MILLIS TOWN HALL BOILER RENOVATION

ASSUMPTIONS:

- 1. Vent will be separate 4" Sch. 40 CPVC, one per boiler, andcan extend to roof within existing metal flue
- 2. Combustion air can be ducted from an exterior wall within 15 feet of the boilers
- 3. Estimate is based on 2 Vitodens 500 MBH (input) high-efficiency boilers
- 4. Controls are supplied by the boiler manufacturer, including outdoor air temperature reset, boiler staging, and firing rate modulation
- 5. Boiler plant will be all new, including pumps, in-room piping, vents, and valves. Tie-in will be to existing-to-remain piping for distribution within the building

ITEM	UNITS		UNIT PRICE		EXTENDED PRICE
MATERIAL & EQUIPMENT					
Boilers, Viessman Vitodens, 500 MBH input, inclusive of	2	۲	16 500	Ļ	22,000
controls	2	\$	16,500	\$	33,000
CPVC Vents and Combustion Air piping	140	\$	30	\$	4,200
Steel Pipe, Valves, Fittings	100	\$	30	\$	3,000
Centrifugal pumps	2	\$	2,400	\$	4,800
LABOR					
Demolish old boilers, pumps and piping	20	\$	300	\$	6,000
Rig, install and pipe new boilers	30	\$	300	\$	9,000
Install Vents and Combustion Air ducts	12	\$	300	\$	3,600
Electrical Installation	16	\$	350	\$	5,600
Controls	8	\$	350	\$	2,800
Commissioning	16	\$	200	\$	3,200
Contingency & Estimating Allowance	20%			\$	15,040
Total Construction Cost				\$	90,240
OTHER COSTS					
Engineering Plans, Specifications, and Affidavits for Building					
Permit Application, Bidding, and Construction	1	\$	14,000	\$	12,000
TOTAL COST				\$	102,240