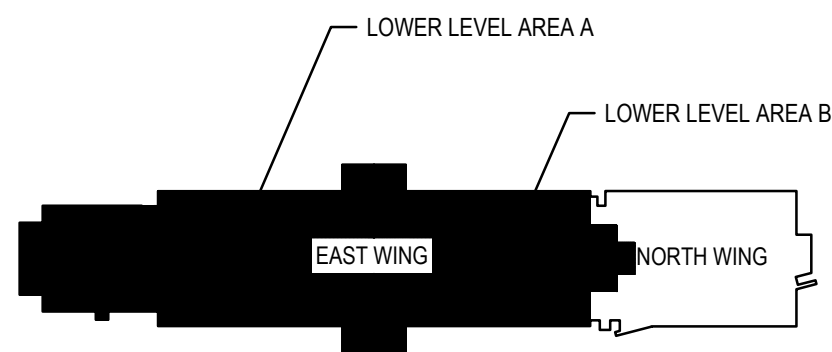
G-000

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4/25/2023 10:11 AM



2 LOWER LEVEL PHASING PLAN - PHASE 1F
G-100 SCALE: 1/16" = 1'-0"



LOWER LEVEL KEY PLAN
SCALE: NTS
PROJECT NORTH TRUE NORTH

- ### GENERAL PHASING NOTES
- CONTRACTOR TO STAGE WORK ONLY IN AREAS DESIGNATED BY THE OWNER AND PROVIDE TEMPORARY PARTITIONS AS REQUIRED TO MAINTAIN ACCESS FOR OCCUPANTS, AND ISOLATE AREAS OF WORK. TEMPORARY PARTITIONS SHALL BE ZIP-WALL OR EQUAL AND SHALL REMAIN ACCESSIBLE.
 - CONTRACTOR TO PROVIDE TEMPORARY SIGNAGE AS REQUIRED TO IDENTIFY WORK AREAS. SIGNAGE SHALL BE REMOVED AT CONCLUSION OF PHASE WITHOUT DAMAGE TO WALL OR DOOR SURFACE.
 - THE CONTRACTOR IS NOT TO BEGIN A NEW PHASE UNTIL THE PRIOR PHASE HAS BEEN COMPLETED TO THE SATISFACTION OF THE OWNER AND THE OWNER APPROVES THE COMMENCEMENT OF THE SUBSEQUENT PHASE. THE CONTRACTOR IS NOT TO REQUEST TO BEGIN A NEW PHASE UNTIL ALL MATERIALS NEEDED TO COMPLETE THE PHASE ARE IN THE CONTRACTOR'S POSSESSION.
 - CONTRACTOR TO EXTEND NEW WORK INTO FUTURE PHASES WITH ISOLATION VALVES AND SEAL/CAP AS REQUIRED TO AVOID DISRUPTION OF COMPLETED PHASES. THIS WORK MAY INCLUDE BUT NOT BE LIMITED TO PIPING, DUCTWORK, ELECTRICAL, BAS OR FIRE ALARM.
 - CONTRACTOR TO TEMPORARILY CONNECT NEW WORK TO EXISTING WORK AS REQUIRED TO MAINTAIN CONTINUITY OF BUILDING SYSTEMS AT ALL TIMES. THIS WORK MAY INCLUDE BUT NOT BE LIMITED TO PIPING, DUCTWORK, ELECTRICAL, BAS OR FIRE ALARM.
 - THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER REGARDING SCHEDULING OF WORK IN ALL AREAS. THE OWNER RESERVES THE RIGHT TO RESCHEDULE WORK WITH A MINIMAL NOTICE TO THE CONTRACTOR.
 - THE CONTRACTOR IS TO PROVIDE TEMPORARY PROTECTION FOR ALL SURFACES (WALLS AND FLOORS) EXPOSED TO WORK OR MATERIALS HANDLING ASSOCIATED TO WORK WITH RAM BOARD OR EQUAL (TO BE APPROVED BY OWNER PRIOR TO MOBILIZATION). ALL ENTRANCES TO WORK AREAS FROM OCCUPIED AREAS OR ENTRANCES ARE TO BE PROVIDED WITH TEAR-AWAY, REPLACEABLE ADHESIVE FOOT MATS.
 - PERSONAL ITEMS WILL BE REMOVED FROM OCCUPIED AREAS BY THE OWNER AND COMPUTERS WILL BE LOCATED IN A CENTRAL LOCATION WITHIN THE PHASE PRIOR TO THE START OF EACH PHASE. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FURNITURE AND OTHER ITEMS WITH PLASTIC OR FABRIC DROP CLOTHS. ANY DAMAGE TO EXISTING FURNITURE, ITEMS OR SURFACES AS A RESULT OF THE WORK WILL BE REPAIRED BY THE CONTRACTOR AT NO COST.
 - THE CONTRACTOR IS TO SUBMIT PROGRESS BALANCING REPORTS AT THE COMPLETION OF EACH PHASE AND SUBMIT A BALANCING REPORT AT THE COMPLETION OF THE PROJECT FOR ENGINEER REVIEW. THE BALANCING REPORT SUBMITTED AT PROJECT COMPLETION IS TO INCLUDE RE-BALANCING OF TERMINAL UNITS AND OTHER HVAC EQUIPMENT INSTALLED AND BALANCED DURING PREVIOUS PHASES.
 - WORK DESCRIBED AS BEING PERFORMED DURING UNOCCUPIED HOURS IS TO BE PERFORMED DURING OVERNIGHT, WEEKEND, AND/OR HOLIDAY HOURS AT OWNER'S OPTION. OCCUPIED HOURS ARE 7AM THROUGH 5PM, MONDAY THROUGH FRIDAY.
 - COMMISSIONING NOTES:
 - PHASING/SEQUENCE COMMISSIONING REQUIREMENTS: AT THE COMPLETION OF EACH PHASE, AND PRIOR TO THE OWNER MOVE IN/MOVE OUT TO PROCEED WITH THE SUBSEQUENT PHASE, PERFORMANCE AND FUNCTIONALITY OF THE CURRENT PHASES WORK WILL BE VALIDATED. FOR VALIDATION, THE CONTRACTOR SHALL SUBMIT REQUIRED COMMISSIONING DOCUMENTATION AT THE CONCLUSION OF EACH PHASE AS OUTLINED IN SPECIFICATION 01 91 13 PRIOR TO COMMENCEMENT OF SUBSEQUENT PHASES.
 - DOCUMENTATION, AS OUTLINED WITHIN 019113 SHALL INCLUDE THE FOLLOWING:
 - SUBMISSION OF COMPLETED CONSTRUCTION CHECKLISTS (CCCS) FOR EQUIPMENT AND DEVICES INSTALLED WITHIN THIS PHASE. CHECKLISTS WILL BE DEVELOPED BY THE CXA AND PROVIDED TO THE CONTRACTOR FOR COMPLETION.
 - SUBMISSION FOR REVIEW BY THE AE AND THE CXA BUILDING AND EQUIPMENT CONTROLS CHECKOUTS INCLUDING POINT-TO-POINT AND EQUIPMENT PROGRAMMING CHECK OUT REPORTS.
 - DRAFT TESTING AND BALANCING (TAB) REPORT FOR AIR AND WATER VALIDATING DESIGN VALUES ARE MET.
 - BUILDING AUTOMATION SYSTEM (BAS) TREND DATA FOR POINTS DESIGNATED TO BE TRENDED FOR THE INSTALLED EQUIPMENT AS INDICATED WITHIN SPECIFICATION SECTION 23 09 59. POINTS TO BE TRENDED WILL BE IDENTIFIED BY THE CXA PRIOR TO COMMENCEMENT OF THE PHASE.
 - CONTRACTOR SHALL INCLUDE WITHIN THEIR CONSTRUCTION SCHEDULE TIME TO DEVELOP, SUBMIT, AND TIME FOR REVIEW OF THESE ITEMS. APPROVAL OF THESE ITEMS IS A PREREQUISITE BEFORE THE OWNER TO CONDUCT MOVE-IN ACTIVITIES INTO THE PHASING AREA.
 - UPON COMPLETION OF ALL WORK WITHIN A GIVEN PHASE INCLUDING REPLACEMENT OF THE ASSOCIATED AIR HANDLING UNITS, ALL EQUIPMENT WITHIN THE GIVEN PHASE WILL UNDERGO TESTING AND VALIDATION AS INDICATED IN SPECIFICATION 019113 INCLUDING FUNCTIONAL PERFORMANCE TESTING (FPT)

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DATE OF SIGNATURE: _____
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ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. MJ551100003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, DOVER, DELAWARE 19901

PROJECT

REVISIONS

MARK	DESCRIPTION	DATE

SHEET TITLE

LOWER LEVEL PHASING
PLAN

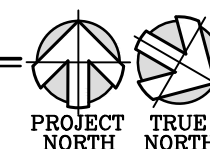
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DOCUMENTS

FEBRUARY 14, 2023

DRAWN JRB	CHKD DLS	PROJECT NO. 19121
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SHEET NO.

G-100



1. CONTRACTOR TO STAGE WORK ONLY IN AREAS DESIGNATED BY THE OWNER AND PROVIDE TEMPORARY PARTITIONS AS REQUIRED TO MAINTAIN ACCESS FOR OCCUPANTS, AND ISOLATE AREAS OF WORK. TEMPORARY PARTITIONS SHALL BE ZIP-WALL OR EQUAL AND SHALL REMAIN ACCESSIBLE.
2. CONTRACTOR TO PROVIDE TEMPORARY SIGNAGE AS REQUIRED TO IDENTIFY WORK AREAS. SIGNAGE SHALL BE REMOVED AT CONCLUSION OF PHASE WITHOUT DAMAGE TO WALL OR DOOR SURFACE.
3. THE CONTRACTOR IS NOT TO BEGIN A NEW PHASE UNTIL THE PRIOR PHASE HAS BEEN COMPLETED TO THE SATISFACTION OF THE OWNER AND THE OWNER APPROVES THE COMMENCEMENT OF THE SUBSEQUENT PHASE. THE CONTRACTOR IS NOT TO REQUEST TO BEGIN A NEW PHASE UNTIL ALL MATERIALS NEEDED TO COMPLETE THE PHASE ARE IN THE CONTRACTOR'S POSSESSION.
4. CONTRACTOR TO EXTEND NEW WORK INTO FUTURE PHASES WITH ISOLATION VALVES AND SEAL-UP REQUIRED AND OBSERVATION OF FUTURE PHASES. THIS WORK MAY INCLUDE BUT NOT BE LIMITED TO PIPING, DUCTWORK, ELECTRICAL, GAS OR FIRE ALARM.
5. CONTRACTOR TO TEMPORARILY CONNECT NEW WORK TO EXISTING WORK AS REQUIRED TO MAINTAIN CONTINUITY OF BUILDING SYSTEMS AT ALL TIMES. THIS WORK MAY INCLUDE BUT NOT BE LIMITED TO PIPING, DUCTWORK, ELECTRICAL, GAS OR FIRE ALARM.
6. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER REGARDING SCHEDULING OF WORK IN ALL AREAS. THE OWNER RESERVES THE RIGHT TO RESCHEDULE WORK WITH A MINIMAL NOTICE TO THE CONTRACTOR.
7. THE CONTRACTOR IS TO PROVIDE TEMPORARY PROTECTION FOR ALL SURFACES (WALLS AND FLOORS) EXPOSED TO WORK OR MATERIALS HANDLING ASSOCIATED TO WORK WITH RAMP BOARD OR EQUAL. TO BE APPROVED BY THE OWNER PRIOR TO MODIFICATION. ALL ENTRANCES TO WORK AREAS FROM OCCUPIED AREAS OR ENTRANCES ARE TO BE PROVIDED WITH TEAR-AWAY, REPLACEABLE ADHESIVE FOOT MATS.
8. PERSONAL ITEMS WILL BE REMOVED FROM OCCUPIED AREAS BY THE OWNER AND COMPUTERS WILL BE LOCATED IN A CENTRAL LOCATION WITHIN THE PHASE PRIOR TO THE START OF EACH PHASE. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FURNITURE AND OTHER ITEMS FROM DAMAGE OR LOSS. LOSS OF, OR DAMAGE TO, EXISTING FURNITURE, ITEMS OR SURFACES AS A RESULT OF THE WORK WILL BE REPAIRED BY THE CONTRACTOR AT NO COST.
9. THE CONTRACTOR IS TO SUBMIT PROGRESS BALANCING REPORTS AT THE COMPLETION OF EACH PHASE AND SUBMIT A BALANCING REPORT AT THE COMPLETION OF THE PROJECT FOR ENGINEER REVIEW. THE BALANCING REPORT SUBMITTED AT PROJECT COMPLETION IS TO INCLUDE RE-BALANCING OF TERMINAL UNITS AND OTHER HVAC EQUIPMENT INSTALLED AND BALANCED DURING PREVIOUS PHASES.
10. WORK DESCRIBED AS BEING PERFORMED DURING UNOCCUPIED HOURS IS TO BE PERFORMED DURING OVERNIGHT, WEEKEND, AND/OR HOLIDAY HOURS AT OWNER'S OPTION. OCCUPIED HOURS ARE 7AM THROUGH 5PM, SUNDAY THROUGH FRIDAY.
11. COMMISSIONING NOTES:
 - 11.1. PHASING/SEQUENCE COMMISSIONING REQUIREMENTS. AT THE COMPLETION OF EACH PHASE AND PRIOR TO THE OWNER MOVE INNOVATE OUT TO PROCEED WITH THE SUBSEQUENT PHASE, PERFORMANCE AND FUNCTIONALITY OF THE CURRENT PHASES WORK WILL BE VALIDATED. FOR VALIDATION, THE CONTRACTOR SHALL SUBMIT REQUIRED COMMISSIONING DOCUMENTATION AT THE CONCLUSION OF EACH PHASE AS OUTLINED IN SPECIFICATION 9.11.13 PRIOR TO COMMENCEMENT OF SUBSEQUENT PHASES.
 - 11.2. DOCUMENTATION AS OUTLINED WITHIN 9.11.13 SHALL INCLUDE THE FOLLOWING:
 - 11.2.1. SUBMISSION OF COMPLETED CONSTRUCTION CHECKLISTS (CCCS) FOR EQUIPMENT AND DEVICES INSTALLED WITHIN THIS PHASE. CHECKLISTS WILL BE DEVELOPED BY THE CXA AND PROVIDED TO THE CONTRACTOR FOR COMPLETION.
 - 11.2.2. SUBMISSION FOR REVIEW BY THE A/E AND THE CXA BUILDING AND EQUIPMENT CONTROLS CHECKOUTS INCLUDING POINT-TO-POINT AND EQUIPMENT PROGRAMMING CHECK OUTS REPORTS.
 - 11.2.3. DRAFT TESTING AND BALANCING (TAB) REPORT FOR AIR AND WATER VALIDATING DESIGN VALUES ARE MET.
 - 11.2.4. BUILDING AUTOMATION SYSTEM (BAS) TREND DATA FOR POINTS DESIGNATED TO BE TRENDED FOR THE INSTALLED EQUIPMENT AS INDICATED WITHIN SPECIFICATION SECTION 2.02.09. POINTS TO BE TRENDED WILL BE IDENTIFIED BY THE CXA PRIOR TO COMMENCEMENT OF THE PHASE.
- 11.3. CONTRACTOR SHALL INCLUDE WITHIN THEIR CONSTRUCTION SCHEDULE A TIME TO DEVELOP, SUBMIT, AND REVIEW OF THESE ITEMS. APPROVAL OF THESE ITEMS IS A PREREQUISITE BEFORE THE OWNER TO CONDUCT MOVE-IN ACTIVITIES INTO THE PHASING AREA.
- 11.4. UPON COMPLETION OF ALL WORK WITHIN A GIVEN PHASE INCLUDING REPLACEMENT OF THE ASSOCIATED AIR HANDLING UNITS, ALL EQUIPMENT WITHIN THE GIVEN PHASE WILL UNDERGO COMMISSIONING AND VALIDATION. COMMISSIONING INCLUDING SPECIFICATION 09.11.3 AND INCLUDING FUNCTIONAL PERFORMANCE TESTING (FPT).

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ARCHITECT) NO CONTRACTUAL OBLIGATION IS
ASSUMED BY THE ARCHITECT FOR THE BENEFIT
OF ANY OTHER PERSON INVOLVED IN THE
PROJECT.

SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, DOVER, DELAWARE 19901

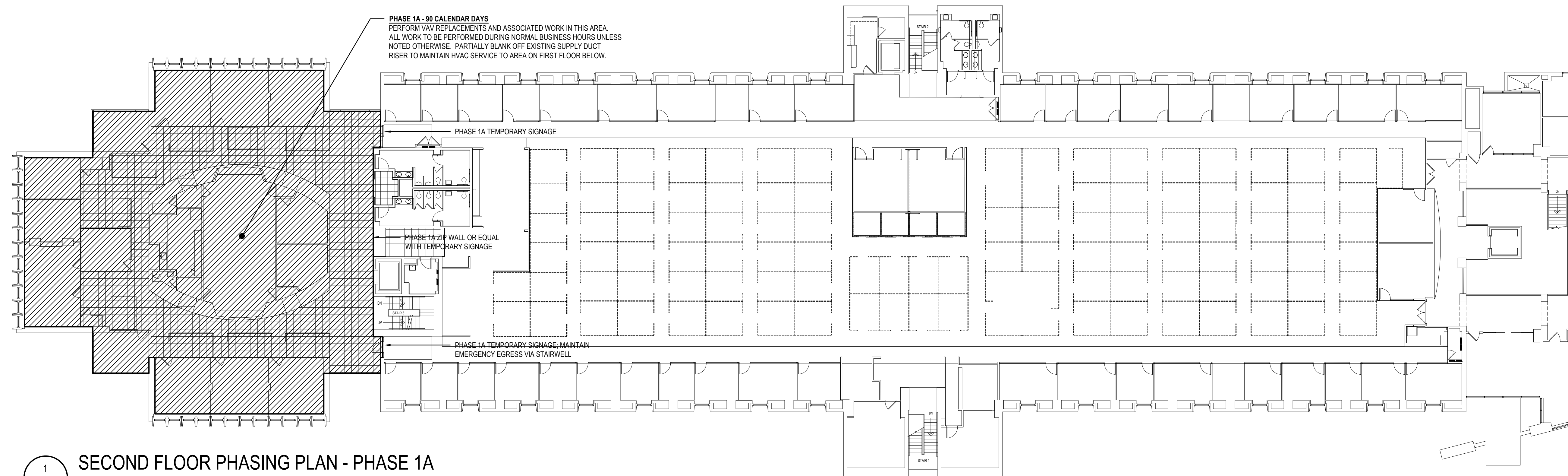
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FIRST FLOOR PHASING
PLAN

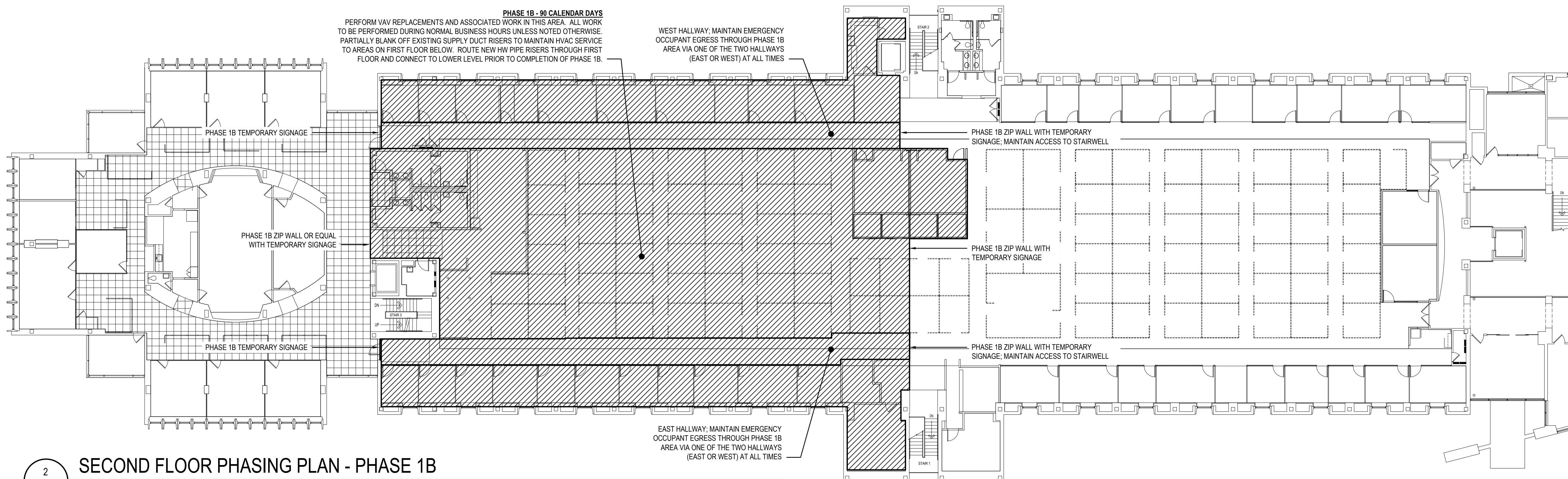
**BIDDING
DOCUMENTS**
FEBRUARY 14, 2023

DRAWN	CHK'D	PROJECT NO.
JRB	DLS	19121
SHEET NO.		

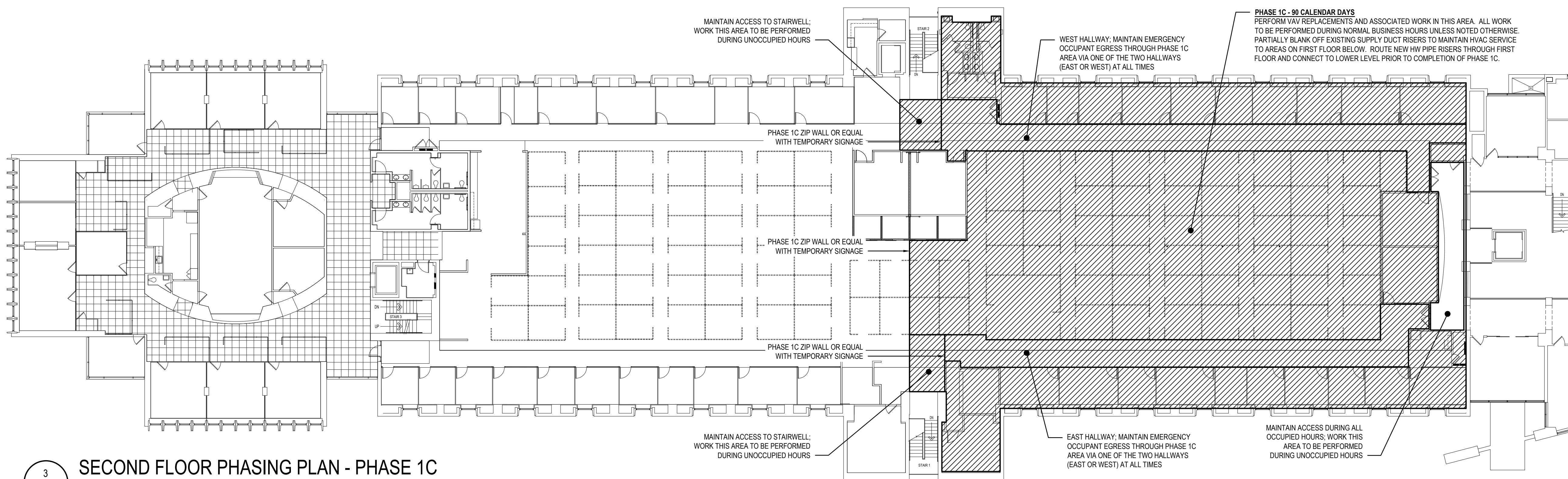
G-101



1 SECOND FLOOR PHASING PLAN - PHASE 1A
G-102 SCALE: 1/16" = 1'-0"



2 SECOND FLOOR PHASING PLAN - PHASE 1B
G-102 SCALE: 1/16" = 1'-0"



3 SECOND FLOOR PHASING PLAN - PHASE 10
G-102 SCALE: 1/16" = 1'-0"

GENERAL PHASING NOTES

1. CONTRACTOR TO STAGE WORK ONLY IN AREAS DESIGNATED BY THE OWNER AND PROVIDE TEMPORARY PARTITIONS AS REQUIRED TO MAINTAIN ACCESS FOR OCCUPANTS, AND ISOLATE AREAS OF WORK. TEMPORARY PARTITIONS SHALL BE ZIP-WALL OR EQUAL AND SHALL REMAIN ACCESSIBLE.
2. CONTRACTOR TO PROVIDE TEMPORARY SIGNAGE AS REQUIRED TO IDENTIFY WORK AREAS. SIGNAGE SHALL BE REMOVED AT CONCLUSION OF PHASE WITHOUT DAMAGE TO WALL OR DOOR SURFACE.
3. THE CONTRACTOR IS NOT TO BEGIN A NEW PHASE UNTIL THE PRIOR PHASE HAS BEEN COMPLETED TO THE SATISFACTION OF THE OWNER AND THE OWNER APPROVES THE COMMENCEMENT OF THE SUBSEQUENT PHASE. THE CONTRACTOR IS NOT TO REQUEST TO BEGIN A NEW PHASE UNTIL ALL MATERIALS NEEDED TO COMPLETE THE PHASE ARE IN THE CONTRACTOR'S POSSESSION.
4. CONTRACTOR TO EXTEND NEW WORK INTO FUTURE PHASES WITH ISOLATION VALVES AND SEALCAP AS REQUIRED TO AVOID DISRUPTION OF COMPLETED PHASES. THIS WORK MAY INCLUDE BUT NOT BE LIMITED TO PIPING, DUCTWORK, ELECTRICAL, GAS OR FIRE ALARM.
5. CONTRACTOR TO TEMPORARILY CONNECT NEW WORK TO EXISTING WORK AS REQUIRED TO MAINTAIN CONTINUITY OF ALL SYSTEMS AT ALL TIMES. THIS WORK MAY INCLUDE BUT NOT BE LIMITED TO PIPING, DUCTWORK, ELECTRICAL, GAS OR FIRE ALARM.
6. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER REGARDING SCHEDULING OF WORK IN ALL AREAS THE OWNER RESERVES THE RIGHT TO RESCHEDULE WORK WITH A MINIMAL NOTICE TO THE CONTRACTOR.
7. THE CONTRACTOR IS TO PROVIDE TEMPORARY PROTECTION FOR ALL SURFACES (WALLS AND FLOORS) EXPOSED TO WORK OR MATERIALS HANDLING ASSOCIATED TO WORK WITH RAMP BOARD OR EQUAL (TO BE APPROVED BY OWNER PRIOR TO MOBILIZATION). ALL ENTRANCES TO WORK AREAS FROM OCCUPIED AREAS OR LANCES ARE TO BE PROVIDED WITH TEAR-AWAY REPLACEMENT ADHESIVE FOOT MATS.
8. PERSONAL ITEMS WILL BE REMOVED FROM OCCUPIED AREAS BY THE OWNER AND COMPUTERS WILL BE LOCATED IN A CENTRAL LOCATION WITHIN THE PHASE PRIOR TO THE START OF EACH PHASE. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FURNITURE AND OTHER ITEMS WITH PLASTIC OR FABRIC COVERINGS OR LANCES ARE TO BE PROVIDED WITH TEAR-AWAY REPLACEMENT ADHESIVE FOOT MATS.
9. THE CONTRACTOR IS TO SUBMIT PROGRESS BALANCING REPORTS AT THE COMPLETION OF EACH PHASE AND SUBMIT A BALANCING REPORT AT THE COMPLETION OF THE PROJECT FOR ENGINEER REVIEW. THE BALANCING REPORT SUBMITTED AT PROJECT COMPLETION IS TO INCLUDE RE-BALANCING OF TERMINAL UNITS AND OTHER HVAC EQUIPMENT INSTALLED AND BALANCED DURING PREVIOUS PHASES.
10. WORK DESCRIBED AS BEING PERFORMED DURING UNOCCUPIED HOURS IS TO BE PERFORMED DURING OVERNIGHT, WEEKEND, AND/OR HOLIDAY HOURS AT OWNER'S OPTION. OCCUPIED HOURS ARE 7AM THROUGH 5PM MONDAY THROUGH FRIDAY.
11. COMMISSIONING NOTES:
 - 11.1. PHASING/SEQUENCE COMMISSIONING REQUIREMENTS: AT THE COMPLETION OF EACH PHASE AND PRIOR TO THE OWNER MOVE INNOVATE OUT TO PROCEED WITH THE SUBSEQUENT PHASE, PERFORMANCE AND FUNCTIONALITY OF THE CURRENT PHASES WORK WILL BE VALIDATED. FOR VALIDATION, THE CONTRACTOR SHALL SUBMIT REQUIRED COMMISSIONING DOCUMENTATION AT THE COMPLETION OF EACH PHASE AS OUTLINED IN SPECIFICATION 01.19.13 PRIOR TO COMMENCEMENT OF SUBSEQUENT PHASES.
 - 11.2. DOCUMENTATION AS OUTLINED WITHIN 019113 SHALL INCLUDE THE FOLLOWING:
 - 11.2.1. SUBMISSION OF COMPLETED CONSTRUCTION CHECKLISTS (CCCS) FOR EQUIPMENT AND DEVICES INSTALLED WITHIN THIS PHASE OUT. CHECKLISTS WILL BE DEVELOPED BY THE CXXA AND PROVIDED TO THE CONTRACTOR FOR COMPLETION.
 - 11.2.2. PREPARATION FOR REVIEW BY THE A/E AND THE CXXA BUILDING AND EQUIPMENT CONTROLS CHECKOUTS INCLUDING POINT-TO-POINT AND EQUIPMENT PROGRAMMING CHECK OUT REPORTS.
 - 11.2.3. DRAFT TESTING AND BALANCING (TAB) REPORT FOR AIR AND WATER VALIDATING DESIGN VALUES ARE MET.
 - 11.2.4. BUILDING AUTOMATION SYSTEM (BAS) TREND DATA FOR POINTS DESIGNATED TO BE TRENDED FOR THE INSTALLED EQUIPMENT AS INDICATED WITHIN SPECIFICATION SECTION 29.05.99. POINTS TO BE TRENDED WILL BE IDENTIFIED BY THE CXXA PRIOR TO COMMENCEMENT OF THE PHASE.
- 11.3. CONTRACTOR SHALL INCLUDE WITHIN THEIR CONSTRUCTION SCHEDULE TIME TO DEVELOP, SUBMIT AND TIME FOR REVIEW OF THESE ITEMS. APPROVAL OF THESE ITEMS IS A PREREQUISITE BEFORE THE OWNER TO CONDUCT MOVE-IN ACTIVITIES INTO THE PHASING AREA.
- 11.4. UPON COMPLETION OF ALL WORK WITHIN A GIVEN PHASE INCLUDING REPLACEMENT OF THE ASSOCIATED AIR HANDLING UNITS, ALL EQUIPMENT WITHIN THE GIVEN PHASE WILL UNDERGO PERFORMANCE TESTING.

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SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFWM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

[illegible]

SHEET TITLE

SECOND FLOOR PHASING PLAN

**BIDDING
DOCUMENTS**
FEBRUARY 14, 2023

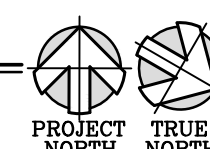
DRAWN	CHK'D	PROJECT NO.
JRB	DLS	19121
SHEET NO.		

SHEET NO. _____

G-102

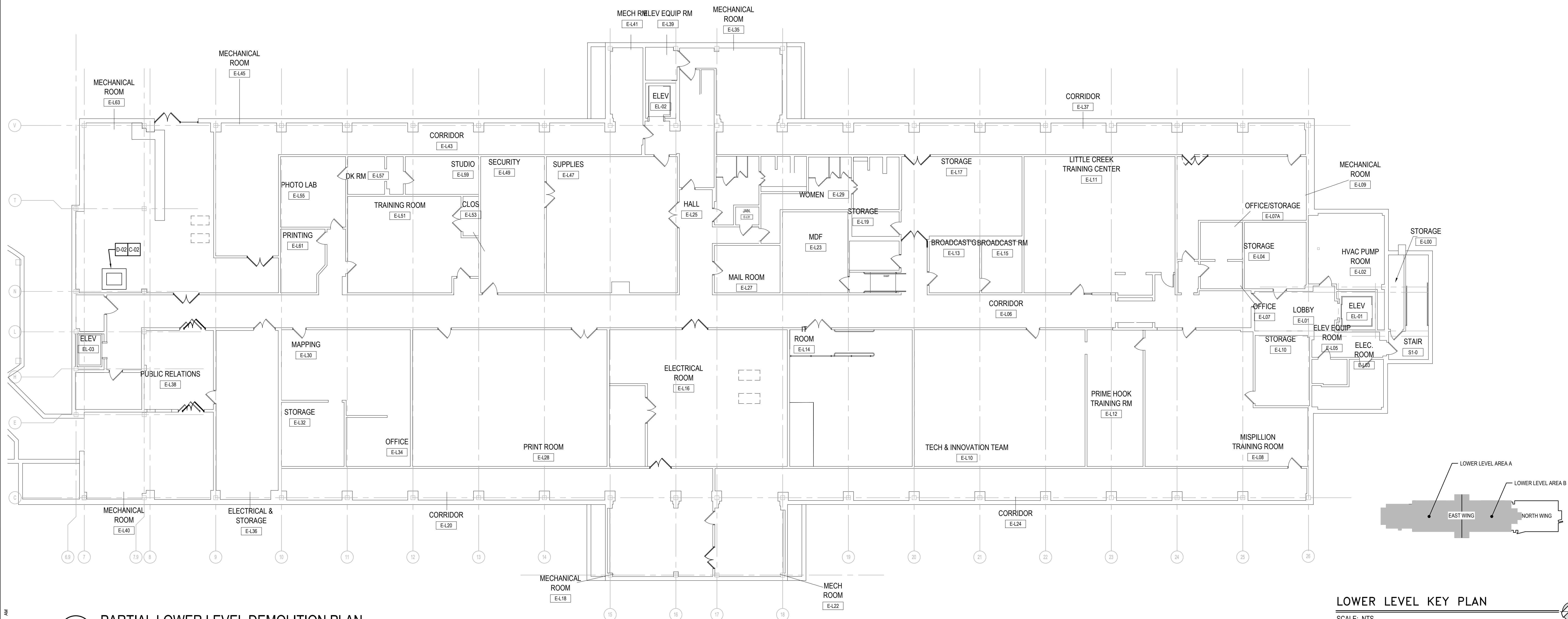
SECOND FLOOR KEY PLAN

SCALE: NTS



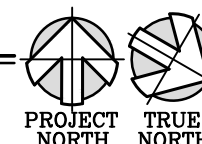
[illegible]

DEMOLITION KEY NOTES		GENERAL DEMOLITION NOTES	
D-01	NOT USED THIS SHEET	1.	DEMOLITION WORK AS SHOWN DASHED ON DRAWING IS TO INDICATE, IN A GENERAL MANNER, THE REMOVAL OF EXISTING CONSTRUCTION AND IS NOT INTENDED TO BE ALL INCLUSIVE. PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE OR INSTALL NEW WORK.
D-02	DEMOLISH AND DISPOSE OF MASONRY CHIMNEY.	2.	EXERCISE CARE TO PREVENT ANY DAMAGE TO EXISTING CONDITIONS, UTILITIES, BUILDING ELEMENTS, AND FINISHES. INCLUDING, BUT NOT LIMITED TO CONCRETE SLABS, FINISH FLOORING, EXTERIOR & INTERIOR WALLS AND FINISHES THAT ARE TO REMAIN. DAMAGED ITEMS SHALL BE REMOVED AND PROMPTLY RETURNED TO SERVICE OR PATCHED/ REPLACED WITH NEW MATERIALS TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
CONSTRUCTION KEY NOTES		3.	ALL AREAS AND PARTITIONS NOT DASHED OR NOTED TO BE REMOVED SHALL REMAIN INTACT. PATCH AND REPAIR EXISTING ADJACENT PARTITIONS AND FINISHES AS REQUIRED AFTER DEMOLITION TO MATCH EXISTING OR IN ACCORDANCE W/ PROPOSED RENOVATIONS.
C-01	NOT USED THIS SHEET	4.	PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR OTHER SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF ELEMENTS TO BE DEMOLISHED AND ADJACENT EXISTING ELEMENTS TO REMAIN.
C-02	LEVEL EXISTING CONCRETE SLAB AND FINISH WITH NEW CONCRETE FOLLOWING REMOVAL OF MASONRY CHIMNEY.	5.	MAINTAIN ALL EXISTING SERVICES IN USE AT ALL TIMES UNLESS WRITTEN PERMISSION IS RECEIVED FROM THE OWNER TO TEMPORARILY INTERRUPT ANY SUCH SERVICE. PERMANENTLY RECONNECT ALL SERVICES DISRUPTED BY THE ALTERATION AND DEMOLITION WORK.
		6.	SELECTIVE DEMOLITION WORK INCLUDES REMOVAL OF NON-STRUCTURAL ITEMS INDICATED. REFER TO ELEC. DEMOLITION DWGS FOR ADDITIONAL SCOPE. THIS DRAWING DOES NOT SHOW ELEC, WATER, HVAC, AND MOST OTHER SERVICES.
		7.	LOCATE AND IDENTIFY EXISTING UTILITIES, INCLUDING SANITARY SEWER SYSTEM AND ASCERTAIN THEIR CONDITION TO ENSURE ADEQUATE PERFORMANCE OF ALL UTILITIES IN NEW CONSTRUCTION. PROTECT UTILITY LINES AND HARDWARE DURING DEMOLITION AND CONSTRUCTION PHASES.
		8.	THE CONTRACTOR SHALL SAFELY SECURE ANY AND ALL PIPING, WIRING, CABLES, OR DEVICES THAT ARE NOT SCHEDULED FOR DEMOLITION THAT WERE SECURED BY ITEMS THAT HAVE BEEN OR ARE SCHEDULED FOR DEMOLITION.
		9.	UPON COMPLETION OF THE DEMOLITION WORK, ALL AREAS SHALL BE LEFT BROOM CLEAN TO THE SATISFACTION OF THE OWNER.
		10.	CONTRACTOR SHALL PROMPTLY PATCH AND REPAIR DAMAGE CAUSED TO ADJACENT CONSTRUCTION BY DEMOLITION WORK. RESTORE EXPOSED FINISHES IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND REFINISHING.
		11.	IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, NOTIFY OWNER IMMEDIATELY COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. BURNING OR REMOVED MATERIALS IS NOT PERMITTED ON THE PROJECT SITE.
		12.	COORDINATE ALL DEMOLITION WORK ON THE EXISTING BUILDING WITH THE OWNER BEFORE PROCEEDING.
		13.	PERFORM ALL NECESSARY DISASSEMBLY, REMOVAL AND DISPOSAL OF BUILDING MATERIALS AND EQUIPMENT WHERE "NOTES" ON THE DRAWINGS REFER TO "REPLACE..." OR "INSTALL NEW..." OR IMPLY REMOVAL OF (E) AND REPLACEMENT WITH NEW ITEMS.
		14.	COORDINATE WITH REFLECTED CEILING PLANS FOR EXTENT OF CEILING DEMOLITION WHERE NEW CEILINGS ARE SCHEDULED.
		15.	COORDINATE WITH FINISH PLANS FOR EXTENT OF FLOOR AND WALL FINISH DEMOLITION WHERE NEW FLOOR OR WALL FINISHES ARE SCHEDULED.
		16.	MATERIALS AND/OR ITEMS DESIGNATED TO BE REINSTALLED AND/OR RELOCATED AS SHOWN SHALL BE STORED AND PROTECTED UNTIL REINSTALLED. DAMAGED ITEMS SHALL BE REPLACED WITH SIMILAR NEW MATERIAL.
		17.	COORDINATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DEMOLITION ACCORDINGLY AND AS NECESSARY TO REMOVE AND/OR INSTALL ALL NEW WORK.



LOWER LEVEL KEY PLAN

SCALE: NTS



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DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MU551100003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, DOVER, DELAWARE 19901

[illegible]

SHEET TITLE

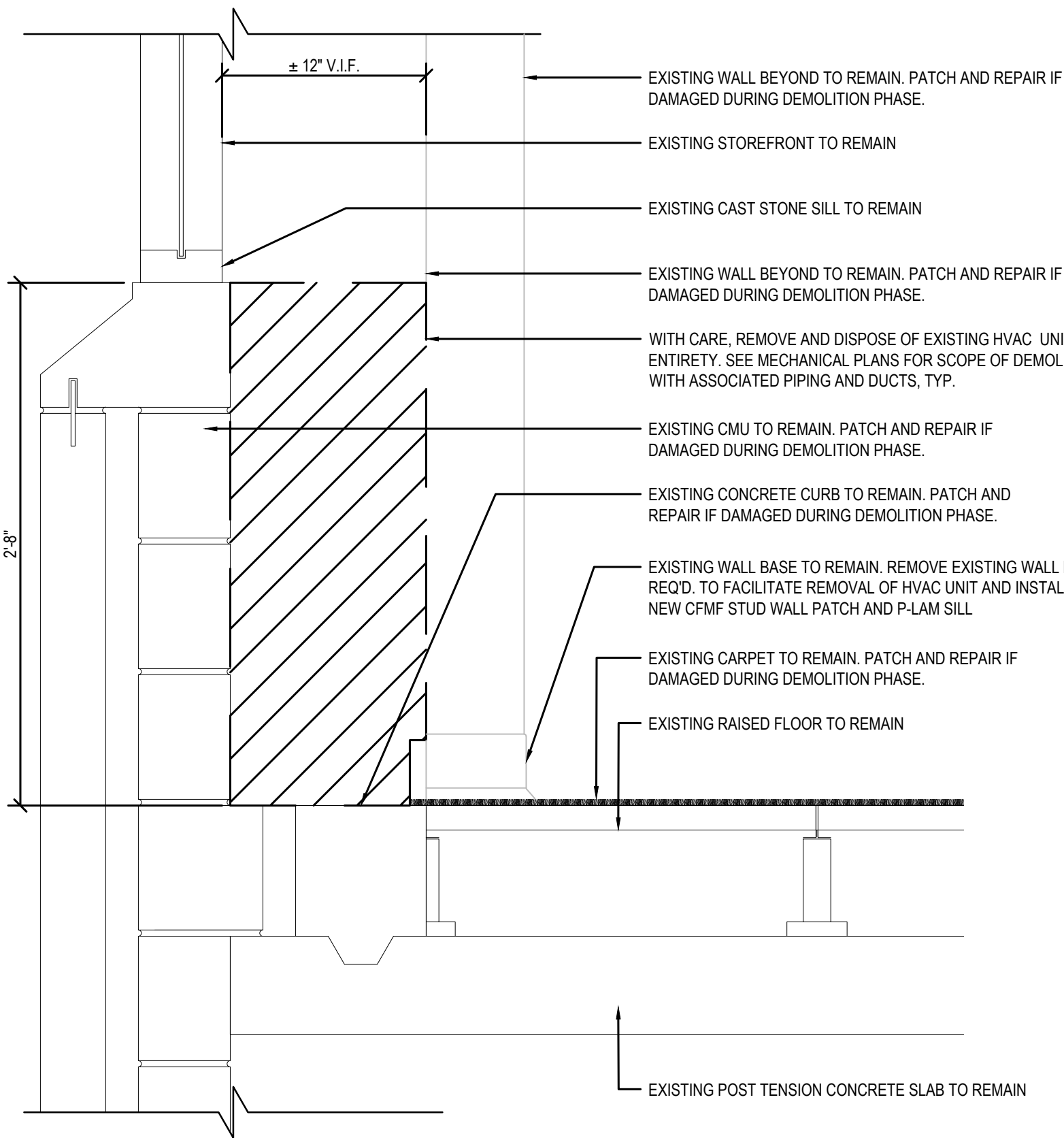
LOWER LEVEL FLOOR
PLAN

**BIDDING
DOCUMENTS**
FEBRUARY 14, 2023

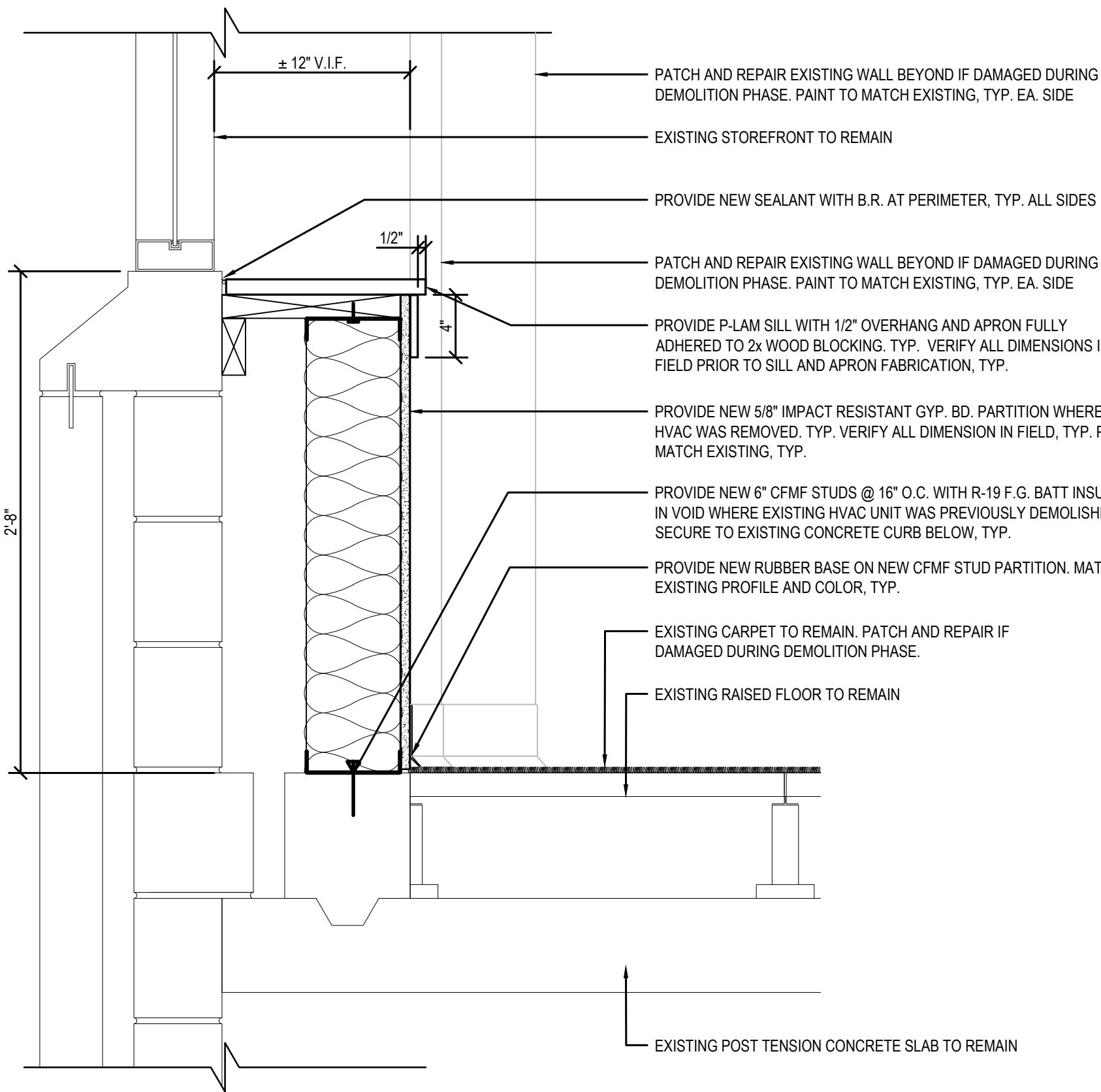
DRAWN	CHK'D	PROJECT NO.
-	-	19121
SHEET NO.		

