

## BASIS OF DESIGN — MISSION CRITICAL TENANT FIT-OUT PROJECT

Date: April 2014 Project Name: Craftsbury VT Mission Critical Tenant Fit-Out Project #: 2014-01 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 @ 42°F  CHWR @ 56°F  None

**Condenser Water Temperature:**  CWS @ \_\_\_F  CWR @ \_\_\_F  None

**Hot Water Temperature:**  HWS @ 160°F & HWR @ 120°F when 24°F OAT and HWS @ 90°F & HWR 70°F when OAT is 60°F  Fixed HWS @ \_\_\_F & HWR @ \_\_\_F  None

### ASHRAE APPLICATION HANDBOOK

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

### OWNER MECHANICAL DESIGN PARAMETERS

**Equipment Location:**  On floor being served  In Central equipment room(s)  \_\_\_\_\_  In penthouse  Away from building  \_\_\_\_\_

**Maintenance Outside Occupied Space:**  Yes serving primary HVAC equipment  No

**Redundancy:**  For (List Equipment)  N+?  No

**Equipment/System Expansion:**  Increase equipment size by \_\_\_%  No

**Indoor Air Quality at:**  MERV rating of { } 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 (List Hours of Occupancy)

### DESIGN CRITERIA

**Outdoor Dry Bulb & Wet Bulb:** \_\_\_ F Heating season \_\_\_F/\_\_\_ F Cooling season

**Public/Common Area, Residential Rooms, Cafeteria, and Administration Space:**  Occupied period  Unoccupied period  Warm-up & cool down  
**Set Points:** \_\_\_F Heating Season & \_\_\_F Cooling season \_\_\_%RH Space pressure: {+} {-} {=}

**Mechanical & Electrical Space and Back of the House Area:**  Occupied period  Unoccupied period  Warm-up & cool down  
**Set Points:** \_\_\_F Heating season and \_\_\_F Cooling season \_\_\_%RH Space pressure: {+} {-} {=}

### ENERGY & ENVIRONMENT CRITERIA

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

**Annual Operating Budget:**  Energy budget  Organization structure  Outsource

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

### SPECIAL CONDITIONS & REQUIREMENTS