_					MECHANICAL SY (AS APP	MBOLS	S LEGEND
		PIPIN	G AND SPECIALTIES				
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	+	ELBOW
— RD—	REFRIGERANT DISCHARGE	— — PGR— —	PROPYLENE GLYCOL RETURN	— <u>©</u> —	INLINE PUMP	 	LONG RADIUS ELBOW
— RL —	REFRIGERANT LIQUID REFRIGERANT SUCTION	—— PGS—— — — FOR— —	PROPYLENE GLYCOL SUPPLY FUEL OIL RETURN	∳' ^{™∨}	AIR VENT - MANUAL	+ SR	SHORT RADIUS ELBO
— — CD— —	COIL CONDENSATE DRAIN	— FOS—	FUEL OIL SUPPLY	<u>——</u>	AIR VENT - AUTOMATIC		OHORT WIBIGO ELBO
— LPS (XX) ——	LOW PRESSURE STEAM (PRESSURE)	FOV	FUEL OIL VENT	<u>т</u> Гр		1 7	45° ELBOW
— MPS (XX) ——	MEDIUM PRESSURE STEAM (PRESSURE)	CR	CONDENSER WATER RETURN		FLOW SWITCH		TEE
— HPS (XX) ——	HIGH PRESSURE STEAM (PRESSURE)	cs	CONDENSER WATER SUPPLY	PS	PRESSURE SWITCH		CROSS
LPC	LOW PRESSURE CONDENSATE	— — HPWR — —	HEAT PUMP WATER RETURN	—O _{AS-}	AIR SEPARATOR	T X 	
- —MPC— — - —HPC— —	MEDIUM PRESSURE CONDENSATE HIGH PRESSURE CONDENSATE	— HPWS —	HEAT PUMP WATER SUPPLY	Q	THERMOMETER	1 7	LATERAL
PC	PUMPED CONDENSATE	<u> </u>	PITCH OF PIPE, RISE (R) OR DROP (D)	T TW	THERMOMETER WELL]+	TEE - SINGLE SWEEP
— ми——	MAKE-UP WATER		PIPE ANCHOR - MAIN				
HCR	HOT/CHILLED WATER RETURN		PIPE ANCHOR - INTERMEDIATE	<u> </u>	BALL JOINT		
— HCS—	HOT/CHILLED WATER SUPPLY	<u></u>	HANGER - ROD	PSD —	PUMP SUCTION DIFFUSER		
HWR	HEATING WATER CURRING		HANGER - SPRING		FLOAT THERMOSTATIC TRAP	$\langle \overline{X} \overline{X} \rangle$	EQUIPMENT IDENTIFIC
— HWS—— - — CWR— —	HEATING WATER SUPPLY CHILLED WATER RETURN		ALIGNMENT GUIDE	─ 	FLOWMETER - ORIFICE		DETAIL REFERENCE SHEET REFERENCE
— cws—	CHILLED WATER SUPPLY		FLEX CONNECTOR		FLOWMETER - VENTURI	TXX +	SHEET REFERENCE
-EGR	ETHYLENE GLYCOL RETURN		EXPANSION - LOOP	-8-	DUPLEX STRAINER		SECTION CUT REFERE SHEET REFERENCE
—EGS—	ETHYLENE GLYCOL SUPPLY	_ <u>_</u>	EXPANSION - JOINT				
							ELECTRICAL PANEL - COORDINATION PURF
			DUCTWORK				ELECTRICAL PANEL - COORDINATION PURF
>	SUPPLY, OUTSIDE OR MIXED AIR DUCT (UP)	10/6	RECTANGLE DUCT (WIDTH/HEIGHT)	$\angle \setminus \angle \setminus$	OPPOSED BLADE DAMPER		ELECTRICAL PANEL -
×	SUPPLY, OUTSIDE OR MIXED AIR DUCT (DOWN)	6 10Ø S	ROUND DUCT (DIAMETER)	ppppp	PARALLEL BLADE DAMPER		COORDINATION PURP
	SUPPLY, OUTSIDE OR MIXED AIR DUCT (SECTION)	10/6Ø	FLAT OVAL DUCT (WIDTH/HEIGHT)	FD 🛌	FIRE DAMPER (IN HORIZONTAL DUCT)		FOR COORDINATION F
