GENERAL MECHANICAL NOTES:

1. CONTRACTOR(S) SHALL PROVIDE ALL ITEMS, ARTICLES, EQUIPMENT, TOOLS, APPLIANCES, MATERIALS AND METHODS REQUIRED FOR COMPLETED SYSTEMS.
2. PROVIDE ALL LABOR, SCAFFOLDING, SUPPORTS, SUPERVISION AND INCIDENTALS REQUIRED TO MODIFY AND/OR INSTALL THE SYSTEMS COMPLETE.
3. CONTRACTOR(S) SHALL LOCATE AND PROTECT THE OWNER'S EQUIPMENT, PIPING AND UTILITIES SCHEDULED TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
4. ALL WORK SHALL BE EXECUTED IN A THOROUGHLY SUBSTANTIAL AND CRAFTSMAN LIKE MANNER BY SKILLED MECHANICS IN THE VARIOUS TRADES INVOLVED. FOLLOW MANUFACTURERS' INSTRUCTIONS FOR INSTALLING, CONNECTING AND ADJUSTING ALL EQUIPMENT.
5. CONTRACTOR(S) SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING ELEMENTS, EQUIPMENT, AND OTHER CONDITIONS HAVING A BEARING ON THE WORK. CONTRACTOR(S) SHALL COORDINATE WITH OTHER TRADES TO ELIMINATE ANY INTERFERENCES WITH LIGHTING FIXTURES, DUCTWORK, PIPING, ETC.
6. CONTRACTOR(S) SHALL PERFORM ALL VERIFICATIONS, OBSERVATIONS, TESTS, AND EXAMINATIONS OF THE WORK PRIOR TO THE ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION.
7. CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
8. CONTRACTOR(S) SHALL FURNISH AND INSTALL ALL MATERIALS AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL PARTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER SPECIFICALLY INDICATED OR NOT.
9. FOLLOW MANUFACTURERS' INSTRUCTIONS FOR INSTALLING, CONNECTING AND ADJUSTING ALL EQUIPMENT.
10. DRAWINGS ARE NOT TO BE SCALED. DRAWINGS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY.
11. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE OWNER PRIOR TO PROCEEDING WITH THE WORK.
12. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.

TYPICAL ABBREVIATIONS

AC	AIR CONDITIONING UNIT	HV	HEATING AND VENTILATING UNIT
AFF	ABOVE FINISH FLOOR	HW	HOT WATER
AFC	ABOVE FINISH CEILING	HWS	HOW WATER SUPPLY
AHU	AIR HANDLING UNIT	HWR	HOW WATER RETURN
AS	AIR SEPARATOR	LAV	LAVATORY
BOD	BOTTOM OF DUCT	LD	LINEAR CEILING DIFFUSER
BOT	BOTTOM	LBS/HR	POUNDS PER HOUR
BP	BOILER PUMP	MW	MAKE-UP WATER
CA	COMBUSTION AIR	MAX.	MAXIMUM
CBV	CIRCUIT BALANCING VALVE	MIN.	MINIMUM
CO	CLEAN OUT	MSK	MOP SINK
CP	CONDENSATE PUMP	NOM.	NOMINAL
CU	CONDENSING UNIT	OA	OUTDOOR AIR
CH	CABINET HEATER	P	PUMP(HVAC CIRCULATOR)
DF	DRINKING FOUNTAIN	PRV	PRESSURE REDUCING VALVE
DCWS	DOMESTIC COLD WATER SUPPLY	RA	RETURN AIR
DHWS	DOMESTIC HOT WATER SUPPLY	RF	RETURN FAN
DHWR	DOMESTIC HOT WATER RETURN	RH	RELATIVE HUMIDITY
DN	DOWN	S&R	SUPPLY AND RETURN
DW	DISHWASHER	SA	SUPPLY AIR
EA	EXHAUST AIR	SD	SMOKE DAMPER
EDH	ELECTRIC DUCT HEATER	SK	SINK
EER	ENERGY EFFICIENCY RATIO	SP	STATIC PRESSURE
EF	EXHAUST FAN	SUSP. CLG.	SUSPENDED CEILING
ERV	ENERGY RECOVERY VENTILATOR	S.S.	STAINLESS STEEL
ET	EXPANSION TANK	UH	UNIT HEATER
EUH	ELECTRIC UNIT HEATER	UV	UNIIT VENTILATOR
(E)	EXISTING	VD	VOLUME DAMPER
FC.	FLEXIBLE CONNECTION	UR	URINAL
FCU	FAN COIL UNIT	VFD	VARIABLE FREQUENCY DRIVE
FL.	FLOOR	V.T.R.	VENT TO ROOF
FD	FIRE DAMPER	S.G.	SUCTION GUIDE
FD/SD	FIRE SMOKE DAMPER COMBO	T.D.V.	TRIPLE DUTY VALVE
FTR	FIN TUBE RADIATION	N.C.	NORMALLY CLOSED
GEA	GREASE EXHAUST AIR	N.O.	NORMALLY OPEN
GF	GLYCOL FEEDER	WC	WATER CLOSET
HC	HEATING COIL		
HP	HORSEPOWER		

MECHANICAL & PLUMBING PIPING LEGEND:

	DOMESTIC COLD WATER SUPPLY PIPING
	DOMESTIC HOT WATER SUPPLY PIPING
	DOMESTIC HOT WATER RETURN PIPING
WASTE	SANITARY WASTE ABOVE SLAB PIPING
WASTE	SANITARY WASTE UNDER SLAB PIPING
SOIL	SANITARY SOIL PIPING
NG	NATURAL GAS PIPING
V	VENT
FD-x	FLOOR DRAIN
TMV-x	THERMOSTATIC MIXING VALVE

PLUMBING KEYED EQUIPMENT LEGEND:

WH X	WATER HEATER
RCP X	RECIRCULATION PUMP
SP X	SUMP PUMP
ET X	EXPANSION TANK

APPLICABLE CODES:

2020 PLUMBING CODE OF NEW YORK STATE
2020 FUEL GAS CODE OF NEW YORK STATE
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

BID PLANS

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PLUMBING COVER SHEET

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