ABBREVIATIONS

A.C.D.	AUTOMATIC CONTROL DAMPER
A.F.F.	ABOVE FINISHED FLOOR
A.G.	ABOVE GRADE
A.P.D.	AIR PRESSURE DROP
B.D.	BALANCING DAMPER
B.D.D.	BACKDRAFT DAMPER
B.F.	BARRIER FREE
BTUH	BRITISH THERMAL UNIT PER HOUR
B.V.	BALANCING VALVE
C.B.	CATCH BASIN
C.B.V.	CALIBRATED BALANCING VALVE
C.F.H.	CUBIC FEET PER HOUR
C.F.M.	CUBIC FEET PER MINUTE
C.H.	CABINET HEATER
C.I.	CAST IRON
C.M.	CEILING MOUNTED
C.O.	CLEAN OUT
C.V.	CONTROL VALVE
C.W.	COLD WATER (DOMESTIC)
D.F.	DRINKING FOUNTAIN
DN.	DOWN
D.S.	DOWN SPOUT
E.A.	EXHAUST AIR
E.A.T.	ENTERING AIR TEMPERATURE
E.D.B.	ENTERING DRY BULB
E.F.	EXHAUST FAN
E.S.P.	EXTERNAL STATIC PRESSURE
E.W.B.	ENTERING WET BULB
E.W.C.	ELECTRIC WATER COOLER
E.W.T.	ENTERING WATER TEMPERATURE
EXIST.	EXISTING
E.T.R.	EXISTING TO REMAIN
F.C.	FLEXIBLE CONNECTION
F.D.	FLOOR DRAIN
(FD)	FIRE DAMPER
F.H.C.	FIRE HOSE CABINET
F.I.	FIELD INSTALLED
F.M.	FLOOR MOUNTED
F.P.M.	FEET PER MINUTE
F.R.	FIN RADIATION
G.P.M.	GALLONS PER MINUTE
H.B.	HOSE BIBB
HP	HORSE POWER
H.W.	HOT WATER SUPPLY (DOMESTIC)
H.W.R.	HOT WATER RETURN (DOMESTIC)
I.E.	INVERT ELEVATION
L.A.T.	LEAVING AIR TEMPERATURE
LAV.	LAVATORY
L.D.B.	LEAVING DRY BULB
LOUV.	LOUVER
L.W.B	LEAVING WET BULB
L.W.T.	LEAVING WATER TEMPERATURE
M.A.	MIXED AIR
M.A.T.	MIXED AIR TEMPERATURE
MAX.	MAXIMUM
M.B.	MOP BASIN
MBH	BRITISH THERMAL UNIT PER HOUR (THOUSANDS)
MFR.(S)	MANUFACTURER(S)
M.H.	MANHOLE
MIN.	MINIMUM
MTG.	MOUNTING
M.V.	MANUAL AIR VENT
N.C.	NORMALLY CLOSED
N.F.W.H.	NON-FREEZE WALL HYDRANT
N.I.C.	NOT IN CONTRACT
N.O.	NORMALLY OPEN
O.A.	OUTSIDE AIR
O.A.I.	OUTSIDE AIR INTAKE
OCT.	OCTAVE
P.A.	PIPE ANCHOR
P.D.	PRESSURE DROP
P.I.V	POST INDICATOR VALVE
P.R.V.	PRESSURE REDUCING VALVE
P.T.	PRESSURE / TEMPERATURE TAPPING
R.A.	RETURN AIR
R.D.	ROOF DRAIN
R.H.	RELATIVE HUMIDITY
R.I.O.	ROUGH IN ONLY
R.P.M.	REVOLUTIONS PER MINUTE
RPPBP	REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER
R.V.	RELIEF VALVE
S.A.	SUPPLY AIR
S.C.W.	SOFT COLD WATER (DOMESTIC)
SENS.	SENSIBLE
SHWR.	SHOWER
SK.	SINK
S.O.V.	SHUT-OFF VALVE
S.P.	STATIC PRESSURE
S.SK.	SERVICE SINK
TEMP.	TEMPERATURE
TOT.	TOTAL
T.R.	TEMPERATURE RISE
T.S.	TIP SPEED
T.S.P.	TOTAL STATIC PRESSURE
T.U.	TERMINAL UNIT BOX
T.W.C.	TEPID WATER CONNECTION
U.H.	UNIT HEATER
URN.	URINAL
V.	VENT
VEL.	VELOCITY
V.I.	VIBRATION ISOLATORS
V.I.F.	VERIFY IN FIELD
V.S.	VENT STACK
V.T.R.	VENT THRU ROOF
W.	WASTE
W.C.	WATER CLOSET
W.M.	WALL MOUNTED
W.P.D.	WATER PRESSURE DROP
W.SK.	WASH SINK