	RETURN AIR DUCT (UP)		FLEXIBLE DUCTWORK TO EQUIPMENT	SD >	SMOKE DAMPER (IN HORIZONTAL DUCT)		
	RETURN AIR DUCT (DOWN)	++++++++	INSULATED FLEXIBLE DUCTWORK	FD ♦	FIRE DAMPER (IN VERTICAL DUCT)		IED 4: 5::
	RETURN AIR DUCT (SECTION)		ELEVATION CHANGE (RISE OR DROP)	SD �—	SMOKE DAMPER (IN VERTICAL DUCT)	GEN	<u>IERAL PLU</u>
	RELIEF OR EXHAUST AIR DUCT (UP)		HIGH EFF. TAKE OFF FITTING WITH VOLUME DAMPER	FSD 🍑	FIRE/SMOKE DAMPER (IN HORIZONTAL DUCT)	A.	CROSSHATCHING IN
[>]	RELIEF OR EXHAUST AIR DUCT (DOWN)	BD	DACKED AFT DAMBED	FSD 🔷	FIRE/SMOKE DAMPER (IN VERTICAL DUCT)		SHALL BE REMOVE
	RELIEF OR EXHAUST AIR DUCT (SECTION)		BACKDRAFT DAMPER	₹ □AD ₹	DUCT ACCESS PANEL	В.	DRAWINGS INDICAT
<u> </u>	ROUND DUCT (UP)	હ	TURNING VANES	₩ □RP ¥	RELIEF PANEL		MAJOR COMPONEN VALVES, ETC. CON
Ś	ROUND DUCT (DOWN)	v _□	VOLUME CONTROL DAMPER				PRIOR TO REMOVA
S	ROUND DUCT (SECTION)	CAP	VOLUME CONTROL DAMPER DUCT END CAP				RESPONSIBLE FOR LOCATED ON OR IN
	· ,						
			H.V.A.C.			C.	EXISTING INSULATION ACTIVITIES SHALL
Ā	SUPPLY DIFFUSER	ŪI_3	VAV TERMINAL UNIT	\bigcirc	THERMOSTAT		
•				\bigcirc_{G}	THERMOSTAT WITH GUARD		ALL OPENINGS THE SHALL BE PATCHE
\boxtimes	SUPPLY REGISTER		FAN POWERED VAV TERMINAL UNIT	⑤ ^{XX-X}	TEMPERATURE SENSOR - XX-X DENOTES SERVED		EXISTING.
<u> </u>	SUPPLY SLOT DIFFUSER	М	OLDE WALL DISELLOSED	© co	CARBON MONOXIDE SENSOR	E.	ALL OPENINGS THE
	RETURN REGISTER	Щ	SIDE WALL DIFFUSER	(S) _{CO2}	CARBON DIOXIDE SENSOR		WITH LIKE MATERIA
			ROUND DIFFUSER	(S) _{NOX}	NITROGEN DIOXIDE SENSOR		
	RETURN GRILLE		EXTERIOR LOUVER	S _H	HUMIDITY SENSOR		
\subseteq	EXHAUST REGISTER	Ų	EXTERIOR LOGVER	© _P	PRESSURE SENSOR	I GEN	NERAL HV
$\overline{\boxtimes}$	EXHAUST GRILLE	X CFM	SUPPLY IDENTIFICATION TAG X DENOTES TYPE	© _G	TEMPERATURE SENSOR WITH GUARD		
П		× M	RETURN/ EXHAUST/LOUVER IDENTIFICATION TAG	⊕ ⊕	HUMIDISTAT		CROSSHATCHING IN SHALL BE REMOVE
╬	DUAL DUCT TERMINAL UNIT	CFM IV	X DENOTES TYPE	H●	EMERGENCY SHUTDOWN SWITCH	В.	DRAWINGS INDICAT
		<u>M</u> -	MOTORIZED ACTUATOR				MAJOR COMPONEN
		 	PNEUMATIC ACTUATOR				VALVES, ETC. CON'
			PLUMBING				RESPONSIBLE FOR LOCATED ON OR IN
	DOMESTIC COLD WATER RIPING		A CID WASTE BELOW ELOOP OF CDADE	DΛ	DROCESSED AIR		EXISTING INSULATION
	DOMESTIC COLD WATER PIPING	= AW =-	ACID WASTE BELOW FLOOR OR GRADE	—— PA ——	PROCESSED AIR IRRIGATION PIPING		
