



January 19, 2017

HVAC Recommendations Delray Beach Fire Station #4

Required Work:

- 1) Provide a new dedicated AC System to serve the Bunk Rooms designated as AC-3, which would be separated from all other building AC systems.
o Add new DX split system, approximately 1.5 tons (600 CFM) with reheat / dehumidification capability.
o Required Outside Air ventilation for this system would be volume controlled within the mechanical room.
o Frost sensor provided on cooling coil to prevent coil freeze-up and for condenser fan head pressure control.
o All new ductwork to be installed for this system (Existing ductwork serving the Bunk Room area will all be demolished).
2) Replace existing 7.5-T system with a new 5-T split system designated as AC-2.
o Ductwork for new 5-T system would be modified and reconfigured, with some duct being replaced with new and some duct being reused.
o Required Outside Air ventilation for this system would be volume controlled within the mechanical room.
o Both 5-T and 1.5-T new split systems would fit and be located in the same space as the existing 7.5-T system.
3) Provide a 1.0 - 1.5 Ton ductless mini-split system, dedicated to serving the second floor storage room.
o OA ventilation for this space would be provided by AC-2 (New 5-T system)
4) Remove and replace existing air ducts serving the dorm space and reconfigure supply ducts to other adjacent spaces as needed.
5) Seal new and existing openings between mechanical closet and attic space.

Alternate Work: (Highly Recommended)

- > Replace existing 10 ton air handling unit and condensing unit with new 10-T split system (AC-1)
o Ductwork for new 10 ton system will not require replacement.
o Required Outside Air ventilation for this system would be volume controlled within the mechanical room.

Budget Pricing:

Required work.....\$ 170,000.00

Alternate work.....\$ 35,000.00