

GENERAL NOTES

DEMOLITION

EXISTING HVAC PIPING, DUCTWORK, AND EQUIPMENT SHOWN IS BASED ON EXISTING PLANS AND FIELD OBSERVATION WITHOUT DEMOLITION. AFTER DEMOLITION, ANY CLARIFICATION REQUIRED TO DETERMINE SCOPE OF WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS.

DRAWINGS DO NOT SHOW EVERY EXISTING PIPE, CONDUIT, DUCT, ETC. CONTRACTOR SHALL TAKE CARE TO REMOVE ONLY ITEMS REQUIRED TO BE REMOVED AND VERIFY PIPES, DUCTS, ETC. BEFORE REMOVAL.

REMOVAL OF ITEMS SHALL INCLUDE ASSOCIATED HANGERS, ANCHOR BOLTS AND OTHER APPURTENANCES. WHERE SUCH REMOVAL RESULTS IN OPEN HOLES, YARDS OR EXPOSURE OF DAMAGED SURFACES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND FINISHING THE SURFACE TO MATCH ADJACENT CONDITIONS.

THE BUILDING IS TO REMAIN OCCUPIED DURING CONSTRUCTION. REMOVE OR SHUT-DOWN EXISTING EQUIPMENT AND SYSTEMS AS REQUIRED TO ACCOMMODATE NEW INSTALLATIONS. ONLY BE DONE AS APPROVED OR TEMPORARY AIR CONDITIONING OR HEATING SHALL BE PROVIDED AT CONTRACTOR'S EXPENSE. THIS MAY REQUIRE NIGHT AND WEEKEND WORK TO KEEP BUILDING IN OPERATION.

REMOVE EXISTING DUCTWORK AND PIPING NOT TO BE REUSED.

ALL MATERIALS REMOVED UNDER DEMOLITION, NOT TO BE RELOCATED OR REINSTATED TO BE TURNED OVER TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND SHALL BE REMOVED COMPLETELY FROM THE SITE.

GENERAL ITEMS

GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH HVAC DRAWING OF THIS SET. SEE EACH DRAWING FOR SPECIFIC NOTES APPLICABLE TO THAT DRAWING.

COORDINATE THAT OUTSIDE AIR INTAKE OPENINGS FOR VENTILATION AIR ARE LOCATED AT LEAST 25 FEET MEASURED IN ANY DIRECTION FROM ANY FILES, VENTS, CHIMNEYS, GAS METERS, GAS REGULATOR, FLOWING VENTS UNLESS TOP OF SUCH INTAKE OPENING IS TO FEET BELOW ANY OF THE LISTED ITEMS.

OVERHEAD PIPING IN SPACES WITHOUT HUNG CEILINGS SHALL BE RUN AS CLOSE TO STRUCTURE AS PRACTICAL, AND ABOVE LIGHTING FIXTURES TO CONCEAL PIPING.

OVERHEAD PIPING IN SPACES WITH CEILINGS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

PROVIDE PIPE SLEEVES LARGE ENOUGH TO ALLOW FOR REQUIRED LATERAL MOVEMENT OF PIPING.

EXERCISE DUE CAUTION IN INSTALLING REMOVALS AND BRANCH PIPING FROM MAINS FOR EXPANSION WORKITEM.

EQUIPMENT ON THE ROOF SHALL BE INSTALLED SO AT LEAST 10 FEET OF CLEARANCE SHALL BE MAINTAINED BETWEEN EQUIPMENT AND THE ROOF EDGE.

ARRANGE PIPING AND DUCTWORK PARTICULARLY AROUND CEILING AS REQUIRED TO CLEAR STRUCTURE ACCESS. PROVIDE SUFFICIENT CLEARING SPACE FOR PIPING, EXPANSION LOOPS AND ACCESS TO VALVES, FILTERS, AND MAINTENANCE OF EQUIPMENT.

EQUIPMENT WITH FILTERS SHALL BE INSTALLED SO THAT FILTERS CAN BE EASILY REMOVED AND REPLACED.

COORDINATE LOCATION AND INSTALLATION OF EQUIPMENT WITH OTHER TRADES.

DO NOT SCALE DRAWINGS. FIELD VERIFY EXACT LOCATIONS OF DOORS, WINDOWS, ETC. PIPING, DUCTWORK, VENTS, ETC. EXTENDING THROUGH EXTERIOR WALLS AND ROOF SHALL BE FLASHED AND COUNTER-FLASHED IN A WEATHERPROOF MANNER.

VALVES AND SPECIALTIES SHALL BE LINE SIZE EXCEPT FOR CONTROL VALVES OR UNLESS NOTED OTHERWISE.

EXTEND DRAIN LINES TO NEAREST FLOOR DRAIN OR AS INDICATED. ROUTING SHALL NOT INTERFERE WITH PASSAGEWAYS AND MAINTENANCE. DRAINS FROM AIR CONDITIONING CONDENSATE DRAIN PANS SHALL BE TRAPPED. SLOPE CONDENSATE DRAIN PIPING AT 1/4" PER FOOT.

PIPING INSULATION SHALL BE R10 CONTINUOUSLY THROUGH NON-RATED FLOORS, WALLS, ROOF AND PARTITIONS, UNLESS OTHERWISE INDICATED.

NO PIPING SHALL BE SMALLER THAN 3/4" UNLESS OTHERWISE NOTED.

RUNDOUTS SHALL PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF 1" IN 3'.