	DOMESTIC COLD WATER PIPING DOMESTIC HOT WATER SUPPLY DOMESTIC HOT WATER RECIRC.	=	ACID WASTE BELOW FLOOR OR GRADE EXIST ACID WASTE BELOW FLOOR/GRADE ACID WASTE ABOVE FLOOR OR GRADE	—— PA —————————————————————————————————	PROCESSED AIR IRRIGATION PIPING TRAP PRIMER		ACTIVITIES SHALL
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			FITTINGS		
4	ELBOW	+++	ELBOW - DOUBLE BRANCH	\rightarrow	REDUCER - CONCENTRIC
\rightarrow	LONG RADIUS ELBOW	+9	ELBOW - SIDE OUTLET UP		REDUCER - ECCENTRIC STRAIGHT INVERT
† SR	SHORT RADIUS ELBOW	+9	ELBOW - SIDE OUTLET DOWN		REDUCER - ECCENTRIC STRAIGHT CROWN
×	45° ELBOW	- -	ELBOW - OUTLET DOWN]	CAPPED CONNECTION
+ .+.	TEE		ELBOW - OUTLET UP		THREADED CONNECTION
		-131-	TEE - OUTLET DOWN		FLANGED CONNECTION
++-	CROSS	-101-	TEE - OUTLET UP	+	STRAINER
*	LATERAL	,±,	TEE OUR OUT ET ROUM	100	STRAINER WITH BALL VALVE DRAIN
+	TTT 01101 T 011TTD	-151-	TEE - SIDE OUTLET DOWN	+	STRAINER WITH COUPLER
† .	TEE - SINGLE SWEEP	-1 0 1-	TEE - SIDE OUTLET UP	-D $-$	BUSHING
		→ >	SIAMESE CONNECTION	-	FLOW DIRECTION
		N	MISCELLANEOUS		
$\langle XX \rangle$	EQUIPMENT IDENTIFICATION TAG (ELECTRICAL CONNECTION REQUIRED)	•	NEW CONNECTION POINT	WC	WATER CLOSET
$\overline{\otimes}$	DETAIL REFERENCE		POINT OF DISCONNECT	UR	URINAL
	SHEET REFERENCE	OA	OUTSIDE AIR	L	LAVATORY
XX			VENTU ATION AID	S	SINK
<u> </u>	SECTION CUT REFERENCE	VA	VENTILATION AIR	DE	DRINKING FOUNTAIN
XX XX XX XX	SECTION CUT REFERENCE SHEET REFERENCE	VA EA	EXHAUST AIR	DF	DRINKING FOUNTAIN
<u>†</u>	SHEET REFERENCE			EWC	ELECTRIC WATER COOLER
<u>†</u>		EA	EXHAUST AIR	EWC SS	ELECTRIC WATER COOLER SERVICE SINK
X XX XX	SHEET REFERENCE ELECTRICAL PANEL - SHOWN FOR COORDINATION PURPOSES ONLY ELECTRICAL PANEL - SHOWN FOR	EA RA	EXHAUST AIR RELIEF OR RETURN AIR	EWC SS SH	ELECTRIC WATER COOLER SERVICE SINK SHOWER
<u>†</u>	SHEET REFERENCE ELECTRICAL PANEL - SHOWN FOR COORDINATION PURPOSES ONLY ELECTRICAL PANEL - SHOWN FOR COORDINATION PURPOSES ONLY	EA RA SA	EXHAUST AIR RELIEF OR RETURN AIR SUPPLY AIR	EWC SS SH DWH	ELECTRIC WATER COOLER SERVICE SINK SHOWER DOMESTIC WATER HEATER
X X X	SHEET REFERENCE ELECTRICAL PANEL - SHOWN FOR COORDINATION PURPOSES ONLY ELECTRICAL PANEL - SHOWN FOR	EA RA SA MA	EXHAUST AIR RELIEF OR RETURN AIR SUPPLY AIR MIXED AIR	EWC SS SH	ELECTRIC WATER COOLER SERVICE SINK SHOWER

