



THE CONTRACTOR SHALL REMOVE THE EXISTING SUPERSTOR INDIRECT BOILER AND THE EXISTING ELECTRIC HOT WATER TANK AND ALL PIPING IN PLACE THAT IS NOT REQUIRED TO COMPLETE THE SCHEMATIC AS SHOWN. THE CONTRACTOR SHALL REMOVE ALL OF THE PIPING AND EQUIPMENT REMOVED FROM THE SITE AND DISPOSE OF PROPERLY. THE COMBUSTION AIR AND FLUE GAS VENTING SHALL DISCHARGE OUT THE SIDE WALL TO THE SOUTHEAST SIDE OF THE ENTRANCE.

LEGEND		KEY TO ABBREVIATIONS	
BLOCK	BLOCK DESCRIPTION	ABBREV.	DESCRIPTION
~	CONTINUED SYMBOL	AFF	ABOVE FINISHED FLOOR
↘	DIRECTION OF PITCH	AMP	AMPACITY
→	PIPE W/ DIRECTION OF FLOW	APD	AIR PRESSURE DROP
↑	PIPE UP	ATC	AUTOMATIC TEMPERATURE CONTROL
↓	PIPE DOWN	BD	BALANCING DAMPER
↔	PIPE CROSSOVER	BTU/H	BRITISH THERMAL UNITS/HOUR
⊥	PIPE TEE UP	CAP	CAPACITY
⊥	PIPE TEE DOWN	CH	CHILLED
⊥	PIPE END CAP	CHW	CHILLED WATER
⊥	PETES PLUG	C/HWR	CHILLED AND HOT WATER RETURN
+	UNION	C/HWS	CHILLED AND HOT WATER SUPPLY
⊥	GATE VALVE	CHWR	CHILLED WATER RETURN
⊥	OS&Y GATE VALVE	CHWS	CHILLED WATER SUPPLY
⊥	CHECK VALVE	COND	CONDENSATE DRAIN
⊥	2 WAY MOTORIZED VALVE	CONN	CONNECTION
⊥	3 WAY MOTORIZED VALVE	CONV	HOT WATER CONVECTOR
⊥	PRESSURE REDUCING VALVE	CP	CIRCULATOR PUMP
⊥	BACKFLOW PREVENTER	CW	COLD WATER, DOMESTIC
⊥	BOILER DRAIN	CWR	CONDENSER WATER RETURN
⊥	BALL <2-1/2" BUTTERFLY VALVE >2"	CWS	CONDENSER WATER SUPPLY
⊥	CIRCUIT SETTER	DB	DRY BULB
⊥	PRESSURE GAUGE	DEG	DEGREES
⊥	STRAINER	DN	DOWN
⊥	STRAINER W/ BLOW DOWN VALVE	DX	DIRECT EXPANSION
⊥	AIR SCOOP	EAT	ENTERING AIR TEMPERATURE
⊥	AUTOMATIC AIR VENT	EC	ELECTRICAL CONTRACTOR
⊥	MANUAL AIR VENT	EWT	ENTERING WATER TEMPERATURE
⊥	THERMOMETER	EER	ENERGY EFFICIENCY RATIO
⊥	BUCKET TRAP	ENT	ENTERING
⊥	CIRCULATOR PUMP	ERV	TOTAL ENERGY RECOVERY VENTILATOR
⊥	FIN TUBE RADIATION W/ COVER	ESP	EXTERNAL STATIC PRESSURE
⊥	SHELL AND TUBE HEAT EXCHANGER	F	FAHRENHEIT
⊥	PUMP SUCTION DIFFUSER W/ STRAINER	FPM	FEET/MINUTE
⊥	VACUUM BREAKER	FPT	FEMALE PIPE THREAD
⊥	UNION OR FLANGE CONNECTION	FT	FEET
⊥	FLEXIBLE PIPE CONNECTION	FTR	FIN TUBE RADIATION
⊥	PRESSURE RELIEF VALVE	FW	FRESH WATER
⊥	CONNECT TO EXISTING	GC	GENERAL CONTRACTOR