A-100

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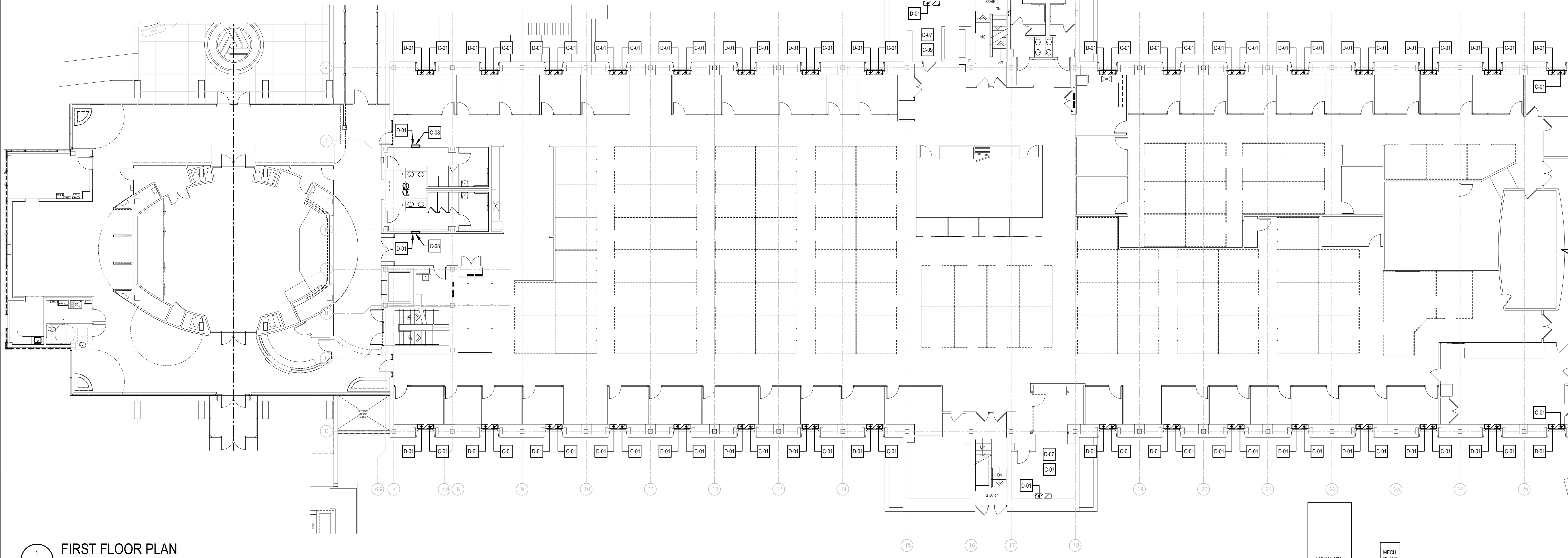
DEMOLITION DETAIL



CONSTRUCTION DETAIL

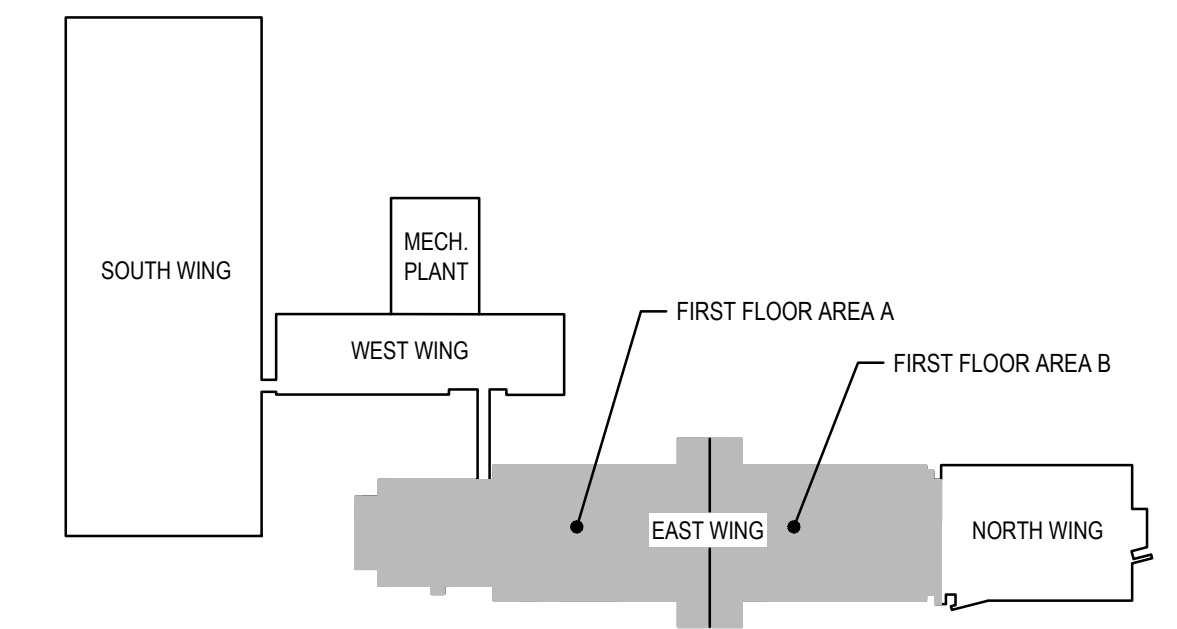
TYPICAL HVAC UNIT PATCH DETAIL

SCALE: 3/32" = 1'-0"



FIRST FLOOR PLAN

SCALE: 3/32" = 1'-0"



FIRST FLOOR KEY PLAN

SCALE: NTS

DEMOLITION KEY NOTES

- D-01 WITH CARE, REMOVE AND DISPOSE OF EXISTING HVAC UNIT IN ITS ENTIRETY. SEE MECHANICAL PLANS FOR SCOPE OF DEMOLITION WITH ASSOCIATED PIPING AND DUCTS. SEE TYPICAL DETAIL 2/A-101 FOR MORE INFORMATION.
- D-02 NOT USED THIS SHEET
- D-03 NOT USED THIS SHEET
- D-04 NOT USED THIS SHEET
- D-05 NOT USED THIS SHEET
- D-06 NOT USED THIS SHEET
- D-07 REMOVE AND DISPOSE OF EXISTING CARPET & VINYL BASE FROM THIS ROOM.

CONSTRUCTION KEY NOTES

- C-01 PROVIDE NEW 6" CFMF STUDS @ 16" O.C. AND 5/8" IMPACT RESISTANT GYP. BD. PARTITION WITH P-LAM SILL AND APRON WHERE EXISTING HVAC WAS REMOVED. TYP. VERIFY ALL DIMENSION IN FIELD, TYP. PAINT TO MATCH EXISTING, TYP. SEE DETAIL 2/A-101 FOR MORE INFORMATION.
- C-02 NOT USED THIS SHEET
- C-03 NOT USED THIS SHEET
- C-04 NOT USED THIS SHEET
- C-05 NOT USED THIS SHEET
- C-06 NOT USED THIS SHEET
- C-07 INSTALL NEW CARPET AND VINYL BASE IN THIS ROOM TO MATCH EXISTING. PAINT ALL WALL SURFACES IN THIS ROOM.
- C-08 INFILL APPROX. 4 S.F. EXISTING WALL OPENING AT DEMO. OF UNIT. WITH METAL STUDS @ 16" O.C. AND 5/8" GNB BOTH SIDES. AT TOILET ROOM SIDE, REMOVE EXISTING CERAMIC WALL TILE BACK TO NEAREST JOINT AND INSTALL NEW CERAMIC WALL TILE TO MATCH EXISTING. ALIGN AND MATCH NEW FINISHES WITH EXISTING WALL FINISHES BOTH SIDES. PAINT WALLS CORNER TO CORNER - COLOR TO MATCH EXISTING, TYP.
- C-09 INSTALL NEW VCT AND VINYL BASE IN THIS ROOM. PAINT ALL WALL SURFACES IN THIS ROOM.

GENERAL DEMOLITION NOTES

- DEMOLITION WORK AS SHOWN DASHED ON DRAWING IS TO INDICATE, IN A GENERAL MANNER, THE REMOVAL OF EXISTING CONSTRUCTION AND IS NOT INTENDED TO BE ALL INCLUSIVE. PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE OR INSTALL NEW WORK.
- EXERCISE CARE TO PREVENT ANY DAMAGE TO EXISTING CONDITIONS, UTILITIES, BUILDING ELEMENTS, AND FINISHES, INCLUDING, BUT NOT LIMITED TO CONCRETE SLABS, FINISH FLOORING, EXTERIOR & INTERIOR WALLS AND FINISHES THAT ARE TO REMAIN. DAMAGED ITEMS SHALL BE REMOVED AND PROMPTLY RETURNED TO SERVICE OR PATCHED/REPLACED WITH NEW MATERIALS TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
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- PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR OTHER SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF ELEMENTS TO BE DEMOLISHED AND ADJACENT EXISTING ELEMENTS TO REMAIN.
- MAINTAIN ALL EXISTING SERVICES IN USE AT ALL TIMES UNLESS WRITTEN PERMISSION IS RECEIVED FROM THE OWNER TO TEMPORARILY INTERRUPT ANY SUCH SERVICE. PERMANENTLY RECONNECT ALL SERVICES DISRUPTED BY THE ALTERATION AND DEMOLITION WORK.
- SELECTIVE DEMOLITION WORK INCLUDES REMOVAL OF NON-STRUCTURAL ITEMS INDICATED. REFER TO ELEC. DEMOLITION DWGS FOR ADDITIONAL SCOPE. THIS DRAWING DOES NOT SHOW ELEC. WATER, HVAC, AND MOST OTHER SERVICES.
- LOCATE AND IDENTIFY EXISTING UTILITIES, INCLUDING SANITARY SEWER SYSTEM, AND ASCERTAIN THEIR CONDITION TO ENSURE ADEQUATE PERFORMANCE OF ALL UTILITIES IN NEW CONSTRUCTION. PROTECT UTILITY LINES AND HARDWARE DURING DEMOLITION AND CONSTRUCTION PHASES.
- THE CONTRACTOR SHALL SAFELY SECURE ANY AND ALL PIPING, WIRING, CABLES, OR DEVICES THAT ARE NOT SCHEDULED FOR DEMOLITION THAT WERE SECURED BY ITEMS THAT HAVE BEEN OR ARE SCHEDULED FOR DEMOLITION.
- UPON COMPLETION OF THE DEMOLITION WORK, ALL AREAS SHALL BE LEFT BROOM CLEAN TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL PROMPTLY PATCH AND REPAIR DAMAGE CAUSED TO ADJACENT CONSTRUCTION BY DEMOLITION WORK. RESTORE EXPOSED FINISHES IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND REFINISHING.
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, NOTIFY OWNER IMMEDIATELY COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. BURNING OF REMOVED MATERIALS IS NOT PERMITTED ON THE PROJECT SITE.
- COORDINATE ALL DEMOLITION WORK ON THE EXISTING BUILDING WITH THE OWNER BEFORE PROCEEDING.
- PERFORM ALL NECESSARY DISASSEMBLY, REMOVAL AND DISPOSAL OF BUILDING MATERIALS AND EQUIPMENT WHERE "NOTES" ON THE DRAWINGS REFER TO "REPLACE," OR "INSTALL NEW," OR IMPLY REMOVAL OF (E) AND REPLACEMENT WITH NEW ITEMS.
- COORDINATE WITH REFLECTED CEILING PLANS FOR EXTENT OF CEILING DEMOLITION WHERE NEW CEILINGS ARE SCHEDULED.
- COORDINATE WITH FINISH PLANS FOR EXTENT OF FLOOR AND WALL FINISH DEMOLITION WHERE NEW FLOOR OR WALL FINISHES ARE SCHEDULED.
- MATERIALS AND/OR ITEMS DESIGNATED TO BE REINSTALLED AND/OR RELOCATED AS SHOWN SHALL BE STORED AND PROTECTED UNTIL REINSTALLED. DAMAGED ITEMS SHALL BE REPLACED WITH SIMILAR NEW MATERIAL.
- COORDINATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DEMOLITION ACCORDINGLY AND AS NECESSARY TO REMOVE AND/OR INSTALL ALL NEW WORK.



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DATE OF SIGNATURE:
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ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. M551100003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

PROJECT

REVISIONS

MARK	DESCRIPTION	DATE

SHEET TITLE

FIRST FLOOR PLAN

BIDDING DOCUMENTS FEBRUARY 14, 2023

DRAWN	CHKD	PROJECT NO.
ABD	DS	19121

SHEET NO.

A-101



DEMOLITION KEY NOTES		GENERAL DEMOLITION NOTES	
D-01	WITH CARE, REMOVE AND DISPOSE OF EXISTING HVAC UNIT IN ITS ENTIRETY. SEE MECHANICAL PLANS FOR SCOPE OF DEMOLITION WITH ASSOCIATED PIPING AND DUCTS. SEE TYPICAL DETAIL 2/A-101 FOR MORE INFORMATION.	1. DEMOLITION WORK AS SHOWN DASHED ON DRAWING IS TO BE INDICATED, IN A GENERAL MANNER, THE REMOVAL OF EXISTING CONSTRUCTION AND IS NOT INTENDED TO BE ALL INCLUSIVE. PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE OR INSTALL NEW WORK.	
D-02	NOT USED THIS SHEET	2. EXERCISE CARE TO PREVENT ANY DAMAGE TO EXISTING CONDITIONS, UTILITIES, BUILDING ELEMENTS, AND FINISHES, INCLUDING, BUT NOT LIMITED TO CONCRETE SLABS, FINISH FLOORING, EXTERIOR & INTERIOR WALLS AND FINISHES THAT ARE TO REMAIN. DAMAGED ITEMS SHALL BE REMOVED AND PROMPTLY RETURNED TO SERVICE OR PATCHED/REPLACED WITH NEW MATERIALS TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER	
D-03	NOT USED THIS SHEET	3. ALL AREAS AND PARTITIONS NOT DASHED OR NOTED TO BE REMOVED SHALL REMAIN INTACT. PATCH AND REPAIR EXISTING ADJACENT PARTITIONS AND FINISHES AS REQUIRED AFTER DEMOLITION TO MATCH EXISTING OR IN ACCORDANCE W/ PROPOSED RENOVATIONS.	
D-04	NOT USED THIS SHEET	4. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR OTHER SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF ELEMENTS TO BE DEMOLISHED AND ADJACENT EXISTING ELEMENTS TO REMAIN.	
D-05	NOT USED THIS SHEET	5. MAINTAIN ALL EXISTING SERVICES IN USE AT ALL TIMES UNLESS WRITTEN PERMISSION IS RECEIVED FROM THE OWNER TO TEMPORARILY INTERRUPT ANY SUCH SERVICE. PERMANENTLY RECONNECT ALL SERVICES DISRUPTED BY THE ALTERATION AND DEMOLITION WORK.	
D-06	NOT USED THIS SHEET	6. SELECTIVE DEMOLITION WORK INCLUDES REMOVAL OF NON-STRUCTURAL ITEMS INDICATED. REFER TO ELEC. DEMOLITION DWGS FOR ADDITIONAL SCOPE. THIS DRAWING DOES NOT SHOW ELEC. WATER, HVAC, AND MOST OTHER SERVICES.	
D-07	REMOVE AND DISPOSE OF EXISTING CARPET & VINYL BASE FROM THIS ROOM.	7. LOCATE AND IDENTIFY EXISTING UTILITIES, INCLUDING SANITARY SEWER SYSTEM, AND ASCERTAIN THEIR CONDITION TO ENSURE ADEQUATE PERFORMANCE OF ALL UTILITIES IN NEW CONSTRUCTION. PROTECT UTILITY LINES AND HARDWARE DURING DEMOLITION AND CONSTRUCTION PHASES.	
		8. THE CONTRACTOR SHALL SAFELY SECURE ANY AND ALL PIPING, WIRING, CABLES, OR DEVICES THAT ARE NOT SCHEDULED FOR DEMOLITION THAT WERE SECURED BY ITEMS THAT HAVE BEEN OR ARE SCHEDULED FOR DEMOLITION.	
		9. UPON COMPLETION OF THE DEMOLITION WORK, ALL AREAS SHALL BE LEFT BROOM CLEAN TO THE SATISFACTION OF THE OWNER.	
		10. CONTRACTOR SHALL PROMPTLY PATCH AND REPAIR DAMAGE CAUSED TO ADJACENT CONSTRUCTION BY DEMOLITION WORK. RESTORE EXPOSED FINISHES IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND REFINISHING.	
		11. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, NOTIFY OWNER IMMEDIATELY COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. BURNING OF REMOVED MATERIALS IS NOT PERMITTED ON THE PROJECT SITE.	
		12. COORDINATE ALL DEMOLITION WORK ON THE EXISTING BUILDING WITH THE OWNER BEFORE PROCEEDING.	
		13. PERFORM ALL NECESSARY DISASSEMBLY, REMOVAL AND DISPOSAL OF BUILDING MATERIALS AND EQUIPMENT WHERE "NOTES" ON THE DRAWINGS REFER TO "REPLACE," OR "INSTALL NEW," OR "IMPLY REMOVAL OF (E) AND REPLACEMENT WITH NEW ITEMS."	
		14. COORDINATE WITH REFLECTED CEILING PLANS FOR EXTENT OF CEILING DEMOLITION WHERE NEW CEILINGS ARE SCHEDULED.	
		15. COORDINATE WITH FINISH PLANS FOR EXTENT OF FLOOR AND WALL FINISH DEMOLITION WHERE NEW FLOOR OR WALL FINISHES ARE SCHEDULED.	
		16. MATERIALS AND/OR ITEMS DESIGNATED TO BE REINSTALLED AND/OR RELOCATED AS SHOWN SHALL BE STORED AND PROTECTED UNTIL REINSTALLED; DAMAGED ITEMS SHALL BE REPLACED WITH SIMILAR NEW MATERIAL.	
		17. COORDINATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DEMOLITION ACCORDINGLY AND AS NECESSARY TO REMOVE AND/OR INSTALL ALL NEW WORK.	

CONSTRUCTION KEY NOTES	
C-01	PROVIDE NEW 6" CMF STUDS @ 16" O.C. AND 5/8" IMPACT RESISTANT GYP. BD. PARTITION WITH P-JAM SILL AND APRON WHERE EXISTING HVAC WAS REMOVED. TYP. VERIFY ALL DIMENSION IN FIELD. TYP. PAINT TO MATCH EXISTING. TYP. SEE DETAIL 2/A-101 FOR MORE INFORMATION.
C-02	NOT USED THIS SHEET
C-03	NOT USED THIS SHEET
C-04	NOT USED THIS SHEET
C-05	NOT USED THIS SHEET
C-06	NOT USED THIS SHEET
C-07	INSTALL NEW CARPET AND VINYL BASE IN THIS ROOM TO MATCH EXISTING. PAINT ALL WALL SURFACES IN THIS ROOM.
C-08	INFILL APPROX. 4 S.F. EXISTING WALL OPENING AT DEMO. OF UNIT, WITH METAL STUDS @ 16" O.C. AND 5/8" GWB BOTH SIDES, AT TOILET ROOM SIDE, REMOVE EXISTING CERAMIC WALL TILE BACK TO NEAREST JOINT AND INSTALL NEW CERAMIC WALL TILE TO MATCH EXISTING. ALIGN AND MATCH NEW FINISHES WITH EXISTING WALL FINISHES BOTH SIDES. PAINT WALLS CORNER TO CORNER - COLOR TO MATCH EXISTING. TYP.

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DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____

ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

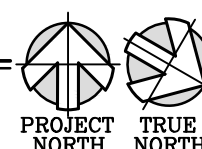
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, DOVER, DELAWARE 19901

[illegible]

SECOND FLOOR PLAN

BIDDING DOCUMENTS		
FEBRUARY 14, 2023		
DRAWN ABD	CHK'D DS	PROJECT NO. 19121
SHEET NO.		

A-102

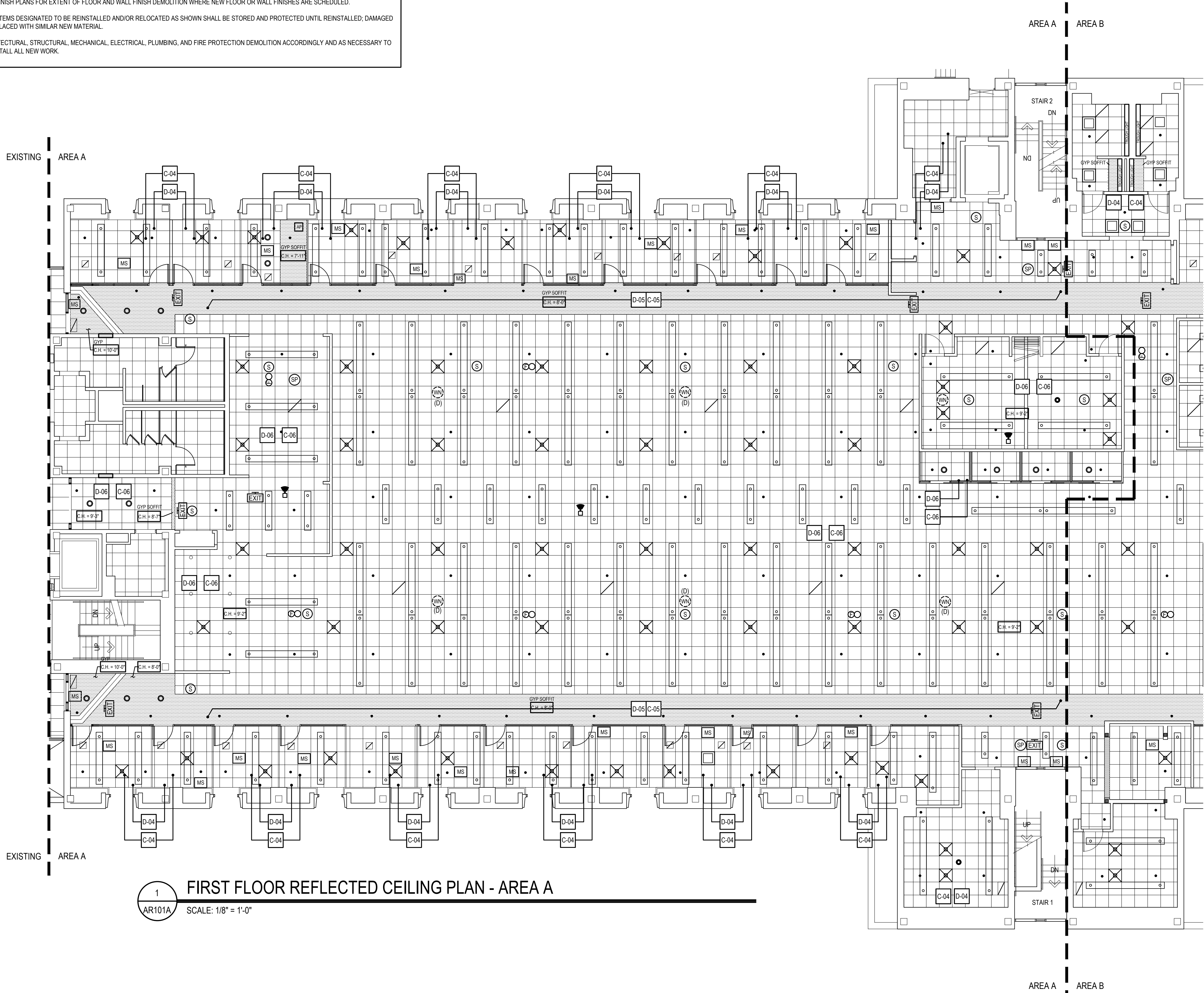


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GENERAL DEMOLITION NOTES	
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4. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR OTHER SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF ELEMENTS TO BE DEMOLISHED AND ADJACENT EXISTING ELEMENTS TO REMAIN.	
5. MAINTAIN ALL EXISTING SERVICES IN USE AT ALL TIMES UNLESS WRITTEN PERMISSION IS RECEIVED FROM THE OWNER TO TEMPORARILY INTERRUPT ANY SUCH SERVICE. PERMANENTLY RECONNECT ALL SERVICES DISRUPTED BY THE ALTERATION AND DEMOLITION WORK.	
6. SELECTIVE DEMOLITION WORK INCLUDES REMOVAL OF NON-STRUCTURAL ITEMS INDICATED. REFER TO ELEC, DEMOLITION DWGS FOR ADDITIONAL SCOPE. THIS DRAWING DOES NOT SHOW ELEC, WATER, HVAC, AND MOST OTHER SERVICES.	
7. LOCATE AND IDENTIFY EXISTING UTILITIES, INCLUDING SANITARY SEWER SYSTEM, AND ASCERTAIN THEIR CONDITION TO ENSURE ADEQUATE PERFORMANCE OF ALL UTILITIES IN NEW CONSTRUCTION. PROTECT UTILITY LINES AND HARDWARE DURING DEMOLITION AND CONSTRUCTION PHASES.	
8. THE CONTRACTOR SHALL SAFELY SECURE ANY AND ALL PIPING, WIRING, CABLES, OR DEVICES THAT ARE NOT SCHEDULED FOR DEMOLITION THAT WERE SECURED BY ITEMS THAT HAVE BEEN OR ARE SCHEDULED FOR DEMOLITION.	
9. UPON COMPLETION OF THE DEMOLITION WORK, ALL AREAS SHALL BE LEFT BROOM CLEAN TO THE SATISFACTION OF THE OWNER.	
10. CONTRACTOR SHALL PROMPTLY PATCH AND REPAIR DAMAGE CAUSED TO ADJACENT CONSTRUCTION BY DEMOLITION WORK. RESTORE EXPOSED FINISHES IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND REFINISHING.	
11. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, NOTIFY OWNER IMMEDIATELY COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. BURNING OF REMOVED MATERIALS IS NOT PERMITTED ON THE PROJECT SITE.	
12. COORDINATE ALL DEMOLITION WORK ON THE EXISTING BUILDING WITH THE OWNER BEFORE PROCEEDING.	
13. PERFORM ALL NECESSARY DISASSEMBLY, REMOVAL, AND DISPOSAL OF BUILDING MATERIALS AND EQUIPMENT WHERE "NOTES" ON THE DRAWINGS REFER TO "REPLACE," "OR INSTALL NEW," "OR IMPLY REMOVAL OF (E)" AND REPLACEMENT WITH NEW ITEMS.	
14. COORDINATE WITH REFLECTED CEILING PLANS FOR EXTENT OF CEILING DEMOLITION WHERE NEW CEILINGS ARE SCHEDULED.	
15. COORDINATE WITH FINISH PLANS FOR EXTENT OF FLOOR AND WALL FINISH DEMOLITION WHERE NEW FLOOR OR WALL FINISHES ARE SCHEDULED.	
16. MATERIALS AND/OR ITEMS DESIGNATED TO BE REINSTALLED AND/OR RELOCATED AS SHOWN SHALL BE STORED AND PROTECTED UNTIL REINSTALLED, DAMAGED ITEMS SHALL BE REPLACED WITH SIMILAR NEW MATERIAL.	
17. COORDINATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DEMOLITION ACCORDINGLY AND AS NECESSARY TO REMOVE AND/OR INSTALL ALL NEW WORK.	

DEMOLITION KEY NOTES	
D-01	NOT USED THIS SHEET.
D-02	NOT USED THIS SHEET.
D-03	NOT USED THIS SHEET.
D-04	DEMOLISH AND DISPOSE OF ENTIRE SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY INCLUDING PERIMETER TRACK, GRID AND TILES. CAREFULLY REMOVE ALL CEILING-MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQ'D TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. STORE CEILING-MOUNTED DEVICES ON SITE FOR REINSTALLATION IN NEW CEILING. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT. NON-DAMAGED CEILING TILES ARE TO BE TURNED OVER TO OWNER FOR ATTIC STOCK AT OWNER'S DISCRETION.
D-05	WITH CARE REMOVE EXISTING CMF / GYP BD. SOFFIT SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQ'D TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. CONTRACTOR SHALL REPLACE ALL DAMAGED GYP. BD. UPON COMPLETION OF HVAC EQUIPMENT. CONTRACTOR COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.
D-06	WITH CARE REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQ'D TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. CONTRACTOR SHALL STORE REMOVED SUSPENDED ACOUSTIC CEILING SYSTEM AND REINSTALL AS INDICATED. IF CEILING GRID AND OR TILE IS DAMAGED DURING DEMOLITION PHASE, CONTRACTOR SHALL REPLACE WITH LIKE SUSPENDED ACOUSTIC CEILING SYSTEM. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.

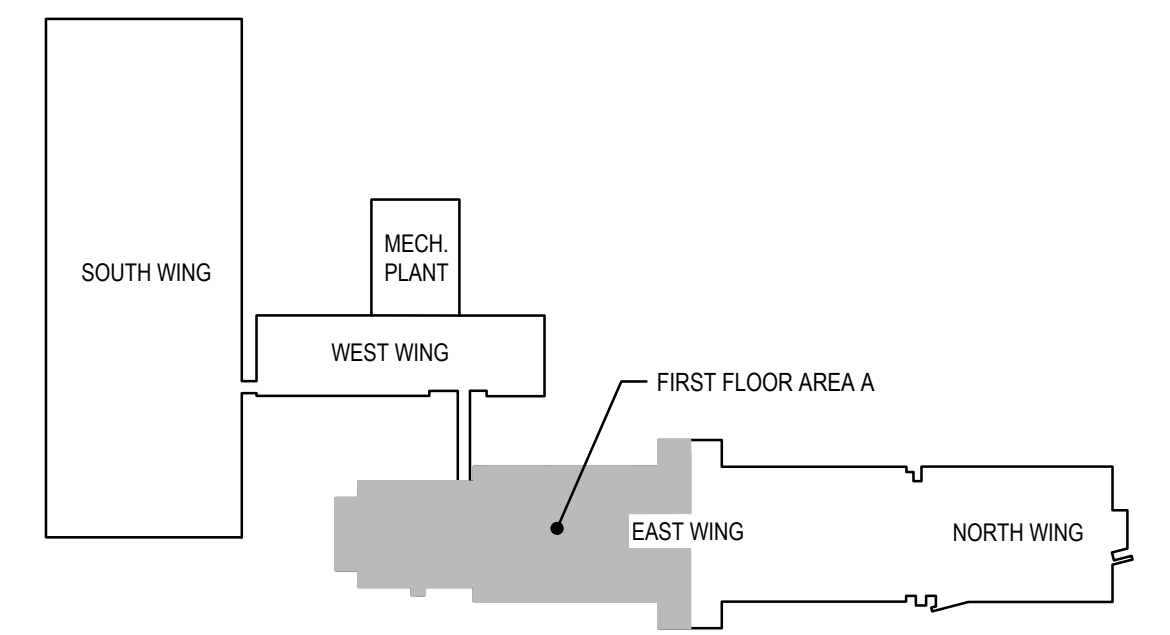
CONSTRUCTION KEY NOTES	
C-01	NOT USED THIS SHEET.
C-02	NOT USED THIS SHEET.
C-03	NOT USED THIS SHEET.
C-04	INSTALL NEW SUSPENDED ACOUSTICAL CEILING SYSTEM, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES WHERE PREVIOUSLY REMOVED FOR HVAC REPLACEMENT. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.
C-05	PROVIDE NEW CMF / GYP BD. SOFFIT SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQ'D TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. CONTRACTOR SHALL REPLACE ALL DAMAGED GYP. BD. UPON COMPLETION OF HVAC EQUIPMENT. CONTRACTOR COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT. PAINT SOFFIT IN ITS ENTIRETY TO MATCH EXISTING COLOR.
C-06	REINSTALL EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES WHERE PREVIOUSLY REMOVED FOR HVAC REPLACEMENT. ANY DAMAGED CEILING TILES ARE TO BE TAKEN FROM ATTIC STOCK FOLLOWING DEMOLITION OF PERIMETER OFFICE CEILINGS. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.



1 AR101A FIRST FLOOR REFLECTED CEILING PLAN - AREA A
SCALE: 1/8" = 1'-0"

SYMBOLS LEGEND	
CH + P-F	INDICATES CEILING HEIGHT.
2' x 4' LAY-IN LIGHT OR SURFACE MOUNT FIXTURE	
1' x 4' LAY-IN LIGHT FIXTURE	
1' x 4' SURFACE MOUNT LIGHT FIXTURE	
2' x 2' LAY-IN LIGHT FIXTURE	
6" DIA. RECESSED CAN LIGHT FIXTURE	
TRACK LIGHTING	
LAY-IN MECHANICAL SUPPLY DIFFUSER	
LINEAR SLOT DIFFUSER	
LAY-IN EXHAUST, RETURN OR RELIEF AIR GRILLE	
ACCESS PANEL IN GYP. BD. CEILING	
CEILING MOUNTED MECHANICAL UNIT	
BATHROOM EXHAUST FAN	
VIDEO CAMERA, SURFACE MOUNTED	
EMERGENCY LIGHT - WALL MOUNTED	
EMERGENCY LIGHT - CEILING MOUNTED	
SPEAKER - CEILING MOUNTED	
SMOKE DETECTOR	
JUNCTION BOX	
WHITE NOISE GENERATOR	
MOTION SENSOR	
DOOR CHIME SENSOR	
WIRELESS NETWORK DROP LOCATION	
MICROPHONE - CEILING MOUNTED	
CEILING MOUNTED EXIT SIGN	
FIRE - STROBE/AUDIO DEVICE	
FIRE - PULL STATION	
BELL	
POWER POLE	
FIRE SPRINKLER HEAD	
PROJECTOR - CEILING MOUNTED	
TO BE DEMOLISHED	
NOTE: MECHANICAL ITEMS ARE SHOWN FOR REFERENCE ONLY. SEE MECHANICAL PLANS FOR MECHANICAL SCOPE OF WORK.	

ACT CEILING - DEMOLISH ACT CEILING GRID AND TILES WHERE NOTED. REPLACE WITH NEW ACT CEILING GRID AND TILES. SEE SPECIFICATIONS.
GYP BOARD/PLASTER CEILING - DEMOLISH GYP BOARD/PLASTER CEILING WHERE NOTED AND REPLACE WITH 5/8" GYP ON 6" METAL STUD @ 16" O.C.



FIRST FLOOR KEY PLAN
SCALE: NTS

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SIGNATURE: _____

DATE OF SIGNATURE: _____

DATE OF REGISTRATION EXPIRATION: _____

ARCHITECT / ENGINEER SEAL

PROJECT

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. M6511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. COVER, DELAWARE 19901

REVISIONS

MARK	DESCRIPTION	DATE

SHEET TITLE

FIRST FLOOR
REFLECTED CEILING
PLAN - AREA A

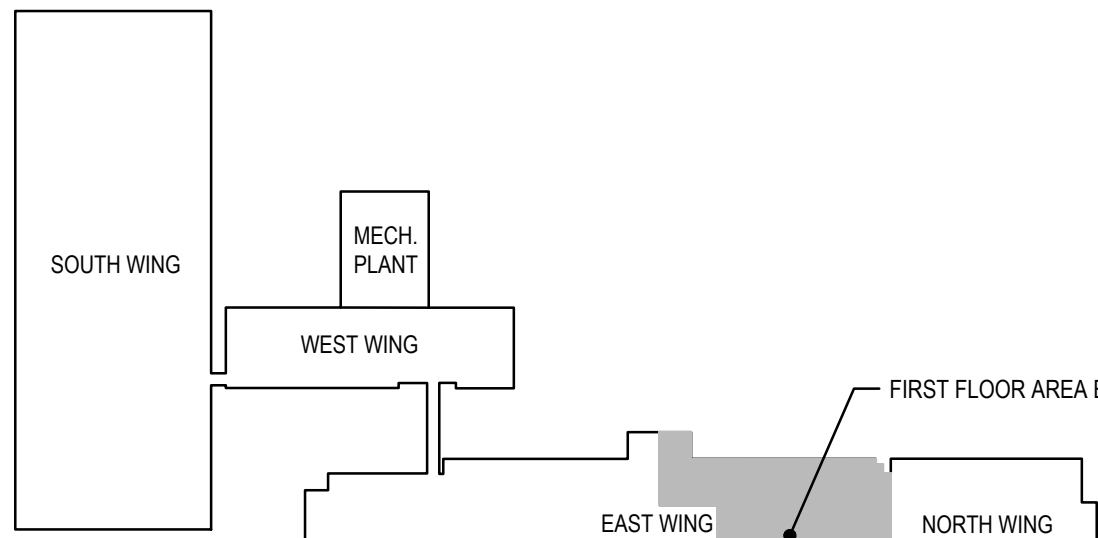
BIDDING
DOCUMENTS
FEBRUARY 14, 2023

DRAWN ABD	CHKD DS	PROJECT NO. 19121
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SHEET NO.
AR101A

ACT CEILING - DEMOLISH ACT CEILING GRID AND TILES. REPLACE WITH NEW ACT CEILING GRID AND TILES. SEE SPECIFICATIONS

GYP BOARD/PLASTER CEILING - DEMOLISH GYP BOARD/PLASTER CEILING AND REPLACE WITH 5/8" GYP ON 6" METAL STUD @ 16" O.C.



PROJECT NORTH TRUE NORTH

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OF ANY OTHER PERSON INVOLVED IN THE
PROJECT.

SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL _____

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

SHEET TITLE

**BIDDING
DOCUMENTS**
FEBRUARY 14, 2023

SHEET NO. _____

AR101B

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SYMBOLS LEGEND

CH = 8'-0"

INDICATES CEILING HEIGHT.

2" x 4" LAY-IN LIGHT OR SURFACE MOUNT FIXTURE

1" x 4" LAY-IN LIGHT FIXTURE

1" x 4" SURFACE MOUNT LIGHT FIXTURE

2" x 2" LAY-IN LIGHT FIXTURE

6" DIA. RECESSED CAN LIGHT FIXTURE

TRACK LIGHTING

LAY-IN MECHANICAL SUPPLY DIFFUSER

LINEAR SLOT DIFFUSER

LAY-IN EXHAUST, RETURN OR RELIEF AIR GRILLE

ACCESS PANEL IN GYP. BD. CEILING

CEILING MOUNTED MECHANICAL UNIT

BATHROOM EXHAUST FAN

VIDEO CAMERA, SURFACE MOUNTED

EMERGENCY LIGHT - WALL MOUNTED

EMERGENCY LIGHT - CEILING MOUNTED

SPEAKER - CEILING MOUNTED

SMOKE DETECTOR

JUNCTION BOX

WHITE NOISE GENERATOR

MOTION SENSOR

DOOR CHIME SENSOR

WIRELESS NETWORK DROP LOCATION

MICROPHONE - CEILING MOUNTED

CEILING MOUNTED EXIT SIGN

FIRE - STROBE/AUDIO DEVICE

FIRE - PULL STATION

BELL

POWER POLE

FIRE SPRINKLER HEAD

PROJECTOR - CEILING MOUNTED

TO BE DEMOLISHED

NOTE: MECHANICAL ITEMS ARE SHOWN FOR REFERENCE ONLY. SEE MECHANICAL PLANS FOR MECHANICAL SCOPE OF WORK.

GENERAL DEMOLITION NOTES

1. DEMOLITION WORK AS SHOWN DASHED ON DRAWING IS TO INDICATE, IN A GENERAL MANNER, THE REMOVAL OF EXISTING CONSTRUCTION AND IS NOT INTENDED TO BE ALL INCLUSIVE. PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE OR INSTALL NEW WORK.

2. EXERCISE CARE TO PREVENT ANY DAMAGE TO EXISTING CONDITIONS, UTILITIES, BUILDING ELEMENTS, AND FINISHES, INCLUDING, BUT NOT LIMITED TO CONCRETE SLABS, FINISH FLOORING, EXTERIOR & INTERIOR WALLS AND FINISHES THAT ARE TO REMAIN. DAMAGED ITEMS SHALL BE REMOVED AND PROMPTLY RETURNED TO SERVICE OR PATCHED/REPLACED WITH NEW MATERIALS TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.

3. ALL AREAS AND PARTITIONS NOT DASHED OR NOTED TO BE REMOVED SHALL REMAIN INTACT. PATCH AND REPAIR EXISTING ADJACENT PARTITIONS AND FINISHES AS REQUIRED AFTER DEMOLITION TO MATCH EXISTING OR IN ACCORDANCE W/ PROPOSED RENOVATIONS.

4. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR OTHER SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF ELEMENTS TO BE DEMOLISHED AND ADJACENT EXISTING ELEMENTS TO REMAIN.

5. MAINTAIN ALL EXISTING SERVICES IN USE AT ALL TIMES UNLESS WRITTEN PERMISSION IS RECEIVED FROM THE OWNER TO TEMPORARILY INTERRUPT ANY SUCH SERVICE. PERMANENTLY RECONNECT ALL SERVICES DISRUPTED BY THE ALTERATION AND DEMOLITION WORK.

6. SELECTIVE DEMOLITION WORK INCLUDES REMOVAL OF NON-STRUCTURAL ITEMS INDICATED. REFER TO ELEC, DEMOLITION DWGS FOR ADDITIONAL SCOPE. THIS DRAWING DOES NOT SHOW ELEC, WATER, HVAC, AND MOST OTHER SERVICES.

7. LOCATE AND IDENTIFY EXISTING UTILITIES, INCLUDING SANITARY SEWER SYSTEM, AND ASCERTAIN THEIR CONDITION TO ENSURE ADEQUATE PERFORMANCE OF ALL UTILITIES IN NEW CONSTRUCTION. PROTECT UTILITY LINES AND HARDWARE DURING DEMOLITION AND CONSTRUCTION PHASES.

8. THE CONTRACTOR SHALL SAFELY SECURE ANY AND ALL PIPING, WIRING, CABLES, OR DEVICES THAT ARE NOT SCHEDULED FOR DEMOLITION THAT WERE SECURED BY ITEMS THAT HAVE BEEN OR ARE SCHEDULED FOR DEMOLITION.

9. UPON COMPLETION OF THE DEMOLITION WORK, ALL AREAS SHALL BE LEFT BROOM CLEAN TO THE SATISFACTION OF THE OWNER.

10. CONTRACTOR SHALL PROMPTLY PATCH AND REPAIR DAMAGE CAUSED TO ADJACENT CONSTRUCTION BY DEMOLITION WORK. RESTORE EXPOSED FINISHES IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND REFINISHING.

11. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, NOTIFY OWNER IMMEDIATELY COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. BURNING OF REMOVED MATERIALS IS NOT PERMITTED ON THE PROJECT SITE.

12. COORDINATE ALL DEMOLITION WORK ON THE EXISTING BUILDING WITH THE OWNER BEFORE PROCEEDING.

13. PERFORM ALL NECESSARY DISASSEMBLY, REMOVAL AND DISPOSAL OF BUILDING MATERIALS AND EQUIPMENT WHERE "NOTES" ON THE DRAWINGS REFER TO "REPLACE..." OR "INSTALL NEW..." OR IMPLY REMOVAL OF (E) AND REPLACEMENT WITH NEW ITEMS.

14. COORDINATE WITH REFLECTED CEILING PLANS FOR EXTENT OF CEILING DEMOLITION WHERE NEW CEILINGS ARE SCHEDULED.

15. COORDINATE WITH FINISH PLANS FOR EXTENT OF FLOOR AND WALL FINISH DEMOLITION WHERE NEW FLOOR OR WALL FINISHES ARE SCHEDULED.

16. MATERIALS AND/OR ITEMS DESIGNATED TO BE REINSTALLED AND/OR RELOCATED AS SHOWN SHALL BE STORED AND PROTECTED UNTIL REINSTALLED; DAMAGED ITEMS SHALL BE REPLACED WITH SIMILAR NEW MATERIAL.

17. COORDINATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DEMOLITION ACCORDINGLY AND AS NECESSARY TO REMOVE AND/OR INSTALL ALL NEW WORK.

DEMOLITION KEY NOTES

D-01

NOT USED THIS SHEET.

D-02

NOT USED THIS SHEET.

D-03

NOT USED THIS SHEET.

D-04

DEMOLISH AND DISPOSE OF ENTIRE SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY INCLUDING PERIMETER TRACK, GRID AND TILES. CAREFULLY REMOVE ALL CEILING-MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO: EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQD TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. STORE CEILING-MOUNTED DEVICES ON SITE FOR REINSTALLATION IN NEW CEILING. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT. NON-DAMAGED CEILING TILES ARE TO BE TURNED OVER TO OWNER FOR ATTIC STOCK AT OWNER'S DISCRETION.

D-05

WITH CARE REMOVE EXISTING CMF / GYP BD. SOFFIT SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQD TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. CONTRACTOR SHALL REPLACE ALL DAMAGED GYP. BD. UPON COMPLETION OF HVAC EQUIPMENT. CONTRACTOR COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.

D-06

WITH CARE REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQD TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. CONTRACTOR SHALL STORE REMOVED SUSPENDED ACOUSTIC CEILING SYSTEM AND REINSTALL AS INDICATED. IF CEILING GRID AND/OR TILE IS DAMAGED DURING DEMOLITION PHASE, CONTRACTOR SHALL REPLACE WITH LIKE SUSPENDED ACOUSTIC CEILING SYSTEM. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.

CONSTRUCTION KEY NOTES

C-01

NOT USED THIS SHEET.

C-02

NOT USED THIS SHEET.

C-03

NOT USED THIS SHEET.

C-04

INSTALL NEW SUSPENDED ACOUSTICAL CEILING SYSTEM, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES WHERE PREVIOUSLY REMOVED FOR HVAC REPLACEMENT. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.

C-05

PROVIDE NEW CMF / GYP BD. SOFFIT SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQD TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. CONTRACTOR SHALL REPLACE ALL DAMAGED GYP. BD. UPON COMPLETION OF HVAC EQUIPMENT. CONTRACTOR COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT. PAINT SOFFIT IN ITS ENTIRETY TO MATCH EXISTING COLOR.

C-06

REINSTALL EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES WHERE PREVIOUSLY REMOVED FOR HVAC REPLACEMENT. ANY DAMAGED CEILING TILES ARE TO BE TAKEN FROM ATTIC STOCK FOLLOWING DEMOLITION OF PERIMETER OFFICE CEILINGSS. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.

ACT CEILING - DEMOLISH ACT CEILING GRID AND TILES WHERE NOTED. REPLACE WITH NEW ACT CEILING GRID AND TILES. SEE SPECIFICATIONS

GYP BOARD/PLASTER CEILING - DEMOLISH GYP BOARD/PLASTER CEILING WHERE NOTED AND REPLACE WITH 5/8" GYP ON 6" METAL STUD @ 16" O.C.

SECOND FLOOR KEY PLAN
SCALE: NTS

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SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. M15511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE

SECOND FLOOR REFLECTED CEILING PLAN - AREA A

BIDDING DOCUMENTS
FEBRUARY 14, 2023

DRAWN
ABD

CHKD
DS

PROJECT NO.
19121

SHEET NO.