GENERAL PLUMBING DEMOLITION NOTES

- A. CROSSHATCHING INDICATES EXISTING ITEMS AND ASSOCIATED MATERIALS SHALL BE REMOVED.
- DRAWINGS INDICATE APPROXIMATE ROUTING OF PIPING, DUCTWORK AND MAJOR COMPONENTS AND DO NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES, ETC. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND ROUTING PRIOR TO REMOVAL OR RELOCATION. CONTRACTOR SHALL ALSO BE
- C. EXISTING INSULATION DAMAGED DURING DEMOLITION / CONSTRUCTION ACTIVITIES SHALL BE REPAIRED WITH SIMILAR MATERIALS.

RESPONSIBLE FOR REMOVAL OF MISCELLANEOUS MECHANICAL ITEMS

- D. ALL OPENINGS THROUGH WALLS AND FLOOR SLABS NOT BEING REUSED SHALL BE PATCHED WITH LIKE MATERIALS AND PAINTED TO MATCH
- E. ALL OPENINGS THROUGH ROOF NOT BEING REUSED SHALL BE PATCHED WITH LIKE MATERIALS AND SEALED WATERTIGHT.

GENERAL HVAC DEMOLITION NOTES

LOCATED ON OR IN ANY WALLS TO BE REMOVED.

- CROSSHATCHING INDICATES EXISTING ITEMS AND ASSOCIATED MATERIALS SHALL BE REMOVED.
- B. DRAWINGS INDICATE APPROXIMATE ROUTING OF PIPING, DUCTWORK AND MAJOR COMPONENTS AND DO NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES, ETC. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND ROUTING PRIOR TO REMOVAL OR RELOCATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL OF MISCELLANEOUS MECHANICAL ITEMS LOCATED ON OR IN ANY WALLS TO BE REMOVED.
- C. EXISTING INSULATION DAMAGED DURING DEMOLITION / CONSTRUCTION ACTIVITIES SHALL BE REPAIRED WITH SIMILAR MATERIALS.
- D. ALL OPENINGS THROUGH WALLS AND FLOOR SLABS NOT BEING REUSED SHALL BE PATCHED WITH LIKE MATERIALS AND PAINTED TO MATCH
- ALL OPENINGS THROUGH ROOF NOT BEING REUSED SHALL BE PATCHED WITH LIKE MATERIALS AND SEALED WATERTIGHT.

