

CONTRACT # N40085-10-B-0412
PROJECT # 10M010CN
MACC # 10-0412
MAXIMO# 4256334

TITLE: Replace the HVAC system in the building VL336.

ATTACHMENTS:

1. Site map.
2. Maximo Equipment Update Form.

SCOPE OF WORK: The contractor shall provide all material, labor, equipment and supervision required to accomplish the following:

General description :

Remove and dispose of 7 existing DX Condensing Unit, Evaporator coils, connecting line sets, and Gas furnaces. Provide and install 7 DX Condensing Units, Evaporator coils, connecting line sets, and Gas furnaces to the following specifications and installation requirements:

Detailed requirements and specifications – The contractor shall complete the following work for this project using the following information.

HVAC WORK:

DX Unit Specifications:

- Air cooled, DX Condensing Unit 4 ton capacity, 208/230volt, single phase.
- Evaporator coils and matching TXV valves.
- Sight glass, and filter driers for each installed unit.
- New units shall have a SEER rating of 16 or higher.
- Line sets sized to the manufacturers specifications.
- Refrigerant 410A or 407C units only.
- First year compressor labor warranty.
- Five year compressor warranty (parts).

Furnace Unit Specifications:

- 93% AFUE Horizontal flow gas furnace, high efficiency.
- Btuh input rate of 92,000 and Btuh output rate of 86,000.
- Furnace shall be converted for LP gas operation.
- Furnace must connect to the existing 2" schedule 40 PVC flue pipe.
- Designed and constructed in accordance with UL 1995 standard.
- Removable side panels allow access to virtually all components.

Installation and Bid Requirements

The contractor shall provide all material, labor, equipment and supervision required to accomplish the following:

- Demo and dispose of 7 existing DX condensing Units, evaporator coils, and gas furnaces.
- The existing units are suspended approximately 10 feet above the floor.
- Demo copper piping, replace with unit specifications sized copper pipe line set.
- Demo 7 existing thermostats.
- Fabricate and install new supply and return plenums if necessary to connect new furnaces.
- Leave existing Round supply and fresh air ducts and reconnect after installation.
- Provide and install 7 air cooled DX Condensing Units; 4 ton capacity.
- Provide and install matching 4 ton evaporators and TXV valves.
- Provide and install 7 programmable digital thermostats.
- Install 1" elastomeric thermal insulation or equivalent insulation on all suction line piping.
- Disconnect supply and return plenums to remove existing furnaces and reconnect after new furnaces are installed.
- Lockout disconnect for the units and remove control and line voltage wiring from the units to be demo'ed; reuse the existing wiring to connect new condensing units.
- Lockout disconnect for the furnaces indoor and remove control and line voltage wiring from the units to be demo'ed; reuse the existing wiring to connect new furnaces.
- Valve off gas line at units and disconnect; use existing pipe to reconnect gas line to new gas furnaces to complete installation.
- Disconnect 2" schedule 40 vent pipe were applicable to remove furnace, reuse as much of the vent pipe as possible.
- Disconnect condensate drain pipe at units and reconnect new drains to the existing 2" common condensate drain line at installation completion.
- Provide and install 7 high efficiency furnaces complete.
- Seal existing duct and new supply and return plenums per the IMC and SMACNA standards.

Specifications:

- Provide installation, start up, and maintenance manuals for new equipment.
- Provide all label information (model and serial numbers) for removed and new equipment to Construction Manager upon work completion. Use the attached Maximo equipment update form for this data.
- Contractor shall follow all NC Mechanical Codes and Base Regulations for all work done during this project.
- Contractor shall pump down and recover Freon from existing units, disconnect and lock out electrical connections.
- All EPA regulations (section 608) concerning ozone depleting refrigerants shall be followed in the performance of this contract.

GENERAL REQUIREMENTS:

All demolished equipment becomes the property of the contractor, and shall be disposed of within EPA and Base regulations.

SPECIAL SCHEDULING AND ACCESS:

The point of contact for entry on this jobsite is Ssgt. Miller; phone # 910-449-0336. This facility is only open on Monday, Wednesday, and Friday.