AR102A

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GENERAL DEMOLITION NOTES

- DEMOLITION WORK AS SHOWN DASHED ON DRAWING IS TO INDICATE, IN A GENERAL MANNER, THE REMOVAL OF EXISTING CONSTRUCTION AND IS NOT INTENDED TO BE ALL INCLUSIVE. PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE OR INSTALL NEW WORK.
- EXERCISE CARE TO PREVENT ANY DAMAGE TO EXISTING CONDITIONS, UTILITIES, BUILDING ELEMENTS, AND FINISHES, INCLUDING BUT NOT LIMITED TO CONCRETE SLABS, FINISH FLOORING, EXTERIOR & INTERIOR WALLS AND FINISHES THAT ARE TO REMAIN. DAMAGED ITEMS SHALL BE REMOVED AND PROMPTLY RETURNED TO SERVICE OR PATCHED/REPLACED WITH NEW MATERIALS TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
- ALL AREAS AND PARTITIONS NOT DASHED OR NOTED TO BE REMOVED SHALL REMAIN INTACT. PATCH AND REPAIR EXISTING ADJACENT PARTITIONS AND FINISHES AS REQUIRED AFTER DEMOLITION TO MATCH EXISTING OR IN ACCORDANCE W/ PROPOSED RENOVATIONS.
- PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR OTHER SUPPORT TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF ELEMENTS TO BE DEMOLISHED AND ADJACENT EXISTING ELEMENTS TO REMAIN.
- MAINTAIN ALL EXISTING SERVICES IN USE AT ALL TIMES UNLESS WRITTEN PERMISSION IS RECEIVED FROM THE OWNER TO TEMPORARILY INTERRUPT ANY SUCH SERVICE. PERMANENTLY RECONNECT ALL SERVICES DISRUPTED BY THE ALTERATION AND DEMOLITION WORK.
- SELECTIVE DEMOLITION WORK INCLUDES REMOVAL OF NON-STRUCTURAL ITEMS INDICATED. REFER TO ELEC, DEMOLITION DWGS FOR ADDITIONAL SCOPE. THIS DRAWING DOES NOT SHOW ELEC, WATER, HVAC, AND MOST OTHER SERVICES.
- LOCATE AND IDENTIFY EXISTING UTILITIES, INCLUDING SANITARY SEWER SYSTEM, AND ASCERTAIN THEIR CONDITION TO ENSURE ADEQUATE PERFORMANCE OF ALL UTILITIES IN NEW CONSTRUCTION. PROTECT UTILITY LINES AND HARDWARE DURING DEMOLITION AND CONSTRUCTION PHASES.
- THE CONTRACTOR SHALL SAFELY SECURE ANY AND ALL PIPING, WIRING, CABLES, OR DEVICES THAT ARE NOT SCHEDULED FOR DEMOLITION THAT WERE SECURED BY ITEMS THAT HAVE BEEN OR ARE SCHEDULED FOR DEMOLITION.
- UPON COMPLETION OF THE DEMOLITION WORK, ALL AREAS SHALL BE LEFT BROOM CLEAN TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL PROMPTLY PATCH AND REPAIR DAMAGE CAUSED TO ADJACENT CONSTRUCTION BY DEMOLITION WORK. RESTORE EXPOSED FINISHES IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND REFINISHING.
- IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, NOTIFY OWNER IMMEDIATELY COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION. BURNING OF REMOVED MATERIALS IS NOT PERMITTED ON THE PROJECT SITE.
- COORDINATE ALL DEMOLITION WORK ON THE EXISTING BUILDING WITH THE OWNER BEFORE PROCEEDING.
- PERFORM ALL NECESSARY DISASSEMBLY, REMOVAL, AND DISPOSAL OF BUILDING MATERIALS AND EQUIPMENT WHERE "NOTES" ON THE DRAWINGS REFER TO "REPLACE," "OR INSTALL NEW," OR IMPLY REMOVAL OF (E) AND REPLACEMENT WITH NEW ITEMS.
- COORDINATE WITH REFLECTED CEILING PLANS FOR EXTENT OF CEILING DEMOLITION WHERE NEW CEILINGS ARE SCHEDULED.
- COORDINATE WITH FINISH PLANS FOR EXTENT OF FLOOR AND WALL FINISH DEMOLITION WHERE NEW FLOOR OR WALL FINISHES ARE SCHEDULED.
- MATERIALS AND/OR ITEMS DESIGNATED TO BE REINSTALLED AND/OR RELOCATED AS SHOWN SHALL BE STORED AND PROTECTED UNTIL REINSTALLED, DAMAGED ITEMS SHALL BE REPLACED WITH SIMILAR NEW MATERIAL.
- COORDINATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DEMOLITION ACCORDINGLY AND AS NECESSARY TO REMOVE AND/OR INSTALL ALL NEW WORK.

DEMOLITION KEY NOTES

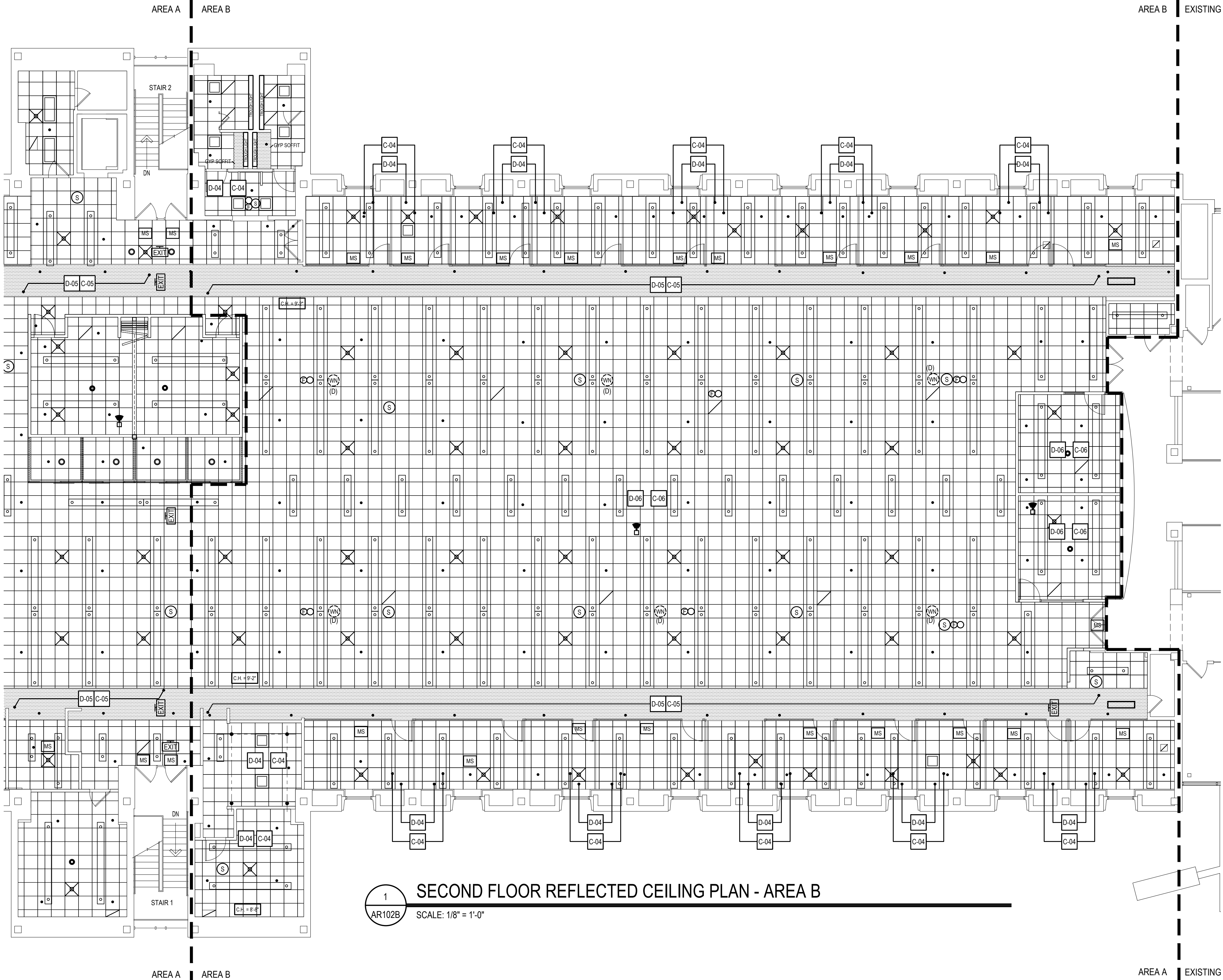
- D-01 NOT USED THIS SHEET.
- D-02 NOT USED THIS SHEET.
- D-03 NOT USED THIS SHEET.
- D-04 DEMOLISH AND DISPOSE OF ENTIRE SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY INCLUDING PERIMETER TRACK, GRID AND TILES. CAREFULLY REMOVE ALL CEILING-MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQ'D TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. STORE CEILING-MOUNTED DEVICES ON SITE FOR REINSTALLATION IN NEW CEILING. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT. NON-DAMAGED CEILING TILES ARE TO BE TURNED OVER TO OWNER FOR ATTIC STOCK AT OWNER'S DISCRETION.
- D-05 WITH CARE REMOVE EXISTING CMF / GYP BD. SOFFIT SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQ'D TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. CONTRACTOR SHALL REPLACE ALL DAMAGED GYP. BD. UPON COMPLETION OF HVAC EQUIPMENT. CONTRACTOR COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.
- D-06 WITH CARE REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQ'D TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. CONTRACTOR SHALL STORE REMOVED SUSPENDED ACOUSTIC CEILING SYSTEM AND REINSTALL AS INDICATED. IF CEILING GRID AND OR TILE IS DAMAGED DURING DEMOLITION PHASE, CONTRACTOR SHALL REPLACE WITH LIKE SUSPENDED ACOUSTIC CEILING SYSTEM. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.

CONSTRUCTION KEY NOTES

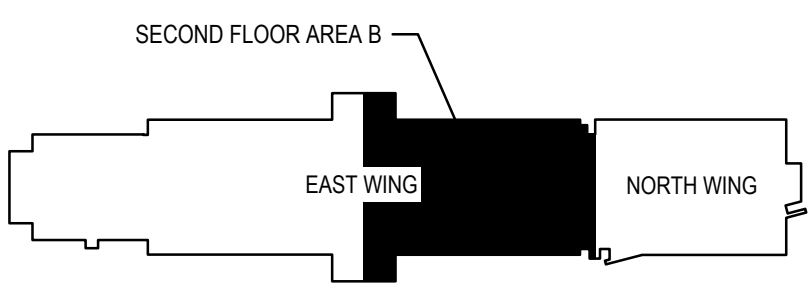
- C-01 NOT USED THIS SHEET.
- C-02 NOT USED THIS SHEET.
- C-03 NOT USED THIS SHEET.
- C-04 INSTALL NEW SUSPENDED ACOUSTICAL CEILING SYSTEM, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES WHERE PREVIOUSLY REMOVED FOR HVAC REPLACEMENT. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.
- C-05 PROVIDE NEW CMF / GYP BD. SOFFIT SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES AS REQ'D TO FACILITATE INSTALLATION OF NEW HVAC DUCTS AND EQUIPMENT. CONTRACTOR SHALL REPLACE ALL DAMAGED GYP. BD. UPON COMPLETION OF HVAC EQUIPMENT. CONTRACTOR COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT. PAINT SOFFIT IN ITS ENTIRETY TO MATCH EXISTING COLOR.
- C-06 REINSTALL EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM, INCLUDING BUT NOT LIMITED TO, EXISTING ELECTRICAL FIXTURES AND DEVICES, MECHANICAL EQUIPMENT AND DEVICES, INFORMATION TECHNOLOGY EQUIPMENT AND DEVICES, FIRE DETECTION EQUIPMENT, AND SECURITY DEVICES WHERE PREVIOUSLY REMOVED FOR HVAC REPLACEMENT. ANY DAMAGED CEILING TILES ARE TO BE TAKEN FROM ATTIC STOCK FOLLOWING DEMOLITION OF PERIMETER OFFICE CEILINGS. CONTRACTOR SHALL COORDINATE WITH NEW HVAC PLAN FOR SCOPE OF HVAC REPLACEMENT.

SYMBOLS LEGEND

- INDICATES CEILING HEIGHT.
- 2' x 4' LAY-IN LIGHT OR SURFACE MOUNT FIXTURE
- 1' x 4' LAY-IN LIGHT FIXTURE
- 1' x 4' SURFACE MOUNT LIGHT FIXTURE
- 2' x 2' LAY-IN LIGHT FIXTURE
- 6" DIA. RECESSED CAN LIGHT FIXTURE
- TRACK LIGHTING
- LAY-IN MECHANICAL SUPPLY DIFFUSER
- LINEAR SLOT DIFFUSER
- LAY-IN EXHAUST, RETURN OR RELIEF AIR GRILLE
- ACCESS PANEL IN GYP. BD. CEILING
- CEILING MOUNTED MECHANICAL UNIT
- BATHROOM EXHAUST FAN
- VIDEO CAMERA, SURFACE MOUNTED
- EMERGENCY LIGHT - WALL MOUNTED
- EMERGENCY LIGHT - CEILING MOUNTED
- SPEAKER - CEILING MOUNTED
- SMOKE DETECTOR
- JUNCTION BOX
- WHITE NOISE GENERATOR
- MOTION SENSOR
- DOOR CHIME SENSOR
- WIRELESS NETWORK DROP LOCATION
- MICROPHONE - CEILING MOUNTED
- CEILING MOUNTED EXIT SIGN
- FIRE - STROBE/AUDIO DEVICE
- FIRE - PULL STATION
- BELL
- POWER POLE
- FIRE SPRINKLER HEAD
- PROJECTOR - CEILING MOUNTED
- (D) TO BE DEMOLISHED
- NOTE: MECHANICAL ITEMS ARE SHOWN FOR REFERENCE ONLY. SEE MECHANICAL PLANS FOR MECHANICAL SCOPE OF WORK.



1 SECOND FLOOR REFLECTED CEILING PLAN - AREA B
AR102B SCALE: 1/8" = 1'-0"



SECOND FLOOR KEY PLAN

SCALE: NTS



CONSULTANT

THIS DRAWING IS THE PROPERTY OF STUDIOJAED, AND IS PREPARED FOR THE EXCLUSIVE USE OF ITS CLIENTS AT THE LOCATION INDICATED. NO OTHER USE IS AUTHORIZED OR INTENDED.

THE PROFESSIONAL SERVICES OF THE ARCHITECT ARE UNDERTAKEN FOR AND ARE PERFORMED IN THE INTEREST OF (NAME OF PERSON EMPLOYING ARCHITECT) NO CONTRACTUAL OBLIGATION IS ASSUMED BY THE ARCHITECT FOR THE BENEFIT OF ANY OTHER PERSON INVOLVED IN THE PROJECT.

SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. M6511000003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. COVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE

SECOND FLOOR
REFLECTED CEILING
PLAN - AREA B

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

DRAWN	CHKD	PROJECT NO.
ABD	DS	19121

SHEET NO.

AR102B

1. FIRE DAMPERS SHALL BE PLACED IN ALL DUCT OR TRANSFER AIR PENETRATIONS OF ALL FIRE RATED PARTITIONS. PROVIDE LABELED ACCESS DOORS AS NEEDED. FIRE DAMPERS AND INSTALLATION ARE TO BE IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE.
2. DUCT SMOKE DETECTORS ARE TO BE SUPPLIED AND INSTALLED WHERE SHOWN IN ACCORDANCE WITH NFPA 72. ACCESS SHALL BE PROVIDED TO SMOKE DETECTORS FOR INSPECTION AND MAINTENANCE. ELECTRICAL CONTRACTOR SHALL MAKE APPROPRIATE AND REQUIRED ELECTRICAL CONNECTIONS TO THE DUCT SMOKE DETECTORS AS SPECIFIED AND REQUIRED FOR PROPER OPERATION. DUCT SMOKE DETECTORS SHALL DE-ENERGIZE THE AIR HANDLING UNIT, OR EXHAUST FAN, THAT THEY ARE ASSOCIATED WITH AND ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL IN THE BUILDING'S FIRE PROTECTIVE SIGNALING SYSTEM AT A CONSTANTLY ATTENDED LOCATION. ANY SYSTEM THAT IS DE-ENERGIZED BY THE ALARM SHALL NOT RESTART EXCEPT BY MANUAL RESET ON THE UNIT R THROUGH THE CAB. SMOKE DETECTORS SHALL COMPLY WITH THE INTERNATIONAL MECHANICAL CODE IN ENTIRETY.
3. PIPES, BUS DUCTS, CABLES, WIRES, AIR DUCTS AND SIMILAR BUILDING SERVICE EQUIPMENT THAT PASS THROUGH SMOKE PARTITIONS SHALL BE PROTECTED AS STATED IN NFPA 101 CHAPTER 6-3.6. THE SPACE BETWEEN THE PENETRATING PIPE OR DUCT AND THE SMOKE BARRIER SHALL:
 - A. BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE SMOKE-RESISTANCE OF THE SMOKE BARRIER
 - OR
 - B. BE PROTECTED BY AN APPROVED DEVICE DESIGNED FOR THE SPECIFIC PURPOSE.
- INSULATION AND COVERINGS FOR PIPES AND DUCTS SHALL NOT PASS THROUGH FIRE BARRIERS UNLESS ONE OF THESE REQUIREMENTS IS MET. CONTRACTOR IS RESPONSIBLE FOR CHOOSING WHICH ALTERNATIVE TO USE UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS OR SPECIFICATIONS.
4. ALL DUCTS SHALL BE CONNECTED TO AIR OUTLETS, AIR INLETS, AND AIR HANDLING DEVICES TO PROVIDE A COMPLETE DUCTWORK SYSTEM FOR CONNECTION TO AIR OUTLETS UP TO 8 FEET OF FLEX DUCT SHALL BE USED WHERE CONCEALED FROM OCCUPANT VIEW. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL TRANSITIONS TO ENSURE PROPER AND ADEQUATE CONNECTIONS OF ALL DUCTWORK TO ALL AIR INLETS, OUTLETS, AIR HANDLING DEVICES AND AIR TERMINAL DEVICES. DUCTWORK IS TO BE COORDINATED WITH TRANSFER AIR OPENINGS AND ROOF TRUSS SYSTEM, OR STRUCTURAL STEEL.
5. ALL AIR HANDLING UNITS ARE TO BE INSTALLED TO PROVIDE ADEQUATE, UNOBSTRUCTED, ACCESS AND CLEARANCE FOR AIR FILTER REPLACEMENT AND ROUTINE MAINTENANCE.
6. ALL MOTORS FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR (OR A MECHANICAL SUBCONTRACTOR) SHALL BE PROTECTED AGAINST OVERLOAD IN ACCORDANCE WITH N.E.C.
7. WHERE DEMOLISHING AND REMOVING UV'S, REMOVE ASSOCIATED LOUVER. CONTRACTOR MUST PATCH AND PAINT TO MATCH EXISTING SURROUNDINGS.
8. EXHAUST VENTS AND PLUMBING VENTS SHALL BE LOCATED A MINIMUM OF 10' FROM ANY INTAKE AIR OPENING.
9. ALL NEW CEILING MOUNTED AIR INLETS AND AIR OUTLETS ARE TO BE COORDINATED WITH LIGHTING. A NEAT, SYMMETRICAL INSTALLATION IS TO BE MAINTAINED. WITH CEILING MOUNTED AIR INLETS/OUTLETS IN PROXIMITY TO LOCATIONS SHOWN ON THE PLANS, IN THE CASE THAT THERE IS A CONFLICT, THE LOCATION OF THE LIGHTING WILL TAKE PRIORITY AND THE INLET/OUTLET SHALL BE RELOCATED AS CLOSE AS POSSIBLE. DUCTWORK SHOP DRAWINGS ARE TO SHOW PLACEMENT OF AIR INLETS/OUTLETS WITH LIGHTING OVERLAP ON THE SAME PLAN. CONTRACTORS ARE TO USE REFLECTED CEILING PLAN AS BASIS FOR COORDINATION.
10. THE CONTRACTOR SHALL PROVIDE ALL WALL AND ROOF PENETRATIONS REQUIRED FOR DUCT ROUTING. THE CONTRACTOR SHALL PATCH AND PAINT ALL PENETRATIONS LEFT BY DEMOLITION WORK AND BY CLEARANCE OPENINGS THAT REMAIN AFTER NEW DUCT INSTALLATIONS.
11. NOTIFY THE OWNER IN THE EVENT ANY EXISTING HAZARDOUS MATERIALS, SUCH AS ASBESTOS, PCB'S, LEAD, ETC., ARE ENCOUNTERED ON THE PROJECT. THE OWNER WILL ARRANGE WITH A QUALIFIED SPECIALIST FOR THE IDENTIFICATION, TESTING, REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION, TO COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES.
12. ALL THERMOSTATS SHOWN ON HVAC PLANS ARE TO BE MOUNTED 4'-0" MAXIMUM AFF (TOP OF UNIT), UNLESS NOTED OTHERWISE. CONTRACTOR IS RESPONSIBLE FOR MOUNTING & WIRING ALL THERMOSTATS. PLENUM RATED CABLES MUST BE USED.
13. ALL QUANTITIES TO BE VERIFIED BY CONTRACTOR.
14. INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S WRITTEN INSTRUCTION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS INCURRED AS A RESULT OF SUBSTITUTIONS OR DEVIATIONS FROM THE BASIS OF DESIGN SHOWN ON THESE DRAWINGS.
16. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRANSITIONS AND FLEXIBLE CONNECTIONS BETWEEN ALL MOTORIZED EQUIPMENT AND SUPPLY, RETURN, OUTSIDE AIR, OR EXHAUST DUCTS.
17. DUCT SMOKE DETECTORS ARE TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRED TO ASSOCIATED AHU, FACP, AND TEST SWITCH BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
18. ALL DUCT PENETRATIONS THROUGH FLOORS ARE TO BE PROVIDED WITH FIRE DAMPER AND 24"x24" ACCESS PANEL UNLESS NOTED OTHERWISE.

	EXISTING DUCTWORK OR EQUIPMENT
	ROUND RETURN OR EXHAUST AIR DOWN
	ROUND SUPPLY AIR DOWN
	ROUND RETURN OR EXHAUST AIR UP
	ROUND SUPPLY AIR UP
	RECTANGULAR RETURN OR EXHAUST AIR DOWN
	RECTANGULAR SUPPLY AIR DOWN
	RECTANGULAR RETURN OR EXHAUST AIR UP
	RECTANGULAR SUPPLY AIR UP
	NEW FLEX DUCTWORK
	CEILING MOUNTED SUPPLY AIR DIFFUSER
	SIDE-WALL MOUNTED SUPPLY AIR DIFFUSER
	CEILING MOUNTED RETURN AIR REGISTER
	SIDE-WALL MOUNTED RETURN AIR REGISTER
	VOLUME DAMPER
	MOTOR OPERATED DAMPER
	FIRE DAMPER
	THERMOSTAT OR TEMP SENSOR
	HUMIDISTAT OR RH SENSOR
	CARBON DIOXIDE SENSOR
	DUCT SMOKE DETECTOR
	EXTENT OF WORK
	OPEN END DUCT
	AIR HANDLING UNIT
	EXHAUST FAN
	FAN COIL AIR HANDLING UNIT
	UNIT VENTILATOR
	UNIT HEATER
	CABINET HEATER
	FIN TUBE RADIANT HEATING
	VARIABLE AIR VOLUME BOX
	CEILING MOUNTED CASSETTE SPLIT SYSTEM
	WALL-MOUNTED SPLIT SYSTEM
	HEAT PUMP

1.	ALL DEMOLISHED MECHANICAL UNITS ARE TO BE REMOVED AND TAKEN OFF SITE AND BECOME PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.	 AHU	AIR HANDLING UNIT
2.	ALL DEMOLISHED DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, INSULATION, AND HANGERS ARE TO BE REMOVED AND TAKEN OFF SITE AND BECOME PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.	 L	LOUVER
3.	ALL DEMOLISHED HEATING SUPPLY AND RETURN PIPING, VALVES, FITTINGS, INSULATION AND HANGERS ARE TO BE REMOVED AND TAKEN OFF SITE AND BECOME PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. PIPING THAT IS TO BE ABANDONED IN PLACE SHALL BE CUT AND CAPPED BELOW FLOOR OR WITHIN TRENCH, AND THE OPENING SEALED WITH CONCRETE.	 FC	FAN COIL
4.	PROVIDE TEMPORARY COVERS AND CAPS FOR TEMPORARILY EXPOSED EXISTING PIPING, EQUIPMENT AND WALL OPENINGS. TEMPORARY COVERS AND CAPS SHALL BE SUFFICIENT TO ENSURE DIRT, WEATHER AND CONSTRUCTION DEBRIS WILL NOT ENTER ANY SYSTEM OR WALL, ROOF OR FLOOR OPENING.	 UH	UNIT HEATER
5.	SEE ELECTRICAL PLANS FOR INFORMATION ON WIRING TERMINATION OF DEMOLISHED EQUIPMENT.	 FT	FIN TUBE
6.	REFER TO ARCHITECTURAL DRAWINGS FOR CEILING DEMOLITION PLAN.	 P	PUMP
7.	PATCHING AND PAINTING AT UNIT VENTILATOR, FIN TUBE, UNIT HEATER, AND THERMOSTAT LOCATIONS BY GENERAL TRADES. SEE ARCHITECTURAL DRAWINGS FOR FINISH SCHEDULE.	 CUH	CABINET UNIT HEATER
8.	THE CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL ROOFTOP AND WALL OPENINGS CREATED BY DEMOLITION SUITABLE FOR WITHSTANDING WEATHER CONDITIONS.		DUCTWORK
9.	THE CONTRACTOR SHALL PROVIDE FLOOR PROTECTION IN THE BUILDING, ANY DAMAGE TO THE FLOOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND REPAIR COSTS SHALL BE BACK CHARGED TO THE CONTRACTOR.		DEMOLISH MECHANICAL EQUIPMENT INCLUDING ALL RELATED PIPING, INSULATION, VALVES, FITTINGS, DUCTWORK, INSULATION, HANGERS, SUPPORTS, HARDWARE, DEVICES AND INSULATION, ENCLOSURES, MOUNTS, AND WALL LOUVERS UNLESS OTHERWISE NOTED
10.	ALL ASBESTOS CONTAINING MATERIALS WILL BE REMOVED BY OTHERS PRIOR TO DEMOLITION.		

CONSULTANT

SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

PROJECT

[illegible]

SHEET TITLE

FEBRUARY 14, 2023

DRAWN	CHK'D	PROJECT NO.
JRB	DLS	19121

SHEET NO. _____

M-000



1. CONTRACTOR TO DISCHARGE AND INSULATE ALL REMAINING DUCTS FOLLOWING DEMOLITION WORK AS SPECIFIED FOR NEW MATERIALS.
2. CONTRACTOR TO REMOVE CEILING MATERIALS AND TEMPORARILY SUSPEND CEILING-MOUNTED DEVICES AS NEEDED TO PERFORM WORK, WHERE A CEILING REPLACEMENT IS NOT TO BE PERFORM. CONTRACTOR TO REINSTALL CEILING MATERIALS AND DEVICES FOLLOWING ABOVE-CEILING WORK, SEE ARCHITECTURAL PLANS.
3. ALL EXISTING CONTROLS AND ZONE SENSORS ASSOCIATED WITH DEMOLISHED EQUIPMENT ARE TO BE DEMOLISHED AND BLANK WALL PLATE ARE TO BE PROVIDED WHERE ZONE SENSORS ARE REMOVED.
4. ALL EXISTING DUCTS TO BE REUSED ARE TO BE INSPECTED PER SPECIFICATIONS AND TESTING REPORTS ARE TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO NEW WORK.

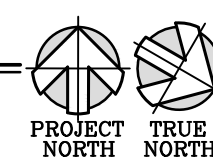
MD - 1	NOT USED THIS SHEET.
MD - 2	NOT USED THIS SHEET.
MD - 3	NOT USED THIS SHEET.
MD - 4	NOT USED THIS SHEET.
MD - 5	DEMOLISH VAV TERMINAL UNIT AND ASSOCIATED RUNOUT MEDIUM PRESSURE DUCT TO TRUNK. PATCH, SEAL AND INSULATE SUPPLY AIR TRUNK. DEMOLISH ASSOCIATED AIR TERMINALS AND CONTROLS.
MD - 6	DEMOLISH PERIMETER FAN COIL UNIT, ASSOCIATED CONTROLS, RUNOUT PIPING AND OA DUCT PATCH, SEAL AND INSULATE PIPING AND DUCT IN LOWER LEVEL. PROVIDE FIRESTOPPING AT ALL FLOOR PENETRATIONS.
MD - 7	DEMOLISH VAV TERMINAL UNIT AND ASSOCIATED RUNOUT MEDIUM PRESSURE DUCT. PATCH, SEAL AND INSULATE DUCT TRUNK. DEMOLISH ASSOCIATED AIR TERMINALS AND FLEX DUCT AND DEMOLISH LOW PRESSURE DUCT AS REQUIRED TO FACILITATE VAV REPLACEMENT AND AS INDICATED.
MD - 8	NOT USED THIS SHEET.





GENERAL NOTES

MECHANICAL DEMOLITION NOTES



FIRST FLOOR
DEMOLITION PLAN -
AREA B

BIDDING
DOCUMENTS

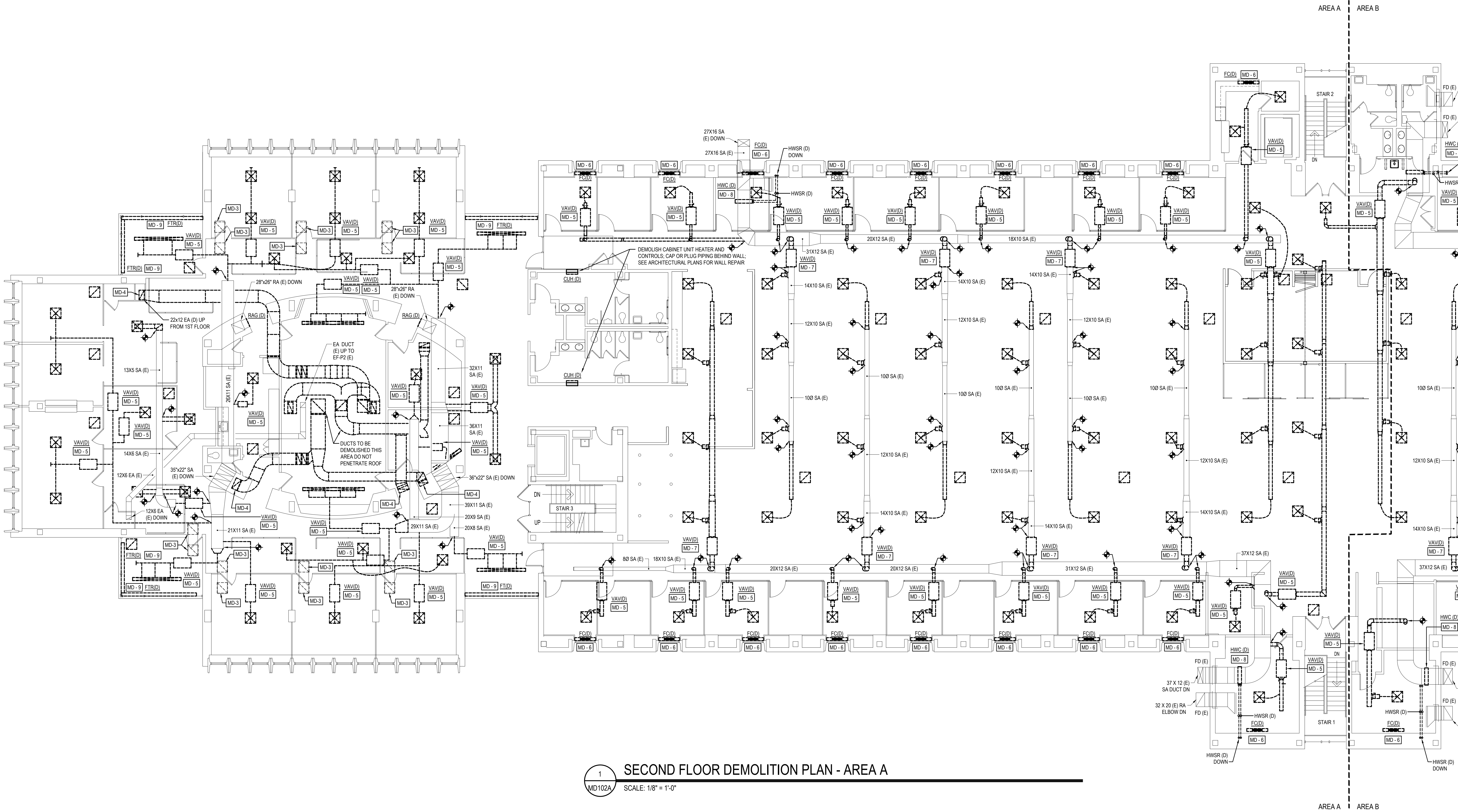
FEBRUARY 14, 2023

DRAWN JRB	CHK'D DLS	PROJECT NO. 19121
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SHEET NO.

MD101B

THE RECIPIENT OF THESE PLANS IS HEREBY ADVISED THAT THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF STUDIOJAED ARCHITECTS & ENGINEERS. NO PART OF THESE PLANS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF STUDIOJAED ARCHITECTS & ENGINEERS. THE RECIPIENT OF THESE PLANS IS HEREBY ADVISED THAT THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF STUDIOJAED ARCHITECTS & ENGINEERS. NO PART OF THESE PLANS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF STUDIOJAED ARCHITECTS & ENGINEERS.



1 SECOND FLOOR DEMOLITION PLAN - AREA A
MD102A SCALE: 1/8" = 1'-0"

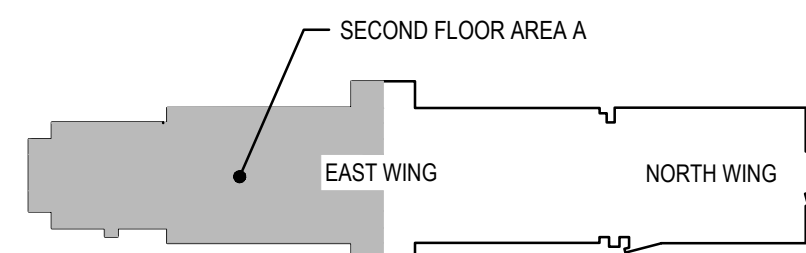
GENERAL NOTES

- CONTRACTOR TO PATCH, SEAL AND INSULATE ALL REMAINING DUCTS FOLLOWING DEMOLITION WORK AS SPECIFIED FOR NEW MATERIALS.
- CONTRACTOR TO REMOVE CEILING MATERIALS AND TEMPORARILY SUSPEND CEILING-MOUNTED DEVICES AS NEEDED TO PERFORM WORK. WHERE A CEILING REPLACEMENT IS NOT TO BE PERFORMED, CONTRACTOR TO REINSTALL CEILING MATERIALS AND DEVICES FOLLOWING ABOVE-CEILING WORK. SEE ARCHITECTURAL PLANS.
- ALL EXISTING CONTROLS AND ZONE SENSORS ASSOCIATED WITH DEMOLISHED EQUIPMENT ARE TO BE DEMOLISHED AND BLANK WALL PLATE ARE TO BE PROVIDED WHERE ZONE SENSORS ARE REMOVED.
- ALL EXISTING DUCTS TO BE REUSED ARE TO BE PRESSURE TESTED PER SPECIFICATIONS AND TESTING REPORTS ARE TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO NEW WORK.

MECHANICAL DEMOLITION NOTES

- MD - 1 NOT USED THIS SHEET.
- MD - 2 NOT USED THIS SHEET.
- MD - 3 DEMOLISH TRANSFER AIR GRILLE. RETAIN TRANSFER AIR DUCT FOR CONNECTION TO REPLACEMENT AIR TRANSFER GRILLE.
- MD - 4 DEMOLISH DUCT THROUGH FLOOR AND PROVIDE FIRESTOPPING. HILTI COMPOSITE SHEET MODEL CFS-COS OR APPROVED EQUAL WITH HILTI INTUMESCENT SEALANT MODEL FS-ONE MAX OR APPROVED EQUAL. PROVIDE 12"x12" ACCESS PANEL IN EXISTING MASONRY WALL.
- MD - 5 DEMOLISH VAV TERMINAL UNIT, ASSOCIATED LOW PRESSURE DUCT AND RUNOUT MEDIUM PRESSURE DUCT TO TRUNK. PATCH, SEAL AND INSULATE SUPPLY AIR TRUNK. DEMOLISH ASSOCIATED AIR TERMINALS AND CONTROLS.
- MD - 6 DEMOLISH PERIMETER FAN COIL UNIT, ASSOCIATED CONTROLS, RUNOUT PIPING AND OA DUCT. PATCH, SEAL AND INSULATE PIPING AND DUCT IN LOWER LEVEL.
- MD - 7 DEMOLISH VAV TERMINAL UNIT AND ASSOCIATED RUNOUT MEDIUM PRESSURE DUCT. PATCH, SEAL AND INSULATE DUCT TRUNK. DEMOLISH ASSOCIATED AIR TERMINALS AND FLEX DUCT AND DEMOLISH LOWER PRESSURE DUCT AS REQUIRED TO FACILITATE VAV REPLACEMENT AND AS INDICATED.
- MD - 8 DEMOLISH HW COIL, ASSOCIATED CONTROLS AND RUNOUT PIPING. PATCH, SEAL AND INSULATE SUPPLY AIR DUCT AND PIPING.
- MD - 9 DEMOLISH FTR COVER, CONTROLS, AND ASSOCIATED HYDRONIC ACCESSORIES BUT RETAIN FINNED TUBE RADIATOR. DEMOLISH PIPING AS REQUIRED TO FACILITATE NEW WORK.

SECOND FLOOR KEY PLAN
SCALE: NTS



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OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. M45511000003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, COVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE
SECOND FLOOR DEMOLITION PLAN - AREA A
BIDDING DOCUMENTS
FEBRUARY 14, 2023
DRAWN: JRB
CHKD: DLS
PROJECT NO.: 19121
SHEET NO.: MD102A



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1000 S BAY RD, STE 110
REAR, NEWARK, DE 19701
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Email: info@studiojaed.com
Website: www.studiojaed.com



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

1. CONTRACTOR TO PATCH, SEAL AND INSULATE ALL REMAINING DUCTS FOLLOWING DEMOLITION WORK AS SPECIFIED FOR NEW MATERIALS.
2. CONTRACTOR TO REMOVE CEILING MATERIALS AND TEMPORARILY SUSPEND CEILING-MOUNTED DEVICES AS NEEDED TO PERFORM WORK. WHERE A CEILING REPLACEMENT IS NOT TO BE PERFORM, CONTRACTOR TO REINSTALL CEILING MATERIALS AND DEVICES FOLLOWING ABOVE-CEILING WORK. SEE ARCHITECTURAL PLANS.
3. ALL EXISTING CONTROLS AND ZONE SENSORS ASSOCIATED WITH DEMOLISHED EQUIPMENT ARE TO BE DEMOLISHED AND BLANK WALL PLATE ARE TO BE PROVIDED WHERE ZONE SENSORS ARE REMOVED.
4. ALL EXISTING DUCTS TO BE REUSED ARE TO BE INSPECTED TESTED PER SPECIFICATIONS AND TESTING REPORTS ARE TO BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO NEW WORK.

MD-1	NOT USED THIS SHEET.
MD-2	NOT USED THIS SHEET.
MD-3	NOT USED.
MD-4	NOT USED.
MD-5	DEMOLISH VAV TERMINAL UNIT, ASSOCIATED LOW PRESSURE DUCT AND RUNOUT MEDIUM PRESSURE DUCT TO TRUNK. PATCH, SEAL AND INSULATE SUPPLY AIR TRUNK. DEMOLISH ASSOCIATED AIR TERMINALS AND CONTROLS.
MD-6	DEMOLISH PERIMETER FAN COIL UNIT, ASSOCIATED CONTROLS, RUNOUT PIPING AND OA DUCT. PATCH, SEAL AND INSULATE PIPING AND DUCT IN LOWER LEVEL.
MD-7	DEMOLISH VAV TERMINAL UNIT AND ASSOCIATED RUNOUT, MEDIUM PRESSURE DUCT, PATCH, SEAL AND INSULATE DUCT TRUNK. DEMOLISH ASSOCIATED AIR TERMINALS AND FLEX DUCT AND DEMOLISH LOWER PRESSURE DUCT AS REQUIRED TO FACILITATE VAV REPLACEMENT AND AS INDICATED.
MD-8	DEMOLISH HW COIL, ASSOCIATED CONTROLS AND RUNOUT PIPING. PATCH, SEAL AND INSULATE SUPPLY AIR DUCT AND PIPING.
MD-9	NOT USED THIS SHEET.

SHEET TITLE

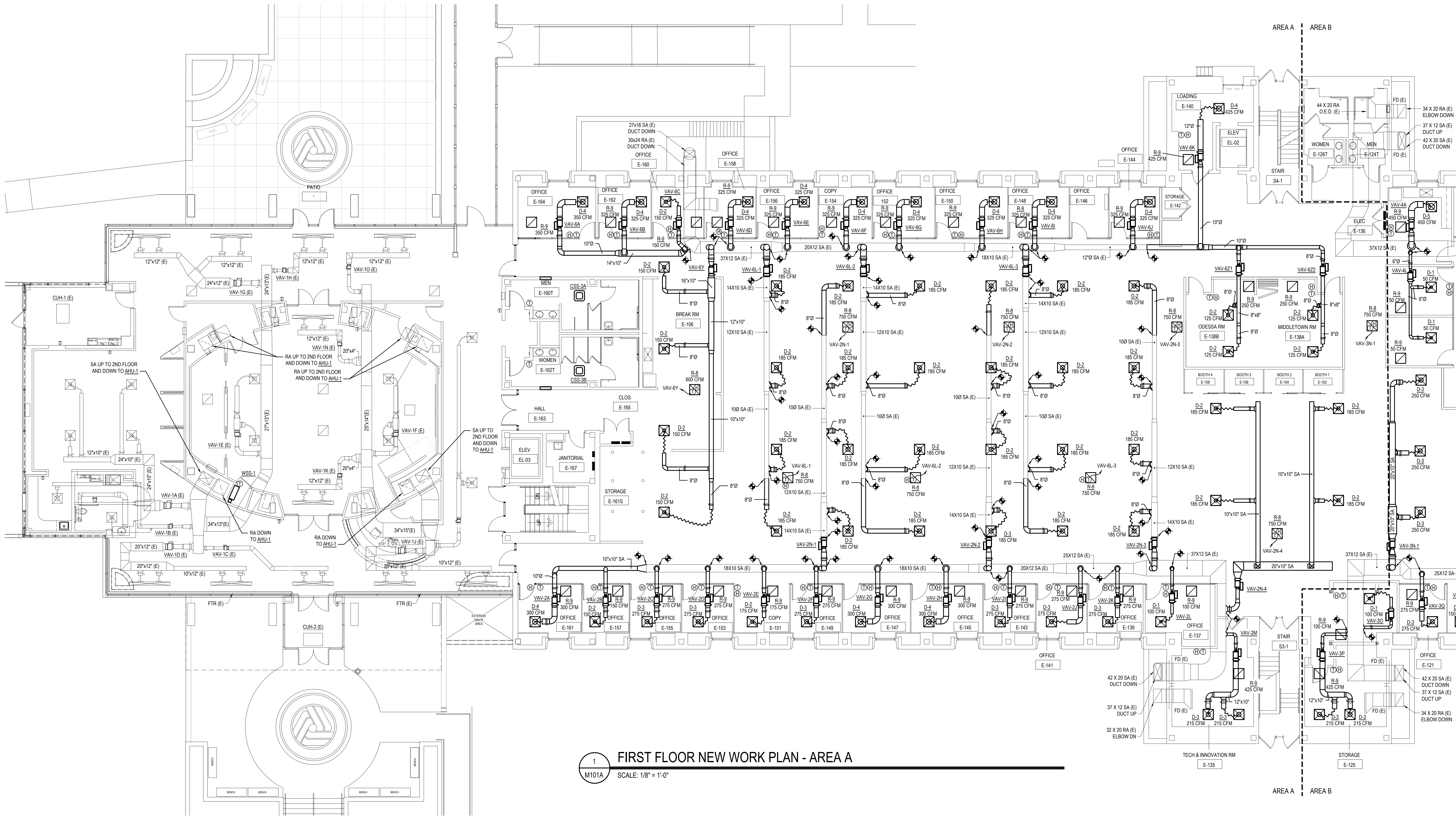
FEBRUARY 14, 2023

SHEET NO.

MD102B

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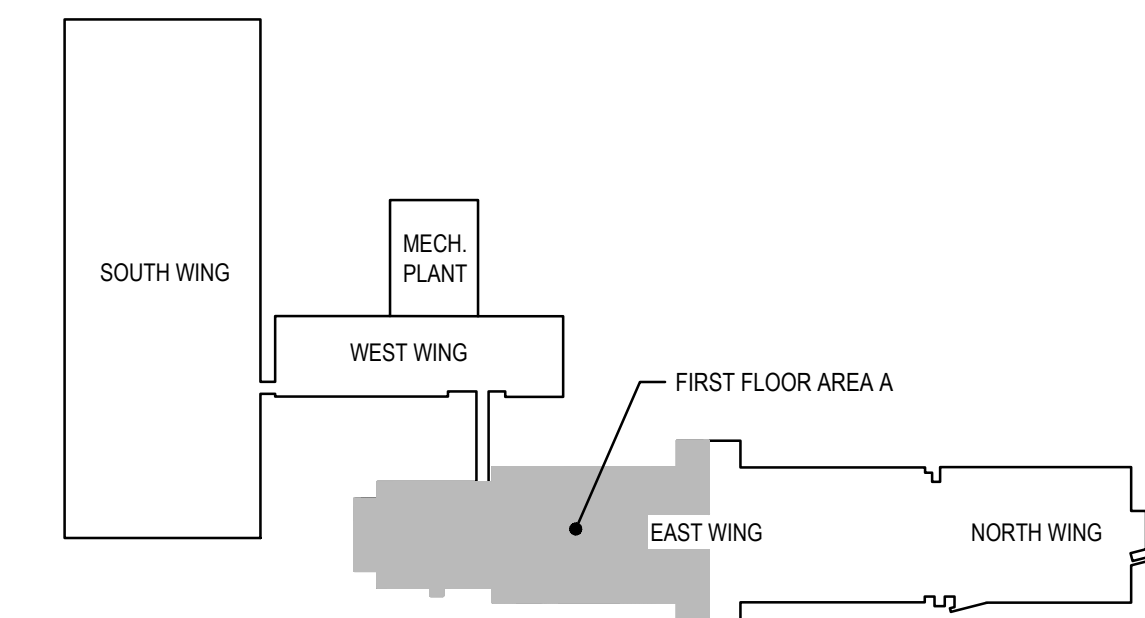
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1 FIRST FLOOR NEW WORK PLAN - AREA A
SCALE: 1/8" = 1'-0"

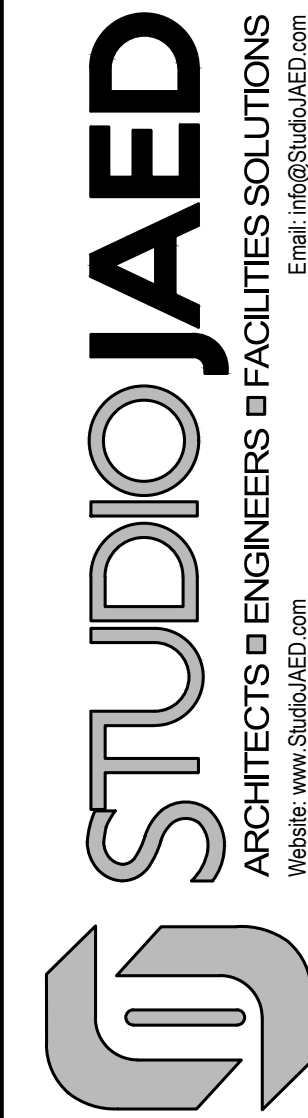
GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS OF EXISTING DUCTWORK TO BE CONNECTED TO NEW DUCTS AND PROVIDE TRANSITIONS AS REQUIRED.
2. ALL DUCT SMOKE DETECTORS ARE TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, AND WIRED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
3. ALL EXISTING DUCTS BETWEEN AHU's AND VAV TERMINAL UNITS IS DOUBLE-WALL OVAL AND ALL MODIFICATIONS TO EXISTING DUCTS ARE TO BE SEALED, AND INSULATED AS SUCH. ALL NEW DUCTS BETWEEN AHU's AND VAV's IS TO BE SEALED AND TESTED AS MEDIUM PRESSURE DUCT.
4. ALL DUCT DIMENSIONS ARE GIVEN IN INCHES UNLESS NOTED OTHERWISE.
5. AT LOCATIONS WHERE WORK IS REQUIRED ABOVE CEILINGS BUT CEILING REPLACEMENT IS NOT INCLUDED IN THE SCOPE OF WORK, CONTRACTOR IS TO REMOVE AND REINSTALL CEILING MATERIALS AND CEILING-MOUNTED DEVICES AS REQUIRED TO FACILITATE WORK. SEE CEILING REPLACEMENT PLANS FOR COORDINATION.
6. ALL NEW AND EXISTING DUCTS ARE TO BE LEAK-TESTED PER SPECIFICATIONS.
7. AS-BUILT DRAWINGS ARE TO INCLUDE ALL NEW AND EXISTING DUCTS AND HVAC PIPING.
8. AT LOCATIONS WHERE TEMPERATURE OR HUMIDITY SENSORS ARE SHOWN AT RETURN AIR GRILLES, PROVIDE SECTION OF RETURN AIR DUCT TO MATCH DIMENSIONS OF GRILLE INLET FOR MOUNTING SENSORS.