GENERAL MECHANICAL NOTES

- A. LIGHT LINE WEIGHT INDICATES EXISTING ITEMS AND ASSOCIATED MATERIALS TO REMAIN. BOLD LINE WEIGHT INDICATES NEW WORK TO BE INSTALLED UNDER THIS CONTRACT.
- ROUTING INDICATED ON DRAWINGS IS APPROXIMATE AND DOES NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES, ETC. CONTRACTOR TO FIELD VERIFY DUCT SIZE AND SERVICE PRIOR TO FINAL CONNECTION. COORDINATE LOCATION OF HVAC WORK WITH LIGHTING, STRUCTURAL MEMBERS, PIPING SYSTEMS, ETC. PROVIDE OFFSETS AND CLEARANCES OR RELOCATE HVAC WORK AS REQUIRED TO AVOID CONFLICTS WITH WORK OF ALL OTHER TRADES.
- HVAC WORK SHALL NOT BE LOCATED OVER ELECTRICAL, DATA, OR COMMUNICATION EQUIPMENT ROOMS. HVAC WORK SHALL NOT BE LOCATED ABOVE ELECTRICAL / DATA / COMMUNICATION EQUIPMENT OR PANELS.
- SUPPORT ALL DUCTWORK, PIPING, EQUIPMENT, ETC. FROM BUILDING STRUCTURE. HOLD PIPING TIGHT TO BOTTOM OF STRUCTURAL MEMBERS OR RUN THROUGH JOIST WEBS IF POSSIBLE. DO NOT USE WIRE OR PERFORATED METAL TO SUPPORT PIPING. DO NOT SUPPORT PIPING FROM OTHER PIPING, DUCTWORK AND/OR ELECTRICAL CONDUITS. DO NOT SUPPORT FROM BOTTOM OF CHORD OF BAR JOIST OR FROM METAL ROOF DECK.
- . ALL DUCT SIZES SHOWN ARE CLEAR AIRWAY DIMENSIONS. INCREASE SHEET METAL SIZE TO ACCOMMODATE DUCT LINER AS REQUIRED.
- F. ELBOWS SHALL BE CONSTRUCTED WITH CENTERLINE RADIUS OF NOT LESS THAN 1-1/2 TIMES THE WIDTH OF DUCT. WHERE SPACE CONDITIONS DO NOT PERMIT THIS RADIUS OR WHERE INDICATED ON DRAWINGS SQUARE ELBOWS WITH TURNING VANES SHALL BE USED.
- G. SIZE TRANSITIONS WITH A MINIMUM SLOPE OF 1:4.

GENERAL MECHANICAL NOTES CONT.

- I. PROVIDE DRAW BANDS AND SEAL END OF DUCT INSULATION ON ALL FLEXIBLE CONNECTIONS. MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE THREE FEET.
- J. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SEALING PENETRATIONS THROUGH A FIRE RATED, SMOKE RATED OR COMBINATION FIRE & SMOKE RATED SEPARATIONS. SEE SPECIFICATIONS FOR FIRE & SMOKE RATED SEALANTS. SEE ARCHITECTURAL PLANS FOR RATED SEPARATIONS.
- K. COORDINATE ALL GRILLE, REGISTER AND DIFFUSER LOCATIONS WITH REFLECTED CEILING PLAN, LIGHT FIXTURES, SPRINKLER HEADS, COMMUNICATION/SOUND DEVICES AND FIRE ALARM DEVICES.
- L. INSTALL ESCUTCHEON PLATES ON ALL WALL PENETRATIONS SERVING ROUND DUCT WALL PENETRATIONS. FABRICATE ESCUTCHEON PLATES TO TRIM THE OPENING IN THE WALL.
