## MECHANICAL GENERAL NOTES

- TOTAL STATIC PRESSURE NOTES IN THE SCHEDULES INCLUDED DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC. LOSS FOR FILTERS SHALL BE FOR FILTERS AT 50% LOADING.
- POSSIBLE WHILE ADHERING AS CLOSELY TO THE DRAWINGS AS POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL INSTALLATION WITH THE WORK OF OTHER TRADES. FIELD MODIFICATIONS SUCH AS OFFSETS IN PIPING OR DUCTWORK NEEDED DUE TO OBSTRUCTIONS OR INTERFERENCES SHALL BE PROVIDED AT NO ADDITIONAL COST.
- 5. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER WITHIN STANDARD OF CARE FOR PROFESSION. ALL LABOR, MATERIAL, TOOLS, PERMITS, INSPECTIONS, TESTING, CERTIFICATION, ETC. REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION TO DESIGN INTENT SHALL BE FURNISHED BY CONTRACTOR. PROVIDE, AT NO ADDITIONAL COST, INCLUDING INCIDENTAL ITEMS NOT SHOWN WHEN REQUIRED FOR TYPICAL COMPLETION OF WORK.
- PURPOSES ARE OF THE LATEST REVISION AVAILABLE AND ALL ADDENDUM DOCUMENTS HAVE BEEN INCORPORATED EITHER BY REVISION RELEASE OF DRAWINGS/SPECIFICATIONS OR ATTACHMENT OF SKETCHES OR OTHER ADDENDUM INFORMATION.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
- ALL EQUIPMENT WHICH IS INDICATED TO BE FURNISHED AND/OR INSTALLED BY OTHERS OR BY OWNER IS INCLUDED FOR REFERENCE ONLY UNLESS NOTED OTHERWISE. DESIGN OF MECHANICAL SYSTEMS IN THESE AREAS IS BASED ON INFORMATION TO THE ATTENTION OF THE ENGINEER.
- 9. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- STANDARD CLASS A.
- REQUIRED TO PROVIDE A VIBRATION-FREE, RIGID INSTALLATION.
- NET FREE FACE AREA IS MAINTAINED.
- 14. CONTRACTOR SHALL PROVIDE ALL AUTOMATIC TEMPERATURE CONTROLS INCLUDING WIRING, THERMOSTATS AND ALL MISCELLANEOUS APPURTENANCES TO MEET THE INTENT OF THESE DOCUMENTS.
- 15. PENETRATIONS OF WALLS OR FLOORS FOR THE PASSAGE OF PIPING, DUCTWORK, OR OTHER EQUIPMENT SHALL BE PROPERLY SEALED AFTER INSTALLATION OF ITEMS AND EQUIPMENT.
- 16. PIPING, DUCTWORK, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO ELECTRICAL SWITCHBOARDS, TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC-110.26.

1. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZED ARE NET INSIDE DIMENSIONS.

3. ALL DUCT AND PIPE ROUTING AND CONSTRUCTION SHOWN ON THE DRAWINGS IS DIAGRAMMATIC IN NATURE AND MAY NOT BE SHOWN IN EXACT LOCATIONS OR WITH ALL ANCILLARY ITEMS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. CONTRACTOR SHALL COORDINATE ROUTING OF ALL DUCTWORK AND PIPING PER TYPICAL CONSTRUCTION PRACTICE IN THE MOST EFFICIENT WAY

DRAWINGS NOT BEARING THE STAMP OR SEAL AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES UNLESS EXPRESSLY APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL DRAWINGS AND SPECIFICATIONS BEING USED FOR BIDDING AND CONSTRUCTION

MANUFACTURERS. NO EQUIPMENT SUBSTITUTIONS SHALL BE MADE THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICE SPACE. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES

AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING INSTALLATION REQUIREMENTS OF THIS EQUIPMENT WITH THE APPLICABLE SUPPLIER OR THE OWNER. ANY DISCREPANCIES SHALL BE BROUGHT

10. DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION

11. ALL EQUIPMENT, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED AND/OR SPECIFIED. PROVIDE ADDITIONAL SUPPORTS AS

12. DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. DIMENSIONS MAY BE CHANGED SO LONG AS THE

13. EXHAUST DUCTS SHALL TERMINATE IN ACCORDANCE WITH ASHRAE 170-2013 AND BE EQUIPPED WITH A BACKDRAFT DAMPER.

PANELBOARDS, DISTRIBUTION BOARDS, OR MOTOR CONTROL CENTERS SHALL NOT BE INSTALLED WITHIN THE REQUIRED SPACE FOR WORKING CLEARANCES OR DEDICATED SPACES OF THE ELECTRICAL EQUIPMENT, EXTENDING IN FRONT OF AND FROM FLOOR

	LEGEND		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIF
	EXISTING EQUIPMENT TO BE DEMOLISHED		BALL VA
	EXISTING EQUIPMENT TO REMAIN	$-\!-\!$	GATE VA
	NEW EQUIPMENT	——I[i——	BUTTER
	NEW EXHAUST AIR DUCTWORK		BUTTER
	EXSITING DUCTWORK	&	OS & Y (
	NEW CHILLED WATER SUPPLY (CHS) PIPING		GLOBE \
	NEW CHILLED WATER RETURN (CHR) PIPING	$\neg \neg \neg \neg$	CHECK
	NEW HEATING WATER SUPPLY (HWS) PIPING	<b> </b> <Ì	CHECK
	NEW HEATING WATER RETURN (HWR) PIPING	<u> </u>	STRAINE
	NEW NATURAL GAS (NG) PIPING	<b>⊢</b>	UNION
	EXISTING PIPING		CONTRO
	POINT OF CONNECTION TO EXISTING		CONTRO
$\blacklozenge$	POINT OF DEMOLITION	+0	ELBOW
$\bigwedge$	REVISION DELTA		ELBOW RISE OF
MBD <b>H</b>	MANUAL BALANCING DAMPER	t	TEE, SI
	STREAMLINE CONNECTION (RECT. TO ROUND)		
$\overline{}$	STREAMLINE CONNECTION (RECT. TO RECT.)		TEE, Ol
	STREAMLINE CONNECTION WITH MANUAL VOLUME DAMPER (RECT. TO ROUND)		TEE, Ol
X ####	GRILLE DESIGNATION ( GRILLE SCHEDULE DESIGNATION / CFM AIRFLOW )	]	CAPPE
$\sim$	SINGLE LINE CONTINUATION		
t	AIR FLOW ARROW		
EA	EXHAUST AIR DUCT		
CFM	CUBIC FEET PER MINUTE		
Ø	ROUND DIAMETER		

RIPTION

VALVE

VALVE

TERFLY VALVE (LEVER HANDLE)

TERFLY VALVE (GEAR OPERATOR) Y GATE VALVE

E VALVE K VALVE (SWING CHECK)

K VALVE (BUTTERFLY CHECK) AINER W/ DRAIN VALVE

TROL VALVE (2-WAY) ELECTRIC

ITROL VALVE (3-WAY) ELECTRIC

BOW, TURNED UP BOW, TURNED DOWN

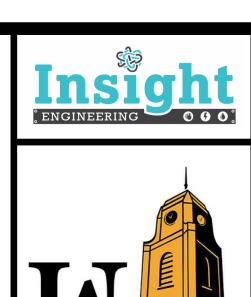
E OR DROP IN PIPE

SIDE CONNECTION

OUTLET UP

OUTLET DOWN

PED PIPE



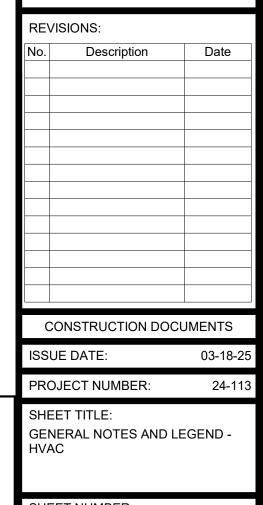
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