FIRST FLOOR KEY PLAN

SCALE: NTS



CONSULTANT

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SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. M15511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. COVER, DELAWARE 19001

PROJECT

REVISIONS

MARK	DESCRIPTION	DATE

SHEET TITLE

FIRST FLOOR NEW
WORK PLAN - AREA A

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

DRAWN	CHKD	PROJECT NO.
JRB	DLS	19121

SHEET NO.

M101A



1. CONTRACTOR TO VERIFY ALL DIMENSIONS OF EXISTING DUCTWORK TO BE CONNECTED TO NEW DUCTS AND PROVIDE TRANSITIONS AS REQUIRED.
2. ALL DUCT SMOKE DETECTORS ARE TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AND WIRE BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
3. ALL EXISTING DUCTS BETWEEN AHUs AND VAV TERMINAL UNITS IS DOUBLE WALL OVAL AND ALL MODIFICATIONS TO EXISTING DUCTS ARE TO BE SEALED, AND INSULATED AS SUCH. ALL NEW DUCTS BETWEEN AHUs AND VAVs IS TO BE SEALED AND TESTED AS MEDIUM PRESSURE DUCT.
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6. ALL NEW AND EXISTING DUCTS ARE TO BE LEAK-TESTED PER SPECIFICATIONS.
7. AS-BUILT DRAWINGS ARE TO INCLUDE ALL NEW AND EXISTING DUCTS AND HVAC PIPING.
8. AT LOCATIONS WHERE TEMPERATURE OR HUMIDITY SENSORS ARE SHOWN AT RETURN AIR GRILLES, PROVIDE METHOD OF RETURN AIR DUCT TO MATCH DIMENSIONS OF GRILLE INLET FOR MOUNTING SENSORS.

M101B



1. CONTRACTOR TO VERIFY ALL DIMENSIONS OF EXISTING DUCTWORK TO BE CONNECTED TO NEW DUCTS AND PROVIDE TRANSITIONS AS REQUIRED.
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OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

SECOND FLOOR NEW
WORK PLAN - AREA B

BIDDING
DOCUMENTS

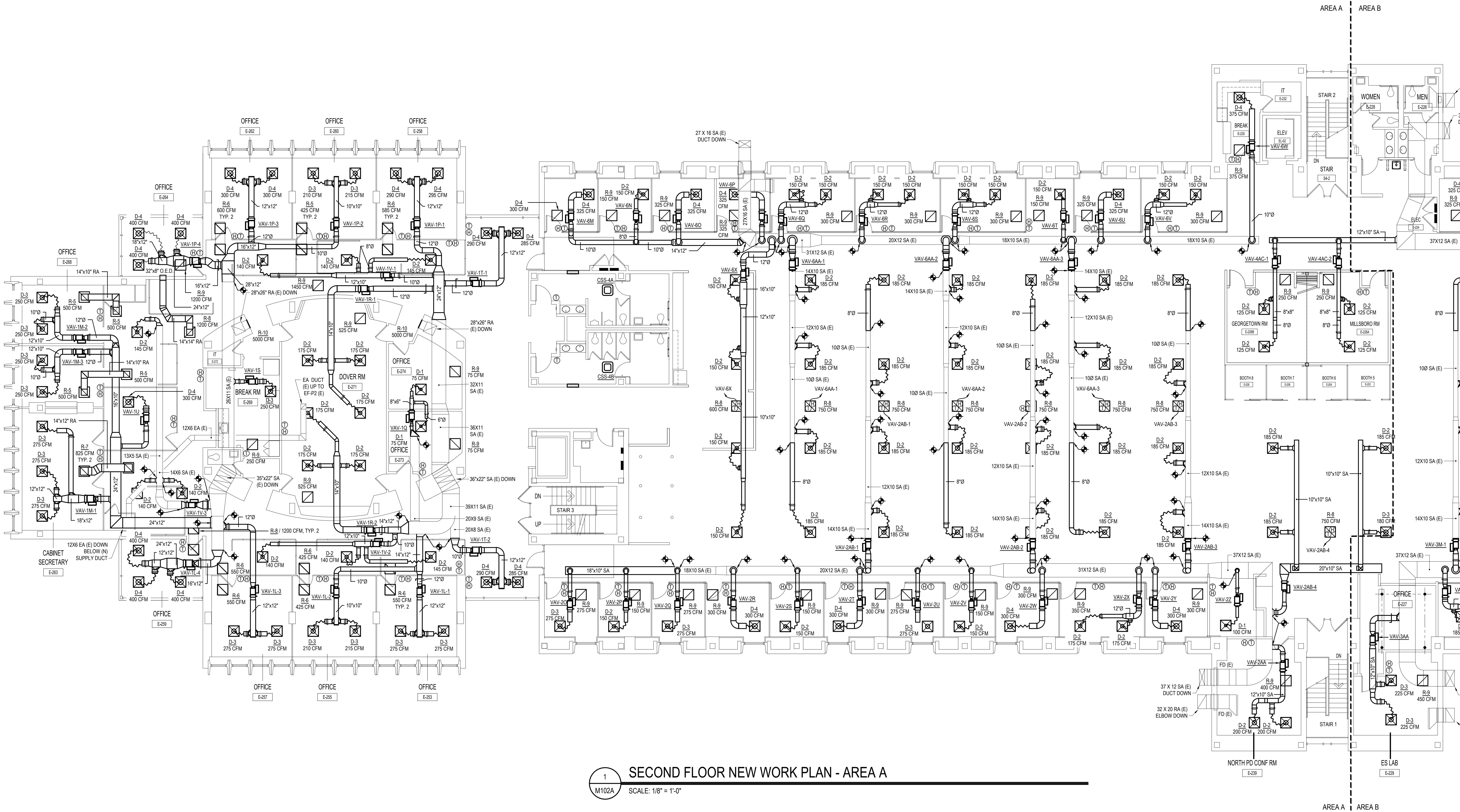
FEBRUARY 14, 2023

DRAWN	CHK'D	PROJECT NO.
JRB	DLS	19121

SHEET NO.

M102B

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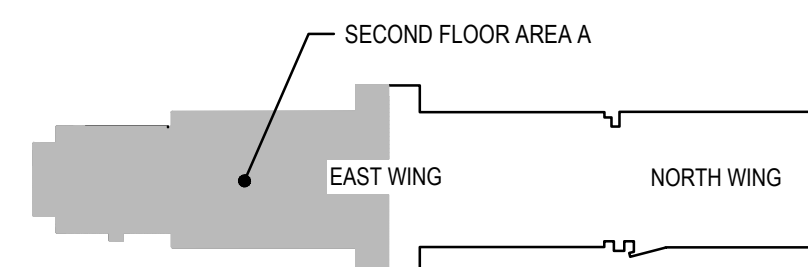
1 SECOND FLOOR NEW WORK PLAN - AREA A
M102A SCALE: 1/8" = 1'-0"

GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS OF EXISTING DUCTWORK TO BE CONNECTED TO NEW DUCTS AND PROVIDE TRANSITIONS AS REQUIRED.
- ALL DUCT SMOKE DETECTORS ARE TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, AND WIRED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
- ALL EXISTING DUCTS BETWEEN AHU's AND VAV TERMINAL UNITS IS DOUBLE-WALL OVAL AND ALL MODIFICATIONS TO EXISTING DUCTS ARE TO BE SEALED, AND INSULATED AS SUCH. ALL NEW DUCTS BETWEEN AHU's AND VAV's IS TO BE SEALED AND TESTED AS MEDIUM PRESSURE DUCT.
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- ALL NEW AND EXISTING DUCTS ARE TO BE LEAK-TESTED PER SPECIFICATIONS.
- AS-BUILT DRAWINGS ARE TO INCLUDE ALL NEW AND EXISTING DUCTS AND HVAC PIPING.
- AT LOCATIONS WHERE TEMPERATURE OR HUMIDITY SENSORS ARE SHOWN AT RETURN AIR GRILLES, PROVIDE SECTION OF RETURN AIR DUCT TO MATCH DIMENSIONS OF GRILLE INLET FOR MOUNTING SENSORS.

SECOND FLOOR KEY PLAN

SCALE: NTS



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SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. M15511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, DOVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE

SECOND FLOOR NEW WORK PLAN - AREA A

BIDDING DOCUMENTS
FEBRUARY 14, 2023

DRAWN	CHKD	PROJECT NO.
JRB	DLS	19121

SHEET NO.

M102A

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ARCHITECTS & ENGINEERS
FACILITIES SOLUTIONS

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P: 302.632.1602

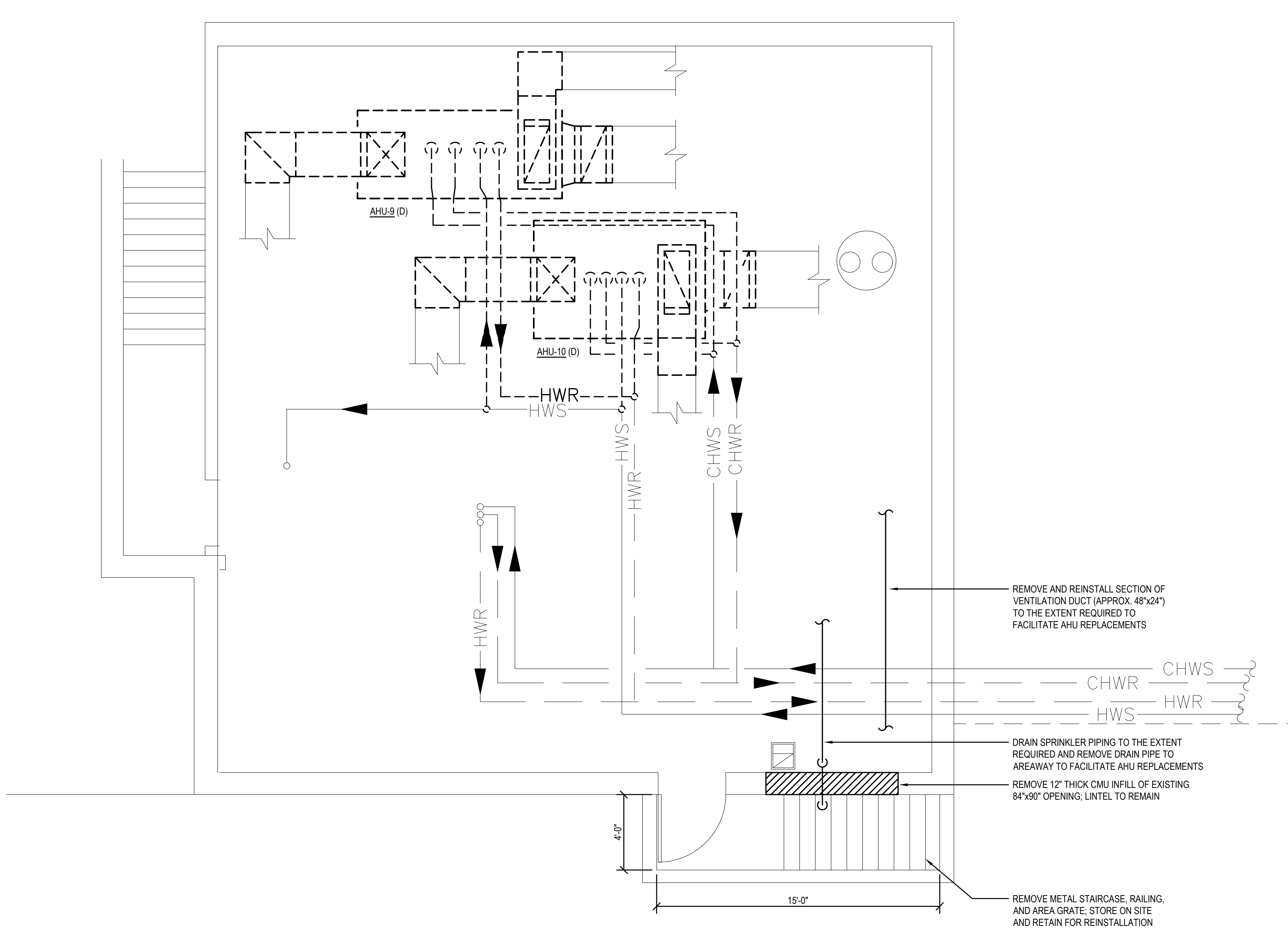
PROVIDENCE OFFICE
1000 N. MARKET ST., 110
REAR, REHARBE 19001
P: 302.632.1602

MARYLAND OFFICE
1000 N. MARKET ST., 110
REAR, REHARBE 19001
P: 302.632.1602

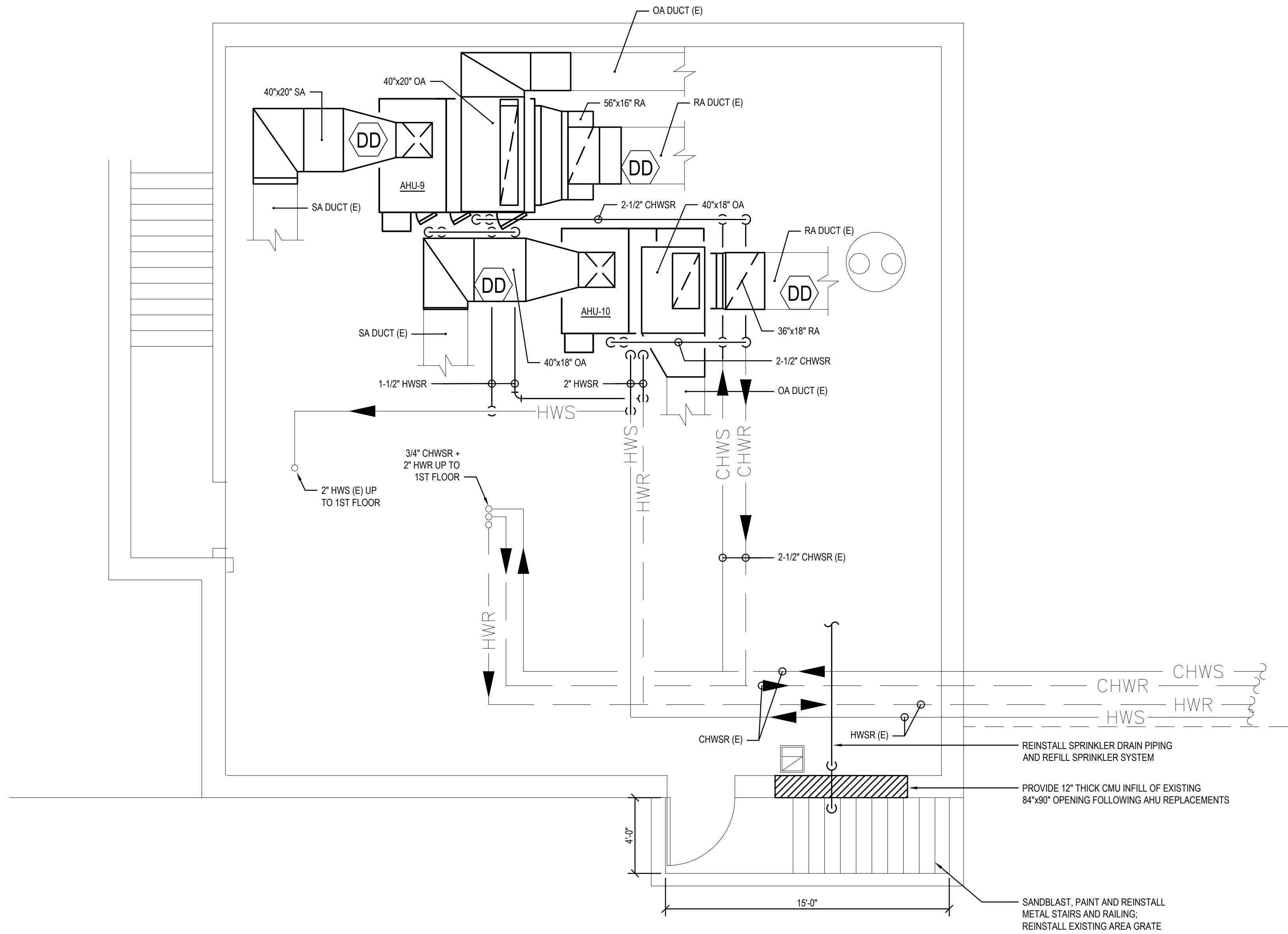
Website: www.studiojaed.com
Email: info@studiojaed.com

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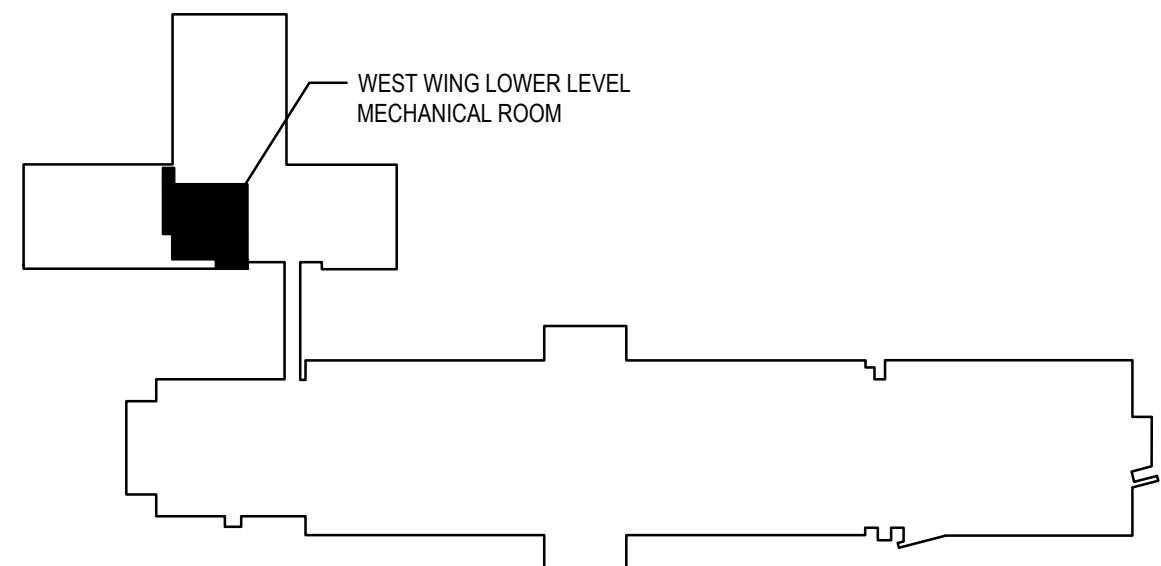
1 LOWER LEVEL WEST WING HVAC DEMOLITION PLAN - ADD ALT NO. 1
M-401 SCALE: 1/4" = 1'-0"



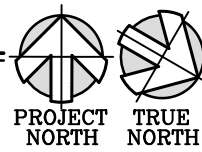
2 LOWER LEVEL WEST WING HVAC NEW WORK PLAN - ADD ALT NO. 1
M-401 SCALE: 1/4" = 1'-0"

AHU-#		INDOOR MODULAR AIR HANDLING UNIT SCHEDULE - ADD ALTERNATE NO. 1																							
UNIT NUMBER	COOLING SUPPLY AIRFLOW (CFM)	HEATING SUPPLY AIRFLOW (CFM)	MINIMUM OUTSIDE AIR (CFM)	SUPPLY FAN E.S.P. (IN-WG)	HOT WATER HEATING COIL					CHILLED WATER COOLING COIL								SUP FAN HP	ELEC	TRANE MODEL #	REMARKS				
					EAT (°F)	LAT (°F)	EWI (°F)	LWT (°F)	FLOW (GPM)	WPD (FT. H2O)	TOTAL MBH	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	SENSIBLE MBH	TOTAL MBH					EWI (°F)	LWT (°F)	FLOW GPM	WPD (FT. H2O)
AHU-9	7500	7500	2000	0.5	45.0	73.5	180	160	23.2	4	232	80.0	67.0	55.0	54.6	207	288	45	55	57.4	9	15	4603/60	CSAA014	HEATING COIL IN REHEAT POSITION; LARGEST SHIP SPLIT SHALL BE 42" x 72" x 43"L
AHU-10	5975	5975	1500	0.5	45.0	86.2	180	160	26.7	8	267	80.0	67.0	55.0	54.6	165	229	45	55	45.7	6	7.5	4603/60	CSAA012	HEATING COIL IN PREHEAT POSITION; LARGEST SHIP SPLIT SHALL BE 42" x 67" x 43"L
NOTES: PROVIDE UNITS AS SCHEDULED BY TRANE OR APPROVED EQUAL MODULAR AIR HANDLING UNIT. UNITS ARE TO BE PROVIDED WITH A CHILLED WATER COOLING COIL AND HOT WATER HEATING COIL. PROVIDE UNITS WITH DOUBLE-WALL CONSTRUCTION. UNITS ARE TO BE PROVIDED WITH BASE RAILS OF HEIGHT SELECTED SO AS TO ALLOW CONDENSATE TRAPPING PER MANUFACTURER'S REQUIREMENTS. SUPPLY FANS SHALL BE PROVIDED WITH VFDs WHICH ARE TO BE FURNISHED IN ACCORDANCE WITH 23 09 69 VARIABLE SPEED CONTROLLERS AND FIELD-MOUNTED. UNITS SHALL BE PROVIDED WITH A SINGLE-POINT POWER CONNECTION AND A FACTORY-MOUNTED AND WIRED CONVENIENCE GFCI RECEPTACLE HAVING SEPARATE 120V POWER CONNECTION. UNITS SHALL HAVE 100% ECONOMIZER CAPABILITY AND BE EQUIPPED WITH MIXING BOXES. ALL UNITS SHALL BE PROVIDED WITH SERPENTINE FREEZE-STAT HAVING MANUAL AND AUTOMATIC RESET AT THE HOT WATER COIL. PROVIDE MERV-8 FILTRATION ON ALL UNITS UNLESS OTHERWISE NOTED. ALL UNITS SHALL BE EQUIPPED WITH A FIELD-INSTALLED PHASE FAILURE MONITOR TO PROTECT EQUIPMENT AGAINST PHASE LOSS AS WELL AS CROSSED PHASES OR INCORRECT ROTATION. PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL DUCT CONNECTIONS. UNITS SHALL BE PROVIDED IN SECTIONS TO FIT THROUGH AVAILABLE OPENINGS, AND SHALL BE PROVIDED WITH SINGLE-SIDE ACCESS.																									

- ### GENERAL NOTES
- CONTRACTOR TO VERIFY ALL DIMENSIONS OF EXISTING DUCTWORK TO BE CONNECTED TO NEW DUCTS AND PROVIDE TRANSITIONS AS REQUIRED.
 - ALL DUCT SMOKE DETECTORS ARE TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, AND WIRED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
 - ALL DUCT DIMENSIONS ARE GIVEN IN INCHES UNLESS NOTED OTHERWISE.
 - ALL NEW AND EXISTING DUCTS ARE TO BE LEAK-TESTED PER SPECIFICATIONS.
 - ALL EXISTING AIR HANDLING UNITS ARE TO BE DEMOLISHED AND REMOVED FROM SITE. EXISTING HOUSEKEEPING PADS ARE TO BE DEMOLISHED AND THE FLOOR IS TO BE LEVELED WITH NEW CONCRETE. NEW HOUSEKEEPING PADS ARE TO BE PROVIDED WITH NEW UNITS, AND ARE TO BE 4" HIGH WITH 4" CLEARANCE AROUND ALL SIDES OF AHU.
 - PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL DUCT CONNECTIONS TO AHUs.
 - AHU-9 AND AHU-10 ARE TO BE PROVIDED WITH THE SAME SEQUENCE OF OPERATION AS EXISTING AHU-9 AND AHU-10.



LOWER LEVEL KEY PLAN
SCALE: NTS



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SIGNATURE:
DATE OF SIGNATURE:
DATE OF REGISTRATION EXPIRATION:
ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. M65511000003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, COVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE
WEST WING LOWER LEVEL HVAC PLANS - ADD ALTERNATE NO. 1

BIDDING DOCUMENTS
FEBRUARY 14, 2023

DRAWN DLS	CH'D DLS	PROJECT NO. 19121
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SHEET NO.
M-401

RETURN GRILLE SCHEDULE			
UNIT NUMBER	PRICE HVAC MODEL #	SIZE (FACE/NECK)	TYPE
R-1	APDOR	24"x24" / 6"x6"	ALUMINUM PERFORATED RETURN GRILLE
R-2	APDOR	24"x24" / 8"x8"	ALUMINUM PERFORATED RETURN GRILLE
R-3	APDOR	24"x24" / 10"x10"	ALUMINUM PERFORATED RETURN GRILLE
R-4	APDOR	24"x24" / 12"x12"	ALUMINUM PERFORATED RETURN GRILLE
R-5	APDOR	24"x24" / 14"x14"	ALUMINUM PERFORATED RETURN GRILLE
R-6	APDOR	24"x24" / 16"x16"	ALUMINUM PERFORATED RETURN GRILLE
R-7	APDOR	24"x24" / 18"x18"	ALUMINUM PERFORATED RETURN GRILLE
R-8	APDOR	24"x24" / 22"x22"	ALUMINUM PERFORATED RETURN GRILLE
R-9	APFRF	24"x24" / 24"x24"	PERFORATED PLENUM RETURN GRILLE
R-10	97 SERIES	24"x72" / 24"x72"	HEAVY-DUTY ALUMINUM GRILLE

WSS-# WALL MOUNTED DUCTLESS SPLIT SCHEDULE						
UNIT NUMBER	INDOOR UNIT					REMARKS
	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	ELEC	FAN POWER (W)	SAMSUNG MODEL #	
WSS-1	18	20	208/160	27	AC018MNA0CHXAA	PAIRS WITH HP-1

NOTES: PROVIDE UNIT(S) AS SCHEDULED BY MITSUBISHI OR APPROVED EQUAL. SEQUENCE OF OPERATION FOR IT ROOM DUCTLESS SPLIT UNITS, AND CONDENSATE REMOVAL PUMP (LITTLE GALT VCMX-ULS OR APPROVED EQUAL).

PUMP SCHEDULE

GPM	TDH (FT)	RPM	IMP. Ø (IN)	ELEC	HP	MANUFACTURER	MODEL	REMARKS
350	100	1745	10.75	460/300	15	BELL & GOSSETT	e-1510 3GB	
350	100	1745	10.75	460/300	15	BELL & GOSSETT	e-1510 3GB	
500	100	1722	10.5	460/300	20	BELL & GOSSETT	e-1510 4EB	
500	100	1722	10.5	460/300	20	BELL & GOSSETT	e-1510 4EB	

GOSSETT OR APPROVED EQUAL. ALL PUMPS ARE TO BE PROVIDED WITH BASE-MOUNTED, END-SUCTION WITH SHAFT GRINDING RINGS BY AEGIS OR APPROVED
EQUIPMENT WITH PREMIUM EFFICIENCY, INVERTER-DUTY MOTORS WITH VENDOR-SUPPLIED VFD IN COMPLIANCE WITH SPECIFICATION 23.09.69 VARIABLE FREQUENCY

PUMP SCHEDULE										
P-#										
UNIT NUMBER	UNIT TYPE	GPM	TDH (FT)	RPM	IMP. Ø (N)	ELEC	HP	MANUFACTURER	MODEL	REMARKS
P-HW1	END-SUCTION	350	100	1745	10.75	460/360	15	BELL & GOSSETT	e-1510 3GB	
P-HW2	END-SUCTION	350	100	1745	10.75	460/360	15	BELL & GOSSETT	e-1510 3GB	
P-CW1	END-SUCTION	500	100	1722	10.5	460/360	20	BELL & GOSSETT	e-1510 4EB	
P-CW2	END-SUCTION	500	100	1722	10.5	460/360	20	BELL & GOSSETT	e-1510 4EB	

NOTES: PROVIDE PUMPS BY BELL & GOSSETT OR APPROVED EQUAL. ALL PUMPS ARE TO BE PROVIDED AS BASE-MOUNTED. END-SUCTION WITH SHAFT GROUNDING RINGS BY AEGIS OR APPROVED. ALL PUMPS ARE TO BE PROVIDED WITH PREMIUM EFFICIENCY, INVERTER-SUPPLIED MOTORS WITH VENDOR-SUPPLIED VFD IN COMPLIANCE WITH SPECIFICATION 23.89 VARIAVLE FREQUENCY CONTROLLERS.



OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

SHEET TITLE

FEBRUARY 14, 2023

SHEET NO.

M-500

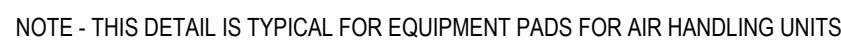
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4/25/2023 10:13 AM

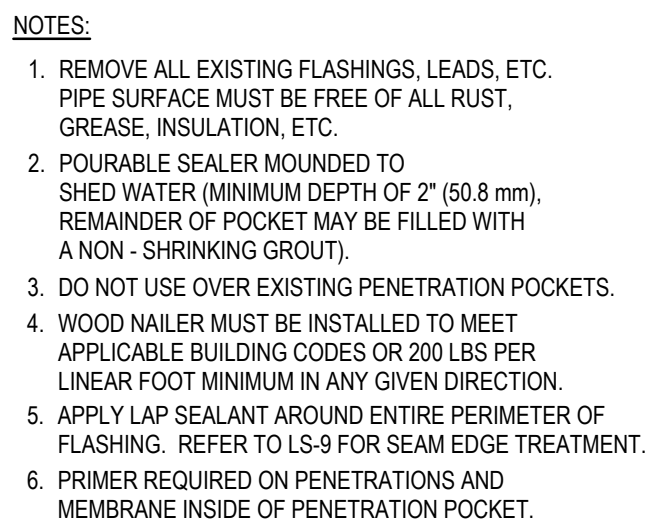
VAV-#																				VARIABLE AIR VOLUME BOX SCHEDULE - PART 1									
UNIT NUMBER	SIZE	MAXIMUM CFM	HEATING CFM	MINIMUM CFM	INLET S.P. (IN-WG)	MIN. S.P. (IN-WG)	MAX COIL A.P.D. (IN-WG)	COIL E.A.T. (°F)	COIL L.A.T. (°F)	COIL HEAT (MBH)	COIL E.W.T. (°F)	COIL L.W.T. (°F)	GPM	MAX. COIL W.P.D. (FT H2O)	# ROWS	# CIRCUITS	ELEC	MFG MODEL #	REMARKS										
VAV-1L-1	08	550	225	225	1.0	0.23	0.22	55	93	9.2	140	118	0.9	0.2	2	2	120/160	TSS											
VAV-1L-2	08	425	200	200	1.0	0.15	0.14	55	94	8.5	140	118	0.8	0.2	2	2	120/160	TSS											
VAV-1L-3	08	550	225	225	1.0	0.23	0.22	55	93	9.2	140	118	0.9	0.2	2	2	120/160	TSS											
VAV-1L-4	12	1100	400	400	1.0	0.23	0.22	55	93	16.7	140	118	1.5	0.2	2	4	120/160	TSS											
VAV-1M-1	12	825	350	350	1.0	0.15	0.14	55	95	15.1	140	118	1.4	0.2	2	4	120/160	TSS											
VAV-1M-2	08	500	200	200	1.0	0.20	0.19	55	94	8.4	140	118	0.8	0.2	2	2	120/160	TSS											
VAV-1M-3	08	450	200	200	1.0	0.17	0.16	55	94	8.4	140	118	0.8	0.2	2	2	120/160	TSS											
VAV-1P-1	10	575	250	250	1.0	0.14	0.13	55	91	9.6	140	120	1.0	0.2	2	4	120/160	TSS											
VAV-1P-2	08	425	175	175	1.0	0.15	0.14	55	95	7.6	140	119	0.7	0.2	2	2	120/160	TSS											
VAV-1P-3	10	600	250	250	1.0	0.15	0.14	55	91	9.6	140	120	1.0	0.2	2	4	120/160	TSS											
VAV-1P-4	12	1200	450	450	1.0	0.26	0.25	55	92	18.0	140	120	1.6	0.3	2	4	120/160	TSS											
VAV-1Q	04	150	100	100	1.0	0.05	0.04	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-1R-1	10	525	250	250	1.0	0.12	0.11	55	99	11.9	140	117	1.1	0.4	2	2	120/160	TSS											
VAV-1R-2	10	525	250	250	1.0	0.12	0.11	55	99	11.9	140	117	1.1	0.4	2	2	120/160	TSS											
VAV-1S	05	250	200	200	1.0	0.09	0.08	55	90	7.6	140	119	0.7	0.1	2	2	120/160	TSS											
VAV-1T-1	10	575	250	250	1.0	0.14	0.13	55	91	9.6	140	120	1.0	0.2	2	4	120/160	TSS											
VAV-1T-2	10	575	250	250	1.0	0.14	0.13	55	91	9.6	140	120	1.0	0.2	2	4	120/160	TSS											
VAV-1U	06	300	150	150	1.0	0.15	0.11	55	93	6.2	140	120	0.6	0.2	2	2	120/160	TSS											
VAV-1V-1	08	425	200	200	1.0	0.15	0.14	55	94	8.5	140	118	0.8	0.2	2	2	120/160	TSS											
VAV-1V-2	08	425	200	200	1.0	0.15	0.14	55	94	8.5	140	118	0.8	0.2	2	2	120/160	TSS											
VAV-1V-3	08	425	200	200	1.0	0.15	0.14	55	94	8.5	140	118	0.8	0.2	2	2	120/160	TSS											
VAV-2A	06	300	100	100	1.0	0.15	0.11	55	96	4.5	140	121	0.5	0.2	2	2	120/160	TSS											
VAV-2AA	08	400	200	200	1.0	0.14	0.13	55	94	8.4	140	118	0.8	0.2	2	2	120/160	TSS											
VAV-2AB-1	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-2AB-2	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-2AB-3	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-2AB-4	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-2B	04	150	100	100	1.0	0.05	0.04	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2C	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2D	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2E	04	175	100	100	1.0	0.06	0.05	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2F	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2G	06	300	100	100	1.0	0.15	0.11	55	96	4.5	140	121	0.5	0.2	2	2	120/160	TSS											
VAV-2H	06	300	100	100	1.0	0.15	0.11	55	96	4.5	140	121	0.5	0.2	2	2	120/160	TSS											
VAV-2I	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2J	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2K	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2L	04	100	50	50	1.0	0.03	0.02	55	108	2.9	140	121	0.3	0.1	2	2	120/160	TSS											
VAV-2M	08	425	200	200	1.0	0.15	0.14	55	94	8.5	140	118	0.8	0.2	2	2	120/160	TSS											
VAV-2N-1	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-2N-2	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-2N-3	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-2N-4	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-2O	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2P	04	150	100	100	1.0	0.05	0.04	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2Q	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2R	06	300	100	100	1.0	0.15	0.11	55	96	4.5	140	121	0.5	0.2	2	2	120/160	TSS											
VAV-2S	04	150	100	100	1.0	0.05	0.04	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2T	06	300	100	100	1.0	0.15	0.11	55	96	4.5	140	121	0.5	0.2	2	2	120/160	TSS											
VAV-2U	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2V	04	150	100	100	1.0	0.05	0.04	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-2W	06	300	100	100	1.0	0.15	0.11	55	96	4.5	140	121	0.5	0.2	2	2	120/160	TSS											
VAV-2X	06	350	125	125	1.0	0.20	0.14	55	95	5.4	140	121	0.6	0.2	2	2	120/160	TSS											
VAV-2Y	06	300	100	100	1.0	0.15	0.11	55	96	4.5	140	121	0.5	0.2	2	2	120/160	TSS											
VAV-2Z	04	100	50	50	1.0	0.03	0.02	55	108	2.9	140	121	0.3	0.1	2	2	120/160	TSS											
VAV-3A	06	375	125	125	1.0	0.23	0.16	55	95	5.4	140	121	0.6	0.2	2	2	120/160	TSS											
VAV-3AA	08	450	200	200	1.0	0.20	0.14	55	90	7.6	140	119	0.7	0.3	2	2	120/160	TSS											
VAV-3B	06	375	125	125	1.0	0.23	0.16	55	95	5.4	140	121	0.6	0.2	2	2	120/160	TSS											
VAV-3C	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-3D	06	375	125	125	1.0	0.23	0.16	55	95	5.4	140	121	0.6	0.2	2	2	120/160	TSS											
VAV-3E	04	150	100	100	1.0	0.05	0.04	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-3F	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-3G	06	300	100	100	1.0	0.15	0.11	55	96	4.5	140	121	0.5	0.2	2	2	120/160	TSS											
VAV-3H	05	275	100	100	1.0	0.11	0.10	55	96	4.5	140	121	0.5	0.1	2	2	120/160	TSS											
VAV-3I	06	300	100	100	1.0	0.15	0.11	55	96	4.5	140	121	0.5	0.2	2	2	120/160	TSS											
VAV-3J	06	375	125	125	1.0	0.23	0.16	55	95	5.4	140	121	0.6	0.2	2	2	120/160	TSS											
VAV-3K	04	100	75	75	1.0	0.03	0.02	55	101	3.7	140	121	0.4	0.1	2	2	120/160	TSS											
VAV-3L	06	300	150	150	1.0	0.15	0.11	55	93	6.2	140	120	0.6	0.2	2	2	120/160	TSS											
VAV-3M-1	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-3M-2	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-3M-3	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-3M-4	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-3N-1	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-3N-2	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-3N-3	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-3N-4	10	750	450	300	1.0	0.23	0.22	55	92	18.0	140	117	1.6	0.2	2	4	120/160	TSS											
VAV-3O	04	100	50</																										



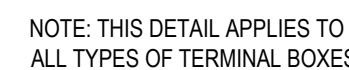
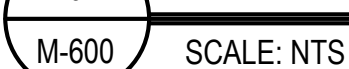
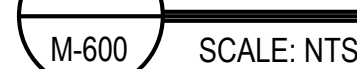
M-600 SCALE: NTS



M-600 SCALE: NTS



M-600 SCALE: NTS



TERMINAL BOX BRANCH DUCT SCHEDULE (UNLESS NOTED OTHERWISE)					
CFM RANGE	0-400	0-800	0-1200	0-1500	0-2000
BOX SIZE	6"Ø	8"Ø	10"Ø	12"Ø	14"Ø
DUCT SIZE	8"Ø	10"Ø	12"Ø	12"Ø	14"Ø

M-600 SCALE: NTS

DELAWARE OFFICE
2500 WIRANGLE HILL ROAD, STE. 110
BEAR, DELAWARE 19701

PROVIDENCE OFFICE
42 WEYBOSSET STREET, STE. 403
PROVIDENCE, RHODE ISLAND 02903

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ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING

800 S BAY RD, DOVER, DELAWARE 19901

PROJECT

REVISIONS

[illegible]

SHEET TITLE

TYPICAL DETAILS

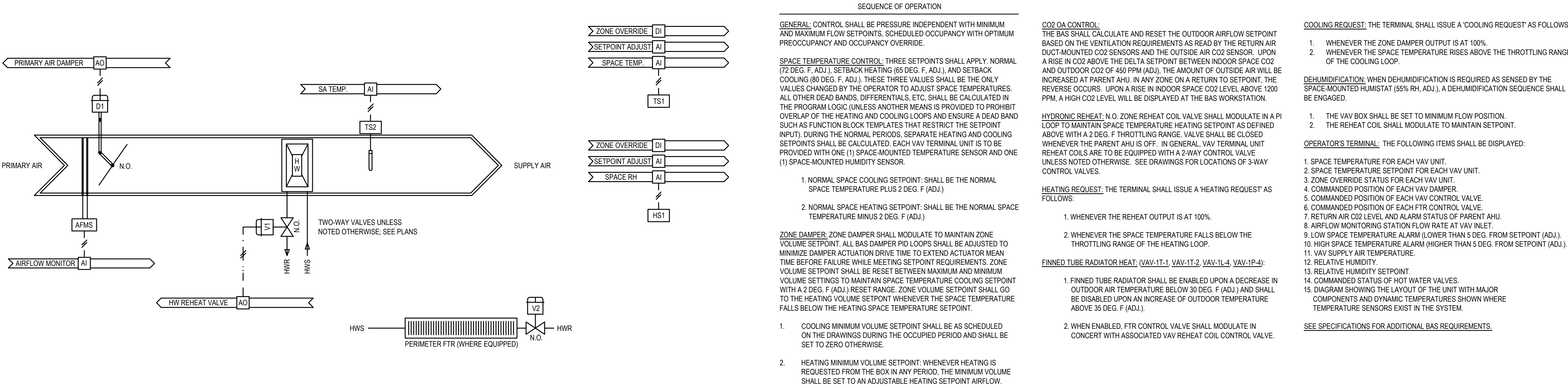
BIDDING DOCUMENTS

FEBRUARY 14, 2023

DRAWN	CHK'D	PROJECT NO.
JRB	DLS	19121

SHEET NO.