- M. INSTALL WALL ANGLE FOR ALL RECTANGULAR DUCT PENETRATIONS THROUGH WALLS.
- N. FOR EXPOSED DUCTWORK THOROUGHLY CLEAN, REMOVE ALL SHIPPING LABELS AND OTHER IDENTIFICATION TAGS. DUCTWORK DESIGNATED TO BE PAINTED SHALL HAVE PHOSPHATIZED FINISH. PROVIDE MILL—PHOSPHATIZED FINISH FOR EXPOSED NOT DESIGNATED TO BE PAINTED. COORDINATE WITH ARCHITECTURAL DRAWINGS DUCTWORK DESIGNATED FOR PAINTING AND EXPOSED DUCTWORK REQUIREMENTS.
- O. PROVIDE DUCT MOUNTED ACCESS DOOR AT FIRE DAMPER, SMOKE DAMPER OR COMBINATION FIRE/SMOKE DAMPERS TO ALLOW FOR MAINTENANCE AND VISUAL INSPECTION PER NFPA REQUIREMENTS.
- P. VOLUME DAMPERS ABOVE INACCESSIBLE CEILINGS SHALL HAVE EXTENSION RODS AND ESCUTCHEON PLATES.
- Q. LOCATE AND INSTALL EQUIPMENT TO PROVIDE ALL CODE AND MANUFACTURER'S RECOMMENDED CLEARANCES. KEEP HVAC PIPING, DUCTWORK, ETC. OUT OF CLEARANCE AREAS.
- R. ALL OPENINGS IN WALLS AND FLOORS FOR PIPING SHALL BE CORE DRILLED OR SAW CUT, UNLESS OTHERWISE NOTED.
- S. ALL HVAC PIPING WORK SHALL BE LOCATED ABOVE CEILINGS, IN A PIPE CHASE, OR OTHER CONCEALED LOCATIONS, UNLESS OTHERWISE NOTED. LOCATE AND ARRANGE VALVES, DRAIN FITTINGS, ETC. TO BE ACCESSIBLE THROUGH LAY—IN CEILINGS, ACCESS PANELS OR ACCESS DOORS. PROVIDE ACCESS PANEL OR ACCESS DOOR FOR ALL VALVES, DRAIN FITTINGS, ETC. AT NON—ACCESSIBLE LOCATIONS.
- T. INSTALL SECTIONAL VALVES ON EACH BRANCH AND/OR RISER SERVING TWO OR MORE HYDRONIC TERMINALS OR EQUIPMENT CONNECTIONS. INSTALL VALVES ADJACENT TO MAIN.
- U. INSTALL SHUTOFF VALVES ON INLET AND OUTLET OF EACH MECHANICAL EQUIPMENT ITEM AND/OR EACH HYDRONIC TERMINAL.
- V. SLOPE HVAC PIPING TO DRAIN VALVES. PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND AT TOP OF RISERS.
- W. SEAL ALL HVAC PENETRATIONS. SEAL PENETRATIONS THROUGH RATED WALLS, FLOORS OR CEILINGS WITH MATERIALS APPROPRIATE FOR RATING.
- X. PIPING IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF BUILDING INSULATION AND VAPOR BARRIER.
- Y. COORDINATE INSTALLATION OF BUILDING INSULATION TO RUN CONTINUOUS BETWEEN PIPING AND EXTERIOR WALL SURFACE.
- Z. PVC PIPING SHALL NOT BE INSTALLED.
- AA. COORDINATE DUCTWORK WITH STRUCTURAL CROSS BRACING. PROVIDE TOP AND BOTTOM BRIDGING BETWEEN JOISTS WHERE DUCTWORK IS TO BE INSTALLED BETWEEN THE JOISTS. COORDINATE WITH ALL TRADES.