CONTROL SYMBOLS

(F)	FREEZE STAT
[M]	MOTORIZED ACTUATOR
(HS)	HUMIDITY SENSOR
(TS)	TEMPERATURE SENSOR
(CO2)	CARBON DIOXIDE SENSOR
(DP)	DIFFERENTIAL PRESSURE SENSOR
(AS)	AIRFLOW SENSOR
(MS)	MOISTURE SENSOR
(DS)	DUCT SMOKE SENSOR

MECHANICAL SYMBOLS

	BALANCING VALVE
	CAP
	CHECK VALVE
	COLD WATER (DOMESTIC)
CD	CONDENSATE DRAIN
	FIRE DAMPER (HORIZONTAL)
	FIRE DAMPER (VERTICAL)
	FIRE/SMOKE DAMPER
FD	FOOTING DRAIN
G	GAS
	GAS COCK
	HOT WATER RETURN (DOMESTIC)
	HOT WATER SUPPLY (DOMESTIC)
	PIPE BREAK
	PIPE ELBOW DOWN
	PIPE ELBOW UP
	PIPE TEE DOWN
	PIPE TEE UP
	PRESSURE GAUGE
	PRESSURE RELIEF VALVE
	PUMP IN LINE
	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
RL	REFRIGERANT LINE (LIQUID)
SL	REFRIGERANT LINE (SUCTION)
SAN	SANITARY SEWER (ABOVE FLOOR)
SAN	SANITARY SEWER (BELOW FLOOR)
	SHUT-OFF VALVE
	SMOKE DAMPER
SF	STORM SEWER (ABOVE FLOOR)
ST (OF)	STORM SEWER (OVERFLOW SYSTEM)
ST	STORM (BELOW FLOOR)
	STRAINER
	TEMPERATURE SENSOR
	THERMOMETER
	THERMOSTAT
	UNION
V	VENT

DUCTWORK COLOR LEGEND

DUCTWORK SINGLE WALL	NOTE: INSULATION AND LINING AS SPECIFIED AND SHOWN ON DETAILS.
DUCTWORK LINED	NOTE: DIMENSIONS ARE NET CLEAR INSIDE
DUCTWORK DOUBLE-WALL	NOTE: DIMENSIONS ARE NET CLEAR INSIDE
LOWER PRESSURE SUPPLY AIR	
MEDIUM PRESSURE SUPPLY AIR	
EXHAUST AIR	
OUTSIDE AIR	
RETURN AIR	

GENERAL NOTES - MECHANICAL - NEW CONSTRUCTION

1 COORDINATE ALL WORK WITH OWNER'S ACTIVITIES WITHIN WORK ZONES SHOWN. ANY INTERRUPTION OF EXISTING BUILDING ACTIVITIES, SERVICES, AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER, SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION. ALL WORK THAT IMPACTS LIFE SAFETY IS TO BE DONE DURING NON-BUSINESS HOURS.

2 DOCUMENT AND TAKE PHOTOS OF AREAS PRIOR TO CONSTRUCTION AND COORDINATE REPLACEMENT OF ALL DAMAGED FINISHES AFTER CONSTRUCTION TO MATCH EXISTING.

3 THESE DRAWINGS ARE DIAGRAMMATIC, INDICATING THE GENERAL EXTENT OF THE WORK, AND SHOULD NOT BE CONSIDERED FABRICATION DRAWINGS. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.