M-600



2
M-601
SCALE: NTS
CONTROLS SCHEMATIC FOR VAV BOX WITH HOT WATER REHEAT COIL, WITH OR WITHOUT CO2 CONTROL AND WITH OR WITHOUT FINNED TUBE RADIATOR HEAT

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OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. M6551100003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, COVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

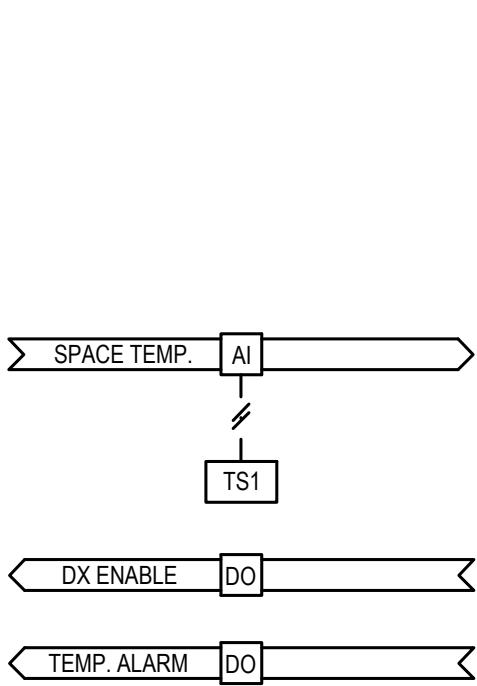
SHEET TITLE
MECHANICAL CONTROL SCHEMATICS

BIDDING DOCUMENTS
FEBRUARY 14, 2023

DRAWN	CHKD	PROJECT NO.
TMC	DLS	19121

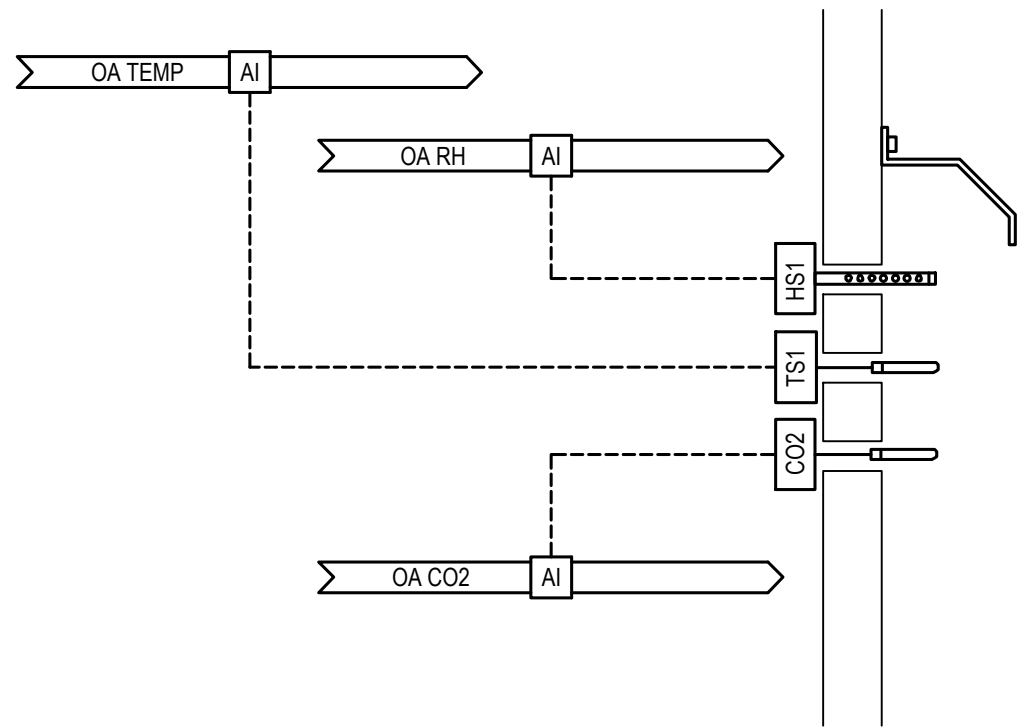
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M-601

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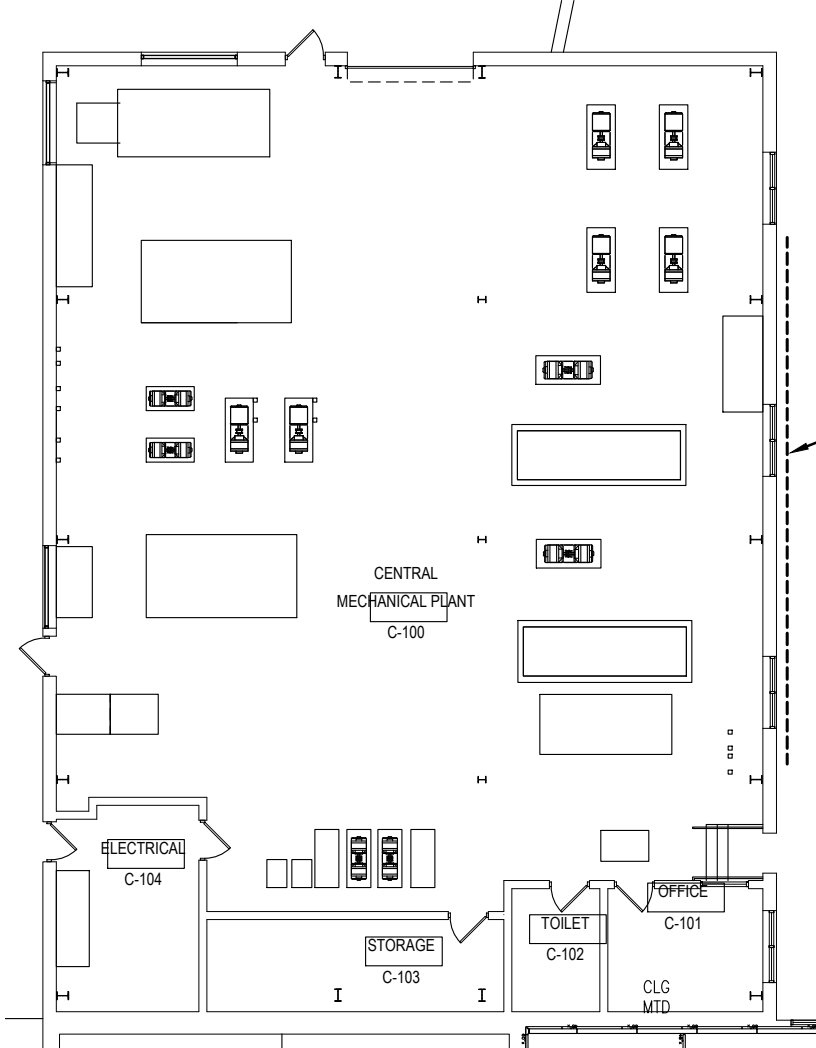
1 CONTROLS SCHEMATIC FOR DUCTLESS SPLIT HVAC UNITS

M-602 SCALE: NTS



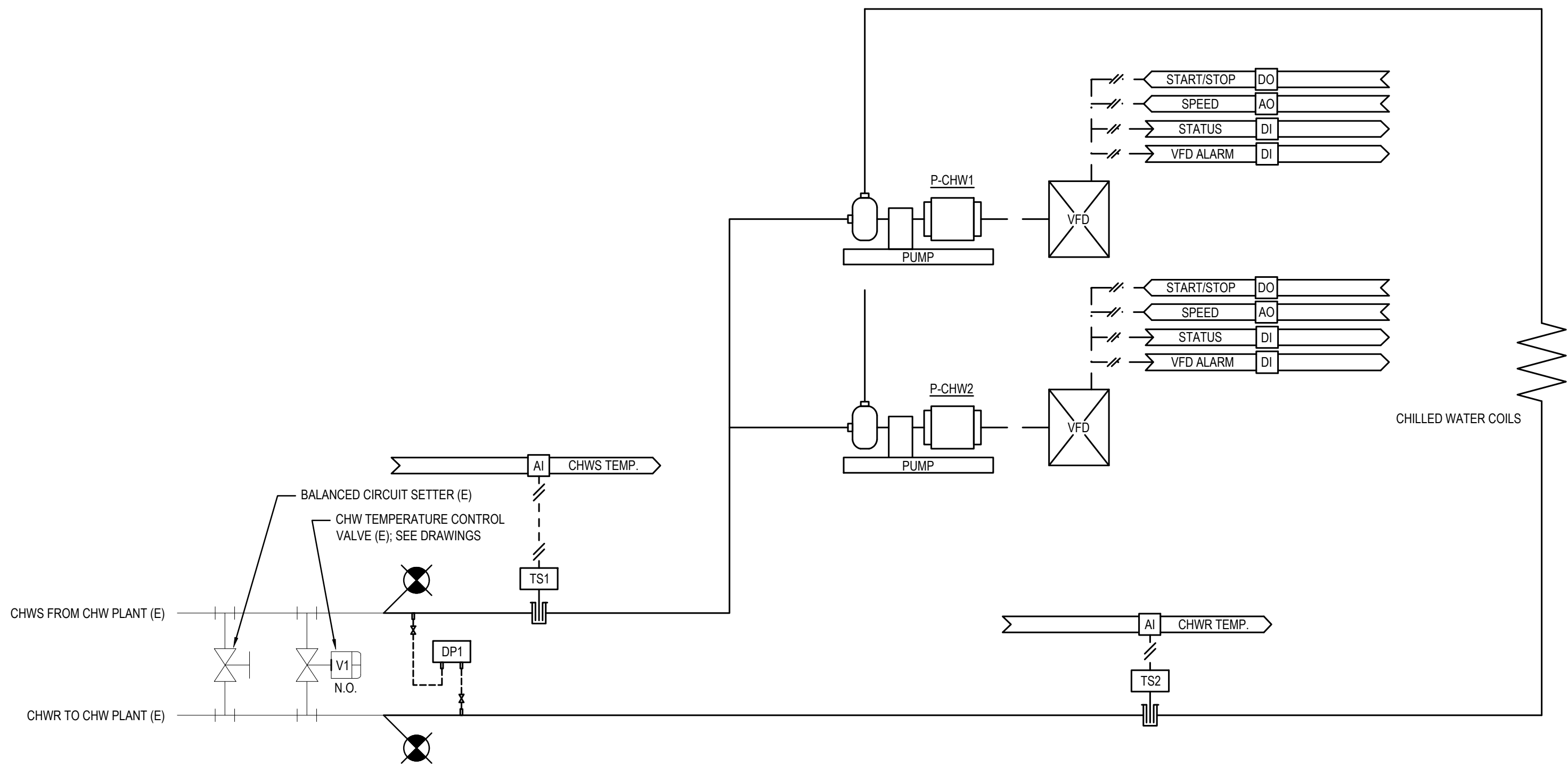
2 CONTROLS SCHEMATIC FOR GLOBAL OUTDOOR AIR SENSORS

M-602 SCALE: NTS



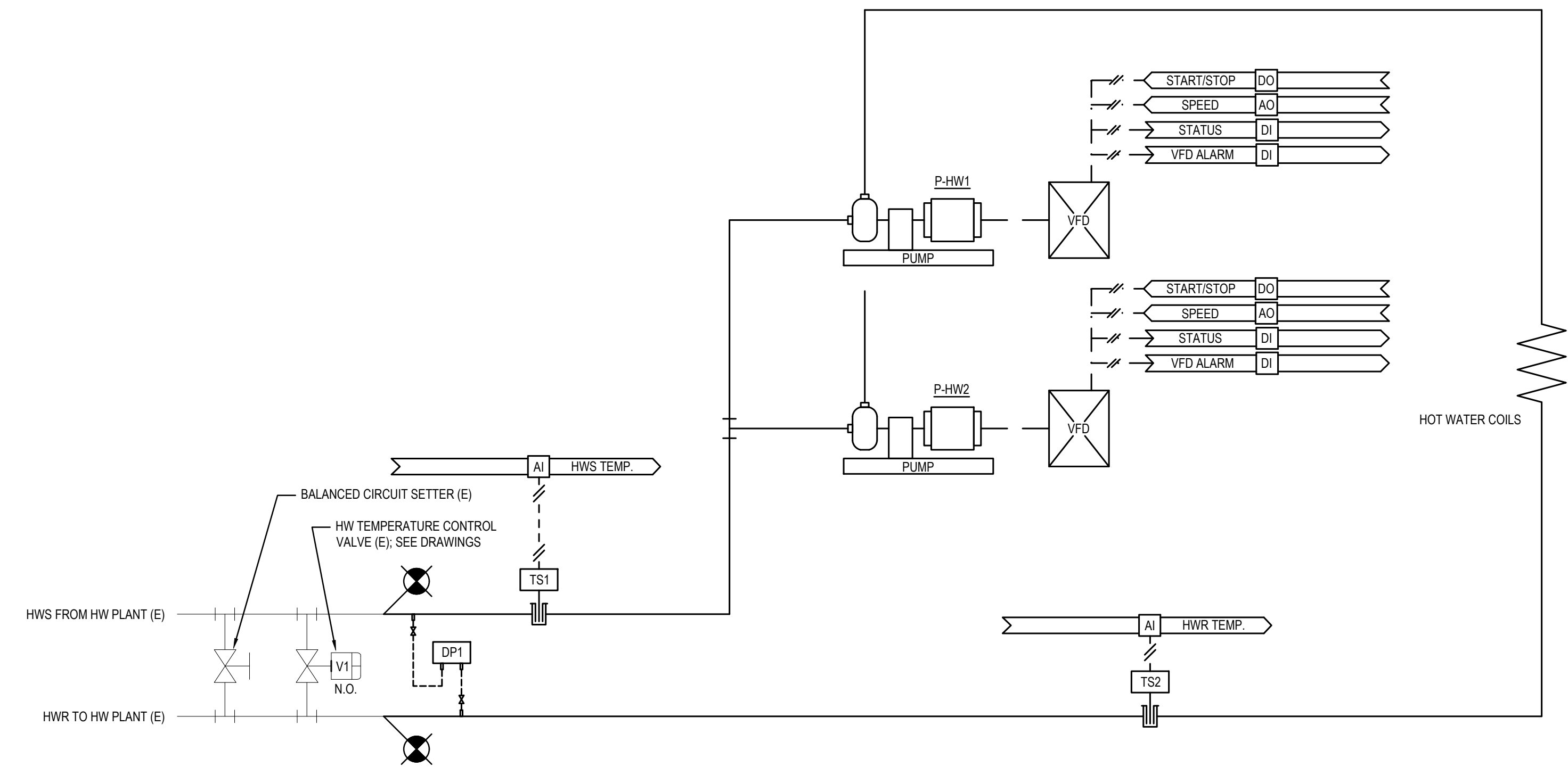
5 GLOBAL OUTDOOR AIR SENSOR LOCATIONS

M-602 SCALE: NTS



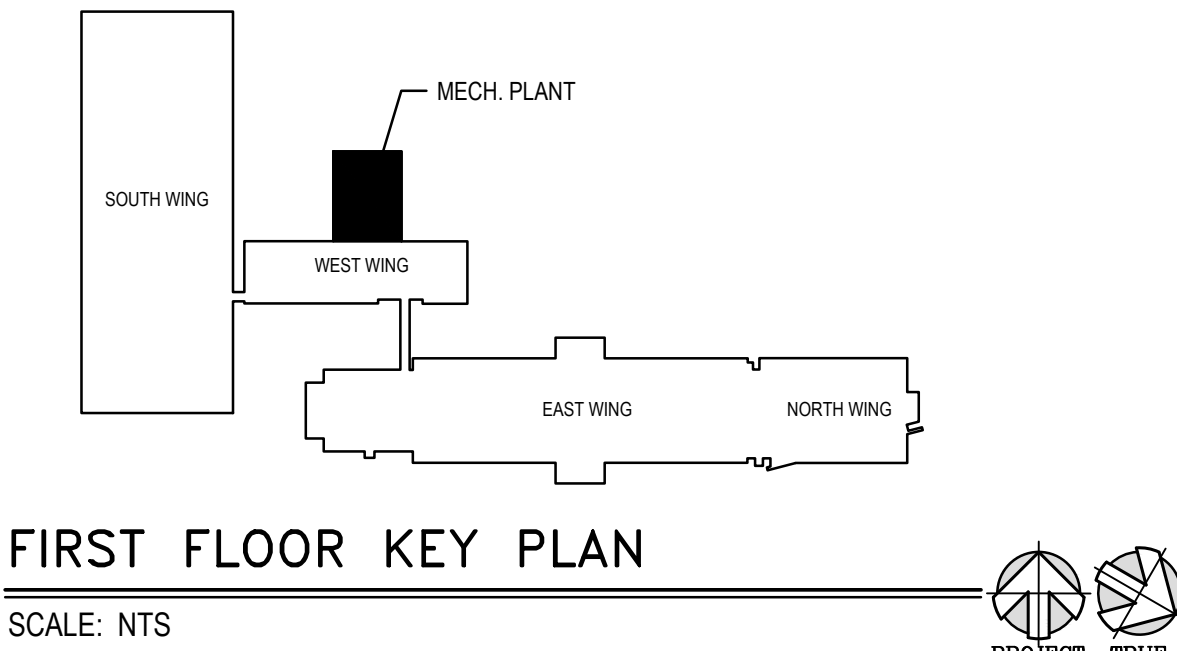
3 CONTROLS SCHEMATIC FOR CHILLED WATER PUMPS

M-602 SCALE: NTS



4 CONTROLS SCHEMATIC FOR HOT WATER PUMPS

M-602 SCALE: NTS



STUDIOJAED

ARCHITECTS & ENGINEERS & FACILITIES SOLUTIONS

Website: www.StudioJAED.com

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CRUMPTON, MARYLAND 21035
P: 410.648.0884
F: 410.648.0885

DELAWARE OFFICE: 100 W. 110 AVE. STE. 110
REAR, DELAWARE 19701
P: 302.832.1602

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DATE OF SIGNATURE: _____
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ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. COVER, DELAWARE 19901

PROJECT

REVISIONS		
MARK	DESCRIPTION	DATE

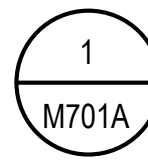
SHEET TITLE

MECHANICAL CONTROL
SCHEMATICS

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

DRAWN	CHKD	PROJECT NO.
DLS	DLS	19121
SHEET NO.		

M-602



SCALE: NTS

[illegible]

SHEET TITLE

FIRST FLOOR AIRFLOW
BALANCING DIAGRAM -
AREA A

**BIDDING
DOCUMENTS**
FEBRUARY 14, 2023

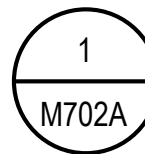
DRAWN	CHK'D	PROJECT NO.
TMC	DLS	19121

SHEET NO.

M701A



4/25/2023 10:13 AM



SCALE: NTS



THE PROFESSIONAL SERVICES OF THE ARCHITECT ARE UNDERTAKEN FOR AND ARE PERFORMED IN THE INTEREST OF [NAME OF PERSON EMPLOYING ARCHITECT]. NO CONTRACTUAL OBLIGATION IS ASSUMED BY THE ARCHITECT FOR THE BENEFIT OF ANY OTHER PERSON INVOLVED IN THE PROJECT.

SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

SHEET TITLE

**BIDDING
DOCUMENTS**
FEBRUARY 14, 2023

DRAWN	CHK'D	PROJECT NO.
TC	DLS	19121

SHEET NO. _____

M702A



THE PROFESSIONAL SERVICES OF THE ARCHITECT ARE UNDERTAKEN FOR AND ARE PERFORMED IN THE INTEREST OF [NAME OF PERSON EMPLOYING ARCHITECT]. NO CONTRACTUAL OBLIGATION IS ASSUMED BY THE ARCHITECT FOR THE BENEFIT OF ANY OTHER PERSON INVOLVED IN THE PROJECT.

ARCHITECT / ENGINEER SEA

PROJECT

SHEET TITLE

**BIDDING
DOCUMENTS**
FEBRUARY 14, 2023

SHEET NO.

M702B

1. ALL FLOOR AND WALL PENETRATIONS SHALL BE SLEEVED AND SEALED. SEE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL NEW PIPING PENETRATIONS IN WALLS AND FLOORS. THE PIPING PLANS DO NOT SPECIFICALLY NOTE WHERE PIPING PENETRATES WALLS AND FLOORS. IT IS THE CONTRACTORS RESPONSIBILITY PRIOR TO BID TO STUDY THE PLANS AND IF NECESSARY EVALUATE THE SITE, TO ACCOUNT FOR ALL PIPING PENETRATIONS OF THE EXISTING STRUCTURE.
3. THE CONTRACTOR SHALL PROVIDE NEW SUPPORTS OF COMPATIBLE MATERIAL FOR ALL NEW PIPING.
4. ALL CONTROL VALVES TO BE INSTALLED OVER DRAIN PANS IN HVAC UNITS.
5. ALL PIPING SHALL BE SIZED AS CALLED OUT ON DRAWINGS, AND MAY NOT BE DOWN SIZED BETWEEN CONTROL VALVE AND COIL.
6. ALL NEW EXPOSED PIPING IN OCCUPIED AREAS SHALL BE ENCLOSED IN CUSTOM FIT TUBE ENCLOSURES OF 14 GA STEEL. UNITS SHALL BE PAINTED. COIL SHALL BE SLEEVED BY ARCHITECT.
7. PROVIDE AIR VENTS AT ALL HIGH POINTS IN SYSTEM. PROVIDE DRAIN VALVES AT ALL LOW POINTS IN SYSTEM.
8. PROVIDE ISOLATION VALVES AT ALL BRANCH PIPING TAKEOFFS.
9. COORDINATE INSTALLATION OF ALL NEW PIPING WITH EXISTING FIRE PROTECTION PIPING, CONDUIT, EXHAUST/RELIEF DUCT WORK, AND STRUCTURE.

	HYDRONIC PIPING
	EXISTING HYDRONIC PIPING
	CONDENSATE PIPING
	SHUTOFF VALVE
	BALANCING VALVE
	CHECK VALVE
	ATC 2-WAY CONTROL VALVE
	STRAINER
	BAC TEMP SENSOR TO BE CONNECTED TO BAC SYSTEM
	BASE MOUNTED PUMP
	IN-LINE PUMP
	HOT WATER/ SUPPLY AND RETURN
	DUEL TEMP/ SUPPLY AND RETURN
	CONDENSATE DRAIN PIPING
	CHILLED WATER SUPPLY AND RETURN

ALL DEMOLISHED HEATING SUPPLY AND RETURN PIPING, VALVES, FITTINGS, INSULATION AND HANGERS ARE TO BE REMOVED AND TAKEN OFF SITE AND BECOME PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. PIPING THAT IS TO BE ABANDONED IN PLACE SHALL BE CUT AND CAPPED BELOW FLOOR OR WITHIN TRENCH, AND THE OPENING SEALED WITH CONCRETE. 2. PROVIDE TEMPORARY COVERS AND CAPS FOR TEMPORARILY EXPOSED EXISTING PIPING, EQUIPMENT AND WALL OPENINGS. TEMPORARY COVERS AND CAPS SHALL BE SUFFICIENT TO ENSURE DIRT, WEATHER AND CONSTRUCTION DEBRIS WILL NOT ENTER ANY SYSTEM OR WALL, ROOF OR FLOOR OPENING. 3. SEE ELECTRICAL PLANS FOR INFORMATION ON WIRING TERMINATION OF DEMOLISHED EQUIPMENT. 4. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING DEMOLITION PLAN. 5. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL ROOFTOP AND WALL OPENINGS CREATED BY DEMOLITION SUITABLE FOR WITHSTANDING WEATHER CONDITIONS. 6. THE CONTRACTOR SHALL PROVIDE FLOOR PROTECTION IN THE BUILDING. ANY DAMAGE TO THE FLOOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND REPAIR COSTS SHALL BE BACK CHARGED TO THE CONTRACTOR. 7. ALL ASBESTOS CONTAINING MATERIALS WILL BE REMOVED BY OTHERS PRIOR TO DEMOLITION. 8. THE INFORMATION SHOWN ON THESE DRAWINGS WAS COMPILED FROM EXISTING DRAWINGS AND SITE VISITS. HOWEVER, THE INFORMATION MAY STILL VARY FROM THE ACTUAL INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION FOR DEMOLITION WORK.	P ----- PUMP ----- HYDRONIC SUPPLY AND RETURN PIPING ----- PIPING ELBOW DOWN ----- PIPING ELBOW UP ----- DEMOLISH MECHANICAL EQUIPMENT INCLUDING ALL RELATED PIPING, INSULATION, VALVES, FITTINGS, DUCTWORK, INSULATION, HANGERS, SUPPORTS, HARDWARE, DEVICES AND INSULATION, ENCLOSURES, MOUNTS, AND WALL LOUVERS UNLESS OTHERWISE NOTED
---	--



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SIGNATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, DOVER, DELAWARE 19901

REVISIONS

SHEET TITLE

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

SHEET NO.

H-000

HD-1	DEMOLISH HW PUMPS, ASSOCIATED PIPING AND ACCESSORIES AND PIPING AS REQUIRED TO FACILITATE REPLACEMENT AND AS INDICATED. DEMOLISH HOUSEKEEPING PAD OR INERTIA BASE AND RE-FINISH FLOOR WITH NEW CONCRETE.
HD-2	DEMOLISH CHW PUMPS, ASSOCIATED PIPING ACCESSORIES AND PIPING AS REQUIRED TO FACILITATE REPLACEMENT AND AS INDICATED. DEMOLISH HOUSEKEEPING PAD OR INERTIA BASE AND RE-FINISH FLOOR WITH NEW CONCRETE.
HD-3	NOT USED.
HD-4	ROUTE AND CLEAN EXISTING 4" AREA DRAIN, MAKE OPERABLE AND PROVIDE NEW CAST IRON STRAINER BASKET.
HD-5	DEMOLISH ABANDONED INSTANTANEOUS WATER HEATER, DEMOLISH RUNOUT PIPING FROM AREA AND CAP OR PLUG, AND DEMOLISH BREECING THROUGH WALL AND PATCH EXTERIOR WALL WEATHER-TIGHT WITH MORTAR INFILL.
HD-6	NOT USED THIS SHEET.
HD-7	PIPING UP TO FAN COILS TO BE DEMOLISHED.

1. CONTRACTOR TO PATCH, SEAL AND INSULATE REMAINING PIPING FOLLOWING DEMOLITION WORK AS SPECIFIED FOR NEW MATERIALS.
2. CONTRACTOR TO REMOVE CEILING MATERIALS AND TEMPORARILY SUSPEND CEILING-MOUNTED DEVICES AS NEEDED TO PERFORM WORK, WHERE A CEILING REPLACEMENT IS NOT TO BE PERFORM, CONTRACTOR TO REINSTALL CEILING MATERIALS AND DEVICES FOLLOWING ABOVE-CEILING WORK. SEE ARCHITECTURAL PLANS.
3. ALL EXISTING CONTROLS AND ZONE SENSORS ASSOCIATED WITH DEMOLISHED EQUIPMENT ARE TO BE DEMOLISHED AND BLANK WALL PLATE ARE TO BE PROVIDED WHERE ZONE SENSORS ARE REMOVED.
4. ALL OPEN PIPING TERMINATIONS LEFT FOLLOWING PIPING DEMOLITION ARE TO BE VALVED AND CAPPED.
5. ALL CORRIDOR WALL PENETRATIONS LEFT FOLLOWING PIPING DEMOLITION ARE TO BE SEALED FOR SMOKE RATING.
6. CONTRACTOR SHALL VERIFY ALL CONNECTED EQUIPMENT PRIOR TO PROCEEDING WITH PIPE DEMOLITION AND REPORT INCONSISTENCIES TO ENGINEER FOR DIRECTION.



CONSULTANT

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NATURE: _____
DATE OF SIGNATURE: _____
DATE OF REGISTRATION EXPIRATION: _____
ARCHITECT / ENGINEER SEAL _____

[illegible]

RAWN	CHK'D	PROJECT NO.
IRB	DLS	19121
SHEET NO.		

HD100A

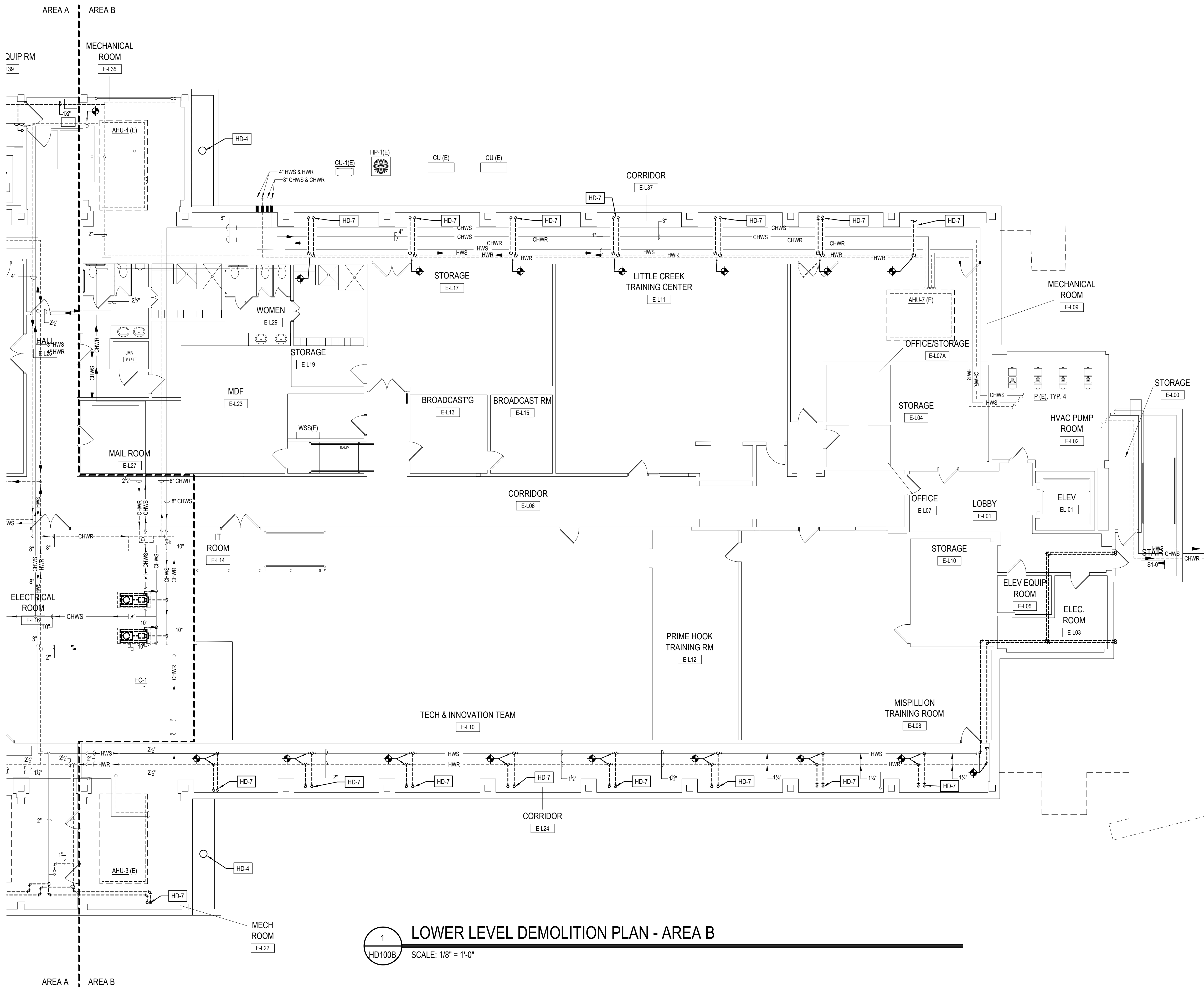
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HYDRONIC DEMOLITION NOTES

- HD-1 NOT USED THIS SHEET.
- HD-2 NOT USED THIS SHEET.
- HD-3 NOT USED.
- HD-4 ROUTE AND CLEAN EXISTING 4" AREA DRAIN, MAKE OPERABLE AND PROVIDE NEW CAST IRON STRAINER BASKET.
- HD-5 NOT USED THIS SHEET.
- HD-6 NOT USED THIS SHEET.
- HD-7 PIPING UP TO FAN COILS TO BE DEMOLISHED.

GENERAL NOTES

- CONTRACTOR TO PATCH, SEAL AND INSULATE REMAINING PIPING FOLLOWING DEMOLITION WORK AS SPECIFIED FOR NEW MATERIALS.
- CONTRACTOR TO REMOVE CEILING MATERIALS AND TEMPORARILY SUSPEND CEILING-MOUNTED DEVICES AS NEEDED TO PERFORM WORK. WHERE A CEILING REPLACEMENT IS NOT TO BE PERFORM, CONTRACTOR TO REINSTALL CEILING MATERIALS AND DEVICES FOLLOWING ABOVE-CEILING WORK. SEE ARCHITECTURAL PLANS.
- ALL EXISTING CONTROLS AND ZONE SENSORS ASSOCIATED WITH DEMOLISHED EQUIPMENT ARE TO BE DEMOLISHED AND BLANK WALL PLATE ARE TO BE PROVIDED WHERE ZONE SENSORS ARE REMOVED.
- ALL OPEN PIPING TERMINATIONS LEFT FOLLOWING PIPING DEMOLITION ARE TO BE VALVED AND CAPPED.
- ALL CORRIDOR WALL PENETRATIONS LEFT FOLLOWING PIPING DEMOLITION ARE TO BE SEALED FOR SMOKE RATING.
- CONTRACTOR SHALL VERIFY ALL CONNECTED EQUIPMENT PRIOR TO PROCEEDING WITH PIPE DEMOLITION AND REPORT INCONSISTENCIES TO ENGINEER FOR DIRECTION.

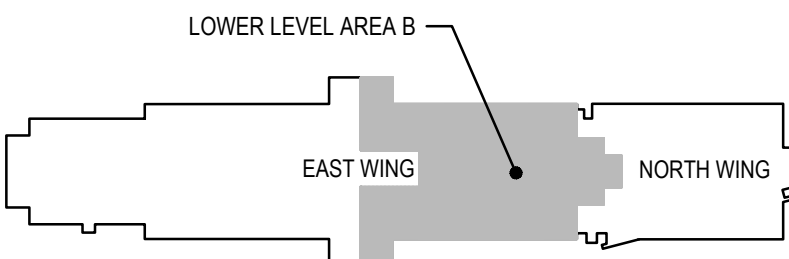


LOWER LEVEL DEMOLITION PLAN - AREA B

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

LOWER LEVEL KEY PLAN

SCALE: NTS



STUDIOJAED
ARCHITECTS & ENGINEERS
FACILITIES SOLUTIONS
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OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. COVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE
**LOWER LEVEL
DEMOLITION PLAN -
AREA B**

**BIDDING
DOCUMENTS**
FEBRUARY 14, 2023

DRAWN JRB	CHKD DLS	PROJECT NO. 19121
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SHEET NO.
HD100B

HYDRONIC KEY NOTES	
H-1	PROVIDE NEW PIPE HANGERS ON EXISTING DOMESTIC WATER PIPING AS REQUIRED BY STANDARD ASTM F 708; STANDARD PRACTICE FOR DESIGN AND INSTALLATION OF RIGID PIPE HANGERS.
H-2	NOT USED THIS SHEET.
H-3	NOT USED THIS SHEET.
H-4	NOT USED THIS SHEET.
H-5	NOT USED THIS SHEET.

- # GENERAL NOTES
1. NEW HYDRONIC PIPING LESS THAN 3/4" IS NOT PERMITTED.
 2. THE CONTRACTOR SHALL SURVEY THE PIPING LAYOUT FOLLOWING CEILING DEMOLITION AND NOTIFY ENGINEER OF DISCREPANCIES. AS-BUILT DRAWINGS SHALL INCLUDE ALL NEW AND EXISTING PIPING.
 3. AT LOCATIONS WHERE WORK IS REQUIRED ABOVE CEILING BUT CEILING REPLACEMENT WORK IS NOT INCLUDED IN THE SCOPE OF WORK, CONTRACTOR IS TO REMOVE AND REINSTALL CEILING MATERIALS AND ASSOCIATED CEILING-MOUNTED DEVICES AS REQUIRED TO FACILITATE WORK. SEE CEILING REPLACEMENT PLANS FOR COORDINATION.
 4. ALL WALL-MOUNTED SENSORS ARE TO BE MOUNTED AT 48" AFF.
 5. ALL NEW HVAC ZONES ARE TO BE PROVIDED WITH NEW ZONE TEMPERATURE SENSORS.



OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, DOVER, DELAWARE 19901

SHEET TITLE		
LOWER LEVEL NEW WORK PLAN - AREA A		
BIDDING DOCUMENTS		
FEBRUARY 14, 2023		
DRAWN JRB	CHKD DLS	PROJECT NO. 19121
SHEET NO.		
H100A		

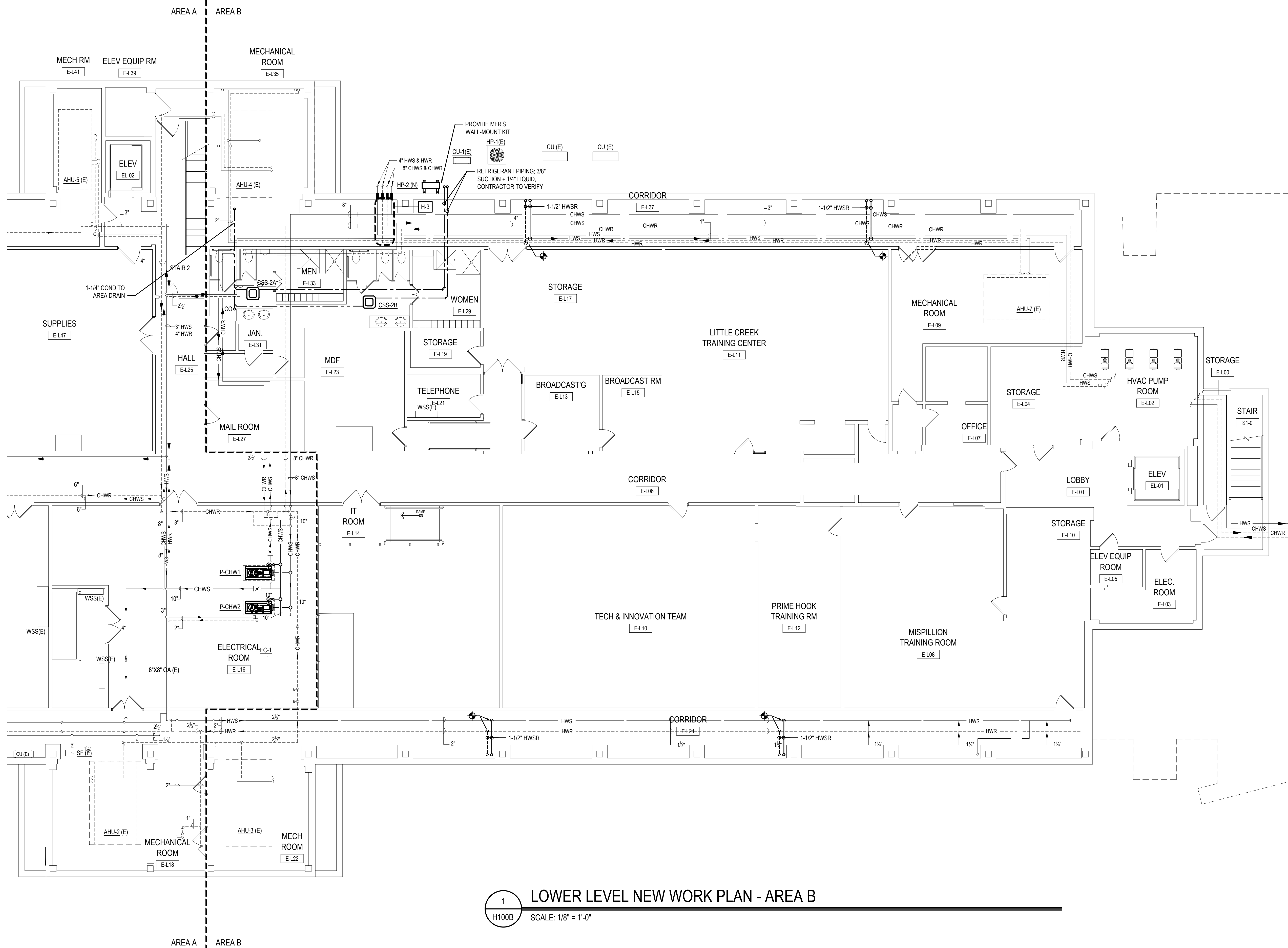
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HYDRONIC KEY NOTES

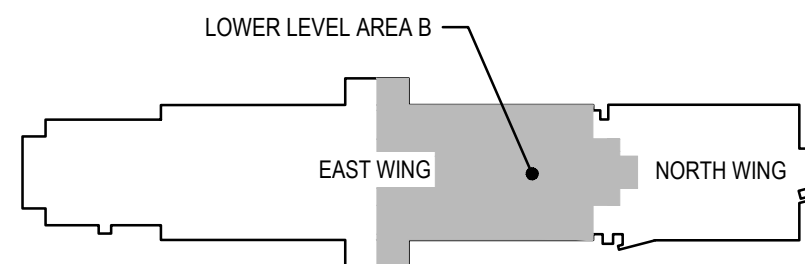
- H-1 NOT USED THIS SHEET.
- H-2 NOT USED THIS SHEET.
- H-3 NOT USED.
- H-4 NOT USED THIS SHEET.
- H-5 NOT USED THIS SHEET.

GENERAL NOTES

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- ALL WALL-MOUNTED SENSORS ARE TO BE MOUNTED AT 48" AFF.
- ALL NEW HVAC ZONES ARE TO BE PROVIDED WITH NEW ZONE TEMPERATURE SENSORS.



1 LOWER LEVEL NEW WORK PLAN - AREA B
H100B SCALE: 1/8" = 1'-0"



LOWER LEVEL KEY PLAN
SCALE: NTS

CONSULTANT

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DATE OF SIGNATURE:
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OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, COVER, DELAWARE 19901

PROJECT

REVISIONS

MARK	DESCRIPTION	DATE

SHEET TITLE

LOWER LEVEL NEW
WORK PLAN - AREA B

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

DRAWN	CHKD	PROJECT NO.
JRB	DLS	19121

SHEET NO.

H100B

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4/25/2023 10:14 AM

HYDRONIC KEY NOTES

H.1

NOT USED THIS SHEET.

H.2

NOT USED THIS SHEET.

H.3

NOT USED THIS SHEET.

H.4

CONNECT NEW CONDENSATE DRAIN TO EXISTING 4" RAINWATER CONDUCTOR WITH 2" BACKWATER VALVE, J.R. SMITH SERIES 7080 OR APPROVED EQUAL.

H.5

NOT USED THIS SHEET.

GENERAL NOTES

1.

NEW HYDRONIC PIPING LESS THAN 3/4" IS NOT PERMITTED.

2.

THE CONTRACTOR SHALL SURVEY THE PIPING LAYOUT FOLLOWING CEILING DEMOLITION AND NOTIFY ENGINEER OF DISCREPANCIES. AS-BUILT DRAWINGS SHALL INCLUDE ALL NEW AND EXISTING PIPING.

3.

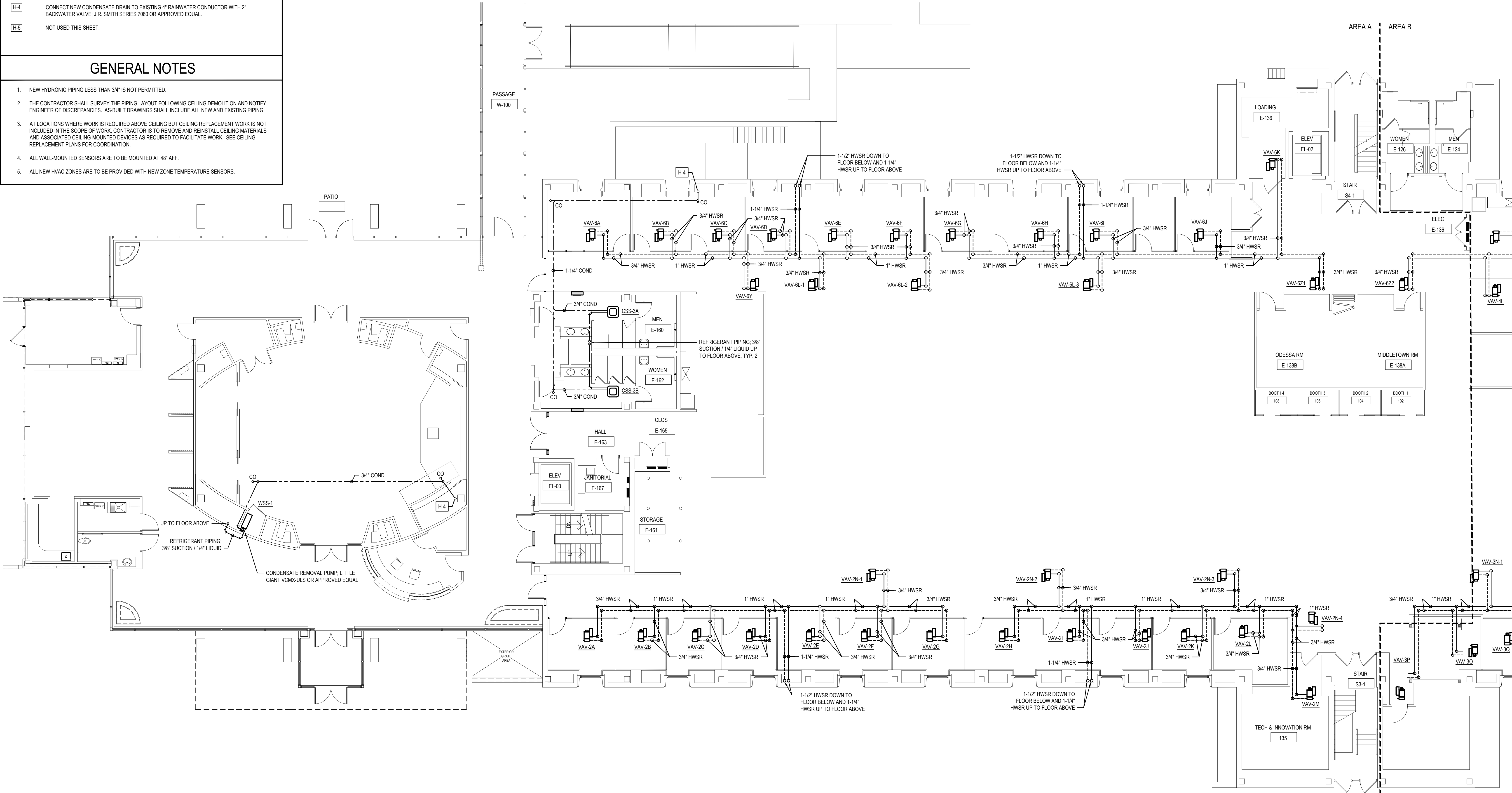
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4.

ALL WALL-MOUNTED SENSORS ARE TO BE MOUNTED AT 48" AFF.

5.

ALL NEW HVAC ZONES ARE TO BE PROVIDED WITH NEW ZONE TEMPERATURE SENSORS.

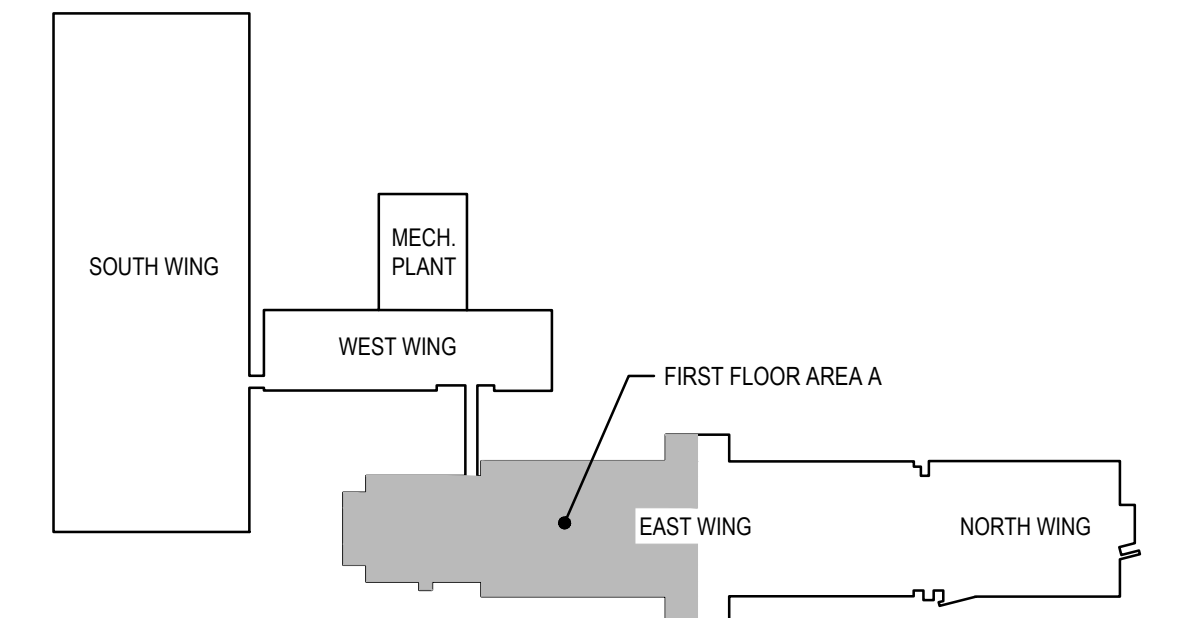


1

H101A

FIRST FLOOR NEW WORK PLAN - AREA A

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



FIRST FLOOR KEY PLAN

SCALE: NTS

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OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, COVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE

FIRST FLOOR NEW WORK PLAN - AREA A

BIDDING DOCUMENTS

FEBRUARY 14, 2023

DRAWN

CHKD

PROJECT NO.

JRB

DLS

19121

SHEET NO.

H101A

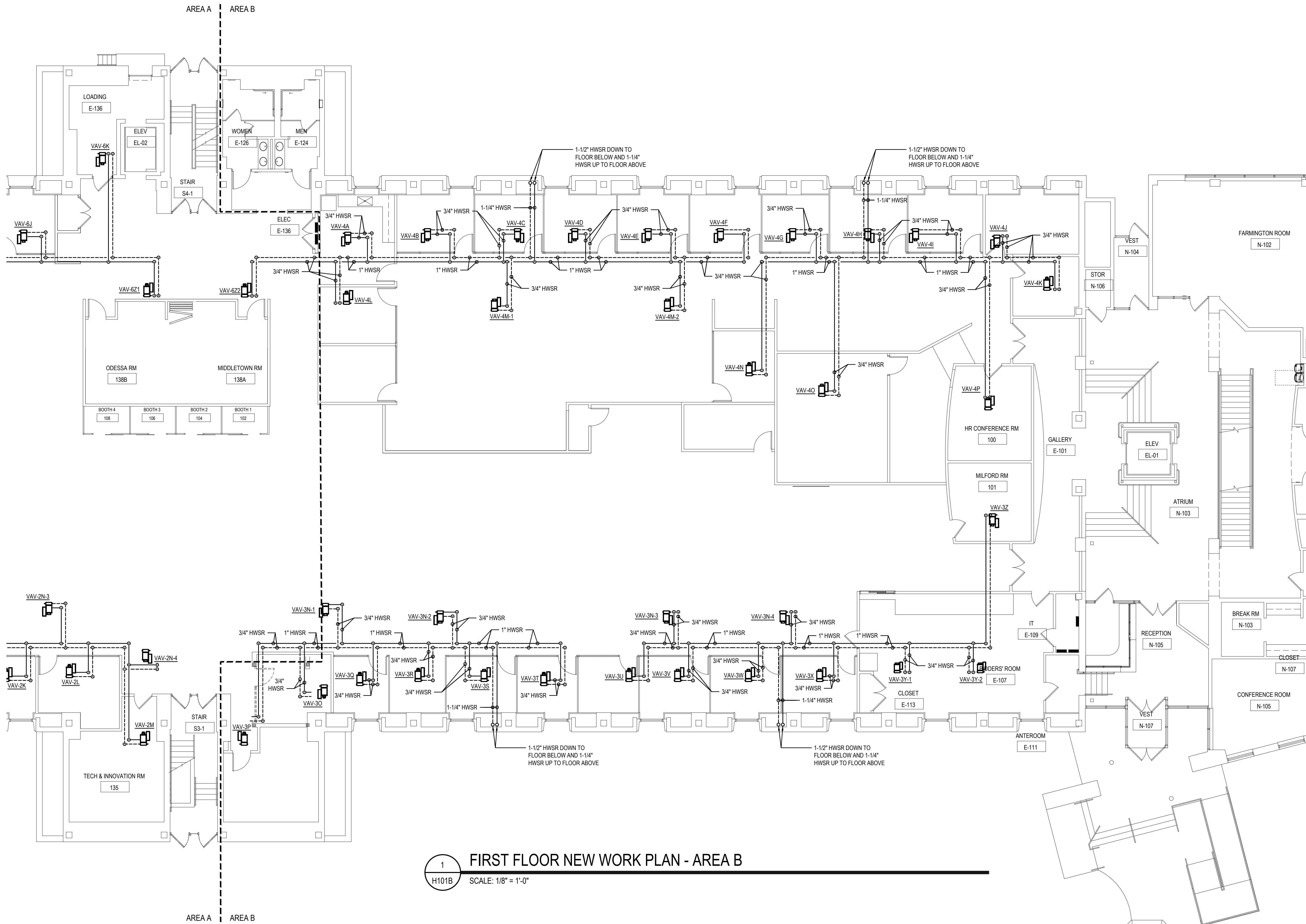
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HYDRONIC KEY NOTES

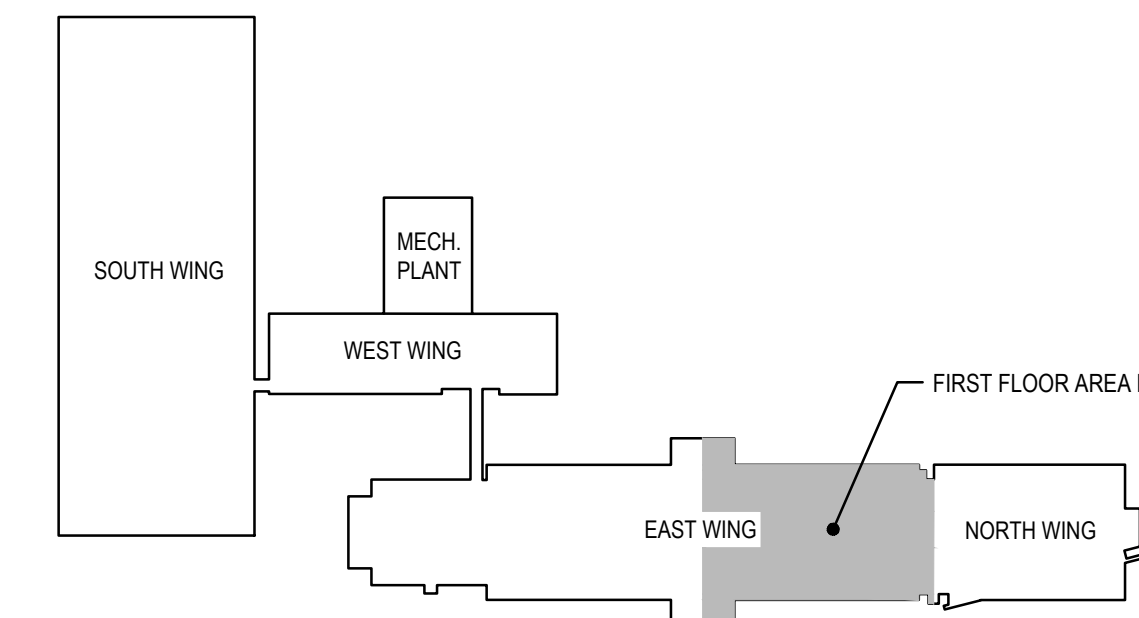
- [H-1] NOT USED THIS SHEET.
- [H-2] NOT USED THIS SHEET.
- [H-3] NOT USED THIS SHEET.
- [H-4] NOT USED THIS SHEET.
- [H-5] NOT USED THIS SHEET.