GENERAL PLUMBING NOTES

- A. LIGHT LINE WEIGHT INDICATES EXISTING ITEMS AND ASSOCIATED MATERIALS TO REMAIN. BOLD LINE WEIGHT INDICATES NEW WORK TO BE INSTALLED UNDER THIS CONTRACT.
- B. ROUTING INDICATED ON DRAWINGS IS APPROXIMATE AND DOES NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES, ETC. CONTRACTOR TO FIELD VERIFY PIPE SIZE AND SERVICE PRIOR TO FINAL CONNECTION. COORDINATE LOCATION OF PLUMBING PIPING WORK WITH LIGHTING, STRUCTURAL MEMBERS, HVAC, PIPING SYSTEMS, ETC. PROVIDE OFFSETS AND CLEARANCES OR RELOCATE PLUMBING WORK AS REQUIRED TO AVOID CONFLICTS WITH WORK OF ALL OTHER TRADES.
- C. PLUMBING WORK SHALL NOT BE LOCATED OVER ELECTRICAL, DATA OR COMMUNICATION EQUIPMENT ROOMS. PLUMBING WORK SHALL NOT BE LOCATED ABOVE ELECTRICAL / DATA / COMMUNICATION EQUIPMENT OR PANELS.
- D. SUPPORT ALL PLUMBING PIPING, EQUIPMENT, ETC. FROM BUILDING STRUCTURE. HOLD PIPING TIGHT TO BOTTOM OF STRUCTURAL MEMBERS OR RUN THROUGH JOIST WEBS IF POSSIBLE. DO NOT USE WIRE OR PERFORATED METAL TO SUPPORT PIPING. DO NOT SUPPORT PIPING FROM OTHER PIPING, DUCTWORK AND/OR ELECTRICAL CONDUITS. DO NOT SUPPORT FROM BOTTOM OF CHORD OF BAR JOIST OR FROM METAL ROOF DECK.
- E. ROUTE ABOVE GRADE DRAINAGE PIPING AS HIGH AS POSSIBLE AND COORDINATE WITH OTHER TRADES.
- F. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SEALING PENETRATIONS THROUGH A FIRE RATED, SMOKE RATED OR COMBINATION FIRE & SMOKE RATED SEPARATIONS. SEE SPECIFICATIONS FOR FIRE & SMOKE RATED SEALANTS. SEE ARCHITECTURAL PLANS FOR RATED SEPARATIONS.
- G. INSTALL ESCUTCHEON PLATES ON ALL WALL AND FLOOR PENETRATIONS SERVING EXPOSED PLUMBING PIPING WALL PENETRATIONS.
- H. ALL OPENINGS IN WALLS AND FLOORS FOR PIPING SHALL BE CORE DRILLED OR SAW CUT, UNLESS OTHERWISE NOTED.
- I. LOCATE AND INSTALL EQUIPMENT TO PROVIDE ALL CODE AND MANUFACTURER'S RECOMMENDED CLEARANCES. KEEP HVAC PIPING, DUCTWORK, ETC. OUT OF CLEARANCE AREAS.
- J. ALL PLUMBING PIPING WORK SHALL BE LOCATED ABOVE CEILINGS, IN A PIPE CHASE, OR OTHER CONCEALED LOCATIONS, UNLESS OTHERWISE NOTED. LOCATE AND ARRANGE VALVES, DRAIN FITTINGS, ETC. TO BE ACCESSIBLE THROUGH LAY—IN CEILINGS, ACCESS PANELS OR ACCESS DOORS. PROVIDE ACCESS PANEL OR ACCESS DOOR FOR ALL VALVES, DRAIN FITTINGS, ETC. AT NON—ACCESSIBLE LOCATIONS.
- K. INSTALL SECTIONAL VALVES ON EACH BRANCH AND/OR RISER SERVING TWO OR MORE PLUMBING FIXTURES OR EQUIPMENT CONNECTIONS. INSTALL VALVES ADJACENT TO MAIN.
- L. INSTALL SHUTOFF VALVES ON INLET AND OUTLET OF PLUMBING EQUIPMENT.

 M. INSTALL STOPS AT EACH PLUMBING FIXTURE EXCEPT AT FLUSHOMETER
- LOCATIONS.

 N. SEAL ALL PLUMBING PIPING PENETRATIONS. SEAL PENETRATIONS THROUGH
- RATED WALLS, FLOORS OR CEILINGS WITH MATERIALS APPROPRIATE FOR RATING.
- O. PIPING IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF BUILDING INSULATION AND VAPOR BARRIER.
- P. COORDINATE INSTALLATION OF BUILDING INSULATION TO RUN CONTINUOUS BETWEEN PIPING AND EXTERIOR WALL SURFACE.
- Q. COORDINATE EXACT LOCATION OF FLOOR DRAINS AND FLOOR SINKS. TOP OF GRATE SHALL BE 1/8" BELOW FINISHED FLOOR ELEVATION.
- R. COMPLY WITH LOCAL UTILITY COMPANY RULES AND REGULATIONS FOR ALL GAS METER INSTALLAIONS. COORDINATE EXACT LOCATION OF GAS CONNECTIONS WITH EQUIPMENT SUPPLIED.
- S. COPPER PIPING LOCATED ABOVE GRADE SHALL BE TYPE "L"; COPPER PIPING LOCATED BELOW GRADE SHALL BE TYPE "K" AND RUN CONTINUOUS WITHOUT JOINTS BELOW GRADE. TYPE "M" COPPER SHALL NOT BE USED ON
- PRESSURIZED PIPING SYSTEMS.

