

BASIS OF DESIGN - TREATMENT CLINIC WITHIN AN EXISTING HOSPITAL BUILDING PROJECT

Date: July 2014 Project Name: Walk-In Treatment Clinic Building Renovation Project #: 2014-06 Prepared By: Reader Revision date: _____

BUILDING

New Construction Renovation Addition square feet: _____ _____ No. of floors below grade: _____ No. of floors at and above grade: _____

UTILITIES

Electrical: New Upgrade Existing **Gas:** New Upgrade Existing **Steam:** New Upgrade Existing **Chilled Water:** New Upgrade Existing

Hot Water: New Upgrade Existing

Services from Utility for: Electric Gas District energy steam Existing

Campus Power Plant: Electric Gas Steam CHWS CWS Hot Water None

UTILITY DESIGN PARAMETERS

Electrical: 120/1/60 208/3/60 277/3/60 480/3/60 ___/3/60

Emergency Power: New Diesel oil Gas Existing None **Gas:** Design parameters by plumbing engineer

Steam Pressure: Low @ ___psig Medium @ ___psig High @ ___psig High @ ___psig

Chilled Water Temperature: CHWS @ 45°F CHWR @ 57°F None

Condenser Water Temperature: CWS @ 85°F CWR @ 95°F None

Hot Water Temperature: HWS @ 160°F & HWR @ 120°F when 23°F OAT and HWS @ 90°F & HWR 70°F when OAT is 60°F Fixed HWS @ 180°F & HWR @120°F None

ASHRAE APPLICATION HANDBOOK

ASHRAE 2011 Handbook: Chapter { } { } Other chapter **ASHRAE 2012 Handbook:** Chapter { } { } { }

OWNER MECHANICAL DESIGN PARAMETERS

Equipment Location: On floor being served In central equipment room(s) _____ In penthouse On-Roof Away from building Above ceilings

Maintenance Outside Occupied Space: Yes serving primary HVAC equipment No

Redundancy: For Boiler N+1 N+N No

Equipment/System Expansion: Increase equipment size by 15% No

Indoor Air Quality at: MERV rating of { } and { } for pre-filters MERV rating of { } for final filters

Acoustic & Vibration Criteria: Design parameters by acoustic consultant None

Specialty Room(s): (List Room) None

Occupancy Schedule: 24-7-365 Occupied/Unoccupied with manual over-ride (List Hours of Occupancy)

DESIGN CRITERIA

Outdoor Dry Bulb & Wet Bulb: ___°F Heating season ___°F/___°F Cooling season

Public/Common Area, Classrooms, Multi-purpose room, Cafeteria, Administration Space: Occupied period Unoccupied period Warm-up & cool down
Set Points: ___°F Heating Season & ___°F Cooling season 60%RH Space pressure: {+} {-} {=}

Mechanical & Electrical Space and Back of the House Area: Occupied 24-7 period Unoccupied period Warm-up & cool down Not applicable
Set Points: ___°F Heating season and ___°F Cooling season <65%RH cooling season Not applicable

ENERGY & ENVIRONMENT CRITERIA

LEED Certification: Yes No Other certification (List the Program)

Infection Control: In-house IC manager 3rd party IC commissioning consultant Not applicable

Annual Operating Budget: With energy budget With organization structure Outsource operation & maintenance Building only Not applicable

Refer To The Facility Files For Additional Operation & Maintenance Design Criteria

SPECIAL CONDITIONS & REQUIREMENTS

1. **Standard 170 -Ventilation of Health Care Facilities**

2.

3.

To view the solution online, please visit www.esmagazine.com.