GENERAL NOTES

1. NEW HYDRONIC PIPING LESS THAN 3/4" IS NOT PERMITTED.
2. THE CONTRACTOR SHALL SURVEY THE PIPING LAYOUT FOLLOWING CEILING DEMOLITION AND NOTIFY ENGINEER OF DISCREPANCIES. AS-BUILT DRAWINGS SHALL INCLUDE ALL NEW AND EXISTING PIPING.
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4. ALL WALL-MOUNTED SENSORS ARE TO BE MOUNTED AT 48" AFF.
5. ALL NEW HVAC ZONES ARE TO BE PROVIDED WITH NEW ZONE TEMPERATURE SENSORS.



1 FIRST FLOOR NEW WORK PLAN - AREA B
H101B SCALE: 1/8" = 1'-0"



FIRST FLOOR KEY PLAN
SCALE: NTS

CONSULTANT

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OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DM PROJECT NO. MJ5511000003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. COVER, DELAWARE 19801

REVISIONS		
MARK	DESCRIPTION	DATE

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FIRST FLOOR NEW
WORK PLAN - AREA B

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

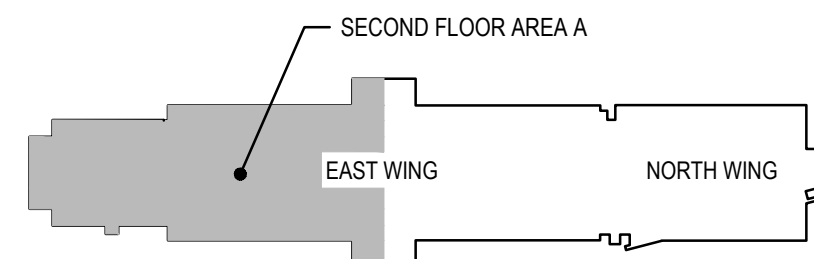
DRAWN	CHKD	PROJECT NO.
JRB	DLS	19121

SHEET NO.

H101B

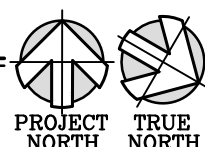
H-1	NOT USED THIS SHEET.
H-2	PROVIDE TYPICAL 3-WAY CONTROL VALVE DETAIL IN LIEU OF THE SPECIFIED TYPICAL 2-WAY CONTROL VALVE DETAIL.
H-3	NOT USED THIS SHEET.
H-4	CONNECT NEW CONDENSATE DRAIN TO EXISTING 4" RAINWATER CONDUCTOR WITH 2" BACKWATER VALVE. J.R. SMITH SERIES 7080 OR APPROVED EQUAL.
H-5	REMOVE FINNED TUBE ENCLOSURE. CLEAN FINS AND PROVIDE NEW ENCLOSURE TO CONCEAL PIPING. FINNED TUBE, AND HYDRONIC ACCESSORIES: RITTLING MODEL 1BGV, OR EQUAL. PROVIDE NEW TYPICAL 2-WAY CONTROL VALVE DETAIL.

1. NEW HYDROPIC PIPING LESS THAN 3/4" IS NOT PERMITTED.
2. THE CONTRACTOR SHALL SURVEY THE PIPING FOLLOWING CEILING DEMOLITION AND NOTIFY ENGINEER OF DISCREPANCIES. AS-BUILT DRAWINGS SHALL INCLUDE ALL NEW AND EXISTING PIPING.
3. AT LOCATIONS WHERE WORK IS REQUIRED ABOVE CEILING BUT CEILING REPLACEMENT WORK IS NOT INCLUDED IN THE SCOPE OF WORK, CONTRACTOR IS TO REMOVE AND REINSTALL CEILING MATERIALS AND ASSOCIATED CEILING MOUNTED DEVICES AS REQUIRED TO FACILITATE WORK. SEE CEILING REPLACEMENT PLANS FOR COORDINATION.
4. ALL WALL-MOUNTED SENSORS ARE TO BE MOUNTED AT 48" AFF.
5. ALL NEW HVAC ZONES ARE TO BE PROVIDED WITH NEW ZONE TEMPERATURE SENSORS.



SECOND FLOOR KEY PLAN

SCALE: NTS



H102A

4/25/2023 10:14 AM

THE RECIPIENT OF THESE PLANS IS HEREBY ADVISED THAT THE INFORMATION CONTAINED HEREIN IS FOR THE EXCLUSIVE USE OF THE CLIENT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF STUDIOJAED. THE RECIPIENT OF THESE PLANS IS HEREBY ADVISED THAT THE INFORMATION CONTAINED HEREIN IS FOR THE EXCLUSIVE USE OF THE CLIENT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF STUDIOJAED.

4/25/2023 10:14 AM

HYDRONIC KEY NOTES

H-1

NOT USED THIS SHEET.

H-2

PROVIDE TYPICAL 3-WAY CONTROL VALVE DETAIL IN LIEU OF THE SPECIFIED TYPICAL 2-WAY CONTROL VALVE DETAIL.

H-3

NOT USED THIS SHEET.

H-4

NOT USED THIS SHEET.

H-5

NOT USED THIS SHEET.

GENERAL NOTES

1.

NEW HYDRONIC PIPING LESS THAN 3/4" IS NOT PERMITTED.

2.

THE CONTRACTOR SHALL SURVEY THE PIPING LAYOUT FOLLOWING CEILING DEMOLITION AND NOTIFY ENGINEER OF DISCREPANCIES. AS-BUILT DRAWINGS SHALL INCLUDE ALL NEW AND EXISTING PIPING.

3.

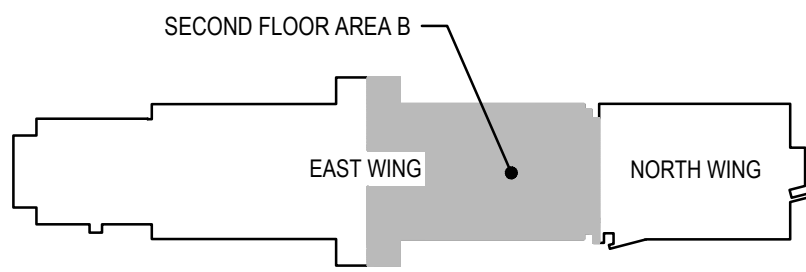
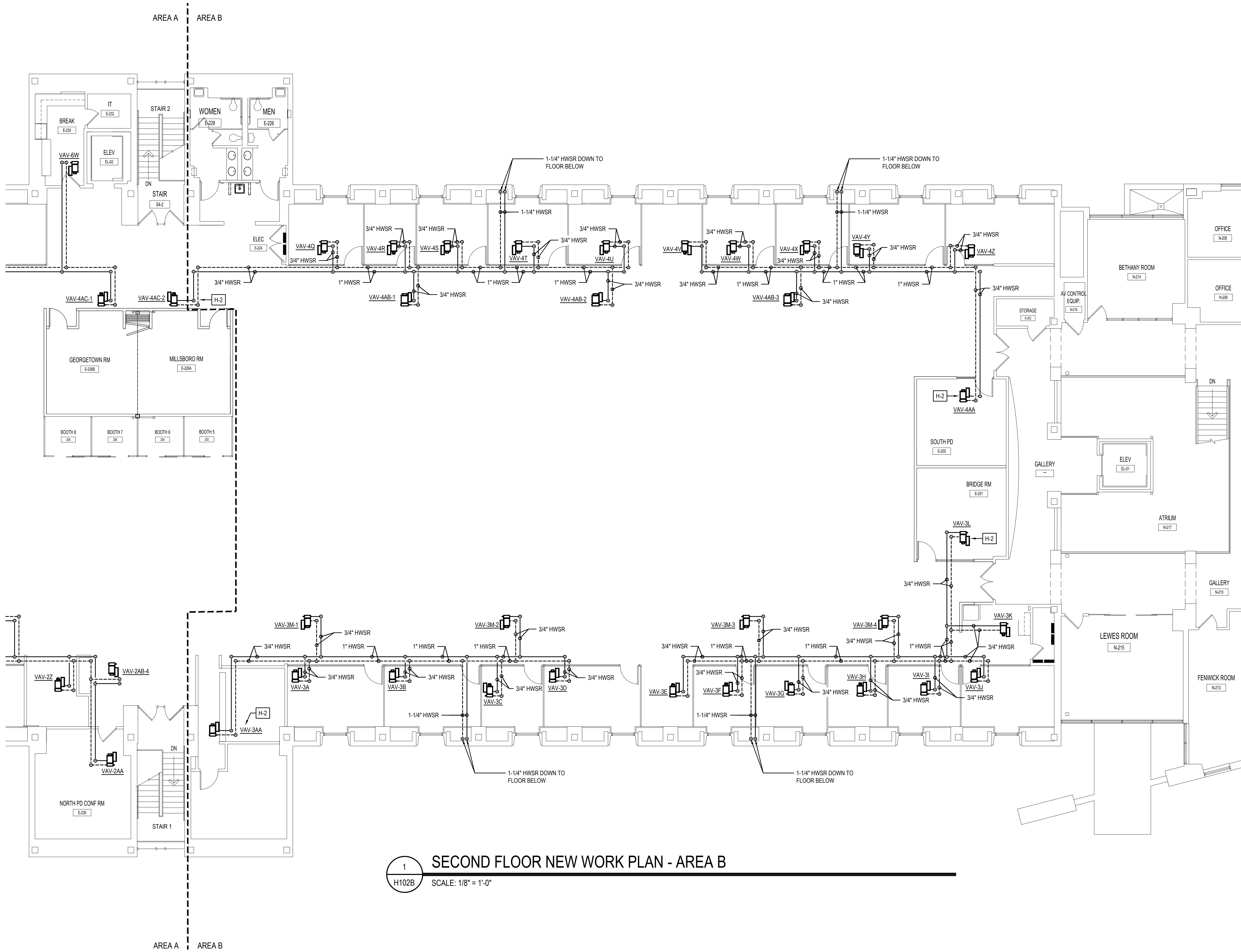
AT LOCATIONS WHERE WORK IS REQUIRED ABOVE CEILING BUT CEILING REPLACEMENT WORK IS NOT INCLUDED IN THE SCOPE OF WORK, CONTRACTOR IS TO REMOVE AND REINSTALL CEILING MATERIALS AND ASSOCIATED CEILING-MOUNTED DEVICES AS REQUIRED TO FACILITATE WORK. SEE CEILING REPLACEMENT PLANS FOR COORDINATION.

4.

ALL WALL-MOUNTED SENSORS ARE TO BE MOUNTED AT 48" AFF.

5.

ALL NEW HVAC ZONES ARE TO BE PROVIDED WITH NEW ZONE TEMPERATURE SENSORS.



SECOND FLOOR KEY PLAN
SCALE: NTS

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OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DFM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. COVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE

SECOND FLOOR NEW WORK PLAN - AREA B

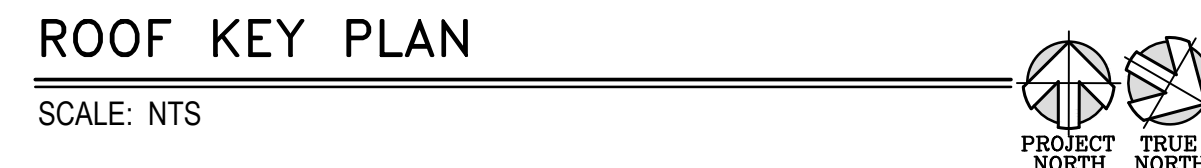
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FEBRUARY 14, 2023

DRAWN
JRB

CHKD
DLS

PROJECT NO.
19121

SHEET NO.
H102B



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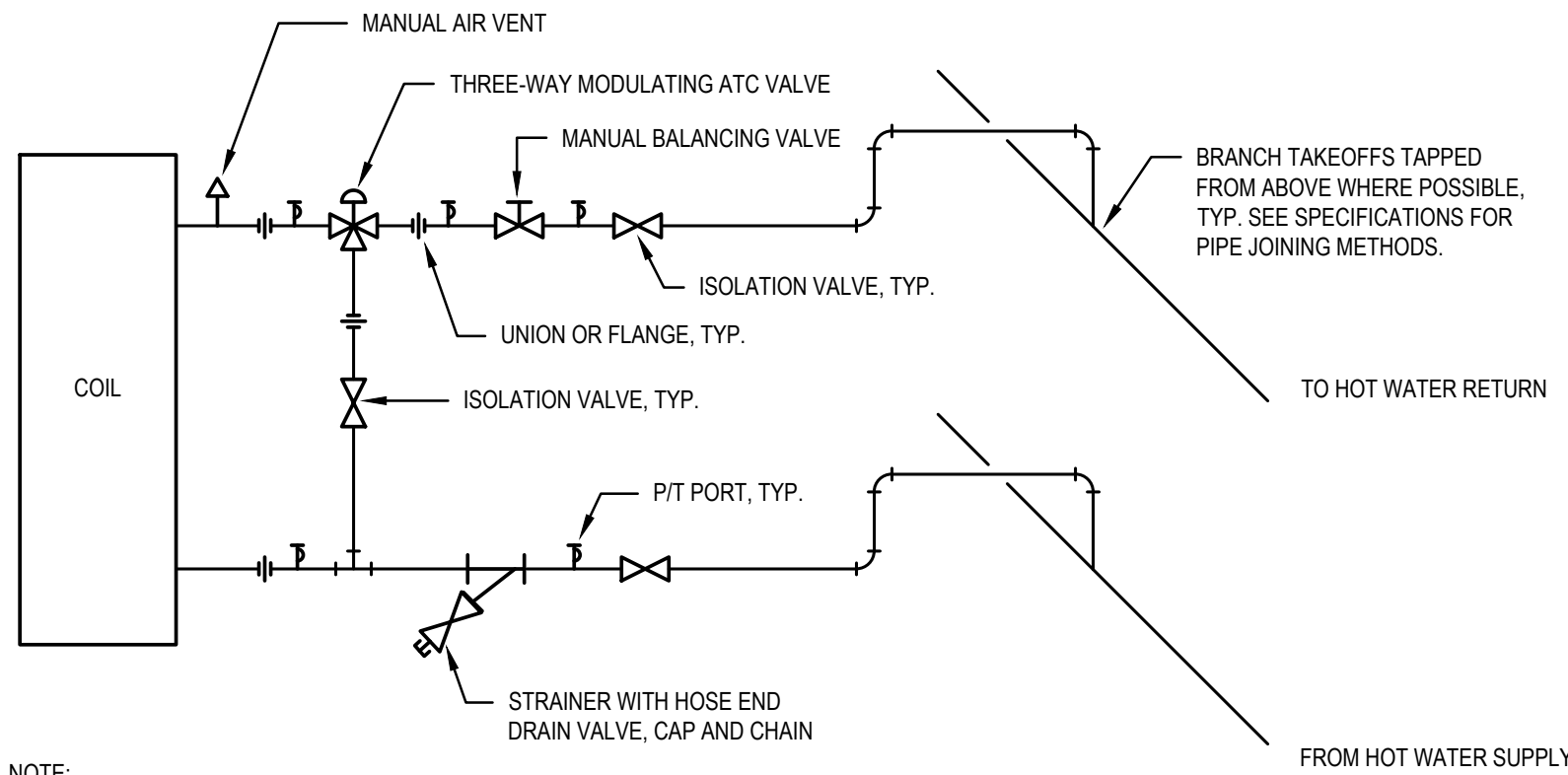
PROJECT

SHEET TITLE

DRAWN	CHK'D	PROJECT NO.
DLS	DLS	19121

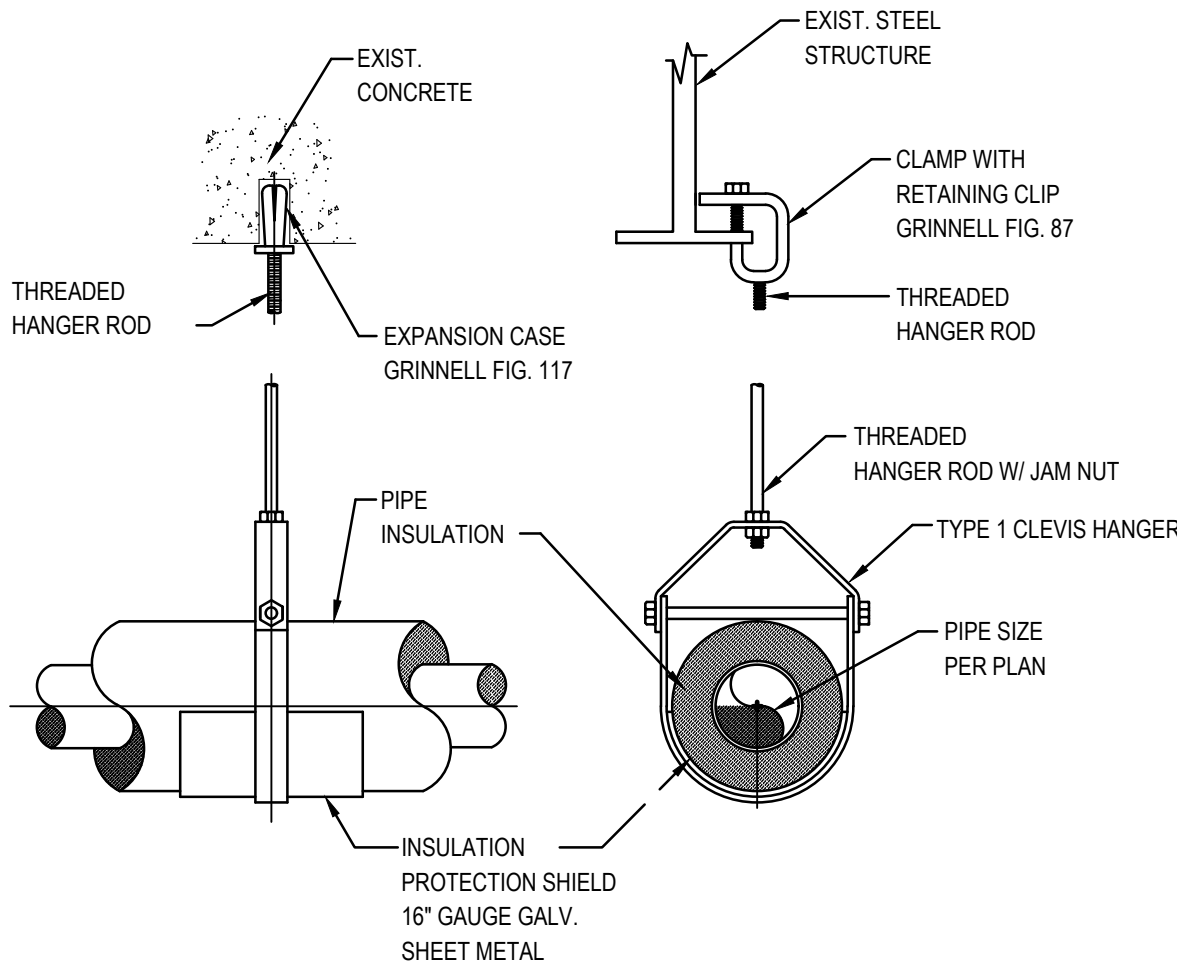
H-103

THE RECEIVER OF THESE PLANS BY ELECTRONIC TRANSMISSION OR BY ANY OTHER MEANS, HEREBY AGREES TO HOLD THE ARCHITECT HARMLESS FROM AND AGAINST ALL SUCH CLAIMS AND DAMAGES, INCLUDING REASONABLE ATTORNEY'S FEES AND COSTS, IN CONNECTION WITH THE RECEIPT OF THESE PLANS BY ELECTRONIC TRANSMISSION OR BY ANY OTHER MEANS. THE RECEIVER OF THESE PLANS BY ELECTRONIC TRANSMISSION OR BY ANY OTHER MEANS, HEREBY AGREES TO HOLD THE ARCHITECT HARMLESS FROM AND AGAINST ALL SUCH CLAIMS AND DAMAGES, INCLUDING REASONABLE ATTORNEY'S FEES AND COSTS, IN CONNECTION WITH THE RECEIPT OF THESE PLANS BY ELECTRONIC TRANSMISSION OR BY ANY OTHER MEANS. THE RECEIVER OF THESE PLANS BY ELECTRONIC TRANSMISSION OR BY ANY OTHER MEANS, HEREBY AGREES TO HOLD THE ARCHITECT HARMLESS FROM AND AGAINST ALL SUCH CLAIMS AND DAMAGES, INCLUDING REASONABLE ATTORNEY'S FEES AND COSTS, IN CONNECTION WITH THE RECEIPT OF THESE PLANS BY ELECTRONIC TRANSMISSION OR BY ANY OTHER MEANS.

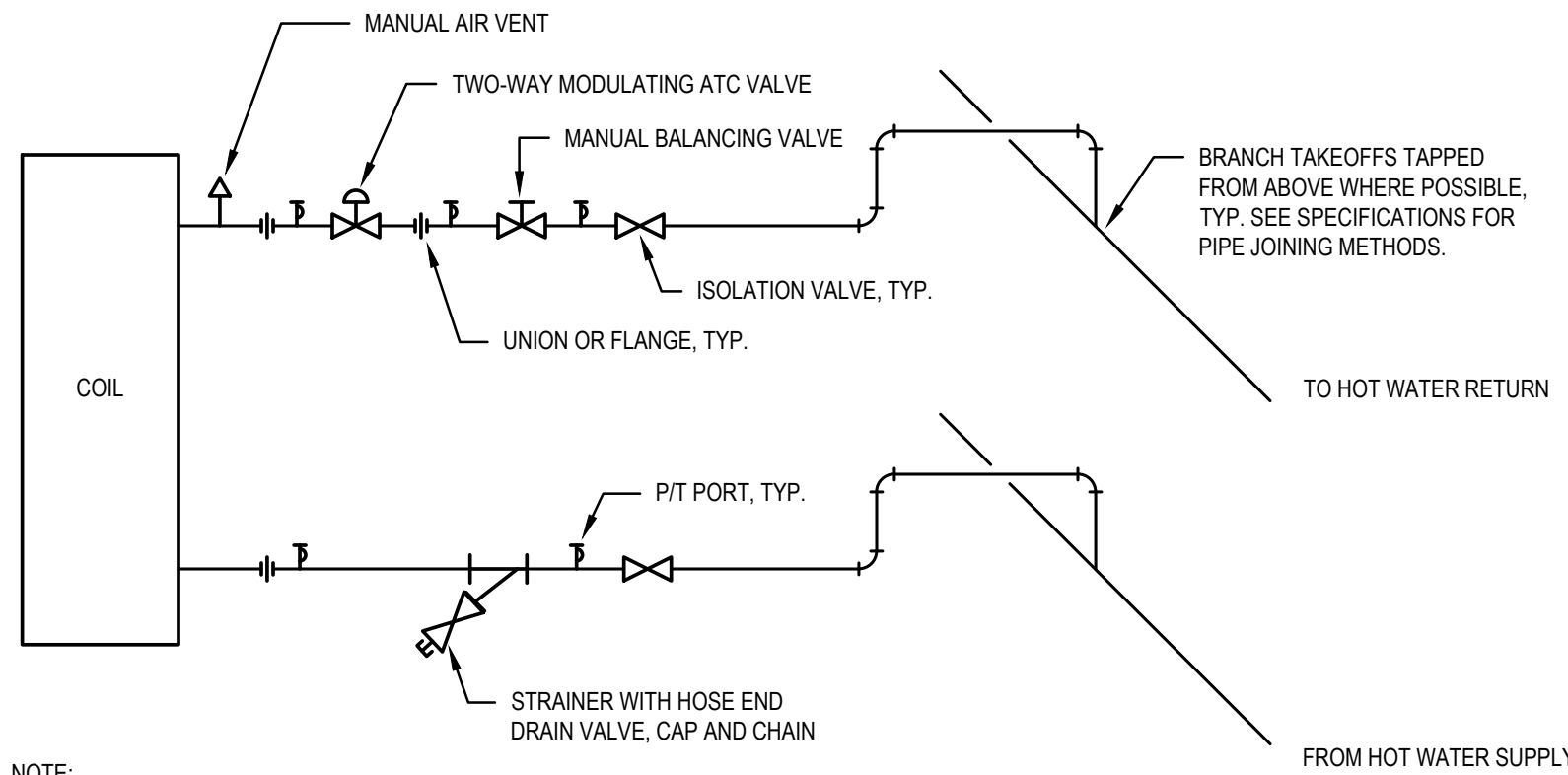


- NOTE:
1. PROVIDE FLOW LIMITING DEVICE PER UNIT FLOW REQUIREMENTS AS SHOWN IN EQUIPMENT SCHEDULES.
 2. THIS ARRANGEMENT IS TYPICAL WHERE NOTED.

1 TYPICAL 3-WAY CONTROL VALVE DETAIL
H-600 SCALE: NTS

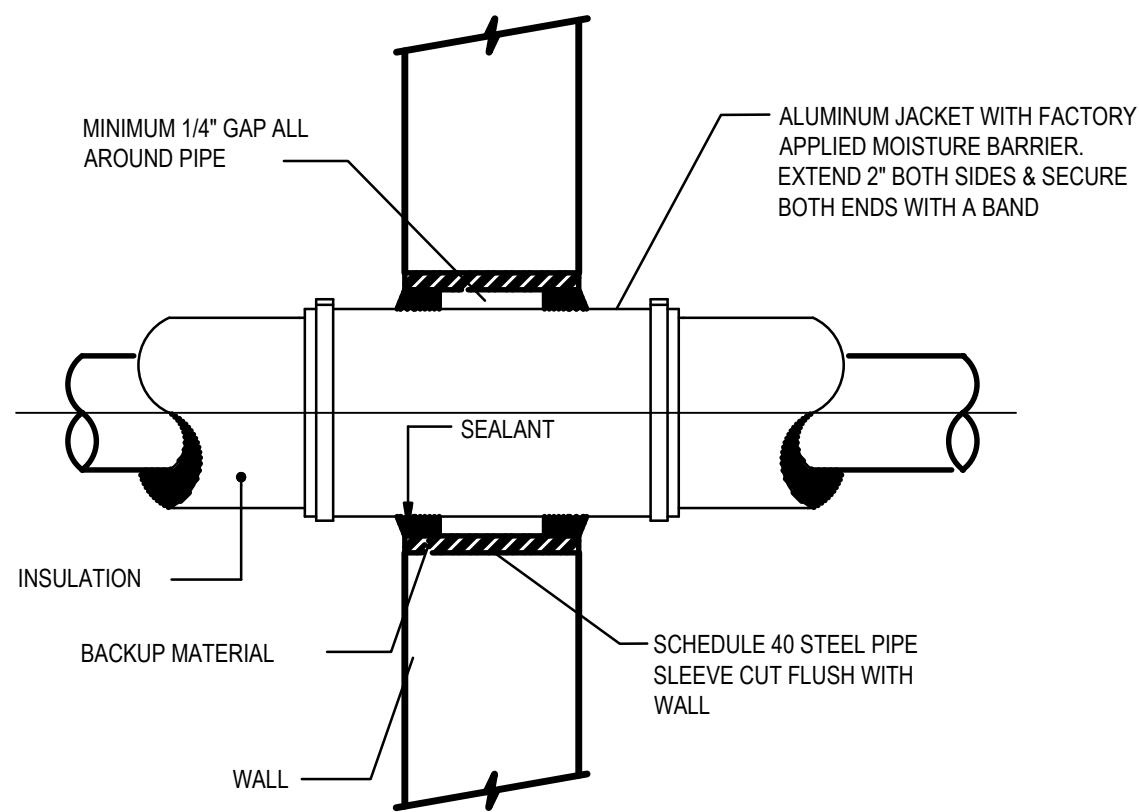


3 TYPICAL PIPE HANGER DETAIL
H-600 SCALE: NTS

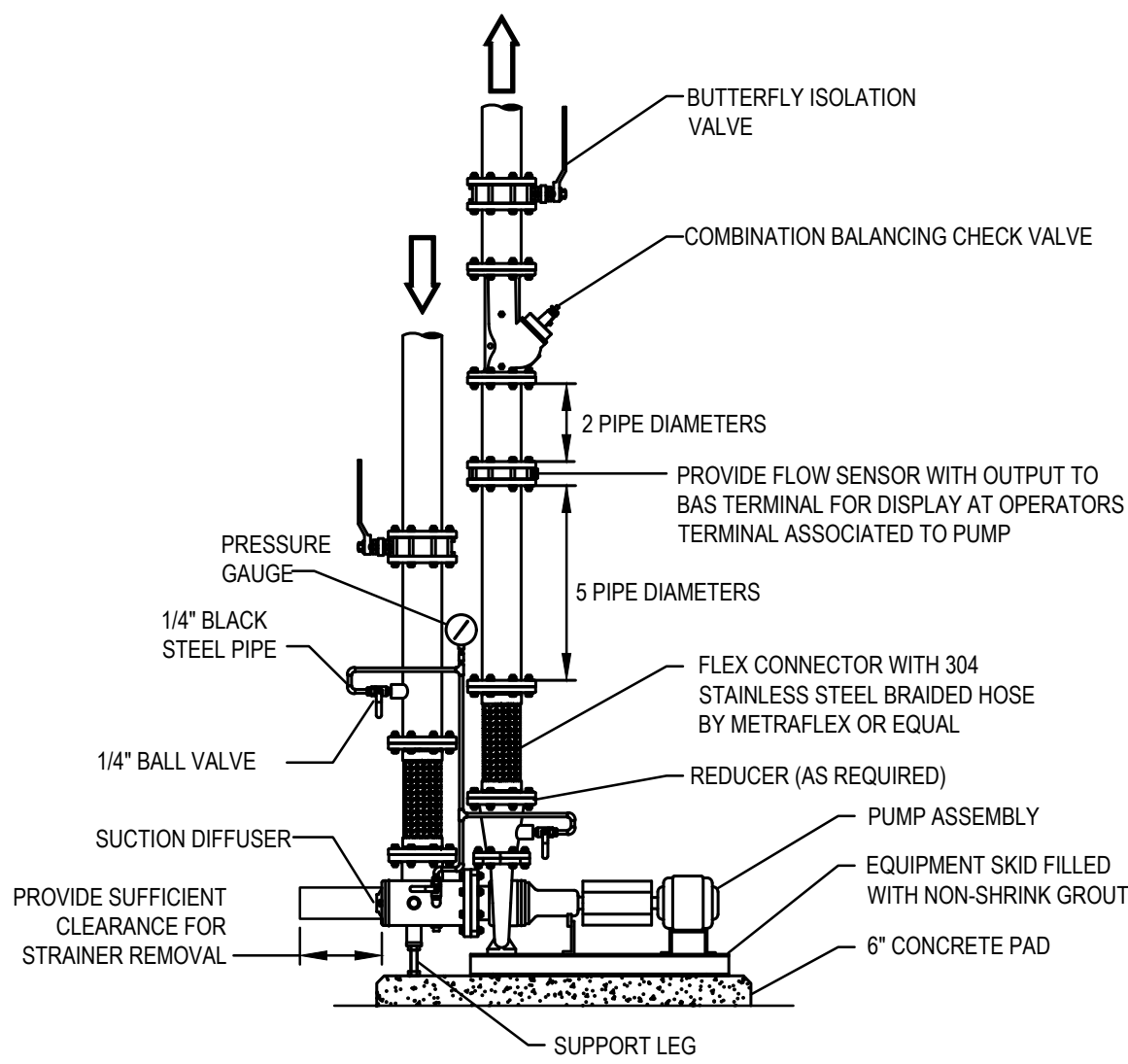


- NOTE:
1. PROVIDE FLOW LIMITING DEVICE PER UNIT FLOW REQUIREMENTS AS SHOWN IN EQUIPMENT SCHEDULES.
 2. PROVIDE THIS ARRANGEMENT FOR ALL HOT AND CHILLED WATER COILS EXCEPT WHERE NOTED

2 TYPICAL 2-WAY CONTROL VALVE DETAIL
H-600 SCALE: NTS



4 TYPICAL PIPE PENETRATION DETAIL
H-600 SCALE: NTS



- INSTALLATION NOTES:
1. PROVIDE SEPARATE ISOLATION VALVE AND TRIPLE DUTY VALVE ON PUMP DISCHARGE.
 2. PROVIDE CIRCUIT FLOW SENSOR WHERE INDICATED.
 3. PROVIDE SINGLE PRESSURE GAUGE AND MANIFOLD PIPING. PIPING SHALL BE MINIMUM 1/4" BLACK STEEL. PROVIDE (1) ADDITIONAL SPARE GAUGE FOR EACH PUMP INSTALLATION. USE FACTORY PROVIDED PORTS OR WELD-O-LET CONNECTIONS ON PIPING.

5 TYPICAL BASE-MOUNTED PUMP DETAIL
H-600 SCALE: NTS



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EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, COVER, DELAWARE 19901

PROJECT

REVISIONS

MARK	DESCRIPTION	DATE

SHEET TITLE

TYPICAL DETAILS

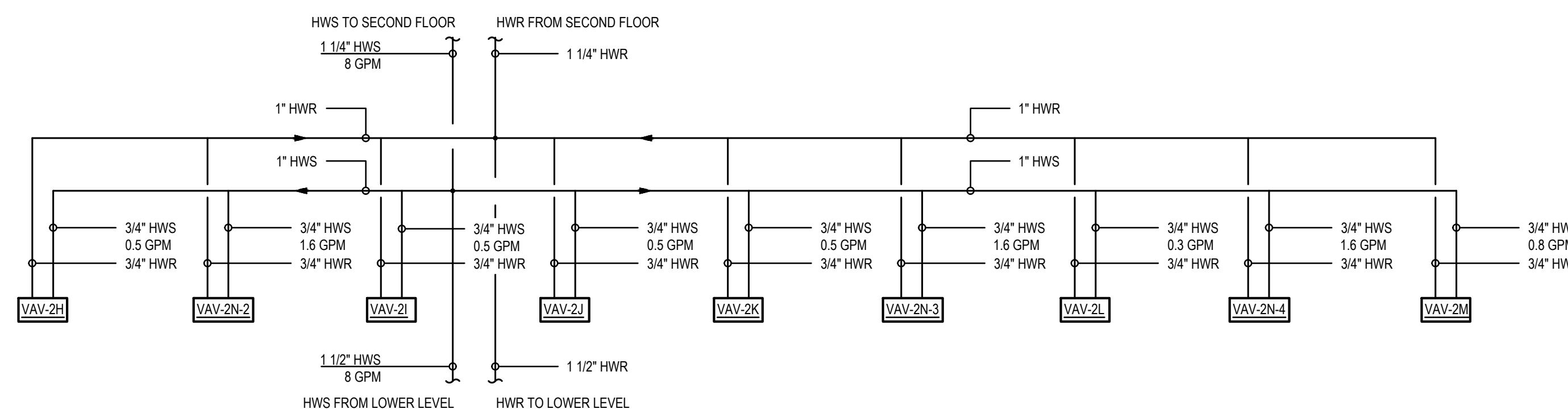
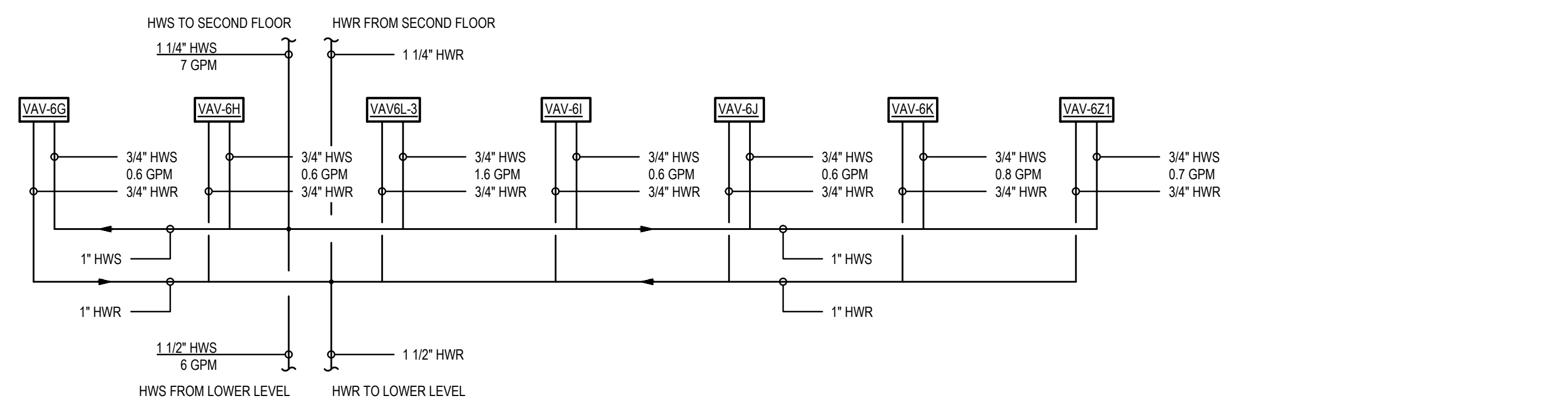
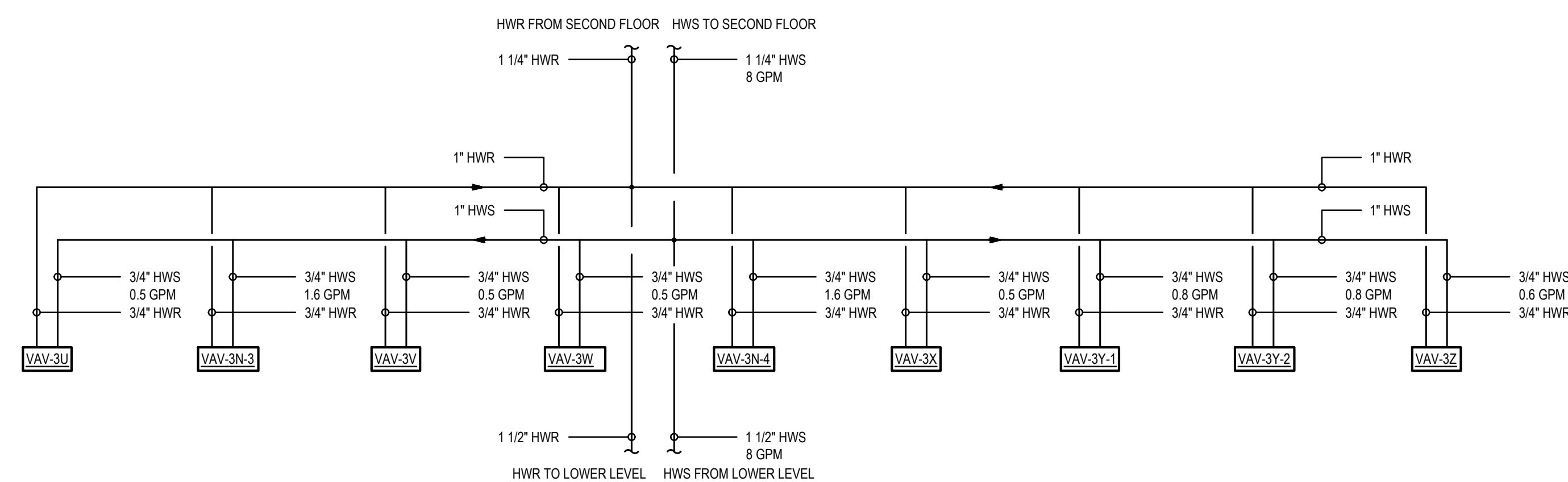
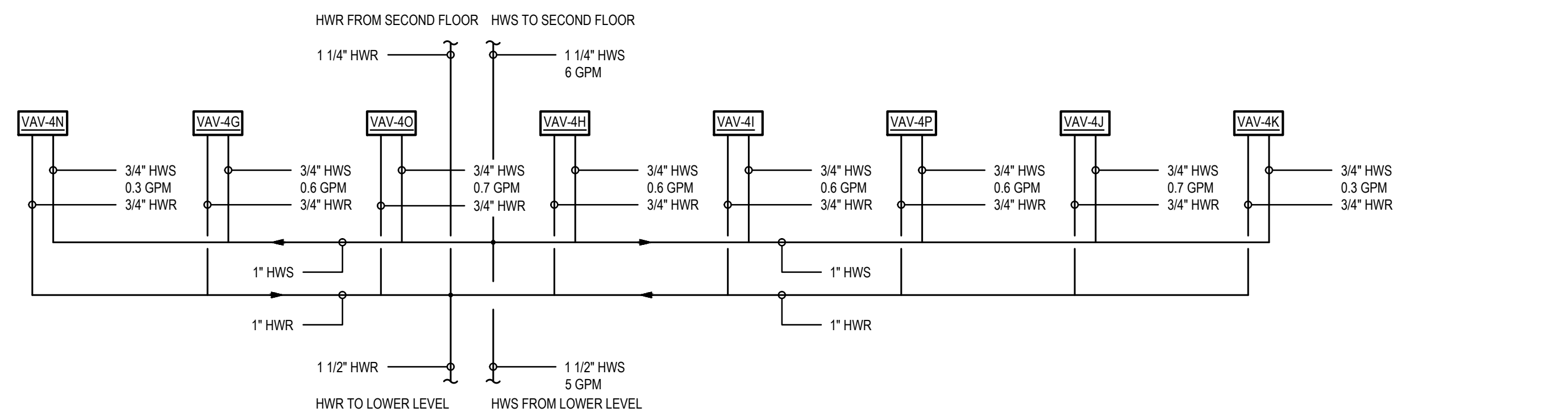
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JRB	DLS	19121