⊥	STARTER	GPM	GALLONS/MINUTE
⊥	THERMOSTATIC SENSOR	HP	HORSEPOWER
⊥	THERMOSTAT OR THERMOSTATIC SENSOR	HPS	HIGH PRESSURE STEAM
⊥	HUMIDISTAT	HR OR H	HOUR
⊥	MOTOR OPERATED DAMPER	HRV	SENSIBLE HEAT RECOVERY VENTILATOR
⊥	DUCT BALANCING DAMPER	HW	HOT WATER, DOMESTIC
⊥	FIRE DAMPER	HWHU	HOT WATER UNIT HEATER
⊥	SMOKE DAMPER	HWCUH	HOT WATER CABINET UNIT HEATER
⊥	COMBINATION SMOKE AND FIRE DAMPER	HWR	HOT WATER RETURN
⊥	ZONE DAMPER	HWS	HOT WATER SUPPLY
⊥	DIFFUSER AND GRILLE MARK	ID	INSIDE DIAMETER
⊥	DUCTWORK RETURN/ EXHAUST DROPS	IN	INCH
⊥	DUCTWORK SUPPLY DROPS	KW	KILOWATTS
⊥	DUCTWORK RETURN/ EXHAUST RISE	LAT	LEAVING AIR TEMPERATURE
⊥	DUCTWORK SUPPLY RISE	LB/#	POUND(S)
⊥	RETURN/ EXHAUST ARROW	LPS	LOW PRESSURE STEAM
⊥	SUPPLY ARROW	LVG	LEAVING
⊥		LWT	LEAVING WATER TEMPERATURE
⊥		M	MINUTE
⊥		MAX	MAXIMUM
⊥		MBTU/H	THOUSANDS OF BTU/H
⊥		MC	MECHANICAL CONTRACTOR
⊥		MCA	MINIMUM CIRCUIT AMPACITY
⊥		MIN	MINIMUM
⊥		MOCP	MAXIMUM OVERCURRENT PROTECTION
⊥		MOD	MOTOR OPERATED DAMPER
⊥		MPS	MEDIUM PRESSURE STEAM
⊥		MPT	MALE PIPE THREAD
⊥		NA	NOT APPLICABLE
⊥		NAV	NOT AVAILABLE
⊥		NEZ	NON-ELECTRIC ZONE VALVE
⊥		NC	NORMALLY CLOSED
⊥		NO	NORMALLY OPENED
⊥		OD	OUTSIDE DIMENSION
⊥		PC	PERSONAL COMPUTER
⊥		PD	PRESSURE DROP
⊥		PG	PROPYLENE GLYCOL
⊥		PSI	POUNDS PER SQUARE INCH
⊥		PH	PHASE
⊥		R	RETURN
⊥		RTU	PACKAGED ROOF TOP UNIT
⊥		SF	SQUARE FEET
⊥		SQ IN	SQUARE INCHES
⊥		S	SUPPLY
⊥		SWT	SWEAT
⊥		TEMP	TEMPERATURE
⊥		VOLT	VOLTAGE
⊥		W	WATTS
⊥		WB	WET BULB
⊥		WC	WATER COLUMN
⊥		W/	WITH

**DESIGN DAY MECHANICALS INC**

THE PROJECT MANAGER FOR THIS PROJECT IS NOTED BELOW. PLEASE REFER ALL QUESTIONS, SUBMITTALS AND CORRESPONDENCE TO THE PROJECT MANAGER.

JOHN L. WAIT PH (603) 289-7253  
 EMAIL: J.L.WAIT@DMS.NET FAX (603) 289-7253  
 148 BEAVER RIDGE RD., CENTER BARNSTEAD, NH 03225

**TOWN OF EXETER SAFETY BUILDING BOILER REPLACEMENT**

EXETER, NH

**TOWN OF EXETER**

EXETER, NH

**EXISTING AND NEW BOILER PIPING SCHEMATIC PLANS**

REVISIONS:

DESIGNED BY: J.L.W.  
 DRAWN BY: J.L.W.  
 CHECKED BY: A.W.A.  
 DDM JOB #: 15072  
 SCALE: NTS

DATE: 06/18/15

BID DRAWING SET  
 06/18/2015

M-1