 T. DRAINAGE PIPING 3 INCHES AND SMALLER SHALL SLOPE NO LESS THAN 1/4
- INCH PER FOOT. DRAINAGE PIPING 4 INCHES AND LARGER SHALL SLOPE NO LESS THAN 1/8 INCH PER FOOT.
- U. INSTALL WALL CLEAN OUTS (<u>WCO</u>) WHEN LOCATED BEHIND A WATER CLOSET AT 30" A.F.F. OR AT 42" A.F.F. ABOVE CABINETRY ON ALL SANITARY & STORM STACKS.
- V. COORDINATE EXACT STORM PIPE CONNECTIONS WITH STORM DRAIN LOCATIONS SHOWN ON ARCHITECTURAL ROOF PLAN.
 W. INSTALL VENT-THRU-ROOF (VTR) A MINIMUM OF 10'-0" AWAY FROM ANY
- X. REMOVE, REPAIR AND REPLACE WALLS, FLOORS, ROOFS AND CEILINGS TO MATCH EXISTING, WHERE NECESSARY FOR PIPING AND FIXTURE REMOVAL &
- Y. KITCHEN EQUIPMENT FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR PLUMBING CONTRACTOR SHALL ROUGH—IN AND MAKE FINAL CONNECTIONS TO UTILITIES REQUIRED AND PROVIDE PIPING, STOPS, WATER HAMMER ARRESTERS, TRAPS AND FITTINGS FOR EQUIPMENT TO BE IN OPERATIONAL ORDER. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER FOR CONNECTIONS AND LOCATIONS. SEE KITCHEN EQUIPMENT CONNECTION SCHEDULE FOR RESPONSIBILITY OF WHO FURNISHES VACUUM BREAKERS AND PRESSURE
- Z. PVC PIPING SHALL NOT BE INSTALLED.

OUTSIDE AIR INTAKE.

REDUCING VALVES.

- AA. PROVIDE ACCESSIBLE SHUTOFF VALVE INSIDE THE BUILDING FOR EACH WALL HYDRANT.
- AB. CONTRACTOR SHALL COORDINATE ALL CONNECTIONS OF PLUMBING SYSTEMS WITH EXTERIOR SITE UTILITIES AND SERVICES PRIOR TO INSTALLING ANY PIPING ON THE INTERIOR. CONTRACTOR SHALL CONFIRM THAT ALL INTERIOR PIPE INVERTS AND PIPE INVERTS AT THE 5' LINE MATCH EXTERIOR PIPE INVERTS, PRIOR TO INSTALLING ANY INTERIOR PIPING BELOW FLOOR.

NOTICE:
DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SHOP AND OTHER APPROPRIATE DRAWINGS OR AT SITE. LAY OUT AND COORDINATE ALL WORK PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, AND CODES. VERIFY NON—INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCES FOR ALL TRADES. THIS NOTICE APPLIES TO ALL FARRIS ENGINEERING PLANS.



		CONSULTANT		ARCHITECT/EN	NGINEER OF RECORD	STAMP	Office of	General Mechanical Notes & Symbols	Phase BID DOCUMENTS	Project Title Second CT Scanner	Project Number 438-18-103
BID DOCUMENTS CONSTRUCTION DOCUMENTS 100% SUBMITTAL — UPDATE	10/10/2018 9/28/2018	Mechanical / Electrical Engineering: Farris Engineering 12700 W Dodge Road	Structural Engineering: Shaffer & Stevens, P.C. 9910 N 48th Street	A/E: CLH Architects 3705 N 200th St		WECHAN/CAME	Construction and Facilities	Legend		Site Prep Design	Building Number 5
NSTRUCTION DOCUMENTS 100% SUBMITTAL SIGN DEVELOPMENT 90% SUBMITTAL	9/7/2018 8/3/2018	Omaha, NE 68154	Omaha, NE 68152	Elkhorn, NE 68022	Calvin L. Hinz	BRIAN D. HOWELL	Management	Approved: Project Director		Location Sioux Falls, SD	Drawing Number
CHEMATIC DESIGN 36% SUBMITTAL 2 CHEMATIC DESIGN 35% SUBMITTAL	7/5/2018 6/6/2018	(402) 330-5900 Robert Hotovy	(402) 455-7698 Donn Shaffer	(402) 291-6941 Tim Werner	ARCHITECTS. P.C.	E-) ABOUTE OF NEBRASH THE THE THE THE THE THE THE THE THE TH	IIS Department		FULLY SPRINKLERED	Issue Date Checked Drawn	MG101
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