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H-600

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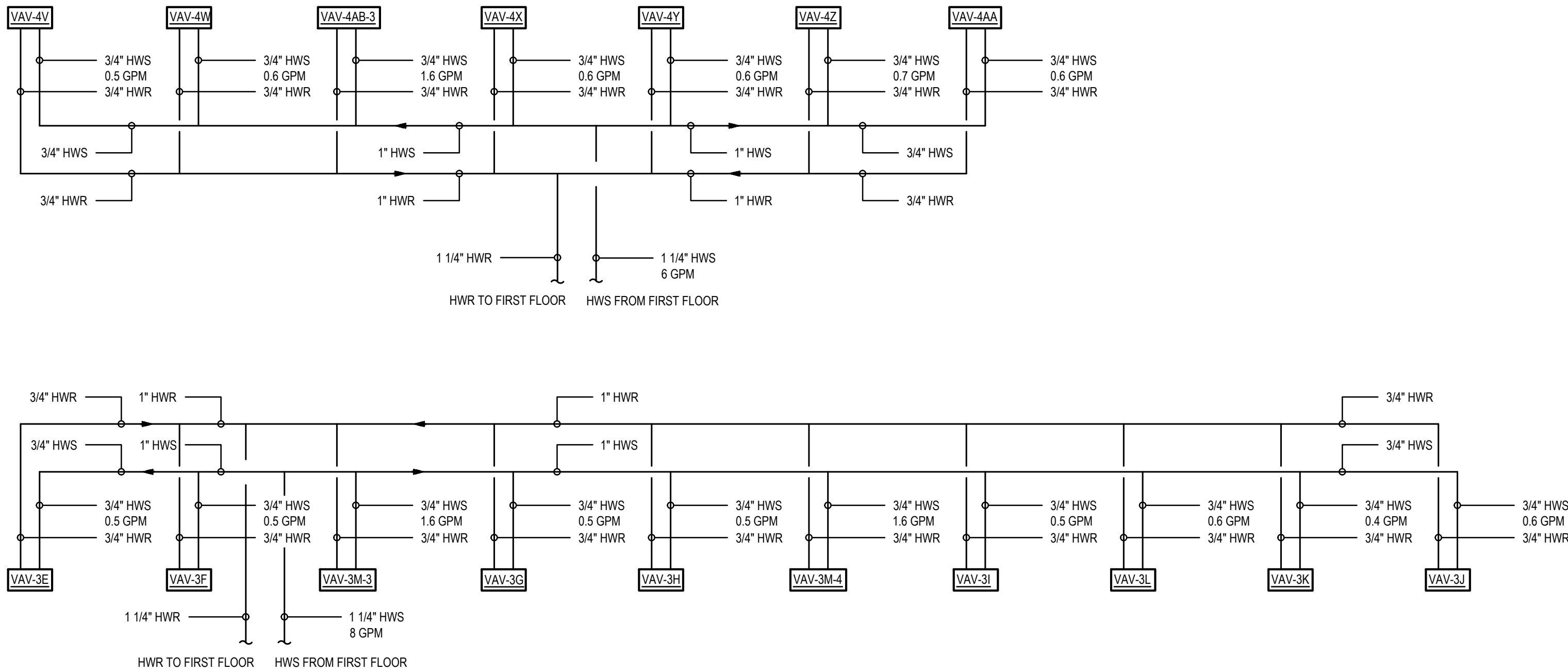
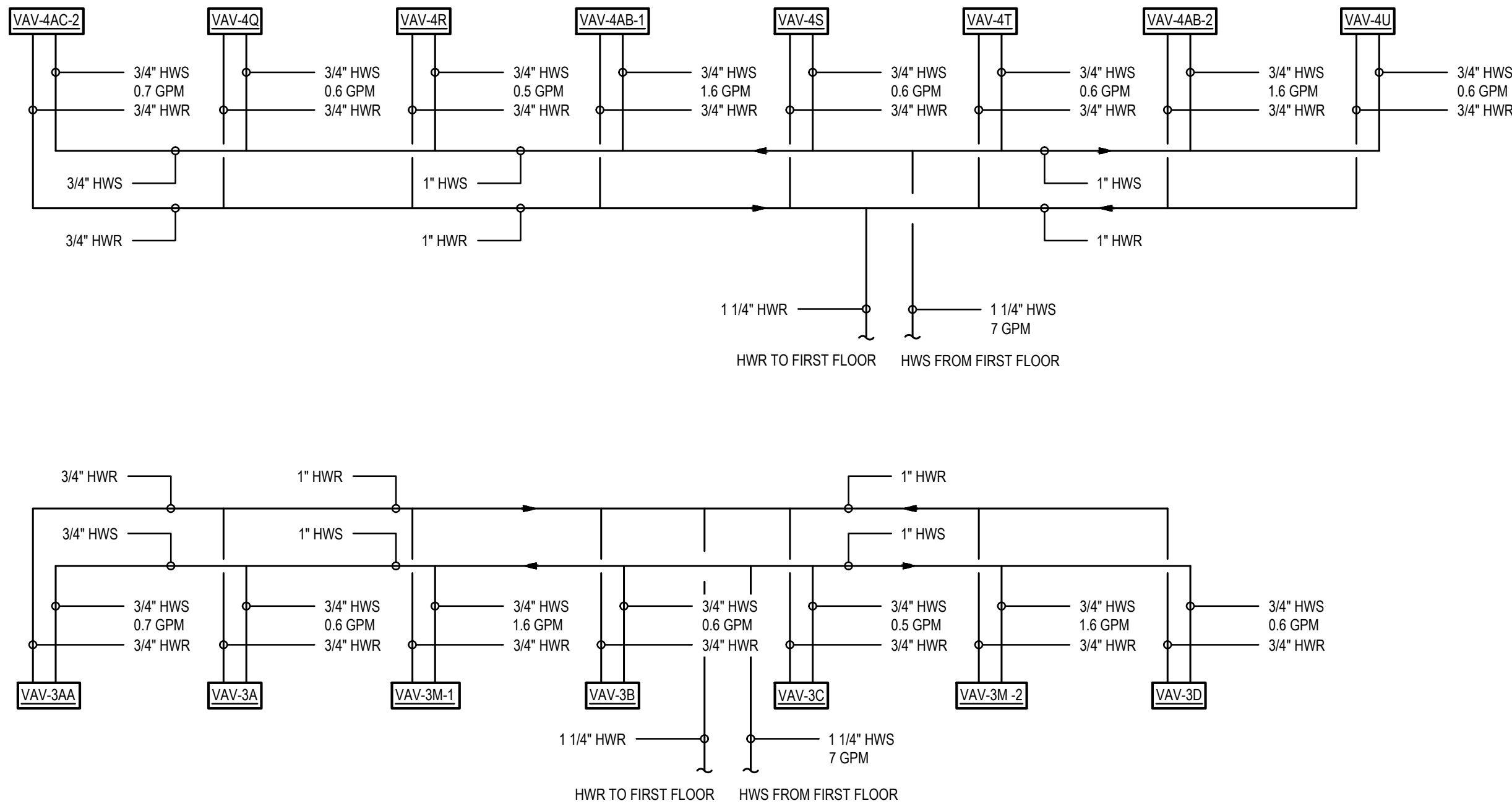
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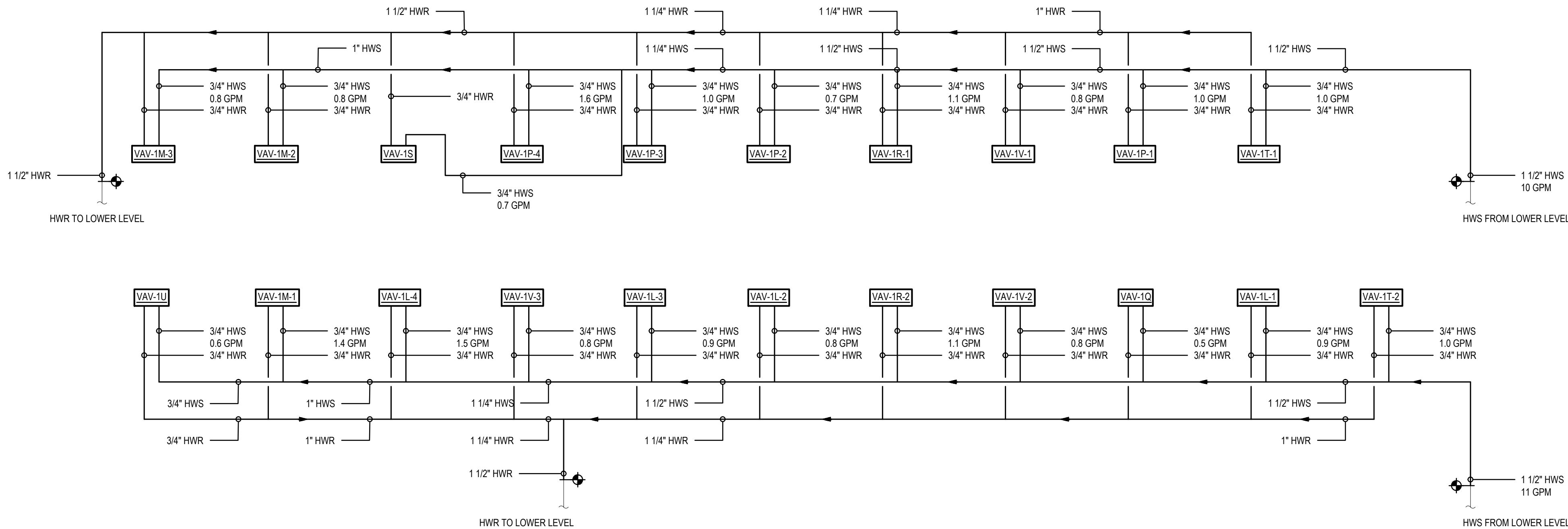
DRAWN	CHK'D	PROJECT NO.
TC	DLS	19121

H-701

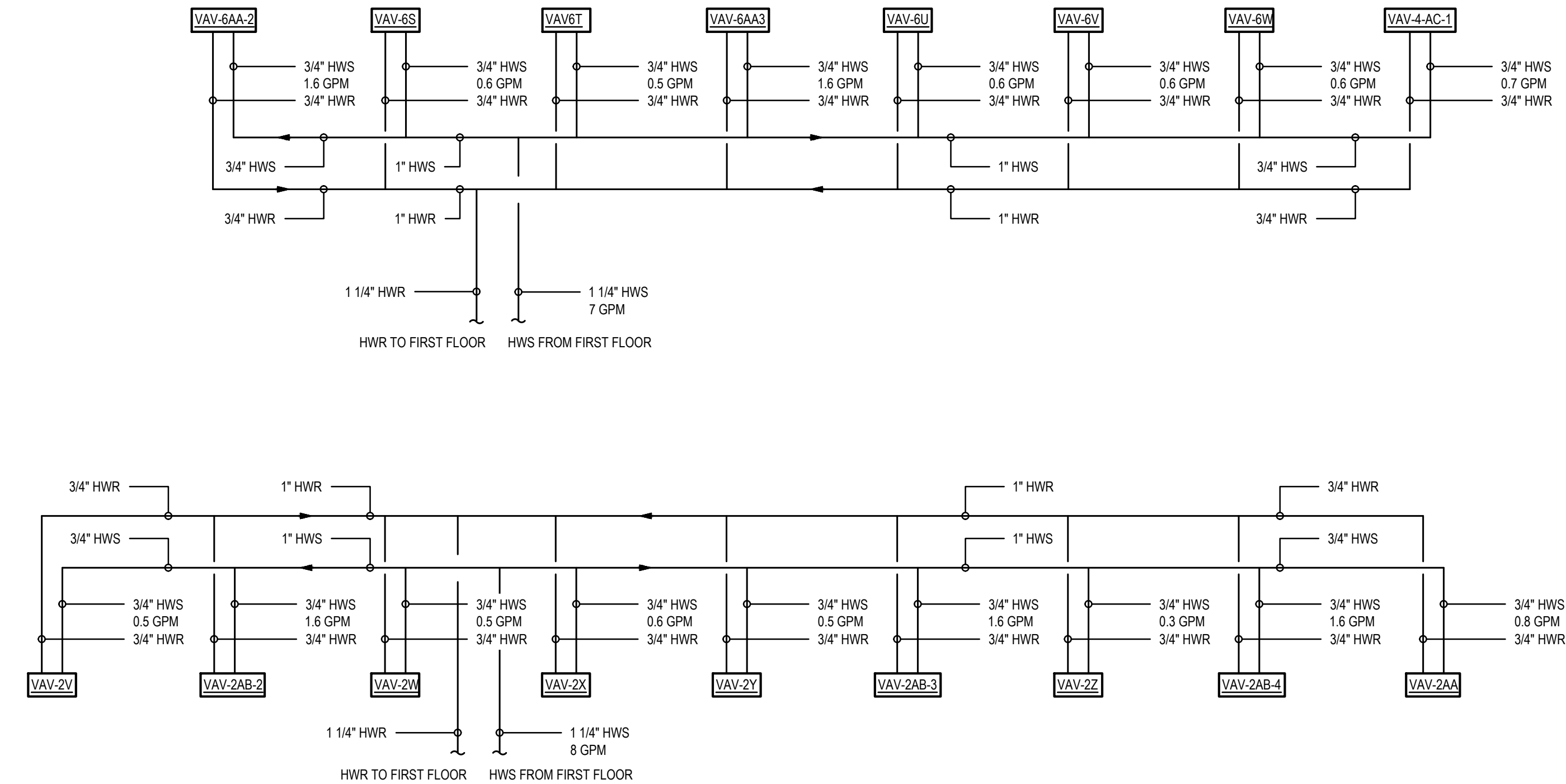
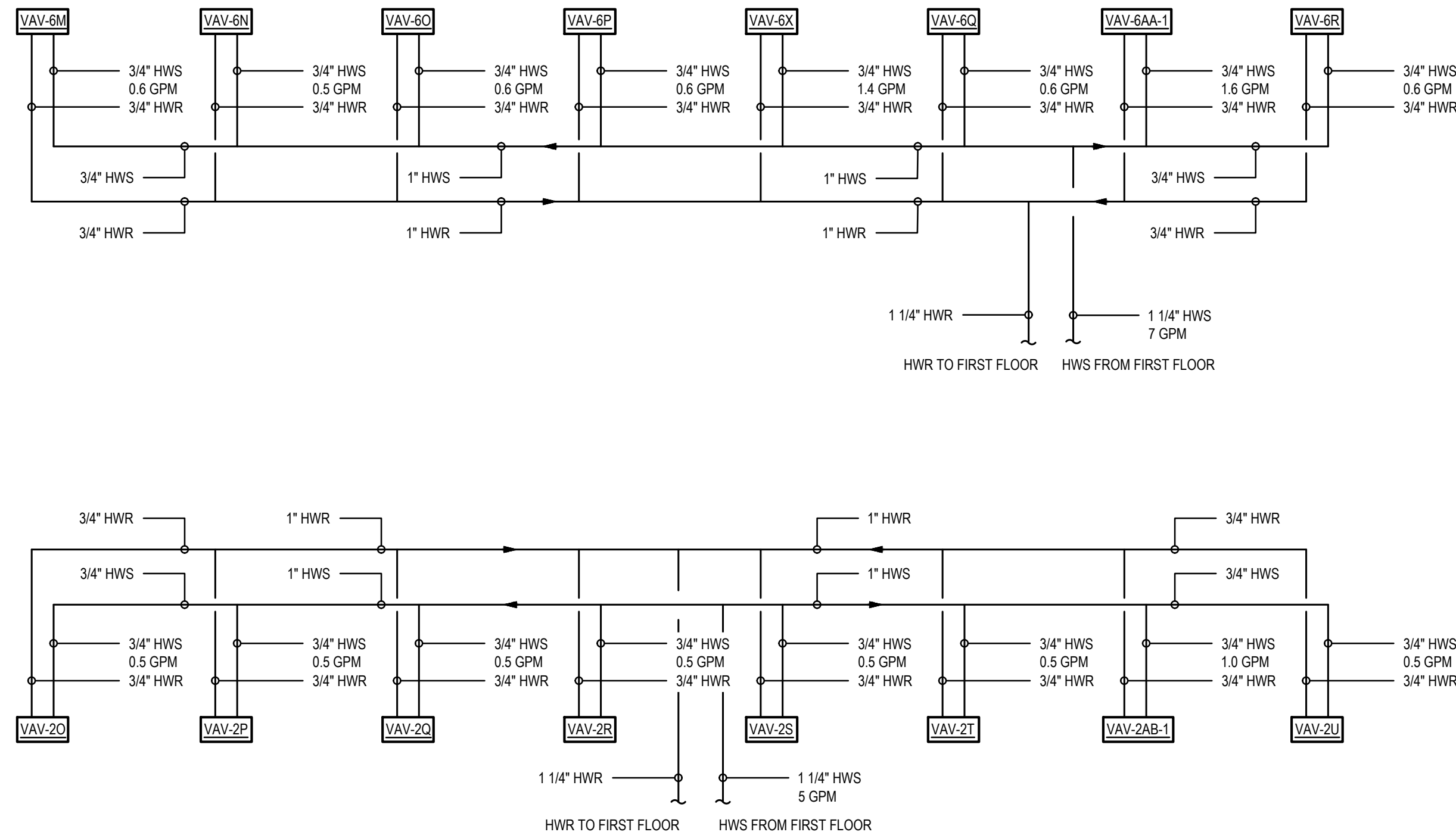
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3 SECOND FLOOR HOT WATER FLOW DIAGRAM - AREA B
H-702 SCALE: NTS



2 SECOND FLOOR HOT WATER FLOW DIAGRAM - AREA A - SOUTH WING
H-702 SCALE: NTS



1 SECOND FLOOR HOT WATER FLOW DIAGRAM - AREA A - EAST WING
H-702 SCALE: NTS

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EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. COVER, DELAWARE 19901

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MARK	DESCRIPTION	DATE

SHEET TITLE

SECOND FLOOR
HYDRONIC FLOW DIAGRAM

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

DRAWN TC	CHKD DLS	PROJECT NO. 19121
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SHEET NO.

H-702

(D) - DENOTES EQUIPMENT OR WIRING TO BE DEMOLISHED	KVA - KILLO VOLT AMPERE
(E) - DENOTES EXISTING EQUIPMENT OR WIRING TO REMAIN	LC - LOG CORPUS
(G) - DENOTES NEW EQUIPMENT OR WIRING	L- LONG TIME - INSTANTANEOUS
	LS - LONG TIME - SHORT TIME - INSTANTANEOUS
A - AMPS	MCB - MAIN CIRCUIT BREAKER
AFB - ABOVE FINISHED FLOOR	MD - MAIN DISTRIBUTION PANEL
AMP - AMPERE TRIP	MTS - MANUAL TRANSFER SWITCH
ATS - AUTOMATIC TRANSFER SWITCH	MEG - MEGA VOLT AMPERE SHORT CIRCUIT
BUDS - BUILDING	OC - CENTER
C - CONDUIT	PH - PHASE
CB - CIRCUIT BREAKER	PO - ONK OFF PROTECTION
ENC - ENCLOSURE	SPD - SURGE PROTECTIVE DEVICE
FL - FIRE ALARM	SW - SWITCH
G - GROUND	SWBD - SWITCHBOARD
GE - GENERAL ELECTRIC	UG - UNDERGROUND
KV - KILO AMPERE	V - VOLTS
KV - KILO VOLT	W - WATTS OR WIRE
	Z - IMPEDANCE

	TWIST LOCK, GENERAL PURPOSE RECESSED SINGLE RECEPTACLE, CEILING MOUNTED - 20AMP, 125VOLTS, NEMA L5-20R. ELECTRICAL BOX TO BE 2-1/8" DEEP.
	GENERAL PURPOSE RECESSED SINGLE RECEPTACLE - 20AMP, 125VOLTS, NEMA5-20R. ELECTRICAL BOX TO BE 2-1/8" DEEP.
	GENERAL PURPOSE DUPLEX RECEPTACLE - 20AMP, 125VOLTS, NEMA5-20R. ELECTRICAL BOX TO BE 2-1/8" DEEP (MIN.)
	GENERAL PURPOSE QUADRIplex RECEPTACLE - 20AMP, 125VOLTS, NEMA5-20R. ELECTRICAL BOX TO BE 2-1/8" DEEP (MIN.)
	GENERAL PURPOSE GFCI RECEPTACLE (DUPLEX OR QUADRIplex) - 20AMP, 125VOLTS, NEMA5-20R. ELECTRICAL BOX TO BE 2-1/8" DEEP. OUTLETS INSTALL OUTDOORS OR ON ROOF SHALL HAVE DIECAST ALUMINUM BOX 2-1/8" DEEP (MIN.) AND WHILE IN USE COVER THOMAS&BETTS CK30V OR APPROVED EQUAL.
	JUNCTION BOX - FOR FUTURE ACCESS CONTROL, HARDWARE
	FRACTIONAL HORSEPOWER MOTOR STARTER WITH OVERLOAD IN NEMA 1 ENCLOSURE; SQD FGP2 OR APPROVED EQUAL FOR INDUORS, P2W20 FOR OUTDOORS WITH NEMA 4 ENCLOSURE
	FUSED DISCONNECT SWITCH-HEAVY DUTY, 3POLE WITH FUSE CLIPS SUITABLE FOR CLASS "R" FUSES, NEMA1 UNLESS NOTED. WP-WEATHER PROOF-NEMA9 ENCLOSURE, NON-INDICATOR; DIAPA - SWITCH SEIZURE FUSE SIZE), SQD CLASS 3110 OR EQUAL
	COMBINATION MAGNETIC STARTER, FUSIBLE DISCONNECT SWITCH TYPE, 3POLE, FULL VOLTAGE NON-REVERSIBLE TYPE, WITH FUSED CONTROL, TRANSFORMER, BI-METALLIC OVERLOAD RELAYS, ON/OFF PUSH BUTTONS OR HAND OR AUTO SELECTOR SWITCH, (110/0/110) V.C., AUXILIARY CONTROLS AND LED PILOT LIGHT, CLASS "R" FUSE CLIPS, NEMA1 ENCLOSURE UNLESS NOTED. SQD CLASS 8538 OR EQUAL. NEMA 1 - SIZE 1.
	VFD - VENDOR SUPPLIED - SEE ELECTRICAL GENERAL NOTE #31.
	CIRCUIT BREAKER
	MOTOR

	FIRE ALARM CONTROL PANEL
	VOICE EVACUATION CONTROL PANEL
OR	DETECTION DEVICE - SMOKE DETECTOR - DUCT DETECTOR (SUPPLIED AND INSTALLED BY MECHANICAL EQUIPMENT VENDOR, WIRED BY ELECTRICAL CONTRACTOR). SEE DUCT DETECTOR CONTROL WIRING DIAGRAM & DUCT DETECTOR CONTROL WIRING DETAIL ON SHEET E-500. ELECTRICAL CONTRACTOR TO PROVIDE EACH DUCT DETECTOR WITH A MONITORING MODULE, CONTROL RELAY, AND TEST SWITCH.
	CONTROL RELAY - PROVIDE LOW VOLTAGE WIRING TO FACP.
	DUCT DETECTOR REMOTE TEST SWITCH - SEE DUCT DETECTOR CONTROL WIRING DIAGRAM & DUCT DETECTOR CONTROL WIRING DETAIL ON SHEET E-500.

Wiring Devices HOMERUN PANEL DESIGNATION PLA-11 BRANCH CIRCUIT DESIGNATION OUTLETS TO BE MOUNTED AT STANDARD HEIGHT UNLESS OTHERWISE NOTED	Disconnects J 30A, WP 20A, RK1 DISCONNECT SIZE, WP- WEATHER PROOF FUSE SIZE, TYPE RK1
--	---

PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, ADDITIONAL DESIGN AND ALL INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM AS DETAILED ON PLANS TO THE SATISFACTION OF THE ENGINEER AND THE OWNER. COORDINATE ALL WORK WITH THE ENGINEER BEFORE THE START OF WORK.

2. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL MATERIAL, LABOR, AND ALL INCIDENTALS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY INDICATED OR NOT. ALL ERRORS, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR IMMEDIATELY AFTER THE BIDDING PROCESS. IF THE BID PRICE, NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE VISIT BY THE CONTRACTOR.

3. PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS, AND LAWS OF LOCAL, STATE, AND FEDERAL, GOVERNMENTS AND OTHER AUTHORITIES WITH THE FOLLOWING JURISDICTION: ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

4. MATERIAL AND EQUIPMENT SHALL BE NEW (UNLESS NOTED), UL, NEMA, ANSI, IEEE, ADA & CMB APPROVED FOR INTENDED PURPOSE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND LOCAL ELECTRICAL CODE.

5. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS, AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.

6. MAINTAIN RECORD DRAWINGS ON FILE. RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUIREMENTS FOR PAYMENT ARE SUBMITTED.

7. GUARANTEE WORK IN WRITING PER SPECIFICATIONS, REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER DURING THE GUARANTEE PERIOD. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER. SUBMIT GUARANTEE TO OWNER BEFORE FINAL PAYMENT.

8. COORDINATE ALL ELECTRICAL ITEMS WITH EXISTING FIELD CONDITIONS. LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE MINOR ADJUSTMENT IN THE FIELD TO SATISFY THE DESIGN INTENT.

9. DAMAGE TO EXISTING FACILITIES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

10. THE LOCATIONS ON THESE PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH ALL OTHER TRADES AND VERIFICATION OF EXISTING CONDITIONS. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW ALL REQUIRED OFFSETS AND DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING ASSOCIATED CONDITIONS AND CONDITIONS OF THE EXISTING SYSTEMS. COORDINATION WITH THE ENGINEER AND THE OWNER. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER TRADES DRAWINGS AND SPECIFICATIONS AND COORDINATING WITH ALL OTHER TRADES DURING BIDDING AND CONSTRUCTION. THE CONTRACTOR IS TO INCLUDE CIRCUIT LENGTHS OF WIRE AND CONDUIT REQUIRED TO INSTALL CONNECTED DEVICES AND EQUIPMENT SUCH AS PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, ETC. WITHIN 15 FEET OF THE LOCATION SHOWN.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUITY OF ALL POWER, CONTROL, FIRE ALARM, SECURITY SYSTEMS, AND COMMUNICATIONS FUNCTIONS TO ALL AREAS AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION.

12. REPAIR AND PATCH ANY DISTURBED AREAS TO MATCH ADJACENT CONSTRUCTION.

13. DISCONNECT AND MAKE SAFE ANY EQUIPMENT TO BE REMOVED BY OTHERS. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION.

14. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, THIS CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY AND ALL ELECTRICAL ITEMS IN PATH OF WORK, REINSTALL, AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADE'S WORK IN THAT AREA.

15. PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL FIELD VERIFY ALL BRANCH CIRCUITS AND MAINTAIN THOSE CIRCUITS THAT EXTEND OUTSIDE THE SCOPE OF WORK.

16. AFTER RENOVATING EXISTING ELECTRICAL WORK, THE CONTRACTOR SHALL ENSURE THAT ALL REMAINING AND NEW EQUIPMENT WILL OPERATE PROPERLY, INCLUDING BUT NOT LIMITED TO BACKFEEDING OF EXISTING POWER AND LIGHTING CIRCUITS. REFER TO SINGLE LINE DIAGRAM.

17. ALL ELECTRICAL WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED TO PREVENT ANY DAMAGE.

18. WHEN ELECTRICAL SYSTEMS PASS THROUGH RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, SYSTEMS SHALL BE SUITABLY PROTECTED TO PREVENT DAMAGE OR RELOCATION AND THE SYSTEMS RESTORED TO NORMAL OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER. RESTORE POWER TO EXISTING TO REMAIN EQUIPMENT IF INTERRUPTED BY DEMOLISHED CIRCUITS IN THE AREA.

19. CONTRACTOR SHALL SUBMIT FOR REVIEW, SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS TO USED ON THE PROJECT. SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER BEFORE PURCHASE OF MATERIALS.

20. ALL WIRING SHALL BE COPPER, 800V, 75/90° WITH FLAME-RETARDANT, HEAT AND MOISTURE RESISTANT INSULATION.

21. PERMANENTLY LABEL ALL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION. UPDATE OR REPLACE PANEL DIRECTORIES TO INCLUDE NEW CIRCUIT INFORMATION RESULTING FROM THIS PROJECT.

22. PROVIDE TEMPORARY POWER AND LIGHTING FOR ALL TRADES AS REQUIRED TO COMPLETE THE PROJECT. ALL TEMPORARY AND INTERIM EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO NFPA 710 AND NFPA 720.

23. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION THAT IS NOT SHOWN ON THE DRAWINGS.

24. OPENINGS IN EXISTING CONCRETE AND MASONRY WALLS AND FLOORS REQUIRED FOR CONDUIT INSTALLATION SHALL BE CORE DRILLED. ALL CORE DRILL SIZE SHALL BE 3" IN DIAMETER. CORE DRILL LOCATIONS SHALL BE SPACED A MINIMUM OF 6" FROM EACH OTHER MEASURED FROM THE OUTSIDE EDGE OF THE CORE DRILL. ALL CORE DRILL OPENINGS SHALL BE PROPERLY SEALED ACCORDING TO THEIR LOCATION AND APPLICATION.

25. ALL OUTLETS SHALL BE KEPT TO A MINIMUM. ALL WORK THAT REQUIRES A SUSTAINED EQUIPMENT OUTLET SHALL BE PERFORMED CONTINUOUSLY. AROUND THE CLOCK UNTIL WORK IS COMPLETED UNLESS NOTED OTHERWISE. COORDINATE OUTLETS WITH OWNER REPRESENTATIVE.

26. PROVIDE FOR EACH BRANCH CIRCUIT AND FEEDER CIRCUIT A DEDICATED EQUIPMENT GROUND WIRE. FOR SINGLE PHASE BRANCH CIRCUITS OF 120 V/1PH OR 277V/1 PH, PROVIDE DEDICATED HOT, DEDICATED NEUTRAL AND DEDICATED EQUIPMENT GROUND WIRE. FOR THREE PHASE BRANCH CIRCUITS, EACH GROUNDING CORD WIRE IS NOT PERMITTED. WIRING TO ALL PHASE EQUIPMENT OR OTHER TRADE EQUIPMENT SHALL BE IN CONDUIT. ALL EQUIPMENT AND FEEDER WIRING IN MECHANICAL ROOM/ELECTRICAL ROOM SHALL BE IN RIGID CONDUIT. USE OF MC CABLE IS LIMITED TO BRANCH CIRCUIT WIRING ABOVE RECESSED CEILING OR CONCEALED IN WALL. WIRING TO OUTLETS ON WALL SHALL BE PROVIDED IN EITHER EMT CONDUIT OR FLEXIBLE METAL CONDUIT.

27. PROVIDE IDENTIFICATION LABELS FOR ALL BRANCH CIRCUITS AND FEEDERS CIRCUITS AT JUNCTION BOXES, PANELBOARDS, TROUGHS, AND SPLICER BOXES.

28. PROVIDE UNSUPPLIED DEVICES FROM PANELBOARD OR SWITCHBOARD TO ALL EQUIPMENT, INCLUDING ALL 20 AMPERE, SINGLE POLE BRANCH CIRCUIT WIRING.

29. ALL WIRING DEVICES ARE TO BE RECESSED WHERE POSSIBLE. WHERE RECESSING IS NOT POSSIBLE, WIRING DEVICES ARE TO BE SURFACE MOUNTED WITH CIRCUIT WIRING ROUTED IN SURFACE MOUNTED CONDUIT PER SPECIFICATIONS.

30. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (2) #14-3/4" FROM EACH VENDOR SUPPLIED DUCT SMOKE DETECTOR TO FACE. INSTALLATION OF DETECTOR BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPLEMENTAL CONNECTIONS, EACH GROUNDING CORD (GEC) AND EACH EMERGENCY RECOVERY VENTILATOR (ERV) WILL HAVE (1) SUPPLY DUCT SMOKE DETECTOR AND (1) RETURN DUCT SMOKE DETECTOR.

31. VFD CABLE SHALL BE LISTED AS TYPE MC-MCML (K90H2) OR APPROVED EQUIV. 3C VFD CABLE SHALL BE RATED FOR 2000V MARINE CABLE AND UL UNCLAS TYPE MC-MCML PER UL2256-23896. VFD CABLE SHALL HAVE UNCOATED SPOUT COVER STRANDED CONDUCTORS RATED FOR 90 DEG CENTIGRADE WET OR DRY. CROSS LINK POLYETHYLENE WITH HIGH DIELECTRIC STRENGTH COLOR CODED INSULATION, AND THREE BARE SPOUT STRANDED GROUND CONDUCTORS WITH NON-HYDROSCOPIC FILLER AND BINDER TYPE. SHEATH SHALL BE CLOSE FITTING, IMPERVIOUS, CONTINUOUS WELDED CORRUGATED ALUMINUM CL-X PER UL1569. SHEATH SHALL BE PROTECTED WITH LOW TEMPERATURE BLACK PVC JACKET. CONTRACTOR SHALL PROVIDE PROPER FIXTURES FOR INSTALLATION OF VFD CABLE.

32. ALL CONDUIT PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PATCHED AND SEALED WITH FIRE RATED FOM SEALANT OR EQUIV.

33. PROVIDE INSULATING BUSHINGS ON CONDUIT THREADS OR CONNECTORS WHERE RACEWAYS WITH CONDUITS OR MC CABLE ENTER A BOX OR ENCLOSURE. THIS BUSHING SHALL BE INSTALLED ON ALL CABLES AND CONDUITS.

34. PROVIDE FIRE ALARM RATED MC CABLE FOR CONNECTIONS BETWEEN FIRE ALARM DEVICES. MC CABLE SHALL RUN CONCEALED ABOVE CEILINGS AND IN DRYWALL, WHERE EXPOSED, PROVIDE, BUT, NO EXPOSED MC CABLE IS PERMITTED.

(A) DENOTES NEW EQUIPMENT OR WIRING.
(B) DENOTES EXISTING EQUIPMENT OR WIRING TO REMAIN.
(C) DENOTES EQUIPMENT OR WIRING TO BE DEMOLISHED.

PROVIDE NEW FIRE ALARM SYSTEM DEVICES AND CONNECT TO EXISTING FIRE ALARM SYSTEM (LOCATED IN STORAGE RM E-1000). ALL NEW DEVICES AND WIRING SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE REQUIRED TESTING AND INSPECTION AS REQUIRED BY STATE OF DELAWARE FIRE MARSHALL'S OFFICE.

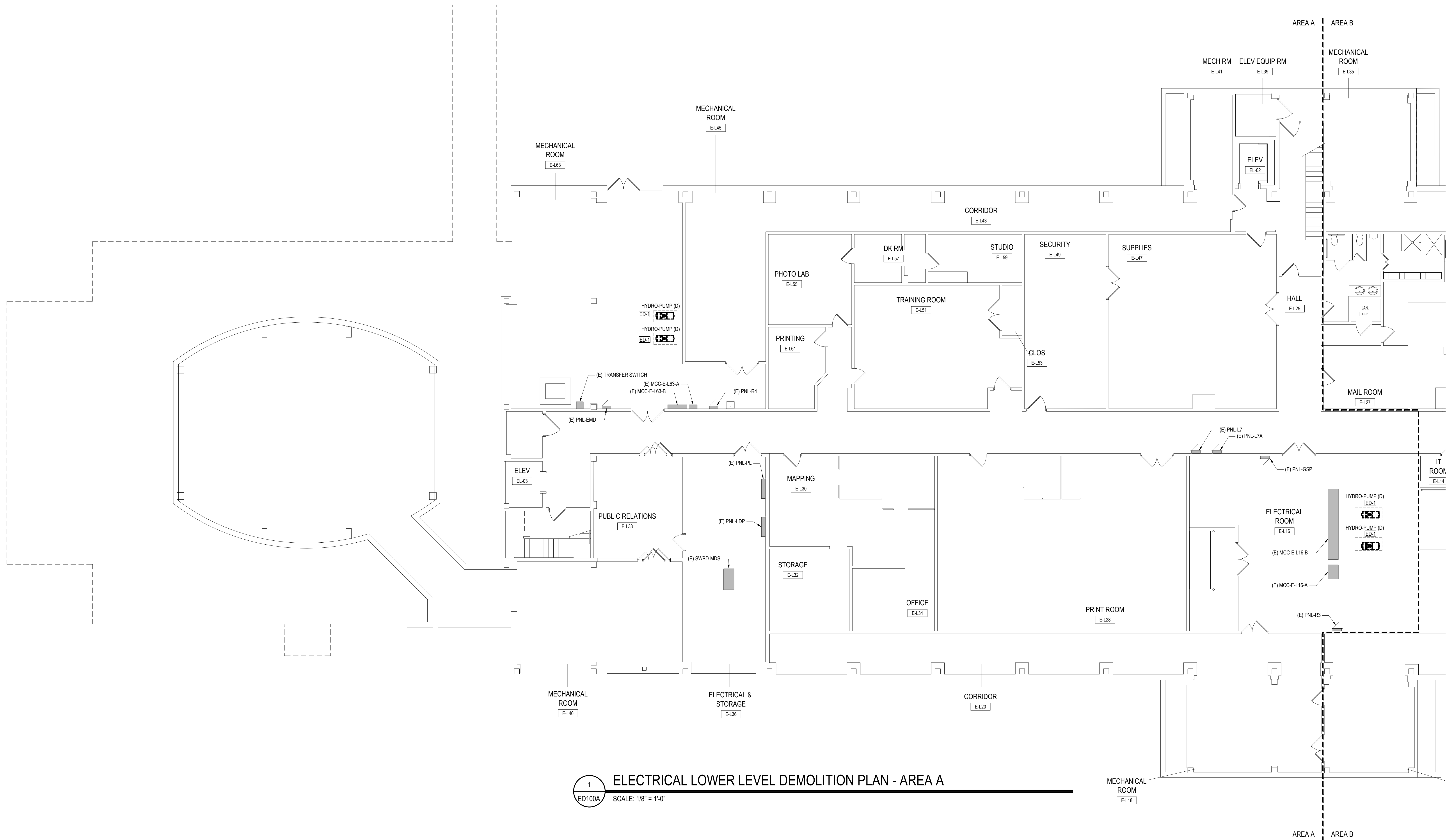
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

SHEET NO.

E-000

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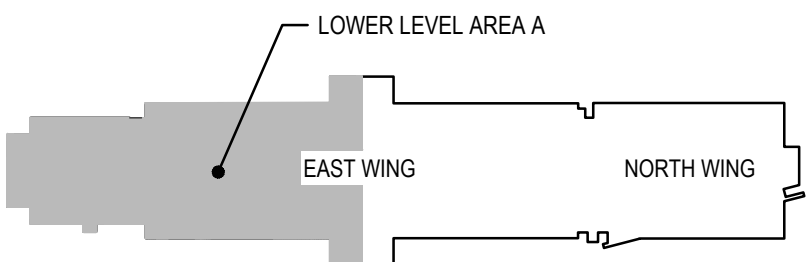
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1 ELECTRICAL LOWER LEVEL DEMOLITION PLAN - AREA A
ED100A SCALE: 1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES:
[ED-1] DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT AND WIRING FROM MECHANICAL EQUIPMENT TO BE DEMOLISHED INCLUDING BUT NOT LIMITED TO STARTERS, CONTROLLERS, DISCONNECT SWITCHES, WIRE, WIREMOLD, AND CONDUIT COMPLETELY BACK TO SOURCE. ALL AHUS TO HAVE BOTH SUPPLY AND RETURN AIR CIRCUITS DEMOLISHED.

LOWER LEVEL KEY PLAN
SCALE: NTS



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PROJECT
OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DEM PROJECT NO. MJ551100003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE

LOWER LEVEL
DEMOLITION PLAN -
AREA A

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

DRAWN JD	CHKD PP	PROJECT NO. 19121
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SHEET NO.

ED100A



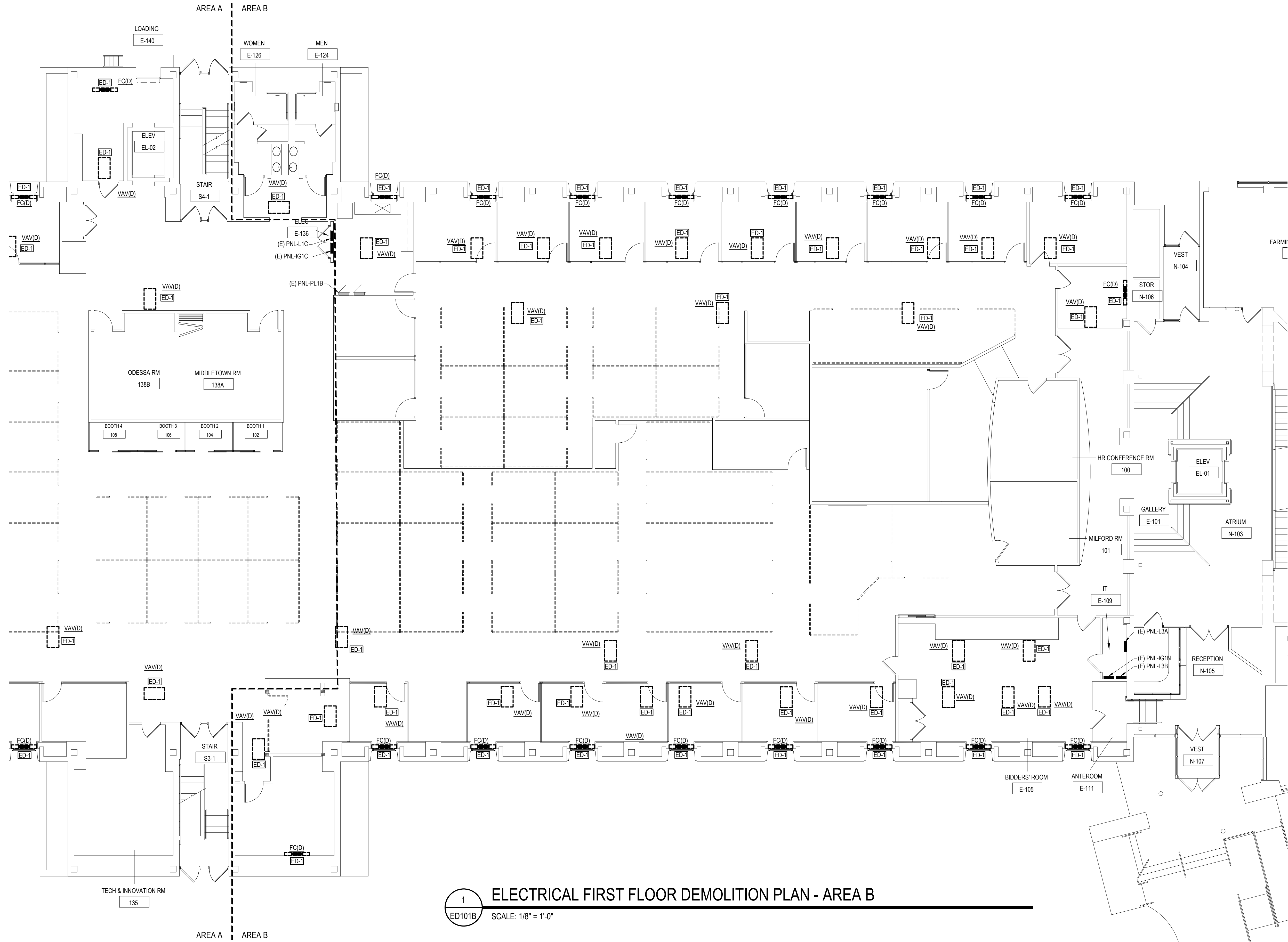
The diagram shows a floor plan with the following components:

- SOUTH WING**: A large rectangular area on the left.
- MECH. PLANT**: A small rectangular area located between the South Wing and the West Wing.
- WEST WING**: A rectangular area to the right of the Mech. Plant.
- EAST WING**: A large, irregularly shaped area at the bottom, shaded in gray.
- NORTH WING**: A long, narrow rectangular area on the right.
- FIRST FLOOR AREA A**: A label with a line pointing to the shaded East Wing area.

PROJECT NORTH TRUE NORTH

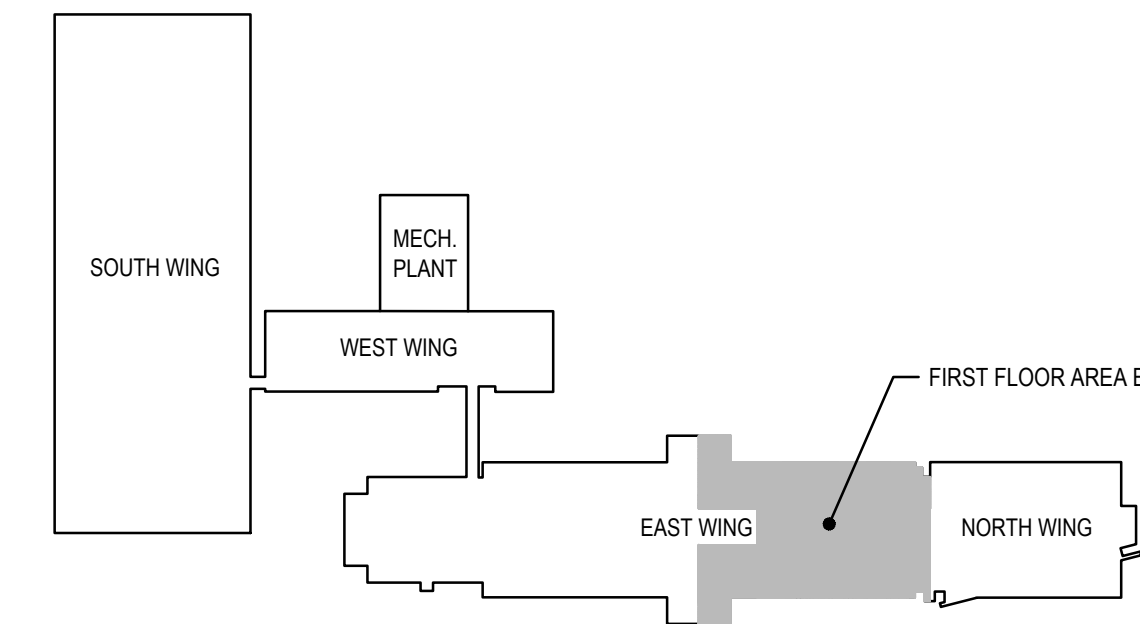
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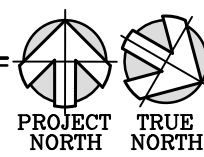


ELECTRICAL DEMOLITION NOTES:

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FIRST FLOOR KEY PLAN
SCALE: NTS



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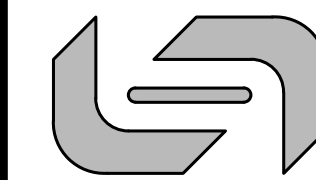
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MARK	DESCRIPTION	DATE

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FIRST FLOOR DEMOLITION PLAN - AREA B		
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JD	PP	19121
SHEET NO.		

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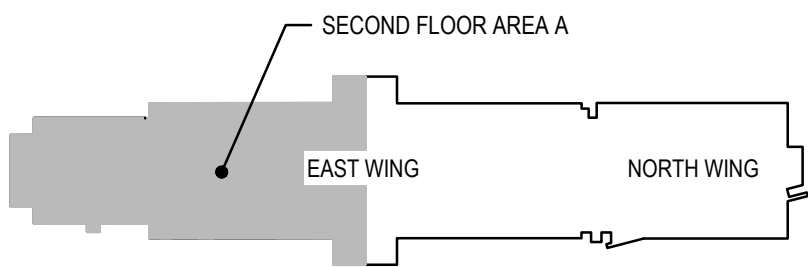
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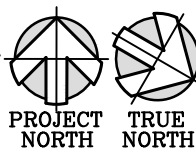
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SECOND FLOOR KEY PLAN

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SECOND FLOOR
DEMOLITION PLAN -
AREA A

BIDDING
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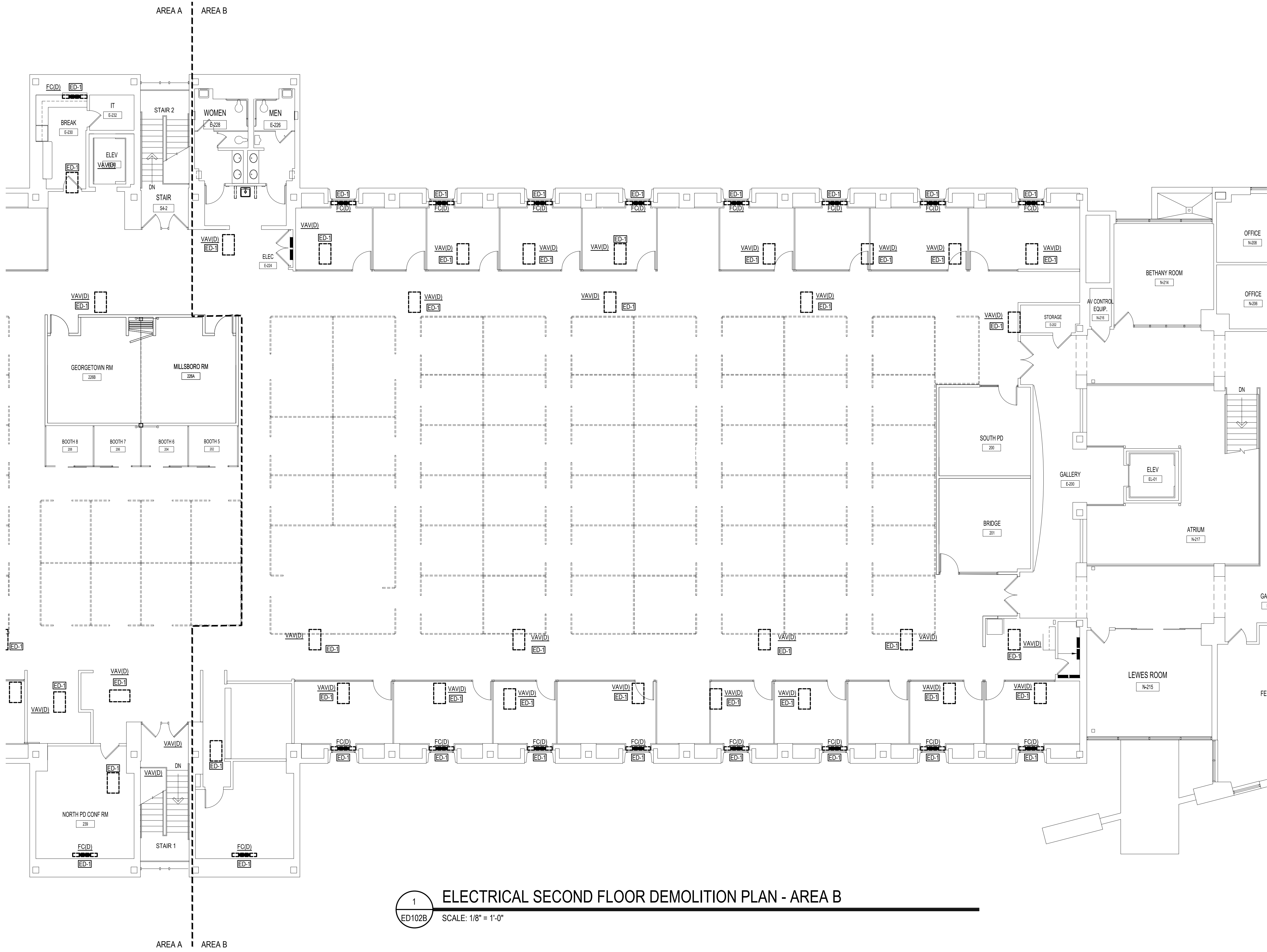
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SHEET NO.