FOR PIPE SIZES NOT INDICATED ON PLANS, SEE EQUIPMENT CONNECTION DETAILS, FLOW DIAGRAMS AND RISER DIAGRAM AND PIPE SIZING SCHEDULE.

PROVIDE UNION OR FLANGED CONNECTIONS AT EACH PIECE OF EQUIPMENT AND ON BOTH SIDES ON CONTROL VALVES AND PRESSURE REGULATING VALVES. PROVIDE SHUT-OFF VALVES ON BOTH SIDES OF AUTOMATIC VALVES.

RELIEF VALVE PIPING SHALL BE EXTENDED TO THE NEAREST FLOOR DRAIN.

FLOOR MOUNTED EQUIPMENT IN THE MECHANICAL ROOMS SHALL BE LOCATED ON 4" THICK CONCRETE HOUSEKEEPING PADS UNLESS OTHERWISE INDICATED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL SUPPORTS OR HANGERS SHALL BE ADJACENT TO ELBOWS, TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT.

CORRECT SETTING ON BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.

SIZE STEEL SUPPORT FOR MECHANICAL EQUIPMENT IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED.

FOR LOCATION OF MOTOR STARTERS, SEE ELECTRICAL DRAWINGS.

GLYCOL AND CHILLED WATER PIPING

PROVIDE MINIMUM PITCH SUFFICIENT TO INSURE ADEQUATE VENTING AND DRAINAGE.

PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF SYSTEM.

PROVIDE 3/4" BALL VALVES WITH HOSE-END CAPPED CONNECTIONS AT LOW POINTS IN PIPING SYSTEMS FOR DRAINS.


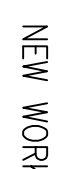





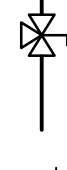
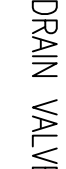




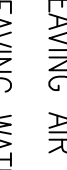

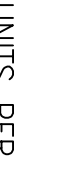
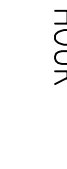






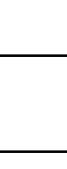

DO NOT USE GATE VALVES. USE BALL & BUTTERFLY VALVES FOR SHUTOFF SERVICE.

MISCELLANEOUS CONTRACTOR NOTES

DUST CONTROL BARRIER MUST BE FIRE-RATED. SEE SPEC. SECTION 011010.

ALL WORK IMPLICATING THE OPERATION OF THE O.R. SUITE, INCLUDING HVAC SHUTDOWN FOR MECHANICAL & ELECTRICAL WORK, MUST BE COORDINATED & APPROVED BY THE RESIDENT ENGINEER. SUCH WORK SHALL BE PERFORMED DURING OFF-HOURS.

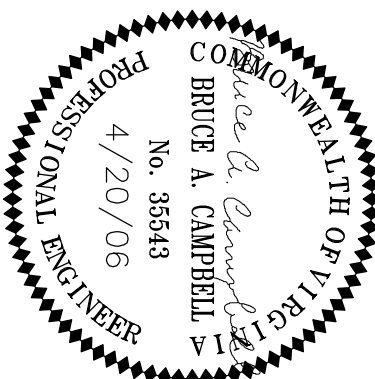
LEGEND and ABBREVIATIONS

	DEMOLITION NOTE DESIGNATION		NEW WORK NOTE DESIGNATION
	POINT OF CONNECTION NEW TO EXISTING		POINT OF CONNECTION LIMIT
	SECTION		SHEET WHERE SECTION IS SHOWN
	SHEET WHERE SECTION IS CUT		AIR COOLED CHILLER DESIGNATION
	AIR HANDLING UNIT DESIGNATION		AIR SEPARATOR DESIGNATION
	TRAP		STRAINER
	BLowDOWN VALVE		UNION
	FLEXIBLE PIPE CONNECTOR		PRESSURE GAUGE W/ GAUGE COCK
	THERMOMETER		MANUAL AIR VENT
	PIPE TURNING UP		PIPE TURNING DOWN
	DIRECTION OF FLOW		CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING		CONDENSATE DRAIN
	GLYCOL SUPPLY PIPING		GLYCOL RETURN PIPING
	HOT WATER SUPPLY PIPING		HOT WATER RETURN PIPING
	LOW PRESSURE STEAM PIPING		LOW PRESSURE CONDENSATE
	MEDIUM PRESSURE STEAM PIPING		MEDIUM PRESSURE CONDENSATE
	DOMESTIC COLD WATER (CM)		1 HOUR FIRE RATED WALL
	2 HOUR FIRE RATED WALL		SMOKE PARTITION
	PIPING TO BE REMOVED		

A.F.F.	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
APPROX.	APPROXIMATELY
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
EL.	ELEVATION
ENT	ENTERING WATER TEMPERATURE
ETR	EXISTING TO REMAIN
ESP	EXTERNAL STATIC PRESSURE
FLA	FULL LOAD AMPS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MIN CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAX OVERCURRENT PROTECTION
O.A.	OUTSIDE AIR
P.D.	PRESSURE DROP
RPW	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
U.O.N.	UNLESS OTHERWISE NOTED
Ø	PHASE/DIAMETER
°	DEGREE FAHRENHEIT
°C	DEGREE CELSIUS
⇄	FLAT OVAL

CHILLER FOR O.R. SUITE AIR-HANDLING UNIT

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APPROVED BY VISION 4 SAFETY OFFICER	APPROVED BY INFECTION CONTROL OFFICER
	APPROVED BY CHIEF OF STAFF
	APPROVED BY CENTER DIRECTOR

NO.	REVISIONS	DATE

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