4 CONTRACTORS SHALL COMPLETELY FILL IN AND SUBMIT TO THE ENGINEER WITHIN 24 HOURS AFTER TIME OF BIDDING THE FOLLOWING FORMS:
- SPECIFICATION '22 0000 – SUPPLEMENTARY PLUMBING INFORMATION'
- SPECIFICATION '23 0000 – SUPPLEMENTARY MECHANICAL INFORMATION'

5 WHERE A CONTRACTOR ELECTS TO PROVIDE PRODUCTS, MATERIALS, EQUIPMENT, AND METHODS OF CONSTRUCTION THAT DOES NOT MEET THE BASIS OF DESIGN REQUIREMENTS, THE CONTRACTOR MUST ADHERE TO THE FOLLOWING SUBSTITUTION REQUEST PROCEDURES:
- FOLLOW GENERAL CONTRACTORS RFI PROCESS FOR PROCUREMENT SUBSTITUTION PROCEDURES', FOR SUBSTITUTION REQUESTS PRIOR TO RECEIPT OF BIDS.
- FOLLOW GENERAL CONTRACTORS RFI PROCESS FOR SUBSTITUTION REQUESTS', FOR SUBSTITUTION REQUESTS FOLLOWING CONTRACT AWARD.

6 THE EXISTING SYSTEMS TO BE DEMOLISHED WERE TAKEN FROM EXISTING DRAWINGS AND FROM FIELD SURVEYS, AND ARE BELIEVED TO BE REASONABLY ACCURATE. VISIT THE SITE PRIOR TO SUBMISSION OF A PROPOSAL TO OBSERVE CONDITIONS FOR DEMOLITION.

7 INSTALLING CONTRACTOR TO COORDINATE AND INCLUDE, PATCHING OF ALL ABANDONED WALL, FLOOR, ROOF, OR CEILING PENETRATIONS. PATCH AND REPAIR ALL REMAINING WALLS, FLOORS, ROOFS, AND CEILINGS OPENED OR DAMAGED DURING DEMOLITION PROCESS TO A LEVEL ACCEPTABLE MATCHING EXISTING CONSTRUCTION TO RECEIVE NEW FINISHES.

8 INSTALLING CONTRACTOR SHALL CAREFULLY REMOVE AND DELIVER TO A DESIGNATED STORAGE AREA THOSE ITEMS OR MATERIALS SCHEDULED FOR RE-USE AT A LATER DATE.

9 INSTALLING CONTRACTOR TO LEAVE CONSTRUCTION AREA CLEAN UPON COMPLETION OF DEMOLITION WORK.

10 INSTALLING CONTRACTOR SHALL COORDINATE FINAL LOCATION AND INSTALLATION OF DUCTWORK, PIPING, AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION AND INSTALLATION OF ANY WORK. ALL REQUIRED OFFSETS AND ELEVATION CHANGES OF DUCTWORK AND PIPING WITHIN JOIST SPACING IS NOT SHOWN, AND IS REQUIRED TO BE COORDINATED WITH ALL TRADES. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL TESTING IS COMPLETED AND INSPECTION IS ACCEPTABLE.

11 ALL MECHANICAL EQUIPMENT IS TO BE INSTALLED SO THAT IT CAN BE READILY SERVICED AND REPLACED. PROVIDE AT A MINIMUM, CLEARANCES AS REQUIRED BY EQUIPMENT MANUFACTURER INSTALLATION AND CODE REQUIREMENTS. ALL MECHANICAL EQUIPMENT SHALL BE COORDINATED WITH ALL TRADES, TO ALLOW MECHANICAL EQUIPMENT TO BE REMOVED WITHOUT COMPLETE DISASSEMBLY BEYOND EQUIPMENT MANUFACTURER INSTALLATION AND MAINTENANCE REQUIREMENTS.

12 DUCTWORK AND PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS AND CONTROL PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT/PANELS AND CONTROL PANELS. DUCTWORK AND PIPING SHALL NOT INTERFERE WITH REQUIRED CLEARANCES.

13 INSTALLING CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL AND PLUMBING SYSTEMS. HANGING DEVICES, SUPPORTS, ANCHORS OR SIMILAR ATTACHMENTS SHALL NOT BE SUPPORTED DIRECTLY FROM METAL OR WOOD DECKS UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

14 INSTALLING CONTRACTOR SHALL REFER TO ARCHITECTURAL SECTIONS AND ELEVATIONS FOR DUCT AND PIPING COORDINATION WITH OTHER TRADES.

15 INSTALLING CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

16 INSTALLING CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED CONSTRUCTION REQUIRED TO HAVE DUCT AND PIPING PENETRATIONS PROTECTED TO MAINTAIN INDICATED RATING. COORDINATE WITH FIRE ALARM INSTALLER WHERE SMOKE DETECTORS ARE REQUIRED FOR SMOKE DAMPERS.