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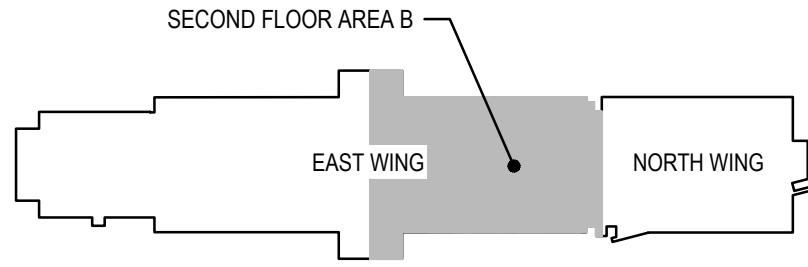
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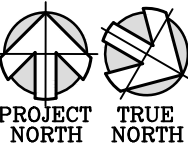
ELECTRICAL DEMOLITION NOTES:

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SECOND FLOOR KEY PLAN

SCALE: NTS



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OMB / DEM PROJECT NO. MJ551100003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
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MARK	DESCRIPTION	DATE

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SECOND FLOOR
DEMOLITION PLAN -
AREA B

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DOCUMENTS
FEBRUARY 14, 2023

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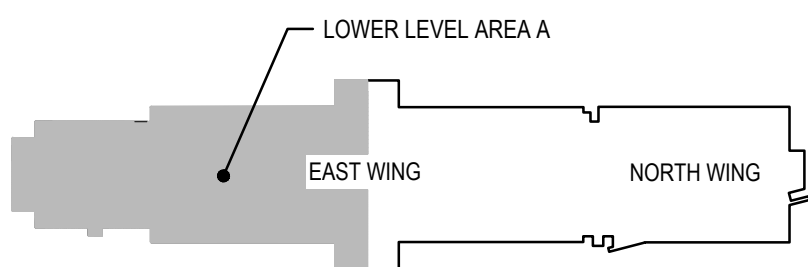
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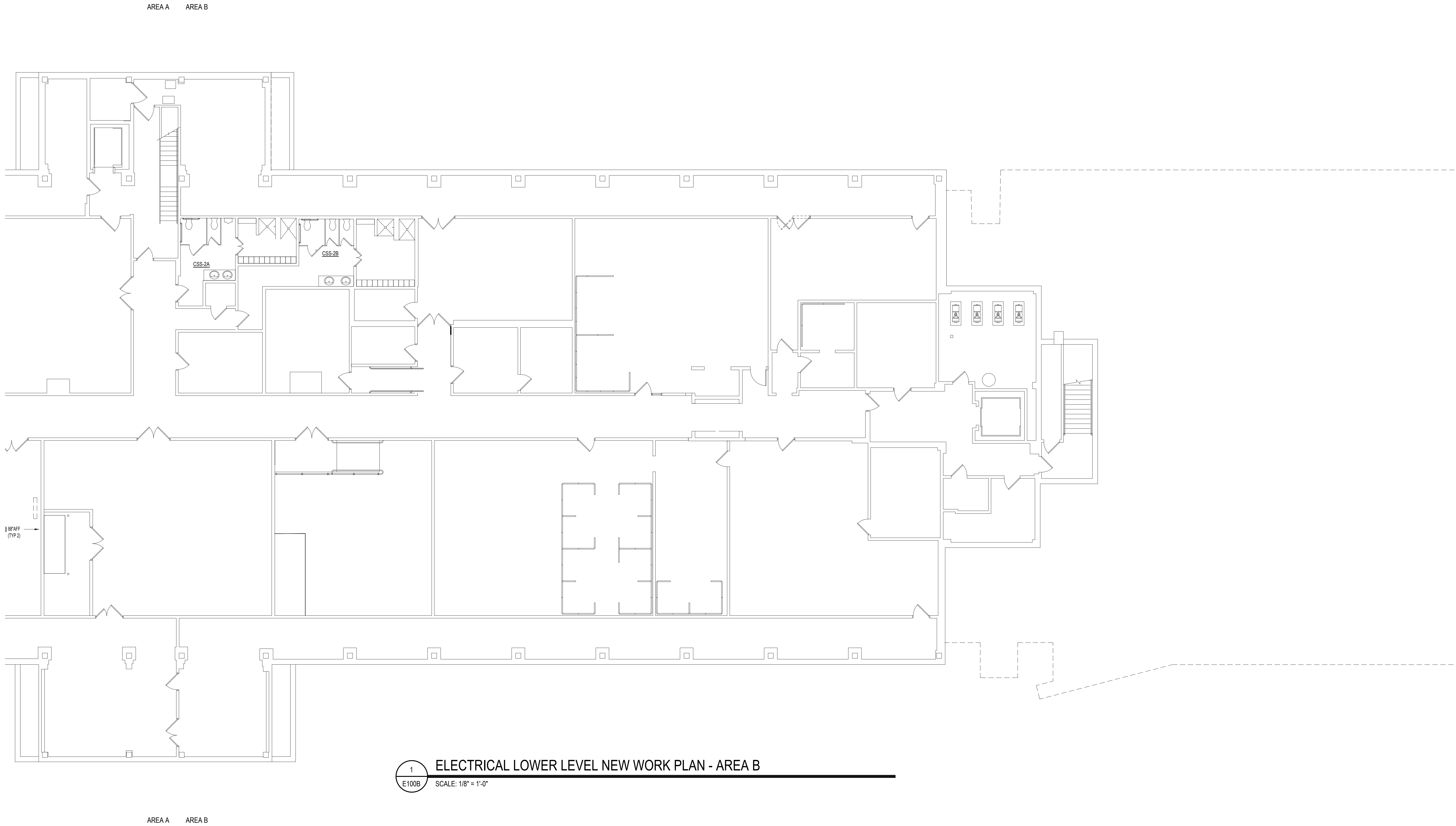
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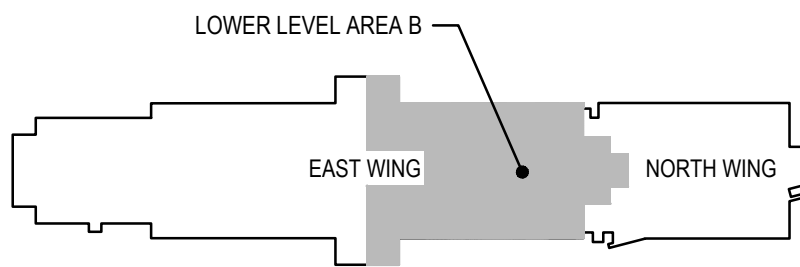
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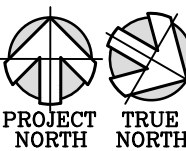
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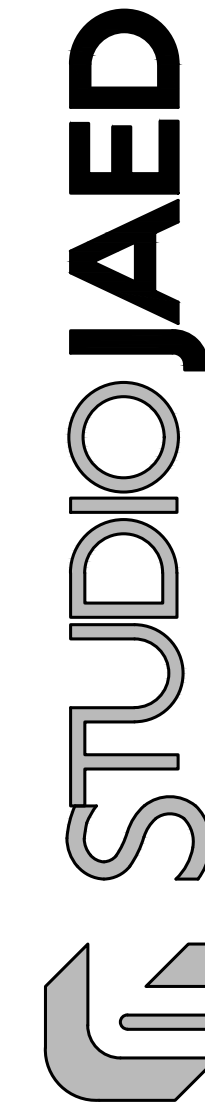


1 ELECTRICAL LOWER LEVEL NEW WORK PLAN - AREA B
E100B SCALE: 1/8" = 1'-0"



LOWER LEVEL KEY PLAN
SCALE: NTS





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OMB / DEM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

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MARK	DESCRIPTION	DATE

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LOWER LEVEL NEW WORK PLAN - AREA B

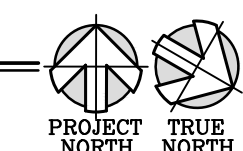
BIDDING DOCUMENTS
FEBRUARY 14, 2023

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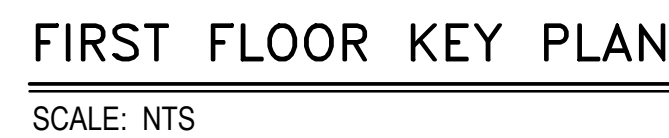
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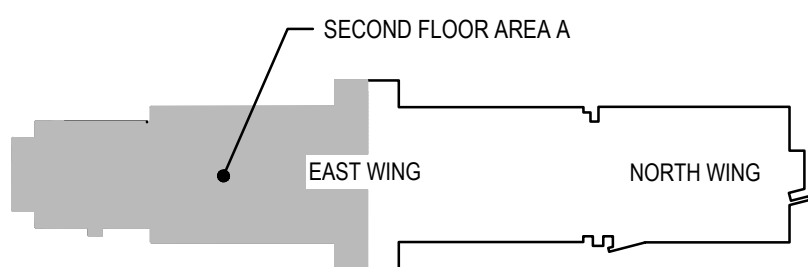
FIRST FLOOR NEW
WORK PLAN - AREA A

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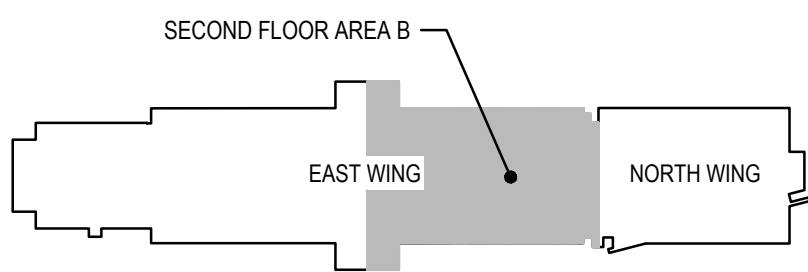
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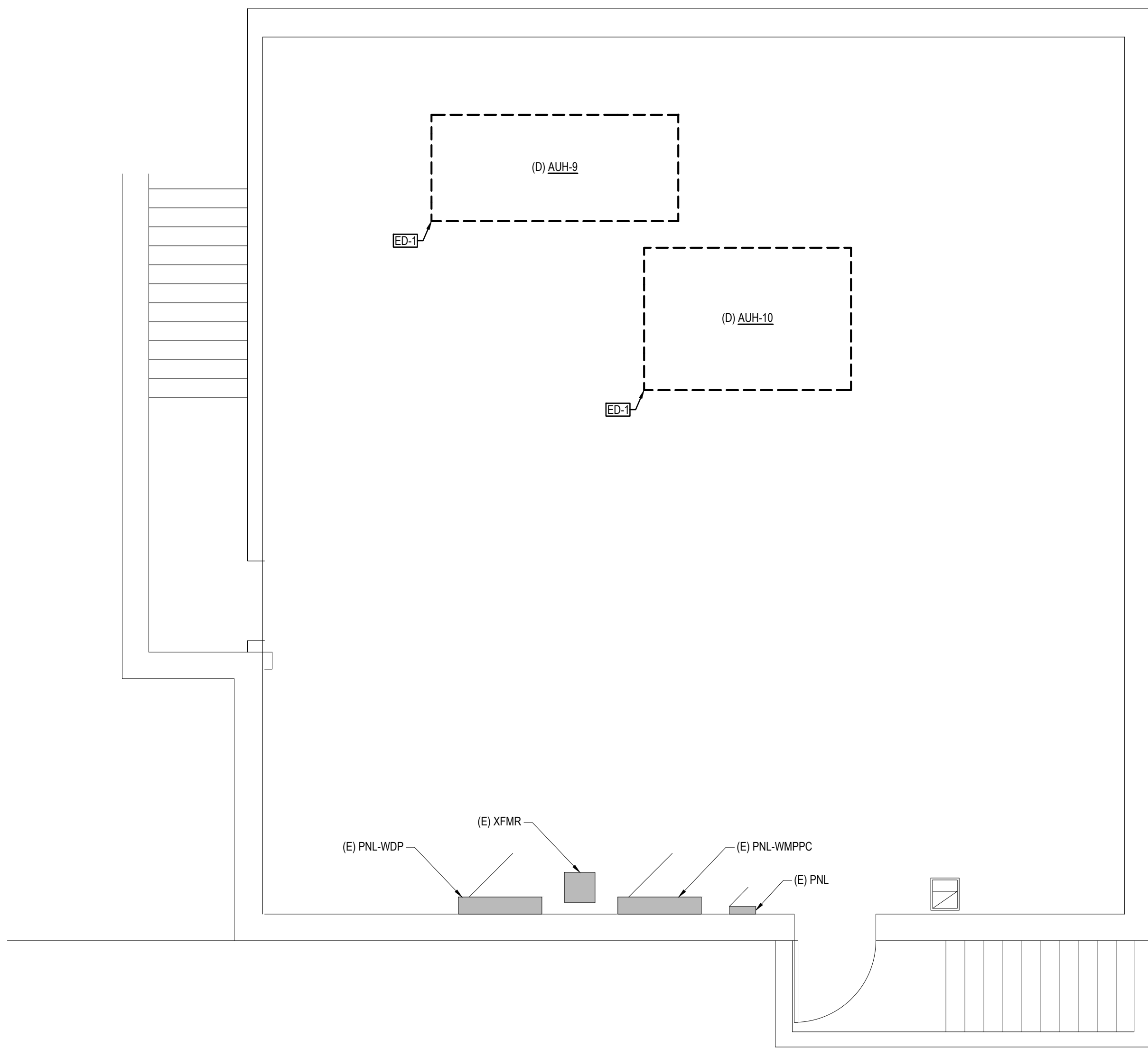
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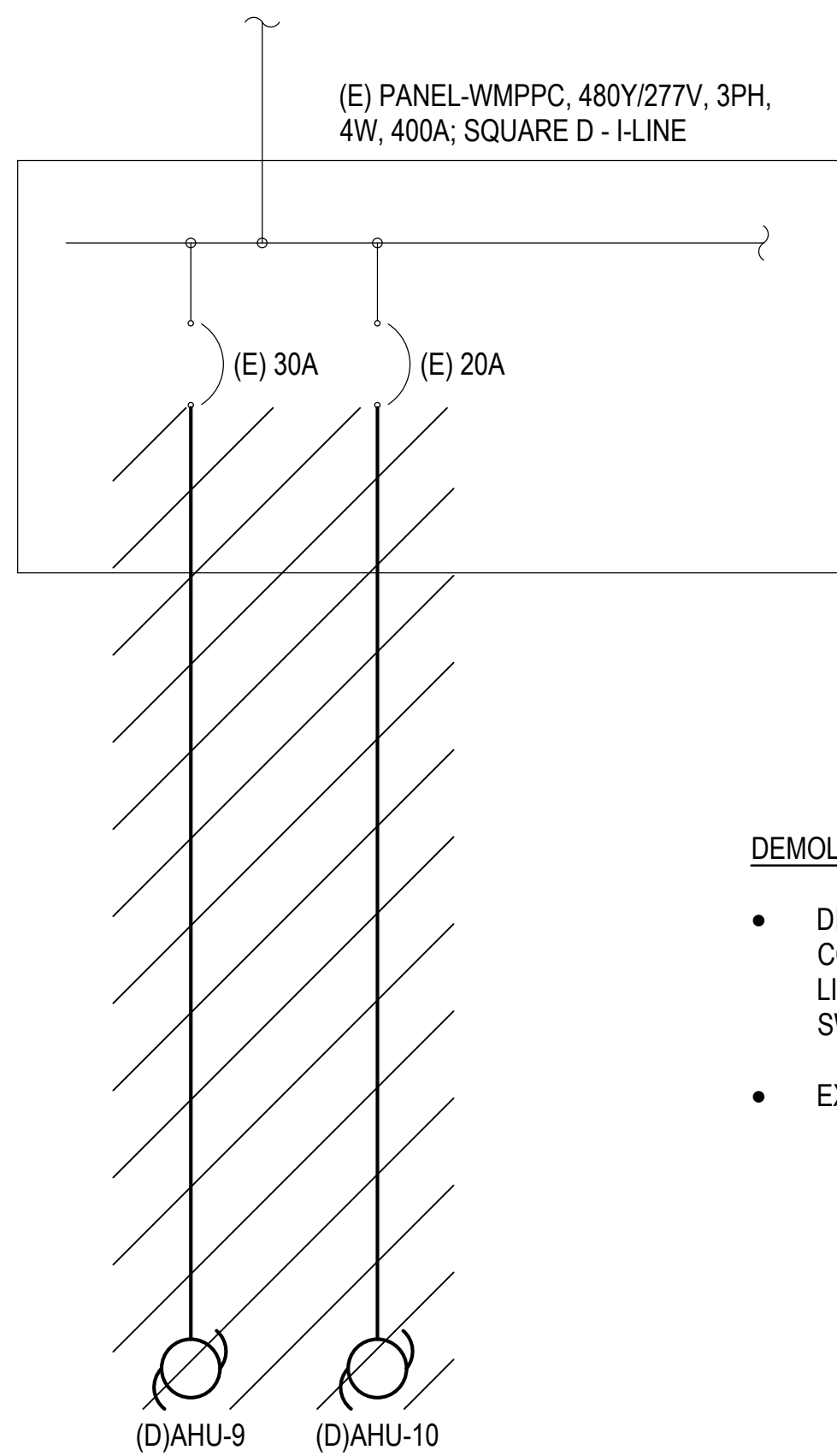
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ELECTRICAL DEMOLITION NOTES:

- ED-1 DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT AND WIRING FROM MECHANICAL EQUIPMENT TO BE DEMOLISHED INCLUDING BUT NOT LIMITED TO STARTERS, CONTROLLERS, DISCONNECT SWITCHES, WIRE, WIREMOLD, AND CONDUIT COMPLETELY BACK TO SOURCE. ALL AHUS TO HAVE BOTH SUPPLY AND RETURN AIR CIRCUITS DEMOLISHED.



1 LOWER LEVEL WEST WING ELECTRICAL DEMOLITION PLAN - ADD ALT NO. 1
E-401 SCALE: 1/4" = 1'-0"

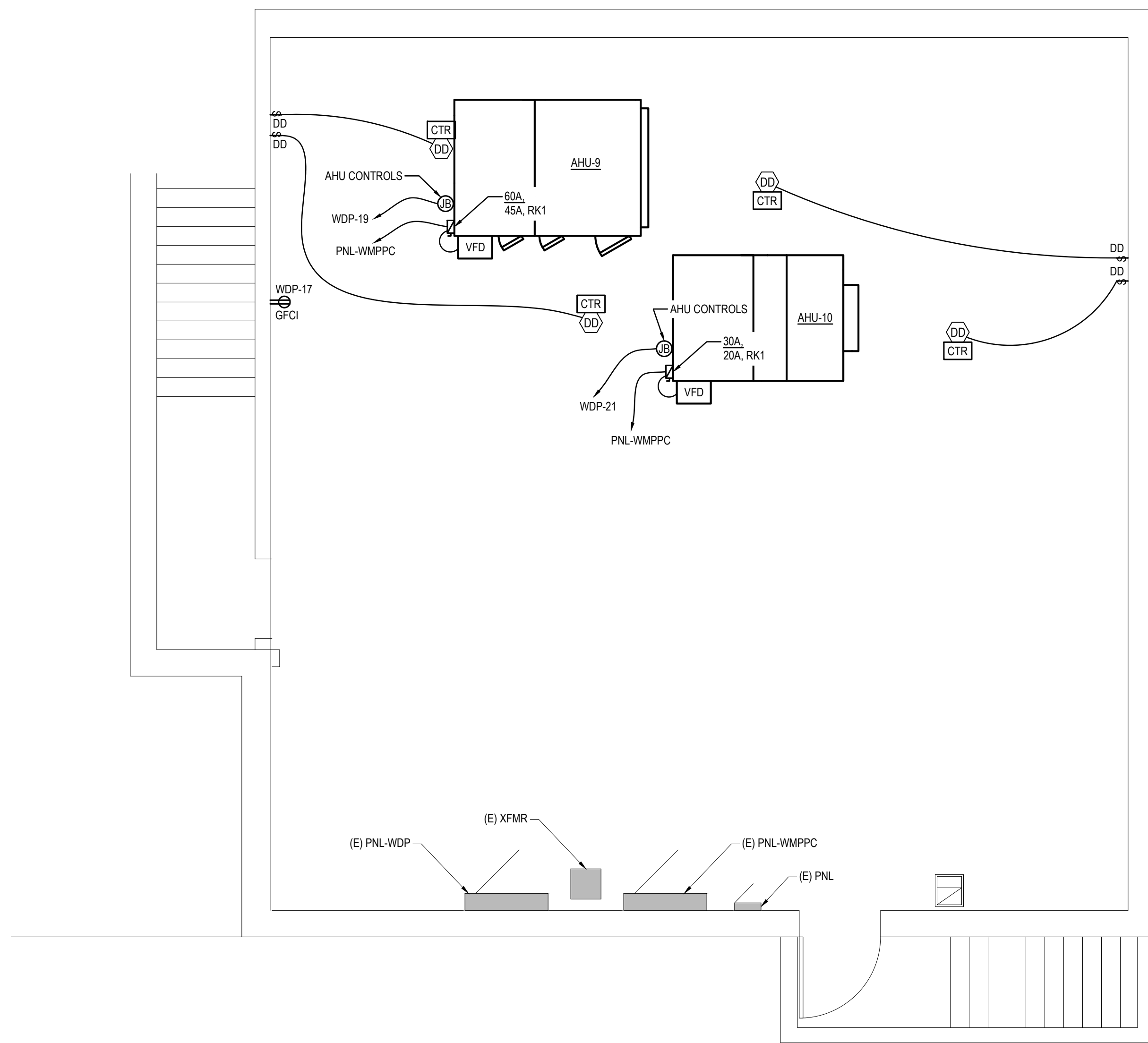


DEMOLITION NOTES:

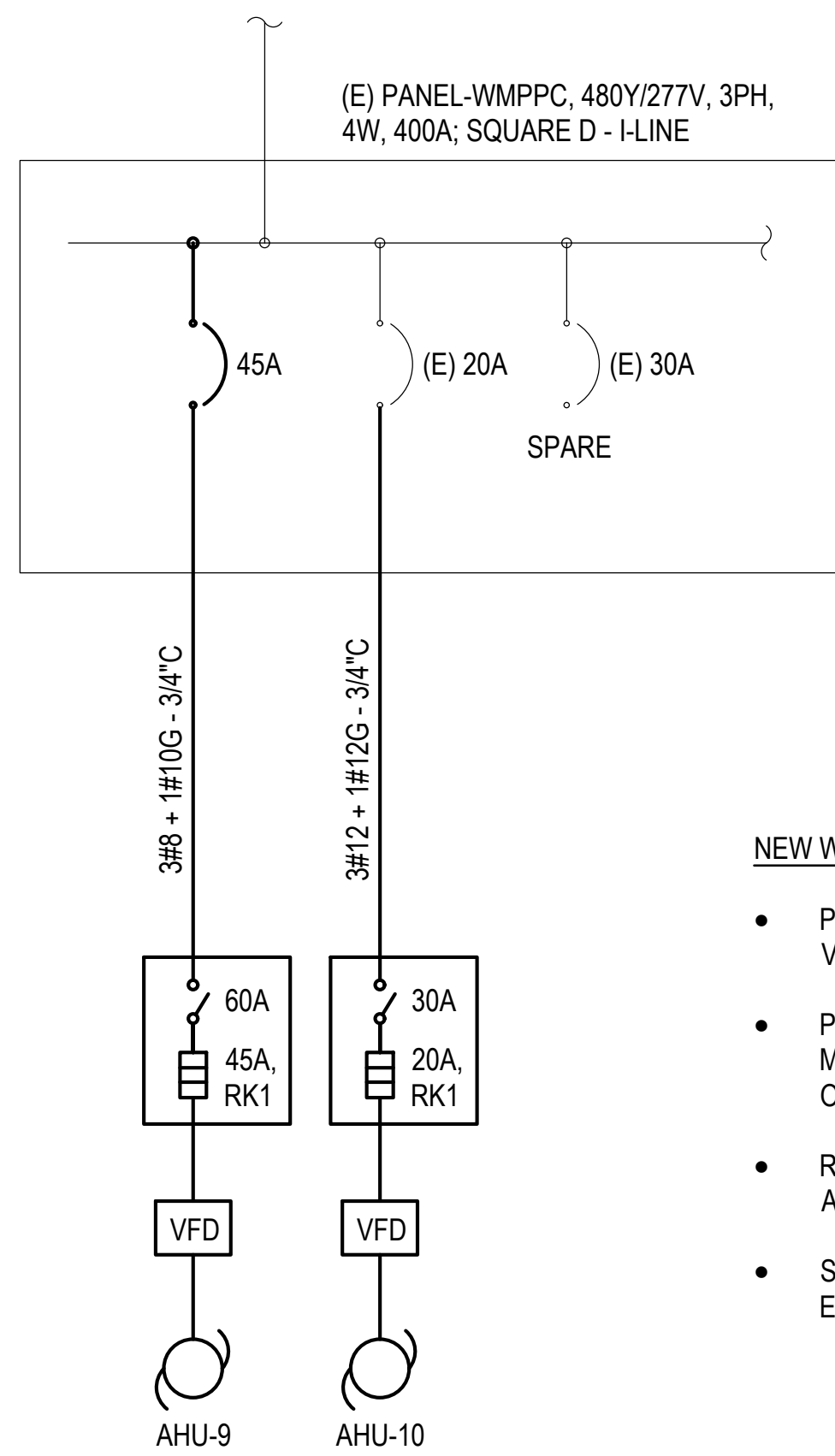
- DISCONNECT AND REMOVE POWER TO AHUS COMPLETELY BACK TO SOURCE INCLUDING BUT NOT LIMITED TO STARTERS, CONTROLLERS, DISCONNECT SWITCHES, WIRE, WIREMOLD, AND CONDUIT.
- EXISTING CIRCUIT BREAKERS TO REMAIN.

3 PARTIAL ELECTRICAL SINGLE LINE DIAGRAM - DEMOLITION
E-401 SCALE: NOT TO SCALE

* ALL CIRCUIT BREAKERS AND DISCONNECT SWITCHES ARE 3 POLES UNLESS NOTED.
ALL ELECTRICAL EQUIPMENT ARE TO BE DEMOLISHED UNLESS NOTED OTHERWISE.



2 LOWER LEVEL WEST WING ELECTRICAL NEW WORK PLAN - ADD ALT NO. 1
E-401 SCALE: 1/4" = 1'-0"



NEW WORK NOTES:

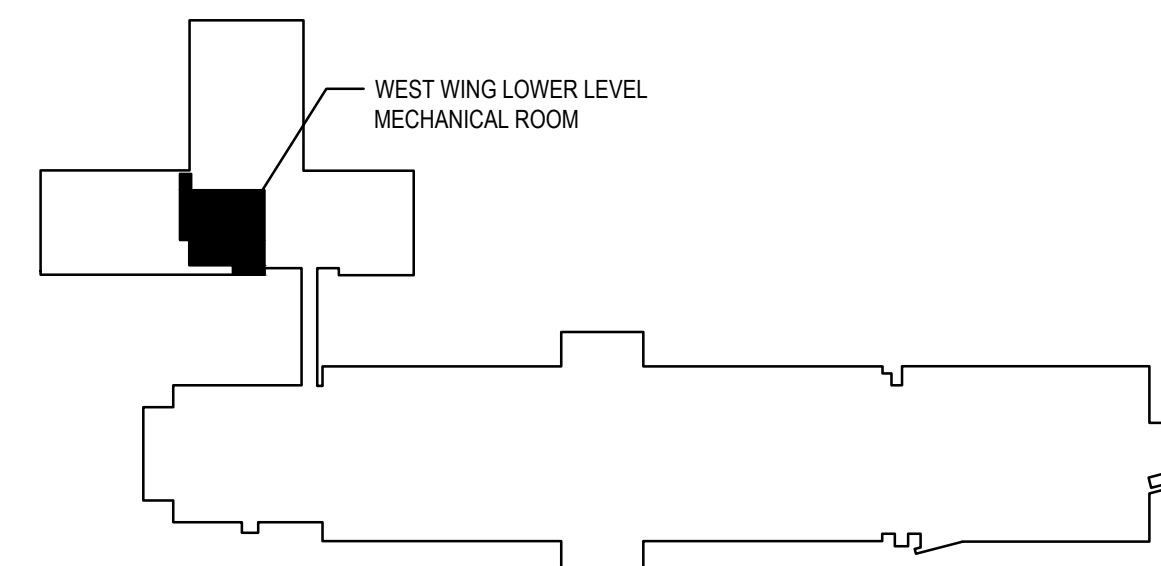
- PROVIDE NEW FUSED DISCONNECT SWITCHES, VFD's, WIRES, AND CONDUITS AS SHOWN.
- PROVIDE NEW CIRCUIT BREAKERS FOR THE NEW MECHANICAL UNITS AS SHOWN, UNLESS NOTED OTHERWISE.
- REUSE EXISTING 20A/3P CIRCUIT BREAKER FOR AHU-10.
- SEE ELECTRICAL GENERAL NOTE #31 ON SHEET E-000 FOR VFD CABLE REQUIREMENTS.

4 PARTIAL ELECTRICAL SINGLE LINE DIAGRAM - NEW WORK
E-401 SCALE: NOT TO SCALE

* ALL CIRCUIT BREAKERS AND DISCONNECT SWITCHES ARE 3 POLES UNLESS NOTED.
ALL ELECTRICAL EQUIPMENT ARE NEW UNLESS NOTED OTHERWISE.

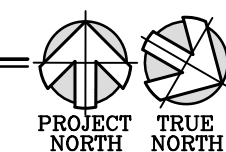
EXISTING PANEL

PANEL: WDP										VOLTAGE: 208Y/120V, 3PH, 4W																		
LOCATION: BUS: MAIN										ENCLOSURE: NEMA-1																		
400A MLO										RATINGS: MFR: SQUARE D - NG00D																		
ØA	ØB	ØC	DESCRIPTION										ØA	ØB	ØC	DESCRIPTION										ØA	ØB	ØC
kVA	kVA	kVA											kVA	kVA	kVA											kVA	kVA	kVA
-	-	-	EXISTING LOAD										3	100	1													



LOWER LEVEL KEY PLAN

SCALE: NTS



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OMB / DM PROJECT NO. M6511000003C
EAST WING HVAC REPLACEMENT
HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD, COVER, DELAWARE 19901

PROJECT

REVISIONS		
MARK	DESCRIPTION	DATE

SHEET TITLE

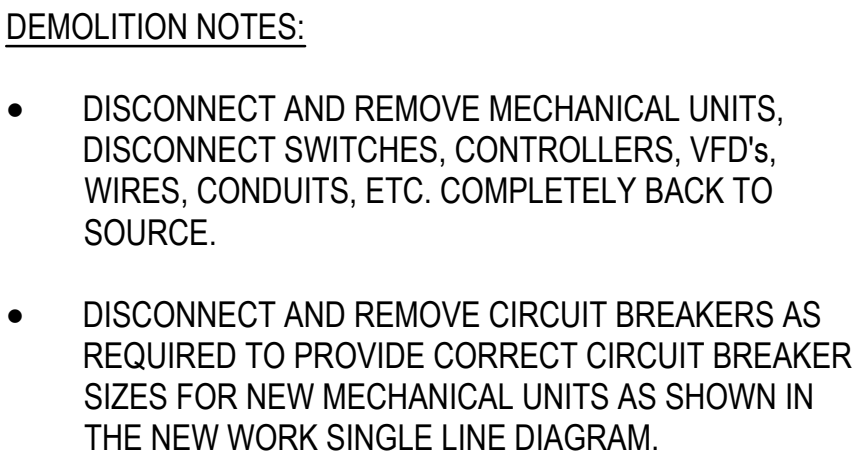
WEST WING LOWER
LEVEL ELECTRICAL
PLANS - ADD ALTERNATE
NO. 1

BIDDING
DOCUMENTS
FEBRUARY 14, 2023

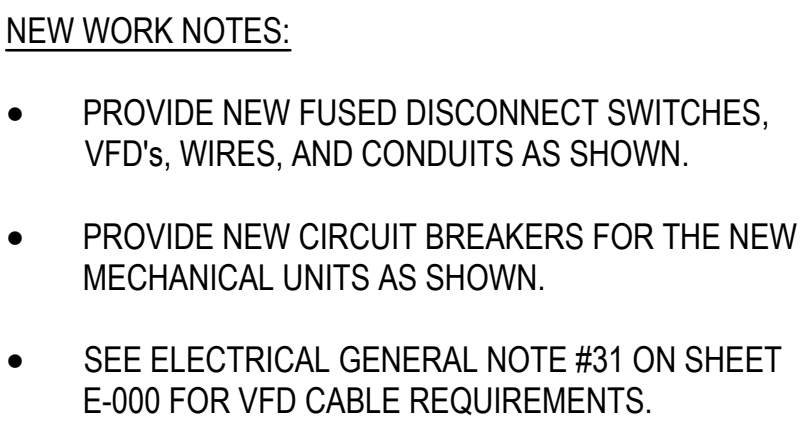
DRAWN	CHKD	PROJECT NO.
JD	PP	19121

SHEET NO.

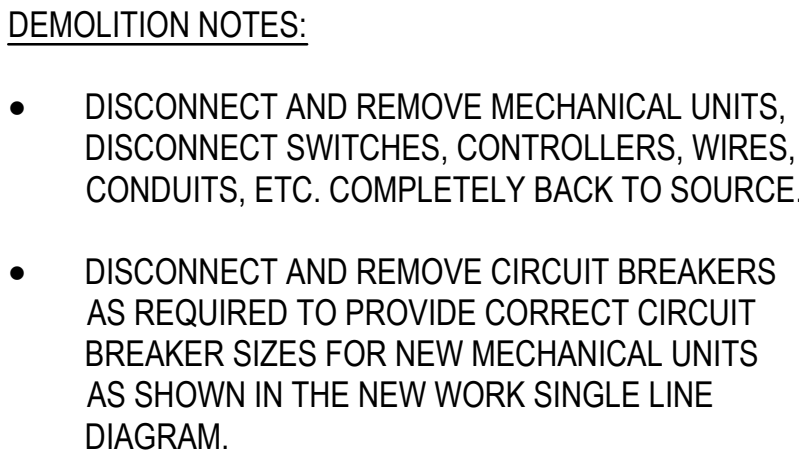
E-401



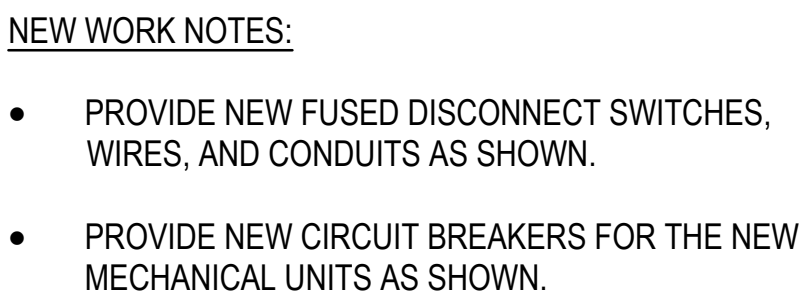
* ALL CIRCUIT BREAKERS AND DISCONNECT SWITCHES ARE 3 POLES UNLESS NOTED.



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ALL ELECTRICAL EQUIPMENT ARE NEW UNLESS NOTED OTHERWISE.



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CLIENTS AT THE LOCATION INDICATED. NO OTHER
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ARCHITECT / ENGINEER SEAL

OMB / DIVISION OF FACILITIES MANAGEMENT
OMB / DEM PROJECT NO. MJ5511000003C

EAST WING HVAC REPLACEMENT

HIGHWAY ADMINISTRATION BUILDING
800 S BAY RD. DOVER, DELAWARE 19901

[illegible]

SHEET TITLE

ELECTRICAL SINGLE LINE DIAGRAM

**BIDDING
DOCUMENTS**
FEBRUARY 14, 2023

DRAWN	CHK'D	PROJECT NO.
JD	PP	19121
SHEET NO.		

E-500

THE REVISIONS OF THESE PLANS BY ANY OTHER PERSON OR FIRM, WITHOUT THE WRITTEN CONSENT OF STUDIOJAED ARCHITECTS & ENGINEERS, IS PROHIBITED. NO PART OF THESE PLANS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF STUDIOJAED ARCHITECTS & ENGINEERS. THE REVISIONS OF THESE PLANS BY ANY OTHER PERSON OR FIRM, WITHOUT THE WRITTEN CONSENT OF STUDIOJAED ARCHITECTS & ENGINEERS, IS PROHIBITED. NO PART OF THESE PLANS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF STUDIOJAED ARCHITECTS & ENGINEERS.

4/22/2023 10:15 AM

EXISTING PANEL

PANEL: R4		LOCATION: LOWER LEVEL MECH RM E-L63		VOLTAGE: 208Y/120V, 3PH, 4W	
BUS: 100A		ENCLOSURE: NEMA-1			
MAIN: 100A MCB		A.I.C: _____			
		RATINGS: _____			
		MFR: EATON - PRL-1A			

ØA kVA	ØB kVA	ØC kVA	DESCRIPTION	Ø Pdb	Br	Øk	Ø A B C	Øk	Br	Øk	DESCRIPTION	ØA kVA	ØB kVA	ØC kVA
-	-	-	EXISTING LOAD	1	20	1	●	2	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	3	●	4	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	5	●	6	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	7	●	8	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	9	●	10	20	1	SPARE	-	-	-
-	-	-	SPARE	1	20	11	●	12	20	1	SPARE	-	-	-
-	-	-	SPARE	1	20	13	●	14	20	1	SPARE	-	-	-
-	-	-	SPARE	1	20	15	●	16	20	1	SPARE	-	-	-
-	-	-	SPARE	1	20	17	●	18	20	1	SPARE	-	-	-
-	-	-	SPARE	1	20	19	●	20	20	1	SPARE	-	-	-
-	-	-	SPARE	1	20	21	●	22	20	1	SPARE	-	-	-
-	-	-	SPARE	1	20	23	●	24	20	1	RECEPT - ROOF	-	-	0.54
-	-	-	SPARE	1	20	25	●	26	20	2	HP1, WSS-1	1.26	-	-
-	-	-	SPACE	-	-	27	●	-	-	-	-	-	-	1.26
-	-	-	SPACE	-	-	29	●	30	25	2	HP-3, CSS-3A, CSS-3B	-	-	1.62
-	-	-	SPACE	-	-	31	●	32	-	-	-	1.62	-	-
-	-	-	SPACE	-	-	33	●	34	25	2	HP-4, CSS-4A, CSS-4B	-	-	1.62
-	-	-	SPACE	-	-	35	●	36	-	-	-	-	-	1.62
-	-	-	SPACE	-	-	37	●	38	-	-	SPACE	-	-	-
-	-	-	SPACE	-	-	39	●	40	39	-	SPACE	-	-	-
-	-	-	SPACE	-	-	41	●	42	-	-	SPACE	-	-	-

CONNECTED LOAD
PHASE A: ___ kVA
PHASE B: ___ kVA
PHASE C: ___ kVA
TOTAL CONNECTED LOAD = ___ kVA

* REUSE EXISTING SPARE CIRCUIT BREAKER AND PROVIDE NEW 2#12 - 1#12G - 3/4" C WIRING.
** REUSE EXISTING SPARE CIRCUIT BREAKER AND PROVIDE NEW 2#10 - 1#10G - 3/4" C WIRING.
*** PROVIDE NEW CIRCUIT BREAKER AND NEW 2#12 - 1#12G - 3/4" C WIRING.
**** PROVIDE NEW CIRCUIT BREAKER AND NEW 2#6 - 1#6G - 3/4" C WIRING.

EXISTING PANEL

PANEL: IG1C	LOCATION: 1ST FLOOR IT RM E-136	VOLTAGE: 208Y/120V, 3PH, 4W
BUS: 225A	ENCLOSURE: NEMA-1	
MAIN: MLO	A.I.C: ---	
	RATINGS: ---	
	MFR: CUTTLER HAMMER - TYPE PB	

ØA kVA	ØB kVA	ØC kVA	DESCRIPTION	Phase	Br	Øk	Ø	Øk	Br	Øk	DESCRIPTION	ØA kVA	ØB kVA	ØC kVA
-	-	-	EXISTING LOAD	1	20	1	2	20	1	2	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	3	4	20	1	4	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	5	6	20	1	6	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	7	8	20	1	8	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	9	10	20	1	10	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	11	12	20	1	12	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	13	14	20	1	14	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	15	16	20	1	16	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	17	18	20	1	18	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	19	20	20	1	20	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	21	22	20	1	22	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	23	24	20	1	24	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	25	26	20	1	26	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	27	28	20	1	28	VAV-4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4I, 4J, 4K, 4M-2, 4N, 4O, 4P	0.60	-	*
-	-	-	EXISTING LOAD	1	20	29	30	20	1	30	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	31	32	20	1	32	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	33	34	20	1	34	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	35	36	20	1	36	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	37	38	20	1	38	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	39	40	20	1	40	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	41	42	20	1	42	EXISTING LOAD	-	-	-

CONNECTED LOAD
PHASE A: ___ kVA
PHASE B: ___ kVA
PHASE C: ___ kVA
TOTAL CONNECTED LOAD = ___ kVA

* PROVIDE NEW CIRCUIT BREAKER AND NEW 2#10 - 1#10G - 3/4" C WIRING.

EXISTING PANEL

PANEL: L2C		LOCATION: 2ND FLOOR ELEC CLOSET		VOLTAGE: 208Y/120V, 3PH, 4W	
BUS: 255A		MLO		ENCLOSURE: NEMA-1	
MAIN:				RATINGS: —	
				MFR: CUTLER HAMMER	

ØA kVA	ØB kVA	ØC kVA	DESCRIPTION	Ø Pole	Br	Øk	Ø	Øk	Br	Øk	DESCRIPTION	ØA kVA	ØB kVA	ØC kVA
-	-	-	EXISTING LOAD	1	20	1	A	2	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	3	B	4	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	5	C	6	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	7	D	8	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	9	E	10	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	11	F	12	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	13	G	14	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	15	H	16	20	1	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	17	I	18	20	1	VAV-4A-1,2, 60,R.S.T.U.V.W. 6AA-1,2,3	-	-	0.60
-	-	-	EXISTING LOAD	1	20	19	J	20	20	1	VAV-IP-1,2,3,4, 1R-1, 1T-1, 1V-1, 6M,N,O,P,X	0.60	-	-
-	-	-	EXISTING LOAD	1	20	21	K	22	20	1	VAV-1L-3, 1L-4, 1Q, 1S, 1M-1, 1M-2, 1M-3, 1U, 1V-3	-	-	0.45
-	-	-	EXISTING LOAD	1	20	23	L	24	20	1	VAV-1L-1, 1L-2, 1R-2, 1T-2, 1V-2, 2O, 2P, 2Q, 2R, 2S	-	-	0.50
-	-	-	EXISTING LOAD	1	20	25	M	26	20	1	VAV-2T,U,V,W,X,Y,Z, 2AA, 2AB-1,2,3,4	0.60	-	-
-	-	-	EXISTING LOAD	1	20	27	N	28	20	1	VAV-4Q, 4R, 4S, 4T, 4U, 4AB-1, 4AB-2	-	-	0.35
-	-	-	SPARE	1	20	29	O	30	20	1	SPARE	-	-	-
-	-	-	EXISTING LOAD	1	20	31	P	32	20	1	SPARE	-	-	-
-	-	-	SPARE	1	20	33	Q	34	20	1	SPARE	-	-	-
-	-	-	EXISTING LOAD	1	20	35	R	36	20	1	SPARE	-	-	-
-	-	-	EXISTING LOAD	1	20	37	S	38	20	1	SPARE	-	-	-
-	-	-	EXISTING LOAD	1	20	39	T	40	20	1	EXISTING LOAD	-	-	-
-	-	-	SPACE	-	-	41	U	42	20	1	EXISTING LOAD	-	-	-

CONNECTED LOAD
PHASE A = ___ kVA
PHASE B = ___ kVA
PHASE C = ___ kVA
TOTAL CONNECTED LOAD = ___ kVA

* PROVIDE NEW CIRCUIT BREAKER AND NEW 2#10 - 1#10G - 3/4" C WIRING.
** PROVIDE NEW CIRCUIT BREAKER AND NEW 2#6 - 1#6G - 3/4" C WIRING.

EXISTING PANEL

PANEL: R3		LOCATION: LOWER LEVEL ELEC RM E-L16										VOLTAGE: 208Y/120V, 3PH, 4W		
BUS: 100A												ENCLOSURE: NEMA-1		
MAIN: 100A MCB												A.I.C: ———		
												RATINGS: ———		
												MFR: EATON - PRL-1A		

ØA kVA	ØB kVA	ØC kVA	DESCRIPTION	ØA	Br	Øk	Ø	Øk	Br	Øk	DESCRIPTION	ØA kVA	ØB kVA	ØC kVA
-	-	-	EXISTING LOAD	1	20	1	A	20	1	2	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	3	B	20	1	4	EXISTING LOAD	-	-	-
-	-	-	EXISTING LOAD	1	20	5	C	20	1	6	EXISTING LOAD	-	-	-
-	-	-	SPARE	1	20	7	•	20	1	8	SPARE	-	-	-
-	-	-	SPARE	1	20	9	•	20	1	10	SPARE	-	-	-
-	-	-	0.36 RECEPT - BY AHU/S, EXTERIOR BY HP	1	20	11	•	20	1	12	SPARE	-	-	-
-	-	-	SPARE	1	20	13	•	20	1	14	SPARE	-	-	-
-	-	-	SPARE	1	20	15	•	20	1	16	SPARE	-	-	-
-	-	-	SPARE	1	20	17	•	20	1	18	SPARE	-	-	-
-	-	-	SPARE	1	20	19	•	20	1	20	SPARE	-	-	-
-	-	-	SPARE	1	20	21	•	20	1	22	SPARE	-	-	-
-	-	-	SPARE	1	20	23	•	20	1	24	SPARE	-	-	-
1.62	-	-	HP-2, CSS-2A, CSS-2B	2	25	25	•	26	-	-	SPACE	-	-	-
-	1.62	-		-	-	27	•	28	-	-	SPACE	-	-	-
-	-	-	SPACE	-	-	29	•	30	-	-	SPACE	-	-	-
-	-	-	SPACE	-	-	31	•	32	-	-	SPACE	-	-	-
-	-	-	SPACE	-	-	33	•	34	-	-	SPACE	-	-	-
-	-	-	SPACE	-	-	35	•	36	-	-	SPACE	-	-	-
-	-	-	SPACE	-	-	37	•	38	-	-	SPACE	-	-	-
-	-	-	SPACE	-	-	39	•	40	-	-	SPACE	-	-	-
-	-	-	SPACE	-	-	41	•	42	-	-	SPACE	-	-	-

CONNECTED LOAD
PHASE A: _____ kVA
PHASE B: _____ kVA
PHASE C: _____ kVA
TOTAL CONNECTED LOAD = _____ kVA

* REUSE EXISTING SPARE CIRCUIT BREAKER AND PROVIDE NEW 2#12 - 1#12G - 3/4" C WIRING.
** REUSE EXISTING SPARE CIRCUIT BREAKER AND PROVIDE NEW 2#10 - 1#10G - 3/4" C WIRING.
*** PROVIDE NEW CIRCUIT BREAKER AND NEW 2#6 - 1#6G - 3/4" C WIRING.

EXISTING PANEL

PANEL: IG1N		LOCATION: 1ST FLOOR IT RM E-109		VOLTAGE: 208Y/120, 3PH, 4W	
BUS: 225A		ENCLOSURE: NEMA-1			
MAIN: MLO		A.I.C: —			
		RATINGS: MFR			
		CUTTLER HAMMER - TYPE PB			

ØA kVA	ØB kVA	ØC kVA	DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
-	-	-	EXISTING LOAD	1	20	1																																								
-	-	-	EXISTING LOAD	1	20	3																																								
-	-	-	EXISTING LOAD	1	20	5																																								
-	-	-	EXISTING LOAD	1	20	7																																								
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