

## GENERAL MECHANICAL NOTES

- ALL WORK SHALL COMPLY WITH LOCAL STATE AND FEDERAL CODES TO SATISFACTION OF CODE AUTHORITIES HAVING JURISDICTION.
- COORDINATE ALL CEILING DEVICES, DUCTWORK, PIPEWORK, ETC. WITH LIGHTING, SPRINKLER, STRUCTURE, ETC. REFER TO ALL DRAWINGS, (PLUMBING, ELECTRICAL, ARCHITECTURAL, ETC.). NOTIFY ARCHITECT/ENGINEER CONCERNING ANY CONFLICTS NOTED PRIOR TO BIDS, FOR CLARIFICATION TO SATISFACTION OF BIDDER. REFER TO SPECIFICATIONS SECTION 15000 FOR REQUIREMENTS. REFER TO LATEST ARCHITECTURAL REFLECTED CEILING PLAN. COORDINATE DEVICE LOCATION WITH CEILING GRID. DUCT WORK, PIPING SHOP/COORDINATION DRAWINGS REQUIRED.
- ALL SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST AIR DUCTWORK SHALL BE UNLINED AND WRAPPED EXTERNALLY. UNLESS SPECIFICALLY SATED OTHERWISE DUCT SIZES SHOWN ARE CLEAR METAL TO METAL.
- HARDCAST ALL DUCTWORK JOINTS FOR AIRTIGHT SYSTEM. REFER TO DETAILS FOR DUCTWORK TAP, SPLITTER, BRANCH CONFIGURATION, ETC. INSTALL IN ACCORDANCE WITH SMACNA RECOMMENDATIONS INSTALLATION GUIDELINES.
- CONTRACTOR SHALL SEAL ALL PIPING AND DUCT PENETRATIONS THROUGH WALLS AND FLOORS AS PER THE RATED UL DESIGNATION'S REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR ALL RATINGS.
- PROVIDE ACCESS PANELS PER SPECIFICATIONS TO ACCESS ALL DEVICES REQUIRING MAINTENANCE/ADJUSTMENT WHERE NECESSARY. COORDINATE WITH ARCHITECTURAL FINISH SCHEDULE.
- CONTRACTOR SHALL SEAL ALL DUCTWORK DURING CONSTRUCTION TO PREVENT CONTAMINATION DUE TO CONSTRUCTION DEBRIS.
- CONTRACTOR SHALL REFER TO ALL ARCHITECTURAL DRAWINGS FOR PHASING.
- ALL VALVES, DAMPERS, ACCESS PANELS, ETC SHALL BE INSTALLED FOR MAXIMUM ACCESSIBILITY.
- ALL DUCT WORK AND PIPING MUST BE INSPECTED BY ENGINEER PRIOR TO INSULATING BUT AFTER PRESSURE TESTING AND PRIOR TO CEILING BEING PUT IN PLACE.
- ALL CONTROLS FUNCTION OF ALL EQUIPMENT MUST BE DEMONSTRATED TO ENGINEER PRIOR TO CEILING BEING PUT IN PLACE. NO EXCEPTIONS. 2 WEEKS ADVANCED NOTICE IS REQUIRED.
- DUCT WORK AND EQUIPMENT LOCATIONS PIPING MUST BE COORDINATED WITH OTHER TRADES; THIS LAYOUT IS DIAGRAMMATICAL AND ACTUAL PLACEMENT AND ROUTING WILL VARY.
- CAD SHOP DRAWINGS/ COORDINATION DRAWINGS FOR DUCT WORK AND ALL PIPE SHALL BE REQUIRED. THE DRAWING MUST REPRESENT ACTUAL ROUTING AND PLACEMENT OF ALL EQUIPMENT, PIPE, DUCT, AND ALL OTHER TRADES IN A COORDINATED LAYOUT.
- CONTRACTOR SHALL USE COASTAL AIR BALANCE OR ACADIAN AIR BALANCE. ALL BALANCE WORK SHALL BE IN THE PRESENCE OF THE ENGINEER. NO EXCEPTIONS. FAILURE TO DO SO WILL RESULT IN A FULL RE-BALANCE OF THE SYSTEM. TWO WEEK NOTICE TO ENGINEER MUST BE GIVEN IN WRITING. DATE MUST BE CONVENIENT TO ALL PARTIES.
- PAINT INSIDE OF ALL RETURN AIR AND EXHAUST AIR GRILLES FLAT BLACK.
- ALL EXHAUST FANS SHALL HAVE WALL SWITCH WITH PILOT LIGHT.