17 INSTALLING CONTRACTOR TO COORDINATE PIPE SIZES AVAILABLE FOR CONSTRUCTION. PROVIDE NEXT PIPE SIZE UP WHEN INDICATED PIPE SIZE IS UNAVAILABLE DURING CONSTRUCTION SCHEDULE.

18 INSTALLING CONTRACTOR SHALL COORDINATE GROUNDING OF PIPING SYSTEMS WITH ELECTRICAL CONTRACTOR.

19 COORDINATE ALL TEMPERATURE SENSOR LOCATIONS WITH "ELECTRICAL DEVICES ALIGNMENT GUIDELINES" DETAILED ON ELECTRICAL DRAWINGS.

20 INSTALLING CONTRACTOR TO PROVIDE MERV-8 FILTERS IN ALL AIR HANDLING EQUIPMENT LOCATED WITHIN THE CONSTRUCTION SITE, UNTIL CONSTRUCTION SITE ACTIVITIES HAVE ENDED.

21 INSTALLING CONTRACTOR TO PROVIDE MERV-8 FILTRATION ON ALL OPERATIONAL AIR HANDLING SYSTEM RETURN AIR GRILLES/OPENINGS, EXHAUST AIR GRILLES/OPENINGS, AND OUTSIDE AIR INTAKES LOCATED WITHIN THE CONSTRUCTION SITE, UNTIL CONSTRUCTION SITE ACTIVITIES HAVE ENDED.

22 INSTALLING CONTRACTOR TO PROTECT ALL EQUIPMENT COMBUSTION AIR INTAKES LOCATED WITHIN THE CONSTRUCTION SITE FROM DUST AND DEBRIS, UNTIL ALL CONSTRUCTION SITE ACTIVITIES HAVE ENDED.

23 NEW EQUIPMENT SHALL NOT BE USED FOR HEATING DURING CONSTRUCTION ACTIVITIES WITHOUT THE OWNER'S WRITTEN APPROVAL. INSTALLING CONTRACTOR TO COORDINATE AND RECEIVE A WRITTEN REPORT OF OPERATING CONDITIONS FOR EXISTING EQUIPMENT USED FOR HEATING DURING CONSTRUCTION ACTIVITIES, INSPECTED BY AN MANUFACTURER'S AUTHORIZED SERVICE REPRESENTATIVE, PRIOR TO OWNER'S WRITTEN APPROVAL.

GENERAL NOTES - MECHANICAL - DEMOLITION

1 ALL DUCTWORK, PIPING AND EQUIPMENT SHOWN DASHED SHALL BE REMOVED. PROTECT EXISTING WORK WHICH IS TO REMAIN IN PLACE FOR REUSE WITH TEMPORARY COVERS, SHORING, BRACING AND SUPPORTS. VERIFY LOCATIONS OF AND PROTECT EXISTING INTERIOR ELECTRICAL AND MECHANICAL UTILITIES AND SERVICES EXCEPT WHERE INDICATED OTHERWISE.

3 MODIFICATIONS TO THE ROOFING SYSTEM FOR DEMOLITION OR INSTALLATION OF NEW EQUIPMENT SHALL BE DONE IN A MANNER TO MAINTAIN OWNER'S ROOFING WARRANTY.

GENERAL NOTES - PLUMBING - CONSTRUCTION

1 PROVIDE WATER HAMMER ARRESTOR FOR EACH WATER CLOSET AND OTHER FAST CLOSING VALVES. IF MULTIPLE FIXTURES ARE TO BE PROTECTED WITH A SINGLE WATER HAMMER ARRESTOR, SIZING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR'.

NOTE:
NOT ALL SYMBOLS AND ABBREVIATIONS ARE APPLICABLE TO THE SCOPE OF WORK INDICATED ON SUBSEQUENT DRAWINGS. CONTRACTOR SHALL DETERMINE WHICH SYMBOLS AND ABBREVIATIONS ARE APPLICABLE TO THE SPECIFIC SCOPE OF WORK UPON REVIEWING THE PROJECT DRAWINGS AND SPECIFICATIONS.

THIS DRAWING SHEET IS INTENDED TO BE PLOTTED IN COLOR. IF THIS TEXT APPEARS IN BLACK AND WHITE, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

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