## MECHANICAL KEYNOTES

- DX-SPLIT CONDENSING UNIT MOUNTED ON 4 INCH CONCRETE HOUSEKEEPING PAD. LOCATE UNITS AS REQUIRED TO MAINTAIN PROPER SPACING FOR SERVICE AND MAINTENANCE. ALL REFRIGERANT LINES SHALL BE SIZED IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS FOR CAPACITIES AND DISTANCES.
- ALL REFRIGERANT LINES SHALL BE INSULATED WITH 1/2 INCH ARMAFLEX. EXTERIOR INSULATION SHALL BE COVERED WITH METAL JACKETING WITH METAL BANDING. PROVIDE GALVANIZED UNISTRUT SUPPORTS SECURED TO HOUSEKEEPING. PROVIDE GALVANIZED SADDLE UNDER INSULATION AT SUPPORTS AND SECURE WITH CLAMP AROUND INSULATION AND SADDLE.
- DX-SPLIT AIR HANDLING UNIT ABOVE MOUNTED 36" A.F.F. ON ANGLE IRON FRAME INSIDE OF GALVANIZED DRAIN PAN WITH FLOAT SWITCH AND ON 1/2 INCH NEOPRENE PAD COMPLETE WITH FLEX CONNECTIONS AT SUPPLY. PROVIDE FLOAT SWITCH INTERLOCKED WITH FAN TO DE-ENERGIZE SYSTEM UPON ACTIVATION. BOTTOM OF SWITCH 1/4 INCH FOR BOTTOM OF PAN. FURNISH AND INSTALL CONDENSATE PUMP. PROVIDE PVC CONDENSATE DRAIN LINE COMPLETE WITH P-TRAP TO FLOOR MOUNTED CONDENSATE PUMP ROUTED TO NEAREST PLUMBING VENT. PROVIDE CLEANOUT PLUGS AT ELBOW TURNS. FURNISH AND INSTALL 30"x36" FILTER BACK RETURN AIR GRILLE. SEAL RETURN AIR PLENUM AS REQUIRED.
- MOTORIZED TWO-POSITIONED OUTSIDE AIR DAMPER INTERLOCKED WITH AIR HANDLING UNIT TO OPEN TO SET POINT POSITION WHEN UNIT IS ENERGIZED AND CLOSE TO SEALED POSITION WITH UNIT IS DE-ENERGIZED.
- ROOF MOUNTED EXHAUST FAN ON 8" HIGH FACTORY ROOF CURB WITH BACKDRAFT DAMPER, AND INTERLOCKED WITH LIGHT OCCUPANCY SWITCH, WITH 10 MINUTE TIMER SWITCH. FURNISH AND INSTALL SOLID STATE SPEED CONTROLLER ABOVE CEILING. PRIME AND PAINT TO MATCH ROOF.
- FURNISH AND INSTALL 4 INCH CONCRETE HOUSEKEEPING PAD FOR HVAC EQUIPMENT. PAD SHALL BE 3000 PSI CONCRETE WITH WIRE MESH MATTING. COORDINATE EXACT SIZE AS REQUIRED TO MAINTAIN PROPER MAINTENANCE AND SERVICE CLEARANCES.
- ALL DUCT SHALL BE EXTERNALLY WRAPPED WITH 2" FOIL FACED FIBERGLASS INSULATE. PAINT INSIDE OF R/A OR EXHAUST GRILLES FLAT BLACK.
- 12"x12" INTAKE LOUVER W/INSECT SCREEN, AND RUSKIN ELF3750. COLOR TO BE ALUMINUM.
- ROUND DUCT COLLAR WITH 1HR RATED FIRE DAMPER AND 24"x24" ACCESS PANEL FOR MAINTENANCE PURPOSES.
- FURNISH AND INSTALL 30"x36" FILTER BACK LOUVER IN DOOR TO MECHANICAL ROOM, SEAL RETURN AIR PLENUM AS REQUIRED.
- FURNISH AND INSTALL DUCTED RETURN PLENUM TO FILTER BACK RETURN AIR GRILLE.
- TERMINATE 4 - 3/4" CONDENSATE LINES INTO 3" OPEN HUB DRAIN.

## MECHANICAL LEGEND

	NEW SUPPLY DUCT		VOLUME DAMPER/BALANCING DAMPER
	NEW EXHAUST DUCT		4-WAY DIFFUSER UNLESS OTHERWISE NOTED.
	NEW FRESH AIR DUCT		EXHAUST FAN / ROOF CURB / BACK DRAFT DAMPER
	THERMOSTAT		EXHAUST GRILLE
	FIRE DAMPER		DUCT OFFSET
	SWITCH W/ TIMER		ONE HOUR, FIRE DAMPER WITH ACCESS DOOR IN DUCT AND CEILING
	AIR CONDITIONER		EXHAUST FAN
	CONDENSING UNIT		ACCESS PANEL
	MOTORIZED DAMPER		CONDENSATE PIPE



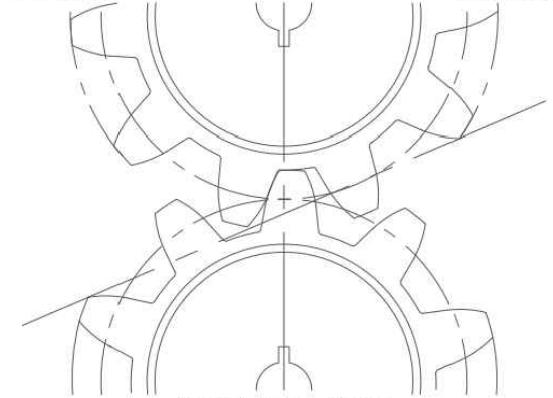
Job Title:

Office of the State  
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Seal:

May 15, 2026

Construction Documents

No.	Description	Date

KEY PLAN

FIRST FLOOR  
HVAC PLAN

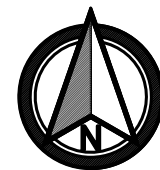
Project No.: BL0001-25

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FIRST FLOOR HVAC PLAN

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